

New Tamarack Drain

Public Informational Meeting

James Township Hall

February 21, 2024

6:00 PM



Brian J. Wendling

Saginaw County Public Works Commissioner

Purpose of Meeting



- Inform landowners adjacent to drain of proposed improvements
- Public Works Commissioner to receive input and comments from landowners on the proposed plan

Presentation Agenda

- Drain Background
- Drainage District
- Survey and Design
- Open Channel Improvements
- Drain Crossing Improvements
- Cleanup and Restoration
- Tentative Project Schedule
- Preliminary Estimate of Cost
- Questions and Comments

Drain Background

- The New Tamarack Drain was established in 1929
- Maintenance projected completed in 1960
- Branch No. 1 added in 1972
- Swan Creek Road Branch added in 1979
- Recent maintenance on Branch No. 1

Drain Background

- Where is the New Tamarack Drain?
 - Main Drain
 - Outlet is in the Shiawassee River approx. 4,500 feet east of S Miller Road
 - Upper end located at Van Wormer Road approx. 2,600 feet north of Swan Creek Road
 - Branch No. 1
 - Along south side of Trinklein Road ending near the intersection of River Road and McDonagh Drive
 - Swan Creek Road Branch
 - Along north side of road West of main drain
 - Total length of approximately 5 Miles

THOMAS TOWNSHIP
SWAN CREEK TOWNSHIP

EDERER RD

THOMAS TOWNSHIP
JAMES TOWNSHIP

BIRCHVIEW DR

VAN WORMER RD

JARABEC RD

SAGINAW VALLEY RAIL TRL

TRINKLEIN RD

BRANCH NO. 1

S RIVER RD

WEIGL RD

SWAN CREEK
RD BRANCH

NEW TAMARACK DRAIN

SWAN CREEK RD

HART RD

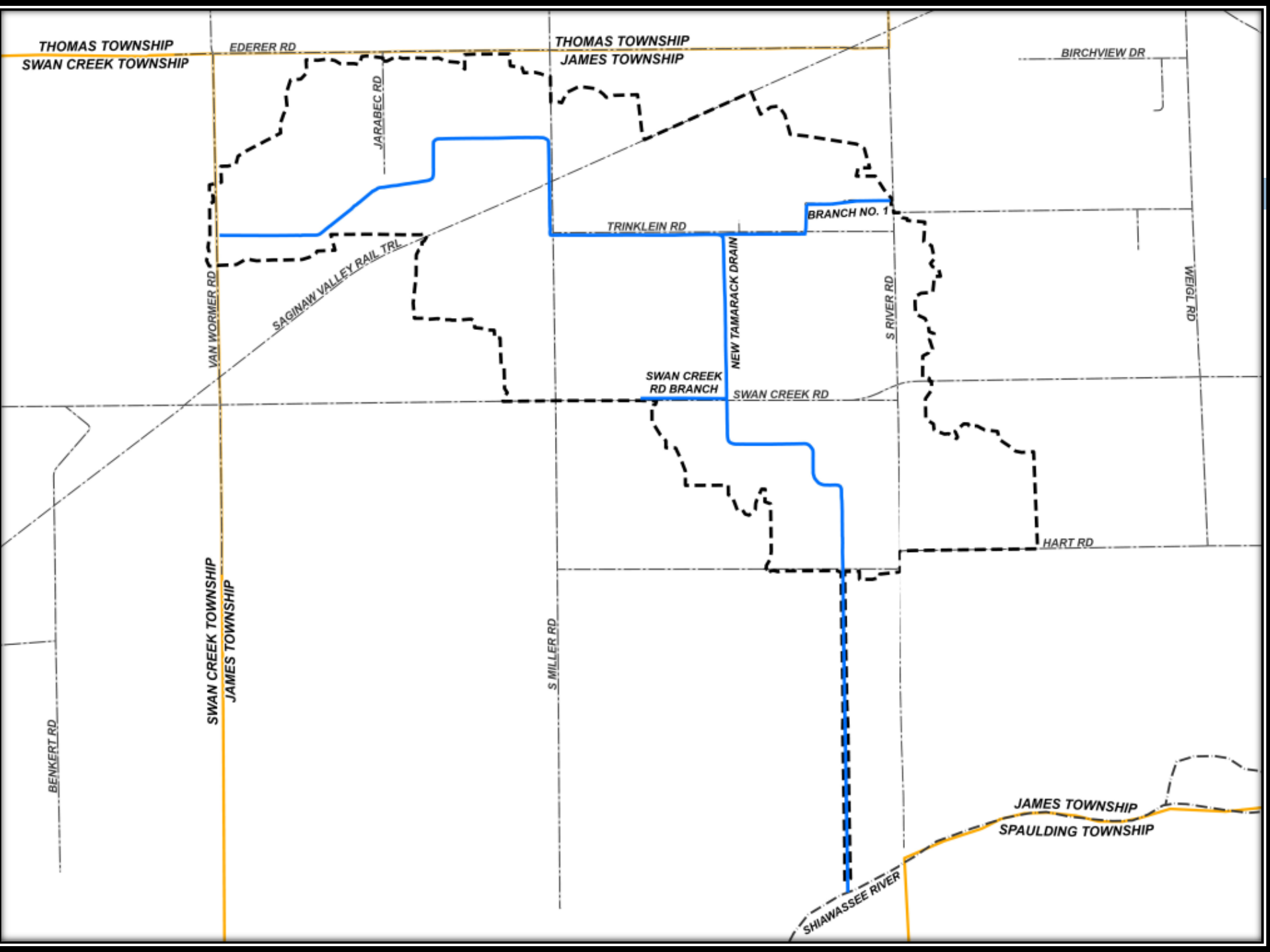
BENKERT RD

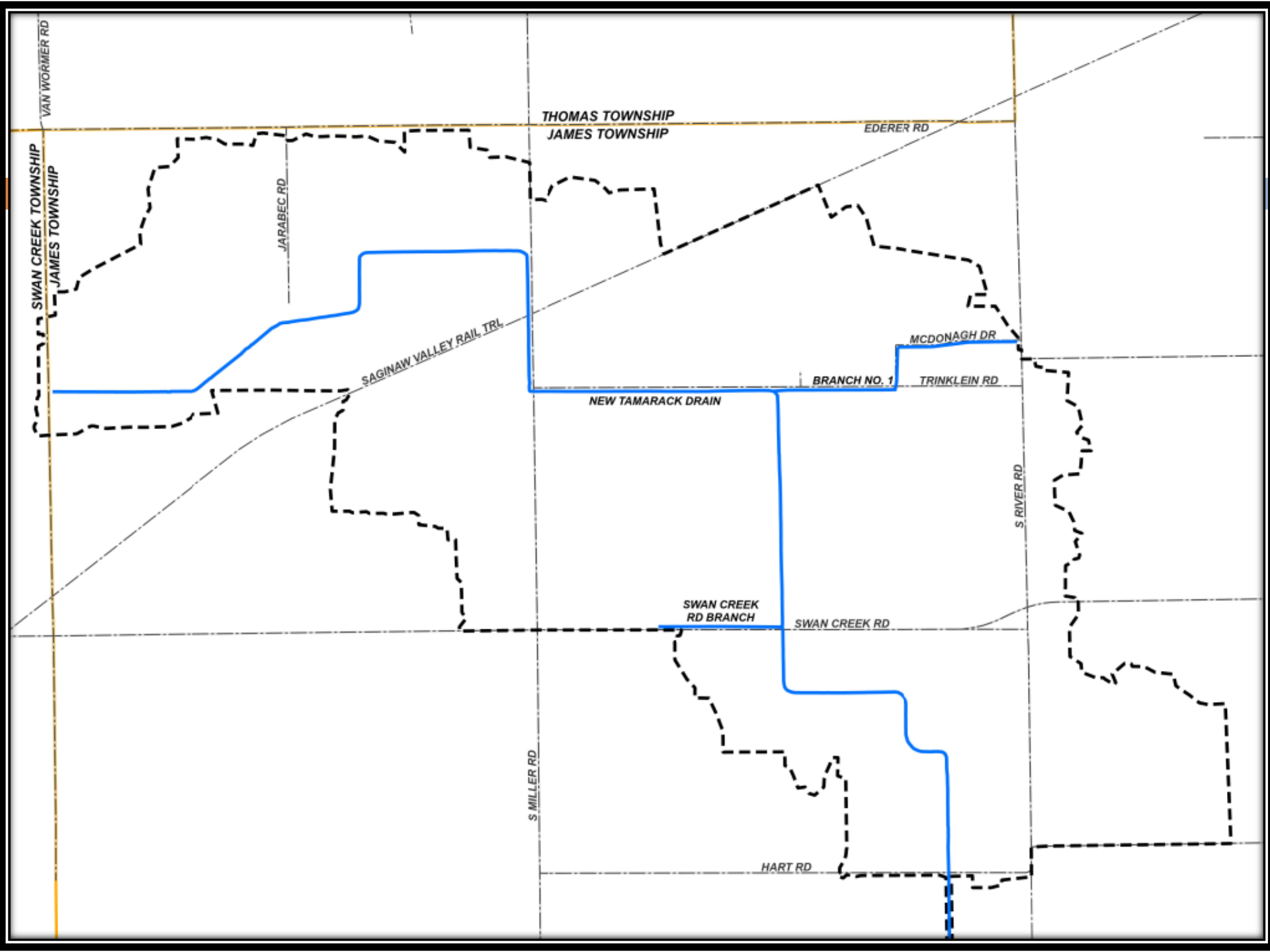
SWAN CREEK TOWNSHIP
JAMES TOWNSHIP

S MILLER RD

JAMES TOWNSHIP
SPAULDING TOWNSHIP

SHAWASSEE RIVER





Drain Background

- Current Landowner Petition
 - Dated January 12, 2023
- Landowner Testimony – Board of Determination Meeting held April 12, 2023
 - Complaints stagnant water and sediment in drain
 - Trees and brush in drain

Drainage District

- What is the drainage district?
 - Lands that contribute storm water to drain
 - Drainage District serves as the special assessment district
 - New Tamarack Drain Drainage District includes:
 - James Township & Swan Creek Township
 - Saginaw County
 - Landowners – Approximately 305 parcels
 - 1,235 Acres +/-

THOMAS TOWNSHIP
SWAN CREEK TOWNSHIP

EDERER RD

THOMAS TOWNSHIP
JAMES TOWNSHIP

BIRCHVIEW DR

VAN WORMER RD

JARABEC RD

SAGINAW VALLEY RAIL TRL

TRINKLEIN RD

BRANCH NO. 1

NEW TAMARACK DRAIN

S RIVER RD

WEIGL RD

SWAN CREEK
RD BRANCH

SWAN CREEK RD

HART RD

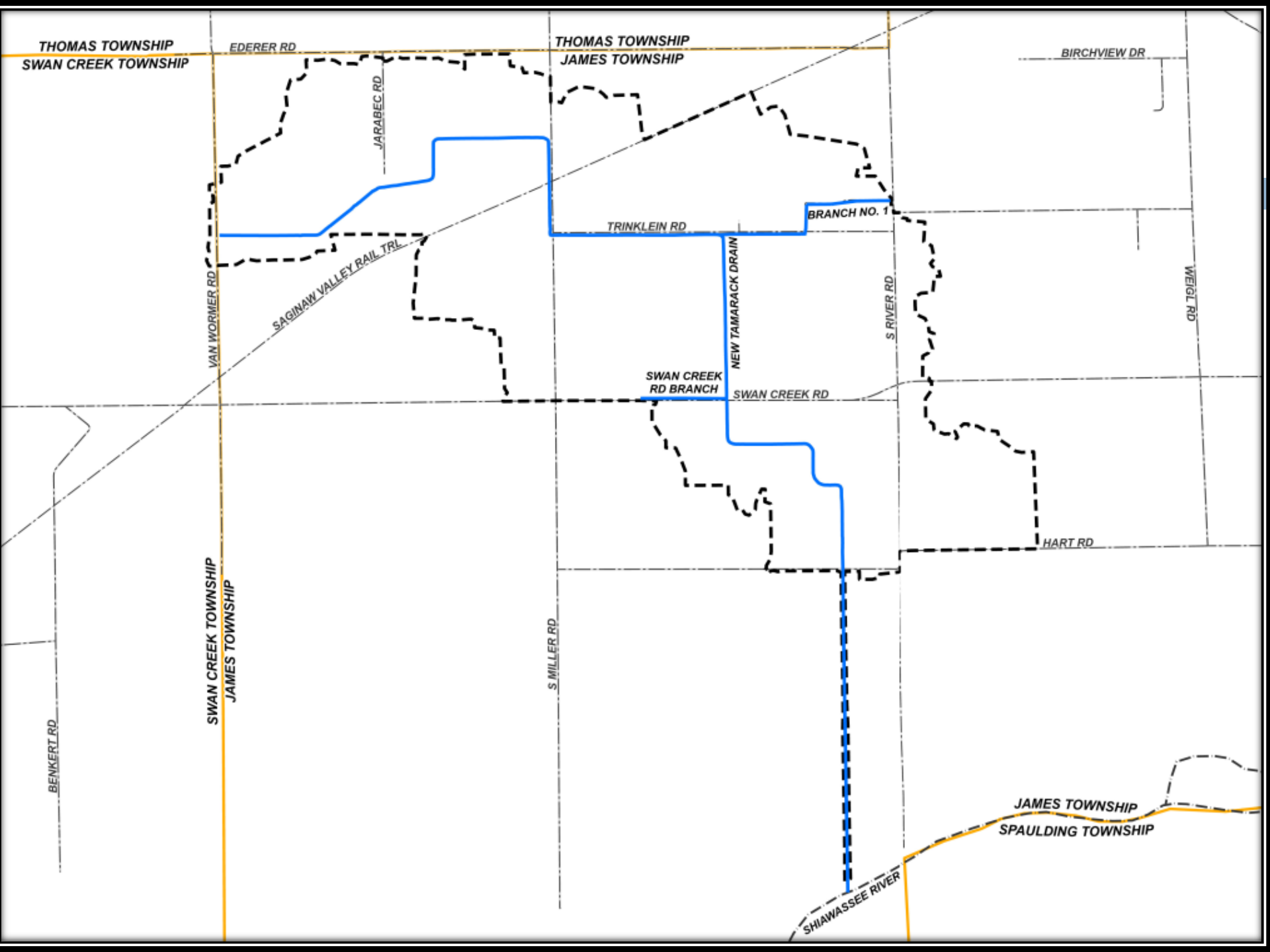
BENKERT RD

SWAN CREEK TOWNSHIP
JAMES TOWNSHIP

S MILLER RD

JAMES TOWNSHIP
SPAULDING TOWNSHIP

SHAWASSEE RIVER



Survey, Engineering & Design

- Survey of drain
- Draft survey onto plans
- Engineering field review
- Existing utility research
- Hydrology and hydraulic calculations
- Analyze alternatives
- Final design of plans

Survey

- Surveyed approx. 5 miles of open drain
 - Collected flowline elevations every 250 feet
 - Collected cross sections at minimum every 500 feet
 - Collected topography within 50 feet of the drain centerline
 - Collected elevations of all culvert crossings and drain enclosures

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



- Channel Cleanout
 - Sediment is removed from drain bottom only
- Site Clearing
 - Shrubs, trees, and brush are removed from the drain site

HART RD

Main Drain

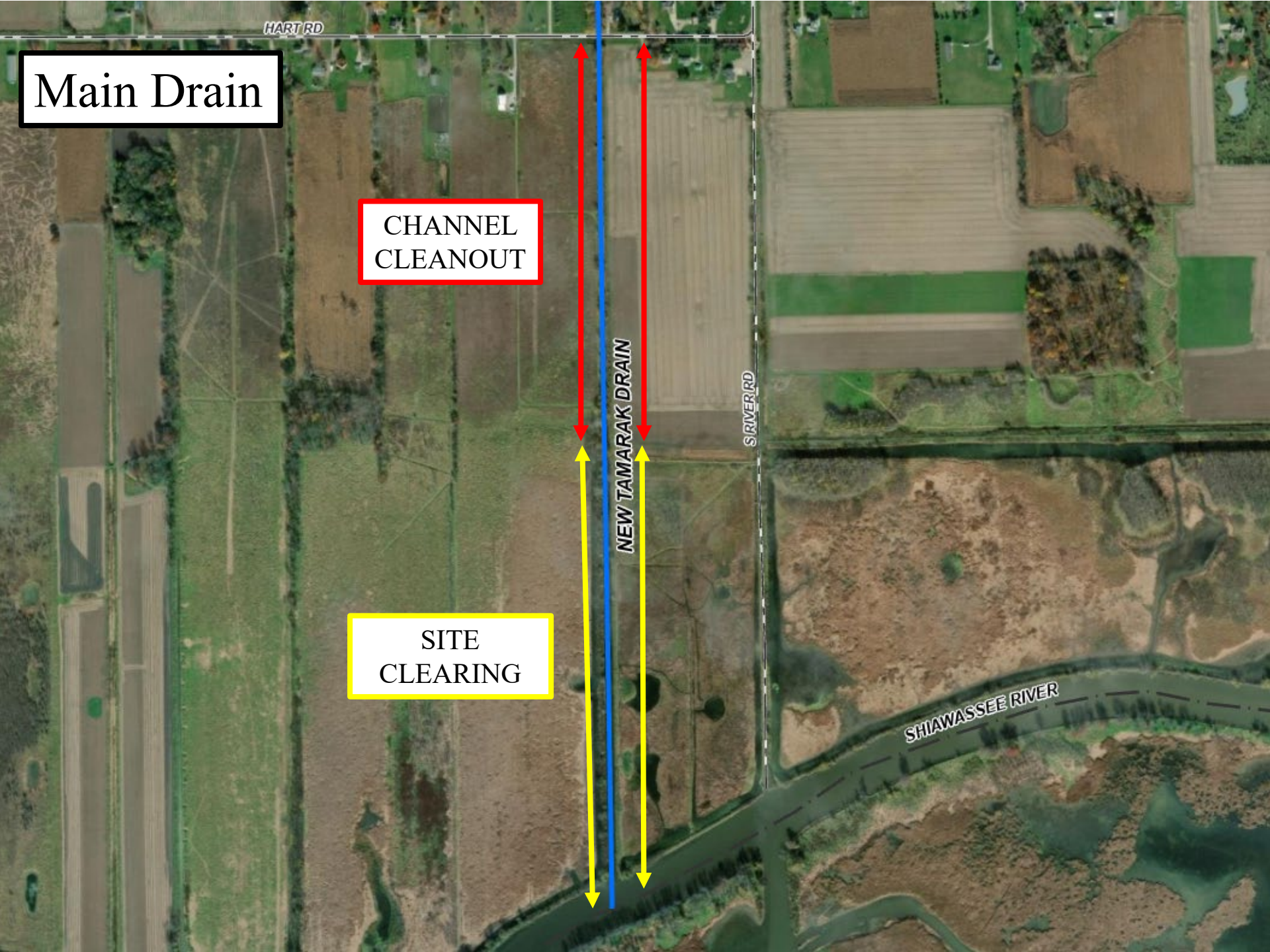
CHANNEL
CLEANOUT

SITE
CLEARING

NEW TAMARAK DRAIN

S RIVER RD

SHIAWASSEE RIVER



Main Drain

SWAN CREEK RD BRANCH OF THE NEW TAMARACK DRAIN

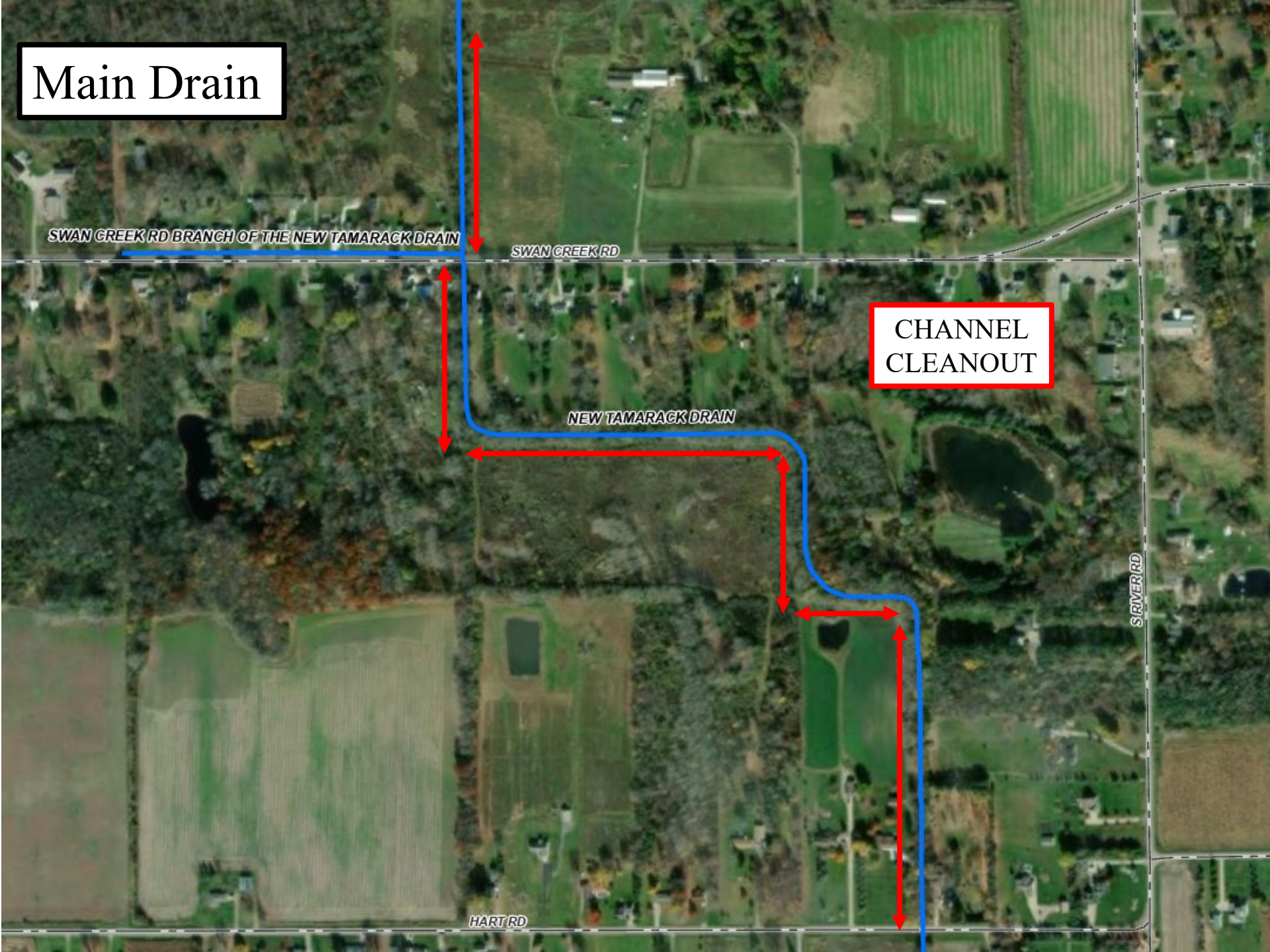
SWAN CREEK RD

NEW TAMARACK DRAIN

HART RD

S RIVER RD

CHANNEL
CLEANOUT



Swan Creek Rd Branch

SWAN CREEK RD BRANCH OF THE NEW TAMARACK DRAIN

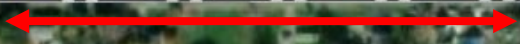
SWAN CREEK RD

NEW TAMARACK DRAIN

S RIVER RD

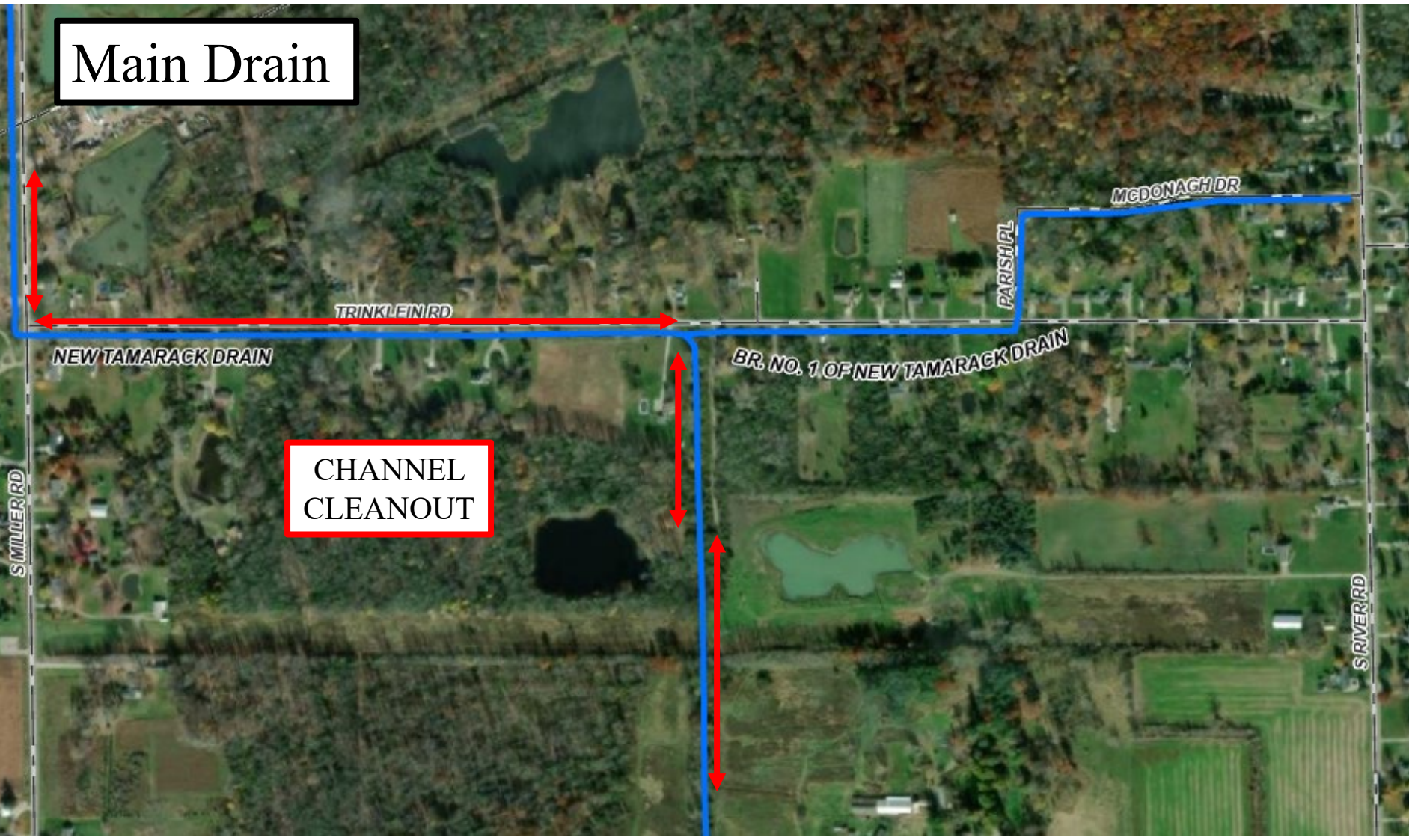
HART RD

CHANNEL CLEANOUT



Main Drain

CHANNEL
CLEANOUT



TRINKLEIN RD

NEW TAMARACK DRAIN

BR. NO. 1 OF NEW TAMARACK DRAIN

MCDONACH DR

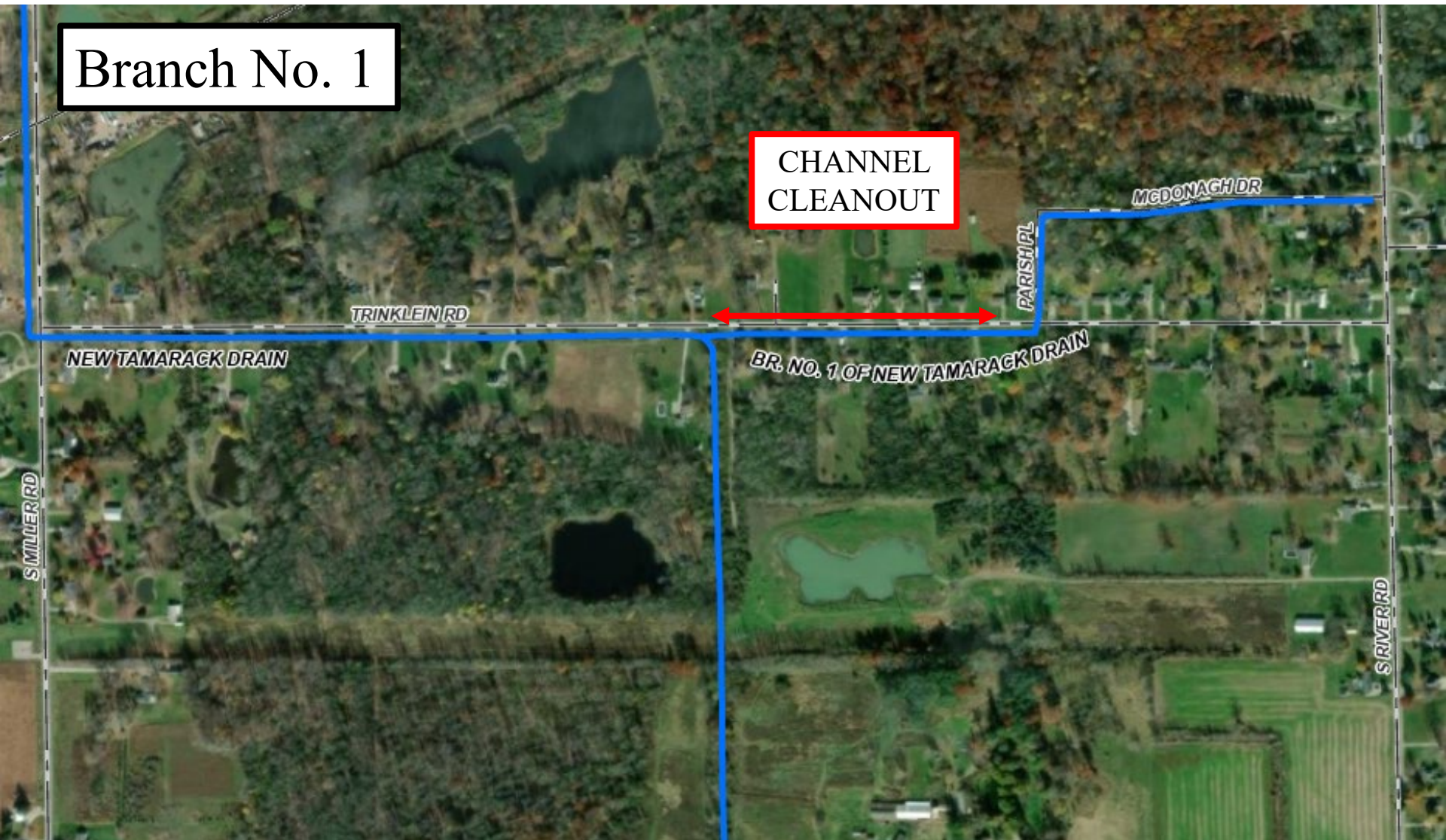
PARISH PL

S MILLER RD

S RIVER RD

Branch No. 1

CHANNEL
CLEANOUT



TRINKLEIN RD

NEW TAMARACK DRAIN

S MILLER RD

BR. NO. 1 OF NEW TAMARACK DRAIN

PARIS PL

MCDONAGH DR

S RIVER RD

Main Drain

CHANNEL
CLEANOUT

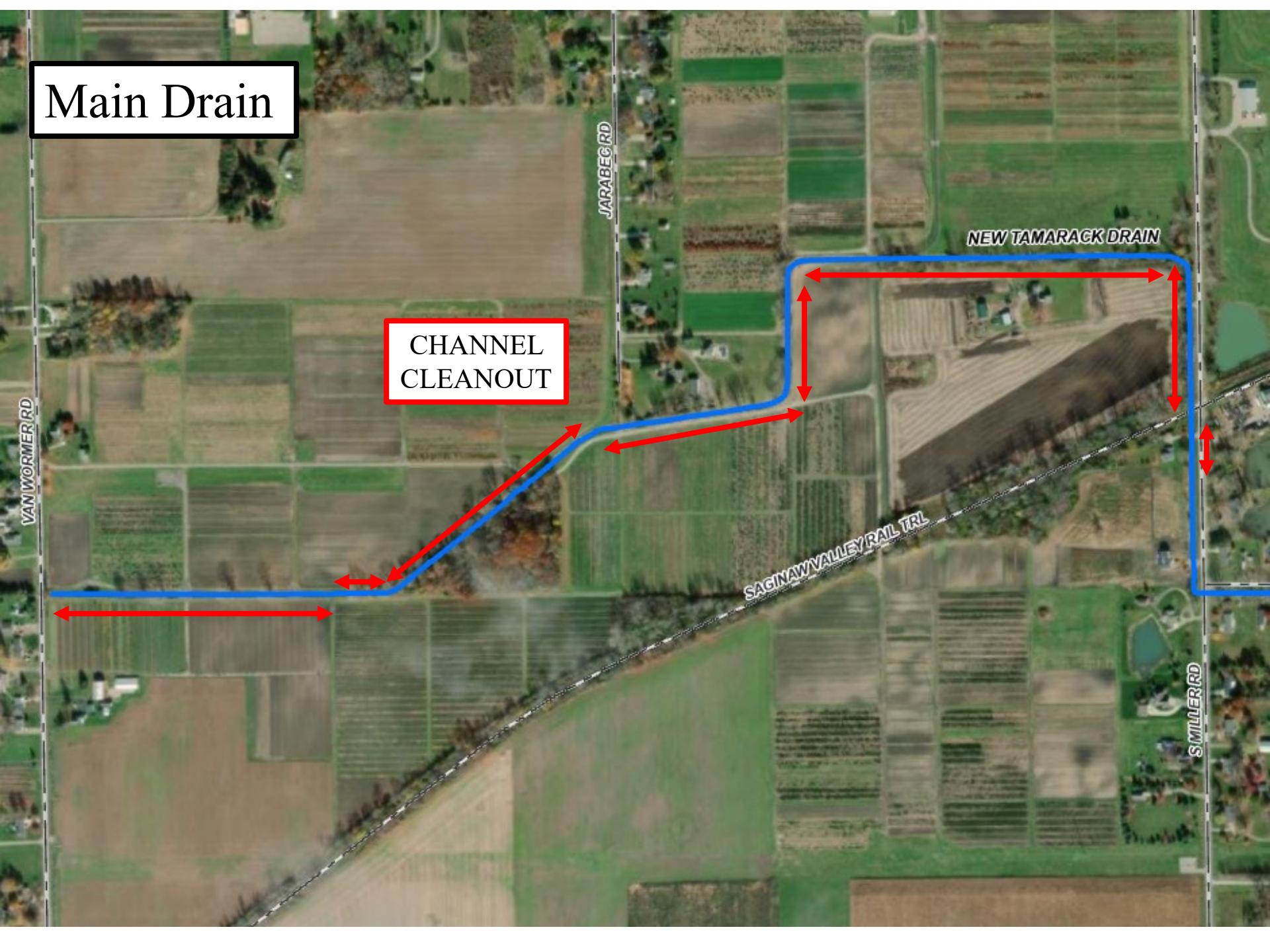
NEW TAMARACK DRAIN

VAN WORMER RD

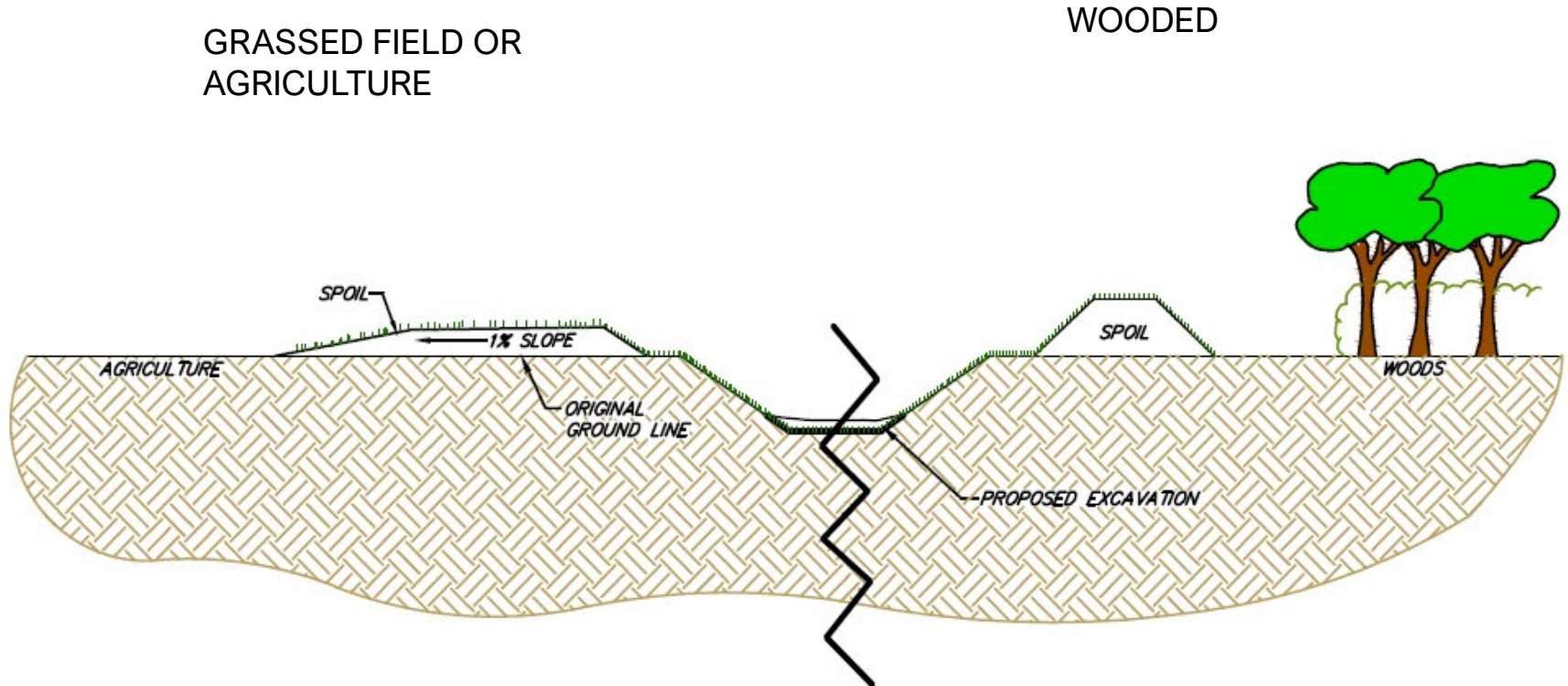
JARABEC RD

SAGINAW VALLEY RAIL TRL

S MILLER RD

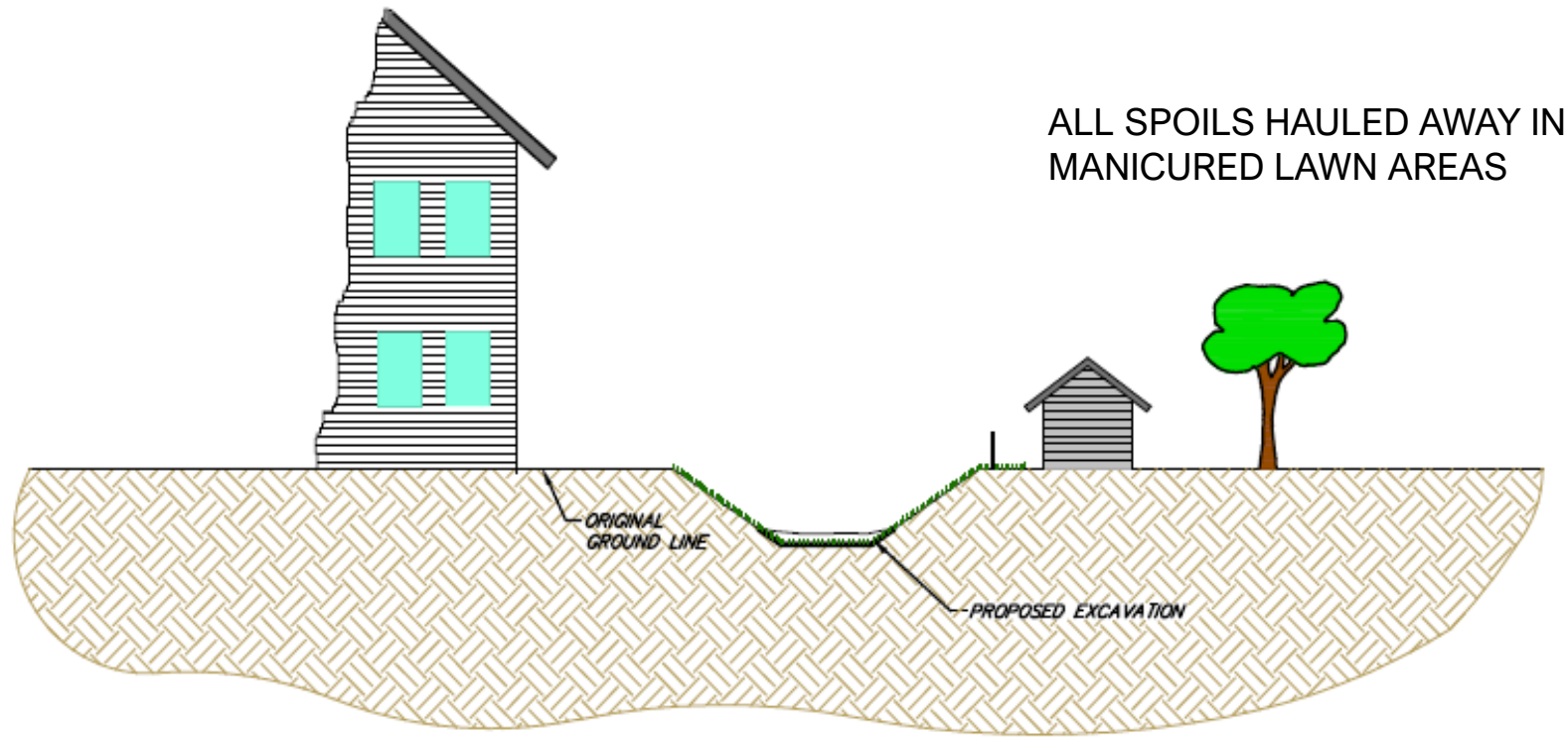


Typical Channel Cleanout Detail Wooded/Agricultural Areas



OPENINGS WILL BE LEFT IN
SPOILS PILES AS NEEDED FOR
DRAINAGE

Typical Channel Cleanout Detail Residential Areas



Other Channel Improvements

- Erosion Control

- Bank stabilization – riprap and fabric
- Spillways – riprap and grass
- Seeding and mulching

- Tile outlets

- Riprap splash pads
- Repair outlet if in poor condition
- Maintain outlet if in good condition

Limited Access

- Fences, Sheds, Other items in Right-of-Way
 - Landowners to remove all fences, landscaping, or other items within the drain right-of-way in advance of construction
 - Any items left within the drain right-of-way will be removed and stockpiled as needed for construction
 - Reinstallation of removed fencing and landscaping only allowed outside of the drain right-of-way and is the responsibility of the landowner

Drain Crossings

- Total of 48 drain crossings
 - 43 Private crossings
 - Drives, Footbridges, Yard enclosure
 - 5 Road crossings
 - Hart Road
 - Swan Creek Road
 - Miller Road
 - County of Saginaw (Rail Trail)
 - Van Wormer Road

Drain Crossings

- Measured length, elevation and size of all drain crossings
- Assessed condition of crossings and headwalls
- Replacement criteria
 - Inadequately sized
 - Crossing is set too high in the drain, backing up water flow

Drain Crossings

- The following slides are a general listing of the work being completed at each drain crossing.
- If you would like details on your individual crossing such as size, length, or material, please speak to us at the end of the meeting.

Drain Crossings

■ Crossings to be Replaced with New Culvert

- No. 5 – Kolhagen, J. & K.
- No. 6 – Persons, A. & D.
- No. 7 – Nestell, T. & P. et al.
- No. 8 – Thom, J. & C.
- No. 9 – Weeks, J.
- No. 10 – Dankert, J.
- No. 11 – Revard, M. & C.
- No. 12 – Revard Revocable Trust
- No. 13 – Brown, A. & J.
- No. 14 – Rousseau, T.
- No. 19 – Bruns Farm Inc.
- No. 23 – Kluck, T. & K.
- No. 42 – Kolhagen, J. & K.
- No. 44 – Cass, G.
- No. 45 – Hill, R. Jr. & P.
- No. 46 – Banda, L.
- No. 47 – Banda, L.
- No. 48 – Montgomery, K.

Drain Crossings

■ Crossings to be Cleaned Out

- No. 1 – Hart Road
- No. 3 – Swan Creek Road
- No. 15 – Miller Road
- No. 16 – Howey, G II & Howey, A.
- No. 17 – Alfano, S. & P.
- No. 18 – County of Saginaw
- No. 20 – Kluck, T. & K.
- No. 21 – Kluck, T. & K.
- No. 22 – Kluck, T. & K.
- No. 24 – Kluck, T. & K.
- No. 26 – Kluck Properties LLC
- No. 27 – Van Wormer Road
- No. 28 – Gill, H.
- No. 29 – Mitchell, K. – Ruschke, R.
- No. 30 – Klein, K.
- No. 32 – Powell, J. & B.
- No. 33 – Schirmer, S. & L.
- No. 34 – Bronz, G. & P.
- No. 35 – Zuckschwerdt, G. & R.
- No. 36 – Stutler, W.
- No. 37 – Hart Road
- No. 38 – Hill, M. et al.
- No. 39 – Knapp, D. & M.
- No. 40 – Hill, M.
- No. 41 – Stuller, W.

Drain Crossings

- Crossings to be Removed Only
 - No. 2 – Buckbee, F. and Schmidt, M. & L.
 - No. 4 – Consumers Power Company
- Crossings to be Reset
 - No. 25 – Kluck Properties LLC
- Crossings to be Repaired
 - No. 31 – Powell, J. & B.

Cleanup and Restoration

- All spoils along lawn areas will be hauled.
- All disturbed lawn areas will be landscape graded and seeded with a minimum 4" of topsoil.
- All trees removed in lawn areas will be completely removed from the site unless the landowner requests to keep the wood.
- Stumps from cut trees in mowed areas will be ground below the surface, covered with topsoil, and seeded.

Cleanup and Restoration

- Small trees and shrubs will be removed as needed for construction
- If needed, mailboxes will be temporarily relocated and reinstalled as needed for construction
- All driveways and county roads shall be restored in kind
- Local traffic shall be maintained at all times

Tentative Project Schedule

- Bid Project – End of April
- Day of Review of Apportionment – Following Bidding - May 2024
- Contractor Notice to Proceed – Late Summer/Fall 2024
- Substantial Completion – October 2025
- A formal Notice will be mailed with date for day of review

Project Cost

- Estimated Cost: \$1,700,000
 - Includes:
 - Open channel improvements
 - Crossing repairs and replacements
 - Erosion control
 - Cleanup and restoration
 - Utility coordination
 - Engineering, survey and design
 - Financing fees
 - Construction staking and inspection
 - Contingencies
 - Final project cost determined by Contractor's bid

Questions or Comments?

