

# Zehnder Drain

## Board of Determination

Frankenmuth City & Township Government Center

June 17th, 2015

7:00 PM



**Brian J. Wendling**

**Saginaw County Public Works Commissioner**

# Meeting Agenda

- I. Introduction
- II. Opening of Board of Determination Meeting
- III. Outline of the Board of Determination Procedure
- IV. Inspection Report
- V. Public Testimony - (3 minutes per person.)
- VI. Vote of Board of Determination
- VII. Appeal Procedures and Closing Comments
- VIII. Adjournment

# Role of the B.O.D.

- The Board of Determination's role is to make two decisions:
  1. Whether the project is necessary
  2. Whether a portion of the cost is to be assessed at-large to the municipalities

# Role of B.O.D. (cont.)

- The Board of Determination DOES NOT decide:
  - ▣ The scope of the project
  - ▣ The cost of the project
  - ▣ How much property owners and municipalities are assessed for the project

Information on these topics will be made available at a later date. Please see a member of the Public Works Commissioner's staff after the meeting if you have questions.

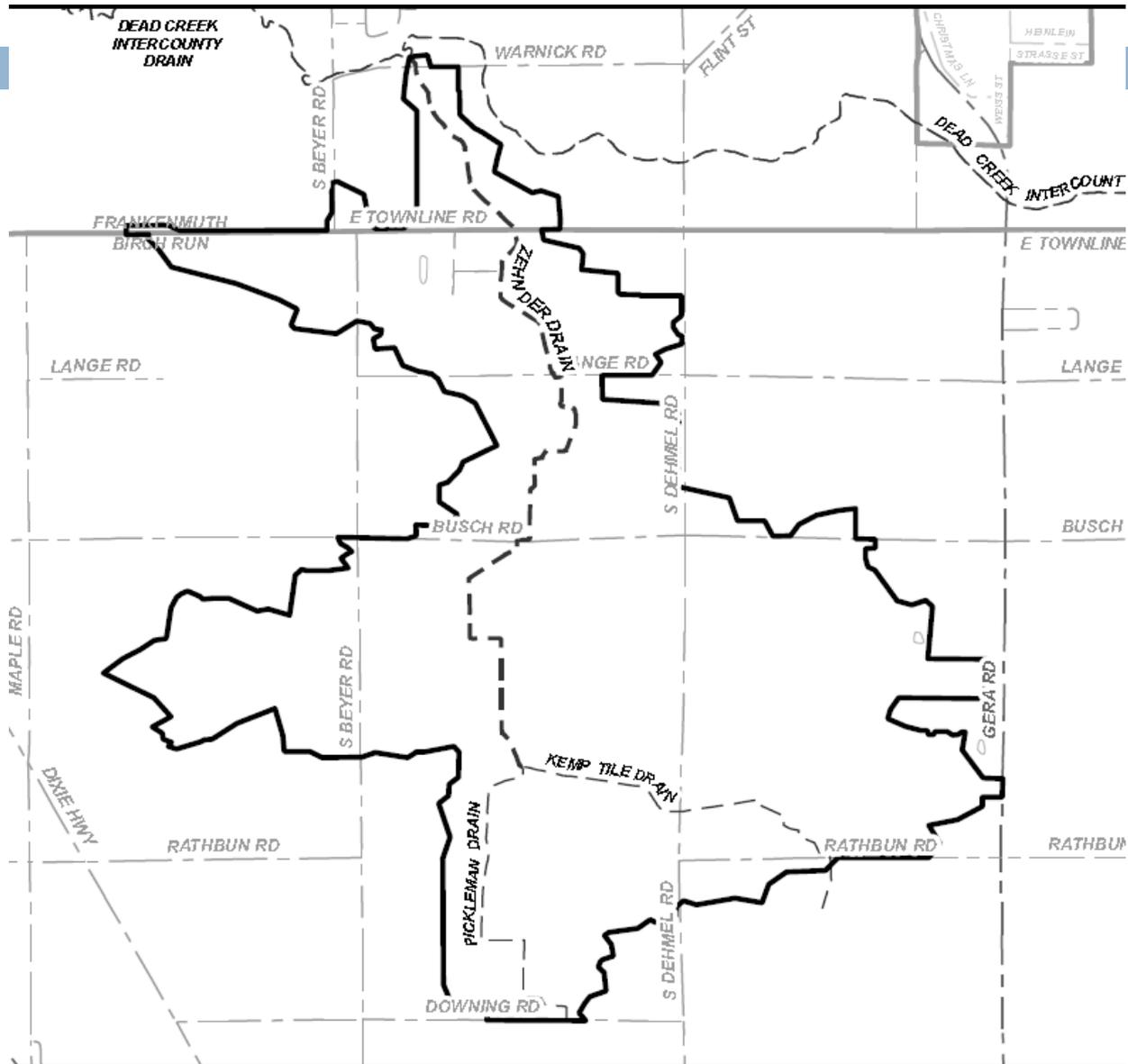
# Public Comment

- *Please fill out a comment card.*
- The speaking order will be on a first come, first served basis.
- State your full name and address. Spell your last name for the court reporter.
- Limit comments to 3 minutes.

# Public Comment (cont.)

- Briefly state your position on the petition for the Zehnder Drain. For example: “I support the petition for the Zehnder Drain because . . .” or “I oppose the petition for the Zehnder Drain because . . .”
- Remember to stay on topic! Comments for tonight’s meeting are limited to the current petition for the Zehnder Drain only.
- The Public Works Commissioner’s staff will gladly speak with you on other topics after the conclusion of tonight’s meeting.

# Drainage District Map

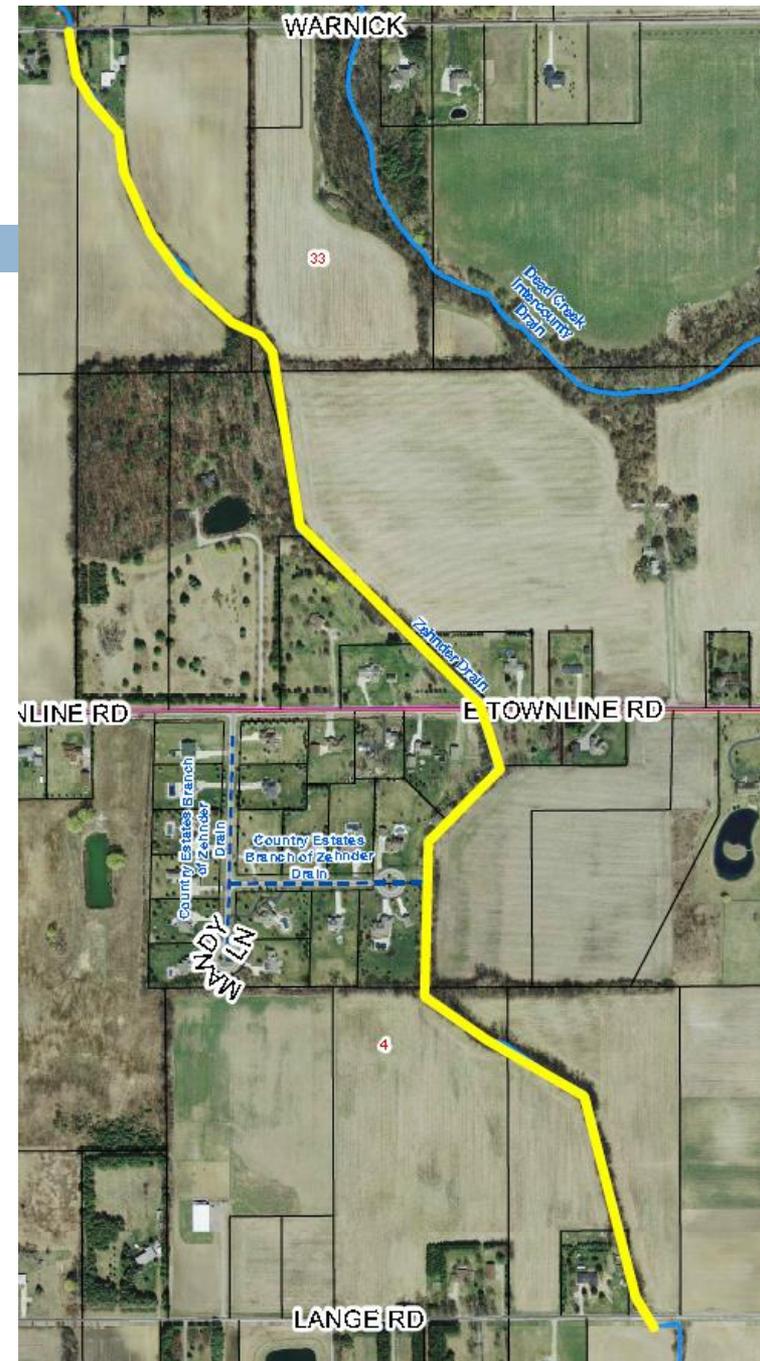


# Drain Facts

- Where is the Zehnder Drain?
  - ▣ See Map
  - ▣ Approximately 14,650 feet long (2.8 miles)
  - ▣ Watershed area: 2,093 acres
- What is the drainage district?
  - ▣ Lands that contributes storm water to drain
  - ▣ Drainage District serves as the special assessment district
  - ▣ Zehnder Drain Drainage District includes:
    - Frankenmuth Township
    - Birch Run Township
    - Saginaw County
    - Michigan Department of Transportation (MDOT)
    - Landowners – Approximately 225 parcels

# Drain Facts continued

- The Zehnder Drain was established in 1916.
- December 2010 – SCPWC completed drain maintenance. Removed log jams from drain bottom, and cleared trees along the drain from Warnick Road to Lange Road. (Yellow Line)

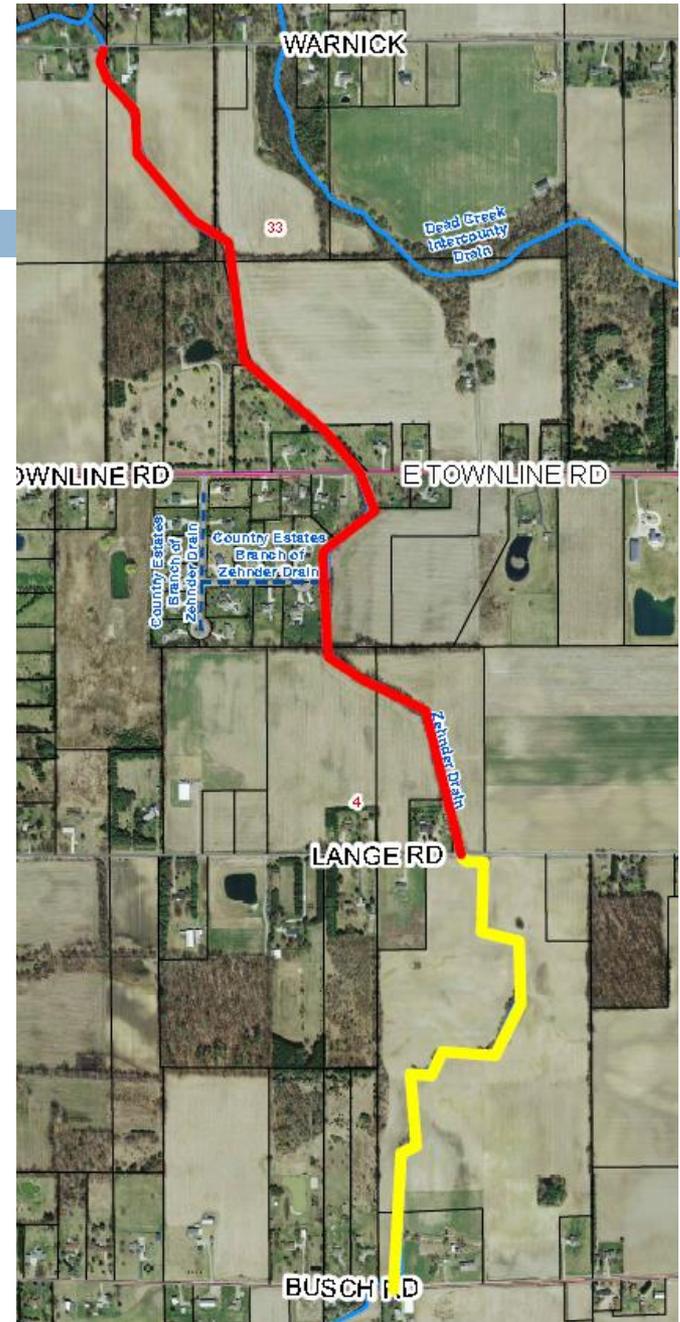


# Drain Facts continued

October 2011 – Drain maintenance completed.

- SCPWC hired contractor to remove sand bars and fix bank erosion from Warnick Road to Lange Road. (Red Line)
- Contractor also cleaned out approximately 3,650 feet of drain bottom and removed brush from Lange Road to Busch Road. (Yellow Line)

Note: this same location drain bottom was previously cleaned by landowners in 1987



# Drain Facts continued

- March 2015 – Landowner applied for permit to work in the drain right-of-way, and cleaned approximately 2,000 feet of drain bottom located south of Busch Road. (Yellow Line)
- Current petition filed on December 1, 2014. Petition circulated by Debra Krafft and signed by 10 Freeholders.



# Drain Inspection

- On April 23, 2015 an engineering field review of the Drain (inspection from the road crossings only, the entire drain was not walked) was completed as a result of the petition filed with the Public Works Commissioner. The following was observed:
  - The drain flows through agricultural and rural residential areas.
  - Portions of the drain have trees and small brush along the slopes.
  - There was good water flow through the drain.
  - Minimal to no bank erosion or sediment bars were observed.

# Looking Downstream (North) from Warnick

Trees & brush along  
drain, good water  
flow



# Looking Upstream (South) from Warnick Road

Small trees &  
brush; good water  
flow



# Downstream (North) End of Warnick Road Crossing

No sediment,  
good water flow



# Looking Downstream (North) from E. Townline Road

Trees & brush  
along drain, good  
water flow



# Looking Upstream (South) from E. Townline Road

Trees and brush  
on slopes, good  
water flow



# Looking Downstream (North) from Lange Road

Brush on side  
slope, good water  
flow



# Looking Upstream (South) from Lange Road

Nice side slopes,  
good water flow



# Looking Downstream from Busch Road, Parallel to Road

Nice side slopes,  
good water flow



# Looking Downstream (North) from Busch Road



# Looking Upstream (South) from Busch Road

Nice side slopes,  
good water flow



# Upstream End (South) - Busch Road Crossing

Good water flow,  
minimal sediment



# Drain Inspection Recap

- ❑ The drain flows through agricultural and rural residential areas.
- ❑ Portions of the drain have trees and small brush along the slopes.
- ❑ There was good water flow along the drain.
- ❑ Minimal to no bank erosion or sediment bars were observed.
- ❑ The road crossings/culverts appeared to be in good condition (size and grade were not calculated).

# Summary of Drain Finances

- ❑ Drain Maintenance completed in 2010 - tree and log jam removal – spent approximately \$3,200.
- ❑ Drain Maintenance completed in 2011 – repair erosion on drain side slopes, remove sand bars & bottom cleanout – spent approximately \$11,350.
- ❑ Drain account currently has approximately \$5,038.

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