Table 3.1

Engineers Opinion of Probable Cost - Option 1-Alternative 1 (Pond Top: 4957)
John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip to Broadway Blvd	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	4.56%	LS	$ 2,745,498	$ 125,195
				Phase 1 Construction Subtotal With Mobilization and Demobilization:	$ 2,870,693
	35% Contingency				$ 1,004,742
	NMGRT - City of Albuquerque @ 7.625%				$ 218,890
				Phase 1 Total:	**$ 4,094,325**

Table 3.1

Engineers Opinion of Probable Cost - Option 1-Alternative 1 (Pond Top: 4957)

John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 2				
4.01	Constuction Staking, complete	1.43%	LS	$ 2,580,885.00	$ 36,907
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 2,580,885.00	$ 88,524
30.01	Flood protection, cip.	0.37%	LS	$ 2,580,885.00	$ 9,549
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 2,580,885.00	$ 16,260
202.011	Excavate and dispose of unsuitable material, compl.	4872	CY	$ 16.30	$ 79,418
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	14033	CY	$ 18.75	$ 263,127
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	3238	SY	$ 4.08	$ 13,211
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	3079	SY	$ 29.25	$ 90,056
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3079	SY	$ 14.27	$ 43,935
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	160	LF	$ 9.59	$ 1,534
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2ft thick at inlet of pond	80	CY	$ 326.09	$ 26,087
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	470	SY	$ 120.33	$ 56,582
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	2073	EA	$ 38.32	$ 79,437
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	653	LF	$ 78.26	$ 51,104
910.013	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	700	LF	$ 101.39	$ 70,973
910.017	36" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	230	LF	$ 143.77	$ 33,067
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	550	LF	$ 438.31	$ 241,071
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	1100	LF	$ 27.47	$ 30,217
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	5	EA	$ 8,315.18	$ 41,576
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	5	EA	$ 1,447.01	$ 7,235
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,954
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 2,067,111
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	4.56%	LS	$2,067,111	$ 94,260
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 2,161,371
	35% Contingency				$ 756,480
	NMGRT - City of Albuquerque @ 7.625%				$ 164,805
				Phase 2 Subtotal	$ 3,082,655
	Phases 1 & 2 Total:				**$ 7,177,000**

Assumptions:

2023 COA City Engineer's Estimated Unit Prices

Table 3.2

Engineers Opinion of Probable Cost - Option 1-Alternative 2 (Pond Top: 4957)

John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
	Phase 1 Construction Subtotal With Mobilization and Demobilization:				$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,111,555**

Table 3.2 Engineers Opinion of Probable Cost - Option 1-Alternative 2 (Pond Top: 4957) John Street Pond Feasibility Design Analysis Report					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Phase 2					
4.01	Constuction Staking, complete	1.43%	LS	$2,669,857	$ 38,179
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,669,857	$ 91,576
30.01	Flood protection, cip.	0.37%	LS	$2,669,857	$ 9,878
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,669,857	$ 16,820
202.011	Excavate and dispose of unsuitable material, compl.	4872	CY	$ 16.30	$ 79,418
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	14033	CY	$ 18.75	$ 263,127
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	4527	SY	$ 4.08	$ 18,470
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	4110	SY	$ 29.25	$ 120,217
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	4110	SY	$ 14.27	$ 58,650
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	120	LF	$ 9.59	$ 1,151
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2ft thick at inlet of pond	80	CY	$ 326.09	$ 26,087
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	546	SY	$ 120.33	$ 65,724
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	1753	EA	$ 38.32	$ 67,175
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	703	LF	$ 78.26	$ 55,017
910.013	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	700	LF	$ 101.39	$ 70,973
910.017	36" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	230	LF	$ 143.77	$ 33,067
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	600	LF	$ 438.31	$ 262,986
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	780	LF	$ 27.47	$ 21,427
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	5	EA	$ 8,315.18	$ 41,576
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	5	EA	$ 1,447.01	$ 7,235
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,954
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	4	EA	$ 30,000.00	$ 120,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 2,105,993
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$2,105,993	$ 105,300
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 2,211,292
	35% Contingency				$ 773,952
	NMGRT - City of Albuquerque @ 7.625%				$ 168,611
				Phase 2 Subtotal	$ 3,153,856
	Phases 1 & 2 Total:				**$ 7,266,000**

Assumptions:
2023 COA City Engineer's Estimated Unit Prices

Table 3.3 Engineers Opinion of Probable Cost - Option 2-Alternative 1 (Pond Top: 4957) John Street Pond Feasibility Design Analysis Report					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Phase 1					
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
				Phase 1 Construction Subtotal With Mobilization and Demobilization:	$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,111,555**

Table 3.3 **Engineers Opinion of Probable Cost - Option 2-Alternative 1 (Pond Top: 4957)** **John Street Pond Feasibility Design Analysis Report**					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 2				
4.01	Constuction Staking, complete	1.43%	LS	$2,122,639	$ 30,354
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,122,639	$ 72,807
30.01	Flood protection, cip.	0.37%	LS	$2,122,639	$ 7,854
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,122,639	$ 13,373
202.011	Excavate and dispose of unsuitable material, compl.	922	CY	$ 16.30	$ 15,035
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	9075	CY	$ 18.75	$ 170,153
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	3238	SY	$ 4.08	$ 13,211
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	2590	SY	$ 29.25	$ 75,769
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	2590	SY	$ 14.27	$ 36,965
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	120	LF	$ 9.59	$ 1,151
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2.5ft thick at inlet of pond	100	CY	$ 326.09	$ 32,609
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	470	SY	$ 120.33	$ 56,582
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	651	EA	$ 38.32	$ 24,946
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	653	LF	$ 78.26	$ 51,104
910.009	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	304	LF	$ 67.33	$ 20,468
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	550	LF	$ 438.31	$ 241,071
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	304	LF	$ 27.47	$ 8,351
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	3	EA	$ 8,315.18	$ 24,946
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	2	EA	$ 1,447.01	$ 2,894
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	5243	SY	$ 17.25	$ 90,435
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 1,661,362
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$1,661,362	$ 83,068
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 1,744,430
	35% Contingency				$ 610,550
	NMGRT - City of Albuquerque @ 7.625%				$ 133,013
				Phase 2 Subtotal	$ 2,487,993
	Phases 1 & 2 Total:				**$ 6,600,000**

Assumptions:

2023 COA City Engineer's Estimated Unit Prices

Table 3.4

Engineers Opinion of Probable Cost - Option 2-Alternative 2 (Pond Top: 4957)
John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
				Phase 1 Construction Subtotal With Mobilization and Demobilization:	$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,112,000**

Table 3.4

Engineers Opinion of Probable Cost - Option 2-Alternative 2 (Pond Top: 4957)
John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 2				
4.01	Constuction Staking, complete	1.43%	LS	$2,279,451	$ 32,596
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,279,451	$ 78,185
30.01	Flood protection, cip.	0.37%	LS	$2,279,451	$ 8,434
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,279,451	$ 14,361
202.011	Excavate and dispose of unsuitable material, compl.	922	CY	$ 16.30	$ 15,035
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	9075	CY	$ 18.75	$ 170,153
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	4527	SY	$ 4.08	$ 18,470
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	3622	SY	$ 29.25	$ 105,930
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	120	LF	$ 29.27	$ 3,512
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3622	SY	$ 14.27	$ 51,679
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	160	LF	$ 9.59	$ 1,534
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2.5ft thick at inlet of pond	100	CY	$ 326.09	$ 32,609
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	546	SY	$ 120.33	$ 65,724
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	651	EA	$ 38.32	$ 24,946
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	703	LF	$ 78.26	$ 55,017
910.009	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	304	LF	$ 67.33	$ 20,468
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	600	LF	$ 438.31	$ 262,986
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	304	LF	$ 27.47	$ 8,351
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	3	EA	$ 8,315.18	$ 24,946
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	2	EA	$ 1,447.01	$ 2,894
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,956
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 1,780,389
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$1,780,389	$ 89,019
				Phase 2 Construction Subtotal With Mobilization and Demobilization:	$ 1,869,408
	35% Contingency				$ 654,293
	NMGRT - City of Albuquerque @ 7.625%				$ 142,542
				Phase 2 Subtotal	$ 2,666,244
	Phases 1 & 2 Total:				**$ 6,779,000**

Assumptions:
2023 COA City Engineer's Estimated Unit Prices

Table 3.5
Pump Station Configuration Cost Estimates
John Street Pond Feasibility Design Analysis Report

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Configuration 1 – Duplex System				
510.110	Structural, reinforced PC concrete, 4000 psi, incl. formwork, cip. Wet well concrete	45	CY	$ 1,200.00	$ 54,000
520.010	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1500	LB	$ 4.00	$ 6,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3531, 90hp)	2	EA	$ 230,000.00	$ 460,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - FLYGT MAS 801 monitoring system	1	EA	$ 15,000.00	$ 15,000
xxx.xxx	Pump Station - Furnish and install bridge crane	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 90,000.00	$ 90,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	1500	SQ	$ 300.00	$ 450,000
				Configuration 1 – Duplex System Subtotal:	$ 1,195,000
	Structural Design				$ 35,000
				Configuration 1 – Duplex System Total:	**$ 1,230,000**
	Configuration 2 – Triplex System				
510.110	Structural, reinforced PC concrete, 4000 psi, incl. formwork, cip. Wet well concrete	34	CY	$ 1,200.00	$ 40,800
520.010	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1500	LB	$ 4.00	$ 6,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3202, 35hp)	3	EA	$ 72,500.00	$ 217,500
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - Furnish and install bridge crane	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	1500	SQ	$ 300.00	$ 450,000
				Configuration 1 – Duplex System Subtotal:	$ 859,300
	Structural Design				$ 35,000
				Configuration 2 – Triplex System Total:	**$ 894,300**
	Configuration 3 – Dual Duplex Stations				
xxx.xxx	Pump Station - Prefabricated Wetwell	2	EA	$ 90,000.00	$ 180,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3153, 20hp)	4	EA	$ 41,000.00	$ 164,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 15,000.00	$ 15,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	400	SQ	$ 300.00	$ 120,000
				Configuration 3 – Dual Duplex Stations	**$ 574,000**

* For all configurations NMGRT and 35% Contingency included in overall Engineers Opinion of Probable Cost (EOPC) for each option and alternative.
**Final costs for control, SCADA systems, enclosures, etc. will be subject to ABCWUA requirements.