



Strategic Transportation Corridor K

Phase 1

Master Plan

Appendix A

Detailed Project and Plan Tables

DRAFT

Master Plan

Appendix A: Detailed Project and Plan Tables

STC K Phase 1

**US 421 / NC 87 / NC 24
from Greensboro (Guilford County)
to I-95 (Harnett or Cumberland Counties)
North Carolina**

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Appendix A: Detailed Tables

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Table A-1. Programmed Highway STIP Projects (2026-2035) in the Study Area

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Chatham	SR 1916 (Corinth Road)	Rail-Highway Grade Crossing Improvement	RX-2008A	Crossing 630723C near Haywood	Crossing 630723C near Haywood. Install active warning devices.	\$ 800,000	N/A
Chatham	Triangle Innovation Point megasite	Economic Development	HE-0006	Locations in Division 8.	Locations in Division 8. Construct roadway improvements near the triangle innovation point megasite.	N/A	This is an economic development project for VinFast. "HF" funds reflect state legislative allocation.
Chatham	US 421	N/A	HS-2408F	N/A	SR 1007 (Plank Road) / SR 2144 (Fayetteville Road) intersection. Install directional crossover.	N/A	N/A
Chatham	US 421 (Future I-685)	Safety	W-5808B	NC 902 intersection.	NC 902 intersection. Construct reduced conflict intersection.	\$ 100,000	Right-of-way in progress.
Chatham, Lee	SR 1007 (Plank Road)	Bridges	HB-0034	Bridge 180169 over Deep River.	Bridge 180169 over Deep River. Replace bridge.	\$ 325,000	N/A
Cumberland	CSX A Line	STI (Prioritization)	RP-0002	Hay Street Crossing 629881F in Fayetteville.	Hay Street Crossing 629881F in Fayetteville. Construct grade separation and close at-grade crossing.	\$ 13,600,000	N/A
Cumberland	Fayetteville Area System of Transit	STI (Prioritization)	TA-6685	Systemwide	Systemwide. Purchase expansion bus.	\$ 49,000	N/A
Cumberland	Fayetteville Area System of Transit	STI (Prioritization)	TP-0005	Route 3.	Route 3. Add shelter packages to existing stops.	\$ 43,000	N/A
Cumberland	NC 24 (North Bragg Boulevard)	STI (Prioritization)	U-5930	SR 1451 (Manchester Road) intersection in Spring Lake	SR 1451 (Manchester Road) intersection in Spring Lake. Construct interchange.	\$ 10,000	N/A
Cumberland	NC 59	Bridges	B-4491	Bridge 250022 over I-95 Business / US 301.	Bridge 250022 over I-95 Business / US 301. Replace bridge.	\$ 22,545,000	Complete.
Cumberland	New Route	Economic Development	HE-0012	New route in Fayetteville.	New route in Fayetteville. Construct new access road and improvements at SR 1838 (Dunn Road) intersection.	\$ 20,000	Under construction. This is an economic development project for NVR, INC.
Cumberland	Spring Lake	Locally Selected	EB-6041	Near the Little River in the Town of Spring Lake	Near the Little River in the Town of Spring Lake. Construct greenway trail.	\$ 190,000	N/A
Cumberland	NC 24/NC 87	N/A	H-0020	SR 1117/Nursery Road to SR 1451/East Manchester Road/West Manchester Road.	Widen from 4 lane with median – partial control to 6 lane divided with paved shoulders; LOCALID H150694-B	N/A	N/A
Cumberland	SR 1400 (Cliffdale Road)	N/A	HS-2406V	N/A	SR 1593 (Hoke Loop Road) intersection. Install signalized pedestrian crossing.	N/A	N/A
Cumberland	SR 1404 (Hay Street / Morganton Road)	Safety	W-5706U	SR 3578 (Fort Bragg Road), Oakridge Avenue, and Highland Avenue intersections in Fayetteville.	SR 3578 (Fort Bragg Road), Oakridge Avenue, and Highland Avenue intersections in Fayetteville. Upgrade traffic signals and improve pedestrian crossings.	\$ 100,000	Under Construction.

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Cumberland	SR 1404 (Morganton Road)	N/A	HS-2406AA	N/A	SR 1596 (Glensford Drive)/Cross Creek Mall, Cross Point/Cross Creek Mall, and US 401 (Skibo Road) in Fayetteville. Upgrade traffic signal and install pedestrian signal heads and crosswalks.	N/A	N/A
Cumberland	SR 1404 (Morganton Road)	Safety	HS-2406R	McPherson Church Road.	McPherson Church Road. Install/upgrade crosswalks, crosswalk ramps signalized pedestrian heads, and traffic signal.	\$ 300,000	N/A
Cumberland	SR 1404 (Morganton Road)	N/A	HS-2406Z	N/A	Sycamore Dairy Road, SR 1007 (All American Expressway) northbound ramp, and southbound ramp. Upgrade traffic signal and install pedestrian signal heads and crosswalks.	N/A	N/A
Cumberland	SR 1414 (Broadfoot Road)	Safety	HS-2006Z	Arsenal Avenue intersection in Fayetteville.	Arsenal Avenue intersection in Fayetteville. Install crosswalks with pedestrian signal head.	\$ 390,000	N/A
Cumberland	SR 1415 (Yadkin Road)	Safety	HS-2006A	US 401 (Skibo Road), SR 1437 (Sante Fe Drive), and Southwick Drive intersections.	US 401 (Skibo Road), SR 1437 (Sante Fe Drive), and Southwick Drive intersections. Add signalized pedestrian crossings and upgrade signal.	\$ 467,000	N/A
Cumberland	SR 1596 (Glensford Drive)	Safety	HS-2006O	Berean Baptist Academy Entrance and Chambersburg Road intersection.	Berean Baptist Academy Entrance and Chambersburg Road intersection. Install rectangular rapid flashing beacons with refuge islands.	\$ 334,000	Under Construction.
Cumberland	SR 1600 (McArthur Road)	Safety	HS-2006V	SR 1615 (Rosehill Road / Stacy Weaver Road) in Fayetteville.	SR 1615 (Rosehill Road / Stacy Weaver Road) in Fayetteville. Construct signalized pedestrian accommodations.	\$ 190,000	N/A
Cumberland	SR 1615 (Rosehill Road)	Safety	W-5806C	Tamarack Drive and Landau Road intersections.	Tamarack Drive and Landau Road intersections. Construct mini-roundabouts.	\$ 75,000	Under Construction.
Cumberland	SR 1714 (Church Street)	Rail-Highway Grade Crossing Improvement	RX-2006A	CSX Crossing 629869Y in Wade.	CSX Crossing 629869Y in Wade. Install active warning devices.	\$ 800,000	N/A
Cumberland	SR 1716 (Jackie Lee Road)	Bridges	HB-0010	Bridge 250091 over Wade Canal.	Bridge 250091 over Wade Canal. Replace bridge.	\$ 120,000	N/A
Cumberland	SR 2311 (Gillespie Street)	Rail-Highway Grade Crossing Improvement	RX-2406C	Aberdeen & Rockfish Railroad Crossing 847218L in Fayetteville.	Aberdeen & Rockfish Railroad Crossing 847218L in Fayetteville. Construct highway-rail grade crossing safety improvements.	\$ 400,000	N/A

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Cumberland	US 401 (Pamalee Drive)	N/A	HS-2406W	N/A	Cain Road and Helen Street intersections. Upgrade traffic signal and install pedestrian signal heads and crosswalks.	N/A	N/A
Cumberland	US 401 (Skibo Road)	Safety	HS-2006X	SR 1007 (All American Freeway) northbound and southbound ramps in Fayetteville.	SR 1007 (All American Freeway) northbound and southbound ramps in Fayetteville. Install signalized pedestrian accommodations.	\$ 880,000	N/A
Cumberland	US 401 (Skibo Road)	Safety	HS-2406S	NC 24 / NC 87 (Bragg Boulevard) eastbound ramps (Swain Street).	NC 24 / NC 87 (Bragg Boulevard) eastbound ramps (Swain Street). Install/upgrade crosswalks and traffic signal.	\$ 730,000	N/A
Cumberland	Various	STI (Prioritization)	U-5742	Routes in Fayetteville.	Routes in Fayetteville. Install computerized traffic signal system.	\$ 9,034,000	Complete. Build NC: Bond Funding: \$574,684 for con payback 2019-2033 (FY 2019/Yr 1 sale).
Cumberland	Winslow	Rail-Highway Grade Crossing Improvement	RX-2406D	Aberdeen & Rockfish Railroad Crossing 847215R in Fayetteville.	Aberdeen & Rockfish Railroad Crossing 847215R in Fayetteville. Construct highway-rail grade crossing safety improvements.	\$ 400,000	N/A
Guilford	GTA	Locally Selected	TL-0055	J. Douglas Gaylon Depot	J. Douglas Gaylon Depot. Renovation phase 3.	\$ 1,600,000	N/A
Guilford	I-40 / Business 85 / US 29 / US 70 / US 220	Bridges	B-5356	Bridge 400299 over South Buffalo Creek in Greensboro.	Bridge 400299 over South Buffalo Creek in Greensboro. Replace bridge.	\$ 280,000	Right-of-way in progress coordinate with I-5965
Guilford	I-40 / Business 85 / US 29 / US 70 / US 220	STI (Prioritization)	I-5964	Elm Eugene Street interchange in Greensboro.	Elm Eugene Street interchange in Greensboro. Improve interchange.	\$ 250,000	N/A
Guilford	I-73 / US 421	Pre-STI (Historic)	U-2524AE	Greensboro Western Loop, interchange at proposed SR 4121 (High Point Road) relocation	Greensboro Western Loop, interchange at proposed SR 4121 (High Point Road) relocation. Construct interchange.	N/A	Under construction.
Guilford	Lowdermilk Street / Sykes Avenue / Pine Street	Rail-Highway Grade Crossing Closure	Y-4807B	SR 3163 (East Market Street) intersections in Greensboro	SR 3163 (East Market Street) intersections in Greensboro. Realign Lowdermilk Street and Sykes Avenue including relocation of crossing (#722958T) and close Pine Street crossing (#722957L).	\$ 2,430,000	Under construction.
Guilford	Murrow Boulevard	Locally Selected	EL-5101DR	Murrow Boulevard bridge over Church Street	Murrow Boulevard bridge over Church Street. Repair bridge deck and complete greenway across structure.	\$ 1,440,000	Under construction.
Guilford	Murrow Boulevard	N/A	HL-0168	N/A	Bridge #400462. Rehabilitate bridge.	N/A	N/A

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Guilford	NC Railroad / Norfolk Southern NC Line	STI (Prioritization)	RP-0003	SR 1549 (Mackay Road) intersection in Greensboro	SR 1549 (Mackay Road) intersection in Greensboro. Construct grade separation and close existing at-grade crossing (#722359x). Includes relocating Atwater Drive.	\$ 8,400,000	N/A
Guilford	Norfolk Southern	STI (Prioritization)	P-5721	Jamestown siding in Jamestown.	Jamestown siding in Jamestown. Construct extension.	\$ 407,000	Funding reflects participation by Norfolk Southern Corporation.
Guilford	Norfolk Southern H Line	STI (Prioritization)	P-5709	Franklin Boulevard Crossing (722959A) in Greensboro and O'Ferrell Street Crossing.	Franklin Boulevard Crossing (722959A) in Greensboro and O'Ferrell Street Crossing. Construct grade separation at Franklin Boulevard crossing (722959A) in Greensboro, and close O'Ferrell Street crossing (722961B).	\$ 3,484,000	Funding reflects participation by Norfolk Southern Corporation right-of-way in progress.
Guilford	Norfolk Southern Main Line	STI (Prioritization)	P-5735	SR 1584 (Yanceyville Street) crossing in Greensboro.	SR 1584 (Yanceyville Street) crossing in Greensboro. Construct grade separation and close crossing 722542d.	\$ 1,270,000	Funding reflects participation by Norfolk Southern Railroad.
Guilford	North Carolina Railroad / Norfolk Southern	STI (Prioritization)	P-5713	SR 1424 (Hilltop Road) in Greensboro.	SR 1424 (Hilltop Road) in Greensboro. Upgrade at-grade crossing to grade separation.	\$ 9,100,000	Funding reflects Norfolk Southern railroad participation funding.
Guilford	North Carolina Railroad / Norfolk Southern H Line	STI (Prioritization)	P-5747	South English Street crossing in Greensboro.	South English Street crossing in Greensboro. Construct grade separation and close crossing 722955X.	\$ 1,500,000	Funding reflects participation by Norfolk Southern Railroad.
Guilford	North Carolina Railroad / Norfolk Southern Main Line	STI (Prioritization)	RP-0007	SR 1352 (Oakdale Road).	SR 1352 (Oakdale Road). Construct grade separation and close crossing #722355v.	\$ 12,000,000	N/A
Guilford	Patton Avenue	Bridges	B-5718	Bridge 400329 over I-40 / Business 85 / US 29 / US 70 / US 220 in Greensboro.	Bridge 400329 over I-40 / Business 85 / US 29 / US 70 / US 220 in Greensboro. Replace bridge.	\$ 202,000	Coordinate with I-5965
Guilford	Phillips Avenue	Bridges	BR-0081	Bridges 400283 and 400342 over US 29 / US 70 / US 220	Bridges 400283 and 400342 over US 29 / US 70 / US 220. Replace bridge.	\$ 1,150,000	N/A
Guilford	SR 1001 (Church Street)	Locally Selected	HL-0164	Old Lake Janette Road intersection.	Old Lake Janette Road intersection. Construct Roundabout.	\$ 500,000	HF funds represent high impact/low cost funds.
Guilford	SR 1007 (Randleman Road)	Safety	HS-2407B	Webster Road intersection	Webster Road intersection. Install traffic signal.	\$ 5,000	N/A
Guilford	SR 2085 (Bryan Boulevard)	STI (Prioritization)	U-6008	New Garden Road at Horsepen Creek Road in Greensboro.	New Garden Road at Horsepen Creek Road in Greensboro. Interchange improvements, including new ramp from westbound new garden road to westbound SR 2085 (Bryan Boulevard).	\$ 680,000	N/A

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Guilford	SR 2124 (Lewiston Road)	STI (Prioritization)	U-6016	SR 2136 (Fleming Road) intersection in Greensboro.	SR 2136 (Fleming Road) intersection in Greensboro. Construct intersection improvements.	\$ 350,000	Right-of-way in progress.
Guilford	SR 2334 (Air Harbor Road)	STI (Prioritization)	U-6019	SR 2347 (Lake Brandt Road)	SR 2347 (Lake Brandt Road). Construct turn lanes and sidewalks.	\$ 425,000	Under construction.
Guilford	SR 2526 (Summit Avenue)	Safety	HS-2407A	Textile Drive intersection	Textile Drive intersection. Install pedestrian signal heads, crosswalks, and other intersection improvements.	\$ 5,000	N/A
Guilford	SR 2531 (Hillcroft Road)	Rail-Highway Grade Crossing Improvement	RX-2007C	Crossing 722545Y near Greensboro	Crossing 722545Y near Greensboro. Install active warning devices.	\$ 800,000	Under construction.
Guilford	SR 3058 (Judge Adams Road)	Transition	B-4960	Bridge 400214 over Little Alamance Creek.	Bridge 400214 over Little Alamance Creek. Replace bridge.	\$ 3,514,000	Under Construction.
Guilford	SR 4121 (Gate City Boulevard)	N/A	HS-2407T	N/A	Holden Road intersection. Upgrade traffic signal.	N/A	N/A
Guilford	SR 4240 (East Gate City Boulevard) / Lee Street	Safety	HS-2007I	I-40 Westbound ramp intersection.	I-40 Westbound ramp intersection. Install traffic signal and turn lane improvements.	\$ 5,000	N/A
Guilford	SR 4240 (Gate City Boulevard)	Bridges	B-5717	Bridges 400109 and 400121 over South Buffalo Creek in Greensboro.	Bridges 400109 and 400121 over South Buffalo Creek in Greensboro. Replace bridges.	\$ 710,000	Under construction. "HF" funds reflect state bridge program funding.
Guilford	Sullivan Street	Bridges	BR-0080	Bridge 400331 over US 29 / US 70 / US 220	Bridge 400331 over US 29 / US 70 / US 220. Replace bridge.	\$ 805,000	N/A
Guilford	Tuscaloosa Street	Bridges	BR-0079	Bridge 400302 over US 29 / US 70 / US 220	Bridge 400302 over US 29 / US 70 / US 220. Replace bridge.	\$ 1,800,000	N/A
Guilford	US 220 Eastbound	Safety	W-5807A	SR 2526 (Summit Avenue) ramp terminals in Greensboro.	SR 2526 (Summit Avenue) ramp terminals in Greensboro. Modify channelization island, install traffic signal, pedestrian heads, and crosswalks.	\$ 135,000	Under construction.
Guilford	US 29	Safety	HS-2007G	Lakeview Memorial Park Cemetery entrance intersection.	Lakeview Memorial Park Cemetery entrance intersection. Construct directional crossover.	\$ 410,000	N/A
Guilford	US 29 Northbound	Safety	HS-2407C	SR 2613 (North O'Henry Boulevard) in the vicinity of Joe Brown Drive; SR 2937 (North O'Henry Boulevard) in the vicinity of the flea market; SR 2622 / SR 5235 (Corbin Road)	SR 2613 (North O'Henry Boulevard) in the vicinity of Joe Brown Drive; SR 2937 (North O'Henry Boulevard) in the vicinity of the flea market; SR 2622 / SR 5235 (Corbin Road). Close directional leftovers.	\$ 615,000	N/A
Guilford	US 421 (Future I-685)	Pre-STI (Historic)	R-2612	SR 3389 (Woody Mill Road) and SR 3418 (Neelley Road) south of Greensboro.	SR 3389 (Woody Mill Road) and SR 3418 (Neelley Road) south of Greensboro. Upgrade at-grade intersections to interchanges.	\$ 41,680,000	N/A

County	Route	Funding Program	Project ID	From/to	Description	Funding	Phase
Guilford	US 70 (Wendover Avenue)	N/A	HS-2407M	N/A	Ramps on east side of Holden Road interchange. Install guardrails.	N/A	N/A
Guilford	US 70 (Wendover Avenue)	STI (Prioritization)	U-2525CA	US 70 (Wendover Avenue) at US 29 Interchange	US 70 (Wendover Avenue) at US 29 Interchange. Replace and upgrade overhead signs.	\$ 100,000	Under construction.
Guilford	Various	Pre-STI (Historic)	C-5555	Locations in Greensboro	Locations in Greensboro. Construct sidewalks.	\$ 1,029,000	Planning/design/right-of-way/construction by city of Greensboro
Guilford	Willow Road	Bridges	B-5713	Bridge 400352 over I-40 / Business 85 in Greensboro.	Bridge 400352 over I-40 / Business 85 in Greensboro. Replace bridge.	\$ 100,000	N/A
Harnett	Edgerton Street	Rail-Highway Grade Crossing Improvement	RX-2006D	CSX Crossing 629752R in Dunn.	CSX Crossing 629752R in Dunn. Construct safety improvements.	\$ 446,000	N/A
Harnett	Harnett Area Rural Transit System	STI (Prioritization)	TP-0006	Systemwide.	Systemwide. Purchase two expansion vehicles to support on demand services.	\$ 260,000	N/A
Harnett	Harnett Street	Rail-Highway Grade Crossing Improvement	RX-2006C	CSX Crossing 629751J in Dunn	CSX Crossing 629751J in Dunn. Construct safety improvements.	\$ 446,000	N/A
Harnett	NC 87 / NC 24	STI (Prioritization)	U-5933	SR 1117 (Nursery Road) intersection north of Fayetteville	SR 1117 (Nursery Road) intersection north of Fayetteville. Construct intersection improvements.	\$ 700,000	Under Construction.
Harnett	SR 1210 (Hoover Road)	Bridges	B-6005	Bridge 420234 over Barbeque Swamp.	Bridge 420234 over Barbeque Swamp. Replace bridge.	\$ 1,465,000	Complete.
Harnett	SR 1214 (Mount Pisgah Church Road)	Bridges	HB-0008	Bridge 420034 over Upper Little River.	Bridge 420034 over Upper Little River. Replace bridge.	\$ 330,000	N/A
Harnett	US 401 (Main Street)	Rail-Highway Grade Crossing Improvement	RX-2006F	Raleigh & Fayetteville Railroad Crossing 465860F in Lillington.	Raleigh & Fayetteville Railroad Crossing 465860F in Lillington. Construct safety improvements.	\$ 345,000	Under Construction.
Lee	SR 1400 (Cumnock Road)	Bridges	B-5976	Bridges 520069 and 520070 over Norfolk Southern Railroad.	Bridges 520069 and 520070 over Norfolk Southern Railroad. Replace bridges.	\$ 413,000	N/A
Lee	US 1 Business (Carthage Street / Charlotte Avenue)	Rail-Highway Grade Crossing Improvement	RX-2008E	Crossing 721059F in Sanford	Crossing 721059F in Sanford. Construct safety improvements.	\$ 450,000	N/A
Randolph	SR 1950 (West Naomi Street)	STI (Prioritization)	EB-5898	West Academy Street to US 220 Business (South Main Street) in Randleman	West Academy Street to US 220 Business (South Main Street) in Randleman. Construct sidewalk, implement road diet, and install raised crosswalk and median.	\$ 50,000	N/A
Randolph	SR 2481 (Low Bridge Road)	Bridges	B-5546	Bridge 750307 over Mount Pleasant Creek.	Bridge 750307 over Mount Pleasant Creek. Replace bridge.	\$ 123,000	Under Construction. Let with B-5360; Construction cost is included in that project.
Randolph	SR 2502 (Julian Airport Road)	Rail-Highway Grade Crossing Improvement	RX-2008F	Crossing 720943W in Liberty	Crossing 720943W in Liberty. Construct safety improvements.	\$ 411,000	N/A

Table A-2. Planned Transportation Projects Identified in MPO and County CTPs

Comprehensive Transportation Plan	Proposed Projects in Study Area
Greensboro Urban Area MPO (GUAMPO) CTP (2020)	- US 421 Interchange was a proposed project (TIP No. R-2612A/B). US 421 interchange with a realignment of Woody Mill (SR 3394) and Company Mill Road were under construction. - I-73/I-74 Airport connector (TIP No. I-4924). This project will enhance the east-west facilities linkage. The connector will provide access to the growing areas of Kernersville and western Guilford County, and it will also relieve traffic congestion on I-40/US 421 and I-40 in eastern Guilford County. - Vandalia Road. Extension across Joseph M Hunt Jr Expressway and along Edgemont Road connecting to Alamance Church Road. Interchange will be constructed at the expressway.
Randolph County CTP (2013)	- US 421, as Strategic Highway Corridor, identified as "Needs Improvement" for highway, upgrade to freeway standards from NC 49 to Guilford County implementing full control of access along the facility. An interchange is recommended at Deviney Road/Shiloh Road (SR 2407) and a grade separation at Starmount Road/Shiloh Road (SR 2407)." (LOCALID RAND0001) - Recommended multi-use path that crosses US 421 between Franklinville and Liberty; two on-road bike routes that cross US 421 identified as "Needs Improvement."
Chatham County CTP (2013) and (2016)	2013 Recommendations: - US 421 - from approximately 0.3 mile south of South Chatham Avenue Extension (SR 2113) to the Lee County line (approximately 14.5 miles) improve to four-lane median-divided freeway. 2016 Recommendations: - US 64 Bypass recommended to the north of Siler City (Local ID: CHAT0003-H). About 3.9 miles of the facility would be a four-lane divided freeway on new location connecting US 64 west of Siler City northeast to existing US 421. Existing US 421 would serve as a portion of the proposed bypass, connecting with US 64 east of town. The project would include new interchanges at locations where US 64 joins US 421. - US 421 Improvements from Sam Fields Road (SR 2113) to Lee County Line (Local ID: CHAT0005-H). US 421 is recommended to be upgraded to a controlled access 4-lane divided freeway facility. The implementation includes several grade separations and interchanges. Two grade-separated rail crossings on US 421 south of Goldston near the Lee County line. - Old US 421/Zion Church Road connector (CHAT0008-H). This connector will allow efficient access of large trucks and connectivity to an existing rail line near a major commercial development. The site is close to US 421.
Lee County CTP (2019)	- US 421 (Horner Boulevard) improvements (from US 1/15/501 to Harnett County line). Improvements include widening to a 4-lane, median-divided boulevard with a capacity of approximately 48,000 vpd. Sidewalks are recommended where warranted. - US 1 improvements (Local ID: LEE0001-H). US 1 has been identified as a Strategic Highway Corridor and is a major north-south highway. Traffic volumes projected 2035 reflect roadway capacity deficiencies along segments of US 1 north of US 15-501. These traffic volumes range between 53,000 and 84,000 volume per day (vpd) for this segment of US 1 in study year 2035. The proposed 6-lane cross section would have a capacity of approximately 90,000 vpd and should mitigate all facility deficiencies for the study year. - NC 87 Corridor improvements south of US 421 (Horner Boulevard) to Harnett County line (Local ID: LEE0004-H). The recommendations include splitting into 4-lane divided boulevard facility and 4-lane divided expressway facility. Other recommendations include sidewalk, wide shoulder to serve as a bicycle lane, and a new interchange. - US 15-501 Business (Hawkins Avenue) from US 1-15-501 to Burns Drive (SR 1406) (Local ID: LEE0008-H). Widen to 4 lanes and upgrade to a median-divided boulevard. Bicycle lanes are recommended for the length of the project. - US 421/NC 87/Sanford Bypass/ Boone Trail Road. Recommendation includes widening and upgrading to a freeway facility.

Comprehensive Transportation Plan	Proposed Projects in Study Area
Harnett County CTP (2013) (amended in 2017)	• R-2609: Widen existing US 401 facility to a 4-lane boulevard throughout Harnett County. In Lillington, construct the Lillington (US 401) Bypass on new location from Stock Yard Road (SR 2045) to Spence Road (SR 1457). Construct interchanges at US 401, NC 27, US 421, and NC 210. Construct grade separations at Shawtown Road (SR 1133), McDougald Road (SR 1229), Old US 421 (SR 1291), South River Road (SR 1247), and the Rails to Trails Multi-use path. This proposed project intersects the corridor and may impact volumes on NC 24/NC 87 if constructed. • R-2529: Widen NC 24/27 to a 4-lane expressway (Moore County line to NC 27). From NC 27 to NC 87 widen existing NC 24 to a 4-lane expressway. • Dunn/Erwin (US 421) Bypass: Construct a new location US 421 Bypass from Avery Road (SR 2013) to Jonesboro Road (SR 1808) and along existing Jonesboro Road (SR 1808) from US 421 Bypass to I-95. Interchanges are recommended at Avery Road (SR 2013), US 301, Red Hill Church Road (SR 1703), NC 55, and the Powell Street Extension. Grade separations are recommended at Ashe Avenue (SR 1725), Meadowlark Road (SR 1715), Fairground Road (SR 1705), and at the railroad crossing. (SPOTID HARN0010A/B-H). • Improve NC 87 to a 4-lane expressway facility from the Lee County line to Cumberland County line (SPOTID HARN0015-H). NC 87 is a major facility in Harnett County providing a vital connection for residents in the area that travel south to Fort Bragg and Fayetteville. It currently has a 4-lane and 5-lane cross-section from the Lee County line to the Cumberland County line and is a Strategic Highway Corridor. This portion of NC 87 is projected to be over capacity by 2035. • Northern Lillington Connector: Construct freeway on new location from US 401 Bypass to US 421. Reroute NC 210, NC 27, US 401, and US 421 on this facility. Construct grade separations at the railroad crossing, Matthews Road (SR 1436), Sherriff Johnson Road (SR 1516), and Neil’s Creek Road (SR 1513). Construct new interchanges at NC 210 and US 421. (SPOTID HARN0001-H). • Widen NC 210 (SPOTID HARN0016-H) to a four-lane boulevard between US 401 Business south of Lillington and the Cumberland county line to enhance safety and accommodate projected traffic.
FAMPO and Cumberland County CTP (2023)	• Multiuse path on NC 24 (Clinton Road) SR 1006/Front Street, to have better connection between other proposed projects. • U-4403: Widen US 401/US 401 Business/SR 3950 (Ramsey Street) from NC 24/210 (Grove Street) to North of SR 1710 (Slocumb Road) to Multi-Lanes. • Widen I-95 (US 301 to north of I-95) to eight lanes. This is a Statewide Mobility project that assists with congestion and mobility. • Widen NC 24/NC 87 (Sprout Springs to SR 1117/Nursery Road) from 4 lane with median – partial control to a-6 lane divided with Jersey Barrier with paved shoulders. (LOCALID H150694-A) • Widen NC 24/NC 87 (SR 1117/Nursery Road to SR 1451/East Manchester Road/West Manchester Road) from 4 lane with median – partial control to a-6 lane divided with paved shoulders. (STIP H-0020; LOCALID H150694-B) • R-2529: Widen NC 24/27 from Carthage Bypass to NC 87 Harnett/Moore County to a 4-lane boulevard. This project is a statewide mobility project that assists with congestion and mobility. • R-2609: Widen US 401 (North of Slocumb Road to NC 217) to 4A-A lane divided with paved shoulders. It is a Regional Impact project that assists with congestion and mobility. • U-4900: Improvements on NC 210 (Murchison Road) from I-295 to US 401 bypass to a 4-lane median divided facility to include access management improvements such as replacing the continuous center left turn lane with a raised median, directional crossovers, U-turn bulb outs, and bicycle and pedestrian accommodations. • H192525: Improvements on NC 210 (Rowan Street to Langdon Street) to add raised center median and bicycle and pedestrian accommodations (sidewalk and multi-use path).

Table A-3. Local Land Use Plans

Plan Name (listed by locality geographic location from north to south along corridor)	Area	Year	Plan Elements	Findings
Guilford County Comprehensive Plan	Guilford County	2024	- Community Outreach - Existing Conditions - Future Land Use - Planning Themes - Action Playbook	- Major mixed-use center/regional employment identified east of Pleasant Garden near US 421 (around Greensboro-Randolph Megasite). - There is a Megasite located in Liberty, NC, just south of the Guilford County line accessed from US 421, that is being developed as a Toyota battery plant. - Current infrastructure needs along the US 421 Corridor will be unable to meet future economic and residential demand.
City of Greensboro Comprehensive Plan	City of Greensboro	2020	- History of Greensboro - The Greensboro Vision - Filling in Our Framework - Creating Great Places - Becoming Car Optional - Prioritizing Sustainability - Building Community Connections - Growing Economic Competitiveness - Growth, Development, and Urban Form - Implementation	- The Greensboro-Randolph Megasite is a 1,500-acre advanced manufacturing site that relies on the US 421 corridor for access. - The presence of recently installed water and sewer lines extending to the site, and the possibilities for residential and supporting land uses, may continue to drive new requests for development and access to City services along the US 421 corridor southwest of Greensboro.
Town of Pleasant Garden Comprehensive Land Use Plan	Town of Pleasant Garden	2008	- Populations & Demographics - Economic Development - Environment & Natural Resources - Historic & Cultural Resources - Community Facilities - Transportation - Housing - Land Use - Implementation Strategies	- Two retail centers are proposed near the future US 421/Woody Mill Road interchange east of Pleasant Garden. - New potential commercial development proposed near the US 421/Neelley Road interchange and the Ritters Lake Road corridor. - The US 421/Neelley Road interchange is the prime location for future retail development in Pleasant Garden, particularly a grocery-anchored neighborhood center. This location could also potentially support a large planned-unit development (PUD) with a mix of housing (single family, town homes, and age-restricted units), retail, and professional office space. The PUD would be visible from US 421, have easy access, and would be close to large residential neighborhoods and existing water and sewer lines. - For fiscal year 2006-2012, the only funded construction projects were the US 421 interchanges on the eastern edge of Pleasant Garden: Neelley Road and Woody Mill Road interchanges. - There is one pedestrian recommendation to construct a multi-use path/side-path along Hagan-Stone Park Road to provide pedestrian access to Hagan-Stone Park. This side-path should connect the multi-use trail that is recommended for the US 421 roadway corridor. - US 421 acts as a major obstacle for trail crossings along the Big Alamance Creek Greenway. - Two retail centers are proposed near the future US 421/Woody Mill Road interchange east of Pleasant Garden. - Public comments note lack of access to US 421. Alliance Church Road is cut off from it.
Northeast Randolph County Growth Management Plan	Randolph County	2023	- Visioning - Mapping Future Growth - Growth Management Policies and Recommendations - Existing Conditions	- References the Greensboro Randolph Megasite and how it will offer convenient access to the Carolina Core corridor via US 421. - A US 421 corridor study is underway from the county line northwest towards Greensboro. - Recommends prioritizing transportation projects to secure State Transportation Improvement Program, Recreational Trails Program, and transit funding along key corridors such as US 421. - Recommends recognize the value of special scenic corridors as an entryway to Randolph County, which can influence the perception of individuals or firms considering investment in the County. Examples of such corridors include US 421. - Proposed interchanges along US 421 are located northwest of Liberty.

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Randolph County Strategic Plan	Randolph County	2016	- Recommended Goals - Public Health - Public Safety - Well-Being - Plan Implementation	Transportation goal to continue to prioritize transportation projects to secure State Transportation Improvement Program funding along key corridors such as US 421.
Town of Liberty Land Development Plan	Town of Liberty	2024	- Existing Conditions - Public Involvement and Community Input - Desing Guidelines, Vision, and User Guide - Development Plan – Policies and Recommendations - Future Land Development and Implementation	- The Randolph County CTP identified US 421 to upgrade to freeway (or interstate) standards with an interchange Shiloh/Deviney Road and grade separation at Starmount Road. - The plan says that businesses such as hotels, fast food stores, automobile sales lots, and convenience stores are better suited for development near the US 421 interchanges. - Recommends creating a Small Area Plan for the proposed commercial area at the intersection of US 421 and Old Liberty Road. - Recommends creating a Small Area Plan for the proposed commercial area at the intersection of US 421 and Old 421/NC 49. Consider a connector street to Starmount Road to create a more efficient development pattern and efficient access to the Greensboro-Randolph industrial Megasite. - Several “activity centers” are recommended along major intersections of US 421 and other highways that are gateways into Liberty. These interchanges and intersections represent prime locations for pedestrian scale mixed-use retail centers, office parks and high-density housing.
N/A	Town of Staley	N/A	N/A	No Land Use Plans Identified.
Plan Chatham Comprehensive Plan	Chatham County	2020	- Economics and Growth - Land Use - Housing and Demographic Trends - Agriculture - Infrastructure - Environment - Parks and Health - Vision goals and future land uses - Policy recommendations and strategies - Action Items	- Recommends interchange access on US 421 approximately 1 mile northwest of Poe Road (SR 1310) with a new location facility (two lanes, undivided) from US 421 to Zion Church Road (SR 1311), the addition of turn lanes at all major intersections on NC 87 from US 64 to Silk Hope Gum Springs Road (SR 1346), and construction of a four-lane median-divided freeway facility from US 64 and West Third Street (SR 1107) west of Siler City northeast to US 421 with interchanges at US 64, Old US 421, and US 421. - Recommends the identification of a site for a future park-and-ride lot location near the US 64/US 421 interchange in Siler City.
Future Land Use and Conservation Plan Map	Chatham County	2017	N/A	The map identifies large employment centers northwest of Siler City (just west of US 421) and along US 421 in Goldston.
Siler City Comprehensive Land Use Plan	Town of Siler City	2024	- Envision (Land Use) - Future Land Use Map and Character Areas - Goals and Recommendations - Live (Housing) - Thrive (Economic Development) - Move (Transportation) - Involve (Community Engagement and Involvement) - Experience (Arts, Culture and History) - Conserve (Natural Resources, Parks & Recreation) - Serve (Public Services) - Implementation	- Area around Old US 421 is categorized as industrial. Wolfsped to locate in the area and is anticipated to bring residential and commercial growth over the next 10 to 20 years. - Considering rezonings for areas suitable for industrial, flex, and warehouse distribution along US 421 east of town. - U-5737 located on US 64 between North Glenn Avenue to the west and US 421 to the east. Construction is scheduled for 2028 and includes the addition of a median for access control and sidewalks. - Carolina Core Parkway: Plans for a parkway linking US 64 to US 421 through the CAM Site have been developed by NCDOT. This would fulfill a need identified in the 2017 Chatham County CTP to provide a northern bypass around Siler City. - The town operates a 4 million gallon per day (MGD) water treatment plant (WTP), located just north of US 421 North at the Charles B. Brooks Reservoir along the Rocky River. - Town owns and operates a wastewater treatment plant (WWTP) with a current capacity of 4 MGD that discharges into Loves Creek, tributary to the Rocky River, in the Cape Fear River Basin just east of US 421 South.

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North Village Small Area Plan	Chatham Park	2023	- North Village Thoroughfare Plan - Transportation Notes - Typical Roadway Sections	The NCDOT Travel Demand Model provides evidence of need for two North-South boulevards connecting US-64 Business to Chatham Park north of US 64 Business. The typical section for these would include multi-use trails.
Town of Goldston Land Use Plan	Town of Goldston	2021	- Existing Conditions - Community Goals - Future Conditions	References the Comprehensive Transportation Plan (CTP), which includes improvements to upgrade the US 421 Bypass to a full freeway, with access only at interchange ramps (located outside Town limits but will impact access to the Town).
Plan SanLee Land Use Plan	Lee County	2018	- Land Use Plan Vision - Future Land Use - Implementation	- Lists the same STIP projects as shown below for the City of Sanford Land Use Plan. - SPOTID H-090760: Enhancement to US 421 east of its connection to US 421 Business, from Sanford, crossing US 421 Bypass, extending to Lillington in Harnett County. - SPOTID H-171637: Conversion of NC 87 (Horner Boulevard) from a 5-lane road to a synchronized road from US 421 Business (Wilson Road) to SR 1138 (Harvey Faulk Road). - Kelly Drive area is planned for wastewater infrastructure expansion and has efficient access to US 421.
City of Sanford Land Use Plan	City of Sanford	2018	- Land Use Purposes - Future Land Use and Development - Implementation	- Several transportation projects mentioned include: - R-2417: US 421/ NC 87 Multilane Freeway on new location. - U-5722: US 421 Business/ NC 187 Reconstruct as a “Complete Street” with improvements such as medians, sidewalks, bicycle facilities, and streetscaping. - SPOTID H090760: US 421, US 401 to NC 87 Enhance corridor from Lillington in Harnett County to Sanford in Lee County - The future land use map shows the majority of industrial centers located northeast of US 421.
N/A	Town of Broadway	N/A	N/A	No Land Use Plans Identified.
Harnett Horizons 2040 Comprehensive Plan	Harnett County	2024	- Land Use - Transportation	- Recommendation for four county village districts, which would be intended for mixed use with “walkable centers with integrated greenspace.” One district straddles US 401 north of Lillington, another around US 421 at Campbell University, and the third northwest of Spout Springs around NC 24 and NC 87. - A study for US 401 between Lillington and Fuquay-Varina is referenced, with a recommendation for alignment along the Angier Bypass and NC 210 in Harnett County. - Reference to Northwest Harnett Area Plan for construction of collector streets parallel to major roadways to disperse traffic. - Recommendations within the plan to improve access into the county from the north and to prioritize mobility to and from Fort Bragg: - Short-term improvements along NC 210 and US 401 such as traffic signals and turn lanes. - Widen NC 210 between Lillington and Angier - Manage access on NC 210 and US 401. - Manage access along NC 87 - Identify corridor and intersection improvements to alleviate congestion on NC 87, Nursery Road, Overhills Road, etc.
County Village District Design Guide	Harnett County	2023	N/A	More detailed road characteristic and zoning layouts for each of the village districts listed in the county’s comprehensive plan.
Lillington Land Use Plan	Town of Lillington	2015	- Background - Plan Recommendations - Implementation	- Strategic highway corridors including NC 87, NC 24, and US 401 are marked as needing upgrades. - US 421 connects the town to employment and government centers in urban areas and to the larger towns, such as Sanford and Dunn, in Harnett and adjacent counties. - Includes US 401 bypass corridor alternatives that were under consideration. - Proposed US 401 Lillington Bypass (R-2609) and Northern Lillington Connector

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Erwin Land Use Plan Update	Town of Erwin	2023	- Community Assessment - Recommendations	- One goal is to focus on the development of properties along US 421 for uses with a regional draw while promoting the small-town character of Erwin with gateway and corridor development standards. - Recommendation to work with Mid-Carolina RPO and NCDOT to make improvements to US 421 and follow the CTP. - Harnett County CTP called for new location of US 421 that would bypass Erwin and Dunn and connect to I-95. - HARN0010A/B/C/D-H: The US 421 bypass to I-95 would circumvent Erwin and Dunn and could impact growth in the northern part of both municipalities. - The CTP recommends improvements to offer an alternate route to I-95 south of Dunn to reduce the number of large trucks on US 421. This facility is recommended as a 4-lane expressway or freeway from US 421 to I-95. - On-road facilities and multi-use paths are recommended on East Jackson Boulevard (US 421 and NC 55) from Dunn to the Dunn-Erwin Rail Trail. - Includes the recommended Cape Fear Trail (Local ID: HARN0005-M) which is a 27.3-mile trail from the Cumberland County line to US 421. - Paved shoulders are recommended for US 421.
City of Dunn Land Use Plan	City of Dunn	2022	- Existing Conditions and Analysis - Recommendations	- There are plans to improve the I-95 interchange at US 421 (Exit 73). - There have been discussions about a US 421 bypass that would re-route truck traffic away from and around the center of Dunn, but it is not on NCDOT's current State Transportation Improvement Program.
City of Dunn Strategic Vision Plan	City of Dunn	2021	Goals and strategies, community brand, strategy board	N/A
North Central Land Use Plan	North Central Cumberland County and Town of Linden	2011	- Planning Process - Public Participation - Area Current Assessment and Projections - Area Natural and Physical Conditions - Outside Influences - Town of Linden - Linden Natural and Physical Conditions - Linden Current Assessment and Projections - Recommendations	- Completion of the Outer Loop will open the entire north and northeastern portion of the county to easy access to the military Installations. - A large portion of the study area will have public water and sewer available, which will make it a desirable area to live, thus spurring development. This desirability is driven by the area's easy accessibility to the mall area, the military reservation, and downtown Fayetteville. - Funding for the portion from Ramsey Street to All American Expressway is available and the construction is underway with a projected completion date of 2015. - One goal is to locate the more intense commercial development in the southern portion of the study area as close to I-295 as possible and where urban services are more readily available. - One goal is to promote the more intense industrial and manufacturing development in the southern portion of the study area as close to I-295 as possible, with rail access, and where urban services will be more readily available.
Southwest Cumberland Land Use Plan	Cumberland County	2013	- Overall Study Area - Hope Mills - Plan Recommendations	- Promotes the acceleration of the Camden Road widening project from US 59 to future I-295 interchange and I-295. - Promotes the acceleration of the construction of the Outer Loop (I-295) or construct a north/south connector road on the west side of Hope Mills. - Identifies activity nodes at the interchanges along the proposed Outer Loop.
(Included within the North Central Cumberland Land Use Plan)	Town of Linden	N/A	N/A	N/A
N/A	Town of Godwin	N/A	N/A	N/A

Plan Name (listed by locality geographic location from north to south along corridor)	Area	Year	Plan Elements	Findings
Spring Lake Area -Visioning the Future - A Land Use Plan	Town of Spring Lake	2022	- Existing Land Use - Engagement Results - Future Land Use - Recommendations	- Transportation-related recommendations include: - Realign Chapel Hill Road with McKenzie Drive at North Bragg Boulevard and upgrade Chapel Hill from North Bragg Boulevard (NC 24/87) to Lillington Highway (NC 210). - Extend Chapel Hill Road east to McCormick Road, upgrade McCormick Road, and extend it to Murchison Road (NC 87) at the NC 87/24 crossover at the stoplight. Tie the entrance to W.T. Brown Elementary School to the extended McCormick Road. - Provide sidewalks along the extension and upgrading of McCormick Road from Lillington Highway at Chapel Hill Road intersection to South Bragg Boulevard and at the NC 87/24 crossover at the stop light. - Relevant nearby planned projects: - Intersection improvements for Nursery Road (Proposed 2029) - Widen curves and install rumble strips on Nursery Road (Proposed 2022) - Construct interchange on Manchester Road (Proposed 2029) - Improve existing multi-lane facility by adding access management and other improvements to NC 87-24 (Proposed 2026) - Other key findings: - Delays/backups happen around the Manchester/Bragg Boulevard intersection, congestion goes as far north up NC 87 as the Shell Gas Station and as far south down Bragg Boulevard as AutoZone.
N/A	Town of Falcon	N/A	N/A	No Land Use Plans identified.
Wade Study Area Detailed Land Use Plan	Town of Wade	2003	- Existing Conditions - Community Facilities - Environmental Issues - Historic Resources - Past Plans, Policies, and Regulations - Citizen Participation - Goals and Objectives - Recommendations - Action Plan	- Displays map from Cumberland County Area Land Use Plans with proposed outer loop corridor and Highway 13 extension. - Growth is anticipated to continue within the Wade Study Area due to the Outer Loop/US 13 Extension and the availability of water and sewer service. - There is an activity node located at the intersection of River Road and the Outer Loop/US 13 Extension. This activity node denotes a proposed cluster of non-residential development at the interchange. - Vehicular circulation improvements should be included in the long-range thoroughfare plan for River Road and Wade-Stedman Road, including the widening from the Outer Loop to I-95 and realignment from west of Wade to Wade-Stedman Road at the curve between US 301 and I-95. - Strong considerations should be given to the provision of an overpass over the CSX Railroad Line. Dunn Road (US 301) widening from the Outer Loop to Sisk Culbreth Road also should be included in the long-range plan. - Recommends that any community, regional, or highway service type activities should be made to locate at the interchanges of Wade-Stedman Road with I-95, of River Road with the Outer Loop/US 13 Extension, as well as at the Outer Loop and I-95 Interchange outside the study area.
Eastover Study Area Detailed Land Use Plan	Town of Eastover	2000	- Existing Conditions - Community Facilities - Environmental Issues - Historic Resources - Past Plans, Policies, and Regulations - Citizen Participation - Recommendations	Two activity nodes are located at the intersection of River Road and I-295 as well as at the I-95 and I-295 interchange.
City of Fayetteville Future Land Use Plan	City of Fayetteville	2020	- Future Land Use - Goals - Policies and Strategies - Implementation Recommendations - Community Profile	Much of the vacant land within the city is located around the I-295 corridor. This is expected to change over the next decade as the project nears completion.

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(Included within the Southwest Cumberland Land Use Plan)	Town of Hope Mills	N/A	N/A	N/A
Diversion of Fort Bragg Access Traffic From Bragg Boulevard (NC Routes 24/87) Through Spring Lake to Vass Road / Lamont Road West of Cantonment Area	N/A	2018	N/A	- Bragg Boulevard presents opportunities for development and redevelopment to accommodate a variety of uses, including office and flex space, which is important for the Department of Defense Critical Contract Support industry cluster. - The Bragg Boulevard Corridor Plan analyzes existing conditions, including land use, zoning, development trends, and socioeconomic data; and presents three alternative concepts. - Pope and Simmons Army Airfields (AAFs) are located on either side of NC 24.
Fort Bragg Joint Land Use Study (JLUS), prepared by Benchmark Planning through MCRPO	Fort Bragg and the municipalities of Aberdeen, Eastover, Erwin, Fayetteville, Hoffman, Hope Mills, Laurinburg, Lillington, Pinebluff, Pinehurst, Raeford, Southern Pines, Spring Lake, Vass, Wagram, Whispering Pines	2018	- Regional Growth Trends - Land Use Trends - Environmental Factors - Fort Bragg - Land Use Compatibility Factors - Compatible Growth Framework - Recommendations	Requested and received GIS files for conserved lands and Critical and Important Compatible Use Protection Lands along project corridor and within alternative study area.
Cumberland County Fort Bragg Small Area Study (Update) Presentation	N/A	February 8, 2005	N/A	N/A