

Elmwood Township #1 Drain Board of Determination Meeting



Engineering Presentation

Brian J. Cenci, P.E. – Sr. Project Mngr.
Director of MI County Drain Services
GEI Consultants of Michigan, P.C.

Elmwood Township #1 Drain Board of Determination

November 21, 2024

7:00 p.m.

*Leelanau County Board Mtg. Room
8527 E. Government Center Drive
Suttons Bay, MI 49682*

**Leelanau County Drain Commissioner
Steve Christiansen**



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PURPOSE OF ENGINEERING REVIEW:

- A Municipal Township Board (Elmwood Township) filed an Application and then a Petition to the Leelanau County Drain Commissioner for the improvement of the existing County Drain to provide flooding and drainage relief.
- Drain Commissioner required to hire a Licensed Professional Engineer to Review the existing District Boundary (i.e. the drainage area / watershed) and determine the proposed District Boundary, if changes were necessary.
- Field Review the existing Elmwood Township Drain #1 drainage system and existing drain routes.
- Identify any potential drainage problems or issues that may necessitate maintenance and improvement of the existing County Drain.
- Present a Preliminary Engineering Summary of findings at a Board of Determination
- WHAT IS NOT REVIEWED TO THIS POINT: No preliminary design, no scope, no proposed “solutions” or “options, no estimated costs, etc....WHY? There is no ‘project’ until petition is necessary as determined by the BOD

Township Board for the Charter Township of Elmwood
RESOLUTION AUTHORIZING A PETITION FOR THE MAINTENANCE AND
IMPROVEMENT OF A COUNTY DRAIN
ELMWOOD TOWNSHIP DRAIN #1

At the regularly scheduled meeting of the Township Board for the Charter Township of Elmwood,
County of Leelanau, State of Michigan, held on the 1st day of September, 2024

PRESENT: Chris Mikowski, Trevor Luskner, Kyle Demas, Jeff Shaw,
Dave Dargo, Jordan Gallagher, and Connie Preston

ABSENT: None

The following resolution was offered by Board member Connie Preston, and seconded by Board
member Dave Dargo:

WHEREAS, Elmwood Township is a Charter Township ("Township") and is a Michigan
municipal entity and the Township is acting through its legislative body, the Elmwood Township Board;
and

WHEREAS, the Elmwood Township Drain #1 ("Drain") is an existing county drain located in
both Elmwood Township and Traverse City, County of Leelanau, and has been established pursuant to
the Michigan Drain Code, Public Act 40 of 1956, as amended (the "Drain Code"); and

WHEREAS, Section 191 of the Drain Code authorizes a municipal township board to file a
petition with the County Drain Commissioner if the maintenance and improvement of an existing county
drain is necessary for the public health, convenience or welfare of such municipality and the municipality
will be liable for an assessment at-large for a percentage of the costs for the maintenance and
improvement of the proposed drain project, pursuant to Chapter 8 of Public Act 40 of 1956, as amended;
and

WHEREAS, the maintenance and improvement of the Drain is necessary to address: Flooding
and drainage issues near Carter Rd. & M-27, locations along Carter Rd. and subsequent drainage issues
within areas of the proposed drainage district.

NOW, THEREFORE BE IT RESOLVED THAT, the Township Board of Elmwood does
authorize that a petition for maintenance and improvement be made in the name of the Township for the
Elmwood Township Drain #1 to the Leelanau County Drain Commissioner.

BE IT FURTHER RESOLVED THAT, Jeff Shaw, being the Supervisor of the Township, is
authorized to execute a Petition for the Maintenance and Improvement of the Elmwood Township Drain
#1.

BE IT FURTHER RESOLVED THAT, the Township Clerk or Board Secretary shall forward to
the Leelanau County Drain Commissioner a copy of this Resolution and will forward a Petition for
the Maintenance and Improvement of the Elmwood Township Drain #1.

ADOPTED: YEAS: Trevor Luskner, Mikowski, Preston, Gallagher, Dargo, and Shaw

NAYS: None

The Resolution was declared and adopted.

TOWNSHIP BOARD FOR THE
CHARTER TOWNSHIP OF ELMWOOD

Date: Sept 9, 2024
By: Jeff Shaw

He: Supervisor

As Authorized by its governing body on:
September 9, 2024



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WORK PERFORMED:

- Obtain & analyze existing record information (County maps, building records, aerials, topographic contour information, LiDar data, County Road Commission records, MDOT records, existing land use information, soils info, wetland data, etc.)
- Determine the Elmwood Township Drain #1 Drainage District boundary through 1-foot interval data for County topographic contour information, site inspections and survey work to understand stormwater inputs into the drain system and analyze direction of flow for stormwater runoff
- Reviewed the on-site flooding and drainage issues near Carter Rd. & M-22, locations along Carter Rd. and subsequent drainage issues within areas of the proposed drainage district necessitating the petition.
- Present preliminary findings at a Board of Determination

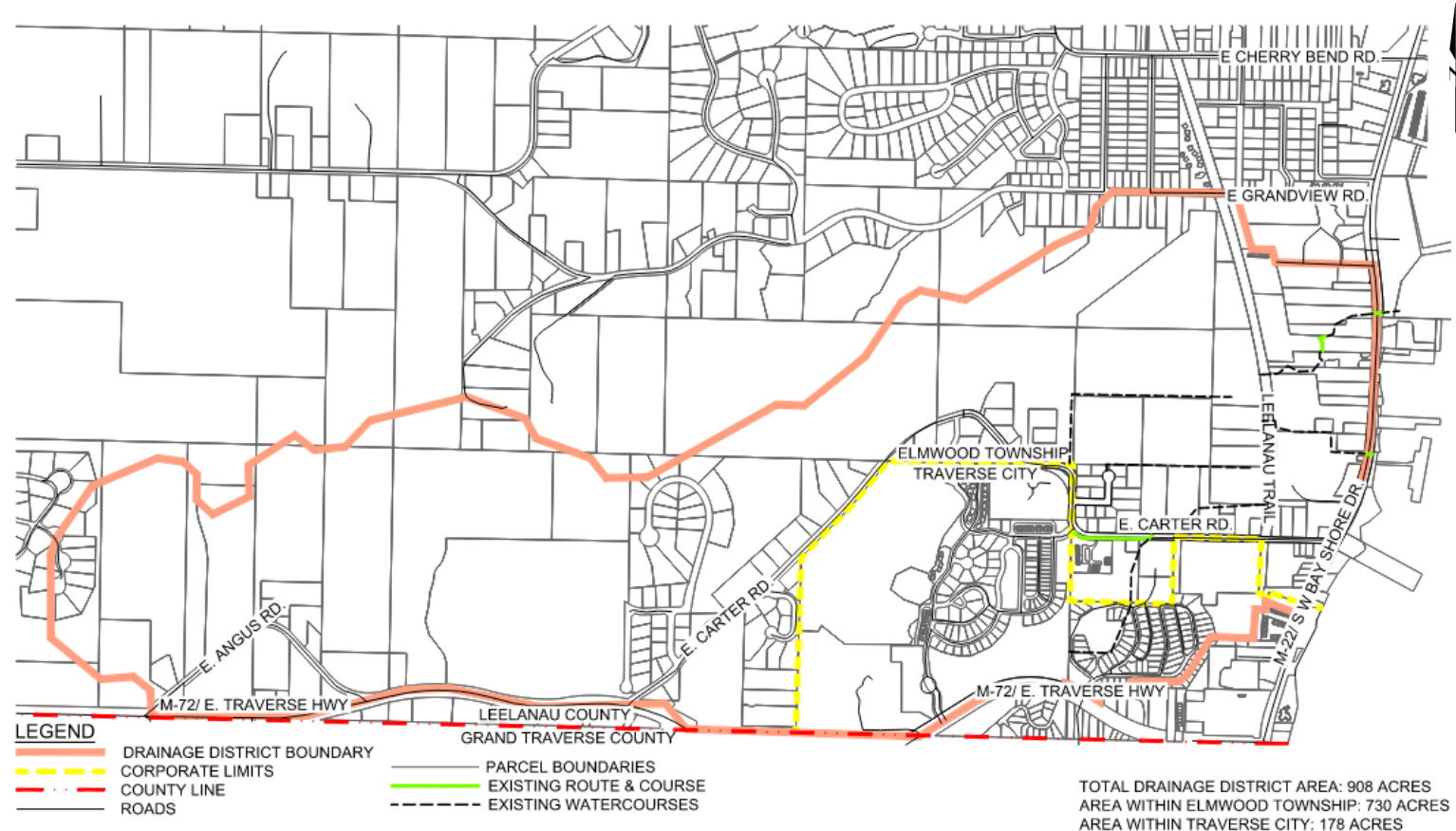


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PROPOSED DRAINAGE DISTRICT BOUNDARY:

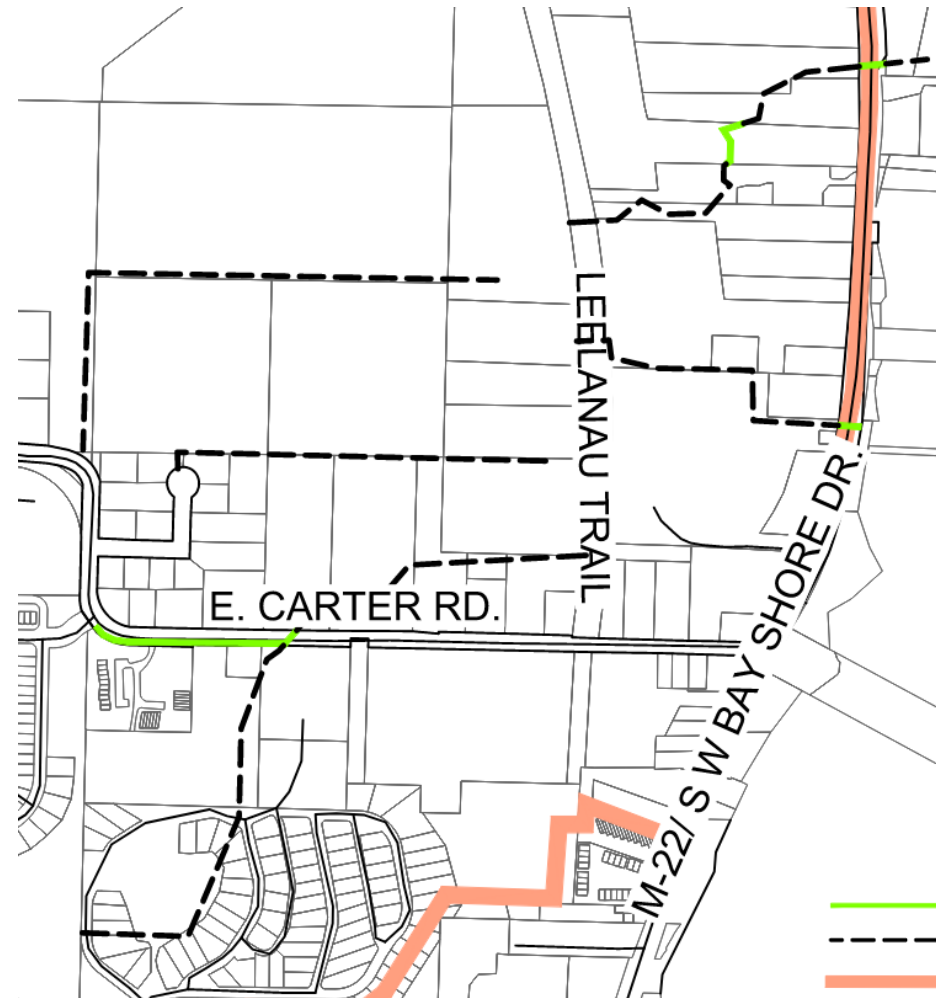
- Proposed Drainage District Boundary is determined based on topographic contour information and field observations
- Total Size = 908 acres
- # properties = +/- 500
- Acres in City = 178 acres
- Acres in Twp. = 730 acres
- At-Large Entities (3):
Elmwood Twp, County for County Roads, MDOT



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EXISTING DRAIN ROUTE & COURSE:

- Drain route in petition is existing drain branches in ROW or easement areas.
- Drain route can change and will be determined through engineering analysis and scope of work determined by the Drain Commissioner (if Drain project proceeds)
- Initial Drain Route = 1,225 feet +/-



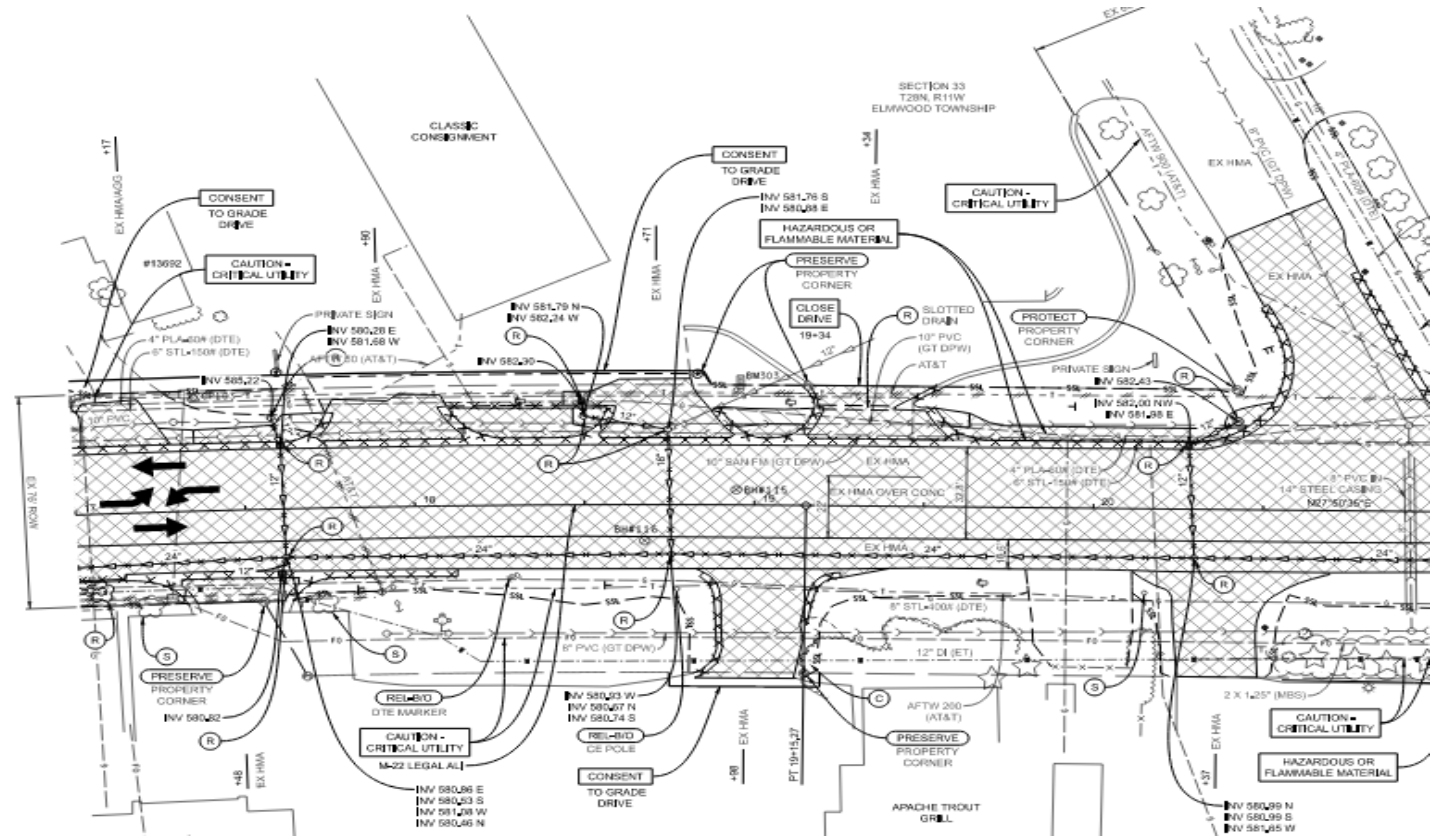
- EXISTING ROUTE & COURSE
- - - EXISTING WATERCOURSES
- DRAINAGE DISTRICT BOUNDARY



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EXISTING INFRASTRUCTURE:

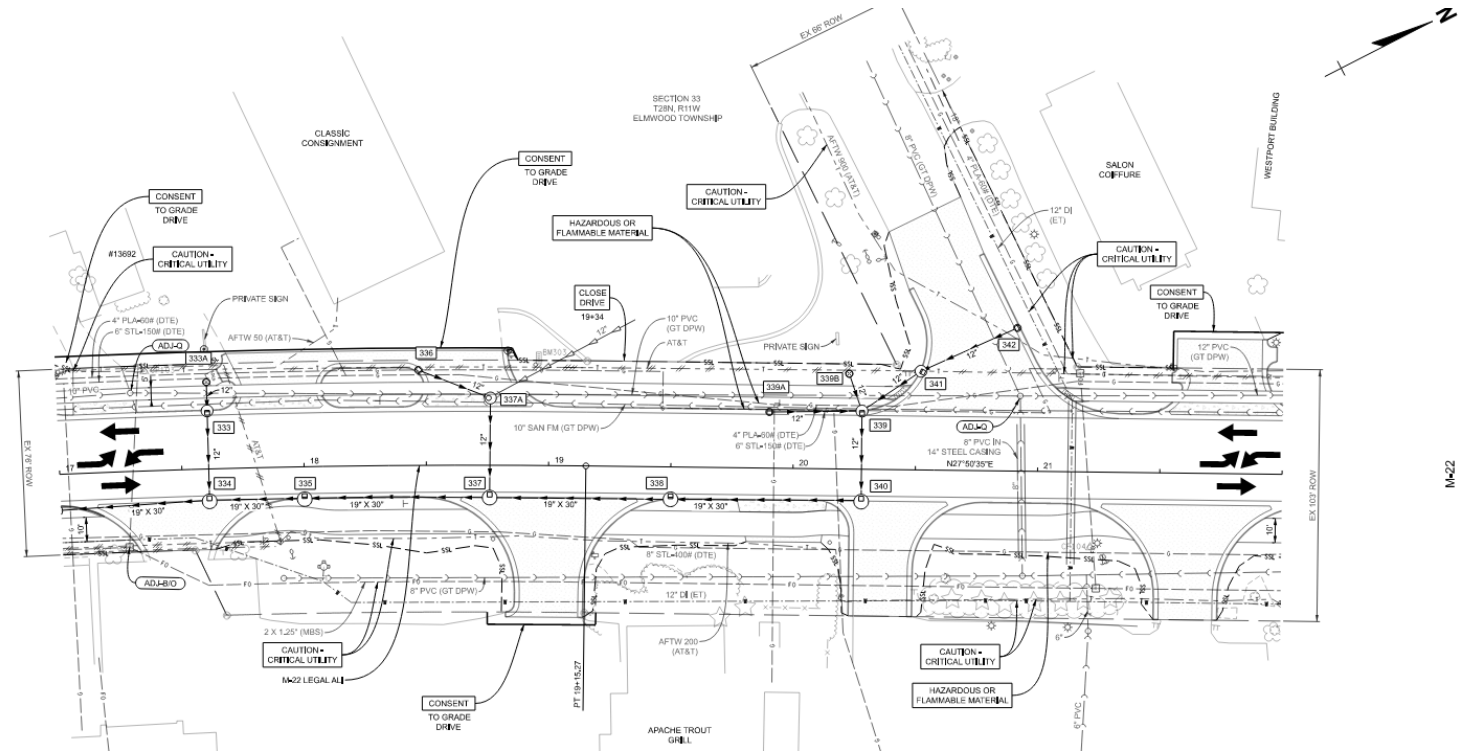


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PROPOSED MDOT INFRASTRUCTURE:

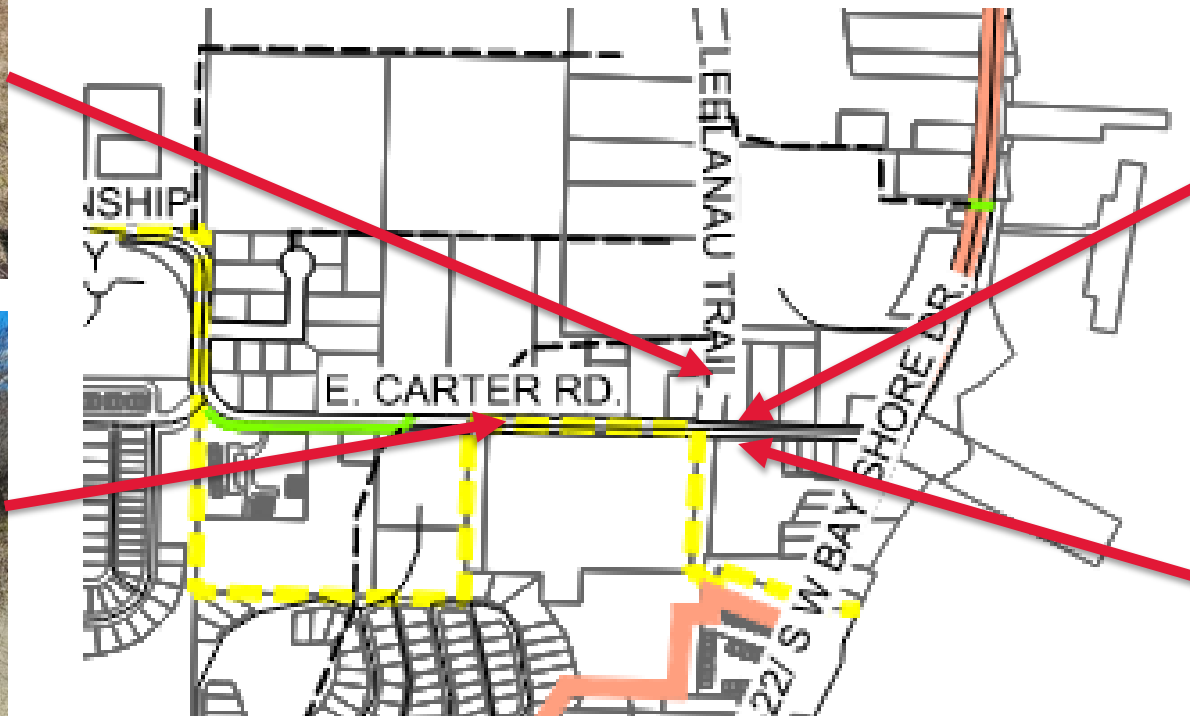
- Proposed 24" storm sewer would run on the east side of M-22 with catch basins along the east and west curb lines. All sewer is in ROW of M-22 with no drains or drainage in area of concerns.



DRAINAGE ISSUE, PURPOSE OF PETITION:

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- Flooding in parking lots and buildings south of Carter Rd and east of M-22 (Bay Shore Dr) specifically at the Glendale Burger Shop/ Silver Swan parking lot and Classic Consignment.



DRAINAGE ISSUE, PURPOSE OF PETITION:

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- Low-lying areas near Glendale Burger Shop/ Silver Swan parking lot and Classic Consignment.



DRAINAGE ISSUE, PURPOSE OF PETITION:



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- Flooding in parking lots and buildings south of Carter Rd and east of M-22 (Bay Shore Dr) specifically at the Glendale Burger Shop/ Silver Swan parking lot and Classic Consignment.



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QUESTIONS ?????
