

HALIFAX COUNTY LINE

BRUNSWICK COUNTY LINE

US 58 Arterial Preservation Plan Figure 21 Intersections & Median Crossovers Mecklenburg County

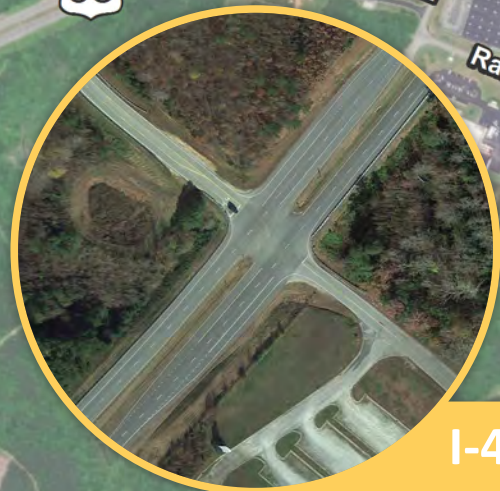
I-# - Intersection #
C-# - Crossover #

Intersection 47: Goods Ferry Rd with US 58
Recommendation: Reconfigure intersection to Continuous Green-T (CGT).
Cost: \$1.0M to \$1.5M

Intersection 48: Maple Ln with US 58
Recommendation: Construct turn right-turn lanes on Maple Lane
Cost: \$0.3M to \$0.6M

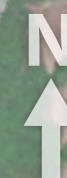
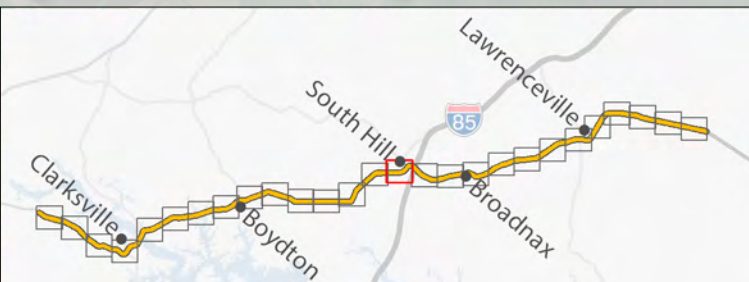


I-47



I-48

● No Recommendation
● Recommended Removal
● Minor Improvement
● Major Improvement



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US 58 Arterial Preservation Plan Figure 22 Intersections & Median Crossovers Mecklenburg County

I-# - Intersection #
C-# - Crossover #

Intersection 49: Country Ln with US 58
Recommendation: See Figure 23
Cost: \$1.9M to \$3.1M

Crossover 42: Crowder St with US 58
Recommendation: See Figure 23
Cost: Intersection 53: High St with US 58

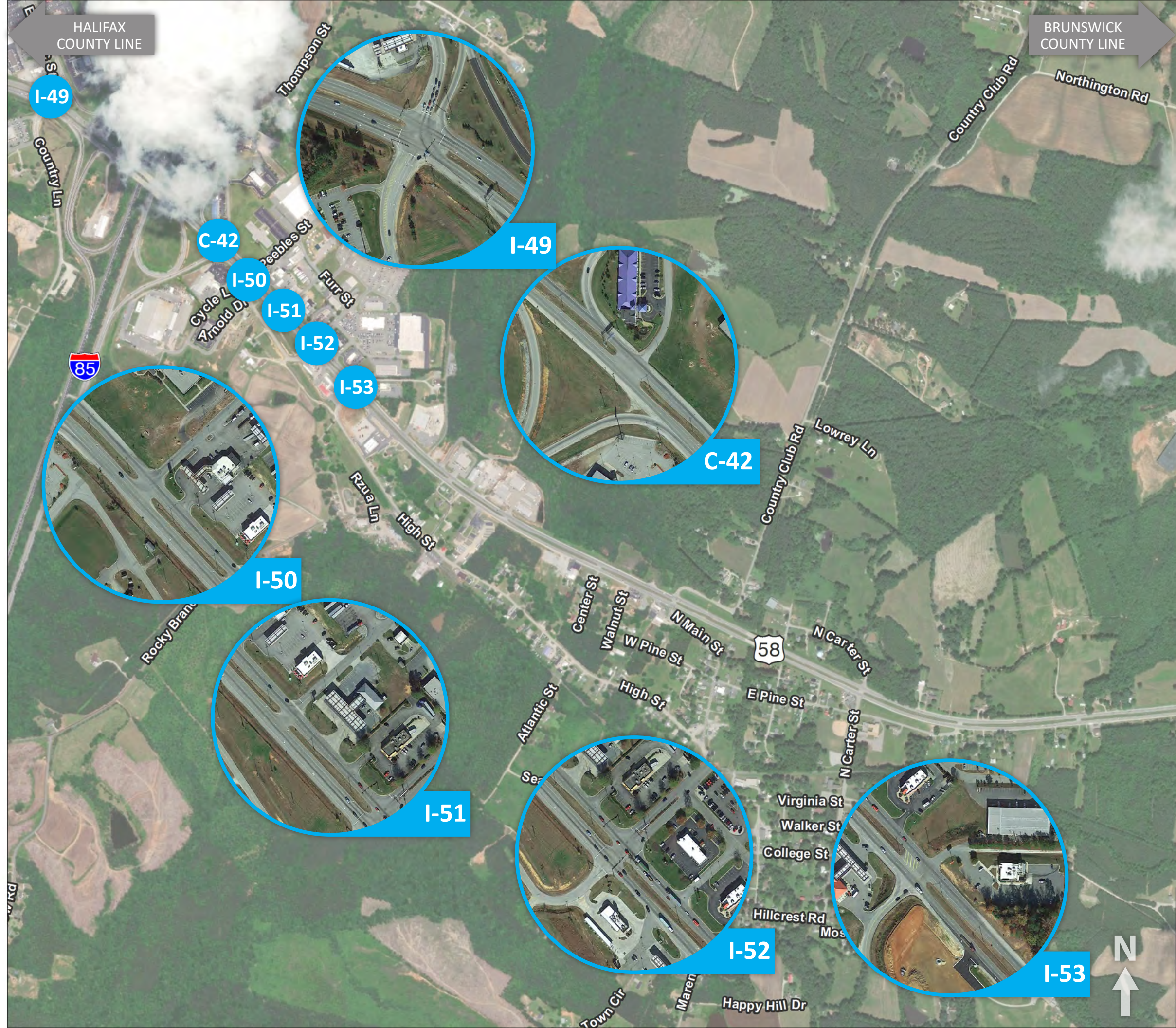
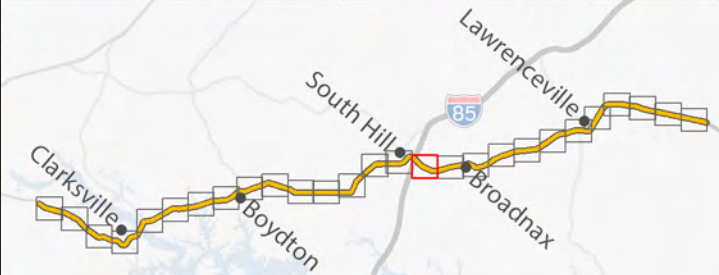
Intersection 50: Thompson St with US 58
Recommendation: See Figure 23
Cost: Intersection 53: High St with US 58

Intersection 51: Peebles St with US 58
Recommendation: See Figure 23
Cost: Intersection 53: High St with US 58

Intersection 52: Cycle Ln with US 58
Recommendation: See Figure 23
Cost: Intersection 53: High St with US 58

Intersection 53: High St with US 58
Recommendation: See Figure 23
Cost: \$6.4M to \$8.3M

● No Recommendation
● Recommended Removal
● Minor Improvement
● Major Improvement



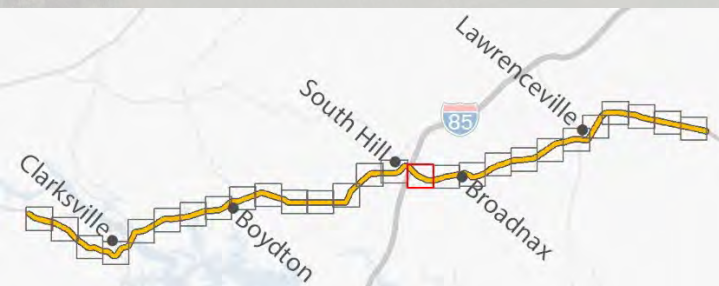


SEE FIGURE 25
FOR I-85 INTERCHANGE

SEE FIGURE 24
FOR COUNTRY LN

SEE FIGURE 26
FOR THOMPSON ST TO
HIGH ST SEGMENT

**Route 58 Arterial Management Plan
Figure 23
South Hill Area Summary**



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Route 58 Arterial Management Plan

Figure 24

Intersection #49: US 58 with Country Ln Town of South Hill

Recommendation: Reconfigure the existing intersection and traffic signal to a three-phase signal. Permit only through and right-turn movements on US 58. Permit only left and right-turn movements from US 58 BUS southbound onto US 58 and full movements from Country Ln northbound. Construct U-turn area west of existing intersection to permit movements destined to Country Ln from US 58 westbound or US 58 BUS southbound. Eradicate existing I-85 off ramp onto US 58 and construct continuous flow right-turn lane from US 58 westbound onto US 58 BUS. Eastbound US 58 left-turns to be managed at Maple Lane or interchange (depending on interchange configuration).

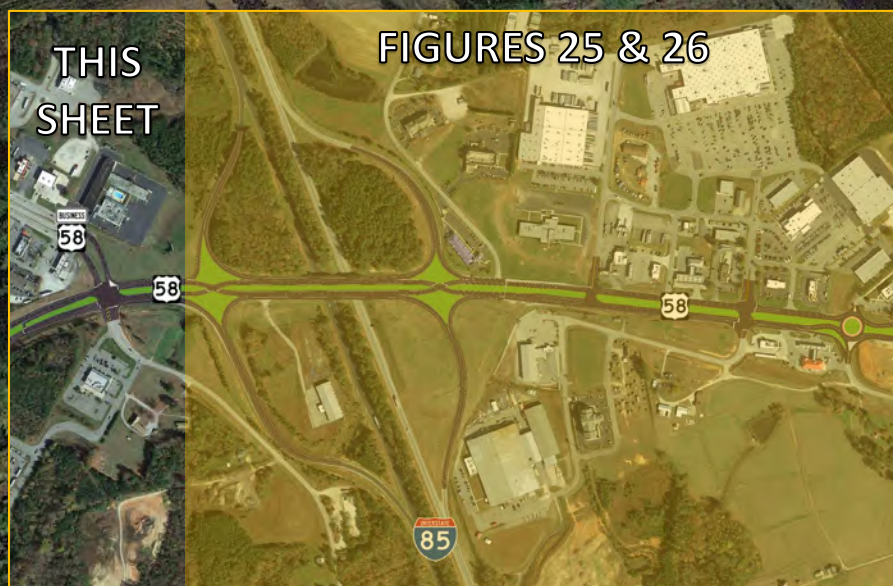
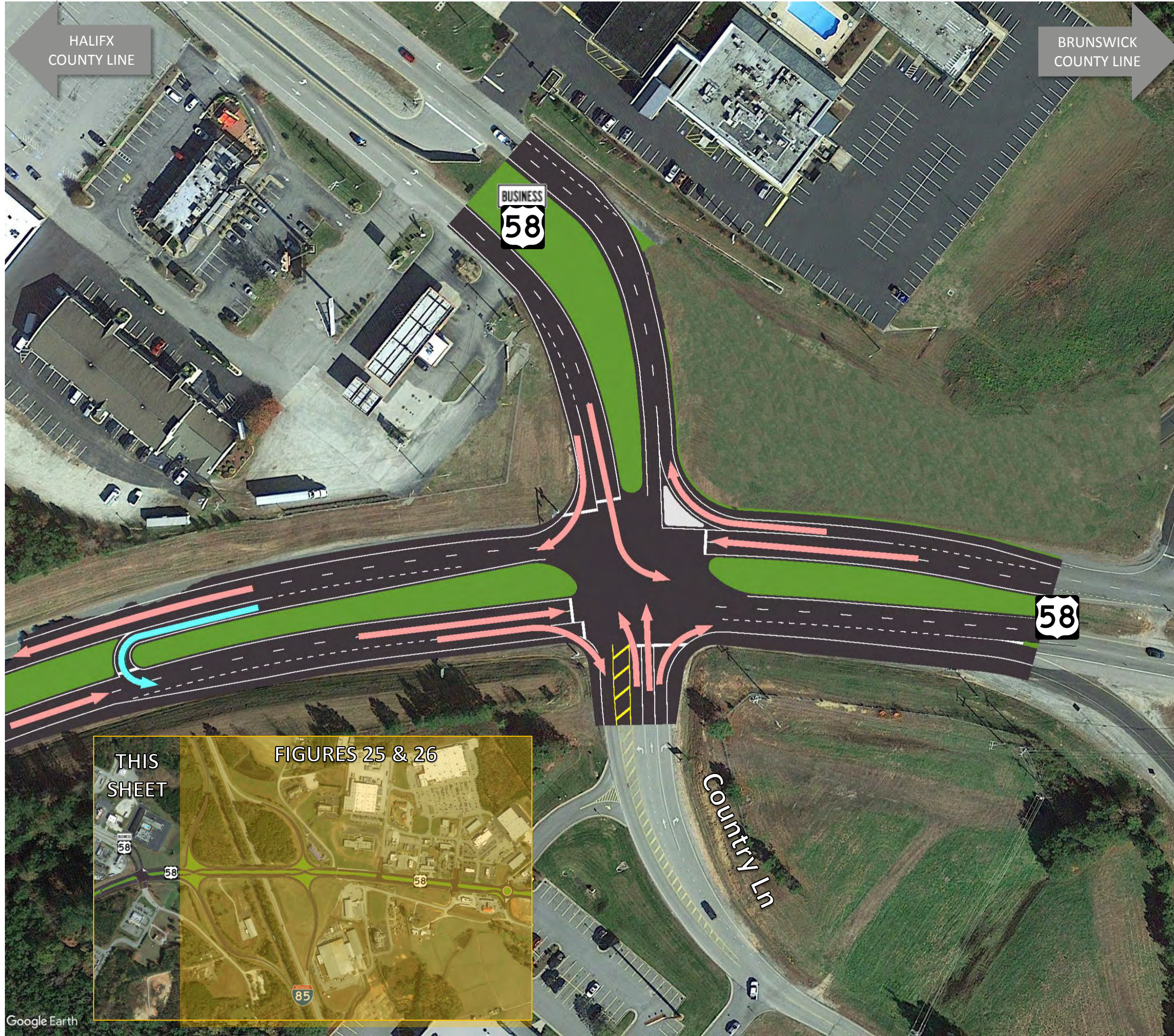
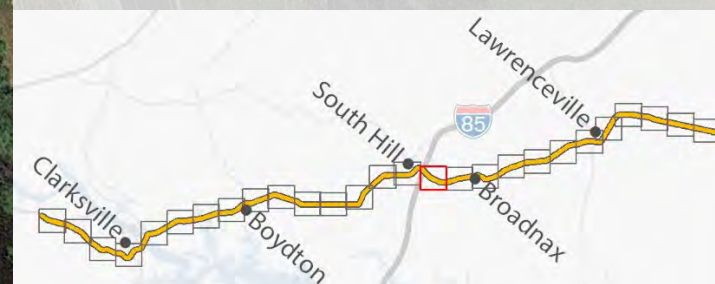
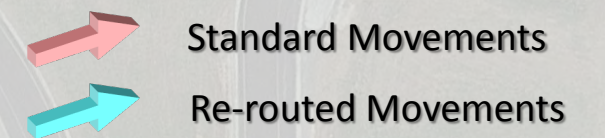
ROW Impacts: All improvements are within the ROW

Improvement Type: Congestion Mitigation, Economic Development, Safety, Travel Time Preservation

Operations:

2040 Future Delay (sec - LOS)	No Build	Build
AM	24.6-C	17.4-C
PM	30.4-C	20.4-C

Cost: \$1.9M to \$3.1M



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Route 58 Arterial Management Plan Figure 25 I-85 Interchange Town of South Hill

Recommendation: Reconfigure interchange to Diverging Diamond Interchange or a Roundabouts Interchange (Inset). Interchange will require an Interchange Modification Report (IMR) to be submitted to the FHWA to determine ultimate configuration.

ROW Impacts: All improvements are within the ROW

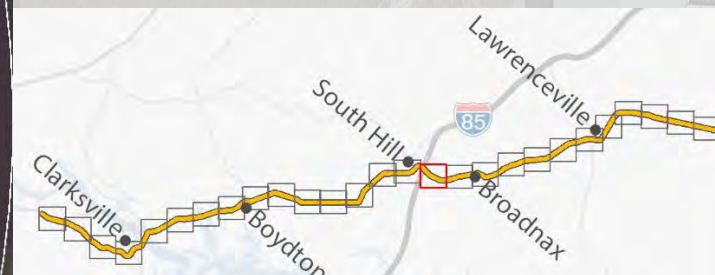
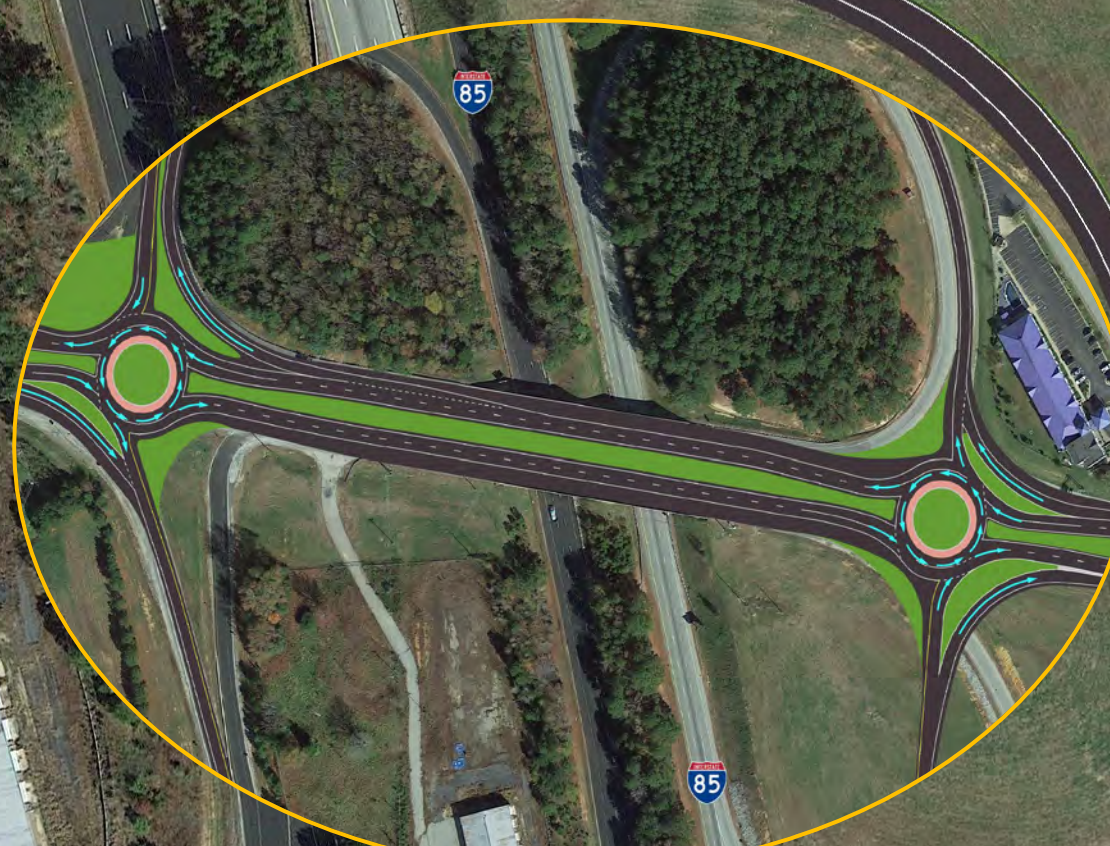
Improvement Type: Economic Development, Safety, Travel Time Preservation

Traffic Operations & Safety:

Traffic Operations Reduced travel times for vehicles due to reduced weave and merge areas.

Safety Decreased risk of side-swipes and rear end crashes on both I-85 and US 58.

Cost: \$7.7M to \$28.0M



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**Route 58 Arterial Management Plan
Figure 26
US 58 Eastern Corporate Limits
Town of South Hill**

Interim Recommendation: Reconfigure Thompson St intersection to right-in/right-out only, improve storage length of eastbound US 58 left-turn lane onto Peebles St, reconfigure Crowder St intersection to right-in/right-out only, reconfigure Cycle Lane to a two-phase signal, and construct a roundabout at the intersection of High St. Construct inter-parcel connections to maintain access between Thompson St and Peebles St, and between Cycle Ln and High St. Town maintained streets should be investigated further to determine pavement condition and capacity improvements to maintain efficient traffic flow.

Long-term Recommendation: As development occurs, additional improvements will be needed at the intersection of Peebles St and US 58. These improvements may require reviews and approvals by district, state, and FHWA officials. The roundabout at High St will need to be reconfigured to remove northbound left and thru movements to maintain capacity of the corridor.

ROW Impacts: All improvements on US 58 are within the ROW. Inter-parcel connections and Town maintained street improvement may require significant ROW acquisition.


Improvement Type: Economic Development, Safety, Travel Time Preservation

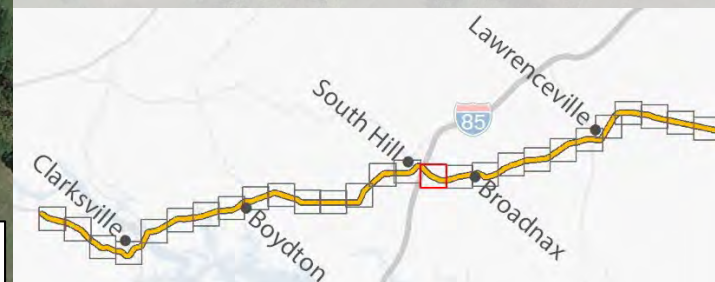
Traffic Operations:

2040 Travel Times (min)	Eastbound US 58		Westbound US 58	
	No Build	Build	No Build	Build
AM	1:02	0:54	1:02	0:58
PM	1:32	1:17	1:38	1:26

US 58 Improvements: \$6.4M to \$8.3M

Town Street Improvements: \$1.6M to \$10.0M

 Standard Movements



Proposed Interparcel Connection

Interim Improvements Shown

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US 58 Arterial Preservation Plan Figure 27 Intersections & Median Crossovers Mecklenburg County

I-# - Intersection #
C-# - Crossover #

Crossover 43:
Recommendation: Remove crossover
Cost: \$0.2M to \$0.3M

Crossover 44:
Recommendation: No recommendation
Cost: \$0.3M to \$0.5M

Crossover 45:
Recommendation: See Figure 28
Cost: : Not Applicable

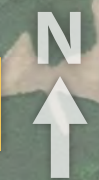
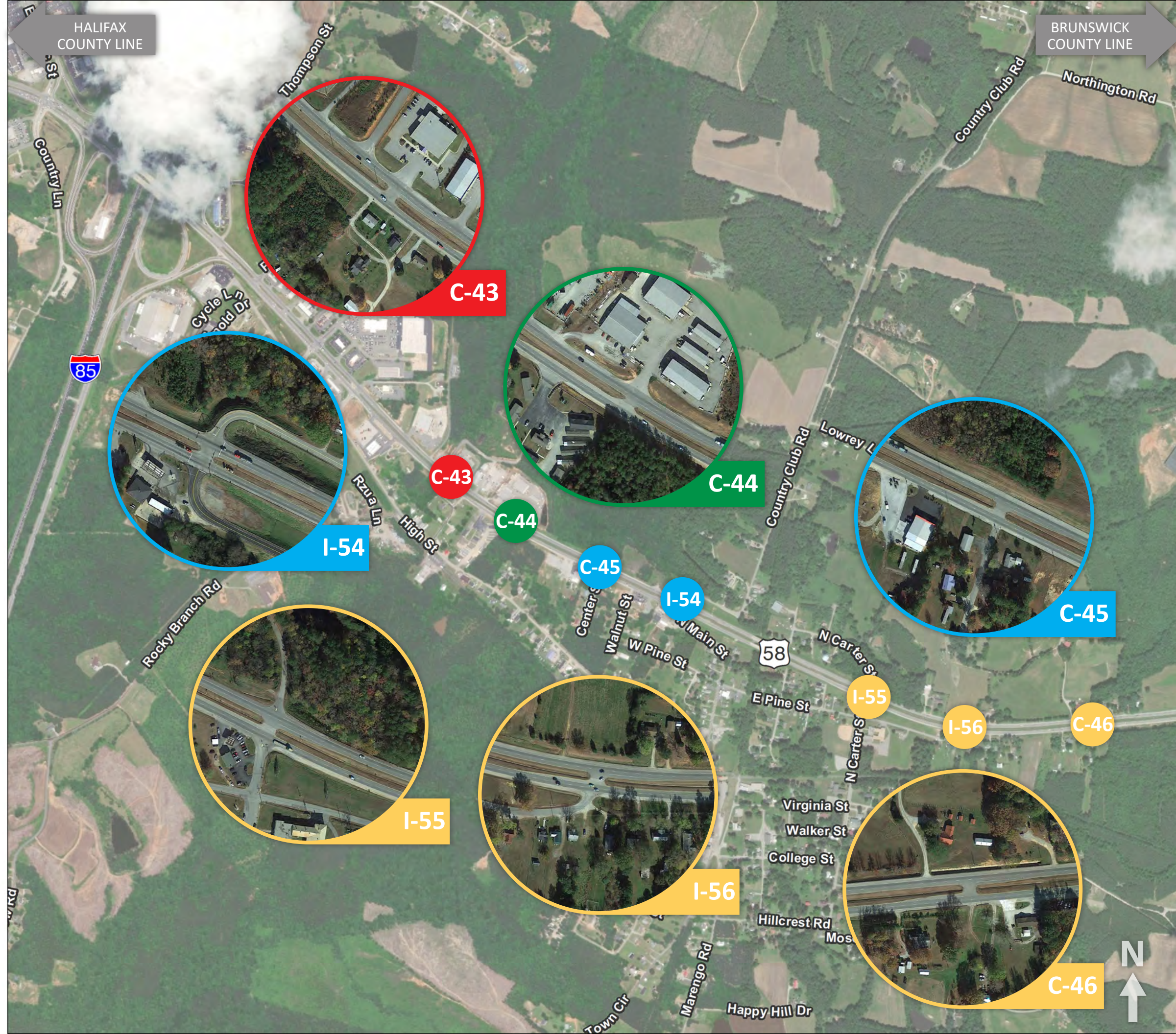
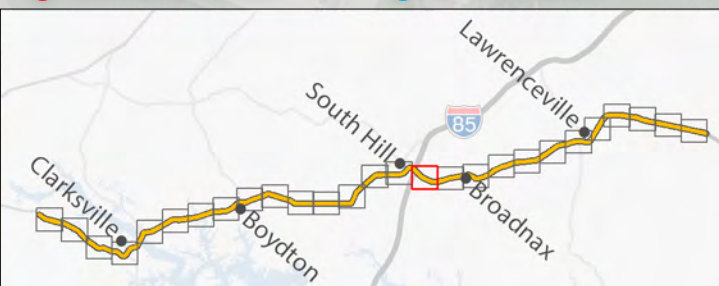
Intersection 54: N Main St with US 58
Recommendation: See Figure 28
Cost: \$0.7M to \$1.0M

Intersection 55: S Carter St with US 58
Recommendation: Reconfigure intersection to permit US 58 left-turn movements.
Cost: \$0.1M to \$0.2M

Intersection 56: E Pine St with US 58
Recommendation: Lengthen all existing turn lanes and construct eastbound right-turn lane on US 58.
Cost: \$0.7M to \$1.0M

Crossover 46:
Recommendation: Lengthen existing left-turn lanes on US 58
Cost: \$0.4M to \$0.5M

● No Recommendation
● Recommended Removal
● Minor Improvement
● Major Improvement



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Route 58 Arterial Management Plan Figure 28 Intersection #54: N Main St with US 58 Mecklenburg County

Recommendation: Reconfigure the existing intersection and traffic signal to a two-phase signal. Permit only through and right-turn movements on US 58. Permit only right-turn movements from Country Club Rd onto US 58 and full movements from northbound N Main St to US 58. Reconfigure Crossover #45 to U-turn area for vehicles destined eastbound US 58 or the Town of LaCrosse. Eastbound US 58 vehicles destined to Country Club Road can use existing Crossover #46.



ROW Impacts: All improvements are within the ROW

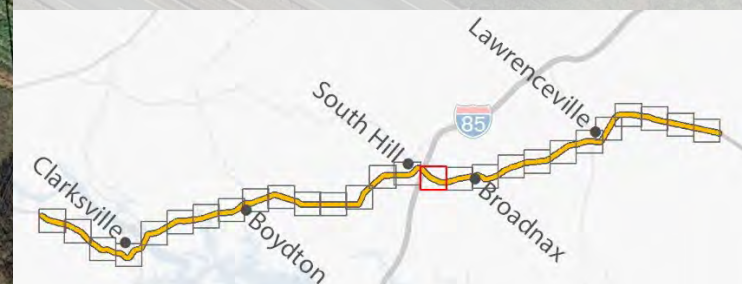
Improvement Type: Safety, Travel Time Preservation

Traffic Operations & Safety:

Traffic Operations	Reduced delay times for vehicles traveling on US 58 and N Main St.
Safety	Significant reduction in risk of angle crashes and reduced risk of rear end crashes.

Cost: \$0.7M to \$1.1M

-  Standard Movements
-  Re-routed Movements



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US 58 Arterial Preservation Plan Figure 29 Intersections & Median Crossovers Mecklenburg County

I-# - Intersection #
C-# - Crossover #

Crossover 47:
Recommendation: Lengthen existing westbound turn lane on US 58.
Cost: \$0.4M to \$0.6M

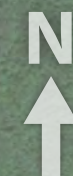
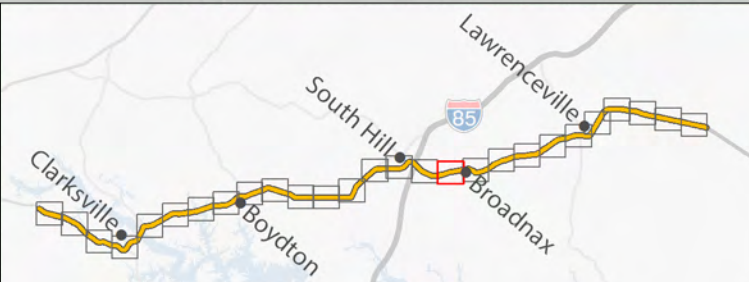
Crossover 48:
Recommendation: Lengthen all existing turn lanes on US 58.
Cost: \$0.4M to \$0.5M

Intersection 57: Regional Airport Rd with US 58
Recommendation: Reconfigure intersection to directional median permitting left turns and U-Turns from westbound US 58. Lengthen existing westbound left-turn lane and eastbound right-turn lane on US 58
Cost: \$0.5M to \$0.9M

Intersection 58: Brown Town Rd with US 58
Recommendation: Reconfigure intersection to directional median permitting left turns and U-Turns from eastbound US 58. Lengthen existing eastbound left-turn lane and westbound right-turn lane on US 58
Cost: \$0.5M to \$0.9M

Crossover 49:
Recommendation: Remove crossover
Cost: \$0.2M to \$0.3M

● No Recommendation
● Recommended Removal
● Minor Improvement
● Major Improvement



MECKLENBURG COUNTY LINE

GREENSVILLE COUNTY LINE

US 58 Arterial Preservation Plan Figure 30 Intersections & Median Crossovers Brunswick County

I-# - Intersection #
C-# - Crossover #

Intersection 59: Main St with US 58
Recommendation: Construct eastbound right-turn lane and westbound left-turn lane on US 58.
Cost: \$2.6M to \$3.8M

Intersection 60: Dornia Ave with US 58
Recommendation: Construct westbound right-turn lane and eastbound left-turn lane on US 58.
Cost: \$2.6M to \$3.8M

Crossover 50:
Recommendation: Remove crossover.
Cost: \$0.2M to \$0.3M

Crossover 51:
Recommendation: No recommendation
Cost: Not Applicable

Crossover 52:
Recommendation: Remove crossover
Cost: \$0.2M to \$0.3M

Crossover 53:
Recommendation: No recommendation
Cost: Not Applicable

Crossover 54:
Recommendation: No recommendation
Cost: Not Applicable

● No Recommendation
● Recommended Removal
● Minor Improvement
● Major Improvement

