

Exhibit C
Schedule of Values
Construction Manager at Risk for Pima County RWRD
22nd St Sewer Augmentation Project

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>GMP VALUE</i>
2.00	Removals	2,531	TON	\$29.00	\$73,399.00
2.10	8" Sewer Removal	1,933	LF	\$14.29	\$27,622.57
3.00	Aggregate Base - 5" Thickness	930	TON	\$36.49	\$33,935.70
4.00	Trench Patching	3,647	SY	\$63.13	\$230,235.11
4.05	Trench Mill / Plate	5,330	LF	\$12.26	\$65,345.80
5.00	30" Jack & Bore	60	LF	\$963.33	\$57,799.80
5.15	12" DIP Sanitary Sewer	265	LF	\$199.00	\$55,720.00
5.20	12" PVC Sanitary Sewer	5,227	LF	\$54.50	\$281,438.00
5.25	House Connection Sewers	17	EA	\$2,150.30	\$36,555.10
5.30	Sewer Line Testing	5,492	LF	\$1.85	\$10,071.40
5.40	New 60" Diameter Sanitary Sewer Manhole	14	EA	\$5,445.51	\$76,237.14
5.45	Existing Manhole Connections	2	EA	\$1,823.50	\$3,647.00
5.50	Sanitary Sewer Manhole Testing	14	EA	\$225.00	\$3,150.00
5.60	Bypass Pumping	3	DYS	\$8,538.50	\$25,615.50
5.70	Existing Sewer Repairs Between Belvedere / Alvernon	5	EA	\$7,589.70	\$37,948.50
6.10	Concrete Curb	460	LF	\$23.34	\$10,736.40
6.20	Concrete Sidewalk	600	SF	\$12.66	\$7,596.00
7.00	Traffic Control	98	DYS	\$1,000.00	\$98,000.00
7.10	Uniformed Officers	450	HRS	\$55.00	\$24,750.00
7.20	Striping	1	LS	\$5,500.00	\$5,500.00
7.30	Signal Loop Replacement	6	EA	\$1,000.00	\$6,000.00
8.00	Survey / As-Built	1	LS	\$13,650.00	\$13,650.00
8.10	QC Testing	1	LS	\$16,000.00	\$16,000.00
8.20	Public Relations	4	MOS	\$7,750.00	\$31,000.00
	CONSTRUCTION TOTAL	1	LS		\$1,231,953.02

22nd St Sewer Augmentation Project

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	GMP VALUE
	Construction Contingency			5.00%	\$61,597.65
11.00	General Conditions	18	WKS	\$9,094.55	\$163,701.85
	PROJECT MANAGER	9	WK	\$2,840.00	\$25,560.00
	FIELD ENGINEER	18	WK	\$1,960.00	\$35,280.00
	SUPERINTENDENT	18	WK	\$2,560.00	\$46,080.00
	DRINKING WATER / ICE	18	WK	\$25.00	\$450.00
	SMALL TOOLS	18	WK	\$400.00	\$7,200.00
	SANITATION / RESTROOMS	18	WK	\$85.00	\$1,530.00
	CONSTRUCTION WATER	600	MGAL	\$7.00	\$4,200.00
	LAND RENTAL	4	MOS	\$2,000.00	\$8,000.00
	TEMPORARY FENCING	4	MOS	\$1,450.00	\$5,800.00
	PRINTING / OFFICE SUPPLIES	4	MOS	\$150.00	\$600.00
	DUMPSTERS / REFUSE HAULING	18	WK	\$350.00	\$6,300.00
	SWPPP	1	LS	\$16,112.55	\$16,112.55
	PERMITS	1	LS	\$2,050.00	\$2,050.00
	MOBILIZATION	1	LS	\$4,539.30	\$4,539.30
12.00	CMAR Overhead			9.00%	\$131,152.73
13.00	CMAR Fee			6.00%	\$87,435.15
	Construction + Fee Total				\$1,675,840.40
14.00	Payment & Performance Bonds @ 0.91%	1	LS	\$15,250.15	\$15,250.15
	GMP + FEE + BOND SUBTOTAL				\$1,691,090.55
15.00	General Liability Insurance @ 1.00%	1	LS	\$16,910.91	\$16,910.91
	SUBTOTAL				\$1,708,001.46
16.00	City of Tucson Sales Tax @ 5.265%	1	LS	\$89,926.28	\$89,926.28
	TOTAL CONSTRUCTION				\$1,797,927.74

22nd St Sewer Augmentation Project

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	GMP VALUE
Tucson Water 6" & 36" Relocation					
2020041	REMOVAL OF PIPE	222	LF	\$10.69	\$2,373.18
4060114	UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200	SY	\$127.74	\$25,548.00
5100001	6" JACK & BORE	100	LF	\$616.69	\$61,669.00
5101106	PIPE, DIP, 6"	100	LF	\$79.47	\$7,947.00
5101124	PIPE, DIP, 24"	26	LF	\$440.35	\$11,449.10
5101136	PIPE, DIP, 36"	196	LF	\$636.32	\$124,718.72
5102406	GATE VALVE, BOX AND COVER, 6"	1	EACH	\$5,281.82	\$5,281.82
5102424	GATE VALVE, BOX AND COVER, 24"	1	EACH	\$20,337.78	\$20,337.78
5102436	GATE VALVE, BOX AND COVER, 36"	2	EACH	\$48,648.80	\$97,297.60
5102604	COMBINATION AIR RELEASE VALVE, 1"	1	EACH	\$4,113.78	\$4,113.78
5102606	COMBINATION AIR RELEASE VALVE, 2"	1	EACH	\$4,113.78	\$4,113.78
5106006	CONNECTIONS, 6"	1	EACH	\$2,501.83	\$2,501.83
5106024	CONNECTIONS, 24"	1	EACH	\$16,657.59	\$16,657.59
5106030	CONNECTIONS, 30"	1	EACH	\$18,004.95	\$18,004.95
5106036	CONNECTIONS, 36"	1	EACH	\$22,275.08	\$22,275.08
5107004	FINAL CORROSION REPORT	1	LS	\$3,000.00	\$3,000.00
5107120	CORROSION TEST STATION (CTS), NEW, BELOW GROUND	3	EACH	\$1,475.00	\$4,425.00
5107624	FLANGE INSULATING KIT, (FIK), 24"	1	EACH	\$2,320.66	\$2,320.66
5107630	FLANGE INSULATING KIT, (FIK), 30"	1	EACH	\$2,572.21	\$2,572.21
5107636	FLANGE INSULATING KIT (FIK), 36"	1	EACH	\$2,803.87	\$2,803.87
7010001	MAINTENANCE AND PROTECTION OF TRAFFIC	1	LS	\$44,879.98	\$44,879.98
7310010	POLE (TYPE A)(10')	2	EACH	\$786.00	\$1,572.00
7310200	POLE FOUNDATION (TYPE A)	2	EACH	\$393.00	\$786.00
7350100	LOOP DETECTOR	4	EACH	\$1,540.00	\$6,160.00
9080005	CONCRETE VERTICAL CURB (PC/COT STD. DTL. 209)(TYP	100	LF	\$22.90	\$2,290.00
	CONSTRUCTION TOTAL	1	LS		\$495,098.93

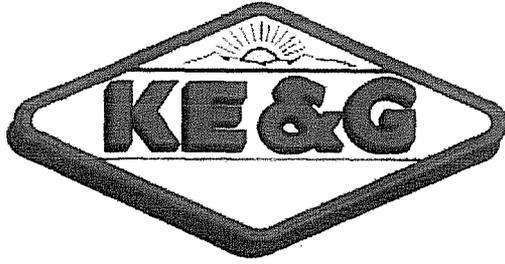
22nd St Sewer Augmentation Project

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	GMP VALUE
	Construction Contingency			5.00%	\$24,754.95
11.00	General Conditions	6	WKS	\$7,329.33	\$43,976.00
	PROJECT MANAGER	2	WK	\$2,840.00	\$5,680.00
	FIELD ENGINEER	4	WK	\$1,960.00	\$7,840.00
	SUPERINTENDENT	6	WK	\$2,560.00	\$15,360.00
	DRINKING WATER / ICE	6	WK	\$25.00	\$150.00
	SMALL TOOLS	6	WK	\$400.00	\$2,400.00
	SANITATION / RESTROOMS	6	WK	\$85.00	\$510.00
	CONSTRUCTION WATER	200	MGAL	\$7.00	\$1,400.00
	LAND RENTAL	2	MOS	\$2,000.00	\$4,000.00
	TEMPORARY FENCING	2	MOS	\$1,450.00	\$2,900.00
	PRINTING / OFFICE SUPPLIES	2	MOS	\$150.00	\$300.00
	DUMPSTERS / REFUSE HAULING	6	WK	\$350.00	\$2,100.00
	MOBILIZATION	1	LS	\$1,336.00	\$1,336.00
12.00	CMAR Overhead			9.00%	\$50,744.69
13.00	CMAR Fee			6.00%	\$33,829.79
	Construction + Fee Total				\$648,404.36
14.00	Payment & Performance Bonds @ 0.91%	1	LS	\$5,900.48	\$5,900.48
	GMP + FEE + BOND SUBTOTAL				\$654,304.84
15.00	General Liability Insurance @ 1.00%	1	LS	\$6,543.05	\$6,543.05
	SUBTOTAL				\$660,847.89
16.00	City of Tucson Sales Tax @ 5.265%	1	LS	\$34,793.64	\$34,793.64
	WATER RELOCATION TOTAL CONSTRUCTION				\$695,641.53

22nd St Sewer Augmentation Project

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	GMP VALUE
City Of Tucson Department of Transportation Mill & Overlay					
400	MILL & OVERLAY NORTH HALF OF 22ND/ALVERNON	1,549	SY	\$19.24	\$29,802.76
401	MILL & OVERLAY ALVERNON TO BRYANT	10,020	SY	\$13.53	\$135,570.60
402	MILL & OVERLAY BRYANT TO SWAN	4,009	SY	\$18.81	\$75,409.29
403	TYPE 1 TRENCH PATCH AT SWAN	153	SY	\$111.77	\$17,100.81
	CONSTRUCTION TOTAL	1	LS		\$257,883.46
	Construction Contingency			5.00%	\$12,894.17
11.00	General Conditions	2	WKS	\$6,853.00	\$13,706.00
	PROJECT MANAGER	0.5	WK	\$2,840.00	\$1,420.00
	FIELD ENGINEER	1	WK	\$1,960.00	\$1,960.00
	SUPERINTENDENT	2	WK	\$2,560.00	\$5,120.00
	DRINKING WATER / ICE	2	WK	\$25.00	\$50.00
	SMALL TOOLS	2	WK	\$400.00	\$800.00
	SANITATION / RESTROOMS	2	WK	\$85.00	\$170.00
	CONSTRUCTION WATER	50	MGAL	\$7.00	\$350.00
	LAND RENTAL	0.5	MOS	\$2,000.00	\$1,000.00
	TEMPORARY FENCING	0.5	MOS	\$1,450.00	\$725.00
	PRINTING / OFFICE SUPPLIES	0.5	MOS	\$150.00	\$75.00
	DUMPSTERS / REFUSE HAULING	2	WK	\$350.00	\$700.00
	MOBILIZATION	1	LS	\$1,336.00	\$1,336.00
12.00	CMAR Overhead			9.00%	\$25,603.53
13.00	CMAR Fee			6.00%	\$17,069.02
	Construction + Fee Total				\$327,156.18
14.00	Payment & Performance Bonds @ 0.91%	1	LS	\$2,977.12	\$2,977.12
	GMP + FEE + BOND SUBTOTAL				\$330,133.30
15.00	General Liability Insurance @ 1.00%	1	LS	\$3,301.33	\$3,301.33
	SUBTOTAL				\$333,434.63
16.00	City of Tucson Sales Tax @ 5.265%	1	LS	\$17,555.33	\$17,555.33
	COT DOT MILL & OVERLAY TOTAL CONSTRUCTION				\$350,989.96

COMBINED SEWER, WATER, & OVERLAY CONTRACT	1	LS	\$2,844,559.23	\$2,844,559.23
Owner's Contingency	5	%	\$142,227.96	\$142,227.96
Total Contract	1	LS		\$2,986,787.19



5100 S. ALVERNON WAY
 TUCSON, ARIZONA 85706
 (520) 748-0188
 FAX (520) 748-8975

1601 PASEO SAN LUIS, SUITE 202
 SIERRA VISTA, ARIZONA 85635
 (520) 458-9594
 FAX (520) 458-2362

Cost Detail With Categories Without Labor and Equipment

Project Name: PCRWRD 22ND ST SEWER AUGMENTATION 07.22.15	Customer: PCRWRD
Job Number:	Billing Address: 1313 S. Mission Road
Bid As:	Tucson, AZ 85713
Estimator:	Phone:
Project Address:	Contact:
Completion Date:	

Pay Items

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost																					
2.00 - Removals	1.00	LS	\$73,567.15	\$73,567.15																					
<table border="0"> <tr> <td><u>Labor</u></td> <td><u>Equipment</u></td> <td><u>Material</u></td> <td><u>Subcontracted</u></td> <td><u>Trucking</u></td> <td><u>Miscellaneous</u></td> <td><u>Plug</u></td> </tr> <tr> <td>Unit: \$12,307.95</td> <td>\$15,878.00</td> <td>\$6,250.00</td> <td>\$18,883.20</td> <td>\$20,248.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>Total: \$12,307.95</td> <td>\$15,878.00</td> <td>\$6,250.00</td> <td>\$18,883.20</td> <td>\$20,248.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> </table>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	Unit: \$12,307.95	\$15,878.00	\$6,250.00	\$18,883.20	\$20,248.00	\$0.00	\$0.00	Total: \$12,307.95	\$15,878.00	\$6,250.00	\$18,883.20	\$20,248.00	\$0.00	\$0.00				
<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>																			
Unit: \$12,307.95	\$15,878.00	\$6,250.00	\$18,883.20	\$20,248.00	\$0.00	\$0.00																			
Total: \$12,307.95	\$15,878.00	\$6,250.00	\$18,883.20	\$20,248.00	\$0.00	\$0.00																			
2.10 - 8" Sewer Removal	1,933.00	LF	\$14.29	\$27,620.40																					
<table border="0"> <tr> <td><u>Labor</u></td> <td><u>Equipment</u></td> <td><u>Material</u></td> <td><u>Subcontracted</u></td> <td><u>Trucking</u></td> <td><u>Miscellaneous</u></td> <td><u>Plug</u></td> </tr> <tr> <td>Unit: \$5.55</td> <td>\$8.74</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>Total: \$10,724.40</td> <td>\$16,896.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> </table>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	Unit: \$5.55	\$8.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Total: \$10,724.40	\$16,896.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>																			
Unit: \$5.55	\$8.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00																			
Total: \$10,724.40	\$16,896.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00																			
2.50 - SWPPP	1.00	LS	\$16,112.55	\$16,112.55																					
<table border="0"> <tr> <td><u>Labor</u></td> <td><u>Equipment</u></td> <td><u>Material</u></td> <td><u>Subcontracted</u></td> <td><u>Trucking</u></td> <td><u>Miscellaneous</u></td> <td><u>Plug</u></td> </tr> <tr> <td>Unit: \$2,582.55</td> <td>\$920.00</td> <td>\$1,310.00</td> <td>\$11,200.00</td> <td>\$100.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>Total: \$2,582.55</td> <td>\$920.00</td> <td>\$1,310.00</td> <td>\$11,200.00</td> <td>\$100.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> </table>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	Unit: \$2,582.55	\$920.00	\$1,310.00	\$11,200.00	\$100.00	\$0.00	\$0.00	Total: \$2,582.55	\$920.00	\$1,310.00	\$11,200.00	\$100.00	\$0.00	\$0.00				
<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>																			
Unit: \$2,582.55	\$920.00	\$1,310.00	\$11,200.00	\$100.00	\$0.00	\$0.00																			
Total: \$2,582.55	\$920.00	\$1,310.00	\$11,200.00	\$100.00	\$0.00	\$0.00																			
<ul style="list-style-type: none"> 2.00 Remove / Haul Off Asphalt / AC 2,531.00 TON \$21.61 \$54,683.95 2.00 Excavate Sewer (389.38 TON/DY, 6.50 DY) 2,531.00 TON \$8.57 \$21,702.20 BJ - 7/6/2015 11:04 AM: Figure 1 hour per day removing / stockpiling on storage lot. 2.00 Load Trucks - 950 Loader* (60.26 TON/PH, 5.25 DY) 2,531.00 TON \$2.56 \$6,483.75 2.00 Trucking (1.00 DY, 31.64 Trucks, 316.38 TON/HR) 2,531.00 TON \$8.00 \$20,248.00 2.00 Dump Fees 125.00 LOAD \$50.00 \$6,250.00 2.00 Asphalt Sawcutting 12,034.00 LF \$1.57 \$18,883.20 																									
<ul style="list-style-type: none"> 2.10 Line Replacement 1,933.00 LF \$14.29 \$27,620.40 2.10 Install Sewer Pipe 1,933.00 LF \$14.29 \$27,620.40 2.10 Excavate Sewer (322.17 LF/DY, 6.00 DY) 1,933.00 LF \$14.29 \$27,620.40 																									
<ul style="list-style-type: none"> 2.50 Sweeping 112.00 HR \$100.00 \$11,200.00 2.50 Catch Basin Protection 4.00 EACH \$138.90 \$555.60 2.50 Sediment Logs* 88.00 LF \$5.00 \$440.00 2.50 Straw Bale Install Crew* (1.00 MH/EACH, 0.25 DY) 4.00 EACH \$28.90 \$115.60 2.50 Stockpile Protection 24.00 EACH \$58.90 \$1,413.60 2.50 Sediment Wattle - 9" 960.00 LF \$0.75 \$720.00 2.50 Straw Bale Install Crew* (1.00 MH/EACH, 1.50 DY) 24.00 EACH \$28.90 \$693.60 2.50 Track Out Pad 1,000.00 SF \$0.65 \$653.35 																									

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost			
(Item 2.50 - SWPPP continued)							
Backhoe/ Operator (0.01 MH/SF, 0.50 DY)	1,000.00	SF	\$0.40	\$403.35			
Track Out Rock (Border Products)	20.00	TON	\$12.50	\$250.00			
SWPPP Plan / Inspections	1.00	LS	\$2,290.00	\$2,290.00			
PROJECT ENGINEER (0.20 WK/DY, 5.00 DY)	1.00	WK	\$2,290.00	\$2,290.00			
3.00 - Aggregate Base - 5" (KE&G Plug)	930.00	TON	\$36.49	\$33,935.70			
4.00 - Trench Patching	3,647.00	SY	\$63.13	\$230,229.95			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$0.87	\$1.67	\$5.92	\$53.90	\$0.77	\$0.00	\$0.00
Total:	\$3,175.20	\$6,080.00	\$21,600.00	\$196,573.30	\$2,801.45	\$0.00	\$0.00
BJ - 7/6/2015 11:05 AM: Borings Show 8-10" AC depth over 5 ABC. Figure 9" Average depth.							
Buy AC	360.00	TON	\$67.78	\$24,401.45			
Asphalt PAG 2 (Granite Construction)	360.00	TON	\$60.00	\$21,600.00			
Trucking	360.00	TON	\$7.78	\$2,801.45			
Trucking (2.00 DY, 2.19 Trucks, 24.08 TON/HR)	385.20	TON	\$7.27	\$2,801.45			
Pave Sidestreets	360.00	TON	\$25.71	\$9,255.20			
Asphalt Paving (22.50 TON/PH, 2.00 DY)	360.00	TON	\$25.71	\$9,255.20			
Patching (KE&G Plug)	3,647.00	SY	\$53.90	\$196,573.30			
4.05 - Mill / Plate Excavation	5,330.00	LF	\$12.26	\$65,337.20			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$2.21	\$2.92	\$7.13	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$11,761.20	\$15,576.00	\$38,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Trench Plate Milling	5,500.00	LF	\$4.97	\$27,337.20			
KE&G Milling - Small (500.00 LF/DY, 11.00 DY)	5,500.00	LF	\$4.97	\$27,337.20			
Buy Material	500.00	LF	\$76.00	\$38,000.00			
Shoring Rental	500.00	LF	\$54.25	\$27,125.00			
BJ - 7/6/2015 4:01 PM: Figure 65 EA 8'x10' For 3 months = \$27,109.00. rounded to nearest \$0.25							
Shoring Delivery	26.00	EACH	\$105.00	\$2,730.00			
BJ - 7/6/2015 4:06 PM: 5 Plates / Load							
Asphalt - Cold Mix* (Cal Portland Materials)	90.50	TON	\$90.00	\$8,145.00			
BJ - 7/6/2015 4:05 PM: 2" x 4" average for entire length of trench, both sides.							
5.00 - 30" Jack & Bore	60.00	LF	\$963.33	\$57,800.00			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$0.00	\$0.00	\$250.00	\$713.33	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$15,000.00	\$42,800.00	\$0.00	\$0.00	\$0.00
Jack & Bore Mobilization	1.00	LS	\$15,000.00	\$15,000.00			
Jack & Bore	60.00	LF	\$380.00	\$22,800.00			
Shoring Engineering	1.00	LS	\$5,000.00	\$5,000.00			
Shoring Modifications	1.00	LS	\$15,000.00	\$15,000.00			
5.15 - 12" DIP Sanitary Sewer	280.00	LF	\$198.46	\$55,567.40			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$22.34	\$35.20	\$91.33	\$44.78	\$4.80	\$0.00	\$0.00
Total:	\$6,255.90	\$9,856.00	\$25,572.00	\$12,539.50	\$1,344.00	\$0.00	\$0.00
Purchase Sand / Haul Spoil	112.00	TON	\$21.23	\$2,378.00			
Trucking (0.25 DY, 8.40 Trucks, 56.00 TON/HR)	112.00	TON	\$12.00	\$1,344.00			
Sewer Sand*	112.00	TON	\$7.00	\$784.00			
Dump Fees	5.00	LOAD	\$50.00	\$250.00			
Line Replacement	280.00	LF	\$145.18	\$40,649.90			

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost			
(Item 5.15 - 12" DIP Sanitary Sewer continued)							
① Purchase Materials	280.00	LF	\$87.64	\$24,538.00			
✂ 12" PVC / DIP Coupling	4.00	EACH	\$475.00	\$1,900.00			
✂ 12" DIP CL 350* - Bare DIP	294.00	LF	\$77.00	\$22,638.00			
① Install Sewer Pipe	280.00	LF	\$57.54	\$16,111.90			
⚒ Excavate Sewer (80.00 LF/DY, 3.50 DY)	280.00	LF	\$57.54	\$16,111.90			
⑤ CIPP	193.00	LF	\$46.50	\$8,974.50			
⑤ CIPP Mobilization	1.00	EACH	\$3,565.00	\$3,565.00			
④ 5.20 - 12" PVC Sanitary Sewer	5,164.00	LF	\$54.44	\$281,148.82			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$13.98	\$22.02	\$12.10	\$0.00	\$4.80	\$1.54	\$0.00
Total:	\$72,180.91	\$113,719.05	\$62,497.20	\$0.00	\$24,787.20	\$7,964.46	\$0.00
① Line Replacement	5,164.00	LF	\$44.04	\$227,407.96			
① Purchase Materials	5,164.00	LF	\$8.04	\$41,508.00			
✂ Pipe-Sewer-PVC-12" (Dana Kepner Company, Inc.)	5,164.00	LF	\$8.00	\$41,312.00			
✂ 12" Manhole Gasket	28.00	EACH	\$7.00	\$196.00			
① Install Sewer Pipe	5,164.00	LF	\$36.00	\$185,899.96			
⚒ Excavate Sewer (127.88 LF/DY, 40.38 DY)	5,164.00	LF	\$36.00	\$185,899.96			
① Purchase Sand / Haul Spoil	2,065.60	TON	\$21.47	\$44,346.40			
🚛 Trucking (0.25 DY, 154.92 Trucks, 1,032.80 TON/HR)	2,065.60	TON	\$12.00	\$24,787.20			
✂ Sewer Sand*	2,065.60	TON	\$7.00	\$14,459.20			
✂ Dump Fees	102.00	LOAD	\$50.00	\$5,100.00			
① Shoring	3.00	MO	\$2,654.82	\$7,964.46			
🏗 Shoring Delivery & Pickup*	20.00	EACH	\$105.00	\$2,100.00			
🏗 Shoring*	3.00	MO	\$1,954.82	\$5,864.46			
① Tucson Water 36" Crossing	20.00	LF	\$71.50	\$1,430.00			
✂ Concrete 1 Sack Slurry*	22.00	CY	\$65.00	\$1,430.00			
④ 5.25 - House Connections	17.00	EACH	\$2,048.81	\$34,829.80			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$1,316.58	\$381.33	\$290.90	\$0.00	\$60.00	\$0.00	\$0.00
Total:	\$22,381.92	\$6,482.67	\$4,945.22	\$0.00	\$1,020.00	\$0.00	\$0.00
① Tie Over HCS	17.00	EACH	\$2,048.81	\$34,829.80			
① Purchase Materials	17.00	EACH	\$252.95	\$4,300.22			
✂ 4" HCS W/all Accessories* (Dana Kepner Company, Inc.)	17.00	EACH	\$252.95	\$4,300.22			
① Install HCS Pipe - DIP	1,105.00	LF	\$26.12	\$28,864.59			
⚒ Excavate Sewer (88.64 LF/DY, 12.47 DY)	1,105.00	LF	\$26.12	\$28,864.59			
① Purchase Sand / Haul Spoil	85.00	TON	\$19.59	\$1,665.00			
🚛 Trucking (0.25 DY, 6.38 Trucks, 42.50 TON/HR)	85.00	TON	\$12.00	\$1,020.00			
✂ Sewer Sand*	85.00	TON	\$7.00	\$595.00			
✂ Dump Fees	1.00	LOAD	\$50.00	\$50.00			
④ 5.30 - Sewer Line Testing	5,444.00	LF	\$1.81	\$9,868.80			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$1.46	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$7,948.80	\$1,920.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
① Pressure Test / Mandrel 12" Sewer	5,444.00	LF	\$1.81	\$9,868.80			
⚒ PRESSURE TEST SS MAINLINE (1,088.80 LF/DY, 5.00 DY)	5,444.00	LF	\$1.13	\$6,168.00			
⚒ MANDREL SS (1,814.67 LF/DY, 3.00 DY)	5,444.00	LF	\$0.68	\$3,700.80			
④ 5.40 - New 60" Sanitary Sewer Manhole	14.00	EACH	\$5,539.00	\$77,545.93			

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost			
(Item 5.70 - Existing 10" Line Repairs continued)							
Unit:	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
	\$631.80	\$448.00	\$600.00	\$5,909.90	\$0.00	\$0.00	\$0.00
Total:	\$3,159.00	\$2,240.00	\$3,000.00	\$29,549.50	\$0.00	\$0.00	\$0.00
⑤ 1. 5547-01 To 5831-12 UV Repair	1.00	EACH	\$2,000.00	\$2,000.00			
ⓓ 2. 5831-12 To 5831-11 CIPP	422.00	LF	\$77.27	\$32,608.50			
ⓓ Bypass	1,165.00	LF	\$7.21	\$8,399.00			
ⓓ Install Pipe	1,165.00	LF	\$1.97	\$2,293.60			
🔧 BY-PASS CONNECT PIPE* (0.04 MH/LF, 1.50 DY)	1,165.00	LF	\$1.57	\$1,831.20			
🔧 BY-PASS FLUSH PIPES* (0.01 MH/LF, 1.00 DY)	1,165.00	LF	\$0.40	\$462.40			
ⓓ Set & Test Pumps / Bridges	4.00	EACH	\$692.65	\$2,770.60			
🔧 BY-PASS LOAD AND UNLOAD PIPE* (4.00 MH/EACH, 1.00 DY)	4.00	EACH	\$165.30	\$661.20			
🔧 BY-PASS HAUL PIPE* (2.00 MH/EACH, 1.00 DY)	4.00	EACH	\$208.00	\$832.00			
🔧 BY-PASS SMALL SET* (6.00 MH/EACH, 1.00 DY)	4.00	EACH	\$319.35	\$1,277.40			
ⓓ Operate Bypass	2.00	DY	\$167.40	\$334.80			
🔧 BY-PASS OPERATE* (12.00 PH/DY, 2.00 DY)	2.00	DY	\$167.40	\$334.80			
ⓓ Pump Rental	0.60	WK	\$5,000.00	\$3,000.00			
⑤ CCTV	844.00	LF	\$1.25	\$1,055.00			
⑤ Clean	422.00	LF	\$2.00	\$844.00			
⑤ CIPP Mobilization	1.00	EACH	\$3,565.00	\$3,565.00			
⑤ 8" CIPP	422.00	LF	\$37.75	\$15,930.50			
⑤ Reinstate Services	2.00	EACH	\$100.00	\$200.00			
⑤ Traffic Control	1.00	LS	\$2,250.00	\$2,250.00			
⑤ Chain Flail	1.00	HR	\$365.00	\$365.00			
⑤ 3. 5831-11 To 5831-10 UV Repair	1.00	EACH	\$2,000.00	\$2,000.00			
⑤ 4. 5831-07 To 5831-06 Trip Protruding Service	1.00	HR	\$365.00	\$365.00			
⑤ 5. 5831-06 To 5831-05 Tophat Service	1.00	EACH	\$975.00	\$975.00			
ⓓ 6.10 - Remove / Replace Concrete Curb	460.00	LF	\$23.34	\$10,736.40			
Unit:	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
	\$0.00	\$0.00	\$0.00	\$23.34	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$0.00	\$10,736.40	\$0.00	\$0.00	\$0.00
↻ Concrete Patching (KE&G Plug)	460.00	LF	\$23.34	\$10,736.40			
ⓓ 6.20 - Remove / Replace Concrete Sidewalk	600.00	SF	\$12.66	\$7,595.60			
Unit:	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
	\$1.66	\$0.93	\$0.00	\$10.07	\$0.00	\$0.00	\$0.00
Total:	\$993.60	\$560.00	\$0.00	\$6,042.00	\$0.00	\$0.00	\$0.00
↻ Concrete Patching (KE&G Plug)	600.00	SF	\$10.07	\$6,042.00			
ⓓ Finegrade Concrete	600.00	SF	\$2.59	\$1,553.60			
🔧 FINE GRADE SLOPES (300.00 SF/DY, 2.00 DY)	600.00	SF	\$2.59	\$1,553.60			
ⓓ 7.00 - Traffic Control	98.00	DY	\$1,000.00	\$98,000.00			
Unit:	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$0.00	\$98,000.00	\$0.00	\$0.00	\$0.00
⑤ Traffic Control	98.00	DY	\$1,000.00	\$98,000.00			
ⓓ 7.10 - Uniformed Officers	450.00	HR	\$55.00	\$24,750.00			
Unit:	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
	\$0.00	\$0.00	\$0.00	\$55.00	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$0.00	\$24,750.00	\$0.00	\$0.00	\$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost			
<i>(Item 7.10 - Uniformed Officers continued)</i>							
③ Professional Police Services	450.00	HR	\$55.00	\$24,750.00			
§ 7.20 - Striping	1.00	LS	\$5,500.00	\$5,500.00			
§ 7.30 - Signal Loop Replacement	6.00	EACH	\$1,000.00	\$6,000.00			
D 8.00 - Survey / As-Builts	1.00	LS	\$13,650.00	\$13,650.00			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$0.00	\$0.00	\$0.00	\$13,650.00	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$0.00	\$13,650.00	\$0.00	\$0.00	\$0.00
③ Construction Surveying/Layout - As-Built	1.00	LS	\$13,650.00	\$13,650.00			
D 8.10 - QC Testing	1.00	LS	\$16,000.00	\$16,000.00			
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
Total:	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
③ Compaction Testing / Concrete Inspection	1.00	LS	\$16,000.00	\$16,000.00			
§ 8.20 - Public Relations	4.00	MO	\$7,750.00	\$31,000.00			



5100 S. ALVERNON WAY
 TUCSON, ARIZONA 85706
 (520) 748-0188
 FAX (520) 748-8975

1601 PASEO SAN LUIS, SUITE 202
 SIERRA VISTA, ARIZONA 85635
 (520) 458-9594
 FAX (520) 458-2362

Cost Detail With Categories Without Labor and Equipment

Project Name: 22ND ST SEWER AUGMENTATION - 36" & 6" WATERLINE	Customer: PCRWRD
Job Number:	Billing Address: 1313 S. Mission Road
Bid As:	Tucson, AZ 85713
Estimator:	Phone:
Project Address:	Contact:
Completion Date:	

Pay Items

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
2020041 - REMOVAL OF PIPE	222.00	LF	\$10.69	\$2,373.10
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$1.37		\$1.75	\$1.80
Total:	\$305.10		\$388.00	\$400.00
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit:	\$25.45		\$37.82	\$34.70
Total:	\$5,089.50		\$7,564.00	\$6,940.36
4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216)	200.00	SY	\$127.74	\$25,548.96
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost				
(Item 4060114 - UTILITY TRENCH PATCH (TYPE 2)(PC/COT STD 216) continued)								
ABC Place & Compact - Small Areas* (40.00 SY/PH, 0.63 DY)	200.00	SY	\$7.97	\$1,594.38				
Place & Compact Asphalt	200.00	SY	\$26.56	\$5,312.40				
Asphalt Crew - Patch Small Area* (100.00 SY/DY, 2.00 DY)	200.00	SY	\$26.56	\$5,312.40				
QC	1.00	LS	\$1,000.00	\$1,000.00				
Pavement Patching (6" Jack & Bore)	23.00	SY	\$215.49	\$4,956.32				
JG - 8/26/2015 7:44 AM: 32'x16' boring pit + 10'x10' receiving pit								
Sawcutting	136.00	LF	\$1.36	\$185.00				
Remove Asphalt - Small Qty.*	23.00	SY	\$18.97	\$436.30				
Remove Asphalt* (11.50 SY/PH, 0.25 DY)	23.00	SY	\$18.97	\$436.30				
Haul Off	11.40	TON	\$23.21	\$264.44				
Load Waste - W/950 Loader* (11.40 SY/PH, 0.13 DY)	11.40	SY	\$15.21	\$173.28				
Trucking (1.00 DY, 0.14 Trucks, 1.42 TON/HR)	11.40	TON	\$8.00	\$91.16				
Pavement Patch - Type "2"	23.00	SY	\$90.03	\$2,070.58				
Purchase Materials	23.00	SY	\$37.13	\$853.91				
ABC FOB-Plant*	6.45	TON	\$8.95	\$57.74				
Asphalt Pag No. 2*	11.97	TON	\$55.00	\$658.08				
Truck ABC	5.87	TON	\$8.00	\$46.92				
Trucking (1.00 DY, 0.07 Trucks, 0.73 TON/HR)	5.87	TON	\$8.00	\$46.92				
Truck Asphalt	11.40	TON	\$8.00	\$91.16				
Trucking (1.00 DY, 0.14 Trucks, 1.42 TON/HR)	11.40	TON	\$8.00	\$91.16				
Place ABC	23.00	SY	\$13.86	\$318.88				
ABC Place & Compact - Small Areas* (23.00 SY/PH, 0.13 DY)	23.00	SY	\$13.86	\$318.88				
Place & Compact Asphalt	23.00	SY	\$39.03	\$897.80				
Asphalt Crew - Patch Small Area* (92.00 SY/DY, 0.25 DY)	23.00	SY	\$39.03	\$897.80				
QC	1.00	LS	\$2,000.00	\$2,000.00				
5100001 - 6" JACK & BORE	100.00	LF	\$616.69	\$61,669.20				
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
Unit:	\$11.77	\$24.92	\$50.00	\$530.00	\$0.00	\$0.00	\$0.00	
Total:	\$1,177.20	\$2,492.00	\$5,000.00	\$53,000.00	\$0.00	\$0.00	\$0.00	
Jack & Bore Mobilization					1.00	LS	\$10,000.00	\$10,000.00
Jack & Bore					100.00	LF	\$380.00	\$38,000.00
Shoring Engineering					1.00	LS	\$5,000.00	\$5,000.00
Shoring Rentals					1.00	LS	\$5,000.00	\$5,000.00
Jack & Bore Ex					213.00	CY	\$17.23	\$3,669.20
JG - 8/25/2015 8:59 PM: 32'*16'*11' deep Boring pit + 10'x10'x11' receiving pit								
Pipe - WATER 12"-16"* (26.63 CY/PH, 1.00 DY)					213.00	CY	\$17.23	\$3,669.20
5101106 - PIPE, DIP, 6"	100.00	LF	\$79.47	\$7,946.80				
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
Unit:	\$17.66	\$37.38	\$22.99	\$0.00	\$1.44	\$0.00	\$0.00	
Total:	\$1,765.80	\$3,738.00	\$2,299.00	\$0.00	\$144.00	\$0.00	\$0.00	
JG - 8/26/2015 8:02 AM: 6" DIP installation through jack & bore casing								
Buy Materials					18.00	TON	\$135.72	\$2,443.00
Pipe Bedding* (Cal Portland Materials)					19.80	TON	\$5.00	\$99.00
Trucking (1.00 DY, 0.23 Trucks, 2.25 TON/HR)					18.00	TON	\$8.00	\$144.00
6" DI 45*					2.00	EACH	\$100.00	\$200.00
6" DIP CL 350 Fully Restrained*					100.00	LF	\$20.00	\$2,000.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 5101106 - PIPE, DIP, 6" continued)				
ⓓ Install Pipe	100.00	LF	\$55.04	\$5,503.80
🚛 Pipe - WATER 12"-16"* (66.67 LF/DY, 1.50 DY)	100.00	LF	\$55.04	\$5,503.80
ⓓ 5101124 - PIPE, DIP, 24"	26.00	LF	\$440.35	\$11,449.10
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$67.92	\$143.77	\$7.11	\$145.45
Total:	\$1,765.80	\$3,738.00	\$184.76	\$3,781.81
	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
	\$10.34	\$65.77	\$0.00	
Total:	\$268.74	\$1,710.00	\$0.00	
ⓓ Buy Materials	33.59	TON	\$126.08	\$4,235.30
🔪 Pipe Bedding* (Cal Portland Materials)	36.95	TON	\$5.00	\$184.76
🚛 Trucking (1.00 DY, 0.42 Trucks, 4.20 TON/HR)	33.59	TON	\$8.00	\$268.74
💰 Materials Per Dana Kepners Quote	1.00	LS	\$3,539.31	\$3,539.31
📅 JG - 8/25/2015 8:18 PM: Stick of DIP, 24x6 Tee, FL Kit, 2 - restraints, poly				
Ⓢ Joint Bonds Per Peak Corrosion Quote	1.00	LS	\$242.50	\$242.50
ⓓ Install Pipe	26.00	LF	\$211.68	\$5,503.80
🚛 Pipe - WATER 12"-16"* (17.33 LF/DY, 1.50 DY)	26.00	LF	\$211.68	\$5,503.80
ⓓ Shoring	1.00	WK	\$1,710.00	\$1,710.00
🚛 Shoring Delivery & Pickup*	2.00	EACH	\$105.00	\$210.00
🚛 Shoring*	1.00	WK	\$1,500.00	\$1,500.00
ⓓ 5101136 - PIPE, DIP, 36"	196.00	LF	\$636.32	\$124,717.96
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$52.66	\$109.66	\$7.11	\$437.09
Total:	\$10,322.10	\$21,494.00	\$1,392.78	\$85,669.71
	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
	\$14.74	\$15.05	\$0.00	
Total:	\$2,889.38	\$2,950.00	\$0.00	
ⓓ Offload Pipe	222.00	LF	\$2.83	\$627.90
🚛 Pipe - Offload Crew* (37.00 LF/PH, 0.75 DY)	222.00	LF	\$2.83	\$627.90
ⓓ Buy Materials	253.23	TON	\$355.22	\$89,951.86
🔪 Pipe Bedding* (Cal Portland Materials)	278.56	TON	\$8.10	\$2,256.30
🚛 Trucking (1.00 DY, 3.17 Trucks, 31.65 TON/HR)	253.23	TON	\$8.00	\$2,025.86
💰 Materials Per Dana Kepners Quote	1.00	LS	\$83,905.71	\$83,905.71
📅 JG - 8/25/2015 8:22 PM: 36" pipe, fittings, testing supplies				
Ⓢ Joint Bonds Per Peak Corrosion Quote	1.00	LS	\$1,764.00	\$1,764.00
ⓓ Install Pipe	196.00	LF	\$159.12	\$31,188.20
🚛 Pipe - WATER 12"-16"* (23.06 LF/DY, 8.50 DY)	196.00	LF	\$159.12	\$31,188.20
ⓓ Shoring	2.00	WK	\$1,475.00	\$2,950.00
🚛 Shoring Delivery & Pickup*	6.00	EACH	\$105.00	\$630.00
🚛 Shoring*	2.00	WK	\$1,160.00	\$2,320.00
ⓓ 5102406 - GATE VALVE, BOX AND COVER, 6"	1.00	EACH	\$5,281.82	\$5,281.82
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$588.60	\$1,246.00	\$2,500.00	\$947.22
Total:	\$588.60	\$1,246.00	\$2,500.00	\$947.22
	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
	\$0.00	\$0.00	\$0.00	
Total:	\$0.00	\$0.00	\$0.00	
ⓓ Buy Materials	1.00	LS	\$3,447.22	\$3,447.22
🔪 60" Diameter SS Manhole*	1.00	EACH	\$2,500.00	\$2,500.00
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$947.22	\$947.22
ⓓ Install Valve	1.00	EACH	\$1,834.60	\$1,834.60
🚛 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60
ⓓ 5102424 - GATE VALVE, BOX AND COVER, 24"	1.00	EACH	\$20,337.79	\$20,337.79
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$588.60	\$1,246.00	\$2,500.00	\$16,003.19
Total:	\$588.60	\$1,246.00	\$2,500.00	\$16,003.19
	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>	
	\$0.00	\$0.00	\$0.00	
Total:	\$0.00	\$0.00	\$0.00	

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost					
(Item 5102424 - GATE VALVE, BOX AND COVER, 24" continued)									
Ⓛ Buy Materials	1.00	LS	\$18,503.19	\$18,503.19					
✍ 60" Diameter SS Manhole*	1.00	EACH	\$2,500.00	\$2,500.00					
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$16,003.19	\$16,003.19					
Ⓛ Install Valve	1.00	EACH	\$1,834.60	\$1,834.60					
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60					
Ⓛ 5102436 - GATE VALVE, BOX AND COVER, 36"	2.00	EACH	\$48,648.83	\$97,297.65					
			<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$1,177.20	\$2,492.00	\$1,250.00	\$43,729.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$2,354.40	\$4,984.00	\$2,500.00	\$87,459.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ⓛ Buy Materials	1.00	LS	\$89,959.25	\$89,959.25					
✍ 60" Diameter SS Manhole*	1.00	EACH	\$2,500.00	\$2,500.00					
Ⓢ Materials Per Dana Kepners Quote	2.00	EACH	\$43,729.63	\$87,459.25					
Ⓛ Install Valve	2.00	EACH	\$3,669.20	\$7,338.40					
🚚 Pipe - WATER 12"-16"* (1.00 EACH/DY, 2.00 DY)	2.00	EACH	\$3,669.20	\$7,338.40					
Ⓛ 5102604 - COMBINATION AIR RELEASE VALVE, 1"	1.00	EACH	\$4,113.78	\$4,113.78					
			<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$588.60	\$1,246.00	\$0.00	\$2,279.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$588.60	\$1,246.00	\$0.00	\$2,279.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
📅 JG - 8/26/2015 8:04 AM: ARV for 6" DIP									
Ⓛ Buy Materials	1.00	LS	\$2,279.18	\$2,279.18					
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$2,279.18	\$2,279.18					
Ⓛ Install ARV	1.00	EACH	\$1,834.60	\$1,834.60					
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60					
Ⓛ 5102606 - COMBINATION AIR RELEASE VALVE, 2"	1.00	EACH	\$4,113.78	\$4,113.78					
			<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$588.60	\$1,246.00	\$0.00	\$2,279.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$588.60	\$1,246.00	\$0.00	\$2,279.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ⓛ Buy Materials	1.00	LS	\$2,279.18	\$2,279.18					
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$2,279.18	\$2,279.18					
Ⓛ Install ARV	1.00	EACH	\$1,834.60	\$1,834.60					
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60					
Ⓛ 5106006 - CONNECTIONS, 6"	1.00	EACH	\$2,501.83	\$2,501.83					
			<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$588.60	\$1,246.00	\$22.00	\$599.59	\$45.64	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$588.60	\$1,246.00	\$22.00	\$599.59	\$45.64	\$0.00	\$0.00	\$0.00	\$0.00
Ⓛ Buy Materials	4.00	TON	\$166.81	\$667.23					
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$502.09	\$502.09					
✍ Pipe Bedding* (Cal Portland Materials)	4.40	TON	\$8.10	\$35.64					
🚚 Trucking (1.00 DY, 0.05 Trucks, 0.50 TON/HR)	4.00	TON	\$8.00	\$32.00					
Ⓢ Joint Bonds Per Peak Corrosion Quote	1.00	LS	\$97.50	\$97.50					
Ⓛ Tie-In	1.00	EACH	\$1,834.60	\$1,834.60					
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60					
Ⓛ 5106024 - CONNECTIONS, 24"	1.00	EACH	\$16,657.60	\$16,657.60					
			<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$645.30	\$1,256.00	\$575.30	\$14,101.13	\$79.87	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$645.30	\$1,256.00	\$575.30	\$14,101.13	\$79.87	\$0.00	\$0.00	\$0.00	\$0.00
Ⓛ Buy Materials	7.00	TON	\$1,936.61	\$13,556.30					
✍ Pipe Bedding* (Cal Portland Materials)	7.70	TON	\$8.10	\$62.37					

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 5106024 - CONNECTIONS, 24" continued)				
Trucking (1.00 DY, 0.09 Trucks, 0.88 TON/HR)	7.00	TON	\$8.00	\$56.00
Materials Per Dana Kepners Quote	1.00	EACH	\$1,021.13	\$1,021.13
JG - 8/25/2015 7:52 PM: MJxFL Adpt & restraint				
Materials Per Amerons Quote	1.00	LS	\$11,880.00	\$11,880.00
Sika Concrete Bags	6.00	EACH	\$55.00	\$330.00
CI B - 2500 PSI Concrete* (Cal Portland Materials)	2.20	CY	\$94.00	\$206.80
Welding	12.00	HR	\$100.00	\$1,200.00
Apply Grout	1.00	EACH	\$66.70	\$66.70
Foreman & 2 Labors* (2.00 MH/EACH, 0.13 DY)	1.00	EACH	\$66.70	\$66.70
Tie-In	1.00	EACH	\$1,834.60	\$1,834.60
Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60
5106030 - CONNECTIONS, 30"	1.00	EACH	\$18,004.96	\$18,004.96
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$56.70	\$10.00	\$569.80	\$17,300.00
				<u>Trucking</u>
Total:	\$56.70	\$10.00	\$569.80	\$17,300.00
				<u>Miscellaneous</u>
				<u>Plug</u>
JG - 8/25/2015 7:38 PM: Only consists of 30" Ameron tie-in				\$0.00
Buy Materials	6.00	TON	\$2,789.71	\$16,738.26
Pipe Bedding* (Cal Portland Materials)	6.60	TON	\$8.10	\$53.46
Trucking (1.00 DY, 0.08 Trucks, 0.75 TON/HR)	6.00	TON	\$8.00	\$48.00
Materials Per Amerons Quote	1.00	LS	\$16,100.00	\$16,100.00
Sika Concrete Bags	6.00	EACH	\$55.00	\$330.00
CI B - 2500 PSI Concrete* (Cal Portland Materials)	2.20	CY	\$94.00	\$206.80
Welding	12.00	HR	\$100.00	\$1,200.00
Apply Grout	1.00	EACH	\$66.70	\$66.70
Foreman & 2 Labors* (2.00 MH/EACH, 0.13 DY)	1.00	EACH	\$66.70	\$66.70
5106036 - CONNECTIONS, 36"	1.00	EACH	\$22,275.09	\$22,275.09
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>
Unit:	\$113.40	\$20.00	\$597.30	\$21,418.88
				<u>Trucking</u>
Total:	\$113.40	\$20.00	\$597.30	\$21,418.88
				<u>Miscellaneous</u>
				<u>Plug</u>
Buy Materials	11.00	TON	\$1,903.79	\$20,941.69
Pipe Bedding* (Cal Portland Materials)	12.10	TON	\$8.10	\$98.01
Trucking (1.00 DY, 0.14 Trucks, 1.38 TON/HR)	11.00	TON	\$8.00	\$88.00
Materials Per Dana Kepners Quote	1.00	EACH	\$2,938.88	\$2,938.88
JG - 8/25/2015 7:41 PM: spool piece only				
JG - 8/25/2015 7:43 PM: Time to install falls under 36" FIK & 36" valve				
Materials Per Amerons Quote	1.00	LS	\$17,280.00	\$17,280.00
Sika Concrete Bags	6.00	EACH	\$55.00	\$330.00
CI B - 2500 PSI Concrete* (Cal Portland Materials)	2.20	CY	\$94.00	\$206.80
Welding	12.00	HR	\$100.00	\$1,200.00
Apply Grout	1.00	EACH	\$133.40	\$133.40
Foreman & 2 Labors* (4.00 MH/EACH, 0.25 DY)	1.00	EACH	\$133.40	\$133.40
5107004 - FINAL CORROSION REPORT	1.00	LS	\$3,000.00	\$3,000.00
5107120 - CORROSION TEST STATION (CTS), NEW, BELOW GROUND	3.00	EACH	\$1,475.00	\$4,425.00
5107624 - FLANGE INSULATING KIT, (FIK), 24"	1.00	EACH	\$2,320.66	\$2,320.66

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 5107624 - FLANGE INSULATING KIT, (FIK), 24" continued)				
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$588.60	\$1,246.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$486.06
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$286.06	\$286.06
Ⓢ FIK Testing	1.00	EACH	\$200.00	\$200.00
Ⓧ Install FIK	1.00	EACH	\$1,834.60	\$1,834.60
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60
Ⓧ 5107630 - FLANGE INSULATING KIT, (FIK), 30"	1.00	EACH	\$2,572.21	\$2,572.21
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$588.60	\$1,246.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$737.61
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$537.61	\$537.61
Ⓢ FIK Testing	1.00	EACH	\$200.00	\$200.00
Ⓧ Install FIK	1.00	EACH	\$1,834.60	\$1,834.60
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60
Ⓧ 5107636 - FLANGE INSULATING KIT (FIK), 36"	1.00	EACH	\$2,803.87	\$2,803.87
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$588.60	\$1,246.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$969.27
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓢ Materials Per Dana Kepners Quote	1.00	EACH	\$769.27	\$769.27
Ⓢ FIK Testing	1.00	EACH	\$200.00	\$200.00
Ⓧ Install FIK	1.00	EACH	\$1,834.60	\$1,834.60
🚚 Pipe - WATER 12"-16"* (2.00 EACH/DY, 0.50 DY)	1.00	EACH	\$1,834.60	\$1,834.60
Ⓧ 7010001 - MAINTENANCE AND PROTECTION OF TRAFFIC	1.00	LS	\$44,880.00	\$44,880.00
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$0.00	\$0.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$44,880.00
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓧ Traffic Control	1.00	LS	\$29,440.00	\$29,440.00
Ⓢ TC Devices	1.00	LS	\$28,000.00	\$28,000.00
Ⓢ TC Labor	1.00	LS	\$1,440.00	\$1,440.00
Ⓧ Traffic Control (6" Jack & Bore)	1.00	LS	\$15,440.00	\$15,440.00
Ⓢ TC Devices	1.00	LS	\$14,000.00	\$14,000.00
📅 JG - 8/26/2015 7:38 AM: \$1000 / day for 2 weeks				
Ⓢ TC Labor	1.00	LS	\$1,440.00	\$1,440.00
Ⓧ 7310010 - POLE (TYPE A)(10')	2.00	EACH	\$786.00	\$1,572.00
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$0.00	\$0.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$786.00
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓢ Remove / Replace A-Poles	2.00	EACH	\$786.00	\$1,572.00
Ⓧ 7310200 - POLE FOUNDATION (TYPE A)	2.00	EACH	\$393.00	\$786.00
			<u>Labor</u>	<u>Equipment</u>
Unit:			\$0.00	\$0.00
			<u>Material</u>	<u>Subcontracted</u>
Total:			\$0.00	\$393.00
			<u>Trucking</u>	<u>Miscellaneous</u>
			\$0.00	\$0.00
			<u>Plug</u>	
			\$0.00	\$0.00
Ⓢ Provide Pole Foundations	2.00	EACH	\$393.00	\$786.00
Ⓢ 7350100 - LOOP DETECTOR	4.00	EACH	\$1,540.00	\$6,160.00
Ⓧ 9080005 - CONCRETE VERTICAL CURB (PC/COT STD. DTL. 209)(TYPE 2)	100.00	LF	\$22.90	\$2,289.62

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost			
<i>(Item 908005 - CONCRETE VERTICAL CURB (PC/COT STD. DTL. 209)(TYPE 2) continued)</i>							
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$13.28	\$2.80	\$6.81	\$0.00	\$0.00	\$0.00	\$0.00
Total:	\$1,328.40	\$280.00	\$681.22	\$0.00	\$0.00	\$0.00	\$0.00
ⓓ Remove/Replace Curb	100.00	LF				\$22.90	\$2,289.62
ⓓ Buy Materials	1.00	LS				\$681.22	\$681.22
✂ CI B - 2500 PSI Concrete* (Cal Portland Materials)	3.63	CY				\$94.00	\$341.22
✂ Curb Forms - 14" High*	300.00	SF				\$1.00	\$300.00
✂ Clear Cure*	5.00	GAL				\$4.00	\$20.00
✂ Form Oil*	5.00	GAL				\$4.00	\$20.00
ⓓ F/S Curb	300.00	SF				\$3.62	\$1,085.60
✂ CURB WEDGE TYPE HAND F/S (300.00 SF/DY, 1.00 DY)	300.00	SF				\$3.62	\$1,085.60
ⓓ P/F	100.00	LF				\$5.23	\$522.80
✂ CURB VERT TYPE 2 HAND P/F (0.16 MH/LF, 0.50 DY)	100.00	LF				\$5.23	\$522.80



5100 S. ALVERNON WAY
 TUCSON, ARIZONA 85706
 (520) 748-0188
 FAX (520) 748-8975

1601 PASEO SAN LUIS, SUITE 202
 SIERRA VISTA, ARIZONA 85635
 (520) 458-9594
 FAX (520) 458-2362

Cost Detail With Categories Without Labor and Equipment

Project Name: 22ND ST SEWER AUGMENTATION - 22ND MILL & OVERLAY	Customer: PCRWRD
Job Number:	Billing Address: 1313 S. Mission Road
Bid As:	Tucson, AZ 85713
Estimator:	Phone:
Project Address:	Contact:
Completion Date:	

Pay Items

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
<input checked="" type="checkbox"/> 400 - MILL & OVERLAY NORTH HALF OF 22ND/ALVERNON	1,549.00	SY	\$19.24	\$29,795.23
Labor				
Equipment				
Material				
Subcontracted				
Trucking				
Miscellaneous				
Plug				
Unit: \$1.43			\$0.00	\$0.00
Total: \$2,208.60			\$0.00	\$0.00
<input type="checkbox"/> Mill	1,549.00	SY	\$2.41	\$3,725.42
<input type="checkbox"/> Mainline Milling	1,549.00	SY	\$1.00	\$1,549.00
<input type="checkbox"/> Milling Support	1,549.00	SY	\$0.97	\$1,502.60
<input checked="" type="checkbox"/> RMV AC MILLING SUPRT (193.63 SY/PH, 1.00 DY)	1,549.00	SY	\$0.71	\$1,102.60
<input type="checkbox"/> Sweeping	4.00	HR	\$100.00	\$400.00
<input type="checkbox"/> Milling Haul-Off	168.45	TON	\$4.00	\$673.82
<input checked="" type="checkbox"/> Trucking (2.00 DY, 0.53 Trucks, 10.53 TON/HR)	168.45	TON	\$4.00	\$673.82
<input type="checkbox"/> Apply Tack	1,549.00	SY	\$1.57	\$2,437.85
<input type="checkbox"/> Buy Tack	77.45	GAL	\$2.43	\$187.85
<input checked="" type="checkbox"/> Asphalt Tack (Gallon) (Western Emulsions)	81.32	GAL	\$2.31	\$187.85
<input type="checkbox"/> Sub Boot Truck (Western Emulsions)	10.00	HR	\$185.00	\$1,850.00
<input type="checkbox"/> Sweeping	4.00	HR	\$100.00	\$400.00
<input type="checkbox"/> Overlay	1,549.00	SY	\$10.42	\$16,144.06
<input type="checkbox"/> Buy Materials	168.45	TON	\$71.17	\$11,989.46
<input checked="" type="checkbox"/> Asphalt Pag No. 2 (Vulcan Materials)	176.88	TON	\$61.00	\$10,789.46
<input checked="" type="checkbox"/> Plant Open Fee	1.00	EACH	\$1,200.00	\$1,200.00
<input type="checkbox"/> Pave Mainline	158.00	TON	\$23.24	\$3,671.85
<input checked="" type="checkbox"/> Asphalt Paving* (26.33 TON/PH, 0.75 DY)	158.00	TON	\$23.24	\$3,671.85
<input type="checkbox"/> Rake Radiuses	10.45	TON	\$46.20	\$482.75
<input checked="" type="checkbox"/> Asphalt Paving* (5.23 TON/PH, 0.25 DY)	10.45	TON	\$46.20	\$482.75
<input type="checkbox"/> Stripe Roadway	681.00	LF	\$2.92	\$1,987.90
<input type="checkbox"/> Layout Striping	681.00	LF	\$0.13	\$87.90
<input checked="" type="checkbox"/> Labor Crew 2 - 2 Laborers & Pickup* (227.00 LF/PH, 0.38 DY)	681.00	LF	\$0.13	\$87.90
<input type="checkbox"/> Stripe Roadway	618.00	LF	\$2.75	\$1,700.00
<input type="checkbox"/> Sweeping	2.00	HR	\$100.00	\$200.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
-------------	----------	----	------------------	-------------------

(Item 400 - MILL & OVERLAY NORTH HALF OF 22ND/ALVERNON continued)

QC	1.00	LS	\$500.00	\$500.00
Traffic Control	1.00	LS	\$5,000.00	\$5,000.00
JG - 9/9/2015 9:57 AM: \$2500/day for 2 days				

401 - MILL AND OVERLAY ALVERNON TO BRYANT 10,020.00 SY \$13.53 \$135,596.46

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	\$0.65	\$1.09	\$6.17	\$4.28	\$1.35	\$0.00	\$0.00
Total:	\$6,485.40	\$10,876.00	\$61,855.59	\$42,867.50	\$13,511.97	\$0.00	\$0.00

Mill	10,020.00	SY	\$1.36	\$13,674.90
Mainline Milling	10,020.00	SY	\$0.55	\$5,511.00
Milling Support	10,020.00	SY	\$0.38	\$3,805.20
RMV AC MILLING SUPRT (626.25 SY/PH, 2.00 DY)	10,020.00	SY	\$0.22	\$2,205.20
Sweeping	16.00	HR	\$100.00	\$1,600.00
Milling Haul-Off	1,089.68	TON	\$4.00	\$4,358.70
Trucking (2.00 DY, 3.41 Trucks, 68.10 TON/HR)	1,089.68	TON	\$4.00	\$4,358.70
Apply Tack	10,020.00	SY	\$0.46	\$4,575.18
Buy Tack	501.00	GAL	\$2.43	\$1,215.18
Asphalt Tack (Gallon) (Western Emulsions)	526.05	GAL	\$2.31	\$1,215.18
Sub Boot Truck (Western Emulsions)	16.00	HR	\$185.00	\$2,960.00
Sweeping	4.00	HR	\$100.00	\$400.00
Overlay	10,020.00	SY	\$8.43	\$84,481.08
Buy Materials	1,089.68	TON	\$64.05	\$69,793.68
Asphalt Pag No. 2 (Vulcan Materials)	1,144.16	TON	\$61.00	\$69,793.68
Pave Mainline	1,089.68	TON	\$13.48	\$14,687.40
Asphalt Paving* (45.40 TON/PH, 3.00 DY)	1,089.68	TON	\$13.48	\$14,687.40
Stripe Roadway	9,198.00	LF	\$1.89	\$17,365.30
Layout Striping	9,198.00	LF	\$0.05	\$468.80
Labor Crew 2 - 2 Laborers & Pickup* (574.88 LF/PH, 2.00 DY)	9,198.00	LF	\$0.05	\$468.80
Stripe Roadway	9,198.00	LF	\$1.75	\$16,096.50
Sweeping	8.00	HR	\$100.00	\$800.00
QC	1.00	LS	\$500.00	\$500.00
Traffic Control	1.00	LS	\$15,000.00	\$15,000.00
JG - 9/9/2015 9:58 AM: \$2500/day for 6 days				

402 - MILL AND OVERLAY BRYANT TO SWAN 4,009.00 SY \$18.81 \$75,414.00

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	\$0.91	\$1.42	\$6.17	\$8.96	\$1.35	\$0.00	\$0.00
Total:	\$3,661.20	\$5,688.00	\$24,748.41	\$35,910.26	\$5,406.14	\$0.00	\$0.00

Mill	4,009.00	SY	\$1.65	\$6,602.77
Mainline Milling	4,009.00	SY	\$0.55	\$2,204.95
Milling Support	4,009.00	SY	\$0.66	\$2,653.90
RMV AC MILLING SUPRT (334.08 SY/PH, 1.50 DY)	4,009.00	SY	\$0.41	\$1,653.90
Sweeping	10.00	HR	\$100.00	\$1,000.00
Milling Haul-Off	435.98	TON	\$4.00	\$1,743.92
Trucking (2.00 DY, 1.36 Trucks, 27.25 TON/HR)	435.98	TON	\$4.00	\$1,743.92
Apply Tack	4,009.00	SY	\$0.96	\$3,846.19
Buy Tack	200.45	GAL	\$2.43	\$486.19
Asphalt Tack (Gallon) (Western Emulsions)	210.47	GAL	\$2.31	\$486.19

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 402 - MILL AND OVERLAY BRYANT TO SWAN continued)				
Ⓢ Sub Boot Truck (Western Emulsions)	16.00	HR	\$185.00	\$2,960.00
Ⓢ Sweeping	4.00	HR	\$100.00	\$400.00
ⓓ Overlay	4,009.00	SY	\$8.80	\$35,268.14
ⓓ Buy Materials	435.98	TON	\$64.05	\$27,924.44
✍ Asphalt Pag No. 2 (Vulcan Materials)	457.78	TON	\$61.00	\$27,924.44
ⓓ Pave Mainline	435.98	TON	\$16.84	\$7,343.70
🚛 Asphalt Paving* (36.33 TON/PH, 1.50 DY)	435.98	TON	\$16.84	\$7,343.70
ⓓ Stripe Roadway	6,560.00	LF	\$2.93	\$19,196.91
ⓓ Layout Striping	6,560.00	LF	\$0.05	\$351.60
🚛 Labor Crew 2 - 2 Laborers & Pickup* (546.67 LF/PH, 1.50 DY)	6,560.00	LF	\$0.05	\$351.60
Ⓢ Stripe Roadway	6,560.00	LF	\$2.75	\$18,045.31
Ⓢ Sweeping	8.00	HR	\$100.00	\$800.00
Ⓢ QC	1.00	LS	\$500.00	\$500.00
Ⓢ Traffic Control	1.00	LS	\$10,000.00	\$10,000.00
📅 JG - 9/9/2015 10:05 AM: \$2500/day for 4 days				

ⓓ 403 - TYPE I TRENCH PATCH AT SWAN					153.00 SY	\$111.75	\$17,098.49
	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontracted</u>	<u>Trucking</u>	<u>Miscellaneous</u>	<u>Plug</u>
Unit:	\$11.12	\$21.65	\$27.27	\$47.61	\$4.11	\$0.00	\$0.00
Total:	\$1,701.00	\$3,312.00	\$4,171.82	\$7,284.69	\$628.98	\$0.00	\$0.00
Ⓢ Sawcutting				460.00	LF	\$1.20	\$552.00
ⓓ Overlay				153.00	SY	\$63.38	\$9,696.60
ⓓ Buy Materials				74.88	TON	\$64.11	\$4,800.80
✍ Asphalt Pag No. 2 (Vulcan Materials)				78.62	TON	\$61.00	\$4,795.95
✍ Asphalt Tack (Gallon) (Western Emulsions)				2.10	GAL	\$2.31	\$4.85
ⓓ Pave Mainline				74.88	TON	\$65.38	\$4,895.80
🚛 Asphalt Paving* (9.36 TON/PH, 1.00 DY)				74.88	TON	\$65.38	\$4,895.80
ⓓ Stripe Roadway				230.00	LF	\$4.13	\$949.89
ⓓ Layout Striping				230.00	LF	\$0.51	\$117.20
🚛 Labor Crew 2 - 2 Laborers & Pickup* (57.50 LF/PH, 0.50 DY)				230.00	LF	\$0.51	\$117.20
Ⓢ Stripe Roadway				230.00	LF	\$2.75	\$632.69
Ⓢ Sweeping				2.00	HR	\$100.00	\$200.00
Ⓢ Sweeping				4.00	HR	\$100.00	\$400.00
Ⓢ QC				1.00	LS	\$500.00	\$500.00
Ⓢ Traffic Control				1.00	LS	\$5,000.00	\$5,000.00
📅 JG - 9/9/2015 10:06 AM: \$2500/day for 2 days							



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

September 25, 2015

RE: 22nd St Augmentation – Alvernon Way to Swan Rd
Project #: CWW.322AS5
Submittal: Final GMP
Item #: 7
Exhibit B: Audited Overhead Rate

Enclosed is a copy of the General and Administrative Expenses (G&A) schedule for calendar years ending 12/31/14 and 12/31/13 from KE&G Construction, Inc.'s annual audited financial statements which support our overhead rate request of 9% for the above referenced project. As you will see from the attached schedule, our annual total G&A expenses were 9.4% and 9.3% of revenue for each year.

If you have any questions concerning the attached, please do not hesitate to contact me.

KE&G Construction, Inc

Chris Weinell, CPA
Controller

K E & G CONSTRUCTION, INC.

CONSOLIDATED GENERAL AND ADMINISTRATIVE EXPENSES

YEARS ENDED DECEMBER 31, 2014 AND 2013

	<u>2014</u>		<u>2013</u>	
	<u>Amount</u>	<u>Percent of revenues</u>	<u>Amount</u>	<u>Percent of revenues</u>
Salaries, taxes and benefits	\$ 3,046,334	6.3 %	\$ 2,446,999	7.0 %
Advertising	14,234	-	5,391	-
Bad debt	139,906	0.3	-	-
Bank charges	11,670	-	11,240	-
Conferences	34,023	0.1	15,520	-
Contributions	31,275	0.1	23,916	0.1
Depreciation	31,894	0.1	29,817	0.1
Dues and subscriptions	22,113	-	18,617	0.1
Employee benefits	25,181	0.1	42,379	0.1
ESOP contribution	424,335	0.9	-	-
Insurance	28,047	0.1	16,341	-
Janitorial	8,852	-	9,237	-
Legal and accounting	111,884	0.2	89,838	0.3
Miscellaneous	32,036	0.1	25,110	0.1
Meals and entertainment	2,753	-	2,274	-
Office	203,775	0.4	196,375	0.6
Postage	4,950	-	6,162	-
Rent	47,034	0.1	48,468	0.1
Safety	155,399	0.3	166,431	0.5
Taxes and licenses	26,961	0.1	17,317	-
Telephone	89,288	0.2	79,279	0.2
Travel	18,162	-	13,051	-
Utilities	20,810	-	17,483	0.1
Vehicle	-	-	68	-
	<u>\$ 4,530,916</u>	<u>9.4 %</u>	<u>\$ 3,281,313</u>	<u>9.3 %</u>



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

July 30, 2015

Interested Parties,

KE&G Construction, Inc. is soliciting quotations as the Construction Manager At Risk under the contract from Pima County for the construction of the RWRD project 22nd Street Sewer Augmentation Project No. 322AS5. This contract is for the installation of approximately 5,492 linear feet of new 12 inch PVC sewer and necessary appurtenances. The estimated start date for construction is October 01, 2015 and shall be completed no later than November 25, 2015. Please note in your bid package the project schedule as it applies to your specific bid package. Included as part of the work necessary for construction are the following scopes of work:

- 30 inch Jack & Bore
- New Manhole Installation
- Asphalt Saw Cutting
- Concrete Curbing / Sidewalk Replacement
- Pavement Trench Patching
- Trucking / Hauling
- Bypass Pumping

Bids are due on **Friday, August 7th at 3:00 PM**. Please note that late bids **will not** be accepted. Bids will be accepted via mail, fax, or email. Send questions via email to Brian Janski at bjanski@kegtus.com.

Please submit bids to:

KE&G Construction, Inc.
5100 S Alvernon Way
Tucson, AZ 85706
Fax: 520-748-8975
bvaldez@kegtus.com

Attached you will find the project plans, bid sheet (if applicable), project plan overview, construction schedule, and draft subcontract agreement. Please note the subcontract requirements which will need to be met without exception.

KE&G Construction, Inc.

Barbara Valdez
Office Engineer

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: _____

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
3.00	930 TON	Aggregate Base (5" Thickness)	\$ _____	\$ _____
4.00	3,647 SY	Asphalt Trench Patching	\$ _____	\$ _____
			TOTAL BASE BID	\$ _____

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: _____

Printed Name: _____ Date: _____

3.00 - AGGREGATE BASE COURSE

DESCRIPTION:

All aggregate base material will be in conformance with the PC/COT Standard Specification for Public Improvements and the PC/COT Standard Details for Public Improvements 2003 Editions. Geotechnical investigation indicates areas having up to 5" of structural base. All structural sections shall be assumed to include 5" of PAG ABC no payment will be made for additional thickness. Typical patch areas can included, but are not limited to locations where a new 12" PVC sewer line including 4" house connection sewers and areas where manhole reconstruction or installation will be taking place.

PROJECT INFORMATION AND PHASING:

This project will be linear in nature. Aggregate Base Course will be in the areas of Trench patching shall begin and continue on the mainline sewer between S Alvernon Road along 22nd Street to S Swan Road. Again, all pavement trench patching shall include up to 5" of PAG ABC: It is anticipated that a maximum of 500 linear feet of trench will be available at a time. Trench widths may vary from a minimum of 4' wide to a maximum of 18' wide, depending on location. Subcontractor is required to work within the contractors existing traffic control which will provide a minimum of two travel lanes in each direction at all arterial streets between the hours of 6:00 AM and 6:00 PM.

AGGREGATE BASE MATERIALS AND TESTING:

All work related to the aggregate base on this project shall be in strict compliance with section 303 of the PC/COT Standard Specifications for Public Improvements 2003 Edition. KE&G shall provide a compacted subgrade meeting 95% compaction. Subcontractor will be required to provide material and compaction necessary to achieve 100% compaction in all areas. KE&G shall provide on-site testing at a frequency of 1 test between manholes and 1 test at each manhole, or 1 per day, whichever occurs least. Failed tests shall be re-tested and paid by subcontractor.

METHOD OF MEASUREMENT

Aggregate Base will be measured by the ton (TN) for theoretical areas of paving as noted in the bidding schedule.

Measurement, as provided above, will include aggregate base material and compaction used in the construction of miscellaneous trench patching throughout the project.

BASIS OF PAYMENT

The accepted quantities of aggregate base, measured as provided above, will be paid for under the appropriate bid items at the contract unit price complete-in-place.

It shall be noted that pavement trench patching will take place on an as needed basis throughout the project and no additional compensation shall be made for multiple mobilizations.

No additional compensation will be made for any additional or increased charges, costs, expenses, taxes, etc, which the contractor may have incurred since the time of bidding and which may be the result of any increase in the "initial cost" of material.

No additional compensation will be made for additional mobilizations.\

4.00 - ASPHALTIC CONCRETE TRENCH PATCHING

DESCRIPTION:

The work under this section shall consist of furnishing all materials, mixing at a plant, hauling, placing and compacting a mixture of aggregate, asphalt cement and approved mineral admixture to form a pavement course or for other purposes as specified and in accordance with the details shown on the project plans and the requirements of these specifications.

Asphalt mix designs must be submitted and approved prior to placement.

Asphaltic concrete shall be produced in a batch mixing plant, a continuous pugmill mixing plant or a drum drier mixing plant. Proportioning shall be either by hot-feed control or cold-feed control.

The work under this section shall also consist of furnishing, placing and compacting an aggregate base course in accordance with the PC/COT Standard Specifications for Public Improvements 2003 Edition.

All trench patching will be in conformance with the PC/COT Standard Specification for Public Improvements and the PC/COT Standard Details for Public Improvements 2003 Editions. All trench patching shall be completed per Std. Detail 216, "Type 2 Utility Trench Patch." Geotechnical investigation indicates areas having 8" and 10" asphalt structural section. All structural sections shall be assumed to include 9" of Pag 2 on top of 5" Aggregate Base, no payment will be made for additional thickness. Typical patch areas can included, but are not limited to locations where a new 12" PVC sewer line including 4" house connection sewers and areas where manhole reconstruction or installation will be taking place.

PROJECT INFORMATION AND PHASING:

This project will be linear in nature. Trench patching shall begin and continue on the mainline sewer between S Alvernon Road along 22nd Street to S Swan Road. Again, all pavement trench patching shall include 9" of PAG 2 arterial: It is anticipated that a maximum of 500 linear feet of trench will be available at a time. Trench widths may vary from a minimum of 4' wide to a maximum of 18' wide, depending on location. Subcontractor is required to work within the contractors existing traffic control which will provide a minimum of two travel lanes in each direction at all arterial streets between the hours of 6:00 AM and 6:00 PM.

AGGREGATE BASE MATERIALS AND TESTING:

All work related to the aggregate base on this project shall be in strict compliance with section 303 of the PC/COT Standard Specifications for Public Improvements 2003 Edition.

ASPHALTIC CONCRETE MATERIALS AND TESTING:

All work related to the asphaltic concrete on this project shall be in strict compliance with section 406 of the PC/COT Standard Specifications for Public Improvements 2003 Edition.

Tack coat shall be applied prior to placing a bituminous mixture on a primed surface, an existing bituminous surface, or an existing Portland cement concrete pavement surface. Tack coat shall be applied between layers of bituminous mixtures.

The material to be used for bituminous tack coat shall conform to the requirements of Section 1005 of the

PC/COT Standard Specifications for Public Improvements 2003 Edition.

All costs of supplying and applying any necessary tack coat prior to paving shall be included in the price submitted for trench patching.

METHOD OF MEASUREMENT

Trench patching will be measured by the square yard (SY) for areas of paving as noted in the bidding schedule.

Measurement, as provided above, will include asphaltic concrete, and tack coat used in the construction of miscellaneous trench patching throughout the project.

BASIS OF PAYMENT

The accepted quantities of asphaltic concrete, measured as provided above, will be paid for under the appropriate bid items at the contract unit price complete-in-place.

It shall be noted that pavement trench patching will take place on an as needed basis throughout the project and no additional compensation shall be made for multiple mobilizations.

No additional compensation will be made for any additional or increased charges, costs, expenses, taxes, etc, which the contractor may have incurred since the time of bidding and which may be the result of any increase in the "initial cost" of asphaltic concrete.

No additional compensation will be made for additional mobilizations.



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

Date

Name
Company
Address
City, ST Zip

Re: Job Name Job #

Dear

We are enclosing **Subcontract Agreement No. -S** for the work in connection with the above referenced project. Please execute the two copies of this Subcontract Agreement and return them to our office via regular mail or please print out one copy, execute, scan and return via email to:

KE&G Construction, Inc.
Attn:
5100 S. Alvernon Way
Tucson, AZ 85706

A fully executed copy will be returned for your files.

The Certificates of Insurance required in the attached subcontract must accompany the signed Subcontract Agreement and must indicate that they are in force, prior to the start of any work by your forces on this project. Please reference "Any and All Projects" on your insurance certificate, or reference the job number above on all certificates. If your company maintains an "Any and All Projects" certificate, a (project specific) certificate is not required.

No work is to begin on this project until the fully executed Subcontract Agreement, properly completed insurance certificates, and properly executed bonds (if required) are received by KE&G's Tucson office, as noted above.

Do not make any modifications to this Subcontract Agreement. Please notify me to discuss and coordinate any contract changes. Changes to this Subcontract Agreement will not be valid unless modified by written amendment.

For billing purposes, when invoices are submitted for partial payments under Section 5 of this Subcontract, please state on each invoice for each item of work, the current amount billed, as well as the total amount billed to date. In addition, please note **Job No.** on all invoices.

If you have any questions, please do not hesitate to call.

Regards,

KE&G Construction, Inc.

KE&G Project Coordinator Name
Job Title

cc: File .3.20

SUBCONTRACT AGREEMENT

KE&G Construction, Inc.
5100 South Alvernon Way
Tucson, Arizona 85706 Office:
(520) 748-0188 Fax: (520)
748-8975

SUBCONTRACTOR:
ADDRESS:
PROJECT TITLE:

SUBCONTRACT NUMBER: -5
KE&G JOB NUMBER:
PRIME CONTRACT NO.:

THIS AGREEMENT (the "Agreement") is entered into this 06 day of September, 2013, by and between (the "Subcontractor"), and KE&G CONSTRUCTION, INC. (the "Contractor"), WITNESSETH:

SECTION 1. THE PROJECT: Contractor has been hired by (the "Owner") to construct (the "Project") in accordance with the terms and provisions of the Prime Contract No. between the Owner and the Contractor, dated (the "Prime Contract"), including all the general and special conditions, provisions, drawings, specifications, addenda numbers, and all other documents and revisions to date, as prepared by, forming or by reference made a part of the Prime Contract between the Contractor and Owner, and with particular reference to the below-listed technical and/or other sections or parts of the contract documents, all of which shall be considered part of this subcontract by reference thereto and they are as fully a part of this subcontract agreement as if hereto attached or the terms herein repeated, and the Subcontractor agrees to bind and obligate himself, in the performance of this subcontract, to the Contractor by the same terms, conditions, undertakings, and obligations that the Contractor is bound and obligated to the Owner by the Prime Contract insofar as the terms thereof shall not be in conflict with the terms hereof. Copies of said Prime Contract are on file in the office of the Contractor for Subcontractor's review, although Contractor may redact pricing information and other provisions from the Prime Contract as it deems reasonably necessary.

SECTION 2. SCOPE OF WORK: The Subcontractor agrees to furnish all labor, materials, tools, equipment, supplies, and supervision necessary or incidental to complete Work on the Project as follows:

Together with all authorized changes, this description as clarified by Project plans and specifications constitutes Subcontractor's "Work." When the Subcontractor does not install all material furnished under the subcontract, such material as is not installed is to be delivered F.O.B to the jobsite. The Parties each agree to proceed with the Project and the Work in good faith and in fair dealing. Each Party agrees to promote cooperation between the Parties and all other parties performing Work on the Project.

SECTION 3. SUBMITTALS: copies of complete detailed shop drawings, lists and brochures for architect and/or engineer approval shall be submitted through Contractor office within days of the date of this Agreement, as well as required material samples and color selections. ALL DRAWINGS REQUIRED OF THE SUBCONTRACTOR MUST BE SUBMITTED FOR APPROVAL OF THE ARCHITECT/ENGINEER THROUGH THE CONTRACTOR'S OFFICE.

SECTION 4. TIME OF PERFORMANCE: Time is of the essence in Subcontractor's performance of the Work. The Subcontractor shall furnish materials and prosecute the Work at the times herein provided for and otherwise in a prompt, diligent and expeditious manner and so as to promote the general progress of the entire construction and shall not, by delay or otherwise, interfere with or hinder the work of the Contractor or any other subcontractor. The Subcontractor agrees to keep itself informed as to the progress of the Project and to faithfully prosecute his Work, and several parts thereof, at such times and in such order as the Contractor considers necessary to keep the same sufficiently in advance of the other parts of the Project and to avoid any delay in the completion of the construction as a whole. The scheduled TIME OF PERFORMANCE OF THE WORK FORMING A PART OF THIS SUBCONTRACT IS IN ACCORDANCE WITH CONTRACTOR'S SCHEDULE IN ATTACHMENT "B".

SECTION 5. PAYMENTS: The Contractor agrees to pay the Subcontractor for material furnished and/or Work to be performed herein and performance of the subcontract as otherwise provided for herein the sum of dollars, \$, subject to additions and deductions for changes as may be agreed upon, or determined, as provided herein and subject to adjustments from quantity of Work performed at unit prices set forth under section 2 above. The aforementioned sum includes all taxes of any nature whatsoever that may be assessed against or incurred by the Subcontractor in performance of its Work. Partial payments less a retained percentage of % will be made to the Subcontractor, provided the Subcontractor has submitted its payment request to the Contractor's office on or before the day of each month, at the unit price set forth in Section 2 for Work and material incorporated into the construction and/or materials delivered to the site of the Work as estimated by the Owner's architect/engineer, less the aggregate of previous payments, providing payment for such Work and material has been approved by the Owner and payment has been received from the Owner by the Contractor, and upon complete performance of this subcontract and approval and acceptance of the Subcontractor's Work and material by the architect/engineer, the Contractor shall make final payment to the Subcontractor of the balance due to him within days after Contractor receives final payment from Owner. No payment on account shall be considered as an approval and/or acceptance of Work done or materials furnished, or any part thereof. The Subcontractor agrees the monies shall not be diverted to satisfy obligation of the Subcontractor on other contracts and the Subcontractor agrees to furnish proof of same upon written request of the Contractor. Contractor may issue joint checks payable to Subcontractor and its subcontractors and/or suppliers.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE EXECUTED THIS AGREEMENT by their proper officers duly authorized herein.

CONTRACTOR: KE&G CONSTRUCTION, INC.
Signature Date
Print Name Title
AZ Contractors License Numbers: ROC 227962; ROC 227963

SUBCONTRACTOR:
Signature Date
Print Name Title
AZ License # SS#/FEIN

SECTION 6. DELAY DAMAGES: The Prime Contract contains a liquidated damages clause in the amount of _____. Should the Subcontractor default in the proper performance of its Work, thereby resulting in delay, then Subcontractor shall be liable to Contractor for any and all loss and damages, including but not limited to liquidated damages assessed against the Contractor, extended general conditions, and Contractor's lost or foregone overhead and profit.

SECTION 7. SCHEDULES: Subcontractor shall perform its Work in accord with the Project schedule to be prepared by Contractor, which schedule shall be attached to this Agreement as Exhibit A upon its preparation. Subcontractor agrees to fully cooperate with the Contractor in maintaining and complying with Contractor's Project schedule. Upon request by the Contractor, the Subcontractor shall furnish the Contractor in writing appropriate information concerning its progress on the Work, including a progress schedule. Subcontractor's information and schedule will show in detail if required in Contractor's sole discretion the procurement, shop drawing, fabrication, delivery and installation activities of all the major components of Work. Subcontractor agrees to meet and keep this schedule and to apprise the Contractor monthly of its schedule progress, which term is a material condition of this Agreement. Subcontractor will adjust its performance schedule and pay all costs necessary to meet the Project schedule.

SECTION 8. EXTENSION OF TIME: No allowance of an extension of time, for any cause whatsoever, shall be claimed by the Subcontractor or be made to him, unless the Contractor and Subcontractor have agreed in writing upon the allowance of additional time to be made, the agreement for which must arise out of Subcontractor's written request for such extension made within forty eight hours after the cause of such extension occurred. No allowance of an extension of time shall, in any event be made to the Subcontractor, for delay by the Subcontractor in preparing submittals, or in securing approval of the architect or engineer thereto, when such submittals are not properly prepared, or when the Subcontractor, by the exercise of reasonable diligence and judgment, could have anticipated and avoided the delay.

SECTION 9. CLEANUP: Subcontractor will at all times maintain the site, all staging areas, and all surrounding sites free of debris and waste caused by its operations performed pursuant to this Agreement. Subcontractor shall not be held responsible for such site conditions caused by others, but Contractor may assess Subcontractor and offset any costs it incurs for removal of waste caused by Subcontractor's operations.

SECTION 10. WITHHOLDING OF FUNDS: The Contractor may deduct from any amounts otherwise due or to become due to the Subcontractor any sum or sums owing by the Subcontractor to the Contractor whether from a previously-approved pay application or all or a portion of a rejected pay application in an amount the Contractor determines to be sufficient to protect Contractor from loss or damage for which the Contractor may be liable. Contractor may reduce any payment to Subcontractor to offset or recoup any liability Subcontractor has to Contractor under this Agreement, including damage or loss Contractor incurs due to Subcontractor's failure to perform the Work in accord with all terms and conditions of this Agreement. Contractor is not liable for interest or other penalty for any amount withheld from a progress or final payment under this paragraph.

SECTION 11. CHANGES: The Owner or the Contractor may request changes in or to the timing or sequence of Subcontractor's Work, which changes may impact the pricing or time requirements of this Agreement. All changes in the Subcontractor's Work that affect the Subcontractor value or time shall be formalized in a Change Order. In the absence of an agreement on the terms of Subcontractor's performance of the change, the Contractor may issue a written order directing Subcontractor to make changes in materials to be furnished or Work to be performed under this Agreement or additions thereto or omissions therefrom so long as the directed changes generally are of the type or character already within Subcontractor's Work. Upon receipt of any such directive, the Subcontractor shall not stop or suspend its performance but shall diligently perform the Work as changed regardless of whether the Contractor and Subcontractor are able to agree whether or to the extent the changes have any effect on the price or time requirements of this Agreement. Subcontractor must submit its costs for changes not reflected in a formal Change Order beginning with its next regularly-scheduled pay application. If there is a dispute as to the cost of the change, the Contractor shall pay Subcontractor 50% of its estimated cost to perform the change as it becomes due pursuant to Section 5, with each party reserving its right as to all amounts in dispute. Subcontractor expressly acknowledges that the Contractor may be damaged for Subcontractor's failure to timely perform changes to the Work as directed, including disputed changes.

SECTION 12. EARLY TERMINATION OF WORK: In the event the Owner by any reason suspends or terminates the construction of the Project or any portion thereof, the Subcontractor shall be entitled to payment for the Work done up to the time of such suspension or cancellation.

SECTION 13. FAILURE TO PERFORM: In the event the Subcontractor fails to comply with the provisions herein for any reason as to the character of the Work and time of performance, refuses to proceed with the Work as directed by the Contractor, or fails to perform said Work in accordance with Project plans and specifications, in whole or in part, or fails to perform any term, covenant or condition contained in this Agreement, then the Contractor may, at the Contractor's option and upon twenty-four (24) hours written notice and without prejudice to any other right or remedy, take any steps the Contractor deems expedient to finish the Work and pay any claims. If the unpaid balance of the Agreement exceeds the expense of finishing the Work or if Contractor experiences damages for the delayed completion of Subcontractor's Work, then Subcontractor shall pay all damages for delay Contractor assesses or other damages and expenses Contractor incurs, including any reasonable overhead and profit Contractor assesses. Contractor, by entering into this Agreement, does not waive any tort remedies, including those solely involving economic loss, it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise. Contractor expressly preserves any tort claims, remedies, and damages it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise.

SECTION 14. INSURANCE: THE SUBCONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING THE PERFORMANCE OF THIS SUBCONTRACT THE FOLLOWING:

- 1) Carrier (insurance company) shall be rated A-VII or better by A.M. Best AND authorized to do business in the State of Arizona.
- 2) All policies shall be an occurrence basis form. "Claims made" policies are NOT acceptable.
- 3) Certificate may cover multiple jobs if it states "All Operations" and conforms to all applicable requirements listed herein.
- 4) Waivers of subrogation - Subcontractor will waive any subrogation rights it may have falling within the following categories of possible Project liability or insurance: worker's compensation, general liability, automobile liability, Contractor's equipment and any builder's risk/installation floater.
- 5) Auto liability covering owned, hired, and non-owned vehicles. Auto policy shall include KE & G Construction, Inc., the owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insureds.
- 6) If Subcontractor's insurance is considered inadequate, it shall pay any additional premium required by its carrier to obtain the minimum coverage required under this Agreement.
- 7) Umbrella Liability Insurance: KE&G Construction, Inc., the Owner, their respective directors, officers, employees, members, agents and others are also additional insureds.

ALL CERTIFICATES SHALL INCLUDE:

- 1) Separate endorsement (attached to Insurance Certificate) for liability insurance only:
 - ◆ Additional Insured. To the fullest extent permitted by law, General Liability and Excess Liability shall include Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insured(s) providing "Your Work" coverage (including both On-Going and Completed Operations coverage) arising out of work performed for the Contractor by the Subcontractor. Additional Insured status for the Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract shall extend from the date of commencement of the work under the project until the expiration of the period established in the applicable state's statute of repose.
 - ◆ Aggregate Limits of Insurance (per Project). Each work order under a master contract is considered a separate project.
 - ◆ Primary Insurance. The Subcontractor's policy shall contain an endorsement making its policy primary and coverage maintained by KE&G Construction, Inc., the Owner and others as required by contract excess and non-contributing, either via language added to the additional insured endorsement or by a separate endorsement.
 - ◆ No limiting endorsements permitted for a required coverage.

The acceptance of an incorrect certificate by KE&G or its failure to obtain any certificate from Subcontractor does NOT waive the Subcontractor's obligations to comply with all insurance requirements of this Agreement.

MINIMUM POLICY LIMITS: (Does not limit your liability or obligation to indemnify, hold harmless and defend KE&G Construction, Inc., the Owner or others as required under the contract documents.) If you have or obtain insurance coverage in amounts in excess of those listed below, such additional insurance coverage shall also apply to the benefit of the Indemnitied/Additional Insured

SUBCONTRACTOR'S INITIALS _____

DATE _____

1. Commercial General Liability Insurance:
 - ◆ \$2,000,000 General aggregate (applicable to each Project)
 - ◆ \$2,000,000 Products-completed operations aggregate
 - ◆ \$1,000,000 Personal injury liability
 - ◆ \$1,000,000 Each occurrence
2. Business Automobile Liability Insurance:
 - ◆ \$1,000,000 Each occurrence
3. Worker's Compensation And Employer's Liability Insurance:
 - ◆ (Including U.S. Long Shoreman and Harbor Worker's Act/Jones Act where applicable)
 - ◆ \$1,000,000 Each accident (bodily injury by accident)
 - ◆ \$1,000,000 Disease – Policy Limit (Bodily Injury by Disease)
 - ◆ \$1,000,000 Disease – Each Employee (Bodily Injury by Disease)
4. Umbrella Liability:
 - ◆ \$1,000,000 Each occurrence
 - ◆ \$1,000,000 Annual Aggregate

No insurer may cancel any policy in place as of the date this Agreement is executed without 30 days advance notice to Contractor.

SECTION 15. INDEMNITY AND OTHER REQUIREMENTS: To the fullest extent permitted by law, Subcontractor shall indemnify, defend, and hold harmless Contractor, the Owner, and each of their respective agents and employees (the "Indemnitees") from and against all claims for bodily injury and property damage that may arise from the performance of the Subcontract Work, including reasonable attorney's fees, costs, and expenses arising from the performance of the Work, to the extent caused by the negligence, recklessness or intentional wrongful conduct of the Subcontractor, Subcontractor's subcontractors or suppliers, or any other person or entity employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable.

The only exception to the Subcontractor's duties under this paragraph will be to the extent a particular claim is the result of the sole negligence of an Indemnitee, and in that event, the Subcontractor will not be obligated to indemnify the Indemnitee. The Subcontractor's duty to defend will be a separate and distinct obligation from the duty to indemnify the Indemnitees and is enforceable regardless of fault or negligence. The obligations stated under this paragraph shall survive all terminations of this Agreement.

In any and all claims against the Indemnitees by any employee or the Subcontractor, anyone directly or indirectly employed by the Subcontractor, or anyone whose acts the Subcontractor otherwise may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Subcontractor under worker's compensation acts, disability benefit acts, or other employee benefit acts.

SECTION 16. INDEPENDENT CONTRACTOR: The status of the Subcontractor shall be that of an independent contractor. Neither Subcontractor, Subcontractor's officers agents or employees, nor any other party hired to perform any portion of the Work shall be considered an employee of Contractor or be entitled to receive any employment-related benefits from Contractor or its benefit providers. Subcontractor shall be responsible for payment of all federal, state and local taxes associated with the compensation received pursuant to this Agreement and shall indemnify and hold Contractor harmless from any and all liability which Contractor may incur because of Subcontractor's failure to pay such taxes. Subcontractor shall be solely responsible for program development and operation. Subcontractor will be fully responsible for all acts and omissions of any subcontractor, supplier, any person directly or indirectly employed to perform any portion of the Work, and any perform for whose acts or omissions any of them may be liable to the same extent that Subcontractor is responsible for the acts and omissions of persons directly employed by it.

SECTION 17. PROJECT RECORDS: Subcontractor will maintain detailed records of all its Work for a minimum of six years following final completion of all Project Work. If the Project constitutes residential work, Subcontractor will maintain these records for a minimum of nine years. Subcontractor will allow Contractor prompt access to all Project records.

SECTION 18. THIRD PARTY BENEFICIARY: Subcontractor may only execute contracts with third parties to perform portions of the Work if its subcontractors and suppliers are bound by the terms of this Agreement. Subcontractor shall ensure that Contractor is a third-party beneficiary of any contract executed between Subcontractor and any such third-party, but this Agreement is not intended to confer any rights or remedies of any nature upon any person other than the parties. Contractor expressly reserves its ability to bring a civil action and to obtain relief against any third-party performing work for Subcontractor.

SECTION 19. ASSIGNMENTS: The Subcontractor shall not assign or sublet this Agreement or any part thereof without written consent of the Contractor.

SECTION 20. ASSIGNMENT OF FUNDS: The Subcontractor shall not assign, or attempt to assign, in any manner, at any time, funds accrued or to accrue under this subcontract, without written consent of the Contractor. And no such assignment shall be binding on the Contractor unless and until accepted in writing by the Contractor.

SECTION 21. RULINGS: It is agreed that the Subcontractor shall be bound by the rulings and decisions of the Owner to the same extent and degree that the Contractor is bound by said rulings and decisions insofar as they may pertain to the Work included within this Subcontract Agreement.

SECTION 22. BOND: If so stated under Section 2 above, the Subcontractor further agrees to provide the Contractor with payment and performance bonds that satisfy all requirements of Arizona Revised Statutes, Title 34, as if Subcontractor were performing the Work directly for a public entity. All bonds shall be provided to Contractor within ten (10) days from date of this subcontract.

SECTION 23. SCHEDULE OF VALUES: If Section 22 above is waived, the Subcontractor agrees to furnish the Contractor with a complete schedule of values, including a list of any parties it will contract with to perform any portion of the Work and suppliers of all material therefor Subcontractor intends to use during the performance of the Project, along with approximate respective dollar amounts. Subcontractor agrees to keep this list current at all times by advising Contractor immediately of any changes. Subcontractor shall provide Contractor with lien waivers from all its subcontractors and suppliers prior to the Subcontractor receiving each payment from Contractor; Subcontractor authorizes Contractor to contact Subcontractor's suppliers and subcontractors to obtain and verify account information pertaining to this Project.

SECTION 24. EQUAL EMPLOYMENT OPPORTUNITY: The Subcontractor will comply with all provisions of Paragraphs 1 through 6 of Section 301, of Executive Order No. 10925 of 6 March 1961, as amended by Executive Order No. 11114 of 22 June 1963. In conformance with Executive Order 11246 and as a performance standard and condition of contract compliance, the Subcontractor agrees to adopt, adhere to, and otherwise abide by and enforce an Equal Employment Opportunity and Anti-discrimination (EEO) Policy with respect to the recruitment, selection, employment and performance standards involving the Subcontractor's work force. The Subcontractor shall provide a copy of their policy statement and otherwise provide records to prove, and/or demonstrate, compliance with an EEO Policy as reasonably requested, as conditions of bid acceptance, contract performance and work completion. In the event the Subcontractor does not demonstrate, at the time of either bid submission or contract award, their own EEO Policy as described in the above and foregoing standard, then the Subcontractor agrees to modify in name and accept, adopt and implement as their own, the EEO Policy of KE&G, a copy of which is attached (See Attachment A) and incorporated into and made part of this contract as a requirement, by reference herein.

SECTION 25. RESPONSIBILITY FOR WORK: Subcontractor shall be responsible for all Work required of it under this Agreement, property and/or materials until completion and final acceptance of the Project by the Owner, and Subcontractor shall bear the risk of any loss or damage until such acceptance. In the event of loss or damage, Subcontractor shall proceed promptly to make repairs, or replacement of the damaged Work, property and/or materials at its own expense, as directed by the Contractor. Subcontractor waives all rights it might have against Owner and Contractor for loss or damage to Subcontractor's Work, property, or materials.

SUBCONTRACTOR'S INITIALS _____

DATE _____

SECTION 26. OPERATING INSTRUCTION AND WORK GUARANTEE: The Subcontractor shall furnish all operating instructions, parts lists, and manuals pertinent to requirements of the Prime Contract and shall guarantee all Work performed herein against defective material and/or workmanship for a period of one year from date of acceptance by the Owner of the completed contract, unless a longer period of guarantee is called for in writing or at law.

SECTION 27. HOISTING: Subcontractor shall not use Contractor's hoisting facilities without Contractor's written authority. Hoisting where requested and provided shall be maintained only on a scheduled basis at Contractor's sole convenience and Subcontractor's cost.

SECTION 28. SAFETY: Subcontractor shall maintain its own safety program in a manner and substance sufficient to protect Contractor and Owner from all claims arising out of Subcontractor's Work. Subcontractor shall be responsible for all safety requirements within the scope of its Work unless otherwise agreed to in writing between the parties. In performing any Work under this Agreement in or on the areas which are under the direct control of the Owner and or the Contractor, the Subcontractor shall; (a) conform to all safety regulations and requirements prescribed by the federal, county, city, and any other agency or the Contractor having cognizance of the Work being performed; (b) take such additional precautions as the Contractor and/or Owner may reasonably require for safety and accident prevention purposes. The Subcontractor agrees to take all reasonable steps and precautions to prevent accidents and preserve the life and health of Subcontractor's, Contractor's, and Owner's personnel performing or in any way in contact with the performance of this subcontract. Any violation of such rules and requirements, unless promptly corrected as directed by the Contractor and/or Owner shall be grounds for termination of this Agreement. Subcontractor's general indemnification obligations under this Agreement require Subcontractor to indemnify, defend, and hold harmless Contractor and Owner from all applicable safety requirements or violations within the scope of Subcontractor's Work.

SECTION 29. WAIVERS: Waivers of any breach hereof shall not constitute a waiver of any subsequent breach of the same or any other provision hereof.

SECTION 30. LAYOUT AND RESPONSIBILITY: The Contractor shall establish principal axis lines and levels whereupon the Subcontractor shall lay out and shall be strictly responsible for the accuracy of its Work and for any loss or damage to the Contractor or to other Subcontractors engaged in Work on the site by reason of failure of the undersigned Subcontractor to set out or perform correctly its Work. The Subcontractor shall exercise prudence so that actual final conditions and details shall result in perfect alignment of finish surfaces.

SECTION 31. HEADINGS: The section headings appearing in this subcontract are inserted as a matter of convenience only, and for reference purposes only, and are not intended to be a part of this subcontract, or in any way to define, limit or describe the scope and intent of the particular section to which they refer.

SECTION 32. ALTERNATIVE DISPUTE RESOLUTION: The parties agree that all claims, disputes and causes of action arising from or related to this Agreement, whether sounding in contract or in tort, shall first be subject to mediation and then arbitration. Unless the parties agree within ten (10) days of any notice of claim from one party to the other, the Mediator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court with mediation to occur in Tucson, Arizona. Any and all claims not resolved by mediation will be subject to arbitration. The Parties agree that a single arbitration may be conducted regarding all related Project disputes and require that its subcontractors and suppliers also agree. Unless the parties agree within twenty (20) days of the timely demand for arbitration, the Arbitrator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court. Arbitration will be conducted under A.R.S. §12-3001 et. seq. with arbitration to occur in Tucson, Arizona. The prevailing party at arbitration shall be awarded its reasonable attorneys' fees, costs of mediation, costs of arbitration, arbitration filing fees, fees of the mediator and arbitrator, and fees and costs of expert witness. The parties shall be entitled to reasonable discovery and to injunctive relief, which may be confirmed in the Superior Court even on a preliminary order. To the extent the Prime Contract contains alternative dispute resolution requirements which conflict with the requirements of this paragraph, they will govern.

SECTION 33. Subcontractor agrees to make no claim against Contractor for costs or damages resulting from delay in the performance of the subcontract, from any cause including but not limited to delay from or related to any act or omission of the Contractor or Owner or their agents. Subcontractor waives and releases any and all claims it ever had, now has, or may have in the future for direct and consequential damages against Contractor arising out of the Project and/or Subcontractor's Work. Unless Contractor recovers compensation for the delay from the Owner, Subcontractor agrees that an extension of time to complete performance of Work shall be Subcontractor's exclusive remedy; should Contractor recover compensation from Owner for any delay, Subcontractor agrees that any claim for compensation is limited to an equitable share of the recovery. As examples and not as limitation, Subcontractor shall not be entitled to damages, costs, or payment of money from Contractor and waives any right to make any claims against Contractor for additional compensation or any costs or losses arising from or related to delayed performance of Subcontractor's Work, including but not limited to, changes in the Work, design defects, delay in obtaining approvals or testing, failure of Owner to make payment, any act, neglect, default or failure of performance by Contractor or other Subcontractors or suppliers, delay in obtaining title or possession of land or acquiring rights-of-way, failure to provide access, failure to furnish required materials, differing site conditions, Owner delay in obtaining financing, delay in obtaining permits, delays in scheduling or the coordination of the Work, or delay or breach the performance of any other conditions or terms required by the contract documents unless Contractor receives payment for such damages on behalf of Subcontractor. Subcontractor will fully cooperate with Contractor in connection with any claims raised by or against Owner. If Contractor recovers damages for delay on behalf of the Subcontractor, Subcontractor shall pay or reimburse Contractor all costs and fees, including attorneys' fees and expert witness fees, incurred by Contractor in obtaining the additional compensation; payment to Subcontractor shall be less Contractor's charge of fifteen percent (15%) for overhead plus five percent (5%) for profit.

SUBCONTRACTOR'S INITIALS _____

DATE _____

KE&G Construction, Inc.
EQUAL OPPORTUNITY EMPLOYMENT POLICY

Date: January 1, 2007
To: All Employees, Job Applicants, Referral Agencies and EEO Compliance Officers
From: Office of the President
Subject: Equal Employment Opportunity Policy

As a reminder to all our employees, job applicants, referral agencies and authorized representatives from agencies of jurisdiction, KE&G has, at its core of management philosophy and practice, a policy of equal employment opportunity for all. KE&G does not discriminate against any job applicant, or employee, on the basis of race, color, religion, national origin, handicap, age or sex. We will continue to take affirmative action to insure that this policy is enforced consistently with regard to employment, upgrading, transfer, demotion, recruitment and recruitment advertising, layoff and termination, compensation, training and working conditions.

As an example of our enforcement efforts, KE&G summarizes our equal employment opportunity policy in our Employee Information Guide and other published information. KE&G refers to our equal employment opportunity policy in our recruitment advertising, job notices and bid submissions when and to the extent this reference is applicable and appropriate.

KE&G continues to make it understood by the employment entities with whom we deal, and in our employment opportunity announcements that the foregoing is our policy, and that job applicants and employees will continue to be compensated, trained, advanced, demoted, terminated, hired and transferred solely on the basis of their skill, devotion, loyalty, honesty, reliability and integrity; particularly, as these factors relate to the employee's ability to meet reasonable and expected job standards.

All employees of KE&G are requested to encourage minorities, women, Veterans of the Vietnam Era and qualified handicapped persons to make application for employment with the company or to apply for training in an approved On-the-Job Training or Apprenticeship program. KE&G continues to publish in its Employee Information Guide and in other publication our company's commitment to providing reasonable accommodations for qualified individuals with a known handicap.

It is the policy of KE&G that all facilities, property and company activities are non-segregated, except where toilet, bathroom and necessary changing facilities are appropriately provided to assure privacy between the sexes.

KE&G continues to enforce its policy against sexual or other illegal, harassment or discrimination at work. This policy is also enforced in work-related activity or capacity. It is our company's policy to maintain a work environment free of harassment, intimidation and coercion in all areas, locations, and condition of employment and work assignment. KE&G takes this policy seriously, and all complaints, concerns or inquiries are taken seriously and investigated. Any complaint, concern, issue or inquiry pertaining to this policy, its violation, or enforcement, should be immediately called to the attention of the supervisor, the Project Manager, or the Office of the Controller, as may be appropriate.

For further information, or to make a complaint, raise an issue, or voice a concern, please contact KE&G's designated Equal Employment Opportunity Officer at 5100 S. ALVERNON WAY, TUCSON, AZ 85706. Phone (520) 748-0188 Fax (520) 748-8975.

SUBCONTRACTOR'S INITIALS _____

DATE _____

Project Schedule:

SUBCONTRACTOR'S INITIALS _____

DATE: _____

To All Subcontractors,

All of our lien waivers and supplier releases need to be notarized.

If anyone other than an officer of your company is sent to pick up a check, a letter of authorization signed by an officer of your company and notarized on your company letterhead must be presented. We have included an example of an authorization letter for your convenience. This letter will be kept on file for future reference.

Thank you for your cooperation in this matter. Should you have any questions please contact our Lien Officer at (520) 748-0188.

INFORMATION SHEET

COMPANY NAME

ADDRESS

CITY

STATE

ZIP

(_____) _____

PHONE

CHECK ONE: INDIVIDUAL
 LIMITED PARTNERSHIP
 STATE OF INCORPORATION

PARTNERSHIP
 CORPORATION
 OTHER _____

TYPE OF BUSINESS

YEARS IN BUSINESS

SUBCONTRACTORS LICENSE NUMBER(S)

INSURANCE CARRIER

FEDERAL ID NUMBER

STATE TAX NUMBER

PRINCIPALS:

NAME

POSITION

NAME

POSITION

NAME

POSITION

NAME

POSITION

Barbara Valdez

From: protrenching@gmail.com on behalf of Pro Trenching <rod@protrenching.com>
Sent: Friday, August 07, 2015 12:03 PM
To: Barbara Valdez
Cc: Brian Janski
Subject: Re: CMAR 22nd St Sewer Augmentation Bid Packages
Attachments: 22nd St Sewer Augmentation - KE&G.pdf

Hi Barbara,

Here is the Pro Trenching bid for the 22nd Street Sewer Augmentation. Let us know if you have any questions.

Thanks,

Karen Bauer
Office Manager
for
Rod Jurado

On Mon, Aug 3, 2015 at 2:41 PM, Barbara Valdez <bvaldez@kegtus.com> wrote:

Please attached bid package for CMAR 22nd St. Sewer Augmentation. If you have any questions contact Brian Janski at bjanski@kegtus.com .

Bids are due to me by Friday August 7, 2015, 3:00 PM

Regards,

Barbara

Barbara Valdez, Office Engineer

KE&G Construction, Inc.

5100 S. Alvemom

Tucson, AZ, 85706

(520) 748-0188 W

(520) 748-8975 F

(520) 940-8424 C

--
P R O
TRENCHING

"We Lay Asphalt"

SBE/DBE/MBE CERTIFIED CONTRACTOR
Serving Tucson for over 20 years

PO Box 37110
Tucson, AZ 85740

Phone: 520.690.9833
Fax: 520.690.9834
Mobile: 520.631.3457

Licensed - Bonded - Insured
License # ROC194460 / ROC194461
ROC189841 / ROC231333

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: PRO TRENCHING, LLC
PO BOX 37110
TUCSON, AZ 85740

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
3.00	930 TON	Aggregate Base (5" Thickness)	\$ <u>49.41</u>	\$ <u>45,951.30</u>
4.00	3,647 SY	Asphalt Trench Patching	\$ <u>59.887</u>	\$ <u>218,407.89</u>
TOTAL BASE BID				\$ <u>264,359.19</u>

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: [Signature]

Printed Name: Rob Juarez Date: 8-7-2015

PRO TRENCHING

PO Box 37110
Tucson, AZ 85740
(520) 690-9833 (520) 690-9834 fax
mobile (520) 631-3457

email: rod@protrenching.com
www.protrenching.com

"We Lay Asphalt"

Serving Tucson for over 21 years

SBE/MBE CERTIFIED CONTRACTOR

Licensed - Bonded - Insured

License # ROC194460 / ROC194461 / ROC189841 / ROC231333

08/07/15

KE& G Construction

Attn: Barbara Valdez

Phone: W. 748.0188, C 940.8424

Email: bvaldez@kegtus.com

Reference: RWRD 22nd Street Sewer Augmentation, project 322AS5 - Asphalt Trench Patching

Pro Trenching would like to propose the following:

Item No.	Qty & Unit	Description	Unit Price	Extended Price
3.00	930 ton	Aggregate Base(5" Thickness)	\$49.41	\$45,951.30
4.00	3647 SY	Asphalt Trench Patching	\$59.887	\$218,407.89
		Total Base Bid		\$264,359.19

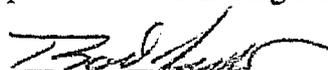
This proposal is quoted per MRRA guidelines and is not taxable. If project doesn't fall within the MRRA guidelines please notify us and proposal will be revised.

Price doesn't include permits, surveying, meters, saw cutting, compaction test, traffic control, hard digging, prevailing wage, or additional insured insurance costs.

Note: Prices may increase due to rising material costs.

Pro Trenching is not responsible for hitting any unmarked utilities.

A payment of _____ is due to start the job with the balance due upon completion. A finance charge of eighteen percent per month will be added to any past due balance over 30 days. Purchaser agrees to pay collection costs, including attorney fees, filing fees and court costs. The undersigned will provide a personal guarantee payment according to the contract which binds him/her to pay on demand any sum which is due Pro Trenching. Please sign below to accept contract and fax back to us at (520) 690-9834. This signed copy by both parties constitutes a legal contract. Feel free to call with any additional questions.


Rod Jurado

_____ Date

Barbara Valdez

_____ Date

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: KE&G Construction Inc.
5100 S Alvernon Way
Tucson, AZ 85706

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

<u>ITEM NO.</u>	<u>QUANTITY AND UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
3.00	930 TON	Aggregate Base (5" Thickness)	\$ <u>36.49</u>	\$ <u>33,935.70</u>
4.00	3,647 SY	Asphalt Trench Patching	\$ <u>53.90</u>	\$ <u>196,573.30</u>
			TOTAL BASE BID	\$ <u>230,509.00</u>

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

<u>ADDENDUM NUMBER</u>	<u>BY (NAME OF BIDDER'S PERSONNEL)</u>	<u>DATE</u>	<u>ADDENDUM NUMBER</u>	<u>BY (NAME OF BIDDER'S PERSONNEL)</u>	<u>DATE</u>

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: Jesse Grinsteiner

Printed Name: Jesse Grinsteiner Date: 8/7/15

Barbara Valdez

From: Allen Sheppard <allen@tucsonasphalt.com>
Sent: Friday, August 07, 2015 1:44 PM
To: Barbara Valdez
Subject: 22nd St Sewer Proposal
Attachments: Tucson Asphalt Proposal.pdf

Barbara,

Our proposal is attached.

Allen Sheppard
Chief Estimator / Sales Division Manager
Tucson Asphalt Contractors, Inc.
O: 520-292-1125
C: 520-990-9254



www.tucsonasphalt.com

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: Tucson Asphalt Contractors, Inc
2425 W. Curtis Rd
Tucson, AZ 85705

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
3.00	930 TON	Aggregate Base (5" Thickness)	\$ <u>61³⁰</u>	\$ <u>57,009.⁰⁰</u>
4.00	3,647 SY	Asphalt Trench Patching	\$ <u>63⁰⁰</u>	\$ <u>229,761.⁰⁰</u>
			TOTAL BASE BID	\$ <u>286,770.⁰⁰</u>

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: Allen Sheppard

Printed Name: Allen Sheppard Date: 08/07/15



TUCSON ASPHALT CONTRACTORS inc.

EQUIPMENT
WORLD contractor of the year

Marvin M Black Award Winner
Certified S.B.E.

August 07, 2015

Proposal #13-0781

KE&G
5100 S. Alvernon Way
Tucson, AZ 85706

To: Barbara Valdez
Phone: 520-748-0188
Email: bvaldez@kegtus.com

Reference: Pima County – PCRWRD
22nd Street Sewer Improvements
Tucson, AZ

Barbara,

Tucson Asphalt is pleased to provide the following pricing relating to the above project and your invitation to bid.

Item No.	Description	Quantity	U of M	Unit Price	Total
3	Aggregate Base (5")	930	Ton	\$61.30	\$57,009.00
4	Asphalt Trench Patching	3,647	SY	\$63.00	\$229,761.00
				Sub-Total	\$286,770.00
				Sales Tax	Excluded
				Total	\$286,770.00

The following items are included with this proposal:

1. Acknowledge zero (0) addendums.
2. All labor, equipment, and materials required to perform the above scope of work as detailed and clarified below.
3. Quantities are supplied for reference only. Final payment will be based upon field quantities measured and agreed to between Tucson Asphalt and owners representatives and multiplied at the applicable unit price.

The following items are excluded from this scope of work.

1. Engineering, permits, design fees, survey, testing, inspections and quality control.
2. Cost of bonds (payment and performance) (1%).
3. Toilet facilities to be provided and maintained by general contractor/owner.
4. Tucson Asphalt has excluded any "Self Insured Retention" costs from this proposal. No adjustment in pricing has been included for projects that contain an OCIP, CCIP, or "wrap" type of group insurance coverage.
5. Textura or similar payment management fees.
6. This proposal remains valid for a minimum of 60 calendar days from dated indicated above.

7. Traffic control, law enforcement officers are excluded.
8. Davis-Bacon wage rates are excluded.
9. Night time and weekend work is excluded.
10. Any and all items not specifically proposed and included in the above quoted items of work.

Clarifications:

- Saw cutting of existing asphalt is by others.
- Trench patching includes both new 12" mainline and approx. 13 HCS's.
- We have based pricing on being able to fully complete items 3 and 4 per each mobilization for a maximum trench length of 500 LF. We have included 3 additional mobilizations allowing for the Alvernon, Columbus and Swan intersections to be completed in halves. A maximum of 16 each mobilization's are included in applicable pricing. Additional mobilization's shall result in a \$1,500 per each charge.

Thank you for the opportunity to provide pricing on the above project. Please feel free to call me should you require any additional assistance.

Sincerely;
Tucson Asphalt Contractors, Inc.



Allen Sheppard
Chief Estimator / Division Sales Manager
C: 520-990-9254



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

July 30, 2015

Interested Parties,

KE&G Construction, Inc. is soliciting quotations as the Construction Manager At Risk under the contract from Pima County for the construction of the RWRD project 22nd Street Sewer Augmentation Project No. 322AS5. This contract is for the installation of approximately 5,492 linear feet of new 12 inch PVC sewer and necessary appurtenances. The estimated start date for construction is October 01, 2015 and shall be completed no later than November 25, 2015. Please note in your bid package the project schedule as it applies to your specific bid package. Included as part of the work necessary for construction are the following scopes of work:

- 30 inch Jack & Bore
- New Manhole Installation
- Asphalt Saw Cutting
- Concrete Curbing / Sidewalk Replacement
- Pavement Trench Patching
- Trucking / Hauling
- Bypass Pumping

Bids are due on **Friday, August 7th at 3:00 PM**. Please note that late bids will not be accepted. Bids will be accepted via mail, fax, or email. Send questions via email to Brian Janski at bjanski@kegtus.com.

Please submit bids to:

KE&G Construction, Inc.
5100 S Alvernon Way
Tucson, AZ 85706
Fax: 520-748-8975
bvaldez@kegtus.com

Attached you will find the project plans, bid sheet (if applicable), project plan overview, construction schedule, and draft subcontract agreement. Please note the subcontract requirements which will need to be met without exception.

KE&G Construction, Inc.

Barbara Valdez
Office Engineer

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: _____

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
5.16	193 LF	12" Cured In Place Pipe	\$ _____	\$ _____
5.71	422 LF	10" Cured In Place Pipe	\$ _____	\$ _____
5.01	1 LS	Mobilization	\$ _____	\$ _____
TOTAL BASE BID				\$ _____

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: _____

Printed Name: _____ Date: _____

5.71 – Cured In Place Pipe (CIPP)

DESCRIPTION:

All CIPP activities will be in conformance with the Pima County Regional Wastewater Reclamation Department Standard Specifications and Details for Construction 2012 edition.

PROJECT INFORMATION AND PHASING:

This project will be linear in nature. The subcontractor will be responsible for providing and installing the CIPP and reinstating house connection services (HCS's). CIPP activities are anticipated to be performed at night between 7 PM and 5 AM. Subcontractor is required to work within the contractors existing traffic control which will provide a minimum of two travel lanes in each direction at all arterial streets between the hours of 6:00 AM and 6:00 PM.

CIPP MATERIALS AND TESTING:

All work related to the CIPP on this project shall be in strict compliance with the Pima County Regional Wastewater Reclamation Department Standard Specifications and Details for Construction 2012 edition. Defects discovered in the CIPP shall be corrected at the cost of the subcontractor.

METHOD OF MEASUREMENT

CIPP will be measured by the linear foot (LF) for the footage of CIPP installed as noted in the bidding schedule.

BASIS OF PAYMENT

The accepted quantity of CIPP, measured as provided above, will be paid for under the appropriate bid items at the contract unit price complete-in-place.



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

Date

Name
Company
Address
City, ST Zip

Re: Job Name Job #

Dear _____,

We are enclosing **Subcontract Agreement No. -S** for the work in connection with the above referenced project. Please execute the two copies of this Subcontract Agreement and return them to our office via regular mail or please print out one copy, execute, scan and return via email to:

KE&G Construction, Inc.
Attn:
5100 S. Alvernon Way
Tucson, AZ 85706

A fully executed copy will be returned for your files.

The Certificates of Insurance required in the attached subcontract must accompany the signed Subcontract Agreement and must indicate that they are in force, prior to the start of any work by your forces on this project. Please reference "Any and All Projects" on your insurance certificate, or reference the job number above on all certificates. If your company maintains an "Any and All Projects" certificate, a (project specific) certificate is not required.

No work is to begin on this project until the fully executed Subcontract Agreement, properly completed insurance certificates, and properly executed bonds (if required) are received by KE&G's Tucson office, as noted above.

Do not make any modifications to this Subcontract Agreement. Please notify me to discuss and coordinate any contract changes. Changes to this Subcontract Agreement will not be valid unless modified by written amendment.

For billing purposes, when invoices are submitted for partial payments under Section 5 of this Subcontract, please state on each invoice for each item of work, the current amount billed, as well as the total amount billed to date. In addition, please note **Job No.** on all invoices.

If you have any questions, please do not hesitate to call.

Regards,
KE&G Construction, Inc.

KE&G Project Coordinator Name
Job Title

cc: File .3.20

SUBCONTRACT AGREEMENT

KE&G Construction, Inc.
 5100 South Alvernon Way
 Tucson, Arizona 85706 Office:
 (520) 748-0188 Fax: (520)
 748-8975

SUBCONTRACTOR: _____
 ADDRESS: _____
 PROJECT TITLE: _____

SUBCONTRACT NUMBER: _____-\$
 KE&G JOB NUMBER: _____
 PRIME CONTRACT NO.: _____

THIS AGREEMENT (the "Agreement") is entered into this 06 day of September, 2013, by and between _____ (the "Subcontractor"), and **KE&G CONSTRUCTION, INC.** (the "Contractor"), **WITNESSETH:**

SECTION 1. THE PROJECT: Contractor has been hired by _____ (the "Owner") to construct _____ (the "Project") in accordance with the terms and provisions of the Prime Contract No. _____ between the Owner and the Contractor, dated _____ (the "Prime Contract"), including all the general and special conditions, provisions, drawings, specifications, addenda numbers _____, and all other documents and revisions to date, as prepared by _____, forming or by reference made a part of the Prime Contract between the Contractor and Owner, and with particular reference to the below-listed technical and/or other sections or parts of the contract documents, all of which shall be considered part of this subcontract by reference thereto and they are as fully a part of this subcontract agreement as if hereto attached or the terms herein repeated, and the Subcontractor agrees to bind and obligate himself, in the performance of this subcontract, to the Contractor by the same terms, conditions, undertakings, and obligations that the Contractor is bound and obligated to the Owner by the Prime Contract insofar as the terms thereof shall not be in conflict with the terms hereof. Copies of said Prime Contract are on file in the office of the Contractor for Subcontractor's review, although Contractor may redact pricing information and other provisions from the Prime Contract as it deems reasonably necessary.

SECTION 2. SCOPE OF WORK: The Subcontractor agrees to furnish all labor, materials, tools, equipment, supplies, and supervision necessary or incidental to complete Work on the Project as follows:

Together with all authorized changes, this description as clarified by Project plans and specifications constitutes Subcontractor's "Work." When the Subcontractor does not install all material furnished under the subcontract, such material as is not installed is to be delivered F.O.B to the jobsite. The Parties each agree to proceed with the Project and the Work in good faith and in fair dealing. Each Party agrees to promote cooperation between the Parties and all other parties performing Work on the Project.

SECTION 3. SUBMITTALS: _____ copies of complete detailed shop drawings, lists and brochures for architect and/or engineer approval shall be submitted through Contractor office within _____ days of the date of this Agreement, as well as required material samples and color selections. ALL DRAWINGS REQUIRED OF THE SUBCONTRACTOR MUST BE SUBMITTED FOR APPROVAL OF THE ARCHITECT/ENGINEER THROUGH THE CONTRACTOR'S OFFICE.

SECTION 4. TIME OF PERFORMANCE: Time is of the essence in Subcontractor's performance of the Work. The Subcontractor shall furnish materials and prosecute the Work at the times herein provided for and otherwise in a prompt, diligent and expeditious manner and so as to promote the general progress of the entire construction and shall not, by delay or otherwise, interfere with or hinder the work of the Contractor or any other subcontractor. The Subcontractor agrees to keep itself informed as to the progress of the Project and to faithfully prosecute his Work, and several parts thereof, at such times and in such order as the Contractor considers necessary to keep the same sufficiently in advance of the other parts of the Project and to avoid any delay in the completion of the construction as a whole. The scheduled TIME OF PERFORMANCE OF THE WORK FORMING A PART OF THIS SUBCONTRACT IS IN ACCORDANCE WITH CONTRACTOR'S SCHEDULE IN ATTACHMENT "B".

SECTION 5. PAYMENTS: The Contractor agrees to pay the Subcontractor for material furnished and/or Work to be performed herein and performance of the subcontract as otherwise provided for herein the sum of _____ dollars, \$_____, subject to additions and deductions for changes as may be agreed upon, or determined, as provided herein and subject to adjustments from quantity of Work performed at unit prices set forth under section 2 above. The aforementioned sum includes all taxes of any nature whatsoever that may be assessed against or incurred by the Subcontractor in performance of its Work. Partial payments less a retained percentage of _____% will be made to the Subcontractor, provided the Subcontractor has submitted its payment request to the Contractor's office on or before the _____ day of each month, at the unit price set forth in Section 2 for Work and material incorporated into the construction and/or materials delivered to the site of the Work as estimated by the Owner's architect/engineer, less the aggregate of previous payments, providing payment for such Work and material has been approved by the Owner and payment has been received from the Owner by the Contractor, and upon complete performance of this subcontract and approval and acceptance of the Subcontractor's Work and material by the architect/engineer, the Contractor shall make final payment to the Subcontractor of the balance due to him within _____ days after Contractor receives final payment from Owner. No payment on account shall be considered as an approval and/or acceptance of Work done or materials furnished, or any part thereof. The Subcontractor agrees the monies shall not be diverted to satisfy obligation of the Subcontractor on other contracts and the Subcontractor agrees to furnish proof of same upon written request of the Contractor. Contractor may issue joint checks payable to Subcontractor and its subcontractors and/or suppliers.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE EXECUTED THIS AGREEMENT by their proper officers duly authorized herein.

CONTRACTOR: **KE&G CONSTRUCTION, INC.**

SUBCONTRACTOR:

Signature _____ Date _____

Signature _____ Date _____

Print Name _____ Title _____

Print Name _____ Title _____

AZ Contractors License Numbers: ROC 227962; ROC 227963

AZ License # _____ SS#/FEIN _____

SECTION 6. DELAY DAMAGES: The Prime Contract contains a liquidated damages clause in the amount of _____. Should the Subcontractor default in the proper performance of its Work, thereby resulting in delay, then Subcontractor shall be liable to Contractor for any and all loss and damages, including but not limited to liquidated damages assessed against the Contractor, extended general conditions, and Contractor's lost or foregone overhead and profit.

SECTION 7. SCHEDULES: Subcontractor shall perform its Work in accord with the Project schedule to be prepared by Contractor, which schedule shall be attached to this Agreement as Exhibit A upon its preparation. Subcontractor agrees to fully cooperate with the Contractor in maintaining and complying with Contractor's Project schedule. Upon request by the Contractor, the Subcontractor shall furnish the Contractor in writing appropriate information concerning its progress on the Work, including a progress schedule. Subcontractor's information and schedule will show in detail if required in Contractor's sole discretion the procurement, shop drawing, fabrication, delivery and installation activities of all the major components of Work. Subcontractor agrees to meet and keep this schedule and to apprise the Contractor monthly of its schedule progress, which term is a material condition of this Agreement. Subcontractor will adjust its performance schedule and pay all costs necessary to meet the Project schedule.

SECTION 8. EXTENSION OF TIME: No allowance of an extension of time, for any cause whatsoever, shall be claimed by the Subcontractor or be made to him, unless the Contractor and Subcontractor have agreed in writing upon the allowance of additional time to be made, the agreement for which must arise out of Subcontractor's written request for such extension made within forty eight hours after the cause of such extension occurred. No allowance of an extension of time shall, in any event be made to the Subcontractor, for delay by the Subcontractor in preparing submittals, or in securing approval of the architect or engineer thereon, when such submittals are not properly prepared, or when the Subcontractor, by the exercise of reasonable diligence and judgment, could have anticipated and avoided the delay.

SECTION 9. CLEANUP: Subcontractor will at all times maintain the site, all staging areas, and all surrounding sites free of debris and waste caused by its operations performed pursuant to this Agreement. Subcontractor shall not be held responsible for such site conditions caused by others, but Contractor may assess Subcontractor and offset any costs it incurs for removal of waste caused by Subcontractor's operations.

SECTION 10. WITHHOLDING OF FUNDS: The Contractor may deduct from any amounts otherwise due or to become due to the Subcontractor any sum or sums owing by the Subcontractor to the Contractor whether from a previously-approved pay application or all or a portion of a rejected pay application in an amount the Contractor determines to be sufficient to protect Contractor from loss or damage for which the Contractor may be liable. Contractor may reduce any payment to Subcontractor to offset or recoup any liability Subcontractor has to Contractor under this Agreement, including damage or loss Contractor incurs due to Subcontractor's failure to perform the Work in accord with all terms and conditions of this Agreement. Contractor is not liable for interest or other penalty for any amount withheld from a progress or final payment under this paragraph.

SECTION 11. CHANGES: The Owner or the Contractor may request changes in or to the timing or sequence of Subcontractor's Work, which changes may impact the pricing or time requirements of this Agreement. All changes in the Subcontractor's Work that affect the Subcontract value or time shall be formalized in a Change Order. In the absence of an agreement on the terms of Subcontractor's performance of the change, the Contractor may issue a written order directing Subcontractor to make changes in materials to be furnished or Work to be performed under this Agreement or additions thereto or omissions therefrom so long as the directed changes generally are of the type or character already within Subcontractor's Work. Upon receipt of any such directive, the Subcontractor shall not stop or suspend its performance but shall diligently perform the Work as changed regardless of whether the Contractor and Subcontractor are able to agree whether or to the extent the changes have any effect on the price or time requirements of this Agreement. Subcontractor must submit its costs for changes not reflected in a formal Change Order beginning with its next regularly-scheduled pay application. If there is a dispute as to the cost of the change, the Contractor shall pay Subcontractor 50% of its estimated cost to perform the change as it becomes due pursuant to Section 5, with each party reserving its right as to all amounts in dispute. Subcontractor expressly acknowledges that the Contractor may be damaged for Subcontractor's failure to timely perform changes to the Work as directed, including disputed changes.

SECTION 12. EARLY TERMINATION OF WORK: In the event the Owner by any reason suspends or terminates the construction of the Project or any portion thereof, the Subcontractor shall be entitled to payment for the Work done up to the time of such suspension or cancellation.

SECTION 13. FAILURE TO PERFORM: In the event the Subcontractor fails to comply with the provisions herein for any reason as to the character of the Work and time of performance, refuses to proceed with the Work as directed by the Contractor, or fails to perform said Work in accordance with Project plans and specifications, in whole or in part, or fails to perform any term, covenant or condition contained in this Agreement, then the Contractor may, at the Contractor's option and upon twenty-four (24) hours written notice and without prejudice to any other right or remedy, take any steps the Contractor deems expedient to finish the Work and pay any claims. If the unpaid balance of the Agreement exceeds the expense of finishing the Work or if Contractor experiences damages for the delayed completion of Subcontractor's Work, then Subcontractor shall pay all damages for delay Contractor assesses or other damages and expenses Contractor incurs, including any reasonable overhead and profit Contractor assesses. Contractor, by entering into this Agreement, does not waive any tort remedies, including those solely involving economic loss, it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise. Contractor expressly preserves any tort claims, remedies, and damages it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise.

SECTION 14. INSURANCE: THE SUBCONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING THE PERFORMANCE OF THIS SUBCONTRACT THE FOLLOWING:

- 1) Carrier (insurance company) shall be rated A-VII or better by A.M. Best AND authorized to do business in the State of Arizona.
- 2) All policies shall be an occurrence basis form. "Claims made" policies are NOT acceptable.
- 3) Certificate may cover multiple jobs if it states "All Operations" and conforms to all applicable requirements listed herein.
- 4) Waivers of subrogation - Subcontractor will waive any subrogation rights it may have falling within the following categories of possible Project liability or insurance: worker's compensation, general liability, automobile liability, Contractor's equipment and any builder's risk/installation floater.
- 5) Auto liability covering owned, hired, and non-owned vehicles. Auto policy shall include KE & G Construction, Inc., the owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insureds.
- 6) If Subcontractor's insurance is considered inadequate, it shall pay any additional premium required by its carrier to obtain the minimum coverage required under this Agreement.
- 7) Umbrella Liability Insurance: KE&G Construction, Inc., the Owner, their respective directors, officers, employees, members, agents and others are also additional insureds.

ALL CERTIFICATES SHALL INCLUDE:

- 1) Separate endorsement (attached to Insurance Certificate) for liability insurance only:
 - * Additional Insured. To the fullest extent permitted by law, General Liability and Excess Liability shall include Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insured(s) providing "Your Work" coverage (including both On-Going and Completed Operations coverage) arising out of work performed for the Contractor by the Subcontractor. Additional insured status for the Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract shall extend from the date of commencement of the work under the project until the expiration of the period established in the applicable state's statute of repose.
 - ◆ Aggregate Limits of Insurance (per Project). Each work order under a master contract is considered a separate project.
 - ◆ Primary Insurance. The Subcontractor's policy shall contain an endorsement making its policy primary and coverage maintained by KE&G Construction, Inc., the Owner and others as required by contract excess and non-contributing, either via language added to the additional insured endorsement or by a separate endorsement.
 - ◆ No limiting endorsements permitted for a required coverage.

The acceptance of an incorrect certificate by KE&G or its failure to obtain any certificate from Subcontractor does NOT waive the Subcontractor's obligations to comply with all insurance requirements of this Agreement.

MINIMUM POLICY LIMITS: (Does not limit your liability or obligation to indemnify, hold harmless and defend KE&G Construction, Inc., the Owner or others as required under the contract documents.) If you have or obtain insurance coverage in amounts in excess of those listed below, such additional insurance coverage shall also apply to the benefit of the Indemnitees/additional insured.

SUBCONTRACTOR'S INITIALS _____

DATE _____

1. Commercial General Liability Insurance:
 - ◆ \$2,000,000 General aggregate (applicable to each Project)
 - ◆ \$2,000,000 Products-completed operations aggregate
 - ◆ \$1,000,000 Personal injury liability
 - ◆ \$1,000,000 Each occurrence
2. Business Automobile Liability Insurance:
 - ◆ \$1,000,000 Each occurrence
3. Worker's Compensation And Employer's Liability Insurance:
 - ◆ (Including U.S. Long Shoreman and Harbor Worker's Act/Jones Act where applicable)
 - ◆ \$1,000,000 Each accident (bodily injury by accident)
 - ◆ \$1,000,000 Disease – Policy Limit (Bodily Injury by Disease)
 - ◆ \$1,000,000 Disease – Each Employee (Bodily Injury by Disease)
4. Umbrella Liability:
 - ◆ \$1,000,000 Each occurrence
 - ◆ \$1,000,000 Annual Aggregate

No insurer may cancel any policy in place as of the date this Agreement is executed without 30 days advance notice to Contractor.

SECTION 15. INDEMNITY AND OTHER REQUIREMENTS: To the fullest extent permitted by law, Subcontractor shall indemnify, defend, and hold harmless Contractor, the Owner, and each of their respective agents and employees (the "Indemnitees") from and against all claims for bodily injury and property damage that may arise from the performance of the Subcontract Work, including reasonable attorney's fees, costs, and expenses arising from the performance of the Work, to the extent caused by the negligence, recklessness or intentional wrongful conduct of the Subcontractor, Subcontractor's subcontractors or suppliers, or any other person or entity employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable.

The only exception to the Subcontractor's duties under this paragraph will be to the extent a particular claim is the result of the sole negligence of an Indemnitee, and in that event, the Subcontractor will not be obligated to indemnify the Indemnitee. The Subcontractor's duty to defend will be a separate and distinct obligation from the duty to indemnify the Indemnitees and is enforceable regardless of fault or negligence. The obligations stated under this paragraph shall survive all terminations of this Agreement.

In any and all claims against the Indemnitees by any employee or the Subcontractor, anyone directly or indirectly employed by the Subcontractor, or anyone whose acts the Subcontractor otherwise may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Subcontractor under worker's compensation acts, disability benefit acts, or other employee benefit acts.

SECTION 16. INDEPENDENT CONTRACTOR: The status of the Subcontractor shall be that of an independent contractor. Neither Subcontractor, Subcontractor's officers agents or employees, nor any other party hired to perform any portion of the Work shall be considered an employee of Contractor or be entitled to receive any employment-related benefits from Contractor or its benefit providers. Subcontractor shall be responsible for payment of all federal, state and local taxes associated with the compensation received pursuant to this Agreement and shall indemnify and hold Contractor harmless from any and all liability which Contractor may incur because of Subcontractor's failure to pay such taxes. Subcontractor shall be solely responsible for program development and operation. Subcontractor will be fully responsible for all acts and omissions of any subcontractor, supplier, any person directly or indirectly employed to perform any portion of the Work, and any perform for whose acts or omissions any of them may be liable to the same extent that Subcontractor is responsible for the acts and omissions of persons directly employed by it.

SECTION 17. PROJECT RECORDS: Subcontractor will maintain detailed records of all its Work for a minimum of six years following final completion of all Project Work. If the Project constitutes residential work, Subcontractor will maintain these records for a minimum of nine years. Subcontractor will allow Contractor prompt access to all Project records.

SECTION 18. THIRD PARTY BENEFICIARY: Subcontractor may only execute contracts with third parties to perform portions of the Work if its subcontractors and suppliers are bound by the terms of this Agreement. Subcontractor shall ensure that Contractor is a third-party beneficiary of any contract executed between Subcontractor and any such third-party, but this Agreement is not intended to confer any rights or remedies of any nature upon any person other than the parties. Contractor expressly reserves its ability to bring a civil action and to obtain relief against any third-party performing work for Subcontractor.

SECTION 19. ASSIGNMENTS: The Subcontractor shall not assign or sublet this Agreement or any part thereof without written consent of the Contractor.

SECTION 20. ASSIGNMENT OF FUNDS: The Subcontractor shall not assign, or attempt to assign, in any manner, at any time, funds accrued or to accrue under this subcontract, without written consent of the Contractor. And no such assignment shall be binding on the Contractor unless and until accepted in writing by the Contractor.

SECTION 21. RULINGS: It is agreed that the Subcontractor shall be bound by the rulings and decisions of the Owner to the same extent and degree that the Contractor is bound by said rulings and decisions insofar as they may pertain to the Work included within this Subcontract Agreement.

SECTION 22. BOND: If so stated under Section 2 above, the Subcontractor further agrees to provide the Contractor with payment and performance bonds that satisfy all requirements of Arizona Revised Statutes, Title 34, as if Subcontractor were performing the Work directly for a public entity. All bonds shall be provided to Contractor within ten (10) days from date of this subcontract

SECTION 23. SCHEDULE OF VALUES: If Section 22 above is waived, the Subcontractor agrees to furnish the Contractor with a complete schedule of values, including a list of any parties it will contract with to perform any portion of the Work and suppliers of all material therefor Subcontractor intends to use during the performance of the Project, along with approximate respective dollar amounts. Subcontractor agrees to keep this list current at all times by advising Contractor immediately of any changes. Subcontractor shall provide Contractor with lien waivers from all its subcontractors and suppliers prior to the Subcontractor receiving each payment from Contractor; Subcontractor authorizes Contractor to contact Subcontractor's suppliers and subcontractors to obtain and verify account information pertaining to this Project.

SECTION 24. EQUAL EMPLOYMENT OPPORTUNITY: The Subcontractor will comply with all provisions of Paragraphs 1 through 6 of Section 301, of Executive Order No. 10925 of 6 March 1961, as amended by Executive Order No. 11114 of 22 June 1963. In conformance with Executive Order 11246 and as a performance standard and condition of contract compliance, the Subcontractor agrees to adopt, adhere to, and otherwise abide by and enforce an Equal Employment Opportunity and Anti-discrimination (EEO) Policy with respect to the recruitment, selection, employment and performance standards involving the Subcontractor's work force. The Subcontractor shall provide a copy of their policy statement and otherwise provide records to prove, and/or demonstrate, compliance with an EEO Policy as reasonably requested, as conditions of bid acceptance, contract performance and work completion. In the event the Subcontractor does not demonstrate, at the time of either bid submission or contract award, their own EEO Policy as described in the above and foregoing standard, then the Subcontractor agrees to modify in name and accept, adopt and implement as their own, the EEO Policy of KE&G, a copy of which is attached (See Attachment A) and incorporated into and made part of this contract as a requirement, by reference herein.

SECTION 25. RESPONSIBILITY FOR WORK: Subcontractor shall be responsible for all Work required of it under this Agreement, property and/or materials until completion and final acceptance of the Project by the Owner, and Subcontractor shall bear the risk of any loss or damage until such acceptance. In the event of loss or damage, Subcontractor shall proceed promptly to make repairs, or replacement of the damaged Work, property and/or materials at its own expense, as directed by the Contractor. Subcontractor waives all rights it might have against Owner and Contractor for loss or damage to Subcontractor's Work, property, or materials.

SUBCONTRACTOR'S INITIALS _____

DATE _____

SECTION 26. OPERATING INSTRUCTION AND WORK GUARANTEE: The Subcontractor shall furnish all operating instructions, parts lists, and manuals pertinent to requirements of the Prime Contract and shall guarantee all Work performed herein against defective material and/or workmanship for a period of one year from date of acceptance by the Owner of the completed contract, unless a longer period of guarantee is called for in writing or at law.

SECTION 27. HOISTING: Subcontractor shall not use Contractor's hoisting facilities without Contractor's written authority. Hoisting where requested and provided shall be maintained only on a scheduled basis at Contractor's sole convenience and Subcontractor's cost.

SECTION 28. SAFETY: Subcontractor shall maintain its own safety program in a manner and substance sufficient to protect Contractor and Owner from all claims arising out of Subcontractor's Work. Subcontractor shall be responsible for all safety requirements within the scope of its Work unless otherwise agreed to in writing between the parties. In performing any Work under this Agreement in or on the areas which are under the direct control of the Owner and or the Contractor, the Subcontractor shall; (a) conform to all safety regulations and requirements prescribed by the federal, county, city, and any other agency or the Contractor having cognizance of the Work being performed; (b) take such additional precautions as the Contractor and/or Owner may reasonably require for safety and accident prevention purposes. The Subcontractor agrees to take all reasonable steps and precautions to prevent accidents and preserve the life and health of Subcontractor's, Contractor's, and Owner's personnel performing or in any way in contact with the performance of this subcontract. Any violation of such rules and requirements, unless promptly corrected as directed by the Contractor and/or Owner shall be grounds for termination of this Agreement. Subcontractor's general indemnification obligations under this Agreement require Subcontractor to indemnify, defend, and hold harmless Contractor and Owner from all applicable safety requirements or violations within the scope of Subcontractor's Work.

SECTION 29. WAIVERS: Waivers of any breach hereof shall not constitute a waiver of any subsequent breach of the same or any other provision hereof.

SECTION 30. LAYOUT AND RESPONSIBILITY: The Contractor shall establish principal axis lines and levels whereupon the Subcontractor shall lay out and shall be strictly responsible for the accuracy of its Work and for any loss or damage to the Contractor or to other Subcontractors engaged in Work on the site by reason of failure of the undersigned Subcontractor to set out or perform correctly its Work. The Subcontractor shall exercise prudence so that actual final conditions and details shall result in perfect alignment of finish surfaces.

SECTION 31. HEADINGS: The section headings appearing in this subcontract are inserted as a matter of convenience only, and for reference purposes only, and are not intended to be a part of this subcontract, or in any way to define, limit or describe the scope and intent of the particular section to which they refer.

SECTION 32. ALTERNATIVE DISPUTE RESOLUTION: The parties agree that all claims, disputes and causes of action arising from or related to this Agreement, whether sounding in contract or in tort, shall first be subject to mediation and then arbitration. Unless the parties agree within ten (10) days of any notice of claim from one party to the other, the Mediator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court with mediation to occur in Tucson, Arizona. Any and all claims not resolved by mediation will be subject to arbitration. The Parties agree that a single arbitration may be conducted regarding all related Project disputes and require that its subcontractors and suppliers also agree. Unless the parties agree within twenty (20) days of the timely demand for arbitration, the Arbitrator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court. Arbitration will be conducted under A.R.S. §12-3001 et. seq. with arbitration to occur in Tucson, Arizona. The prevailing party at arbitration shall be awarded its reasonable attorneys' fees, costs of mediation, costs of arbitration, arbitration filing fees, fees of the mediator and arbitrator, and fees and costs of expert witness. The parties shall be entitled to reasonable discovery and to injunctive relief, which may be confirmed in the Superior Court even on a preliminary order. To the extent the Prime Contract contains alternative dispute resolution requirements which conflict with the requirements of this paragraph, they will govern.

SECTION 33. Subcontractor agrees to make no claim against Contractor for costs or damages resulting from delay in the performance of the subcontract, from any cause including but not limited to delay from or related to any act or omission of the Contractor or Owner or their agents. Subcontractor waives and releases any and all claims it ever had, now has, or may have in the future for direct and consequential damages against Contractor arising out of the Project and/or Subcontractor's Work. Unless Contractor recovers compensation for the delay from the Owner, Subcontractor agrees that an extension of time to complete performance of Work shall be Subcontractor's exclusive remedy; should Contractor recover compensation from Owner for any delay, Subcontractor agrees that any claim for compensation is limited to an equitable share of the recovery. As examples and not as limitation, Subcontractor shall not be entitled to damages, costs, or payment of money from Contractor and waives any right to make any claims against Contractor for additional compensation or any costs or losses arising from or related to delayed performance of Subcontractor's Work, including but not limited to, changes in the Work, design defects, delay in obtaining required approvals or testing, failure of Owner to make payment, any act, neglect, default or failure of performance by Contractor or other Subcontractors or suppliers, delay in obtaining title or possession of land or acquiring rights-of-way, failure to provide access, failure to furnish required materials, differing site conditions, Owner delay in obtaining financing, delay in obtaining permits, delays in scheduling or the coordination of the Work, or delay or breach the performance of any other conditions or terms required by the contract documents unless Contractor receives payment for such damages on behalf of Subcontractor. Subcontractor will fully cooperate with Contractor in connection with any claims raised by or against Owner. If Contractor recovers damages for delay on behalf of the Subcontractor, Subcontractor shall pay or reimburse Contractor all costs and fees, including attorneys' fees and expert witness fees, incurred by Contractor in obtaining the additional compensation; payment to Subcontractor shall be less Contractor's charge of fifteen percent (15%) for overhead plus five percent (5%) for profit.

SUBCONTRACTOR'S INITIALS _____

DATE _____

KE&G Construction, Inc.
EQUAL OPPORTUNITY EMPLOYMENT POLICY

Date: January 1, 2007
 To: All Employees, Job Applicants, Referral Agencies and EEO Compliance Officers
 From: Office of the President
 Subject: Equal Employment Opportunity Policy

As a reminder to all our employees, job applicants, referral agencies and authorized representatives from agencies of jurisdiction, KE&G has, at its core of management philosophy and practice, a policy of equal employment opportunity for all. KE&G does not discriminate against any job applicant, or employee, on the basis of race, color, religion, national origin, handicap, age or sex. We will continue to take affirmative action to insure that this policy is enforced consistently with regard to employment, upgrading, transfer, demotion, recruitment and recruitment advertising, layoff and termination, compensation, training and working conditions.

As an example of our enforcement efforts, KE&G summarizes our equal employment opportunity policy in our Employee Information Guide and other published information. KE&G refers to our equal employment opportunity policy in our recruitment advertising, job notices and bid submissions when and to the extent this reference is applicable and appropriate.

KE&G continues to make it understood by the employment entities with whom we deal, and in our employment opportunity announcements that the foregoing is our policy, and that job applicants and employees will continue to be compensated, trained, advanced, demoted, terminated, hired and transferred solely on the basis of their skill, devotion, loyalty, honesty, reliability and integrity; particularly, as these factors relate to the employee's ability to meet reasonable and expected job standards.

All employees of KE&G are requested to encourage minorities, women, Veterans of the Vietnam Era and qualified handicapped persons to make application for employment with the company or to apply for training in an approved On-the-Job Training or Apprenticeship program. KE&G continues to publish in its Employee Information Guide and in other publication our company's commitment to providing reasonable accommodations for qualified individuals with a known handicap.

It is the policy of KE&G that all facilities, property and company activities are non-segregated, except where toilet, bathroom and necessary changing facilities are appropriately provided to assure privacy between the sexes.

KE&G continues to enforce its policy against sexual or other illegal, harassment or discrimination at work. This policy is also enforced in work-related activity or capacity. It is our company's policy to maintain a work environment free of harassment, intimidation and coercion in all areas, locations, and condition of employment and work assignment. KE&G takes this policy seriously, and all complaints, concerns or inquiries are taken seriously and investigated. Any complaint, concern, issue or inquiry pertaining to this policy, its violation, or enforcement, should be immediately called to the attention of the supervisor, the Project Manager, or the Office of the Controller, as may be appropriate.

For further information, or to make a complaint, raise an issue, or voice a concern, please contact KE&G's designated Equal Employment Opportunity Officer at 5100 S. ALVERNON WAY, TUCSON, AZ 85706. Phone (520) 748-0188 Fax (520) 748-8975.

SUBCONTRACTOR'S INITIALS _____

DATE _____

Project Schedule:

SUBCONTRACTOR'S INITIALS _____

DATE _____

To All Subcontractors,

All of our lien waivers and supplier releases need to be notarized.

If anyone other than an officer of your company is sent to pick up a check, a letter of authorization signed by an officer of your company and notarized on your company letterhead must be presented. We have included an example of an authorization letter for your convenience. This letter will be kept on file for future reference.

Thank you for your cooperation in this matter. Should you have any questions please contact our Lien Officer at (520) 748-0188.

(Your Company Letterhead)

Date

KE&G Construction, Inc.
5100 South Alvernon Way
Tucson, AZ 85706

To whom it may concern,

Below is a list of persons authorized to sign partial and/or final lien waivers for our company as of this date. We will notify you immediately of any additions or deletions.

PRINTED NAME

SIGNATURE

Sincerely,

(Company Name)

(Name & Title)

State of _____)

)ss.

County of _____)

Signed and sworn to before me this _____ day of _____, _____

By: _____ of _____
PRINTED NAME OF PERSON SIGNING COMPANY NAME

NOTARY PUBLIC My commission expires _____

INFORMATION SHEET

COMPANY NAME

ADDRESS

CITY STATE ZIP () PHONE

CHECK ONE: INDIVIDUAL PARTNERSHIP
 LIMITED PARTNERSHIP CORPORATION
 STATE OF INCORPORATION OTHER _____

TYPE OF BUSINESS

YEARS IN BUSINESS

SUBCONTRACTORS LICENSE NUMBER(S)

INSURANCE CARRIER

FEDERAL ID NUMBER

STATE TAX NUMBER

PRINCIPALS:

NAME

POSITION

NAME

POSITION

NAME

POSITION

NAME

POSITION

Brian Janski

From: David Heiman <dheiman@insituform.com>
Sent: Tuesday, August 04, 2015 12:27 PM
To: Brian Janski
Cc: Sethuraman Ganesan
Subject: Bid for 22nd St CIPP
Attachments: RWRD 22nd St Sewer Project No. 322AS5 - 8-4-15.pdf

Brian,

Please see our attached quote. This bid form is for CIPP and Lateral reinstatement only. This does not include bypass, CCTV, point repairs, etc. Let me know if you have any questions.

Thanks!

David Heiman | Business Development Manager
Cell: (480) 322-2747 | Fax: (480) 446-0349
dheiman@insituform.com



EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: Insituform Technologies, LLC
17988 Edison Avenue
Chesterfield, MO 63005

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

<u>ITEM NO.</u>	<u>QUANTITY AND UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
5.16	193 LF	12" Cured In Place Pipe	\$ <u>46.50</u>	\$ <u>8,974.50</u>
5.71	422 LF	10" Cured In Place Pipe	\$ <u>37.75</u>	\$ <u>15,930.05</u>
5.01	1 LS	Mobilization	\$ <u>3,565.00</u>	\$ <u>3,565.00</u>
			TOTAL BASE BID	\$ <u>28,469.55</u>

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

<u>ADDENDUM NUMBER</u>	<u>BY (NAME OF BIDDER'S PERSONNEL)</u>	<u>DATE</u>	<u>ADDENDUM NUMBER</u>	<u>BY (NAME OF BIDDER'S PERSONNEL)</u>	<u>DATE</u>

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: Whitney Schulte

Printed Name: Whitney Schulte, Contracting & Attesting Officer Date: August 7, 2015

Barbara Valdez

From: Jennifer Allen <jallen@sakcon.com>
Sent: Friday, August 07, 2015 2:37 PM
To: Barbara Valdez
Cc: Brian Ackerman
Subject: Proposal from SAK Construction for CIPP lining work on Pima County, AZ – 22nd Street Sewer Augmentation, Project No. 322AS5
Attachments: PimaCoAZ_KE&G(CMAR)_22ndStSwrAugmentation_SAKProposal_08-07-15.pdf

Barbara,

Attached, please find our proposal for the above referenced project.

If you have any questions, or need any additional information, please do not hesitate to contact us.

Regards,
Jennifer Allen
Estimator



Tel 916.644.1413 | Fax 888.893.5986
4253 Duluth Ave | Rocklin, California 95765 | www.sakcon.com

This email and any files transmitted with it contain confidential information and are intended only for the individual(s) named as recipient(s). If you are not a named recipient, you should disseminate, distribute or copy this email. If you have received this email by mistake, please notify the sender immediately and delete this email. Although the sender and SAK Construction, LLC have taken reasonable precautions to ensure that this email contains no viruses or corrupt attachments, the sender and SAK Construction, LLC cannot accept responsibility for any loss or damage arising from the use of this email or attachments. Unless otherwise confirmed by SAK Construction, LLC this email is not (i) a solicitation or offer to buy or sell any product or service, (ii) an official confirmation of any transaction, or (iii) an official statement of the sender.

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: SAK Construction, LLC
864 Hoff Road
O'Fallon, MO 63366

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
5.16	193 LF	12" Cured In Place Pipe	\$ <u>98.00</u>	\$ <u>18,914.00</u>
5.71	422 LF	10" Cured In Place Pipe	\$ <u>38.00</u>	\$ <u>16,036.00</u>
5.01	1 LS	Mobilization	\$ <u>3,565.00</u>	\$ <u>3,565.00</u>
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> ** Per terms and conditions contained in attached Proposal dated 08/07/15 </div>			TOTAL BASE BID**	\$ <u>38,515.00</u>

BID SCHEDULE CONTINUED

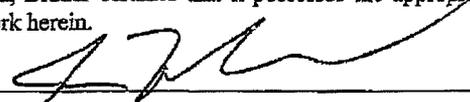
BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE
None (0)					

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: 

Printed Name: Joseph Feuerborn, General Manager West Date: 08/07/15



916.644.1400 tel
 916.644.1401 fax
 4253 Duluth Avenue
 Rocklin, CA 95765
 www.sakcon.com

PROPOSAL

TO: Barbara Valdez **COMPANY:** KE&G Construction **FAX/E-MAIL:** bvaldez@kectus.com

FROM: Jennifer Allen **COMPANY:** SAK Construction, LLC **PAGES:** 4

CC: Brian Ackerman (SAK) **DATE:** 08/07/15

RE: Pima County, AZ – 22nd Street Sewer Augmentation, Project No. 322AS5

Bids Due 08/07/15 @ 3:00 PM M.S.T.

The following is our unit price quotation for the CIPP portion of the above referenced project:

ITEM	DESCRIPTION	QTY	U/M	UNIT PRICE	EXTENSION
5.16	12" Cured In Place Pipe	193	LF	\$ 98.00	\$ 18,914.00
5.71	10" Cured In Place Pipe	422	LF	\$ 38.00	\$ 16,036.00
5.01	Mobilization for installation of CIPP	1	LS	\$ 3,565.00	\$ 3,565.00
ESTIMATED TOTAL FOR CIPP:					\$ 38,515.00

***** SAK CONSTRUCTION IS A UNION CONTRACTOR *****

PROPOSAL INCLUSIONS:

1. One mobilization / demobilization to the project site for the CIPP lining crew. Any additional mobilizations will be negotiated as extra work.
2. Install approximately 615 LF of cured-in-place pipe (CIPP) in the designated full-length manhole to manhole 10" & 12" diameter pipelines. The CIPP will utilize a polyester resin system and be installed per the requirements of the Cured-In-Place Pipe (CIPP) specifications contained in Sub Appendix D.
3. Provide internal reinstatement of active laterals encountered in the CIPP-lined pipes through the use of a remotely-controlled cutting device.
4. Provide required testing of samples of the installed CIPP at an independent laboratory to confirm conformance with minimum specified physical properties. Sampling methods and frequency will conform to specified parameters.
5. If the contract is not subject to Prime Contracting Transaction Privilege Tax, payment of Arizona Retail Transaction Privilege Tax on materials as applicable for the scope of work covered under this proposal is included.
6. Provide specified 2-year construction warranty on CIPP materials and workmanship.
7. Provide certificate of insurance and endorsements evidencing typical coverage and limits for General Liability (\$1 million / \$2 million), Automobile Liability (\$1 million), Workers' Compensation & Employer's Liability (\$1 million), and if required, Excess Liability (\$5 million). If insurance coverage above and beyond this is required, the General Contractor will be responsible for securing any additional insurance coverage or reimbursing SAK for the costs associated with obtaining the additional insurance.

8. When payment of prevailing wages is applicable, provide the required documentation showing workers on this project have been paid in accordance with the relevant prevailing wage determination for the appropriate laborer classification.

PROPOSAL EXCLUSIONS:

The following items are not included in this proposal, and when required, will be provided by the General Contractor at no cost to SAK. If SAK is required to provide any of these items, the costs will be charged to the General Contractor as extra work.

1. Perform the complete cleaning of the existing mainline pipe required prior to lining and dispose of the collected debris. This shall include the removal of obstructions or protrusions into the mainline pipe that would be required to be removed prior to lining operations. The General Contractor shall also perform the CCTV inspection of the existing mainline pipe required subsequent to cleaning and prior to CIPP lining to confirm the adequacy of the cleaning operations and to confirm that no obstacle remains in the pipe that would impede lining. This shall also include taking measurements of the actual diameters and lengths of the pipelines to be lined. The General Contractor shall provide records & documentation of the completed cleaning, CCTV inspection, and pipe measurements to SAK sufficiently in advance of the start of lining so that SAK may confirm that the pipe is ready to be lined and arrange for the necessary CIPP materials in a timely manner. The General Contractor shall also provide any required records & documentation of the completed CCTV inspection to the Owner.
2. Perform the CCTV inspection of the existing mainline pipe required subsequent to CIPP lining to confirm the adequacy of the lining operations. The General Contractor shall provide any required records & documentation of the completed post-lining CCTV inspection to both SAK and the Owner.
3. Provide any necessary traffic, parking, &/or pedestrian control. Traffic, parking, &/or pedestrian control systems shall be coordinated to accommodate SAK's operations and placed in a timely manner such that SAK's operations are not impeded or delayed. The General Contractor shall also be responsible for all required traffic control plans.
4. Provide any necessary plugging, damming, diversion, shutdown, and/or bypass pumping of existing pipeline flows, including providing any necessary dewatering of the pipelines, structures, access points, and liner termination points once the plugs, dams, diversion, shutdown, &/or bypass systems are in place and operating. Bypass or diversions systems shall be coordinated to accommodate SAK's operations and placed in a timely manner such that SAK's equipment and personnel are not obstructed by suction & discharge locations, or other components of the diversion or bypass system, and SAK's operations are not impeded or delayed. This shall also include providing any necessary odor control &/or monitoring work.
5. Provide any point repairs or other repairs necessary or required to repair or prepare the existing pipeline for CIPP lining.
6. Provide any required cured-in-place sectional liners (CIPSL) &/or top hat type service connection seals.
7. Provide legal and physical access to the pipeline, manholes, structures, and other access points sufficient to allow CIPP lining operations to be conducted, and to allow large trucks and equipment to access the structures and manholes directly when in streets, or as near as possible for easement locations. When applicable, this shall include locating, exposing, and making accessible any manholes, structures, or other access points, associated with the CIPP work, including any necessary alterations to fencing, trees and vegetation, and providing any final restoration once lining operations are complete. This shall also include providing expanded access by providing pits or other temporarily expanded access at locations where lining will end at a lamphole, rodhole, cleanout or similar structure that is not being replaced with a manhole prior to lining. When necessary, this shall also include providing expanded access by either staging construction of new structures or temporarily altering existing structures where the existing or new structure configuration will impede CIPP operations.
8. Provide any final repair, testing &/or inspection of CIPP-lined pipes when additional work has been performed in or on those pipes by others subsequent to the completion of SAK's work.
9. Provide access to a high-volume water supply at the project site either from the nearest fire hydrants, or other high-volume on-demand sources, as designated by and coordinated with SAK.
10. When needed, provide access to appropriate dump sites at the project site for disposal of debris and waste materials from the project.

11. Provide any required portable temporary restroom facilities required during service interruptions while laterals are out of service during CIPP lining operations
12. Provide access to a secure yard at or near site for staging and storage of equipment and materials, when available.
13. Provide all required notifications of agencies and other parties affected by the work. This shall include providing any necessary community and public relations work.
14. Obtain and pay for all special licenses, permits, variances, or other fees required to perform the work. The only exception to this is that SAK will obtain and pay for its own city &/or county business license(s), when required.
15. If the contract is subject to Prime Contracting Transaction Privilege Tax (TPT), the pricing provided above does not include TPT on the total subcontract gross receipts or on the permanent materials to be integrated into the work under this proposal. The General Contractor shall provide the appropriate resale certificate, or other required documentation, verifying that any subcontract resulting from this proposal is exempt from the payment of TPT on the subcontract gross receipts and permanent integrated materials. If appropriate resale or exemption documentation is not provided, TPT will be calculated and added to the subcontract pricing above at the applicable tax rate.
16. Subcontract bonds are not included. If subcontract bonds will be required, they can be provided for an additional fee of 1.5% of the bonded amount. Period of coverage for the bonds shall not exceed 1 year.

OTHER CONDITIONS:

1. Work covered by this proposal will be performed under a mutually agreed upon subcontract agreement which incorporates the terms and conditions contained in this proposal either by direct attachment, by insertion, or by reference. In case of conflict, the terms and conditions of this proposal shall prevail. The subcontract agreement shall not require either party to be liable to the other for consequential damages arising out of or relating to the subcontract or contract.
2. Work covered by this proposal will be performed under a mutually agreed upon project schedule. No material acquisition or mobilization will commence prior to the execution of a mutually agreed upon subcontract agreement. Once crews have been mobilized to site, work covered under this proposal must be able to proceed at an unrestricted pace without impediment or delay. If CIPP operations are delayed by the General Contractor or others, then standby costs &/or additional mobilization costs will be charged to the General Contractor accordingly.
3. Normal working hours for installing CIPP are 24-hours a day due to the nature of the product, which requires that once an install is started, it cannot be suspended until it is completed. To the extent that SAK will incur overtime expenses due to this schedule, those costs have been anticipated and are covered in this proposal. However, SAK will not be liable for any penalties, liquidated damages, overtime inspection costs, or other fees that may result from these required working hours.
4. Progress and final payments are due within 30 days of invoice, or when applicable regulations require, whichever is soonest. Release of any withheld retention shall be no later than 30 days from the completion and acceptance of the work covered under this proposal, excluding any subsequent work required in the warranty period, and regardless of whether the General Contractor's retention has been released by the Owner. If retention is not withheld from the General Contractor's payments, then retention shall not be withheld from SAK's payments. Overdue amounts will be subject to interest at a rate of 1.5% monthly, 18% annually.

5. This proposal covers only the scope of work specifically included above. It does not cover performing any cleaning or inspection of pipe or structures not specifically included above; warranty inspections or testing; verification of active/inactive status of laterals; alteration, repair, installation, or rehabilitation of manholes or other structures; abandonment of any pipe or structures; bypassing, plugging, shutdown, damming, diversion, or dewatering of existing pipe flows or structures; odor control &/or odor monitoring work or plans; pedestrian control, parking control, or traffic control; sampling or testing of the installed CIPP liner not specifically included above; sampling or testing of any substances or materials on the project not specifically included above; alteration, testing, sealing, repair, replacement, or rehabilitation of any lateral pipes or lateral connections, aside from any internal reinstatement specifically included above; grouting or repair of obstructions, voids, or defects in the host pipe prior to or after lining; cured-in-place sectional liner (CIPSL) spot repairs; top hat type service connection seals; mandrel testing or other similar testing of the pipe; or any work requiring excavation. This proposal also does not cover providing any field yards, meeting facilities, or office facilities for the project; phones, cameras, computer software, or computer equipment for the use of the General Contractor or Owner; photos or other documentation for record of pre- or post-construction site conditions; tree or vegetation clearing, trimming, removal, protection or restoration; snow &/or ice removal; handling, transportation, or disposal of hazardous materials; surveying or staking; engineered plans, designs, or drawings; preparation or implementation of any pollution control or environmental protection programs or plans; environmental stewardship; street sweeping; security; fencing of any kind; erosion or sedimentation control; community relations or public relations work; project signs or advance notification signs; and any necessary archaeological, biological, or ground settlement / movement monitoring and mitigation. If any of this type of work is required to be performed by SAK, it will be considered to be extra work and charged accordingly.
6. For the purposes of this proposal, the General Contractor shall be defined to be the entity contracting with SAK to perform the work covered under this proposal.
7. This proposal is valid for 90 days from the date of submission as indicated above.

SAK acknowledges receipt of NO (0) addenda for this project



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

July 30, 2015

Interested Parties,

KE&G Construction, Inc. is soliciting quotations as the Construction Manager At Risk under the contract from Pima County for the construction of the RWRD project 22nd Street Sewer Augmentation Project No. 322AS5. This contract is for the installation of approximately 5,492 linear feet of new 12 inch PVC sewer and necessary appurtenances. The estimated start date for construction is October 01, 2015 and shall be completed no later than November 25, 2015. Please note in your bid package the project schedule as it applies to your specific bid package. Included as part of the work necessary for construction are the following scopes of work:

- 30 inch Jack & Bore
- New Manhole Installation
- Asphalt Saw Cutting
- Concrete Curbing / Sidewalk Replacement
- Pavement Trench Patching
- Trucking / Hauling
- Bypass Pumping

Bids are due on **Friday, August 7th at 3:00 PM**. Please note that late bids will not be accepted. Bids will be accepted via mail, fax, or email. Send questions via email to Brian Janski at bjanski@kegtus.com.

Please submit bids to:

KE&G Construction, Inc.
5100 S Alvernon Way
Tucson, AZ 85706
Fax: 520-748-8975
bvaldez@kegtus.com

Attached you will find the project plans, bid sheet (if applicable), project plan overview, construction schedule, and draft subcontract agreement. Please note the subcontract requirements which will need to be met without exception.

KE&G Construction, Inc.

Barbara Valdez
Office Engineer

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: _____

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
6.10	460 LF	Concrete Curb	\$ _____	\$ _____
6.20	600 SF	Concrete Sidewalk	\$ _____	\$ _____
			TOTAL BASE BID	\$ _____

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: _____

Printed Name: _____ Date: _____

6.00 – Concrete Curbs & Sidewalks

DESCRIPTION:

All concrete curbing and sidewalks will be in conformance with the PC/COT Standard Specification for Public Improvements and the PC/COT Standard Details for Public Improvements 2003 Editions.

PROJECT INFORMATION AND PHASING:

This project will be linear in nature. Curb and sidewalk removal and replacement shall begin and continue along the mainline sewer installation between S Alvernon Way and S Swan Rd. Subcontractor will complete curb and sidewalk replacement as needed as the project progresses. All sidewalk and curb grading will be completed by other to +/- .1'. Subcontractor is required to work within the contractors existing traffic control which will provide a minimum of two travel lanes each direction at all arterial streets between the hours of 6:00 AM and 6:00 PM.

METHOD OF MEASUREMENT

Concrete curb will be measured by the linear foot (LF) installed, complete in place.

Concrete sidewalk will be measured by the square foot (SF) installed, complete in place.

Measurement, as provided above, will include concrete material, consolidation and necessary miscellaneous materials used in the construction of various concrete curb & sidewalk installation throughout the project.

BASIS OF PAYMENT

The accepted quantities of concrete curb & sidewalk, measured as provided above, will be paid for under the appropriate bid items at the contract unit price complete-in-place.

It shall be noted that concrete curb & sidewalk replacement will take place on an as needed basis throughout the project and no additional compensation shall be made for multiple mobilizations.

No additional compensation will be made for any additional or increased charges, costs, expenses, taxes, etc, which the contractor may have incurred since the time of bidding and which may be the result of any increase in the "initial cost" of material.



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S. ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

Date

Name
Company
Address
City, ST Zip

Re: Job Name Job #

Dear _____,

We are enclosing **Subcontract Agreement No. _____** for the work in connection with the above referenced project. Please execute the two copies of this Subcontract Agreement and return them to our office via regular mail or please print out one copy, execute, scan and return via email to:

KE&G Construction, Inc.
Attn:
5100 S. Alvernon Way
Tucson, AZ 85706

A fully executed copy will be returned for your files.

The Certificates of Insurance required in the attached subcontract must accompany the signed Subcontract Agreement and must indicate that they are in force, prior to the start of any work by your forces on this project. Please reference "Any and All Projects" on your insurance certificate, or reference the job number above on all certificates. If your company maintains an "Any and All Projects" certificate, a (project specific) certificate is not required.

No work is to begin on this project until the fully executed Subcontract Agreement, properly completed insurance certificates, and properly executed bonds (if required) are received by KE&G's Tucson office, as noted above.

Do not make any modifications to this Subcontract Agreement. Please notify me to discuss and coordinate any contract changes. Changes to this Subcontract Agreement will not be valid unless modified by written amendment.

For billing purposes, when invoices are submitted for partial payments under Section 5 of this Subcontract, please state on each invoice for each item of work, the current amount billed, as well as the total amount billed to date. In addition, please note **Job No. _____** on all invoices.

If you have any questions, please do not hesitate to call.

Regards,

KE&G Construction, Inc.

KE&G Project Coordinator Name
Job Title

cc: File _____ .3.20

SUBCONTRACT AGREEMENT

KE&G Construction, Inc.
5100 South Alvernon Way
Tucson, Arizona 85706 Office:
(520) 748-0188 Fax: (520)
748-8975

SUBCONTRACTOR:
ADDRESS:
PROJECT TITLE:

SUBCONTRACT NUMBER:
KE&G JOB NUMBER:
PRIME CONTRACT NO.:

THIS AGREEMENT (the "Agreement") is entered into this 06 day of September, 2013, by and between (the "Subcontractor"), and KE&G CONSTRUCTION, INC. (the "Contractor"), WITNESSETH:

SECTION 1. THE PROJECT: Contractor has been hired by (the "Owner") to construct (the "Project") in accordance with the terms and provisions of the Prime Contract No. between the Owner and the Contractor, dated (the "Prime Contract"), including all the general and special conditions, provisions, drawings, specifications, addenda numbers, and all other documents and revisions to date, as prepared by, forming or by reference made a part of the Prime Contract between the Contractor and Owner, and with particular reference to the below-listed technical and/or other sections or parts of the contract documents, all of which shall be considered part of this subcontract by reference thereto and they are as fully a part of this subcontract agreement as if hereto attached or the terms herein repeated, and the Subcontractor agrees to bind and obligate himself, in the performance of this subcontract, to the Contractor by the same terms, conditions, undertakings, and obligations that the Contractor is bound and obligated to the Owner by the Prime Contract insofar as the terms thereof shall not be in conflict with the terms hereof. Copies of said Prime Contract are on file in the office of the Contractor for Subcontractor's review, although Contractor may redact pricing information and other provisions from the Prime Contract as it deems reasonably necessary.

SECTION 2. SCOPE OF WORK: The Subcontractor agrees to furnish all labor, materials, tools, equipment, supplies, and supervision necessary or incidental to complete Work on the Project as follows:

Together with all authorized changes, this description as clarified by Project plans and specifications constitutes Subcontractor's "Work." When the Subcontractor does not install all material furnished under the subcontract, such material as is not installed is to be delivered F.O.B to the jobsite. The Parties each agree to proceed with the Project and the Work in good faith and in fair dealing. Each Party agrees to promote cooperation between the Parties and all other parties performing Work on the Project.

SECTION 3. SUBMITTALS: copies of complete detailed shop drawings, lists and brochures for architect and/or engineer approval shall be submitted through Contractor office within days of the date of this Agreement, as well as required material samples and color selections. ALL DRAWINGS REQUIRED OF THE SUBCONTRACTOR MUST BE SUBMITTED FOR APPROVAL OF THE ARCHITECT/ENGINEER THROUGH THE CONTRACTOR'S OFFICE.

SECTION 4. TIME OF PERFORMANCE: Time is of the essence in Subcontractor's performance of the Work. The Subcontractor shall furnish materials and prosecute the Work at the times herein provided for and otherwise in a prompt, diligent and expeditious manner and so as to promote the general progress of the entire construction and shall not, by delay or otherwise, interfere with or hinder the work of the Contractor or any other subcontractor. The Subcontractor agrees to keep itself informed as to the progress of the Project and to faithfully prosecute his Work, and several parts thereof, at such times and in such order as the Contractor considers necessary to keep the same sufficiently in advance of the other parts of the Project and to avoid any delay in the completion of the construction as a whole. The scheduled TIME OF PERFORMANCE OF THE WORK FORMING A PART OF THIS SUBCONTRACT IS IN ACCORDANCE WITH CONTRACTOR'S SCHEDULE IN ATTACHMENT "B".

SECTION 5. PAYMENTS: The Contractor agrees to pay the Subcontractor for material furnished and/or Work to be performed herein and performance of the subcontract as otherwise provided for herein the sum of dollars, \$, subject to additions and deductions for changes as may be agreed upon, or determined, as provided herein and subject to adjustments from quantity of Work performed at unit prices set forth under section 2 above. The aforementioned sum includes all taxes of any nature whatsoever that may be assessed against or incurred by the Subcontractor in performance of its Work. Partial payments less a retained percentage of % will be made to the Subcontractor, provided the Subcontractor has submitted its payment request to the Contractor's office on or before the day of each month, at the unit price set forth in Section 2 for Work and material incorporated into the construction and/or materials delivered to the site of the Work as estimated by the Owner's architect/engineer, less the aggregate of previous payments, providing payment for such Work and material has been approved by the Owner and payment has been received from the Owner by the Contractor, and upon complete performance of this subcontract and approval and acceptance of the Subcontractor's Work and material by the architect/engineer, the Contractor shall make final payment to the Subcontractor of the balance due to him within days after Contractor receives final payment from Owner. No payment on account shall be considered as an approval and/or acceptance of Work done or materials furnished, or any part thereof. The Subcontractor agrees the monies shall not be diverted to satisfy obligation of the Subcontractor on other contracts and the Subcontractor agrees to furnish proof of same upon written request of the Contractor. Contractor may issue joint checks payable to Subcontractor and its subcontractors and/or suppliers.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE EXECUTED THIS AGREEMENT by their proper officers duly authorized herein.

CONTRACTOR: KE&G CONSTRUCTION, INC.

SUBCONTRACTOR:

Signature Date

Signature Date

Print Name Title

Print Name Title

AZ Contractors License Numbers: ROC 227962; ROC 227963

AZ License # SS#/FEIN

SECTION 6. DELAY DAMAGES: The Prime Contract contains a liquidated damages clause in the amount of _____. Should the Subcontractor default in the proper performance of its Work, thereby resulting in delay, then Subcontractor shall be liable to Contractor for any and all loss and damages, including but not limited to liquidated damages assessed against the Contractor, extended general conditions, and Contractor's lost or foregone overhead and profit.

SECTION 7. SCHEDULES: Subcontractor shall perform its Work in accord with the Project schedule to be prepared by Contractor, which schedule shall be attached to this Agreement as Exhibit A upon its preparation. Subcontractor agrees to fully cooperate with the Contractor in maintaining and complying with Contractor's Project schedule. Upon request by the Contractor, the Subcontractor shall furnish the Contractor in writing appropriate information concerning its progress on the Work, including a progress schedule. Subcontractor's information and schedule will show in detail if required in Contractor's sole discretion the procurement, shop drawing, fabrication, delivery and installation activities of all the major components of Work. Subcontractor agrees to meet and keep this schedule and to apprise the Contractor monthly of its schedule progress, which term is a material condition of this Agreement. Subcontractor will adjust its performance schedule and pay all costs necessary to meet the Project schedule.

SECTION 8. EXTENSION OF TIME: No allowance of an extension of time, for any cause whatsoever, shall be claimed by the Subcontractor or be made to him, unless the Contractor and Subcontractor have agreed in writing upon the allowance of additional time to be made, the agreement for which must arise out of Subcontractor's written request for such extension made within forty eight hours after the cause of such extension occurred. No allowance of an extension of time shall, in any event be made to the Subcontractor, for delay by the Subcontractor in preparing submittals, or in securing approval of the architect or engineer thereon, when such submittals are not properly prepared, or when the Subcontractor, by the exercise of reasonable diligence and judgment, could have anticipated and avoided the delay.

SECTION 9. CLEANUP: Subcontractor will at all times maintain the site, all staging areas, and all surrounding sites free of debris and waste caused by its operations performed pursuant to this Agreement. Subcontractor shall not be held responsible for such site conditions caused by others, but Contractor may assess Subcontractor and offset any costs it incurs for removal of waste caused by Subcontractor's operations.

SECTION 10. WITHHOLDING OF FUNDS: The Contractor may deduct from any amounts otherwise due or to become due to the Subcontractor any sum or sums owing by the Subcontractor to the Contractor whether from a previously-approved pay application or all or a portion of a rejected pay application in an amount the Contractor determines to be sufficient to protect Contractor from loss or damage for which the Contractor may be liable. Contractor may reduce any payment to Subcontractor to offset or recoup any liability Subcontractor has to Contractor under this Agreement, including damage or loss Contractor incurs due to Subcontractor's failure to perform the Work in accord with all terms and conditions of this Agreement. Contractor is not liable for interest or other penalty for any amount withheld from a progress or final payment under this paragraph.

SECTION 11. CHANGES: The Owner or the Contractor may request changes in or to the timing or sequence of Subcontractor's Work, which changes may impact the pricing or time requirements of this Agreement. All changes in the Subcontractor's Work that affect the Subcontract value or time shall be formalized in a Change Order. In the absence of an agreement on the terms of Subcontractor's performance of the change, the Contractor may issue a written order directing Subcontractor to make changes in materials to be furnished or Work to be performed under this Agreement or additions thereto or omissions therefrom so long as the directed changes generally are of the type or character already within Subcontractor's Work. Upon receipt of any such directive, the Subcontractor shall not stop or suspend its performance but shall diligently perform the Work as changed regardless of whether the Contractor and Subcontractor are able to agree whether or to the extent the changes have any effect on the price or time requirements of this Agreement. Subcontractor must submit its costs for changes not reflected in a formal Change Order beginning with its next regularly-scheduled pay application. If there is a dispute as to the cost of the change, the Contractor shall pay Subcontractor 50% of its estimated cost to perform the change as it becomes due pursuant to Section 5, with each party reserving its right as to all amounts in dispute. Subcontractor expressly acknowledges that the Contractor may be damaged for Subcontractor's failure to timely perform changes to the Work as directed, including disputed changes.

SECTION 12. EARLY TERMINATION OF WORK: In the event the Owner by any reason suspends or terminates the construction of the Project or any portion thereof, the Subcontractor shall be entitled to payment for the Work done up to the time of such suspension or cancellation.

SECTION 13. FAILURE TO PERFORM: In the event the Subcontractor fails to comply with the provisions herein for any reason as to the character of the Work and time of performance, refuses to proceed with the Work as directed by the Contractor, or fails to perform said Work in accordance with Project plans and specifications, in whole or in part, or fails to perform any term, covenant or condition contained in this Agreement, then the Contractor may, at the Contractor's option and upon twenty-four (24) hours written notice and without prejudice to any other right or remedy, take any steps the Contractor deems expedient to finish the Work and pay any claims. If the unpaid balance of the Agreement exceeds the expense of finishing the Work or if Contractor experiences damages for the delayed completion of Subcontractor's Work, then Subcontractor shall pay all damages for delay Contractor assesses or other damages and expenses Contractor incurs, including any reasonable overhead and profit Contractor assesses. Contractor, by entering into this Agreement, does not waive any tort remedies, including those solely involving economic loss, it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise. Contractor expressly preserves any tort claims, remedies, and damages it may have against Subcontractor, whether arising out of or related to Subcontractor's scope of work or otherwise.

SECTION 14. INSURANCE: THE SUBCONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING THE PERFORMANCE OF THIS SUBCONTRACT THE FOLLOWING:

- 1) **Carrier** (insurance company) shall be **rated A-VII or better** by A.M. Best AND authorized to do business in the State of Arizona.
- 2) All policies shall be an **occurrence basis form**. "Claims made" policies are NOT acceptable.
- 3) Certificate **may cover multiple jobs if it states "All Operations"** and conforms to all applicable requirements listed herein.
- 4) Waivers of subrogation – Subcontractor will waive any subrogation rights it may have falling within the following categories of possible Project liability or insurance: worker's compensation, general liability, automobile liability, Contractor's equipment and any builder's risk/installation floater.
- 5) Auto liability covering owned, hired, and non-owned vehicles. Auto policy shall include KE & G Construction, Inc., the owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insureds.
- 6) If Subcontractor's insurance is considered inadequate, it shall pay any additional premium required by its carrier to obtain the minimum coverage required under this Agreement.
- 7) Umbrella Liability Insurance: KE&G Construction, Inc., the Owner, their respective directors, officers, employees, members, agents and others are also additional insureds.

ALL CERTIFICATES SHALL INCLUDE:

- 1) **Separate endorsement (attached to Insurance Certificate) for liability insurance only:**
 - ◆ **Additional Insured.** To the fullest extent permitted by law, General Liability and Excess Liability shall include Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract as Additional Insured(s) providing "Your Work" coverage (including both On-Going and Completed Operations coverage) arising out of work performed for the Contractor by the Subcontractor. Additional insured status for the Contractor, the Owner(s) of the project, their officers, directors, agents, members, employees and others as required by contract shall extend from the date of commencement of the work under the project until the expiration of the period established in the applicable state's statute of repose.
 - ◆ **Aggregate Limits of Insurance (per Project).** Each work order under a master contract is considered a separate project.
 - ◆ **Primary Insurance.** The Subcontractor's policy shall contain an endorsement making its policy primary and coverage maintained by KE&G Construction, Inc., the Owner and others as required by contract excess and non-contributing, either via language added to the additional insured endorsement or by a separate endorsement.
 - ◆ No limiting endorsements permitted for a required coverage.

The acceptance of an incorrect certificate by KE&G or its failure to obtain any certificate from Subcontractor does NOT waive the Subcontractor's obligations to comply with all insurance requirements of this Agreement.

MINIMUM POLICY LIMITS: (Does not limit your liability or obligation to indemnify, hold harmless and defend KE&G Construction, Inc., the Owner or others as required under the contract documents.) If you have or obtain insurance coverage in amounts in excess of those listed below, such additional insurance coverage shall also apply to the benefit of the indemnitees/additional insured.

SUBCONTRACTOR'S INITIALS _____

DATE _____

1. Commercial General Liability Insurance:
 - ◆ \$2,000,000 General aggregate (applicable to each Project)
 - ◆ \$2,000,000 Products-completed operations aggregate
 - ◆ \$1,000,000 Personal injury liability
 - ◆ \$1,000,000 Each occurrence
2. Business Automobile Liability Insurance:
 - ◆ \$1,000,000 Each occurrence
3. Worker's Compensation And Employer's Liability Insurance:
 - ◆ (Including U.S. Long Shoreman and Harbor Worker's Act/Jones Act where applicable)
 - ◆ \$1,000,000 Each accident (bodily injury by accident)
 - ◆ \$1,000,000 Disease – Policy Limit (Bodily Injury by Disease)
 - ◆ \$1,000,000 Disease – Each Employee (Bodily Injury by Disease)
4. Umbrella Liability:
 - ◆ \$1,000,000 Each occurrence
 - ◆ \$1,000,000 Annual Aggregate

No insurer may cancel any policy in place as of the date this Agreement is executed without 30 days advance notice to Contractor.

SECTION 15. INDEMNITY AND OTHER REQUIREMENTS: To the fullest extent permitted by law, Subcontractor shall indemnify, defend, and hold harmless Contractor, the Owner, and each of their respective agents and employees (the "Indemnitees") from and against all claims for bodily injury and property damage that may arise from the performance of the Subcontract Work, including reasonable attorney's fees, costs, and expenses arising from the performance of the Work, to the extent caused by the negligence, recklessness or intentional wrongful conduct of the Subcontractor, Subcontractor's subcontractors or suppliers, or any other person or entity employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable.

The only exception to the Subcontractor's duties under this paragraph will be to the extent a particular claim is the result of the sole negligence of an Indemnitee, and in that event, the Subcontractor will not be obligated to indemnify the Indemnitee. The Subcontractor's duty to defend will be a separate and distinct obligation from the duty to indemnify the Indemnitees and is enforceable regardless of fault or negligence. The obligations stated under this paragraph shall survive all terminations of this Agreement.

In any and all claims against the Indemnitees by any employee or the Subcontractor, anyone directly or indirectly employed by the Subcontractor, or anyone whose acts the Subcontractor otherwise may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Subcontractor under worker's compensation acts, disability benefit acts, or other employee benefit acts.

SECTION 16. INDEPENDENT CONTRACTOR: The status of the Subcontractor shall be that of an independent contractor. Neither Subcontractor, Subcontractor's officers agents or employees, nor any other party hired to perform any portion of the Work shall be considered an employee of Contractor or be entitled to receive any employment-related benefits from Contractor or its benefit providers. Subcontractor shall be responsible for payment of all federal, state and local taxes associated with the compensation received pursuant to this Agreement and shall indemnify and hold Contractor harmless from any and all liability which Contractor may incur because of Subcontractor's failure to pay such taxes. Subcontractor shall be solely responsible for program development and operation. Subcontractor will be fully responsible for all acts and omissions of any subcontractor, supplier, any person directly or indirectly employed to perform any portion of the Work, and any perform for whose acts or omissions any of them may be liable to the same extent that Subcontractor is responsible for the acts and omissions of persons directly employed by it.

SECTION 17. PROJECT RECORDS: Subcontractor will maintain detailed records of all its Work for a minimum of six years following final completion of all Project Work. If the Project constitutes residential work, Subcontractor will maintain these records for a minimum of nine years. Subcontractor will allow Contractor prompt access to all Project records.

SECTION 18. THIRD PARTY BENEFICIARY: Subcontractor may only execute contracts with third parties to perform portions of the Work if its subcontractors and suppliers are bound by the terms of this Agreement. Subcontractor shall ensure that Contractor is a third-party beneficiary of any contract executed between Subcontractor and any such third-party, but this Agreement is not intended to confer any rights or remedies of any nature upon any person other than the parties. Contractor expressly reserves its ability to bring a civil action and to obtain relief against any third-party performing work for Subcontractor.

SECTION 19. ASSIGNMENTS: The Subcontractor shall not assign or sublet this Agreement or any part thereof without written consent of the Contractor.

SECTION 20. ASSIGNMENT OF FUNDS: The Subcontractor shall not assign, or attempt to assign, in any manner, at any time, funds accrued or to accrue under this subcontract, without written consent of the Contractor. And no such assignment shall be binding on the Contractor unless and until accepted in writing by the Contractor.

SECTION 21. RULINGS: It is agreed that the Subcontractor shall be bound by the rulings and decisions of the Owner to the same extent and degree that the Contractor is bound by said rulings and decisions insofar as they may pertain to the Work included within this Subcontract Agreement.

SECTION 22. BOND: If so stated under Section 2 above, the Subcontractor further agrees to provide the Contractor with payment and performance bonds that satisfy all requirements of Arizona Revised Statutes, Title 34, as if Subcontractor were performing the Work directly for a public entity. All bonds shall be provided to Contractor within ten (10) days from date of this subcontract

SECTION 23. SCHEDULE OF VALUES: If Section 22 above is waived, the Subcontractor agrees to furnish the Contractor with a complete schedule of values, including a list of any parties it will contract with to perform any portion of the Work and suppliers of all material therefor Subcontractor intends to use during the performance of the Project, along with approximate respective dollar amounts. Subcontractor agrees to keep this list current at all times by advising Contractor immediately of any changes. Subcontractor shall provide Contractor with lien waivers from all its subcontractors and suppliers prior to the Subcontractor receiving each payment from Contractor; Subcontractor authorizes Contractor to contact Subcontractor's suppliers and subcontractors to obtain and verify account information pertaining to this Project.

SECTION 24. EQUAL EMPLOYMENT OPPORTUNITY: The Subcontractor will comply with all provisions of Paragraphs 1 through 6 of Section 301, of Executive Order No. 10925 of 6 March 1961, as amended by Executive Order No. 11114 of 22 June 1963. In conformance with Executive Order 11246 and as a performance standard and condition of contract compliance, the Subcontractor agrees to adopt, adhere to, and otherwise abide by and enforce an Equal Employment Opportunity and Anti-discrimination (EEO) Policy with respect to the recruitment, selection, employment and performance standards involving the Subcontractor's work force. The Subcontractor shall provide a copy of their policy statement and otherwise provide records to prove, and/or demonstrate, compliance with an EEO Policy as reasonably requested, as conditions of bid acceptance, contract performance and work completion. In the event the Subcontractor does not demonstrate, at the time of either bid submission or contract award, their own EEO Policy as described in the above and foregoing standard, then the Subcontractor agrees to modify in name and accept, adopt and implement as their own, the EEO Policy of KE&G, a copy of which is attached (See Attachment A) and incorporated into and made part of this contract as a requirement, by reference herein.

SECTION 25. RESPONSIBILITY FOR WORK: Subcontractor shall be responsible for all Work required of it under this Agreement, property and/or materials until completion and final acceptance of the Project by the Owner, and Subcontractor shall bear the risk of any loss or damage until such acceptance. In the event of loss or damage, Subcontractor shall proceed promptly to make repairs, or replacement of the damaged Work, property and/or materials at its own expense, as directed by the Contractor. Subcontractor waives all rights it might have against Owner and Contractor for loss or damage to Subcontractor's Work, property, or materials.

SUBCONTRACTOR'S INITIALS _____

DATE _____

SECTION 26. OPERATING INSTRUCTION AND WORK GUARANTEE: The Subcontractor shall furnish all operating instructions, parts lists, and manuals pertinent to requirements of the Prime Contract and shall guarantee all Work performed herein against defective material and/or workmanship for a period of one year from date of acceptance by the Owner of the completed contract, unless a longer period of guarantee is called for in writing or at law.

SECTION 27. HOISTING: Subcontractor shall not use Contractor's hoisting facilities without Contractor's written authority. Hoisting where requested and provided shall be maintained only on a scheduled basis at Contractor's sole convenience and Subcontractor's cost.

SECTION 28. SAFETY: Subcontractor shall maintain its own safety program in a manner and substance sufficient to protect Contractor and Owner from all claims arising out of Subcontractor's Work. Subcontractor shall be responsible for all safety requirements within the scope of its Work unless otherwise agreed to in writing between the parties. In performing any Work under this Agreement in or on the areas which are under the direct control of the Owner and or the Contractor, the Subcontractor shall: (a) conform to all safety regulations and requirements prescribed by the federal, county, city, and any other agency or the Contractor having cognizance of the Work being performed; (b) take such additional precautions as the Contractor and/or Owner may reasonably require for safety and accident prevention purposes. The Subcontractor agrees to take all reasonable steps and precautions to prevent accidents and preserve the life and health of Subcontractor's, Contractor's, and Owner's personnel performing or in any way in contact with the performance of this subcontract. Any violation of such rules and requirements, unless promptly corrected as directed by the Contractor and/or Owner shall be grounds for termination of this Agreement. Subcontractor's general indemnification obligations under this Agreement require Subcontractor to indemnify, defend, and hold harmless Contractor and Owner from all applicable safety requirements or violations within the scope of Subcontractor's Work.

SECTION 29. WAIVERS: Waivers of any breach hereof shall not constitute a waiver of any subsequent breach of the same or any other provision hereof.

SECTION 30. LAYOUT AND RESPONSIBILITY: The Contractor shall establish principal axis lines and levels whereupon the Subcontractor shall lay out and shall be strictly responsible for the accuracy of its Work and for any loss or damage to the Contractor or to other Subcontractors engaged in Work on the site by reason of failure of the undersigned Subcontractor to set out or perform correctly its Work. The Subcontractor shall exercise prudence so that actual final conditions and details shall result in perfect alignment of finish surfaces.

SECTION 31. HEADINGS: The section headings appearing in this subcontract are inserted as a matter of convenience only, and for reference purposes only, and are not intended to be a part of this subcontract, or in any way to define, limit or describe the scope and intent of the particular section to which they refer.

SECTION 32. ALTERNATIVE DISPUTE RESOLUTION: The parties agree that all claims, disputes and causes of action arising from or related to this Agreement, whether sounding in contract or in tort, shall first be subject to mediation and then arbitration. Unless the parties agree within ten (10) days of any notice of claim from one party to the other, the Mediator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court with mediation to occur in Tucson, Arizona. Any and all claims not resolved by mediation will be subject to arbitration. The Parties agree that a single arbitration may be conducted regarding all related Project disputes and require that its subcontractors and suppliers also agree. Unless the parties agree within twenty (20) days of the timely demand for arbitration, the Arbitrator shall be chosen by the Presiding Civil Judge of the Pima County Superior Court. Arbitration will be conducted under A.R.S. §12-3001 *et. seq.* with arbitration to occur in Tucson, Arizona. The prevailing party at arbitration shall be awarded its reasonable attorneys' fees, costs of mediation, costs of arbitration, arbitration filing fees, fees of the mediator and arbitrator, and fees and costs of expert witness. The parties shall be entitled to reasonable discovery and to injunctive relief, which may be confirmed in the Superior Court even on a preliminary order. To the extent the Prime Contract contains alternative dispute resolution requirements which conflict with the requirements of this paragraph, they will govern.

SECTION 33. Subcontractor agrees to make no claim against Contractor for costs or damages resulting from delay in the performance of the subcontract, from any cause including but not limited to delay from or related to any act or omission of the Contractor or Owner or their agents. Subcontractor waives and releases any and all claims it ever had, now has, or may have in the future for direct and consequential damages against Contractor arising out of the Project and/or Subcontractor's Work. Unless Contractor recovers compensation for the delay from the Owner, Subcontractor agrees that an extension of time to complete performance of Work shall be Subcontractor's exclusive remedy; should Contractor recover compensation from Owner for any delay, Subcontractor agrees that any claim for compensation is limited to an equitable share of the recovery. As examples and not as limitation, Subcontractor shall not be entitled to damages, costs, or payment of money from Contractor and waives any right to make any claims against Contractor for additional compensation or any costs or losses arising from or related to delayed performance of Subcontractor's Work, including but not limited to, changes in the Work, design defects, delay in obtaining required approvals or testing, failure of Owner to make payment, any act, neglect, default or failure of performance by Contractor or other Subcontractors or suppliers, delay in obtaining title or possession of land or acquiring rights-of-way, failure to provide access, failure to furnish required materials, differing site conditions, Owner delay in obtaining financing, delay in obtaining permits, delays in scheduling or the coordination of the Work, or delay or breach the performance of any other conditions or terms required by the contract documents unless Contractor receives payment for such damages on behalf of Subcontractor. Subcontractor will fully cooperate with Contractor in connection with any claims raised by or against Owner. If Contractor recovers damages for delay on behalf of the Subcontractor, Subcontractor shall pay or reimburse Contractor all costs and fees, including attorneys' fees and expert witness fees, incurred by Contractor in obtaining the additional compensation; payment to Subcontractor shall be less Contractor's charge of fifteen percent (15%) for overhead plus five percent (5%) for profit.

SUBCONTRACTOR'S INITIALS _____

DATE _____

KE&G Construction, Inc.
EQUAL OPPORTUNITY EMPLOYMENT POLICY

Date: January 1, 2007
To: All Employees, Job Applicants, Referral Agencies and EEO Compliance Officers
From: Office of the President
Subject: Equal Employment Opportunity Policy

As a reminder to all our employees, job applicants, referral agencies and authorized representatives from agencies of jurisdiction, KE&G has, at its core of management philosophy and practice, a policy of equal employment opportunity for all. KE&G does not discriminate against any job applicant, or employee, on the basis of race, color, religion, national origin, handicap, age or sex. We will continue to take affirmative action to insure that this policy is enforced consistently with regard to employment, upgrading, transfer, demotion, recruitment and recruitment advertising, layoff and termination, compensation, training and working conditions.

As an example of our enforcement efforts, KE&G summarizes our equal employment opportunity policy in our Employee Information Guide and other published information. KE&G refers to our equal employment opportunity policy in our recruitment advertising, job notices and bid submissions when and to the extent this reference is applicable and appropriate.

KE&G continues to make it understood by the employment entities with whom we deal, and in our employment opportunity announcements that the foregoing is our policy, and that job applicants and employees will continue to be compensated, trained, advanced, demoted, terminated, hired and transferred solely on the basis of their skill, devotion, loyalty, honesty, reliability and integrity; particularly, as these factors relate to the employee's ability to meet reasonable and expected job standards.

All employees of KE&G are requested to encourage minorities, women, Veterans of the Vietnam Era and qualified handicapped persons to make application for employment with the company or to apply for training in an approved On-the-Job Training or Apprenticeship program. KE&G continues to publish in its Employee Information Guide and in other publication our company's commitment to providing reasonable accommodations for qualified individuals with a known handicap.

It is the policy of KE&G that all facilities, property and company activities are non-segregated, except where toilet, bathroom and necessary changing facilities are appropriately provided to assure privacy between the sexes.

KE&G continues to enforce its policy against sexual or other illegal, harassment or discrimination at work. This policy is also enforced in work-related activity or capacity. It is our company's policy to maintain a work environment free of harassment, intimidation and coercion in all areas, locations, and condition of employment and work assignment. KE&G takes this policy seriously, and all complaints, concerns or inquiries are taken seriously and investigated. Any complaint, concern, issue or inquiry pertaining to this policy, its violation, or enforcement, should be immediately called to the attention of the supervisor, the Project Manager, or the Office of the Controller, as may be appropriate.

For further information, or to make a complaint, raise an issue, or voice a concern, please contact KE&G's designated Equal Employment Opportunity Officer at 5100 S. ALVERNON WAY, TUCSON, AZ 85706. Phone (520) 748-0188 Fax (520) 748-8975.

SUBCONTRACTOR'S INITIALS _____

DATE _____

Project Schedule:

SUBCONTRACTOR'S INITIALS _____

DATE _____

To All Subcontractors,

All of our lien waivers and supplier releases need to be notarized.

If anyone other than an officer of your company is sent to pick up a check, a letter of authorization signed by an officer of your company and notarized on your company letterhead must be presented. We have included an example of an authorization letter for your convenience. This letter will be kept on file for future reference.

Thank you for your cooperation in this matter. Should you have any questions please contact our Lien Officer at (520) 748-0188.

(Your Company Letterhead)

Date

KE&G Construction, Inc.
5100 South Alvernon Way
Tucson, AZ 85706

To whom it may concern,

Below is a list of persons authorized to sign partial and/or final lien waivers for our company as of this date. We will notify you immediately of any additions or deletions.

PRINTED NAME

SIGNATURE

Sincerely,

(Company Name)

(Name & Title)

State of _____)

)ss.

County of _____)

Signed and sworn to before me this _____ day of _____, _____

By: _____ of _____
PRINTED NAME OF PERSON SIGNING COMPANY NAME

NOTARY PUBLIC My commission expires _____

INFORMATION SHEET

COMPANY NAME

ADDRESS

CITY

STATE

ZIP

(.)

PHONE

CHECK ONE: INDIVIDUAL
 LIMITED PARTNERSHIP
 STATE OF INCORPORATION

PARTNERSHIP
 CORPORATION
 OTHER _____

TYPE OF BUSINESS

YEARS IN BUSINESS

SUBCONTRACTORS LICENSE NUMBER(S)

INSURANCE CARRIER

FEDERAL ID NUMBER

STATE TAX NUMBER

PRINCIPALS:

NAME

POSITION

NAME

POSITION

NAME

POSITION

NAME

POSITION

EXHIBIT "A" - CONTRACTOR BID SHEET

BID SCHEDULE

BID OF: KEEG Construction, Inc.
5100 S. Alvernon Way
Tucson, AZ 85706

(CONTRACTOR'S NAME AND ADDRESS)

22nd Street Sewer Augmentation

The bidder has carefully examined the form of the Contract, Special Provisions, Pima County/City of Tucson Standard Specifications and Details, Construction Drawings, Technical Specifications, and will provide all necessary staffing, equipment, tools, apparatus, and other means of construction and complete all the work called for by said Documents in the manner prescribed therein, **COMPLETE, IN PLACE, AS FOLLOWS:**

ITEM NO.	QUANTITY AND UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
6.10	460 LF	Concrete Curb	\$ <u>23.34</u>	\$ <u>10,736.40</u>
6.20	600 SF	Concrete Sidewalk	\$ <u>10.07</u>	\$ <u>6,042.00</u>
			TOTAL BASE BID	\$ <u>16,778.40</u>

BID SCHEDULE CONTINUED

BIDDER SHALL SIGNIFY RECEIPT OF ADDENDA (IF ANY). Failure to acknowledge Receipt of any Material Addendum may result in rejection of the bid.

ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE	ADDENDUM NUMBER	BY (NAME OF BIDDER'S PERSONNEL)	DATE

BIDS MUST BE SIGNED BY AN AUTHORIZED CONTRACTOR REPRESENTATIVE

Bidder hereby certifies that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

By submitting this bid, Bidder certifies that it possesses the appropriate license required by the Arizona Registrar of Contractors for the work herein.

Signature of Bidder: Jesse Grinsteiner
Printed Name: Jesse Grinsteiner Date: 8/7/15

Barbara Valdez

From: Pat O'Barr <pobarr@miuracontracting.com>
Sent: Friday, August 07, 2015 12:34 PM
To: Barbara Valdez
Subject: RE: CMAR 22nd St. Sewer Augmentation Bid Packages
Attachments: KEG 22nd St Sewer Augment Proposal.pdf

Here you go Barbara. Make sure you are sitting down when you open this, but we both know how this job will go.

Thanks,

Pat O'Barr
Estimator/PM



Miura Contracting
A Division of Eagle EGC, LLC
8(a), SBE, DBE Certified
4677 S. Contractors Way
Tucson, AZ 85714
Main Office: 520-292-3939
Fax: 520-292-4670
Mobile: 520-248-1813
pobarr@miuracontracting.com
****A Company You Can Build On****

From: Barbara Valdez [<mailto:bvaldez@kegtus.com>]
Sent: Friday, August 7, 2015 10:39 AM
To: Mike Escarcega; Pat O'Barr
Subject: FW: CMAR 22nd St. Sewer Augmentation Bid Packages

Please use bid schedule attached to return bid.

Barbara

From: Barbara Valdez
Sent: Monday, August 03, 2015 2:49 PM
Subject: CMAR 22nd St. Sewer Augmentation Bid Packages

Please attached bid package for CMAR 22nd St. Sewer Augmentation. If you have any questions contact Brian Janski at bjanski@kegtus.com.

Bids are due to me by Friday August 7, 2015, 3:00 PM

Regards,
Barbara

Barbara Valdez, Office Engineer

NOTES: Prices for above work based on one mobilization. Additional mobilizations at \$750.00 each. Changes in scope of work, additional work, and / or any work not specifically listed on page 1 will require a signed change order request before work starts.

General Conditions:

Price breakdown per bid item or section available upon award of contract or purchase order.

Bid prices subject to review and or surcharges after 30 days because of escalating costs of ABC, Asphalt, Concrete, Rebar, Steel, Lumber, Pipe, Trucking, Fuel and any other relevant construction material or associated costs.

Grade for sidewalks, curbs, slabs, or driveways to be at finish compacted subgrade. Additional fill or ABC to be supplied by General Contractor. Cost of manpower & equipment to bring finish to subgrade will be billed as additional work or as a change order.

This bid may be withdrawn by Miura if reference checking indicates slow or non-payment by the general contractor, customer, client, or agency.

Add 3 % to total bid to cover cost of payment and performance bond if required.

EXCLUSIONS: Permits, taxes, bonds, engineering, as-builts, import or export of dirt or fill, compaction testing, landscaping, relocation of utilities, blasting, hard digging (rock, caliche, or any other tough material), topsoil, barricades, traffic control, S.W.P.P.P. errors or omissions in plans or specifications, responsibility for delays in progress of work caused by acts of god (floods, storms, strikes, etc.) acts of another contractor, unusual or severe weather or any work not specifically listed above.

We propose, hereby, to furnish material and labor complete in accordance with above specifications for the sum of:

DOLLARS **\$35,040**

with payment to be made as follows

Net 30 days

All material is guaranteed to be as specified. All work to be completed according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders and will become an extra charge over and above the estimate.

All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

A 1 1/2 % month service charge will be added if not paid upon completion and billing.

NOTE: This bid and any of its prices good for (30) days. After (30) days, prices are subject to review.

Acceptance of Proposal

The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

Payment will be made as outlined above.

Signature: _____

(Customer)

Date of Acceptance: _____

Signature: _____

Miura Contracting

Since 1989