Okemos Consolidated Drain
Board of Determination

Ingham County Drain Commissioner
Patrick E. Lindemann

July 29, 2021 1:00 p.m.
Meridian Charter Township Hall
Okemos Consolidated Drain

Drainage District Engineer
LSG Engineers & Surveyors
Contact: Alan Boyer, PE
Phone: (517) 393-2902
Grand River & Okemos Road, Monday, June 7, 2021
Grettenberger Drain

- Established prior to 1912 (1890's)
- 1912 District Map
- 1913 Final Order & Survey
Grettenberger Drain - above August, 2018 video clip of the condition of the 105-year old tile Drain.

Grettenberger Drain - below August, 2018 Okemos Road collapse and repair.
Project Planned to Halt Meridian Flooding

A $3,000 project to eliminate long existing flooding problems at M-43 and Okemos Road in Meridian Township is being planned by the Ingham County Drain Commission.

However, because of a current tight money situation, the project, involving cleaning and maintenance work on the Greentenger Drain, might be delayed until next spring, according to Richard L. Sode, county drain commissioner.

Although township trustees adopted an emergency resolution this week approving a special assessment for the project, Sode said he does not have money available to initially pay for the work.

Normally, he said, the drain office has a special fund to pay for maintenance projects, but due to cutbacks, the fund currently contains only $300.

However, Sode said additional funding will be available after Jan. 1, and he is investigating the possibility of getting the drain cleaned before then, which would require finding a contractor who would do the work on credit.
Meijers Drain

- 1974-1975 Built for the Meijer Thrifty Acres
- 1988 Drain improvements to replace and relocate as part of Okemos Road construction
- 1989 Drainage District Map
Meijers Drain

- Existing conditions under Grand River Ave. (M-43) as of Nov. 2020
Above: Grand River Avenue (M-43) Improvements proposed for 2022. Project anticipates coordination of drainage improvements in the Okemos/Grand River intersection.

Below: Looking south along Okemos Road. ICRD originally planned to repave in 2018. Work is on hold pending Grettenberger Drain repairs/improvements.
Meridian Mall – west parking lot, June 7, 2021
Enviro-weather
formerly Michigan Automated Weather Network (MAWN)

STATION: haslett
STATION ID: has
LOCATION: Clearview Orchards
CITY: Haslett
LATITUDE: 42.7703 deg.
LONGITUDE: -84.3297 deg.
ELEVATION: 281.00 m
LOGGER PROGRAM: has-bsed
DATE/TIME: 2021-07-02/13:30:53

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FIVEMIN WEATHER DATA - SUMMARY:
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2-year rain event
± 1-inch of rain in 1 hour

Variable Ids:
PCPN: Precipitation (in)

Data provided by the Michigan Automated Weather Network (MAWN)
and Enviro-weather Program.

Please direct bug reports, comments, and suggestions to the following email address: sweather@msu.edu
### Enviro-weather

**formerly: Michigan Automated Weather Network (MAWN)**

#### Station Information:
- **Station:** haslett
- **Station ID:** has
- **Location:** Clearview Orchards
- **City:** Haslett
- **Latitude:** 42.7703 deg.
- **Longitude:** -84.3297 deg.
- **Elevation:** 281.00 m
- **Logger Program:** has-bssd
- **Date/Time:** 2021-07-23/09:45:55

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#### Five Min Weather Data - Summary:

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- **3-month rainfall 5 min. event**
- **10-year rainfall 5 min. event**
- **3-month rainfall 5 min. event**
- **2-year rainfall 5 min. event**
- **6-month rainfall 5 min. event**

Total 1-hr rainfall of 1.66 inches exceeds the 10-year rainfall event
Outlet (former Okemos Drain) at Hillcrest Drive (Ottawa Hills neighborhood), June 7, 2021 about 15 – 20 minutes after the start of the rain.
Former Okemos Drain

- Established early 1890’s
- 1906 Petition for improvements
- 1914 Petition for improvements
- 1952 Petition for improvements
- 1956 Petition for improvements
- c1970 Meridian Mall construction improvements
- 1980’s Extensions for commercial development
Grettenberger/Meijers/Okemos Drainage System
- requires consolidation
The black mark near the top of the signpost marks the flood depth from the April 18, 1975 flood. The mark is about 6.5 feet above the ground.

Ottawa Hills neighborhood signpost at Hillcrest & Seminole
Okemos Drain 18
Complaints 1986 thru 2020

Grettenberger/Meijers/Okemos Drainage System
- requires improvements
- reduce incidence of flooding
DRAINAGE DISTRICT INCLUDES
310+/- ACRES
241 PARCELS
Okemos Consolidated Drainage District

Recommended Drainage District includes 310+/- acres and 241 parcels.
Okemos Consolidated Drain

- **Consolidation**
  - Systematic “holistic” approach
  - Administrative efficiencies for operation, maintenance & improvement

- **Improvement**
  - Replacement of failing system & capacity upgrades
  - Reduce incidence of flooding
  - Compliance with current standards (volume, rate, water quality, etc.)

- **District**
  - Create district boundary for the consolidated drain
Questions?

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