TSPLOST 2023 Project 01
Winterville Storm Drainage Improvements Project
Proposed Preliminary Design

MAYOR & COMMISSION WORK SESSION

August 13, 2024

Category 2 Item

Prepared by:

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- Mike Kajder, TSPLOST Project Administrator
- Stephen Bailey, T&PW Director

Presentation Purpose and Agenda

Purpose: To present the Proposed Preliminary Design to Mayor and Commission (M&C), in keeping with the approved Capital Project Processes. The request for M&C approval of the Proposed Preliminary Design, authorization for staff to acquire necessary right-of-way and easements, and approval to advance the project to the Bid & Award Phase will be in front of M&C at the next voting meeting.

- Project History
- User Group & Initial Project Statement
- Project Area Map
- Proposed Preliminary Design
- Potential Impacted Land Owners & Area
- Budget Summary
- Project Limits with Available Budget
- Next Steps
- Questions & Comments

History - Project 01 – Winterville Storm Drainage Improvements

- On May 24, 2022, TSPLOST 2023 Program Referendum was approved.
- On February 27, 2023 Tier Funding Schedule approved. Project funded Tier 1-3 (FY23-FY25).
- On May 26, 2023, User Group (UG) Kick-Off Meeting held.
- On September 14, 2023, the UG selected Prime Engineering Inc., as the Project designer.
- On January 2024 the Proposed Project Concept was presented to the Winterville City Council, TSPLOST Oversight Committee and the Mayor and Commission (M&C).
- On February 6, 2024, M&C approved the Project Concept.
- On February 13,2024, the Athens Cultural Affairs Commission (ACAC) recommended the Project was not appropriate for Public Art.
- Between February 2024 and August 2024, UG and the Design Professional advanced the approved Project Concept to the Proposed Preliminary Design including: storm drainage systems, project phasing and cost estimate.
- On July 30, 2024, TSPLOST Staff met with Potentially Affected Property Owners along the project route to discuss potential impacts to their property.

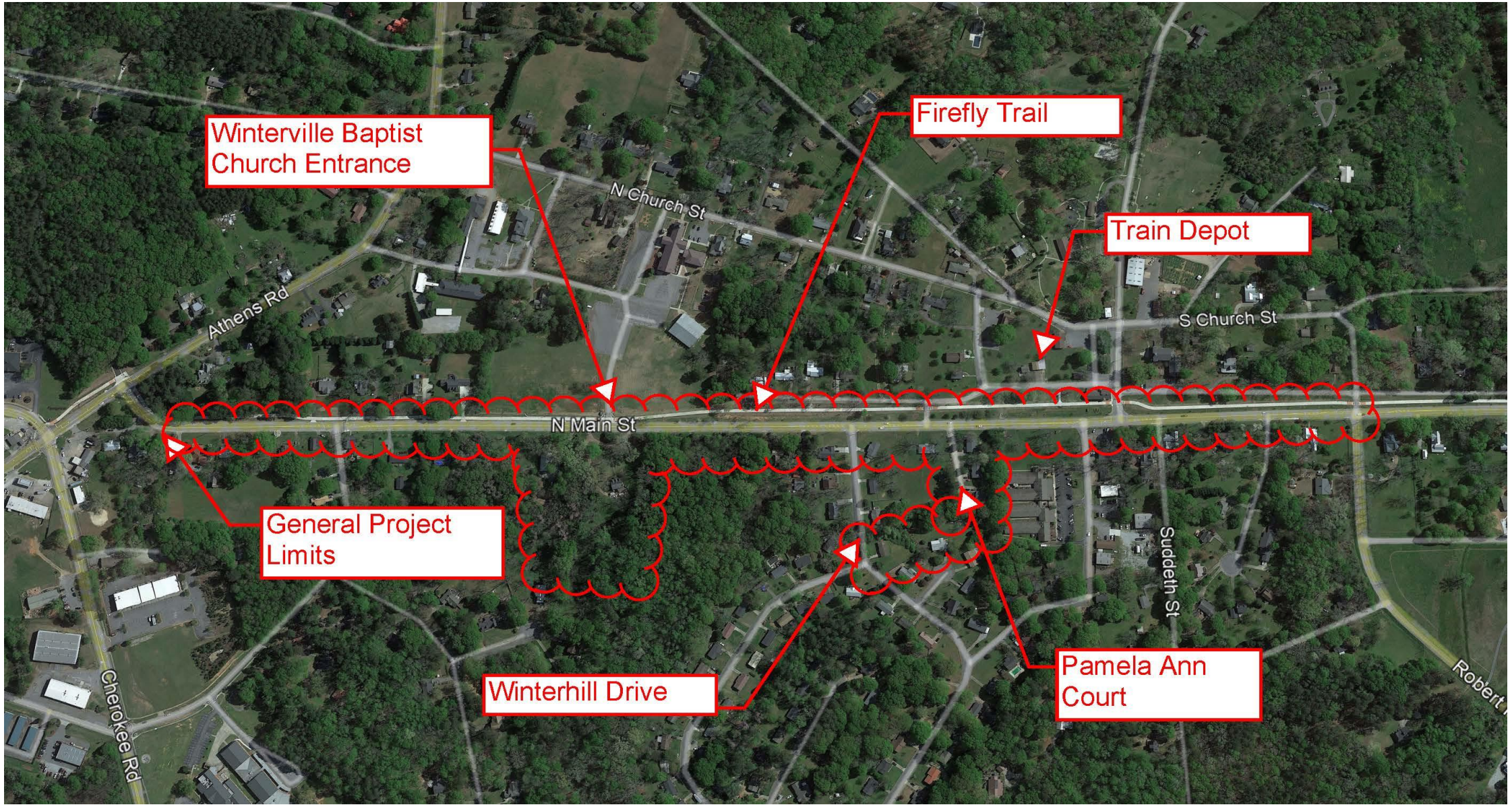
TSPLOST 2023 Project 01 - User Group & Initial Project Statement

- Todd Stevenson – ACCGov TPW, Storm Water Administrator
- Steve Rice – City of Winterville (staff)
- Todd Horsley – City of Winterville (resident)
- Wayne Mead – ACCGov TPW, Superintendent
- Tom Doonan – City of Winterville (staff)

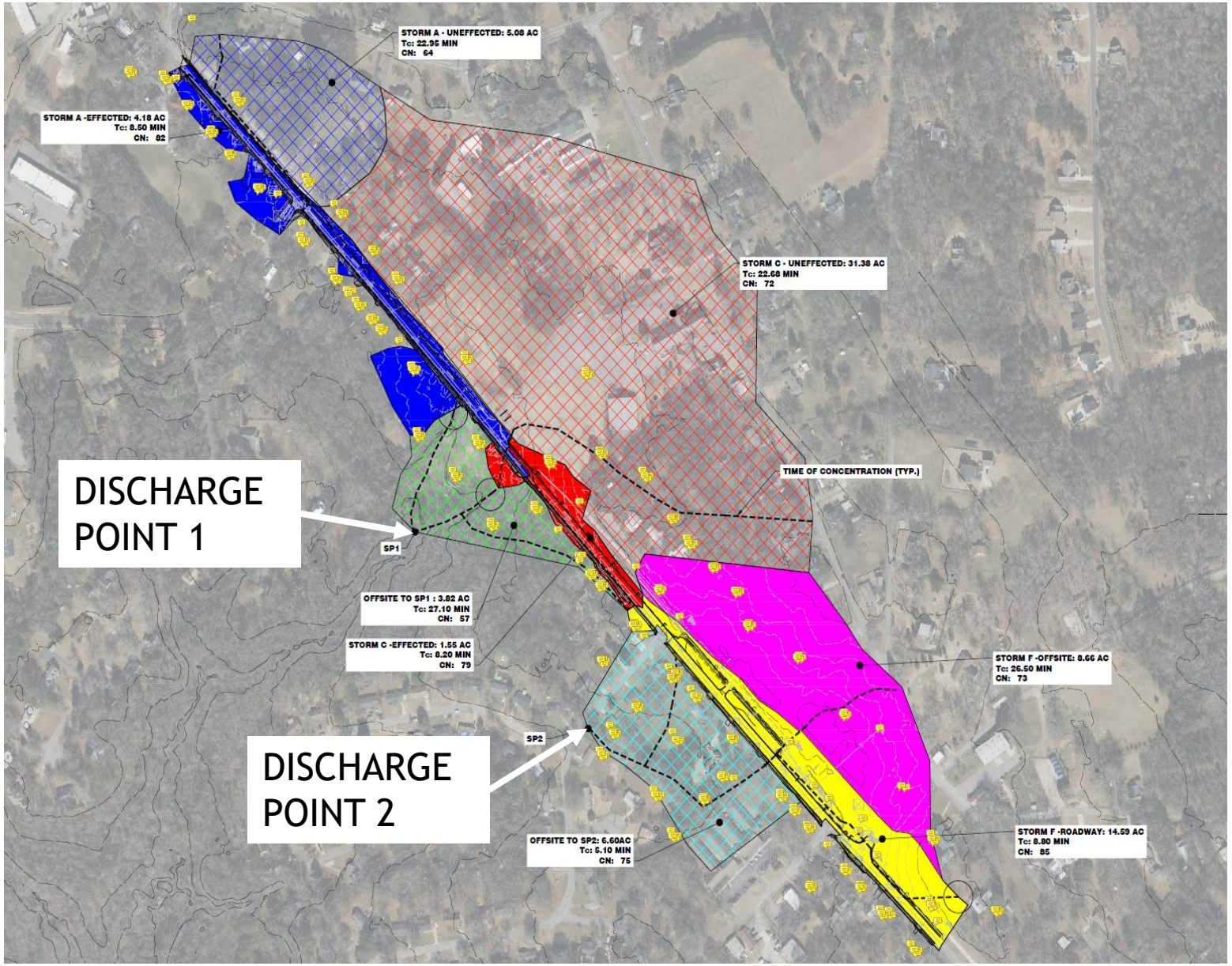
Project 01, Winterville Storm Drainage Improvements Project,

will provide for capital improvements for the repair, upgrade, and/or replacement of failed or failing stormwater pipes within the transportation related stormwater systems on or in the vicinity of Main Street in Winterville. Depending upon actual costs and funding availability, the improvements may include, but are not limited to, stormwater improvements such as: addition of inlets, repair or replacement of curb and gutter, additional piping, and/or any necessary repair and repaving associated with the improvements. To the extent allowed by law, budgeted project funds may be used as matching funds for leveraging grant opportunities. Additionally, to the extent allowed by law, other funding sources, including, but not limited to, grants, may be utilized to offset and/or reduce the project budget. Any unspent project funds that accrue as a result of the receipt of grants or other funding sources may be assigned to other approved TSPLOST projects.

Project Area Map



Drainage Basin/Sub-Basin Map



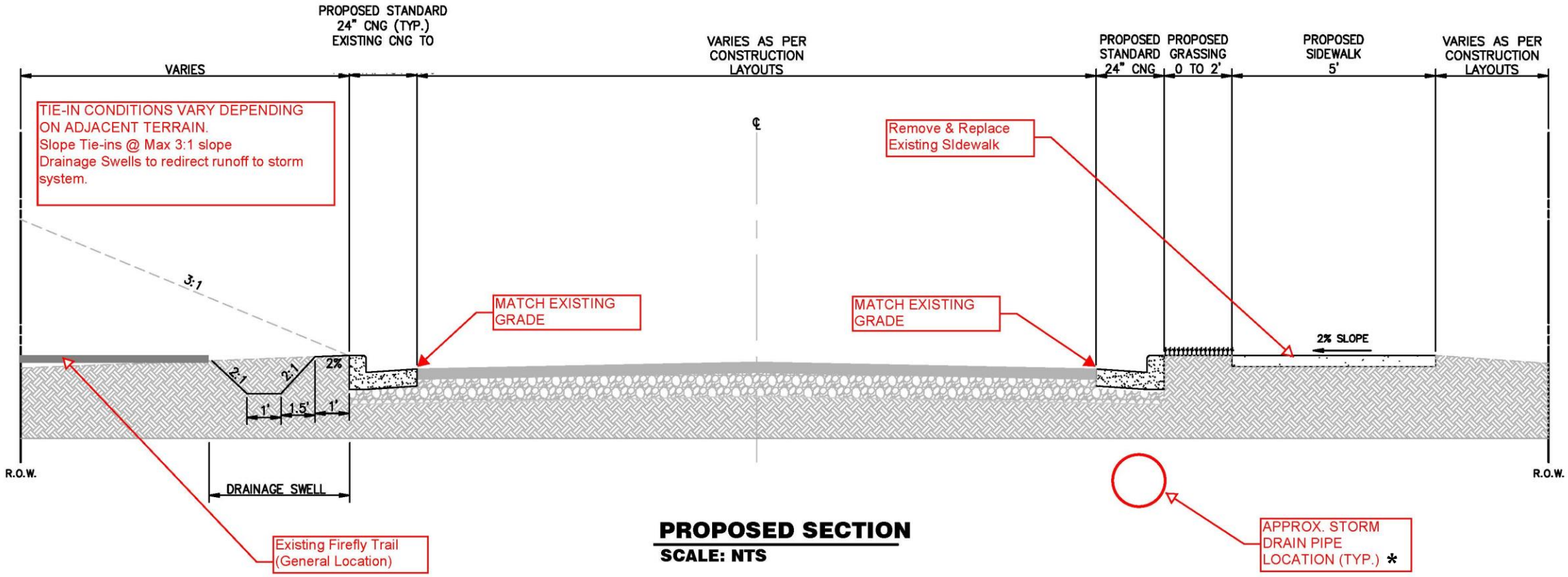
The existing drainage basin in the Project Area generally consist of 9 sub-basins that discharge at 2 separate study points on the Southside of Mains Street. Discharge point 1 overall drainage basin is approximately 46 acres and Discharge Drainage Basin 2 is approximately 19 acres.

Color coding and shading note the separate sub-basins and outfalls.

M&C Approved Project Concept Components

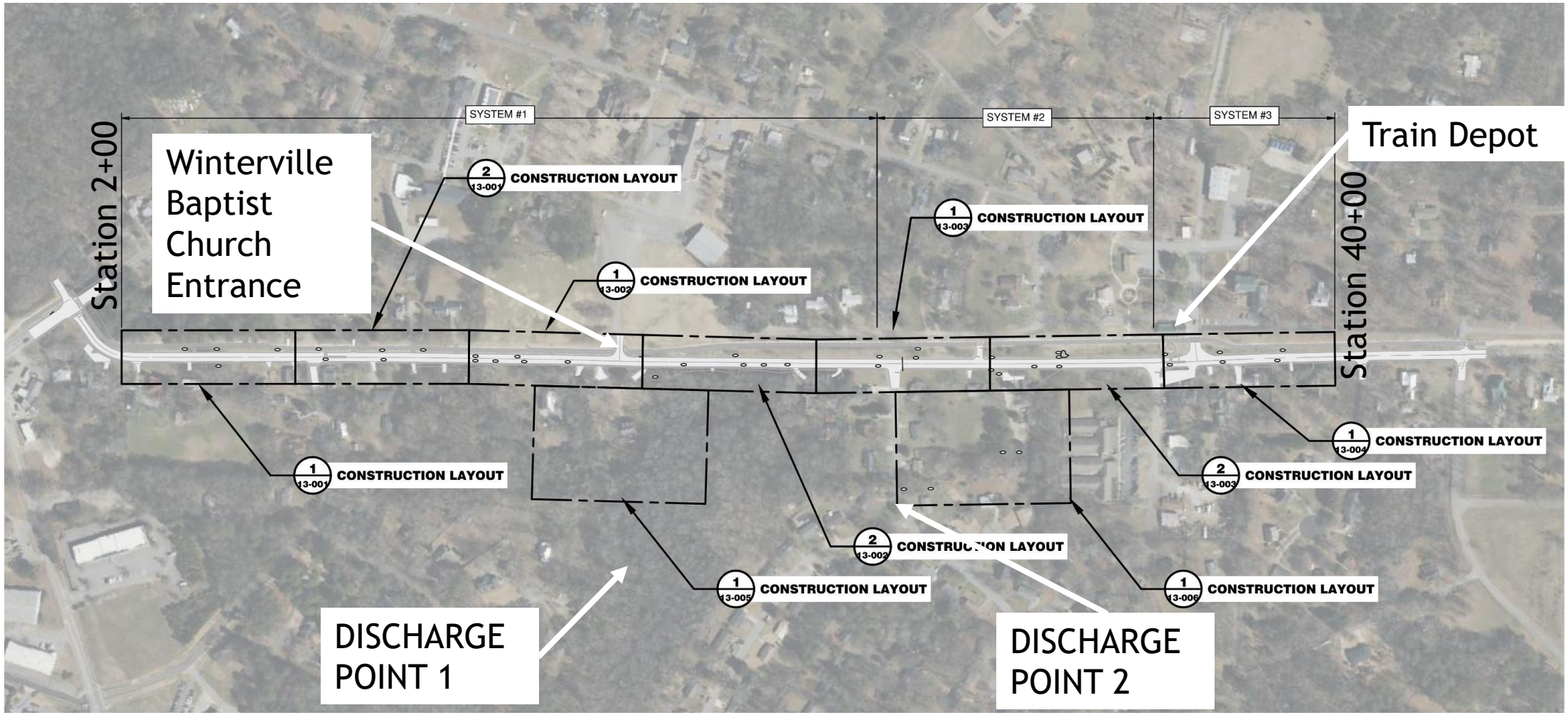
- Repair, upgrade and/or replacement of failed, failing or undersized pipes, inlets and other conveyance measures.
- Replace and improve curb and gutter to insure proper drainage.
- Upgrade or add additional inlets to handle existing and proposed conditions.
- Clear, reshape and grade existing ditches and swales as necessary.
- Repair or replace necessary storm drain infrastructure down stream of Main Street to ensure a properly functioning storm conveyance system.
- Install driveway aprons where necessary to prevent runoff from exiting the roadway via existing driveways.
- Replace or repair sidewalk and paving associated with the improvements.

Proposed Preliminary Design - Typical Cross-Section



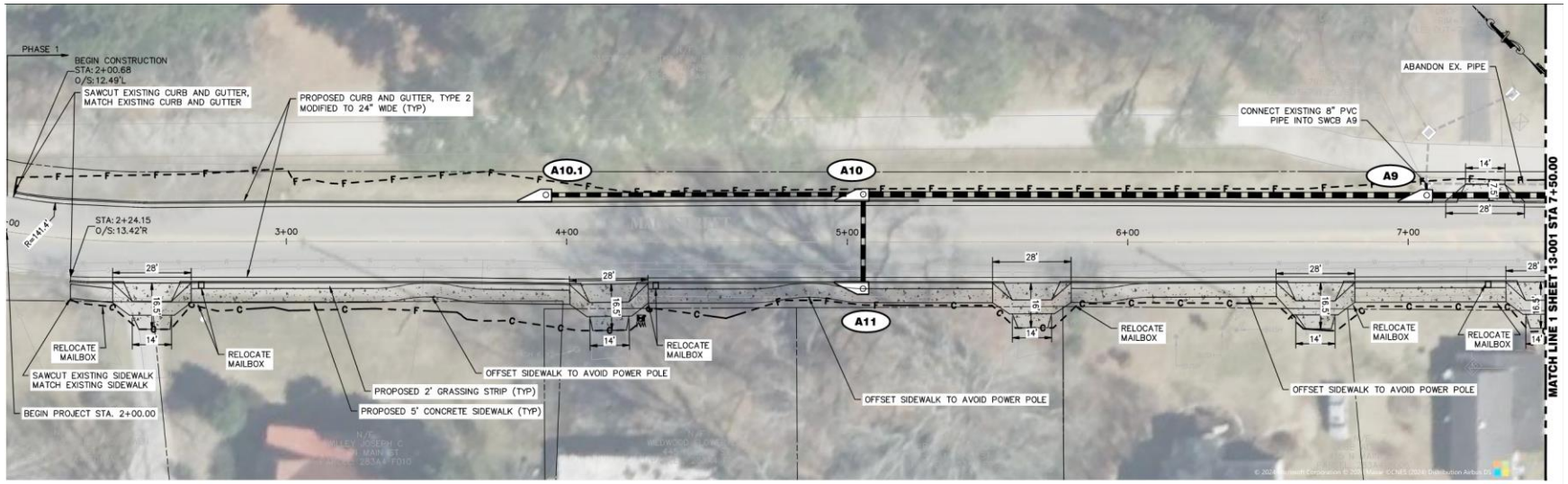
*Storm drain piping locations could be located on both sides of roadway generally located under the curb.

Proposed Preliminary Design - Overall Plan

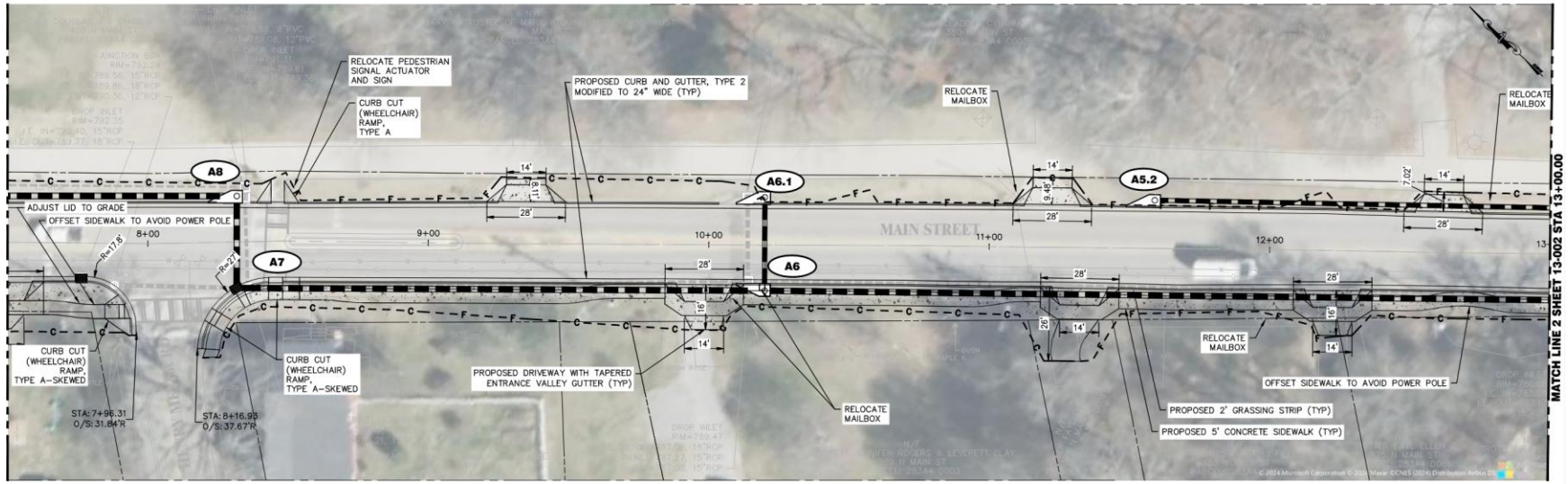


The proposed overall storm drain network is divided into three systems to help phase the design based on available funding. System # 1 discharges to discharge point #1. System #2 discharges to discharge point #2. System #3 currently discharges to roadside ditch prior to re-entering System #2.

Proposed Preliminary Design – Station 2+00 through 13+00 (System 1)



1 13-001 **MAINLINE CONSTRUCTION PLANS**
SCALE: 1"=20'

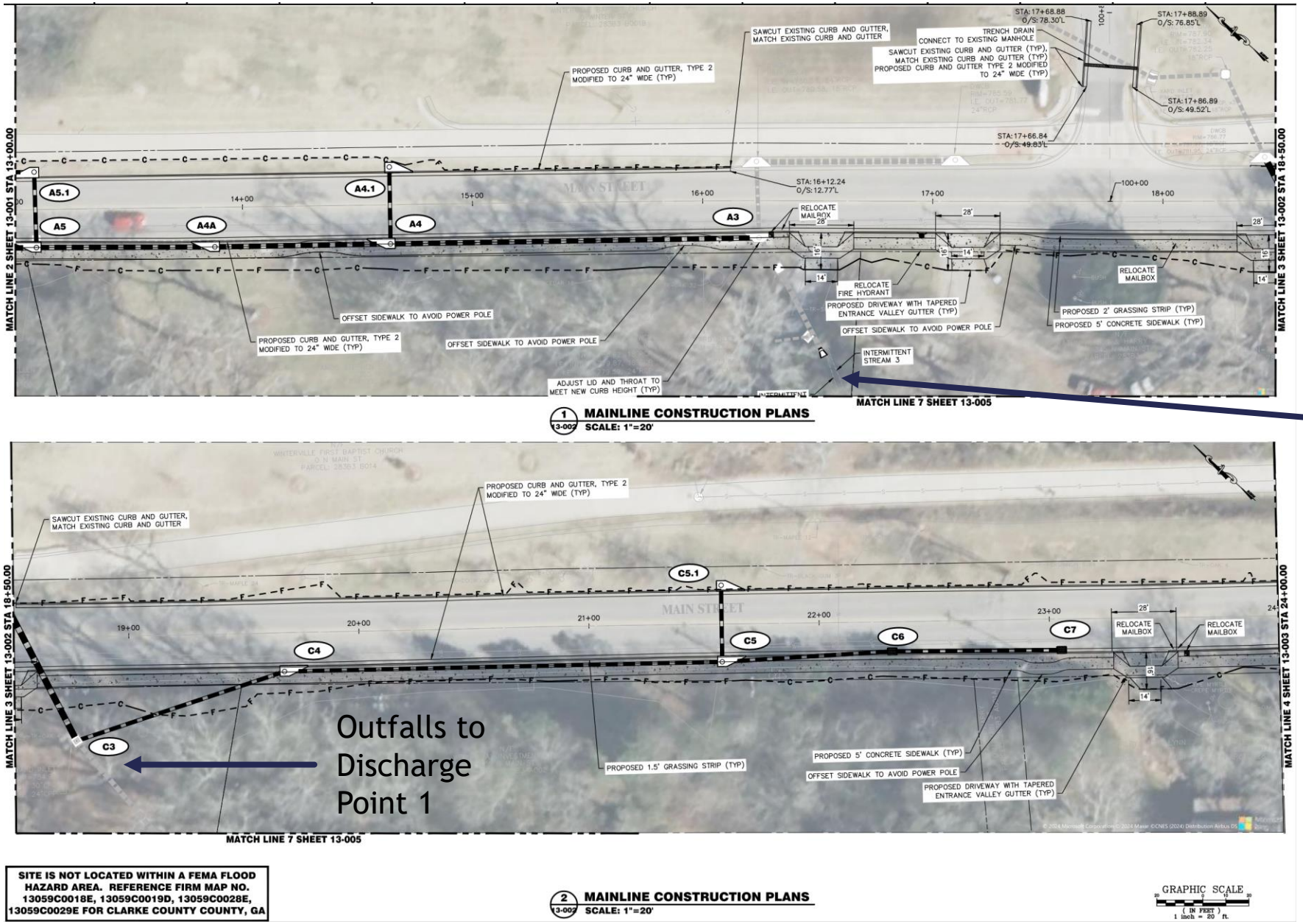


SITE IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD AREA. REFERENCE FIRM MAP NO. 13059C0018E, 13059C0019D, 13059C0028E, 13059C0029E FOR CLARKE COUNTY COUNTY, GA

2 13-001 **MAINLINE CONSTRUCTION PLANS**
SCALE: 1"=20'

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

Proposed Preliminary Design – Station 13+00 through 24+00 (System1)

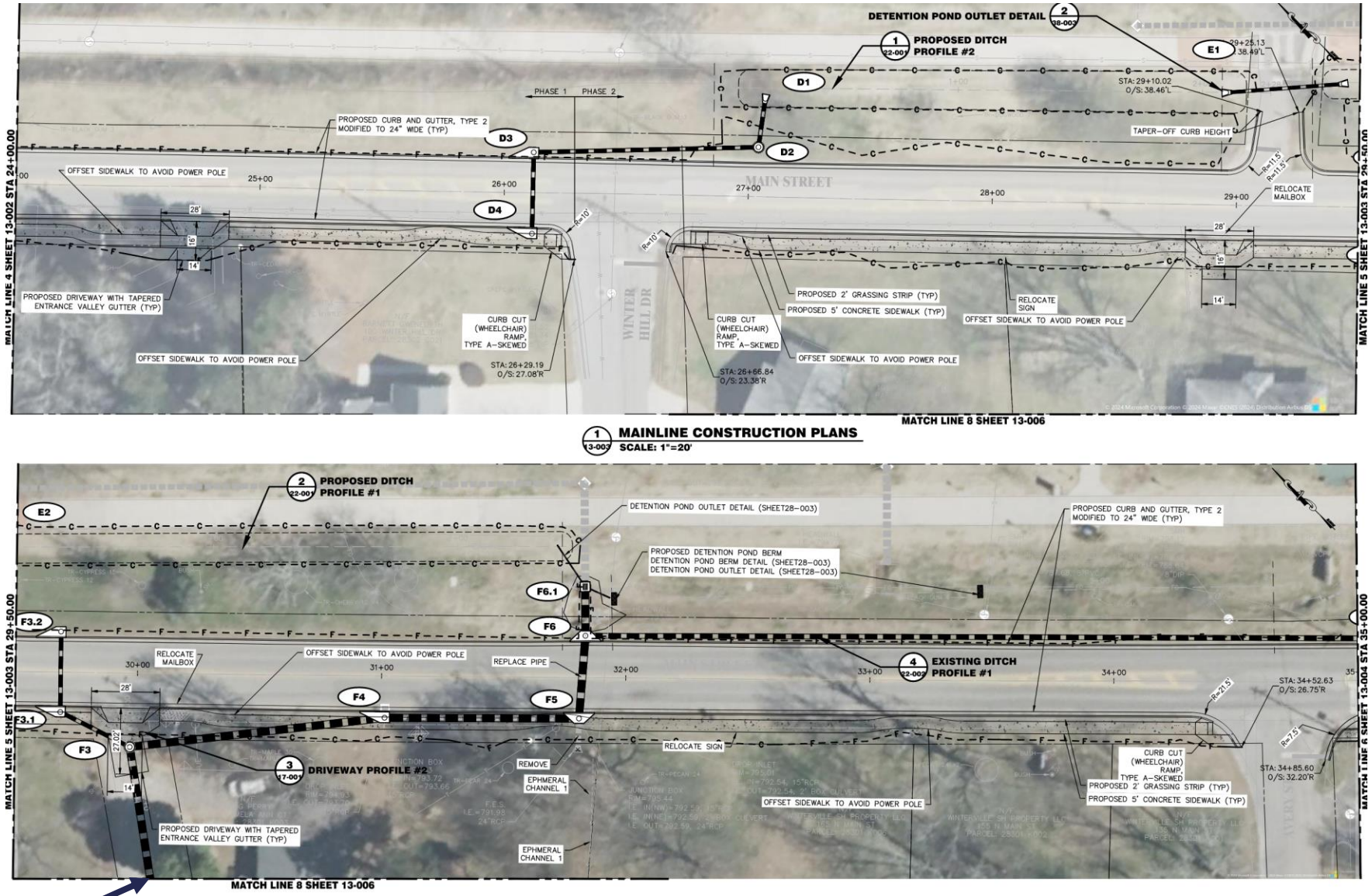


Outfalls to Discharge Point 1

Outfalls to Discharge Point 1

Outfalls to Discharge Point 1 continued on Slide 14

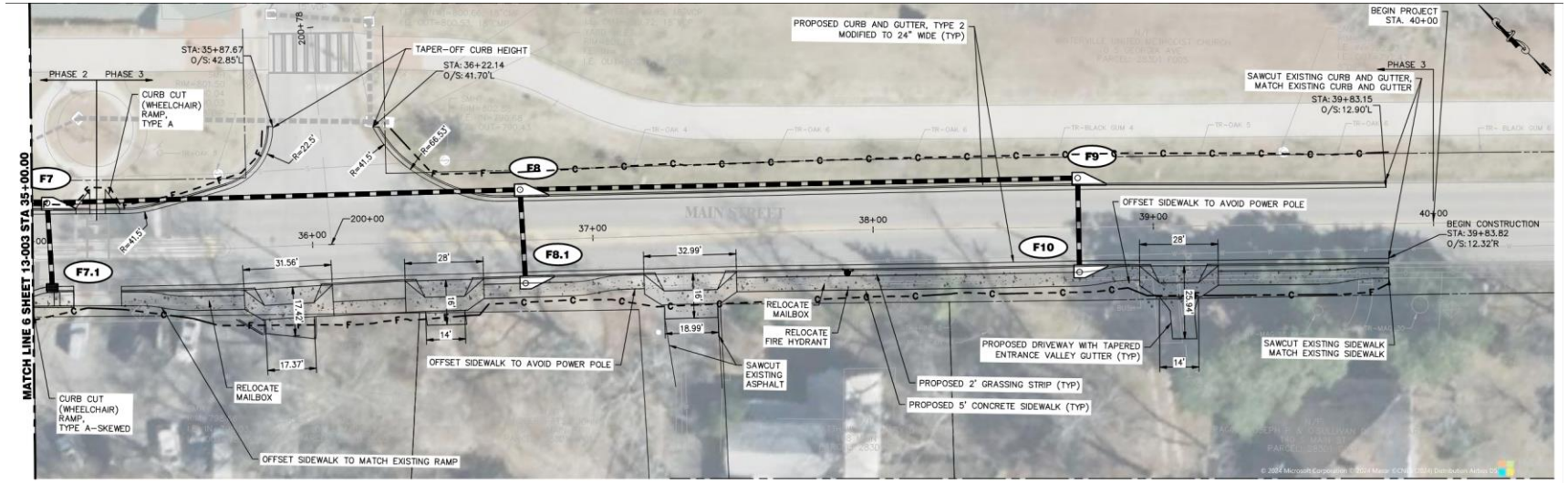
Proposed Preliminary Design - Station 24+00 through 35+00 (System2)



Outfalls to Discharge Point 2 – Continued on Slide

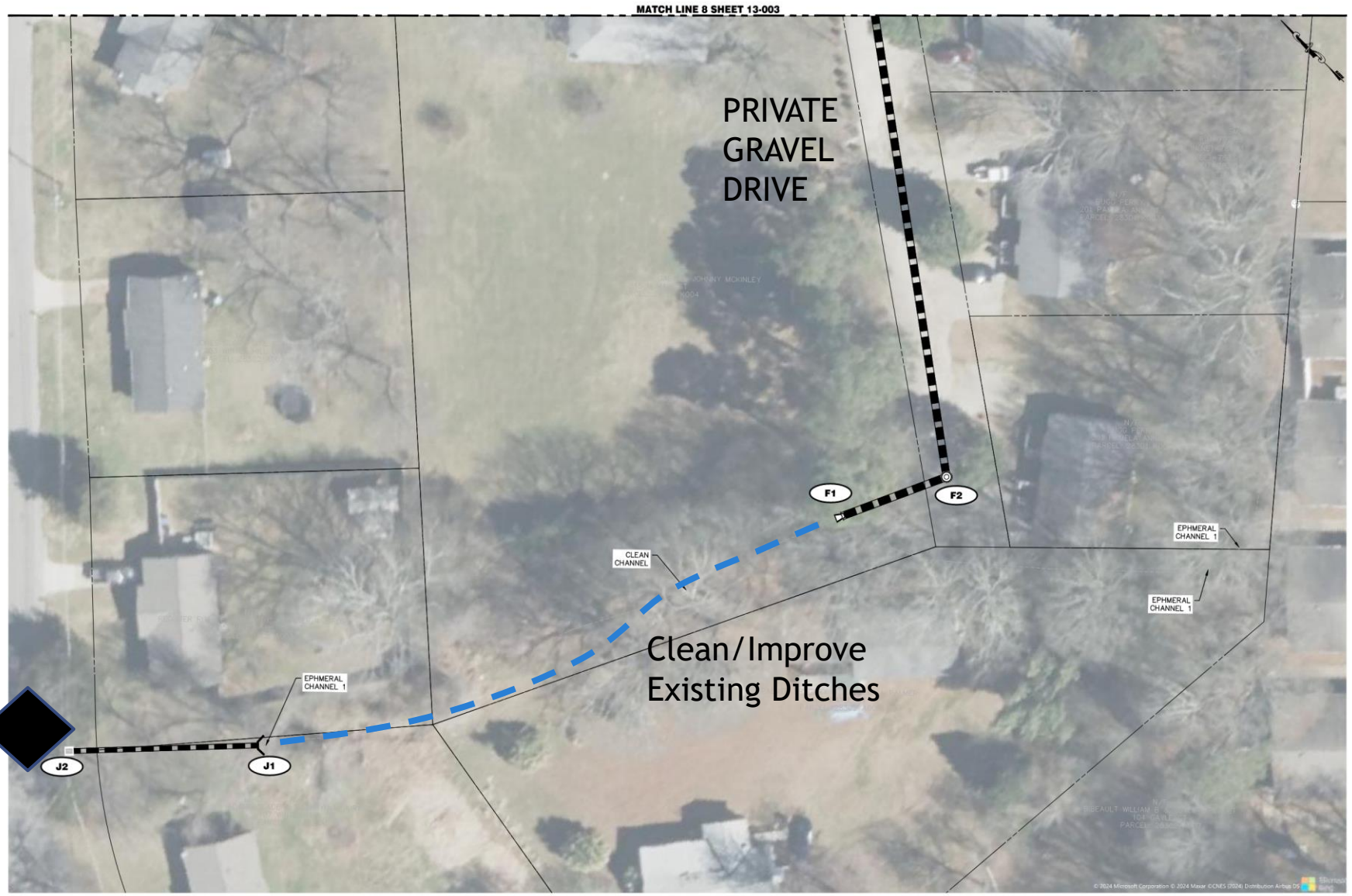
Outfalls to Discharge Point 2 continued on Slide 15

Proposed Preliminary Design - Station 35+00 through 40+00 (System 3)



Proposed Preliminary Design- Outfall to Discharge Point #1 (continued from slide 13)

Proposed Preliminary Design- Enlarged Site Project Area



Possible Affected Property Owners & Anticipated Impacted Easement Area

Parcel #	Temp. Const. Easement area (ft2)	Perm. Easement area (ft2)
283A4 F010A	450	
283A4 F010	2250	
283A4 F009	1425	
283A4 F008	1575	
283A4 F006	2805	
283A4 C002	7350	
283A4 C003	1905	
283A4 C003A	2475	
283A4 C003B	2295	
283A4 C003F	2430	
283A4 D004	1905	
283A4 D003	2430	
283A4 D002	2475	
283A4 D001	465	
283B3 B001B	6975	
283B3 A003	7000	7000
283B3 B014	7650	
283B3 A002	4770	
283B3 A001A	315	
283B3 A001	7500	
283C2 C021	1980	
283C2 A001	2025	
283D1 K004	5565	6000
283D1 K003	2655	
283D1 K006	1950	
283D1 K002	1230	
283D1 K001	915	
283D1 F005	5295	
283D1 J001	1170	
283D1 G005	1230	
283D1 G004	2430	
283D J003	2055	
283 007	5625	1200
283B3 A003	1000	1000
283C2 A003	1360	1360
283C A003	795	1400

Winterville Storm Drainage Improvement Project – Proposed Preliminary Design Budget

REVENUES:

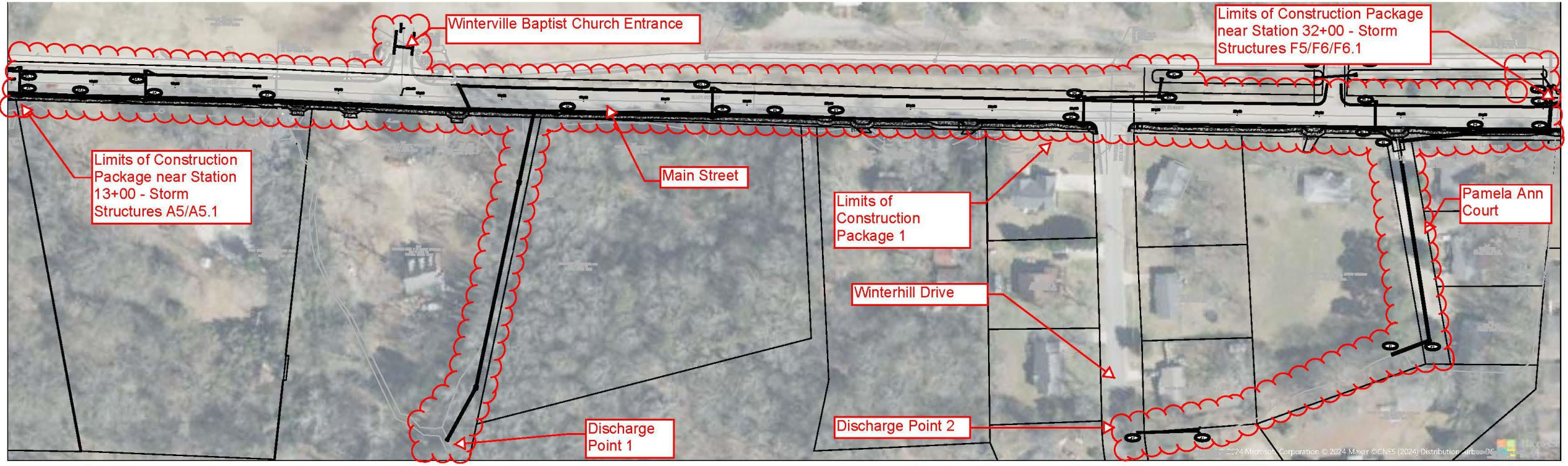
$	2,712,000	TSPLOST 2023 Project 01 – All Tiers

EXPENSES:

$	372,949	Expensed or Encumbered
$	50,000	Designated Land/Easement Acquisition
$	142,437	Designated Misc./PM Fees/ Testing Permitting
$	196,614	Designated for Design & Construction Contingency
$	1,950,000	Available for Construction/Construction Contingency
$	3,031,000	Engineer's Estimate for Construction
$	(1,081,000)	Budget shortfall for complete Preliminary Design*

*Staff will continue to investigate ways to reduce anticipated construction costs as final plans are developed.

Approximate Construction Limits for Available Budget



Initial construction limits are set to maximize storm drain improvements starting at the the most down stream location (Discharge Points of Systems 1 & 2) and construct system improvements to address and alleviate standing water and isolated flooding portions of Main Street. This includes approximately 2,500 LF of storm drain and 5,000 LF of Curb & Gutter.

Next Steps & Project Schedule

➢ Preliminary Design & Proposed Phasing Approval for M&C Consideration	September 2024
➢ Final Design, Permitting & Land Acquisition	October 2024 – May 2025
➢ Bidding and Contractor Award	July 2025
➢ Start Project Construction Phase	Fall 2025
➢ Construction Completion	Summer 2026

Questions?