

## 2019 Table of Probable Costs by Project (in order of priority)

### PHASE I

STREAM RESTORATION AND OUTFALL REPAIR					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Restoration Assessment (Funded by Gannon)	ALLOW	1	\$10,000.00	(\$10,000)	Initial assessment by engineering firm specializing in stream restoration to determine scope of restoration activities
Stream Restoration	LF	680	\$341.00	\$231,880	Restoration assessment will give a more accurate estimate of how much restoration will cost
Design & Engineering (Funded by Gannon)	Percent	20%		(\$48,376)	Expect to pay between 15-20% of projected project costs
Contingency (15%) (Partially Funded by Gannon)	Percent	15%		\$36,282 (\$3,644)	
<b>TOTAL</b>				<b>\$264,518</b>	
ENTRY PLAZA AND PATH FROM MCLENDON DRIVE					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
24" height stone wall at entrance	SF	160	\$111.00	\$17,760	Including excavation, concrete footing and stone 3' below grade. Price is exposed face area
Grading	ALLOW	1	\$20,000.00	\$20,000	
Concrete paved plaza	SF	190	\$15.00	\$2,850	
Remove vehicular guardrail	LF	30	\$10.00	\$300	To be coordinated with appropriate transportation authority
Vehicular guardrail flared terminal ends	EA	2	\$75.00	\$150	To be coordinated with appropriate transportation authority
ADA-accessible path	LF	420	\$30.75	\$12,915	Assume 5' width concrete sidewalk
ADA Railing	LF	33	\$99.00	\$3,267	Steel pipe railing, 3 rail, galvanized 1-1/4" dia.
Design & Engineering	Percent	20%		\$13,280	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$9,960	
<b>TOTAL</b>				<b>\$80,482</b>	
<b>PHASE I TOTAL</b>				<b>\$345,000</b>	

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### PHASE II

#### ENTRY PLAZA AND PATH FROM MCLENDON DRIVE

Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Trash receptacle	EA	1	\$1,415.00	\$1,415	Victor Stanley, black
Little Free Library (LFL)	EA	1	\$400.00	\$400	Includes installation cost and LFL registry fee
Park Sign	EA	1	\$3,620.00	\$3,620	Coordinate signage design with DRPCA
Bench	EA	2	\$1,861.00	\$3,722	Victor Stanley, black (mounted into concrete plaza)
<b>TOTAL</b>				<b>\$9,157</b>	

#### HABITAT RESTORATION (ONGOING)

Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Invasives Removal	AC	1.5	\$5,000.00	\$7,500	Volunteer labor can maintain invasive control, but initial effort is best done by professional. Important: chemical control is not desirable, prohibited in stream buffer
Mulch	ALLOW	1	\$1,500.00	\$1,500	Potential donation
Selective thinning of understory	ALLOW	1	\$3,000.00	\$3,000	Possible volunteer labor with arborist supervision
Nectar/fruit producing native plants	ALLOW	1	\$5,000.00	\$5,000	Plants selected to invite birds, small mammals, and insects
Design & Engineering	Percent	20%		\$3,400	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$2,550	
<b>TOTAL</b>				<b>\$22,950</b>	

#### BRIDGE AND ADA PARKING

Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Asphalt parking lot	SPACE	4	\$1,600.00	\$6,400	Includes striping/ADA signage
Grading/site prep	ALLOW	1	\$12,500.00	\$12,500	
Permatrak boardwalk	SF	612	\$60.00	\$36,720	Installation cost depends on site conditions/customizations

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Replace pedestrian bridge	LF	30	\$2,000.00	\$60,000	Prefab pedestrian bridge
Railing along edge of gathering area	LF	50	\$55.00	\$2,750	Timber hand railing
Split Rail Fence	LF	13	\$25.00	\$325	
Granite Curb	LF	60	\$36.00	\$2,160	6" curb around parking area
Culvert under parking lot	LF	66	\$20.00	\$1,320	Corrugated metal pipe under parking lot to convey drainage along Needham Road to stream
Streambank stabilization/drainage outfall	ALLOW	1	\$5,000.00	\$5,000	
Trash Receptacle	EA	1	\$1,415.00	\$1,415	Victor Stanley, black
Vehicle Bollards	EA	4	\$2,500.00	\$10,000	
Design & Engineering	Percent	20%		\$27,718	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$20,789	
<b>TOTAL</b>				<b>\$187,097</b>	

### CROSSWALK ON MCLENDON DRIVE

(To be coordinated with the appropriate transportation authority)

Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Thermoplastic striping for crosswalk	LF	132	\$2.44	\$322	
Crosswalk signage	EA	2	\$500.00	\$1,000	
ADA ramps	EA	2	\$2,500.00	\$5,000	
Design & Engineering	Percent	20%		\$1,264	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$948	
<b>TOTAL</b>				<b>\$8,535</b>	

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WOODLAND TRAILS AND LEARNING CIRCLE					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Trail construction	LF	720	\$6.75	\$4,860	Soft surface single-track compacted soft-surface trail
Grading	ALLOW	1	\$3,500.00	\$3,500	
Clearing and grubbing	AC	0.25	\$3,500.00	\$875	
ADA-compliant trail bed	SF	1000	\$2.00	\$2,000	ADA trail from parking area to first picnic table
ADA-compliant picnic area	EA	1	\$5,500.00	\$5,500	Includes stone aggregate pad to create level surface in timber frame with one waste receptacle and one accessible picnic table
Learning Circle Benches	EA	5	\$800.00	\$4,000	Constructed of wood or stone
Climbing log and tree stump seats	ALLOW	1	\$1,500.00	\$500	Possible labor cost of moving and cutting
Design & Engineering	Percent	20%		\$4,247	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$3,185	
<b>TOTAL</b>				<b>\$28,667</b>	
SECOND BRIDGE WITH STAIR					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
New pedestrian bridge	LF	30	\$2,000.00	\$60,000	Precast concrete piers. Cost includes engineering design, materials, delivery, and installation
Timber Stairs	ALLOW	1	\$5,000.00	\$5,000	6' w timber or natural stone steps, bridge to woodland trail
Steel Hand Railing	LF	35	\$99.00	\$3,465	
Design & Engineering	Percent	20%		\$13,693	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$10,270	
<b>TOTAL</b>				<b>\$92,428</b>	

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GUARDRAIL RELOCATION (To be coordinated with the appropriate transportation authority)					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Remove/reset vehicular guardrail	LF	120	\$32.00	\$3,840	
Vehicular guardrail flared terminal ends	EA	4	\$75.00	\$300	
Park Sign	EA	1	\$3,620.00	\$3,620	Coordinate signage design with DRPCA
Removable vehicle bollards	EA	2	\$2,500.00	\$5,000	Maintenance access
Design & Engineering	Percent	20%		\$2,552	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$1,914	
<b>TOTAL</b>				<b>\$17,226</b>	

PARKING IMPROVEMENT ON NEEDHAM DRIVE					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
On-street parallel parking spaces with permeable pavers	ALLOW	3	\$3,000.00	\$9,000	To infiltrate stormwater and reduce erosion
Vegetation Clean-Up/Invasives Removal	ALLOW	1	\$5,000.00	\$1,000	
Design & Engineering	Percent	20%		\$2,000	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%		\$1,500	
<b>TOTAL</b>				<b>\$13,500</b>	

SMALL PROJECTS (DIVIDED AS NEEDED): BENCH, SWING BENCH, PICNIC TABLE, OR PARK SIGN (This project can be divided into multiple projects as budget allows; each piece of site furniture should be installed on a pad to prevent erosion and to stabilization site)					
Item	Unit	Qty	Cost/Unit	Extended Cost	Notes
Swing Benches	EA	3	\$5,000.00	\$15,000	Includes freight shipping and installation on a concrete or crushed stone pad
Benches	EA	4	\$3,600	\$14,400	Includes freight shipping and installation on a concrete or crushed stone pad
Picnic table	EA	1	\$2,000.00	\$2,000	Includes freight shipping and installation on a concrete or crushed stone pad

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Design & Engineering	Percent	20%	\$5,389	Expect to pay between 15-20% of projected project costs
Contingency (15%)	Percent	15%	\$4,042	
<b>TOTAL</b>			<b>\$40,831</b>	<b>TOTAL</b>
<b>PHASE II TOTAL</b>			<b>\$412,149</b>	
<b>GRAND TOTAL</b>			<b>\$757,149</b>	