

Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 1

Project Name: Grade Control Main Stem, Waverly Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	0	\$ 100	\$ -
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 27,000
Contingency = 15%				\$ 4,100
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 31,100

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	0	\$ 100	\$ -
Pile Grade Control	SF	960	\$ 40	\$ 38,400
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,900	\$ -
Subtotal =				\$ 38,400
Contingency = 15%				\$ 5,800
TOTAL OPINION OF CONSTRUCTION COST =				\$ 44,200

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 94,900
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 2

Project Name: Grade Control Main Stem, North 14th Street Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 31,000
Contingency = 15%				\$ 4,700
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 35,700

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	1,248	\$ 40	\$ 49,900
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 2,500	\$ -
Subtotal =				\$ 49,900
Contingency = 15%				\$ 7,500
TOTAL OPINION OF CONSTRUCTION COST =				\$ 57,400

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 112,700
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 3

Project Name: Grade Control Main Stem, Mill Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	0	\$ 100	\$ -
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 27,000
Contingency = 15%				\$ 4,100
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 31,100

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	864	\$ 40	\$ 34,600
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,700	\$ -
Subtotal =				\$ 34,600
Contingency = 15%				\$ 5,200
TOTAL OPINION OF CONSTRUCTION COST =				\$ 39,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 90,500
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 4

Project Name: Grade Control Main Stem, N 1st Street Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 31,000
Contingency = 15%				\$ 4,700
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 35,700

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	1,168	\$ 40	\$ 46,700
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 2,300	\$ -
Subtotal =				\$ 46,700
Contingency = 15%				\$ 7,000
TOTAL OPINION OF CONSTRUCTION COST =				\$ 53,700

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 109,000
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 5

Project Name: Grade Control Main Stem, W Raymond Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	160	\$ 20	\$ 3,200
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	4	\$ 100	\$ 400
		0	\$ -	\$ -
Subtotal =				\$ 6,100
Contingency = 15%				\$ 900
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 7,000

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 31,000
Contingency = 15%				\$ 4,700
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 35,700

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY		\$ 100	\$ -
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	1,248	\$ 40	\$ 49,900
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 2,500	\$ -
Subtotal =				\$ 49,900
Contingency = 15%				\$ 7,500
TOTAL OPINION OF CONSTRUCTION COST =				\$ 57,400

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 114,800
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 6

Project Name: Grade Control Main Stem, NW 12th Street Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 31,000
Contingency = 15%				\$ 4,700
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 35,700

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	0	\$ 50	\$ -
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	768	\$ 40	\$ 30,700
Site Restoration	ACRE	0.00	\$ 30,000	\$ -
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	0	\$ 50	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,500	\$ -
Subtotal =				\$ 30,700
Contingency = 15%				\$ 4,600
TOTAL OPINION OF CONSTRUCTION COST =				\$ 35,300

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 90,600
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 7

Project Name: Grade Control Main Stem, W Branched Oak Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	0	\$ 100	\$ -
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 27,000
Contingency = 15%				\$ 4,100
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 31,100

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	100	\$ 50	\$ 5,000
Rock Grade Control	CY	100	\$ 100	\$ 10,000
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 600
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	33	\$ 50	\$ 1,700
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 900	\$ -
Subtotal =				\$ 17,300
Contingency = 15%				\$ 2,600
TOTAL OPINION OF CONSTRUCTION COST =				\$ 19,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 70,600
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 8

Project Name: Grade Control Main Stem, N 19th Street Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	80	\$ 100	\$ 8,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 35,000
Contingency = 15%				\$ 5,300
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 40,300

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	120	\$ 50	\$ 6,000
Rock Grade Control	CY	120	\$ 100	\$ 12,000
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 700
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	40	\$ 50	\$ 2,000
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,000	\$ -
Subtotal =				\$ 20,700
Contingency = 15%				\$ 3,100
TOTAL OPINION OF CONSTRUCTION COST =				\$ 23,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 83,700
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 9

Project Name: Grade Control Main Stem, W Rock Creek Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
			Subtotal =	\$ 12,800
			Contingency = 15%	\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
			Subtotal =	\$ 4,300
			Contingency = 15%	\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	80	\$ 100	\$ 8,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
			Subtotal =	\$ 35,000
			Contingency = 15%	\$ 5,300
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 40,300

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	90	\$ 50	\$ 4,500
Rock Grade Control	CY	90	\$ 100	\$ 9,000
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 600
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	30	\$ 50	\$ 1,500
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 800	\$ -
			Subtotal =	\$ 15,600
			Contingency = 15%	\$ 2,300
TOTAL OPINION OF CONSTRUCTION COST =				\$ 17,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 77,800
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 10

Project Name: Grade Control Main Stem, W Agnew Road Bridge



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	40	\$ 100	\$ 4,000
ROW	HOURS	0	\$ 100	\$ -
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	60	\$ 100	\$ 6,000
Develop Plans and Construction Documents	HOURS	120	\$ 75	\$ 9,000
Construction Support	HOURS	40	\$ 100	\$ 4,000
		0	\$ -	\$ -
Subtotal =				\$ 27,000
Contingency = 15%				\$ 4,100
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 31,100

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	90	\$ 50	\$ 4,500
Rock Grade Control	CY	90	\$ 100	\$ 9,000
Rock Stilling Basin	CY		\$ 100	\$ -
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 600
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	30	\$ 50	\$ 1,500
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 800	\$ -
Subtotal =				\$ 15,600
Contingency = 15%				\$ 2,300
TOTAL OPINION OF CONSTRUCTION COST =				\$ 17,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 68,600
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 11

Project Name: Stilling Basin at N 40th Street Culvert Outfall, Tributary 10



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.23	\$ 20,000	\$ 4,600
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.23	\$ 7,000	\$ 1,600
Subtotal =				\$ 6,600
Contingency = 15%				\$ 1,000
TOTAL OPINION OF SURVEYING COST =				\$ 7,600

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	140	\$ 50	\$ 7,000
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	140	\$ 100	\$ 14,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.03	\$ 30,000	\$ 900
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	47	\$ 50	\$ 2,300
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,200	\$ -
Subtotal =				\$ 24,200
Contingency = 15%				\$ 3,600
TOTAL OPINION OF CONSTRUCTION COST =				\$ 27,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 77,700
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 12

Project Name: Stilling Basin at N 40th Street Culvert Outfall, Tributary 110



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	100	\$ 50	\$ 5,000
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	100	\$ 100	\$ 10,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 600
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	33	\$ 50	\$ 1,700
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 900	\$ -
Subtotal =				\$ 17,300
Contingency = 15%				\$ 2,600
TOTAL OPINION OF CONSTRUCTION COST =				\$ 19,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 76,900
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 13

Project Name: Stilling Basin at N 40th Street Culvert Outfall, Tributary 220



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	50	\$ 50	\$ 2,500
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	50	\$ 100	\$ 5,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.01	\$ 30,000	\$ 300
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	17	\$ 50	\$ 800
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 400	\$ -
Subtotal =				\$ 8,600
Contingency = 15%				\$ 1,300
TOTAL OPINION OF CONSTRUCTION COST =				\$ 9,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 66,900
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 14

Project Name: Stilling Basin at Waverly Road Culvert Outfall, Tributary 35



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	90	\$ 50	\$ 4,500
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	90	\$ 100	\$ 9,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 600
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	30	\$ 50	\$ 1,500
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 800	\$ -
Subtotal =				\$ 15,600
Contingency = 15%				\$ 2,300
TOTAL OPINION OF CONSTRUCTION COST =				\$ 17,900

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 74,900
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 15

Project Name: Stilling Basin at N 1st Street Culvert Outfall, Tributary 30



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	140	\$ 50	\$ 7,000
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	140	\$ 100	\$ 14,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.03	\$ 30,000	\$ 900
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	47	\$ 50	\$ 2,300
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,200	\$ -
Subtotal =				\$ 24,200
Contingency = 15%				\$ 3,600
TOTAL OPINION OF CONSTRUCTION COST =				\$ 27,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 84,800
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 16

Project Name: Stilling Basin at Branched Oak Road Culvert Outfall, Tributary 45



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	190	\$ 50	\$ 9,500
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	190	\$ 100	\$ 19,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.04	\$ 30,000	\$ 1,200
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	63	\$ 50	\$ 3,200
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,600	\$ -
Subtotal =				\$ 32,900
Contingency = 15%				\$ 4,900
TOTAL OPINION OF CONSTRUCTION COST =				\$ 37,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 94,800
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 17

Project Name: Stilling Basin at W Davey Road Culvert Outfall, Tributary 1260



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	40	\$ 100	\$ 4,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 32,500
Contingency = 15%				\$ 4,900
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 37,400

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	280	\$ 50	\$ 14,000
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	280	\$ 100	\$ 28,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.06	\$ 30,000	\$ 1,700
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	93	\$ 50	\$ 4,700
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 2,400	\$ -
Subtotal =				\$ 48,400
Contingency = 15%				\$ 7,300
TOTAL OPINION OF CONSTRUCTION COST =				\$ 55,700

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 112,700
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Little Salt Creek Watershed Masterplan - Cost Opinion Worksheet

Project Number #: 18

Project Name: Stilling Basin at Davey Road Culvert Outfall, Tributary 260



SURVEYING

Description	Unit	Quantity	Unit Cost	Sub Total
Boundary and Topo Surveying	ACRE	0.46	\$ 20,000	\$ 9,200
Prepare Easement Plat and Scripts	ACRE	1	\$ 400	\$ 400
Construction Staking and As-Built Surveying	ACRE	0.46	\$ 7,000	\$ 3,200
Subtotal =				\$ 12,800
Contingency = 15%				\$ 1,900
TOTAL OPINION OF SURVEYING COST =				\$ 14,700

GEOTECHNICAL

Description	Unit	Quantity	Unit Cost	Sub Total
Field Borings	LF	80	\$ 20	\$ 1,600
Geotechnical Report	LUMP	1	\$ 2,500	\$ 2,500
Global Stability Analysis	EACH	2	\$ 100	\$ 200
		0	\$ -	\$ -
Subtotal =				\$ 4,300
Contingency = 15%				\$ 600
TOTAL OPINION OF GEOTECHNICAL COST =				\$ 4,900

ENGINEERING DESIGN AND CONSTRUCTION DOCUMENTS

Description	Unit	Quantity	Unit Cost	Sub Total
Preliminary Design	HOURS	60	\$ 100	\$ 6,000
ROW	HOURS	80	\$ 100	\$ 8,000
Permitting	HOURS	40	\$ 100	\$ 4,000
Final Design	HOURS	90	\$ 100	\$ 9,000
Develop Plans and Construction Documents	HOURS	100	\$ 75	\$ 7,500
Construction Support	HOURS	20	\$ 100	\$ 2,000
		0	\$ -	\$ -
Subtotal =				\$ 36,500
Contingency = 15%				\$ 5,500
TOTAL OPINION OF ENGINEERING AND CONSTRUCTION OBSERVATION COST =				\$ 42,000

CONSTRUCTION

Description	Unit	Quantity	Unit Cost	Sub Total
Excavation and Embankment in Place	CY	120	\$ 50	\$ 6,000
Rock Grade Control	CY	0	\$ 100	\$ -
Rock Stilling Basin	CY	120	\$ 100	\$ 12,000
Pile Grade Control	SF	0	\$ 40	\$ -
Site Restoration	ACRE	0.02	\$ 30,000	\$ 700
Removal of Existing Structures	LUMP	0	\$ 20,000	\$ -
New Bridge	SF	0	\$ 125	\$ -
New Culvert	LF	0	\$ 0.5	\$ -
Wetland Planting	ACRE	0	\$ 40,000	\$ -
Riparian Corridor Planting	LF	40	\$ 50	\$ 2,000
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
Mobilization and Bond	5%		\$ 1,000	\$ -
Subtotal =				\$ 20,700
Contingency = 15%				\$ 3,100
TOTAL OPINION OF CONSTRUCTION COST =				\$ 23,800

TOTAL SURVEYING, GEOTECHNICAL, ENGINEERING AND CONSTRUCTION COST OPINION =				\$ 85,400
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