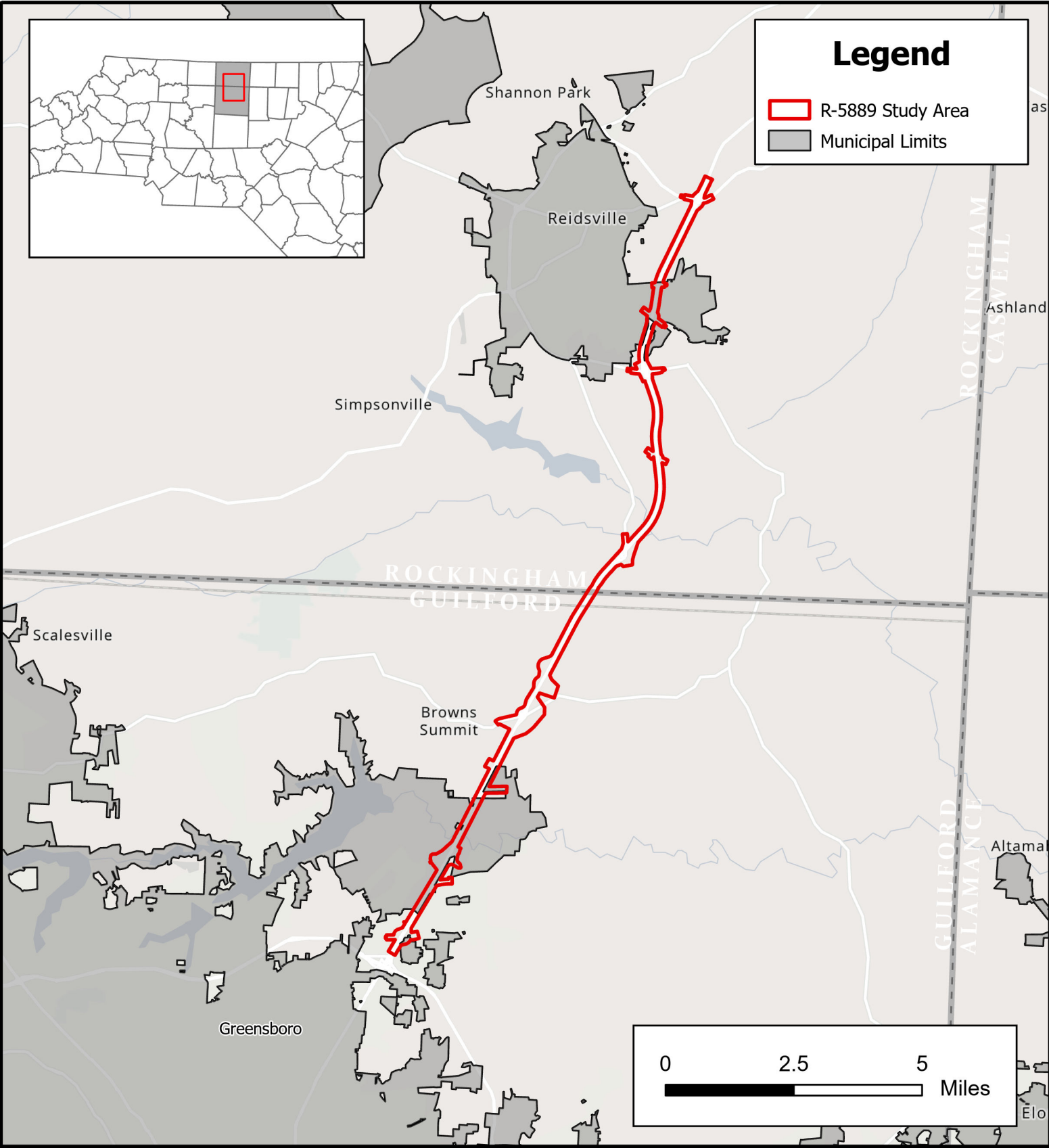
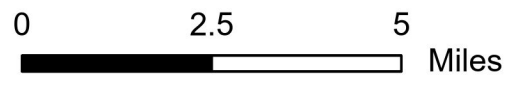


# Appendix A



# Legend

- R-5889 Study Area
- Municipal Limits



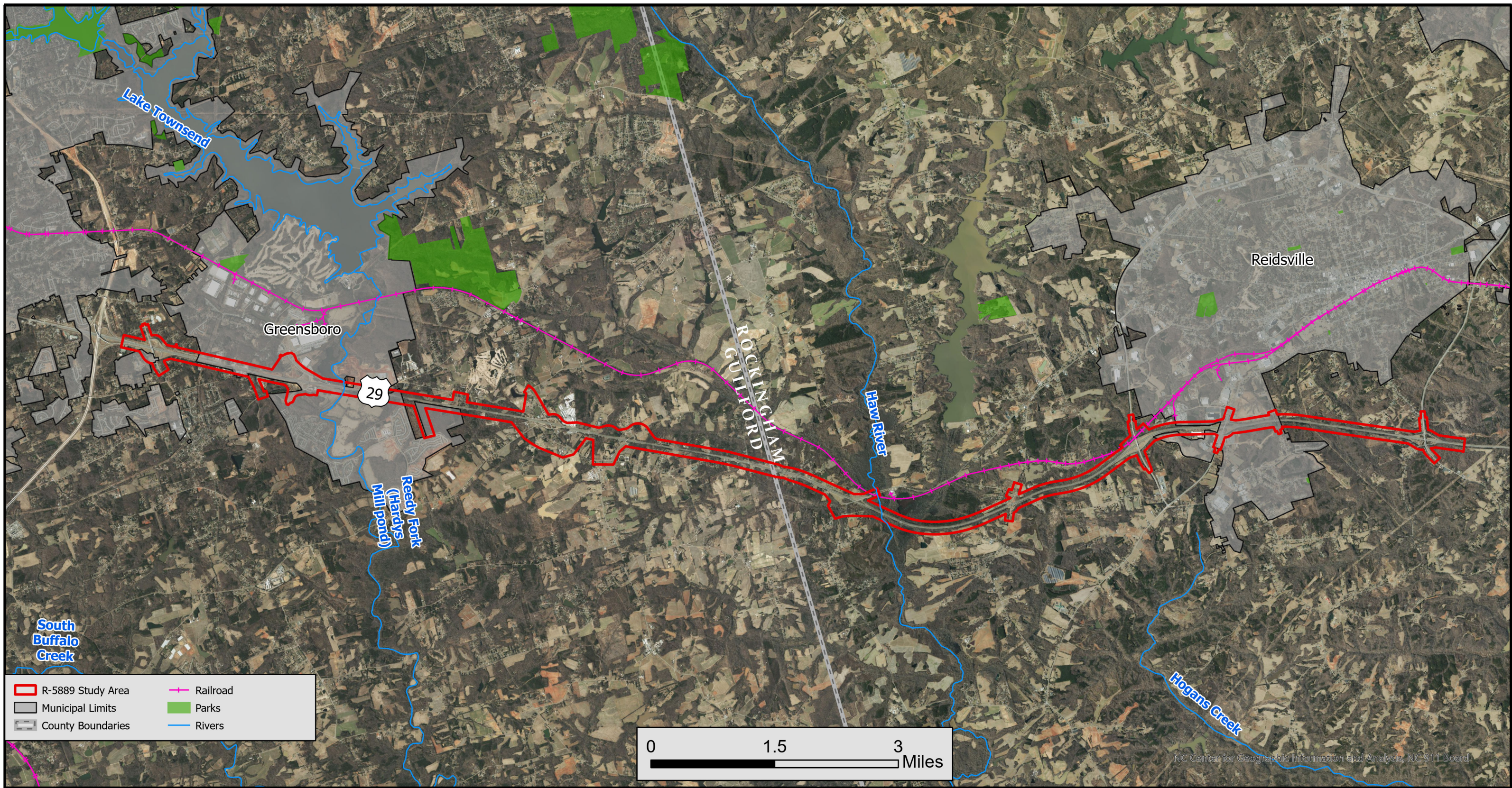
Prepared by  
  
 Prepared for  


Sources: ESRI Basemap, Project Study Area created by Dewberry.

**Vicinity Map  
 R-5889  
 US 29 (Future I-785)  
 Guilford and Rockingham County, NC**



WBS No. 48394.1.1  
 Date: 6/18/2026  
 Drwn/Chkd: ZCL/ES  
 Figure: 1

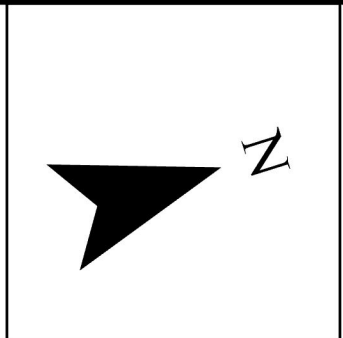


NC Center for Geographic Information and Analysis, NC 911 Board

Prepared by  
  
 Prepared for  


Sources: NC OneMap, ESRI Basemap, Project Study Area created by Dewberry.

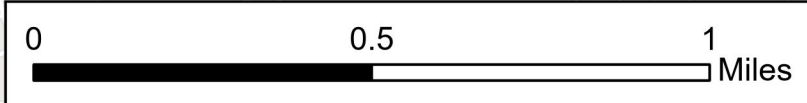
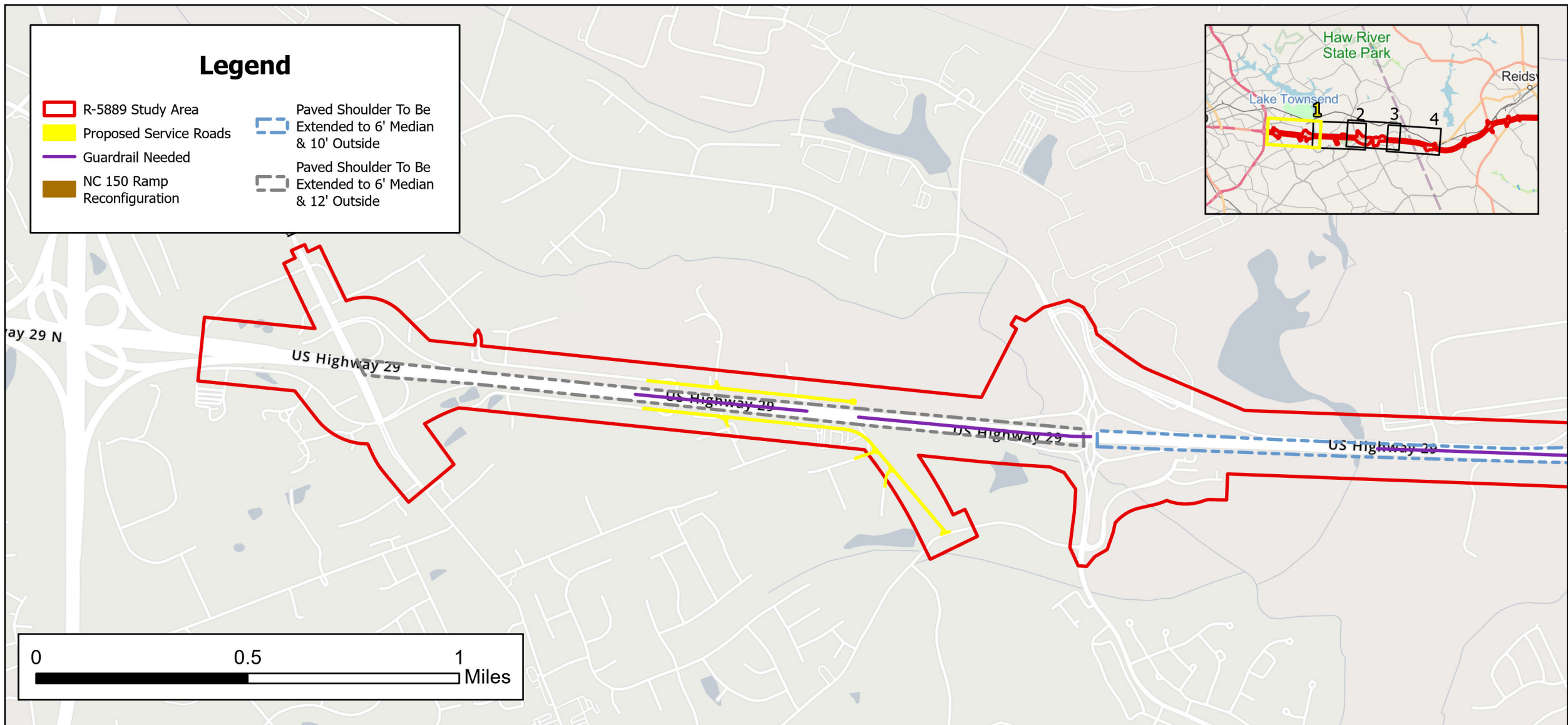
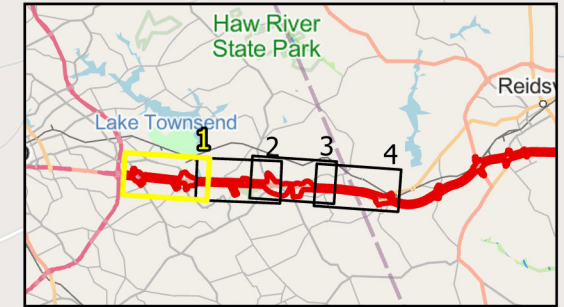
**Project Study Area Map**  
**R-5889: US 29 (Future I-785)**  
**Upgrade Corridor to**  
**Interstate Standards**  
**Guilford/Rockingham County, NC**



WBS #: 48394.1.1  
 Date: 6/18/2026  
 Drwn/Chkd: ZCL/ES  
 Figure: 2

# Legend

- R-5889 Study Area
- Proposed Service Roads
- Guardrail Needed
- NC 150 Ramp Reconfiguration
- Paved Shoulder To Be Extended to 6' Median & 10' Outside
- Paved Shoulder To Be Extended to 6' Median & 12' Outside



Prepared By:

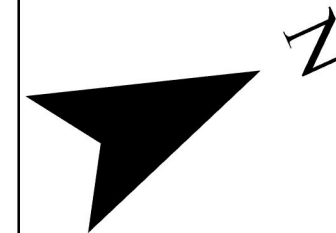


Prepared For:



Sources: Esri Basemap, Project Study Area and Roadway Design Elements created by Dewberry.

## Detailed Alternatives Map R-5889: US 29 (Future I-785) Upgrade US 29 Corridor to Interstate Standards Guilford & Rockingham Counties, NC



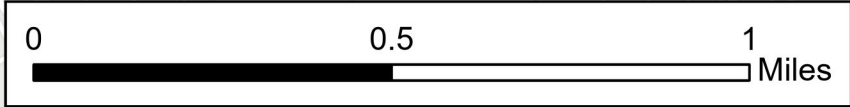
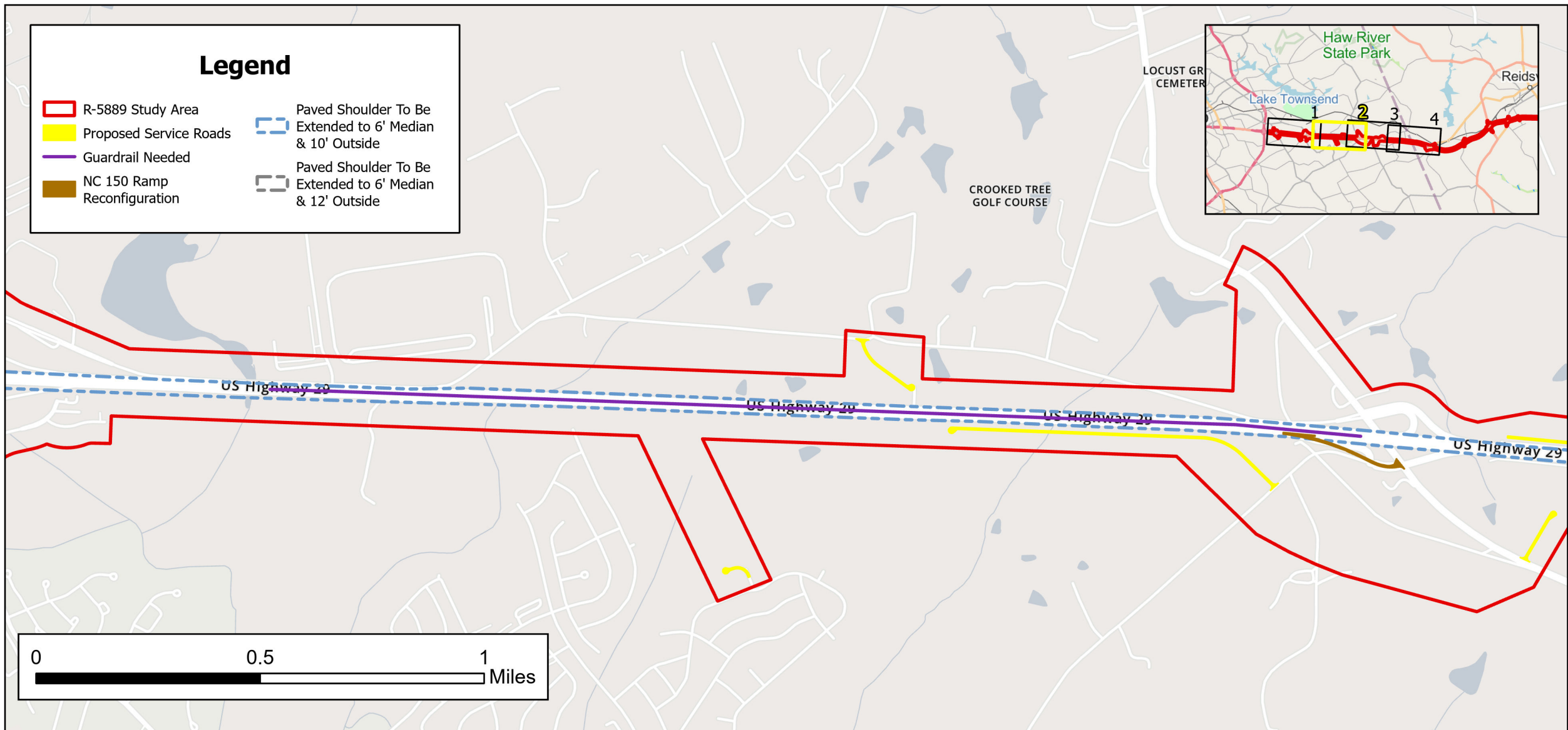
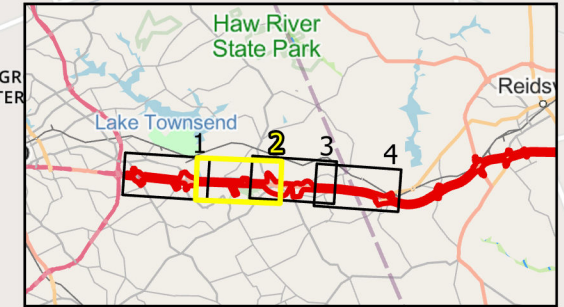
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Date: 6/12/2026

Figure: 3 Page: 1

# Legend

- R-5889 Study Area
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Prepared By:

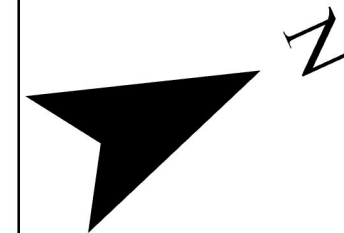


Prepared For:



Sources: Esri Basemap, Project Study Area and Roadway Design Elements created by Dewberry.

## Detailed Alternatives Map R-5889: US 29 (Future I-785) Upgrade US 29 Corridor to Interstate Standards Guilford & Rockingham Counties, NC



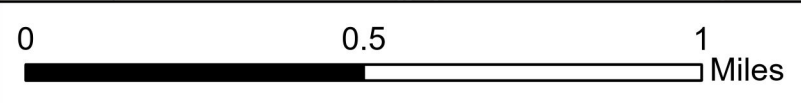
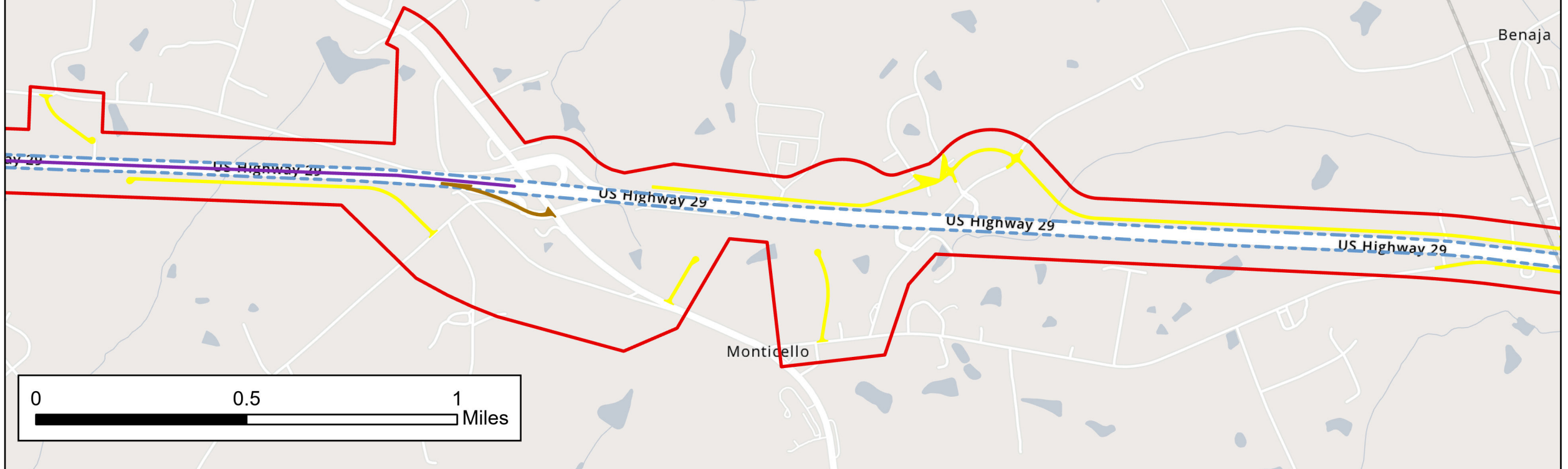
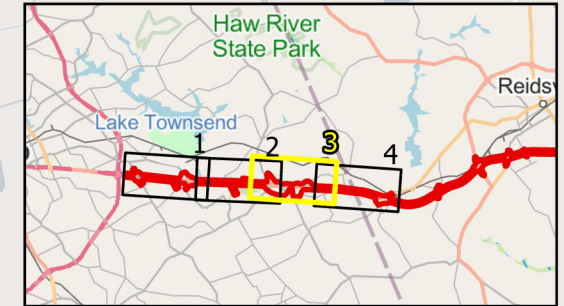
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Date: 6/12/2026

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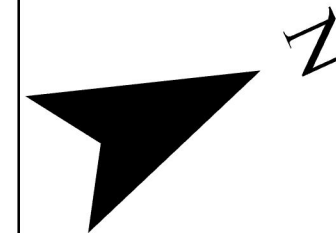


Prepared For:



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## Detailed Alternatives Map R-5889: US 29 (Future I-785) Upgrade US 29 Corridor to Interstate Standards Guilford & Rockingham Counties, NC



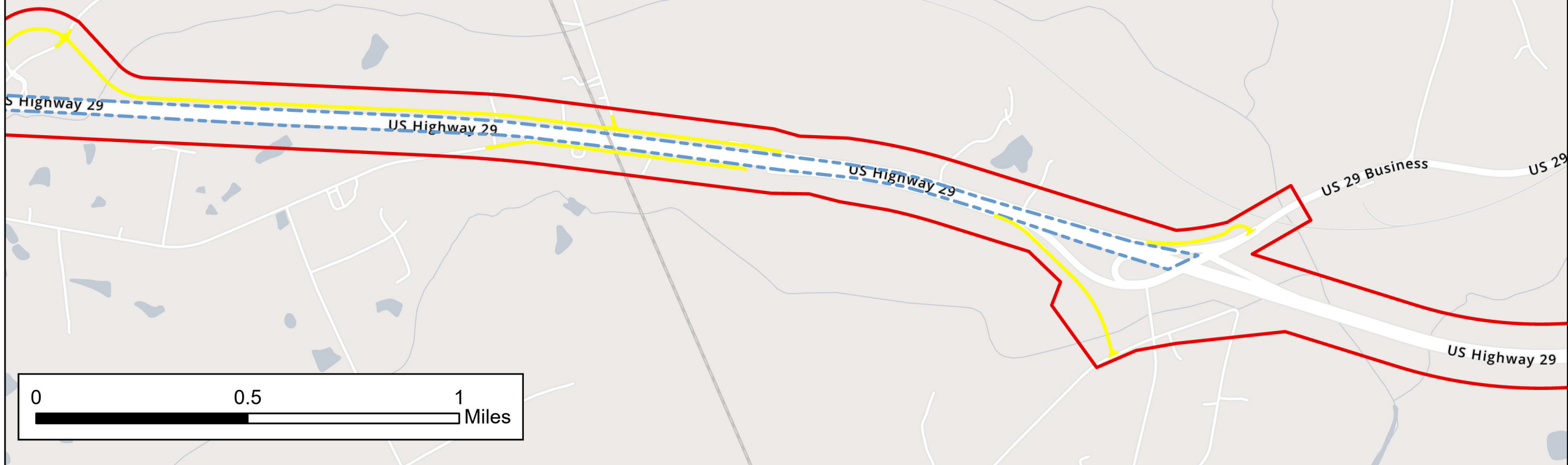
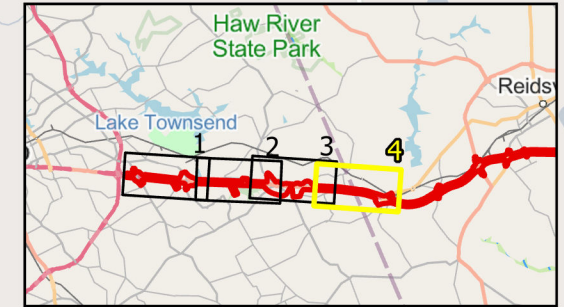
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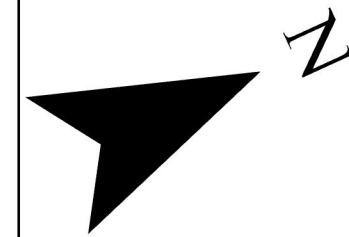
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# Legend

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- Guardrail Needed
- NC 150 Ramp Reconfiguration
- Paved Shoulder To Be Extended to 6' Median & 10' Outside
- Paved Shoulder To Be Extended to 6' Median & 12' Outside



## Detailed Alternatives Map R-5889: US 29 (Future I-785) Upgrade US 29 Corridor to Interstate Standards Guilford & Rockingham Counties, NC



Prepared By:  
**Dewberry**

Prepared For:

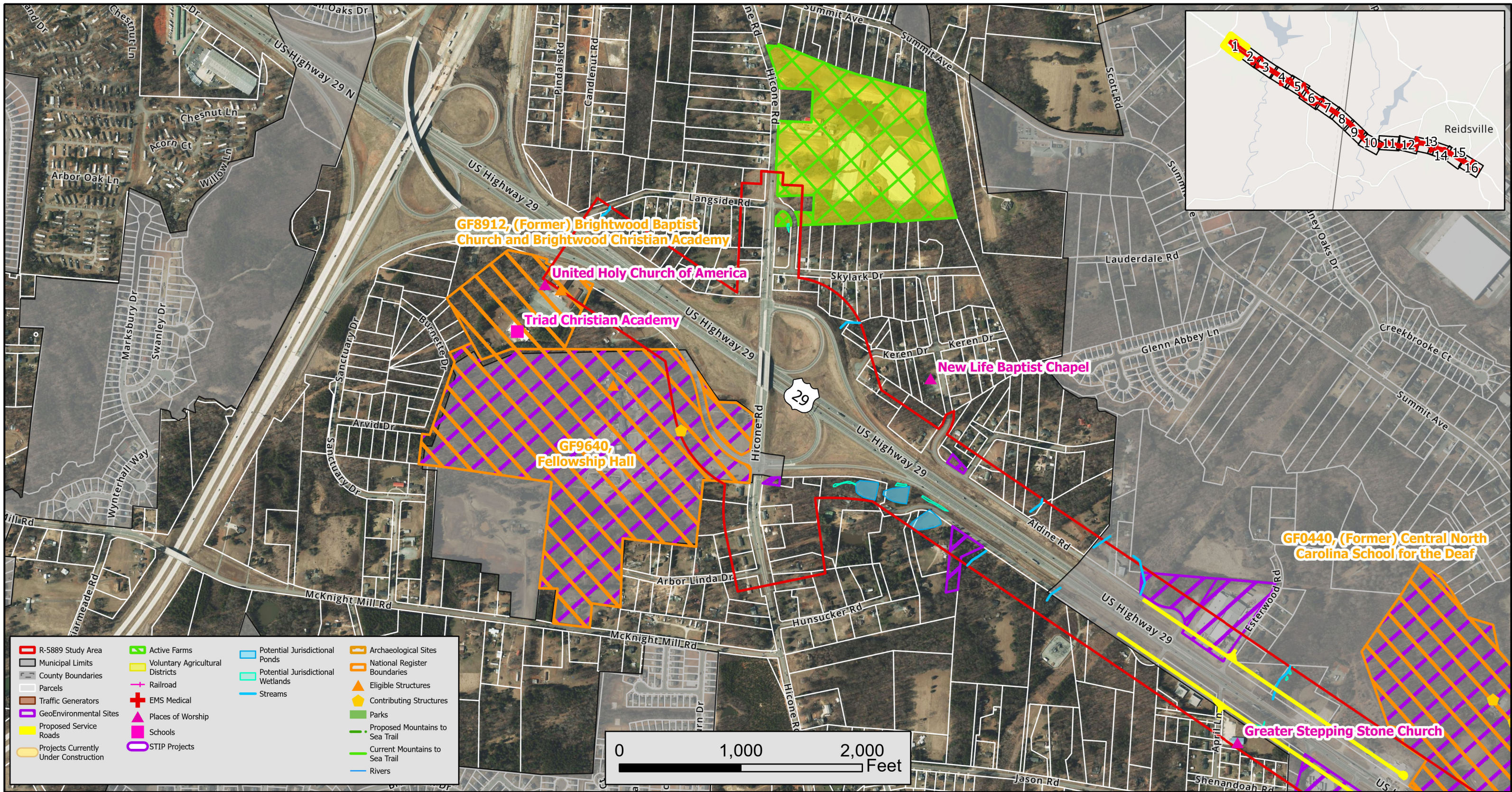


Sources: Esri Basemap, Project Study Area and Roadway Design Elements created by Dewberry.

WBS #: 48394.1.1

Date: 6/12/2026

Figure: 3 Page: 4



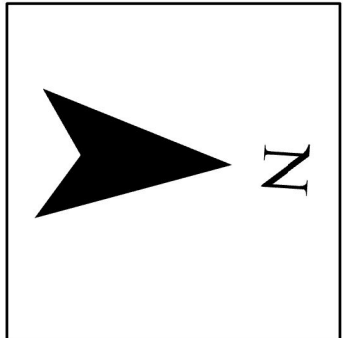
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Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
County Boundaries	Railroad	Streams	Eligible Structures
Parcels	EMS Medical	Contributing Structures	Parks
Traffic Generators	Places of Worship	Proposed Mountains to Sea Trail	Current Mountains to Sea Trail
GeoEnvironmental Sites	Schools	Rivers	
Proposed Service Roads	STIP Projects		
Projects Currently Under Construction			



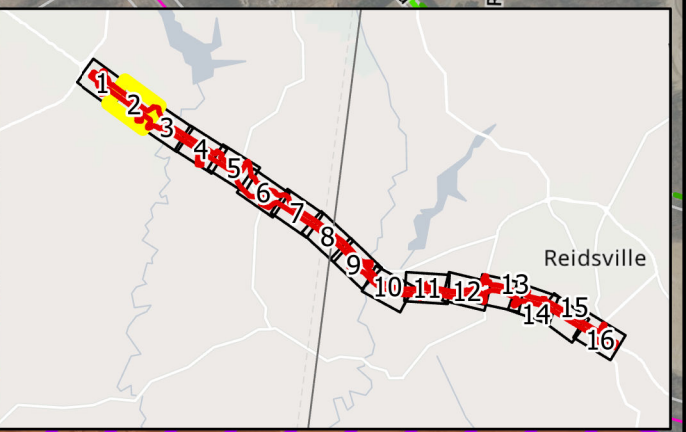
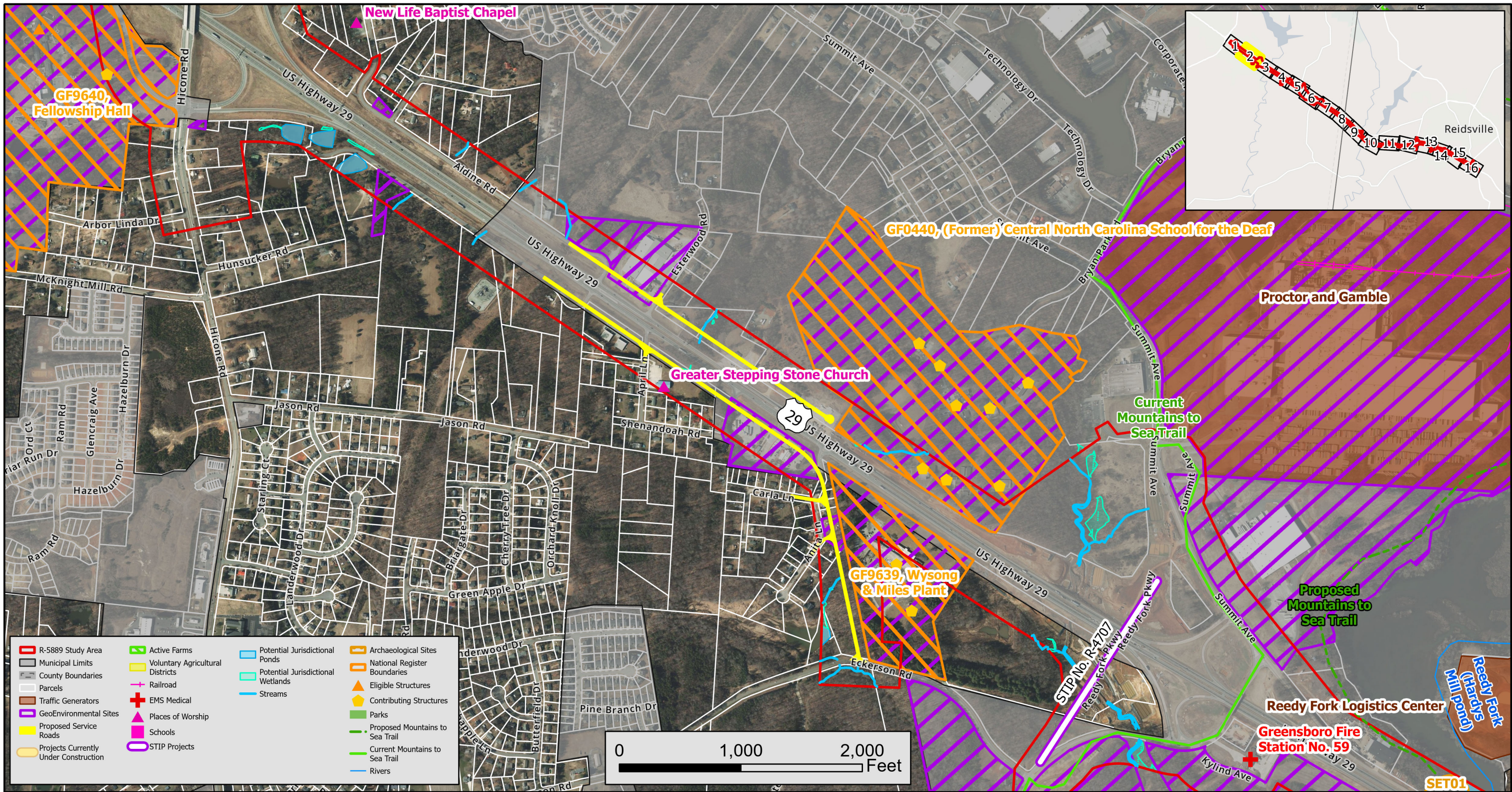
Prepared by  
 Dewberry  
 Prepared for

Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



WBS #: 48394.1.1
Date: 6/18/2026
Drwn/Chkd:
Figure: 4 Page: 1

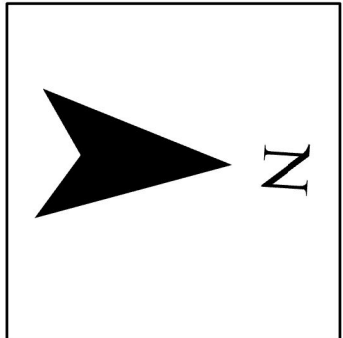


R-5889 Study Area	Active Farms	Potential Jurisdictional Ponds	Archaeological Sites
Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
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Traffic Generators	Places of Worship	Proposed Mountains to Sea Trail	Current Mountains to Sea Trail
GeoEnvironmental Sites	Schools	Rivers	
Proposed Service Roads	STIP Projects		
Projects Currently Under Construction			

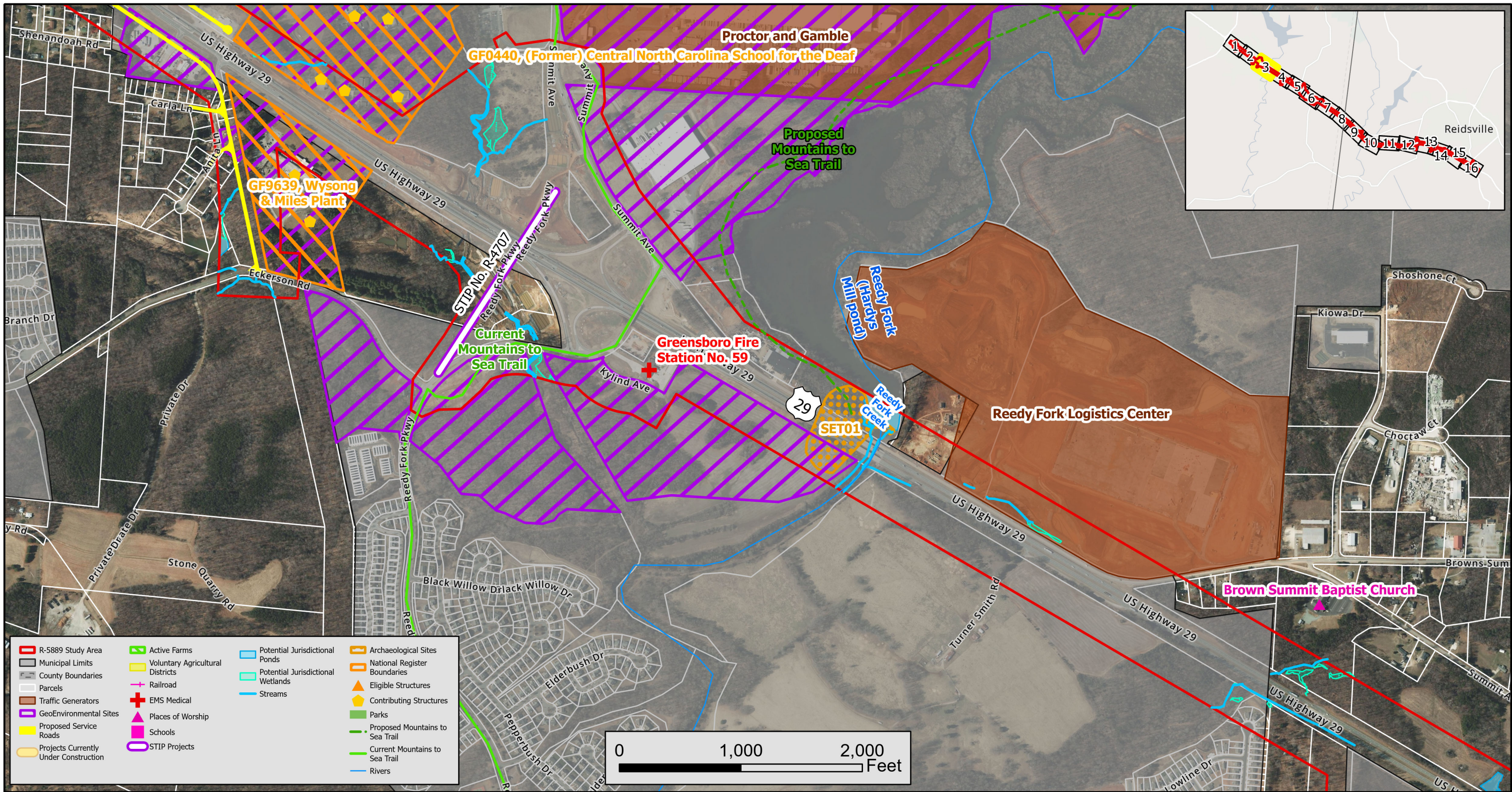
Prepared by  
**Dewberry**  
 Prepared for

Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



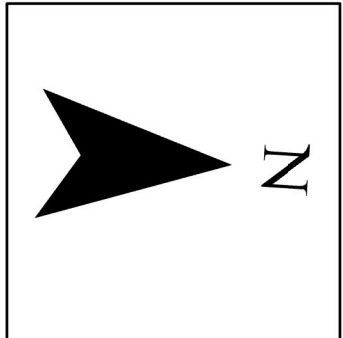
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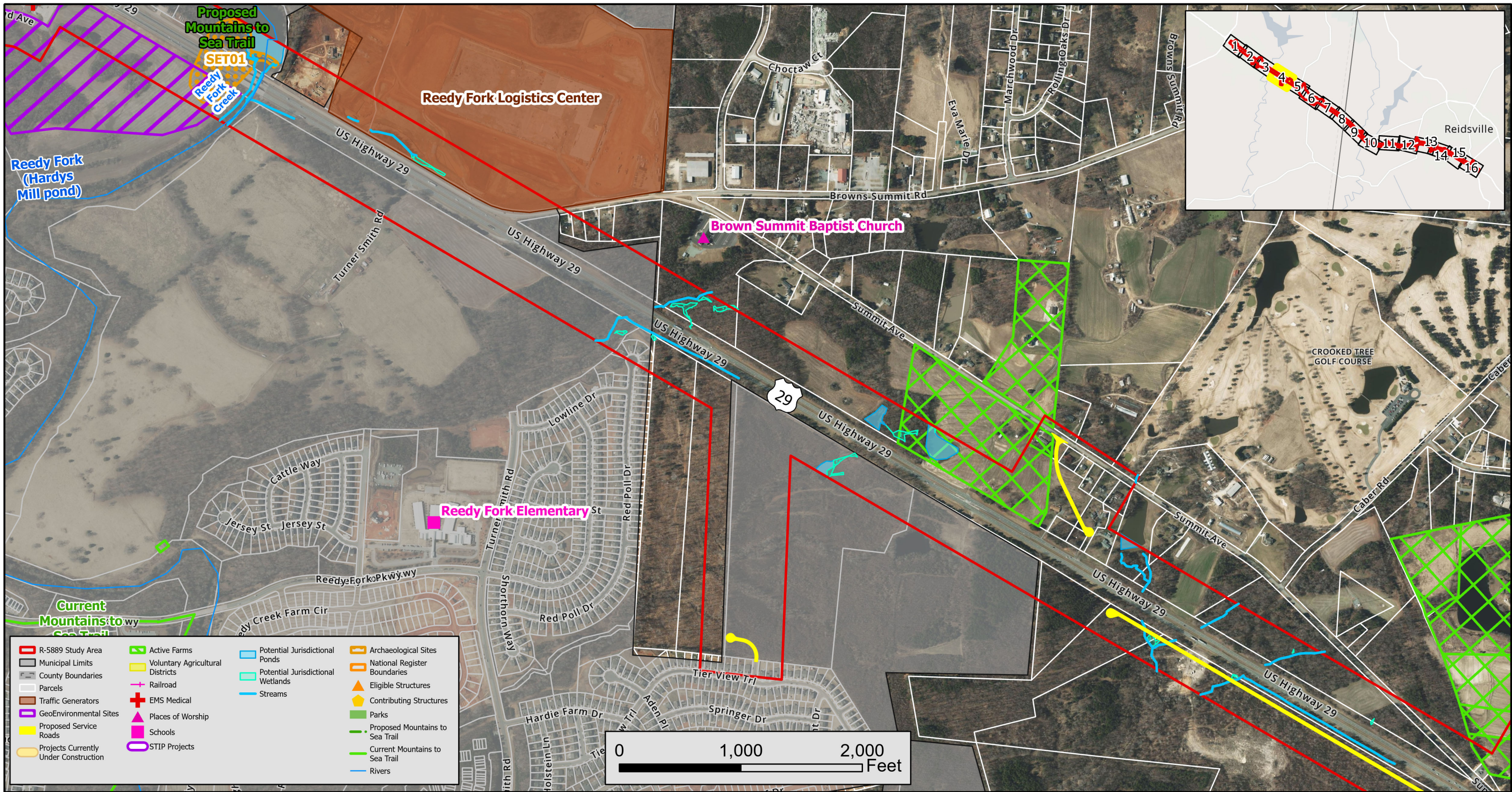
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## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



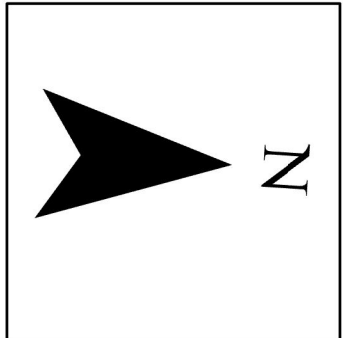
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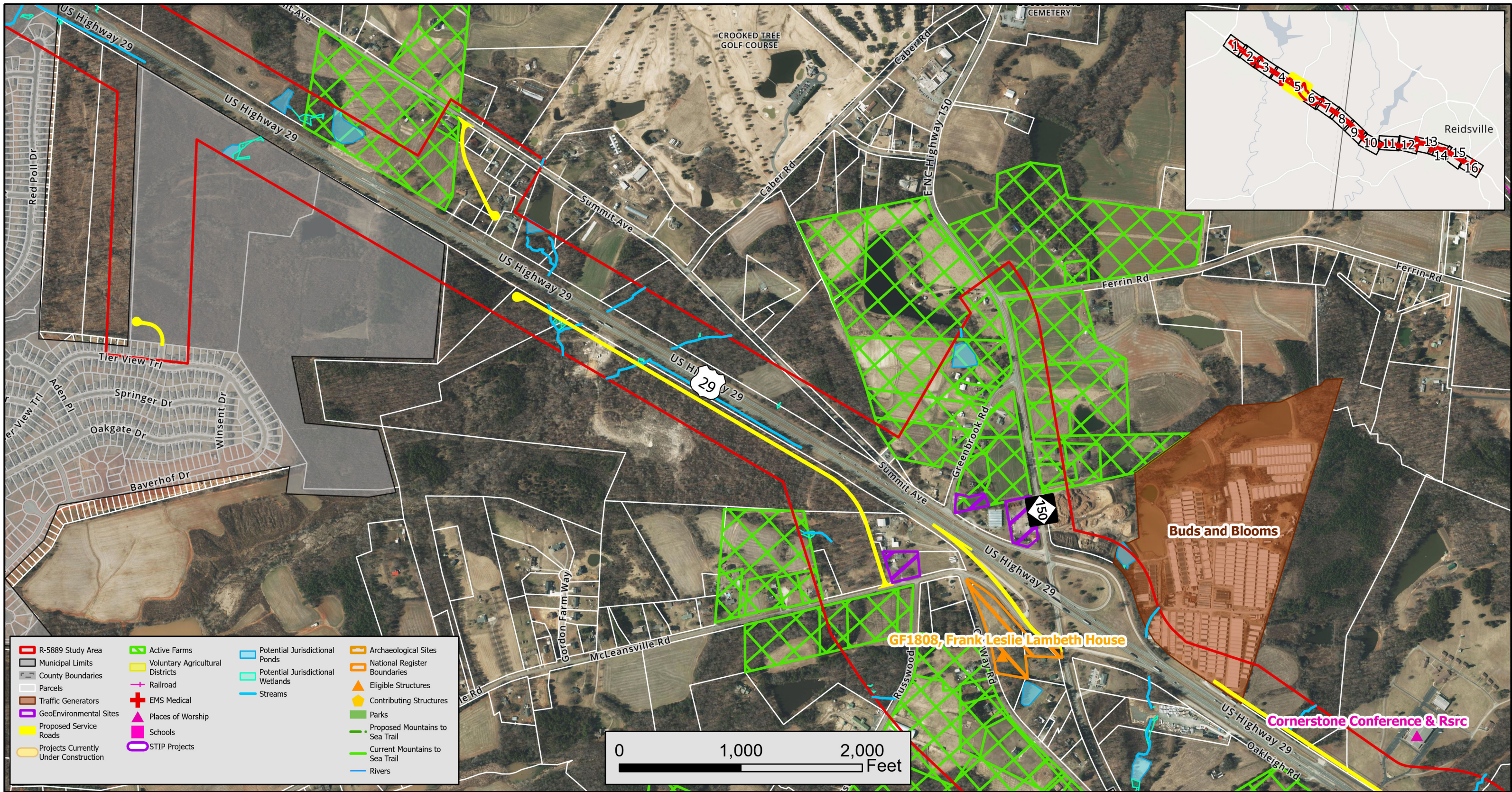
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Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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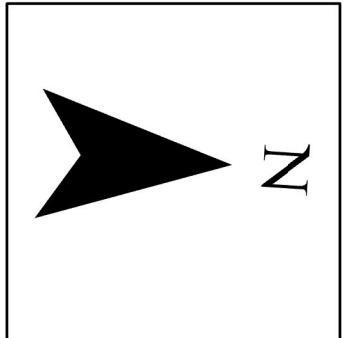


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Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
County Boundaries	Railroad	Streams	Eligible Structures
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Traffic Generators	Places of Worship	Proposed Mountains to Sea Trail	Current Mountains to Sea Trail
GeoEnvironmental Sites	Schools	Rivers	
Proposed Service Roads	STIP Projects		
Projects Currently Under Construction			

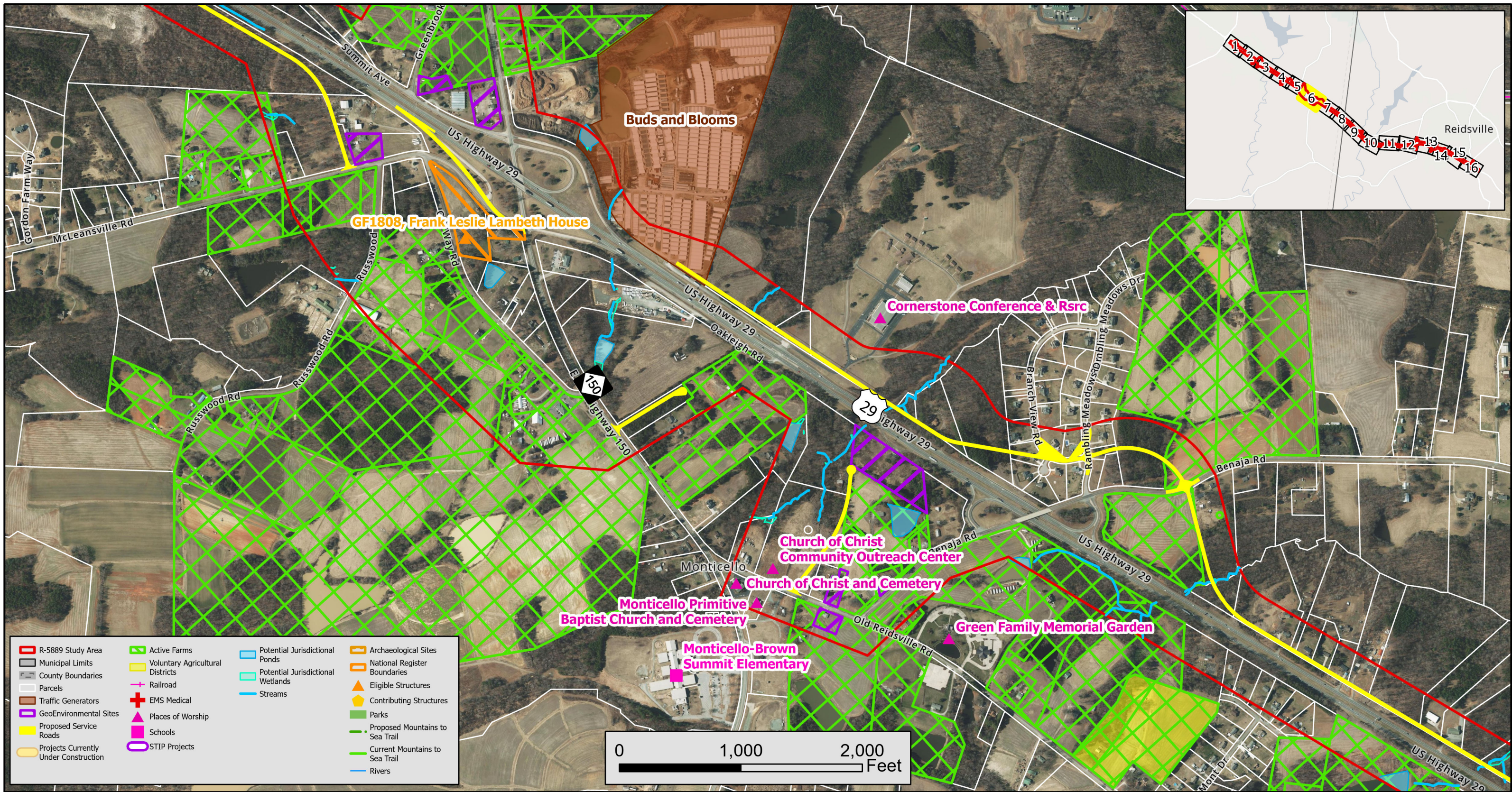
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Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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 Figure: 4 Page: 5

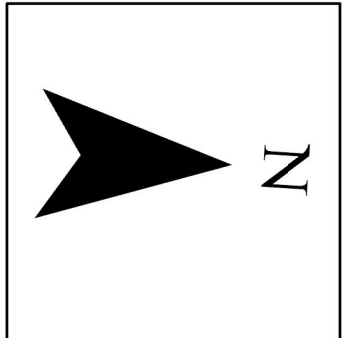


R-5889 Study Area	Active Farms	Potential Jurisdictional Ponds	Archaeological Sites
Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
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Traffic Generators	Places of Worship	Proposed Mountains to Sea Trail	Current Mountains to Sea Trail
GeoEnvironmental Sites	Schools	Rivers	
Proposed Service Roads	STIP Projects		
Projects Currently Under Construction			

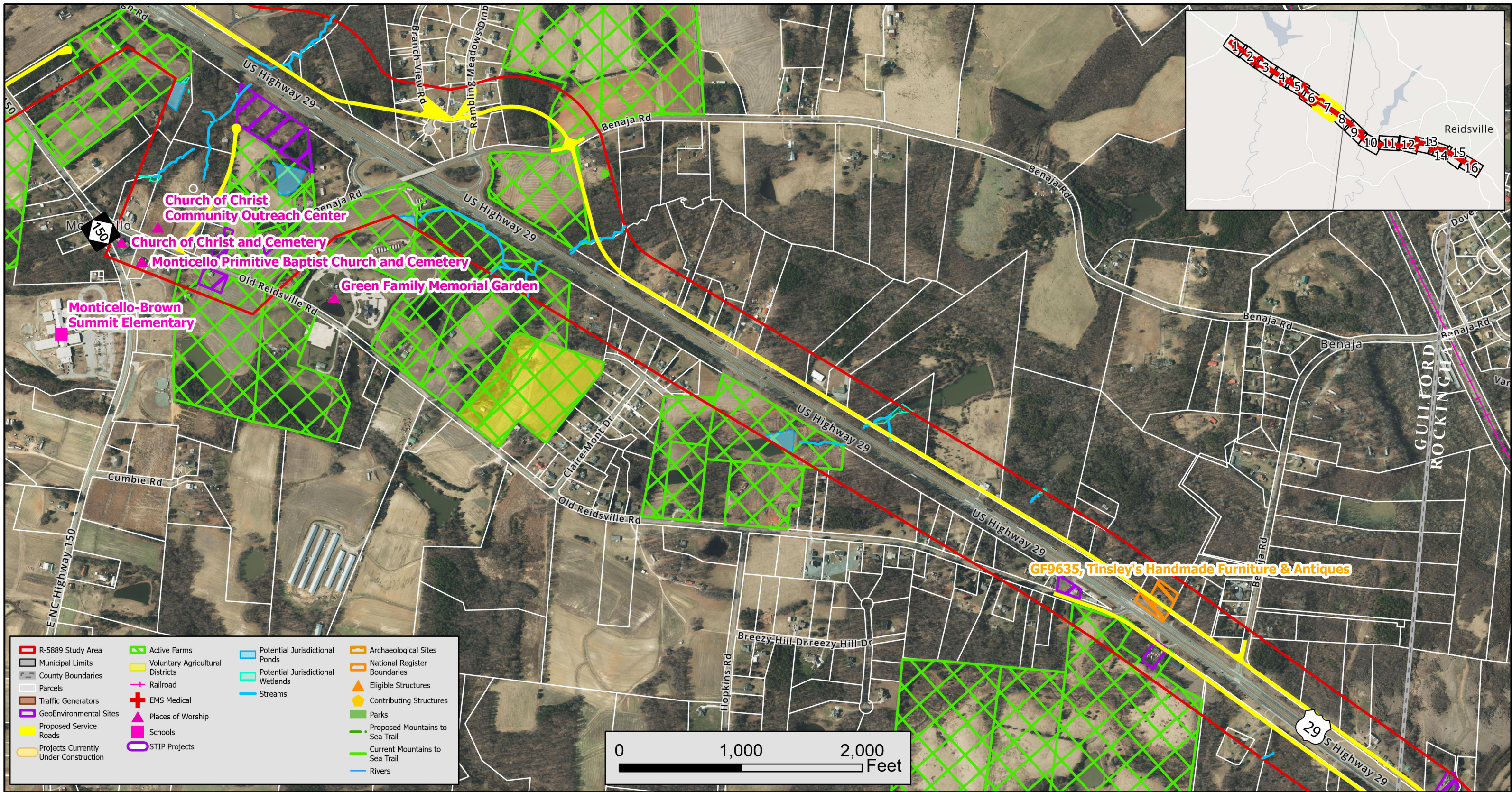
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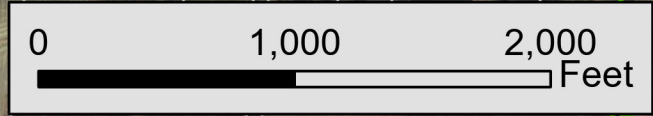
## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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R-5889 Study Area	Active Farms	Potential Jurisdictional Ponds	Archaeological Sites
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County Boundaries	Railroad	Streams	Eligible Structures
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GeoEnvironmental Sites	Schools	Rivers	
Proposed Service Roads	STIP Projects		
Projects Currently Under Construction			

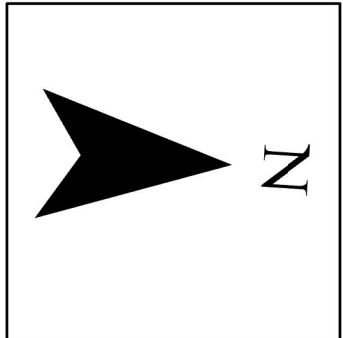


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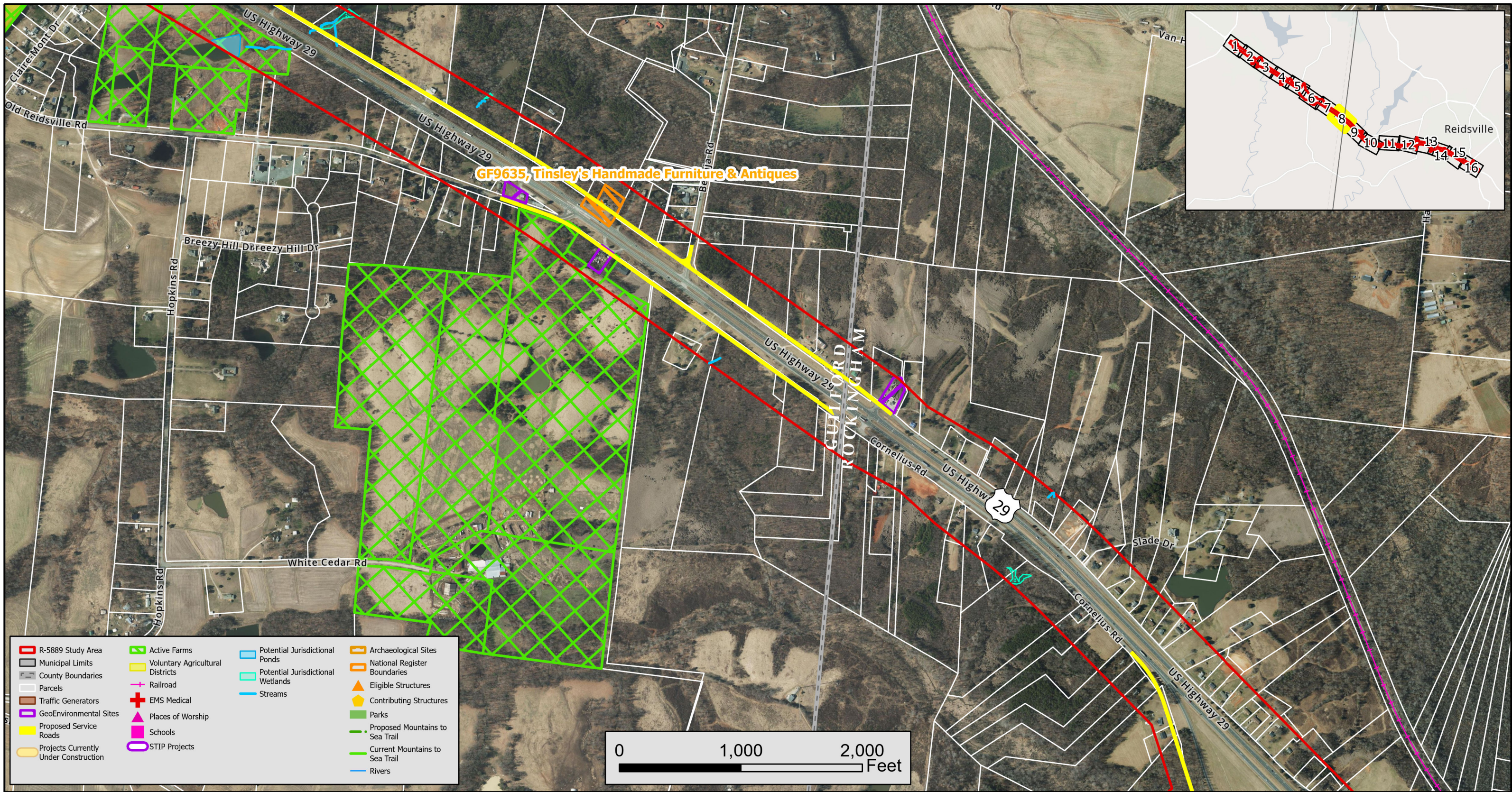
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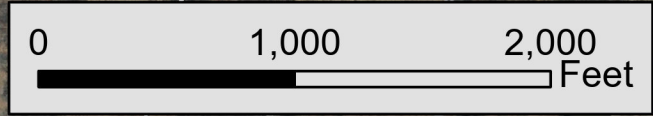
## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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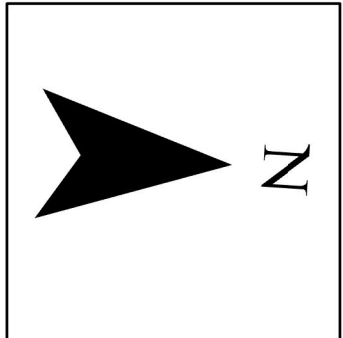
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| Municipal Limits                      | Voluntary Agricultural Districts | Potential Jurisdictional Wetlands | National Register Boundaries    |
| County Boundaries                     | Railroad                         | Streams                           | Eligible Structures             |
| Parcels                               | EMS Medical                      |                                   | Contributing Structures         |
| Traffic Generators                    | Places of Worship                |                                   | Parks                           |
| GeoEnvironmental Sites                | Schools                          |                                   | Proposed Mountains to Sea Trail |
| Proposed Service Roads                | STIP Projects                    |                                   | Current Mountains to Sea Trail  |
| Projects Currently Under Construction |                                  |                                   | Rivers                          |



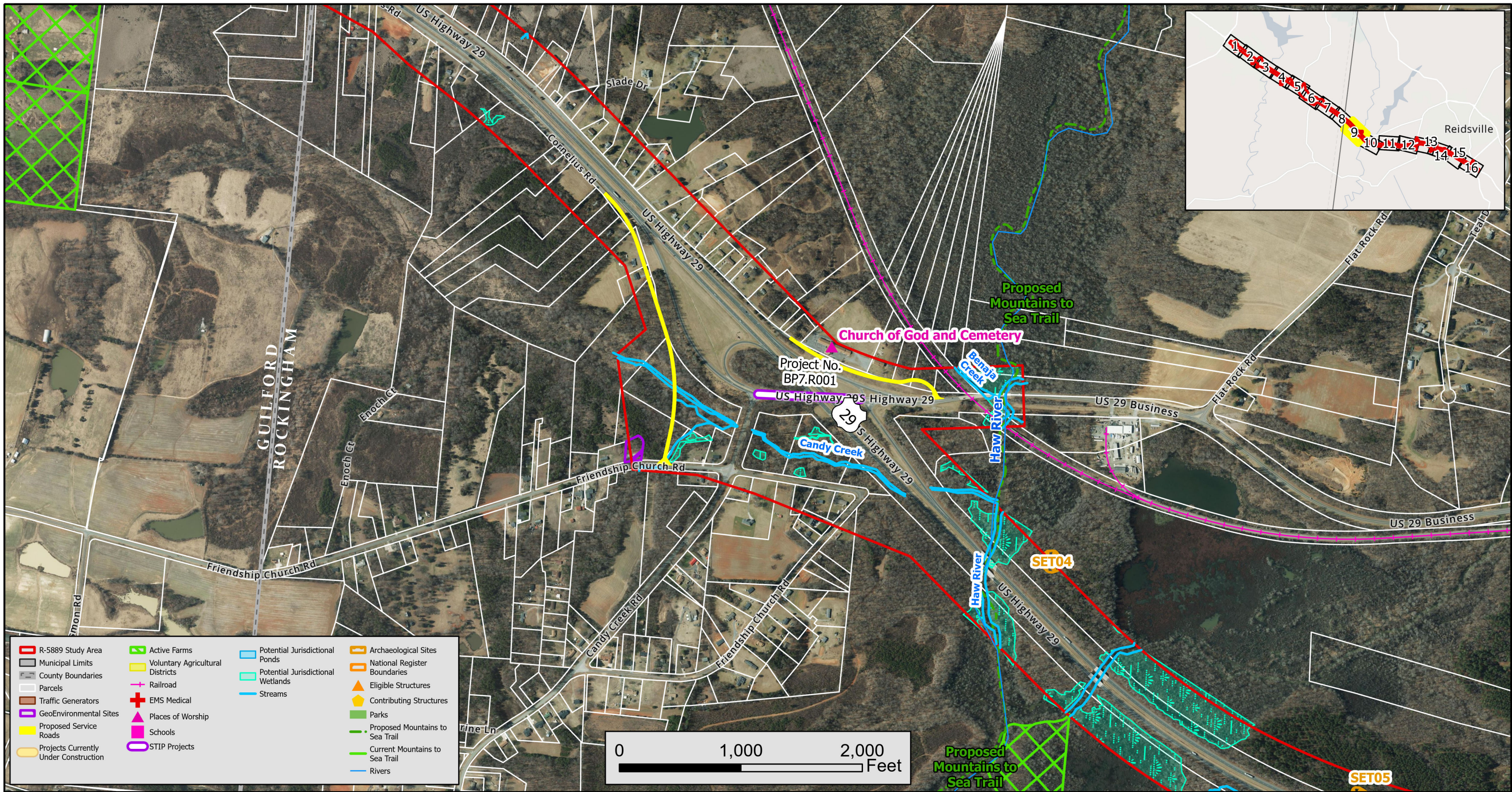
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 Prepared for

Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



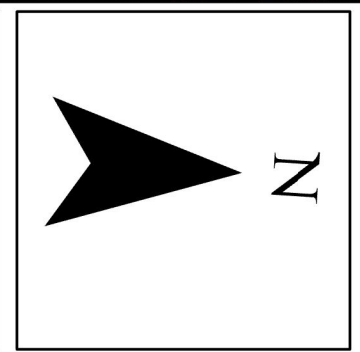
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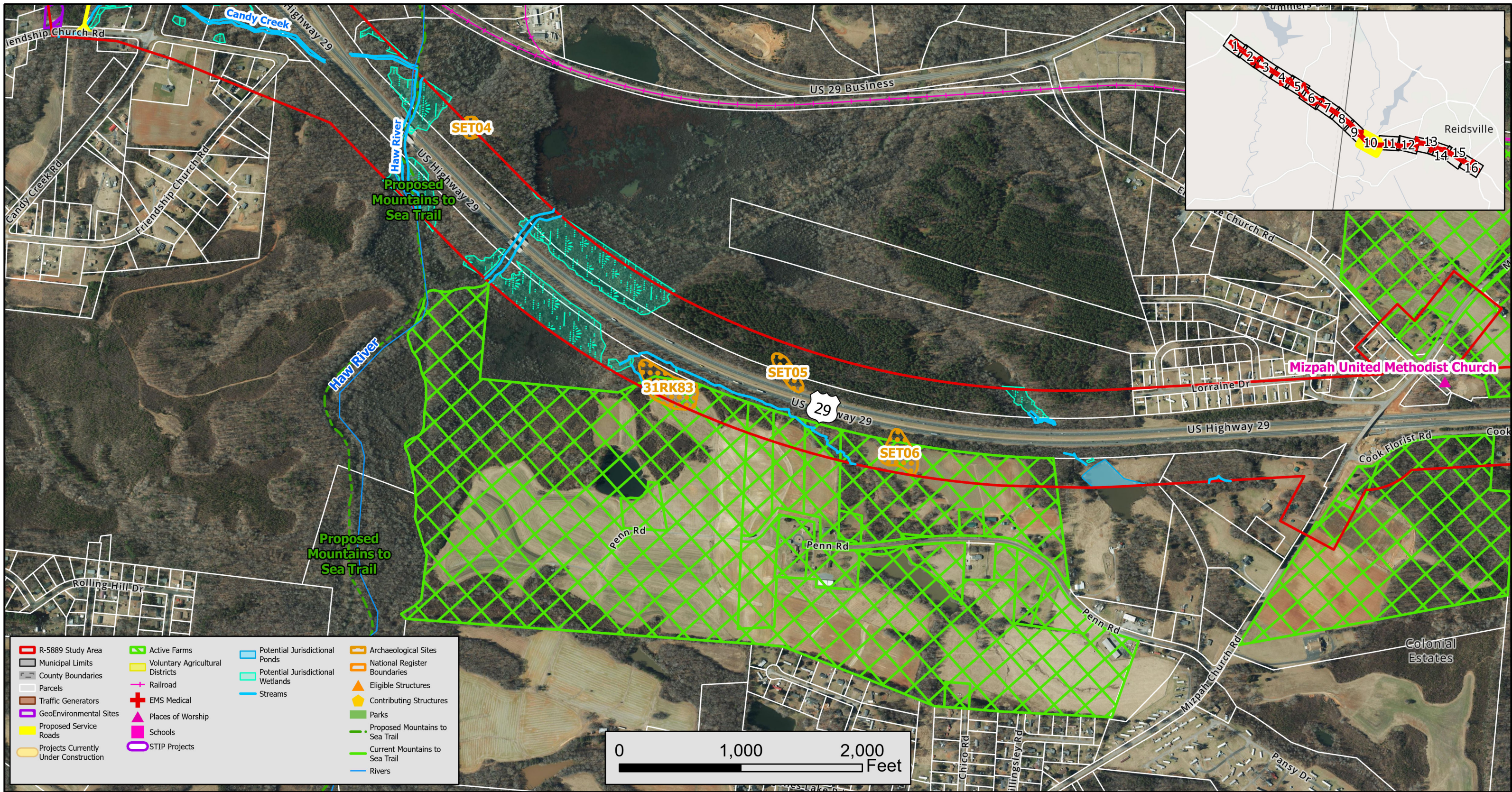
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## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



WBS #: 48394.1.1  
 Date: 6/18/2026  
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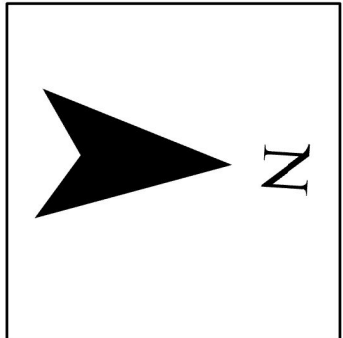
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Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
County Boundaries	Railroad	Streams	Eligible Structures
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Traffic Generators	Places of Worship		Parks
GeoEnvironmental Sites	Schools		Proposed Mountains to Sea Trail
Proposed Service Roads	STIP Projects		Current Mountains to Sea Trail
Projects Currently Under Construction			Rivers



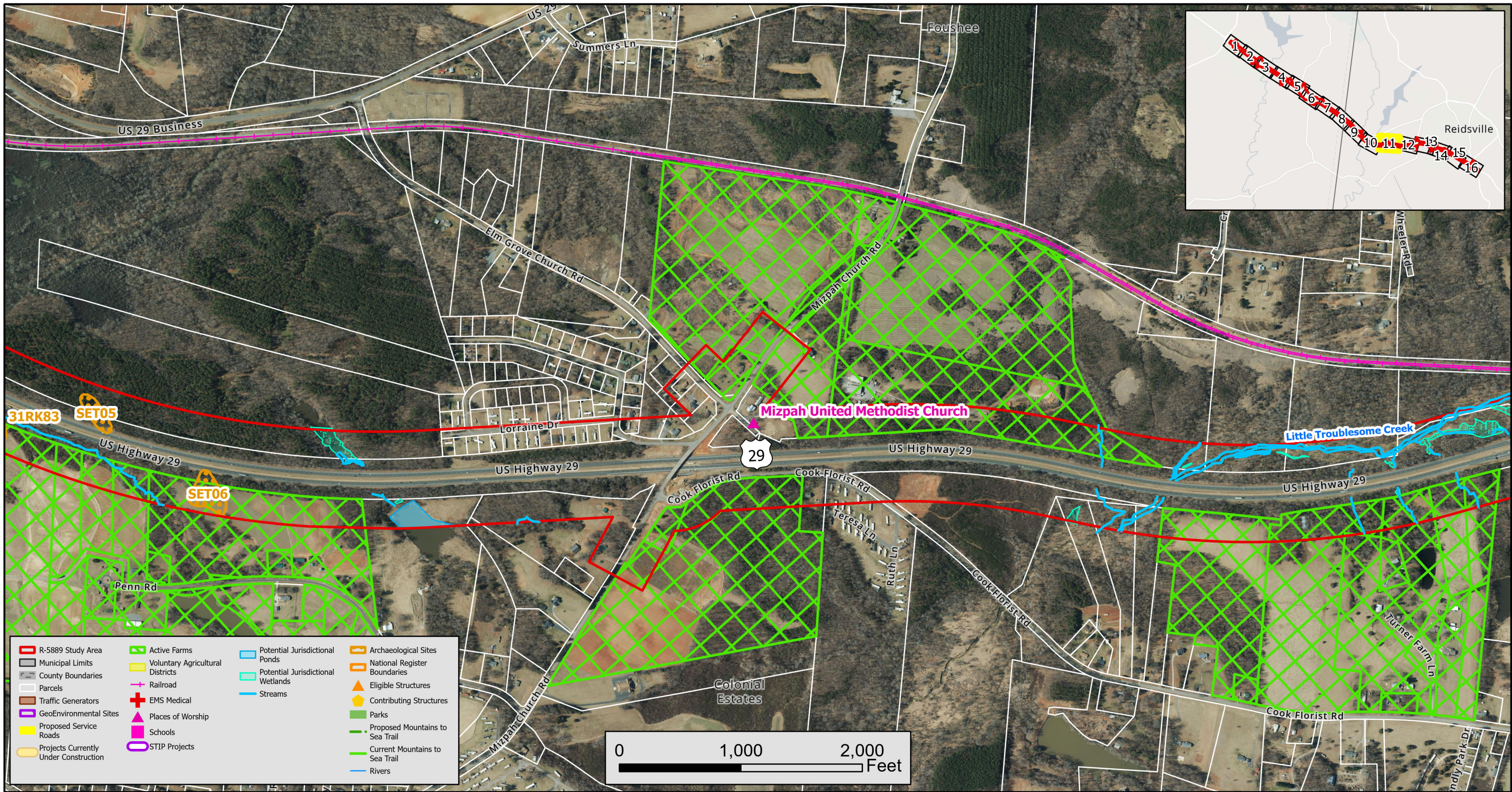
Prepared by  
**Dewberry**  
 Prepared for

Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



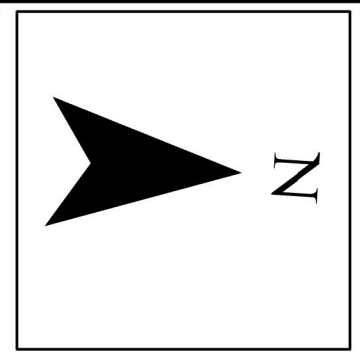
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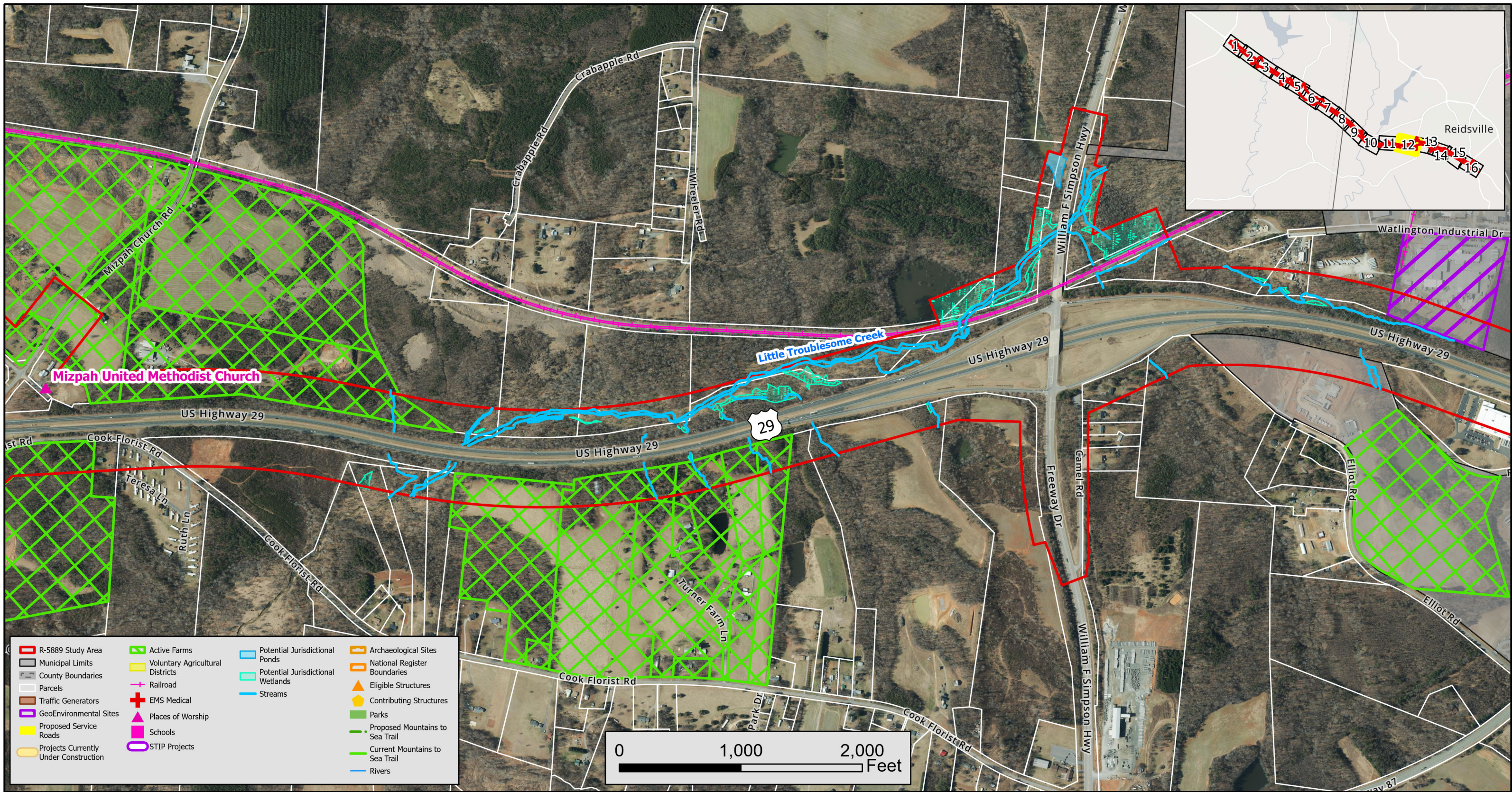
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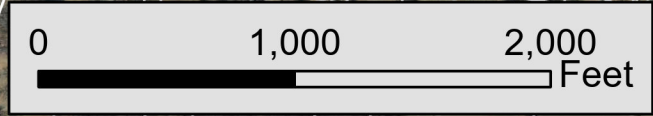
## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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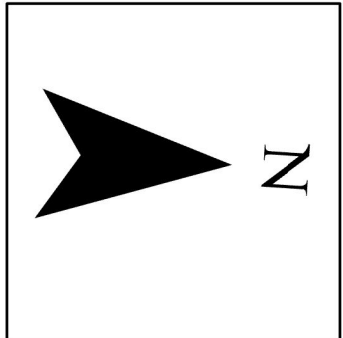
R-5889 Study Area	Active Farms	Potential Jurisdictional Ponds	Archaeological Sites
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Proposed Service Roads	STIP Projects		Current Mountains to Sea Trail
Projects Currently Under Construction			Rivers



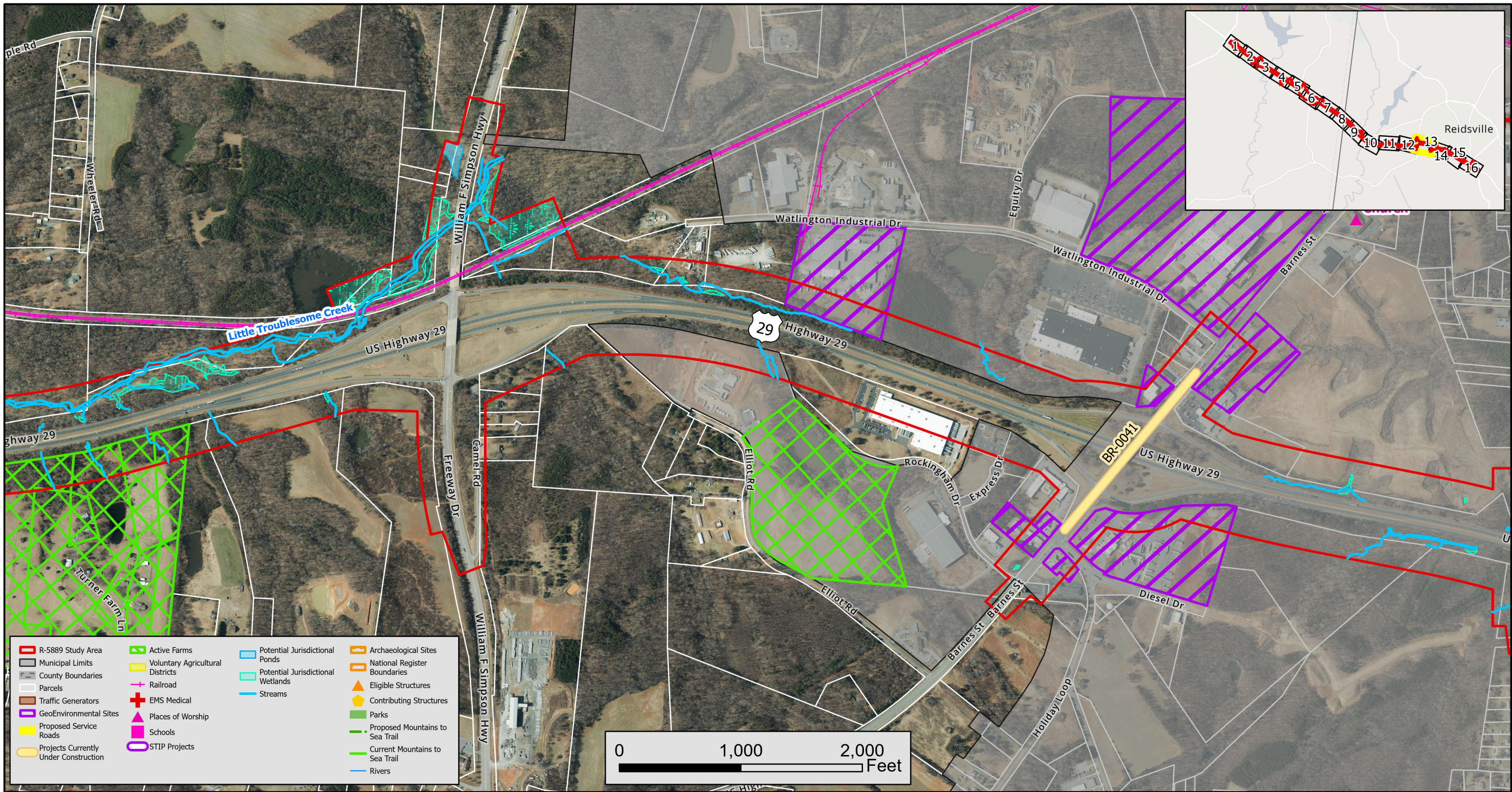
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## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



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 Figure: 4 Page: 12



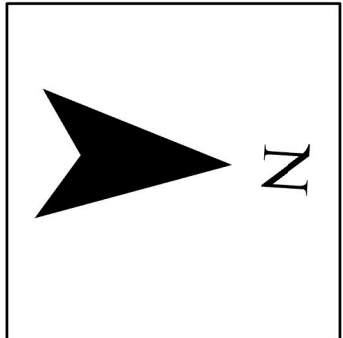
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| Municipal Limits                      | Voluntary Agricultural Districts | Potential Jurisdictional Wetlands | National Register Boundaries    |
| County Boundaries                     | Railroad                         | Streams                           | Eligible Structures             |
| Parcels                               | EMS Medical                      |                                   | Contributing Structures         |
| Traffic Generators                    | Places of Worship                |                                   | Parks                           |
| GeoEnvironmental Sites                | Schools                          |                                   | Proposed Mountains to Sea Trail |
| Proposed Service Roads                | STIP Projects                    |                                   | Current Mountains to Sea Trail  |
| Projects Currently Under Construction |                                  |                                   | Rivers                          |



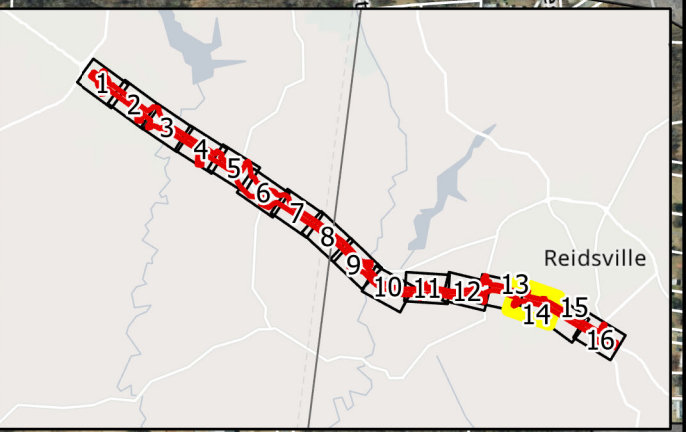
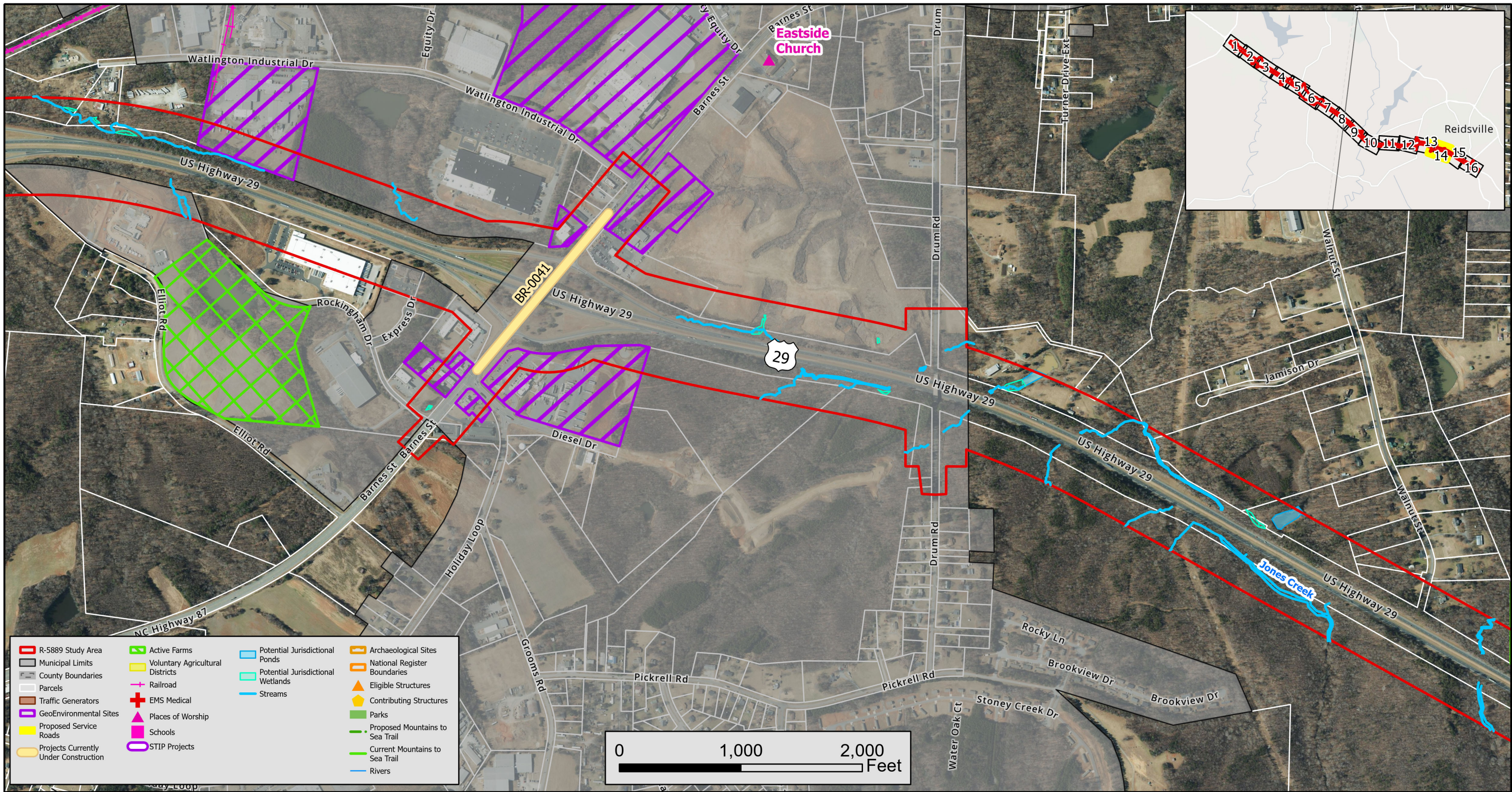
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 Prepared for

Sources: NC OneMap, ESRI Basemap, Guilford County Open Data, Rockingham County Open Data, HPO Web 2.0, Project Study Area, Stream, Wetland, and Service Roads created by Dewberry.

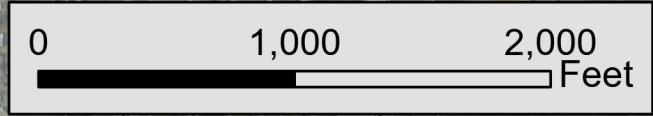
## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



WBS #: 48394.1.1  
 Date: 6/18/2026  
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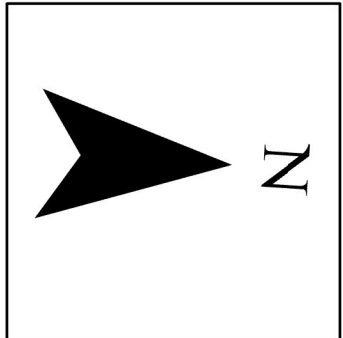
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Municipal Limits	Voluntary Agricultural Districts	Potential Jurisdictional Wetlands	National Register Boundaries
County Boundaries	Railroad	Streams	Eligible Structures
Parcels	EMS Medical		Contributing Structures
Traffic Generators	Places of Worship		Parks
GeoEnvironmental Sites	Schools		Proposed Mountains to Sea Trail
Proposed Service Roads	STIP Projects		Current Mountains to Sea Trail
Projects Currently Under Construction			Rivers



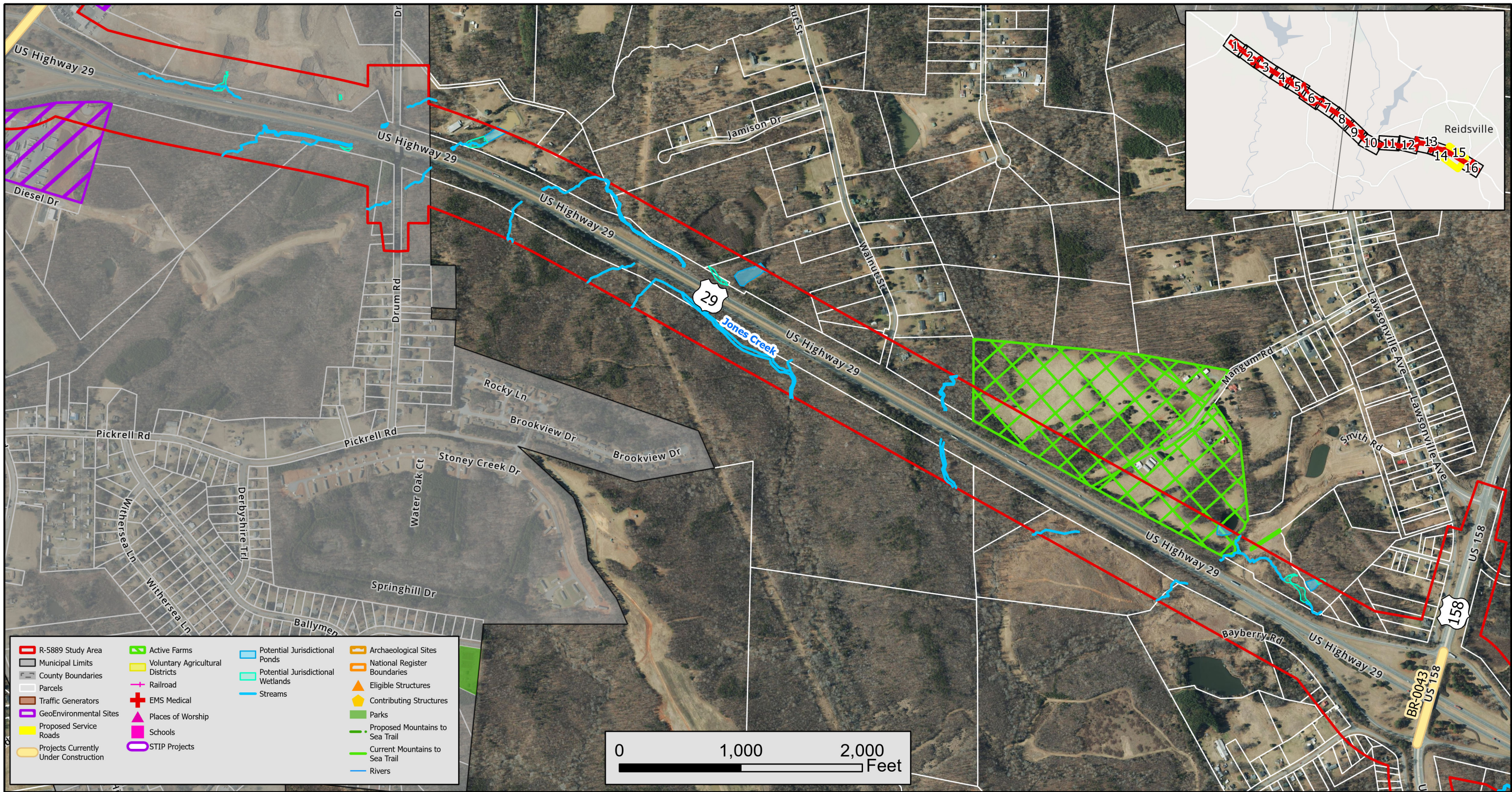
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## Environmental Features Map R-5889: US 29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham County, NC



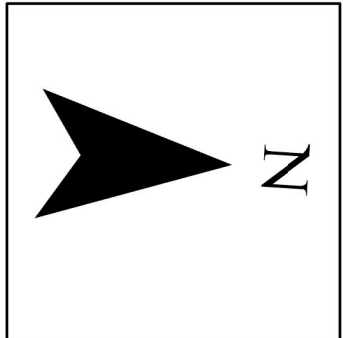
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 Date: 6/18/2026  
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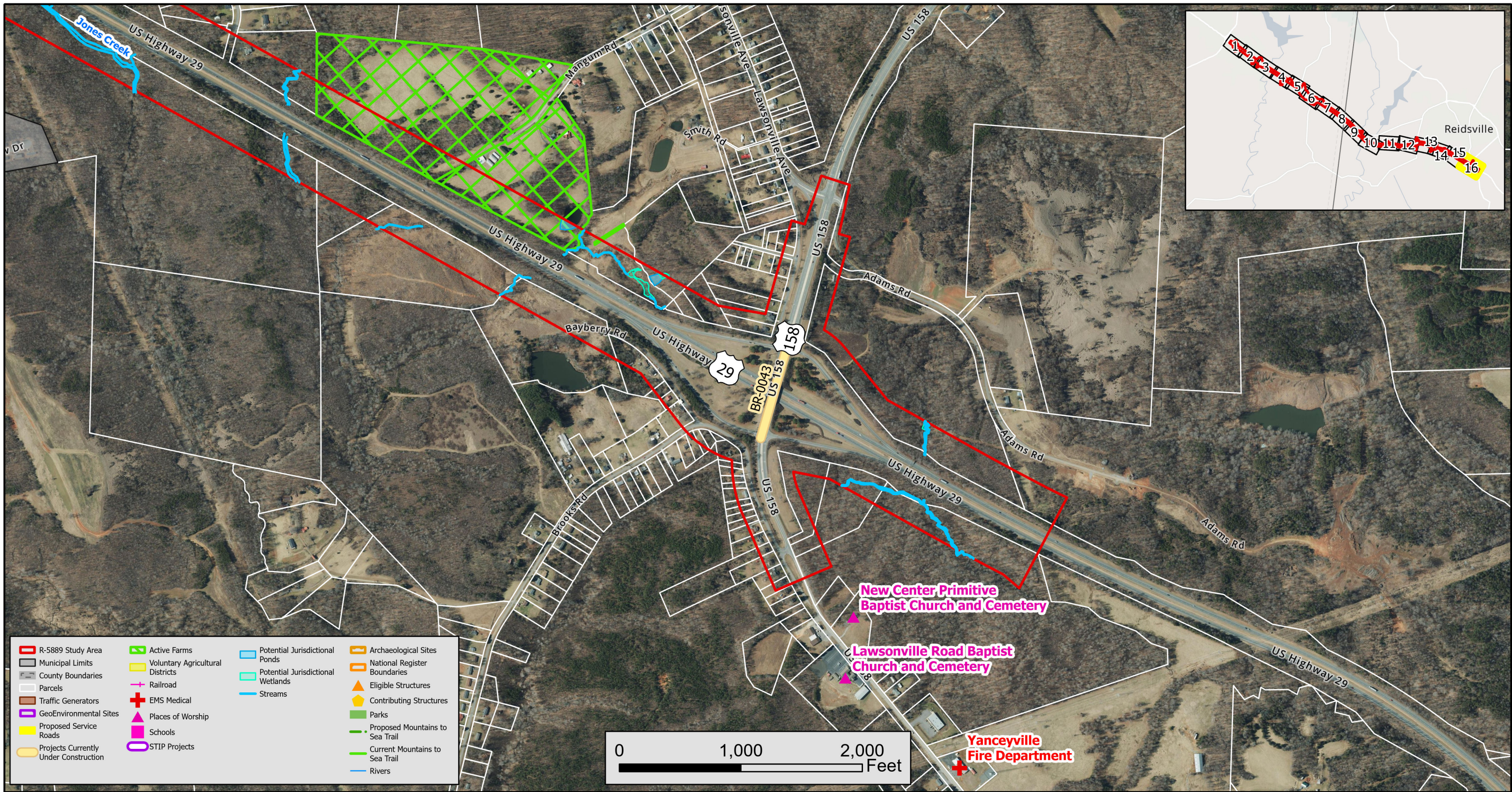
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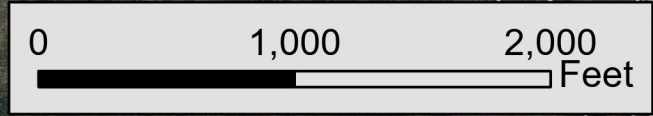
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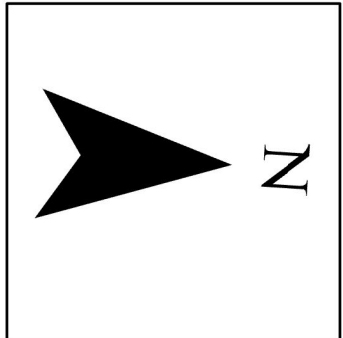
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Prepared by  
 Dewberry  
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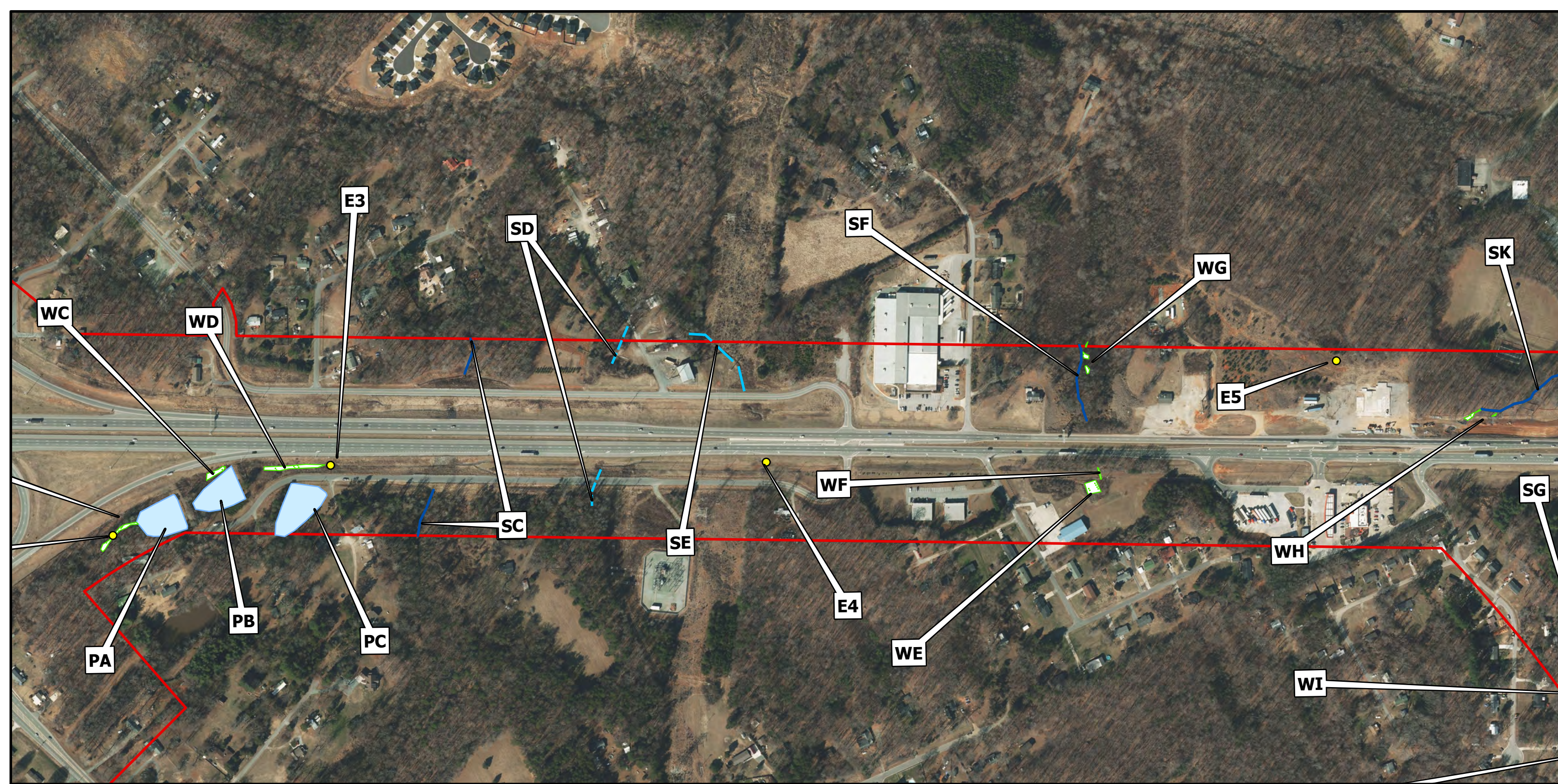
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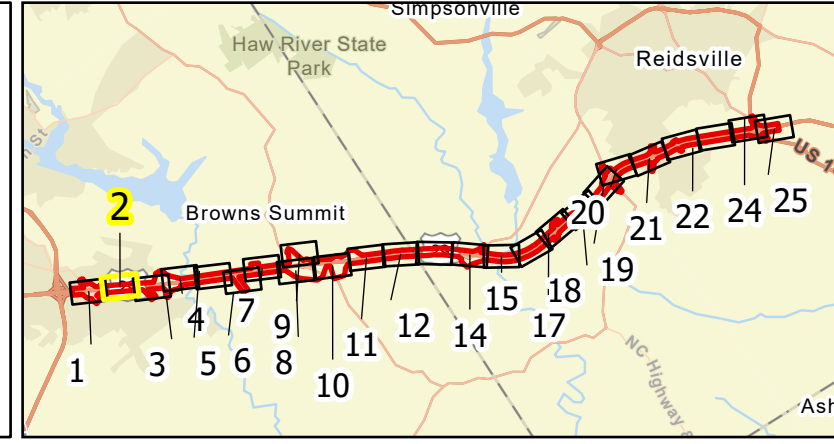
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- Perennial Stream
- - - Intermittent Stream
- ▨ Wetland
- ▭ Pond
- Ephemeral

0      300      600  
 Feet

Prepared by:  
**Dewberry**

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



WBS #: 48394.1.1

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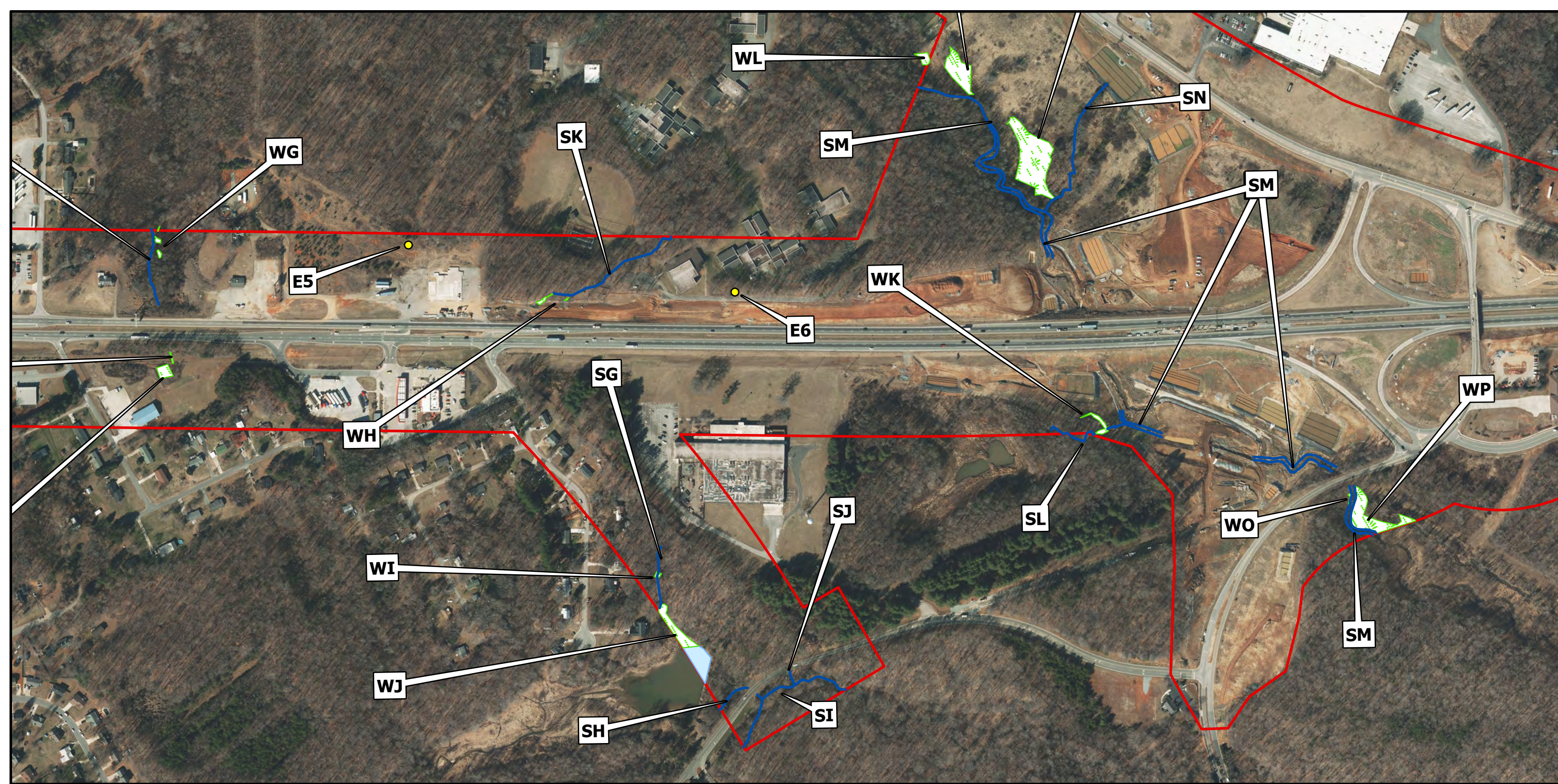
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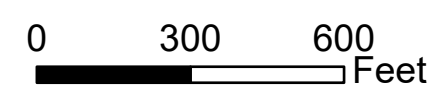
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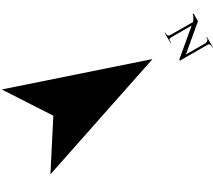


- ▭ Study Area
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- - - Intermittent Stream
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- ▭ Pond
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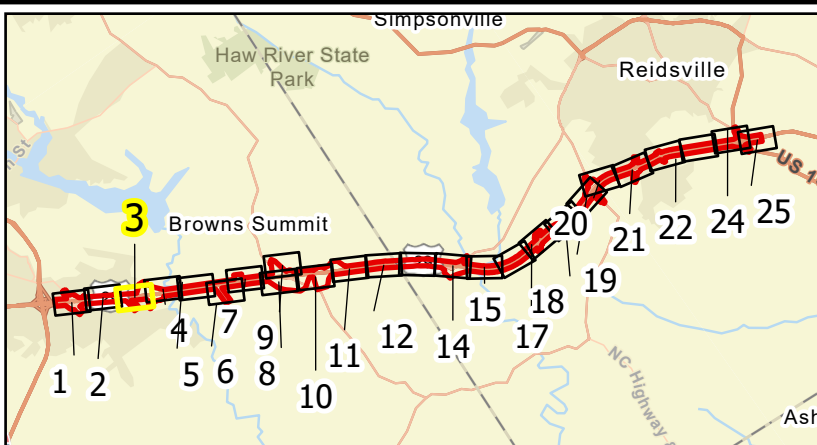


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## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



WBS #: 48394.1.1

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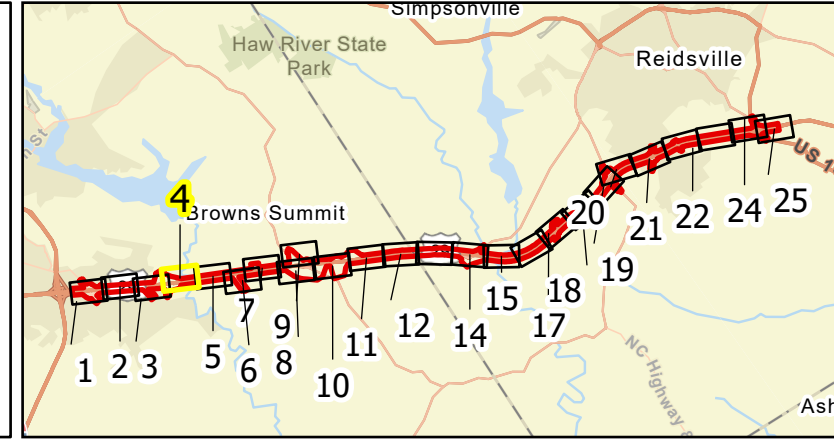
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- ▨ Wetland
- ▭ Pond
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 Feet

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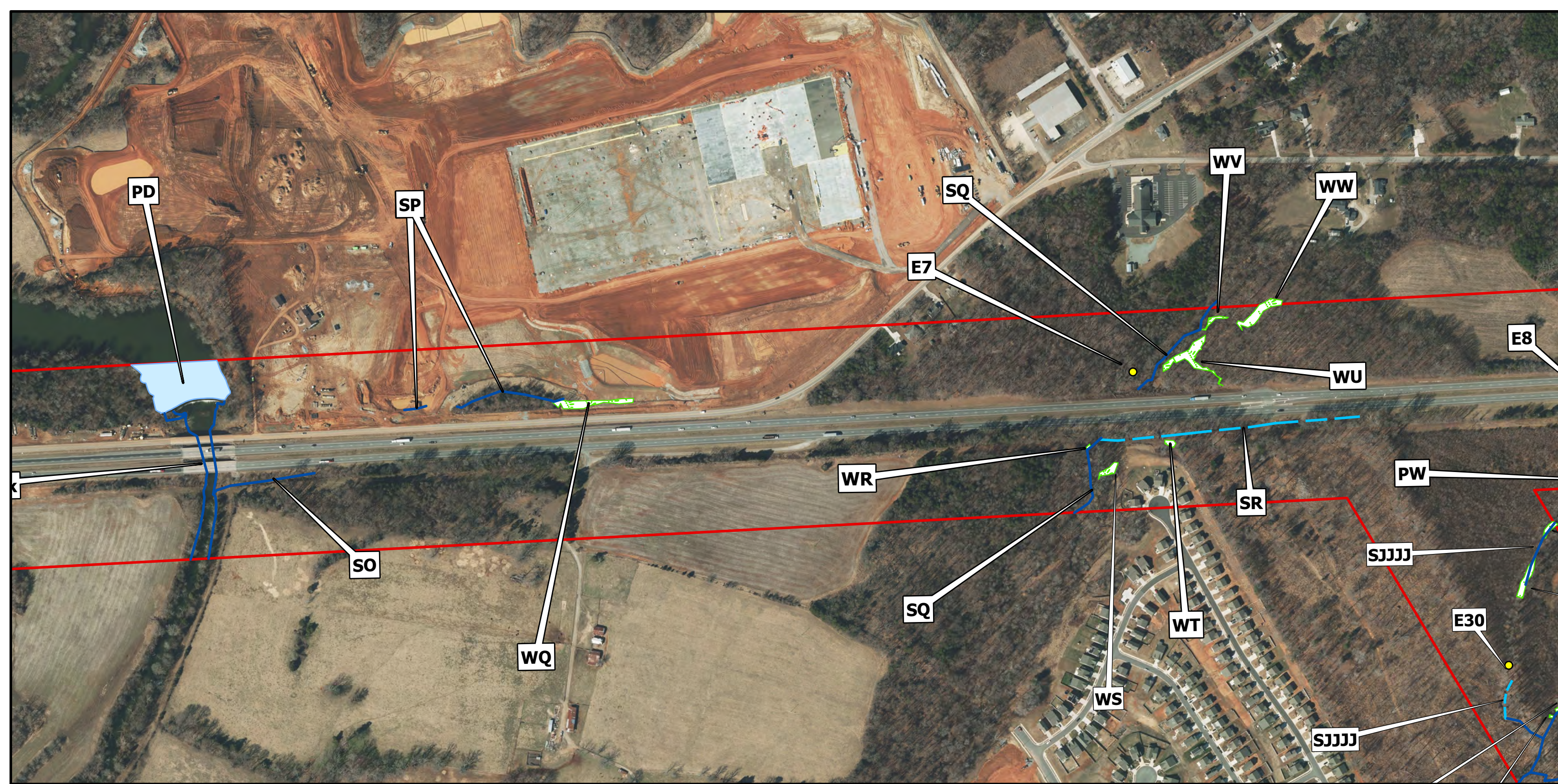
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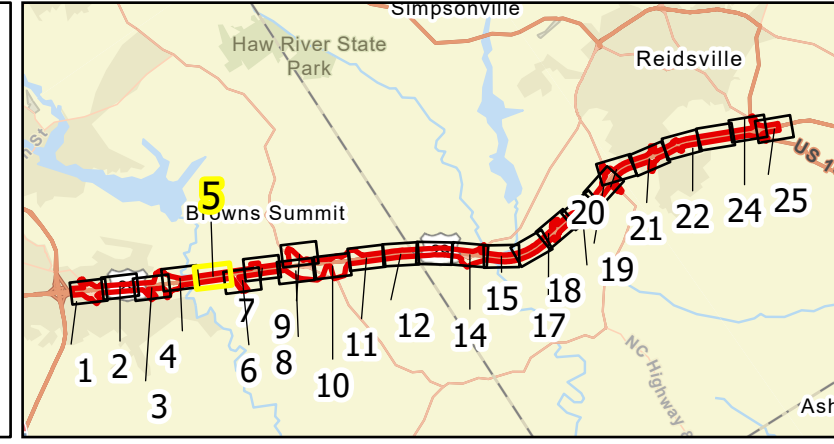
- ▭ Study Area
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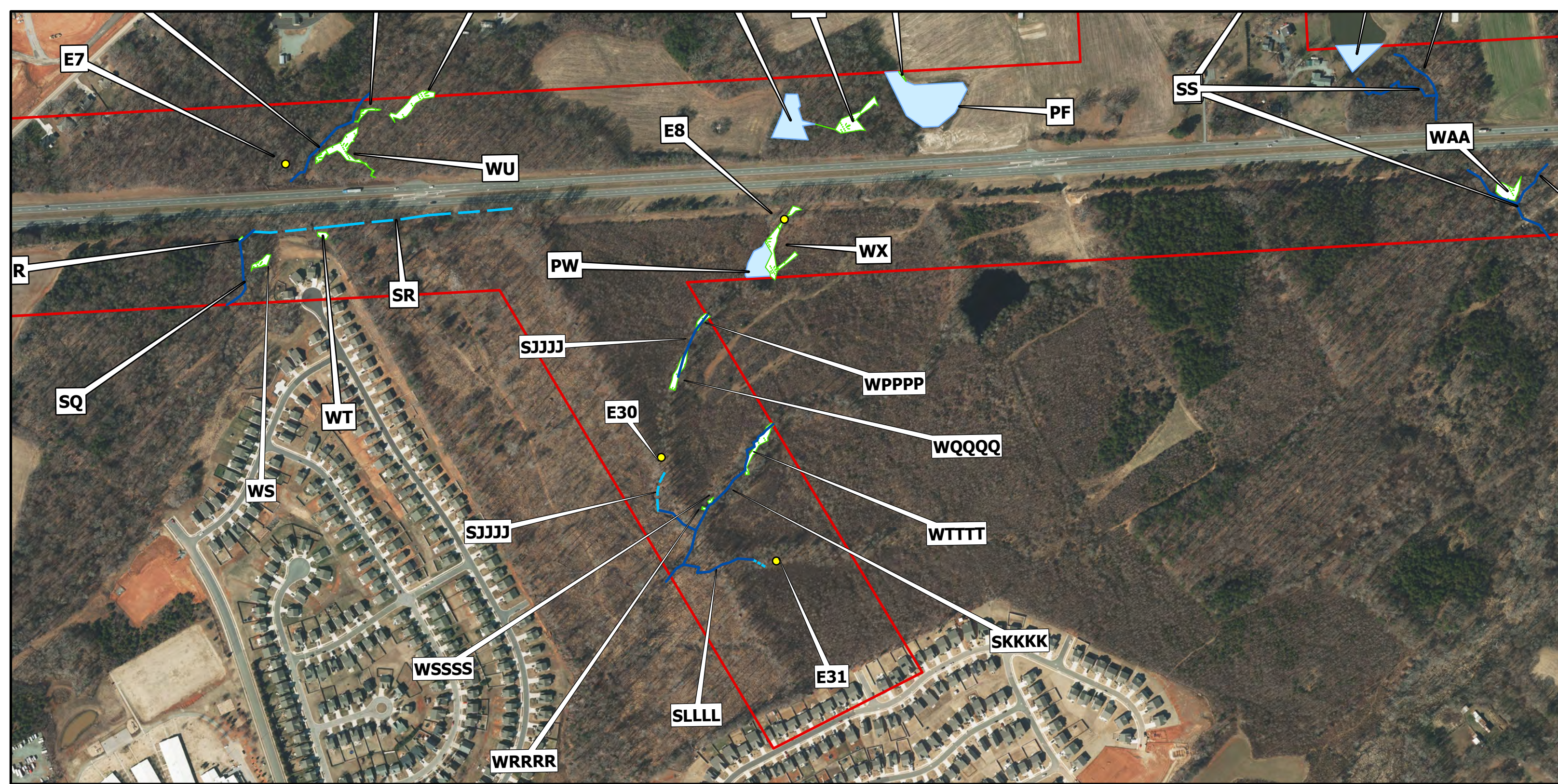
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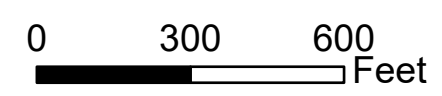
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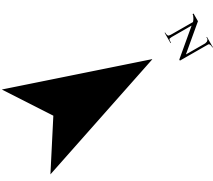


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- ▭ Wetland
- ▭ Pond
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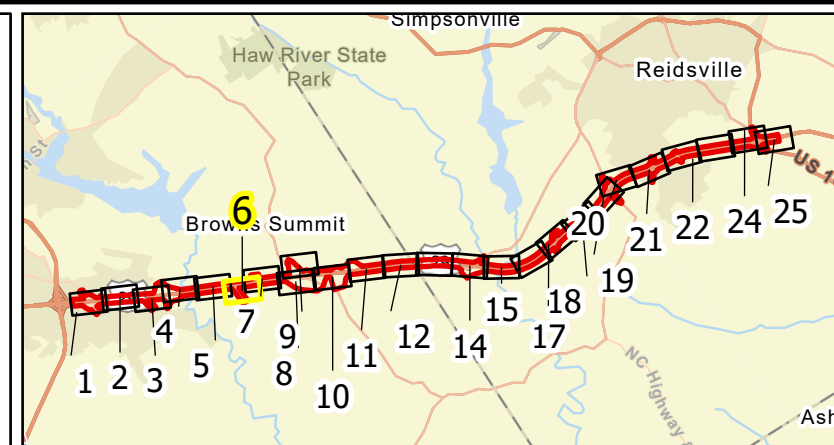


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## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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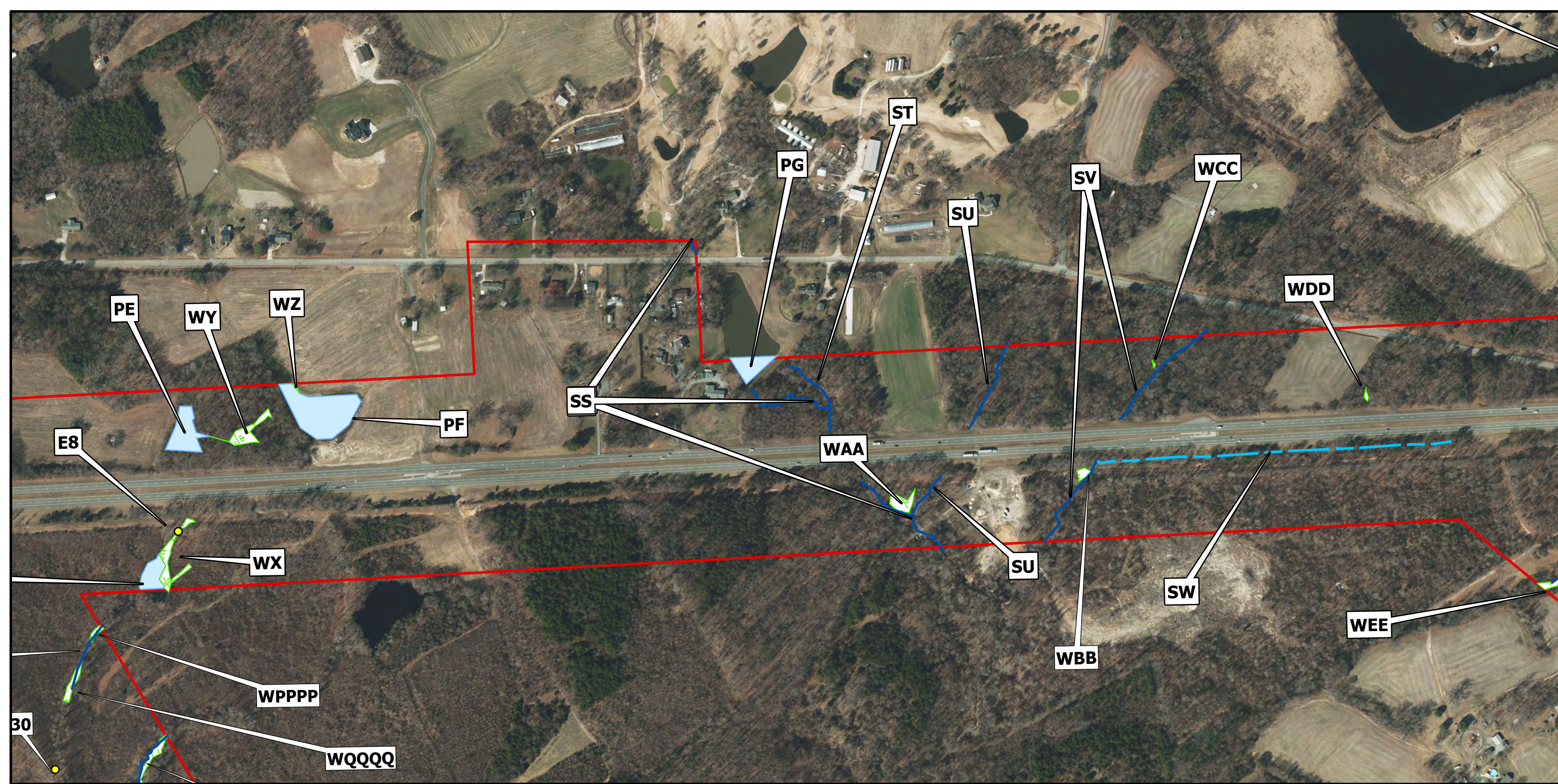
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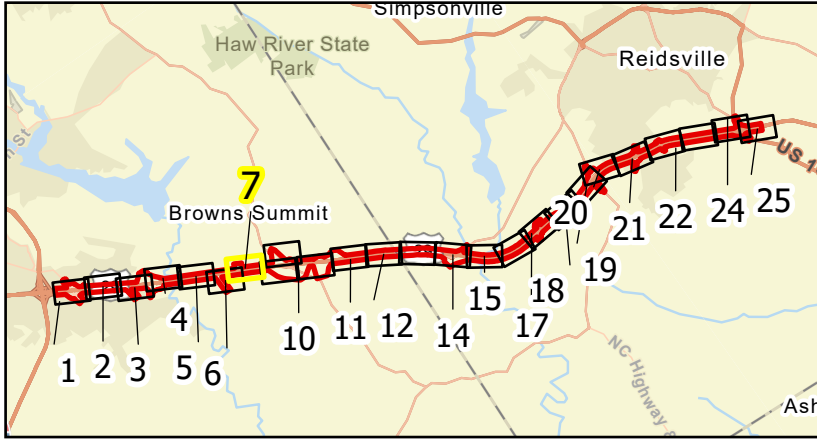
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- - - Intermittent Stream
- ▨ Wetland
- ▭ Pond
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 Feet

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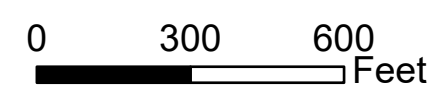
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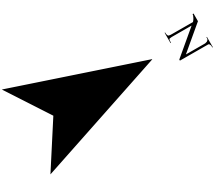


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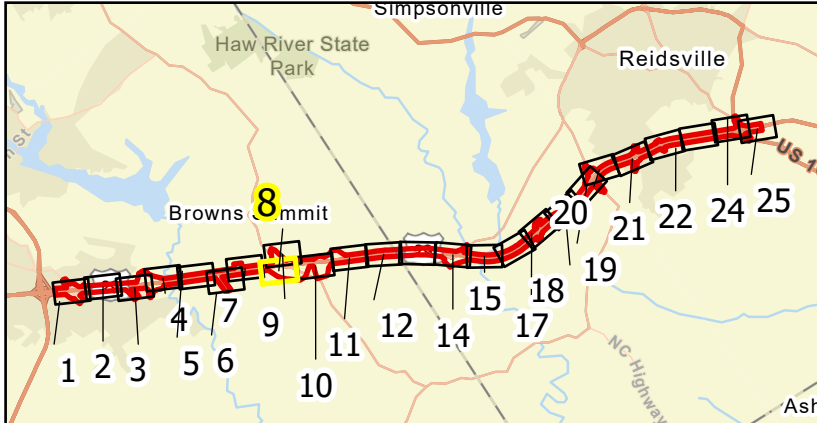


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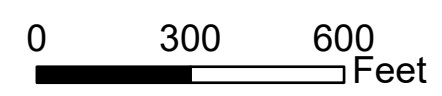
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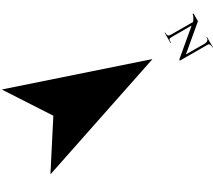


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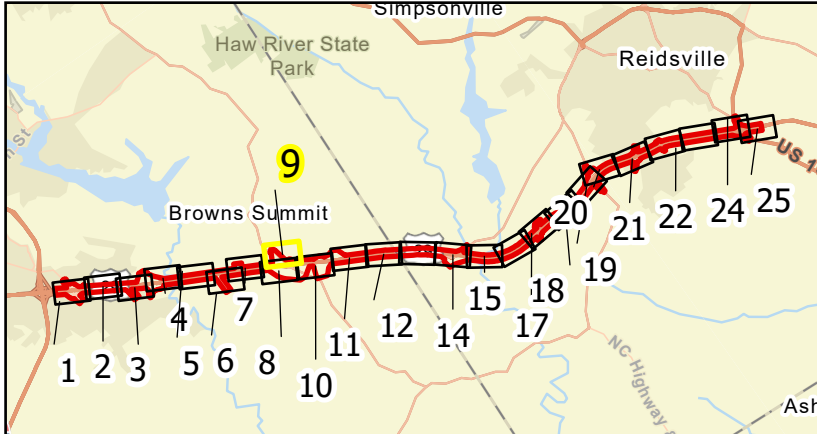


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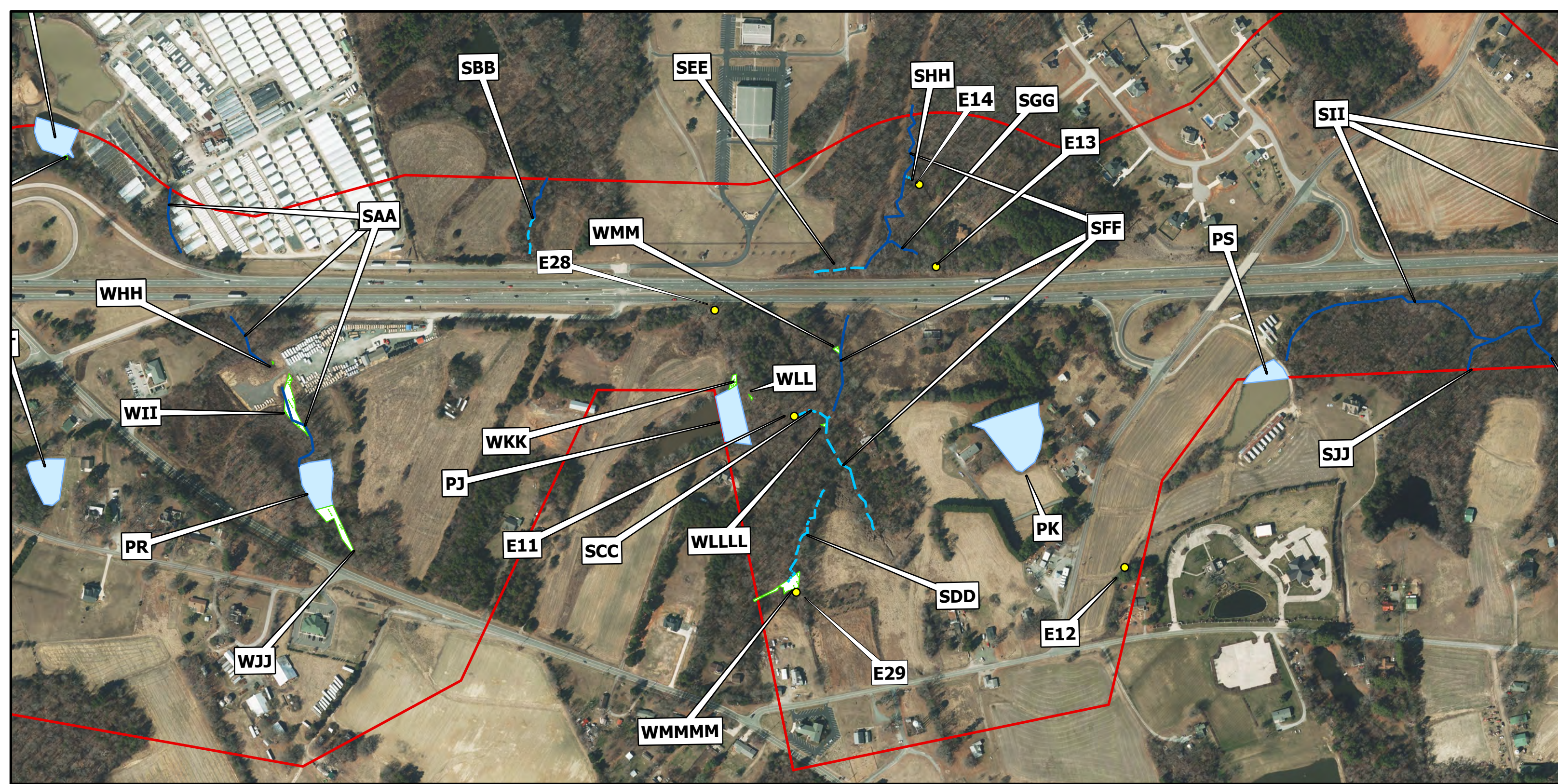
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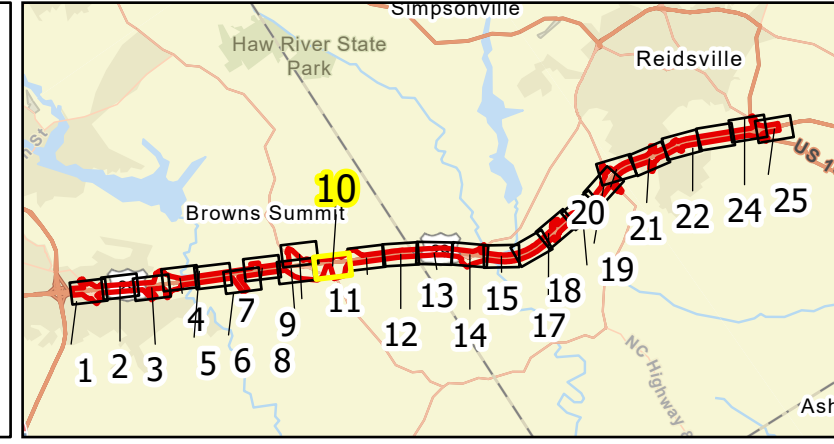
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- ▭ Pond
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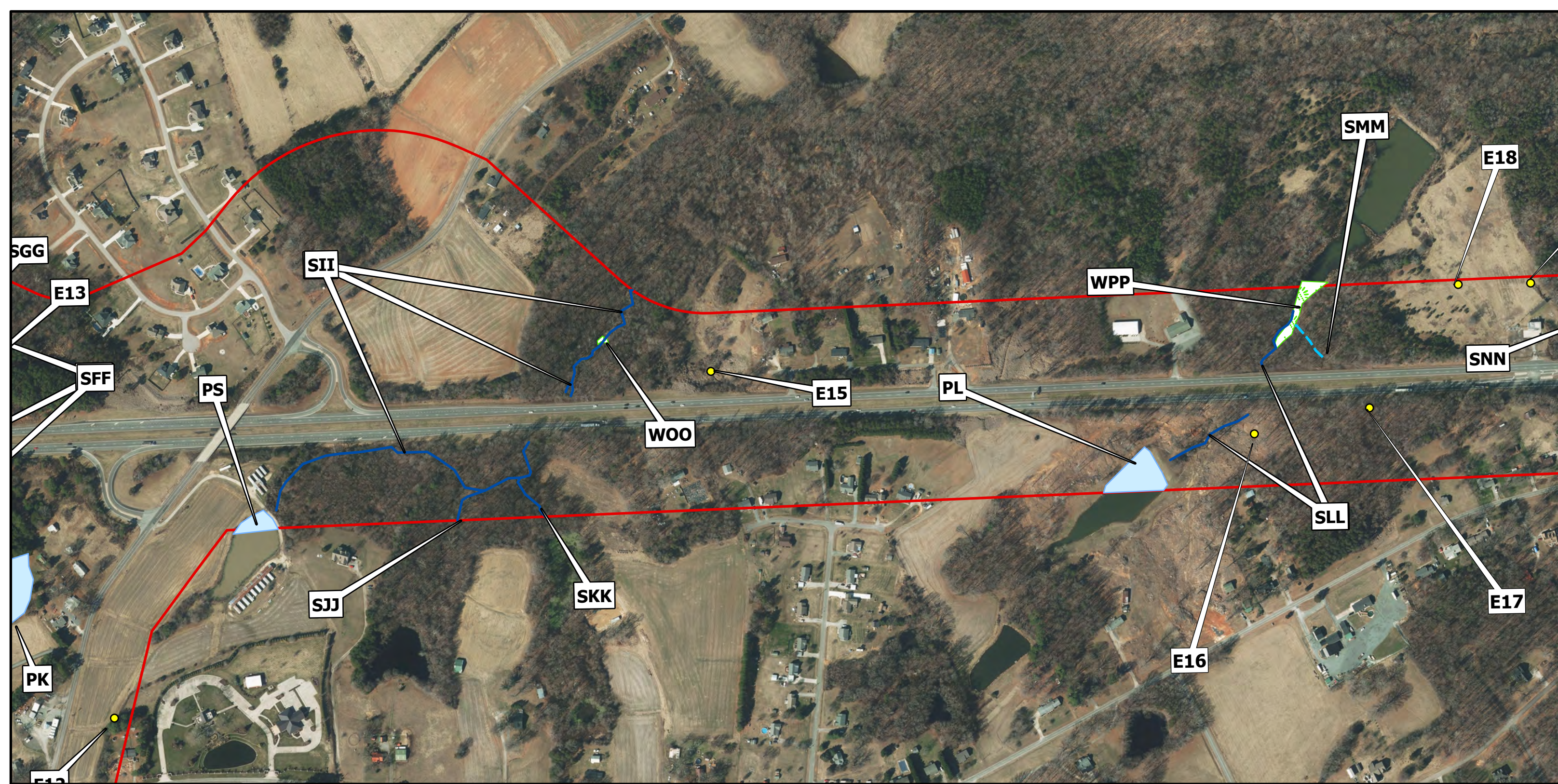
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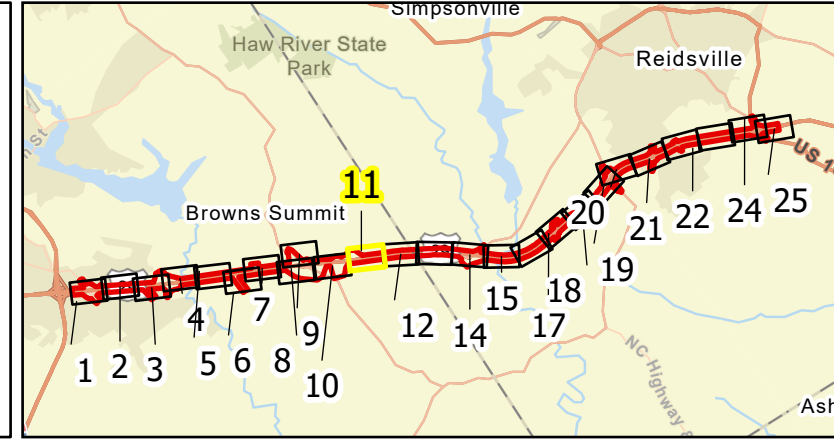
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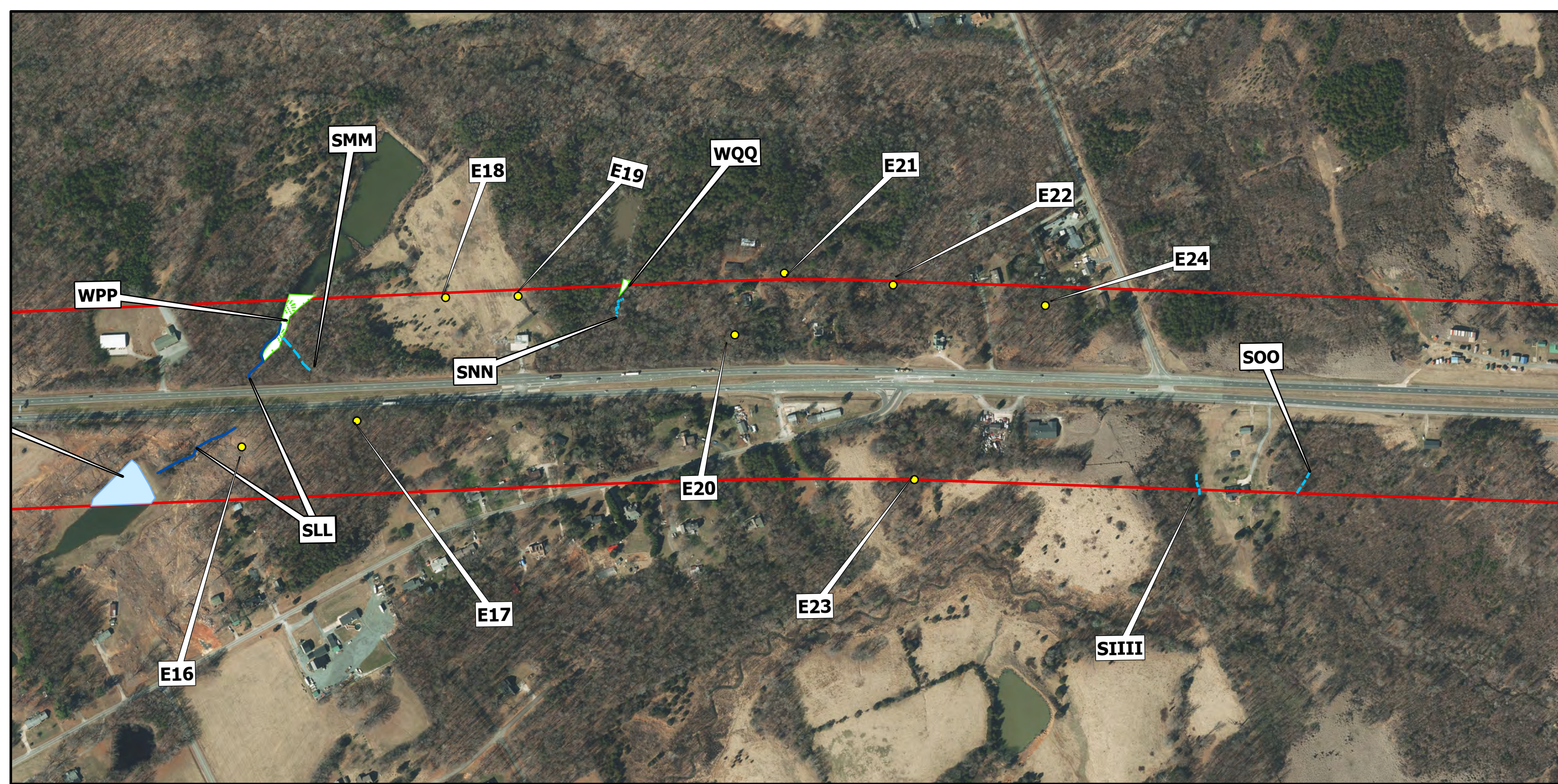
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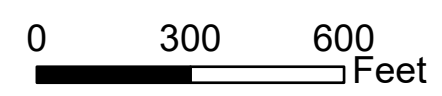
## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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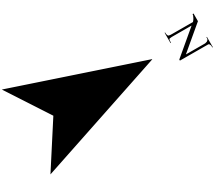


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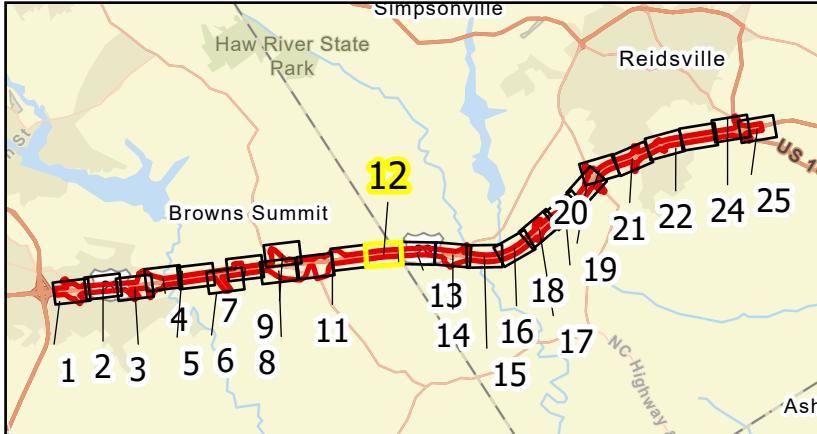


Prepared by:  
**Dewberry**

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**Water Resources Map  
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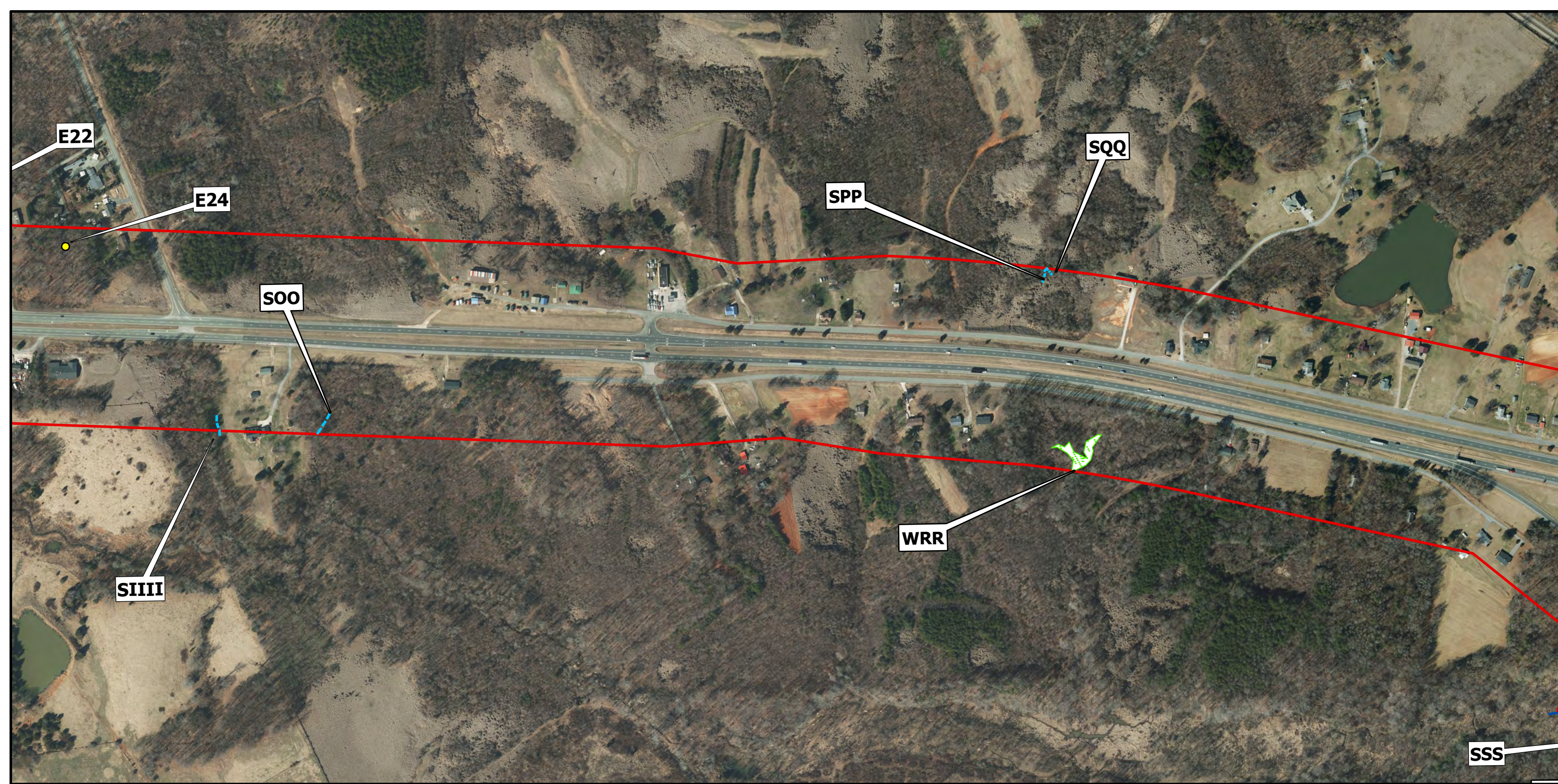
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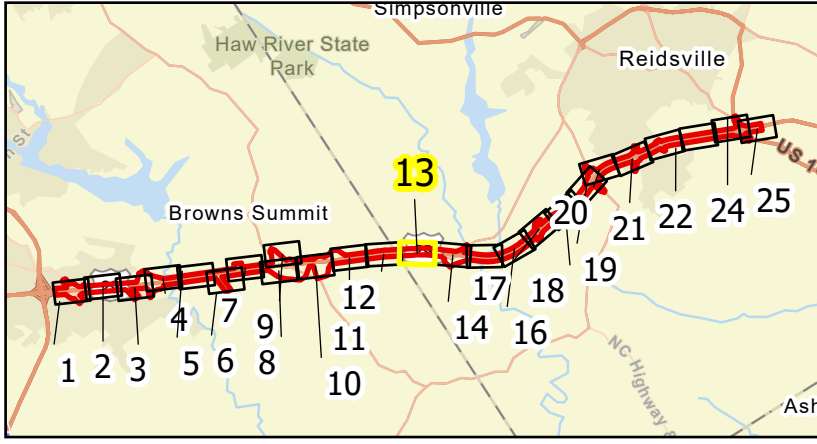
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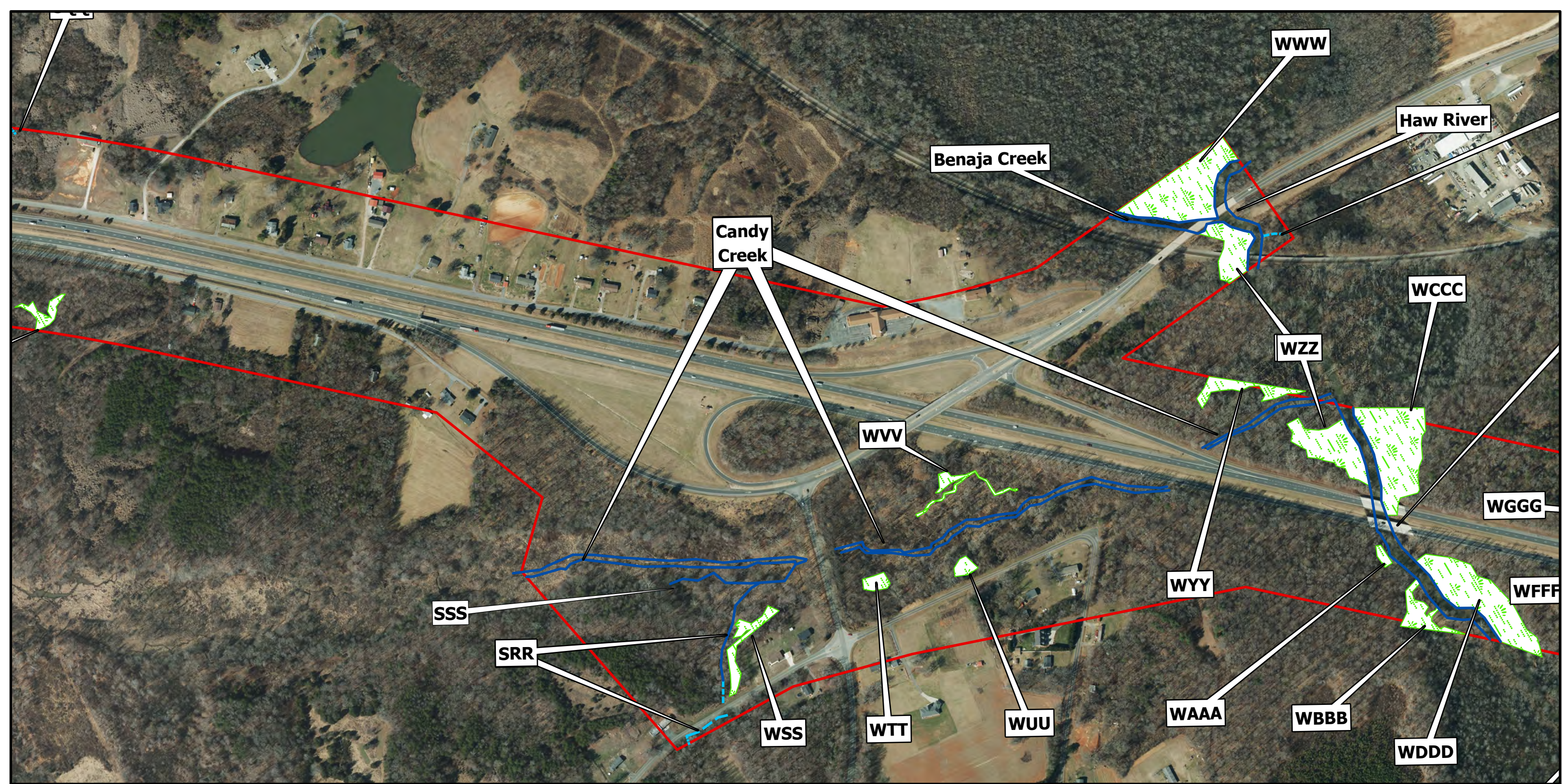
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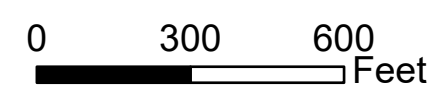
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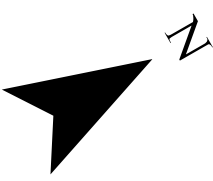


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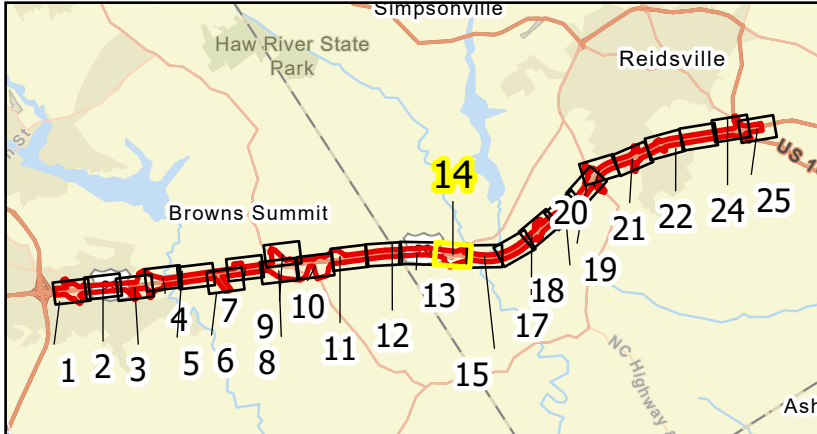


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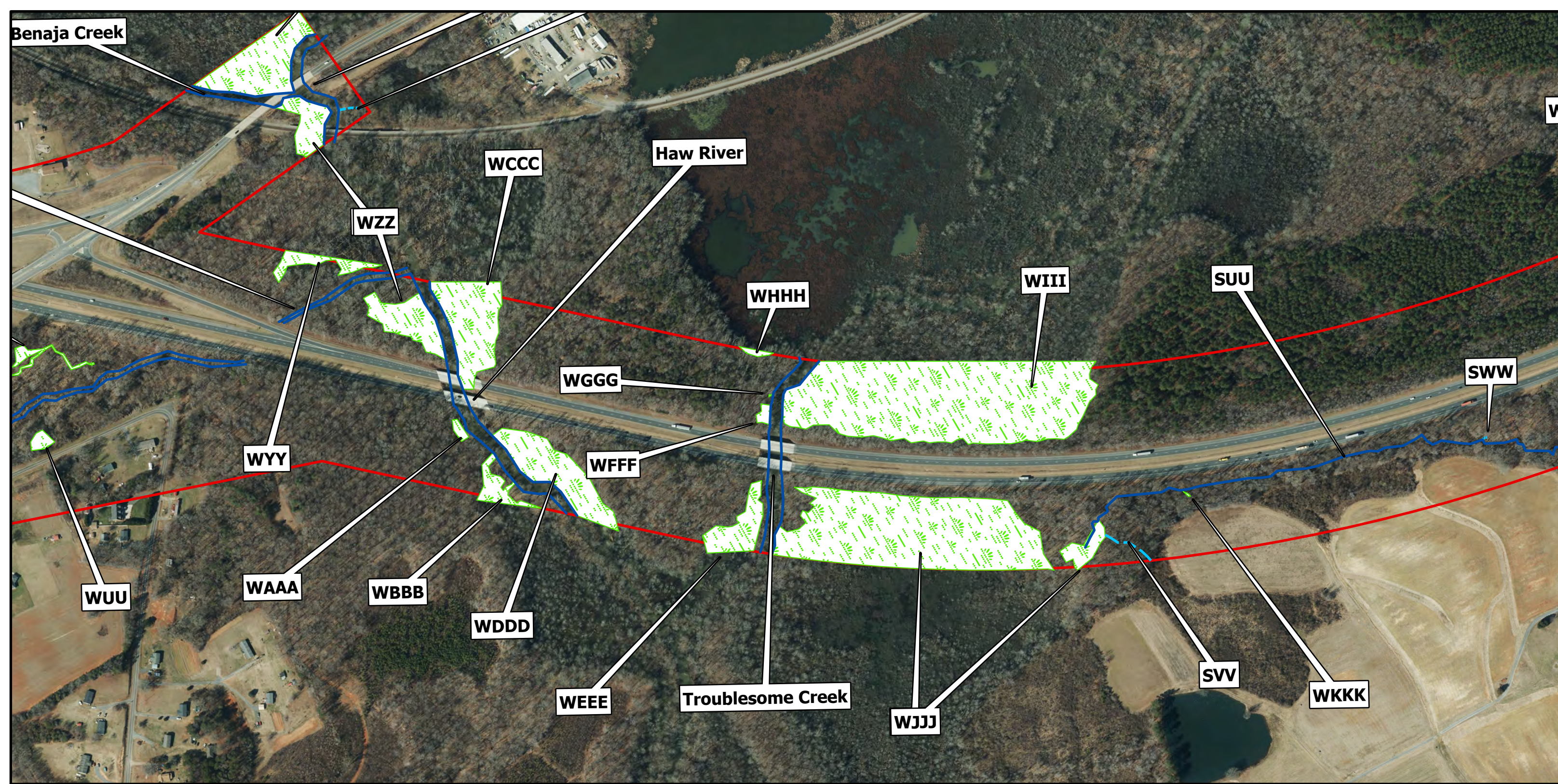
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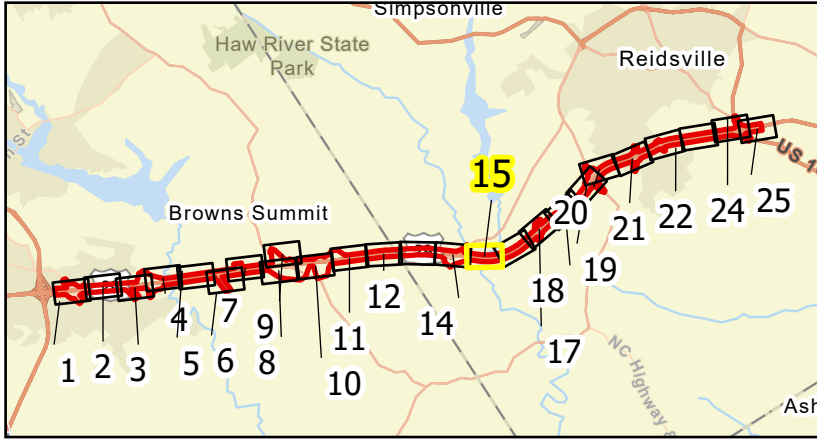
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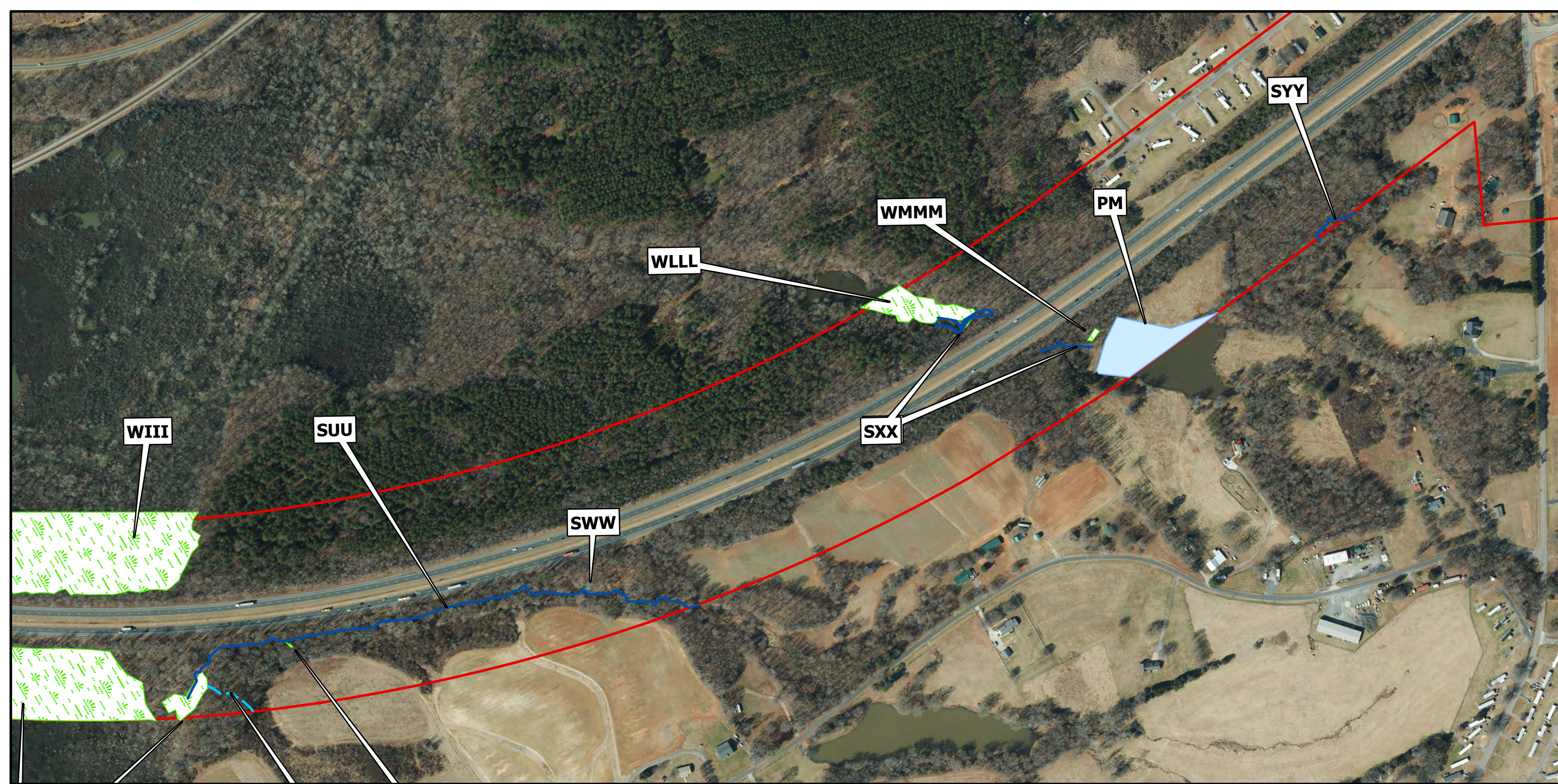
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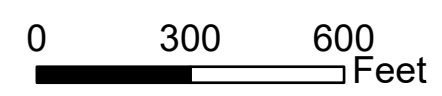
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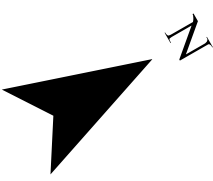


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- ▭ Pond
- Ephemeral

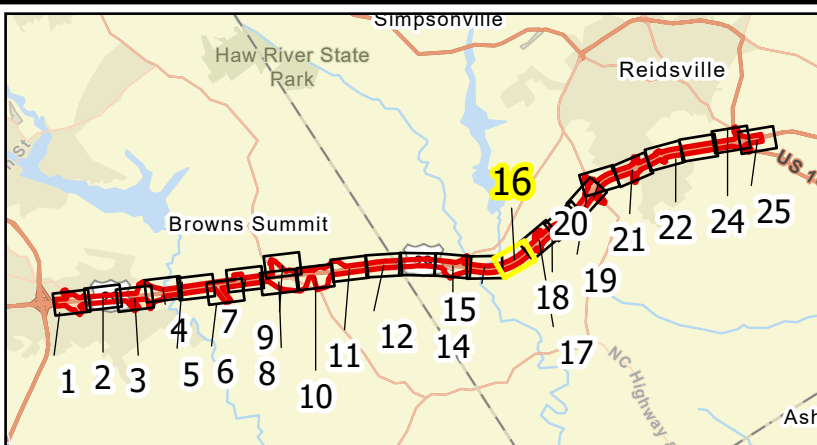


Prepared by:  
**Dewberry**

Prepared for:



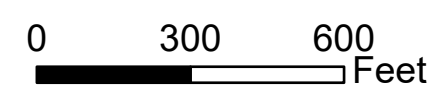
**Water Resources Map  
 R-5889: US-29 (Future I-785)  
 Upgrade Corridor to  
 Interstate Standards  
 Guilford/Rockingham Counties, NC**



WBS #: 48394.1.1  
 Figure: 4  
 Page: 16 of 25  
 Scale: 1:4,500  
 Date: 7/14/2025  
 Drwn/Chkd: JKM/BMF  
 Sources: NC OneMap, ESRI Basemap  
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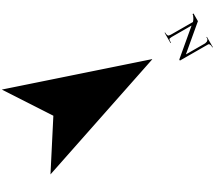


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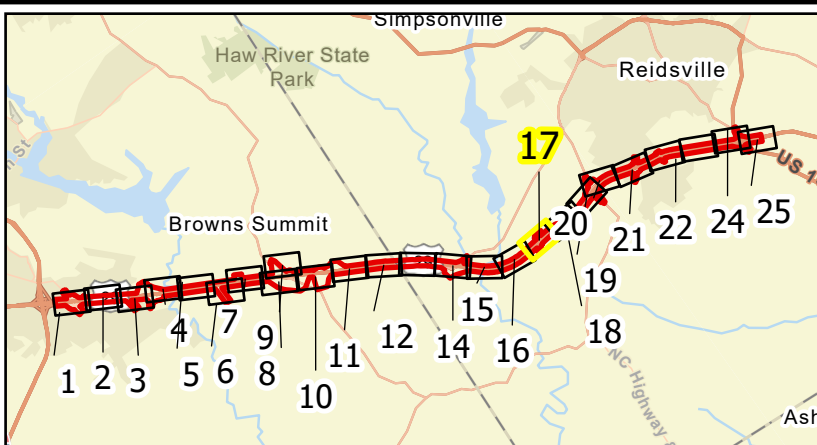


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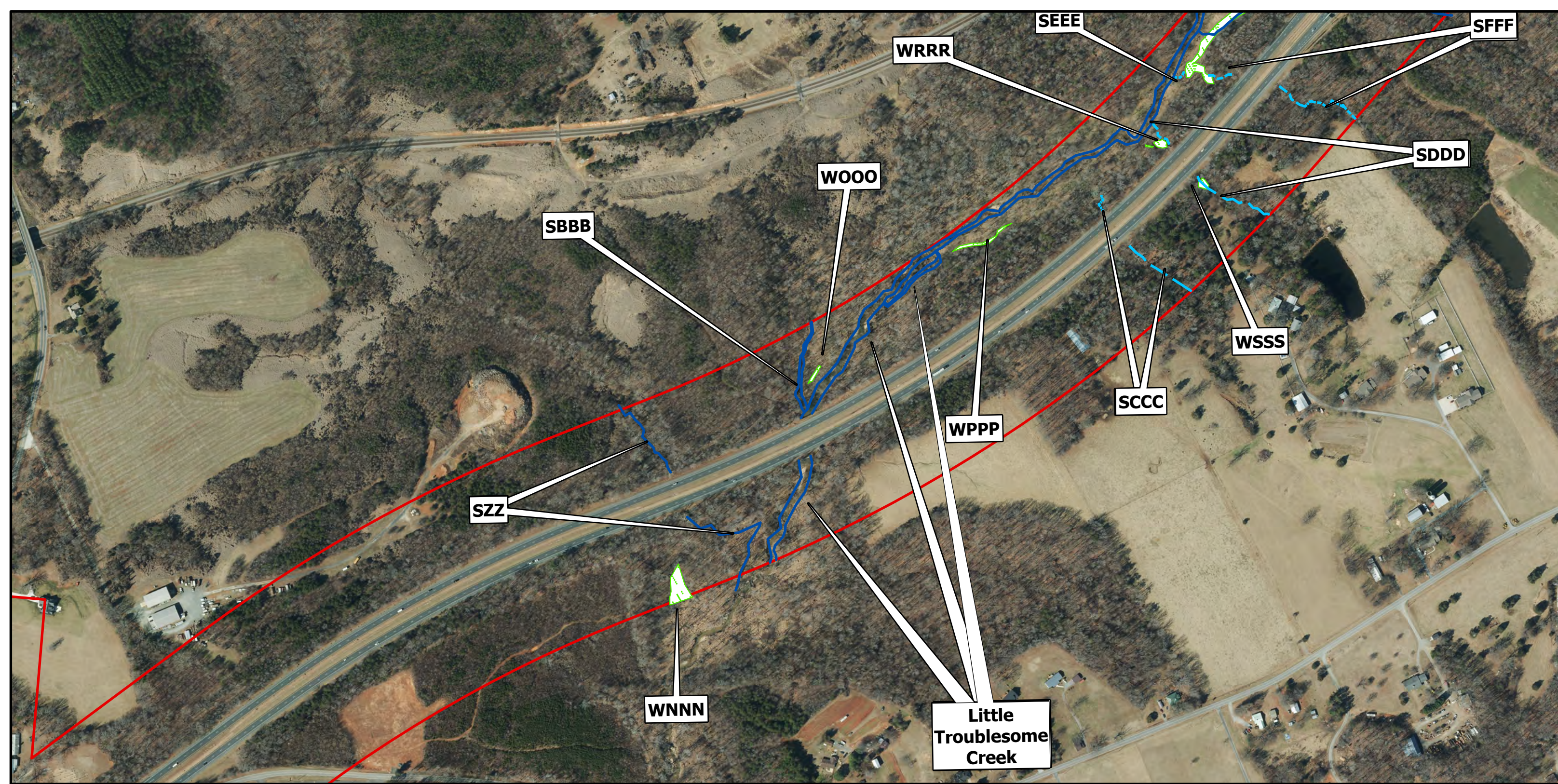
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## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC

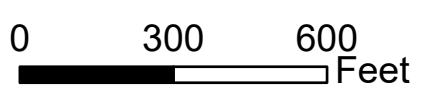


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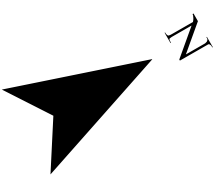
**Little  
Troublesome  
Creek**

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- - - Intermittent Stream
- ▭ Wetland
- ▭ Pond
- Ephemeral

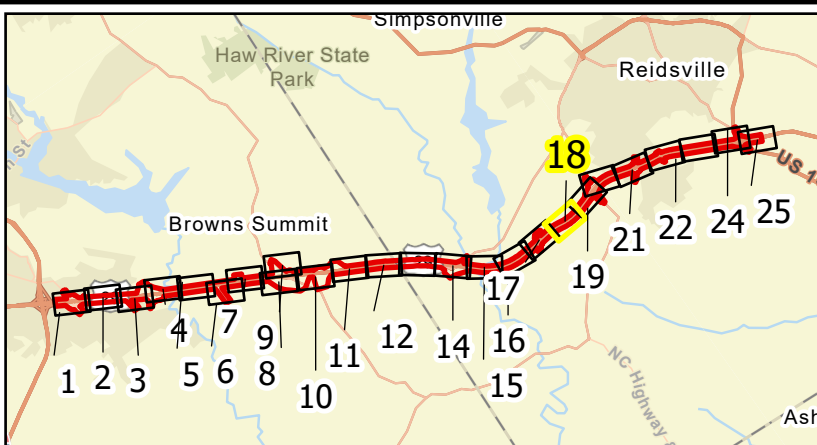


Prepared by:  
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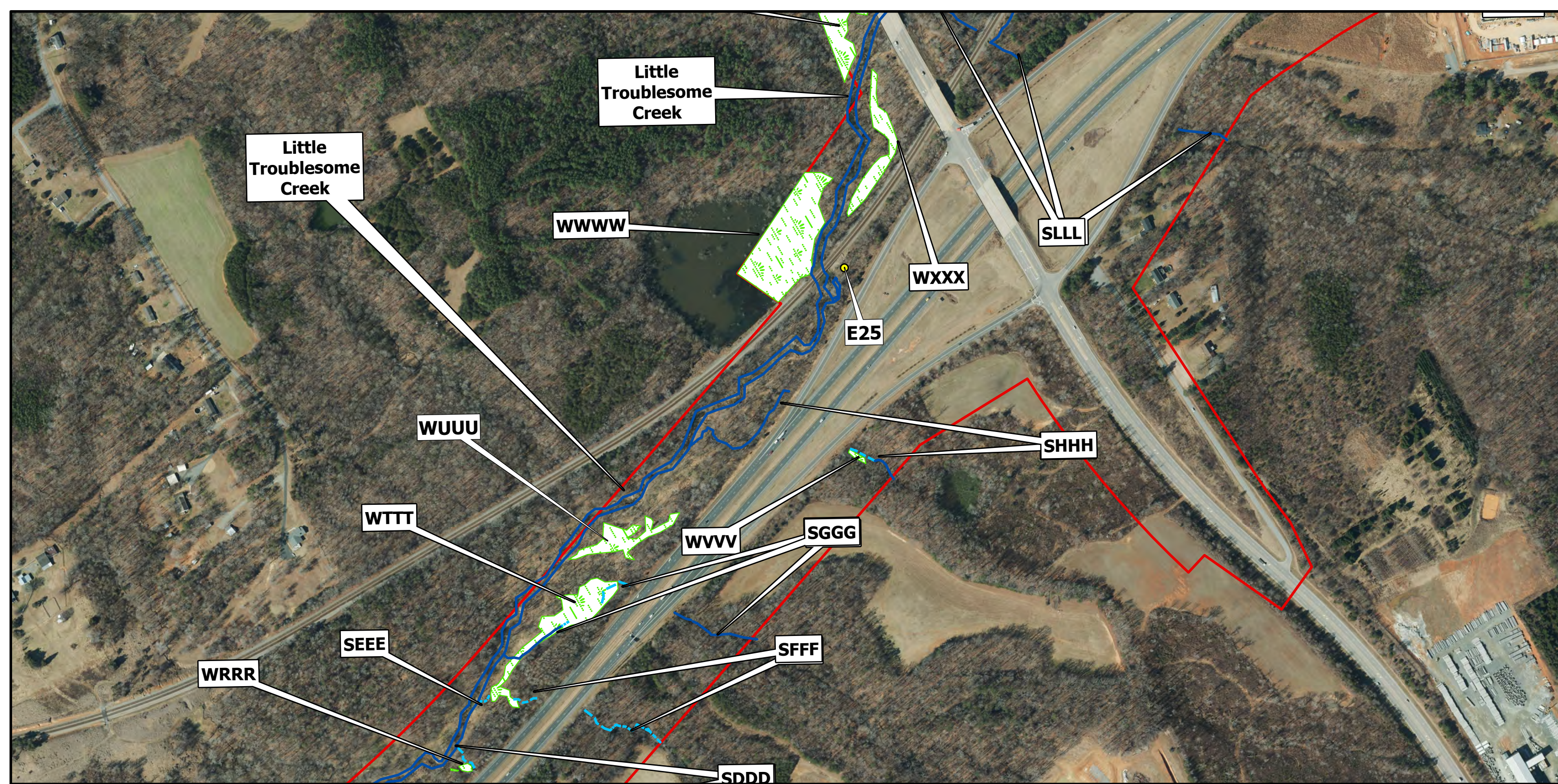
Prepared for:  




**Water Resources Map  
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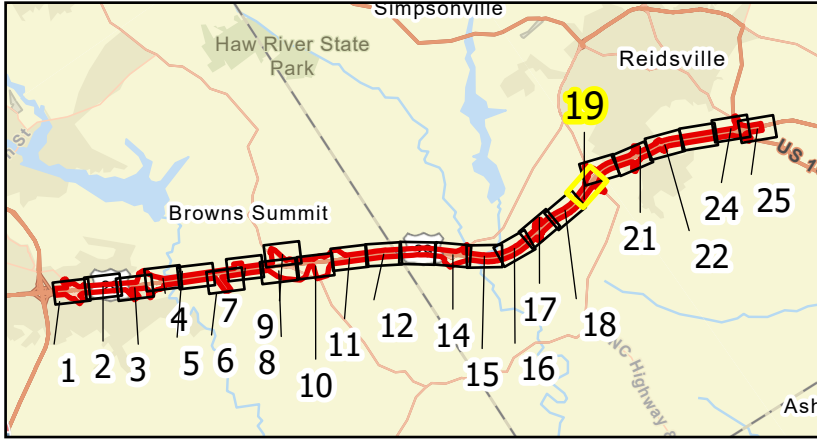
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▨ Wetland  
▭ Pond  
● Ephemeral

0      300      600  
 Feet

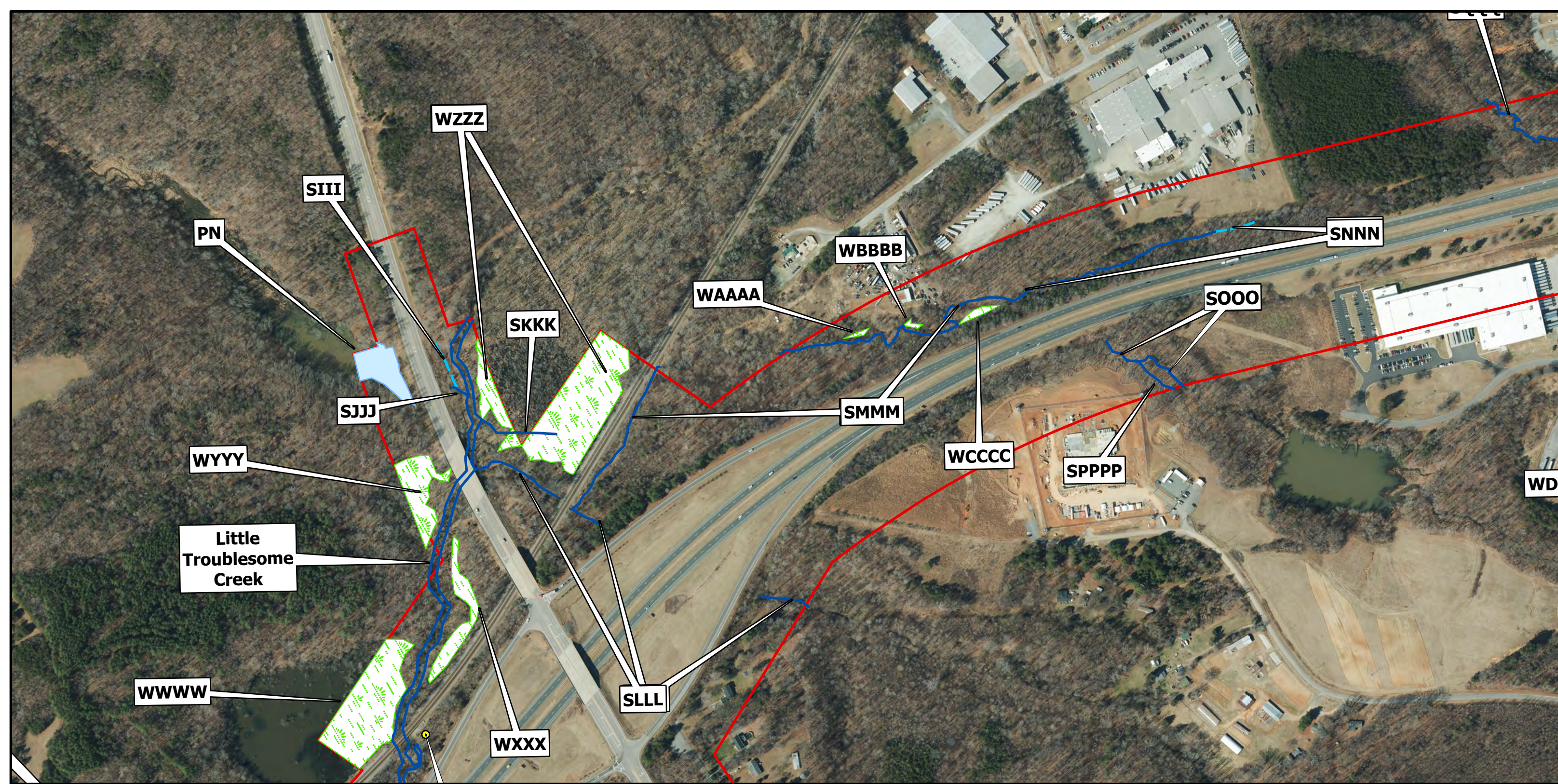
Prepared by:  
 Dewberry

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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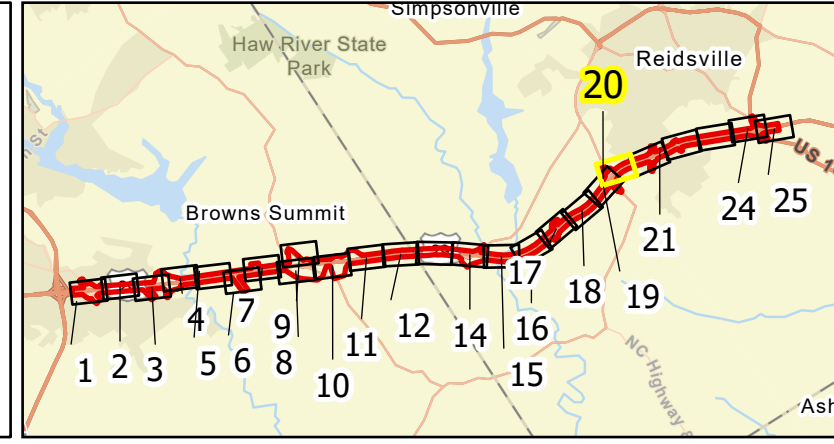
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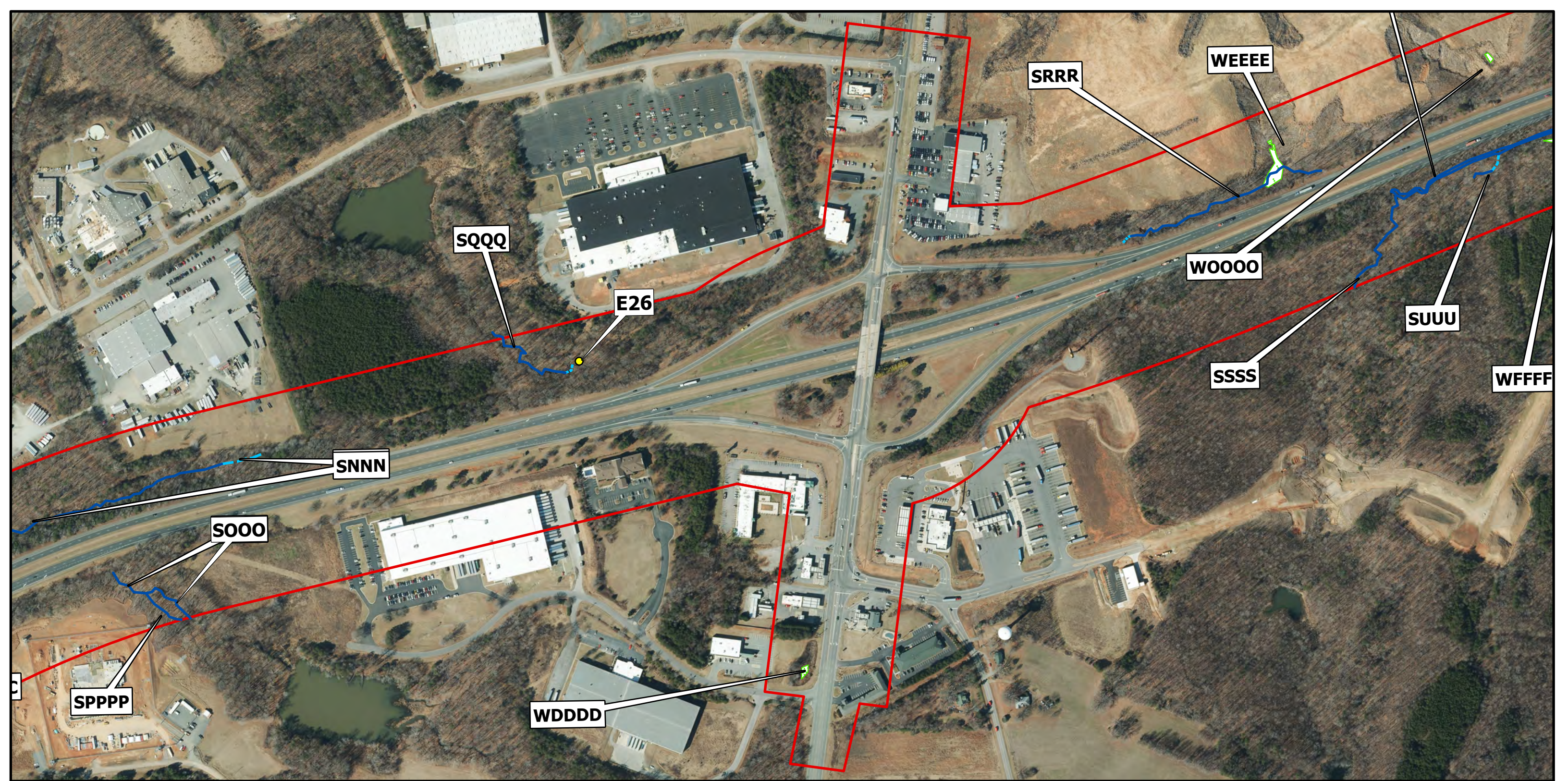
Prepared by:  
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## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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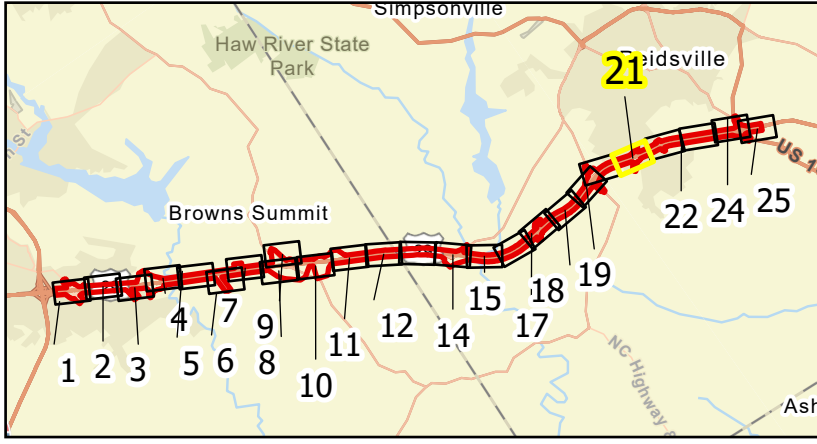
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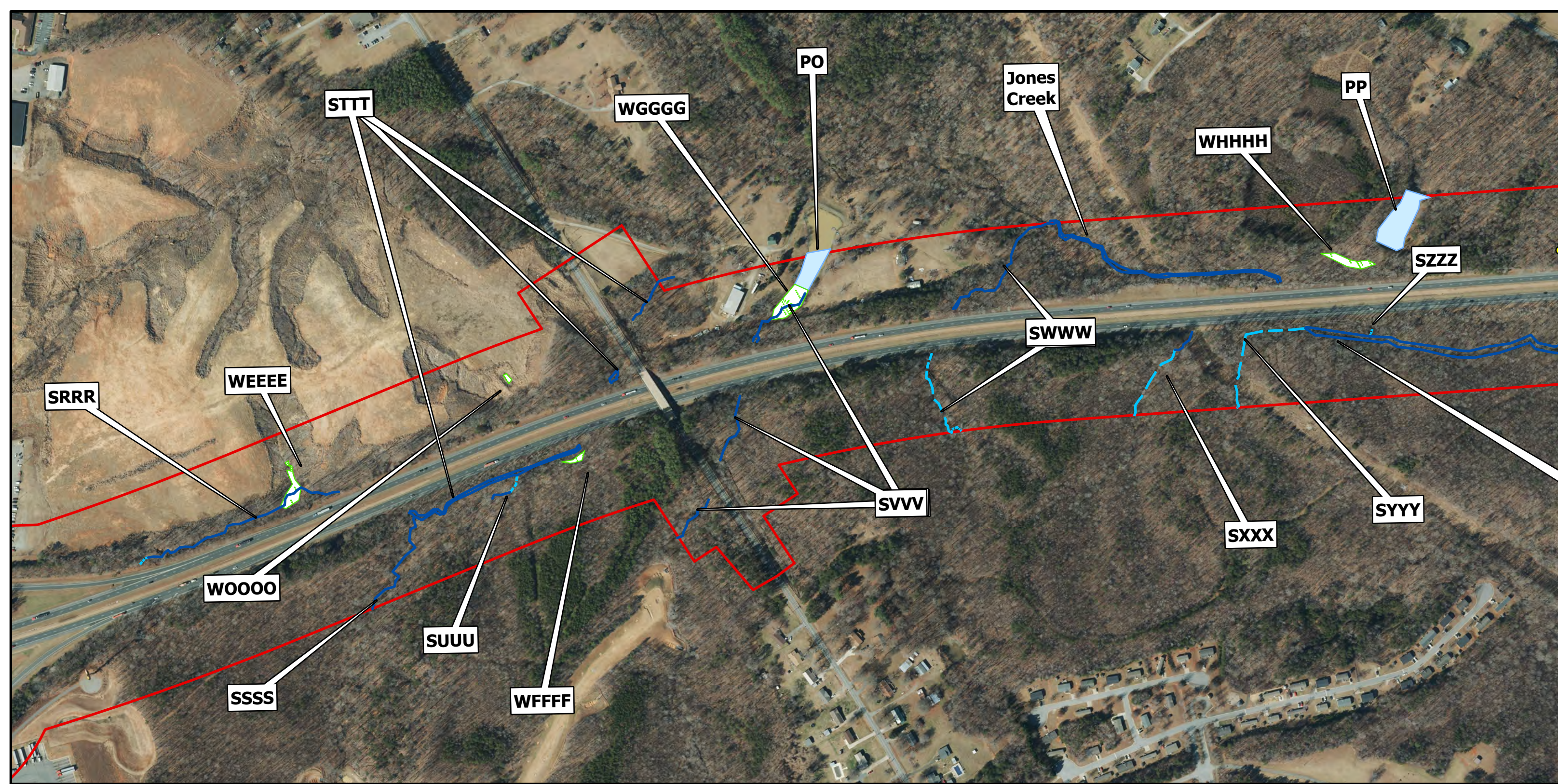
Prepared by:  
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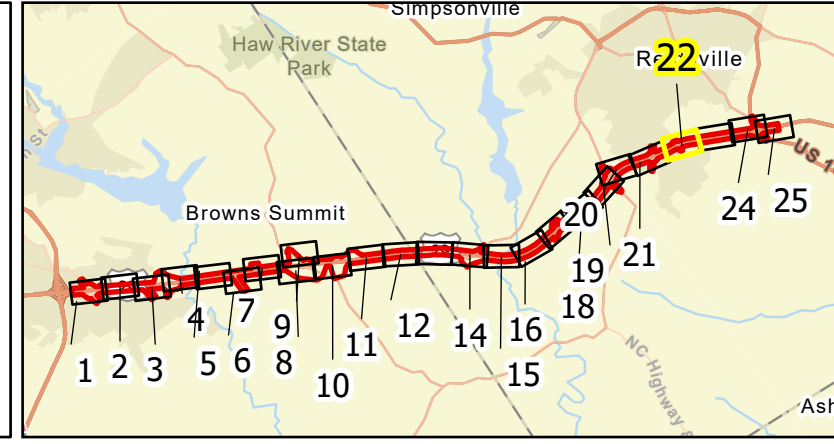
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0      300      600  
 Feet

Prepared by:  
**Dewberry**

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



WBS #: 48394.1.1

Figure: 4

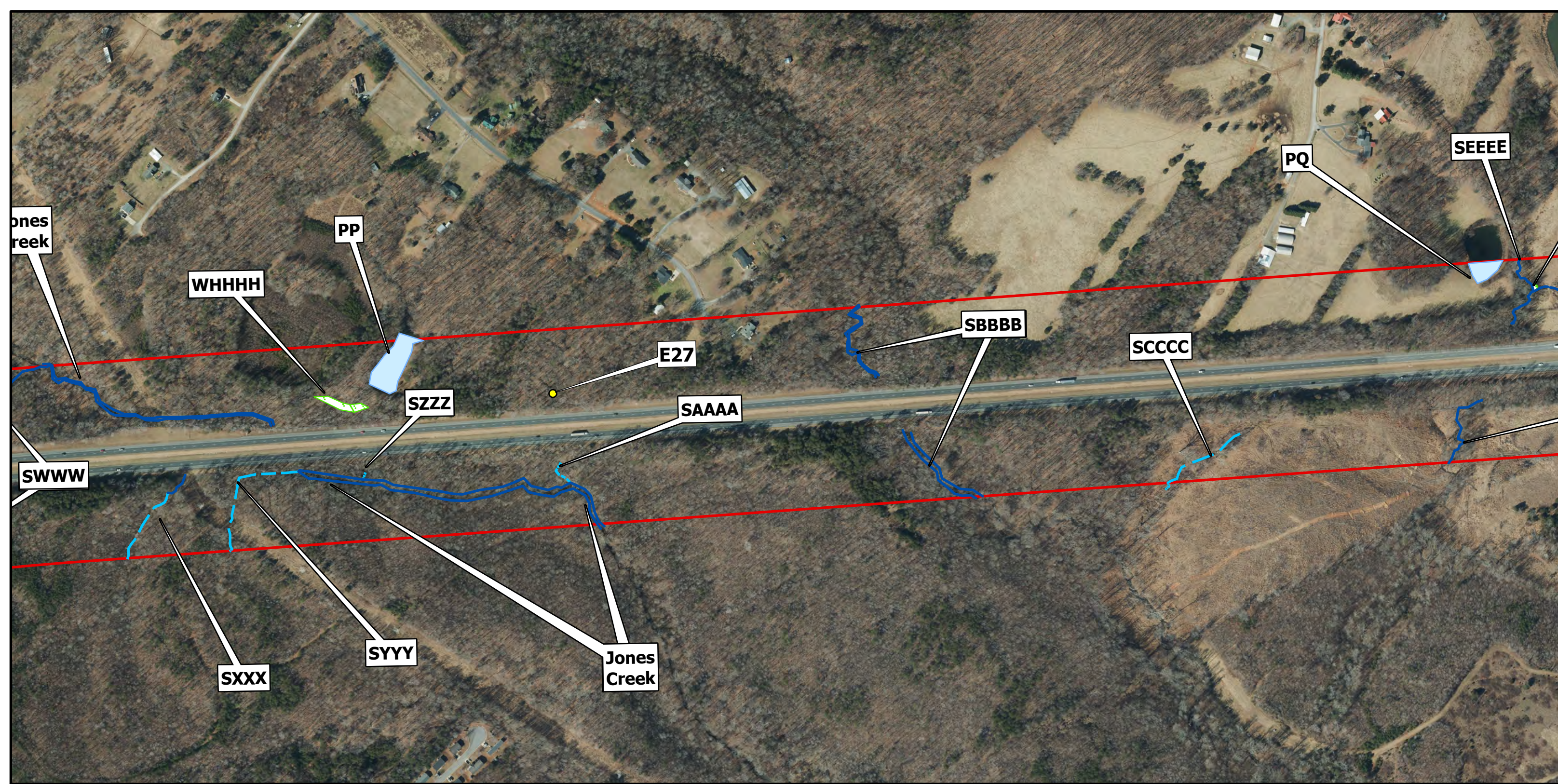
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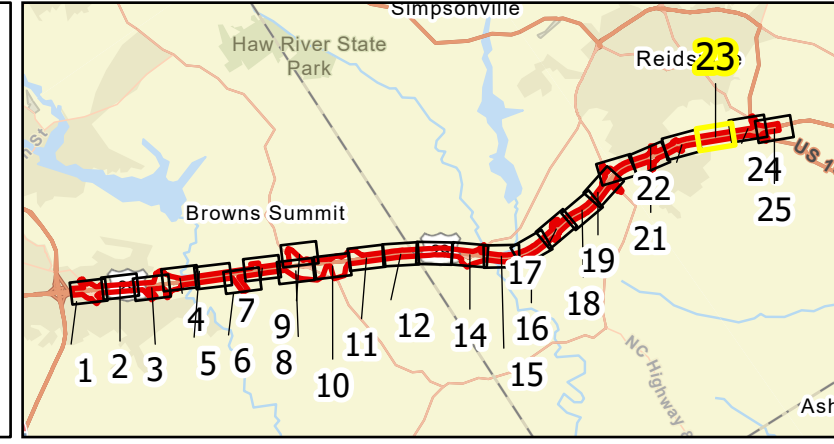
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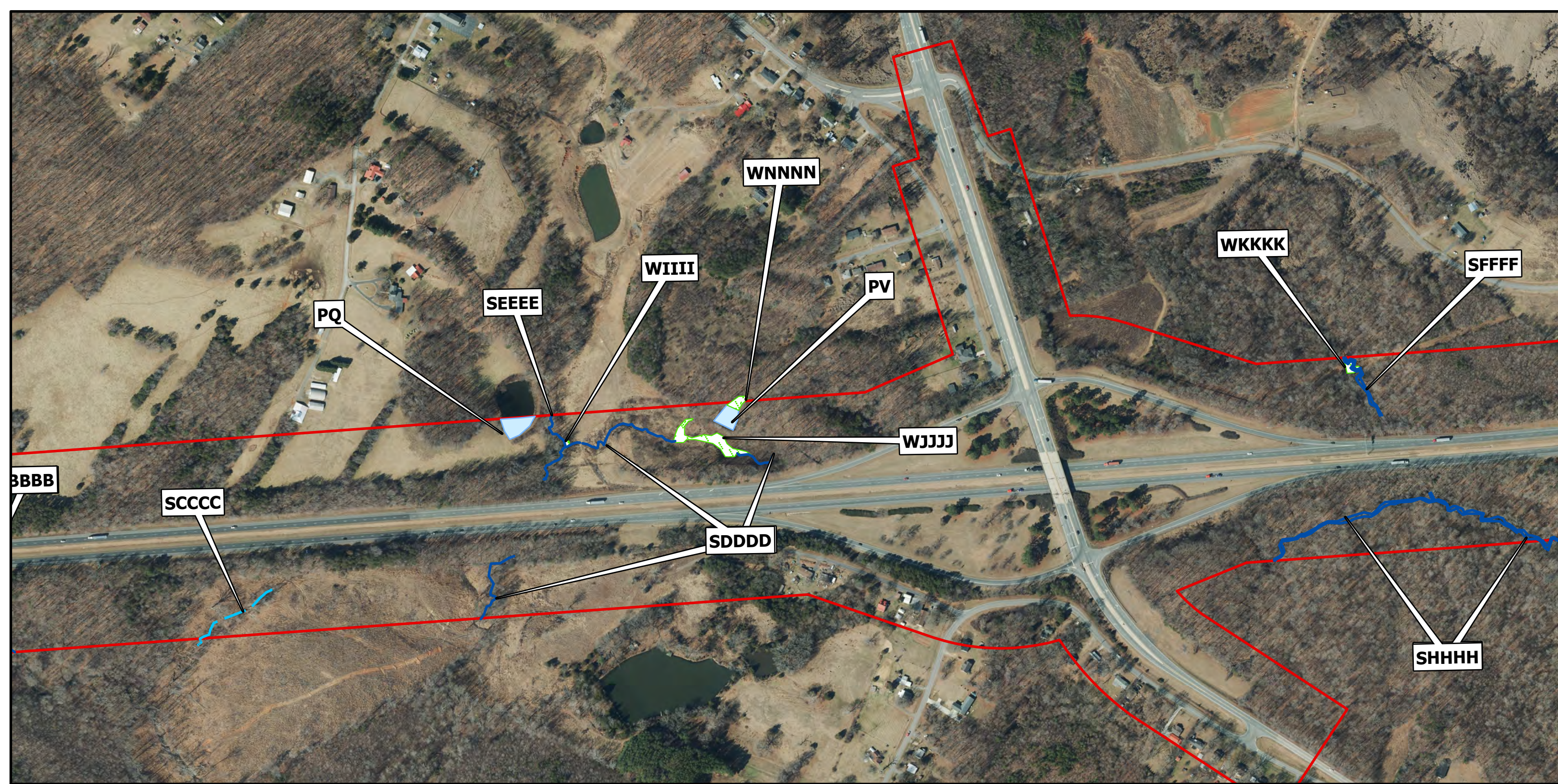
Prepared by:  
**Dewberry**

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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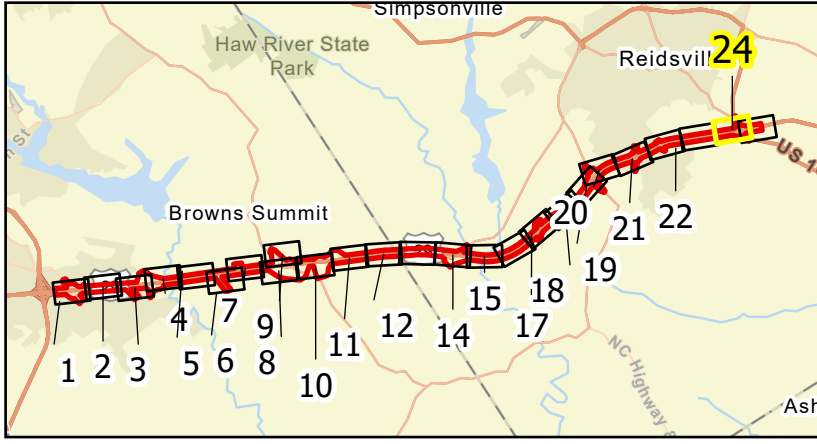
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 Feet

Prepared by:  
**Dewberry**

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



WBS #: 48394.1.1

Figure: 4

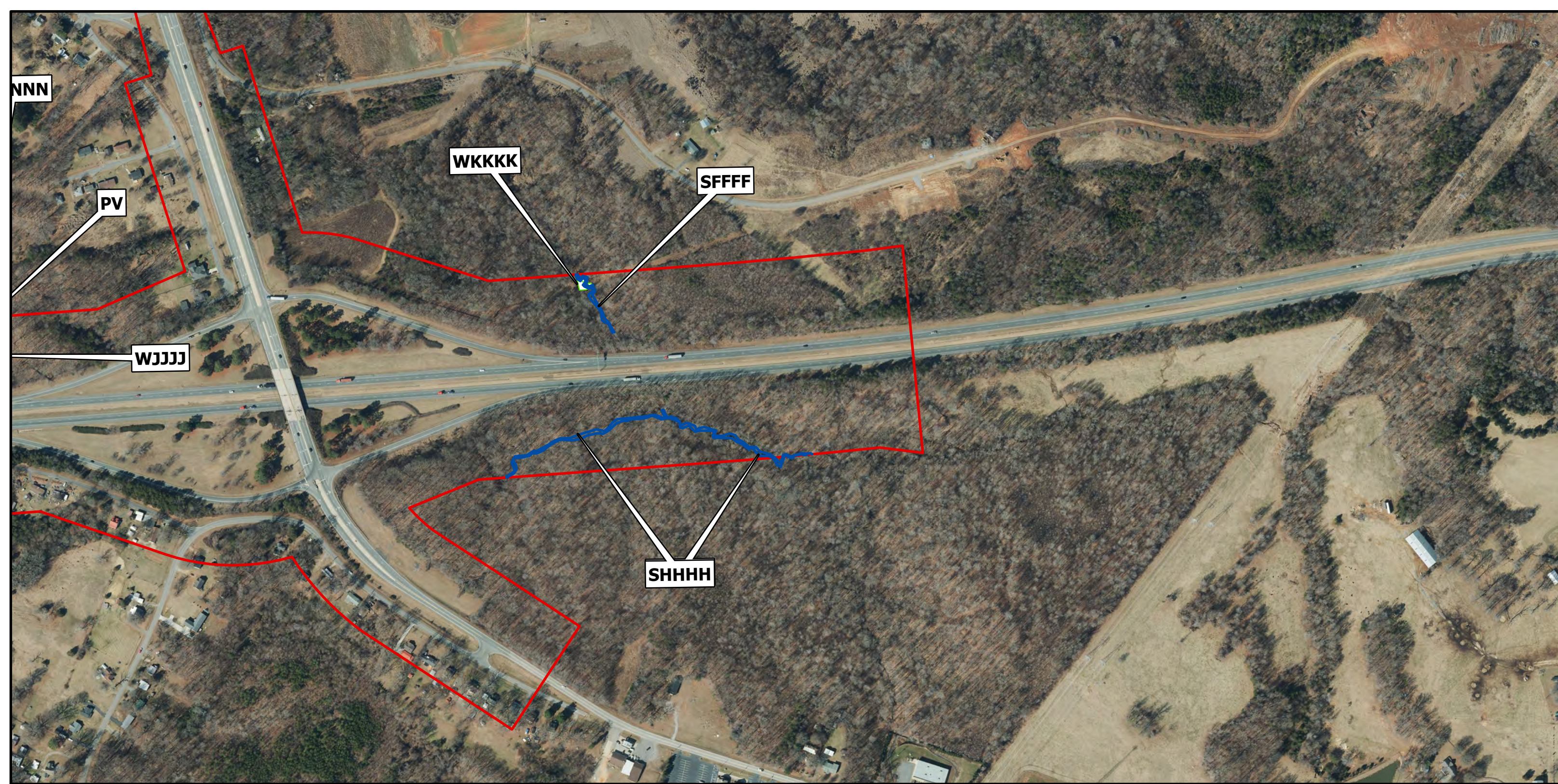
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Date: 7/14/2025

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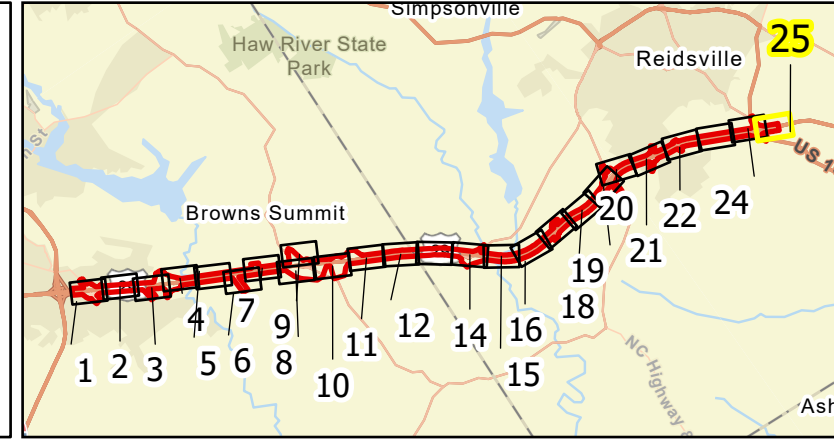
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0      300      600  
 Feet

Prepared by:  
**Dewberry**

Prepared for:

## Water Resources Map R-5889: US-29 (Future I-785) Upgrade Corridor to Interstate Standards Guilford/Rockingham Counties, NC



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Date: 7/14/2025
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# Appendix B

PROJECT NUMBER: R-5889

WBS ELEMENT #: 48394.1.1

COUNTY: Guilford

DIVISION: 7



**PRELIMINARY HYDRAULIC RECOMMENDATIONS FOR MAJOR CROSSINGS**

DATE: 6/5/2026

DESIGN FIRM: Dewberry

DESIGNED BY: AJW

REVIEWED BY: AHT

SITE NUMBER	ALTERNATIVE ID (2)	ROUTE	STATION	LAT	LONG	STREAM/ WETLAND ID	STREAM NAME	FEMA STUDY TYPE	DRAINAGE AREA (Mi^2)	EXISTING STRUCTURE	MINIMUM RECOMMENDED STRUCTURE	Notes
										Number, Size, Structure Type	Number, Size, Structure Type	
1	N/A	SR14	27+24.46	36.25783	-79.65187	16-5	Candy Creek	Limited Detail Study	2.94	N/A	3@ 8' x 11' RCBC	
2	N/A	L	88+72.48	36.17209	-79.71427	16-11-10-(2)	Reedy Fork Tributary 9	Limited Detail Study	3.04	3@ 7'x8' RCBC	Retain; No roadway widening at location	No site data filled out at this time due to no proposed impacts at this time
3	N/A	L	127+28.00	36.1815	-79.7084	16-11-(9)	Reedy Fork	Detailed Study	109	2 Bridges, Both: 1@72', 1@67', 1@72' RC Deck on Girders	Retain; No roadway widening at location	No site data filled out at this time due to no proposed impacts at this time

**NOTES:**

(1) Major Crossings - conveyance greater than 30 square feet or more.

(2) Complete Table for all Roadway projects (Not necessary for Structure replacement projects)

(3) Provided in planning document

(4) Mark N/A for Site No. if no major drainage structures.

PROJECT NUMBER: R-5889	<b>NCDOT - HPR</b>	DATE: 6/5/2026
WBS ELEMENT #: 48394.1.1	<b>SITE 1</b>	DESIGN FIRM: Dewberry
COUNTY: Rockingham		DESIGNED BY: AJW
DIVISION: 7		REVIEWED BY: AHT

**EXISTING STRUCTURE**

Str. #:  Latitude:  Longitude:  [Google Maps](#) Stream:

Structure Type:  Yr Built:  Skew:  River Basin:

Exist. Str. Info:

Bed to Crown (ft):  Clear Roadway (ft):  Water Depth (ft):  OAL (ft):

Existing Structure Notes:

ADT:  Year ADT:  Scour Code(Item 113):  Prior Survey:

Flooding Info 1:

Flooding Info 2:

**CHANNEL INFORMATION**

U/S Channel Condition:

D/S Channel Condition:

**UPSTREAM FEATURE**

Str. #:  Latitude:  Longitude:  [Google Maps](#) Stream:

U/S Feature:  Yr Built:  Skew:  Route:

U/S Feature Info:

Bed to Crown (ft):  Clear Roadway (ft):  Water Depth (ft):

**DOWNSTREAM FEATURE**

Str. #:  Latitude:  Longitude:  [Google Maps](#) Stream:

D/S Feature:  Yr Built:  Skew:  Route:

D/S Feature Info:

Bed to Crown (ft):  Clear Roadway (ft):  Water Depth (ft):

**HYDROLOGY**

Drainage Area:  Drainage Area Source:  Future % Impervious:

Discharge Method:  USGS Hydrologic Region:  Stream Gage # (if applicable):

Future Land Use/Development:

Proposed LOS:  Existing LOS:  Level of Service (LOS) where roadway is open and not overtopping.

Q Design (cfs):  Design Yr.:  Q100 (cfs):  QBFE (cfs):

Has a different LOS from standard LOS been considered and why?

PROJECT NUMBER: R-5889

NCDOT - HPR

DATE: 6/5/2026

WBS ELEMENT #: 48394.1.1

DESIGN FIRM: Dewberry

COUNTY: Rockingham

DESIGNED BY: AJW

DIVISION: 7

REVIEWED BY: AHT



SITE 1

FEMA

Type of FIS: Limited Detailed Study

Date of FIS: 7/3/2007

Regulatory Floodway Width: 192 (Noted in FIS)

River Station: 3000

RDWY OT @ Q100?: NO

Panel #: 8901

Panel Date: 7/3/2007

Damage Potential?: Low

Could proposed structure significantly increase damages?: Yes

\*Buildings in Floodplain?: No

Explanation of Increased Damages: New Location

List Buildings in Flood Plain w/ Location & Floor Elev.:

N/A

CLOMR/SFC Estimate: SFC Type A

HIGHWAY & BRIDGE/CULVERT RELATED EVALUATIONS

Are there any outside features that might affect stage, discharge or frequency?:

N/A

ONSITE DETOUR INFORMATION

Structure Type: N/A

Detour Str. Info: N/A

DESIGN CONCERNS

While FEMA BFE does not overtop, the 100-YR flow based on the USGS SIR 2014-5030 equations does overtop the roadway.

PRELIMINARY STRUCTURE ESTIMATE [OFFICE ESTIMATE]

Structure Type: RCBC

Disclaimer - Please note if extending/widening/retaining

Proposed Structure and any grade requirements

3@ 8' X 11' RC BOX CULVERT



SITE 1 - PHOTOS



Downstream Structure - Existing 2@ 8'x8' RCBC under Candy Creek Rd.



**SITE 1 - PHOTOS**



*Existing conditions at Candy Creek downstream from Site 1*

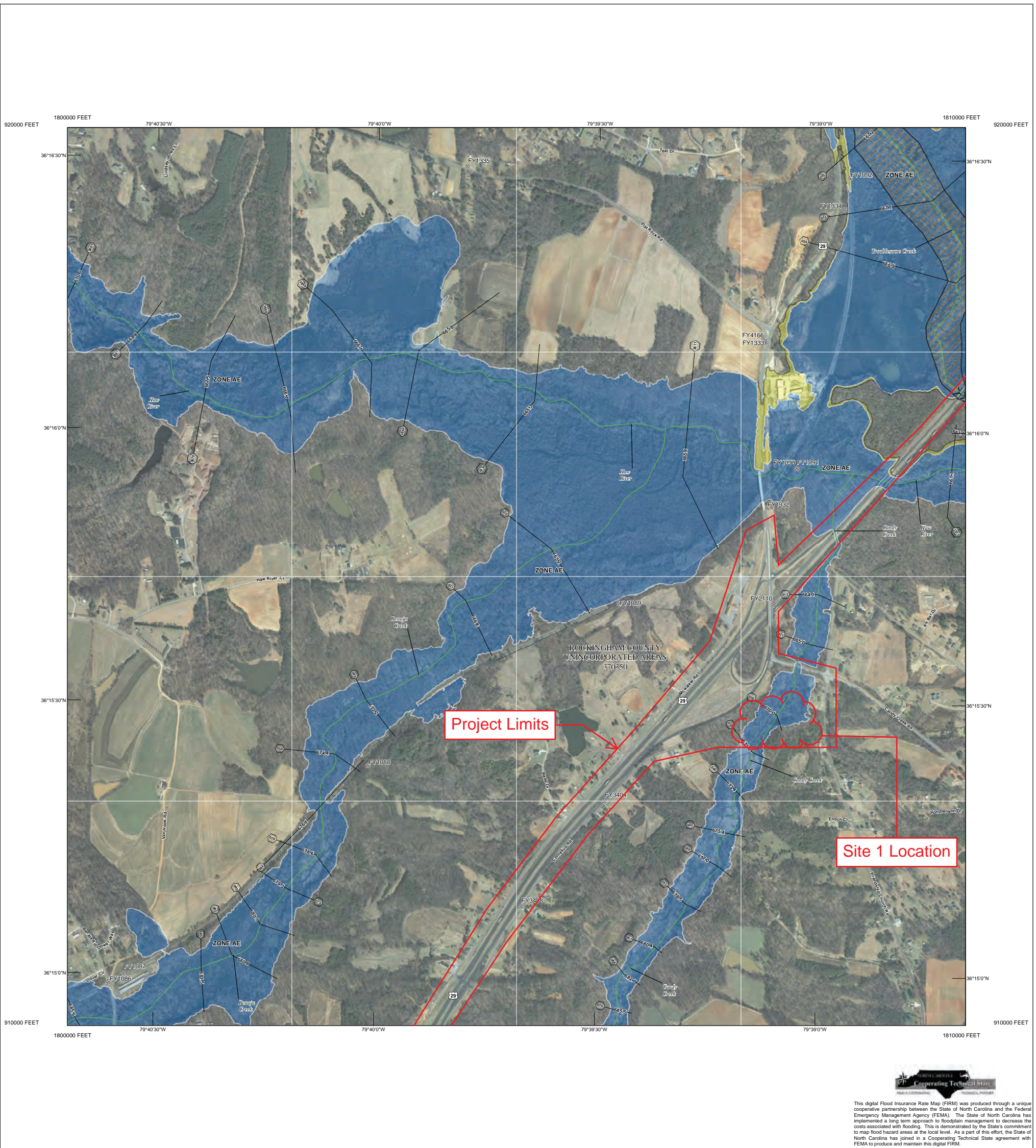


*Downstream Structure - Existing 2@ 8'x8' RCBC under Candy Creek Rd.*



*Existing conditions at conjunction of Candy Creek and unnamed tributary immediately upstream of existing structure downstream from Site 1*





This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map flood hazard areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

**FLOOD HAZARD INFORMATION**

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://FRIS.NC.GOV/FRIS](http://FRIS.NC.GOV/FRIS)

- SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee See Notes Zone X
- OTHER AREAS**
  - Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
- GENERAL STRUCTURES**
  - Channel, Culvert, or Storm Sewer Accredited or Provisionally Accredited Levee, Dike, or Floodwall
  - Non-accredited Levee, Dike, or Floodwall
  - North Carolina Geodetic Survey bench mark
  - National Geodetic Survey bench mark
  - Contractor Est. NCFMP Survey bench mark
  - Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
  - Coastal Transect
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
  - Limit of Study
  - Jurisdiction Boundary

**NOTES TO USERS**

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2527) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. An accompanying Flood Insurance Study Report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at <http://www.ncfloodmaps.com> or contact the FEMA Map Service Center.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for that jurisdiction.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the North Carolina Floodplain Mapping Program (NCFMP). The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

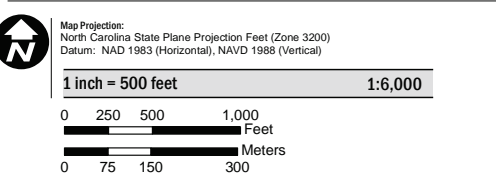
**ACCREDITED LEEVE NOTES TO USERS:** If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <http://www.fema.gov/business/nfip/index.shtm>.

**PROVISIONALLY ACCREDITED LEEVE NOTES TO USERS:** If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <http://www.fema.gov/business/nfip/index.shtm>.

**LIMIT OF MODERATE WAVE ACTION NOTES TO USERS:** For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LIMWA). The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA for areas where VE Zones are not identified) will be similar, but less severe than those in the VE Zone.

- Limit of Moderate Wave Action (LIMWA)
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE**
- This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see [http://www.nc.gov/habitatconservation/coastal\\_barrier.html](http://www.nc.gov/habitatconservation/coastal_barrier.html), the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.
- CBRS Area
- Otherwise Protected Area

**SCALE**



**PANEL LOCATOR**

6880	7001 7011	7020	7040	7061 7071 7081 7091	8000	8020	8041
	7000 7010			7060 7070 7080 7090			8040
6888	7909 7919	7928	7948	7969 7979 7989 7999	8908	8928	8948
	7908 7918			7968 7978 7988 7998			
6886	7907 7917	7927 7937	7946	7966	7986	8907 8917	8946
	7906 7916	7926 7936				8906 8916	
6884	7905 7915				7985 7995	8905 8915	8945
	7904 7914	7924	7944	7964	7984 7994	8904 8914	8944
6882		7943 7953	7963 7973	7983 7993	8903 8913		8943
	7902	7922	7942 7952	7962 7972	7982 7992	8902 8912	8942
6880	7901 7911	7921 7931	7941 7951	7961 7971	7981 7991	8901 8911	8941
				7970 7980	7990 8000	8910 8920	8930

GUILFORD COUNTY

**FEMA**

**National Flood Insurance Program**

**NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM**

**NATIONAL FLOOD INSURANCE PROGRAM**

**FLOOD INSURANCE RATE MAP**

**NORTH CAROLINA**

PANEL 8901

Panel Contains:

COMMUNITY: ROCKINGHAM COUNTY    CID: 370350    PANEL SUFFIX: 8901 J

MAP NUMBER: 3710890100J

MAP REVISED: 07/03/07