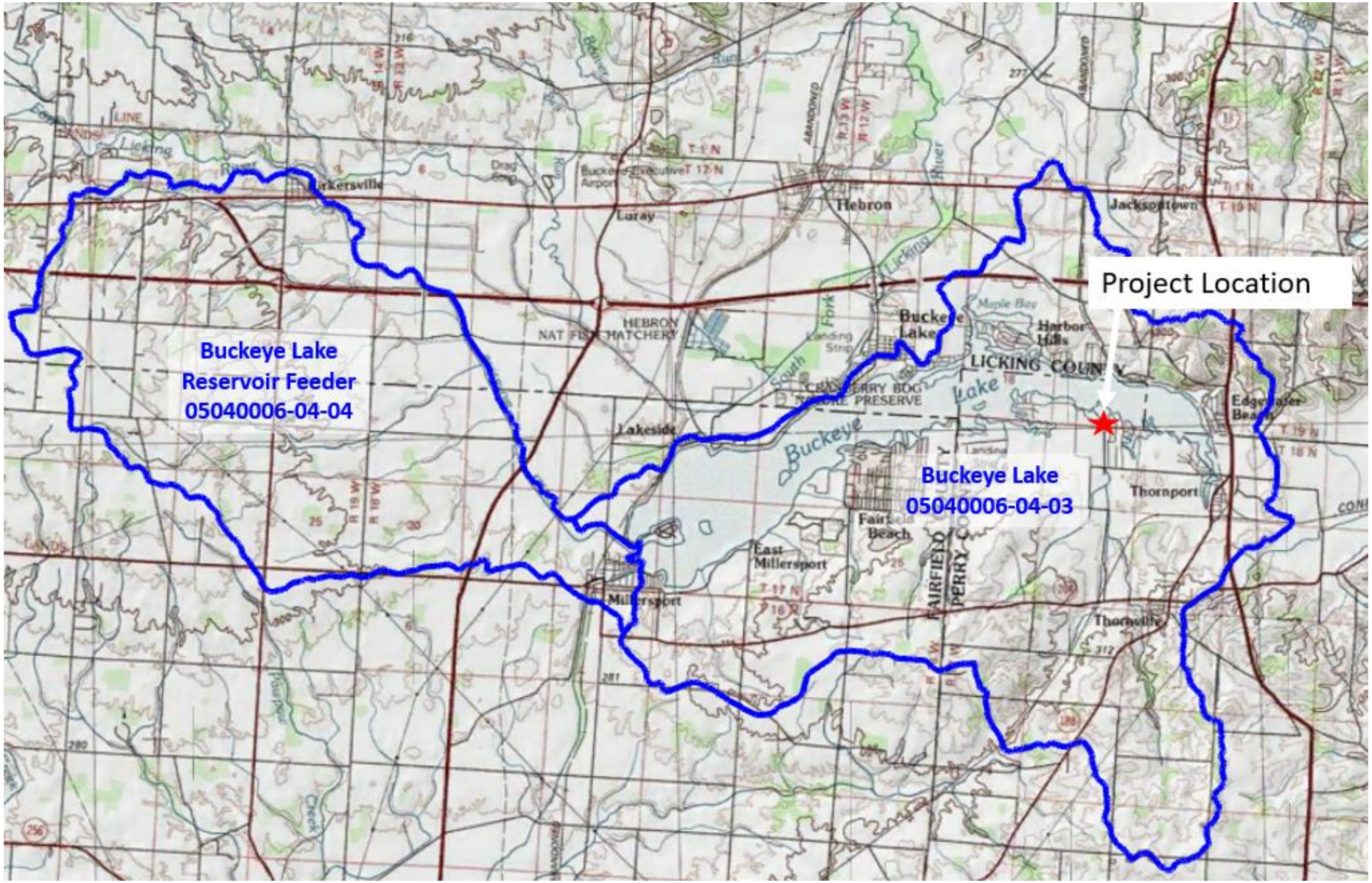
Project Summary

Honey Creek Stream Restoration – Phase 1

Buckeye Lake for Tomorrow Inc

Vicinity Map – USGS Quadrangle



Project Area Map (with soils)

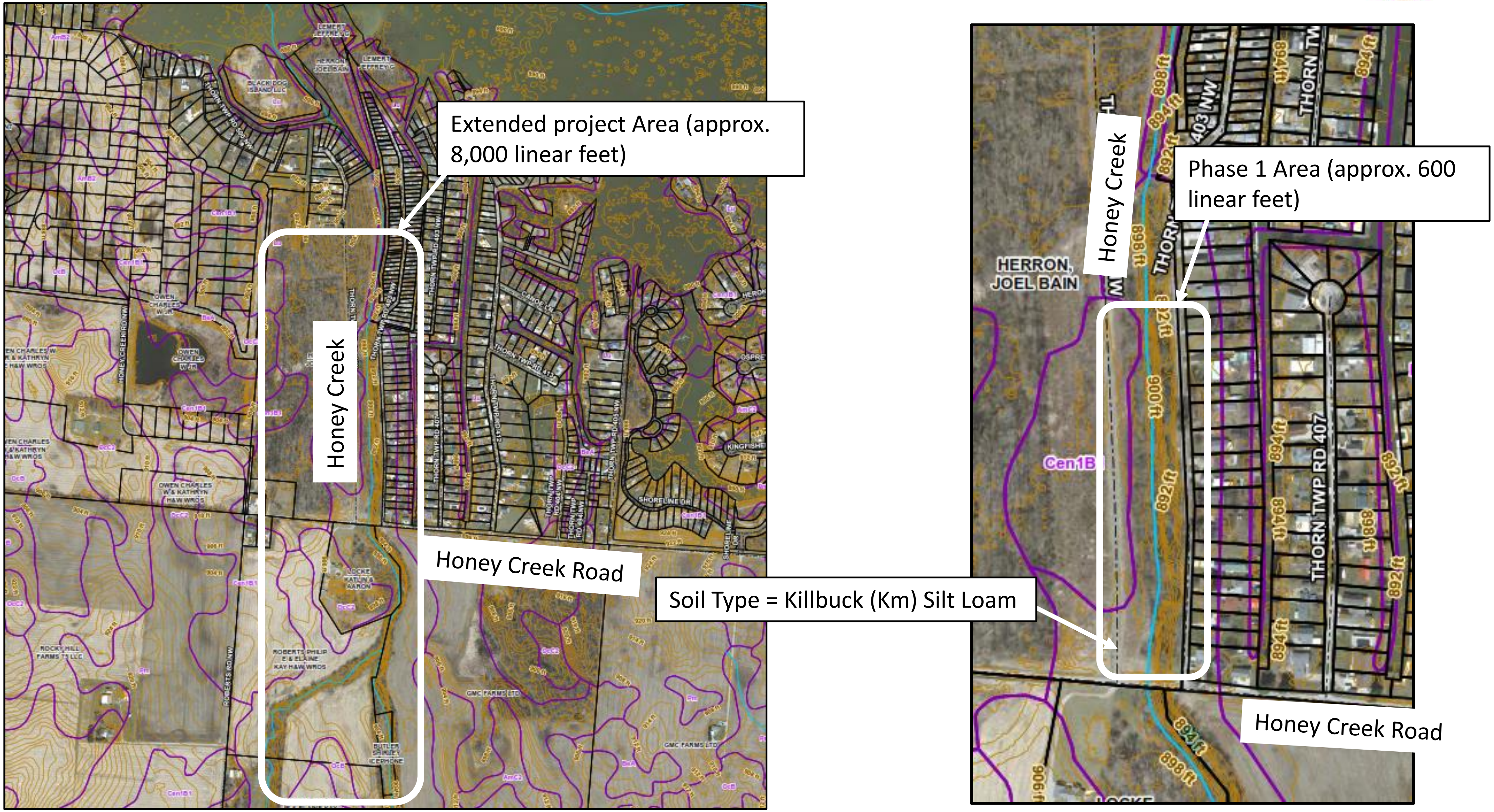


Photo Documentation – Honey Creek Lower Reach

- Lacking a continuous riparian corridor

- Over-wide channel lacking bedform features

- Steep, eroding channel banks

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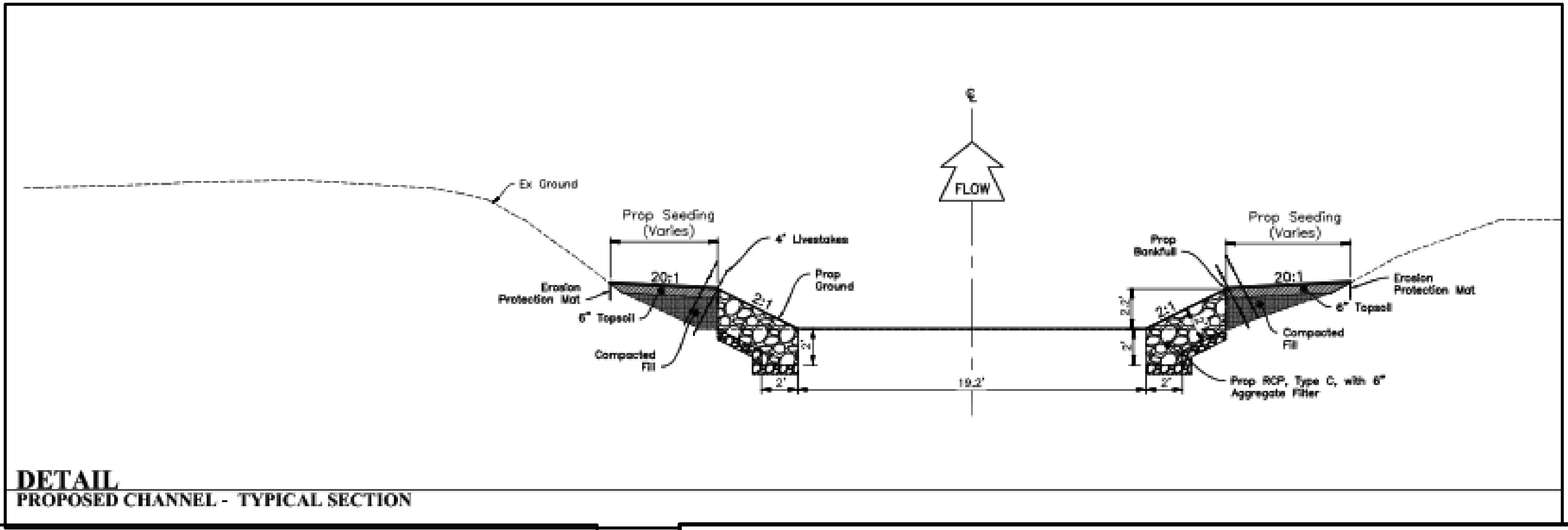
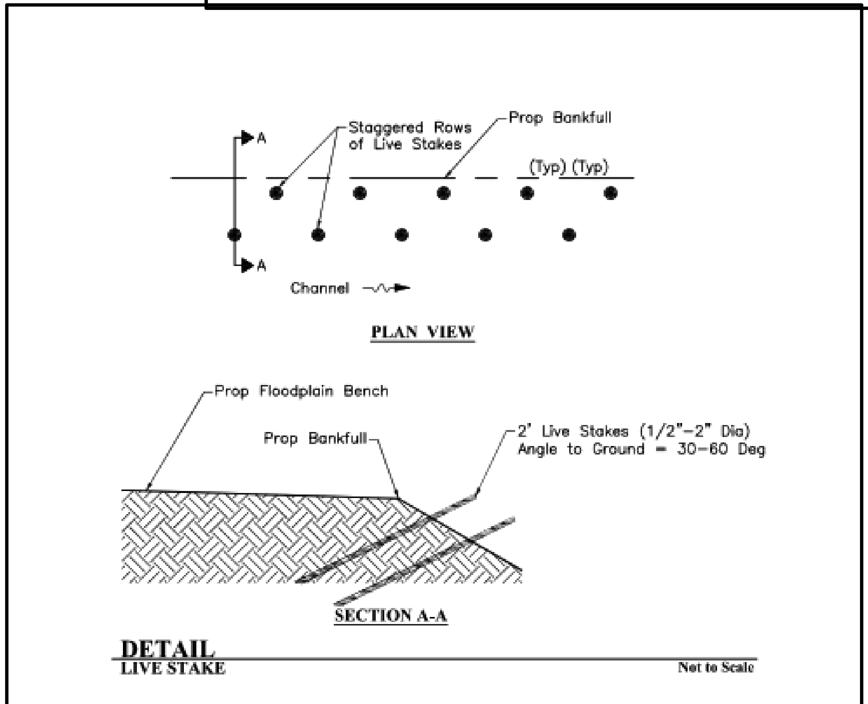
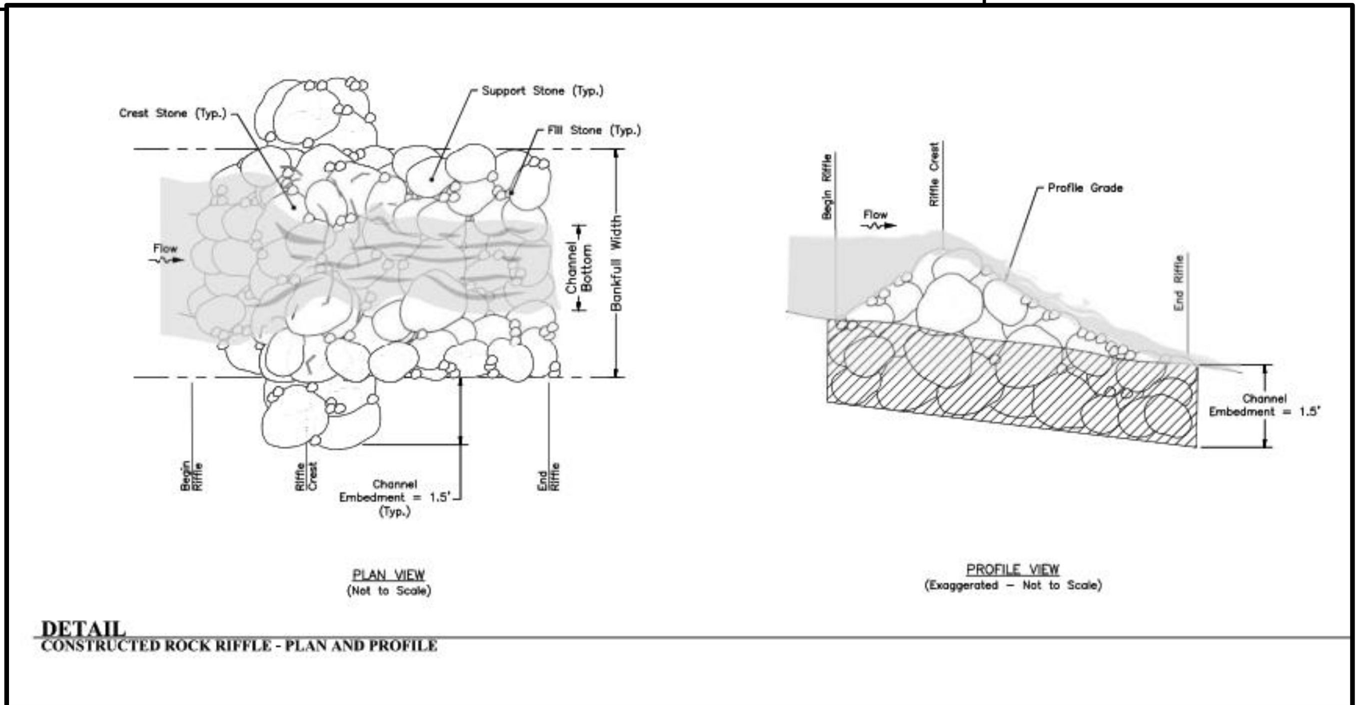
Design Details – Honey Creek Restoration







Cost Estimate – Honey Creek Restoration

ENGINEERS OPINION OF PROBABLE PROJECT COST
THORN TOWNSHIP, PERRY COUNTY, OHIO
HERRON PROPERTY/HONEY CREEK RESTORATION PLAN (PRELIMINARY CONCEPT DESIGN)
JOB NUMBER 2025-0126
February 27, 2025
Stream Restoration for ~600 LF

Stream Restoration Items					
Item No.	Description	Quantity	Units	Unit Cost	Item Cost
201	Clearing and Grubbing	1	LS	$9,000.00	$9,000.00
203	Embankment	300	CY	$10.00	$3,000.00
203	Excavation (For Use As Embankment)	300	CY	$10.00	$3,000.00
203	Excavation (To Export)	400	CY	$25.00	$10,000.00
207	Erosion and Sediment Control	1	LS	$16,000.00	$16,000.00
601	Rock Channel Protection, Type C	590	CY	$130.00	$76,700.00
623	Construction Layout Stakes	1	LS	$3,000.00	$3,000.00
624	Mobilization	1	LS	$15,000.00	$15,000.00
652	Topsoil & Reclaimed Dredge Material Topsoil Furnished (In-Kind) and Placed	170	CY	$10.00	$1,700.00
659	Seeding and Mulching, Riparian Seed Mix	1200	SY	$2.50	$3,000.00
661	Willow Live Stakes Furnished & Placed (In-Kind)	1200	EA	$0.00	$0.00
661	Trees & Shrubs Furnished & Placed (In-Kind)	50	EA	$0.00	$0.00
670	Slope Erosion Protection Mat	1270	SY	$8.00	$10,160.00
SPEC	US EPA & Ohio EPA Signage	1	EA	$1,000.00	$1,000.00
SPEC	Dewatering	1	LS	$37,000.00	$37,000.00
SPEC	Rock Riffle	3	EA	$25,000.00	$75,000.00

SUBTOTAL CONSTRUCTION =	$263,560
CONTINGENCY (15%) =	$39,534
TOTAL CONSTRUCTION =	$303,094
CONSTRUCTION ADMINISTRATION (IN-KIND SERVICES) =	$0.00
SECURING AND RECORDING AN ENVIRONMENTAL COVENENT (IN-KIND SERVICES) =	$0.00
ENGINEERING & PERMITTING COSTS =	$100,000
TOTAL PROJECT COST (STREAM RESTORATION) =	**$404,000**

NOTES:

1) This cost estimate does not account for private utility relocations or the support of private utiities that could be required as part of this project. Nor does it account for the possible cost of road way repair or construction down time associated with high water levels in the channel.

2) Engineering & Permitting Costs include design engineering, waterway and floodplain permitting, H&H modeling, field surveying, and preparation of a legal description for the environmental covenent

3) This cost estimate reflects input from Others pertaininig to the cost of items that would be performed with in-kind services.

Load Reduction Calculation – Honey Creek Restoration

Bank Stabilization

If estimating for just one bank, put "0" in areas for Bank #2.

Please select a soil textural class:

- ○ Sands, loamy sands
- ○ Sandy loam
- ○ Fine sandy loam
- ○ Loams, sandy clay loams, sandy clay
- ● Silt loam
- ○ Silty clay loam, silty clay
- ○ Clay loam
- ○ Clay
- ○ Organic

Please fill in the gray areas below:

Parameter	Bank #1	Bank #2	**Example**	
Length (ft)	600	600	**500**	
Height (ft)	5	5	**15**	
Lateral Recession Rate (ft/yr)*	0.5	0.5	**0.5**	
Soil Weight (tons/ft3)	0.0425	0.0425	**0.04**	
Soil P Conc (lb/lb soil)**	0.0005	0.0005	**0.0005**	**
Soil N Conc (lb/lb soil)**	0.001	0.001	**0.001**	**

** If not using the default values, users must provide input (in red) for Total P and Total N soil concentrations
*Lateral Recession Rate (LRR) is the rate at which bank deterioration has taken place and is measured in feet per year. This rate may not be easily determined by direct measurement. Therefore best professional judgement may be required to estimate the LRR. Please refer to the narrative descriptions in Table 1.

Estimated Load Reductions

	BMP Efficiency* Bank #1	**BMP Efficiency* Bank #2**	**Bank #1**	**Bank #2**	**Example**
Sediment Load Reduction (ton/year)	0.5	0.5	31.9	31.9	**75**
Phosphorus Load Reduction (lb/year)			31.9	31.9	**75**
Nitrogen Load Reduction (lb/yr)			63.8	63.8	**150**

* BMP efficiency values should be between 0 and 1, and 1 means 100% pollutant removal efficiency.