

Aquatic Master Plan

Balcones

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	400	400	LF	Remove P.C. Concrete Curb	\$ 20.00	\$8,000.00	to expand parking lot and rebuilt driveway. Quantity take off north and west curb
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	1003	1100	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$22,000.00	Removed existing driveway, and existing sidewalk in front of building
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	2030.617284	2,030	CY	Excavation, Unclassified	\$ 52.00	\$105,560.00	33120 sf + 40' x 200' new driveway and assuming 2in HMAc with 8" base and 6" subgrade
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	4568.888889	4,570	SY	Sub-Grade Preparation	\$ 9.00	\$41,130.00	33120 sf + 40' x 200' new driveway with 6" subgrade
203S-A8	4568.888889	4,570	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$69,921.00	33120 sf + 40' x 200' new driveway with 6" subgrade
210S-A8	1015.308642	1,020	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$42,840.00	33120 sf + 40' x 200' new driveway with 8" base
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2	4568.888889	4,570	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$77,690.00	33120 sf + 40' x 200' new driveway with 2 in HMAc
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 173,700.00	\$173,700.00	\$3.00/sf x 59,700sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 249,000.00	\$249,000.00	\$4.30/sf x 57,900sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A	1200	1,200	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$21,600.00	assume it is 3 times the removed
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	3730	3,800	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$45,600.00	From Amherst to building entrance on both side of ICR
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	4	4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	two at ROW, two onsite
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	

432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$	2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$	2,300.00	\$0.00	
432S-SAC-3	3	3	EA	Streetscape Bicycle Rack	\$	800.00	\$2,400.00	3 new ones. Existing ones may not be
432S-SAC-4			EA	Streetscape Trash Receptacle	\$	2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$	6,600.00	\$0.00	
432S-PRC-1			LF	Pedestrian ADA Railing	\$	102.00	\$0.00	
SP432S-K			EA	Art Kiosks	\$	25,000.00	\$0.00	
433S-C	1000	100	SF	Type II P.C. Concrete Driveway	\$	11.00	\$1,100.00	Reconstructed driveway 40' wide and 25' deep
435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S	3	3	EA	Parking Lot Bumper Curbs	\$	120.00	\$360.00	for accessible spaces
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW	1	1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	for 8" wastewater line
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48	1	1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	SD connection
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	at connection on Amherst Drive
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection on Amherst Drive
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	at SD outfall on Walnut Creek
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	inlets around pool improvements
508S-I10S		6	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$32,400.00	for parking lot expansion
509S-1		1,600	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$3,200.00	
510-AW2C			LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$0.00	irrigation
510-AW-4-350		400	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$56,000.00	Domestic Line
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	391	400	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$77,200.00	Fire line
510-ASW18		400	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$54,400.00	SD collection around pool improvements
510-ASW24		400	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$62,800.00	for parking lot expansion. The site drains directly to walnut creek?
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	

510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	
510-AWW8		400	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	125.00	\$50,000.00	Wastewater service line
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$	4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connection New 8" Water Service to 4" Private Service	\$	6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2	1	1	EA	New Water Meter, 2 Inch Meter and Water Capital Recover Fee	\$	55,000.00	\$55,000.00	Irrigation meter/tap fee
SP510-BW-M4	1	1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$	321,000.00	\$321,000.00	Domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$	2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$	4,600.00	\$4,600.00	connect to 8" main on Amherst
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$	3,100.00	\$0.00	
510-JW8X8	1	1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$	3,300.00	\$3,300.00	the other main is 36" CSC
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$	4,600.00	\$0.00	
510-KW	2	2	TON	Ductile Iron Fittings	\$	11,500.00	\$23,000.00	5 lb/ft
511S-A2		2	EA	Valves, Gate Type, 2" Diameter	\$	1,000.00	\$2,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$	1,200.00	\$0.00	
511S-A4	1.6	2	EA	Valves, Gate Type, 4" Diameter	\$	1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$	1,900.00	\$3,800.00	for fire hydrants
511S-A8	1.6	2	EA	Valves, Gate Type, 8" Diameter	\$	2,300.00	\$4,600.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$	5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer for Irrigation Service)	\$	4,000.00	\$4,000.00	
511S-C8		1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer for Fire Service)	\$	16,000.00	\$16,000.00	
551			LF	Pipe Underdrains (for Tree Wells)	\$	50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$	200.00	\$800.00	
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$	320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$	7.00	\$0.00	
604S-A		4,000	SY	Non-Native Seeding for Erosion Control Method	\$	6.00	\$24,000.00	
604S-E			SY	Mulch, Hardwood	\$	23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$	24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$	23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	24.86666667	25	EA	Trees, 20 Gal	\$	600.00	\$15,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$	50.00	\$0.00	
608S-2			LS	Irrigation System			\$0.00	
609S-C			SY	Native Seeding for Erosion Control	\$	7.00	\$0.00	
610S-A		400	LF	Tree Protective Fencing Type A Chain Link Fence	\$	4.00	\$1,600.00	
610S-R	7	7	EA	Removal of Existing Trees	\$	570.00	\$3,990.00	
SP628S-C		9	EA	Filter Curb Inlet Protection	\$	120.00	\$1,080.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$	9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$	39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$	50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$	1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$	4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$	114.00	\$0.00	

700S-TM		1	LS	Total Mobilization Payment	\$ 109,000.00	\$109,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$ 120.00	\$8,400.00	70 CD/Block
824S		10	EA	Traffic Signs	\$ 400.00	\$4,000.00	
827S		4	EA	Bicycle Lane Signage	\$ 400.00	\$1,600.00	
829S			LF	Bicycle Lane Markings	\$ 400.00	\$0.00	
871S-A4W	706	720	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$2,160.00	
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B	5555.555556	5,600	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$117,600.00	10' wide connect to surrounding streets
16550S		7	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$11,200.00	
		7	EA	Light Pole and LED Light	\$ 3,700.00	\$25,900.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		7	EA	Electrical Pull Box	\$ 1,200.00	\$8,400.00	
		700	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$86,100.00	100' per light pole

SUBTOTAL	\$2,278,011.00
CONTINGENCY	\$569,502.75 25%
TOTAL	\$2,847,513.75

Aquatic Master Plan

Big Stacy

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		475	LF	Remove P.C. Concrete Curb	\$ 20.00	\$9,500.00	replace existing curb/gutter.
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	1625	1700	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$34,000.00	flatwork and ADA parking
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	107.654321	110	CY	Excavation, Unclassified	\$ 52.00	\$5,720.00	flatwork and ADA parking
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	242.2222222	250	SY	Sub-Grade Preparation	\$ 9.00	\$2,250.00	flatwork and ADA parking
203S-A8		250	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$3,825.00	flatwork and ADA parking
210S-A8	53.82716049	55	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$2,310.00	flatwork and ADA parking
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		480	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$8,160.00	ADA parking - reconstruct ex. spaces
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 18,000.00	\$18,000.00	\$3/sf x 6000sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 25,800.00	\$25,800.00	\$4.30/sf x 6000sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		450	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$8,100.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	6000	6,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$72,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		2	EA	Parking Lot Bumper Curbs	\$	120.00	\$240.00	at ADA parking spaces
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to existing site drainage
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	on E. Live Oak Street
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	SD connection
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connection to WW on Live Oak
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	MH on E. Live Oak Street
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	outfall at Blunn Creek
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking spaces
509S-1		1,100	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,200.00	
510-AW2C		60	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$5,460.00	irrigation service
510-AW-4-350		60	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$8,400.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		150	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$28,950.00	fire line and main tap
510-ASW18		400	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$54,400.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	discharge to Blunn Creek
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		150	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$18,750.00	wastewater service
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and Water Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	at fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer for Irrigation Service)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer for Fire Service)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 200.00	\$800.00	outfall at Blunn Creek
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A		3,700	SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$22,200.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	40	5	EA	Trees, 20 Gal	\$ 600.00	\$3,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		250	SY	Native Seeding for Erosion Control	\$ 7.00	\$1,750.00	
610S-A		250	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$1,000.00	
610S-R		5	EA	Removal of Existing Trees	\$ 570.00	\$2,850.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 54,000.00	\$54,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		2	EA	Bicycle Lane Signage	\$ 400.00	\$800.00	
829S		450	LF	Bicycle Lane Markings	\$ 8.00	\$3,600.00	
871S-A4W		50	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$150.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		36	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$432.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		3	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$4,800.00	
		3	EA	Light Pole and LED Light	\$ 3,700.00	\$11,100.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		3	EA	Electrical Pull Box	\$ 1,200.00	\$3,600.00	
		300	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$36,900.00	100' per light pole.

SUBTOTAL	\$1,119,707.00
CONTINGENCY	\$279,926.75 25%
TOTAL	\$1,399,633.75

Aquatic Master Plan

Brentwood

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity	Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	70		70	LF	Remove P.C. Concrete Curb	\$ 20.00	\$1,400.00	for ADA drop-off space
104S-B				SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	400		400	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$8,000.00	
SP104S				SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB				EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
				CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
				LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
				LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
				EA	Demolition, Light Pole	\$ 600.00	\$0.00	
				LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
				CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
				CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
				TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	360.4938272		370	CY	Excavation, Unclassified	\$ 52.00	\$19,240.00	
120S-A				CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A				CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T				CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A				CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	811.1111111		820	SY	Sub-Grade Preparation	\$ 9.00	\$7,380.00	
203S-A8			820	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$12,546.00	
210S-A8	180		180	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$7,560.00	
340S-B-C3				SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			45	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$765.00	reconstruct for ADA drop-off
340S-B-C1.5				SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A				SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY				CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D			1	EA	Concrete Structure, Storm Water Deetention	\$ 41,400.00	\$41,400.00	\$3/sf x 13800sf IC
403S-EA-WQ			1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 59,340.00	\$59,340.00	\$4.30/sf x 13800sf IC
414S-C				SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			70	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,260.00	at ADA drop-off space
430S-E				LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	6875		6,900	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$82,800.00	
432S-6				SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1			2	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$3,600.00	
432S-SAC-1				EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1				EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2				EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			2	EA	Streetscape Bicycle Rack	\$ 800.00	\$1,600.00	
432S-SAC-4				EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C				EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	ADA dropp-off space ramp
SP432S-K				EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C				SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to SD on Arroyo Seco
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Arroyo Seco
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD on Arroyo Seco
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Arroyo Seco
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	connect to WW main on Arroyo Seco
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	outfall at Arroyo Seco
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA drop-off space
509S-1		900	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$1,800.00	
510-AW2C		60	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$5,460.00	irrigation service
510-AW-4-350		60	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$8,400.00	domestic service
510-AW-6-350			LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AW-8-350		120	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$23,160.00	main service
510-ASW18		320	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$43,520.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	outfall to Arroyo Seco
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		140	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$17,500.00	WW service to Arroyo Seco WW main
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Arroyo Seco
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Arroyo Seco
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6			EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$0.00	
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B			EA	Fire Hydrant	\$ 5,200.00	\$0.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1		EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$0.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	at SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	45.83333333	46	EA	Trees, 20 Gal	\$ 600.00	\$27,600.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		800	SY	Native Seeding for Erosion Control	\$ 7.00	\$5,600.00	
610S-A		750	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$3,000.00	
610S-R		5	EA	Removal of Existing Trees	\$ 570.00	\$2,850.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S	1160	2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 54,000.00	\$54,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block

824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	
827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S		550	LF	Bicycle Lane Markings	\$ 8.00	\$4,400.00	
871S-A4W		100	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mills in Thickness, White in Color	\$ 3.00	\$300.00	
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mills in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mills in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B	740.7407407	750	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$15,750.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per pole

SUBTOTAL	\$1,114,731.00
CONTINGENCY	\$278,682.75 25%
TOTAL	\$1,393,413.75

Aquatic Master Plan

Canyon Vista

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		400	LF	Remove P.C. Concrete Curb	\$ 20.00	\$8,000.00	reconstruct along ADA parking spaces
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C		2500	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$50,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	246.9135802	250	CY	Excavation, Unclassified	\$ 52.00	\$13,000.00	
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	555.5555556	560	SY	Sub-Grade Preparation	\$ 9.00	\$5,040.00	
203S-A8		560	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$8,568.00	
210S-A8		125	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$5,250.00	
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		90	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,530.00	reconstruct ADA parking spaces
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 34,500.00	\$34,500.00	\$3/sf x 11500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 49,500.00	\$49,500.00	\$4.30/sf x 11500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		400	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$7,200.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5		5,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$60,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		5	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$9,000.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		4	EA	Streetscape Bicycle Rack	\$ 800.00	\$3,200.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		150	LF	Pedestrian ADA Railing	\$ 102.00	\$15,300.00	access ramp to pool
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		3	EA	Parking Lot Bumper Curbs	\$	120.00	\$360.00	ADA parking spaces
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Yaupon
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	SD connection
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Yaupon
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at MH on Yaupon
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking spaces
509S-1		840	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$1,680.00	
510-AW2C		60	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$5,460.00	irrigation service
510-AW-4-350		60	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$8,400.00	domestic service
510-AW-6-350			LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AW-8-350		120	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$23,160.00	main service
510-ASW18		200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$27,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		200	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$25,000.00	WW service to Yaupon WW main
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connection to WW main on Yaupon
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connection to W main on Yaupon
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6			EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$0.00	
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B			EA	Fire Hydrant	\$ 5,200.00	\$0.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation line
511S-C8	1		EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$0.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	at SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	0	34	EA	Trees, 20 Gal	\$ 600.00	\$20,400.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		250	SY	Native Seeding for Erosion Control	\$ 7.00	\$1,750.00	at SD outfall
610S-A		400	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$1,600.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 49,000.00	\$49,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S			LF	Bicycle Lane Markings	\$ 8.00	\$0.00	
871S-A4W		50	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$150.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		3	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$1,200.00	
874S-A		50	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$600.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S			EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$0.00	
			EA	Light Pole and LED Light	\$ 3,700.00	\$0.00	
			EA	Electrical Panel Enclosure	\$ 21,000.00	\$0.00	
			EA	Electrical Pull Box	\$ 1,200.00	\$0.00	
			LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$0.00	
					SUBTOTAL	\$1,027,188.00	
					CONTINGENCY	\$256,797.00	
					TOTAL	\$1,283,985.00	

Aquatic Master Plan

Civitan

Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		130	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,600.00	reconstruction at ADA parking spaces
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	5750	5800	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$116,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	469.1358025	470	CY	Excavation, Unclassified	\$ 52.00	\$24,440.00	
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1055.555556	1,060	SY	Sub-Grade Preparation	\$ 9.00	\$9,540.00	
203S-A8		1,060	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$16,218.00	
210S-A8	234.5679012	240	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$10,080.00	
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		1,060	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$18,020.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 41,700.00	\$41,700.00	\$3/sf x 13900sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 59,800.00	\$59,800.00	\$4.30/sf x 13900sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		130	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$2,340.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5		7,100	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$85,200.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		1	EA	Streetscape Bicycle Rack	\$ 800.00	\$800.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connection to WW main on Vargas
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	SD connection
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connection to WW main on Vargas
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	connection to WW main on Vargas
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		800	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$1,600.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350			LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AW-8-350		100	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$19,300.00	main service
510-ASW18		200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$27,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		200	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$25,000.00	WW service to Vargas
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Vargas
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Vargas
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6			EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$0.00	
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B			EA	Fire Hydrant	\$ 5,200.00	\$0.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1		EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$0.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	0	47	EA	Trees, 20 Gal	\$ 600.00	\$28,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		1,060	SY	Native Seeding for Erosion Control	\$ 7.00	\$7,420.00	
610S-A		550	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$2,200.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 58,000.00	\$58,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		40	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$24,000.00	160 CD/Block
SP803S-PS		18	CD	Portable Changeable Message Signs	\$ 120.00	\$2,160.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S		600	LF	Bicycle Lane Markings	\$ 8.00	\$4,800.00	
871S-A4W		200	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$600.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per light pole
					SUBTOTAL	\$1,206,808.00	
					CONTINGENCY	\$301,702.00	25%
					TOTAL	\$1,508,510.00	

Aquatic Master Plan

Dick Nichols

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A			LF	Remove P.C. Concrete Curb	\$ 20.00	\$0.00	
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C			SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$0.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A			CY	Excavation, Unclassified	\$ 52.00	\$0.00	
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S		280	SY	Sub-Grade Preparation	\$ 9.00	\$2,520.00	
203S-A8		280	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$4,284.00	
210S-A8		62	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$2,604.00	
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 24,000.00	\$24,000.00	\$3/sf x 8000sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 34,400.00	\$34,400.00	\$4.30/sf x 8000sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$0.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	2500	2,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$30,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	4	5	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$9,000.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Beckett
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connection to WW main on Beckett
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Beckett
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S			EA	Inlet, Standard 10 Foot	\$	5,400.00	\$0.00	
509S-1		2,040	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$4,080.00	
510-AW2C		60	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$5,460.00	irrigation service
510-AW-4-350	500	500	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$70,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	500	500	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$96,500.00	water main service
510-ASW18		200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$27,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8	500	500	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$62,500.00	WW service to main on Beckett
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Beckett
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Beckett
510-JW8X12			EA	Wet Connections, 8" Dia. x 12" Dia.			
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	2	2	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	2	2	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$4,600.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	16.66666667	17	EA	Trees, 20 Gal	\$ 600.00	\$10,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2			LS	Irrigation System		\$0.00	
609S-C		250	SY	Native Seeding for Erosion Control	\$ 7.00	\$1,750.00	SD outfall
610S-A		600	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$2,400.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 53,000.00	\$53,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond			EA	Bond Project Sign	\$ 700.00	\$0.00	
803S-SF		1	LF	Safety Fence	\$ 3.00	\$3.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		36	CD	Portable Changeable Message Signs	\$ 120.00	\$4,320.00	70 CD/Block

824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	
827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S			LF	Bicycle Lane Markings	\$ 400.00	\$0.00	
871S-A4W		1,370	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mills in Thickness, White in Color	\$ 3.00	\$4,110.00	
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mills in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mills in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A		1,370	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$16,440.00	
1301S-B	1111.111111	1,200	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$25,200.00	10' wide connect to surrounding streets (check if needed)
16550S			EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$0.00	
			EA	Light Pole and LED Light	\$ 3,700.00	\$0.00	
			EA	Electrical Panel Enclosure	\$ 21,000.00	\$0.00	
			EA	Electrical Pull Box	\$ 1,200.00	\$0.00	
			LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$0.00	
					SUBTOTAL	\$1,112,631.00	
					CONTINGENCY	\$278,157.75	25%
					TOTAL	\$1,390,788.75	

Aquatic Master Plan

Dittmar

Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937

Item No.	Quantity	Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	325		350	LF	Remove P.C. Concrete Curb	\$ 20.00	\$7,000.00	at ADA parking reconstruction
104S-B				SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	5150		5200	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$104,000.00	
SP104S				SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB				EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
				CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
				LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
				LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
				EA	Demolition, Light Pole	\$ 600.00	\$0.00	
				LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
				CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
				CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
				TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	256.7901235		260	CY	Excavation, Unclassified	\$ 52.00	\$13,520.00	5200 sf assuming 2in HMAC with 8in base and 6in subgrade
120S-A				CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A				CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T				CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A				CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	577.7777778		600	SY	Sub-Grade Preparation	\$ 9.00	\$5,400.00	5200 sf with 6in subgrade
203S-A8			600	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$9,180.00	see above item
210S-A8	128.3950617		130	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$5,460.00	5200 sf with 8in base
340S-B-C3				SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2	577.7777778		600	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$10,200.00	5200 sf with 2in HMAC
340S-B-C1.5				SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A				SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY				CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D			1	EA	Concrete Structure, Storm Water Detention	\$ 54,000.00	\$54,000.00	\$3/sf x 18000sf IC
403S-EA-WQ			1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 77,400.00	\$77,400.00	\$4.30/sf x 18000sf IC
414S-C				SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A	1050		1,100	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$19,800.00	3 times the removed (350 LF)
430S-E				LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5			5,200	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$62,400.00	
432S-6				SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1			4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1				EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1				EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2				EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3				EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4				EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C				EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			300	LF	Pedestrian ADA Railing	\$ 102.00	\$30,600.00	
SP432S-K				EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C				SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		5	EA	Parking Lot Bumper Curbs	\$	120.00	\$600.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to on-site WW main
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$0.00	
506-MWW60		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$8,000.00	connect to on-site WW main
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to on-site WW main
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		2,180	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$4,360.00	
510-AW2C		300	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$27,300.00	irrigation service
510-AW-4-350		300	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$42,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		100	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$19,300.00	main service
510-ASW18		600	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$81,600.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		600	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$75,000.00	WW service to on-site main
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connection to WW main on site
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connection to W main on Dittmar
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$32,775.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	0	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		250	SY	Native Seeding for Erosion Control	\$ 7.00	\$1,750.00	at SD outfall
610S-A		1,200	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,800.00	
610S-R			EA	Removal of Existing Trees	\$ 570.00	\$0.00	
SP628S-C		3	EA	Filter Curb Inlet Protection	\$ 120.00	\$360.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 70,000.00	\$70,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$ 120.00	\$8,400.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S			LF	Bicycle Lane Markings	\$ 400.00	\$0.00	
871S-A4W		350	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$1,050.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		5	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$2,000.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B	166.6666667	200	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$4,200.00	10' wide connect to surrounding streets
16550S			EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$0.00	
			EA	Light Pole and LED Light	\$ 3,700.00	\$0.00	
			EA	Electrical Panel Enclosure	\$ 21,000.00	\$0.00	
			EA	Electrical Pull Box	\$ 1,200.00	\$0.00	
			LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$0.00	
					SUBTOTAL	\$1,457,995.00	
					CONTINGENCY	\$364,498.75	
					TOTAL	\$1,822,493.75	

Aquatic Master Plan

Dottie Jordan

Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937

Item No.	Quantity	Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A			100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	removal at new curb ramps
104S-B				SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	1500		1500	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$30,000.00	
SP104S				SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB				EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
				CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
				LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
				LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
				EA	Demolition, Light Pole	\$ 600.00	\$0.00	
				LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
				CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
				CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
				TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	229.1358025		230	CY	Excavation, Unclassified	\$ 52.00	\$11,960.00	
120S-A				CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A				CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T				CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A				CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	515.5555556		1,120	SY	Sub-Grade Preparation	\$ 9.00	\$10,080.00	
203S-A8			1,120	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$17,136.00	
210S-A8	114.5679012		250	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$10,500.00	
340S-B-C3				SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2				SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5				SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A				SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY				CY	Concrete Structure, _____		\$0.00	
403S-EA-D			1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 49,500.00	\$49,500.00	\$3/sf x 16500sf IC
403S-EA-WQ			1	EA	Concrete Structure, Storm Water Detention	\$ 70,950.00	\$70,950.00	\$4.30/sf x 16500sf IC
414S-C				SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A				LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$0.00	
430S-E				LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	9962.5		10,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$120,000.00	
432S-6				SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1			6	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$10,800.00	
432S-SAC-1				EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1				EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2				EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3				EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4				EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C				EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K				EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C				SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Loyola
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	Connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Loyola
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Loyola
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,160	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,320.00	
510-AW2C	150	150	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$13,650.00	irrigation service
510-AW-4-350	100	100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	210	210	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$40,530.00	main service
510-ASW18	140	200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$27,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		220	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$27,500.00	WW service to main on Loyola
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Loyola
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Loyola
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW	0.155	1.0	TON	Ductile Iron Fittings	\$ 11,500.00	\$11,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0.4	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0.84	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8		1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	at SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	66.41666667	67	EA	Trees, 20 Gal	\$ 600.00	\$40,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		600	SY	Native Seeding for Erosion Control	\$ 7.00	\$4,200.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,000.00	
610S-R		67	EA	Removal of Existing Trees	\$ 570.00	\$38,190.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 65,000.00	\$65,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		5	EA	Bicycle Lane Signage	\$ 400.00	\$2,000.00	
829S		1,100	LF	Bicycle Lane Markings	\$ 8.00	\$8,800.00	
871S-A4W		480	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$1,440.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		480	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$5,760.00	
1301S-B	1106.944444	1,200	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$25,200.00	10' wide connect to surrounding streets
16550S		3	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$4,800.00	
		3	EA	Light Pole and LED Light	\$ 3,700.00	\$11,100.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		3	EA	Electrical Pull Box	\$ 1,200.00	\$3,600.00	
		300	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$36,900.00	100' per light pole
					SUBTOTAL	\$1,362,496.00	
					CONTINGENCY	\$340,624.00	
					TOTAL	\$1,703,120.00	

Aquatic Master Plan

Dove Springs

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity	Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	550		600	LF	Remove P.C. Concrete Curb	\$ 20.00	\$12,000.00	removal at new curb ramps
104S-B				SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	3600		3600	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$72,000.00	
SP104S				SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB				EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
				CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
				LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
				LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
				EA	Demolition, Light Pole	\$ 600.00	\$0.00	
				LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
				CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
				CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
				TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	311.1111111		130	CY	Excavation, Unclassified	\$ 52.00	\$6,760.00	
120S-A				CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A				CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T				CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A				CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	400		340	SY	Sub-Grade Preparation	\$ 9.00	\$3,060.00	
203S-A8			340	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$5,202.00	
210S-A8	88.88888889		74	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$3,108.00	
340S-B-C3				SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2				SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5				SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A				SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY				CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D			1	EA	Concrete Structure, Storm Water Detention	\$ 40,500.00	\$40,500.00	\$3/sf x 13500sf IC
403S-EA-WQ			1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 58,050.00	\$58,050.00	\$4.30/sf x 13500sf IC
414S-C				SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			600	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$10,800.00	
430S-E				LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	3000		3,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$36,000.00	
432S-6				SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1			4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1				EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1				EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2				EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3				EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4				EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C				EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K				EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C				SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW			EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$0.00	
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$0.00	
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M			EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$0.00	
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool area
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		2,280	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$4,560.00	
510-AW2C		150	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$13,650.00	irrigation service
510-AW-4-350		150	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$21,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		200	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$38,600.00	main service
510-ASW18		1,500	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$204,000.00	improve drainage around pool area
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8			LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	125.00	\$0.00	
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$	4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$	6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$	55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$	321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$	2,000.00	\$0.00	
510-BWW8x6			EA	Connecting New 8" Wastewater Service to Existing Private Service	\$	4,600.00	\$0.00	
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$	3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$	3,300.00	\$3,300.00	connect to W main on site
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$	4,600.00	\$0.00	
510-KW		1	TON	Ductile Iron Fittings	\$	11,500.00	\$11,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$	1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$	1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$	1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$	1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$	2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$	5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$	4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$	16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$	50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$	140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$	320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$	7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$	6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$	23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$	24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$	23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	20	20	EA	Trees, 20 Gal	\$	600.00	\$12,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$	50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$	10,000.00	\$10,000.00	
609S-C		250	SY	Native Seeding for Erosion Control	\$	7.00	\$1,750.00	at SD outfall
610S-A		500	LF	Tree Protective Fencing Type A Chain Link Fence	\$	4.00	\$2,000.00	
610S-R		2	EA	Removal of Existing Trees	\$	570.00	\$1,140.00	
SP628S-C		5	EA	Filter Curb Inlet Protection	\$	120.00	\$600.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$	9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$	39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$	50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$	1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$	4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$	114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$	69,000.00	\$69,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$	20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$	1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$	2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$	700.00	\$700.00	
803S-SF			LF	Safety Fence	\$	3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$	400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$	600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$	120.00	\$8,400.00	70 CD/Block
824S		4	EA	Traffic Signs	\$	400.00	\$1,600.00	

827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S			LF	Bicycle Lane Markings	\$ 400.00	\$0.00	
871S-A4W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$0.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B	1527.777778	1,600	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$33,600.00	10' wide connect to surrounding streets
16550S		5	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$8,000.00	
		5	EA	Light Pole and LED Light	\$ 3,700.00	\$18,500.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		5	EA	Electrical Pull Box	\$ 1,200.00	\$6,000.00	
		500	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$61,500.00	100' per light pole
SUBTOTAL						\$1,431,420.00	
CONTINGENCY						\$357,855.00	
TOTAL						\$1,789,275.00	

Aquatic Master Plan

Garrison

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	600	600	LF	Remove P.C. Concrete Curb	\$ 20.00	\$12,000.00	existing one side of driveway and one side of existing parking lot.
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	500	500	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$10,000.00	existing 25' driveway to be demolished
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	2289.777778	3,100	CY	Excavation, Unclassified	\$ 52.00	\$161,200.00	46368 sf new parking lot + 40'x300' HMAC new driveway + 3500 sf sidewalks + 800sf concrete new driveway) = 62,668 sf x 16" total depth
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	5152	6,970	SY	Sub-Grade Preparation	\$ 9.00	\$62,730.00	62668sf
203S-A8	5152	6,970	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$106,641.00	
210S-A8	1144.888889	1,550	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$65,100.00	62668sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2	5152	6,490	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$110,330.00	46368sf + 40'x300' = 58368sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure,	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 252,600.00	\$252,600.00	\$3/sf x 84200sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 362,060.00	\$362,060.00	\$4.30/sf x 84200sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A	2600	2,600	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$46,800.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	3500	3,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$42,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	4	4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	

432S-SAC-4			EA	Streetscape Trash Receptacle	\$	2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$	6,600.00	\$0.00	
432S-PRC-1			LF	Pedestrian ADA Railing	\$	102.00	\$0.00	
SP432S-K			EA	Art Kiosks	\$	25,000.00	\$0.00	
433S-C	800	800	SF	Type II P.C. Concrete Driveway	\$	11.00	\$8,800.00	new driveway within Manchaca ROW
435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S	5	5	EA	Parking Lot Bumper Curbs	\$	120.00	\$600.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW			EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$0.00	
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$0.00	
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M			EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$0.00	
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		5	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$28,000.00	improve drainage around pool site
508S-I10S		5	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$27,000.00	for parking lot expansion and at ADA parking spaces
509S-1		2,780	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$5,560.00	
510-AW2C		300	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$27,300.00	irrigation service
510-AW-4-350	300	300	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$42,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	600	600	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$115,800.00	main service
510-ASW18		1,200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$163,200.00	improve drainage around pool site
510-ASW24		300	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$47,100.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	

510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 114.00	\$0.00	
510-AWW8			LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$0.00	
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2	1	1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4	1	1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6			EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$0.00	
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Manchaca
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		2	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$2,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	1.2	2	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	2.4	3	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$6,900.00	1 each/250 ft
511S-B	2	2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		8	SY	Dry-Riprap	\$ 140.00	\$1,120.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	SD outfall
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	23.33333333	24	EA	Trees, 20 Gal	\$ 600.00	\$14,400.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		50	SY	Native Seeding for Erosion Control	\$ 7.00	\$350.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,000.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		100	LF	Rock Berm	\$ 39.00	\$3,900.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		2	EA	Stabilized Construction Entrance	\$ 1,700.00	\$3,400.00	
642S		3,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$12,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 133,000.00	\$133,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	

701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		10	EA	Traffic Signs	\$ 400.00	\$4,000.00	
827S		2	EA	Bicycle Lane Signage	\$ 400.00	\$800.00	
829S		300	LF	Bicycle Lane Markings	\$ 400.00	\$120,000.00	
871S-A4W		3,600	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$10,800.00	
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A		870	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$10,440.00	
1301S-B	555.5555556	560	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$11,760.00	10' wide connect to surrounding streets
16550S	9	9	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$14,400.00	
	9	9	EA	Light Pole and LED Light	\$ 3,700.00	\$33,300.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		9	EA	Electrical Pull Box	\$ 1,200.00	\$10,800.00	
		900	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$110,700.00	100' per light pole

SUBTOTAL	\$2,784,251.00
CONTINGENCY	\$696,062.75
TOTAL	\$3,480,313.75

Aquatic Master Plan

Gillis

Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	365	100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	at ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	1720	1750	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$35,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	358.0246914	300	CY	Excavation, Unclassified	\$ 52.00	\$15,600.00	5500sf + 540sf = 6040sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	805.5555556	680	SY	Sub-Grade Preparation	\$ 9.00	\$6,120.00	6040sf
203S-A8		680	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$10,404.00	
210S-A8	179.0123457	150	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$6,300.00	6040sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		60	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,020.00	540sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 36,000.00	\$36,000.00	\$3/sf x 12000sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 51,600.00	\$51,600.00	\$4.30/sf x 12000sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		100	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,800.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	5450	5,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$66,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	3	3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		2	EA	Streetscape Bicycle Rack	\$ 800.00	\$1,600.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		3	EA	Parking Lot Bumper Curbs	\$	120.00	\$360.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Vargas
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Vargas
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Vargas
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking and curb ramp
509S-1		1,200	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,400.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350			LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AW-8-350		150	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$28,950.00	main service to Vargas
510-ASW18		280	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$38,080.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		470	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$58,750.00	WW service to main on Cargas
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Vargas
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Vargas
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6			EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$0.00	
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B			EA	Fire Hydrant	\$ 5,200.00	\$0.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1		EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$0.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	36.33333333	37	EA	Trees, 20 Gal	\$ 600.00	\$22,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		810	SY	Native Seeding for Erosion Control	\$ 7.00	\$5,670.00	
610S-A	1290	1,300	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$5,200.00	
610S-R		4	EA	Removal of Existing Trees	\$ 570.00	\$2,280.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 54,000.00	\$54,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S		900	LF	Bicycle Lane Markings	\$ 8.00	\$7,200.00	
871S-A4W	45	50	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$150.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		3	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$1,200.00	
874S-A		40	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$480.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per light pole
					SUBTOTAL	\$1,131,174.00	
					CONTINGENCY	\$282,793.50	
					TOTAL	\$1,413,967.50	

Aquatic Master Plan

Givens

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		240	LF	Remove P.C. Concrete Curb	\$ 20.00	\$4,800.00	reconstruction at ADA parking and curb ramps
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	2575	2,600	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$52,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	1125.925926	1,120	CY	Excavation, Unclassified	\$ 52.00	\$58,240.00	22800sf + 1800sf = 24600sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	2533.333333	2,740	SY	Sub-Grade Preparation	\$ 9.00	\$24,660.00	24600sf
203S-A8		2,740	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$41,922.00	
210S-A8	562.962963	610	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$25,620.00	24600sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		200	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$3,400.00	1800sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 106,800.00	\$106,800.00	\$3/sf x 35600sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 153,080.00	\$153,080.00	\$4.30/sf x 35600sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		240	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$4,320.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	22725	22,800	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$273,600.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		8	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$14,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		5	EA	Parking Lot Bumper Curbs	\$	120.00	\$600.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on site
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$0.00	
506-MSW60		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$7,400.00	connect to SD system
506-MWW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$0.00	
506-MWW60		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$8,000.00	connect to WW main on site
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on site
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		4	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$22,400.00	improve drainage around pool site
508S-I10S		2	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$10,800.00	at ADA parking
509S-1		1,760	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$3,520.00	
510-AW2C		100	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$9,100.00	irrigation service
510-AW-4-350		100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		380	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$73,340.00	main service to E. 12th
510-ASW18		700	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$95,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		200	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$25,000.00	WW service to main on site
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on site
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on E. 12th
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	151.5	30	EA	Trees, 20 Gal	\$ 600.00	\$18,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		2,600	SY	Native Seeding for Erosion Control	\$ 7.00	\$18,200.00	
610S-A		200	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$800.00	
610S-R		5	EA	Removal of Existing Trees	\$ 570.00	\$2,850.00	
SP628S-C		1	EA	Filter Curb Inlet Protection	\$ 120.00	\$120.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 90,000.00	\$90,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$ 120.00	\$8,400.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		6	EA	Bicycle Lane Signage	\$ 160.00	\$960.00	
829S	4415	4,500	LF	Bicycle Lane Markings	\$ 8.00	\$36,000.00	
871S-A4W	143	150	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$450.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		5	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$2,000.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S			EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$0.00	
			EA	Light Pole and LED Light	\$ 3,700.00	\$0.00	
			EA	Electrical Panel Enclosure	\$ 21,000.00	\$0.00	
			EA	Electrical Pull Box	\$ 1,200.00	\$0.00	
			LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$0.00	
					SUBTOTAL	\$1,873,722.00	
					CONTINGENCY	\$468,430.50	
					TOTAL	\$2,342,152.50	

Aquatic Master Plan

Kennemer

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	for ADA parking reconstruction and curb ramps
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C		400	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$8,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	19.75308642	90	CY	Excavation, Unclassified	\$ 52.00	\$4,680.00	1300sf + 450sf = 1750sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	44.44444444	200	SY	Sub-Grade Preparation	\$ 9.00	\$1,800.00	1750sf
203S-A8		200	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$3,060.00	
210S-A8	9.87654321	44	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$1,848.00	1750sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		50	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$850.00	450sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 23,400.00	\$23,400.00	\$3/sf x 7800sfIC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 33,600.00	\$33,600.00	\$4.30/sf x 7800sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		100	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,800.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	1220	1,300	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$15,600.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		2	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$3,600.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		3	EA	Parking Lot Bumper Curbs	\$	120.00	\$360.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Peyton Gin
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Peyton Gin
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Peyton Gin
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,010	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,020.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		150	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$28,950.00	main service to Peyton Gin
510-ASW18		300	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$40,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		180	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$22,500.00	WW service to Peyton Gin
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Peyton Gin
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Peyton Gin
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	8.133333333	10	EA	Trees, 20 Gal	\$ 600.00	\$6,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		50	SY	Native Seeding for Erosion Control	\$ 7.00	\$350.00	
610S-A		150	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$600.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 48,000.00	\$48,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S		100	LF	Bicycle Lane Markings	\$ 8.00	\$800.00	
871S-A4W		50	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$150.00	
871S-A24W		20	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$320.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		50	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$600.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		3	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$4,800.00	
		3	EA	Light Pole and LED Light	\$ 3,700.00	\$11,100.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		3	EA	Electrical Pull Box	\$ 1,200.00	\$3,600.00	
		300	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$36,900.00	100' per light pole
SUBTOTAL						\$996,818.00	
CONTINGENCY						\$249,204.50	
TOTAL						\$1,246,022.50	

Aquatic Master Plan

Little Stacy

Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		160	LF	Remove P.C. Concrete Curb	\$ 20.00	\$3,200.00	at ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C		2000	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$40,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	370.3703704	300	CY	Excavation, Unclassified	\$ 52.00	\$15,600.00	5500sf + 500sf = 6000sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	833.3333333	670	SY	Sub-Grade Preparation	\$ 9.00	\$6,030.00	6000sf
203S-A8		670	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$10,251.00	
210S-A8	185.1851852	150	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$6,300.00	6000sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		60	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,020.00	500sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 17,400.00	\$17,400.00	\$3/sf x 5800sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 24,940.00	\$24,940.00	\$4.30/sf x 5800sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		160	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$2,880.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	5500	5,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$66,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		6	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$10,800.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		1	EA	Streetscape Bicycle Rack	\$ 800.00	\$800.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on East Side
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on East Side
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	connection at WW main on East Side
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking and curb ramp
509S-1		1,160	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,320.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		400	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$77,200.00	main service to main on Alameda
510-ASW18		300	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$40,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		80	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$10,000.00	WW service to main on East Side
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on East Side
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Alameda
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	36.66666667	37	EA	Trees, 20 Gal	\$ 600.00	\$22,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		900	SY	Native Seeding for Erosion Control	\$ 7.00	\$6,300.00	
610S-A		1,500	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$6,000.00	
610S-R		15	EA	Removal of Existing Trees	\$ 570.00	\$8,550.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 60,000.00	\$60,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S		500	LF	Bicycle Lane Markings	\$ 8.00	\$4,000.00	
871S-A4W		200	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$600.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B		750	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$15,750.00	10' wide connect to surrounding streets
16550S		5	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$8,000.00	
		5	EA	Light Pole and LED Light	\$ 3,700.00	\$18,500.00	
		2	EA	Electrical Panel Enclosure	\$ 21,000.00	\$42,000.00	
		5	EA	Electrical Pull Box	\$ 1,200.00	\$6,000.00	2 different streets
		500	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$61,500.00	100' per light pole
					SUBTOTAL	\$1,256,571.00	
					CONTINGENCY	\$314,142.75	
					TOTAL	\$1,570,713.75	

Aquatic Master Plan

Mable Davis

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	200	200	LF	Remove P.C. Concrete Curb	\$ 20.00	\$4,000.00	existing driveway one side and for parking lot expansion
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	500	500	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$10,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	122.6666667	660	CY	Excavation, Unclassified	\$ 52.00	\$34,320.00	2484sf + 356sf + 2500sf + 40'x200' = 13340sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	276	1,490	SY	Sub-Grade Preparation	\$ 9.00	\$13,410.00	13340sf
203S-A8	276	1,490	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$22,797.00	
210S-A8	61.33333333	330	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$13,860.00	13340sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2	276	1,210	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$20,570.00	2484sf + 356sf + 40'x200' = 10840sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 109,620.00	\$109,620.00	\$3/sf x 36540sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 157,130.00	\$157,130.00	\$4.30/sf x 36540sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A	102	200	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$3,600.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	2500	2,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$30,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	

433S-C	800	800	SF	Type II P.C. Concrete Driveway	\$ 11.00	\$8,800.00	new driveway within ROW
435S			LF	P.C. Concrete Steps	\$ 160.00	\$0.00	
439S	6	6	EA	Parking Lot Bumper Curbs	\$ 120.00	\$720.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$ 950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$ 243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$ 2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$ 2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$ 2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$ 6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$ 2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$ 2,300.00	\$2,300.00	connect to WW main in Parker
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$ 340.00	\$0.00	
506-MSW48	1		EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$ 5,700.00	\$0.00	
506-MSW60		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$ 7,400.00	\$7,400.00	connect to SD system
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$ 6,300.00	\$6,300.00	connect to WW main in Parker
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$ 8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$ 5,200.00	\$5,200.00	at connection to WW main in Parker
508S-H18			EA	Headwalls for 18" Pipe	\$ 3,000.00	\$0.00	
508S-H24			EA	Headwalls for 24" Pipe	\$ 3,200.00	\$0.00	
508S-H48		1	EA	Headwalls for 48" Pipe	\$ 6,400.00	\$6,400.00	SD outfall
508S-IG		6	EA	Inlet, Grate (Area Inlet)	\$ 5,600.00	\$33,600.00	improve drainage around pool site
508S-I10S	1	4	EA	Inlet, Standard 10 Foot	\$ 5,400.00	\$21,600.00	for parking expansion
509S-1		2,530	LF	Trench Excavation Safety Protective Systems (all depths)	\$ 2.00	\$5,060.00	
510-AW2C		200	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$ 91.00	\$18,200.00	irrigation service
510-AW-4-350	400	400	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$ 140.00	\$56,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$ 159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	450	450	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$ 193.00	\$86,850.00	main service
510-ASW18			LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 136.00	\$0.00	
510-ASW24		600	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 157.00	\$94,200.00	improve drainage around pool site
510-ASW30		400	LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 249.00	\$99,600.00	to SD outfall
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$ 403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 114.00	\$0.00	

510-AWW8	400	400	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	125.00	\$50,000.00	Wastewater
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$	4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$	6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2	1	1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$	55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4	1	1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$	321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$	2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$	4,600.00	\$4,600.00	connect to WW main in Parker
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$	3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$	3,300.00	\$3,300.00	connect to W main in Parker
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$	4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$	11,500.00	\$23,000.00	5 lb/ft
511S-A2		2	EA	Valves, Gate Type, 2" Diameter	\$	1,000.00	\$2,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$	1,200.00	\$0.00	
511S-A4	1.6	2	EA	Valves, Gate Type, 4" Diameter	\$	1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$	1,900.00	\$3,800.00	for fire hydrants
511S-A8	1.8	2	EA	Valves, Gate Type, 8" Diameter	\$	2,300.00	\$4,600.00	1 each/250 ft
511S-B	2	2	EA	Fire Hydrant	\$	5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$	4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$	16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$	50.00	\$0.00	
591S-B		8	SY	Dry-Riprap	\$	140.00	\$1,120.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$	320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$	7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$	6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$	23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$	24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$	23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	16.66666667	17	EA	Trees, 20 Gal	\$	600.00	\$10,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$	50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$	10,000.00	\$10,000.00	
609S-C			SY	Native Seeding for Erosion Control	\$	7.00	\$0.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$	4.00	\$4,000.00	
610S-R		10	EA	Removal of Existing Trees	\$	570.00	\$5,700.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$	120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$	9.00	\$900.00	Triangular dike on pavement
639S		80	LF	Rock Berm	\$	39.00	\$3,120.00	
640S			SF	Mortared Rock Wall	\$	50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$	1,700.00	\$1,700.00	
642S		3,000	LF	Silt Fence for Erosion Control	\$	4.00	\$12,000.00	
660S			CY	Bio-Filtration Media	\$	114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$	95,000.00	\$95,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$	20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$	1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$	2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$	700.00	\$700.00	
803S-SF			LF	Safety Fence	\$	3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$	400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$	600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$	120.00	\$4,200.00	70 CD/Block
824S		10	EA	Traffic Signs	\$	400.00	\$4,000.00	

827S		4	EA	Bicycle Lane Signage	\$ 400.00	\$1,600.00	
829S		300	LF	Bicycle Lane Markings	\$ 400.00	\$120,000.00	
871S-A4W		2,500	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$7,500.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A		2,200	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$26,400.00	
1301S-B	1111.111111	1,150	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$24,150.00	10' wide connect to surrounding streets
16550S	9	9	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$14,400.00	
	9	9	EA	Light Pole and LED Light	\$ 3,700.00	\$33,300.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		9	EA	Electrical Pull Box	\$ 1,200.00	\$10,800.00	
		900	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$110,700.00	100' per light pole
SUBTOTAL						\$1,991,827.00	
CONTINGENCY						\$497,956.75	
TOTAL						\$2,489,783.75	

Aquatic Master Plan

Martin

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	at curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	2925	3000	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$60,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A		860	CY	Excavation, Unclassified	\$ 52.00	\$44,720.00	17400sf x 16"
120S-A	859		CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1933.333333	1,950	SY	Sub-Grade Preparation	\$ 9.00	\$17,550.00	17400sf
203S-A8		1,950	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$29,835.00	
210S-A8	429.6296296	430	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$18,060.00	17400sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 71,700.00	\$71,700.00	\$3/sf x 23900sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 102,770.00	\$102,770.00	\$4.30/sf x 23900sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		100	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,800.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	17350	17,400	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$208,800.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		5	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$9,000.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			LF	Pedestrian ADA Railing	\$ 102.00	\$0.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Chalmers
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Chalmers
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection at WW main on Chalmers
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,440	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,880.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		160	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$30,880.00	main service
510-ASW18	650	700	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$95,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		200	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$25,000.00	WW service to main on Chalmers
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Chalmers
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Nash Hernandez
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Couple Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	115.6666667	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		2,000	SY	Native Seeding for Erosion Control	\$ 7.00	\$14,000.00	
610S-A		100	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$400.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 75,000.00	\$75,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block

824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	
827S		3	EA	Bicycle Lane Signage	\$ 400.00	\$1,200.00	
829S		1,000	LF	Bicycle Lane Markings	\$ 8.00	\$8,000.00	
871S-A4W		100	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mills in Thickness, White in Color	\$ 3.00	\$300.00	
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mills in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mills in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A		100	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$1,200.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per light pole
					SUBTOTAL	\$1,561,725.00	
					CONTINGENCY	\$390,431.25	
					TOTAL	\$1,952,156.25	

Aquatic Master Plan

Metz

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		150	LF	Remove P.C. Concrete Curb	\$ 20.00	\$3,000.00	at ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C		4600	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$92,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	558.0246914	590	CY	Excavation, Unclassified	\$ 52.00	\$30,680.00	11300sf + 600sf = 11900sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1255.555556	1,330	SY	Sub-Grade Preparation	\$ 9.00	\$11,970.00	11900sf
203S-A8		1,330	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$20,349.00	
210S-A8	279.0123457	300	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$12,600.00	11900sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		70	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,190.00	600sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 53,400.00	\$53,400.00	\$3/sf x 17800sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 76,540.00	\$76,540.00	\$4.30/sf x 17800sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		150	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$2,700.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	11300	11,300	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$135,600.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		6	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$10,800.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		2	EA	Parking Lot Bumper Curbs	\$	120.00	\$240.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Canterbury
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Canterbury
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Canterbury
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		880	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$1,760.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		150	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$28,950.00	main service
510-ASW18		200	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$27,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		150	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$18,750.00	WW service to main on Canterbury
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Canterbury
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Canterbury
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant (see Deatil No. 511S-17)	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	75.33333333	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		1,300	SY	Native Seeding for Erosion Control	\$ 7.00	\$9,100.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,000.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 66,000.00	\$66,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		3	EA	Bicycle Lane Signage	\$ 400.00	\$1,200.00	
829S		1,000	LF	Bicycle Lane Markings	\$ 8.00	\$8,000.00	
871S-A4W		150	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$450.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		150	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$1,800.00	
1301S-B		700	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$14,700.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per light pole
					SUBTOTAL	\$1,368,409.00	
					CONTINGENCY	\$342,102.25	
					TOTAL	\$1,710,511.25	

Aquatic Master Plan

Montopolis

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	200	400	LF	Remove P.C. Concrete Curb	\$ 20.00	\$8,000.00	remove half of existing curb + curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	1150	1200	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$24,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	185.1851852	1,090	CY	Excavation, Unclassified	\$ 52.00	\$56,680.00	7452sd + 600sf + 14000sf = 22052sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	833.3333333	2,460	SY	Sub-Grade Preparation	\$ 9.00	\$22,140.00	22052sf
203S-A8		2,460	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$37,638.00	
210S-A8		550	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$23,100.00	22052sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		900	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$15,300.00	7452sf + 600sf = 8052sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 80,400.00	\$80,400.00	\$3/sf x 26800sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 115,240.00	\$115,240.00	\$4.30/sf x 26800sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		600	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$10,800.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5		14,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$168,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		8	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$14,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	

433S-C			SF	Type II P.C. Concrete Driveway	\$	11.00	\$0.00	
435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		2	EA	Parking Lot Bumper Curbs	\$	120.00	\$240.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Montopolis
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Montopolis
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Montopolis
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		2	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$10,800.00	parking expansion and ADA parking
509S-1		2,005	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$4,010.00	
510-AW2C		150	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$13,650.00	irrigation service
510-AW-4-350		100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		375	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$72,375.00	main service
510-ASW18		700	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$95,200.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	

510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	
510-AWW8		400	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	125.00	\$50,000.00	WW service to main on Montopolis
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$	4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$	6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$	55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$	321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$	2,000.00	\$0.00	
510-BWV8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$	4,600.00	\$4,600.00	connect to WW main on Montopolis
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$	3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$	3,300.00	\$3,300.00	connect to W main on Montopolis
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$	4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$	11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$	1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$	1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$	1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$	1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$	2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$	5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$	4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$	16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$	50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$	140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$	320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$	7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$	6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$	23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$	24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$	23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	0	30	EA	Trees, 20 Gal	\$	600.00	\$18,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$	50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$	10,000.00	\$10,000.00	
609S-C			SY	Native Seeding for Erosion Control	\$	7.00	\$0.00	
610S-A		400	LF	Tree Protective Fencing Type A Chain Link Fence	\$	4.00	\$1,600.00	
610S-R		3	EA	Removal of Existing Trees	\$	570.00	\$1,710.00	
SP628S-C		3	EA	Filter Curb Inlet Protection	\$	120.00	\$360.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$	9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$	39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$	50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$	1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$	4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$	114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$	83,000.00	\$83,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$	20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$	1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$	2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$	700.00	\$700.00	
803S-SF			LF	Safety Fence	\$	3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$	400.00	\$0.00	

Aquatic Master Plan

Murchison

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		60	LF	Remove P.C. Concrete Curb	\$ 20.00	\$1,200.00	curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	550	550	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$11,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	39.50617284	40	CY	Excavation, Unclassified	\$ 52.00	\$2,080.00	700sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	88.88888889	80	SY	Sub-Grade Preparation	\$ 9.00	\$720.00	700sf
203S-A8		80	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$1,224.00	
210S-A8	19.75308642	20	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$840.00	700sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 21,600.00	\$21,600.00	\$3/sf x 7200sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 30,960.00	\$30,960.00	\$4.30/sf x 7200sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		60	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,080.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	700	700	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$8,400.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		2	EA	Parking Lot Bumper Curbs	\$	120.00	\$240.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Hart
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Hart
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Hart
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,090	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,180.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		110	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$21,230.00	main service
510-ASW18	490	500	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$68,000.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		100	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$12,500.00	WW service to main on Hart
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recove Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Hart
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Hart
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	4.666666667	5	EA	Trees, 20 Gal	\$ 600.00	\$3,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		100	SY	Native Seeding for Erosion Control	\$ 7.00	\$700.00	
610S-A		250	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$1,000.00	
610S-R		5	EA	Removal of Existing Trees	\$ 570.00	\$2,850.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 47,000.00	\$47,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S			LF	Bicycle Lane Markings	\$ 8.00	\$0.00	
871S-A4W	720	870	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$2,610.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		870	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$10,440.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		3	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$4,800.00	
		3	EA	Light Pole and LED Light	\$ 3,700.00	\$11,100.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		3	EA	Electrical Pull Box	\$ 1,200.00	\$3,600.00	
		300	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$36,900.00	100' per light pole
SUBTOTAL						\$983,784.00	
CONTINGENCY						\$245,946.00	
TOTAL						\$1,229,730.00	

Aquatic Master Plan

Northwest

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A			LF	Remove P.C. Concrete Curb	\$ 20.00	\$0.00	
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C			SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$0.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A		150	CY	Excavation, Unclassified	\$ 52.00	\$7,800.00	3000sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S		340	SY	Sub-Grade Preparation	\$ 9.00	\$3,060.00	3000sf
203S-A8		340	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$5,202.00	
210S-A8		80	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$3,360.00	3000sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 73,500.00	\$73,500.00	\$3/sf x 24500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 105,350.00	\$105,350.00	\$4.30/sf x 24500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$0.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	2500	3,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$36,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	4	4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1	30	100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	Assumption
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S	5	5	EA	Parking Lot Bumper Curbs	\$	120.00	\$600.00	for accessible parking spaces
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW	1	1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Ardath
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48	1	1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Ardath
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Ardath
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24			EA	Headwalls for 24" Pipe	\$	3,200.00	\$0.00	
508S-H48		1	EA	Headwalls for 48" Pipe	\$	6,400.00	\$6,400.00	SD outfall
508S-IG		6	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$33,600.00	improve drainage around pool site
508S-I10S		4	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$21,600.00	around parking lot
509S-1		3,680	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$7,360.00	
510-AW2C		100	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$9,100.00	irrigation service
510-AW-4-350	250	300	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$42,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	500	800	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$154,400.00	main service
510-ASW18			LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$0.00	
510-ASW24		1,600	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$251,200.00	improve drainage around pool site
510-ASW30		300	LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$74,700.00	to SD outfall
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8	350	500	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$62,500.00	WW service to main on Ardath
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Ardath
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Ardath
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$36,800.00	5 lb/ft
511S-A2		2	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$2,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	1	2	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	2	3	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$6,900.00	1 each/250 ft
511S-B	2	2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	for fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		8	SY	Dry-Riprap	\$ 140.00	\$1,120.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	16.66666667	20	EA	Trees, 20 Gal	\$ 600.00	\$12,000.00	30ft apart along sidewalk / there are quite a few of existing trees
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		50	SY	Native Seeding for Erosion Control	\$ 7.00	\$350.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,000.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		4	EA	Filter Curb Inlet Protection	\$ 120.00	\$480.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		200	LF	Rock Berm	\$ 39.00	\$7,800.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		2	EA	Stabilized Construction Entrance	\$ 1,700.00	\$3,400.00	
642S		3,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$12,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 100,000.00	\$100,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$ 120.00	\$8,400.00	70 CD/Block

824S		10	EA	Traffic Signs	\$ 400.00	\$4,000.00	
827S		4	EA	Bicycle Lane Signage	\$ 400.00	\$1,600.00	
829S		800	LF	Bicycle Lane Markings	\$ 400.00	\$320,000.00	
871S-A4W	3360	4,500	LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mills in Thickness, White in Color	\$ 3.00	\$13,500.00	restriping parking
871S-A24W			LF	Reflectorized Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mills in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W			EA	Reflectorized Type 1 Pavement Marking, Symbol, 100 Mills in Thickness, White in Color	\$ 400.00	\$0.00	
874S-A		4,500	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$54,000.00	
1301S-B	277.7777778	300	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$6,300.00	10' wide from trail to building entrance
16550S			EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$0.00	
			EA	Light Pole and LED Light	\$ 3,700.00	\$0.00	
			EA	Electrical Panel Enclosure	\$ 21,000.00	\$0.00	
			EA	Electrical Pull Box	\$ 1,200.00	\$0.00	
			LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$0.00	
					SUBTOTAL	\$2,092,142.00	
					CONTINGENCY	\$523,035.50	
					TOTAL	\$2,615,177.50	

Aquatic Master Plan

Parque Zaragoza

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		200	LF	Remove P.C. Concrete Curb	\$ 20.00	\$4,000.00	ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	3250	3300	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$66,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	740.7407407	750	CY	Excavation, Unclassified	\$ 52.00	\$39,000.00	850sf + 14000sf = 14850sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1666.666667	1,700	SY	Sub-Grade Preparation	\$ 9.00	\$15,300.00	14850sf
203S-A8		1,700	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$26,010.00	
210S-A8	370	370	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$15,540.00	14850sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		100	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,700.00	850 sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 61,500.00	\$61,500.00	\$3/sf x 20500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 88,150.00	\$88,150.00	\$4.30/sf x 20500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		200	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$3,600.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	13950	14,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$168,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		3	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$5,400.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		1	EA	Streetscape Bicycle Rack	\$ 800.00	\$800.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		1	EA	Parking Lot Bumper Curbs	\$	120.00	\$120.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Francisco
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Francisco
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Francisco
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,380	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,760.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		300	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$57,900.00	main service
510-ASW18		300	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$40,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8	350	350	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$43,750.00	WW service to main on Francisco
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Francisco
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Webberville
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant (see Deatil No. 511S-17)	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	93	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		1,700	SY	Native Seeding for Erosion Control	\$ 7.00	\$11,900.00	
610S-A		500	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$2,000.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S	1410	2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 71,000.00	\$71,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		1	EA	Bicycle Lane Signage	\$ 400.00	\$400.00	
829S		200	LF	Bicycle Lane Markings	\$ 8.00	\$1,600.00	
871S-A4W	96	100	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$300.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A		100	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$1,200.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		2	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$3,200.00	
		2	EA	Light Pole and LED Light	\$ 3,700.00	\$7,400.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		2	EA	Electrical Pull Box	\$ 1,200.00	\$2,400.00	
		200	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$24,600.00	100' per light pole
					SUBTOTAL	\$1,477,700.00	
					CONTINGENCY	\$369,425.00	
					TOTAL	\$1,847,125.00	

Aquatic Master Plan

Patterson

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		120	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,400.00	curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	2700	2700	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$54,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	1120.987654	990	CY	Excavation, Unclassified	\$ 52.00	\$51,480.00	20000sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	2522.222222	2,230	SY	Sub-Grade Preparation	\$ 9.00	\$20,070.00	20000sf
203S-A8		2,230	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$34,119.00	
210S-A8		500	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$21,000.00	20000sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 79,500.00	\$79,500.00	\$3/sf x 26500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 113,950.00	\$113,950.00	\$4.30/sf x 26500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$0.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	19850	20,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$240,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		6	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$10,800.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		1	EA	Streetscape Bicycle Rack	\$ 800.00	\$800.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		1	EA	Parking Lot Bumper Curbs	\$	120.00	\$120.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Wilshire
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Wilshire
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Wilshire
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		2,230	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$4,460.00	
510-AW2C		150	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$13,650.00	irrigation service
510-AW-4-350	200	200	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$28,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	650	700	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$135,100.00	main service
510-ASW18		500	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$68,000.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		400	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$50,000.00	WW service to main on Wilshire
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	Irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Wilshire
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Schieffer
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0.8	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	2.6	3	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$6,900.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Couble Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	132.3333333	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		2,700	SY	Native Seeding for Erosion Control	\$ 7.00	\$18,900.00	
610S-A		1,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$4,000.00	
610S-R		2	EA	Removal of Existing Trees	\$ 570.00	\$1,140.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		1,500	LF	Silt Fence for Erosion Control	\$ 4.00	\$6,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 85,000.00	\$85,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		3	EA	Bicycle Lane Signage	\$ 400.00	\$1,200.00	
829S		1,500	LF	Bicycle Lane Markings	\$ 8.00	\$12,000.00	
871S-A4W	414	420	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$1,260.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A		50	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$600.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		1	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$1,600.00	
		1	EA	Light Pole and LED Light	\$ 3,700.00	\$3,700.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		1	EA	Electrical Pull Box	\$ 1,200.00	\$1,200.00	
		100	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$12,300.00	100' per light pole
SUBTOTAL						\$1,769,729.00	
CONTINGENCY						\$442,432.25	
TOTAL						\$2,212,161.25	

Aquatic Master Plan

Ramsey

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity	Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A			100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	curb ramp reconstruction
104S-B				SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	5625		5650	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$113,000.00	
SP104S				SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB				EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
				CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
				LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
				LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
				EA	Demolition, Light Pole	\$ 600.00	\$0.00	
				LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
				CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
				CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
				TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	641.9753086		650	CY	Excavation, Unclassified	\$ 52.00	\$33,800.00	13000sf x 16"
120S-A				CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A				CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T				CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A				CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1444.444444		1,500	SY	Sub-Grade Preparation	\$ 9.00	\$13,500.00	13000sf
203S-A8			1,500	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$22,950.00	
210S-A8	321		330	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$13,860.00	13000sf x 8"
340S-B-C3				SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2				SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5				SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A				SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY				CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D			1	EA	Concrete Structure, Storm Water Detention	\$ 58,500.00	\$58,500.00	\$3/sf x 19500sf IC
403S-EA-WQ			1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 83,850.00	\$83,850.00	\$4.30/sf x 19500sf IC
414S-C				SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A			100	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$1,800.00	
430S-E				LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	12825		13,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$156,000.00	
432S-6				SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1			5	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$9,000.00	
432S-SAC-1				EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1				EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2				EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3				EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4				EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C				EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1			100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K				EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C				SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Rosedale
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Rosedale
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Rosedale
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,480	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,960.00	
510-AW2C		50	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$4,550.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		300	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$57,900.00	main service
510-ASW18		400	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$54,400.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		400	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$50,000.00	WW service to main on Rosedale
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Rosedale
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W mai on 42nd
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3		2	EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$2,400.00	for fire hydrants
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	85.5	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		400	SY	Native Seeding for Erosion Control	\$ 7.00	\$2,800.00	
610S-A			LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$0.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 71,000.00	\$71,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S			EA	Bicycle Lane Signage	\$ 400.00	\$0.00	
829S			LF	Bicycle Lane Markings	\$ 8.00	\$0.00	
871S-A4W		100	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$300.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		1	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$1,600.00	
		1	EA	Light Pole and LED Light	\$ 3,700.00	\$3,700.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		1	EA	Electrical Pull Box	\$ 1,200.00	\$1,200.00	
		100	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$12,300.00	100' per light pole
					SUBTOTAL	\$1,482,850.00	
					COTINGENCY	\$370,712.50	
					TOTAL	\$1,853,562.50	

Aquatic Master Plan

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**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	400	400	LF	Remove P.C. Concrete Curb	\$ 20.00	\$8,000.00	ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	6150	6200	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$124,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	1283.950617	1,310	CY	Excavation, Unclassified	\$ 52.00	\$68,120.00	26000sf + 400sf = 26400sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	2888.888889	2,940	SY	Sub-Grade Preparation	\$ 9.00	\$26,460.00	26400sf
203S-A8		2,940	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$44,982.00	
210S-A8	641.9753086	660	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$27,720.00	26400sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		50	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$850.00	400sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 97,500.00	\$97,500.00	\$3/sf x 32500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 139,750.00	\$139,750.00	\$4.30/sf x 32500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		400	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$7,200.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	26000	26,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$312,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1	3	4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Pecos
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Pecos
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Pecos
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,580	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$3,160.00	
510-AW2C		80	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$7,280.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		400	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$77,200.00	main service
510-ASW18	300	400	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$54,400.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		370	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$46,250.00	WW service to main on Pecos
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Pecos
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Pecos
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant (see Deatil No. 511S-17)	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	173.3333333	35	EA	Trees, 20 Gal	\$ 600.00	\$21,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		2,600	SY	Native Seeding for Erosion Control	\$ 7.00	\$18,200.00	
610S-A		2,000	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$8,000.00	
610S-R		4	EA	Removal of Existing Trees	\$ 570.00	\$2,280.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,500	LF	Silt Fence for Erosion Control	\$ 4.00	\$10,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 91,000.00	\$91,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		3	EA	Bicycle Lane Signage	\$ 400.00	\$1,200.00	
829S		2,600	LF	Bicycle Lane Markings	\$ 8.00	\$20,800.00	
871S-A4W		200	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$600.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A		200	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$2,400.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		1	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$1,600.00	
		1	EA	Light Pole and LED Light	\$ 3,700.00	\$3,700.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		1	EA	Electrical Pull Box	\$ 1,200.00	\$1,200.00	
		100	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$12,300.00	100' per light pole
					SUBTOTAL	\$1,909,632.00	
					CONTINGENCY	\$477,408.00	
					TOTAL	\$2,387,040.00	

Aquatic Master Plan

Rosewood

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A	190	200	LF	Remove P.C. Concrete Curb	\$ 20.00	\$4,000.00	ADA parking and curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	2100	2100	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$42,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	493.8271605	380	CY	Excavation, Unclassified	\$ 52.00	\$19,760.00	7500sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1111.111111	840	SY	Sub-Grade Preparation	\$ 9.00	\$7,560.00	7500sf
203S-A8		840	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$12,852.00	
210S-A8	246.9135802	190	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$7,980.00	7500sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 22,500.00	\$22,500.00	\$3/sf x 7500sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 32,250.00	\$32,250.00	\$4.30/sf x 7500sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		200	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$3,600.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	7420	7,500	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$90,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3		2	EA	Streetscape Bicycle Rack	\$ 800.00	\$1,600.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		3	EA	Parking Lot Bumper Curbs	\$	120.00	\$360.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Chestnut
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Chestnut
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Chestnut
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,940	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$3,880.00	
510-AW2C		40	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$3,640.00	irrigation service
510-AW-4-350		50	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$7,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		340	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$65,620.00	main service
510-ASW18		800	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$108,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		430	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$53,750.00	WW service to main on Chestnut
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Chestnut
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Rosewood
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	49.46666667	50	EA	Trees, 20 Gal	\$ 600.00	\$30,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		1,200	SY	Native Seeding for Erosion Control	\$ 7.00	\$8,400.00	
610S-A		250	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$1,000.00	
610S-R		10	EA	Removal of Existing Trees	\$ 570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 67,000.00	\$67,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		2	EA	Bicycle Lane Signage	\$ 400.00	\$800.00	
829S		200	LF	Bicycle Lane Markings	\$ 8.00	\$1,600.00	
871S-A4W		80	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$240.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		3	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$1,200.00	
874S-A		80	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$960.00	
1301S-B	3000	3,000	SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$63,000.00	10' wide connect to surrounding streets
16550S		3	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$4,800.00	
		3	EA	Light Pole and LED Light	\$ 3,700.00	\$11,100.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		3	EA	Electrical Pull Box	\$ 1,200.00	\$3,600.00	
		300	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$36,900.00	100' per light pole
					SUBTOTAL	\$1,400,932.00	
					CONTINGENCY	\$350,233.00	
					TOTAL	\$1,751,165.00	

Aquatic Master Plan

Springwood

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		100	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,000.00	parking expansion + curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C		350	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$7,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	633.0864198	820	CY	Excavation, Unclassified	\$ 52.00	\$42,640.00	12420sf + 4000sf = 16420sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1424.444444	1,830	SY	Sub-Grade Preparation	\$ 9.00	\$16,470.00	16420sf
203S-A8		1,830	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$27,999.00	
210S-A8	316.5432099	410	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$17,220.00	16420sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		1,380	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$23,460.00	12420sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 12,000.00	\$12,000.00	\$3/sf x 4000sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 17,200.00	\$17,200.00	\$4.20/sf x 4000sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		550	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$9,900.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	3900	4,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$48,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		150	LF	Pedestrian ADA Railing	\$ 102.00	\$15,300.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		2	EA	Parking Lot Bumper Curbs	\$	120.00	\$240.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Lyndhurst
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on Lyndhurst
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Lyndhurst
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		2	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$10,800.00	at ADA parking and parking expansion
509S-1		980	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$1,960.00	
510-AW2C		100	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$9,100.00	irrigation service
510-AW-4-350		100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		100	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$19,300.00	main service
510-ASW18		300	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$40,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		100	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$12,500.00	WW service to main on Lyndhurst
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on Lyndhurst
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on Lyndhurst
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		3	TON	Ductile Iron Fittings	\$ 11,500.00	\$34,500.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	26	26	EA	Trees, 20 Gal	\$ 600.00	\$15,600.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C	1424.444444	1,500	SY	Native Seeding for Erosion Control	\$ 7.00	\$10,500.00	
610S-A		300	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$1,200.00	
610S-R		1	EA	Removal of Existing Trees	\$ 570.00	\$570.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		150	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$1,350.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 59,000.00	\$59,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		160	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$96,000.00	160 CD/Block
SP803S-PS		70	CD	Portable Changeable Message Signs	\$ 120.00	\$8,400.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		2	EA	Bicycle Lane Signage	\$ 400.00	\$800.00	
829S	430	450	LF	Bicycle Lane Markings	\$ 8.00	\$3,600.00	
871S-A4W		230	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$690.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		2	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$800.00	
874S-A		510	LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$6,120.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		4	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$6,400.00	
		4	EA	Light Pole and LED Light	\$ 3,700.00	\$14,800.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		4	EA	Electrical Pull Box	\$ 1,200.00	\$4,800.00	
		400	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$49,200.00	100' per light pole
					SUBTOTAL	\$1,241,599.00	
					CONTINGENCY	\$310,399.75	
					TOTAL	\$1,551,998.75	

Aquatic Master Plan

Walnut Creek

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		220	LF	Remove P.C. Concrete Curb	\$ 20.00	\$4,400.00	curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	2500	2,500	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$50,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	740.7407407	300	CY	Excavation, Unclassified	\$ 52.00	\$15,600.00	6000sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	1666.666667	670	SY	Sub-Grade Preparation	\$ 9.00	\$6,030.00	6000sf
203S-A8		670	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$10,251.00	
210S-A8	370.3703704	150	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$6,300.00	6000sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2			SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$0.00	
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 56,400.00	\$56,400.00	\$3/sf x 18800sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 80,840.00	\$80,840.00	\$4.30/sf x 18800sd IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		220	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$3,960.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	6000	6,000	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$72,000.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		11	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$19,800.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		100	LF	Pedestrian ADA Railing	\$ 102.00	\$10,200.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S			EA	Parking Lot Bumper Curbs	\$	120.00	\$0.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on Wells Branch
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$0.00	
506-MWW60		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$8,000.00	connect to WW main on Wells Branch
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on Wells Branch
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		3,220	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$6,440.00	
510-AW2C	120	120	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$10,920.00	irrigation service
510-AW-4-350	210	210	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$29,400.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350	1750	1,750	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$337,750.00	main service
510-ASW18	530	600	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$81,600.00	improve drainage around pool site
510-ASW24		300	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$47,100.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	

510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	
510-AWW8	160	160	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	125.00	\$20,000.00	WW service to main on Wells Branch
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$	4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$	6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$	55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$	321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$	2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$	4,600.00	\$4,600.00	connect to WW main on Wells Branch
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$	3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$	3,300.00	\$3,300.00	connect to W main on Lamar
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$	4,600.00	\$0.00	
510-KW	4.9	5	TON	Ductile Iron Fittings	\$	11,500.00	\$57,500.00	5 lb/ft
511S-A2	0.48	2	EA	Valves, Gate Type, 2" Diameter	\$	1,000.00	\$2,000.00	1 each/250 ft
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$	1,200.00	\$0.00	
511S-A4	0.84	2	EA	Valves, Gate Type, 4" Diameter	\$	1,500.00	\$3,000.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$	1,900.00	\$3,800.00	for fire hydrants
511S-A8	7	7	EA	Valves, Gate Type, 8" Diameter	\$	2,300.00	\$16,100.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant	\$	5,200.00	\$10,400.00	
511S-C2	1	1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$	4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$	16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$	50.00	\$0.00	
591S-B		8	SY	Dry-Riprap	\$	140.00	\$1,120.00	
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$	320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$	7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$	6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$	23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$	24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$	23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	40	40	EA	Trees, 20 Gal	\$	600.00	\$24,000.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$	50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$	10,000.00	\$10,000.00	
609S-C		2,000	SY	Native Seeding for Erosion Control	\$	7.00	\$14,000.00	
610S-A		1,500	LF	Tree Protective Fencing Type A Chain Link Fence	\$	4.00	\$6,000.00	
610S-R		10	EA	Removal of Existing Trees	\$	570.00	\$5,700.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$	120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$	9.00	\$900.00	Triangular dike on pavement
639S		80	LF	Rock Berm	\$	39.00	\$3,120.00	
640S			SF	Mortared Rock Wall	\$	50.00	\$0.00	
641S			EA	Stabilized Construction Entrance	\$	1,700.00	\$0.00	
642S		2,700	LF	Silt Fence for Erosion Control	\$	4.00	\$10,800.00	
660S			CY	Bio-Filtration Media	\$	114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$	88,000.00	\$88,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$	20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$	1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$	2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$	700.00	\$700.00	
803S-SF			LF	Safety Fence	\$	3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$	400.00	\$0.00	

Aquatic Master Plan

West Austin

**Doucet + Chan, a Division of Doucet & Associates, Inc.
Texas Registration No. 3937**

Item No.	Quantity Calculation	Quantity	Unit	Item Description	Unit Price	Amount	Notes
104S-A		120	LF	Remove P.C. Concrete Curb	\$ 20.00	\$2,400.00	ADA space + curb ramp reconstruction
104S-B			SF	Remove P.C. Concrete Slab	\$ 20.00	\$0.00	
104S-C	975	1000	SF	Remove P.C. Concrete Sidewalks & Driveways	\$ 20.00	\$20,000.00	
SP104S			SF	Demolition, Buildings	\$ 10.00	\$0.00	
SP104S-UB			EA	Demolition, Utility Boxes	\$ 2,700.00	\$0.00	
			CF	Demolition, Masonry Walls, Stone with Mortar	\$ 8.00	\$0.00	12" thick
			LF	Demolition, Water/Wastewater Pipe, 6 Inch to 12 Inch Dia.	\$ 29.00	\$0.00	
			LF	Demolition, Electric Conduits	\$ 7.00	\$0.00	
			EA	Demolition, Light Pole	\$ 600.00	\$0.00	
			LF	Demolition, Chain Link Fence	\$ 7.00	\$0.00	
			CY	Demolition Disposal, Loading and 5 Mile Haul to Dump (Non-Hazardous)	\$ 22.00	\$0.00	
			CY-Mi	Demolition, Disposal Haul, Per Mile over 5 Miles	\$ 2.00	\$0.00	
			TON	Demolition, Dump Charge	\$ 110.00	\$0.00	
111S-A	311.1111111	350	CY	Excavation, Unclassified	\$ 52.00	\$18,200.00	6300sf + 600sf = 6900sf x 16"
120S-A			CY	Channel Excavation	\$ 90.00	\$0.00	
130S-A			CY	Class A (Select Borrow)	\$ 59.00	\$0.00	
130S-T			CY	Class C (Topsoil)	\$ 44.00	\$0.00	
132S-A			CY	Embankment (Fill)	\$ 29.00	\$0.00	
201S	700	770	SY	Sub-Grade Preparation	\$ 9.00	\$6,930.00	6900sf
203S-A8		770	SY	Lime Treated Subgrade, 8 Inch Thickness	\$ 15.30	\$11,781.00	
210S-A8	155.5555556	180	CY	Flexible Base, 8 Inch Thickness	\$ 42.00	\$7,560.00	6900sf x 8"
340S-B-C3			SY	Hot Mix Asphaltic Concrete Pavement, 3 Inches, Type C	\$ 22.00	\$0.00	
340S-B-C2		70	SY	Hot Mix Asphaltic Concrete Pavement, 2 Inches, Type C	\$ 17.00	\$1,190.00	600sf
340S-B-C1.5			SY	Hot Mix Asphaltic Concrete Pavement, 1-1/2 Inches, Type C	\$ 15.00	\$0.00	
360S-A			SY	7 Inch Concrete Pavement	\$ 108.00	\$0.00	
403S-CY			CY	Concrete Structure, _____	\$ 720.00	\$0.00	
403S-EA-D		1	EA	Concrete Structure, Storm Water Detention	\$ 21,900.00	\$21,900.00	\$3/sf x 7300sf IC
403S-EA-WQ		1	EA	Concrete Structure, Storm Water Quality Treatment	\$ 31,390.00	\$31,390.00	\$4.30/sf x 7300sf IC
414S-C			SF	Cast in Place Portland Cement Concrete Retaining Wall, Including Reinforcement	\$ 61.00	\$0.00	
430S-A		120	LF	P.C. Concrete Curb and Gutter (Excavation)	\$ 18.00	\$2,160.00	
430S-E			LF	P.C. Concrete Laydown Curb (Excavation)	\$ 22.00	\$0.00	
432S-5	6300	6,300	SF	New P.C. Concrete Sidewalks, 5 Inch thickness	\$ 12.00	\$75,600.00	
432S-6			SF	New P.C. Concrete Sidewalks, 6 Inch thickness	\$ 14.00	\$0.00	
432S-RP-1		4	EA	P.C. Sidewalk Curb Ramp with Pavers (Type I)	\$ 1,800.00	\$7,200.00	
432S-SAC-1			EA	Streetscape Bench (5ft with Back)	\$ 3,800.00	\$0.00	
432S-SAC-1			EA	Streetscape Bench (5ft without Back)	\$ 2,300.00	\$0.00	
432S-SAC-2			EA	Streetscape Chair (2 ft)	\$ 2,300.00	\$0.00	
432S-SAC-3			EA	Streetscape Bicycle Rack	\$ 800.00	\$0.00	
432S-SAC-4			EA	Streetscape Trash Receptacle	\$ 2,900.00	\$0.00	
432S-SAC-7C			EA	Streetscape Tree Well & Grate	\$ 6,600.00	\$0.00	
432S-PRC-1		50	LF	Pedestrian ADA Railing	\$ 102.00	\$5,100.00	
SP432S-K			EA	Art Kiosks	\$ 25,000.00	\$0.00	
433S-C			SF	Type II P.C. Concrete Driveway	\$ 11.00	\$0.00	

435S			LF	P.C. Concrete Steps	\$	160.00	\$0.00	
439S		1	EA	Parking Lot Bumper Curbs	\$	120.00	\$120.00	
504S-3W			EA	Adjusting Water Valve Boxes to Grade	\$	950.00	\$0.00	
505S-B20			LF	Encasement Pipe, Split 20 Inch Dia., Type Steel, 0.375 Inch Minimum Thickness	\$	243.00	\$0.00	
506-ABSW			EA	Abandonment of Existing Manholes, Storm Water	\$	2,200.00	\$0.00	
506-ABWW			EA	Abandonment of Existing Manholes, Wastewater	\$	2,200.00	\$0.00	
506-ABE			EA	Abandonment of Existing Manholes, Electrical and Telecommunications	\$	2,200.00	\$0.00	
506-BSW4x4			EA	Box Manhole, 4ft x 4ft	\$	6,600.00	\$0.00	
506-CNSW		1	EA	Connection of Storm Water Pipe to Existing System	\$	2,300.00	\$2,300.00	
506-CNWW		1	EA	Connection of Wastewater Pipe to Existing System	\$	2,300.00	\$2,300.00	connect to WW main on W. 10th
506-EDMSSW48			LVF	Extra Depth Special Storm Water Manhole, 48 In. Dia.	\$	340.00	\$0.00	
506-MSW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 48 In. Dia.	\$	5,700.00	\$5,700.00	connect to SD system
506-MSW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 60 In. Dia.	\$	7,400.00	\$0.00	
506-MWW48		1	EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 4 Ft. Dia.	\$	6,300.00	\$6,300.00	connect to WW main on W. 10th
506-MWW60			EA	Standard Pre-Cast Manhole w/ Pre-Cast Base, 5 Ft. Dia.	\$	8,000.00	\$0.00	
SP506-M		1	EA	By-Pass Pumping at Each Connection to Existing Manhole	\$	5,200.00	\$5,200.00	at connection to WW main on W. 10th
508S-H18			EA	Headwalls for 18" Pipe	\$	3,000.00	\$0.00	
508S-H24		1	EA	Headwalls for 24" Pipe	\$	3,200.00	\$3,200.00	SD outfall
508S-H48			EA	Headwalls for 48" Pipe	\$	6,400.00	\$0.00	
508S-IG		3	EA	Inlet, Grate (Area Inlet)	\$	5,600.00	\$16,800.00	improve drainage around pool site
508S-I10S		1	EA	Inlet, Standard 10 Foot	\$	5,400.00	\$5,400.00	at ADA parking
509S-1		1,180	LF	Trench Excavation Safety Protective Systems (all depths)	\$	2.00	\$2,360.00	
510-AW2C		100	LF	Pipe, 2" Dia. Copper (all depths), including Excavation and Backfill	\$	91.00	\$9,100.00	irrigation service
510-AW-4-350		100	LF	Pipe, 4" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	140.00	\$14,000.00	domestic service
510-AW-6-350		80	LF	Pipe, 6" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	159.00	\$12,720.00	fire hydrant leads
510-AW-8-350		200	LF	Pipe, 8" Dia. Class 350 Ductile Iron (all depths), including Excavation and Backfill	\$	193.00	\$38,600.00	main service
510-ASW18	250	300	LF	Pipe, 18 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	136.00	\$40,800.00	improve drainage around pool site
510-ASW24		200	LF	Pipe, 24 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	157.00	\$31,400.00	to SD outfall
510-ASW30			LF	Pipe, 30 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	249.00	\$0.00	
510-ASW36			LF	Pipe, 36 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	311.00	\$0.00	
510-ASW48			LF	Pipe, 48 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	351.00	\$0.00	
510-ASW54			LF	Pipe, 54 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	368.00	\$0.00	
510-ASW66			LF	Pipe, 66 - inch R.C.P. Storm Drain (all depths), including Excavation and Backfill	\$	403.00	\$0.00	
510-AWW6			LF	Pipe, 6" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$	114.00	\$0.00	

510-AWW8		200	LF	Pipe, 8" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 125.00	\$25,000.00	WW service to main on W. 10th
510-AWW12			LF	Pipe, 12" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 159.00	\$0.00	
510-AWW21			LF	Pipe, 21" Dia. PVC SDR-26 Type (all depths), including Excavation and Backfill	\$ 299.00	\$0.00	
510-BW8x2		1	EA	Connecting New 8" Water Service to 2" Private Service	\$ 4,600.00	\$4,600.00	irrigation service connection
510-BW8x4		1	EA	Connecting New 8" Water Service to 4" Private Service	\$ 6,200.00	\$6,200.00	domestic service connection
SP510-BW-M2		1	EA	New Water Meter, 2 Inch Meter and W Capital Recover Fee	\$ 55,000.00	\$55,000.00	irrigation meter/tap fee
SP510-BW-M4		1	EA	New Water Meter, 4 Inch Meter and W/WW Capital Recover Fee	\$ 321,000.00	\$321,000.00	domestic meter/tap fee
SP510-BW-RM2			EA	Relocate Existing Water Meter, 2 Inch Tap Fee	\$ 2,000.00	\$0.00	
510-BWW8x6		1	EA	Connecting New 8" Wastewater Service to Existing Private Service	\$ 4,600.00	\$4,600.00	connect to WW main on W. 10th
510-JW6X6			EA	Wet Connections, 6" Dia. x 6" Dia.	\$ 3,100.00	\$0.00	
510-JW8X8		1	EA	Wet Connections, 8" Dia. x 8" Dia.	\$ 3,300.00	\$3,300.00	connect to W main on W. 10th
510-JW16X16			EA	Wet Connections, 16" Dia. x 16" Dia.	\$ 4,600.00	\$0.00	
510-KW		2	TON	Ductile Iron Fittings	\$ 11,500.00	\$23,000.00	5 lb/ft
511S-A2		1	EA	Valves, Gate Type, 2" Diameter	\$ 1,000.00	\$1,000.00	
511S-A3			EA	Valves, Gate Type, 3" Diameter	\$ 1,200.00	\$0.00	
511S-A4	0	1	EA	Valves, Gate Type, 4" Diameter	\$ 1,500.00	\$1,500.00	1 each/250 ft
511S-A6		2	EA	Valves, Gate Type, 6" Diameter	\$ 1,900.00	\$3,800.00	for fire hydrants
511S-A8	0	1	EA	Valves, Gate Type, 8" Diameter	\$ 2,300.00	\$2,300.00	1 each/250 ft
511S-B		2	EA	Fire Hydrant (see Deatil No. 511S-17)	\$ 5,200.00	\$10,400.00	
511S-C2		1	EA	Pressure or Flow Control Valve Assemblies (2 Inch Backflow Preventer)	\$ 4,000.00	\$4,000.00	for irrigation service
511S-C8	1	1	EA	Pressure or Flow Control Valve Assemblies (8 Inch Double Check Valve Backflow Preventer)	\$ 16,000.00	\$16,000.00	For fire line
551			LF	Pipe Underdrains (for Tree Wells)	\$ 50.00	\$0.00	
591S-B		4	SY	Dry-Riprap	\$ 140.00	\$560.00	SD outfall
594S-C			CY	Revet Mattresses, Twisted Woven Wire	\$ 320.00	\$0.00	
602S-D			SY	Grass Sodding, General	\$ 7.00	\$0.00	
604S-A			SY	Non-Native Seeding for Erosion Control Method	\$ 6.00	\$0.00	
604S-E			SY	Mulch, Hardwood	\$ 23.00	\$0.00	
605S-A		300	SY	Soil Retention Blanket	\$ 24.00	\$7,200.00	
608S-1			EA	Plantings, Type BMP Native Grasses, Sedges, Woody Shrubs	\$ 23.00	\$0.00	1 ft spacing in Rain Garden
608S-1	42	42	EA	Trees, 20 Gal	\$ 600.00	\$25,200.00	30ft apart along sidewalk
608S-1			EA	Plants, 5 Gal	\$ 50.00	\$0.00	
608S-2		1	LS	Irrigation System	\$ 10,000.00	\$10,000.00	
609S-C		700	SY	Native Seeding for Erosion Control	\$ 7.00	\$4,900.00	
610S-A		200	LF	Tree Protective Fencing Type A Chain Link Fence	\$ 4.00	\$800.00	
610S-R		5	EA	Removal of Existing Trees	\$ 570.00	\$2,850.00	
SP628S-C		2	EA	Filter Curb Inlet Protection	\$ 120.00	\$240.00	
628S-B		100	LF	Sediment Containment Dikes with Filter Fabric	\$ 9.00	\$900.00	Triangular dike on pavement
639S		40	LF	Rock Berm	\$ 39.00	\$1,560.00	
640S			SF	Mortared Rock Wall	\$ 50.00	\$0.00	
641S		1	EA	Stabilized Construction Entrance	\$ 1,700.00	\$1,700.00	
642S		2,000	LF	Silt Fence for Erosion Control	\$ 4.00	\$8,000.00	
660S			CY	Bio-Filtration Media	\$ 114.00	\$0.00	
700S-TM		1	LS	Total Mobilization Payment	\$ 53,000.00	\$53,000.00	5% of all costs excluding Mob cost
701S-A6			LF	Chain Link Fence, 6-Ft	\$ 20.00	\$0.00	
701S-BS			EA	Chain Link Pedestrian Single Swing Gate (6 Ft x 4 Ft)	\$ 1,000.00	\$0.00	
701S-CD			EA	Chain Link Vehicular Double Swing Gate (6 Ft x 20 Ft)	\$ 2,300.00	\$0.00	
802S-BBond		1	EA	Bond Project Sign	\$ 700.00	\$700.00	
803S-SF			LF	Safety Fence	\$ 3.00	\$0.00	
SP803S-BAS			EA	Project Sign for Access	\$ 400.00	\$0.00	
SP803S-CD		80	CD	Barricades, Signs, and Traffic Handling.	\$ 600.00	\$48,000.00	160 CD/Block
SP803S-PS		35	CD	Portable Changeable Message Signs	\$ 120.00	\$4,200.00	70 CD/Block
824S		4	EA	Traffic Signs	\$ 400.00	\$1,600.00	

827S		3	EA	Bicycle Lane Signage	\$ 400.00	\$1,200.00	
829S		1,000	LF	Bicycle Lane Markings	\$ 8.00	\$8,000.00	
871S-A4W		50	LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 4 Inches in Width, 100 Mils in Thickness, White in Color	\$ 3.00	\$150.00	
871S-A24W			LF	ReflectORIZED Type 1 Thermoplastic Pavement Markings, 24 Inches in Width, 100 Mils in Thickness, White in Color	\$ 16.00	\$0.00	
871S-D-SYMBOL-W		1	EA	ReflectORIZED Type 1 Pavement Marking, Symbol, 100 Mils in Thickness, White in Color	\$ 400.00	\$400.00	
874S-A			LF	Eliminating Existing Pavement Markings, 4 Inches to 12 Inches in Width	\$ 12.00	\$0.00	
1301S-B			SY	Granite Gravel Hike & Bike Trail	\$ 21.00	\$0.00	10' wide connect to surrounding streets
16550S		1	EA	Street Light Standard Foundation, Including Pole Base and Conduit Stub Up	\$ 1,600.00	\$1,600.00	
		1	EA	Light Pole and LED Light	\$ 3,700.00	\$3,700.00	
		1	EA	Electrical Panel Enclosure	\$ 21,000.00	\$21,000.00	
		1	EA	Electrical Pull Box	\$ 1,200.00	\$1,200.00	
		100	LF	Electrical Trenching, Conduits, Conductors for Lighting	\$ 123.00	\$12,300.00	100' per light pole
					SUBTOTAL	\$1,110,371.00	
					CONTINGENCY	\$277,592.75	
					TOTAL	\$1,387,963.75	