

Smith Drain Public Informational Meeting



Richland Township Administrative Offices

August 31, 2023, 6:00 p.m.

Brian J. Wendling

Saginaw County Public Works Commissioner

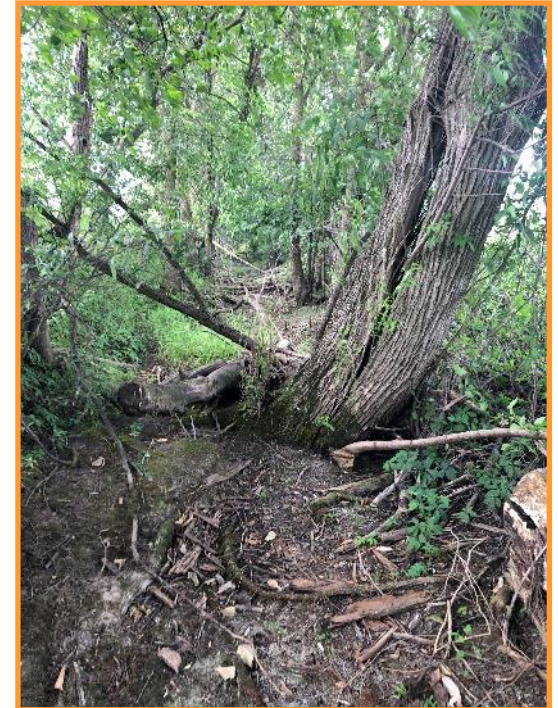
Smith Drain

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PURPOSE OF PUBLIC INFORMATIONAL MEETING:

- Review the known existing issues along the drain
- Inform landowners within the drainage district of proposed improvements
- Receive input and comments from the landowners on the proposed plan



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DRAIN BACKGROUND:

- Established as a county drain in 1905
- Last maintenance project performed in 1952
- Current Landowner Petition
 - Dated June 28, 2022
 - Received August 12, 2022
- Board of Determination
 - Held on December 8, 2022
 - Found the project to be necessary



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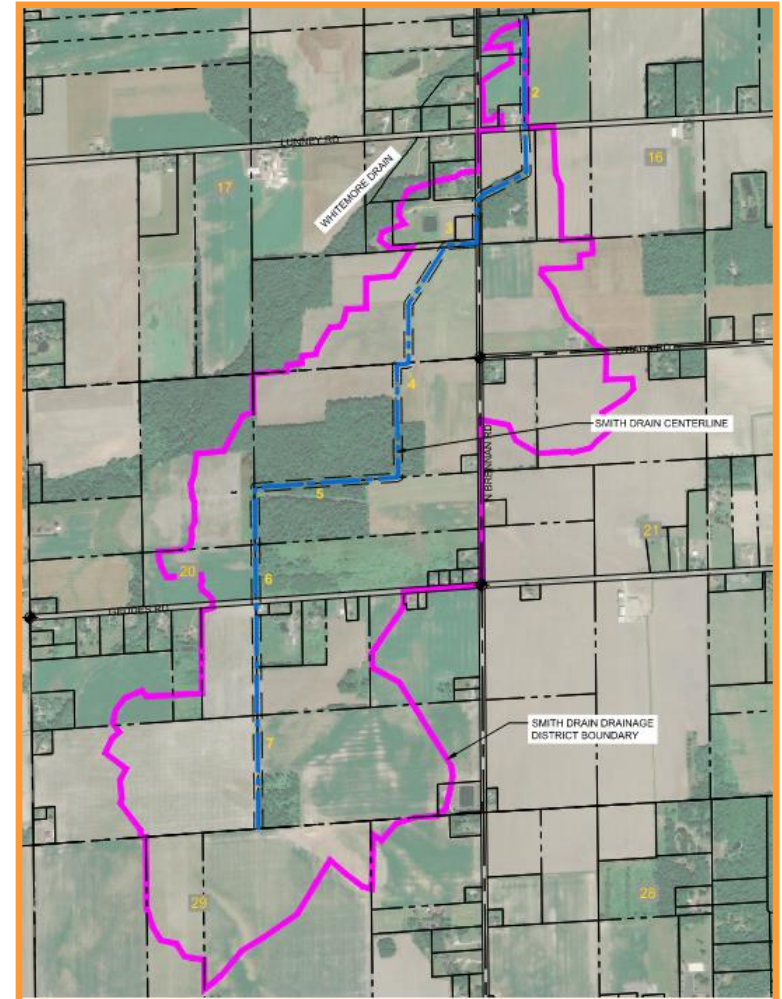


DRAINAGE DISTRICT:

- Approximately 610 acres
- Contains 44 parcels
- Located entirely in Richland Township, Saginaw County

SURVEY:

- Surveyed approximately 2.2 miles of open drain
- Collected flowline elevations approximately every 50 feet
- Collected cross sections approximately every 200 feet
- Collected topography within the drain right of way
- Collected elevations of all culvert crossings



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DESIGN:

- **10-Year Design Storm**
 - Saginaw County Standard Level of Service
 - 1.43 inches of rain in 1 hour
 - 3.05 inches of rain in 24 hours

CHANNEL IMPROVEMENTS:

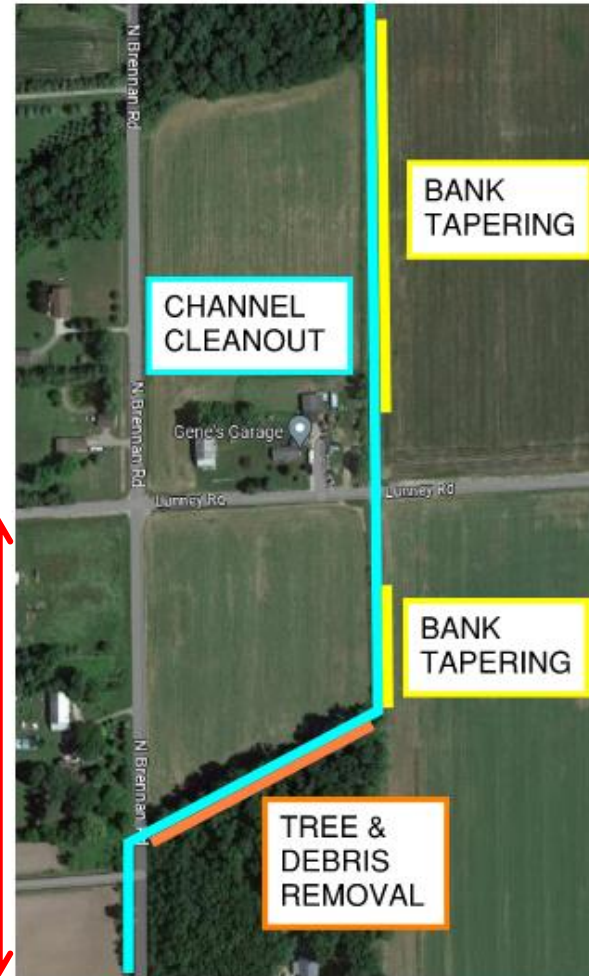
- **Debris removal**
- **Erosion repair and bank tapering**
- **Tree removal**
- **Channel cleanout**



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CHANNEL IMPROVEMENTS:



Contractor to work from east side of Drain

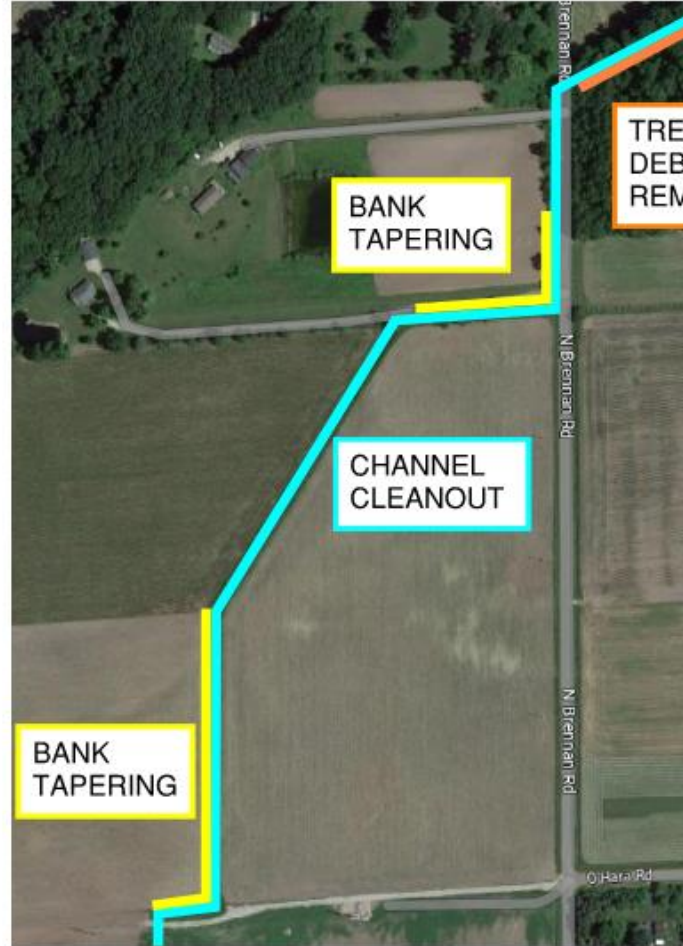
Contractor to work from west side of Drain

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CHANNEL IMPROVEMENTS:

Contractor to work from west side of Drain



Contractor to work from south and east side of Drain

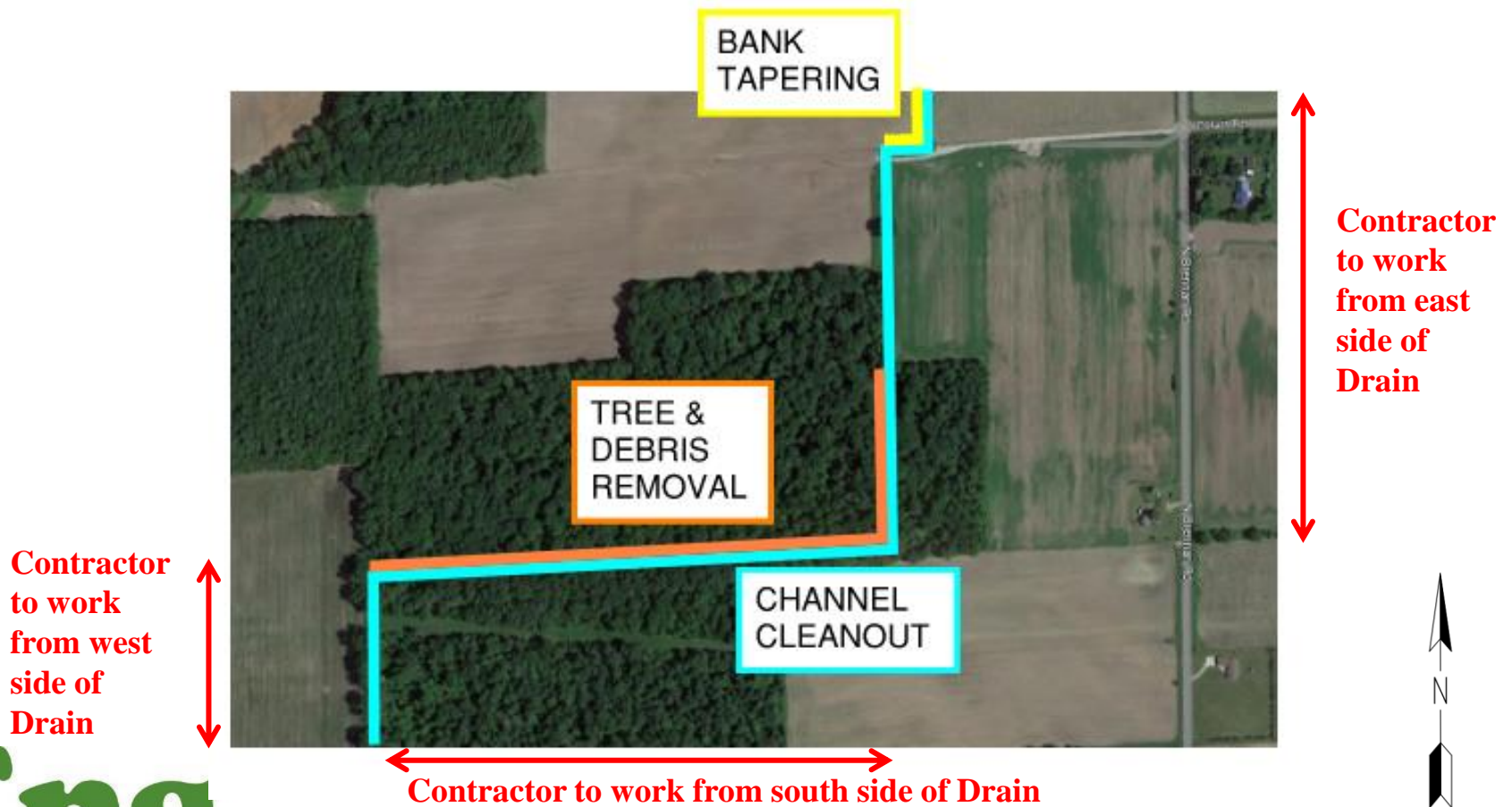




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CHANNEL IMPROVEMENTS:

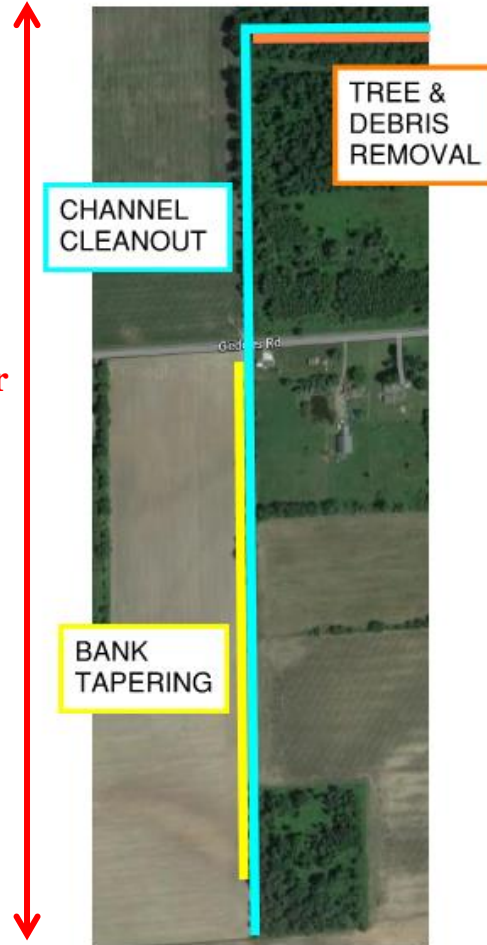




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CHANNEL IMPROVEMENTS:

**Contractor
to work
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side of
Drain**

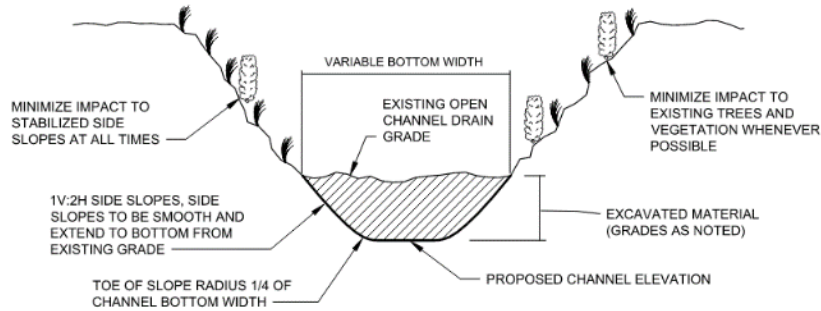




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Existing Condition



OPEN DRAIN CLEANOUT DETAIL
NO SCALE

Proposed Condition

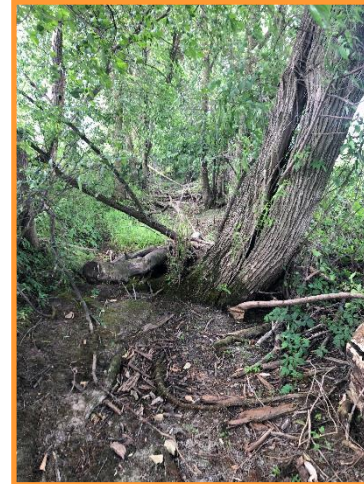




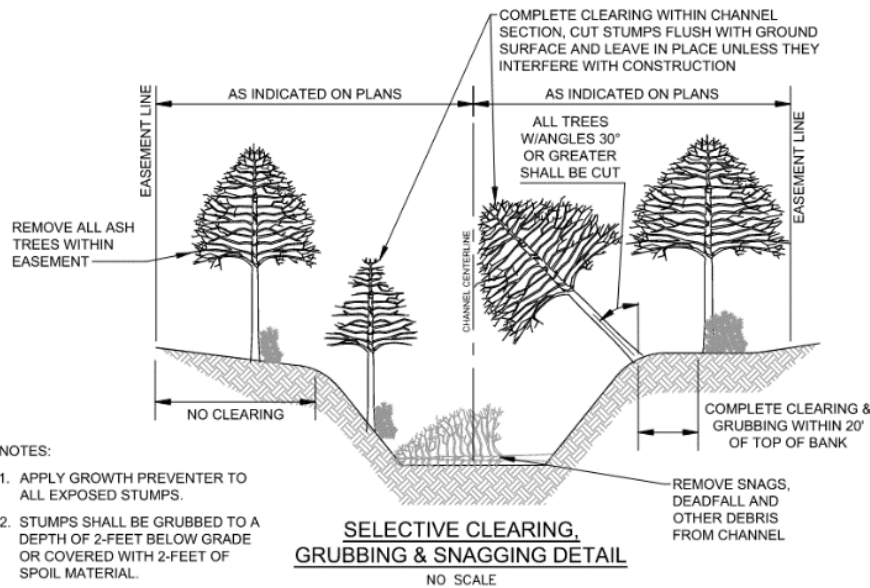
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Existing Condition



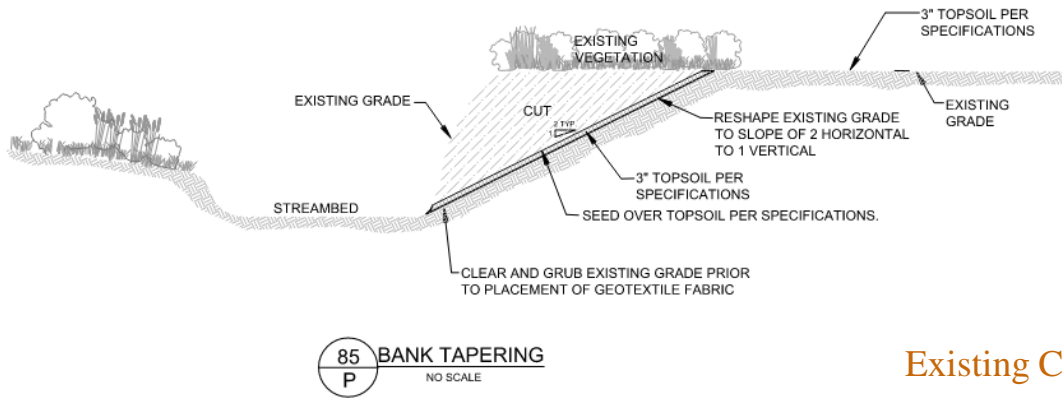
Proposed Condition



NOTES:

1. APPLY GROWTH PREVENTER TO ALL EXPOSED STUMPS.
2. STUMPS SHALL BE GRUBBED TO A DEPTH OF 2- FEET BELOW GRADE OR COVERED WITH 2- FEET OF SPOIL MATERIAL.

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Existing Condition



Proposed Condition



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DRAIN CROSSINGS:

- Total of 7 drain crossings
 - 3 Roads (Lunney, Brennan, Geddes)
 - 3 Drive crossings
 - 1 Field crossing
- Measured length, elevation and size of all drain crossings
- Assessed condition of crossings and headwalls



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CLEANUP AND RESTORATION:

- **Trees and brush within the drain Right-of-Way will be removed as needed for construction**
- **All spoils will be leveled as applicable along the drain within the drain right of way**
- **Any disturbed lawn or roadside ditch areas will be restored with a minimum of 4 inches of topsoil, mulch, and seed**
- **All driveways and roads will be restored in kind**

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TENTATIVE PROJECT SCHEDULE:

- **Day of Review of Drainage District Boundary**
 - Completed August 30, 2018
- **Bid Project**
 - Bid opening to be September 14, 2023 @ 10 a.m. at the Office of the Public Works Commissioner
- **Day of Review of Apportionments (Notice will be mailed)**
 - Early October 2023
- **Contractor Notice to Proceed**
 - Beginning of January 2024
- **Completion**
 - October 15, 2024

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PROJECT COST:

- **Estimated Cost: \$225,000.00 (final project cost determined by Contractor's bid)**
 - **Open channel improvements**
 - **Culvert cleaning and replacements**
 - **Erosion repair**
 - **Cleanup and restoration**
 - **Utility coordination**
 - **Engineering, survey, and design**
 - **Permitting fees**
 - **Financing fees**
 - **Construction staking and inspection**
 - **Contingencies**

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QUESTIONS OR COMMENTS?