Bullerman Drain Improvements

Maplewood Downs – Maplewood Terrace

Public Meeting

June 4th , 2024

CITY UTILITIES
WATER THAT WORKS

Meeting Agenda

STORMWATER

- City Utilities – Stormwater Program
- Neighborhood Drainage History
- Drainage Issues
- Proposed Solution
- Schedule
- Question and Answers
- Small Group Discussion/Detailed Drawing Review

History of Stormwater Utility

- Stormwater Utility established - 1991
- NPDES Permit Phase II implementation - 2004

What does the Stormwater Utility do?

STORMWATER

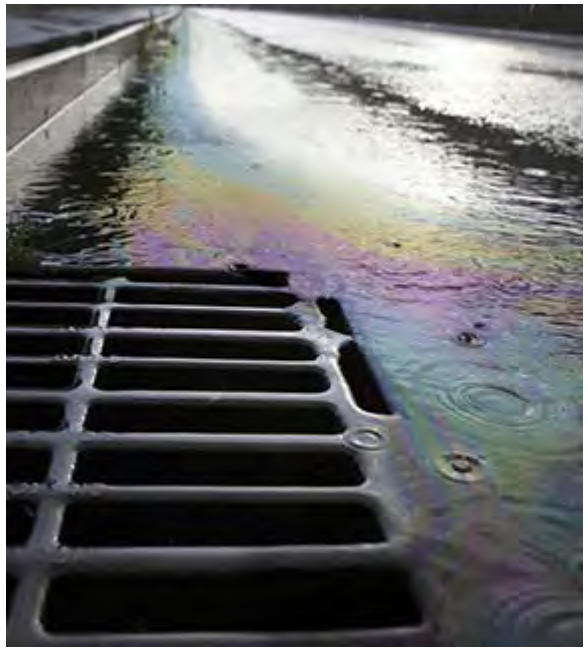
- Every property contributes to runoff
- Property Protection
- Water Quality Protection

CITY UTILITIES
WATER THAT WORKS

2020 Stormwater System Size

STORMWATER

- 691 miles of storm pipe
- 74 miles of major ditches
- 20,503 inlets
- 756 catch basins
- 10,489 storm manholes
- Detention facilities
- 92 sq. miles service area



CITY UTILITIES
WATER THAT WORKS

Clean Drains Fort Wayne 2025

STORMWATER

CLEAN DRAINS FORT WAYNE

BE A STORM DRAINER!

Be a lcoal hero. Help clear trash and debris from your storm drains to help keep our rivers healthy and to prevent flooding in your neighborhoods!

Register today and receive a FREE cleaning kit and t-shirts for you, family and friends!

ONLY RAIN IN THE DRAIN.

CleanDrainsintheFort.org

CITY UTILITIES
WATER THAT WORKS

utilities.cityoffortwayne.org

CATCHING RAIN

STORMWATER

CATCHING RAIN

CatchingRainFW.org

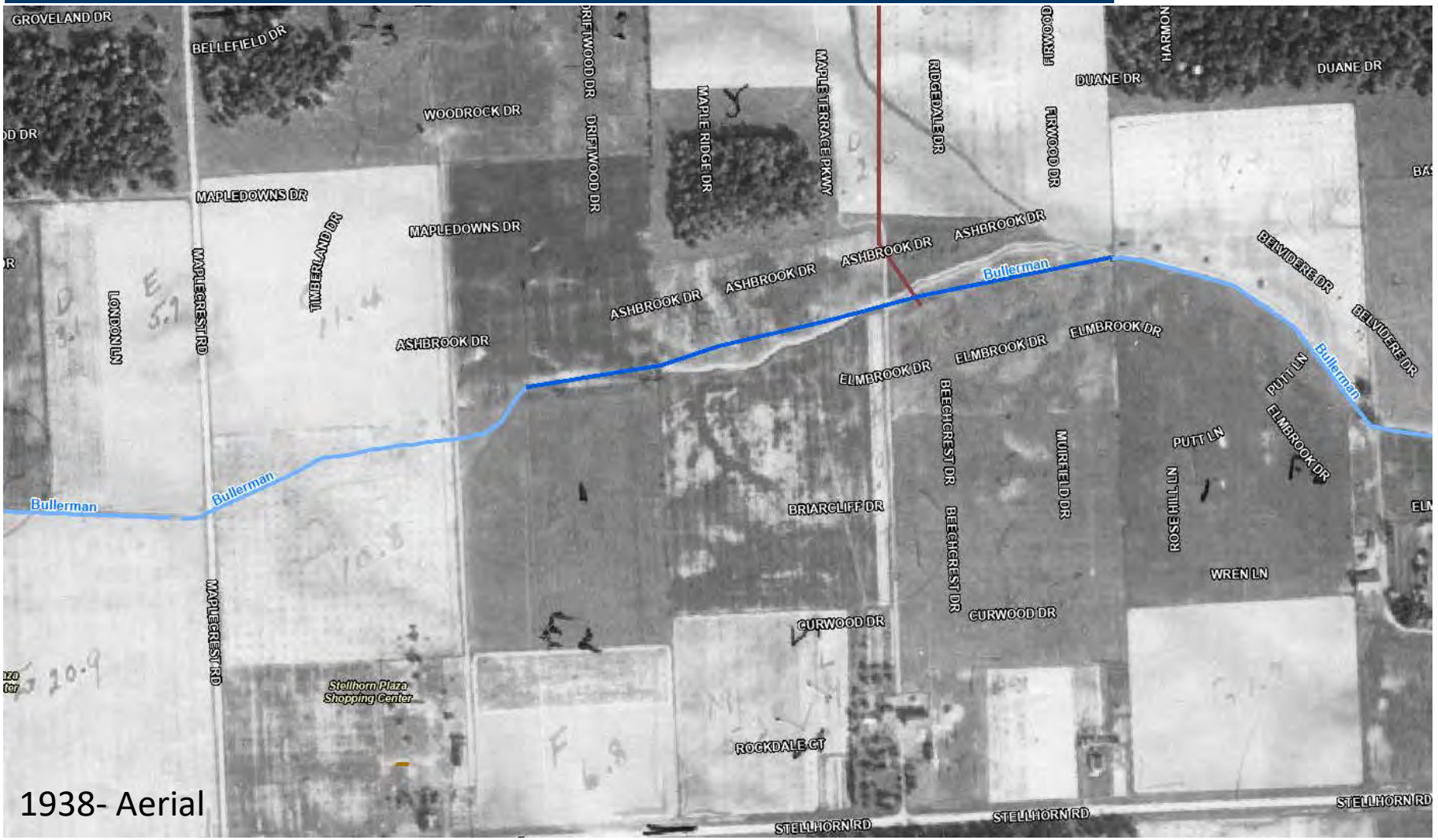
-Build & register your rain garden

-Rain Garden workshop classes

-Learn stormwater management practices

CITY UTILITIES
WATER THAT WORKS

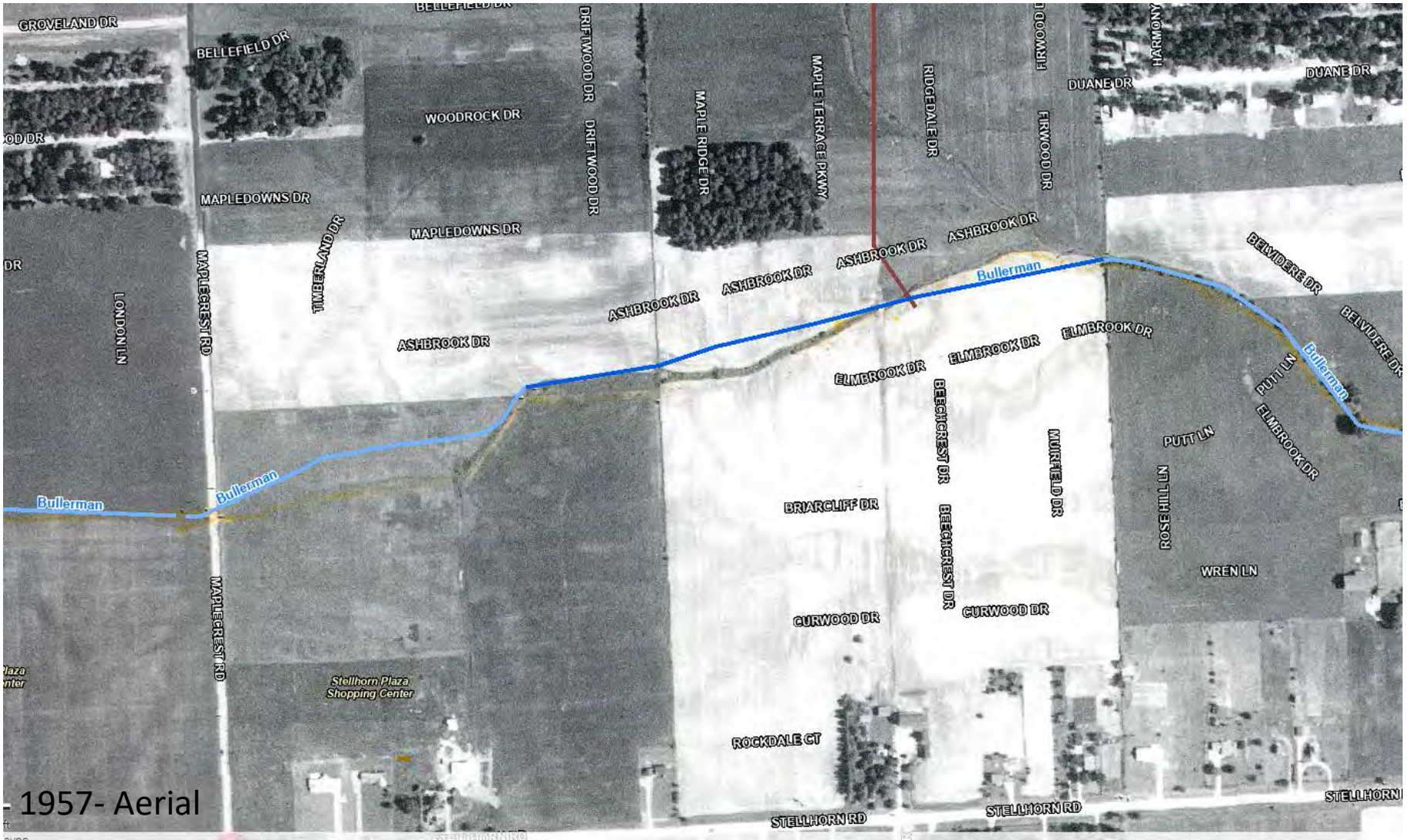
Bullerman Drain History



1938- Aerial

Bullerman Drain History

STORMWATER



- 1957- Aerial

Bullerman Drain History

STORMWATER

1964- Aerial

Bullerman Drain History

1972- Aerial

Bullerman Drain History

STORMWATER

Drain watershed developed with minimal stormwater detention

1986- Aerial

Stormwater System Today

Drainage Complaints

STORMWATER

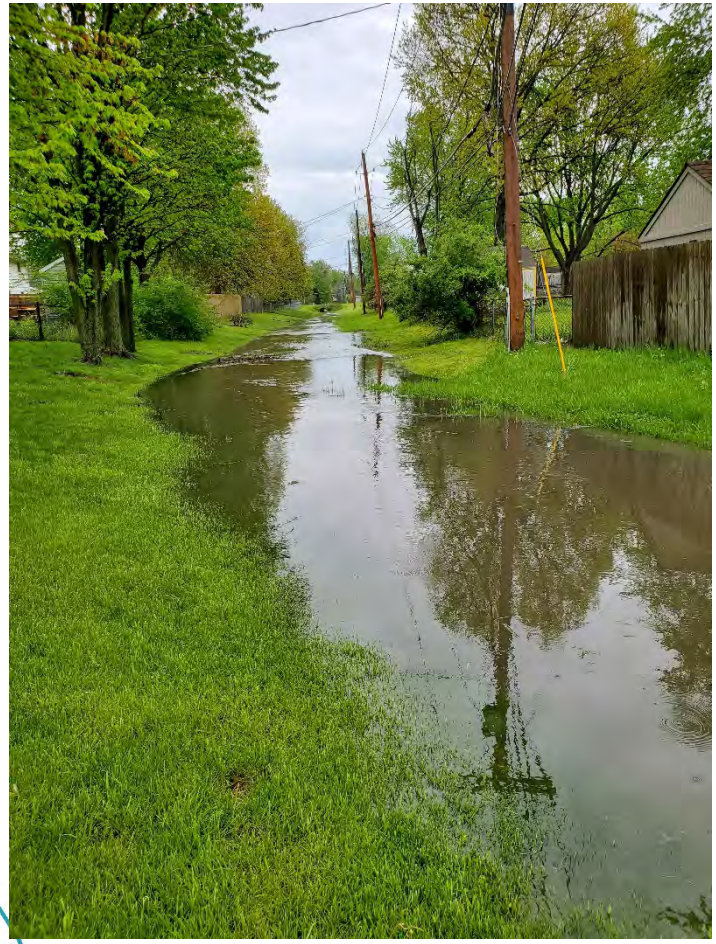
Reminder – Call 311 to report issues

CITY UTILITIES
WATER THAT WORKS

utilities.cityoffortwayne.org

Drainage Issues

STORMWATER



CITY UTILITIES
WATER THAT WORKS

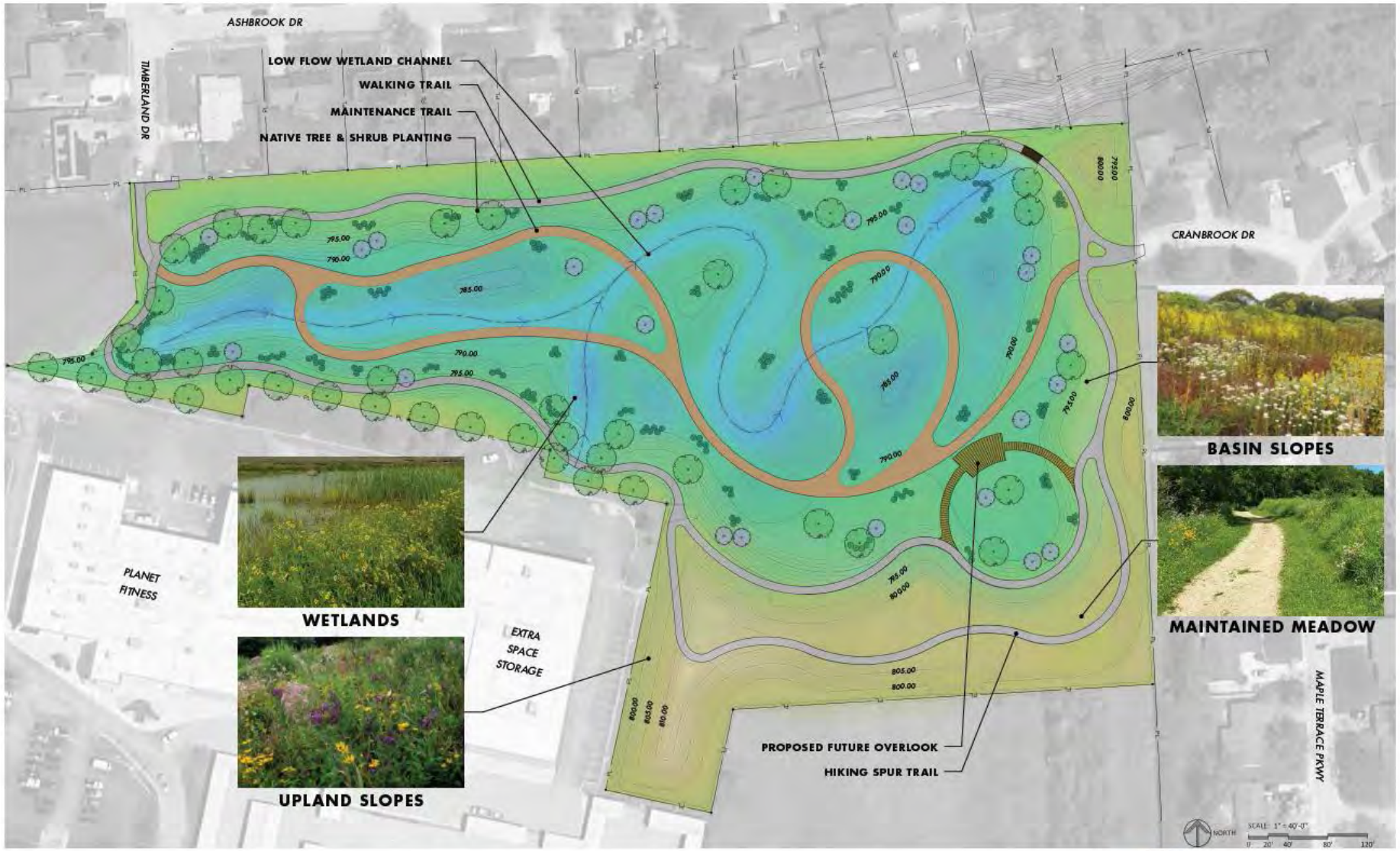
Drainage Issues

STORMWATER

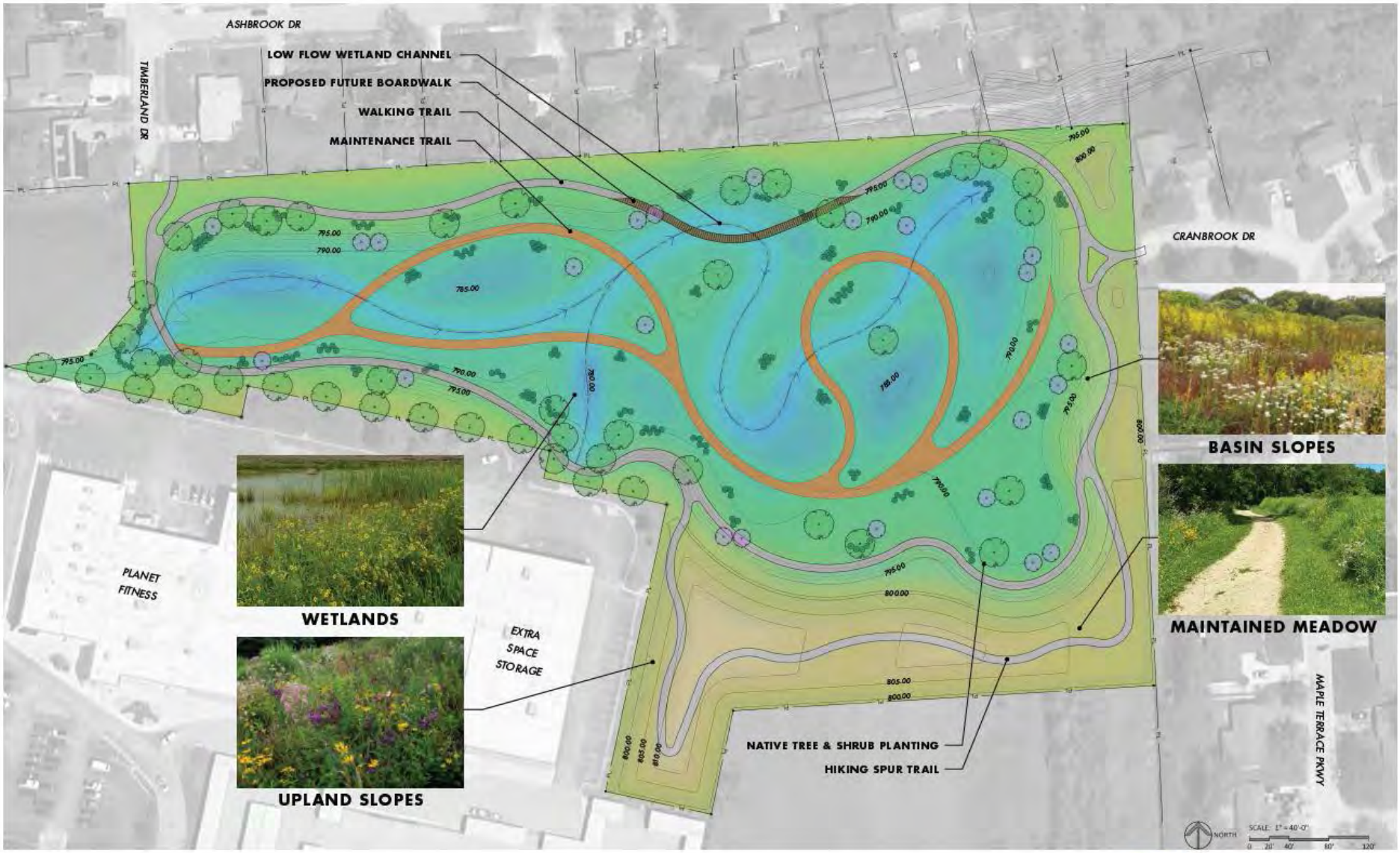
CITY UTILITIES
WATER THAT WORKS

Proposed Solution

In –Line Storage Wetland – Option A



In –Line Storage Wetland – Option B



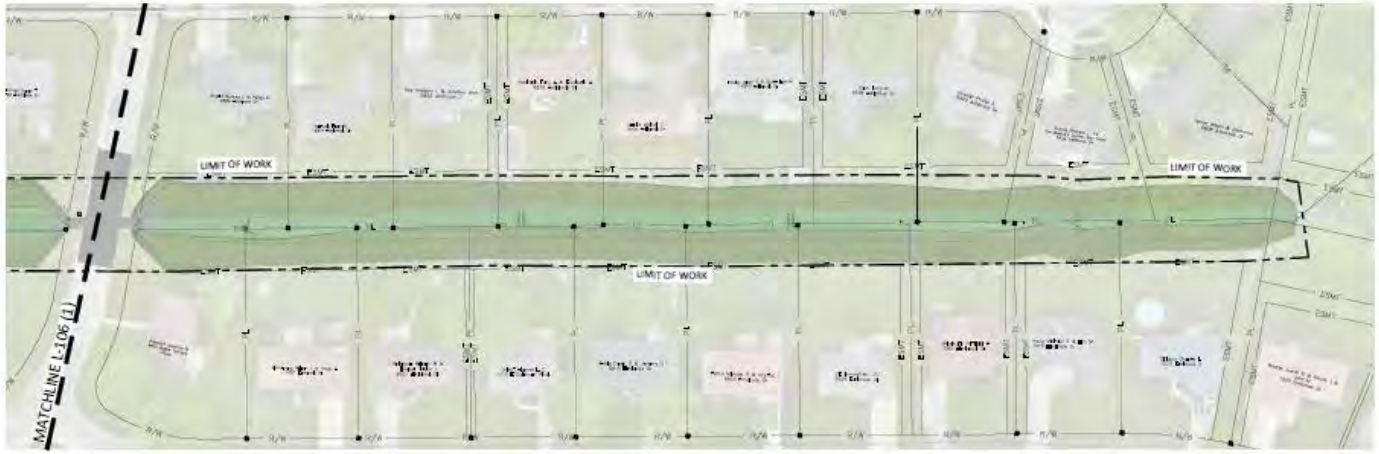
PROPOSED SITE PLAN: OPTION B

MAY 23, 2025

BULLERMAN DRAINAGE IMPROVEMENTS | CITY OF FORT WAYNE INDIANA | ARCADIS

Back Yard Work Limits

1 DAYLIGHT CHANNEL WEST - SEEDING PLAN
1" = 40'-0"



2 DAYLIGHT CHANNEL EAST - SEEDING PLAN
1" = 40'-0"

SEEDING LEGEND

	LIMIT OF WORK
	LOW FLOW CHANNEL
	BASIC WETLAND SEED MIX
	SHORE STABILIZATION SEED MIX
	UPLAND - SIDE SLOPE MIX
XXX XXX	PLANT SPECIES CALLOUT & QUANTITY

SEEDING NOTES:

1. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED WITHIN THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, ANSI Z-60.1.
2. ALL NEW PLANTS SHALL BE CONTAINER GROWN UNLESS OTHERWISE NOTED ON THE PLANT LIST.
3. THE GENERAL CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
4. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE OWNER'S REPRESENTATIVE AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
5. THE GENERAL CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER'S REPRESENTATIVE.
6. NO TREES, SHRUBS, OR GROUNDCOVER SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BEAR SHAME RELATIONSHIP TO FINISH GRADE AS THEY BORE TO PREVIOUS GRADE. SEE DECIDUOUS/EVERGREEN TREE PLANTING DETAIL.
7. STAKE OR MARK LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF PLANTING.
8. ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED, PRUNED AND FERTILIZED PER THE SPECIFICATIONS.
9. ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORKSHALL RECEIVE FOUR INCHES (4") TOPSOIL AND SEED AS SPECIFIED.
10. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, AND BRANCHING HABIT ONLY AS APPROVED BY OWNER'S REPRESENTATIVE.
11. ALL AREAS TO BE SEEDED SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN.
12. PREPARE ALL SHRUB BEDS WITH PLANTING SOIL TO A MINIMUM DEPTH OF 18" OR MATCHING THE DEPTH OF SHRUB ROOT BALLS, WHICHEVER IS GREATER. PLANTING SOIL SHALL BE CONTINUOUS THROUGHOUT ENTIRE PLANT BED.

Back Yard Work Limits

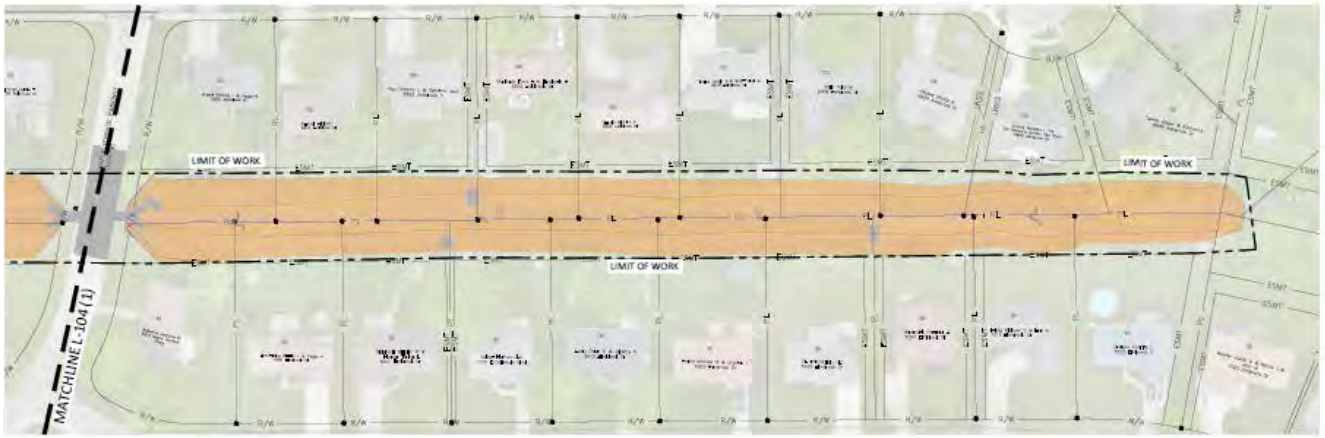
1 DAYLIGHT CHANNEL WEST - PROPOSED SOILS PLAN
1" = 40'-0"

STOCKPILED SOILS

SYMB.	SOIL TYPE	EST. STOCKPILED QUANTITY (CY)	EST. QUANTITY INSTALLED (CY)
	STOCKPILED WETLAND SOIL (SW)	965 CY	900 CY
	STOCKPILED TOPSOIL (ST)	3,572 CY	3,500 CY
	STOCKPILED SUBSOIL (SS)	63,000 CY	25,000 CY
	STOCKPILED MAINTENANCE TRAIL SOIL (MT)		400 CY
	STOCKPILED DAYLIGHT CHANNEL SOILS (DC)	1,111 CY	1050 CY

PROPOSED SOILS NOTES:

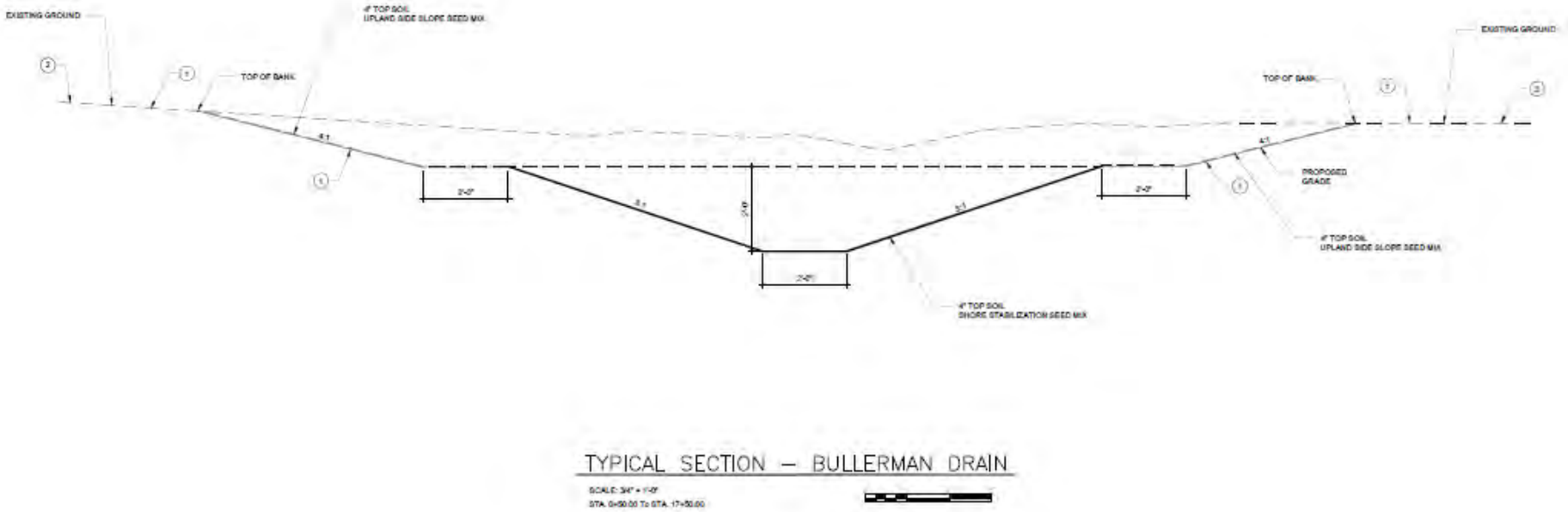
1. PROPOSED SOILS PLAN ILLUSTRATES LOCATION FOR EACH TYPE OF STOCKPILED SOIL TO BE PLACED IN THE PROJECT AREA.
2. STOCKPILED WETLAND SOIL (SW) SHALL BE PLACED AT 6" DEPTH WITHIN BANKFULL LOCATIONS AND DEPRESSIONS SHOWN IN THE PLAN.
3. STOCKPILED TOPSOIL (ST) SHALL BE PLACED AT 4" DEPTH ON BASIN PERIMETER SLOPES AS SHOWN.
4. STOCKPILED SUBSOIL (SS) SHALL BE PLACED AT BERM LOCATIONS AS SHOWN. PLACE SUBSOIL IN 8" LIFTS UNTIL PROPOSED SUBGRADE ELEVATION IS REACHED. COMPACT EACH LIFT PRIOR TO INSTALLING NEXT LIFT. BERM SUBGRADE ELEVATION SHALL BE 4" BELOW FINISHED GRADE, TYPICAL.



2 DAYLIGHT CHANNEL EAST - PROPOSED SOILS PLAN
1" = 40'-0"

Open Channel – Proposed Cross Section

STORMWATER



TYPICAL SECTION – BULLERMAN DRAIN

SCALE: 3/4" = 1'-0"
STA. 0+50.00 To STA. 17+50.00

CITY UTILITIES
WATER THAT WORKS

New Storm Outfalls from Neighborhood

Current example outfall from project area

Storm Outfalls from neighborhood drainage will look similar to this.

CITY UTILITIES
WATER THAT WORKS

Example Construction Photos

STORMWATER

CITY UTILITIES
WATER THAT WORKS

utilities.cityoffortwayne.org

Example Stormwater Wetland Pictures

STORMWATER

CITY UTILITIES
WATER THAT WORKS

Example Daylighted Channel

Example Stockpile Areas

STORMWATER

Lakeshore Park 'The Arch'

Knoxville, TN

CITY UTILITIES
WATER THAT WORKS

Example Stockpile Areas

STORMWATER

Renaissance Park
Chattanooga, TN

CITY UTILITIES
WATER THAT WORKS

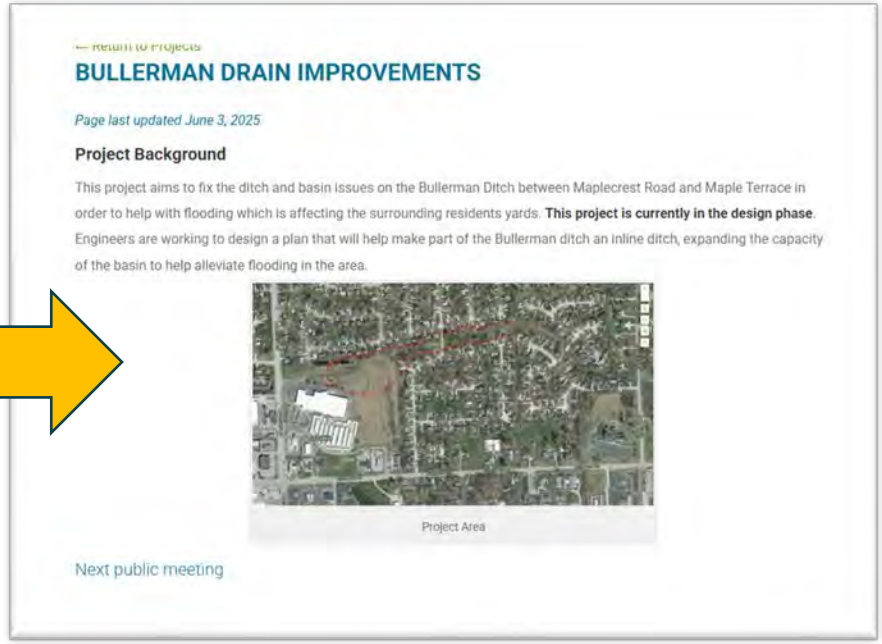
Next Steps – Anticipated Schedule

STORMWATER

- Complete Final Design, Permitting, and Utility Coordination
- Complete drain hydrologic modeling
- Drain Reconstruction hearing
- Anticipate bidding to start late summer/early fall
- Construction anticipated to start late fall and continue through Summer 2026

Project info will be on City Utilities Website (including this presentation after the meeting)

utilities.cityoffortwayne.org/bullerman



CITY UTILITIES
WATER THAT WORKS

Questions

Kristen Buell, PE
Wet Weather Engineer
City of Fort Wayne – Utilities Engineering
427-2583
Kristen.buell@cityoffortwayne.org

Hannah Allen
Program Manager – Watershed Management and Sustainability
City of Fort Wayne – Utilities Engineering
427-5021
hannah.allen@cityoffortwayne.org