### Rexford Lake Intercounty Drain

MDARD – Brady Harrington Kent County – Ken Yonker Muskegon County – Brenda Moore Ottawa County – Joe Bush

February 29, 2024









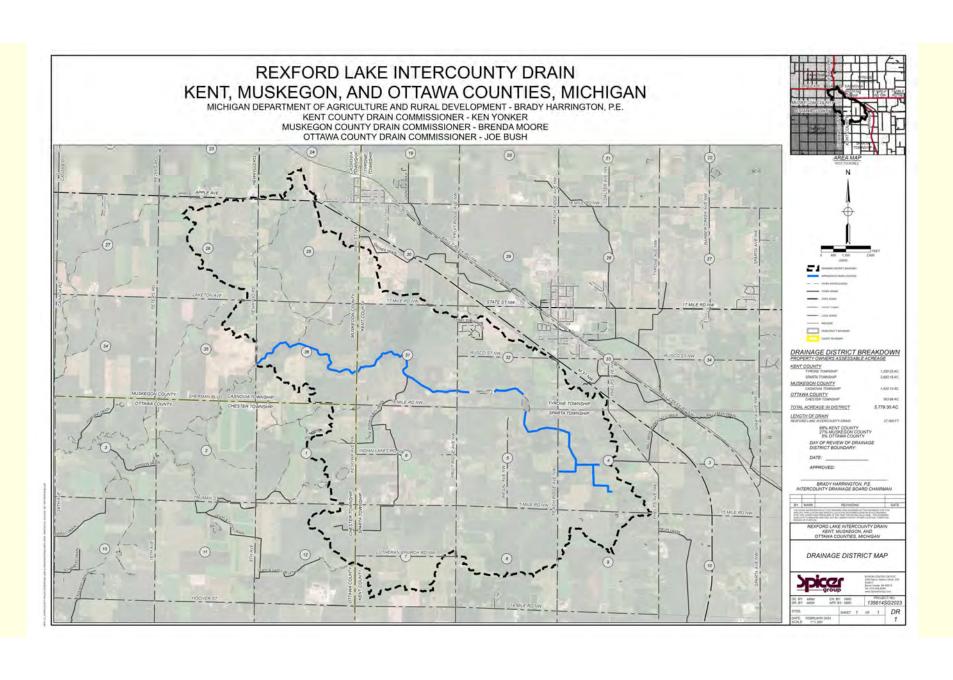


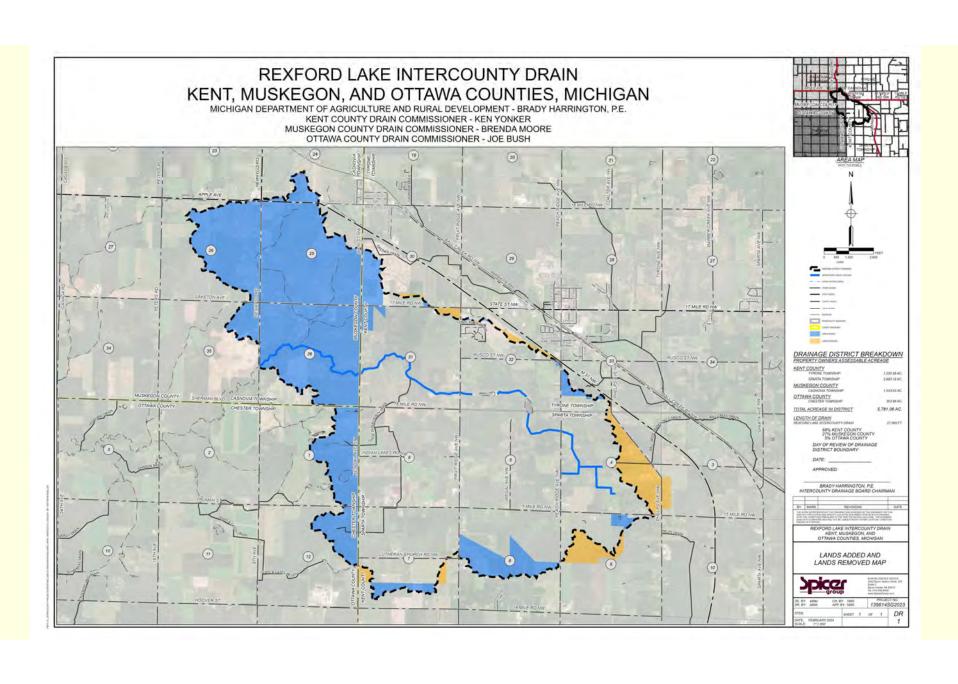
### Outline

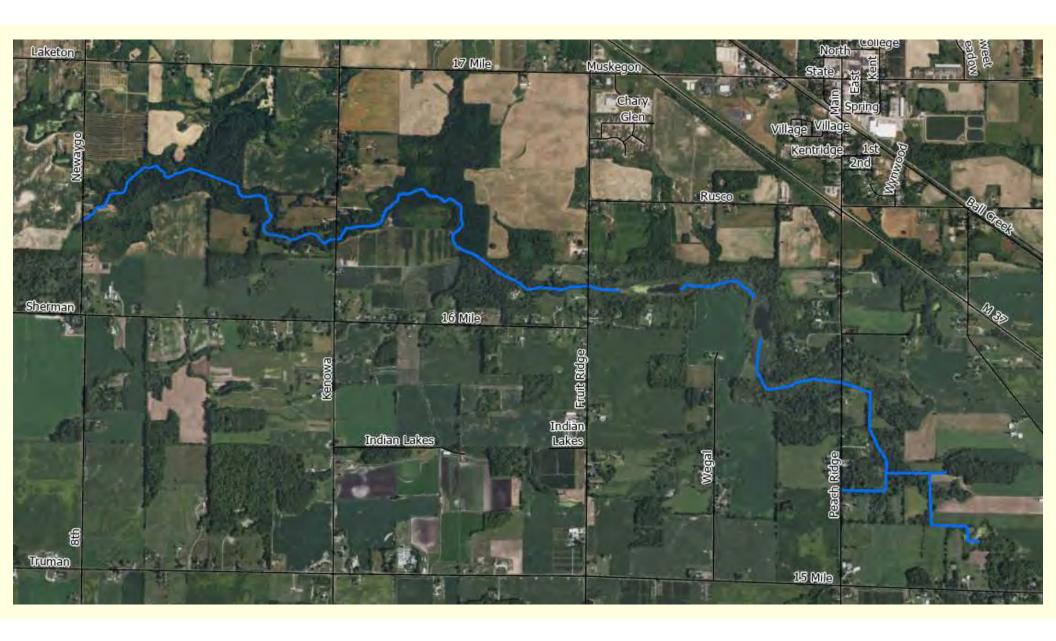
- Background/History
- Drainage District Boundary Review
- Inspection Overview
- Design Alternatives

### Background/History

- Petition for Maintenance and Improvement
- Watershed: ~5,800 Acres/9 Sq. Mi.
- ■~650 Parcels
- Drain Length: 27,065 Ft. / ~5.1 Mi.
- Land Use: Agricultural & Forested







#### Newaygo Road Crossing (POB)





### Woody Debris in the Drain









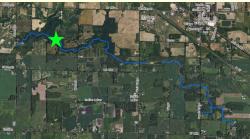
# Woody Debris Obstructing the Drain





# Woody Debris Obstructing the Drain













#### Kenowa Ave. Crossing

















# Erosion Repair and Fence





#### Woody Debris Obstructing Drain





#### Fruit Ridge Ave. Crossing









#### Rexford Lake

















### Wegal Lake





Stagnant Channel, Woody Debris, and Grassy Banks





Stagnant Channel, Woody Debris, and Grassy Banks





#### Peach Ridge Ave. Crossing





#### Peach Ridge Ave. Crossing





#### Eroded Channel





### Heavily Vegetated Channel





### Heavily Vegetated Channel





Stagnant Channel, Woody Debris, and Grassy Banks





Stagnant Channel, Woody Debris, and Grassy Banks





# Structure Backing Up 2-3 Feet of Water





### Flooded Drain





### Indistinct Channel Heavily Vegetated





### Small Channel Heavily Vegetated





### 15 Mile Road Crossing





### Overall Condition

- Fair Condition
- A Lot of Woody Debris
- Portions of Eroded Banks
- Portions of Drain with Stagnant Water
- Portions of Drain with Undefined Channel
- Structure Blocking Water Near Upstream End

# Design Alternatives

- Extend drain to 15 Mile Road crossing
- Establish agreement for structure that is holding back water
- Remove woody debris, repair erosion, restore historic line and grade via sediment removal

# Preliminary Cost Estimate

- ■Channel Maintenance \$180,000
- ■Woody Debris Removal \$75,000
- Erosion Repair \$70,000
- ■Miscellaneous Construction \$50,000
- ■Total Construction Cost \$375,000

### Procedure/Next Steps

### ■ Purpose of Hearing:

■ To determine whether a project is necessary

### ■ Next Steps If Found Necessary:

- Further Engineering
- Easement Acquisition
- Permitting
- Bidding
- Hearing to Review Apportionments
- Construction

### Procedure/Next Steps

- ■If Found NOT Necessary:
  - Proceedings end
  - No new petition for a period of 1 year

# Questions?











