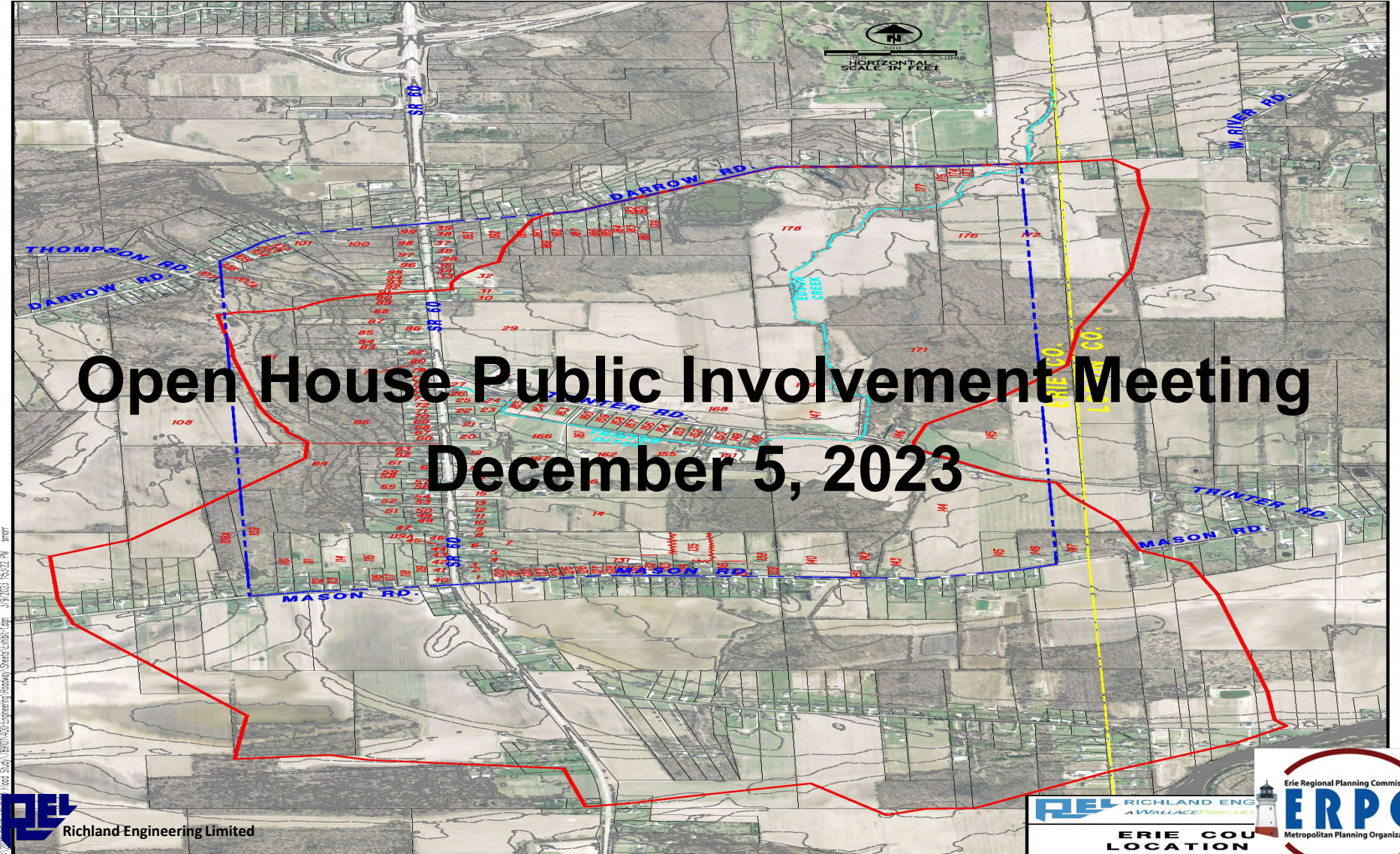


# State Route 60 Flood Study

Open House Public Involvement Meeting  
December 5, 2023



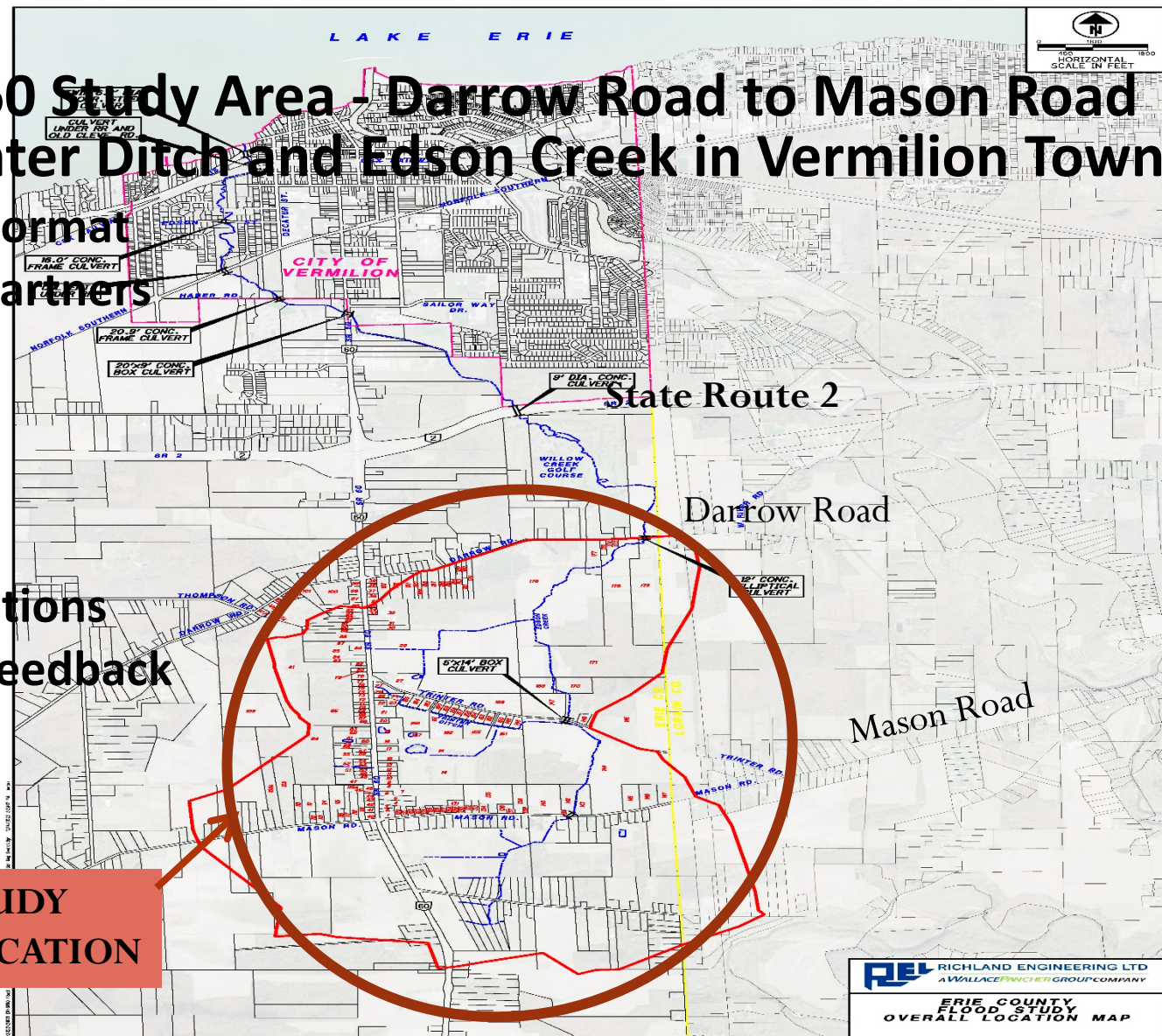
Flood Study 10/10/2023 10:00 AM Engineering (Roadway) (Stress) (Eri) (Ld) 3/9/2023 4:52:22 PM error



# General Overview

## State Route 60 Study Area - Darrow Road to Mason Road including Trinter Ditch and Edson Creek in Vermilion Township

- Open House Format
- Study Team/Partners
  - County
  - ODOT
  - REL
- Exhibits
- Existing Conditions
- Stakeholder Feedback
- Next Steps



STUDY  
LOCATION



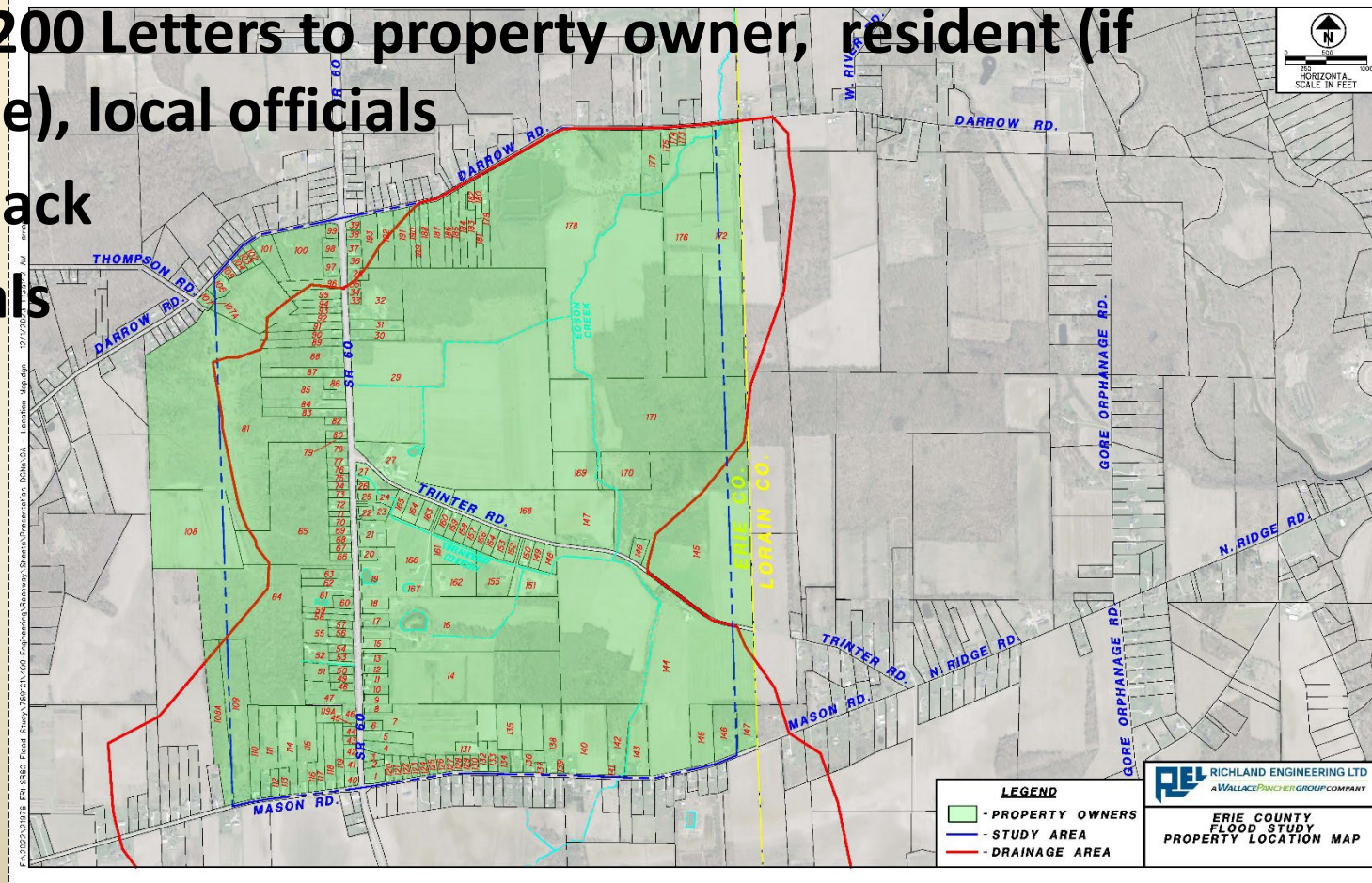
# Existing Conditions

- Outreach Letters - 2023

- Approx. 200 Letters to property owner, resident (if applicable), local officials

- Initial Feedback

- Individuals





# Existing Conditions

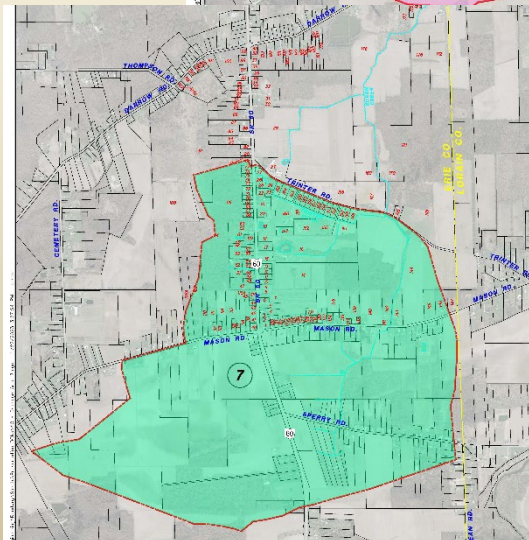
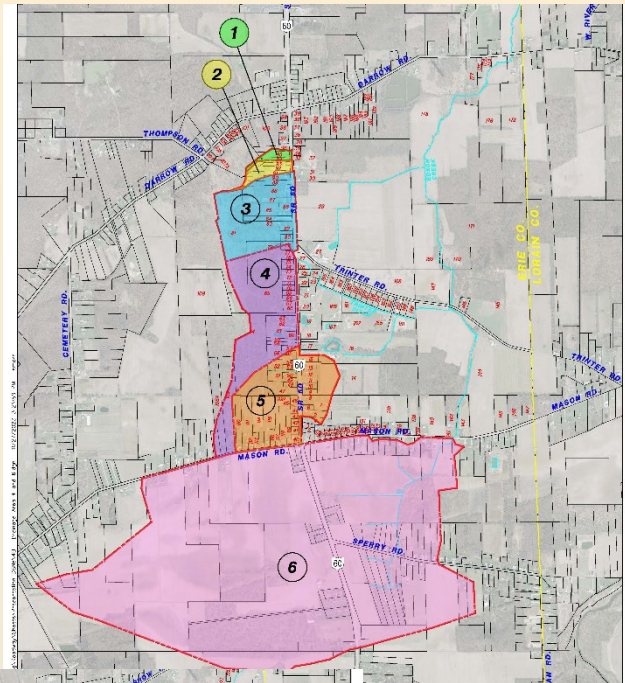
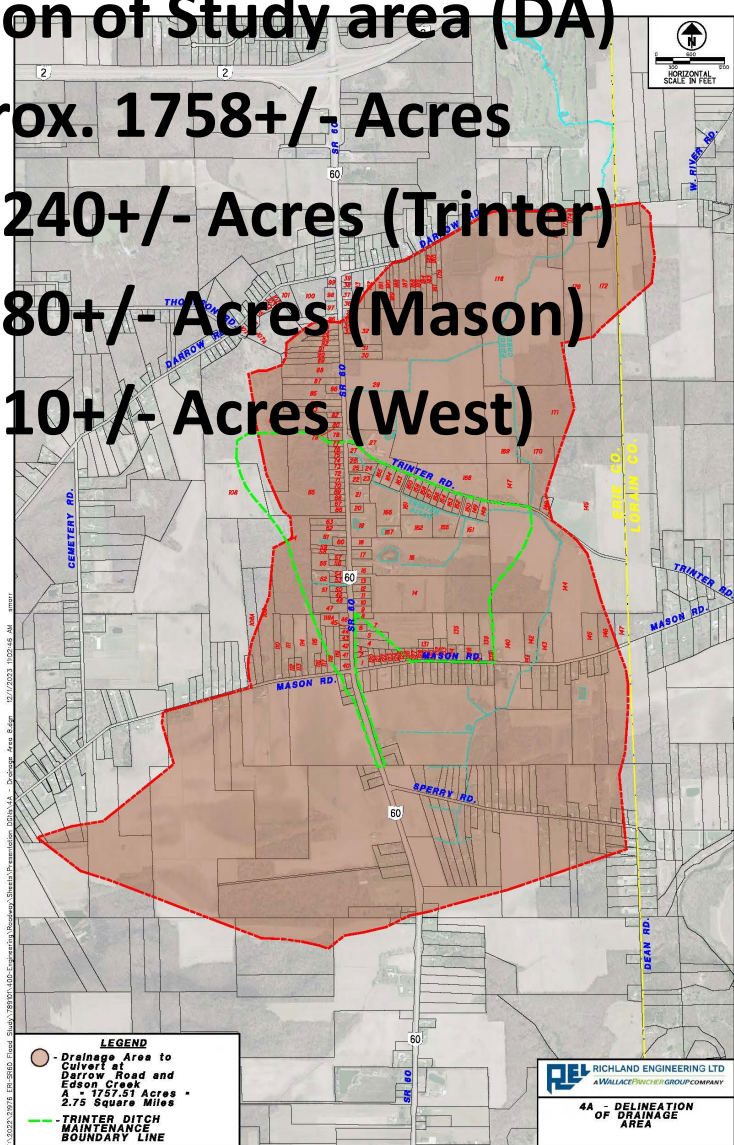
- Evaluation of Study area (DA)

- Approx. 1758+/- Acres

- 1240+/- Acres (Trinter)

- 680+/- Acres (Mason)

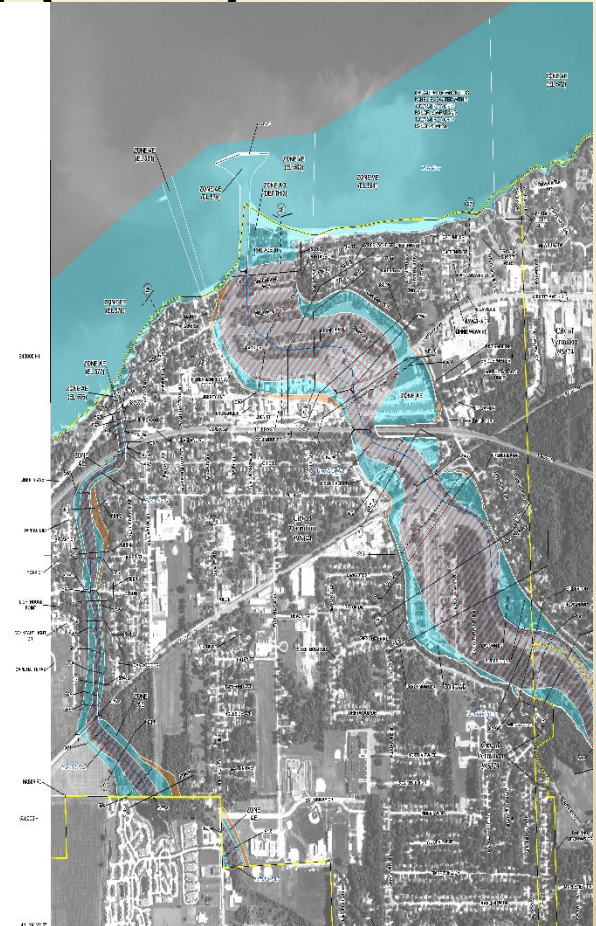
- 210+/- Acres (West)





# Existing Conditions

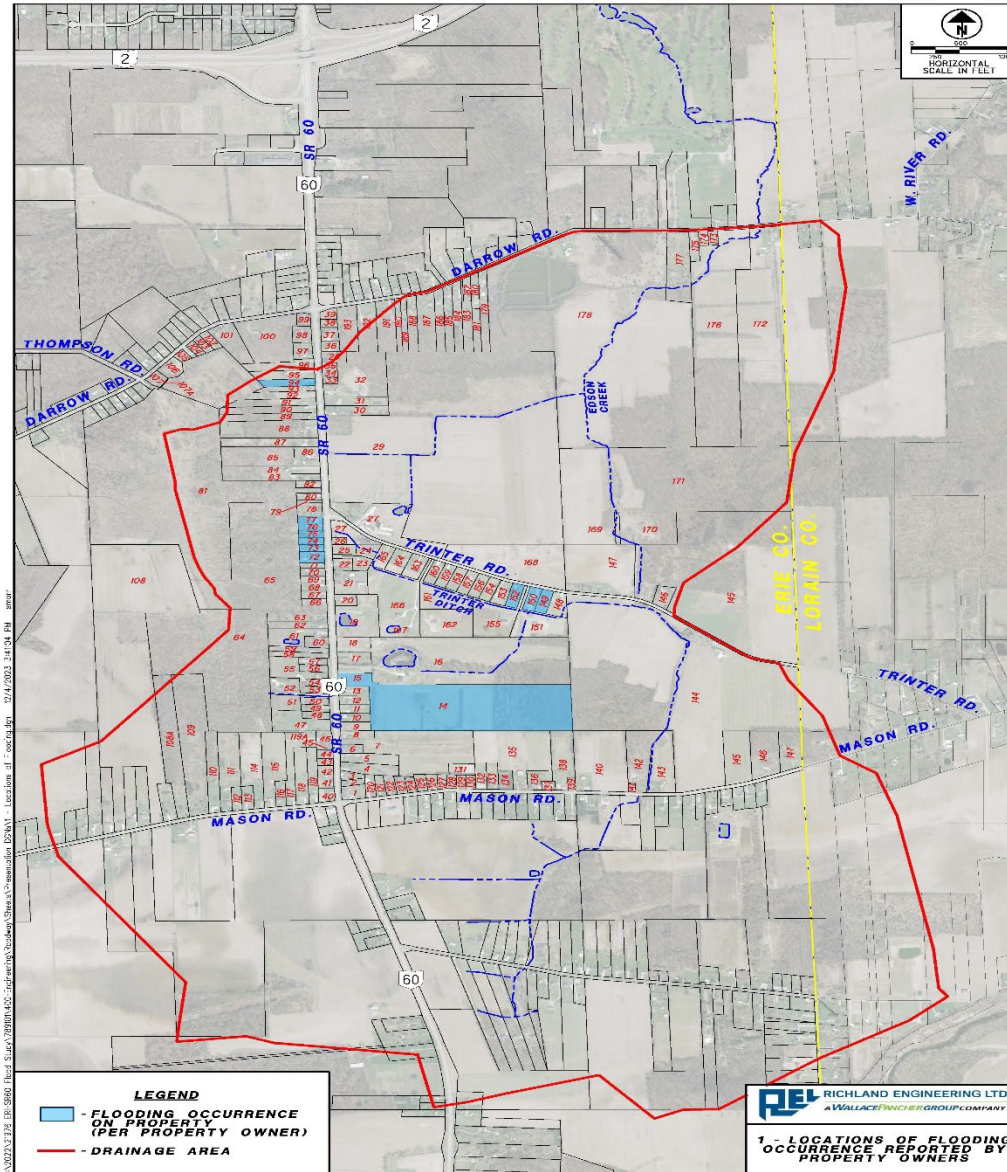
- Evaluation of Drainage area
  - Federal Emergency Management Agency (FEMA)
  - 100 Year Storm (1%)





# Existing Conditions

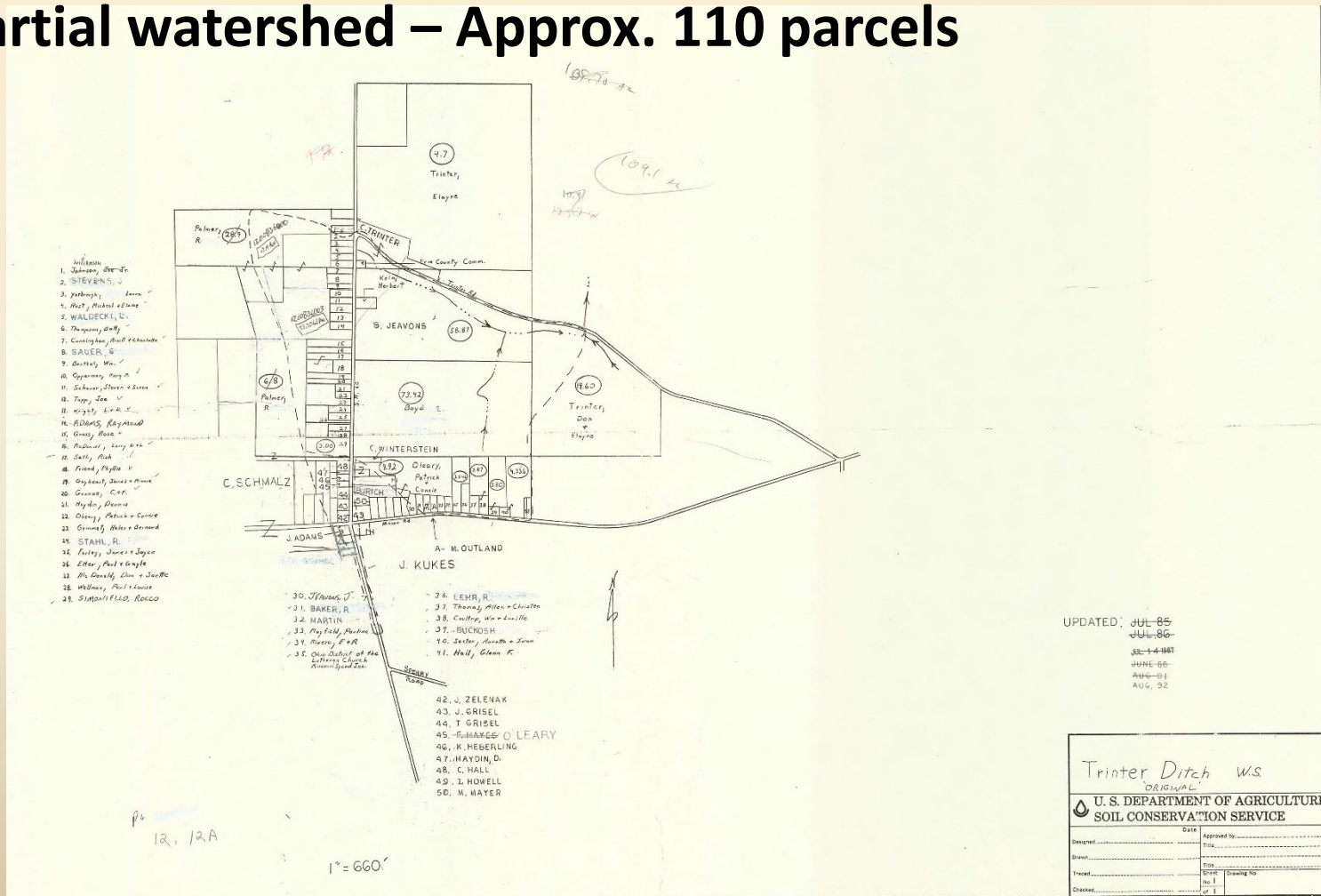
- Local Flooding





# Existing Conditions

- County Petition Ditch - 1974
- Partial watershed – Approx. 110 parcels





# Existing Conditions

- Trinter Ditch until Approx. 1988+/-

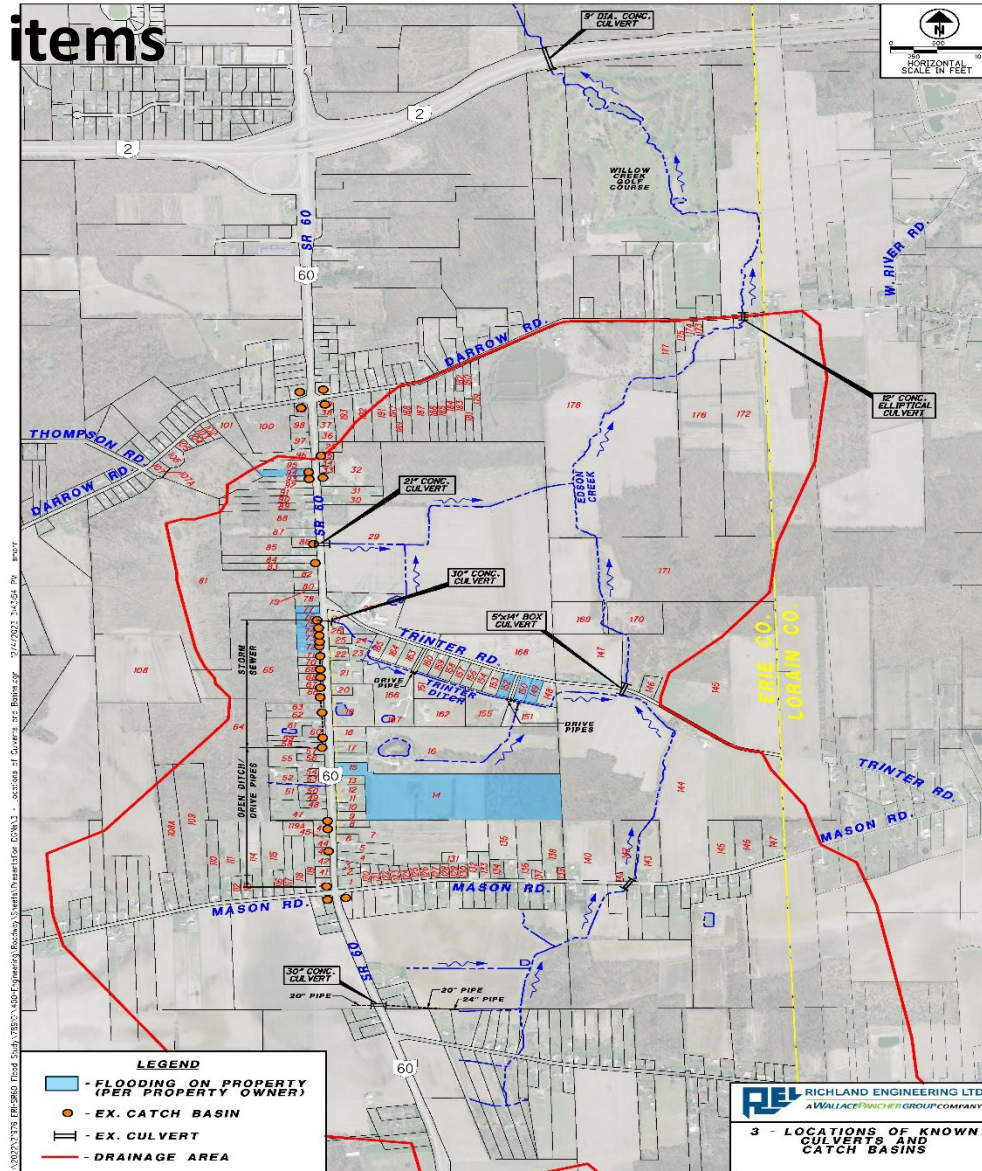


F:\2022\2025 ER-3860 Food Study\2501\1\00 Engineering\Workday Sheets\Present\08\08\VA - Trinter Ditch Prior to Relocation.dwg 2/17/2023 10:00:24 AM gmoor



# Existing Conditions

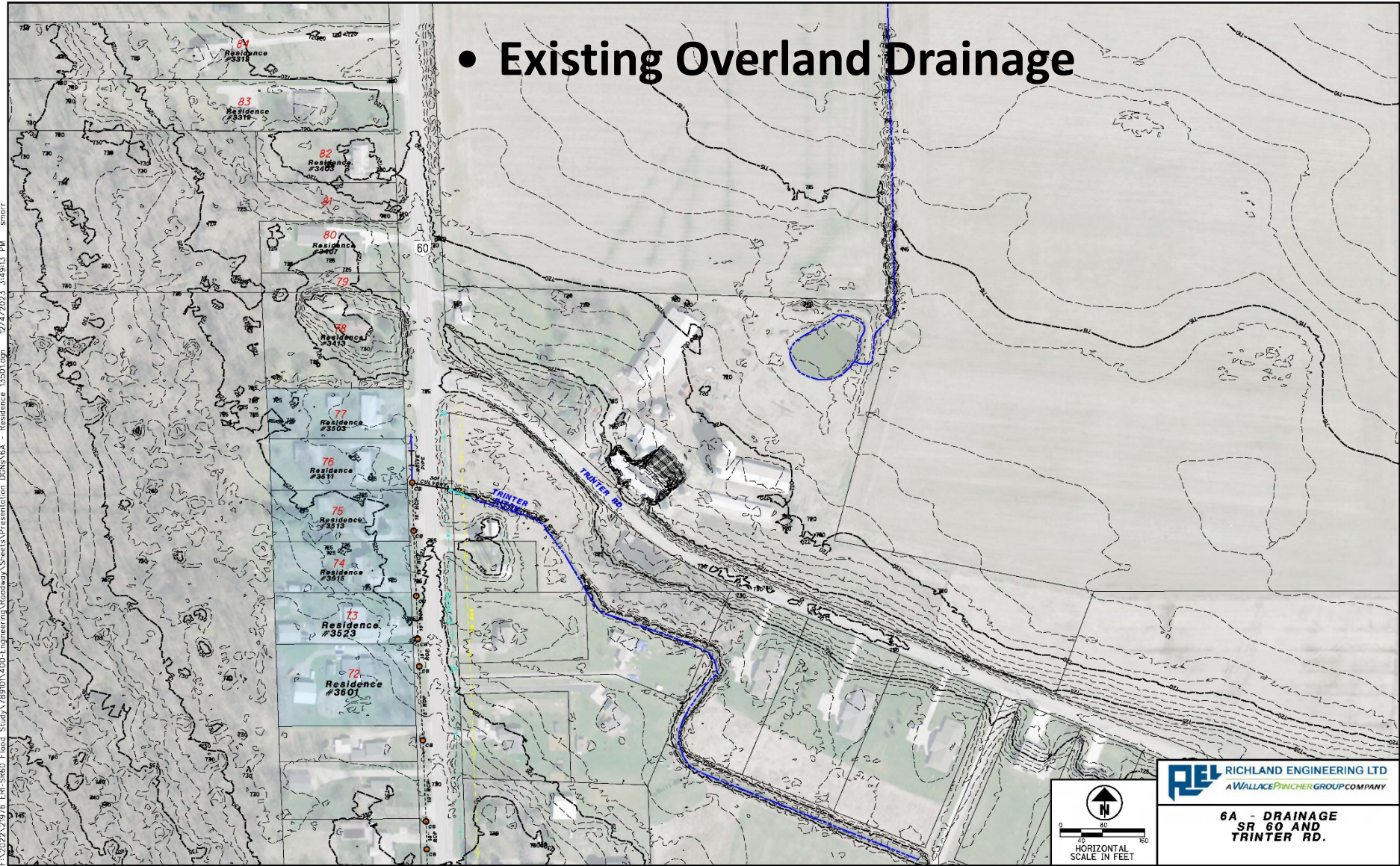
- Existing Drainage items
  - Network
    - Ditches
    - Culverts
    - Conduit





# Existing Conditions

- Existing Overland Drainage

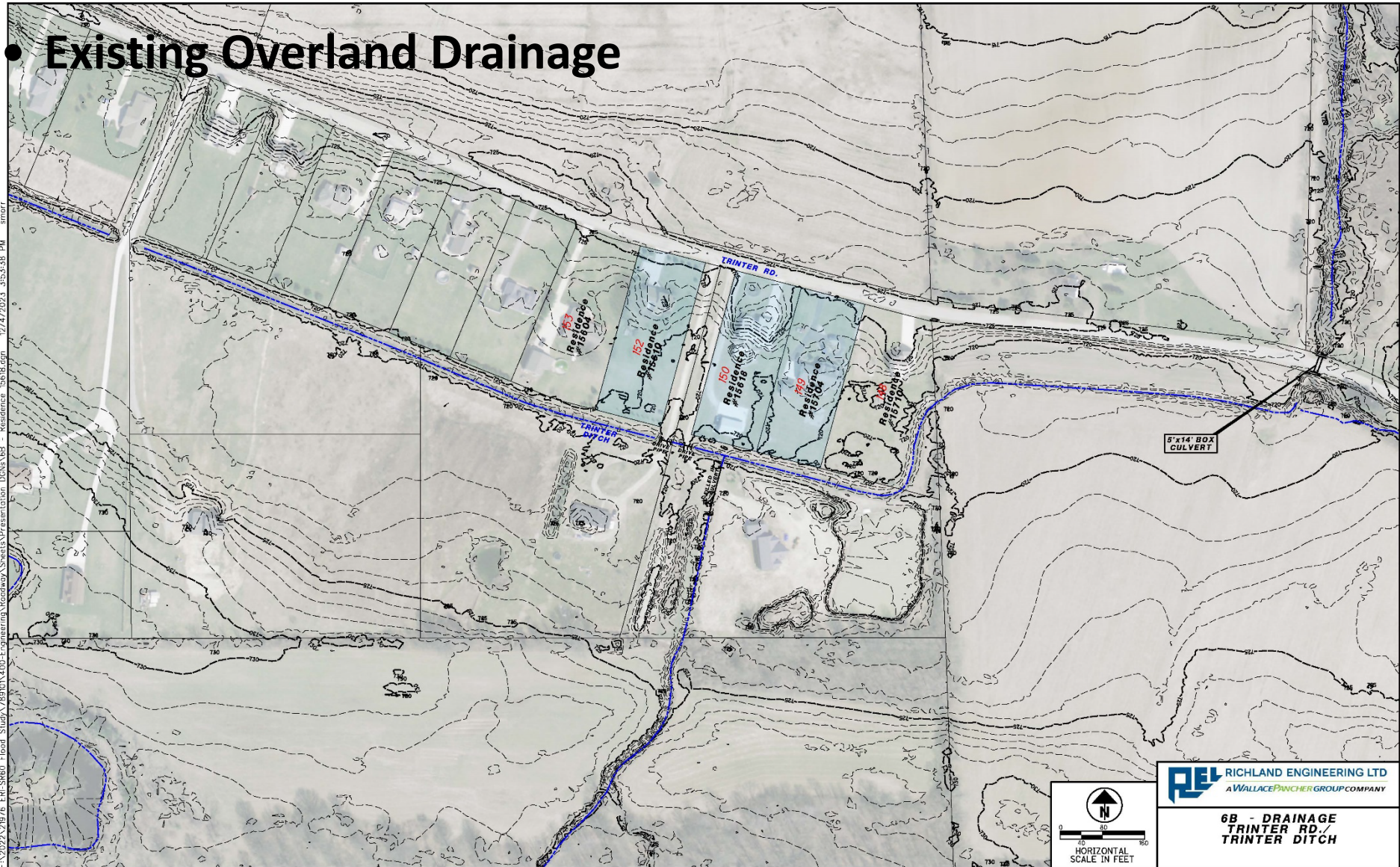


F:\2022\21976 ERI-SHEP Flood Study\76910\400-Engineering\Roadway\Sheets\Presentation\DCNs\6A - Residence - 3550.dgn 2/14/2023 3:49:13 PM emm



# Existing Conditions

- Existing Overland Drainage



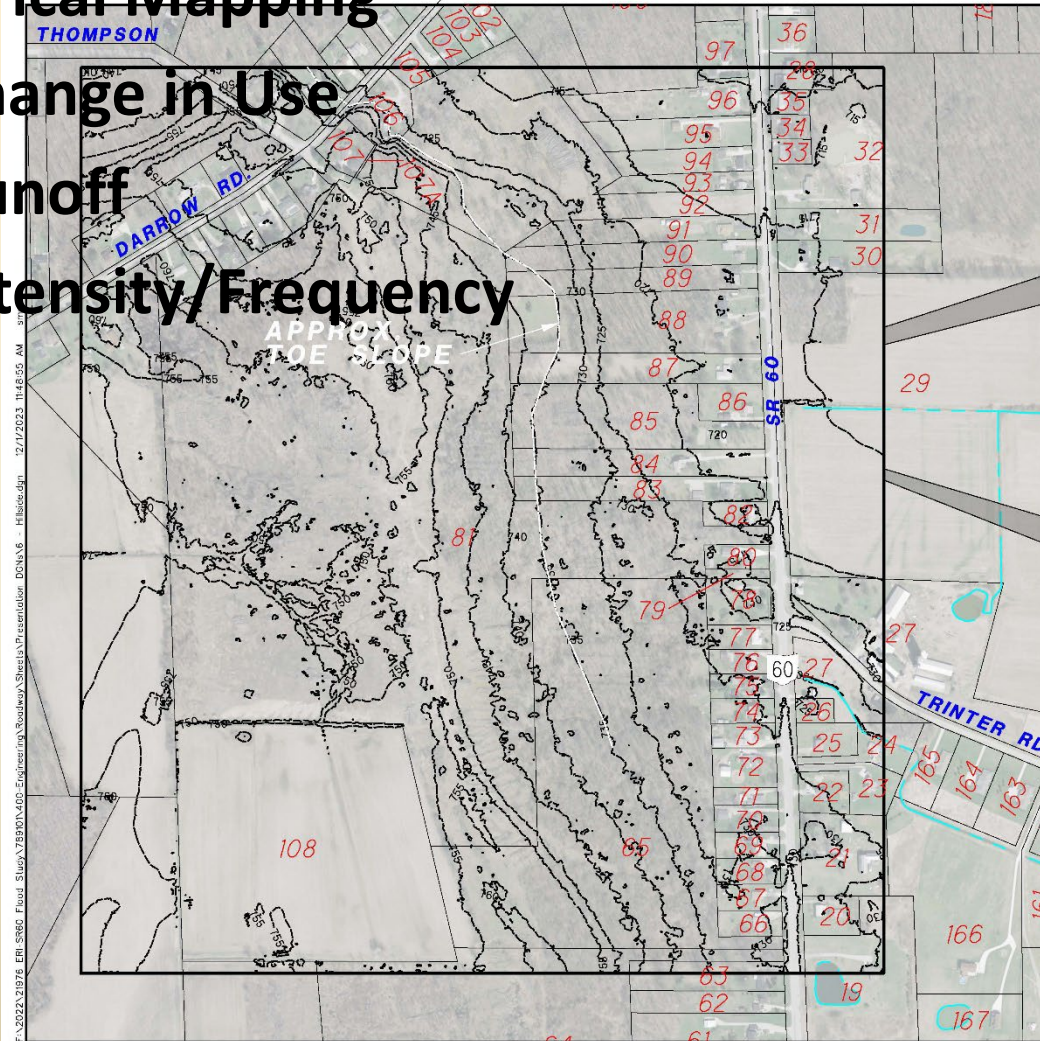
F:\2022\19176 ER-1960 Flood Study\789101-402-Engineering\Foodway Sheets\Presentation DCNs\GB - Residence 15618.dgn 12/14/2023 3:55:38 PM smorr



# Existing Conditions

- Historical Mapping

- Change in Use
- Runoff
- Intensity/Frequency



F:\2022\21972\_ERI\2060 - Flood Study\93901\400 - Engineering\Roadway\Sheets\Presentation\DONA.S - Hillside.dgn 12/17/2023 11:45:55 AM



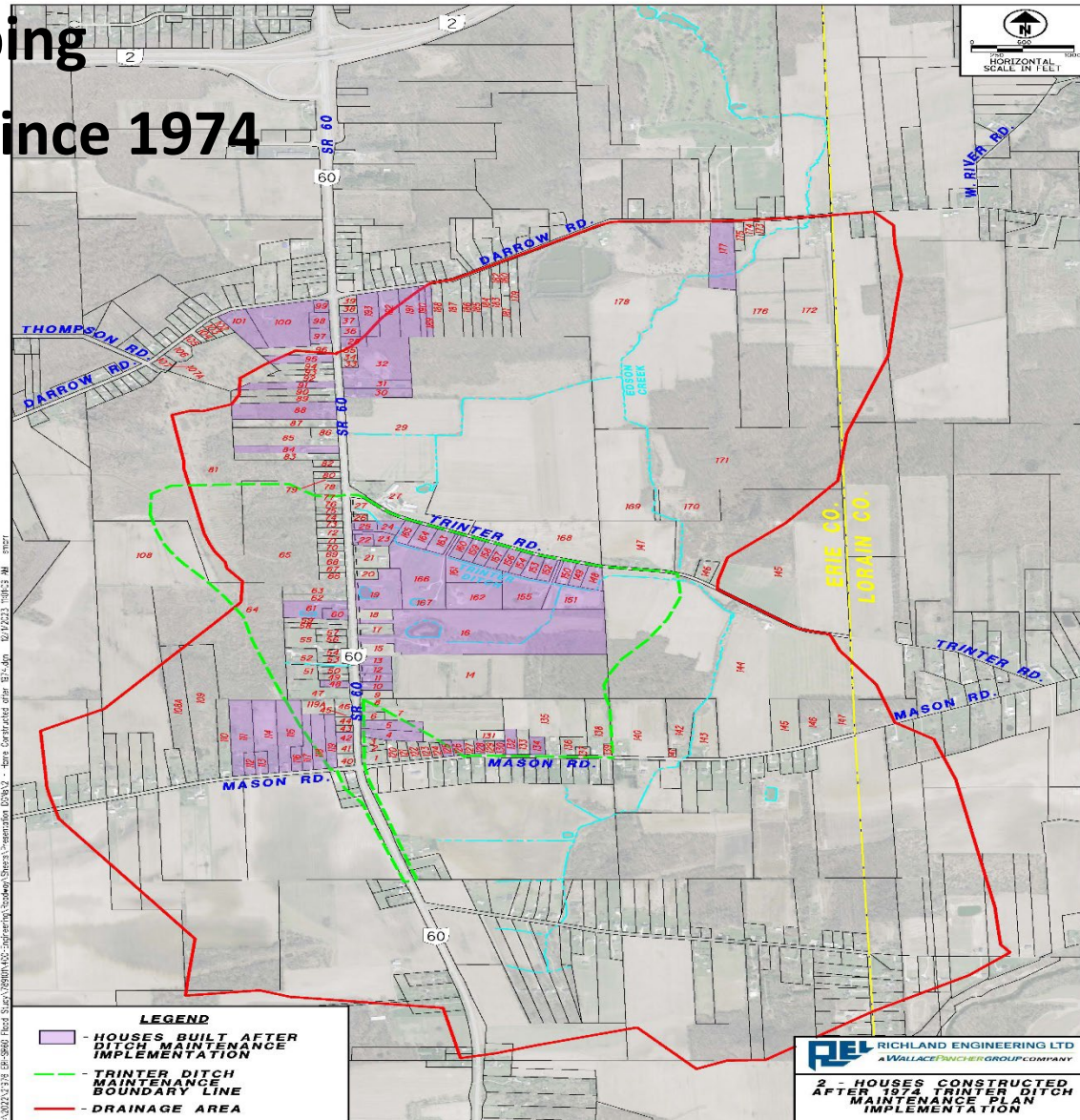
**REL** RICHLAND ENGINEERING LTD  
A WALLACEPANCHEGROUPO COMPANY

6 - HISTORICAL MAPS  
SHOWING CLEARING  
OF HILLSIDE AT  
DARROW RD. AND SR 60



# Existing Conditions

- Historical Mapping
  - Developed since 1974





# Existing Conditions

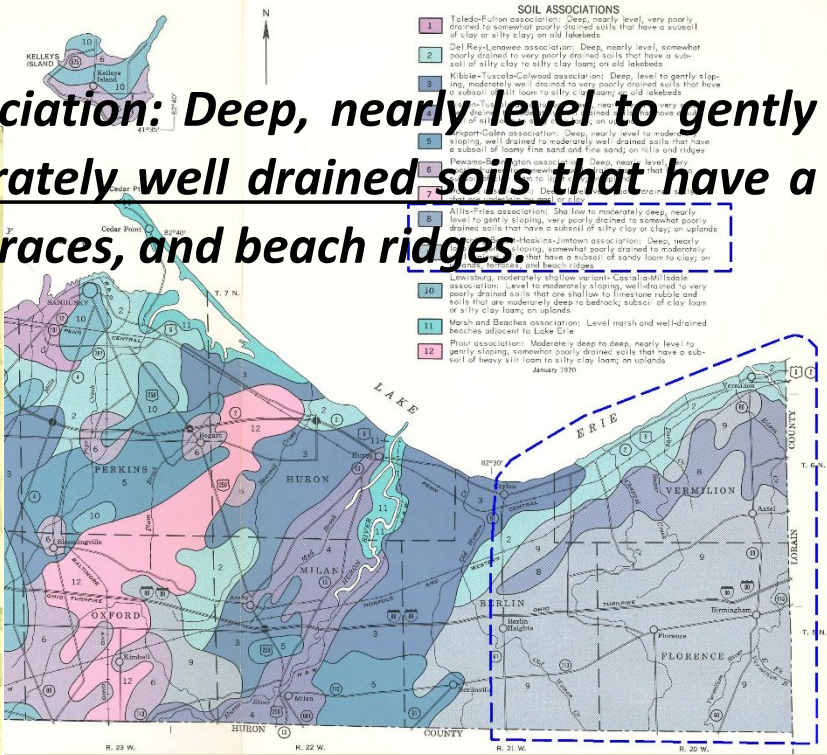
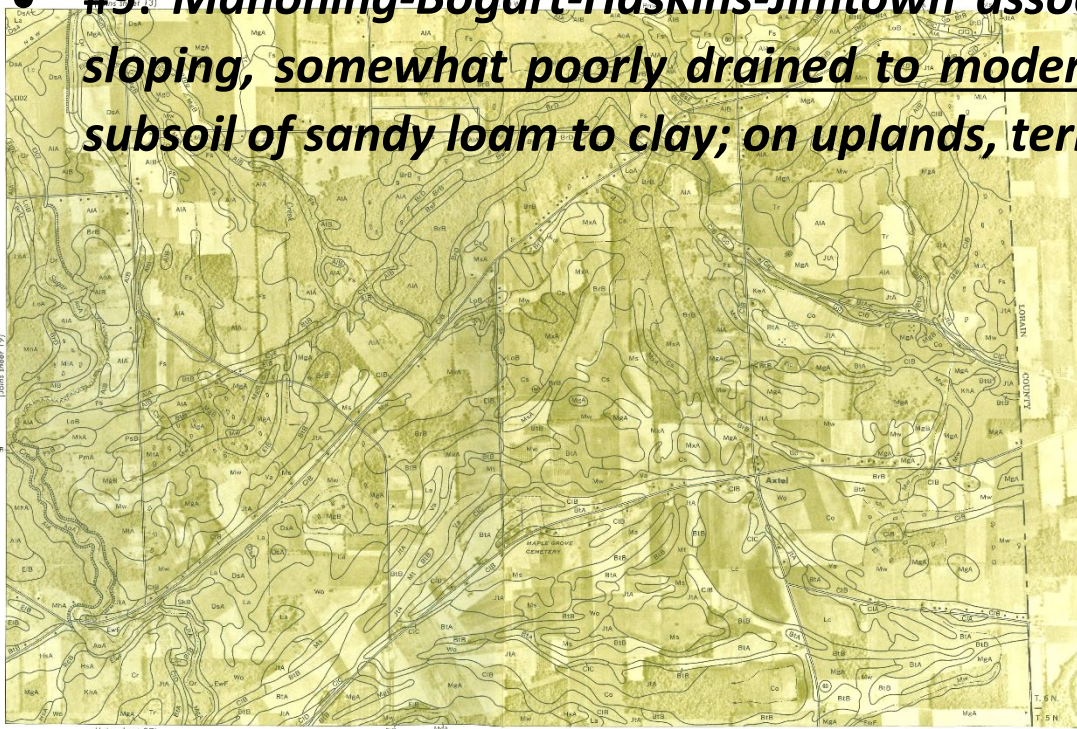
- Soils – Low infiltration

- #8: *Allis-Fries association: Shallow to moderately deep, nearly level to gently sloping, very poorly drained to somewhat poorly drained soils that have a subsoil of silty clay or clay; on uplands.*

- #9: *Mahoning-Bogart-Haskins-Jimtown association: Deep, nearly level to gently sloping, somewhat poorly drained to moderately well drained soils that have a subsoil of sandy loam to clay; on uplands, terraces, and beach ridges.*

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
OHIO DEPARTMENT OF NATURAL RESOURCES,  
DIVISION OF LANDS AND SOIL  
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

GENERAL SOIL MAP  
ERIE COUNTY, OHIO



- SOIL ASSOCIATIONS**
- 1 Toledo-Fulton association: Deep, nearly level, very poorly drained to somewhat poorly drained soils that have a subsoil of clay or silty clay; on old lakebeds
  - 2 Oak River-Lanes association: Deep, nearly level, somewhat poorly drained to very poorly drained soils that have a subsoil of silty clay to silty clay loam; on old lakebeds
  - 3 Kibbie-Tuscola-Caledonia association: Deep, level to gently sloping, moderately well drained to very poorly drained soils that have a subsoil of silty clay loam to silty clay loam; on old lakebeds
  - 4 Kalamazoo association: Deep, nearly level to moderately sloping, well drained to moderately well drained soils that have a subsoil of loamy fine sand and fine sand; on hills and ridges
  - 5 Asport-Galen association: Deep, nearly level to moderately sloping, well drained to moderately well drained soils that have a subsoil of loamy fine sand and fine sand; on hills and ridges
  - 6 Piquette association: Deep, nearly level to moderately sloping, well drained to moderately well drained soils that have a subsoil of loamy fine sand and fine sand; on hills and ridges
  - 7 Piquette association: Deep, nearly level to moderately sloping, well drained to moderately well drained soils that have a subsoil of loamy fine sand and fine sand; on hills and ridges
  - 8 Allis-Fries association: Shallow to moderately deep, nearly level to gently sloping, very poorly drained to somewhat poorly drained soils that have a subsoil of silty clay or clay; on uplands
  - 9 Mahoning-Bogart-Haskins-Jimtown association: Deep, nearly level to gently sloping, somewhat poorly drained to moderately well drained soils that have a subsoil of sandy loam to clay; on uplands, terraces, and beach ridges
  - 10 Lewisburg, moderately shallow percent-Casalia-Milledale association: Level to moderately sloping, well drained to very poorly drained soils that are shallow to limestone rubble and soils that are moderately deep to bedrock; subsoil of clay loam or silty clay loam; on uplands
  - 11 Marsh and Beaches association: Level marsh and well-drained beaches adjacent to Lake Erie
  - 12 Piquette association: Moderately deep to deep, nearly level to gently sloping, somewhat poorly drained soils that have a subsoil of heavy silt loam to silty clay loam; on uplands
- January 1970



# Existing Conditions

- **Hydrology (National Oceanic and Atmospheric Administration)**

- **Storm Events**

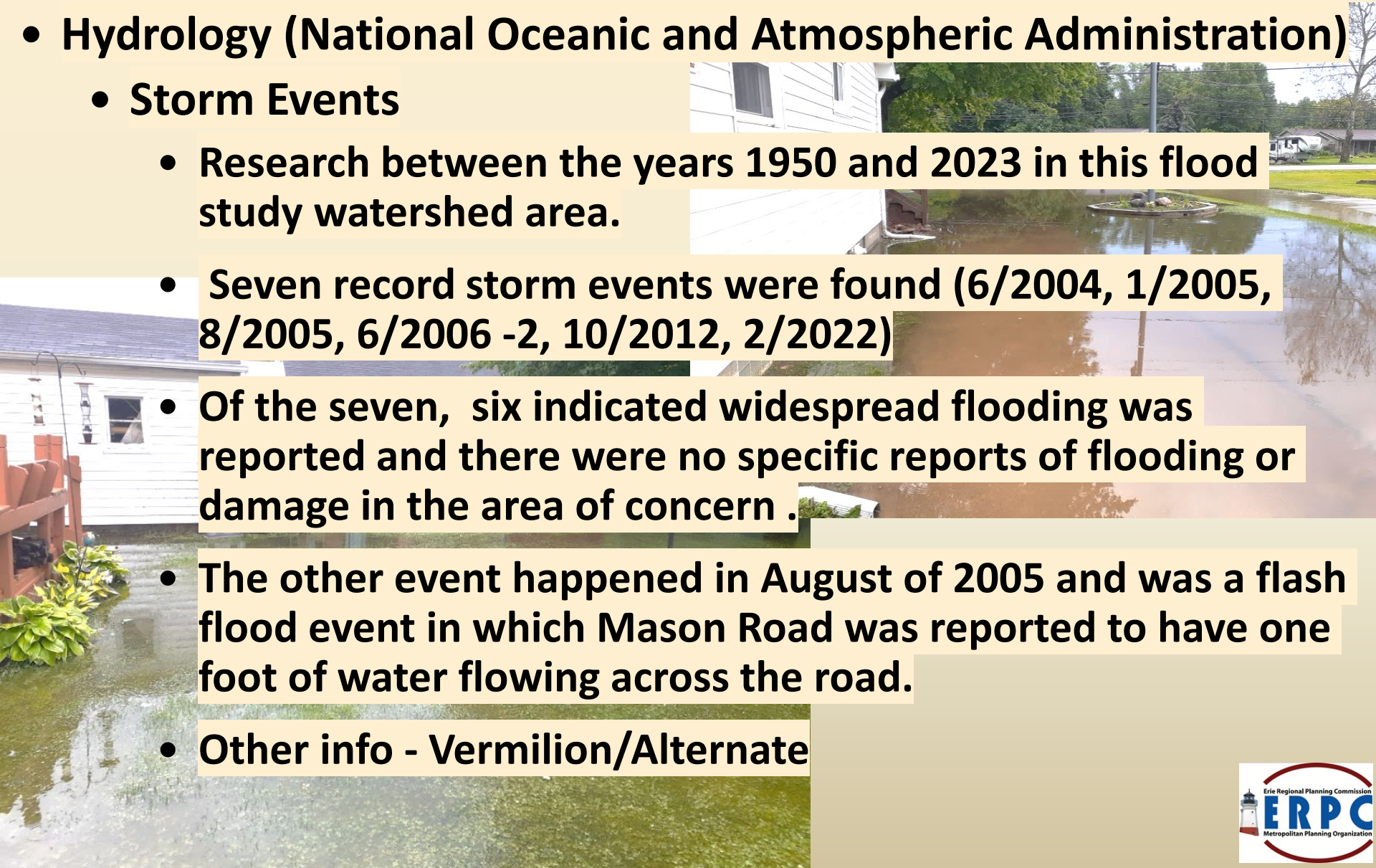
- **Research between the years 1950 and 2023 in this flood study watershed area.**

- **Seven record storm events were found (6/2004, 1/2005, 8/2005, 6/2006 -2, 10/2012, 2/2022)**

- **Of the seven, six indicated widespread flooding was reported and there were no specific reports of flooding or damage in the area of concern .**

- **The other event happened in August of 2005 and was a flash flood event in which Mason Road was reported to have one foot of water flowing across the road.**

- **Other info - Vermilion/Alternate**





# Existing Conditions

- ODOT isolated drainage study – 2012+/-
  - Soil – poor drainage characteristics
  - Various drainage structures – 50 + yrs
  - State Route 60 – multiple options evaluated
  - No Further action
    - Overall Improvement was becoming complex
    - Potential Multiple Improvements
    - Multiple Jurisdictions

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HYDRAULIC STUDY  
ERI-60-6.13  
VERMILION TOWNSHIP  
ERIE COUNTY, OHIO  
PID: 93390



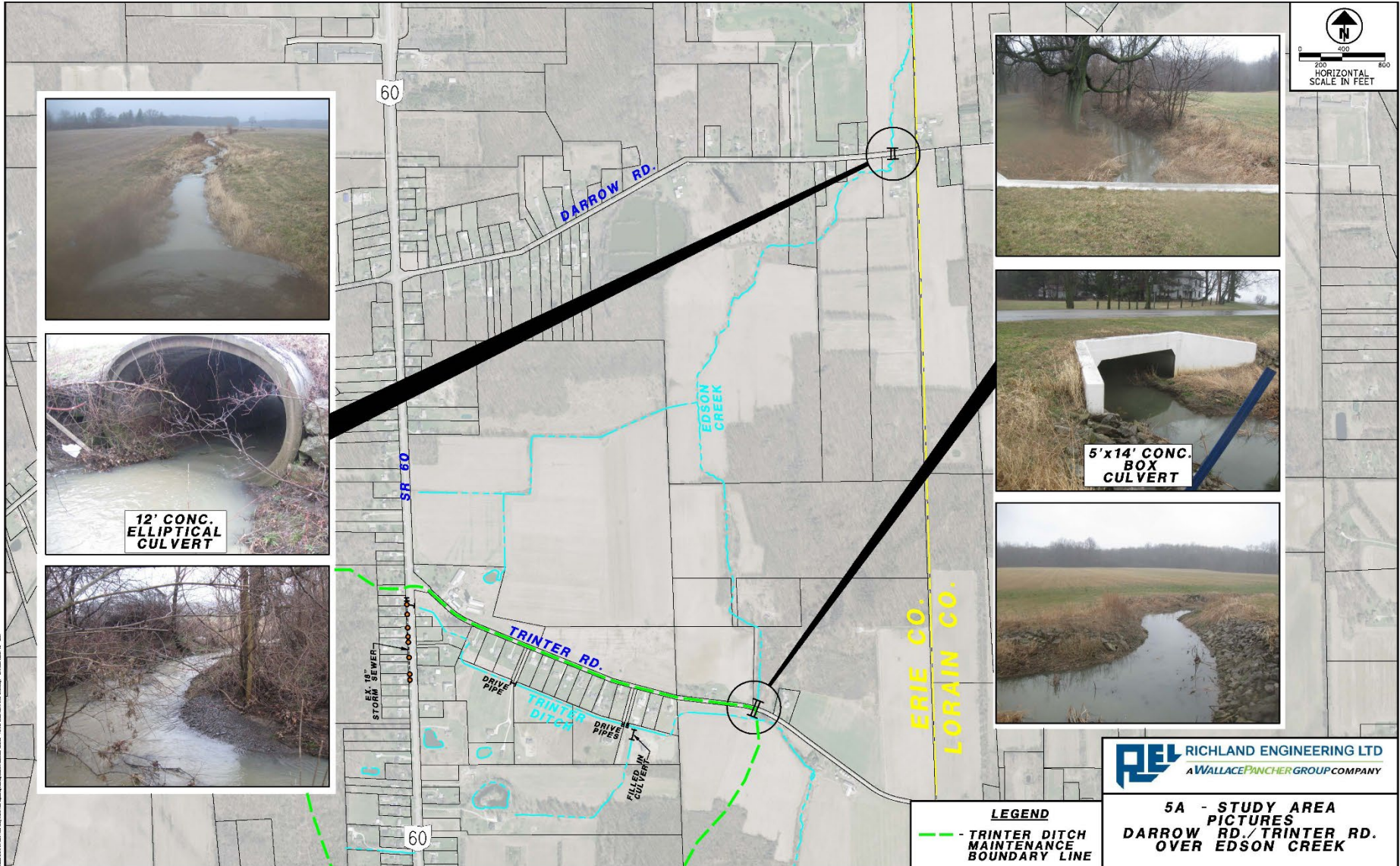
OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 3  
ASHLAND, OHIO

PREPARED BY ENGINEERING ASSOCIATES, INC.  
OCTOBER 2012

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# Location Photos





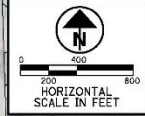
# Location Photos



**WEST SIDE SR 60  
CB TO DITCH  
ALONG SR 60 NORTH**



**EAST SIDE SR 60  
DITCH TO 30"  
CULVERT UNDER  
SR 60**



**LEGEND**  
 --- TRINTER DITCH MAINTENANCE BOUNDARY LINE

**REL** RICHLAND ENGINEERING LTD  
 A WALLACE PANCHER GROUP COMPANY

**5B - STUDY AREA  
 PICTURES BETWEEN  
 RES. #3513 AND #3511**

F:\0322\2926 - 08-2016 - Flood Study\0322\100-Engineering\Drawings\Sheet\A\Restriction - DMS\US - Pictures - DL\0321 - 02/21/2017 PM 3:00



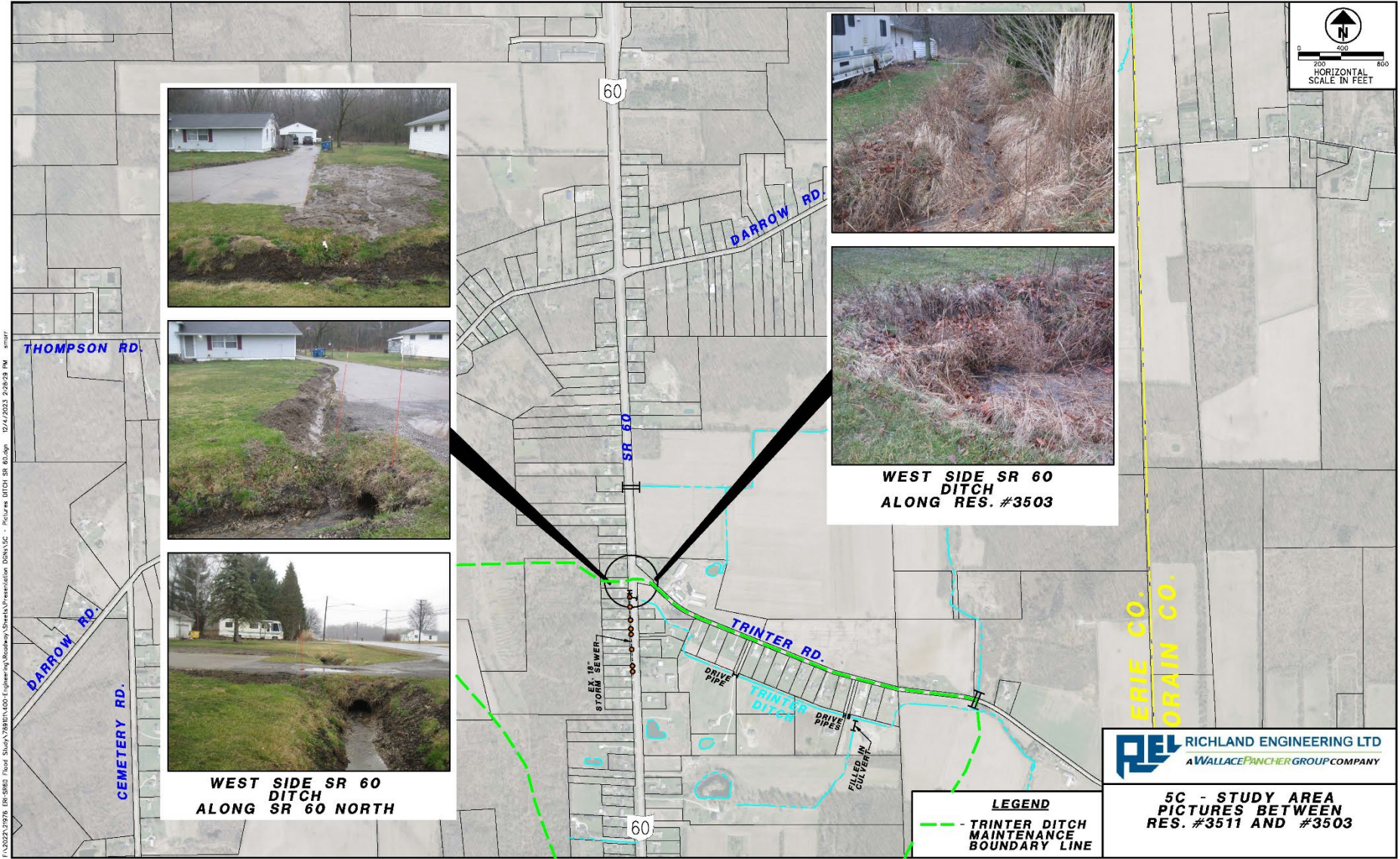
# Location Photos



**WEST SIDE SR 60  
DITCH  
ALONG SR 60 NORTH**



**WEST SIDE SR 60  
DITCH  
ALONG RES. #3503**



**LEGEND**  
 --- TRINTER DITCH MAINTENANCE BOUNDARY LINE

**REL** RICHLAND ENGINEERING LTD  
 A WALLACE PANCHER GROUP COMPANY

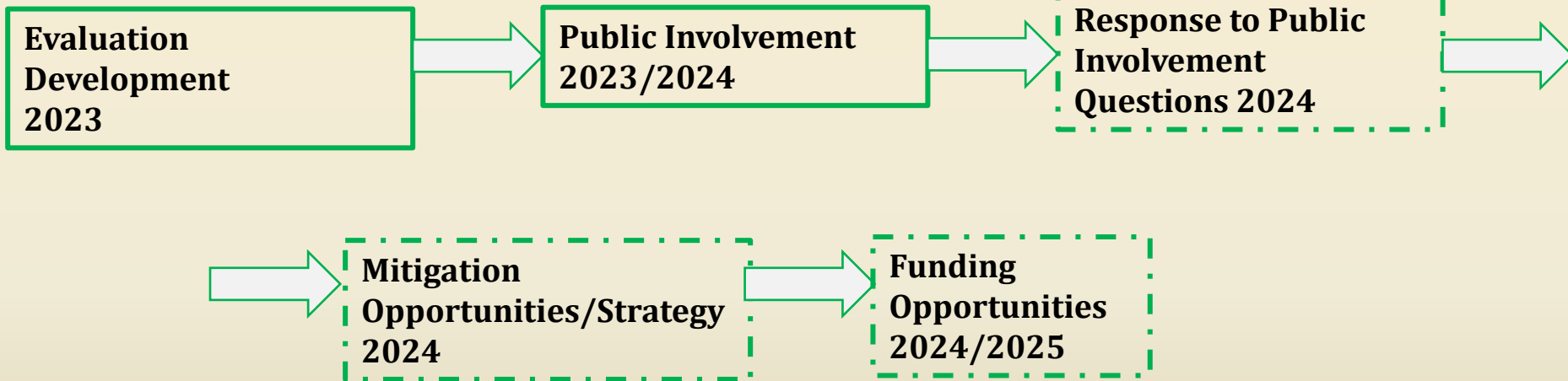
**5C - STUDY AREA  
 PICTURES BETWEEN  
 RES. #3511 AND #3503**

F:\2022\19175 - 19175.dwg - Plot: Study\19175\19175-100-Engineering\Boundary\Sheet\Presentation\024\100 - Pictures\_BITCH\_SR\_60.dwg 12/14/2023 2:25:29 PM smart



# Project timeline

Your input on the study is important and will be used to help guide decision-making throughout all phases of study development.





# QUESTIONS & COMMENTS

Comments on the study should be submitted by January 5, 2024 via the project website, email, mail, and by phone.

**Tim King**

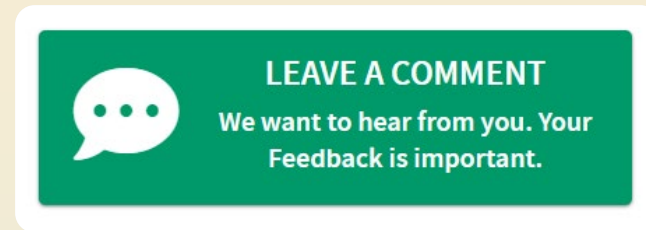
*tking@eriecounty.oh.gov*

Erie Regional Planning Commission

2900 Columbus Avenue #332

Sandusky, Ohio 44870

419.627.7792



**Project Website:** [www.eriecounty.oh.gov/SR60FloodStudy.aspx](http://www.eriecounty.oh.gov/SR60FloodStudy.aspx)

Public participation is solicited without regard to race, color, sex, age, national origin, or disability. *Responses will be provided for all comments submitted about the study.*

*Last updated 12/6/2023*