

# POND



# SR 140 Corridor Study

Work Session Presentation August 20, 2019

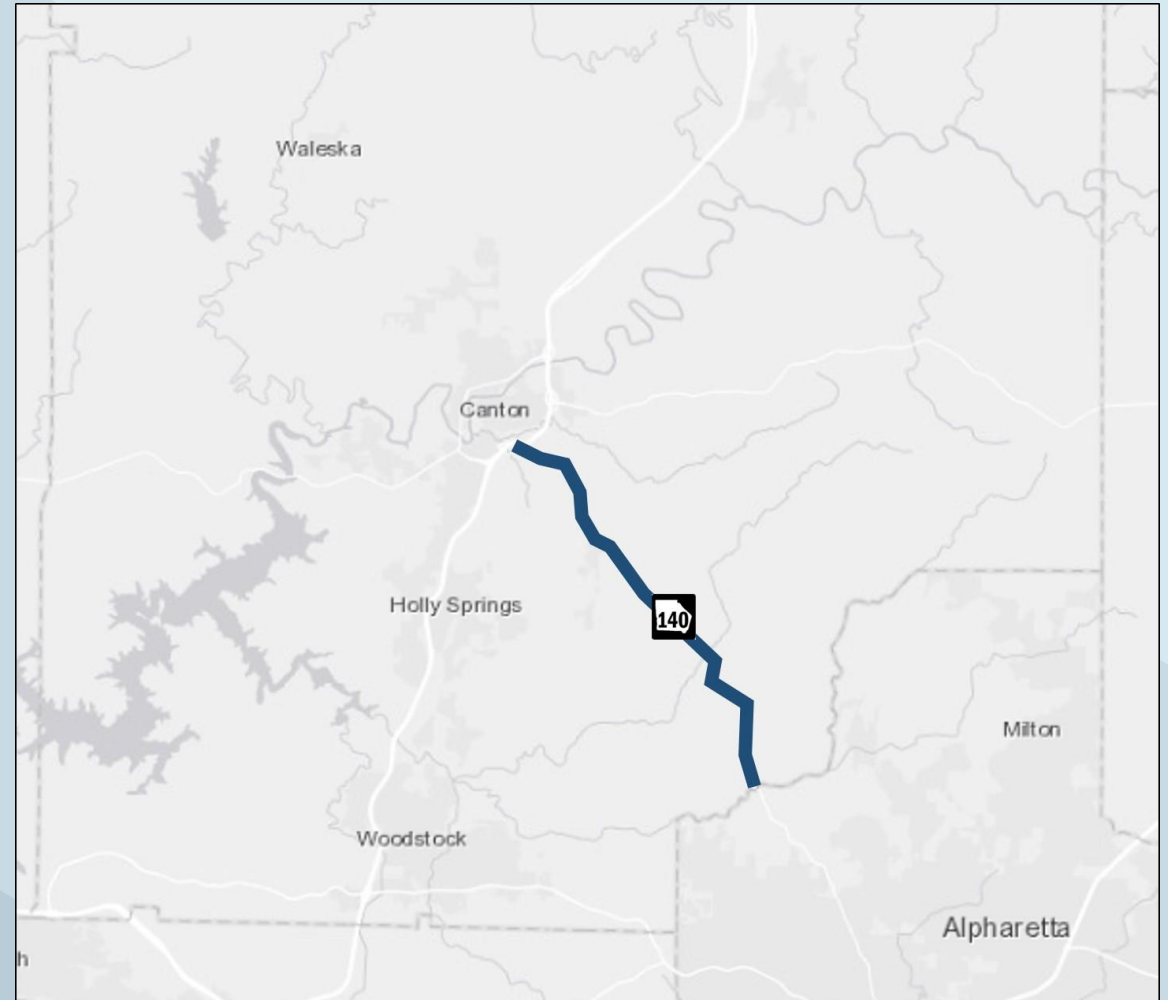
# Study Purpose

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**1 - Identify implementable short-term and mid-term projects that will provide relief for the travelers in this corridor**

**The County identified eighteen intersections to analyze**

**2 - Provided recommendations for prioritizing segments along the **10 mile corridor** to widen from a two-lane road to a four-lane road**



# The Process

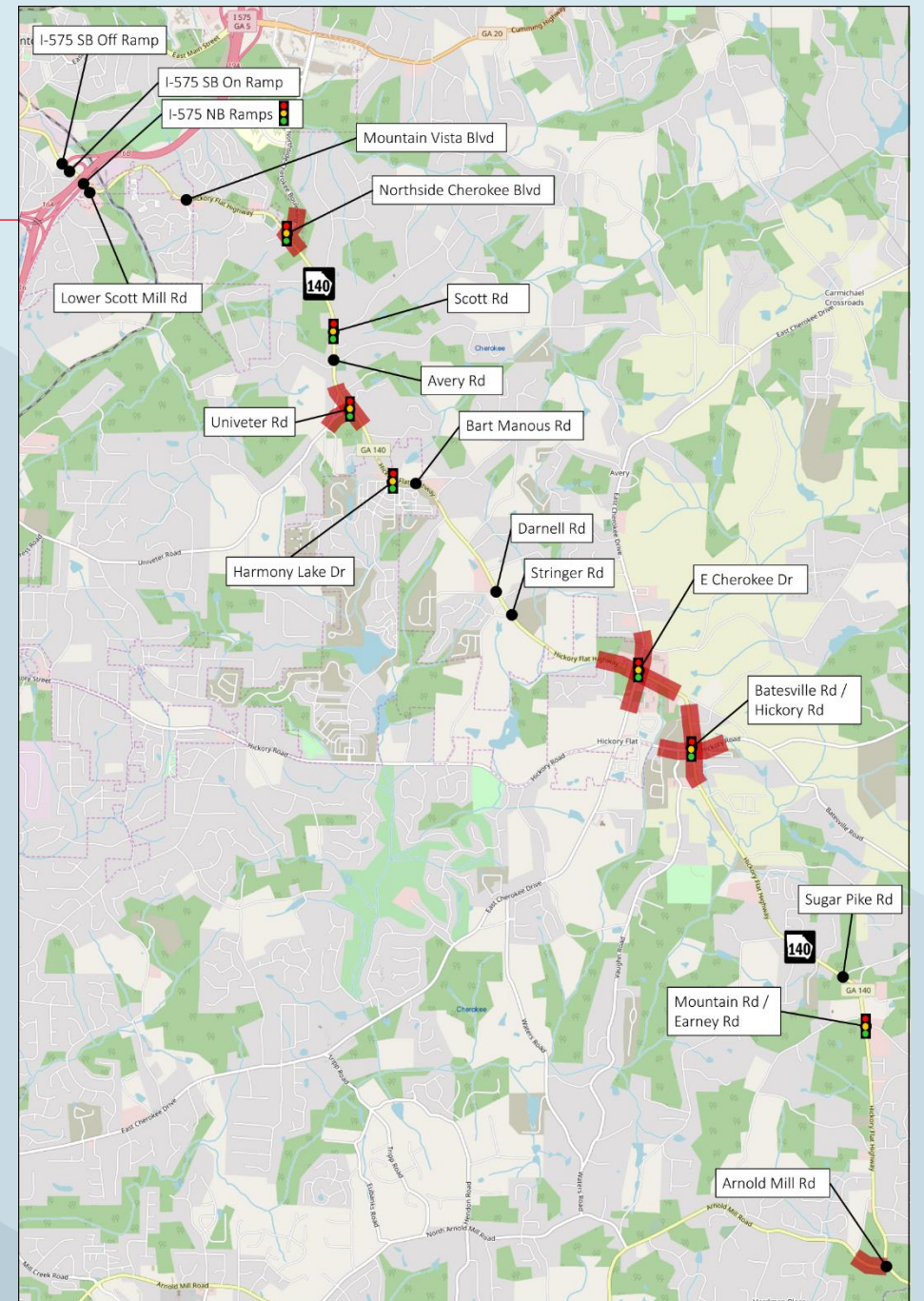
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- **Initiated February 2019**
- **Two meetings with GDOT District 6 staff**

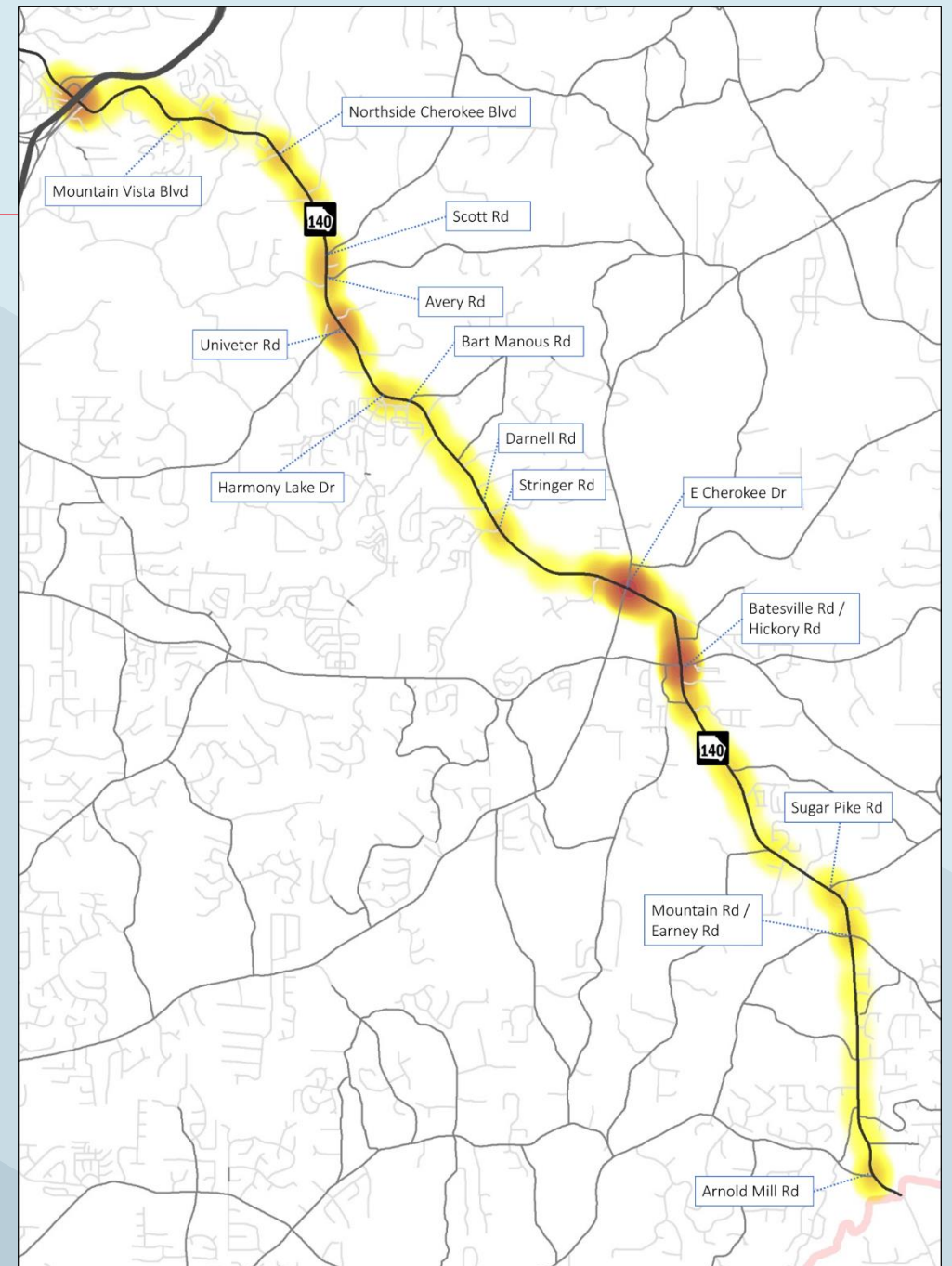
# Corridor Conditions

- **Reviewed Existing Traffic Congestion**
- **Projected Future Traffic Volumes for both 10-year and 20-year periods**
- **Growth rate of 3% for 10 years; followed by growth rate of 1.5% for 10 years**



# Corridor Conditions

- **Reviewed Crash Hot Spots**
- **Crash rate of 489 crashes per 100 million vehicles miles is below the statewide average**
- **Predominant crash types:**
  - 52% rear-end
  - 22% angle



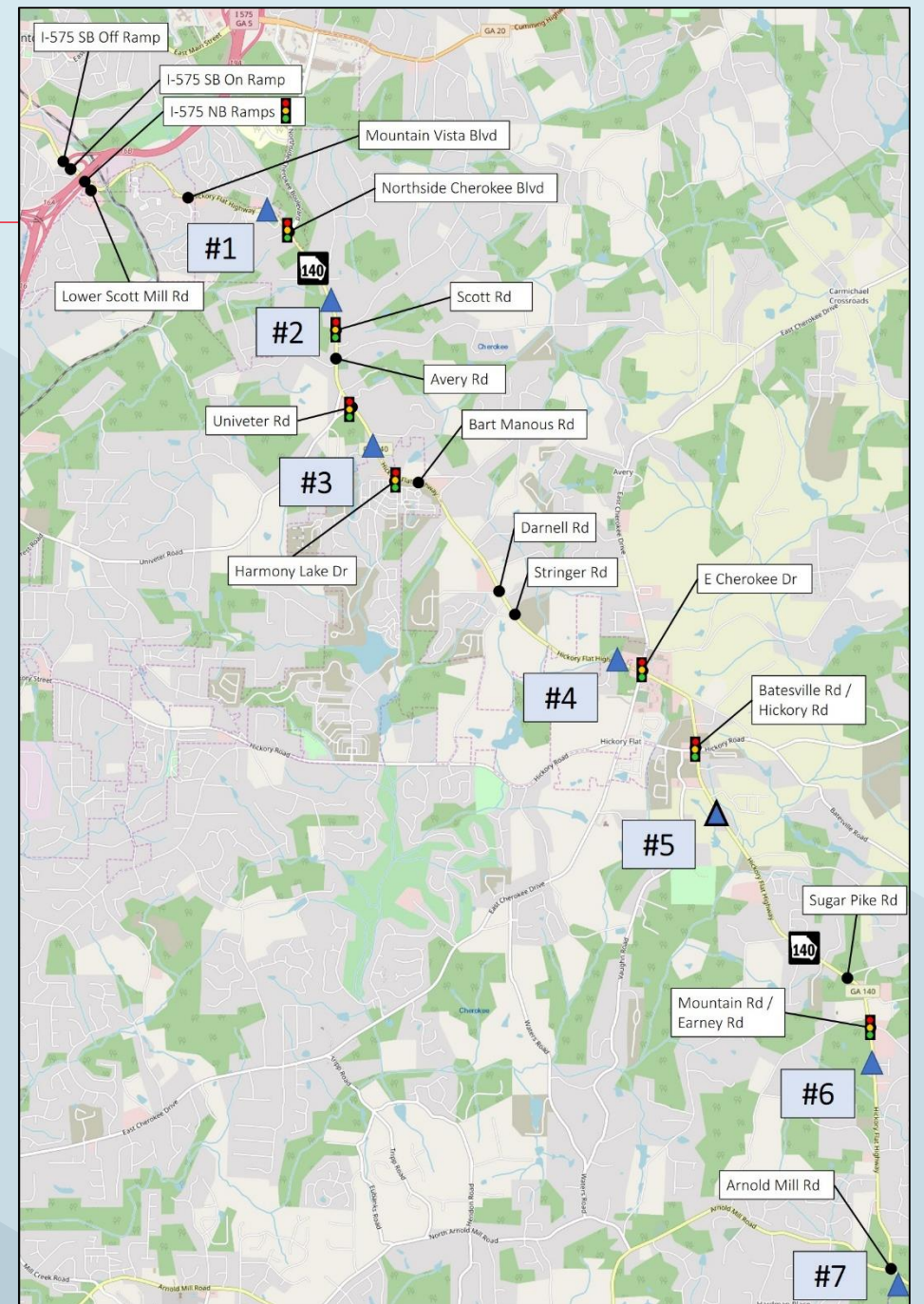
# Corridor Conditions

## SR 140 Volumes and Capacity

Location	Year				
	2019	2024	2029	2034	2039
#1 - West of Northside Cherokee Blvd	16,334	18,925	21,950	23,200	24,550
#2 - West of Scott Rd	20,928	24,250	28,125	29,750	31,500
#3 - West of Harmony Lake Dr	22,587	26,175	30,350	32,100	33,950
#4 - West of East Cherokee Dr	19,441	22,525	26,125	27,650	29,250
#5 - South of Hickory Rd/ Batesville Rd	17,824	20,675	23,950	25,350	26,800
#6 - South of Mountain Rd/Earney Rd	16,602	19,250	22,300	23,600	24,950
#7 - At Cherokee / Fulton County line	22,908	26,550	30,775	34,450	

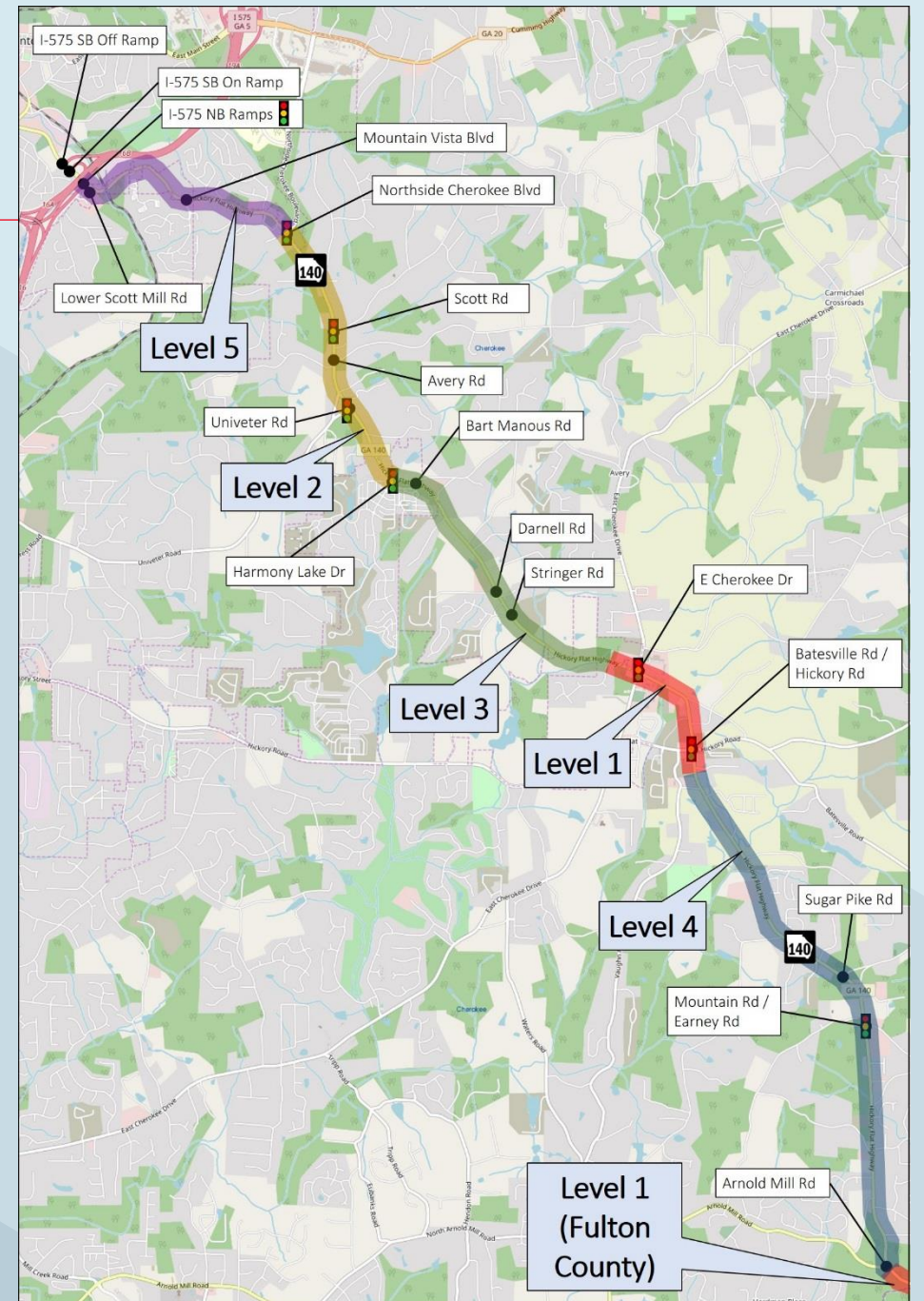
3-lane road provides capacity

4-lane roadway needed



# Widening Prioritization

- **Based on existing and projected traffic volumes**
- **5 segments within Cherokee County**
- **Short-term and mid-term intersection projects are intended to be compatible with the future widening**



# Intersection Recommendations

## Early success – GDOT pursuing 3 projects

### Identified 19 projects

- 3 GDOT pursuing as Quick Response
- 3 currently underway (2 County, 1 GDOT)
- Recommended modification to 1 existing project
- 13 projects to be programmed

- 1 SR 140 at Hillcrest Drive: Install dedicated eastbound left-turn lane along SR 140
  - GDOT is developing concept and cost estimate for project programming; this will improve intersection operations and safety
- 2 SR 140 at Univeter Road: Lengthen the westbound left-turn lane along SR 140
  - GDOT is preparing a concept for a 'quick-response' project; this will reduce the occurrence of left-turn vehicles blocking the through lane
- 3 SR 140 at Arnold Mill Road: Lengthen the northbound left-turn lane along SR 140
  - GDOT programmed a maintenance project to re-stripe the center lane to provide an additional +/- 500-feet; this project is possible due to the recently completely bridge replacement project which built a 12-foot center lane



# Intersection Recommendations

	Study Intersection/ Location	Short-term	Mid-term	Long-term	Fact Sheet	Total Cost Estimate	Action
1	I-575 SB Off Ramp	--	Potential Multilane Roundabout	--	Y	TBD	Request GDOT further study
2	I-575 SB On Ramp	--		--			
3	I-575 NB Ramps	1) GDOT Signal Upgrade	--	2) Additional turn lanes	Y		--
4	Lower Scott Mill Rd	--	--	Re-align and relocate intersection to east	Y		--
5	Mountain Vista Blvd	Side-street striping modification	--	--			Request to GDOT
*	Hillcrest Drive	Install dedicated EB left-turn lane	--	--			GDOT currently studying
6	Northside Cherokee Blvd	1) GDOT Signal Upgrade	2) Additional travel lanes (SR 140) and dual left-turn lanes (Northside Cherokee Blvd)	--	Y	\$2.7M	--
7	Scott Rd	GDOT Signal Upgrade & add side-street right-turn lane	--	--	Y	\$250K	County implement project
8	Avery Rd	--	1) PI # 0016105 - add center TWLTL along SR 140	--	Y	\$175K	Current GDOT programmed Safety project
			2) Add side-street right-turn lane				County partner with GDOT current project through PFA
9	Univeter Rd	1) Lengthen WB left-turn lane (SR 140)	--	--	Y	\$4.49M	GDOT programming project
		2) GDOT Signal Upgrade	--				Request to GDOT
		--	3) Additional travel lanes (SR 140) and dual WB left-turn lanes (SR 140)				--
10	Harmony Lake Dr	--	--	Additional travel lanes (SR 140)			--
11	Bart Manous Rd	--	--	Potential RCUT intersection			--
12	Darnell Rd to Stringer Rd	County project to add center TWLTL from Darnell Rd to Stringer Rd	--	--			County implement project
13	Stringer Rd	--	Install traffic signal when warranted	--			County monitor volumes each year
14	E Cherokee Dr	1) PI # 0013368 - Adds three right-turn lanes	--	--			Project currently in ROW Acquisition
		2) Convert NB right-turn lane to shared through/right-turn lane (E. Cherokee Dr)	--	--			County will implement during construction
		--	3) Convert right-turn lanes to shared through/right-turn lanes along SR 140	--	Y	\$5.77M	--
*	Sharp Curve	--	Additional travel lanes (SR 140) and rebuild horizontal curve	--	Y	\$4.08	--
15	Batesville Rd / Hickory Rd	Additional travel lanes (SR 140) and additional EB travel lane (Batesville Rd)	--	--	Y	\$4.5M	County Program Project
16	Sugar Pike Rd	Install traffic signal	--	--	Y	\$301k	County implement project
17	Mountain Rd / Earney Rd	No changes (maintain existing conditions)	--	--			--
18	Arnold Mill Rd	Lengthen NB left-turn lane	--	--			GDOT programmed project
		--	--	As part of widening project, potential multilane roundabout			--

# Intersection Recommendations

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2	I-575 SB On Ramp	--		--			
3	I-575 NB Ramps	1) GDOT Signal Upgrade	--	2) Additional turn lanes	Y		--
4	Lower Scott Mill Rd	--	--	Re-align and relocate intersection to east	Y		--
5	Mountain Vista Blvd	Side-street striping modification	--	--			Request to GDOT
*	Hillcrest Drive	Install dedicated EB left-turn lane	--	--			GDOT currently studying
6	Northside Cherokee Blvd	1) GDOT Signal Upgrade	2) Additional travel lanes (SR 140) and dual left-turn lanes (Northside Cherokee Blvd)	--	Y	\$2.7M	--
7	Scott Rd	GDOT Signal Upgrade & add side-street right-turn lane	--	--	Y	\$250K	County implement project
8	Avery Rd	--	1) PI # 0016105 - add center TWLTL along SR 140	--	Y	\$175K	Current GDOT programmed Safety project
			2) Add side-street right-turn lane	--			County partner with GDOT current project through PFA
9	Univeter Rd	1) Lengthen WB left-turn lane (SR 140)	--	--			GDOT programming project
		2) GDOT Signal Upgrade	--	--			Request to GDOT
		--	3) Additional travel lanes (SR 140) and dual WB left-turn lanes (SR 140)	--	Y	\$4.49M	--
10	Harmony Lake Dr	--	--	Additional travel lanes (SR 140)			--
11	Bart Manous Rd	--	--	Potential RCUT intersection			--
12	Darnell Rd to Stringer Rd	County project to add center TWLTL from Darnell Rd to Stringer Rd	--	--			County implement project
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14	E Cherokee Dr	1) PI # 0013368 - Adds three right-turn lanes	--	--			Project currently in ROW Acquisition
		2) Convert NB right-turn lane to shared through/right-turn lane (E. Cherokee Dr)	--	--			County will implement during construction
			3) Convert right-turn lanes to shared through/right-turn lanes along SR 140	--	Y	\$5.77M	--
*	Sharp Curve	--	Additional travel lanes (SR 140) and rebuild horizontal curve	--	Y	\$4.08	--
15	Batesville Rd / Hickory Rd	Additional travel lanes (SR 140) and additional EB travel lane (Batesville Rd)	--	--	Y	\$4.5M	County Program Project
16	Sugar Pike Rd	Install traffic signal	--	--	Y	\$301k	County implement project
17	Mountain Rd / Earney Rd	No changes (maintain existing conditions)	--	--			--
18	Arnold Mill Rd	Lengthen NB left-turn lane	--	--			GDOT programmed project
		--	--	As part of widening project, potential multilane roundabout			--



LOCATION: **NORTHSIDE CHEROKEE BLVD**

Project Description:	Additional travel lanes (SR 140) and dual left-turn lanes (Northside Cherokee Blvd)
Project Addresses Need:	Increases intersection capacity and reduces vehicle delay – primarily in PM peak hour
Operations B/C Ratio:	3.02
Project reduces total hours of delay (year 2039):	AM = 17.8 PM = 79.5
Cost Estimate:	\$2.7 Million
Implementation Phase:	Mid-term
Action:	TBD



Preliminary Cost Estimate:	
Preliminary Eng.:	\$241,000.00
ROW Cost:	\$299,000.00
Construction Cost:	\$1,833,000.00
Contingency:	\$335,000.00
<b>Total Project Cost:</b>	<b>\$2,708,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	C (21)	C (35)
2029 No-Build	C (28)	E (77)
2029 Build	B (20)	C (30)
2039 No-Build	D (46)	F (119)
2039 Build	C (22)	C (35)

Additional Project Details	
Detailed Project Description:	<ul style="list-style-type: none"> <li>Add additional through lanes (SR 140), beginning before intersection and merging after.</li> <li>Restripe existing through lane on Northside Cherokee Blvd to be shared left/through lane and modify signal to be side-street split phased.</li> <li>Extend WB right-turn lane (SR 140).</li> <li>Maintain rural shoulder design and add 4-foot paved shoulders.</li> </ul>
Existing Condition:	Traffic Signal with turn lanes
Options Considered:	<ul style="list-style-type: none"> <li>GDOT signal upgrade</li> <li>additional SB through lane and dual WB left turns</li> </ul>
Implementation Considerations:	Currently adjacent property primarily vacant

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.  
 Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: **SCOTT RD**

Project Description:	Add WB right turn lane (Scott Rd)
Project Addresses Need:	Decreases side-street delay, increases intersection capacity
Cost Estimate:	\$250,000
Implementation Phase:	Short-term
Action:	County Implement Project



Preliminary Cost Estimate:	
Preliminary Eng.:	\$32,000.00
ROW Cost:	\$29,000.00
Construction Cost:	\$160,000.00
Contingency:	\$29,000.00
<b>Total Project Cost:</b>	<b>\$250,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	B (13)	B (13)
2029 No-Build	C (33)	D (42)
2029 Build	B (20)	C (31)
2039 No-Build	E (65)	F (86)
2039 Build	D (37)	E (66)

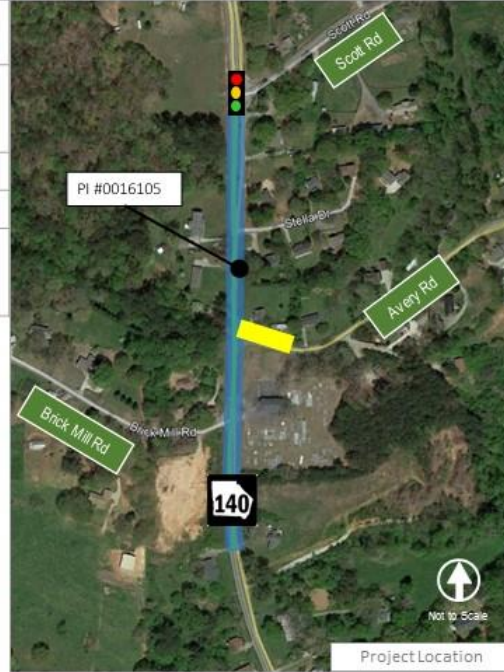
Additional Project Details	
Detailed Project Description:	<ul style="list-style-type: none"> <li>Add right turn lane to Scott Rd approach</li> <li>GDOT signal upgrade (FYA signals and backplates with reflective tape)</li> </ul>
Existing Condition:	Traffic Signal with turn lanes on SR 140
Options Considered:	<ul style="list-style-type: none"> <li>Multilane roundabout</li> <li>add travel lanes to SR 140</li> </ul>
Implementation Considerations:	PI #0016105 will construct center TWLTL along SR 140; currently in preliminary engineering

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.  
 Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: **EVERY RD**

Project Description:	Add WB right turn lane (Avery Rd)
Project Addresses Need:	Decreases side-street delay, increases intersection capacity
Cost Estimate:	\$175,000
Implementation Phase:	Mid-term
Action:	County partner with GDOT current project through PFA



Preliminary Cost Estimate:	
Preliminary Eng.:	\$25,000.00
ROW Cost:	\$17,000.00
Construction Cost:	\$104,000.00
Contingency:	\$29,000.00
<b>Total Project Cost:</b>	<b>\$175,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	E (49)	F (197)
2029 No-Build	F (77)	F (**)
2029 Build	E (41)	F (107)
2039 No-Build	F (**)	F (**)
2039 Build	F (135)	F (**)

Additional Project Details	
Detailed Project Description:	Add right turn lane to Avery Rd
Existing Condition:	Stop control with no turn lanes
Options Considered:	<ul style="list-style-type: none"> <li>'Flare' approach to allow right-turn vehicles to pass one queued LT vehicle</li> <li>Re-align Brick Mill Rd with Avery Rd; this may be considered as part of the future SR 140 widening project</li> </ul>
Implementation Considerations:	<ul style="list-style-type: none"> <li>PI #0016105 will construct center TWLTL along SR 140; currently in preliminary engineering</li> </ul>

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: **UNIVETER RD**

Project Description:	Additional travel lanes (SR 140) and dual left-turn lanes (SR 140 NB)
Project Addresses Need:	Increases intersection capacity and reduces vehicle delay
Operations B/C Ratio:	1.88
Project reduces total hours of delay (year 2039):	AM = 50.2 PM = 58.6
Cost Estimate:	\$4.5 Million
Implementation Phase:	Mid-term
Action:	TBD



Preliminary Cost Estimate:	
Preliminary Eng.:	\$320,000.00
ROW Cost:	\$712,000.00
Construction Cost:	\$2,922,000.00
Contingency:	\$533,000.00
<b>Total Project Cost:</b>	<b>\$4,487,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	C (22)	C (22)
2029 No-Build	D (50)	D (52)
2029 Build	C (23)	C (20)
2039 No-Build	F (94)	F (89)
2039 Build	D (37)	C (29)

Additional Project Details	
Detailed Project Description:	<ul style="list-style-type: none"> <li>Add additional through lanes along SR 140, beginning before intersection and merging after.</li> <li>Add lane on NB SR 140 to create dual left-turn lanes.</li> <li>Add receiving lane on Univeter to accommodate the dual left-turns and tie into school driveway.</li> <li>Maintain rural shoulder design and add 4-foot paved shoulders,</li> </ul>
Existing Condition:	Traffic Signal with turn lanes
Options Considered:	<ul style="list-style-type: none"> <li>GDOT signal upgrade</li> <li>Multilane roundabout</li> <li>additional NB and SB through lanes with single NB left-turn lane</li> </ul>
Implementation Considerations:	Note: GDOT is programming project to extend the NB left-turn lane (SR 140)

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: E CHEROKEE DR

Project Description:	Convert right turn lanes to shared through/right turn lanes along SR 140
Project Addresses Need:	Increases intersection capacity and reduces vehicle delay, particularly in the PM peak period
Operations B/C Ratio:	1.02
Project reduces total hours of delay (year 2039):	AM = 20.7 PM = 67.3
Cost Estimate:	\$5.8 Million
Implementation Phase:	Mid-term
Action:	TBD



Preliminary Cost Estimate:	
Preliminary Eng.:	\$403,000.00
ROW Cost:	\$945,000.00
Construction Cost:	\$3,998,000.00
Contingency:	\$431,000.00
<b>Total Project Cost:</b>	<b>\$5,777,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	D (45)	D (49)
2029 No-Build	E (63)	F (99)
2029 Build	D (51)	E (57)
2039 No-Build	F (92)	F (144)
2039 Build	D (55)	E (79)

Additional Project Details	
Detailed Project Description:	<ul style="list-style-type: none"> <li>Convert right turn lanes along SR 140 into shared through/right turn lanes, beginning before intersection and merging after.</li> <li>Note: Project includes converting the NB right-turn lane to a shared through-right on E Cherokee Dr (which Cherokee County plans to implement)</li> <li>Project includes adding WB left-turn lane at White Columns Dr</li> <li>Construct 'urban' shoulder design with curb and sidewalks.</li> </ul>
Existing Condition:	Traffic Signal with turn lanes
Options Considered:	<ul style="list-style-type: none"> <li>add EB and WB travel lanes (SR 140) while maintaining (rebuilding) right-turn lanes at E Cherokee Dr</li> </ul>
Implementation Considerations:	Note: PI #0013368 adds three right-turn lanes at intersection; currently in ROW acquisition

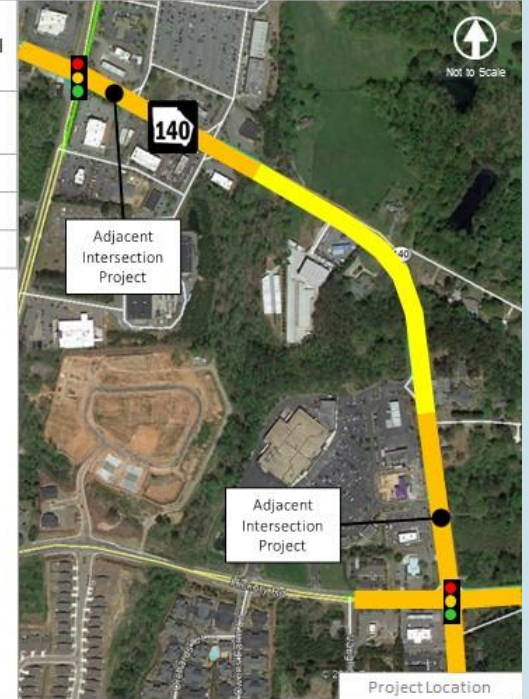
Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: SHARP CURVE

Project Description:	Additional travel lanes (SR 140) and rebuild horizontal curve
Project Addresses Need:	Increases capacity and safety
Cost Estimate:	\$4.1 Million
Implementation Phase:	Mid-term
Action:	TBD



Preliminary Cost Estimate:	
Preliminary Eng.:	\$310,000.00
ROW Cost:	\$1,062,000.00
Construction Cost:	\$2,372,000.00
Contingency:	\$336,000.00
<b>Total Project Cost:</b>	<b>\$4,080,000.00</b>

Additional Project Details	
Detailed Project Description:	Rebuild curve with four travel lanes plus two-way center turn lane (or raised median) to meet 45 mph design speed
Existing Condition:	Two lane road with horizontal curve not meeting 45 mph design speed
Options Considered:	--
Implementation Considerations:	<ul style="list-style-type: none"> <li>Construct project after two intersection projects complete</li> <li>Combine project with one adjacent project (E Cherokee Dr) and construct at one time</li> <li>Purchase ROW in advance (prior to development occurring)</li> </ul>

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



# SR 140 CORRIDOR STUDY

# PROJECT FACT SHEET

LOCATION: **BATESVILLE RD / HICKORY RD**

Project Description:	Additional travel lanes (SR 140) and additional EB travel lane (Batesville Rd)
Project Addresses Need:	Increases intersection capacity and reduces vehicle delay, particularly in the AM peak period; this is the highest volume intersection in corridor
Operations B/C Ratio:	3.06
Project reduces total hours of delay (year 2039):	AM = 73.9 PM = 36.6
Cost Estimate:	\$4.5 Million
Implementation Phase:	Short-term
Action:	County Program Project



Preliminary Cost Estimate:	
Preliminary Eng.:	\$378,000.00
ROW Cost:	\$777,000.00
Construction Cost:	\$2,908,000.00
Contingency:	\$435,000.00
<b>Total Project Cost:</b>	<b>\$4,498,000.00</b>

Additional Project Details	
Detailed Project Description:	<ul style="list-style-type: none"> <li>Add additional through lanes along SR 140, beginning before intersection and merging after.</li> <li>Add additional through lane EB along Hickory Rd, beginning before intersection and merging after.</li> <li>Construct 'urban' shoulder design with curb and sidewalks along SR 140.</li> </ul>
Existing Condition:	Traffic Signal with turn lanes

Capacity Results:		
	AM	PM
Existing Year	D (45)	D (49)
2029 No-Build	E (63)	F (99)
2029 Build	D (51)	E (57)
2039 No-Build	F (92)	F (144)
2039 Build	D (55)	E (79)

Options Considered:	<ul style="list-style-type: none"> <li>Add additional through lanes along SR 140</li> <li>Add eastbound through lane along Hickory Rd</li> <li>Multilane Roundabout</li> </ul>
Implementation Considerations:	<ul style="list-style-type: none"> <li>One potentially eligible historic building is expected to be impacted by project; recommendation is to acquire property (remove buildings) and re-sell property</li> <li>To reduce historical review process and project timeline (delivery) it is recommended to use either local funding or state funding only; a federally funded project will be difficult</li> </ul>

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



# SR 140 CORRIDOR STUDY

# PROJECT FACT SHEET

LOCATION: **SUGAR PIKE RD**

Project Description:	Install traffic signal
Project Addresses Need:	Reduces vehicle delay on Sugar Pike Rd
Cost Estimate:	\$301,000
Implementation Phase:	Short-term
Action:	County Program Project



Preliminary Cost Estimate:	
Preliminary Eng.:	\$21,000.00
ROW Cost:	\$7,000.00
Construction Cost:	\$249,000.00
Contingency:	\$24,000.00
<b>Total Project Cost:</b>	<b>\$301,000.00</b>

Capacity Results:		
	AM	PM
Existing Year	F (154)	F (71)
2029 No-Build	F (**)	F (**)
2029 Build	B (17)	C (21)
2039 No-Build	F (**)	F (**)
2039 Build	C (22)	C (31)

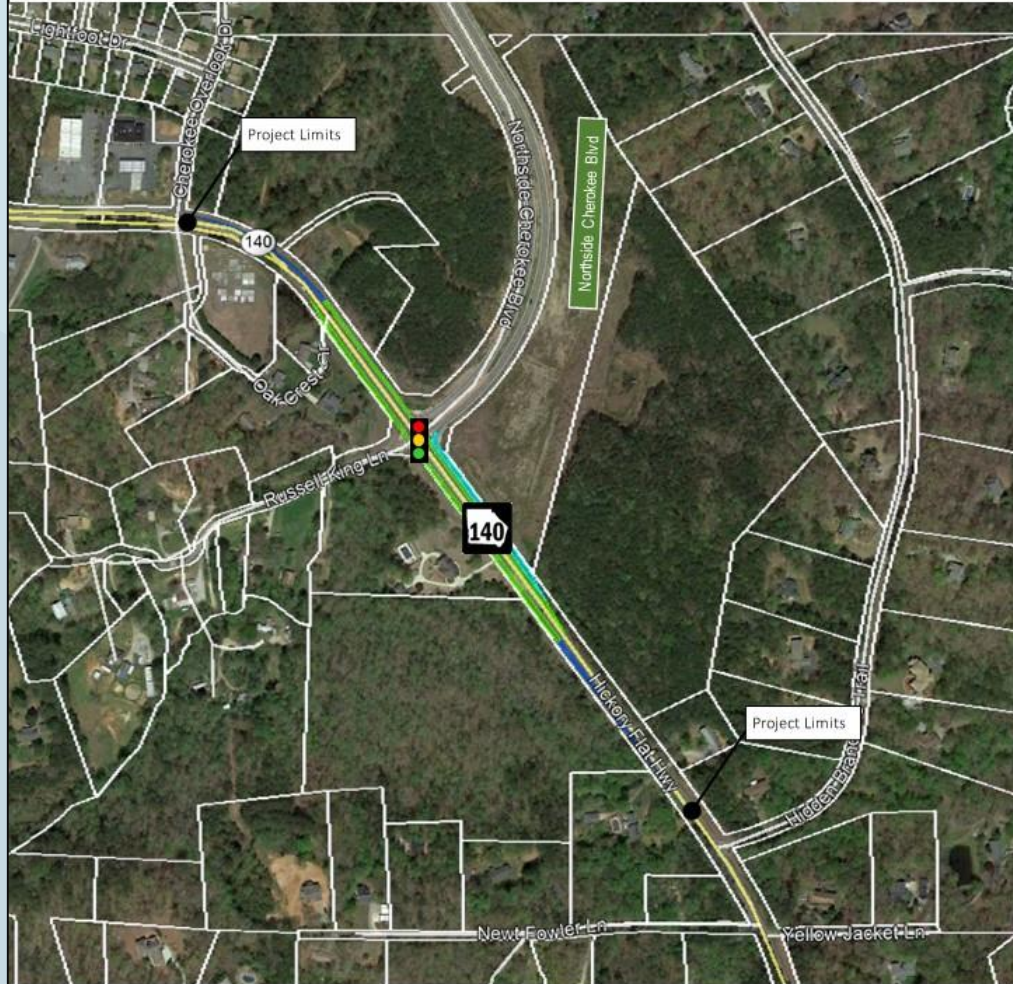
Additional Project Details	
Detailed Project Description:	Install traffic signal Note: No additional turn lanes needed
Existing Condition:	Stop control with turn lanes
Options Considered:	<ul style="list-style-type: none"> <li>Unsignalized high-T intersection</li> <li>Roundabout</li> <li>Signalized green T-intersection</li> </ul>
Implementation Considerations:	Intersection meets signal warrants (Warrant 1)

Note: Operations B/C Ratio: This is calculation of delay reduction benefit versus cost for a 10-year period.

Note: Preliminary Cost Estimate is based on schematic layout and County GIS parcel data; the cost should be validated with a concept layout and additional data



LOCATION: **NORTHSIDE CHEROKEE BLVD**



**Proposed Features:**

- █ Through Lane
- █ Right-turn Lane
- █ Lane Merge

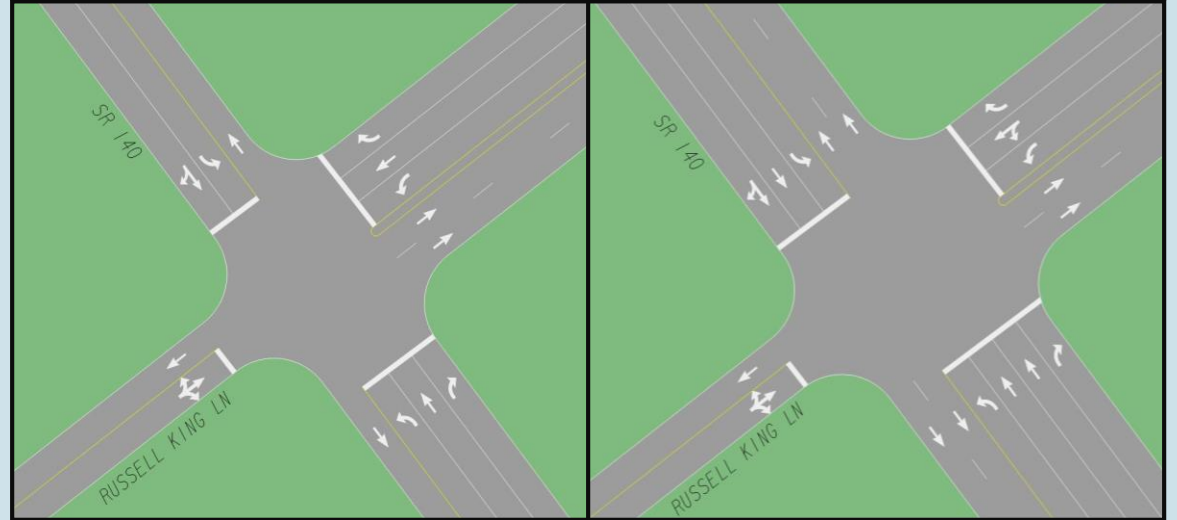


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**POND**  
 Updated: 6/18/19

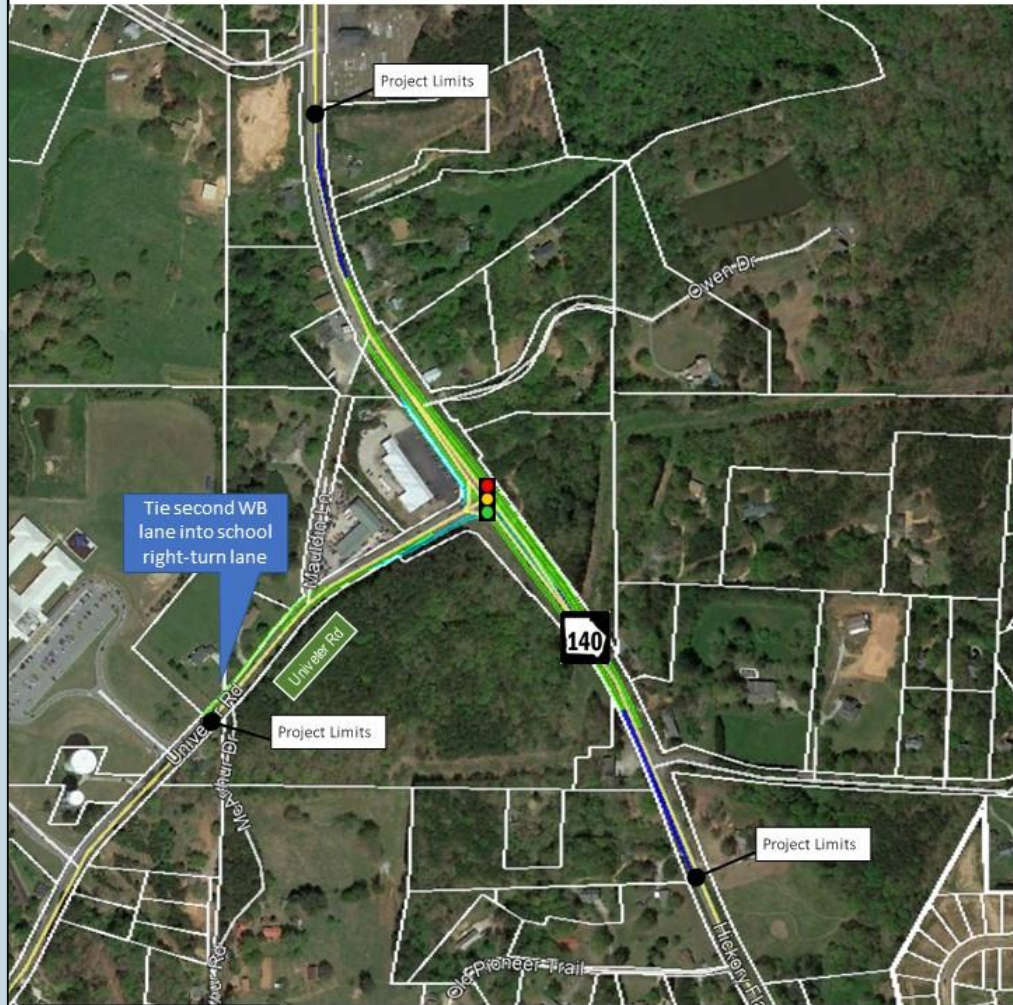
EXISTING

PROPOSED





LOCATION: UNIVETER RD



Proposed Features:

- █ Through Lane
- █ Right-turn Lane
- █ Lane Merge

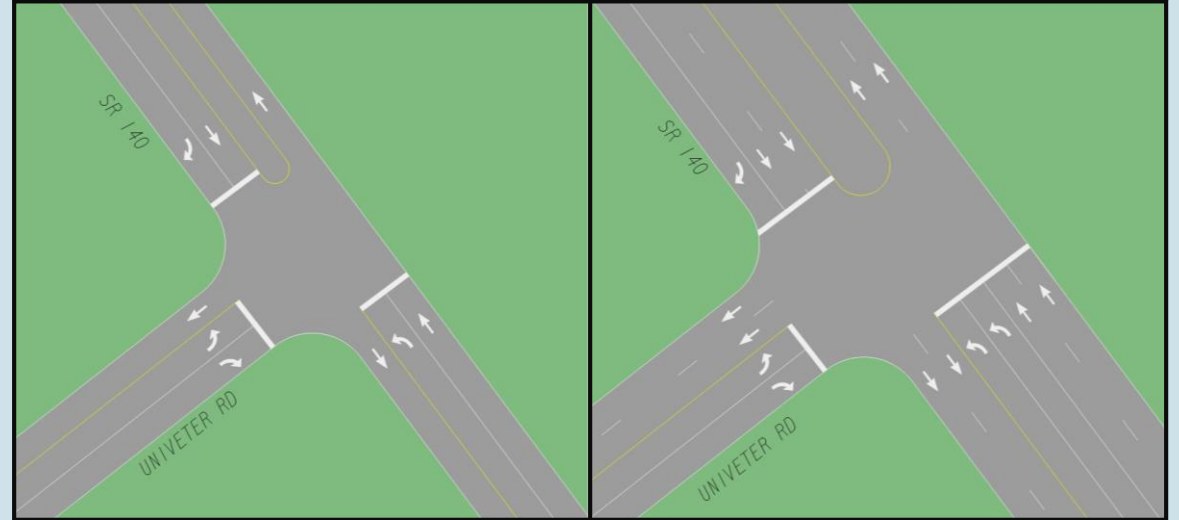


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**POND**  
 Updated: 6/18/19

EXISTING

PROPOSED



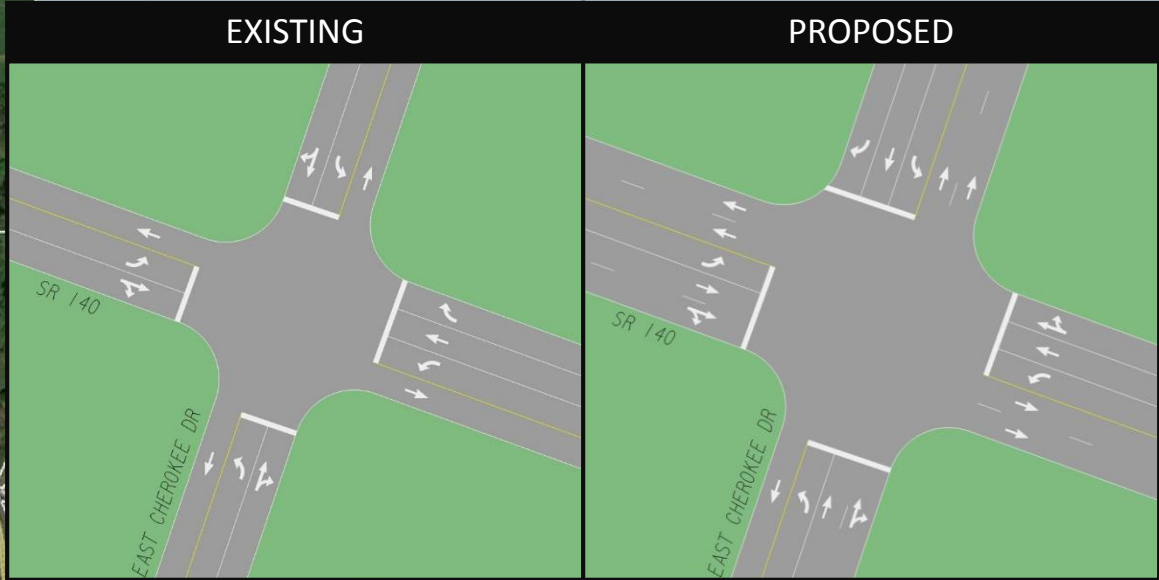




# SR 140 CORRIDOR STUDY

# PROJECT SCHEMATIC LAYOUT

LOCATION: E CHEROKEE DR



### Proposed Features:

- Through Lane
- Right-turn Lane
- Lane Merge



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**POND**  
 Updated: 6/15/19



LOCATION: SHARP CURVE



**Proposed Features:**

-  Through Lane
-  Right-turn Lane
-  5-lane roadway

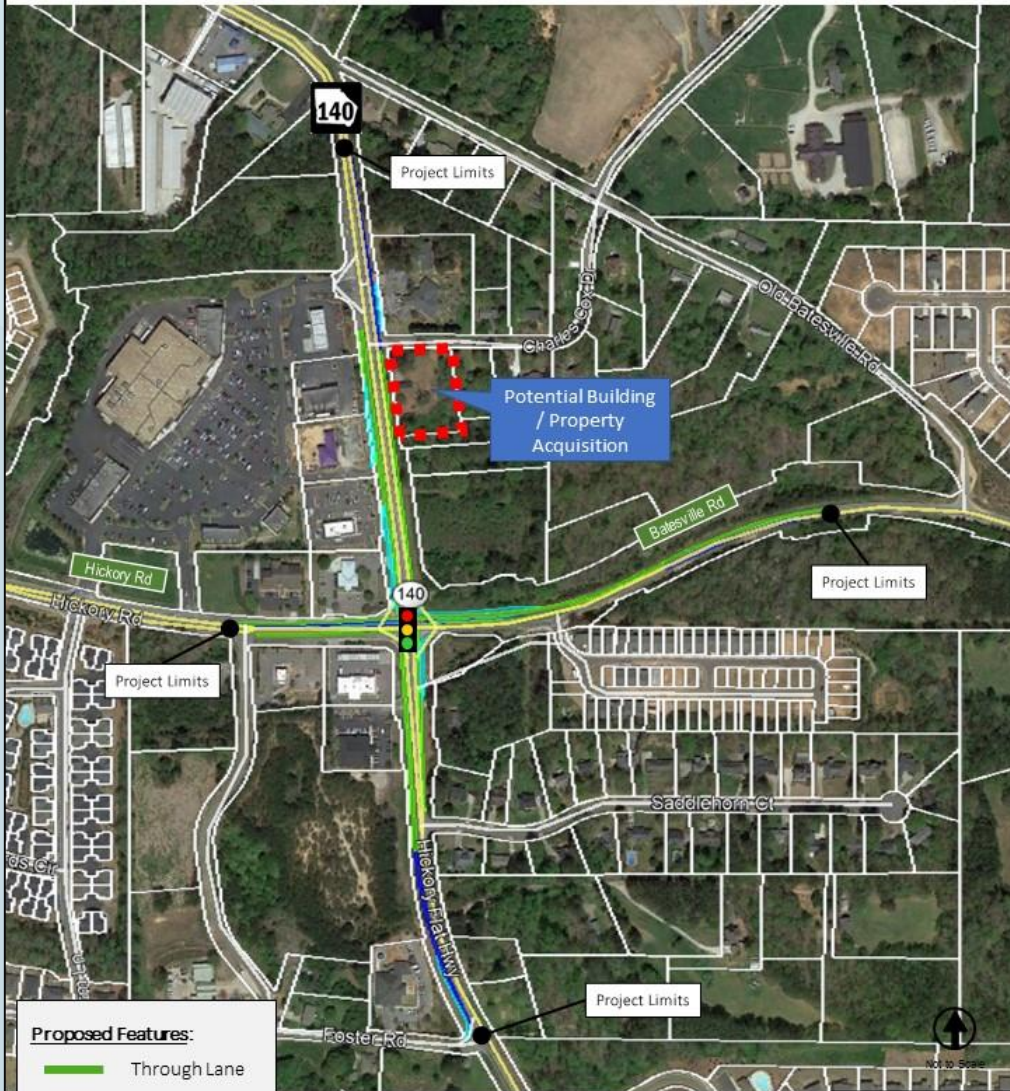


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PREPARED BY  
**POND**  
Updated: 6/15/19



LOCATION: BATESVILLE RD / HICKORY RD



Proposed Features:

- █ Through Lane
- █ Right-turn Lane
- █ Lane Merge

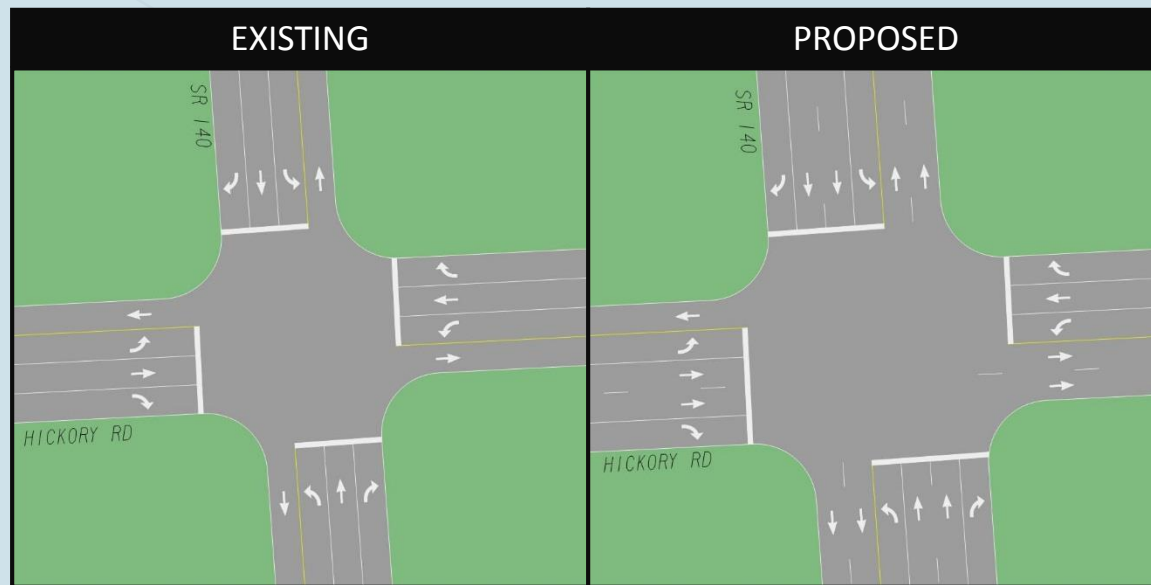
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Updated: 5/15/19

EXISTING

PROPOSED



# Next Steps

	Study Intersection/ Location	Short-term	Mid-term	Long-term	Fact Sheet	Total Cost Estimate	Action
1	I-575 SB Off Ramp	--	Potential Multilane Roundabout	--	Y	TBD	Request GDOT further study
2	I-575 SB On Ramp	--		--			
3	I-575 NB Ramps	1) GDOT Signal Upgrade	--	2) Additional turn lanes	Y	--	--
4	Lower Scott Mill Rd	--	--	Re-align and relocate intersection to east	Y	--	--
5	Mountain Vista Blvd	Side-street striping modification	--	--			Request to GDOT
*	Hillcrest Drive	Install dedicated EB left-turn lane	--	--			GDOT currently studying
6	Northside Cherokee Blvd	1) GDOT Signal Upgrade	2) Additional travel lanes (SR 140) and dual left-turn lanes (Northside Cherokee Blvd)	--	Y	\$2.7M	--
7	Scott Rd	GDOT Signal Upgrade & add side-street right-turn lane	--	--	Y	\$250K	County implement project
8	Avery Rd	--	1) PI # 0016105 - add center TWLTL along SR 140 2) Add side-street right-turn lane	--	Y	\$175K	Current GDOT programmed Safety project County partner with GDOT current project through PFA
9	Univeter Rd	1) Lengthen WB left-turn lane (SR 140) 2) GDOT Signal Upgrade	--	--			GDOT programming project Request to GDOT
		--	3) Additional travel lanes (SR 140) and dual WB left-turn lanes (SR 140)	--	Y	\$4.49M	--
10	Harmony Lake Dr	--	--	Additional travel lanes (SR 140)			--
11	Bart Manous Rd	--	--	Potential RCUT intersection			--
12	Darnell Rd to Stringer Rd	County project to add center TWLTL from Darnell Rd to Stringer Rd	--	--			County implement project
13	Stringer Rd	--	Install traffic signal when warranted	--			County monitor volumes each year
14	E Cherokee Dr	1) PI # 0013368 - Adds three right-turn lanes 2) Convert NB right-turn lane to shared through/right-turn lane (E. Cherokee Dr)	--	--			Project currently in ROW Acquisition County will implement during construction
		--	3) Convert right-turn lanes to shared through/right-turn lanes along SR 140	--	Y	\$5.77M	--
*	Sharp Curve	--	Additional travel lanes (SR 140) and rebuild horizontal curve	--	Y	\$4.08	--
15	Batesville Rd / Hickory Rd	Additional travel lanes (SR 140) and additional EB travel lane (Batesville Rd)	--	--	Y	\$4.5M	County Program Project
16	Sugar Pike Rd	Install traffic signal	--	--	Y	\$301k	County implement project
17	Mountain Rd / Earney Rd	No changes (maintain existing conditions)	--	--			--
18	Arnold Mill Rd	Lengthen NB left-turn lane	--	--			GDOT programmed project
		--	--	As part of widening project, potential multilane roundabout			--

ARC project solicitation

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