

TAYLOR RUN STREAM STABILIZATION					AECOM	
30% OPINION OF PROBABLE CONSTRUCTION COSTS					Oct-25	
CITY OF ALEXANDRIA					BY: T NELSON	
#	TECH SPEC #	ITEM/DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
		General Conditions				
1.1	ITEM 1050	Maintenace of Traffic	1	LS	\$4,800.00	\$4,800.00
		Construction Surveying				
2.1	ITEM 1030	Construction Stakeout	1	LS	\$91,000.00	\$91,000.00
		Erosion/Sediment Control				
3.1	ITEM 3020	Stabilized Construction Entrance	2	EA	\$4,098.00	\$8,196.00
3.2	ITEM 3030	Super Silt Fence	1180	LF	\$16.00	\$18,880.00
3.3	ITEM 1080	High Visibility Safety Fence	2956	LF	\$4.00	\$11,824.00
3.4	ITEM 7020	Temporary Seeding and Mulching	1295	SY	\$1.00	\$1,295.22
3.5	ITEM 3060	Tree Protection Fence	446	LF	\$12.00	\$5,352.84
3.6	ITEM 3050	Maintenance of Stream Flow	1	LS	\$38,800.00	\$38,800.00
		Access Road & Staging				
4.1	ITEM 1100	Stockpile/Staging Areas	556	SY	\$8.00	\$4,444.44
		Clearing and Demolition				
5.1	ITEM 1040	Clearing & Grubbing, Including Trees up to 12" Diameter	0.3	AC	\$6,800.00	\$1,776.42
5.2	ITEM 1040	Tree Removal (13" to 24" diameter)	10	EA	\$650.00	\$6,500.00
5.3	ITEM 1040	Tree Removal (25" to 54" diameter)	1	EA	\$3,000.00	\$3,000.00
5.4	ITEM 1070	Demolition of Existing Structures	1	LS	\$25,000.00	\$25,000.00
		Earthwork				
6.1	ITEM 2010	Stream Channel Excavation - Class 5	1011	CY	\$30.00	\$30,330.00
6.2	ITEM 2020	Load and Haul Off-site	413	CY	\$46.00	\$18,998.00
		Project Area 1: Upstream Stormwater Outfall				
7.1	ITEM 9060	VDOT No. 78 Stone (Drainage Stone)	78	TON	\$65.00	\$5,101.88
7.2	ITEM 9060	VDOT No. 1 Stone (Leveling Pad)	57	TON	\$85.00	\$4,882.10
7.3	ITEM 4030	Gravity Retaining Wall, Concrete Gravity (6FT or less)	94	LF	\$657.00	\$61,521.48
7.4	ITEM 4030	Gravity Retaining Wall, Concrete Gravity (greater than 6 FT)	90	LF	\$1,164.00	\$105,144.12
7.5	ITEM 4060	Gravity Wingwall, 8' high	1	EA	\$4,528.00	\$4,528.00
7.6	ITEM 4020	Rip Rap Class I (Boulder Pool)	122	SY	\$90.00	\$10,966.00
7.7	ITEM 4010 &9010	Imbricated Rock for Rock Cascade	160	TON	\$215.00	\$34,292.50
7.8	ITEM 9030 AND 9040	Stream Substrate Mix	18	CY	\$120.00	\$2,133.33
7.9	ITEM 7010	Type D Soil Stabilization Matting	345	SY	\$6.00	\$2,068.27
7.10	ITEM 4070	Rock Façade Stamp & Seal	1	LS	\$5,000.00	\$5,000.00
7.11	ITEM 4040	Three Rail Smooth Aluminum Railing	184	LF	\$152.00	\$27,963.44
		Project Area 1 Subtotal:				\$263,601.13
		Project Area 2: Sanitary Sewer Crossing 1 and Stormwater Outfall				
8.1	ITEM 4040	Armored Utility Crossing	22	LF	\$97.00	\$2,134.00
8.2	ITEM 4050	Concrete Endwall, 36" Pipe	1	EA	\$2,113.00	\$2,113.00
8.3	ITEM 4030	VDOT No. 78 Stone (Drainage Stone)	85	TON	\$65.00	\$5,519.09
8.4	ITEM 4030	VDOT No. 1 Stone (Leveling Pad)	38	TON	\$85.00	\$3,243.98
8.5	ITEM 4030	Retaining Walls, Concrete Gravity (greater than 6 FT)	125	LF	\$1,164.00	\$145,406.88
8.6	ITEM 4020	Rip Rap Class I (Boulder Pool)	171	SY	\$90.00	\$15,349.20
8.7	ITEM 4010 &9010	Imbricated Rock for Rock Cascade	222	TON	\$215.00	\$47,659.48
8.8	ITEM 9030 AND 9040	Stream Substrate Mix	9	CY	\$120.00	\$1,080.00
8.9	ITEM 7010	Type D Soil Stabilization Matting	356	SY	\$6.00	\$2,133.33
8.10	ITEM 4070	Rock Façade Stamp & Seal	1	LS	\$3,000.00	\$3,000.00
8.11	ITEM 4040	Three Rail Smooth Aluminum Railing	125	LF	\$152.00	\$18,987.84
		Project Area 2 Subtotal:				\$246,626.80

		Project Area 3: Exposed Sanitary Sewer Manhole				
9.1	ITEM 9060	VDOT No. 78 Stone (Drainage Stone)	209	TON	\$65.00	\$13,556.40
9.2	ITEM 9060	VDOT No. 1 Stone (Leveling Pad)	123	TON	\$85.00	\$10,434.60
9.3	ITEM 9030 AND 9040	Stream Substrate Mix	80	CY	\$120.00	\$9,608.89
9.4	ITEM 4030	Retaining Walls, Concrete Gravity (6FT or less)	19	LF	\$657.00	\$12,574.98
9.5	ITEM 4030	Retaining Walls, Concrete Gravity (greater than 6 FT)	50	LF	\$1,164.00	\$58,188.36
9.6	ITEM 4040	Three Rail Smooth Aluminum Railing	69	LF	\$152.00	\$10,507.76
Project Area 3 Subtotal:						\$114,870.99
		Project Area 4: Sanitary Sewer Crossing 2 and Retaining Wall				
10.1	ITEM 9050	Riprap for Rockpacking (Rip Rap Type III)	40	TON	\$215.00	\$8,632.25
10.2	ITEM 7010	Type D Soil Stabilization Matting	363	SY	\$6.00	\$2,180.91
10.3	ITEM 9030 AND 9040	Stream Substrate Mix	32	CY	\$120.00	\$3,857.33
10.4	ITEM 4020	Rip Rap Class I (Plunge Pool and Energy Dissipation)	125	SY	\$90.00	\$11,234.02
10.5	ITEM 4010 & 9010	Imbricated Rock for Rock Cascade	125	TON	\$215.00	\$26,957.45
10.6	ITEM 9060	VDOT No. 78 Stone (Drainage Stone)	209	TON	\$65.00	\$13,556.40
10.7	ITEM 9060	VDOT No. 1 Stone (Leveling Pad)	123	TON	\$85.00	\$10,434.60
10.8	ITEM 4030	Retaining Walls, Concrete Gravity (6FT or less)	12	LF	\$657.00	\$7,581.78
10.9	ITEM 4030	Retaining Walls, Concrete Gravity (greater than 6 FT)	69	LF	\$1,164.00	\$80,537.16
10.10	ITEM 4050	Armored Utility Crossing	22	LF	\$97.00	\$2,134.00
10.11	ITEM 4040	Three Rail Smooth Aluminum Railing	81	LF	\$152.00	\$12,270.96
Project Area 4 Subtotal						\$179,376.85
		Planting and Seeding				
11.1		Permanent Seeding	1,851	SY	\$14.00	\$25,910.89
Construction Subtotal						\$1,100,583.59
Construction Escalation Factor (4.3%)						\$63,100.13
Construction Subtotal w/ Escalation Factor						\$1,163,683.72
Mobilization/Demobilization (5%)						\$85,029.18
Construction Contingency (30%)						\$349,105.12
Construction Total						\$1,597,818.01
Notes :						
(1)		Assumes a construction start date of October 2026, midpoint of construction February 2027. The annual inflation rate is 4.4% for the 12 months ending in September 2025, according to data published by the U.S Department of Labor. This 4.4% is applied to the construction subtotal until the midpoint of construction.				
(2)		Mobilization/Demobilization is assumed to include the transport, staging, delivery, assembly and set-up of all equipment, tools, storage facilities, fuel and oil, office trailers, etc. required to perform the work, and the subsequent demobilization of same. It also includes labor costs for on-site project manager, project engineer and quality assurance manager. No additional payment will be made for demobilization and remobilization because of shutdowns, suspensions of work, or other mobilization actives. Based on standard VDOT formula for projects up to \$200,000 is 10% of total contract amount, for projects under \$1M (\$20,000 + 7.5%*(Total Construction Cost - \$200,00)), and for projects over \$1M is (\$80,000 + 5%*(Total Construction Cost - \$1M)).				
(3)		The "Construction Contingency" is to account for unforeseen and unknown items that may be encountered during the construction of the project and variations in contractor unit prices resulting from competitive bidding. Due to the level of detail contained in this construction cost estimate, the contingency is estimated at 30% of the Subtotal plus its Escalation Factor.				