

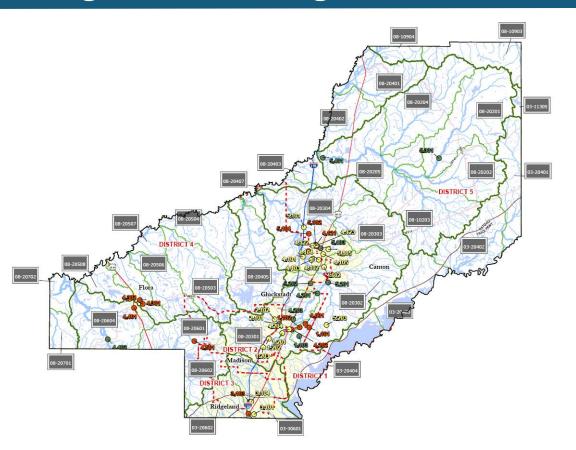
Project Updates

- Countywide Stormwater
 Management Program
- Funding Accomplishments
- Madison County EWP
- City of Canton Drainage
- Bear Creek Watershed Plan & Environmental Assessment





Countywide Stormwater Management Program



- Identified problem areas
- Prioritized needs
- Adopted 5-year Action Plan
- Enabled County to Access Multiple Funding Sources

Funding Accomplishments (Resulting from Action Plan)

- Congressional Authorization
 - Madison County Watershed Program
 - \$10 million through Corps of Engineers
- NRCS Emergency Watershed Protection
 - Following 2022 storm events
 - Cost-shared between Canton and County
- State MCWI Grant
 - City of Canton Drainage
 - Leveraging of ARPA funds
- NRCS Watershed & Flood Prevention
 - Bear Creek Watershed
 - Initial Allocation \$23.5 million

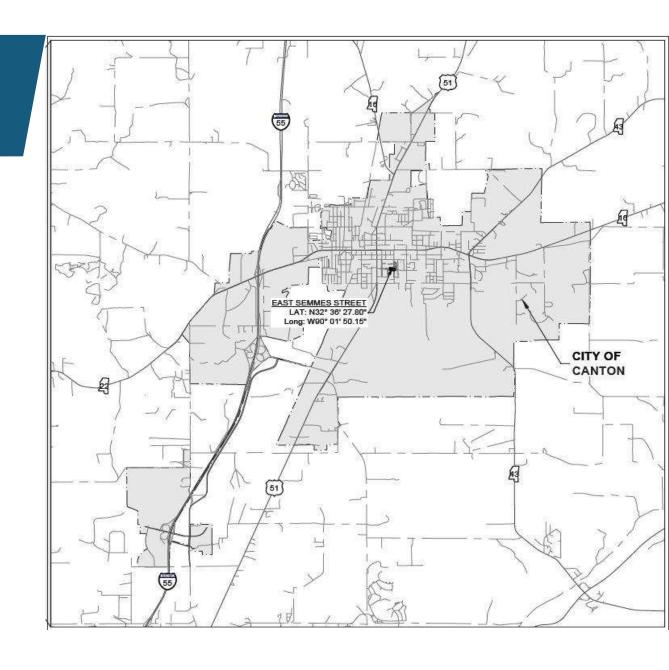


Madison County Emergency Watershed Protection (EWP)





Madison County NRCS EWP Project East Semmes Street





Madison County NRCS EWP Project East Semmes Street

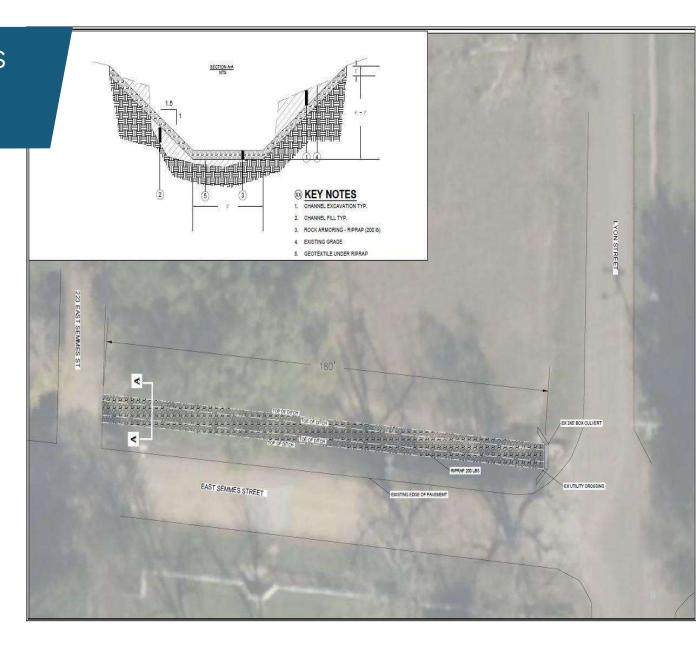








Madison County NRCS EWP Project *East Semmes Street*





City of Canton Drainage

- State MCWI Grant Program
 - City of Canton Drainage
 - Leveraging of ARPA funds
 - \$1.3 million

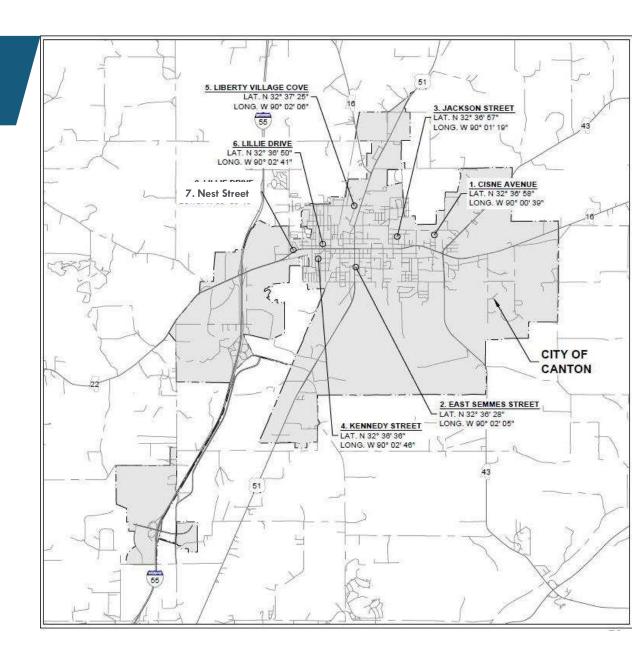




City of Canton Drainage Improvement Projects

- Cisne Avenue
- East Semmes Street
- Jackson Street
- Kennedy Street
- Liberty Village Cove
- Lillie Drive
- Nest Street



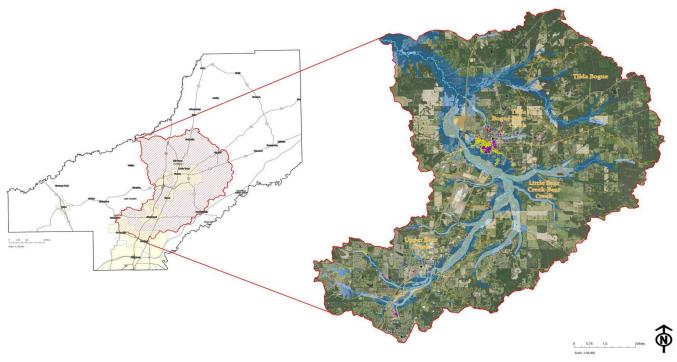


Bear Creek Watershed Plan & Environmental Assessment



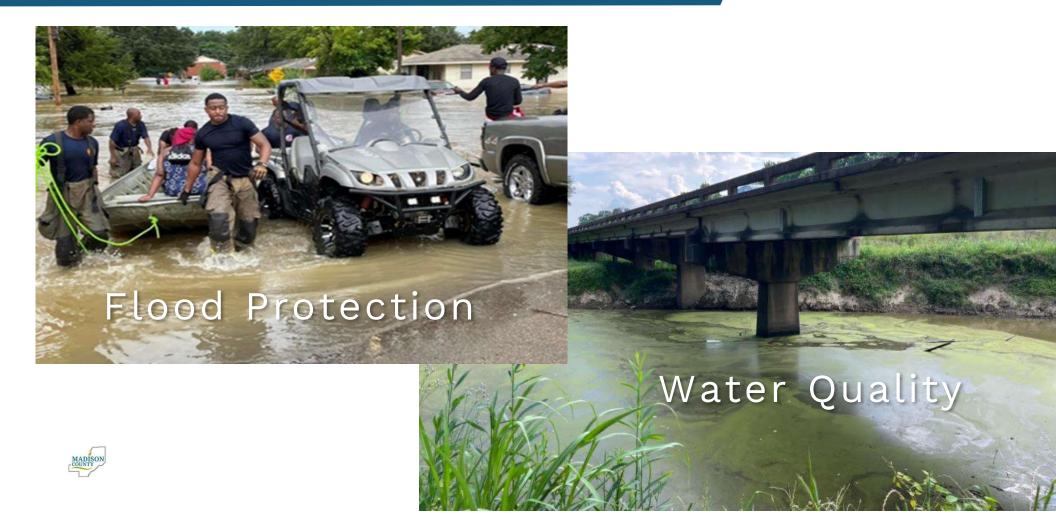


This is the Bear Creek Watershed

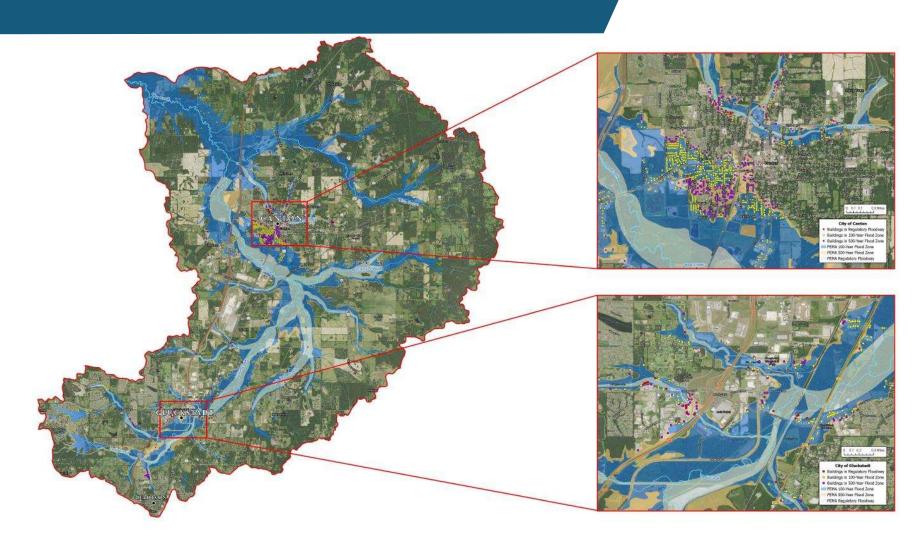




Goals of the Watershed Plan



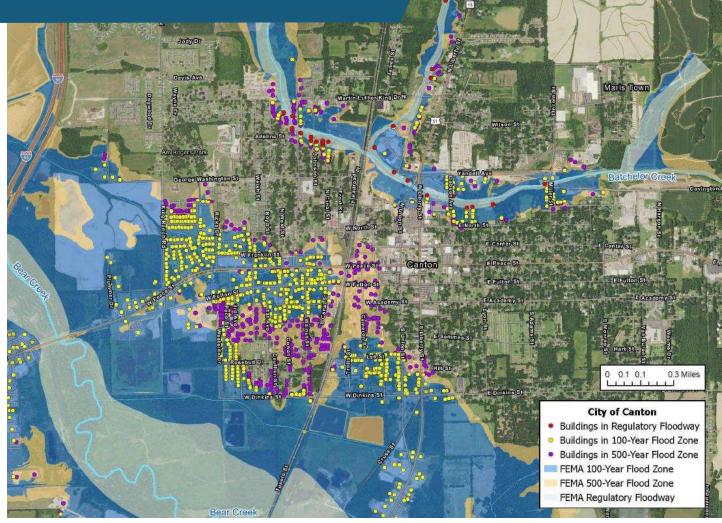
Problem Areas Identified





Structures in the Flood Hazard Area

- Bachelor Creek
- Hot Water Ditch
- Bear Creek



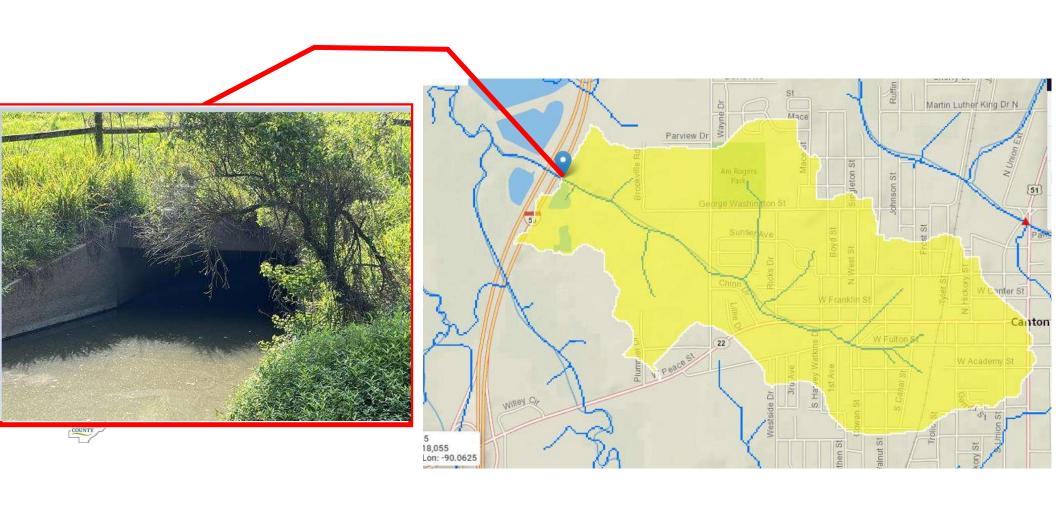


Blockages in the Bear Creek Floodway

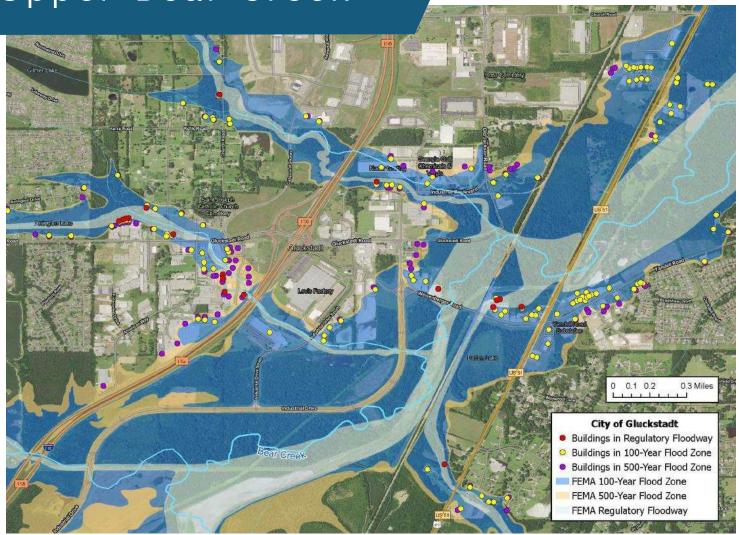




Restrictive Crossings - Hot Water Ditch

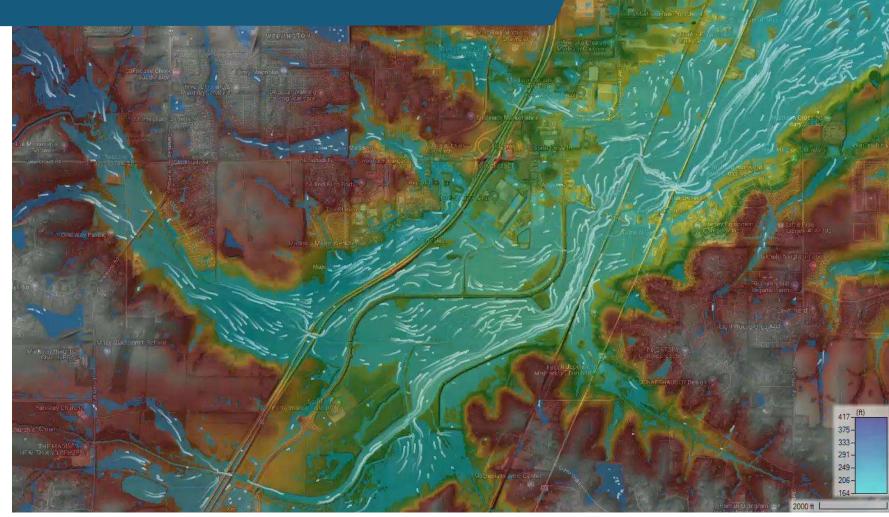


Structures in Upper Bear Creek



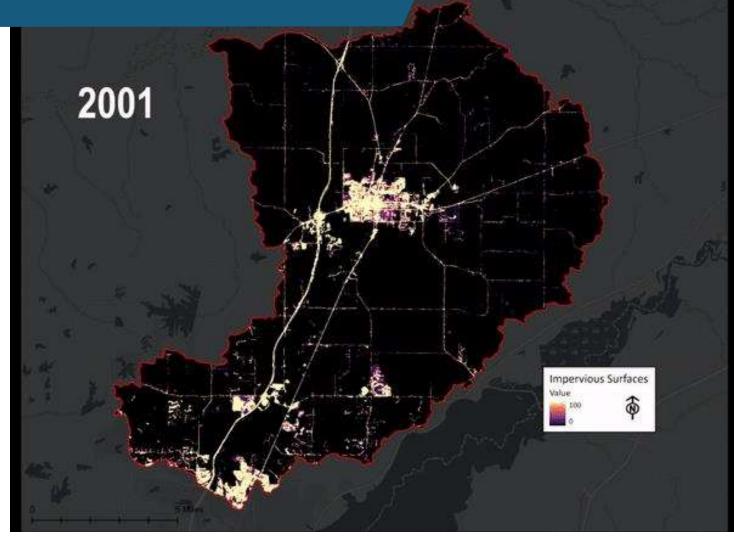


Alterations to Floodway - Upper Bear





Impervious Area in the Watershed





Possible Solutions to Reduce Flooding

Reduce the Flood Water

- Structural solutions
- Dams or Reservoirs
- Detention or Retention Ponds

Remove the Water Faster

- Upgrades to Existing Conditions
- Channel Stabilization
- Channel Widening or Straightening

Remove the Risks

- Property buy-out
- Relocation
- Floodplain restoration



Alternatives

Structural

Flood control structures - dams

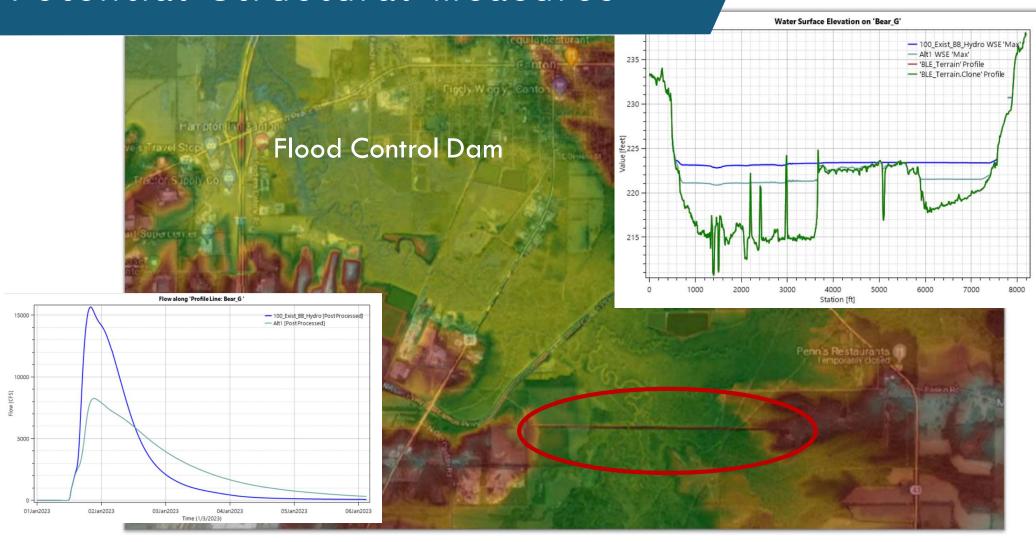
Flood protection structures — levees, floodwalls

Capacity enhancement – channel modifications, widening





Potential Structural Measures



Alternatives

Non-Structural

Watershed best management practices (BMPs) - cover crop, terracing, stream buffers

Flood buyout or easements – removing the flood hazard from the floodplain

Relocations – relocating floodprone structures

Policy measures – floodplain development, land use

Preservation/Restoration – stormwater parks, wetland preserves, riparian zones





Potential Non-Structural Measures

Preservation and Restoration Area

Reduce peak flows

- Preserve & restore wetlands
- Maintain natural, permeable ground cover
- Create public use & recreational areas



LEGEND

1.) BATH HOUSE / RESTROOMS

2.) BOARDWALK 10'

3.) BOAT LAUNCH NON-MOTORIZED

4.) CAMPING / RV

6.) CAMPING / RV

6.) CAMPING / TENTS

CAMPING / TREE HOUSE CABINS
 CHANNEL
 CHANNEL STORAGE

10.) CONTROL STRUCTURE / WEIR

15.) MAINTENANCE FACILITY

16.) MARSH RESTORATION

17.) MULTI-PURPOSE TRAIL 10' with interpretive signage and seating areas.

18.) PARK OFFICE with event rental, meeting rooms, rain garden and restrooms.

 PICNIC GROUNDS with playground, restrooms and shelter.

 PUBLIC PARKING with bioswales and permeable pavement.

 RECREATIONAL AREA with

 RECREATIONAL AREA with event garden/plaza, festival grounds, food court, frisbee golf, group pavilions, multipurpose fields and parking.

19.) PARK ROAD 20.) PHOTO BLINDS

22.) PIER

26.) SHELTER
27.) ZIP LINE COURSE

11.) DRIVEWAY12.) ENTRANCE SIGN13.) LAKE



Potential Non-Structural Measures

Preservation and Restoration Areas







Potential Non-Structural Measures

