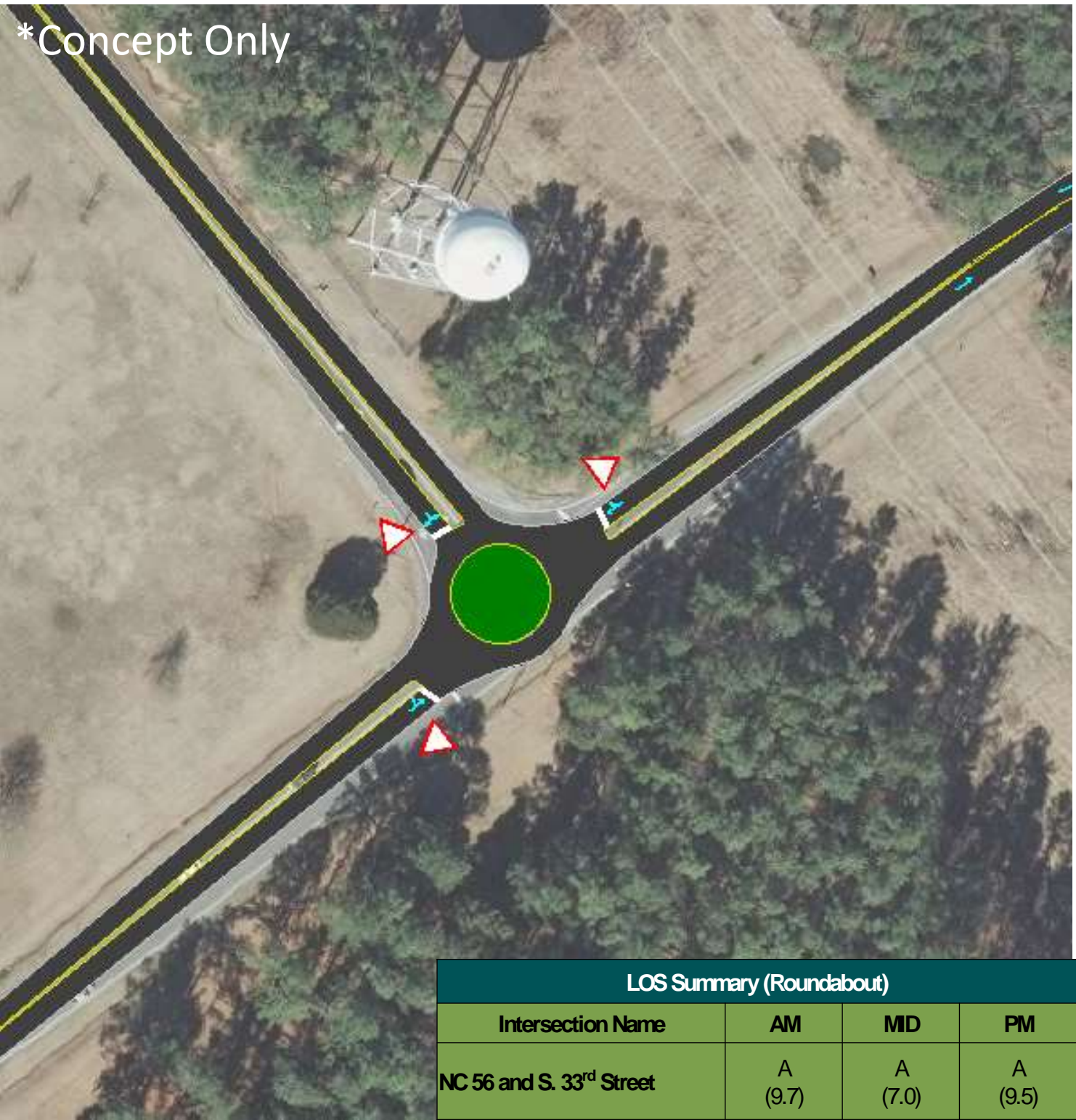


Options for the 33rd Street Intersection



Roundabout Option



Extend Left-Turn Lane

Comments

Comments

Option for the I-85 and NC 56 Interchange



Five Lane Bridge

- Four through lanes across bridge
- Back-to-back left-turn lanes
- Requires widening of the bridge

Comments

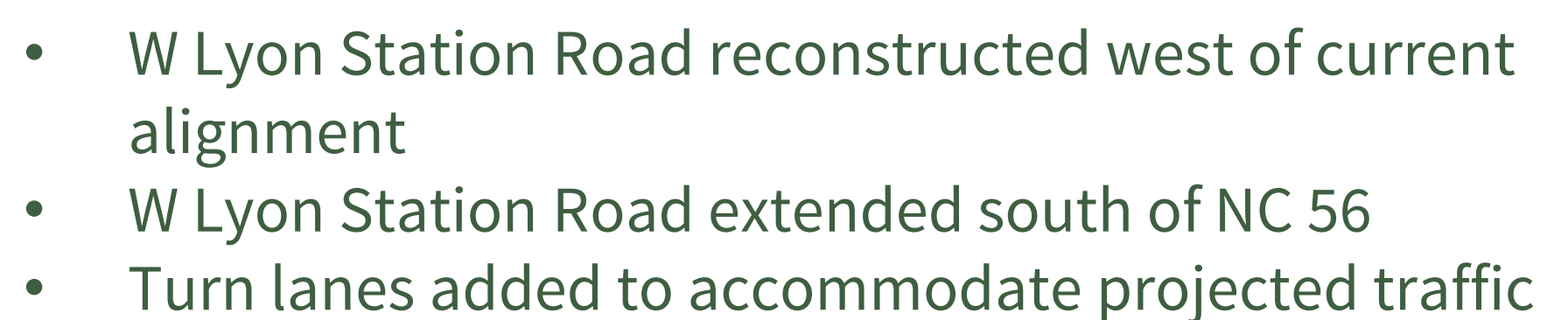


Four Lane Bridge

- Three through lanes across bridge
- Back-to-back left-turn lanes
- Avoids widening of the bridge

Comments

NC 56 and W Lyon Station Rd	C (26.0)	C (24.2)	C (26.7)
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Comments	

*Concept Only

LOS Summary			
Intersection Name	AM (15.7)	MID (20.5)	PM (32.1)
NC 56 and E Lyon Station Rd	B (15.7)	C (20.5)	C (32.1)

Intersection Name	AM	MD	PM
NC 56 and E Lyon Station Rd	B (15.7)	C (20.5)	C (32.1)

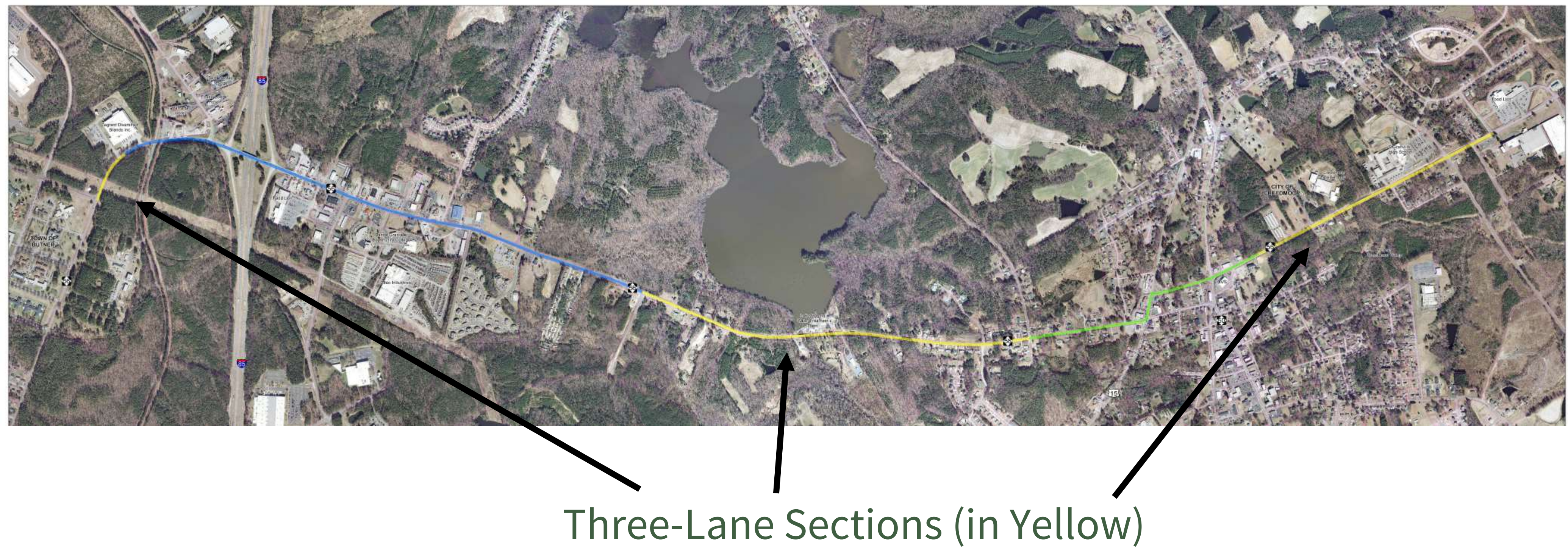
- Four through lanes
- Left-in, right-out access

Comments



Comments	

A model of future traffic conditions based on expected growth in people and jobs that may occur in the area by 2040 showed some sections of NC 56 needing four lanes in order to function. However, much of NC 56 could be widened to only three lanes and still have good traffic operations. The three-lane sections are at the eastern and western ends of the corridor and in the middle, around Lake Rogers.



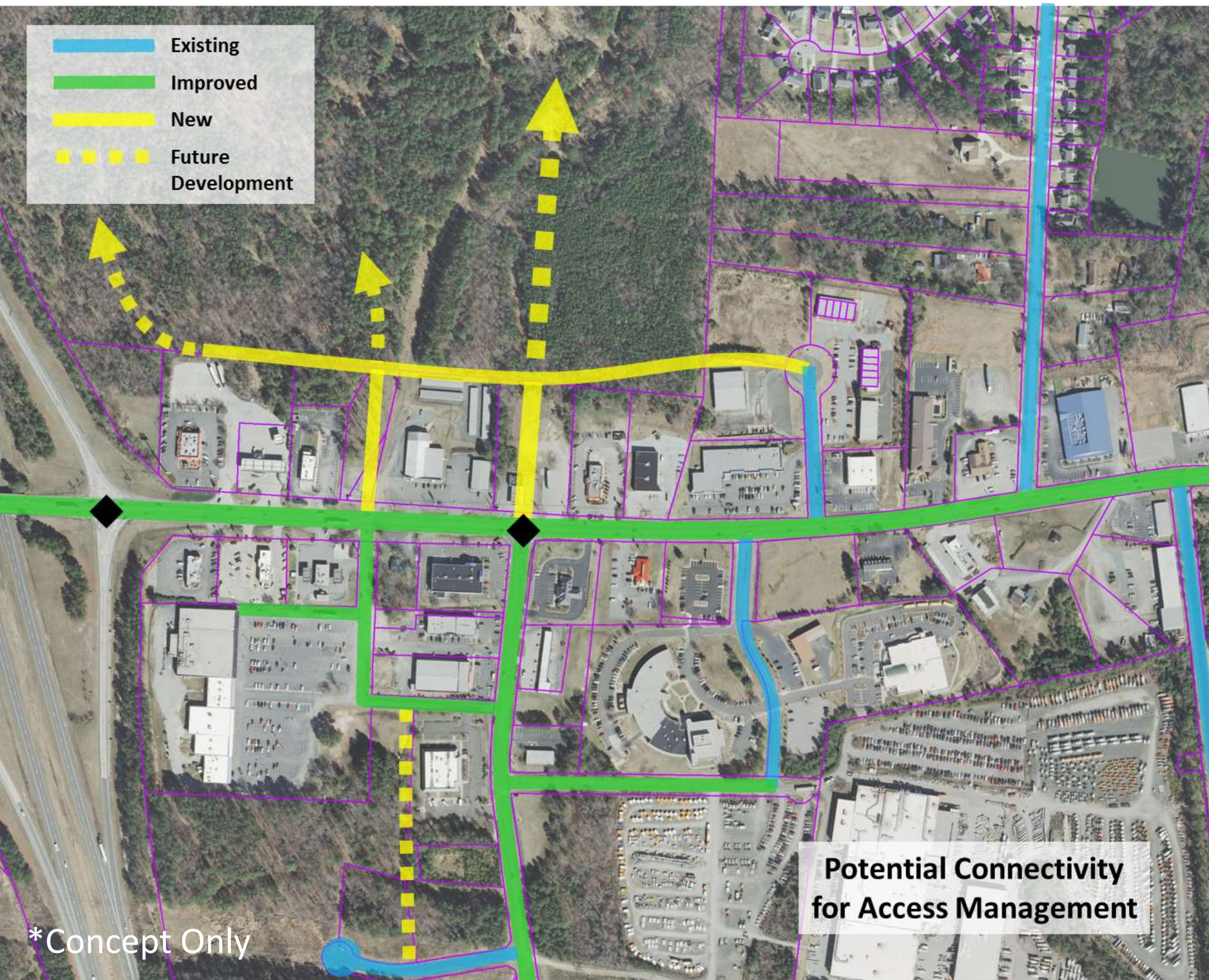
Lake Rogers Area
shown with center turn lane



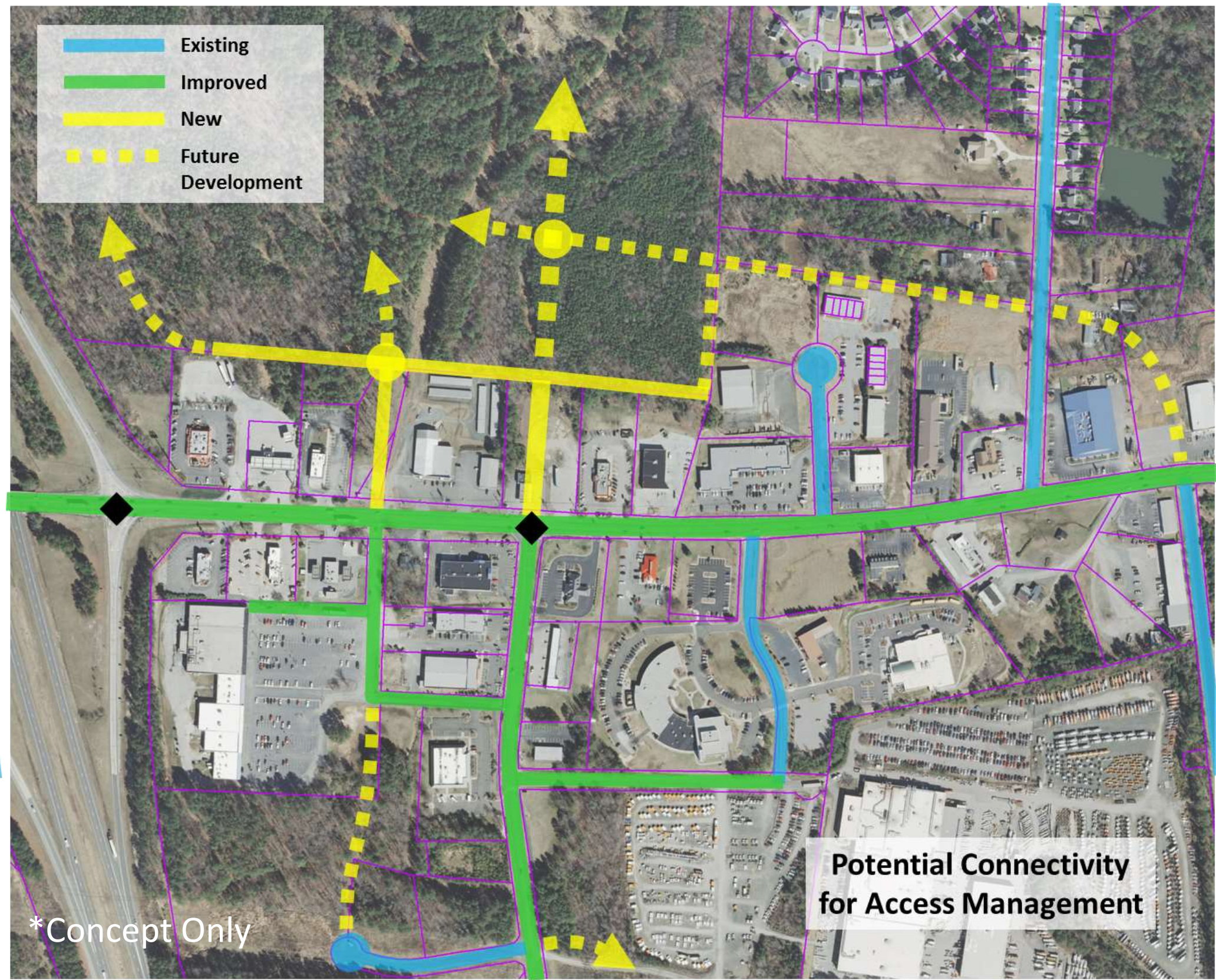
Two-Lane with Median Cross-Section
areas without many driveways
could have a planted median
instead of a center turn lane

Comments

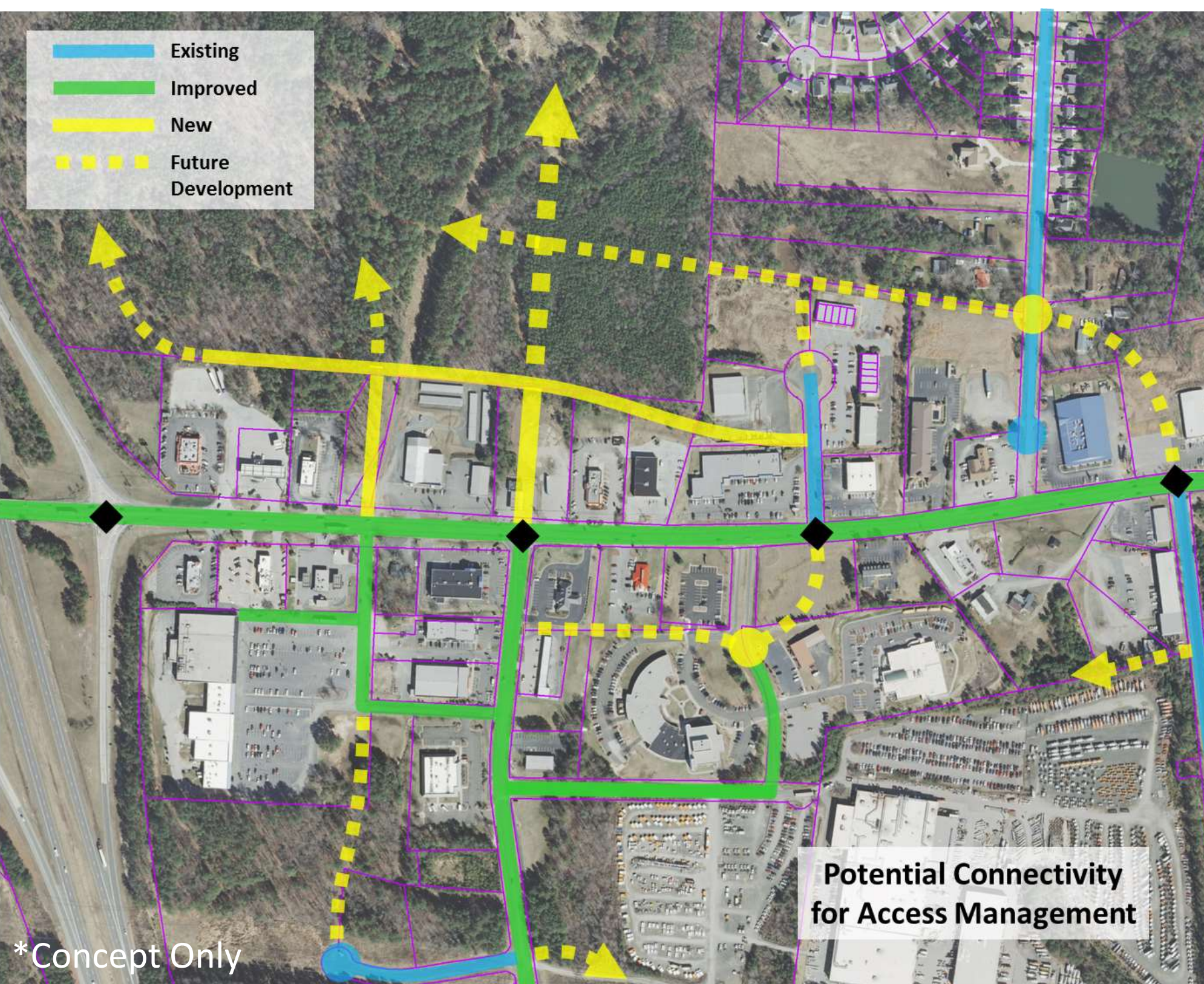
Options for street connectivity to help with business access



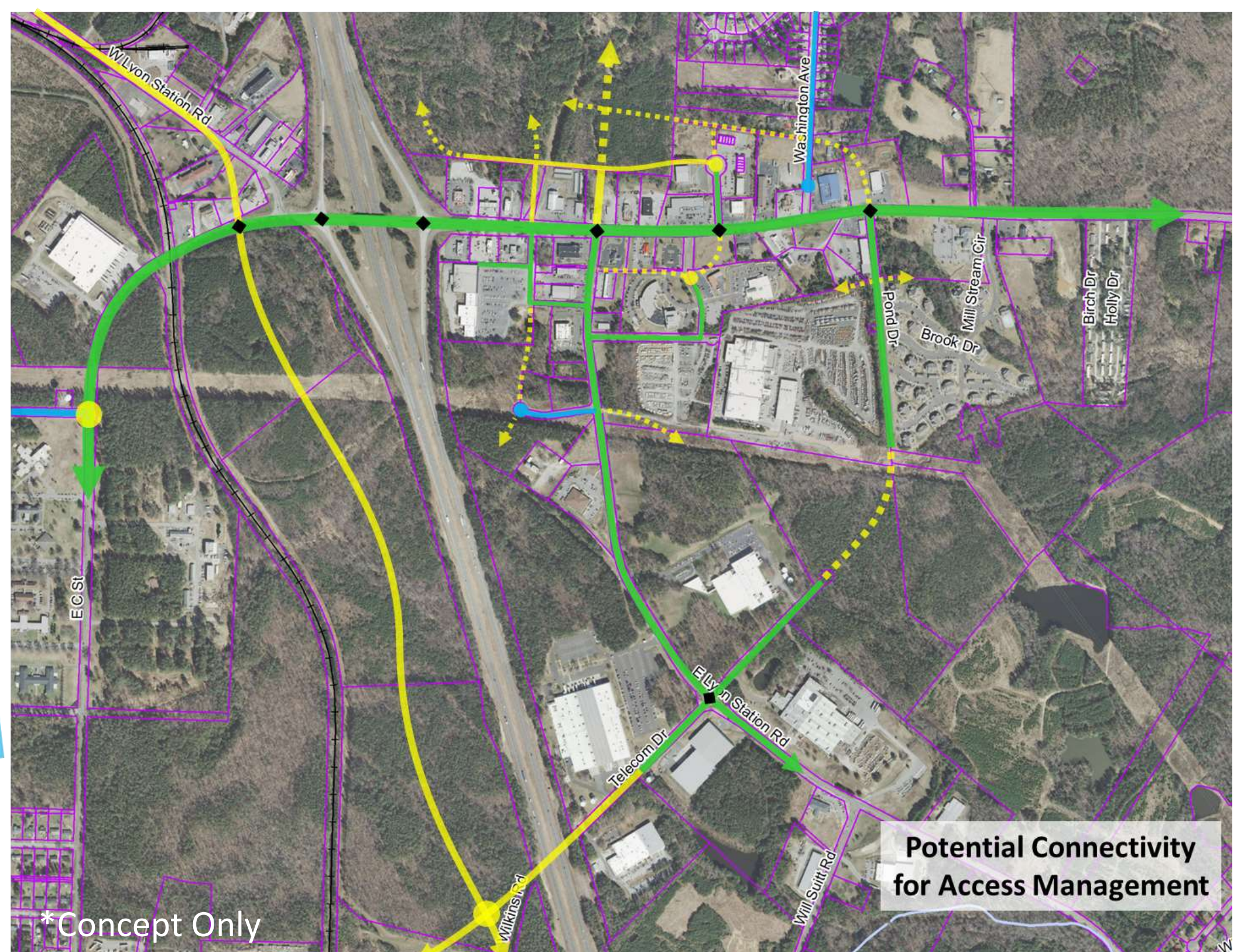
Comments



Comments



Comments



Comments

LOS Summary			
Intersection Name	AM	MID	PM
W Lake Rd & US 15	C (27.0)	C (21.2)	D (39.0)
NC 56 and N Durham Ave/Lake Rd	B (13.2)	B (15.3)	B (11.0)



*Concept Only

Signalized US 15 / NC 56

Comments

LOS Summary			
Intersection Name	AM	MID	PM
NC 56 and N Durham Ave/Lake Rd	B (12.6)	A (5.6)	A (6.5)



*Concept Only

US 15 / NC 56 Roundabout

Comments



*Concept Only

LOS Summary			
Intersection Name	AM	MID	PM
NC 56 & W Lake Rd	B (11.9)	A (9.8)	B (14.4)
W Lake Rd & US 15	C (23.1)	C (20.9)	C (23.3)
NC 56 and N Durham Ave/Lake Rd	C (26.3)	B (18.3)	B (17.3)

Signalized US 15 / NC 56,
with extension

Comments



*Concept Only

LOS Summary			
Intersection Name	AM	MID	PM
NC 56 and N Durham Ave/Lake Rd	C (17.3)	A (7.2)	C (18.0)

US 15 / NC 56 Roundabout, with
extension

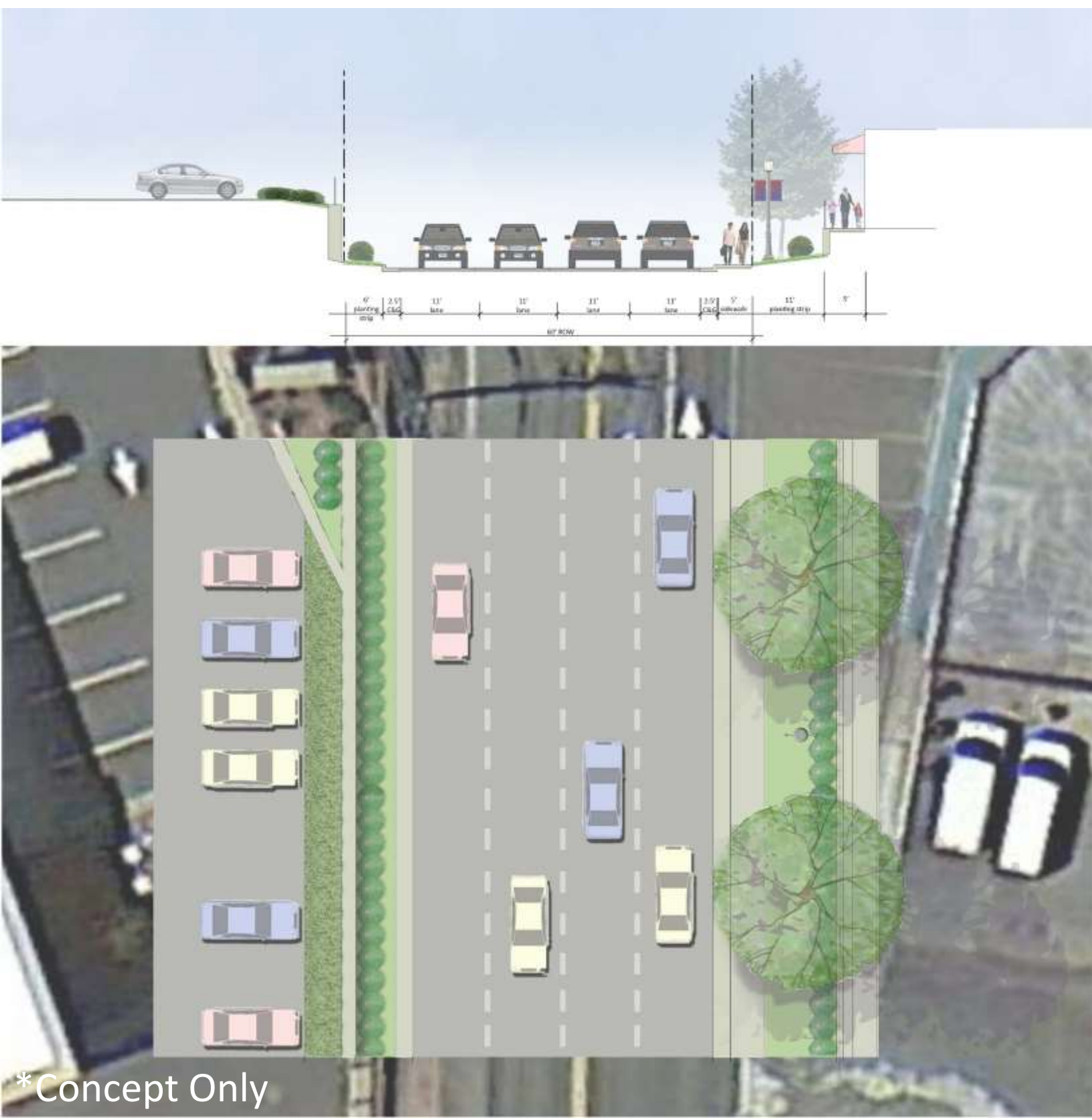
Comments

Potential Cross-Sections



NC 56 east of US 15

Comments



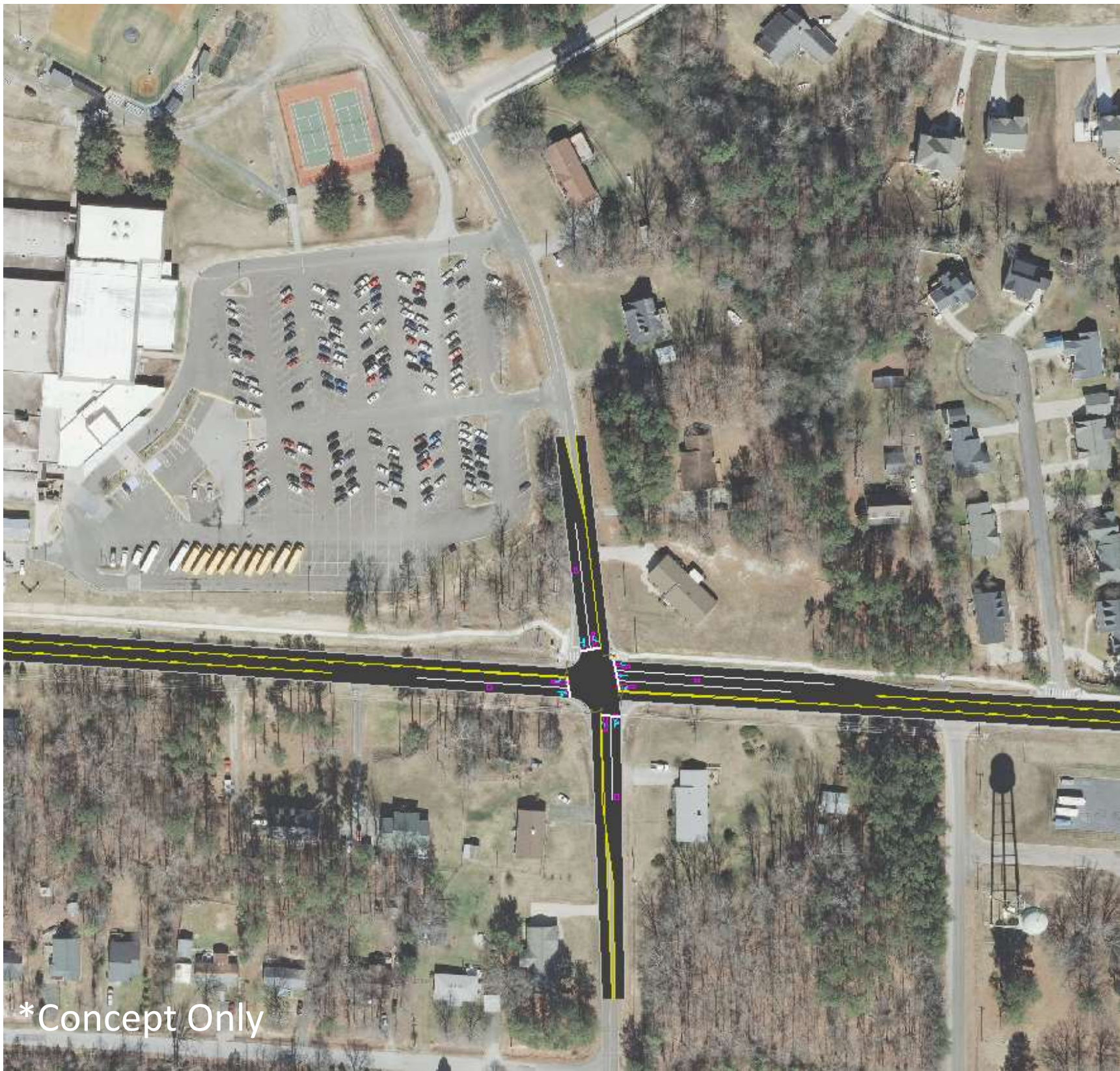
NC 56 east of NC 50

Comments



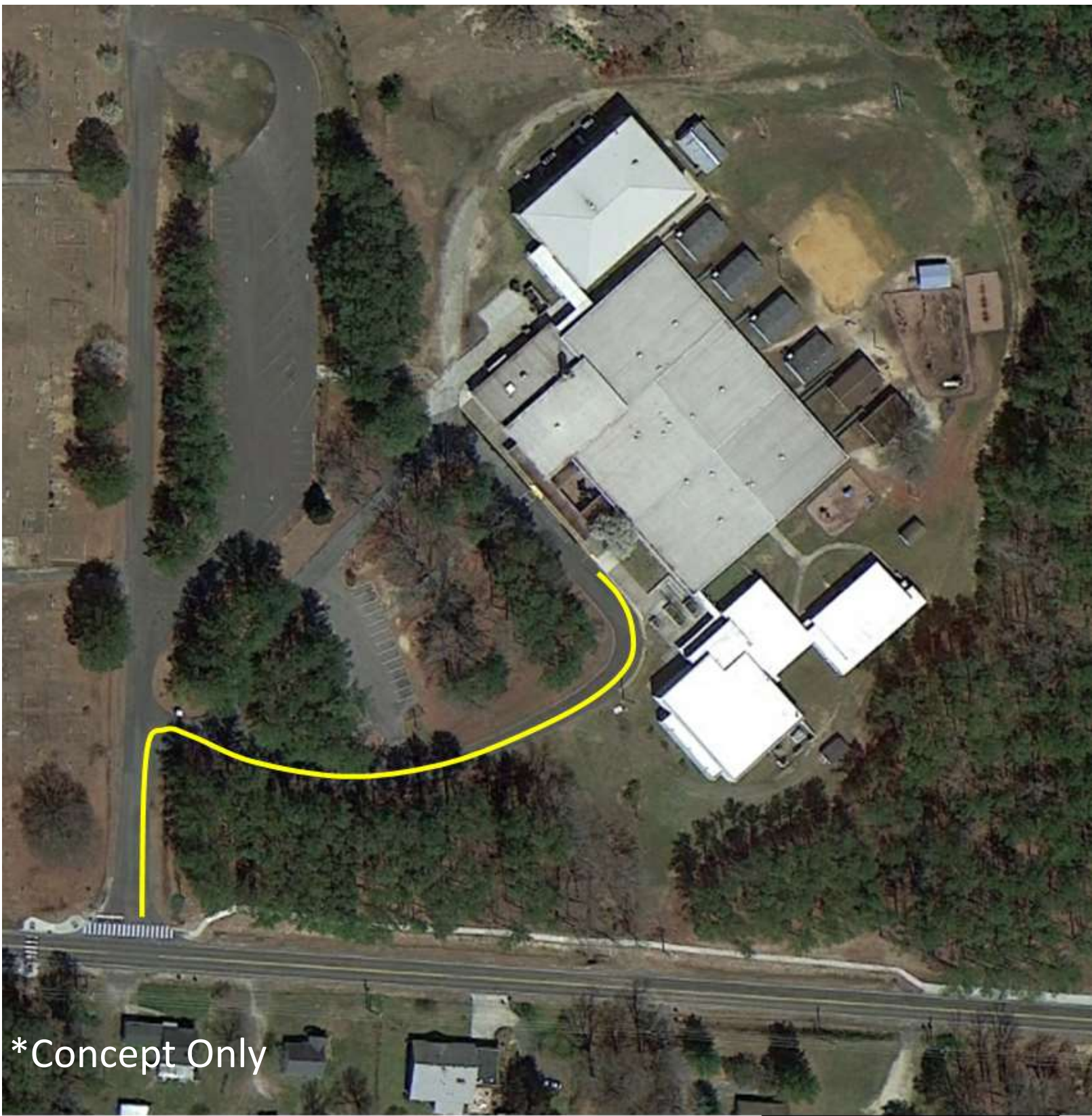
NC 56 east of NC 50

Comments



Option for Crescent Dr /
Hawley School Rd

Comments

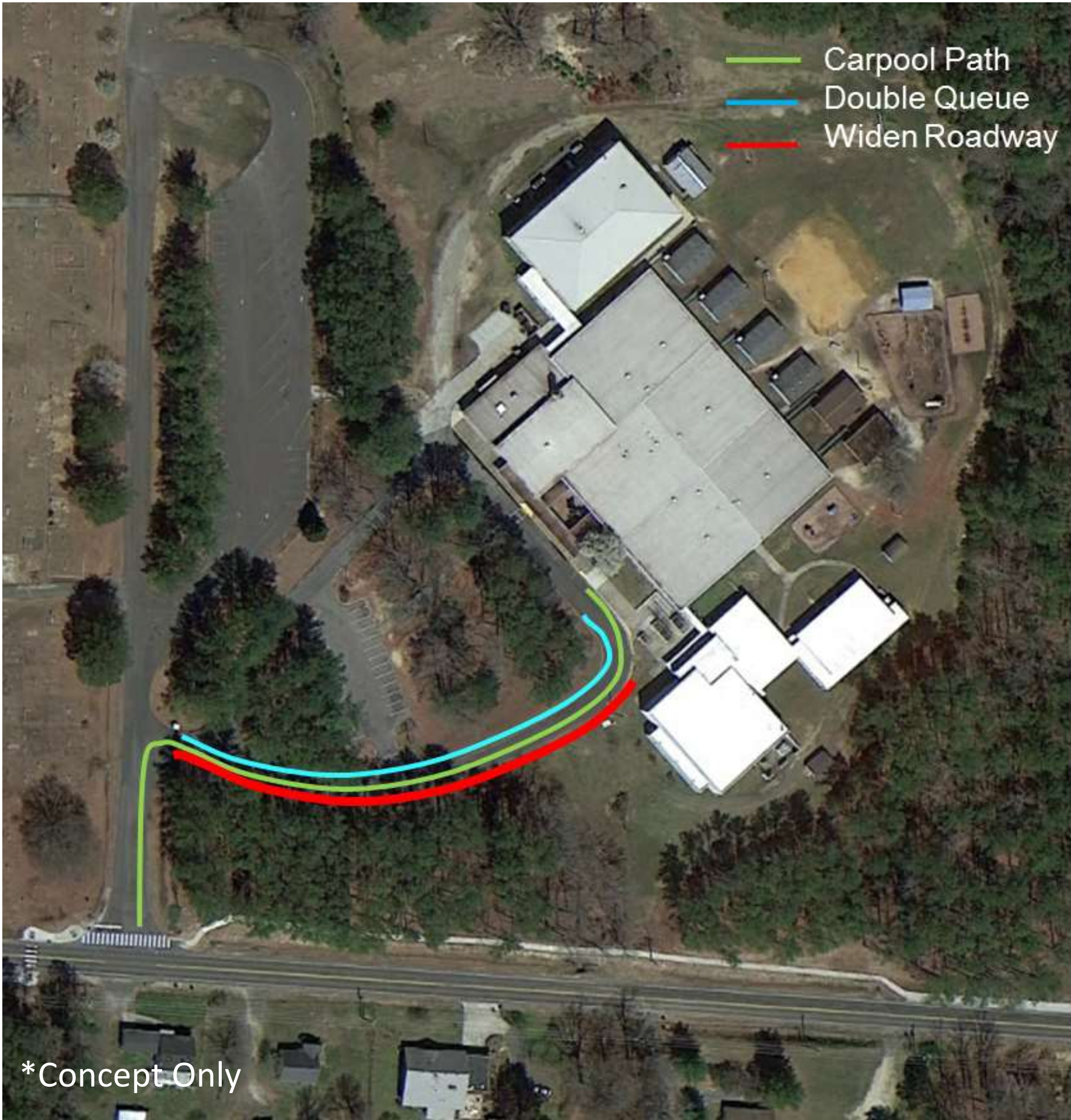


- Existing queue stacking space ~665 feet
- NCDOT MSTA recommended queue storage between 925 and 1,200 feet



Proposed NC 56 Cross-Section

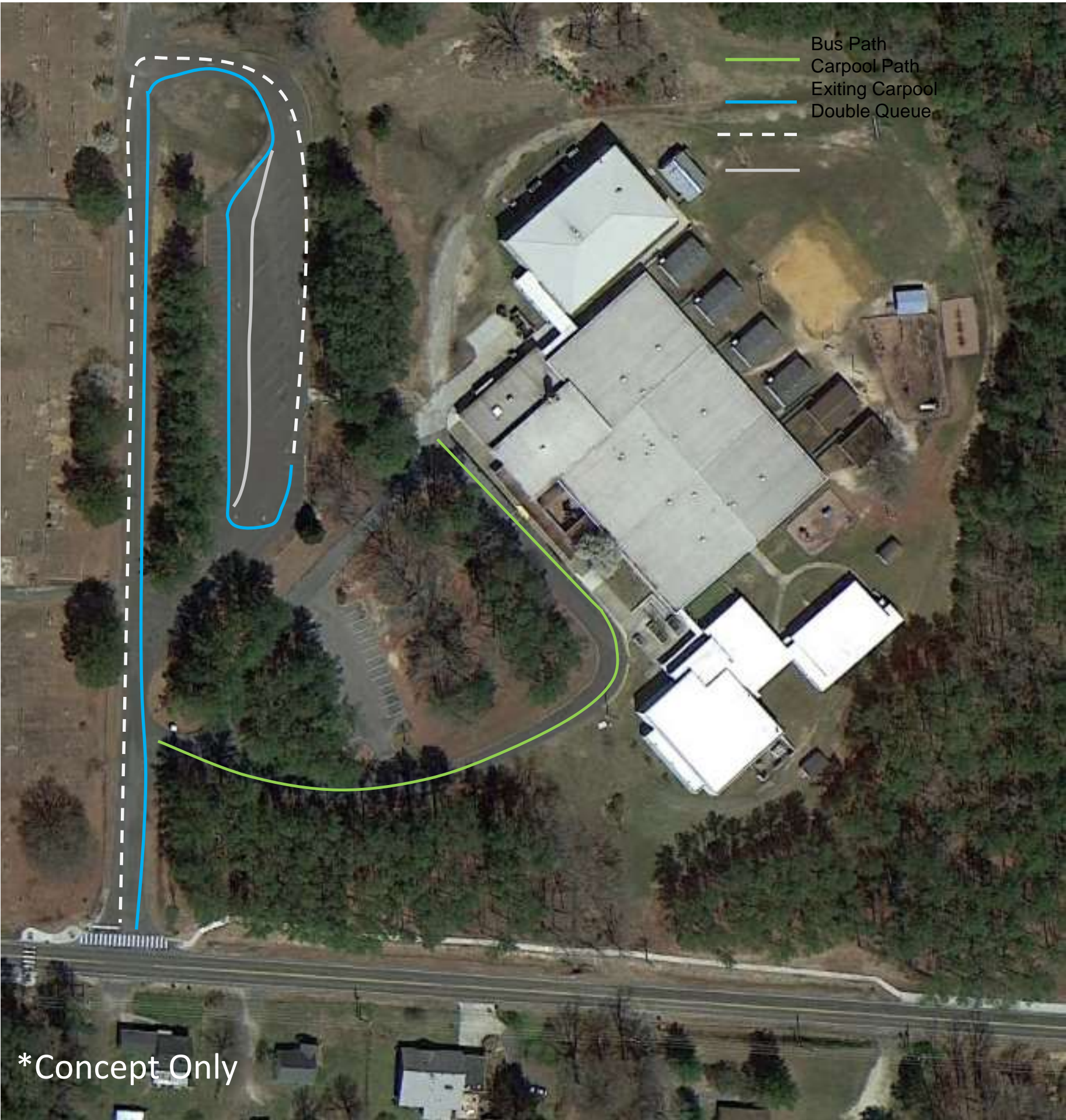
Options for Internal Queuing



Option A (~1,065 feet)

- Widen existing carpool to accommodate double stacking
- Provides 400 feet of additional queue

Comments



Option B (~1,250 feet)

- Switch bus and carpool operations
- Provides 1,250 feet of single queue
- Provides an additional 325 feet of double queue

Comments