

Hydric Soils-Lansing/East Lansing



Hydric Soils-Macomb County



Compounding Effect

- Aging infrastructure
- Record rain events
- Rising Great Lakes and groundwater levels
- Continuing development
- Loss of wetlands























Water Management Districts

House Bills 4382 & 4383

- Bill sponsors: Rep. Morse (HB 4382) & Rep. VanderWall (HB 4383)
- Allows creation of "water management districts"
- Intended to take "pressure" off drains by storing/managing water in the entire watershed

Water Management Districts

House Bills 4382 & 4383

- Drafted to complement (not replace) other chapters of Drain Code
- More involvement from local units in decision-making process, especially in intra-county watersheds
- Increased planning by local units with ordinances/reviews

Culvert Replacement

Issues with undersized culverts:

- Causes flooding behind culvert, which can result in overtopping driveway/road
- High water velocity causes scour and erosion downstream
- High water velocity causes issues with fish passage

Culvert Replacement









Scour and erosion due to undersized culvert

Culvert Replacement Examples

Schooley Drain (Kent County)

- Diameter: 16x7 foot box culvert
- Length: 60 feet
- Replacement cost: \$240,496

Culvert Replacement Examples

Gage Drain (Saginaw County)

- Diameter: 10x5 foot box culvert
- Length: 48 feet
- Replacement cost: \$208,700

MDNR Payment of Drain Assessments

- MDNR lands are currently <u>exempt</u> from drain assessments
- Problematic because many drainage districts include significant amounts of State-owned land
- → High assessment burden on remaining property owners

MDNR Payment of Drain Assessments

House Bill 5335

- Bill sponsor: Rep. Andrews
- Allows assessment of MDNR lands based on benefits received from a drain/drain project

