

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		1 Liberta Const. dba Cioffi		2 Don Wartko Const.		3 Spano Bros. Inc	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$2,500.00	\$2,500.00	\$1,650.00	\$1,650.00	\$1,500.00	\$1,500.00	\$3,500.00	\$3,500.00
2	252	Trenches for Water Services in Earth	70	L.F.	\$10.00	\$700.00	\$10.00	\$700.00	\$10.00	\$700.00	\$10.00	\$700.00
3	253	Boring for Water Services	90	L.F.	\$15.00	\$1,350.00	\$1.00	\$90.00	\$15.00	\$1,350.00	\$20.00	\$1,800.00
4	254	6 inch Ductile Iron Pipe	30	L.F.	\$50.00	\$1,500.00	\$26.00	\$780.00	\$25.00	\$750.00	\$60.00	\$1,800.00
5	254	12 inch Ductile Iron Pipe	1005	L.F.	\$95.00	\$95,475.00	\$94.00	\$94,470.00	\$86.00	\$86,430.00	\$86.00	\$86,430.00
6	258	6 inch Gate Valve	2	L.F.	\$500.00	\$1,000.00	\$470.00	\$940.00	\$625.00	\$1,250.00	\$600.00	\$1,200.00
7	258	12 inch Gate Valve	1	L.F.	\$1,400.00	\$1,400.00	\$1,410.00	\$1,410.00	\$1,550.00	\$1,550.00	\$1,500.00	\$1,500.00
8	259	Special Casting, 6" 90d Bend	2	EACH	\$200.00	\$400.00	\$150.00	\$300.00	\$200.00	\$400.00	\$150.00	\$300.00
9	259	Special Casting, 12" 11.25d Bend	1	EACH	\$200.00	\$200.00	\$300.00	\$300.00	\$400.00	\$400.00	\$350.00	\$350.00
10	259	Special Casting, 12" 22.50d Bend	1	EACH	\$200.00	\$200.00	\$300.00	\$300.00	\$400.00	\$400.00	\$300.00	\$300.00
11	259	Special Casting, 12" 45d Bend	7	EACH	\$300.00	\$2,100.00	\$300.00	\$2,100.00	\$400.00	\$2,800.00	\$300.00	\$2,100.00
12	259	Special Casting, 16" Solid Sleeve (Long)	1	EACH	\$400.00	\$400.00	\$580.00	\$580.00	\$1,500.00	\$1,500.00	\$650.00	\$650.00
13	259	Special Casting, 12" x 6" Tee	2	EACH	\$450.00	\$900.00	\$422.00	\$844.00	\$475.00	\$950.00	\$500.00	\$1,000.00
14	259	Special Casting, 16" x 12" Tee	1	EACH	\$600.00	\$600.00	\$990.00	\$990.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
15	259	Special Casting, 12" x 8" Reducer	1	EACH	\$300.00	\$300.00	\$216.00	\$216.00	\$325.00	\$325.00	\$300.00	\$300.00
16	260	Fire Hydrants	2	EACH	\$2,000.00	\$4,000.00	\$2,000.00	\$4,000.00	\$2,200.00	\$4,400.00	\$2,000.00	\$4,000.00
17	264	24" Steel Casing Pipe (0.375" Min. Wall)	25	L.F.	\$250.00	\$6,250.00	\$10.00	\$250.00	\$375.00	\$9,375.00	\$120.00	\$3,000.00
18	266	Tapping Water Mains and Installing Services	160	L.F.	\$15.00	\$2,400.00	\$10.00	\$1,600.00	\$35.00	\$5,600.00	\$20.00	\$3,200.00
19	614	Maintaining Traffic	1	L.S.	\$1,500.00	\$1,500.00	\$100.00	\$100.00	\$750.00	\$750.00	\$4,000.00	\$4,000.00
20	619	Field Office	1	L.S.	\$2,500.00	\$2,500.00	\$100.00	\$100.00	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00
21	623	Construction Layout Stakes	1	L.S.	\$1,500.00	\$1,500.00	\$100.00	\$100.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
22	624	Mobilization	1	L.S.	\$1,500.00	\$1,500.00	\$100.00	\$100.00	\$100.00	\$100.00	\$4,000.00	\$4,000.00
23	SPEC	County Inspection	100	HR.	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00
TOTAL CONSTRUCTION COSTS						\$132,275.00	\$115,520.00	\$128,630.00	\$128,730.00			

+/- ENGINEER'S ESTIMATE -12.7% -2.8% -2.7%

* Ref Line 16 - Incorrect calculation of total item cost.

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4 Underground Services		5 Cardinal Asphalt Co. Inc.		6 Wingfoot Rental	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$2,500.00	\$2,500.00	\$3,200.00	\$3,200.00	\$1,517.00	\$1,517.00	\$5,500.00	\$5,500.00
2	252	Trenches for Water Services in Earth	70	L.F.	\$10.00	\$700.00	\$8.00	\$560.00	\$18.34	\$1,283.80	\$8.00	\$560.00
3	253	Boring for Water Services	90	L.F.	\$15.00	\$1,350.00	\$10.00	\$900.00	\$14.11	\$1,269.90	\$10.00	\$900.00
4	254	6 inch Ductile Iron Pipe	30	L.F.	\$50.00	\$1,500.00	\$21.00	\$630.00	\$74.13	\$2,223.90	\$65.00	\$1,950.00
5	254	12 inch Ductile Iron Pipe	1005	L.F.	\$95.00	\$95,475.00	\$68.00	\$68,340.00	\$98.27	\$98,761.35	\$110.00	\$110,550.00
6	258	6 inch Gate Valve	2	L.F.	\$500.00	\$1,000.00	\$650.00	\$1,300.00	\$571.25	\$1,142.50	\$600.00	\$1,200.00
7	258	12 inch Gate Valve	1	L.F.	\$1,400.00	\$1,400.00	\$1,650.00	\$1,650.00	\$1,403.40	\$1,403.40	\$1,600.00	\$1,600.00
8	259	Special Casting, 6" 90d Bend	2	EACH	\$200.00	\$400.00	\$130.00	\$260.00	\$362.00	\$724.00	\$200.00	\$400.00
9	259	Special Casting, 12" 11.25d Bend	1	EACH	\$200.00	\$200.00	\$800.00	\$800.00	\$525.40	\$525.40	\$350.00	\$350.00
10	259	Special Casting, 12" 22.50d Bend	1	EACH	\$200.00	\$200.00	\$800.00	\$800.00	\$530.40	\$530.40	\$350.00	\$350.00
11	259	Special Casting, 12" 45d Bend	7	EACH	\$300.00	\$2,100.00	\$800.00	\$5,600.00	\$543.68	\$3,805.76	\$350.00	\$2,450.00
12	259	Special Casting, 16" Solid Sleeve (Long)	1	EACH	\$400.00	\$400.00	\$950.00	\$950.00	\$553.40	\$553.40	\$600.00	\$600.00
13	259	Special Casting, 12" x 6" Tee	2	EACH	\$450.00	\$900.00	\$650.00	\$1,300.00	\$823.10	\$1,646.20	\$450.00	\$900.00
14	259	Special Casting, 16" x 12" Tee	1	EACH	\$600.00	\$600.00	\$2,200.00	\$2,200.00	\$853.10	\$853.10	\$1,000.00	\$1,000.00
15	259	Special Casting, 12" x 8" Reducer	1	EACH	\$300.00	\$300.00	\$1,600.00	\$1,600.00	\$196.35	\$196.35	\$250.00	\$250.00
16	260	Fire Hydrants	2	EACH	\$2,000.00	\$4,000.00	\$1,800.00	\$3,600.00	\$1,561.65	\$3,123.30	\$2,000.00	\$4,000.00
17	264	24" Steel Casing Pipe (0.375" Min. Wall)	25	L.F.	\$250.00	\$6,250.00	\$660.00	\$16,500.00	\$150.00	\$3,750.00	\$35.00	\$875.00
18	266	Tapping Water Mains and Installing Services	160	L.F.	\$15.00	\$2,400.00	\$25.00	\$4,000.00	\$27.74	\$4,438.40	\$0.01	\$1.60
19	614	Maintaining Traffic	1	L.S.	\$1,500.00	\$1,500.00	\$5,500.00	\$5,500.00	\$4,200.00	\$4,200.00	\$2,000.00	\$2,000.00
20	619	Field Office	1	L.S.	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$500.00	\$500.00
21	623	Construction Layout Stakes	1	L.S.	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00
22	624	Mobilization	1	L.S.	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$500.00	\$500.00
23	SPEC	County Inspection	100	HR.	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00
TOTAL CONSTRUCTION COSTS						\$132,275.00	\$128,790.00	\$138,298.16	\$138,298.16	\$143,036.60	\$143,036.60	

+/- ENGINEER'S ESTIMATE -2.6% +4.6% +8.1%

* Ref Line 16 - Incorrect calculation of total item cost.

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		7 Lockhart Development Co		*8 Vito Girona Construction		9 Kenmore Construction	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
2	252	Trenches for Water Services in Earth	70	L.F.	\$10.00	\$700.00	\$8.00	\$560.00	\$10.00	\$700.00	\$25.00	\$1,750.00
3	253	Boring for Water Services	90	L.F.	\$15.00	\$1,350.00	\$10.00	\$900.00	\$10.00	\$900.00	\$50.00	\$4,500.00
4	254	6 inch Ductile Iron Pipe	30	L.F.	\$50.00	\$1,500.00	\$20.00	\$600.00	\$120.00	\$3,600.00	\$45.00	\$1,350.00
5	254	12 inch Ductile Iron Pipe	1005	L.F.	\$95.00	\$95,475.00	\$128.00	\$128,640.00	\$126.00	\$126,630.00	\$102.00	\$102,510.00
6	258	6 inch Gate Valve	2	L.F.	\$500.00	\$1,000.00	\$500.00	\$1,000.00	\$750.00	\$1,500.00	\$500.00	\$1,000.00
7	258	12 inch Gate Valve	1	L.F.	\$1,400.00	\$1,400.00	\$1,500.00	\$1,500.00	\$1,700.00	\$1,700.00	\$1,500.00	\$1,500.00
8	259	Special Casting, 6" 90d Bend	2	EACH	\$200.00	\$400.00	\$125.00	\$250.00	\$100.00	\$200.00	\$175.00	\$350.00
9	259	Special Casting, 12" 11.25d Bend	1	EACH	\$200.00	\$200.00	\$300.00	\$300.00	\$275.00	\$275.00	\$375.00	\$375.00
10	259	Special Casting, 12" 22.50d Bend	1	EACH	\$200.00	\$200.00	\$300.00	\$300.00	\$275.00	\$275.00	\$375.00	\$375.00
11	259	Special Casting, 12" 45d Bend	7	EACH	\$300.00	\$2,100.00	\$300.00	\$2,100.00	\$275.00	\$1,925.00	\$375.00	\$2,625.00
12	259	Special Casting, 16" Solid Sleeve (Long)	1	EACH	\$400.00	\$400.00	\$400.00	\$400.00	\$300.00	\$300.00	\$600.00	\$600.00
13	259	Special Casting, 12" x 6" Tee	2	EACH	\$450.00	\$900.00	\$400.00	\$800.00	\$350.00	\$700.00	\$450.00	\$900.00
14	259	Special Casting, 16" x 12" Tee	1	EACH	\$600.00	\$600.00	\$1,100.00	\$1,100.00	\$900.00	\$900.00	\$2,500.00	\$2,500.00
15	259	Special Casting, 12" x 8" Reducer	1	EACH	\$300.00	\$300.00	\$200.00	\$200.00	\$250.00	\$250.00	\$300.00	\$300.00
16	260	Fire Hydrants	2	EACH	\$2,000.00	\$4,000.00	\$2,000.00	\$4,000.00	\$2,500.00	\$5,000.00	\$1,800.00	\$3,600.00
17	264	24" Steel Casing Pipe (0.375" Min. Wall)	25	L.F.	\$250.00	\$6,250.00	\$75.00	\$1,875.00	\$365.00	\$9,125.00	\$900.00	\$22,500.00
18	266	Tapping Water Mains and Installing Services	160	L.F.	\$15.00	\$2,400.00	\$10.00	\$1,600.00	\$10.00	\$1,600.00	\$22.00	\$3,520.00
19	614	Maintaining Traffic	1	L.S.	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00
20	619	Field Office	1	L.S.	\$2,500.00	\$2,500.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00
21	623	Construction Layout Stakes	1	L.S.	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00	\$2,500.00	\$2,500.00
22	624	Mobilization	1	L.S.	\$1,500.00	\$1,500.00	\$4,000.00	\$4,000.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00
23	SPEC	County Inspection	100	HR.	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00	\$36.00	\$3,600.00
TOTAL CONSTRUCTION COSTS						\$132,275.00	\$164,225.00	\$165,180.00	\$170,355.00			

+/- ENGINEER'S ESTIMATE +24.2% +24.9% +28.8%

* Ref Line 16 - Incorrect calculation of total item cost.