Presentation to the:
Stewart Drain
Board of Determination

On Behalf of:
Muskegon County Drain Commissioner
Brenda Moore

By:
Land and Resource Engineering, Inc.
Presentation Overview

- Why are We Here?
- Drain Overview
- Drainage Issues
- Potential Improvements
- What Happens Next?

Hancock Rd.
Muskegon County Drain Commissioner received a petition from ...... for “cleaning out, relocating, widening, deepening, straightening, tiling, extending, or relocating, adding lands, and/or adding one or more branches” to the Stewart Drain.

Michigan Drain Code Act 40 of 1956, as amended, mandates that as part of the petition process, the Drain Commissioner must schedule and hold a Board of Determination (BOD).

BOD will hear all testimony and determine if a project is necessary based on public health, welfare or convenience.
Drain Overview

- Tributary to White Lake
- Established in 1907
- Total Length ~ 2.1 Miles
- 100-ft Easement Width (50-ft each side of Centerline)
- ~ 747 Acre Contributing Watershed (Drainage District)
- Sandy Soils
Drainage Issues

- Up to 2-ft of Sediment Buildup in Drain – primarily along Hancock and Post Roads and south of Eilers Road
- Culverts in Poor Condition, Perched, or Clogged

36” CMP along Post Rd.
Sediment / Stagnant Water – North of Post Rd.
Drainage Issues

- Woody Debris
- Localized Erosion

Bank Erosion – S. Hancock Rd.

Woody Debris – Near Dowling Rd.
Potential Improvements

- Woody debris management
- Stabilize areas of localized erosion
- Remove sediment to restore channel capacity and improve channel gradient where possible
- Replace failing, perched or undersized culverts
What Happens Next?

- Open floor to public testimony (written and oral).

- BOD to decide if petition is necessary:
  - If the BOD finds that the petition is not necessary, the project ceases immediately and no petition can be heard for the same project until 12 months have passed.
  - If the BOD finds that the petition is necessary based on health, welfare or convenience, the Drain Commissioner proceeds with a project. Each project is unique, however, in accordance with the Drain Code, the following tasks must be completed:
    1. Complete topographic survey / engineering design
    2. Obtain easements (if necessary)
    3. Apply for permits (if necessary)
    4. Bid project
    5. Hold “Day of Review”
    6. Construct project