



ANN ARBOR
WATER

Stormwater



Liberty Street Creek Restoration

Informational Video
February 3, 2026

City of Ann Arbor – Public Services Area – Engineering

Presented by: Theresa Bridges

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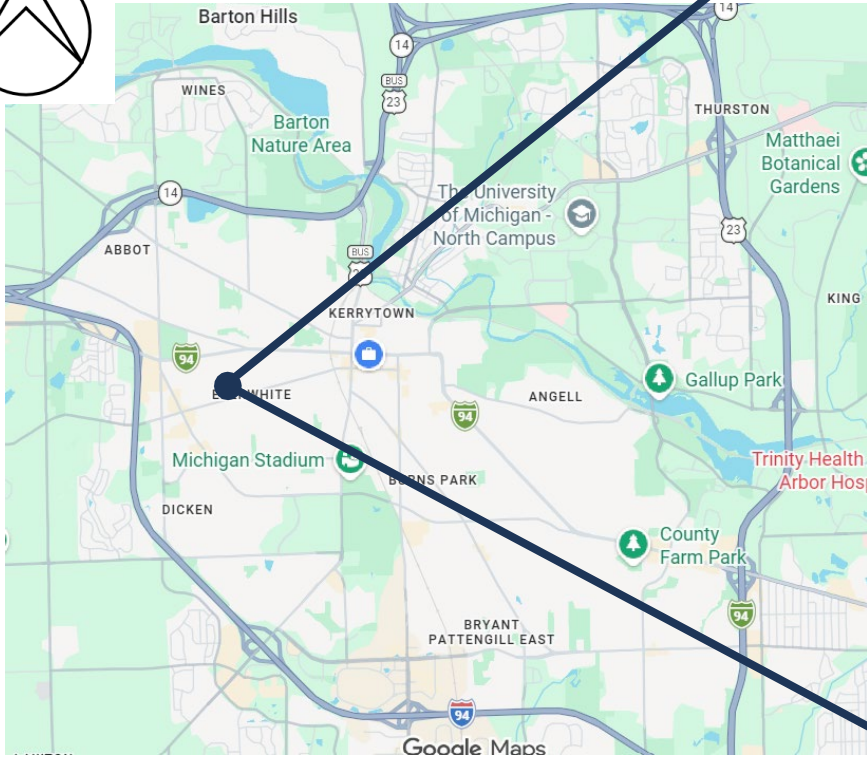


ANN ARBOR
WATER





Introduction





Reason for Project – Existing Conditions

Clean out the creek

Replace soil erosion control facilities

Maintain structures within influence

Inconsistent shape

Protect infrastructure



Reason for Project

Sediment and Fallen Trees





Reason for Project

Failing and Outdated Stabilization Facilities





Reason for Project

Structural Disrepair





Reason for Project

Severe Erosion





Reason for Project

Over Widened Channel





Reason for Project

Narrowed Channel



Protection of Sanitary Sewer



Bank Erosion and Fallen Trees





Creek Restoration Design

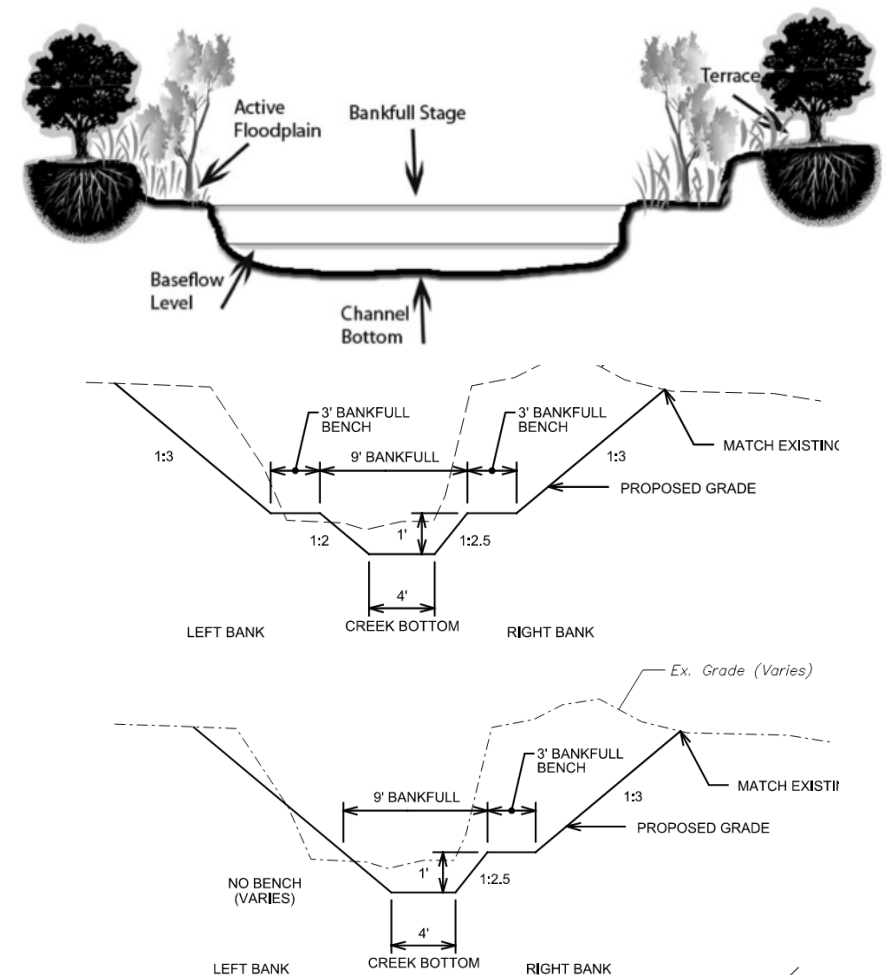
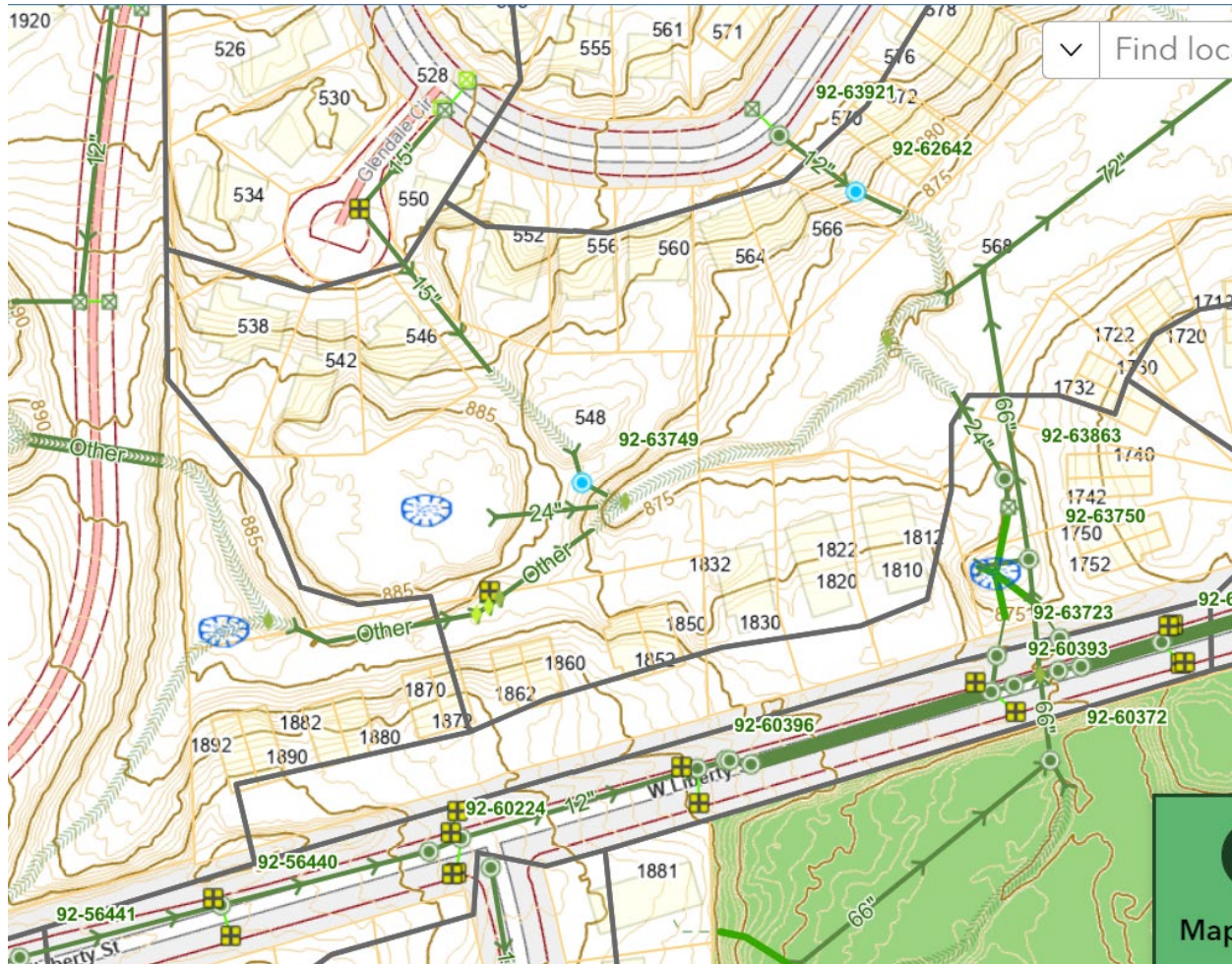
Focus: Create a natural stream that functions for high flow but resists erosion.





Creek Restoration Design

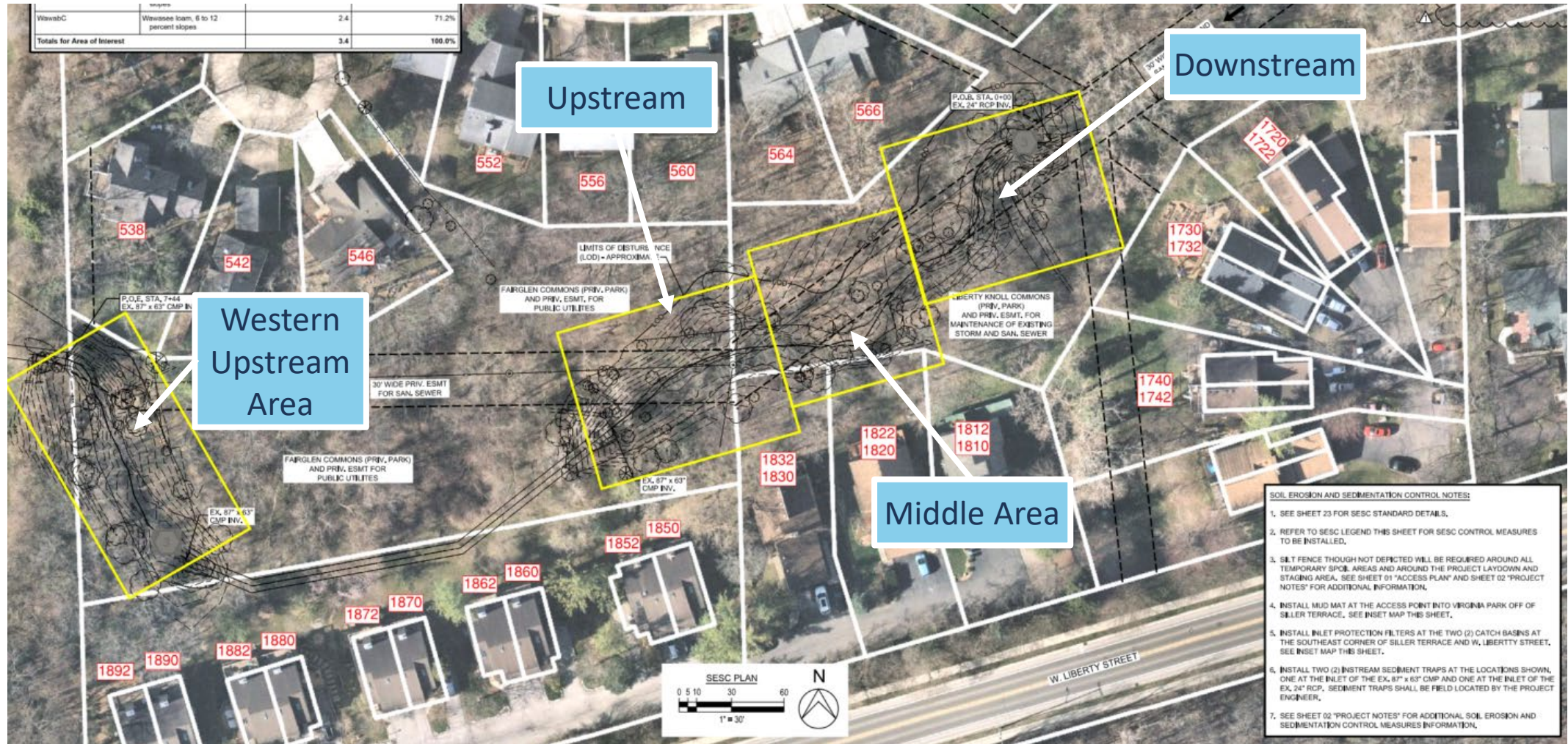
Hydrology and Hydraulics





Creek Restoration Design

Construction Plans

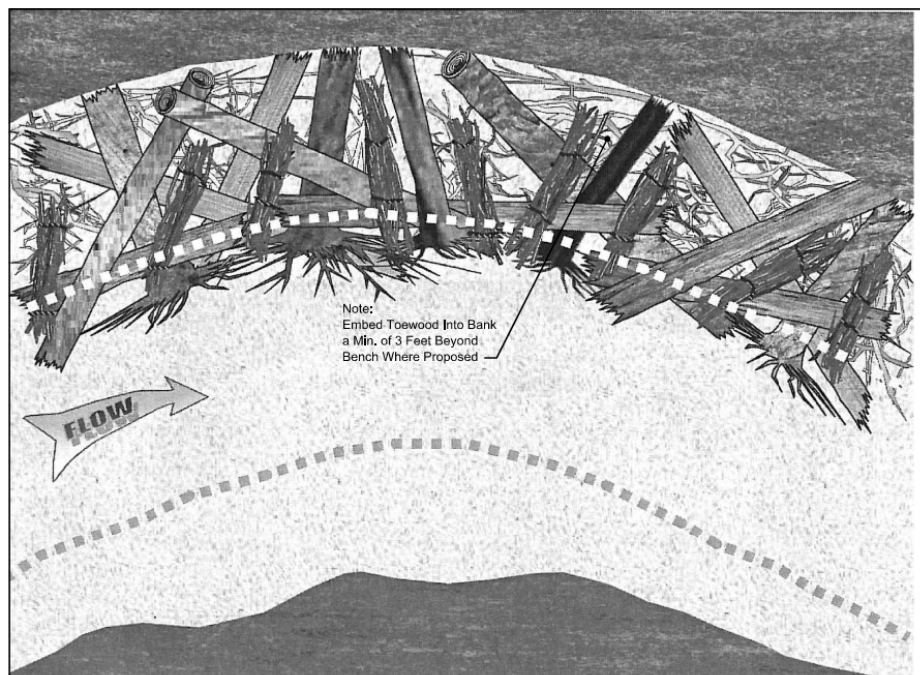




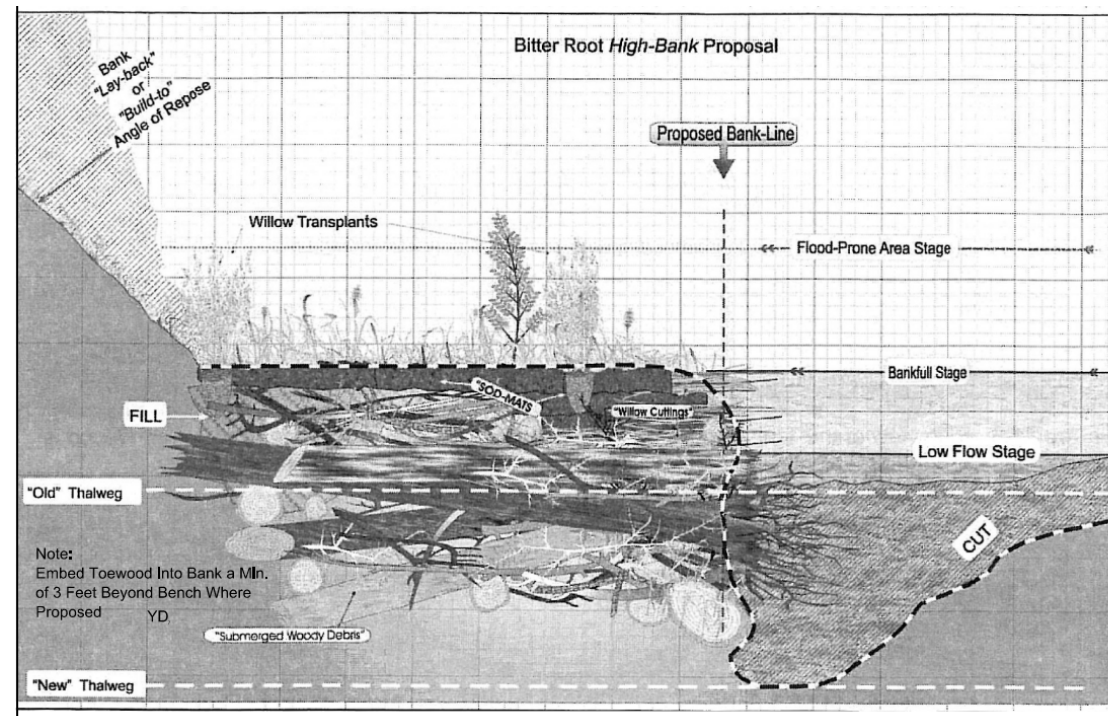


Creek Restoration Design

Toe Wood Detail



TOE WOOD PLAN
NO SCALE

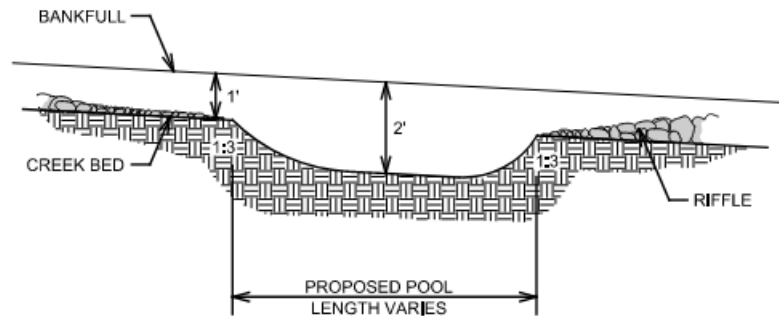


TOE WOOD SECTION
NO SCALE

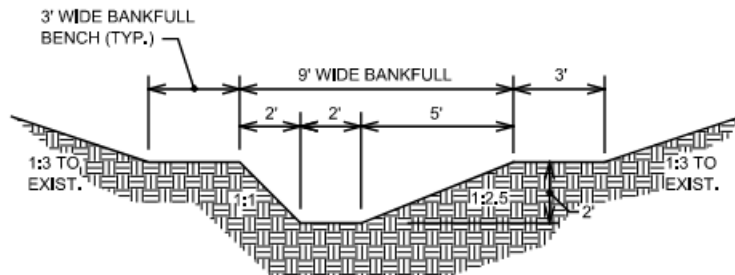


Creek Restoration Design

Sediment Pool Detail

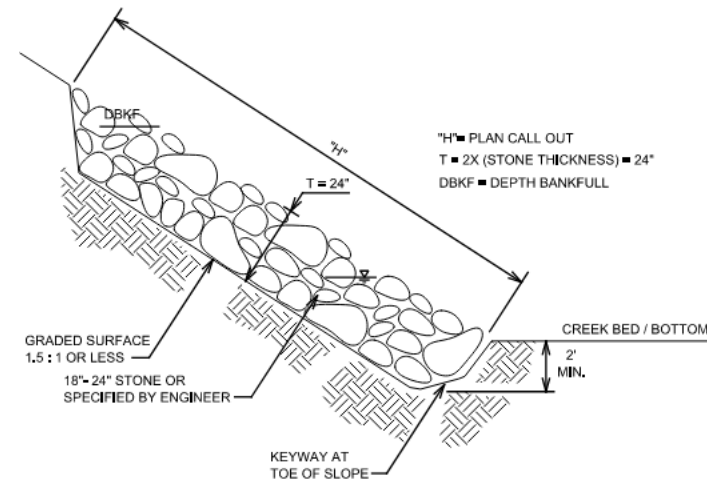


POOL PROFILE
NO SCALE



POOL CROSS SECTION
NO SCALE

Rip Rap Stabilization



RIP RAP BANK STABILIZATION NOTES:

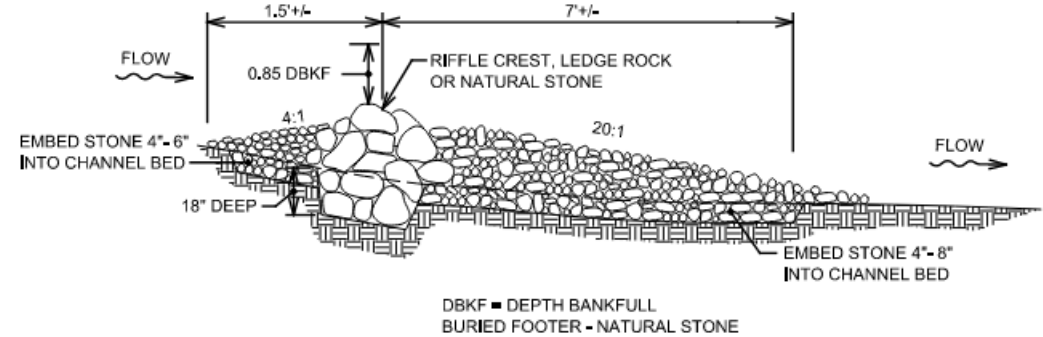
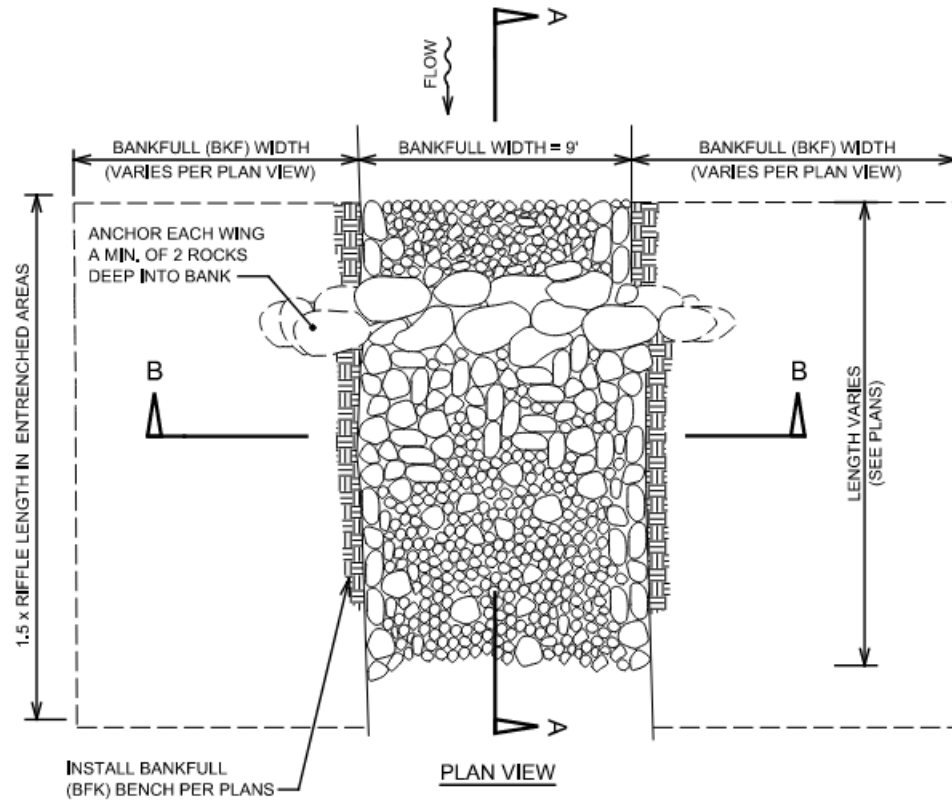
1. EXCAVATE A 2 FT. DEEP AND 1.5 FT. WIDE TRENCH ALONG THE TOE (BASE) OF THE CREEK BANK, INCLUDED IN UNIT PRICE, EXCESS MATERIAL TO BE USED ON SITE AS CALLED FOR OR DISPOSED OF OFF SITE.
2. PLACE A (MIN. 2 FT. HIGH, 2 - 2.5 FT. THICK) STONE REVETMENT ALONG THE BASE OF THE CREEK BANK.
3. USE 18" - 24" WASHED FIELD STONE FOR THE RIP RAP UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
4. FILL IN VOIDS WITH SMALLER STONES 4" - 12".
5. INSTALL TO HEIGHT CALLED FOR ON PLANS OR AS DIRECTED BY PROJECT ENGINEER. HEIGHT TO BE MEASURED ALONG SLOPE FROM CUT IN TRENCH.
6. PAID FOR UNDER THE PAY ITEM "DS_Riprap, Plain - Cyd".

RIP RAP BANK STABILIZATION
NOT TO SCALE

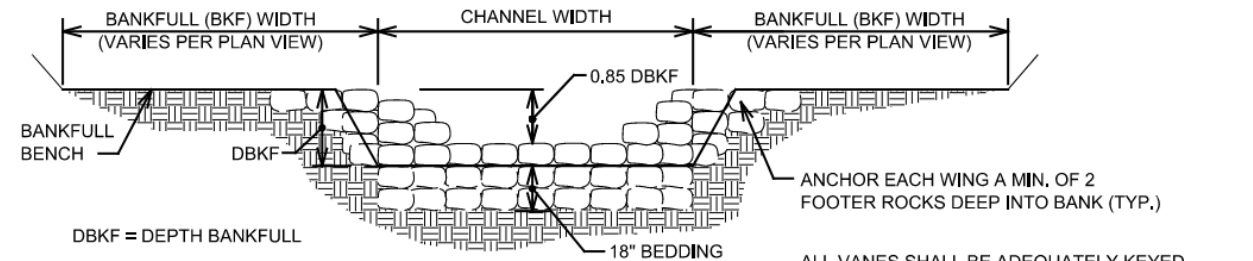


Creek Restoration Design

Constructed Riffle Detail



SECTION A-A



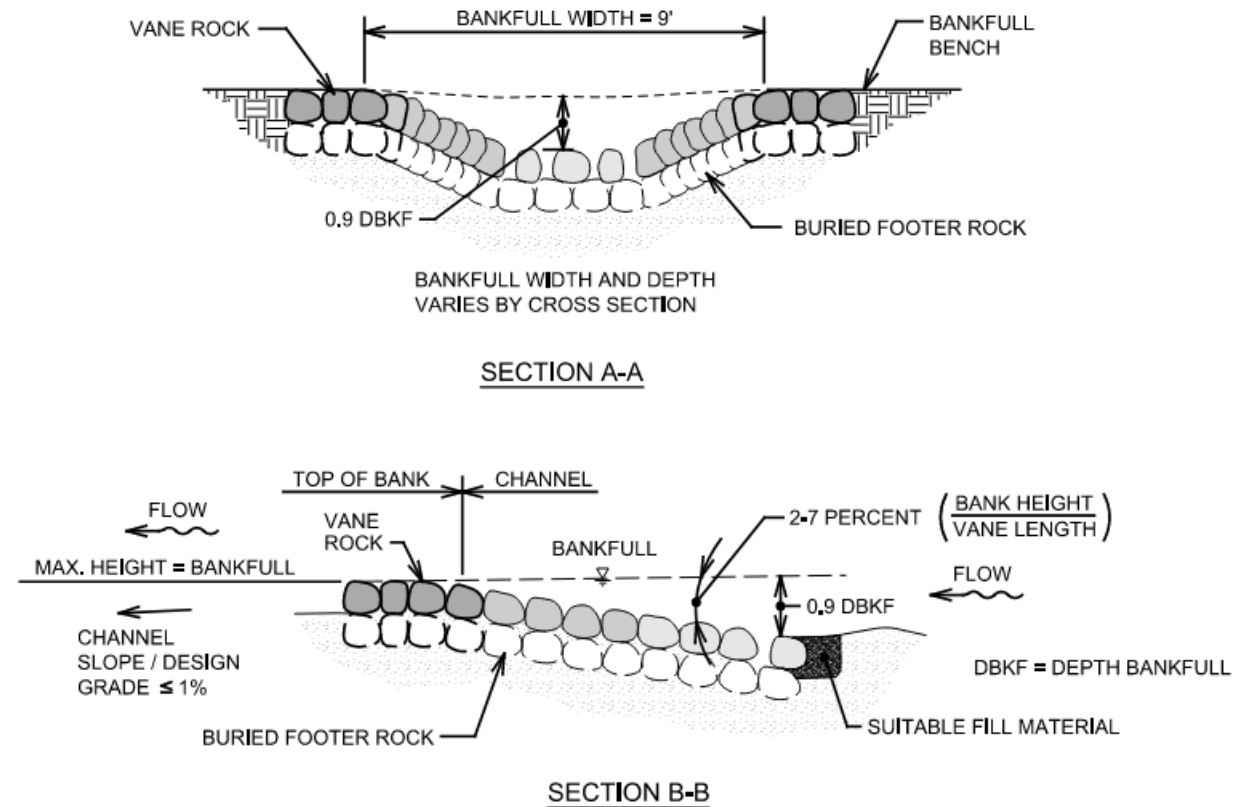
SECTION B-B

RIFFLE MATERIALS:

18" - 24" NATURAL FIELD STONE	20%
12" - 18" NATURAL FIELD STONE	15%
3" - 8" NATURAL FIELD STONE	15%
1/2" - 3" RIVER RUN GRAVEL	50%

ALL VANES SHALL BE ADEQUATELY KEYED INTO THE BANK AS TO PREVENT EROSION OF THE BANK (i.e. AT LEAST 2 FOOTER ROCKS).
RIFFLES SHALL BE KEYED IN AT THE CREST OF THE RIFFLE.

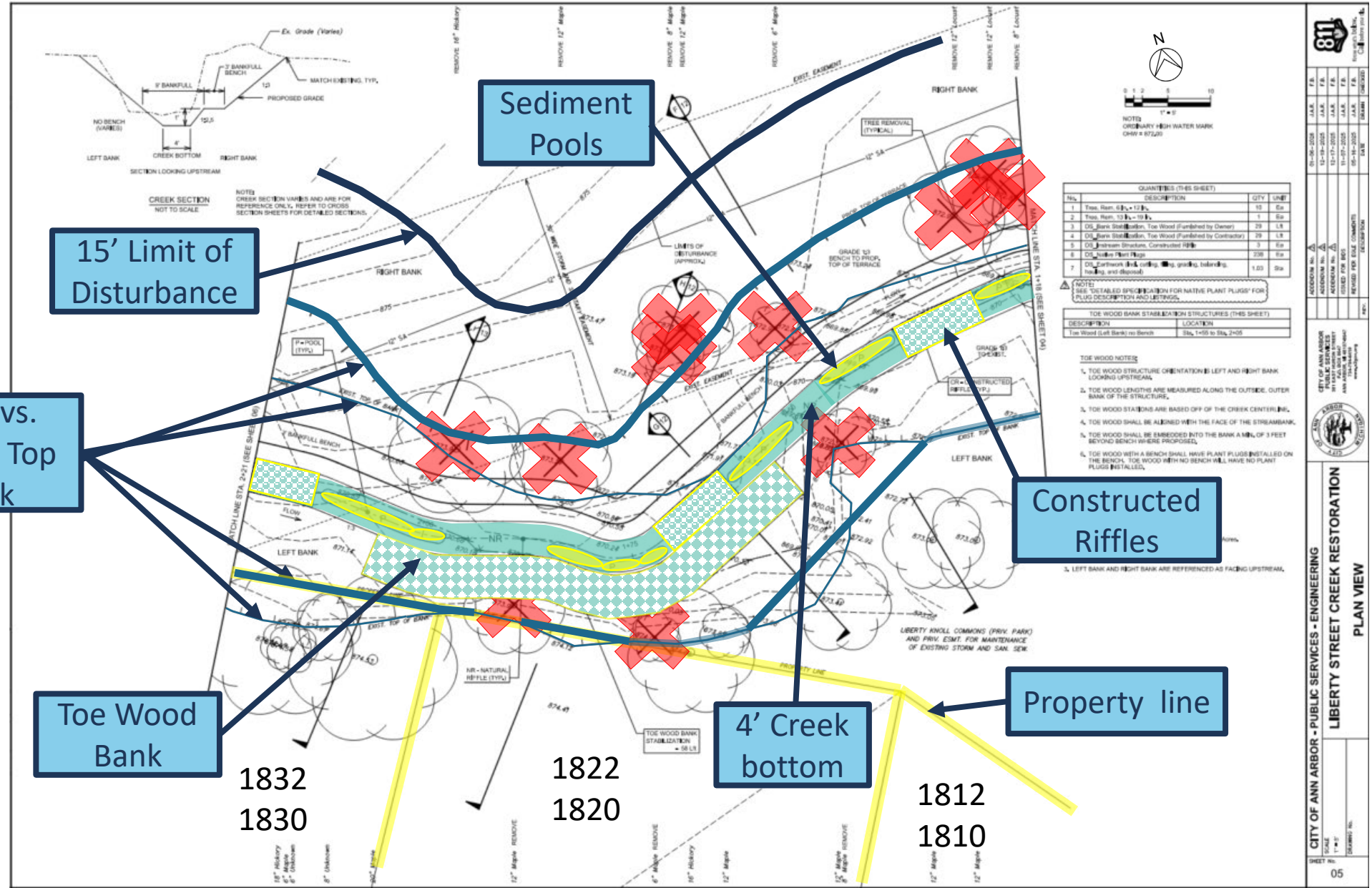
RIFFLE DETAIL
NO SCALE





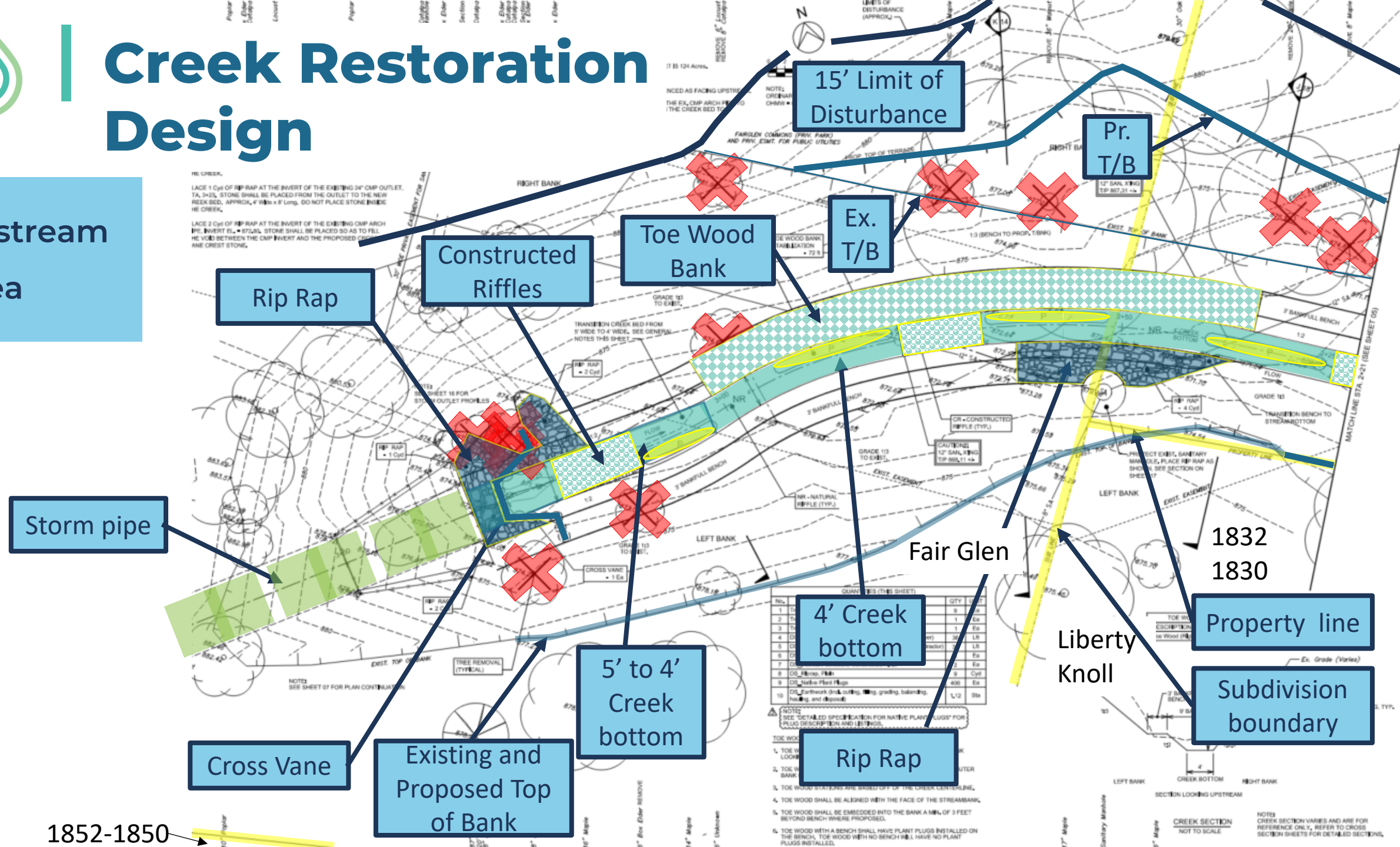
Creek Restoration Design

Middle Area





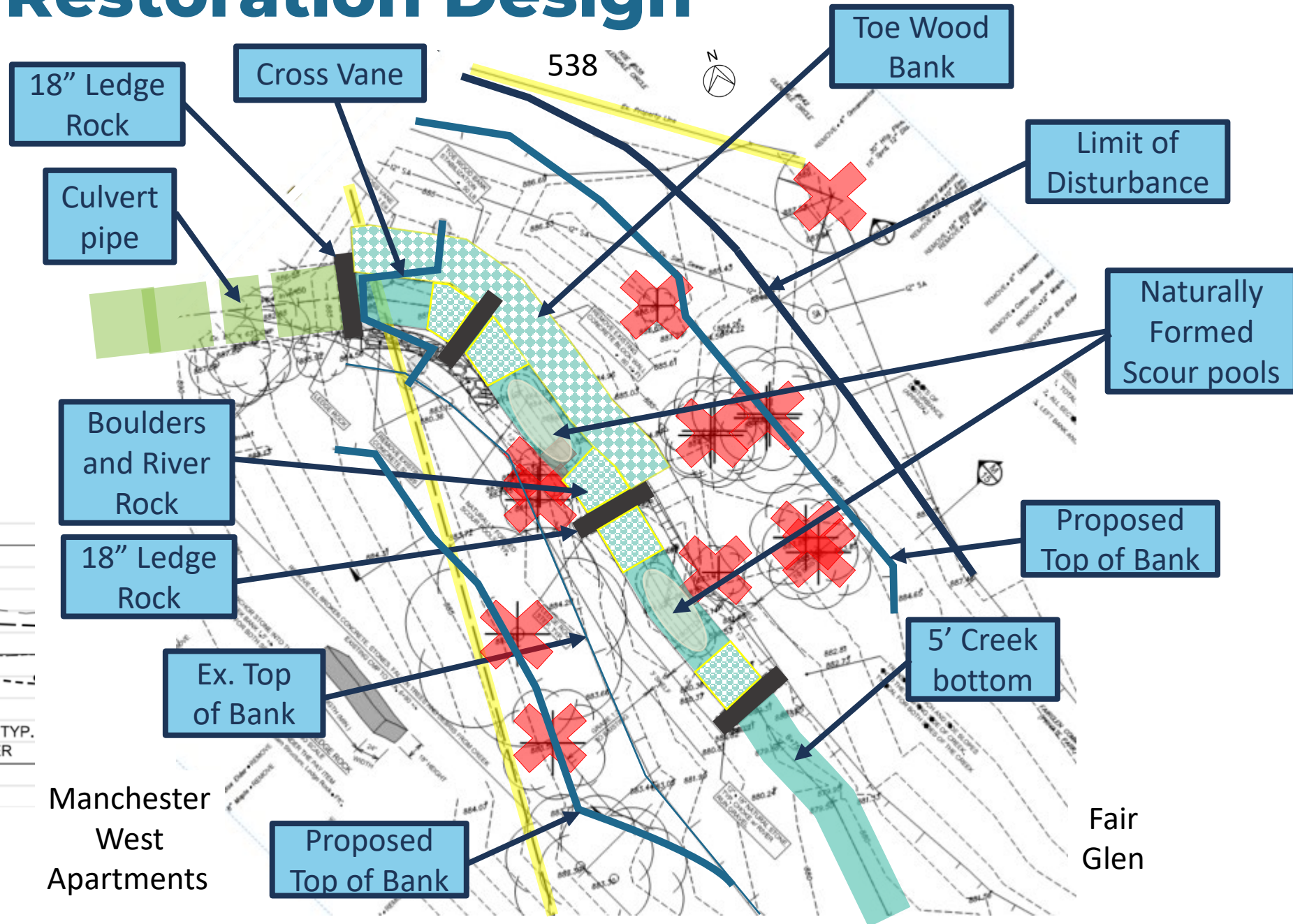
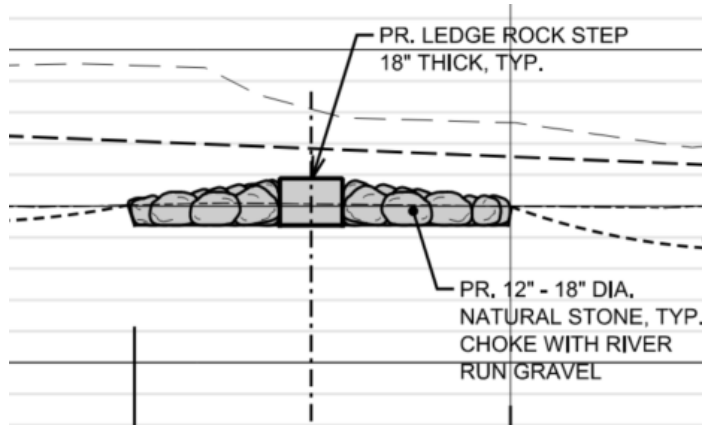
Upstream Area





Creek Restoration Design

Western
Upstream Area





| Site Access

How do we get there?





Site Access

Considerations:

- Feasibility
- Disruption
- Easement
- Tree clearing
- Cost





Site Access

Four Potential Points of Access:





Site Access

Manchester West Apartments Driveway:

Pros

- ✓ Minimal neighborhood disruption
- ✓ Close proximity to construction



Cons

- ✗ Steep slope
- ✗ Extra tree clearing
- ✗ Private Driveway
- ✗ No area for staging materials
- ✗ Disruption to driveway users

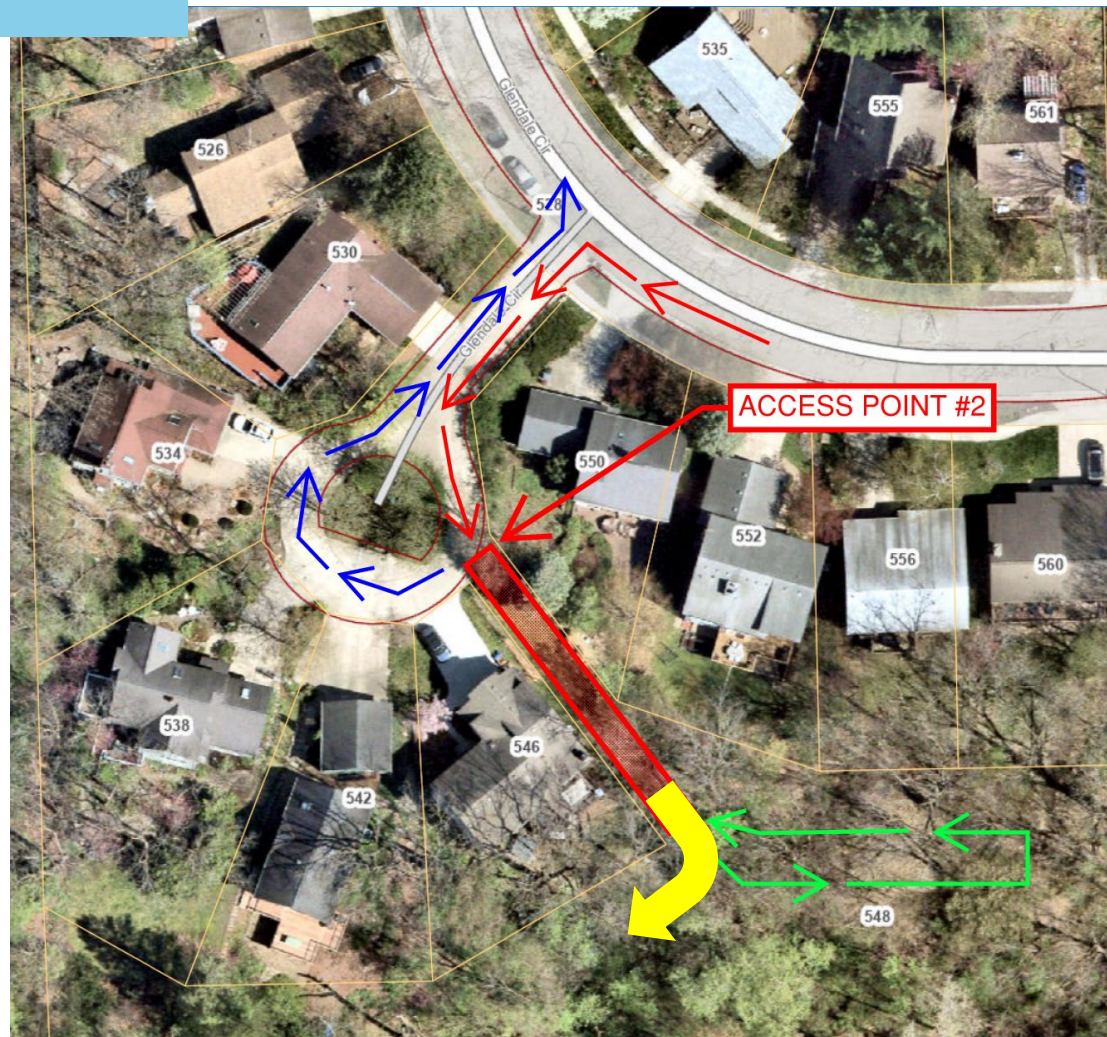


Site Access

Off of Glendale Court:

Pros

- ✓ Existing easement
- ✓ Minimal tree clearing
- ✓ Gentle slope



Cons

- ✗ Disruption on private Glendale Court
- ✗ Easement is ~15 ft wide



Site Access

Off of Glendale Circle:

Pros

- ✓ Existing easement
- ✓ Steeper slope
- ✓ Within public ROW
- ✓ Easement is ~20 ft wide
- ✓ Close to downstream area



Cons

- ✗ Disruption on Glendale Circle and landscaped side yards
- ✗ Tree clearing required at entrance
- ✗ Access over sanitary sewer

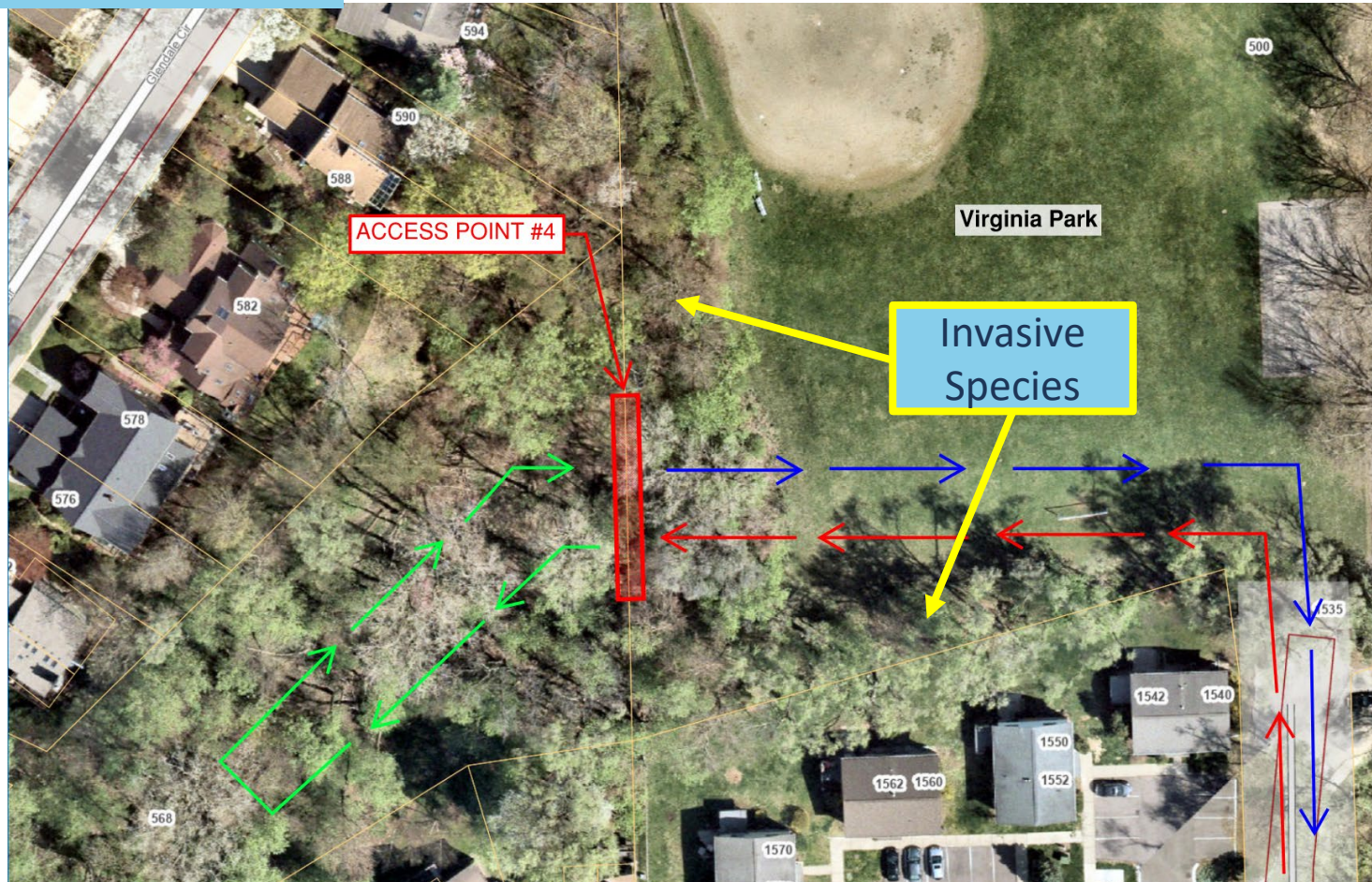


Site Access

Through Virginia Park:

Pros

- ✓ City park
- ✓ Within public ROW
- ✓ Clear staging area



Cons

- ✗ Excessive tree clearing required
- ✗ Steep slope
- ✗ Long distance
- ✗ Restoration of Siller Terrace



Site Access

Access Points #2 (Off of Glendale Court) and #4 (Through Virginia Park)



Tree Removal



Due to the nature of the work in restoring the creek, several trees must be removed.

Most trees in the area are less than 6-inch DBH

Trees being removed:

- 6-12 inches: 32 each
- 13-19 inches: 6 each
- 20-29 inches: 3 each
- 30-39 inches: 2 each



Project Timeline

2024-2025:

**Design and
Permitting**

Fall 2025:

**EGLE Permit
Public Hearing**

Winter 2025-26:

**Bid & Award /
Public
Outreach**

Winter 2026:

Tree felling

**Spring/Summer
2026:**

Construction



Contact Information



Theresa Bridges, Project Manager
City of Ann Arbor – Engineering
TBridges@a2gov.org
(734) 794-6410 ext. 43672

Hubbel, Roth, & Clark, Inc.
Engineering, Survey, Landscape Architecture

Jennifer Lawson, Water Quality Manager
City of Ann Arbor – Systems Planning

Jasmine Isaac-Ofori, Community Engagement Specialist
City of Ann Arbor – Systems Planning



**ANN ARBOR
WATER**

Thank You!

Liberty Street Creek Restoration