

UPPER TRIER DRAIN - PHASE II

INVASIVE SPECIES REMOVAL & RESTORATION

Fort Wayne, IN • September 11, 2019

PRELIMINARY CONSTRUCTION DRAWINGS

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Sheet 1	DEMOLITION PLAN
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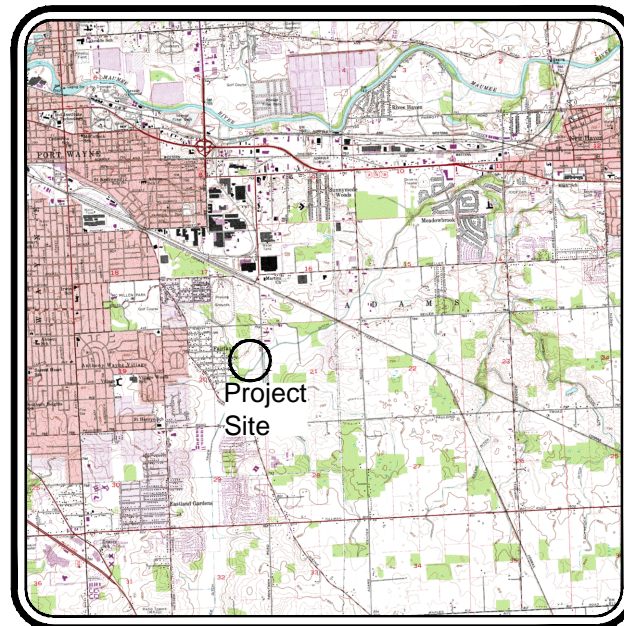
Plans Prepared For:

SAVE MAUMEE
1901 Niagara Way
Fort Wayne, IN 46805

Plan Prepared By:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818 (260)489-8511



Regional Location Map

Not to Scale








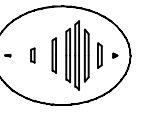
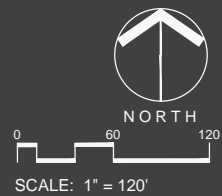
Vicinity Location Map

Not to Scale



LEGEND

PROPERTY LINE	
LIMITS OF WORK	
EXISTING CONTOURS	
EXISTING VEGETATION	
INVASIVE VEGETATION TO BE REMOVED	



Earth-Source Inc
401 West Main Street, Fort Wayne, IN 46802-1414

TRIER DRAIN RESTORATION


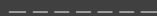



SAVE MAUMEE
 Fort Wayne, Indiana


Invasive Species Removal Plan

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GDT	09/11/19
checked by:	date:
DLE	09/11/19
revisions:	date:

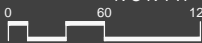
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LEGEND

PROPERTY LINE	
LIMITS OF WORK (50 MIN. FROM TOP OF BANK)	
TOP OF BANK	
SEEDING AREAS	
TREE & SHRUB PLANTING AREAS	



NORTH



SCALE: 1" = 120'




APPROX. PROPERTY LINE

EXISTING TREE LINE
 RESTORATION SEEDING
 2.28 Acres
 WS1 Seed Mix
 RESTORATION PLANTING
 1,200 LF
 0.69 Acres
 345 Trees
 118 Shrubs

EXISTING TREE LINE
 UPPER TRIER DRAIN
 TOP OF BANK

APPROX. PROPERTY LINE

Albright Road



Earth-Source Inc
 401 West Main Street, Fort Wayne, IN 46802
 765.241.1111

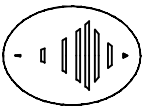
TRIER DRAIN RESTORATION

SAVE MAUMEE
 Fort Wayne, Indiana

Native Seeding & Planting Plan

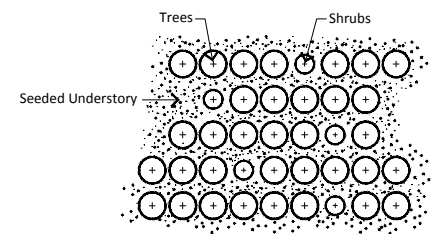
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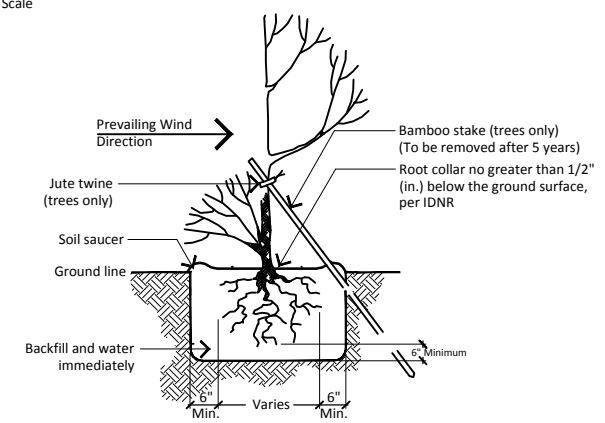


TRIER DRAIN RESTORATION
SAVE MAUMEE
 Fort Wayne, Indiana

Native Seeding & Planting Plan



2 TREE / SHRUB PLANTING LAYOUT
 Not to Scale



1 CONTAINER GROWN TREE/SHRUB INSTALLATION
 Not to Scale

Allen County Forested Understory Mix (WS1)
 Approximate mix weight/acre 38,5006 LBS, 107 native seeds/sq ft.
 58.9% Grasses/Sedges/Rushes, 41.1% Forbs, 100% Temporary Cover

Grasses/Sedges/Rushes		
Scientific Name	Common Name	Seed %
<i>Carex crinita</i>	Fringed Sedge	2.34%
<i>Carex frankii</i>	Frank's Sedge	0.69%
<i>Carex granularis</i>	Meadow Sedge	1.37%
<i>Carex grayi</i>	Gray's Sedge	0.09%
<i>Carex lupulina</i>	Hop Sedge	0.44%
<i>Carex muskingumensis</i>	Muskingum Sedge	2.29%
<i>Carex normalis</i>	Larger Straw Sedge	2.13%
<i>Carex shortiana</i>	Short's Sedge	1.26%
<i>Cinna arundinacea</i>	Stout Wood Reedgrass	2.08%
<i>Elymus virginicus</i>	Virginia Wild Rye	9.97%
<i>Glyceria striata</i>	Fowl Manna Grass	5.69%
<i>Juncus effusus</i>	Soft Rush	33.37%
<i>Leersia oryzoides</i>	Rice Cut Grass	7.07%
<i>Scirpus cyperinus</i>	Woolgrass	31.22%
Total		100.00%

Forbs		
Scientific Name	Common Name	Seed %
<i>Alisma subcordatum</i>	Subcordate Water Plantain	6.12%
<i>Bidens cernua</i>	Nodding Beggar-Ticks	3.12%
<i>Doellingeria umbellata</i>	Flat-Top White Aster	1.48%
<i>Eupatorium purpureum</i>	Purple Joe Pye Weed	1.80%
<i>Helenium autumnale</i>	Common Sneezeweed	5.33%
<i>Iris virginica shrevei</i>	Blue Flag Iris	0.21%
<i>Lobelia cardinalis</i>	Cardinal Flower	4.15%
<i>Lobelia siphilitica</i>	Great Blue Lobelia	5.05%
<i>Lycopus americanus</i>	American Bugleweed	2.56%
<i>Mimulus ringens</i>	Allegheny Monkey Flower	16.93%
<i>Penthorum sedoides</i>	Ditch-Stonecrop	37.31%
<i>Rudbeckia laciniata</i>	Cut-Leaf Coneflower	0.61%
<i>Verbesina alternifolia</i>	Wingstem	1.41%
<i>Vernonia gigantea</i>	Tall Ironweed	1.02%
<i>Veronicastrum virginicum</i>	Culver's Root	12.02%
<i>Zizia aurea</i>	Golden Alexander	0.87%
Total		100.00%

Temporary Cover Grasses		
Scientific Name	Common Name	Seed %
<i>Avena Sativa</i>	Seed Oat	100.00%
Total		100.00%

Plant Lists
 Riparian Restoration Trees

Qty.	Scientific Name	Common Name	Indicator	Size	Root	Spacing
345	<i>Aesculus flava</i>	Yellow Buckeye	FACU	4' Tall Min.	3 Gal. Container Min.	10' O.C. ± 1'
	<i>Aesculus glabra</i>	Ohio Buckeye	FAC			
	<i>Betula nigra</i>	River Birch	FACW			
	<i>Carya cordiformis</i>	Bitternut Hickory	FACU			
	<i>Carya ovata</i>	Shagbark Hickory	FACU			
	<i>Catalpa speciosa</i>	Northern Catalpa	FACU			
	<i>Celtis occidentalis</i>	Hackberry	FAC			
	<i>Juglans cinerea</i>	Butternut	FACU			
	<i>Liquidambar styraciflua</i>	Sweetgum	FACW			
	<i>Nyssa sylvatica</i>	Blackgum	FAC			
	<i>Populus tremuloides</i>	Quaking Aspen	FAC			
	<i>Quercus bicolor</i>	Swamp White Oak	FACW			
	<i>Quercus macrocarpa</i>	Bur Oak	FAC			
	<i>Quercus michauxii</i>	Swamp Chestnut Oak	FACW			
	<i>Quercus muehlenbergii</i>	Chinquapin Oak	FACU			
	<i>Quercus palustris</i>	Pin Oak	FACW			
	<i>Salix discolor</i>	Pussy Willow	FACW			
	<i>Salix nigra</i>	Black Willow	OBL			
	<i>Sassafras albidum</i>	Sassafras	FACU			
	<i>Taxodium distichum</i>	Bald Cypress	OBL			
<i>Tilia americana</i>	American Basswood	FACU				

Riparian Restoration Shrubs						
Qty.	Scientific Name	Common Name	Indicator	Size	Root	Spacing
115	<i>Amelanchier laevis</i>	Allegheny Serviceberry	UPL	3' Tall Min.	3 Gal. Container Min.	16' O.C. ± 1'
	<i>Cephalanthus occidentalis</i>	Buttonbush	OBL			
	<i>Lindera benzoin</i>	Spicebush	FACW			
	<i>Physocarpus opulifolius</i>	Common Ninebark	FACW			
	<i>Sambucus canadensis</i>	Elderberry	FAC			
	<i>Rosa palustris</i>	Swamp Rose	OBL			
	<i>Viburnum dentatum</i>	Arrowwood Viburnum	FAC			
	<i>Viburnum prunifolium</i>	Blackhaw Viburnum	FACU			
	<i>Viburnum lentago</i>	Nannyberry	FAC			

Seed List

Qty. (ac)	Description
2.26	WS1 - Allen County Forested Understory Seed Mix

Invasive Removal Areas

Qty. (ac)	Description
1.50	Cut-Stump Application (25% glyphosate or triclopyr solution)
0.76	Foliar Application (2% triclopyr solution)

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