



# Feasibility Study FS-1504A

## Upgrade US 64 to Interstate

Wake, Franklin, Nash, Edgecombe and Martin Counties

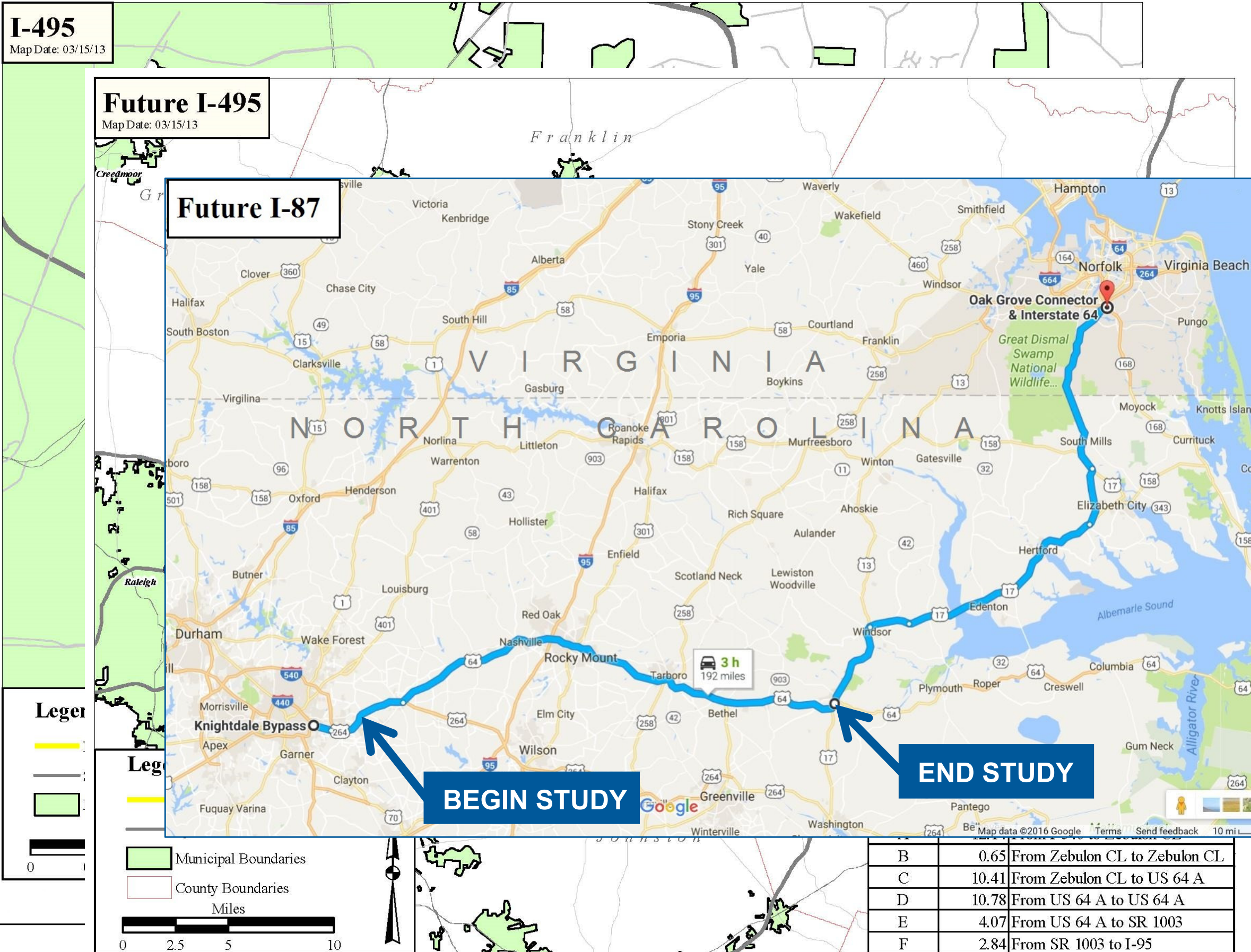
### Design Review Meeting (Phase 2)

August 3, 2016

Lynnise Hawes, PE and Brian Peeler, PE, PTOE



# NCDOT/FHWA: I-495/Future I-495/Future I-87



Terry R. Gill  
State Highway  
North Carolina  
1536 Mail Stop  
Raleigh, NC

Dear Mr. Gill:

Thank you for  
System as I-  
I-440 to I-54

Our North Carolina  
Department of  
Transportation  
confirmed the  
Association of  
Standards and  
U.S. 64 from  
Based on our  
these segments

Enclosed are  
I-95. Please

cc: Marty Vitale

# FAST Act Bill

H. R. 22—110

## One Hundred Fourteenth Congress of the United States of America

AT THE FIRST SESSION

*Begun and held at the City of Washington on Tuesday,  
the six*

To authorize funds

*Be it enacted  
the United States*  
SECTION 1. SHOR

(a) SHORT T  
ica's Surface Tra

To authorize funds for Federal-aid highways, highway safety programs, and transit programs, and for other purposes.

(a) SHORT TITLE.—This Act may be cited as the “Fixing America’s Surface Transportation Act” or the “FAST Act”.

### SEC. 1416. HIGH PRIORITY CORRIDORS ON NATIONAL HIGHWAY SYSTEM.

(a) IDENTIFICATION OF HIGH PRIORITY CORRIDORS ON NATIONAL HIGHWAY SYSTEM.—Section 1105(c) of the Intermodal Surface Transportation Efficiency Act of 1991 (105 Stat. 2032; 112 Stat. 190; 119 Stat. 1213) is amended—

(1) by striking paragraph (13) and inserting the following:  
“(13) Raleigh-Norfolk Corridor from Raleigh, North Carolina, through Rocky Mount, Williamston, and Elizabeth City, North Carolina, to Norfolk, Virginia.”;

### SEC. 1415. ADMINISTRATIVE PROVISIONS TO ENCOURAGE POLLINATOR HABITAT AND FORAGE ON TRANSPORTATION RIGHTS-OF-WAY.

(a) IN GENERAL.—Section 319 of title 23, United States Code, is amended—

(1) in subsection (a) by inserting “(including the enhancement of habitat and forage for pollinators)” before “adjacent”; and

(2) by adding at the end the following:

“(c) ENCOURAGEMENT OF POLLINATOR HABITAT AND FORAGE DEVELOPMENT AND PROTECTION ON TRANSPORTATION RIGHTS-OF-WAY.—In carrying out any program administered by the Secretary under this title, the Secretary shall, in conjunction with willing States, as appropriate—

“(1) encourage integrated vegetation management practices on roadsides and other transportation rights-of-way, including reduced mowing; and

“(2) encourage the development of habitat and forage for

l honey bees  
s, including  
ve as migra-  
nigrations of

RY WAY STA-  
POLLINATORS,  
nited States  
forage, and  
native polli-  
nent”.

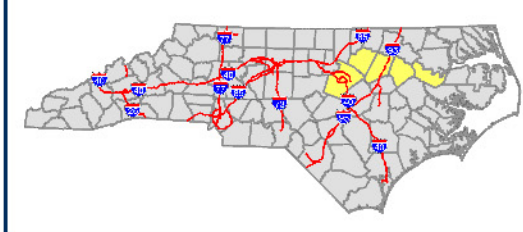
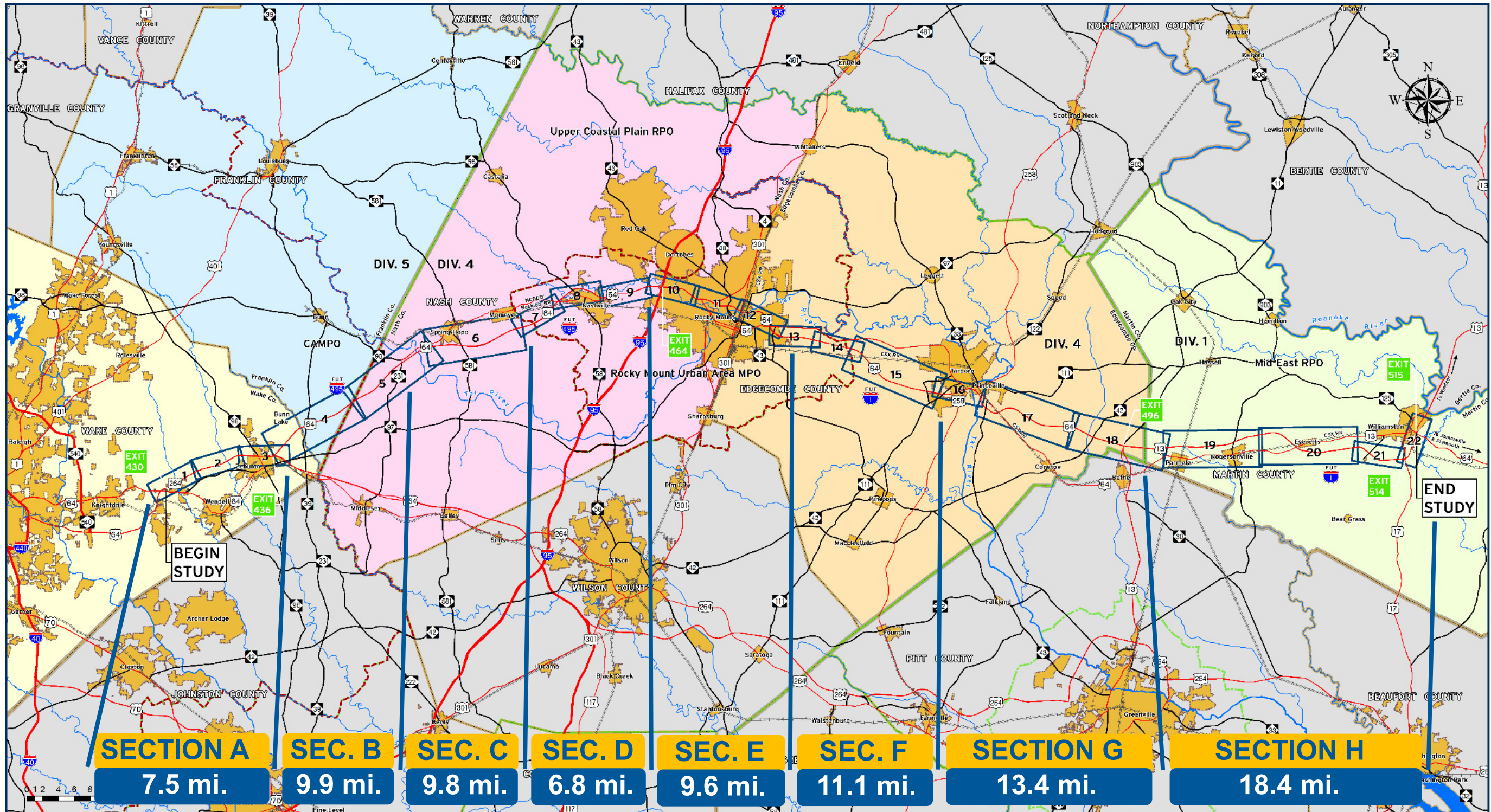
AL HIGHWAY

ON NATIONAL  
odal Surface  
2; 112 Stat.

he following:  
North Caro-  
izabeth City,

d;  
at the end

# Project Location Map



**LEGEND**

- Interstate (Red line)
- NC Route (Black line)
- US Route (Red line)
- Railroad (Black line with cross-ticks)
- Major Rivers (Blue line)
- County Boundaries (Thin grey line)
- NCDOT Division Boundaries (Thick grey line)
- Municipal Boundaries (Yellow shaded area)
- MPO Boundaries (Dashed red line)
- RPO Boundaries (Dashed green line)

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rkk.com

Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A**

**DESIGN REVIEW**

**Upgrade US 64 to Interstate**  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# *Feasibility Study Level*

## *Purpose, Need, Criteria for Improvements*

### **Need**

- Improve connectivity: Raleigh / northeast NC  $\leftrightarrow$  Hampton Roads / southeast VA
- Enhance safety, travel times
- Promote economic opportunities (business, agriculture, shipping, tourism)

### **Purpose**

- Upgrade US 64 to Interstate Standard from Wendell to Williamston
- US bill: “Fixing America’s Surface Transportation Act, or the “FAST Act”, 2015. “High priority corridor” designation. Bipartisan, NC-VA sponsorship.

### **Criteria for Improvements**

- AASHTO Green Book, AASHTO Interstate Guide, and NCDOT Design Manual, Standards
- Typical Section
- Bridges
- Widening Alternatives (Wendell to Zebulon)
- Adjacent MPO and NCDOT projects

# *Criteria for Improvements (cont.)*

## **Criteria for replacing bridges:**

- Older than 1970
- Poor sufficiency rating
- “Functionally Obsolete” – i.e. doesn’t meet standards, doesn’t have enough width, doesn’t have enough vertical clearance
- Design Changes

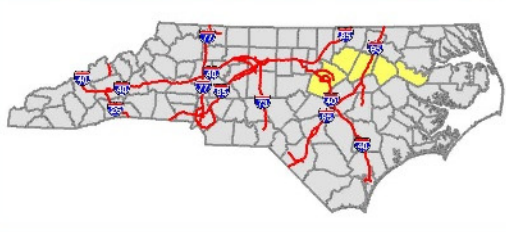
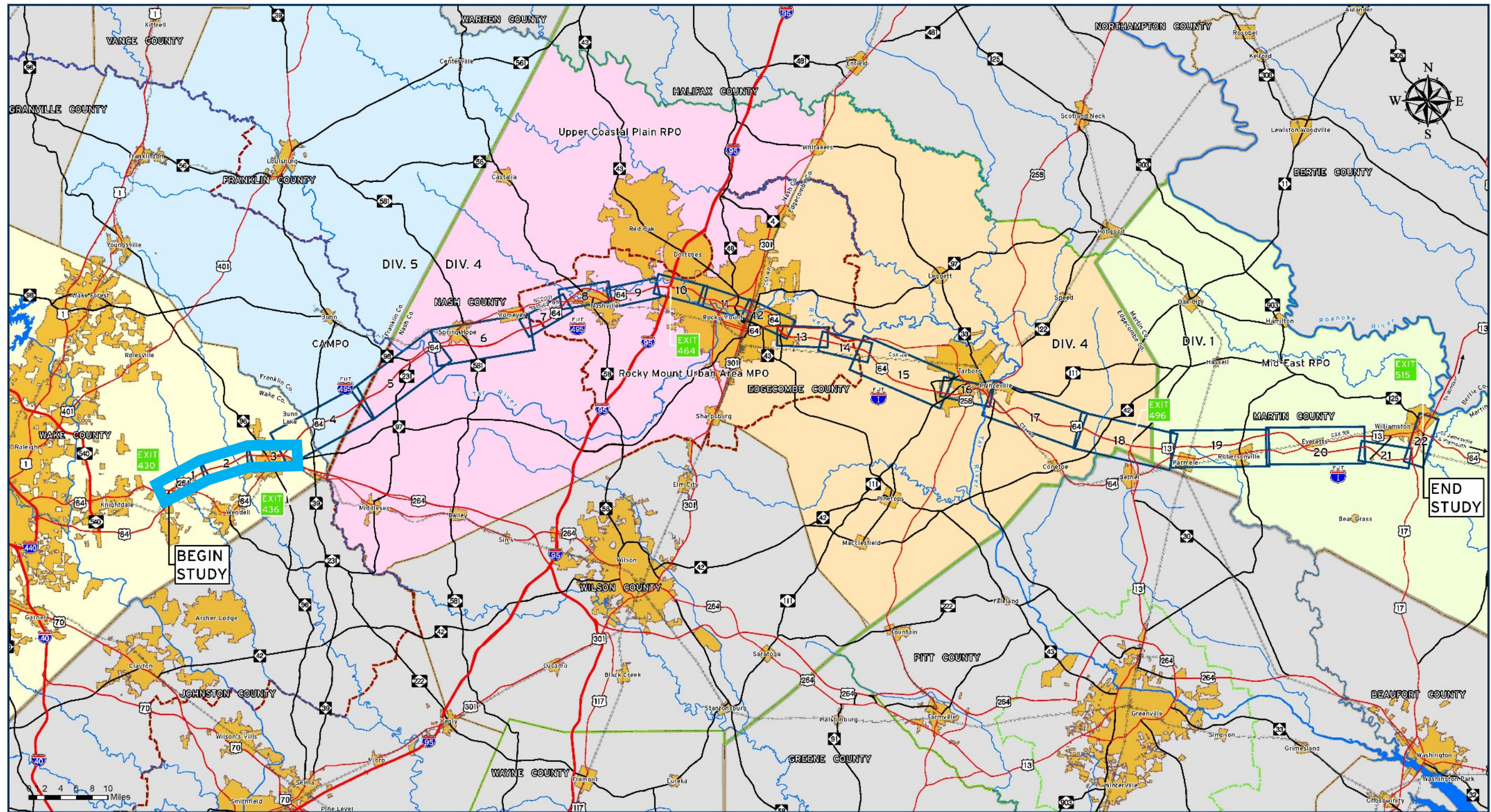
## **Mainline Typical Section:**

- # of travel lanes (4, 6 or 8): Capacity/LOS, Cost, Life Expect.
- Paved shoulders (4’, 10’, 12’)
- Median protection (G/R, Cable, Barrier)
- $\geq 46'$  Median / Concrete Barrier Section
- $\geq$  posted 70-mph Vertical, Horizontal/Superelevation (as-builts)
- Plus: 30-mph Loop Ramps (R=230’)
- Plus: Interchange Ramp widths (16’)

## **Study Alternatives**

- Sections B-H (east of Zebulon to Williamston) (Exist. 4 Lane)
- Section A (Wendell to Zebulon)  
(4 Lane plus Aux., 6 Lane, 8 Lane)

# Study Corridor – Wendell to Zebulon



LEGEND			
	Interstate		NCDOT Division Boundaries
	NC Route		MPO Boundaries
	US Route		Municipal Boundaries
	Railroad		RPO Boundaries
	Major Rivers		
	County Boundaries		

PREPARED FOR:



FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
[www.ncdot.gov](http://www.ncdot.gov)

PREPARED BY:



RALEIGH, NORTH CAROLINA  
[www.rk&k.com](http://www.rk&k.com)

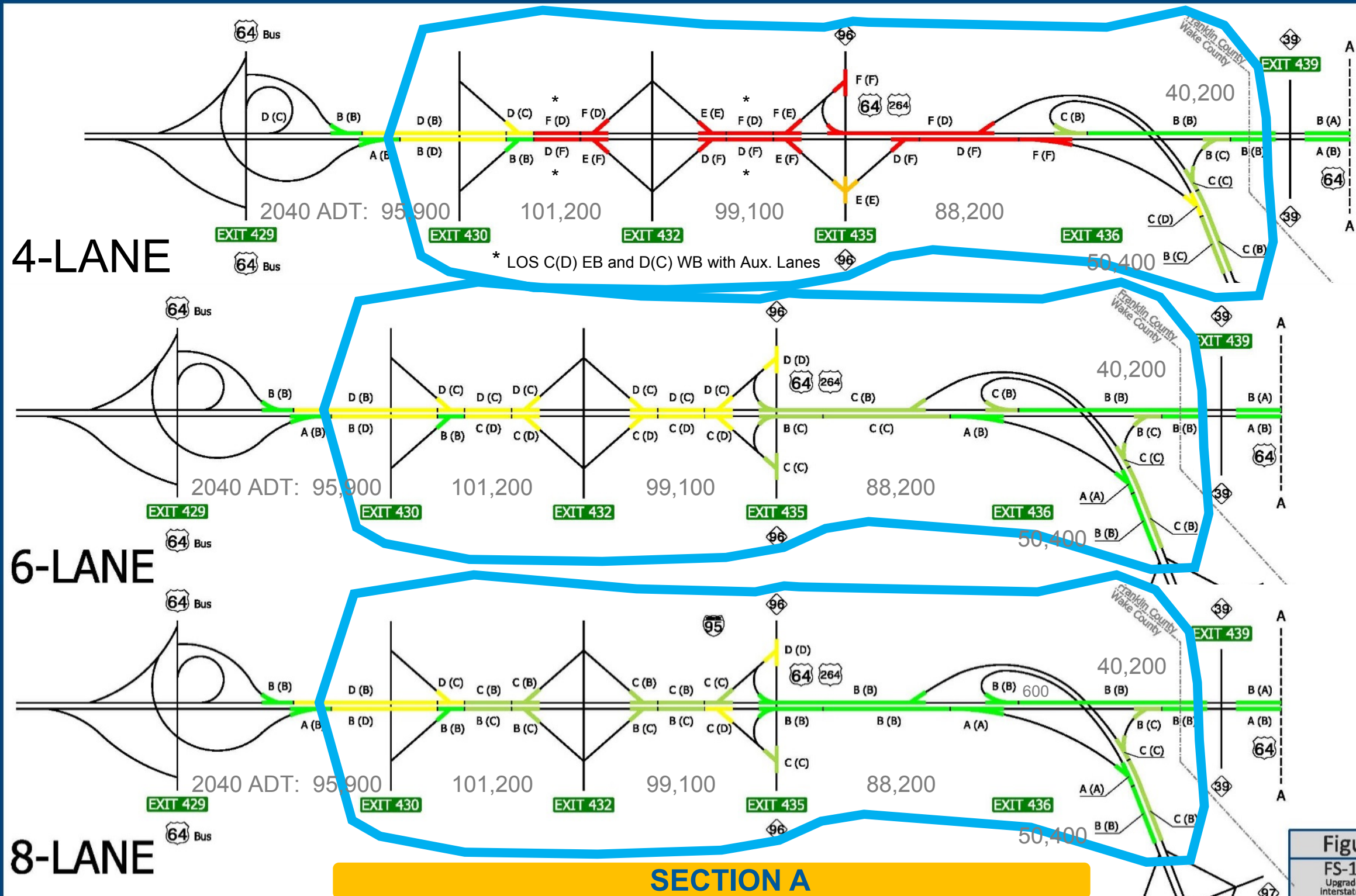
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A**

**SCOPING MEETING**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# Study Corridor (cont.) – Wendell to Zebulon



4-LANE

6-LANE

8-LANE

2040 BUILD

Level of Service (LOS)  
AM (PM)

Green	LOS A, B
Light Green	LOS C
Yellow	LOS D
Orange	LOS E
Red	LOS F

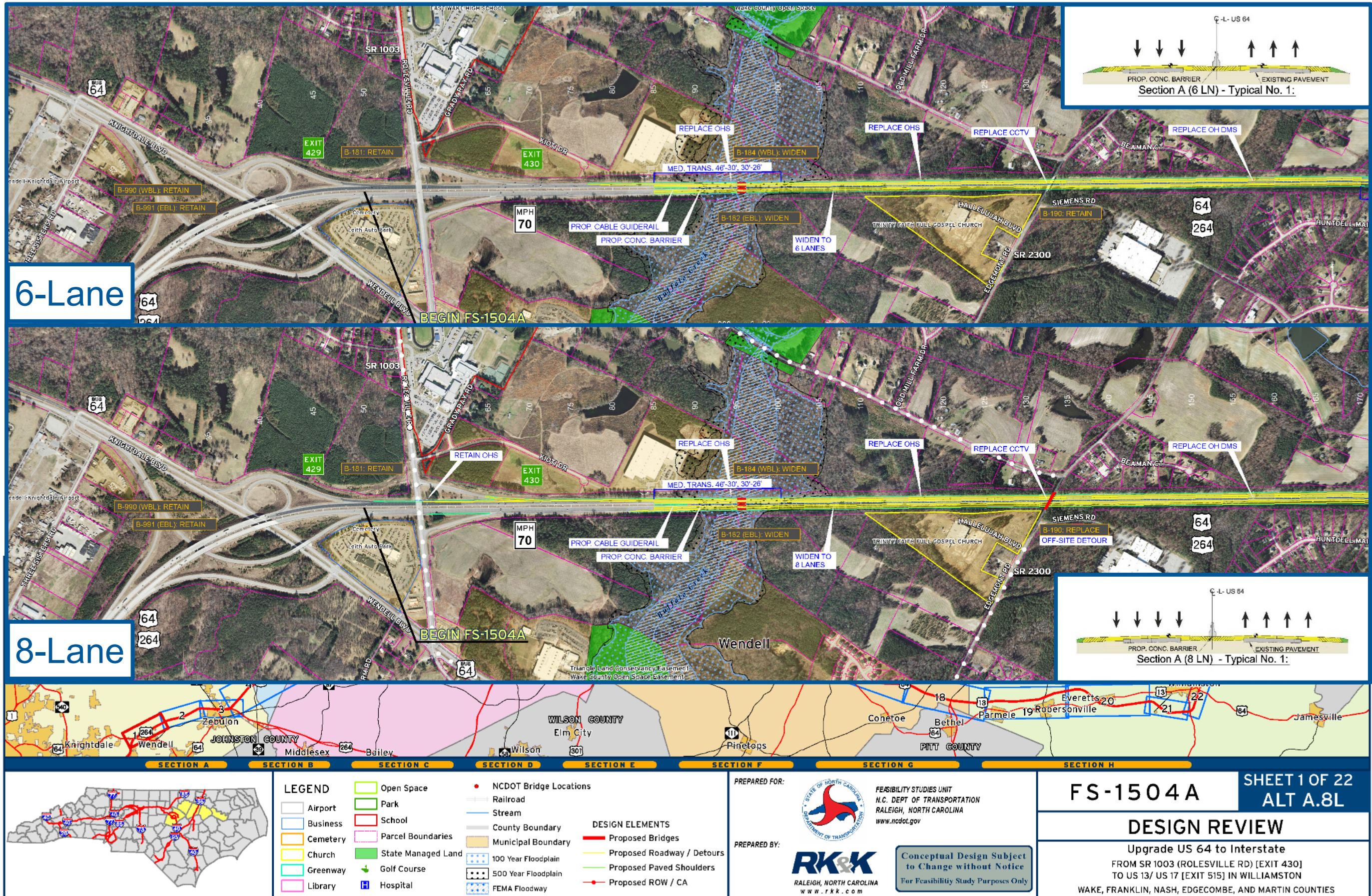
**Figure 3**  
**FS-1504A**  
 Upgrade US 64 to interstate standards  
**Level of Service**  
 WAKE, FRANKLIN, NASH,  
 EDGEcombe, MARTIN COUNTIES

PREPARED FOR:  
 N.C. DEPT. of TRANSPORTATION  
 RALEIGH, NORTH CAROLINA  
 www.ncdot.org

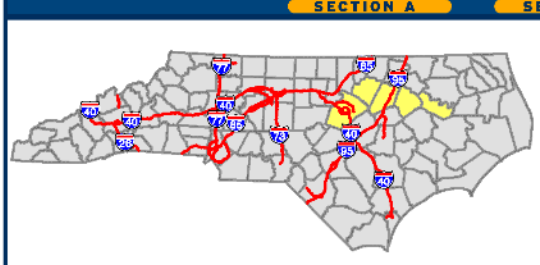
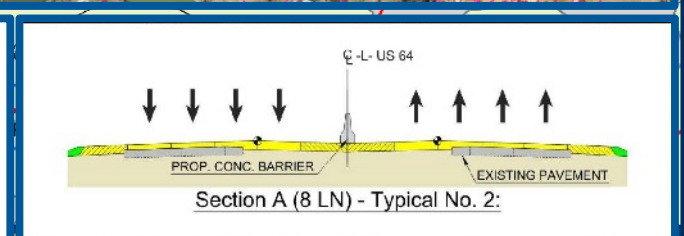
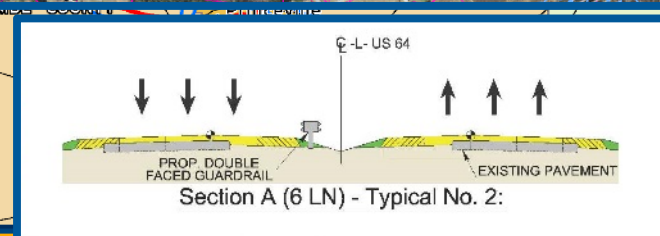
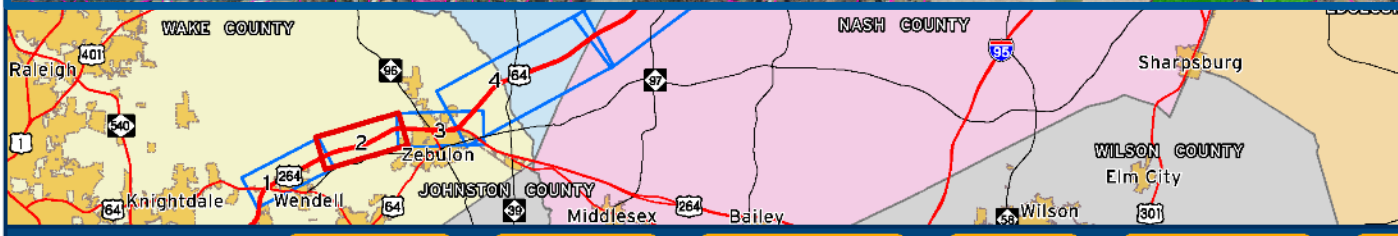
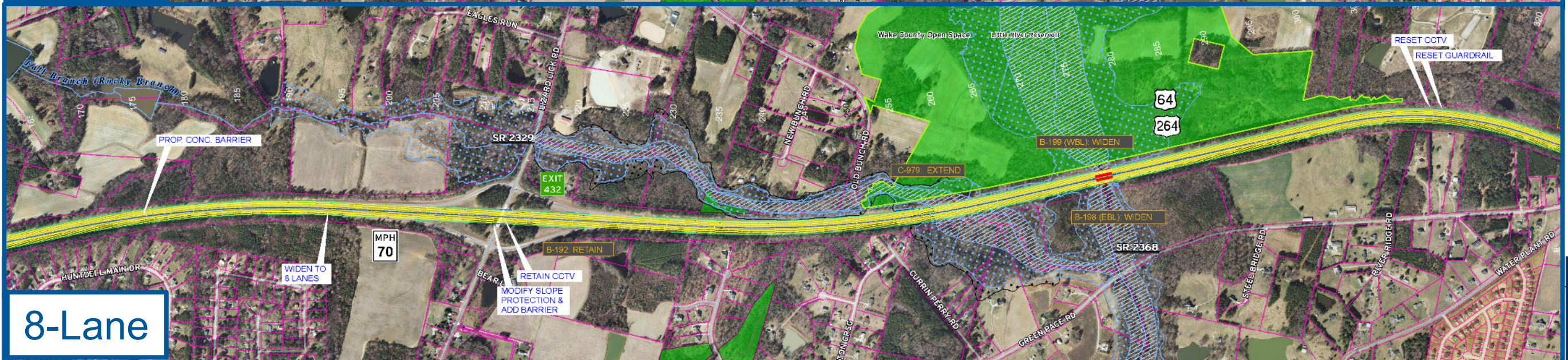
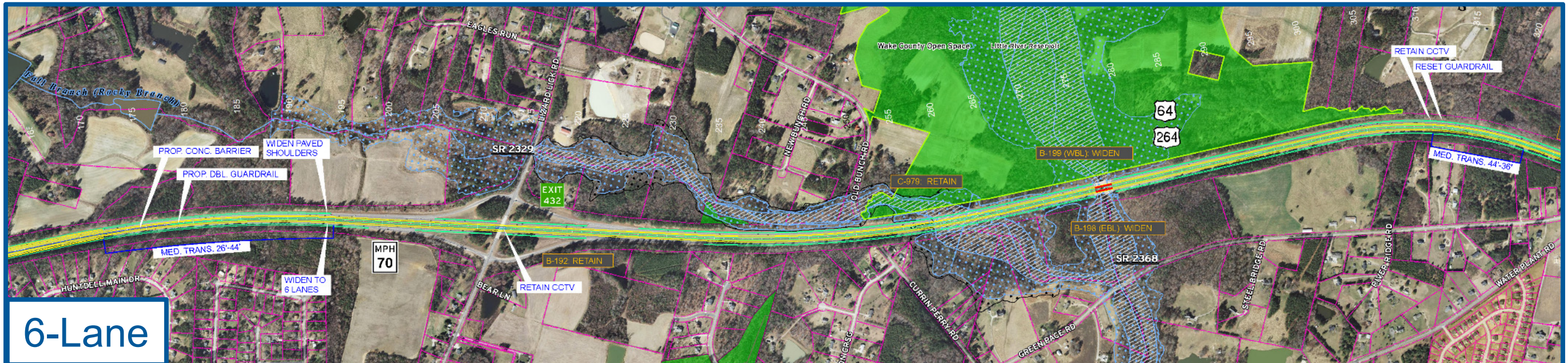
PREPARED BY:  
**RK&K**  
 RALEIGH, NORTH CAROLINA  
 www.rkandk.com



# Study Corridor (cont.) – Wendell to Zebulon



# Study Corridor (cont.) – Wendell to Zebulon



LEGEND		DESIGN ELEMENTS	
	Open Space		NCDOT Bridge Locations
	Park		Railroad
	School		Stream
	Parcel Boundaries		County Boundary
	Church		Municipal Boundary
	State Managed Land		100 Year Floodplain
	Golf Course		500 Year Floodplain
	Hospital		FEMA Floodway
			Proposed Bridges
			Proposed Roadway / Detours
			Proposed Paved Shoulders
			Proposed ROW / CA

PREPARED FOR: FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY: **RK&K**  
RALEIGH, NORTH CAROLINA  
www.rkandk.com

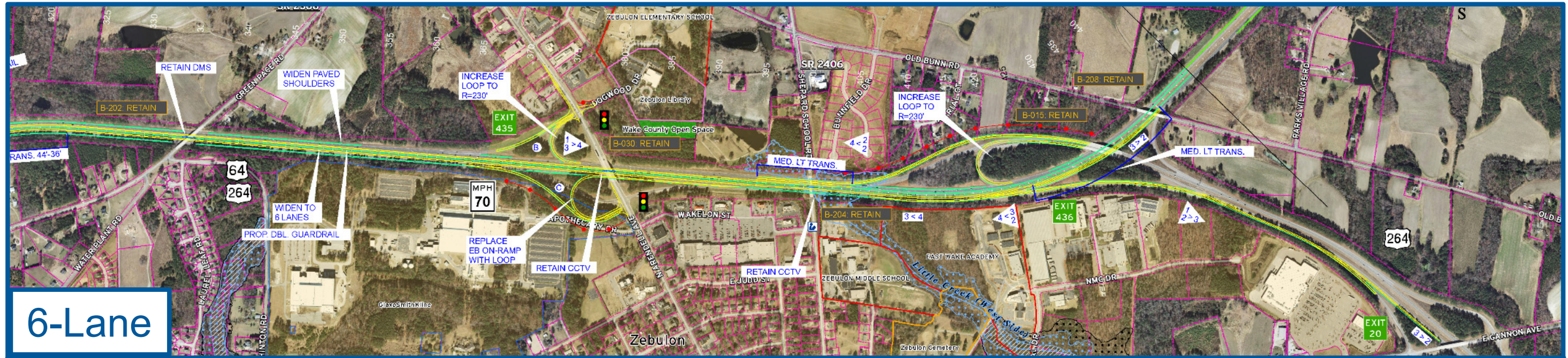
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A** SHEET 2 OF 22  
**ALT A.8L**

**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES

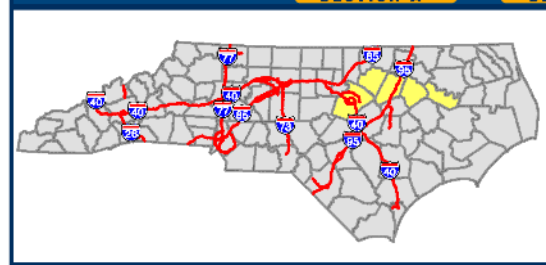
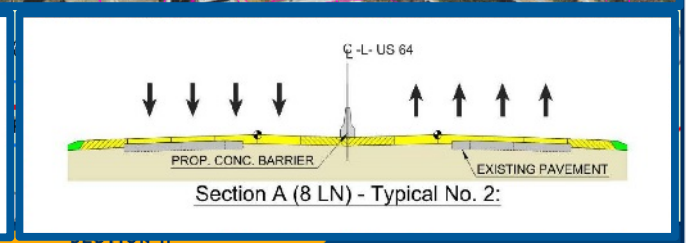
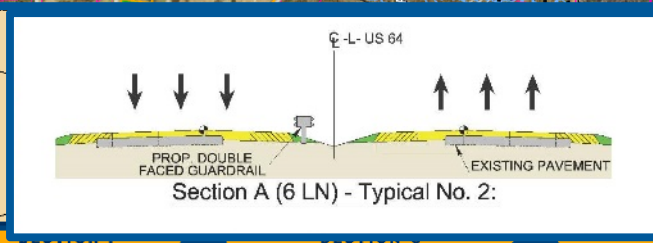
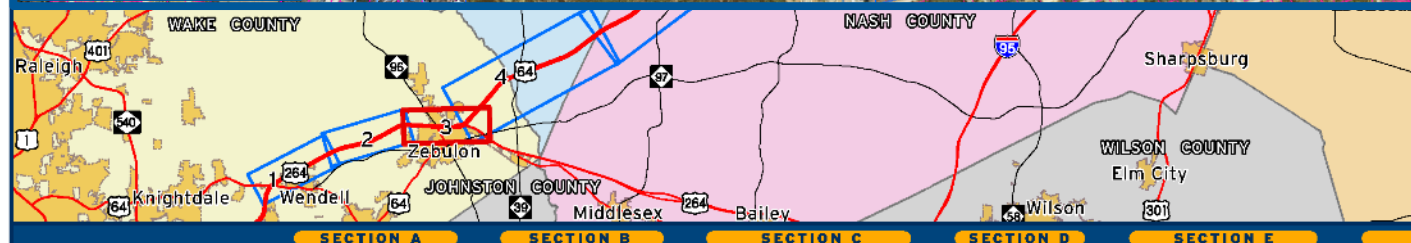
# Study Corridor (cont.) – Wendell to Zebulon



**6-Lane**



**8-Lane**



LEGEND		DESIGN ELEMENTS	
[Green outline]	Open Space	[Red circle]	NCDOT Bridge Locations
[Green outline]	Park	[Grey line]	Railroad
[Red outline]	School	[Blue line]	Stream
[Pink outline]	Parcel Boundaries	[Grey line]	County Boundary
[Yellow outline]	Church	[Orange outline]	Municipal Boundary
[Green outline]	State Managed Land	[Blue dashed]	100 Year Floodplain
[Green outline]	Golf Course	[Blue dashed]	500 Year Floodplain
[Blue outline]	Hospital	[Blue dashed]	FEMA Floodway
[Red line]	Proposed Bridges	[Yellow line]	Proposed Roadway / Detours
[Green line]	Proposed Paved Shoulders	[Red line]	Proposed ROW / CA

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rk-k.com

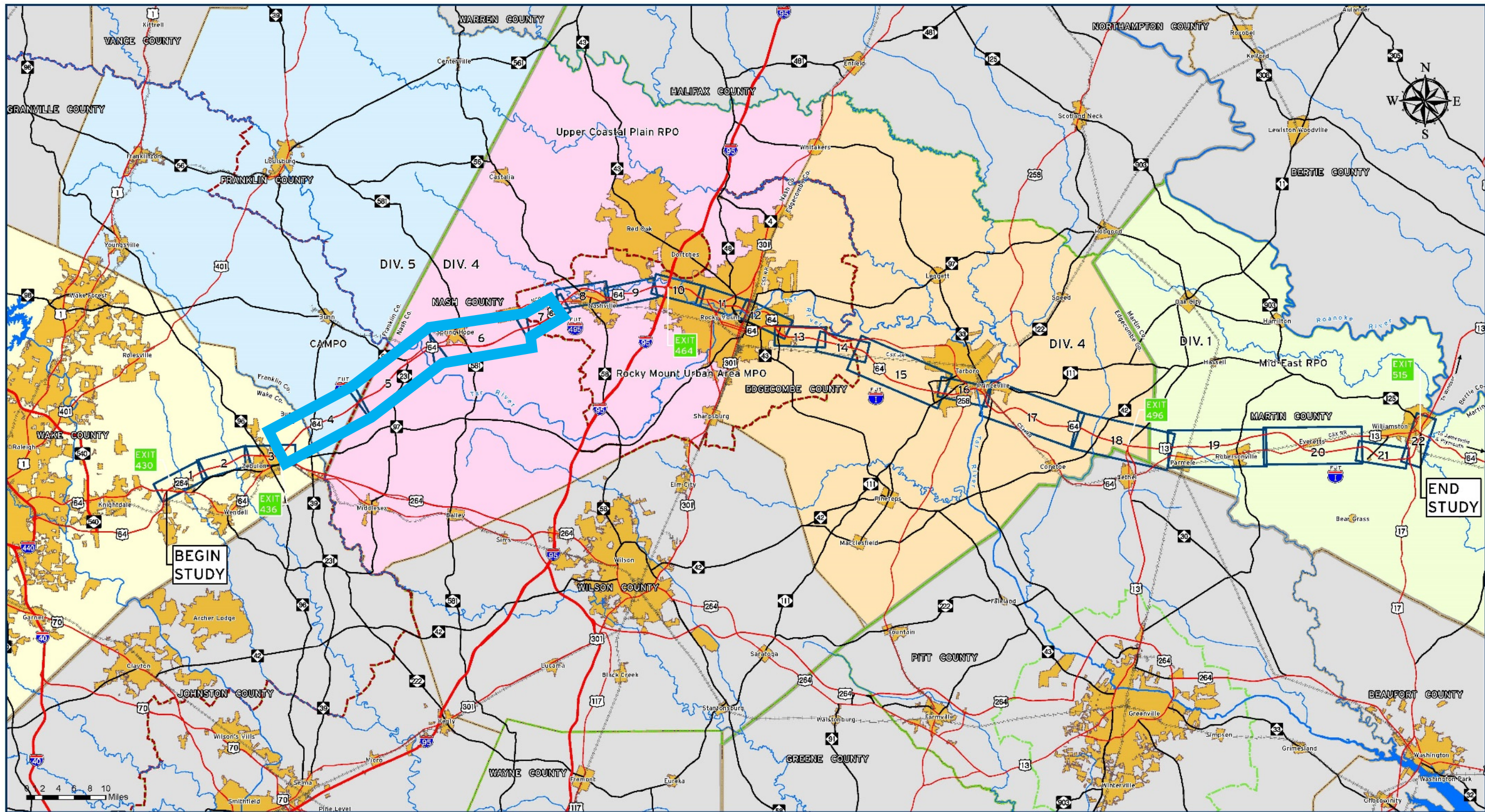
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A** SHEET 3 OF 22  
ALT A.8L

**DESIGN REVIEW**

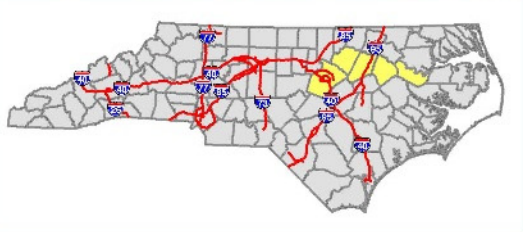
Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES

# Study Corridor – Bunn Lake, Spring Hope, Momeyer



END STUDY

BEGIN STUDY



LEGEND			
	Interstate		NCDOT Division Boundaries
	NC Route		Municipal Boundaries
	US Route		MPO Boundaries
	Railroad		RPO Boundaries
	Major Rivers		
	County Boundaries		

PREPARED FOR:



FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
[www.ncdot.gov](http://www.ncdot.gov)

PREPARED BY:



RALEIGH, NORTH CAROLINA  
[www.rk&k.com](http://www.rk&k.com)

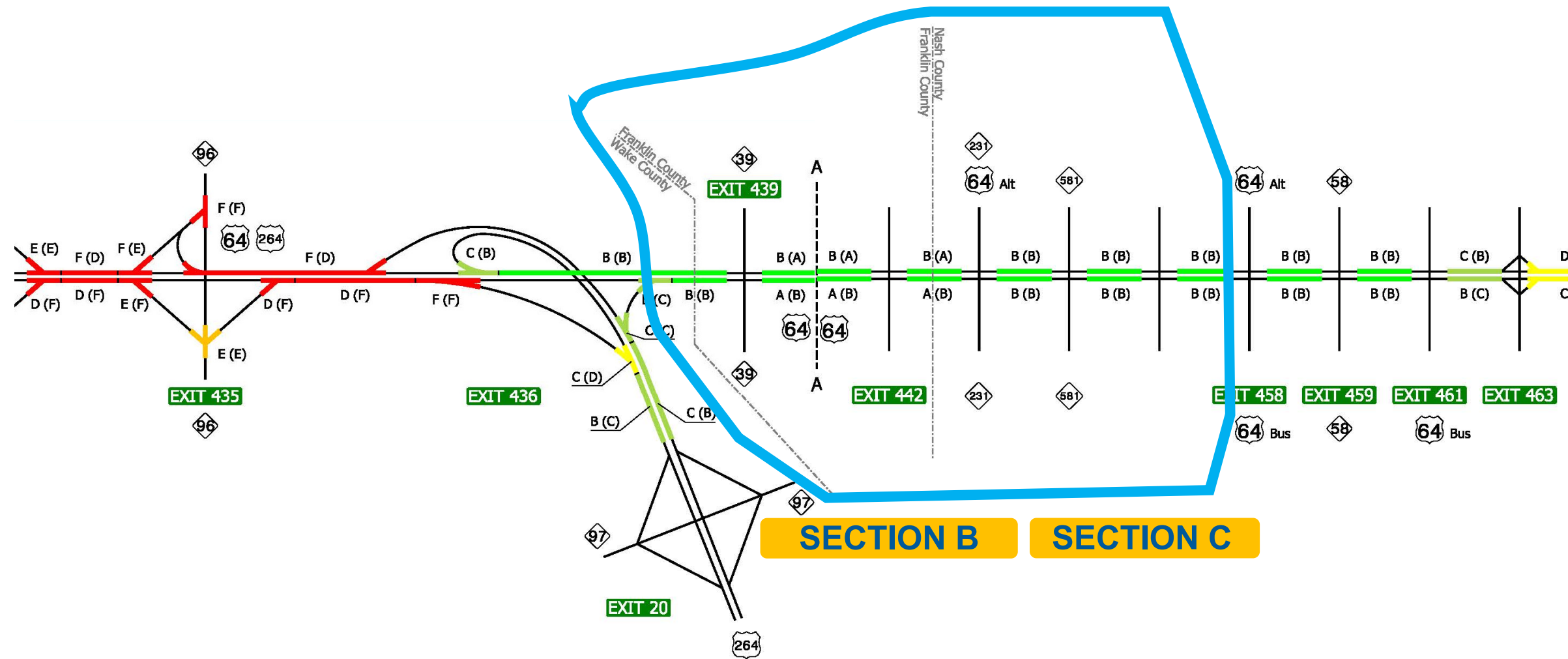
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A**

**SCOPING MEETING**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# Study Corridor (cont.) – Bunn Lake, Spring Hope, Mommeier

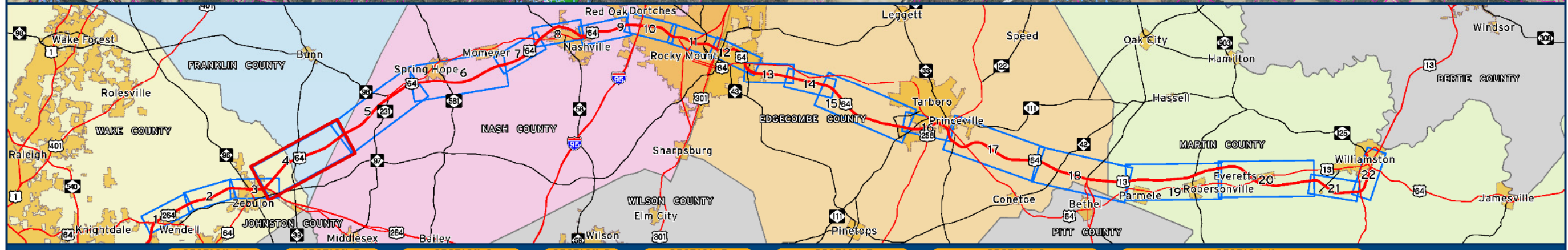
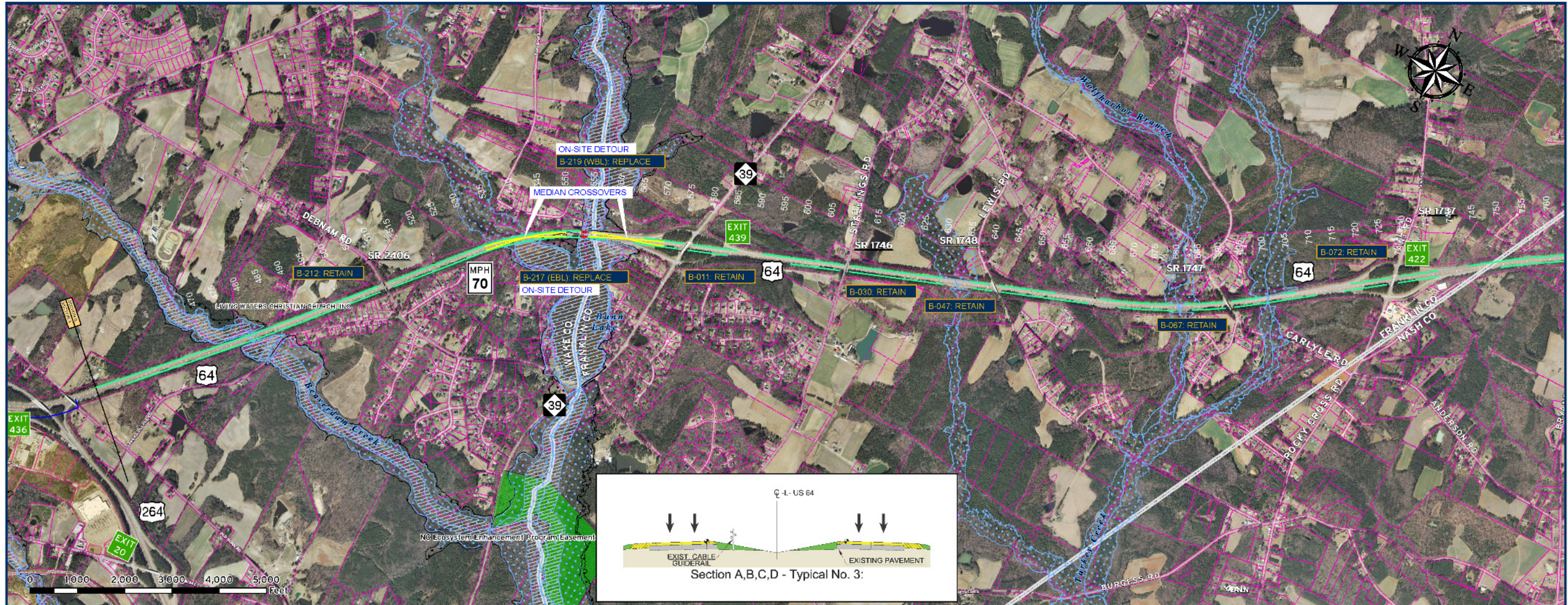


Level of Service (LOS)	
AM (PM)	
Green line	LOS A, B
Yellow line	LOS C
Orange line	LOS D
Red line	LOS E
Dark red line	LOS F

## 2040 NO-BUILD

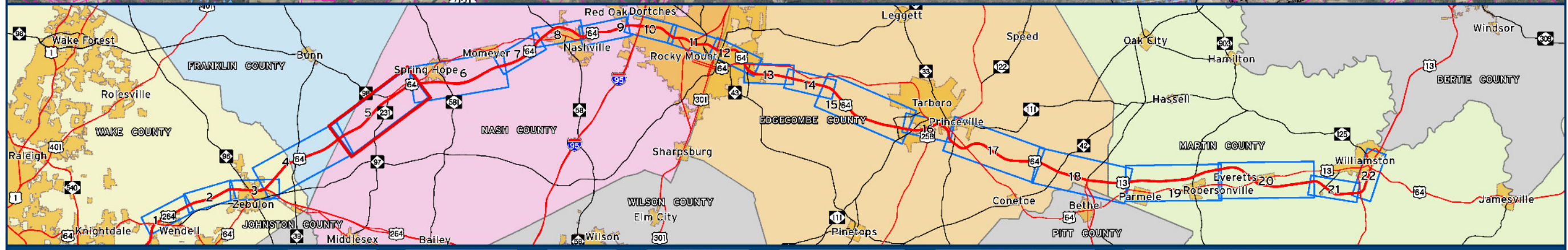
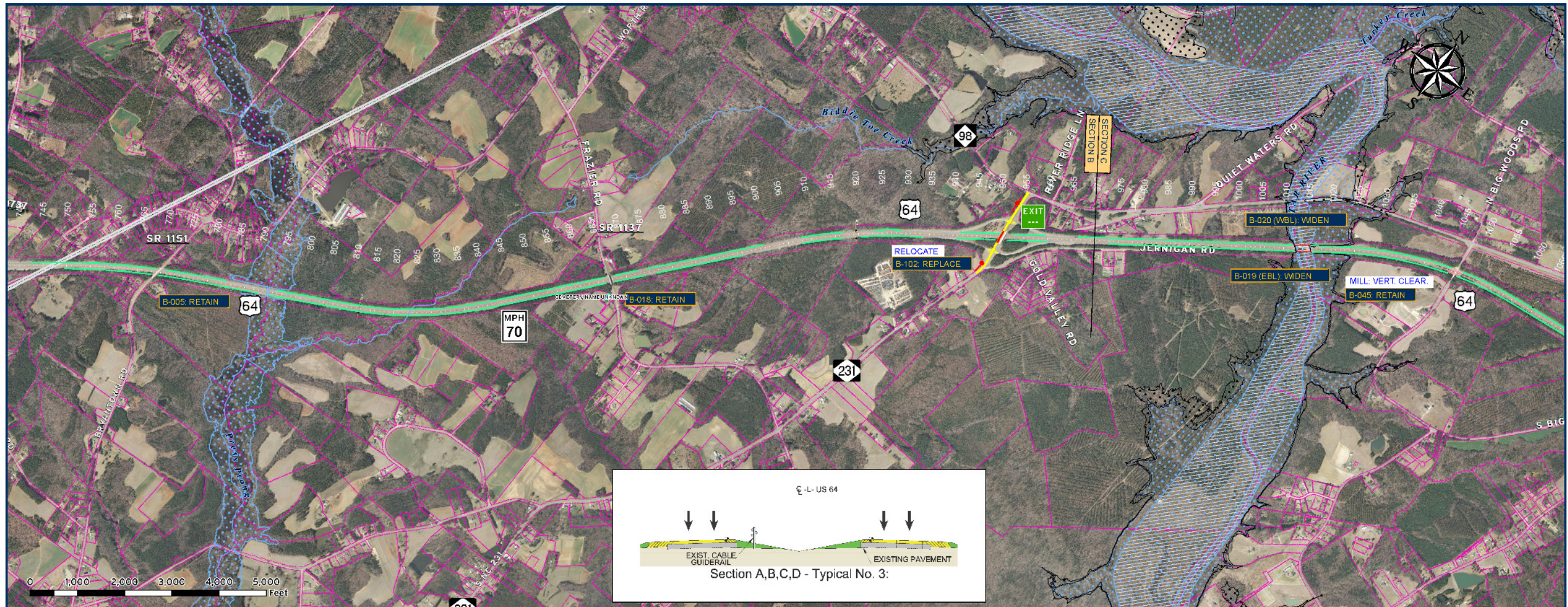
<p>PREPARED FOR: N.C. DEPT. OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.org</p>		<p><b>Figure 1</b> FS-1504A Upgrade US 64 to interstate standards Level of Service (LOS) WAKE, FRANKLIN, NASH, EDGECOMBE, MARTIN COUNTIES</p>
<p>PREPARED BY: <b>RK&amp;K</b> RALEIGH, NORTH CAROLINA www.rk&amp;k.com</p>		

# Study Corridor (cont.) – Bunn Lake, Spring Hope, Momemeyer



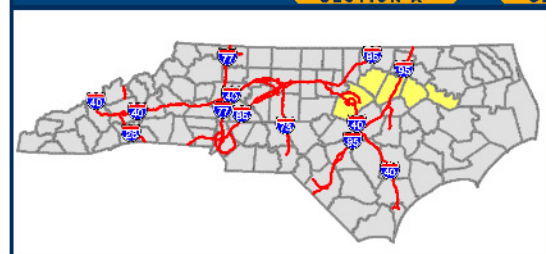
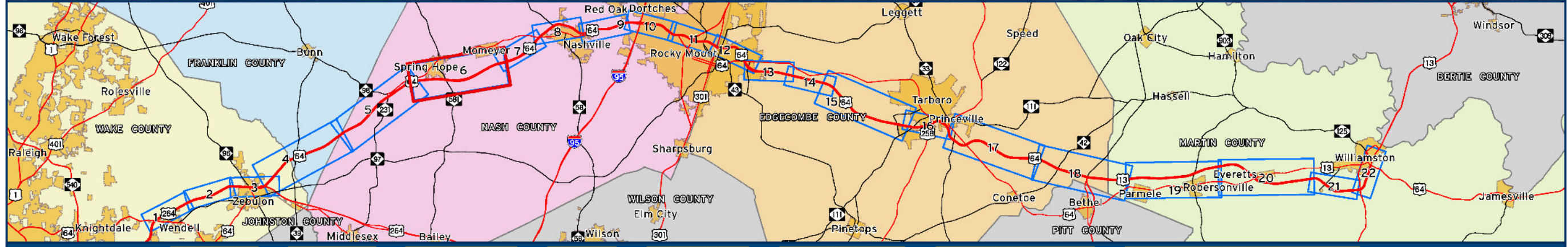
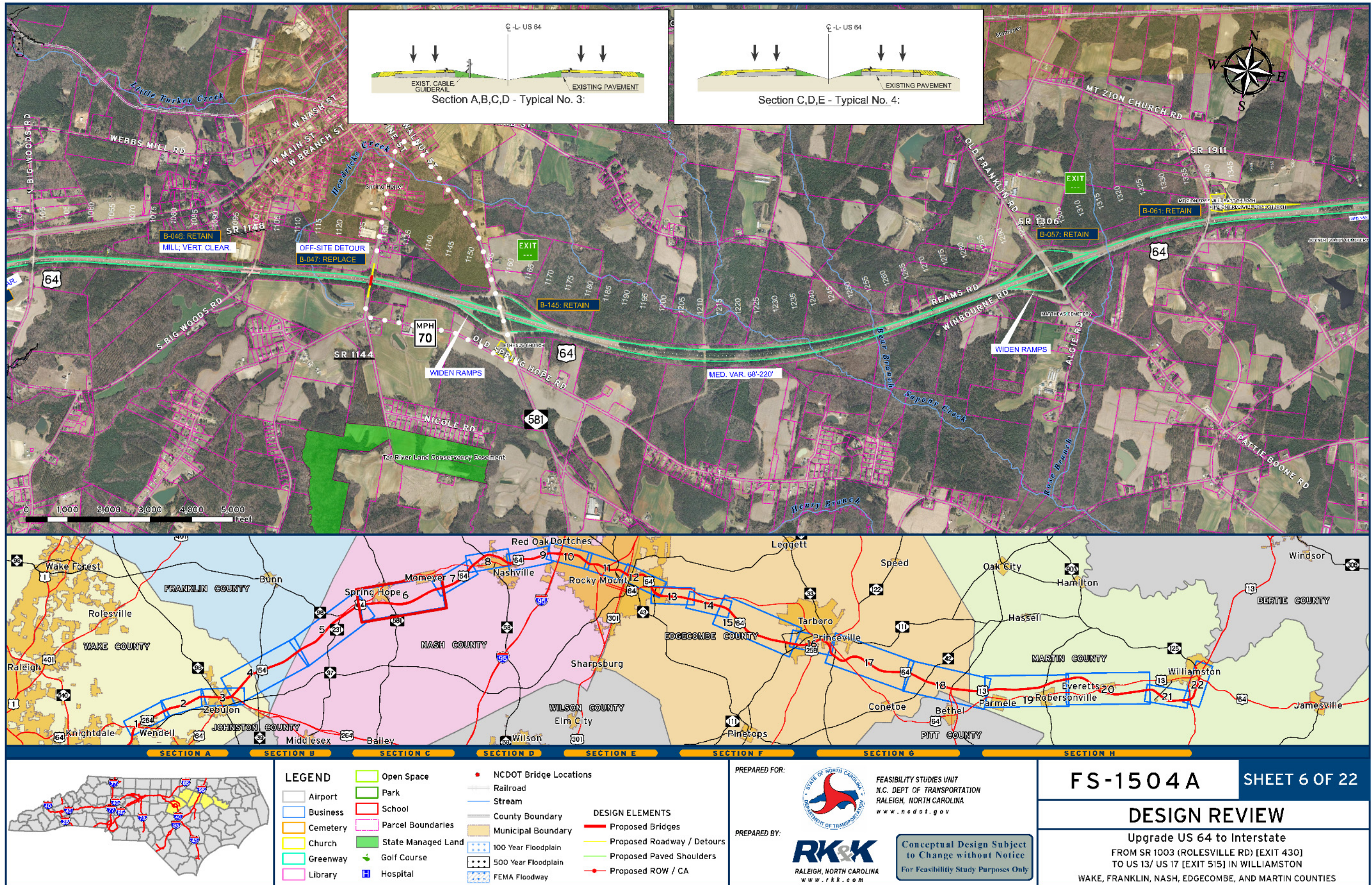
	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>Airport</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR:  FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 4 OF 22
			PREPARED BY:  RALEIGH, NORTH CAROLINA www.rkk.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

# Study Corridor (cont.) – Bunn Lake, Spring Hope, Mommeier



	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR: FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 5 OF 22
			PREPARED BY: RALEIGH, NORTH CAROLINA www.rk&k.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

# Study Corridor (cont.) – Bunn Lake, Spring Hope, Momeyer



LEGEND		DESIGN ELEMENTS	
	Open Space		Proposed Bridges
	Park		Proposed Roadway / Detours
	Airport		Proposed Paved Shoulders
	Business		Proposed ROW / CA
	School		100 Year Floodplain
	Parcel Boundaries		500 Year Floodplain
	Church		FEMA Floodway
	State Managed Land		NCDOT Bridge Locations
	Golf Course		Railroad
	Hospital		Stream
	County Boundary		County Boundary
	Municipal Boundary		Municipal Boundary

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rk&k.com

Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

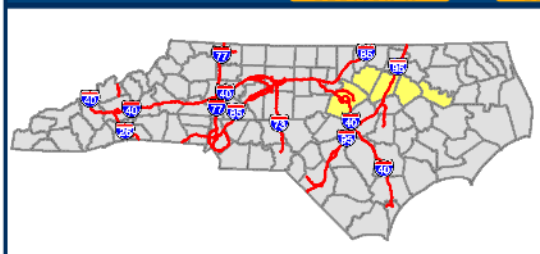
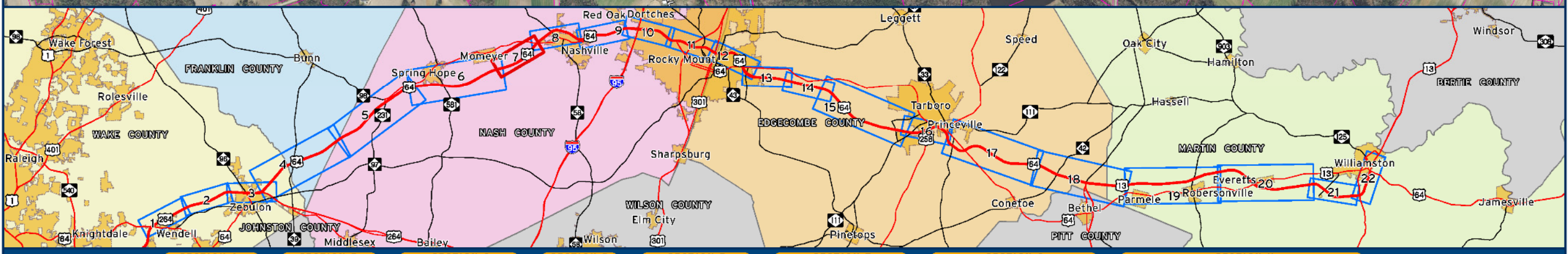
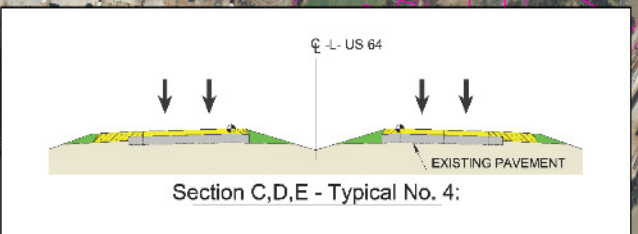
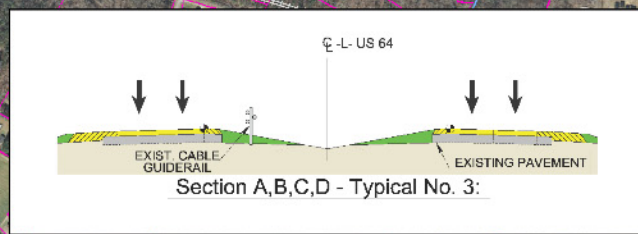
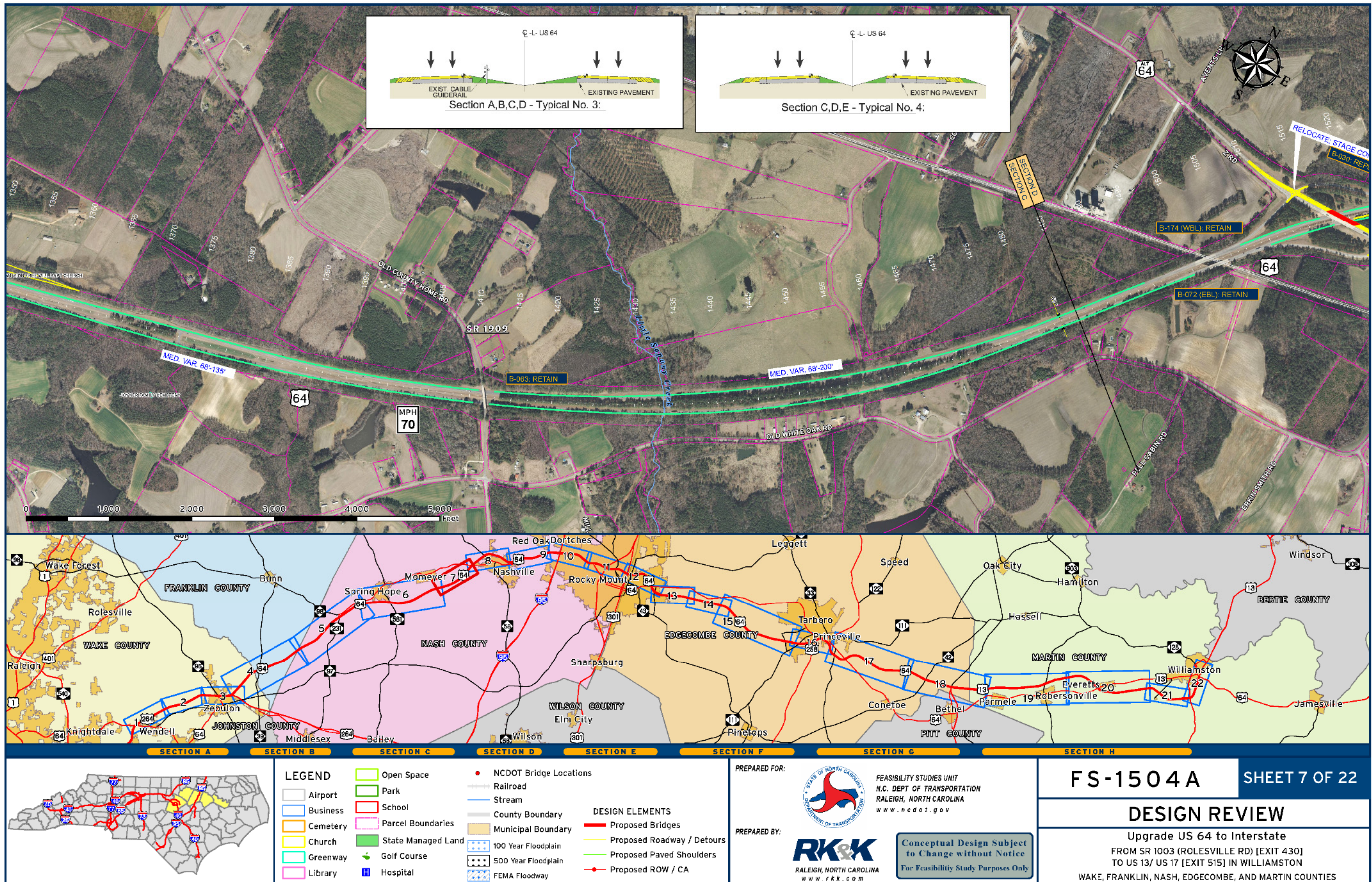
**FS-1504A** SHEET 6 OF 22

**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES



# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



LEGEND		DESIGN ELEMENTS	
	Open Space		Proposed Bridges
	Airport		Proposed Roadway / Detours
	Business		Proposed Paved Shoulders
	School		Proposed ROW / CA
	Parcel Boundaries		100 Year Floodplain
	Church		500 Year Floodplain
	State Managed Land		FEMA Floodway
	Park		NCDOT Bridge Locations
	Golf Course		Railroad
	Hospital		Stream
	Library		County Boundary
			Municipal Boundary

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rkk.com

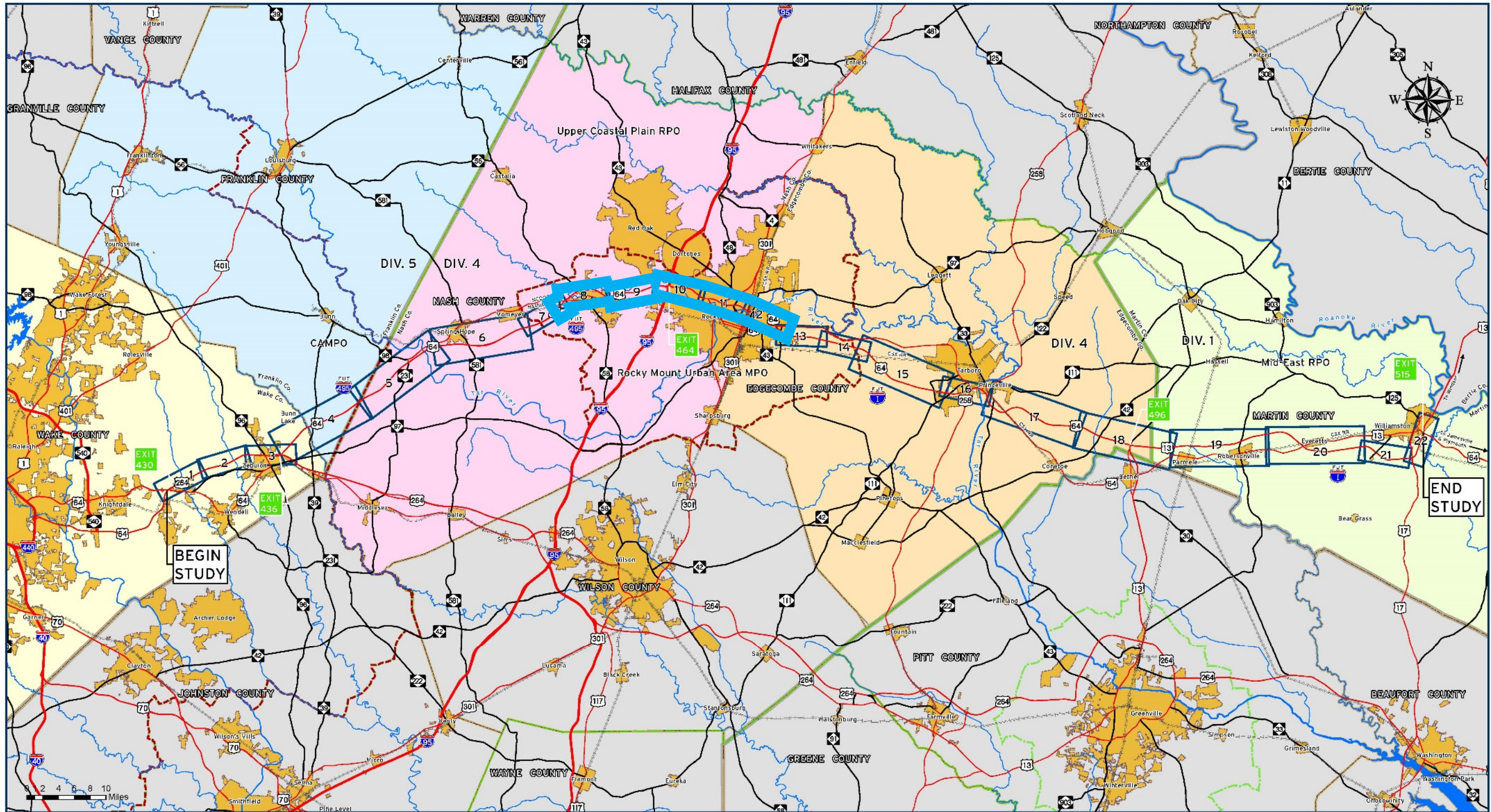
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

FS-1504A SHEET 7 OF 22

**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# Study Corridor – Nashville, I-95, Rocky Mount



LEGEND			
	Interstate		NCDOT Division Boundaries
	NC Route		MPO Boundaries
	US Route		Municipal Boundaries
	Railroad		RPO Boundaries
	Major Rivers		
	County Boundaries		

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rkk.com

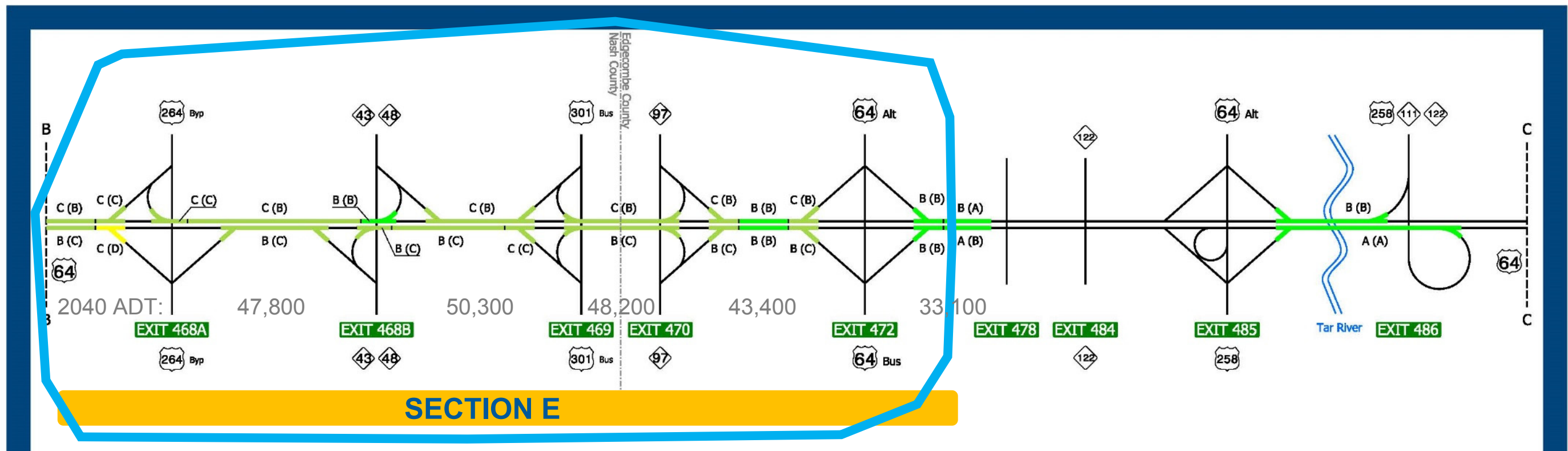
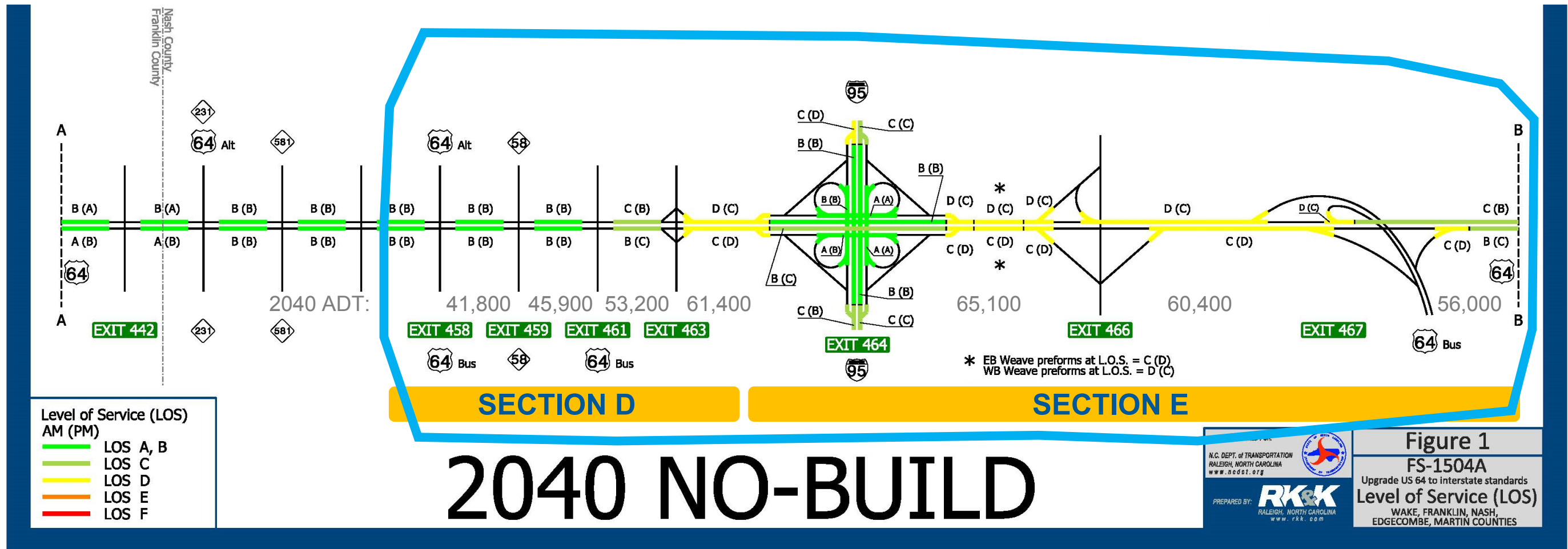
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A**

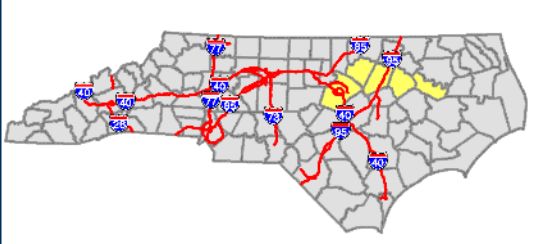
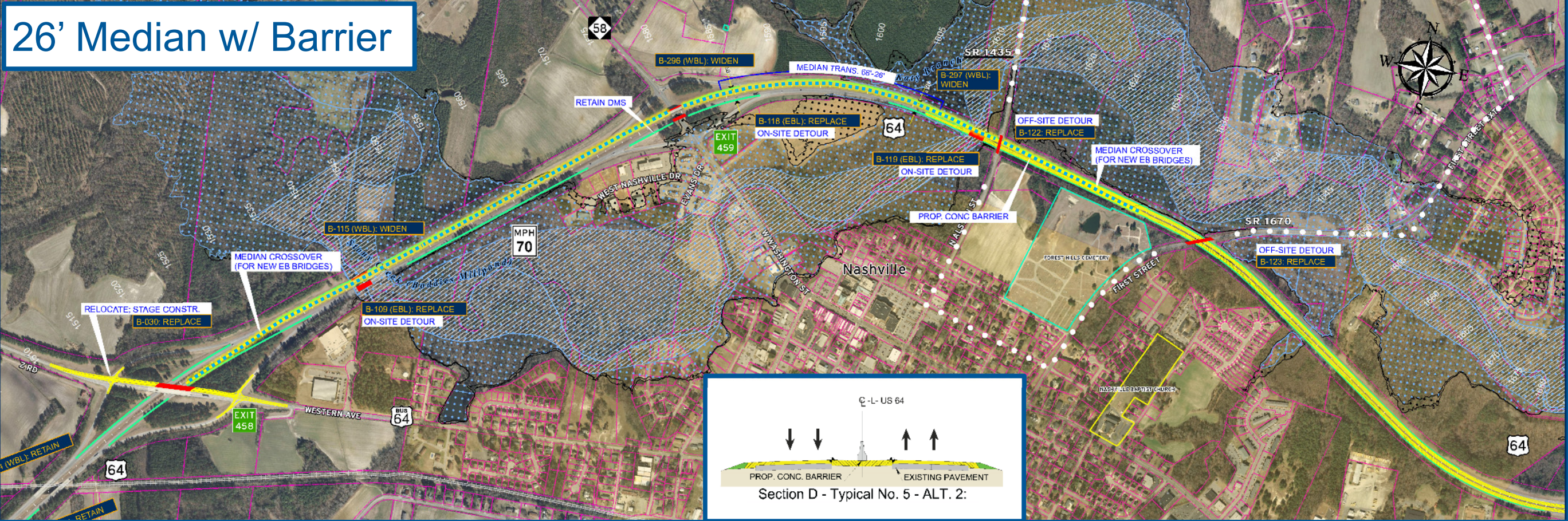
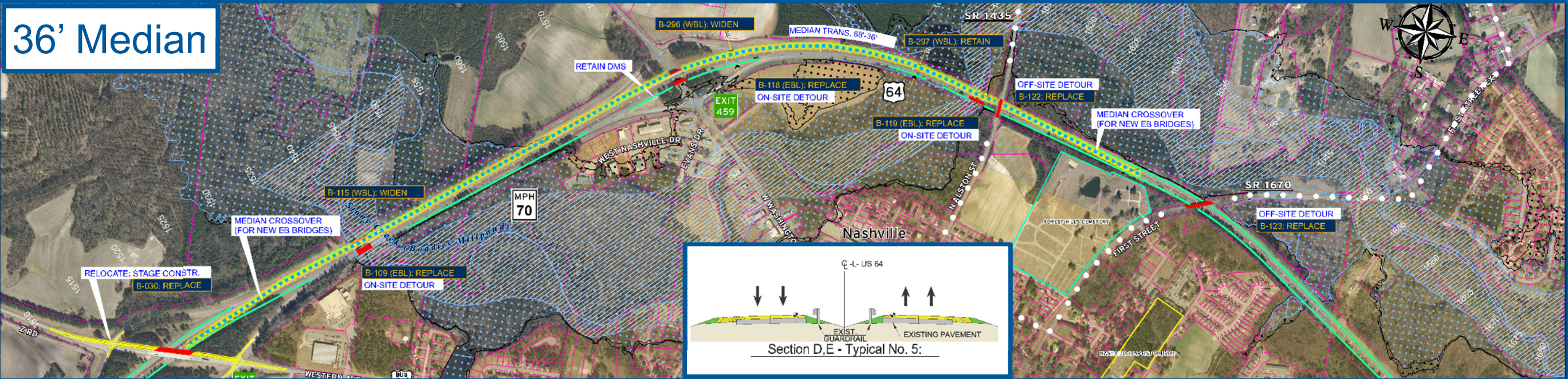
**SCOPING MEETING**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



LEGEND		DESIGN ELEMENTS	
	Open Space		Proposed Bridges
	Park		Proposed Roadway / Detours
	School		Proposed Paved Shoulders
	Cemetery		Proposed ROW / CA
	Church		NCDOT Bridge Locations
	Greenway		Railroad
	Library		Stream
	Hospital		County Boundary
			Municipal Boundary
			100 Year Floodplain
			500 Year Floodplain
			FEMA Floodway

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rkk.com

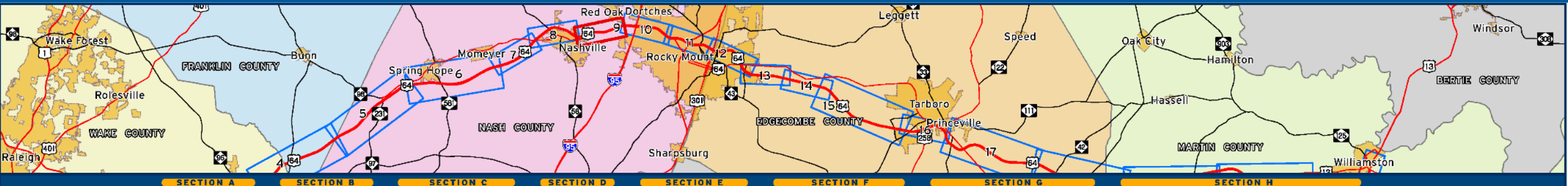
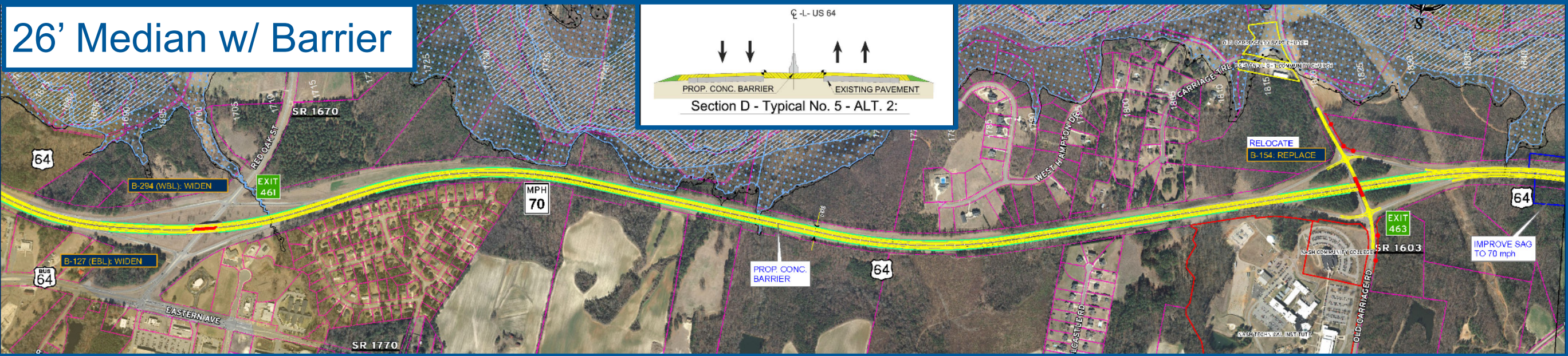
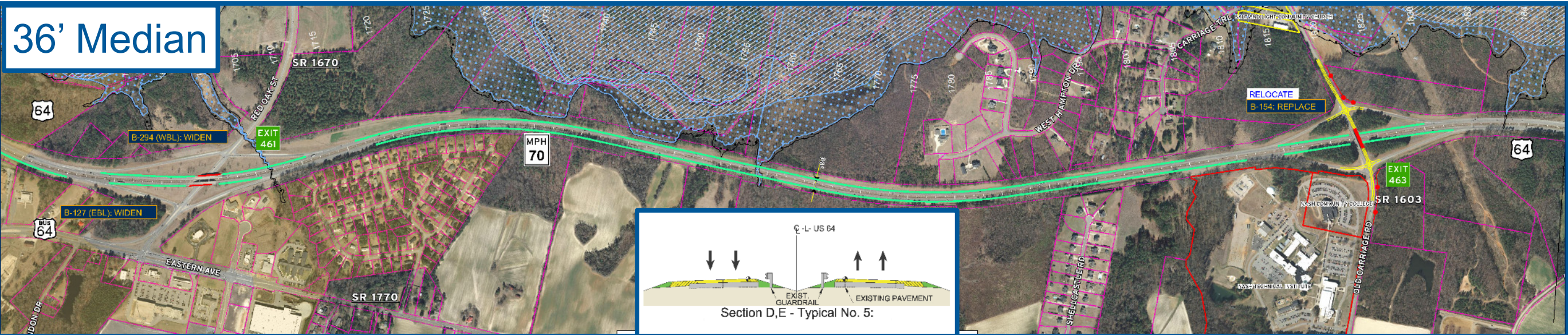
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

FS-1504A SHEET 8 OF 22  
ALT D2

**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES

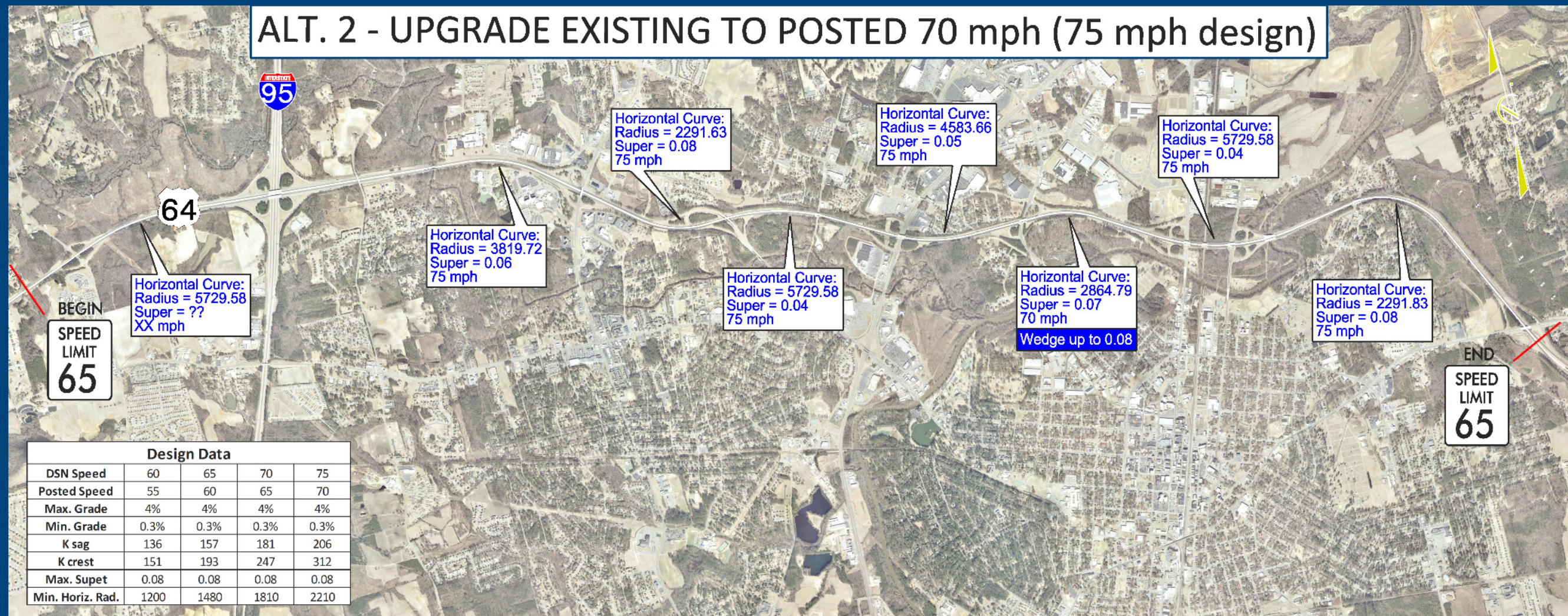
# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



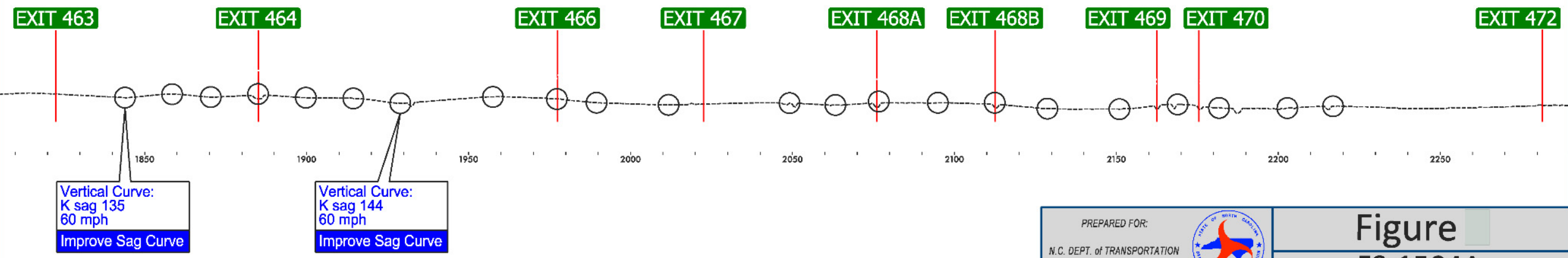
	<b>LEGEND</b> Open Space Park School Parcel Boundaries State Managed Land Golf Course Hospital Railroad Stream County Boundary Municipal Boundary 100 Year Floodplain 500 Year Floodplain FEMA Floodway NCDOT Bridge Locations	<b>DESIGN ELEMENTS</b> Proposed Bridges Proposed Roadway / Detours Proposed Paved Shoulders Proposed ROW / CA	PREPARED FOR:  FEASIBILITY STUDIES UNIT N.C. DEPT. OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 9 OF 22 <b>ALT D2</b> <b>DESIGN REVIEW</b> Upgrade US 64 to Interstate FROM SR 1003 (ROLESVILLE RD) [EXIT 430] TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES
		PREPARED BY:  RALEIGH, NORTH CAROLINA www.rk&k.com Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only		

# Study Corridor (cont.) – Nashville, I-95, Rocky Mount

## ALT. 2 - UPGRADE EXISTING TO POSTED 70 mph (75 mph design)



Design Data				
DSN Speed	60	65	70	75
Posted Speed	55	60	65	70
Max. Grade	4%	4%	4%	4%
Min. Grade	0.3%	0.3%	0.3%	0.3%
K sag	136	157	181	206
K crest	151	193	247	312
Max. Supet	0.08	0.08	0.08	0.08
Min. Horiz. Rad.	1200	1480	1810	2210

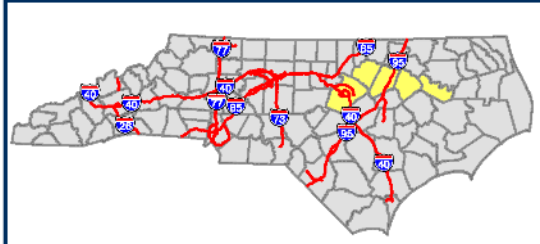
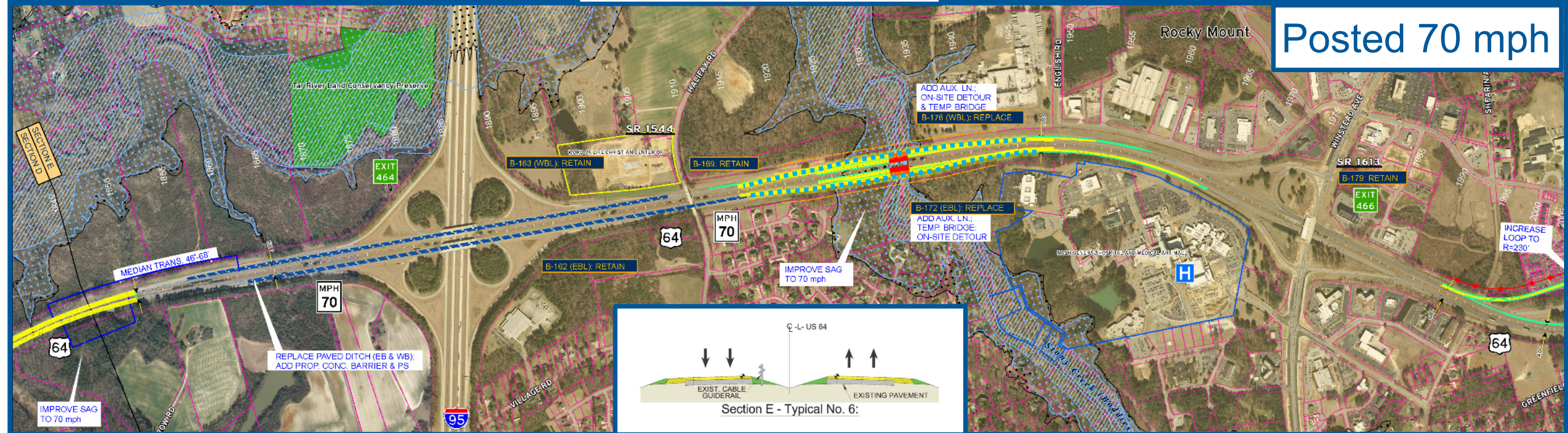
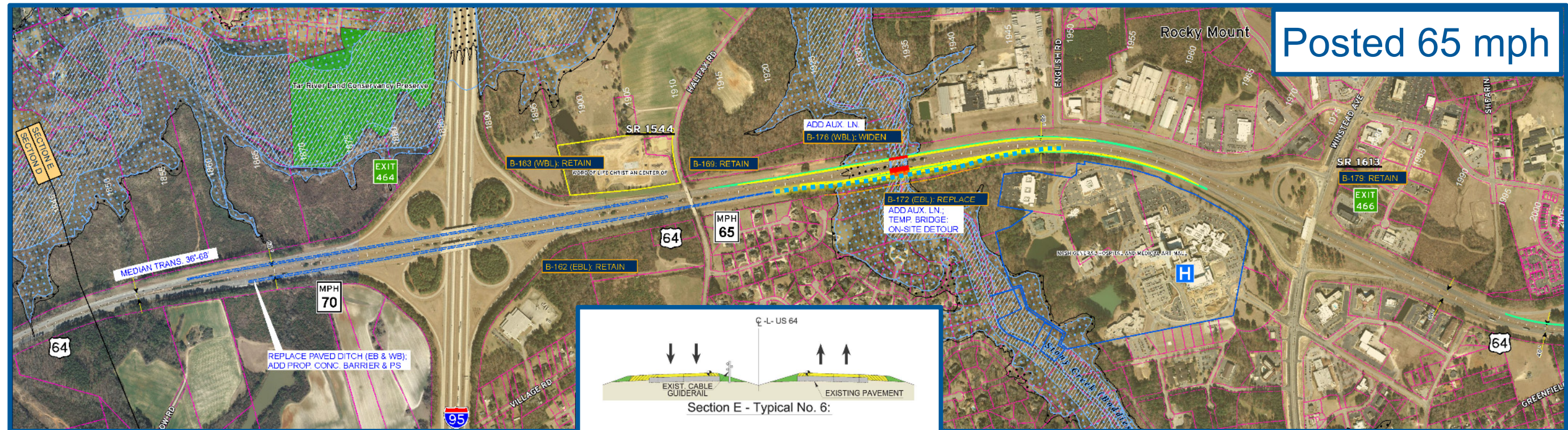


PREPARED FOR:  
 N.C. DEPT. of TRANSPORTATION  
 RALEIGH, NORTH CAROLINA  
 www.ncdot.org

PREPARED BY:  
**RK&K**  
 RALEIGH, NORTH CAROLINA  
 www.rkk.com

**Figure**  
 FS-1504A  
 Upgrade US 64 to  
 Interstate Standards  
 WAKE, FRANKLIN, NASH,  
 EDGEcombe, MARTIN COUNTIES

# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



LEGEND		DESIGN ELEMENTS	
Open Space	School	Proposed Bridges	Proposed Roadway / Detours
Airport	Parcel Boundaries	Proposed Paved Shoulders	Proposed ROW / CA
Cemetery	State Managed Land	100 Year Floodplain	
Church	Golf Course	500 Year Floodplain	
Greenway	Hospital	FEMA Floodway	
Library		NCDOT Bridge Locations	
		Railroad	
		Stream	
		County Boundary	
		Municipal Boundary	

PREPARED FOR: FEASIBILITY STUDIES UNIT  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY: RALEIGH, NORTH CAROLINA  
www.rk&k.com

Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

**FS-1504A** SHEET 10 OF 22  
**ALT E2**

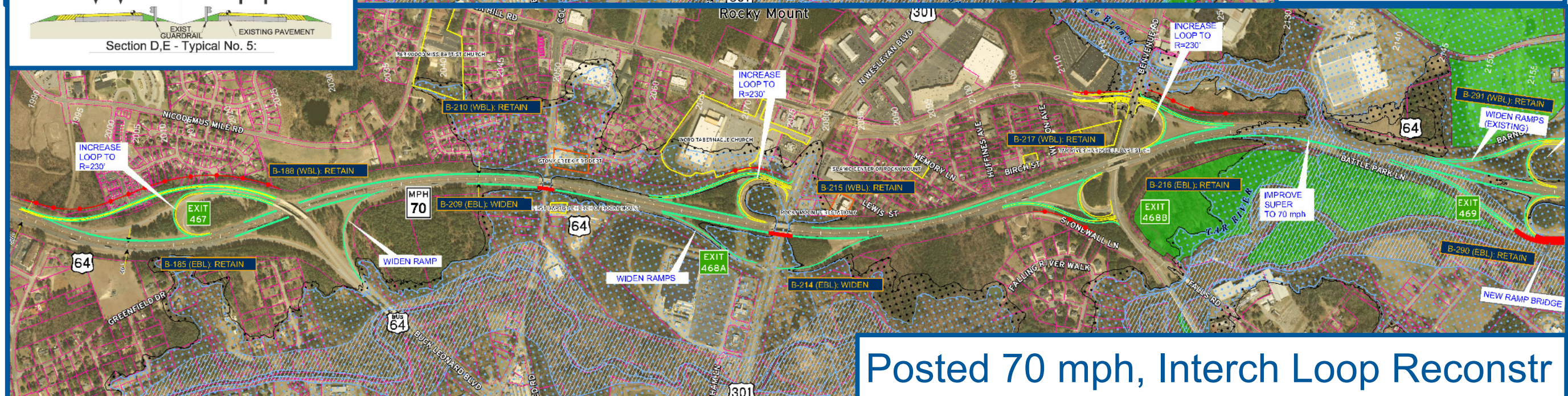
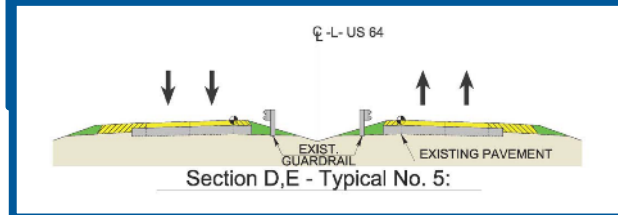
**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES

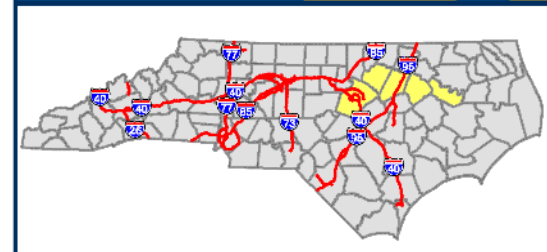
# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



Posted 65 mph



Posted 70 mph, Interchamber Loop Reconstr



LEGEND	
	Open Space
	Park
	School
	Cemetery
	Church
	Greenway
	Library
	Airport
	Business
	Parcel Boundaries
	State Managed Land
	Golf Course
	Hospital
	NCDOT Bridge Locations
	Railroad
	Stream
	County Boundary
	Municipal Boundary
	100 Year Floodplain
	500 Year Floodplain
	FEMA Floodway

DESIGN ELEMENTS	
	Proposed Bridges
	Proposed Roadway / Detours
	Proposed Paved Shoulders
	Proposed ROW / CA

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rk&k.com

CONCEPTUAL DESIGN SUBJECT TO CHANGE WITHOUT NOTICE FOR FEASIBILITY STUDY PURPOSES ONLY

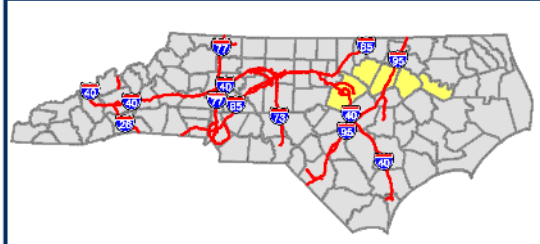
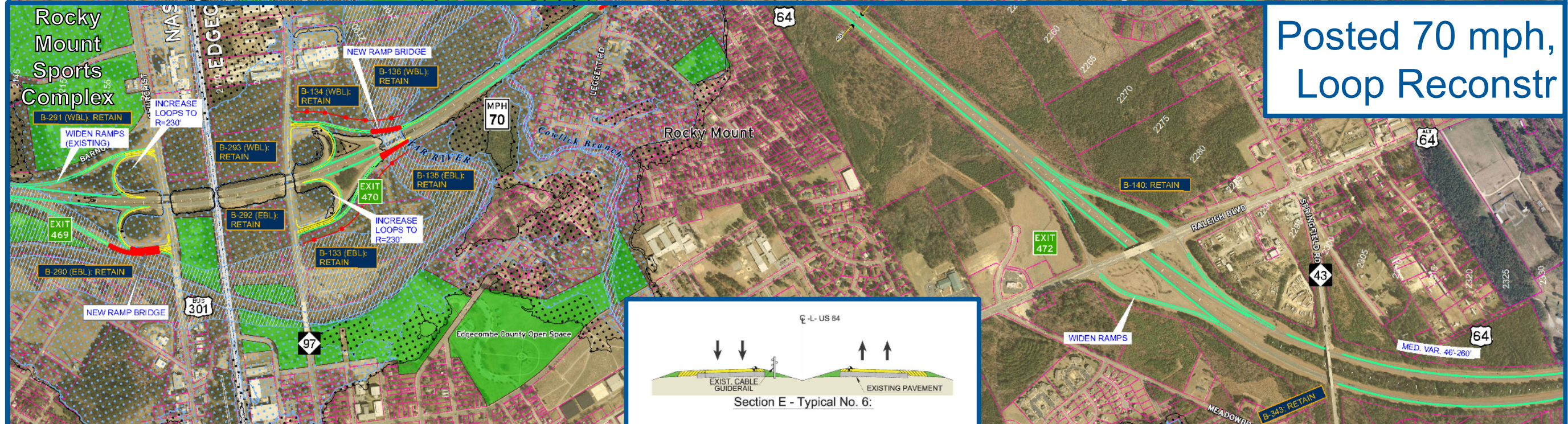
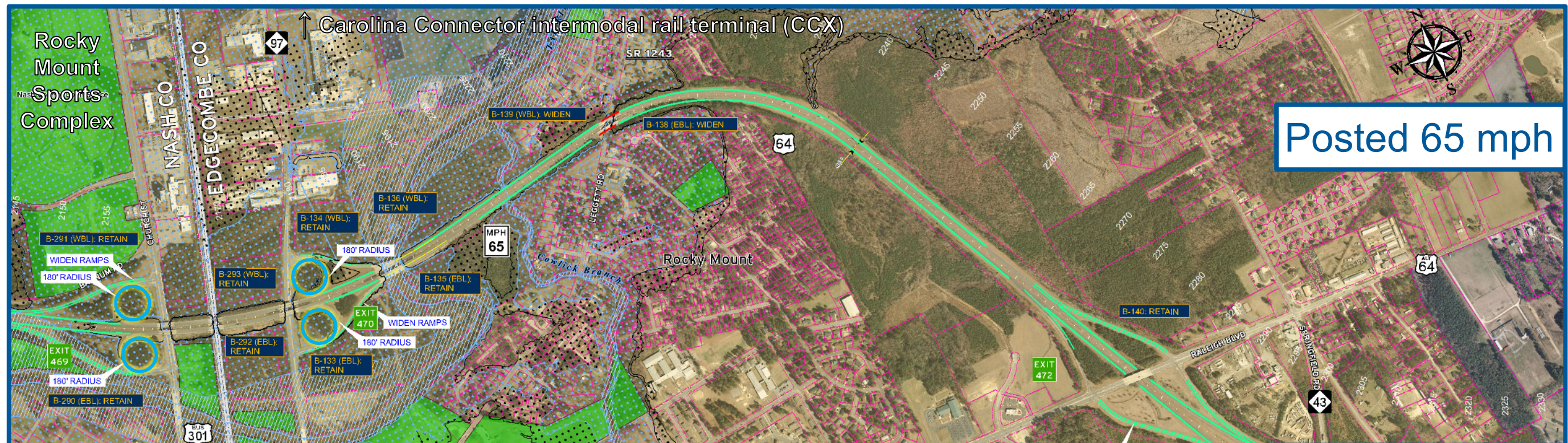
FS-1504A SHEET 11 OF 22 ALT E2

### DESIGN REVIEW

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES



# Study Corridor (cont.) – Nashville, I-95, Rocky Mount



LEGEND		DESIGN ELEMENTS	
	Open Space		Proposed Bridges
	Park		Proposed Roadway / Detours
	School		Proposed Paved Shoulders
	Business		Proposed ROW / CA
	Cemetery		NCDOT Bridge Locations
	Church		Railroad
	Greenway		Stream
	Library		County Boundary
	Hospital		Municipal Boundary
			100 Year Floodplain
			500 Year Floodplain
			FEMA Floodway

PREPARED FOR:

FEASIBILITY STUDIES UNIT  
N.C. DEPT OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

PREPARED BY:

RALEIGH, NORTH CAROLINA  
www.rkk.com

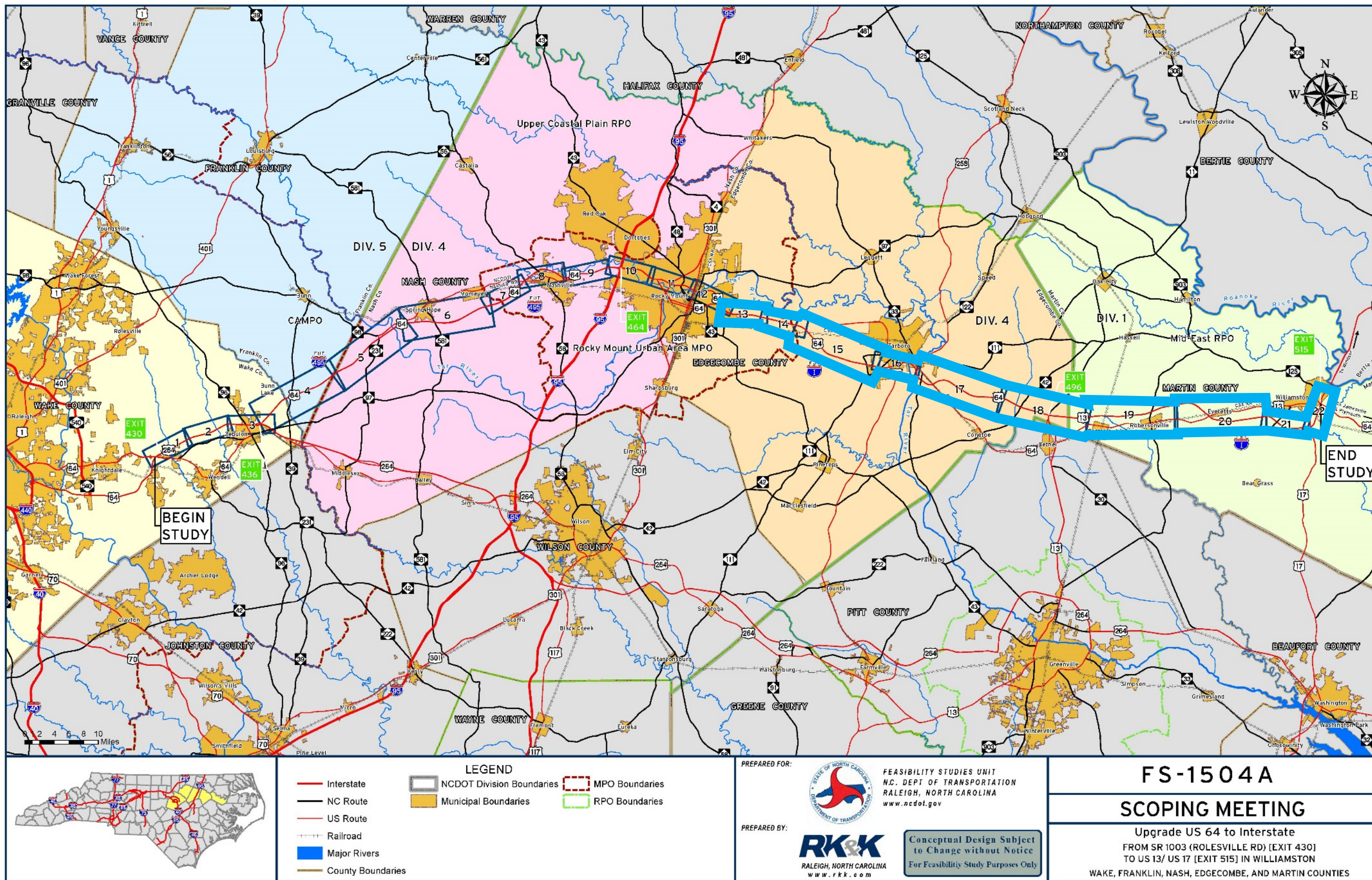
Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

FS-1504A SHEET 12 OF 22  
ALT E2

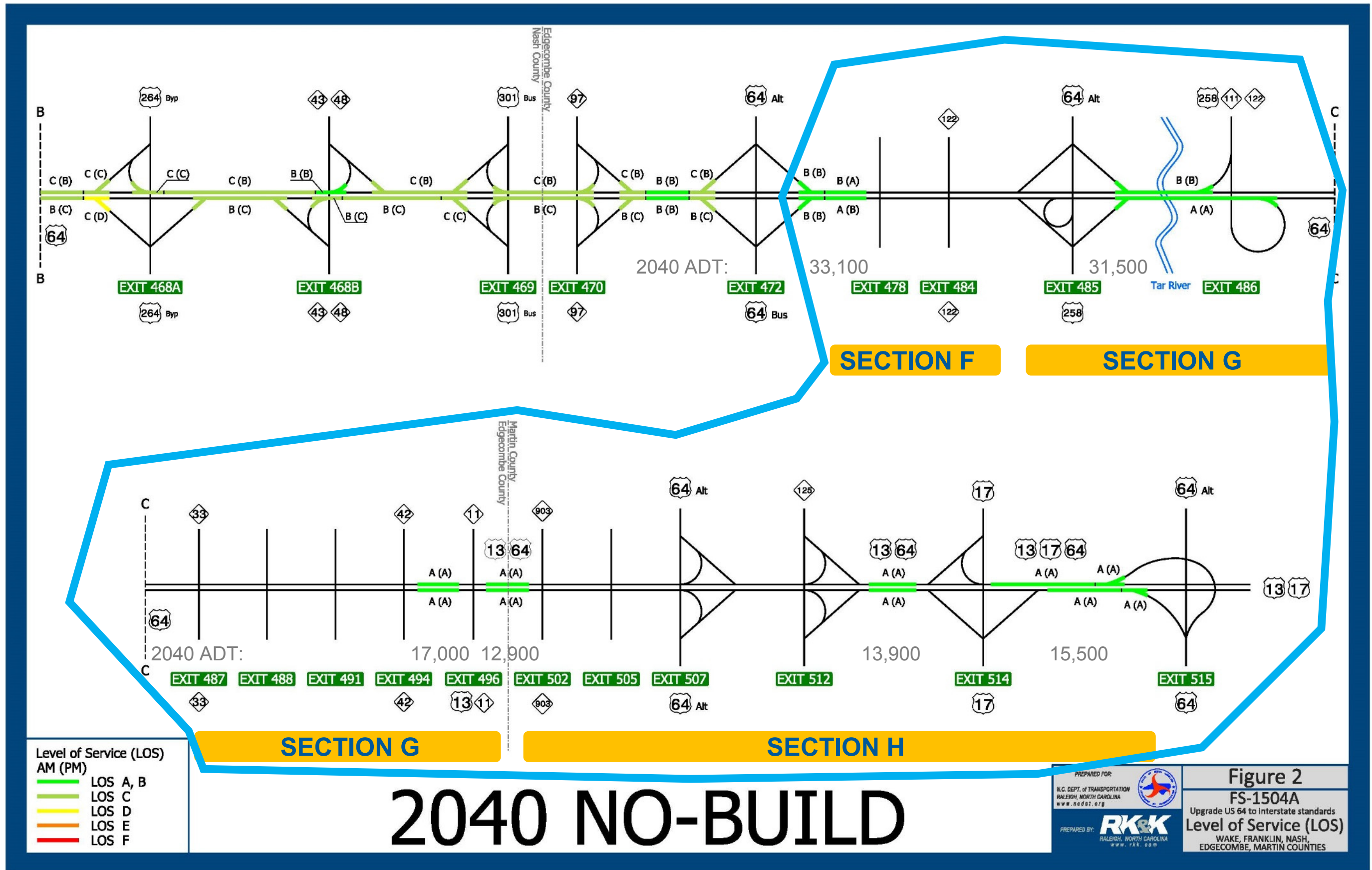
**DESIGN REVIEW**

Upgrade US 64 to Interstate  
FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
WAKE, FRANKLIN, NASH, EDGEcombe, AND MARTIN COUNTIES

# Study Corridor, LOS Diagrams, Plan Sheets



# Study Corridor (cont.) – East of Rocky Mount

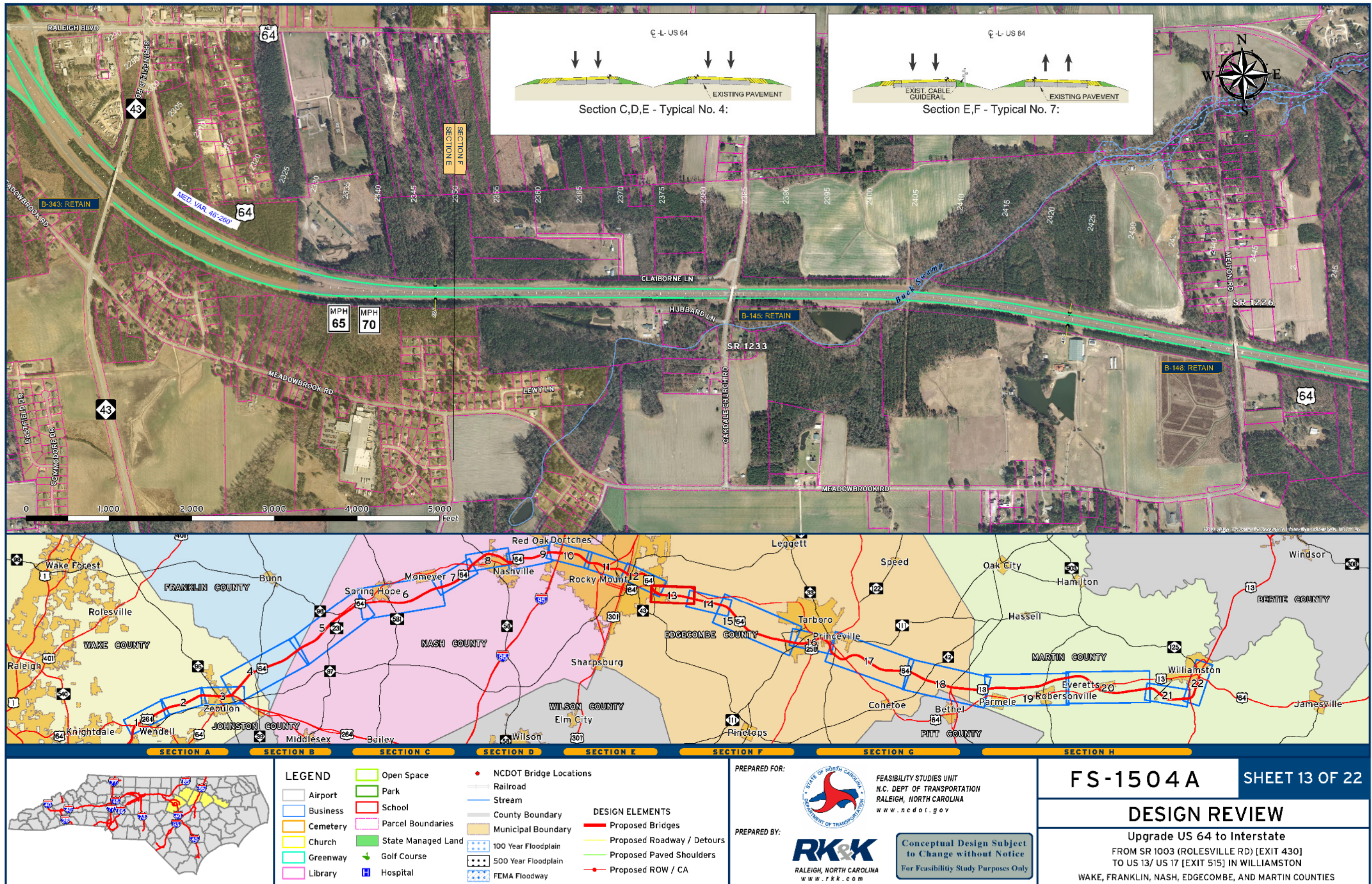


PREPARED FOR:  
N.C. DEPT. OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.org

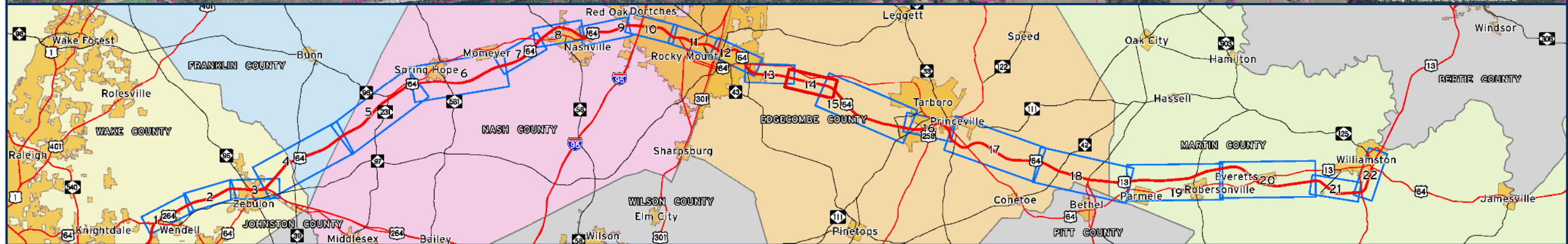
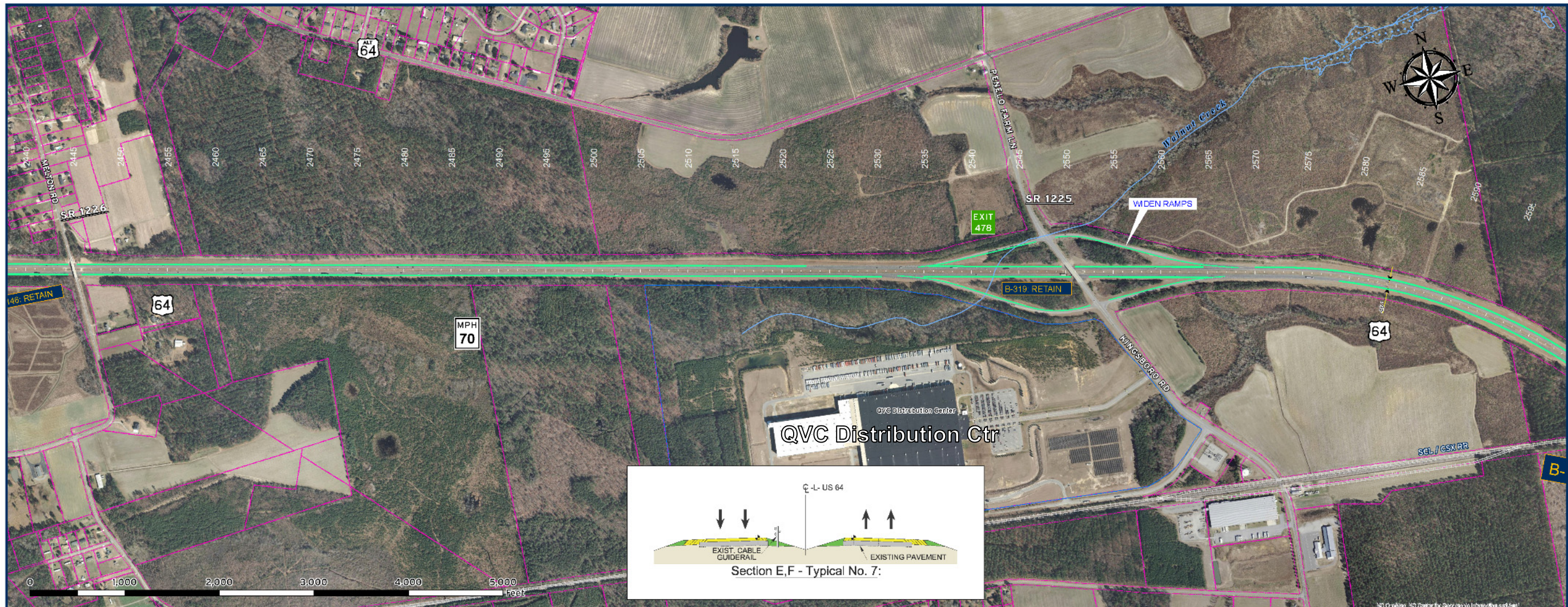
PREPARED BY:  
**RK&K**  
RALEIGH, NORTH CAROLINA  
www.rk.com

**Figure 2**  
FS-1504A  
Upgrade US 64 to Interstate standards  
Level of Service (LOS)  
WAKE, FRANKLIN, NASH,  
EDGECOMBE, MARTIN COUNTIES

# Study Corridor (cont.) – East of Rocky Mount

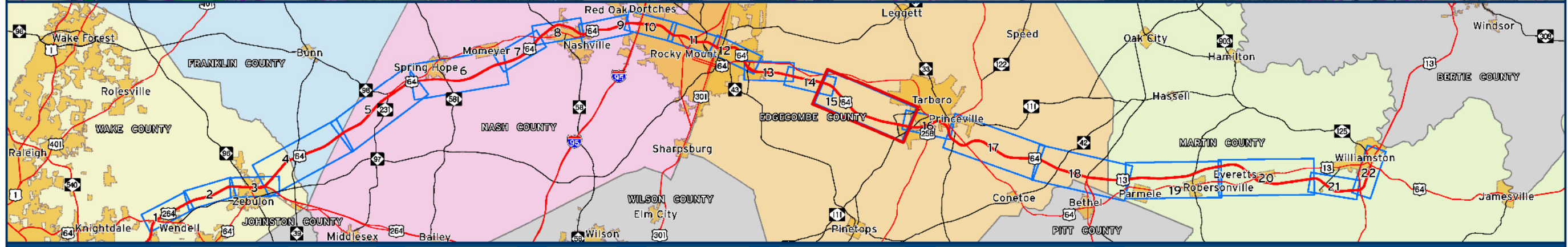
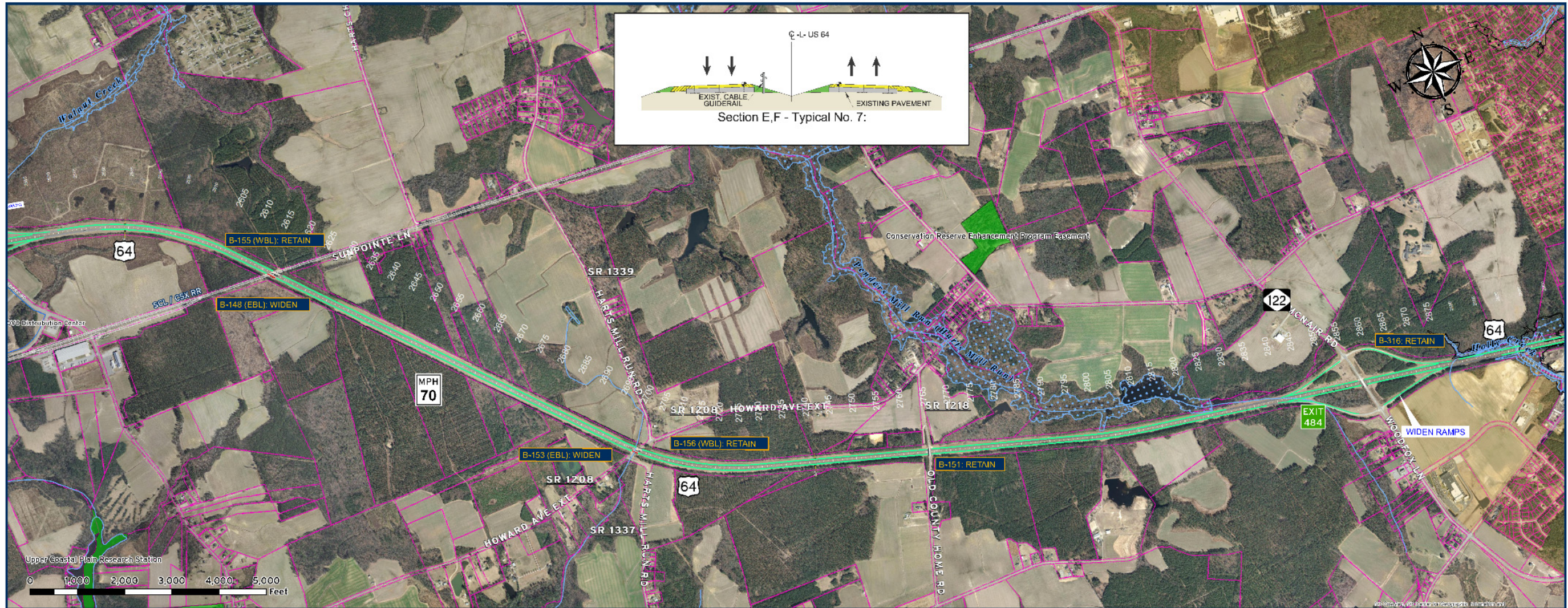


# Study Corridor (cont.) – East of Rocky Mount



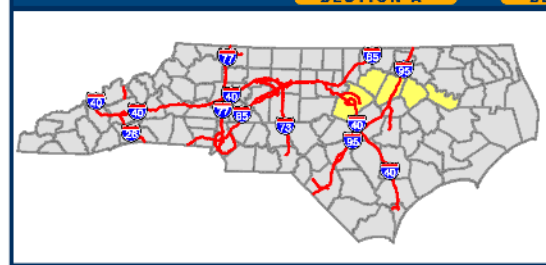
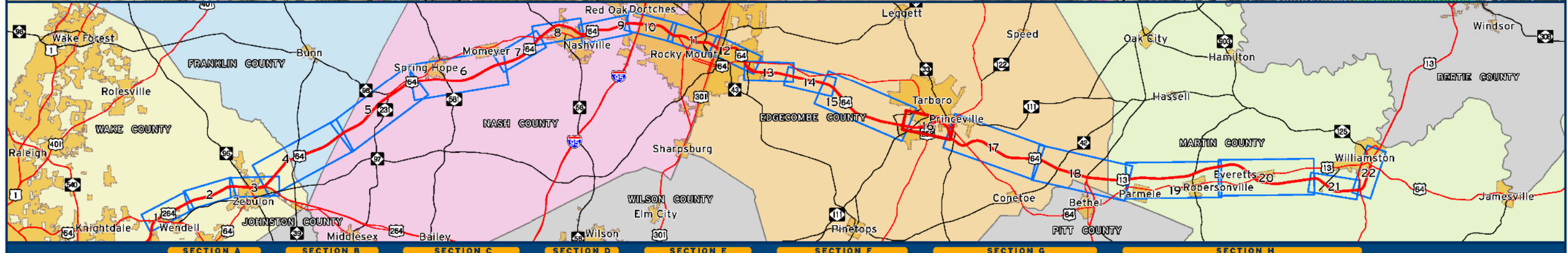
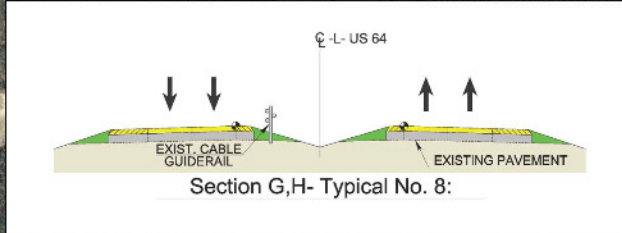
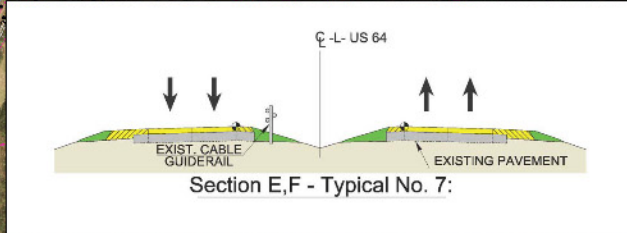
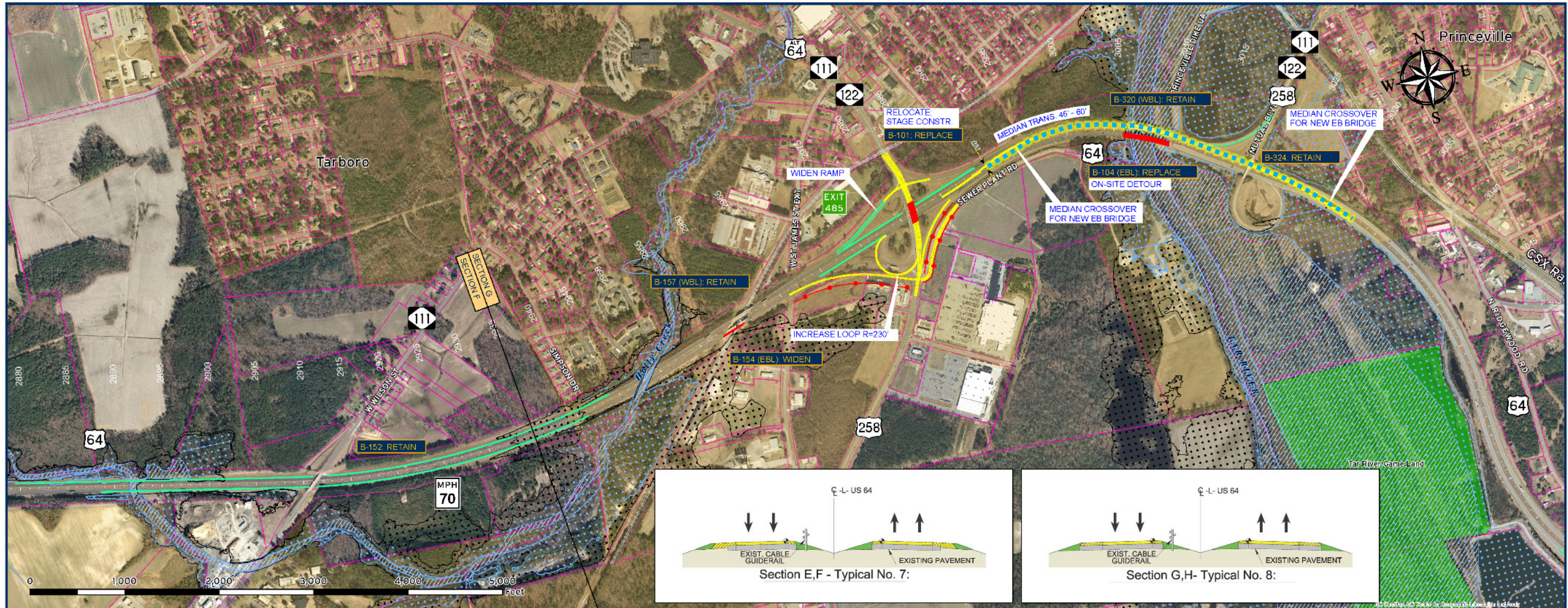
	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR:  FEASIBILITY STUDIES UNIT N.C. DEPT. OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 14 OF 22
			PREPARED BY:  RALEIGH, NORTH CAROLINA www.rk-k.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

# Study Corridor (cont.) – East of Rocky Mount



	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR: FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 15 OF 22
			PREPARED BY: RALEIGH, NORTH CAROLINA www.rkk.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

# Study Corridor (cont.) – East of Rocky Mount



LEGEND		DESIGN ELEMENTS	
Open Space	NCDOT Bridge Locations	Proposed Bridges	Proposed ROW / CA
Park	Railroad	Proposed Roadway / Detours	Proposed Paved Shoulders
Business	Stream	100 Year Floodplain	
School	County Boundary	500 Year Floodplain	
Cemetery	Municipal Boundary	FEMA Floodway	
Church	State Managed Land		
Greenway	Golf Course		
Library	Hospital		

PREPARED FOR:  
 FEASIBILITY STUDIES UNIT  
 N.C. DEPT. OF TRANSPORTATION  
 RALEIGH, NORTH CAROLINA  
 www.ncdot.gov

PREPARED BY:  
 RALEIGH, NORTH CAROLINA  
 www.rkk.com

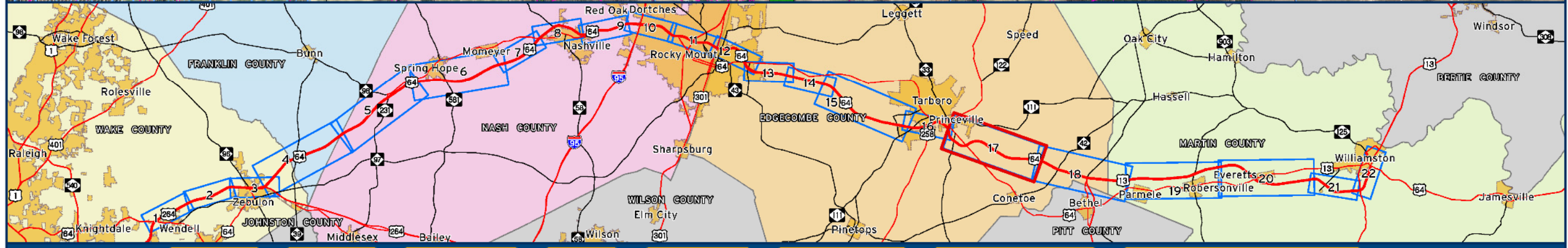
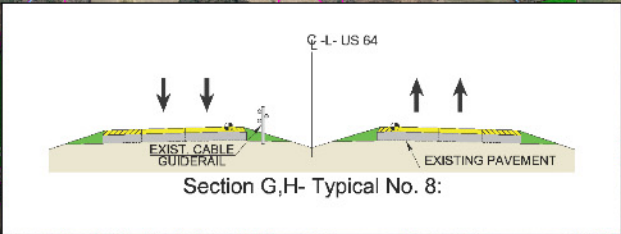
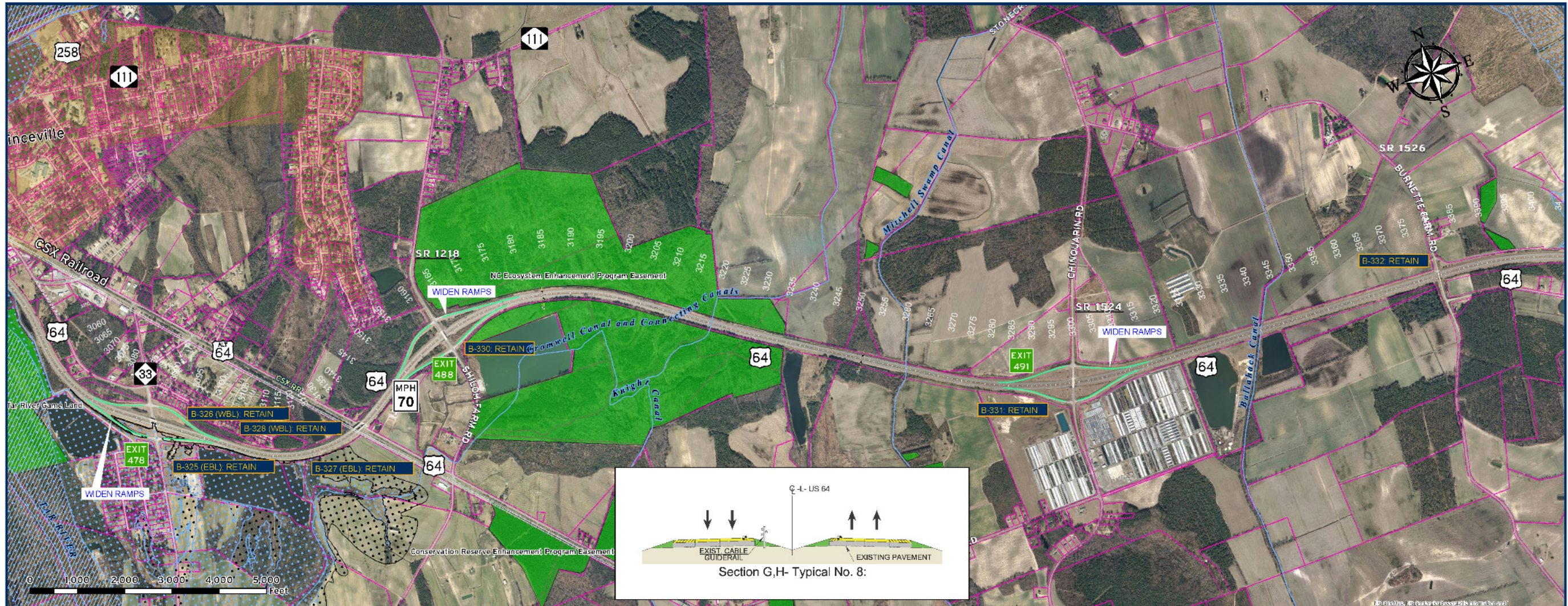
Conceptual Design Subject to Change without Notice  
 For Feasibility Study Purposes Only

**FS-1504A** SHEET 16 OF 22

**DESIGN REVIEW**

Upgrade US 64 to Interstate  
 FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
 TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
 WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

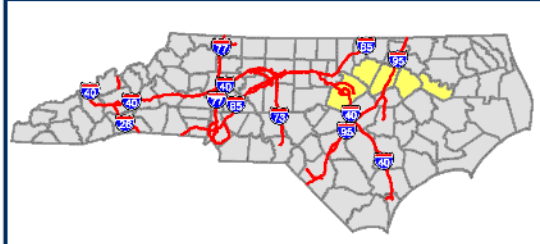
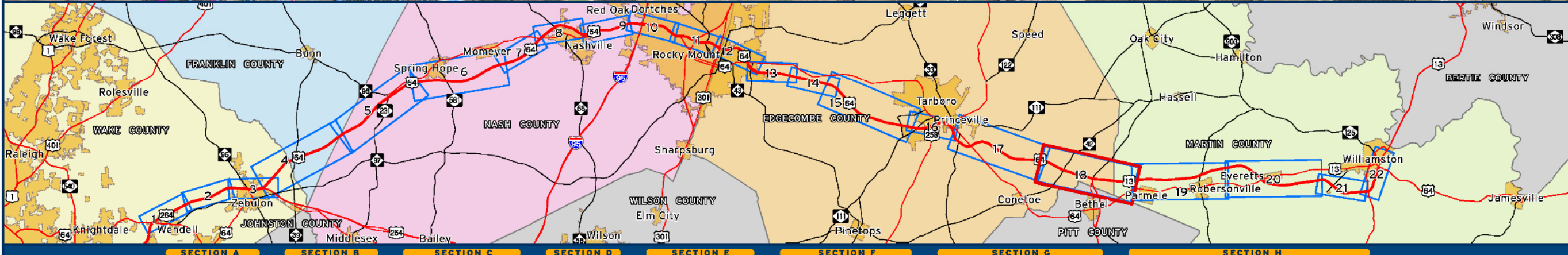
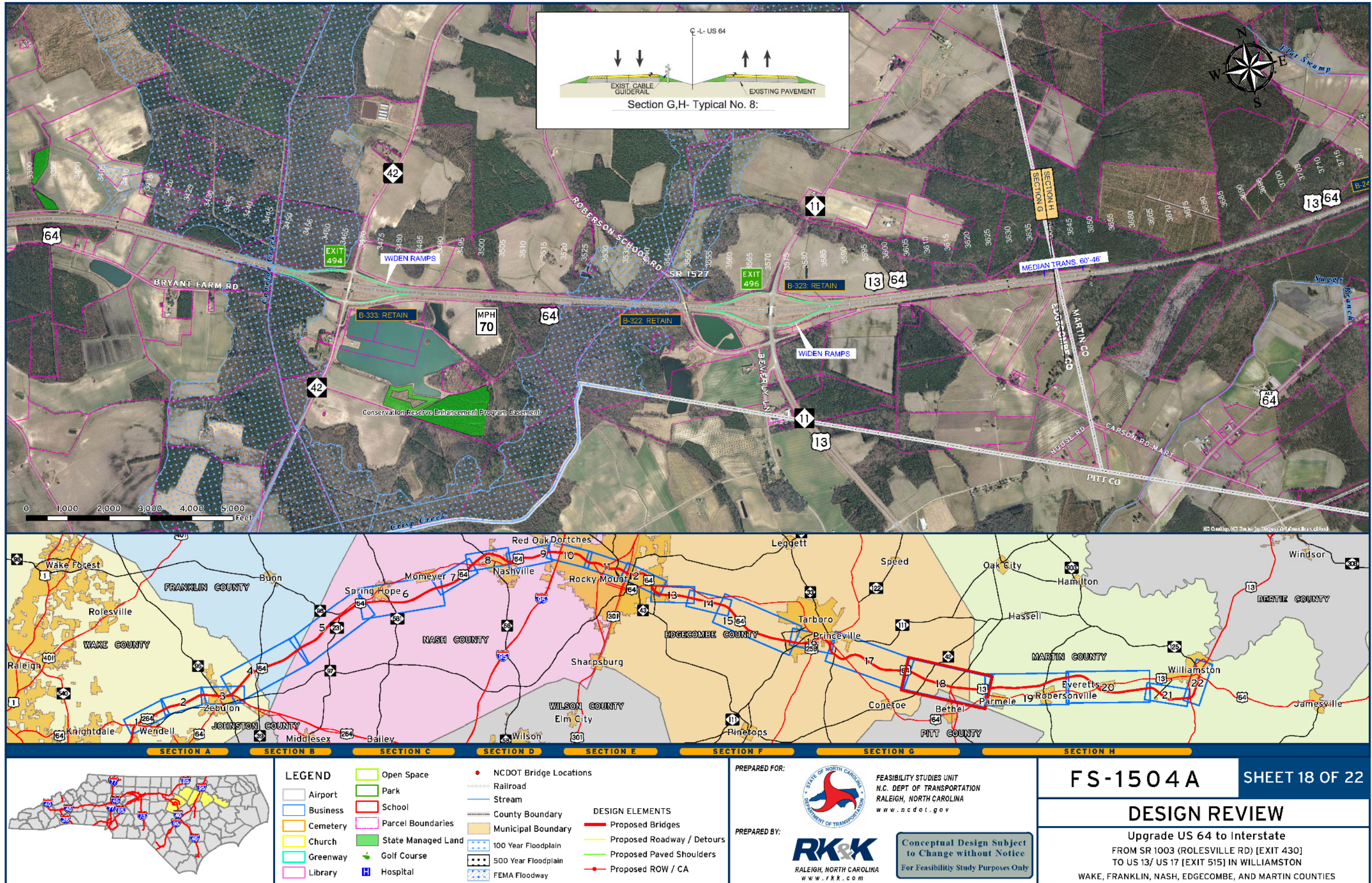
# Study Corridor (cont.) – East of Rocky Mount



	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR: FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 17 OF 22
			PREPARED BY: RALEIGH, NORTH CAROLINA www.rkk.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only



# Study Corridor (cont.) – East of Rocky Mount



LEGEND		DESIGN ELEMENTS	
	Open Space		Proposed Bridges
	Park		Proposed Roadway / Detours
	Business		Proposed Paved Shoulders
	Cemetery		Proposed ROW / CA
	Church		NCDOT Bridge Locations
	Greenway		Railroad
	Library		Stream
	Hospital		County Boundary
	State Managed Land		Municipal Boundary
	Golf Course		100 Year Floodplain
	Widen Ramps		500 Year Floodplain
	RETAIN		FEMA Floodway

PREPARED FOR:  
  
 FEASIBILITY STUDIES UNIT  
 N.C. DEPT. OF TRANSPORTATION  
 RALEIGH, NORTH CAROLINA  
 www.ncdot.gov

PREPARED BY:  
  
 RALEIGH, NORTH CAROLINA  
 www.rkk.com

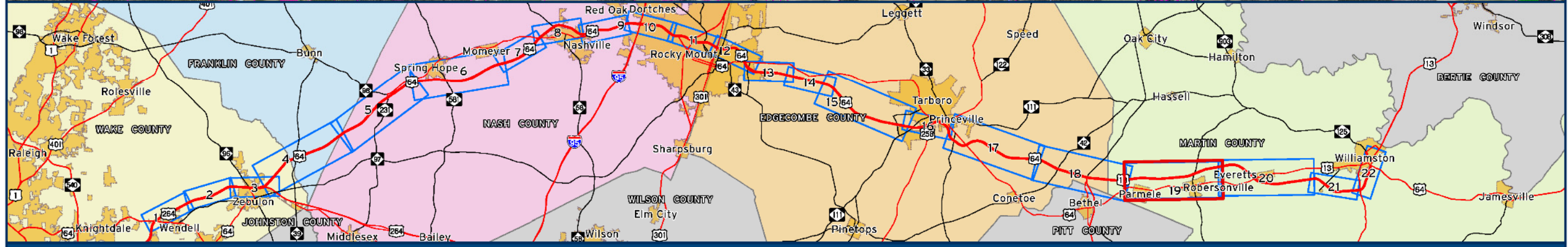
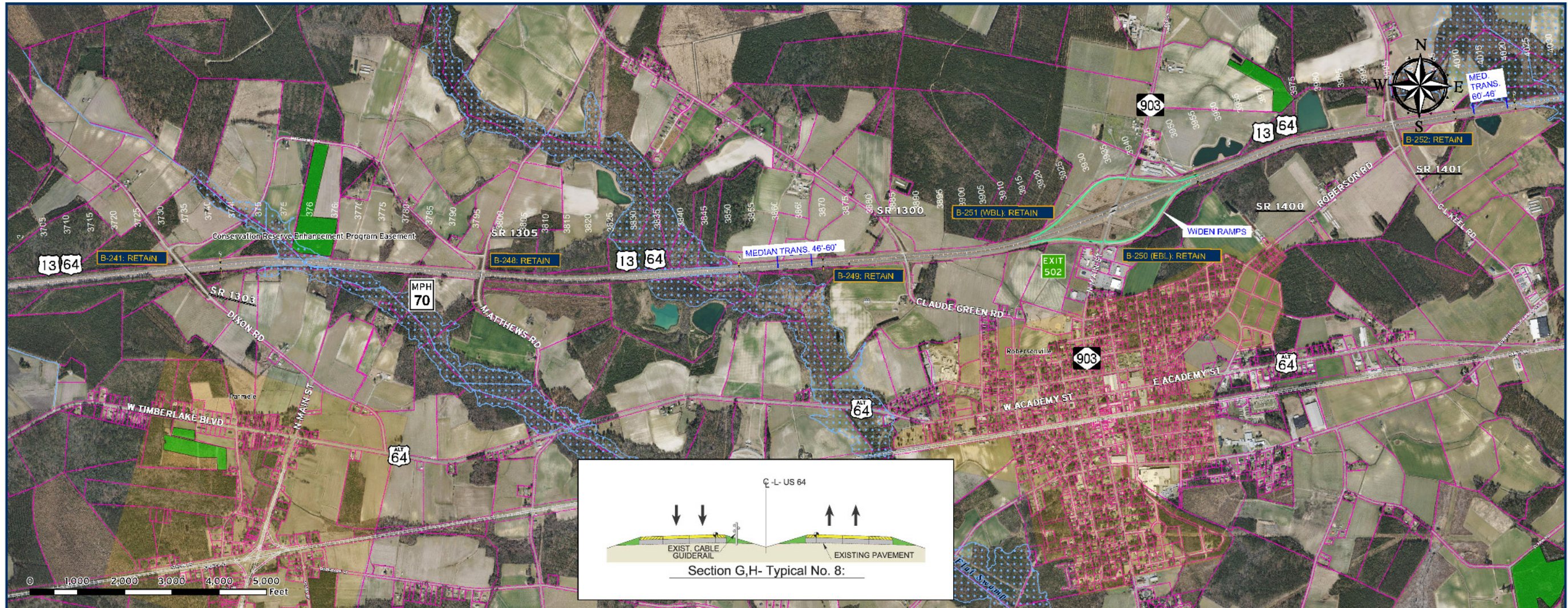
Conceptual Design Subject to Change without Notice  
 For Feasibility Study Purposes Only

**FS-1504A** SHEET 18 OF 22

**DESIGN REVIEW**

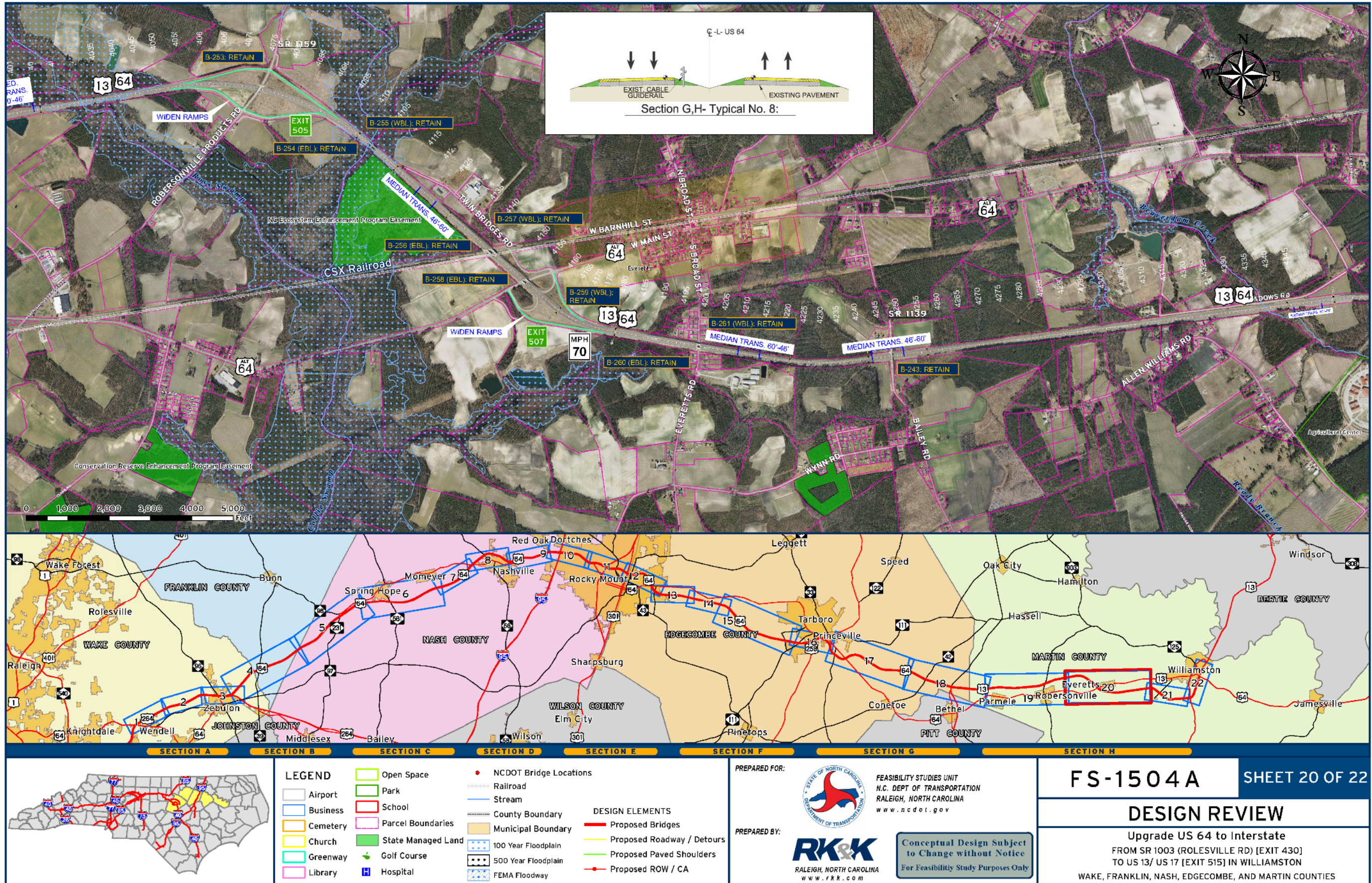
Upgrade US 64 to Interstate  
 FROM SR 1003 (ROLESVILLE RD) [EXIT 430]  
 TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON  
 WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES

# Study Corridor (cont.) – East of Rocky Mount



	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR:  FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 19 OF 22
			PREPARED BY:  RALEIGH, NORTH CAROLINA www.rkk.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

# Study Corridor (cont.) – East of Rocky Mount

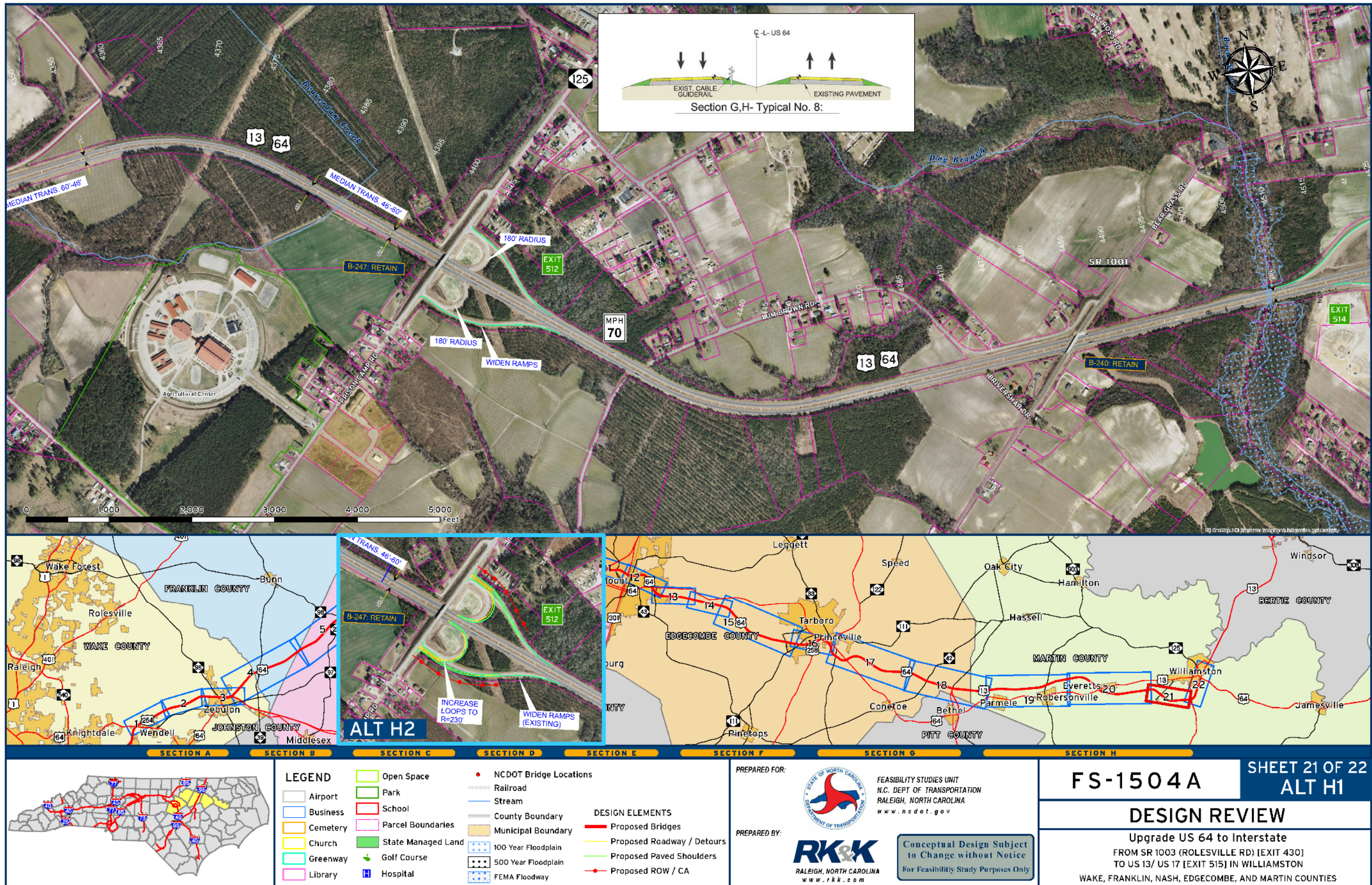


PREPARED FOR: FEASIBILITY STUDIES UNIT  
N.C. DEPT OF TRANSPORTATION  
RALEIGH, NORTH CAROLINA  
www.ncdot.gov

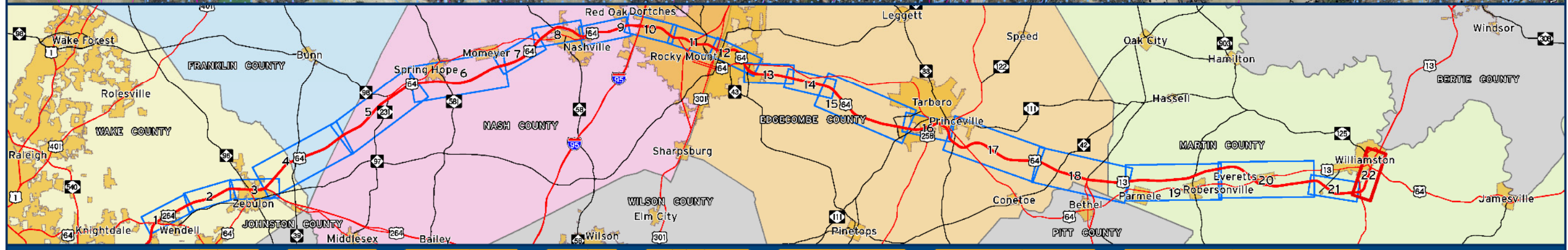
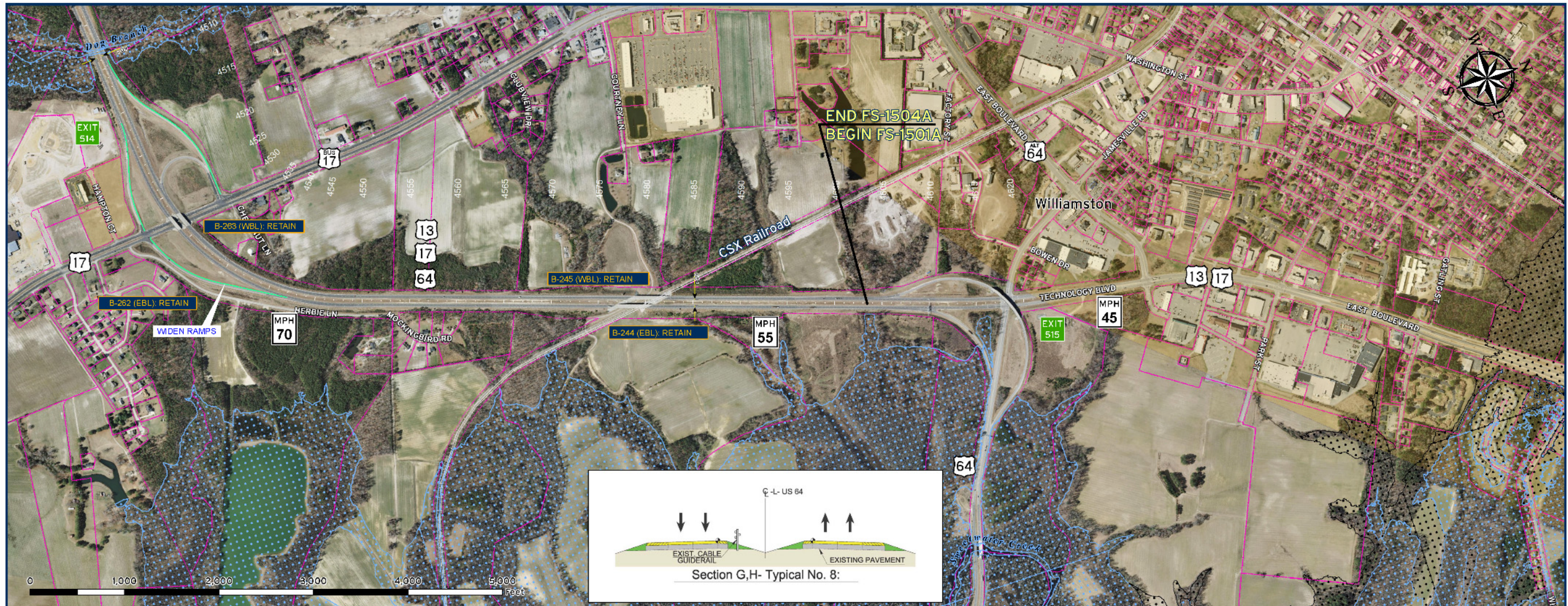
PREPARED BY: **RK&K**  
RALEIGH, NORTH CAROLINA  
www.rk&k.com

Conceptual Design Subject to Change without Notice  
For Feasibility Study Purposes Only

# Study Corridor (cont.) – East of Rocky Mount



# Study Corridor (cont.) – East of Rocky Mount



	<b>LEGEND</b> <ul style="list-style-type: none"> <li>Open Space</li> <li>Park</li> <li>Business</li> <li>Cemetery</li> <li>Church</li> <li>Greenway</li> <li>Library</li> <li>Airport</li> <li>School</li> <li>Parcel Boundaries</li> <li>State Managed Land</li> <li>Golf Course</li> <li>Hospital</li> <li>NCDOT Bridge Locations</li> <li>Railroad</li> <li>Stream</li> <li>County Boundary</li> <li>Municipal Boundary</li> <li>100 Year Floodplain</li> <li>500 Year Floodplain</li> <li>FEMA Floodway</li> </ul>	<b>DESIGN ELEMENTS</b> <ul style="list-style-type: none"> <li>Proposed Bridges</li> <li>Proposed Roadway / Detours</li> <li>Proposed Paved Shoulders</li> <li>Proposed ROW / CA</li> </ul>	PREPARED FOR: FEASIBILITY STUDIES UNIT N.C. DEPT OF TRANSPORTATION RALEIGH, NORTH CAROLINA www.ncdot.gov	<b>FS-1504A</b> SHEET 22 OF 22 <b>DESIGN REVIEW</b> Upgrade US 64 to Interstate FROM SR 1003 (ROLESVILLE RD) [EXIT 430] TO US 13/ US 17 [EXIT 515] IN WILLIAMSTON WAKE, FRANKLIN, NASH, EDGECOMBE, AND MARTIN COUNTIES
			PREPARED BY: RALEIGH, NORTH CAROLINA www.rkk.com	Conceptual Design Subject to Change without Notice For Feasibility Study Purposes Only

## *Next Steps for FS-1504A:*

- **Update (Phase 2) Costs, Impacts**
- **Receive Right-of-Way cost estimates (New Pieces)**
- **Prepare Feasibility Study Report (Fall '16)**



**Questions on FS-1504A:**

Contact me (Brian Peeler) at (919) 653.7351 [bpeeler@rkk.com](mailto:bpeeler@rkk.com) or

Lynnise Hawes at (919) 707.4662 [lmhawes@ncdot.gov](mailto:lmhawes@ncdot.gov)



*Thank you.*

