

Santaquin Zone 11 West CMGC #2 Pipeline & Pump Station



VanCon Inc.

1825 North Mountain Springs Pkwy

Springville, UT 84663

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Quote To: Santaquin City

Job Name:

Date of Plans: 3-22-22

Revision Date:

Phone:

Fax:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Reconfiguration of Existing Tank Site Piping	1.00	LS	65,000.00	65,000.00
2	Tank Backfill Import Material Credit	1.00	LS	-266,000.00	-266,000.00
3	Mine Native Material & Haul to Tank Replace Item 2	1.00	LS	103,900.00	103,900.00
4	Fuel Surcharge Backfill Tank Only from GMP 1	1.00	LS	3,586.00	3,586.00
5	16 Inch Waterline Materials less Pipe	1.00	LS	32,750.00	32,750.00
6	16 Inch Waterline Installation	1.00	LS	170,000.00	170,000.00
7	24 Inch Waterline Materials less Pipe	1.00	LS	154,500.00	154,500.00
8	24 Inch Waterline Installation	1.00	LS	518,700.00	518,700.00
9	Asphalt Paving	1.00	LS	91,820.00	91,820.00
10	Pump Station Complete	1.00	LS	1,525,518.00	1,525,518.00
12	Fuel Surcharge Pipeline & Pumpstation from GMP 1	1.00	LS	25,217.00	25,217.00
12	Markup 7%	1.00	LS	169,749.16	169,749.16
13	Contingency 2.5%	1.00	LS	64,868.43	64,868.43
GRAND TOTAL					\$2,659,608.59

Santaquin Zone 11 West CMGC Breakdown

	Original 9-1-2021	GMP 1 12-9-2021	GMP 2 4-28-2022	Variance from Original to GMP 1 & GMP 2
Mobilization	\$ 165,000.00	\$ 170,000.00	\$ -	\$ 5,000.00
Pipeline	\$ 3,400,000.00	\$ 2,014,690.55	\$ 1,057,987.00	\$ (327,322.45)
Tank	\$ 1,135,000.00	\$ 2,081,000.00	\$ (158,514.00)	\$ 787,486.00
Pump Station	\$ 1,220,000.00	\$ -	\$ 1,525,518.00	\$ 305,518.00
Design/Management Fee	\$ 320,000.00			\$ (320,000.00)
Markup 7%	\$ 414,400.00	\$ 298,598.34	\$ 169,749.37	\$ 53,947.71
Contingency 2.5%	\$ 148,000.00	\$ 114,107.22	\$ 64,868.51	\$ 30,975.73
				\$ 535,604.99
Subtotal	\$ 6,802,400.00	\$ 4,678,396.11	\$ 2,659,608.88	

GMP Subtotal	\$ 7,338,004.99
Design Management Fee	\$ 320,000.00
Total GMP	\$ 7,658,004.99

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
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BID ITEM = 10 CLIENT# = 1
Description = Reconfiguration of Exisiting Tank Site P Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

2400 IPL Waterline Materials **Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 6319**

21611	16" MJ 11.25 B@107.75%	1.00	1.00 EA	882.360		951				951
21612R	16" x 12" MJ R@107.75%	1.00	1.00 EA	713.120		768				768
216BFV	16" MJ Butterf@107.75%	1.00	1.00 EA	14,033.140		15,121				15,121
216DIP	16" DIP Pipe@107.75%	1.00	182.00 LF	60.930		11,949				11,949
216FA	16" Flange Ada@107.75%	1.00	1.00 EA	857.260		924				924
216FP	16" Flange Pac@107.75%	1.00	1.00 EA	59.850		64				64
\$29,776.71				[]		29,777				29,777

2400.1 IPL Install Waterline **Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 6319**

<u>PWPL</u>	Water Pipe Laying Crew		50.00 CH	Prod:	0.2000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00	
8EX200	200 Series Trackhoe	1.50	75.00 HR	141.020			10,577		10,577	
8L70	70 Series Loader	0.50	25.00 HR	104.600			2,615		2,615	
8MCW	Compaction Wheel	1.00	50.00 HR	48.280			2,414		2,414	
8MGB	Gravel Bin	1.00	50.00 HR	36.110			1,806		1,806	
8MTB	Trench Boxes	1.00	50.00 HR	6.750			338		338	
8MTP	Trench Plates	1.00	50.00 HR	1.500			75		75	
8TPU	Pickup Trucks	2.00	100.00 HR	23.710			2,371		2,371	
FP	Foreman Pipe	1.00	50.00 MH	38.000	4,492				4,492	
OP	Operator	1.00	50.00 MH	27.000	3,847				3,847	
PI	Pipelaye	1.00	50.00 MH	24.000	3,523				3,523	
PL	Pipelaye Lead	1.00	50.00 MH	26.000	3,653				3,653	
\$35,709.33	200.0000 MH/LS		200.00 MH	[6325]	15,515			20,195		35,709

=====> **Item Totals: 10 - Reconfiguration of Exisiting Tank Site P**
 \$65,486.04 200.0000 MH/LS 200.00 MH [6325] 15,515 29,777 20,195 **65,486**
 65,486.040 1 LS 15,514.83 29,776.71 20,194.50 65,486.04

BID ITEM = 20 CLIENT# = 2
Description = Tank Backfill Import Material Credit Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

2700.150.1 SG Fill for Tank Backfill (Less Pipe Spo **Quan: -17,500.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 6217**

2AGB Granular Backf@107.75% 1.00 -33,250.00 TON 1.000 -35,828 ****Unreviewed -35,828**

2750.150.1 H Haul in Tank Fill Material **Quan: -33,250.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 6217**

<u>HT</u>	Hauling Truck & Pup Crew		-1,231.48 CH	Prod:	270.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	
8TTP	Dump Truck & Pup	1.00	-1,231.48 HR	109.700			-135,094		-135,094	
DR	Driver	1.00	-1,231.48 MH	28.000	-95,521				-95,521	
\$-230,613.10	0.0370		-1,231.48	[]	-95,521		-135,094		-230,614	

=====> **Item Totals: 20 - Tank Backfill Import Material Credit**
 \$-266,439.98 -1,231.4800 -1,231.48 [] -95,521 -35,828 -135,094 **-266,441**
 -266,439.979 1 LS -95,519.74 -35,826.87 -135,093.34 -266,439.97

BID ITEM = 30 CLIENT# = 3
Description = Mine Native Material & Haul to Tank Repl Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
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BID ITEM = 30 CLIENT# = 3
Description = Mine Native Material & Haul to Tank Repl Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

2000 SWC Mine Native Material & Haul to Tank Quan: 22,500.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 6217

<u>EX</u>	Excavation Crew Small	100.00	CH	Prod: 2,250.0000 US	Lab Pcs:	3.00	Eqp Pcs:	5.00
8EX400	400 Series Trackhoe	1.00	100.00 HR	266.270			26,627	26,627
8TPU	Pickup Trucks	2.00	200.00 HR	23.710			4,742	4,742
8TRT	Rock Truck 30 Ton	2.00	200.00 HR	237.420			47,484	47,484
FP	Foreman Pipe	1.00	100.00 MH	38.000	8,984			8,984
OL	Foreman Earthwork	1.00	100.00 MH	36.000	8,280			8,280
OP	Operator	1.00	100.00 MH	27.000	7,694			7,694
\$103,810.92	0.0133 MH/CY	300.00	MH	[0.494]	24,958		78,853	103,811

=====> **Item Totals: 30 - Mine Native Material & Haul to Tank Repl**
 \$103,810.92 300.0000 MH/LS 300.00 MH [11110] 24,958 78,853 **103,811**
 103,810.920 1 LS 24,957.92 78,853.00 103,810.92

BID ITEM = 40 CLIENT# = 4
Description = Fuel Surcharge Backfill Tank Only from G Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

2000 SWC Fuel Surcharge Quan: 3,328.00 GAL Hrs/Shft: 10.00 Cal: 510 WC: 6217

3FUEL	Fuel@107.75%	1.00	3,328.00 GAL	1.000		3,586		3,586
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=====> **Item Totals: 40 - Fuel Surcharge Backfill Tank Only from G**
 \$3,585.92 [] 3,586 **3,586**
 3,585.920 1 LS 3,585.92 3,585.92

BID ITEM = 50 CLIENT# = 5
Description = 16 Inch Waterline Materials less Pipe Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

2400 IPL Waterline Materials Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 6319

214MLD	14" Megalug DI@107.75%	1.00	1.00 EA	191.160	206		206
214TG	14" Trany Gask@107.75%	1.00	1.00 EA	46.440	50		50
21614R	16" x 14" MJ R@107.75%	1.00	1.00 EA	774.630	835		835
21622	16" MJ 22.5 Be@107.75%	1.00	3.00 EA	882.360	2,852		2,852
21645	16" MJ 45 Bend@107.75%	1.00	1.00 EA	919.980	991		991
21690	16" MJ 90 Bend@107.75%	1.00	1.00 EA	1,286.780	1,387		1,387
216BP	16" MJ Bolt Pa@107.75%	1.00	1.00 EA	84.000	91		91
216MLD	16" Megalug DI@107.75%	1.00	13.00 EA	257.890	3,612		3,612
216PG	16" MJ Plug@107.75%	1.00	1.00 EA	661.770	713		713
216T	16" MJ Tee@107.75%	1.00	1.00 EA	1,803.200	1,943		1,943
22AIRV	Air Vent Galv @107.75%	1.00	2.00 EA	500.000	1,078		1,078
22POLY	2" HDPE Poly @107.75%	1.00	100.00 LF	2.110	227		227
3MISCP	Miscellaneous @107.75%	1.00	1.00 LS	1,500.000		1,616	1,616
\$15,600.70				[]	13,984	1,616	15,601

3000 CNC Concrete Materials Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

2CKBA	Thrust Block, @107.75%	1.00	8.00 EA	250.000	2,155		2,155
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2700.150 SG Sand & Gravel Quan: 3,200.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 4000

2ABS	Bedding Sand@107.75%	1.00	3,200.00 TON	4.350	14,999		14,999
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**Unreviewed

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 50	CLIENT# = 5									
Description =	16 Inch Waterline Materials less Pipe		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
====>	Item Totals: 50 - 16 Inch Waterline Materials less Pipe									
\$32,754.50				[]		31,138	1,616			32,755
32,754.500	1 LS					31,138.25	1,616.25			32,754.50

BID ITEM = 60	CLIENT# = 6									
Description =	16 Inch Waterline Installation		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000

2400.1	IPL Install Waterline			Quan:	4,687.00 LF	Hrs/Shft:	10.00	Cal:	510	WC: 6319	
<u>PWPL</u>	Water Pipe Laying Crew		156.23	CH	Prod:	300.0000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00	**Unreviewed
8EX200	200 Series Trackhoe	1.50	234.35	HR	141.020			33,048		33,048	
8L70	70 Series Loader	0.50	78.12	HR	104.600			8,171		8,171	
8MCW	Compaction Wheel	1.00	156.23	HR	48.280			7,543		7,543	
8MGB	Gravel Bin	1.00	156.23	HR	36.110			5,641		5,641	
8MTB	Trench Boxes	1.00	156.23	HR	6.750			1,055		1,055	
8MTP	Trench Plates	1.00	156.23	HR	1.500			234		234	
8TPU	Pickup Trucks	2.00	312.47	HR	23.710			7,409		7,409	
FP	Foreman Pipe	1.00	156.23	MH	38.000	14,036				14,036	
OP	Operator	1.00	156.23	MH	27.000	12,020				12,020	
PI	Pipelayer	1.00	156.23	MH	24.000	11,008				11,008	
PL	Pipelayer Lead	1.00	156.23	MH	26.000	11,413				11,413	
\$111,578.80	0.1333 MH/LF		624.92	MH	[4.217]	48,478		63,101		111,579	

2400.2	IPL 16" Fittings L&E			Quan:	8.00 EA	Hrs/Shft:	10.00	Cal:	510	WC: 6217	
<u>PF</u>	Pipe Fitting Crew Large		11.42	CH	Prod:	7.0000 US	Lab Pcs:	3.00	Eqp Pcs:	2.00	**Unreviewed
8EX200	200 Series Trackhoe	1.00	11.43	HR	141.020			1,612		1,612	
8TPU	Pickup Trucks	1.00	11.43	HR	23.710			271		271	
FP	Foreman Pipe	1.00	11.43	MH	38.000	1,027				1,027	
PI	Pipelayer	1.00	11.43	MH	24.000	805				805	
PL	Pipelayer Lead	1.00	11.43	MH	26.000	835				835	
\$4,550.11	4.2862 MH/EA		34.29	MH	[138.303]	2,667		1,883		4,550	

2610	PT Pressure Test			Quan:	25.00 HR	Hrs/Shft:	10.00	Cal:	510	WC: 6319	
<u>PT</u>	Pressure Testing Crew		25.00	CH	Prod:	10.0000 US	Lab Pcs:	2.00	Eqp Pcs:	1.75	**Unreviewed
8PTP	Trash Pumps	0.50	12.50	HR	27.595			345		345	
8TPU	Pickup Trucks	1.00	25.00	HR	23.710			593		593	
8TWT	Water Truck	0.25	6.25	HR	102.890			643		643	
FP	Foreman Pipe	1.00	25.00	MH	38.000	2,246				2,246	
PI	Pipelayer	1.00	25.00	MH	24.000	1,762				1,762	
\$5,588.33	2.0000 MH/HR		50.00	MH	[68.2]	4,008		1,581		5,588	

2750.150	H Hauling			Quan:	3,200.00 TON	Hrs/Shft:	10.00	Cal:	510	WC: 4000	
<u>HT</u>	Hauling Truck & Pup Crew		128.00	CH	Prod:	250.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	**Unreviewed
8TTP	Dump Truck & Pup	1.00	128.00	HR	109.700			14,042		14,042	
DR	Driver	1.00	128.00	MH	28.000	9,928				9,928	
\$23,969.92	0.0400 MH/TON		128.00	MH	[1.232]	9,928		14,042		23,970	

2760.150	HO Haul Onsite			Quan:	213.00 LOA	Hrs/Shft:	10.00	Cal:	510	WC: 4000	
<u>HO</u>	Haul Off Truck Only		142.00	CH	Prod:	15.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	**Unreviewed
8TED	End Dump	1.00	142.00	HR	94.070			13,358		13,358	
DR	Driver	1.00	142.00	MH	28.000	11,014				11,014	
\$24,372.17	0.6666 MH/LOAD		142.00	MH	[20.533]	11,014		13,358		24,372	

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 60	CLIENT# = 6									
Description =	16 Inch Waterline Installation		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
====> Item Totals: 60	- 16 Inch Waterline Installation									
\$170,059.33	979.2100 MH/LS	979.21 MH	[30890.51]	76,095				93,964		170,059
170,059.330	1 LS			76,095.05				93,964.28		170,059.33

BID ITEM = 70	CLIENT# = 7									
Description =	24 Inch Waterline Materials less Pipe		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000

2400	IPL Irrigation Pipe Laying	Quan: 1.00 LS	Hrs/Shft: 10.00	Cal: 510	WC: 6229
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2242SAD	24" x 2" Saddl@107.75%	1.00	3.00 EA	350.000	1,131		1,131
22445	24" MJ 45 Bend@107.75%	1.00	7.00 EA	2,206.760	16,644		16,644
22490	24" MJ 90 Bend@107.75%	1.00	1.00 EA	3,325.950	3,584		3,584
224BFV	24" MJ Butterf@107.75%	1.00	1.00 EA	13,352.940	14,388		14,388
224FP	24" Flange Pac@107.75%	1.00	6.00 EA	195.540	1,264		1,264
224MLD	24" Megalug DI@107.75%	1.00	8.00 EA	576.630	4,971		4,971
224SAD	24" x 3" Saddl@107.75%	1.00	1.00 EA	450.000	485		485
224SL	24" MJ Sleeve@107.75%	1.00	2.00 EA	1,736.510	3,742		3,742
224T2	24" Flg Tee@107.75%	1.00	1.00 EA	6,852.500	7,384		7,384
22BV	2" Ball Valve@107.75%	1.00	3.00 EA	150.000	485		485
22MA	2" Male Adapte@107.75%	1.00	7.00 EA	150.000	1,131		1,131
22POLY	2" HDPE Poly @107.75%	1.00	100.00 LF	2.110	227		227
230RCP	30" RCP@107.75%	1.00	8.00 LF	50.000	431		431
236CASINGSP	36 Inch Casing@107.75%	1.00	24.00 EA	285.000	7,370		7,370
236ENDSEALS	36 Inch End Se@107.75%	1.00	2.00 EA	250.000	539		539
23AVA	3" Air Vac Ass@107.75%	1.00	1.00 EA	2,000.000	2,155		2,155
2AIRRELEASE	Air Realses@107.75%	1.00	3.00 EA	750.000	2,424		2,424
2AIRV	Air Valve Manh@107.75%	1.00	1.00 EA	2,500.000	2,694		2,694
2DT	Detect Tape@107.75%	1.00	7.00 EA	100.000	754		754
2POLYS	Polywrap - 20@107.75%	1.00	7,542.00 LF	0.480	3,901		3,901
2SUMP	Sump Manhole@107.75%	1.00	2.00 EA	1,500.000	3,233		3,233
2TW	Tracer Wire@107.75%	1.00	7,500.00 LF	0.250	2,020		2,020
2VB	Valve Box Asse@107.75%	1.00	4.00 EA	125.000	539		539
3MISCP	Miscellaneous @107.75%	1.00	1.00 LS	2,500.000		2,694	2,694
\$84,189.59				[]	81,496	2,694	84,190

3000	CNC Concrete Materials	Quan: 1.00 LS	Hrs/Shft: 10.00	Cal: 510	WC: 5213
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2CKBA	Thrust Block, @107.75%	1.00	15.00 EA	250.000	4,041		**Unreviewed 4,041
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2700.150	SG Sand & Gravel	Quan: 10,000.00 TON	Hrs/Shft: 10.00	Cal: 510	WC: 4000
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2ABS	Bedding Sand@107.75%	1.00	5,000.00 TON	4.350	23,436		23,436
2ARB	Road Base Stat@107.75%	1.00	5,000.00 TON	7.950	42,831		42,831
\$66,266.26				[]	66,266		66,266

====> Item Totals: 70	- 24 Inch Waterline Materials less Pipe									
\$154,496.48				[]	151,803	2,694		154,496		
154,496.480	1 LS				151,802.73	2,693.75				154,496.48

BID ITEM = 80	CLIENT# = 8									
Description =	24 Inch Waterline Installation		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000

2400.1	IPL 24 Inch Install	Quan: 6,000.00 LF	Hrs/Shft: 10.00	Cal: 510	WC: 6217
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**Unreviewed

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub- Contract	Total
BID ITEM = 80 CLIENT# = 8										
Description =	24 Inch Waterline Installation		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	1.000		
<u>PWPL</u>	Water Pipe Laying Crew		300.00	CH	Prod:	200.0000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00
8EX200	200 Series Trackhoe	1.50	450.00	HR	141.020			63,459		63,459
8L70	70 Series Loader	0.50	150.00	HR	104.600			15,690		15,690
8MCW	Compaction Wheel	1.00	300.00	HR	48.280			14,484		14,484
8MGB	Gravel Bin	1.00	300.00	HR	36.110			10,833		10,833
8MTB	Trench Boxes	1.00	300.00	HR	6.750			2,025		2,025
8MTP	Trench Plates	1.00	300.00	HR	1.500			450		450
8TPU	Pickup Trucks	2.00	600.00	HR	23.710			14,226		14,226
FP	Foreman Pipe	1.00	300.00	MH	38.000	26,952				26,952
OP	Operator	1.00	300.00	MH	27.000	23,082				23,082
PI	Pipelay	1.00	300.00	MH	24.000	21,139				21,139
PL	Pipelay Lead	1.00	300.00	MH	26.000	21,916				21,916
\$214,256.00	0.2000 MH/LF		1,200.00	MH	[6.325]	93,089		121,167		214,256
2400.2 IPL Install Pipe in Casing Quan: 171.00 LF Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>PWPL</u>	Water Pipe Laying Crew		50.00	CH	Prod:	34.2000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00
8EX200	200 Series Trackhoe	1.50	75.00	HR	141.020			10,577		10,577
8L70	70 Series Loader	0.50	25.00	HR	104.600			2,615		2,615
8MCW	Compaction Wheel	1.00	50.00	HR	48.280			2,414		2,414
8MGB	Gravel Bin	1.00	50.00	HR	36.110			1,806		1,806
8MTB	Trench Boxes	1.00	50.00	HR	6.750			338		338
8MTP	Trench Plates	1.00	50.00	HR	1.500			75		75
8TPU	Pickup Trucks	2.00	100.00	HR	23.710			2,371		2,371
FP	Foreman Pipe	1.00	50.00	MH	38.000	4,492				4,492
OP	Operator	1.00	50.00	MH	27.000	3,847				3,847
PI	Pipelay	1.00	50.00	MH	24.000	3,523				3,523
PL	Pipelay Lead	1.00	50.00	MH	26.000	3,653				3,653
\$35,709.33	1.1695 MH/LF		200.00	MH	[36.988]	15,515		20,195		35,709
2400.3 IPL Connection to Existing Quan: 2.00 EA Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>PWPL</u>	Water Pipe Laying Crew		50.00	CH	Prod:	0.4000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00
8EX200	200 Series Trackhoe	1.50	75.00	HR	141.020			10,577		10,577
8L70	70 Series Loader	0.50	25.00	HR	104.600			2,615		2,615
8MCW	Compaction Wheel	1.00	50.00	HR	48.280			2,414		2,414
8MGB	Gravel Bin	1.00	50.00	HR	36.110			1,806		1,806
8MTB	Trench Boxes	1.00	50.00	HR	6.750			338		338
8MTP	Trench Plates	1.00	50.00	HR	1.500			75		75
8TPU	Pickup Trucks	2.00	100.00	HR	23.710			2,371		2,371
FP	Foreman Pipe	1.00	50.00	MH	38.000	4,492				4,492
OP	Operator	1.00	50.00	MH	27.000	3,847				3,847
PI	Pipelay	1.00	50.00	MH	24.000	3,523				3,523
PL	Pipelay Lead	1.00	50.00	MH	26.000	3,653				3,653
\$35,709.33	100.0000 MH/EA		200.00	MH	[3162.5]	15,515		20,195		35,709
2400.4 IPL Drains Quan: 3.00 EA Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>PF</u>	Pipe Fitting Crew Large		30.00	CH	Prod:	1.0000 US	Lab Pcs:	3.00	Eqp Pcs:	2.00
8EX200	200 Series Trackhoe	1.00	30.00	HR	141.020			4,231		4,231
8TPU	Pickup Trucks	1.00	30.00	HR	23.710			711		711
FP	Foreman Pipe	1.00	30.00	MH	38.000	2,695				2,695
PI	Pipelay	1.00	30.00	MH	24.000	2,114				2,114
PL	Pipelay Lead	1.00	30.00	MH	26.000	2,192				2,192
\$11,942.62	30.0000 MH/EA		90.00	MH	[968]	7,001		4,942		11,943
2400.5 IPL Pumphouse Pipeline Quan: 300.00 LF Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>PWPL</u>	Water Pipe Laying Crew		50.00	CH	Prod:	60.0000 US	Lab Pcs:	4.00	Eqp Pcs:	8.00

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 80 CLIENT# = 8											
Description =	24 Inch Waterline Installation		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	1.000			
8EX200	200 Series Trackhoe	1.50	75.00 HR		141.020				10,577		10,577
8L70	70 Series Loader	0.50	25.00 HR		104.600				2,615		2,615
8MCW	Compaction Wheel	1.00	50.00 HR		48.280				2,414		2,414
8MGB	Gravel Bin	1.00	50.00 HR		36.110				1,806		1,806
8MTB	Trench Boxes	1.00	50.00 HR		6.750				338		338
8MTP	Trench Plates	1.00	50.00 HR		1.500				75		75
8TPU	Pickup Trucks	2.00	100.00 HR		23.710				2,371		2,371
FP	Foreman Pipe	1.00	50.00 MH		38.000	4,492					4,492
OP	Operator	1.00	50.00 MH		27.000	3,847					3,847
PI	Pipelay	1.00	50.00 MH		24.000	3,523					3,523
PL	Pipelay Lead	1.00	50.00 MH		26.000	3,653					3,653
\$35,709.33	0.6666 MH/LF		200.00 MH		[21.083]	15,515			20,195		35,709
2400.6 IPL Fittings Quan: 25.00 EA Hrs/Shft: 10.00 Cal: 510 WC: 6217											
											**Unreviewed
<u>PF</u>	Pipe Fitting Crew Large		50.00 CH		Prod:	5.0000 US	Lab Pcs:	3.00	Eqp Pcs:	2.00	
8EX200	200 Series Trackhoe	1.00	50.00 HR		141.020			7,051		7,051	
8TPU	Pickup Trucks	1.00	50.00 HR		23.710			1,186		1,186	
FP	Foreman Pipe	1.00	50.00 MH		38.000	4,492				4,492	
PI	Pipelay	1.00	50.00 MH		24.000	3,523				3,523	
PL	Pipelay Lead	1.00	50.00 MH		26.000	3,653				3,653	
\$19,904.35	6.0000 MH/EA		150.00 MH		[193.6]	11,668		8,237		19,904	
2910 MP Milling/Pulverize Quan: 3,000.00 LF Hrs/Shft: 10.00 Cal: 510 WC: 5516											
<u>AMC</u>	Asphalt Milling Crew Bomag		30.00 CH		Prod:	1,000.0000 US	Lab Pcs:	1.25	Eqp Pcs:	2.10	
8MBZ	Bomag Zipper	1.00	30.00 HR		259.880			7,796		7,796	
8TPU	Pickup Trucks	1.00	30.00 HR		23.710			711		711	
8TWT	Water Truck	0.10	3.00 HR		102.890			309		309	
FD	Foreman Driver	1.00	30.00 MH		31.000	1,383				1,383	
PI	Pipelay	0.25	7.50 MH		24.000	528				528	
\$10,727.58	0.0125 MH/LF		37.50 MH		[0.407]	1,911		8,816		10,728	
2610 PT Pressure Test Quan: 50.00 HR Hrs/Shft: 10.00 Cal: 510 WC: 6319											
											**Unreviewed
<u>PT</u>	Pressure Testing Crew		50.00 CH		Prod:	10.0000 US	Lab Pcs:	2.00	Eqp Pcs:	1.75	
8PTP	Trash Pumps	0.50	25.00 HR		27.595			690		690	
8TPU	Pickup Trucks	1.00	50.00 HR		23.710			1,186		1,186	
8TWT	Water Truck	0.25	12.50 HR		102.890			1,286		1,286	
FP	Foreman Pipe	1.00	50.00 MH		38.000	4,492				4,492	
PI	Pipelay	1.00	50.00 MH		24.000	3,523				3,523	
\$11,176.64	2.0000 MH/HR		100.00 MH		[68.2]	8,015		3,161		11,177	
2750.150 H Hauling Quan: 10,000.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 4000											
											**Unreviewed
<u>HT</u>	Hauling Truck & Pup Crew		400.00 CH		Prod:	250.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	
8TTP	Dump Truck & Pup	1.00	400.00 HR		109.700			43,880		43,880	
DR	Driver	1.00	400.00 MH		28.000	31,026				31,026	
\$74,906.00	0.0400 MH/TON		400.00 MH		[1.232]	31,026		43,880		74,906	
2760.150 HO Haul Onsite Quan: 400.00 LOA Hrs/Shft: 10.00 Cal: 510 WC: 4000											
											**Unreviewed
<u>HO</u>	Haul Off Truck Only		400.00 CH		Prod:	10.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	
8TED	End Dump	1.00	400.00 HR		94.070			37,628		37,628	
DR	Driver	1.00	400.00 MH		28.000	31,026				31,026	
\$68,654.00	1.0000 MH/LOAD		400.00 MH		[30.8]	31,026		37,628		68,654	
=====> Item Totals: 80 - 24 Inch Waterline Installation											
\$518,695.18	2,977.5000 MH/LS		2,977.50 MH		[93940]	230,280		288,415		518,695	

Activity	Resource	Desc	Pcs	Quantity	Unit	MH/Unit	Unit Cost	Labor	Perm	Constr	Equip	Sub-Contract	Total
BID ITEM = 80 CLIENT# = 8													
Description =		24 Inch Waterline Installation			Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		1.000
518,695.180		1 LS					230,280.42				288,414.76		518,695.18
BID ITEM = 90 CLIENT# = 9													
Description =		Asphalt Paving			Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		1.000
2930		AP Asphalt Prep Trench Patch					Quan:	21,000.00 SF	Hrs/Shft:	10.00	Cal: 510	WC: 5516	
<u>APLC</u>		Asphalt Prep Crew Large			20.00	CH	Prod: 10,500.0000 US		Lab Pcs:		4.00	Eqp Pcs:	2.60
8LSL		Skid Loader			0.50	10.00 HR	66.750					668	668
8MAM		Asphalt Mill Machine			0.50	10.00 HR	712.980					7,130	7,130
8RDD		Double Drum Roller			0.50	10.00 HR	77.260					773	773
8TPU		Pickup Trucks			1.00	20.00 HR	23.710					474	474
8TWT		Water Truck			0.10	2.00 HR	102.890					206	206
FP		Foreman Pipe			1.00	20.00 MH	38.000		1,797				1,797
OL		Foreman Earthwork			1.00	20.00 MH	36.000		1,656				1,656
OP		Operator			1.00	20.00 MH	27.000		1,539				1,539
PL		Pipelayer Lead			1.00	20.00 MH	26.000		1,461				1,461
\$15,702.54		0.0038 MH/SF			80.00 MH		[0.133]		6,453			9,250	15,703
2900		ASPH Asphalt					Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5516	
4MOBA		Asphalt Mob			1.00	2.00 EA	1,200.000					2,400	2,400
4PAV2		Paving 2 Inch Overlay			1.00	60,400.00 SF	0.970					58,588	58,588
4PAVP		Paving 1 Inch Patch			1.00	21,000.00 SF	0.720					15,120	15,120
\$76,108.00							[]					76,108	76,108
=====>		Item Totals:		90	- Asphalt Paving								
\$91,810.54		80.0000 MH/LS			80.00 MH		[2794]	6,453			9,250	76,108	91,811
91,810.540		1 LS					6,452.66				9,249.88	76,108.00	91,810.54
PARENT ITEM = 100 CLIENT# = 10													
Description =		Pump Station Complete			Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		1.000
Listing of Sub-Biditems of Parent Item 100:													
BID ITEM = 110													
Description =		Chainlink Fence			Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		0.000
2060		FE Chainlink Fencing					Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
4FENCECHAIN		Fencing Chainlink			1.00	687.00 LF	55.423					38,076	**Unreviewed 38,076
BID ITEM = 120													
Description =		Masonry			Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		0.000
4000		MAS Masonry					Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 8227	
3MISCMASON		Misc Masonry@107.75%			1.00	1.00 LS	5,000.000				5,388		5,388
4MASONRY		Masonry			1.00	2,274.00 SF	23.650					53,780	53,780
\$59,167.60							[]				5,388	53,780	59,168

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 120										
Description =	Masonry		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
=====>	Item Totals:	120	- Masonry							
\$59,167.60				[]			5,388	53,780		59,168
59,167.600		1 LS					5,387.50	53,780.10		59,167.60
BID ITEM = 130										
Description =	Framing		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
6100	F Framing		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213		
4FRAMING	Framing	1.00	2,157.00 SF	26.440				57,031		**Unreviewed 57,031
BID ITEM = 140										
Description =	Roofing		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
6200	IN Roofing L&E		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213		
4ROOFING	Roofing	1.00	2,157.00 LS	29.420				63,459		**Unreviewed 63,459
4SNOWGUARDS	Snow Guards	1.00	1.00 LS	400.000				400		400
\$63,858.94				[]				63,859		63,859
=====>	Item Totals:	140	- Roofing							
\$63,858.94				[]				63,859		63,859
63,858.940		1 LS						63,858.94		63,858.94
BID ITEM = 150										
Description =	Insulation		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
6200	IN Insulation		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213		
4INSULATE	Insulation	1.00	1.00 LS	5,185.000				5,185		**Unreviewed 5,185
BID ITEM = 160										
Description =	Aluminum Siding Ceiling		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
6000	IF Aluminum Siding Ceiling		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213		
4ALUMINCEIL	Aluminum Siding Roof	1.00	1,800.00 SF	1.000				1,800		**Unreviewed 1,800
BID ITEM = 170										
Description =	Skylights		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
6200	IN Skylights		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213		
4SKYLIGHTS	Skylights	1.00	7.00 EA	564.000				3,948		**Unreviewed 3,948

Activity	Resource	Desc	Pcs	Quantity	Unit	MH/Unit	Unit Cost	Labor	Perm	Material	Constr	Matl/Exp	Equip	Sub-	Contract	Total
BID ITEM	=	180														
Description =	Sealants				Unit =	LS		Takeoff	Quan:		1.000		Engr	Quan:		0.000
6200	IN Sealants				Quan:	1.00 LS		Hrs/Shft:	10.00	Cal:	510	WC:	5213			
4SEALANTS	Sealants	1.00	1.00	LS		500.000								500		**Unreviewed 500
BID ITEM	=	190														
Description =	Doors HM				Unit =	LS		Takeoff	Quan:		1.000		Engr	Quan:		0.000
6300	DAW Door HM				Quan:	1.00 EA		Hrs/Shft:	10.00	Cal:	510	WC:	5213			
2DOORSHM	Doors HM@107.75%	1.00	3.00	EA		2,800.670			9,053							**Unreviewed 9,053
4DOORINSTALL	Door Install	1.00	3.00	EA		457.340								1,372		1,372
\$10,425.19						[]			9,053					1,372		10,425
=====	Item Totals:	190	-	Doors HM												
\$10,425.19						[]			9,053					1,372		10,425
10,425.190		1 LS							9,053.17					1,372.02		10,425.19
BID ITEM	=	200														
Description =	Coiling Door				Unit =	LS		Takeoff	Quan:		1.000		Engr	Quan:		0.000
6300	DAW Coiling Door				Quan:	1.00 LS		Hrs/Shft:	10.00	Cal:	510	WC:	5213			
4COILDR10X10	Coiling Door 10' x 10'	1.00	1.00	LS		9,161.000								9,161		**Unreviewed 9,161
BID ITEM	=	210														
Description =	HVAC				Unit =	LS		Takeoff	Quan:		1.000		Engr	Quan:		0.000
7400	HVAC				Quan:	1.00 LS		Hrs/Shft:	10.00	Cal:	510	WC:	5183			
2LOUVER	Louvers@107.75%	1.00	1.00	LS		5,314.420			5,726							**Unreviewed 5,726
2THERMOSTAT	Thermostat@107.75%	1.00	1.00	EA		5,314.420			5,726							5,726
2UNITHEATER	Unit Heaters@107.75%	1.00	2.00	EA		5,314.420			11,453							11,453
3MISCHVAC	MISC HVAC@107.75%	1.00	1.00	LS		5,314.420				5,726						5,726
\$28,631.45						[]			22,905	5,726						28,631
7400.1	HVAC L&E				Quan:	1.00 LS		Hrs/Shft:	10.00	Cal:	510	WC:	6217			
PF12	Pipe Fitting with Machine			60.00	CH	Prod:		0.1667	US	Lab	Pcs:	3.00	Eqp	Pcs:		1.00
8TPU	Pickup Trucks	1.00	60.00	HR		23.710						1,423				1,423
FP	Foreman Pipe	1.00	60.00	MH		38.000		5,390								5,390
PL	Pipelayer Lead	2.00	120.00	MH		26.000		8,766								8,766
\$15,579.49	180.0000 MH/LS		180.00	MH		[5940]		14,157				1,423				15,579
=====	Item Totals:	210	-	HVAC												
\$44,210.94	180.0000 MH/LS		180.00	MH		[5940]		14,157	22,905	5,726		1,423				44,211
44,210.940	1 LS							14,156.89	22,905.16	5,726.29		1,422.60				44,210.94

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 220											
Description =	Electrical		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	0.000			
3000	CNC Concrete Materials transformer pad		Quan:	5.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 5213			
2C65	Concrete 6.5-B@107.75%	1.00	5.00 CY		166.000		894				894
3MISCC	Miscellaneous @107.75%	1.00	0.50 LS		1,500.000			808			808
\$1,702.46					[]		894	808			1,702
3000.2	CNC Transformer pad		Quan:	5.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 6217			
<u>CF2</u>	Concrete Foreman +2 Guys			12.50 CH	Prod:	4.0000 US	Lab Pcs:	3.00	Eqp Pcs:	1.00	
8TPU	Pickup Trucks	1.00	12.50 HR		23.710			296			296
FC	Foreman Concrete	1.00	12.50 MH		36.000	1,031					1,031
LC	Concrete Laborer	2.00	25.00 MH		26.000	1,669					1,669
\$2,996.08	7.5000 MH/CY		37.50 MH		[242]	2,700		296			2,996
7900.2	Instrumentation		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217			
2INST	Instrumentatio@107.75%	1.00	1.00 LS		45,162.000		48,662				48,662
										**Unreviewed	
7900	ELC Electrical Complete		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6325			
4ELE	Electrical Subcontractor	1.00	1.00 LS		317,420.000				317,420		317,420
										**Unreviewed	
7900.1	ELC Duct Bank		Quan:	1.00 LF	Hrs/Shft:	10.00	Cal: 510	WC: 6217			
<u>EX1</u>	Excavation Crew + Loader			50.00 CH	Prod:	0.2000 US	Lab Pcs:	3.00	Eqp Pcs:	3.00	
8EX200	200 Series Trackhoe	1.00	50.00 HR		141.020			7,051			7,051
8L70	70 Series Loader	1.00	50.00 HR		104.600			5,230			5,230
8TPU	Pickup Trucks	1.00	50.00 HR		23.710			1,186			1,186
FP	Foreman Pipe	1.00	50.00 MH		38.000	4,492					4,492
OP	Operator	1.00	50.00 MH		27.000	3,847					3,847
PI	Pipelayer	1.00	50.00 MH		24.000	3,523					3,523
\$25,328.63	150.0000 MH/LF		150.00 MH		[4895]	11,862		13,467			25,329
2700.150	SG Sand & Gravel		Quan:	1.00 TON	Hrs/Shft:	10.00	Cal: 510	WC: 4000			
2ABS	Bedding Sand@107.75%	1.00	300.00 TON		4.350		1,406				1,406
										**Unreviewed	
2750.150	H Hauling		Quan:	300.00 TON	Hrs/Shft:	10.00	Cal: 510	WC: 4000			
<u>HT</u>	Hauling Truck & Pup Crew			15.87 CH	Prod:	189.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	
8TTP	Dump Truck & Pup	1.00	15.87 HR		109.700			1,741			1,741
DR	Driver	1.00	15.87 MH		28.000	1,231					1,231
\$2,971.89	0.0529 MH/TON		15.87 MH		[1.629]	1,231		1,741			2,972
2760.150	HO Haul Off		Quan:	1.00 LOA	Hrs/Shft:	10.00	Cal: 510	WC: 4000			
<u>HO</u>	Haul Off Truck Only			1.00 CH	Prod:	10.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00	
8TED	End Dump	1.00	1.00 HR		94.070			94			94
DR	Driver	1.00	1.00 MH		28.000	78					78
\$171.63	1.0000 MH/LOAD		1.00 MH		[30.8]	78		94			172
====>	Item Totals:	220	- Electrical								
\$400,658.89	204.3700 MH/LS		204.37 MH		[6624.6]	15,870	50,963	808	15,598	317,420	400,659
400,658.890	1 LS					15,870.36	50,962.53	808.13	15,597.87	317,420.00	400,658.89

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 230											
Description =	Erosion Control				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2070.2	SFC SWPPP, Inlet Protection, Sub		Quan:		1.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
4SWPI	Swppp Inlet Protection Sub	1.00	2.00 EA		100.000					200	200
											**Unreviewed
2070.4	SFC SWPPP, Silt Fence, Sub		Quan:		1.00 LF	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
4SWPSF	Swppp Silt Fence Sub	1.00	200.00 LF		2.750					550	550
											**Unreviewed
2070.8	SFC Concrete Washout		Quan:		1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
4CONCWASHOU	Concrete Washout	1.00	1.00 LS		500.000					500	500
											**Unreviewed
=====>	Item Totals:	230	- Erosion Control								
\$1,250.00					[]					1,250	1,250
1,250.000		1 LS								1,250.00	1,250.00

BID ITEM = 240											
Description =	Rough Grading				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2010	RG Rough Grading Site		Quan:		1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>EX1</u>	Excavation Crew + Loader			10.00 CH	Prod:	1.0000 US	Lab Pcs:	3.00	Eqp Pcs:	3.00	**Unreviewed
8EX200	200 Series Trackhoe	1.00	10.00 HR		141.020			1,410		1,410	
8L70	70 Series Loader	1.00	10.00 HR		104.600			1,046		1,046	
8TPU	Pickup Trucks	1.00	10.00 HR		23.710			237		237	
FP	Foreman Pipe	1.00	10.00 MH		38.000	898				898	
OP	Operator	1.00	10.00 MH		27.000	769				769	
PI	Pipelayer	1.00	10.00 MH		24.000	705				705	
\$5,065.74	30.0000 MH/LS		30.00 MH		[979]	2,372		2,693		5,066	
=====>	Item Totals:	240	- Rough Grading								
\$5,065.74	30.0000 MH/LS		30.00 MH		[979]	2,372		2,693		5,066	
5,065.740	1 LS					2,372.44		2,693.30		5,065.74	

BID ITEM = 250											
Description =	Final Grading				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2000	SWC Berm Detail		Quan:		225.00 LF	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>EX1</u>	Excavation Crew + Loader			15.00 CH	Prod:	150.0000 US	Lab Pcs:	3.00	Eqp Pcs:	4.00	
8EX200	200 Series Trackhoe	1.00	15.00 HR		141.020			2,115		2,115	
8L70	70 Series Loader	1.00	15.00 HR		104.600			1,569		1,569	
8MJJ	Jumping Jack/Plate Com	1.00	15.00 HR		5.960			89		89	
8TPU	Pickup Trucks	1.00	15.00 HR		23.710			356		356	
FP	Foreman Pipe	1.00	15.00 MH		38.000	1,348				1,348	
OP	Operator	1.00	15.00 MH		27.000	1,154				1,154	
PI	Pipelayer	1.00	15.00 MH		24.000	1,057				1,057	
\$7,688.00	0.2000 MH/LF		45.00 MH		[6.527]	3,559		4,129		7,688	
2000.1	SWC UTBC Around Bldg		Quan:		5,200.00 SF	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>GRBS</u>	Grade Sub-grade RB Small			20.00 CH	Prod:	2,600.0000 US	Lab Pcs:	2.00	Eqp Pcs:	2.25	

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 250											
Description =	Final Grading				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
8LSL	Skid Loader	1.00	20.00	HR	66.750				1,335		1,335
8RSD	Smooth Drum Rollers	0.25	5.00	HR	77.260				386		386
8TPU	Pickup Trucks	1.00	20.00	HR	23.710				474		474
OL	Foreman Earthwork	1.00	20.00	MH	36.000	1,656					1,656
OP	Operator	1.00	20.00	MH	27.000	1,539					1,539
\$5,390.28	0.0076 MH/SF		40.00	MH	[0.267]	3,195			2,196		5,390
2010 RG Grading Final											
			Quan:		1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>GRSW</u>	Grade Sidewalk Crew			10.00	CH	Prod:	1.0000 US	Lab Pcs:	5.10	Eqp Pcs:	4.35
8L70	70 Series Loader	1.00	10.00	HR	104.600				1,046		1,046
8LSL	Skid Loader	1.00	10.00	HR	66.750				668		668
8RSD	Smooth Drum Rollers	0.25	2.50	HR	77.260				193		193
8TPU	Pickup Trucks	2.00	20.00	HR	23.710				474		474
8TWT	Water Truck	0.10	1.00	HR	102.890				103		103
DR	Driver	0.10	1.00	MH	28.000	78					78
OL	Foreman Earthwork	1.00	10.00	MH	36.000	828					828
OP	Operator	2.00	20.00	MH	27.000	1,539					1,539
PI	Pipelayer	2.00	20.00	MH	24.000	1,409					1,409
\$6,337.33	51.0000 MH/LS		51.00	MH	[1548.8]	3,854			2,484		6,337
2700.150 SG Sand & Gravel											
			Quan:		200.00 TON	Hrs/Shft:	10.00	Cal: 510	WC: 4000		
2ARB	Road Base Stat@107.75%	1.00	200.00	TON	7.950	1,713					1,713
2750.150 H Hauling											
			Quan:		200.00 TON	Hrs/Shft:	10.00	Cal: 510	WC: 4000		
<u>HT</u>	Hauling Truck & Pup Crew			10.58	CH	Prod:	189.0000 US	Lab Pcs:	1.00	Eqp Pcs:	1.00
8TTP	Dump Truck & Pup	1.00	10.58	HR	109.700				1,161		1,161
DR	Driver	1.00	10.58	MH	28.000	821					821
\$1,981.26	0.0529 MH/TON		10.58	MH	[1.629]	821			1,161		1,981
====> Item Totals: 250 - Final Grading											
\$23,110.10	146.5800 MH/LS		146.58	MH	[4729.16]	11,428	1,713		9,969		23,110
23,110.100	1 LS					11,427.66	1,713.23		9,969.21		23,110.10

BID ITEM = 260											
Description =	Excavation/Backfill				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2080 EXS Excavate Structure											
			Quan:		1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>EX1</u>	Excavation Crew + Loader			10.00	CH	Prod:	1.0000 US	Lab Pcs:	3.00	Eqp Pcs:	3.00
8EX200	200 Series Trackhoe	1.00	10.00	HR	141.020				1,410		1,410
8L70	70 Series Loader	1.00	10.00	HR	104.600				1,046		1,046
8TPU	Pickup Trucks	1.00	10.00	HR	23.710				237		237
FP	Foreman Pipe	1.00	10.00	MH	38.000	898					898
OP	Operator	1.00	10.00	MH	27.000	769					769
PI	Pipelayer	1.00	10.00	MH	24.000	705					705
\$5,065.74	30.0000 MH/LS		30.00	MH	[979]	2,372			2,693		5,066
2080.1 EXS Pump Cans Excavation											
			Quan:		2.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217		
<u>EX</u>	Excavation Crew Small			30.00	CH	Prod:	0.6667 US	Lab Pcs:	3.00	Eqp Pcs:	2.25
8EX200	200 Series Trackhoe	0.25	7.50	HR	141.020				1,058		1,058
8EX400	400 Series Trackhoe	0.75	22.50	HR	266.270				5,991		5,991
8MHB	200 Hydraulic Breaker	0.25	7.50	HR	97.520				731		731

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 260										
Description =	Excavation/Backfill		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
8TPU	Pickup Trucks	1.00	30.00 HR	23.710				711		711
FP	Foreman Pipe	1.00	30.00 MH	38.000	2,695					2,695
PI	Pipelay	2.00	60.00 MH	24.000	4,228					4,228
\$15,414.39	45.0000 MH/EA		90.00 MH	[1419]	6,923			8,491		15,414
2710 FWF Flowable Fill Quan: 110.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 4000										
2CFF	Flowable Fill@107.75%	1.00	110.00 CY	100.000		11,853				11,853
2800 BFST Backfill Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>EX2</u>	Excavation Backfill Crew		20.00 CH	Prod:	0.5000 US	Lab Pcs:		3.00	Eqp Pcs:	3.50
8EX200	200 Series Trackhoe	1.00	20.00 HR	141.020				2,820		2,820
8L70	70 Series Loader	0.50	10.00 HR	104.600				1,046		1,046
8MCW	Compaction Wheel	1.00	20.00 HR	48.280				966		966
8TPU	Pickup Trucks	1.00	20.00 HR	23.710				474		474
FP	Foreman Pipe	1.00	20.00 MH	38.000	1,797					1,797
OP	Operator	1.00	20.00 MH	27.000	1,539					1,539
PL	Pipelay Lead	1.00	20.00 MH	26.000	1,461					1,461
\$10,102.87	60.0000 MH/LS		60.00 MH	[2002]	4,797			5,306		10,103
====> Item Totals: 260 - Excavation/Backfill										
\$42,435.50	180.0000 MH/LS		180.00 MH	[5819]	14,092	11,853		16,491		42,436
42,435.500	1 LS				14,092.09	11,852.50		16,490.91		42,435.50
BID ITEM = 270										
Description =	Rock Base		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2010 RG Grading - 2 Mobilizations Quan: 1.00 SF Hrs/Shft: 10.00 Cal: 510 WC: 6217										
<u>GRSW</u>	Grade Sidewalk Crew		20.00 CH	Prod:	0.5000 US	Lab Pcs:		5.10	Eqp Pcs:	4.35
8L70	70 Series Loader	1.00	20.00 HR	104.600				2,092		2,092
8LSL	Skid Loader	1.00	20.00 HR	66.750				1,335		1,335
8RSD	Smooth Drum Rollers	0.25	5.00 HR	77.260				386		386
8TPU	Pickup Trucks	2.00	40.00 HR	23.710				948		948
8TWT	Water Truck	0.10	2.00 HR	102.890				206		206
DR	Driver	0.10	2.00 MH	28.000	155					155
OL	Foreman Earthwork	1.00	20.00 MH	36.000	1,656					1,656
OP	Operator	2.00	40.00 MH	27.000	3,078					3,078
PI	Pipelay	2.00	40.00 MH	24.000	2,819					2,819
\$12,674.70	102.0000 MH/SF		102.00 MH	[3097.6]	7,707			4,967		12,675
2700.150 SG Sand & Gravel Quan: 1.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 4000										
2ARB	Road Base Stat@107.75%	1.00	450.00 TON	7.950		3,855				3,855
2750.150 H Hauling Quan: 450.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 4000										
<u>HT</u>	Hauling Truck & Pup Crew		23.80 CH	Prod:	189.0000 US	Lab Pcs:		1.00	Eqp Pcs:	1.00
8TTP	Dump Truck & Pup	1.00	23.81 HR	109.700				2,612		2,612
DR	Driver	1.00	23.81 MH	28.000	1,847					1,847
\$4,458.76	0.0529 MH/TON		23.81 MH	[1.63]	1,847			2,612		4,459
====> Item Totals: 270 - Rock Base										
\$20,988.22	125.8100 MH/LS		125.81 MH	[3830.95]	9,554	3,855		7,579		20,988
20,988.220	1 LS				9,554.04	3,854.76		7,579.42		20,988.22

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
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PARENT ITEM = 280

Description = Concrete Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

Listing of Sub-Biditems of Parent Item 280:

BID ITEM = 281

Description = Rebar Unit = LS Takeoff Quan: 1.000 Engr Quan: 0.000

3000 CNC Rebar M&S Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

2REBARMTL	Rebar Material@107.75%	1.00	6.30 TONS		1,619.770		10,995				10,995
4REBARSUB	Rebar Labor	1.00	6.30 TONS		1,619.770					10,205	10,205
\$21,199.95					[]		10,995			10,205	21,200

**Unreviewed

3000.1 CNC Rebar Handling L&E Quan: 1.00 TON Hrs/Shft: 10.00 Cal: 510 WC: 6217

CF	Concrete Foreman + 1 Laborer		3.15 CH		Prod:	3.1746 US	Lab Pcs:	2.00	Eqp Pcs:	2.00
8MFL	Extended Reach Fork Li	1.00	3.15 HR		76.190			240		240
8TPU	Pickup Trucks	1.00	3.15 HR		23.710			75		75
FC	Foreman Concrete	1.00	3.15 MH		36.000	260				260
LC	Concrete Laborer	1.00	3.15 MH		26.000	210				210
\$784.73	6.3000 MH/TONS		6.30 MH		[214.83]	470		315		785

**Unreviewed

====> Item Totals: 281 - Rebar

\$21,984.68	6.3000 MH/LS		6.30 MH		[214.83]	470	10,995		315	10,205	21,985
21,984.680	1 LS					470.06	10,995.40		314.67	10,204.55	21,984.68

BID ITEM = 282

Description = Footings 1.67'x1'x176', 11 CY Unit = LS Takeoff Quan: 1.000 Engr Quan: 0.000

3000 CNC Concrete M Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

2C65	Concrete 6.5-B@107.75%	1.00	11.00 CY		166.000		1,968				1,968
3FORMS	Concrete Form @107.75%	1.00	11.00 CY		30.000			356			356
\$2,323.10					[]		1,968	356			2,323

**Unreviewed

3000.1 CNC Conc L&E Quan: 11.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 6217

CF3	Concrete Foreman + 3 Guys		22.00 CH		Prod:	5.0000 US	Lab Pcs:	4.00	Eqp Pcs:	2.00
8TPU	Pickup Trucks	2.00	44.00 HR		23.710			1,043		1,043
FC	Foreman Concrete	1.00	22.00 MH		36.000	1,814				1,814
LC	Concrete Laborer	3.00	66.00 MH		26.000	4,406				4,406
\$7,263.33	8.0000 MH/CY		88.00 MH		[250.8]	6,220		1,043		7,263

**Unreviewed

====> Item Totals: 282 - Footings 1.67'x1'x176', 11 CY

\$9,586.43	88.0000 MH/LS		88.00 MH		[2758.8]	6,220	1,968	356	1,043		9,586
9,586.430	1 LS					6,220.09	1,967.52	355.58	1,043.24		9,586.43

BID ITEM = 283

Description = Walls 8"x2'8"x176', 12 CY Unit = LS Takeoff Quan: 1.000 Engr Quan: 0.000

3000 CNC Concrete M Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

2C65	Concrete 6.5-B@107.75%	1.00	12.00 CY		166.000		2,146				2,146
3FORMS	Concrete Form @107.75%	1.00	12.00 CY		30.000			388			388
\$2,534.28					[]		2,146	388			2,534

**Unreviewed

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 283											
Description =	Walls 8"x2'8"x176', 12 CY				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000.1	CNC Conc L&E				Quan:	12.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
											**Unreviewed
<u>CF4</u>	Concrete Foreman + 4 Guys		21.17	CH	Prod:	5.6667 US	Lab Pcs:	5.00	Eqp Pcs:	2.00	
8TPU	Pickup Trucks	2.00	42.35	HR	23.710			1,004		1,004	
FC	Foreman Concrete	2.00	42.35	MH	36.000	3,493				3,493	
LC	Concrete Laborer	3.00	63.53	MH	26.000	4,241				4,241	
\$8,737.56	8.8233 MH/CY		105.88	MH	[291.168]	7,733		1,004		8,738	
=====> Item Totals: 283 - Walls 8"x2'8"x176', 12 CY											
\$11,271.84	105.8800 MH/LS		105.88	MH	[3494.02]	7,733	2,146	388	1,004		11,272
11,271.840	1 LS					7,733.45	2,146.38	387.90	1,004.11		11,271.84

BID ITEM = 284											
Description =	SOG 6"x 1775 SF, 33 CY				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000	CNC Concrete M				Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213	
											**Unreviewed
2C65	Concrete 6.5-B@107.75%	1.00	33.00	CY	166.000	5,903				5,903	
3FORMS	Concrete Form @107.75%	1.00	33.00	CY	30.000			1,067		1,067	
4SAWCUT	Sawcut Floor	1.00	200.00	LF	2.000				400	400	
\$7,369.28					[]	5,903		1,067	400	7,369	
3000.1	CNC Conc L&E				Quan:	38.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
											**Unreviewed
<u>CF3</u>	Concrete Foreman + 3 Guys		38.00	CH	Prod:	10.0000 US	Lab Pcs:	4.00	Eqp Pcs:	2.00	
8TPU	Pickup Trucks	2.00	76.00	HR	23.710			1,802		1,802	
FC	Foreman Concrete	1.00	38.00	MH	36.000	3,134				3,134	
LC	Concrete Laborer	3.00	114.00	MH	26.000	7,610				7,610	
\$12,545.74	4.0000 MH/CY		152.00	MH	[125.4]	10,744		1,802		12,546	
=====> Item Totals: 284 - SOG 6"x 1775 SF, 33 CY											
\$19,915.02	152.0000 MH/LS		152.00	MH	[4765.2]	10,744	5,903	1,067	1,802	400	19,915
19,915.020	1 LS					10,743.78	5,902.55	1,066.73	1,801.96	400.00	19,915.02

BID ITEM = 285											
Description =	Equipment Pads, 2 CY				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000	CNC Concrete M included pump can sleeper				Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213	
											**Unreviewed
2C65	Concrete 6.5-B@107.75%	1.00	25.00	CY	166.000	4,472				4,472	
3FORMS	Concrete Form @107.75%	1.00	25.00	CY	30.000			808		808	
\$5,279.76					[]	4,472		808		5,280	
3000.1	CNC Conc L&E				Quan:	25.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
											**Unreviewed
<u>CF3</u>	Concrete Foreman + 3 Guys		125.00	CH	Prod:	2.0000 US	Lab Pcs:	4.00	Eqp Pcs:	2.00	
8TPU	Pickup Trucks	2.00	250.00	HR	23.710			5,928		5,928	
FC	Foreman Concrete	1.00	125.00	MH	36.000	10,309				10,309	
LC	Concrete Laborer	3.00	375.00	MH	26.000	25,033				25,033	
\$41,268.89	20.0000 MH/CY		500.00	MH	[627]	35,341		5,928		41,269	
=====> Item Totals: 285 - Equipment Pads, 2 CY											
\$46,548.65	500.0000 MH/LS		500.00	MH	[15675]	35,341	4,472	808	5,928		46,549

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
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BID ITEM = 285

Description =	Equipment Pads, 2 CY	Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	0.000	
46,548.650	1 LS			35,341.39	4,471.63	808.13	5,927.50	46,548.65

BID ITEM = 286

Description =	Sidewalk & Stoops 165 SF	Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	0.000
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3000 CNC Concrete M Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

14'x10'x 0.5 = 2.5 CY OHD pad; Mandoor single 6x4x0.5 = 0.5CY; Mandoor Double 10x4x0.5= 1CY Total = 4 CY										**Unreviewed
2C65	Concrete 6.5-B@107.75%	1.00	6.00 CY	166.000		1,073				1,073
3FORMS	Concrete Form @107.75%	1.00	6.00 CY	30.000			194			194
4SAW	Conc/ACP Sawing Sub	1.00	100.00 LF	2.000					200	200
\$1,467.14				[]		1,073	194		200	1,467

3000.1 CNC Conc L&E Quan: 1.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 6217

										Unreviewed	
CF4	Concrete Foreman + 4 Guys		10.00	CH	Prod:	1.0000	US	Lab Pcs:	5.00	Eqp Pcs:	2.00
8TPU	Pickup Trucks	2.00	20.00	HR	23.710				474		474
FC	Foreman Concrete	2.00	20.00	MH	36.000	1,649					1,649
LC	Concrete Laborer	3.00	30.00	MH	26.000	2,003					2,003
\$4,126.21	50.0000 MH/CY		50.00	MH	[1650]	3,652			474		4,126

=====>	Item Totals:	286	- Sidewalk & Stoops 165 SF							
\$5,593.35	50.0000 MH/LS		50.00 MH	[1650]	3,652	1,073	194	474	200	5,593
5,593.350	1 LS				3,652.01	1,073.19	193.95	474.20	200.00	5,593.35

BID ITEM = 287

Description =	Pipe Supports	Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	0.000
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3000 CNC Concrete M Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 5213

										**Unreviewed
2C65	Concrete 6.5-B@107.75%	1.00	2.00 CY	166.000		358				358
3FORMS	Concrete Form @107.75%	1.00	2.00 CY	30.000			65			65
\$422.38				[]		358	65			422

3000.1 CNC Conc L&E Quan: 1.00 CY Hrs/Shft: 10.00 Cal: 510 WC: 6217

										Unreviewed
CF3	Concrete Foreman + 3 Guys		3.00	CH	Prod:	3.3333 US	Lab Pcs:	4.00	Eqp Pcs:	2.00
8TPU	Pickup Trucks	2.00	6.00	HR	23.710			142		142
FC	Foreman Concrete	1.00	3.00	MH	36.000	247				247
LC	Concrete Laborer	3.00	9.00	MH	26.000	601				601
\$990.45	12.0000 MH/CY		12.00	MH	[376.2]	848		142		990

=====>	Item Totals:	287	- Pipe Supports							
\$1,412.83	12.0000 MH/LS		12.00 MH	[376.2]	848	358	65	142		1,413
1,412.830	1 LS				848.19	357.73	64.65	142.26		1,412.83

BID ITEM = 288

Description =	Bollards	Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	0.000
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5000 MET Metals M Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: 3365

**Unreviewed

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 288											
Description =	Bollards				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2C65	Concrete 6.5-B@107.75%	1.00	2.00 CY		166.000		358				358
2MPIPEBOLLAR	Pipe Bollards@107.75%	1.00	2.00 EA		704.000		1,517				1,517
\$1,874.85					[]		1,875				1,875
5000.1 MET Bollars L&E											
						Quan:	1.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217
<u>PWWS</u>	Water/Irrig Service Crew			6.00 CH	Prod:	1.6667 US	Lab Pcs:		3.00	Eqp Pcs:	2.50
8EXMINI	Mini Series Trackhoe	1.00	6.00 HR		86.300				518		518
8LSL	Skid Loader	0.50	3.00 HR		66.750				200		200
8TPU	Pickup Trucks	1.00	6.00 HR		23.710				142		142
FP	Foreman Pipe	1.00	6.00 MH		38.000	539					539
PI	Pipelayer	1.00	6.00 MH		24.000	423					423
PL	Pipelayer Lead	1.00	6.00 MH		26.000	438					438
\$2,260.46	18.0000 MH/EA		18.00 MH		[580.8]	1,400			860		2,260
=====> Item Totals: 288 - Bollards											
\$4,135.31	18.0000 MH/LS		18.00 MH		[580.8]	1,400	1,875		860		4,135
4,135.310	1 LS					1,400.15	1,874.85		860.31		4,135.31
BID ITEM = 289											
Description =	Splash Blocks				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000 CNC Splash Blocks M											
						Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213
2SPASHBLOCK	Splash Blocks@107.75%	1.00	2.00 EA		100.000		216				216
3000.1 CNC Splash Block L&E											
						Quan:	1.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217
<u>CF</u>	Concrete Foreman + 1 Laborer			1.00 CH	Prod:	10.0000 US	Lab Pcs:		2.00	Eqp Pcs:	1.00
8TPU	Pickup Trucks	1.00	1.00 HR		23.710				24		24
FC	Foreman Concrete	1.00	1.00 MH		36.000	82					82
LC	Concrete Laborer	1.00	1.00 MH		26.000	67					67
\$172.93	2.0000 MH/EA		2.00 MH		[68.2]	149			24		173
=====> Item Totals: 289 - Splash Blocks											
\$388.43	2.0000 MH/LS		2.00 MH		[68.2]	149	216		24		388
388.430	1 LS					149.22	215.50		23.71		388.43
BID ITEM = 290											
Description =	Pipe Encasement				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000 CNC Concrete M											
						Quan:	1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 5213
20" encasement 3.16x3.16x16'x4=24 CY											
10" encasement 2.33x2.33x16'x4=13 CY											
14" encasement 2.66x2.66x16'x1=5 CY											
6" encasement 2x2x30x2=9 CY Total 51 CY											
2C65	Concrete 6.5-B@107.75%	1.00	55.00 CY		166.000		9,838				9,838
3FORMS	Concrete Form @107.75%	1.00	55.00 CY		30.000			1,778			1,778
\$11,615.46					[]		9,838	1,778			11,615
3000.1 CNC Conc L&E											
						Quan:	60.00 CY	Hrs/Shft:	10.00	Cal: 510	WC: 6217
<u>CF3</u>	Concrete Foreman + 3 Guys			60.00 CH	Prod:	10.0000 US	Lab Pcs:		3.00	Eqp Pcs:	1.00

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 290											
Description =	Pipe Encasement				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
8TPU	Pickup Trucks	1.00	60.00	HR	23.710				1,423		1,423
FC	Foreman Concrete	1.00	60.00	MH	36.000	4,948					4,948
LC	Concrete Laborer	2.00	120.00	MH	26.000	8,010					8,010
\$14,381.23	3.0000 MH/CY		180.00	MH	[96.8]	12,959			1,423		14,381
=====> Item Totals: 290 - Pipe Encasement											
\$25,996.69	180.0000 MH/LS		180.00	MH	[5808]	12,959	9,838	1,778	1,423		25,997
25,996.690	1 LS					12,958.63	9,837.58	1,777.88	1,422.60		25,996.69
BID ITEM = 291											
Description =	Pump				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
3000	CNC Concrete Pump				Quan: 1.00 LS	Hrs/Shft: 10.00	Cal: 510	WC: 5213			
4PUMP	CONCRETE PUMP	1.00	4.00	EA	800.000					3,200	3,200
											***Unreviewed
BID ITEM = 292											
Description =	Trench Drain				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2400	IPL Irrigation Pipe Laying				Quan: 1.00 LF	Hrs/Shft: 10.00	Cal: 510	WC: 6229			
2TR	Trench Drain@107.75%	1.00	1.00	LS	8,200.000		8,836				8,836
3000	CNC Concrete Materials				Quan: 1.00 LS	Hrs/Shft: 10.00	Cal: 510	WC: 5213			
2C6	Concrete 6-Bag@107.75%	1.00	2.00	CY	166.000		358				358
3000.1	CNC Trench Drain				Quan: 1.00 LS	Hrs/Shft: 10.00	Cal: 510	WC: 6217			
<u>CF</u>	Concrete Foreman + 1 Laborer		20.00	CH	Prod: 0.5000 US	Lab Pcs:		2.00	Eqp Pcs:	1.00	
8TPU	Pickup Trucks	1.00	20.00	HR	23.710			474		474	
FC	Foreman Concrete	1.00	20.00	MH	36.000	1,649				1,649	
LC	Concrete Laborer	1.00	20.00	MH	26.000	1,335				1,335	
\$3,458.67	40.0000 MH/LS		40.00	MH	[1364]	2,984		474		3,459	
=====> Item Totals: 292 - Trench Drain											
\$12,651.90	40.0000 MH/LS		40.00	MH	[1364]	2,984	9,193		474		12,652
12,651.900	1 LS					2,984.47	9,193.23		474.20		12,651.90
Total of Above Sub-Biditems											
=====> Item Totals: 280 - Concrete											
\$162,685.13	1,154.1800 MH/LS		1,154.18	MH	[36755.05]	82,501	48,036	4,655	13,489	14,005	162,685
162,685.130	1 LS					82,501.44	48,035.56	4,654.82	13,488.76	14,004.55	162,685.13
BID ITEM = 300											
Description =	Metals				Unit = LS	Takeoff Quan:		1.000	Engr Quan:		0.000

**Unreviewed

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 320											
Description =	Pipe Interior			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
<u>PF12</u>	Pipe Fitting with Machine		20.00	CH	Prod:	0.5000 US	Lab Pcs:		3.00	Eqp Pcs:	2.00
8TBT	Boom Truck	1.00	20.00	HR	60.900				1,218		1,218
8TPU	Pickup Trucks	1.00	20.00	HR	23.710				474		474
FP	Foreman Pipe	1.00	20.00	MH	38.000	1,797					1,797
PL	Pipelay Lead	2.00	40.00	MH	26.000	2,922					2,922
\$6,411.15	60.0000 MH/LS		60.00	MH	[1980]	4,719			1,692		6,411
7300 PLUM Plumbing											
				Quan:	1.00 LS	Hrs/Shft:	10.00	Cal:	510	WC:	5183
<u>PF1</u>	Pipe Fitting No Machine		15.00	CH	Prod:	0.6667 US	Lab Pcs:		2.00	Eqp Pcs:	1.00
8TPU	Pickup Trucks	1.00	15.00	HR	23.710				356		356
FP	Foreman Pipe	1.00	15.00	MH	38.000	1,348					1,348
PL	Pipelay Lead	1.00	15.00	MH	26.000	1,096					1,096
\$2,799.07	30.0000 MH/LS		30.00	MH	[1056]	2,443			356		2,799
====> Item Totals: 320 - Pipe Interior											
\$49,077.72	90.0000 MH/LS		90.00	MH	[3036]	7,162	37,713	2,155	2,048		49,078
49,077.720	1 LS					7,162.37	37,712.50	2,155.00	2,047.85		49,077.72
BID ITEM = 330											
Description =	Pipe Exterior			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2400 IPL Irrigation Materials											
				Quan:	1.00 LF	Hrs/Shft:	10.00	Cal:	510	WC:	6229
2DT	Detect Tape@107.75%	1.00	2.00	EA	100.000		216				216
2MPIPEEXTBLD	Steel Pipe Ext@107.75%	1.00	1.00	LS	100,000.000		107,750				107,750
2TW	Tracer Wire@107.75%	1.00	500.00	LF	0.250		135				135
3MISCP	Miscellaneous @107.75%	1.00	1.00	LS	2,000.000			2,155			2,155
\$110,255.19					[]	108,100	2,155				110,255
2400.1 IPL Steel Pipe Exterior & Set Cans											
				Quan:	1.00 LS	Hrs/Shft:	10.00	Cal:	510	WC:	3365
<u>PWPL</u>	Water Pipe Laying Crew		100.00	CH	Prod:	0.1000 US	Lab Pcs:		4.00	Eqp Pcs:	7.00
8EX200	200 Series Trackhoe	1.00	100.00	HR	141.020				14,102		14,102
8L70	70 Series Loader	0.50	50.00	HR	104.600				5,230		5,230
8MCW	Compaction Wheel	0.50	50.00	HR	48.280				2,414		2,414
8MGB	Gravel Bin	1.00	100.00	HR	36.110				3,611		3,611
8MTB	Trench Boxes	1.00	100.00	HR	6.750				675		675
8MTP	Trench Plates	1.00	100.00	HR	1.500				150		150
8TPU	Pickup Trucks	2.00	200.00	HR	23.710				4,742		4,742
FP	Foreman Pipe	1.00	100.00	MH	38.000	8,984					8,984
OP	Operator	1.00	100.00	MH	27.000	7,694					7,694
PI	Pipelay Lead	1.00	100.00	MH	24.000	7,046					7,046
PL	Pipelay Lead	1.00	100.00	MH	26.000	7,305					7,305
\$61,953.67	400.0000 MH/LS		400.00	MH	[12650]	31,030			30,924		61,954
2700.150 SG Sand & Gravel											
				Quan:	1.00 TON	Hrs/Shft:	10.00	Cal:	510	WC:	4000
2ABS	Bedding Sand@107.75%	1.00	100.00	TON	4.350		469				469
2750.150 H Hauling											
				Quan:	1.00 TON	Hrs/Shft:	10.00	Cal:	510	WC:	4000
<u>HT</u>	Hauling Truck & Pup Crew		5.29	CH	Prod:	1.8900 US	Lab Pcs:		1.00	Eqp Pcs:	1.00
8TTP	Dump Truck & Pup	1.00	5.29	HR	109.700				580		580
DR	Driver	1.00	5.29	MH	28.000	410					410
\$990.62	5.2900 MH/TON		5.29	MH	[162.93]	410			580		991

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 330										
Description =	Pipe Exterior		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
=====> Item Totals: 330 - Pipe Exterior										
\$173,668.19	405.2900 MH/LS	405.29 MH		[12812.93]	31,440	108,569	2,155	31,504		173,668
173,668.190	1 LS				31,439.98	108,568.90	2,155.00	31,504.31		173,668.19

BID ITEM = 340										
Description =	Valves		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		0.000
2400 IPL Valves M										
Quan:					1.00 LS	Hrs/Shft:	10.00	Cal: 510	WC: 6229	
210CV2	10" Check Valv@107.75%	1.00	2.00 EA		7,370.400		15,883			**Unreviewed
210GVHW	10" Gate Valve@107.75%	1.00	2.00 EA		2,572.310		5,543			15,883
214BFV2	14" Flg Butter@107.75%	1.00	1.00 EA		6,915.380		7,451			5,543
216BFV2	16" Flg Butter@107.75%	1.00	2.00 EA		10,805.232		23,285			7,451
216BP	16" MJ Bolt Pa@107.75%	1.00	4.00 EA		84.000		362			23,285
26BP	6" MJ Bolt Pac@107.75%	1.00	6.00 EA		29.000		187			362
26GVHW	6" Gate Valve @107.75%	1.00	1.00 EA		1,035.850		1,116			187
26GVNUT	6" Gate Valve @107.75%	1.00	1.00 EA		1,035.854		1,116			1,116
26SURGESING	6" Surge Antic@107.75%	1.00	1.00 EA		11,954.000		12,880			1,116
3MISCVALVE	Misc Valves@107.75%	1.00	1.00 EA		1,000.000			1,078		12,880
\$68,902.86					[]		67,825	1,078		1,078
										68,903

7100.1 IMP Valve 14" - 16" L&E										
Quan:					3.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
<u>PF12</u>	Pipe Fitting with Machine		18.00 CH		Prod:	1.6667 US	Lab Pcs:	3.00	Eqp Pcs:	**Unreviewed
8TBT	Boom Truck	1.00	18.00 HR		60.900			1,096		2.00
8TPU	Pickup Trucks	1.00	18.00 HR		23.710			427		1,096
FP	Foreman Pipe	1.00	18.00 MH		38.000	1,617				427
PL	Pipelay Lead	2.00	36.00 MH		26.000	2,630				1,617
\$5,770.05	18.0000 MH/EA		54.00 MH		[594]	4,247		1,523		2,630
										5,770

7100.2 IMP Valve 10" L&E										
Quan:					4.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
<u>PF12</u>	Pipe Fitting with Machine		12.00 CH		Prod:	3.3333 US	Lab Pcs:	3.00	Eqp Pcs:	**Unreviewed
8TBT	Boom Truck	1.00	12.00 HR		60.900			731		2.00
8TPU	Pickup Trucks	1.00	12.00 HR		23.710			285		731
FP	Foreman Pipe	1.00	12.00 MH		38.000	1,078				285
PL	Pipelay Lead	2.00	24.00 MH		26.000	1,753				1,078
\$3,846.69	9.0000 MH/EA		36.00 MH		[297]	2,831		1,015		1,753
										3,847

7100.3 IMP Valve 6" L&E										
Quan:					3.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: 6217	
<u>PF12</u>	Pipe Fitting with Machine		18.00 CH		Prod:	1.6667 US	Lab Pcs:	3.00	Eqp Pcs:	**Unreviewed
8TBT	Boom Truck	1.00	18.00 HR		60.900			1,096		2.00
8TPU	Pickup Trucks	1.00	18.00 HR		23.710			427		1,096
FP	Foreman Pipe	1.00	18.00 MH		38.000	1,617				427
PL	Pipelay Lead	2.00	36.00 MH		26.000	2,630				1,617
\$5,770.05	18.0000 MH/EA		54.00 MH		[594]	4,247		1,523		2,630
										5,770

=====> Item Totals: 340 - Valves										
\$84,289.65	144.0000 MH/LS	144.00 MH		[4752]	11,326	67,825	1,078	4,061		84,290
84,289.650	1 LS				11,325.51	67,825.36	1,077.50	4,061.28		84,289.65

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 350											
Description =	Air Vacs Assemblies		Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		0.000
7100	IMP Air Vac's Only M		Quan:	1.00 EA	Hrs/Shft:	10.00	Cal:	510	WC:	5183	
22AIRVACS	2" Air Vacs@107.75%	1.00	1.00 EA		1,588.450		1,712				**Unreviewed 1,712
7100.1	2" Airvac & Tree Combined		Quan:	1.00 EA	Hrs/Shft:	10.00	Cal:	510	WC:	6217	
<u>PF12</u>	Pipe Fitting with Machine			10.00 CH	Prod:	1.0000 US	Lab Pcs:		3.00	Eqp Pcs:	1.00
8TPU	Pickup Trucks	1.00	10.00 HR		23.710				237		237
FP	Foreman Pipe	1.00	10.00 MH		38.000	898					898
PL	Pipelayer Lead	2.00	20.00 MH		26.000	1,461					1,461
\$2,596.59	30.0000 MH/EA		30.00 MH		[990]	2,359			237		2,597
=====> Item Totals: 350 - Air Vacs Assemblies											
\$4,308.14	30.0000 MH/LS		30.00 MH		[990]	2,359	1,712		237		4,308
4,308.140	1 LS					2,359.49	1,711.55		237.10		4,308.14

BID ITEM = 360											
Description =	14" Flow Meter		Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		0.000
2400	IPL 14" Flow Meter M		Quan:	1.00 EA	Hrs/Shft:	10.00	Cal:	510	WC:	6229	
214FM	14" Flow Meter@107.75%	1.00	1.00 EA		8,837.000		9,522				**Unreviewed 9,522
214FP	14" Flange Pac@107.75%	1.00	2.00 EA		175.000		377				377
\$9,899.00					[]		9,899				9,899
7100.1	IMP 14" Flow Meter L&E		Quan:	1.00 EA	Hrs/Shft:	10.00	Cal:	510	WC:	6217	
<u>PF12</u>	Pipe Fitting with Machine			5.00 CH	Prod:	2.0000 US	Lab Pcs:		3.00	Eqp Pcs:	2.00
8TBT	Boom Truck	1.00	5.00 HR		60.900				305		305
8TPU	Pickup Trucks	1.00	5.00 HR		23.710				119		119
FP	Foreman Pipe	1.00	5.00 MH		38.000	449					449
PL	Pipelayer Lead	2.00	10.00 MH		26.000	731					731
\$1,602.79	15.0000 MH/EA		15.00 MH		[495]	1,180			423		1,603
=====> Item Totals: 360 - 14" Flow Meter											
\$11,501.79	15.0000 MH/LS		15.00 MH		[495]	1,180	9,899		423		11,502
11,501.790	1 LS					1,179.74	9,899.00		423.05		11,501.79

BID ITEM = 370											
Description =	Pumps		Unit =	LS	Takeoff Quan:			1.000	Engr Quan:		0.000
7500	PUMP Pumps/Motors		Quan:	1.00 LS	Hrs/Shft:	10.00	Cal:	510	WC:	3724	
2PUMP200HP	Pump 200 HP@107.75%	1.00	2.00 EA		50,650.000		109,151				**Unreviewed 109,151
2PUMPCANS10'	Pump Cans Dept@107.75%	1.00	7.00 EA		12,428.570		93,742				93,742
4PUMPINSTALL	Pump Installation	1.00	2.00 EA		1,200.000					2,400	2,400
\$205,293.24					[]		202,893			2,400	205,293
7500.1	PUMP Set Pump Cans		Quan:	1.00 EA	Hrs/Shft:	10.00	Cal:	510	WC:	6217	
<u>EX1</u>	Excavation Crew + Loader			35.00 CH	Prod:	0.2857 US	Lab Pcs:		3.00	Eqp Pcs:	3.00
8EX200	200 Series Trackhoe	1.00	35.00 HR		141.020				4,936		4,936

Total of Above Sub-Biditems

66.19]	223,918	587,859	22,665	121,285	569,787	1,525,514
	223,917.88	587,859.44	22,664.62	121,285.36	569,786.63	1,525,513.93

2000	SWC Fuel Surcharge	Quan: 23,404.00 GAL Hrs/Shft: 10.00	Cal: 510 WC: 6217
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1000.100	GR General Requirements	Quan:	1.00	LS	Hrs/Shft:	10.00	Cal:	510	WC:	8227
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There are no cost resources for this activity.

1000.100	GR General Requirements	Quan:	1.00 LS	Hrs/Shft:	10.00	Cal:	510	WC:	8227
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There are no cost resources for this activity.

Direct Cost Report

Activity Resource	Desc	Quantity Pcs	Unit MH/Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM	= 2700	CLIENT# = 13								
Description =	Contingency 2.5%		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
\$0.00				[]						
0.000	1 LS									
\$2,424,990.67	*** Report Totals ***	6,375.46	MH		481,699	764,750	55,778	476,868	645,895	2,424,991

>>> indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.
This report shows TAKEOFF Quantities with the resources.

"Unreviewed" Activities are marked.

Bid Date: 12/10/21 Owner: Engineering Firm:
Estimator-In-Charge:

JOB NOTES

Estimate created on: 08/30/2021 by User#: 6 - David
Source estimate used: R:\EST\ESTMAST

*****Estimate created on: 12/03/2021 by User#: 10 - Doug G
Source estimate used: R:\EST\21152

*****Estimate created on: 12/09/2021 by User#: 2 - Chad
Source estimate used: R:\EST\21187

*****Estimate created on: 04/27/2022 by User#: 2 - Chad
Source estimate used: R:\EST\21187CITY

* on units of MH indicate average labor unit cost was used rather than base rate.

[] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%
-----Calendar Codes-----

509 5 -9 HOUR DAY
510 5 -10 HOUR DAY (Default Calendar)
511 5 - 11 HOUR DAY
610 6 - 10 HOUR
WE WEEKEND