

Appendix D: Financial Analysis

Figure 10-1 shows the forecasted revenues for the Greensboro Urban Area 2040 Transportation Plan. The figure represents revenues for highway, transit, and maintenance in current year dollars.

Figure 10-1 — 2040 MTP Revenue Forecasts

2040 MTP Revenue Forecast									
(In Thousands of Dollars)									
Period	Federal and State Revenues (TIP)		State Maintenance	Local Revenues					
	Highway	Transit		GTA	PART	Powell Bill	Bonds-Maintenance*	Bonds-Capital	Totals
2016-2021	264,488	46,684	273,518	113,814	22,053	48,732	9,305	71,012	849,607
2022-2030	516,995	77,139	552,176	161,862	36,729	75,888	35,529	214,602	1,670,921
2031-2040	525,587	96,976	785,919	201,414	46,579	88,414	55,176	164,246	1,964,311
Totals	1,307,070	220,799	1,611,614	477,090	105,361	213,035	100,010	449,859	4,484,839

*includes roadway & bipped maintenance

Costs were developed for capital, operation, and maintenance. Capital costs are separated into roadway, transit, and non-motorized (bicycle and pedestrian) modes. The costs for each are summarized in Figure 10-2.

Figure 10-2 – 2040 MTP Cost Forecasts

2040 MTP Costs Forecast							
(In Thousands of Dollars)							
Period	Capital			Operating & Maintenance			Totals
	Highway	Transit	Non-Motorized	State Roads	Local Roads*	Transit	
2016-2021	211,457	22,218	43,800	273,518	58,037	113,516	722,547
2022-2030	695,158	42,753	35,720	552,176	111,418	203,241	1,640,466
2031-2040	719,877	54,899	42,000	785,919	143,590	266,733	2,013,018
Totals	1,626,492	119,870	121,520	1,611,614	313,045	583,490	4,376,030

Figure 10-3 summarizes the non-capacity roadway categories by horizon year. The costs shown in this figure have been reflected in the total costs shown in **Figure 10-2** for roadways.

Figure 10-3 — Non-Capacity Roadway Project Summary

Non-Capacity Roadway Projects Costs				
(In Thousands of Dollars)				
Period	Freeway Resurfacing *	Bridge Projects	Safety Projects	Railroad Improvements
2016-2021	N/A	27,960	0	10,271
2022-2030	N/A	14,589	7,855	15,000
2031-2040	N/A	14,589	7,855	15,000
Totals	N/A	57,138	15,710	40,271

The non-motorized total costs are included above in Figure 10-2. A detailed cost breakdown for sidewalks, trails, and the Downtown Greenway has been included in **Figures 10-4, 10-5, and 10-6**.

Figure 10-4— sidewalk detailed costs

Sidewalk Detailed Costs						
(In Thousands of Dollars)						
Period	Committed STP DA	Future STP DA	Bonds (Capital)	Bond (Maintenance)	Roadway Improvements	Total
2016-2021	18,000	9,800	0	0	0	27,800
2021-2030	0	0	7,500	5,000	5,000	17,500
2031-2040	0	0	7,500	5,000	5,000	17,500
Total	18,000	9,800	15,000	10,000	10,000	62,800

Figure 10-5 – Trail detailed costs

Trail Detailed Costs					
(In Thousands of Dollars)					
Period	Committed STP DA	Future STP DA	Bonds (Capital)	Bond (Maintenance)	Total
2016-2021	0	0	0	0	0
2021-2030	0	0	19,720	5,000	24,720
2031-2040	0	0	10,000	5,000	15,000
Total	0	0	29,720	10,000	39,720

Figure 10-6 – Downtown Greenway Costs

Downtown Greenway Costs (In Thousands of Dollars)				
Period	Bonds	Private	STP DA	Total
2016-2021	7,500	3,500	5,000	16,000
2022-2030	0	3,500	0	3,500
Total	7,500	7,000	5,000	19,500

Detailed capital costs for GTA and PART are included in **Figures 10-7 and 10-8**.

Figure 10-7 - GTA detailed capital costs

GTA Detailed Capital Costs (In Thousands of Dollars)	
2016-2021 (funding status noted)	
2 expansion small buses (unfunded)	136
25 replacement small buses (partly funded)	1,700
27 replacement buses large (partly funded)	12,294
Transit Security	305
15 HEAT replacement buses (unfunded)	4,900
Gaylon Depot Renovation (unfunded in TIP)	2,108
Total:	21,443
2022-2030 (funding status noted)	
49 replacement small buses (unfunded)	3,332
15 HEAT replacement buses (unfunded)	4,900
34 replacement buses (6 funded)	15,481
24 expansion buses (unfunded)	10,928
Transit Security (funded)	512
Total:	35,153
2031-2040 (all unfunded)	
57 replacement buses	25,953
65 replacement small buses (unfunded)	4,420
15 HEAT replacement buses (unfunded)	4,900
16 Expansion buses	7,285
16 expansion buses small	1,088
Transit Security	656
Total:	44,302
Grand Total:	100,898

Figure 10-8 - PART detailed capital costs

PART Detailed Capital Costs (In Thousands of Dollars)	
2016-2021	
23 replacement small buses	8,240
Park & Ride resurfacings	1,335
26 replacement vans	775
7 expansion vans	168
PART Operations & Maintenance Facility	11,000
Total:	21,518
2022-2030	
Park & Ride resurfacings	1,335
16 Replacement buses and shuttles	7,600
30 replacement vans	900
Total:	9,835
2031-2040	
23 Replacement buses and shuttles	8,240
Park & Ride resurfacings	1,335
23 replacement vans	686
14 expansion vans	336
Total:	10,597
Grand Total:	41,950

The following tables compare costs to revenues by mode of transportation, and further document that the plan meets the fiscal constraint test.

Figure 10-9 — Roadway Costs and Revenues

Roadway Costs and Revenues (In Thousands of Dollars)								
	Capital	Roadway Capital Revenues			Maintenance	Maintenance Revenues		Maintenance
Period	Costs	Highway TIP	Bonds	Capital Balance	Costs	State	Local	Difference
2016-2021	332,031	268,983	71,012	0	331,555	273,518	58,037	0
2022-2030	695,832	516,995	214,602	35,765	663,594	552,176	111,418	0
2031-2040	596,357	525,587	164,246	93,476	929,509	785,919	143,590	0
Totals	1,624,220	1,311,565	449,859	129,241	1,924,659	1,611,614	313,045	0

Figure 10-10 — GTA Transit Costs and Revenues

GTA Transit Costs and Revenues (In Thousands of Dollars)					
Period	O&M Costs	Capital Costs	Total Costs	Total Revenues	Difference
2016-2021	96,290	21,443	117,733	160,499	42,766
2022-2030	175,395	35,153	210,548	239,001	28,452
2031-2040	232,724	44,302	277,026	298,390	21,364
Totals	504,409	100,898	605,307	697,889	92,582

Figure 10-11 – PART Transit Costs and Revenues

PART Transit Costs and Revenues (In Thousands of Dollars)					
Period	O&M Costs	Capital Costs	Total Costs	Total Revenues	Difference
2016-2021	17,226	775	18,001	37,002	19,002
2022-2030	27,846	7,600	35,446	42,879	7,433
2031-2040	34,010	10,597	44,607	53,744	9,137
Totals	79,081	18,972	98,053	133,625	35,572

Figure 10-12 — Pedestrian and Bicycle Costs and Revenues

Pedestrian & Bicycle Costs and Revenues			
(In Thousands of Dollars)			
Period	Costs	Revenues	Difference
2016-2021	43,800	43,800	0
2022-2030	35,720	35,720	0
2031-2040	42,000	42,000	0
Totals	121,520	121,520	0

All roadway investments were assigned to a network year based on current status, expected project development timelines, and relative need. **Figures 10-13, 10-14, and 10-15**, list the roadway projects by the horizon year in which they are projected to complete construction. Maps 4-5, 4-6, and 4-7 in Chapter 4 display the location of projects for each horizon year.

2021 ROADWAY PROJECT LIST

FIGURE 10-13

2016-2021														
Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Cost
									Sidewalk	Bike				
21-01	Local	P05187	Alamance Church Road	Widening - Martin Luther King Jr. Dr. to City Limits	1.6	2 lane	2 lane divided	Minor Arterial	Yes	Yes	No	No		\$3,191,100
21-02	Federal	U-5532 A	Aycock Street / Walker Avenue	Intersection & corridor pedestrian safety improvement project	N/A	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	126	\$1,015,100
21-03	Federal	U-5306A	Battleground Avenue	Intersection and sidewalk improvements at Benjamin Parkway/ Cone Boulevard	N/A	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	127	under construction
21-04	Federal	U-5306B	Battleground Avenue	Intersection and sidewalk improvements at Westridge Road	N/A	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	127	\$3,100,000
21-05	Federal	U-5306C	Battleground Avenue	Intersection and sidewalk improvements at New Garden,	N/A	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	127	right of way in progress
21-06	Local		Battleground/ Benjamin	Intersection improvement for Atlantic and Yadkin Greenway; remove slip lane	N/A	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	127	\$200,000
21-07	Local	P04164	Cone-Nealtown Extension (PH I)	New location - Existing Cone Blvd. to Nealtown Rd. Extension (includes Nealtown Rd. Extension)	1.1	N/A	2 lane	Minor Arterial	Yes	Yes	No	No		\$13,146,500
21-08	Federal	U-2525 B	Eastern Urban Loop	US 29 to US 70	12.6	N/A	4 lane freeway	Interstate	No	No	Yes	No		\$57,550,000
21-09	State	U-5842	Elm Street / Pisgah Church Road	Intersection improvement	N/A	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	127	\$930,000
21-10	Local		Elm-Eugene Street	Widening - I-85 to Ritters Lake Rd	0.5	2 lane	4 lane divided	Minor Arterial	No	Yes	No	No		\$3,374,300
21-11	State	U-5841	Friendly Avenue	Intersection improvements at Lindell Road	N/A	N/A	N/A	Minor Arterial	No	No	No	Yes	127	\$233,000
21-12	Federal	U-2412 B	High Point Road	Vickrey Chapel Rd. to Hilltop Rd. (Section A in HPMPO)	3.8	3 lane	6 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		under construction
21-13	Local	P05068	High Point Road	Streetscape, Pinemcove to Coliseum Blvd.	1.5	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	126	\$8,531,450
21-14	Local		Holden Road / Ashland Drive	Intersection improvements.	N/A	N/A	N/A	Minor Arterial	No	No	No	Yes	127	\$100,000
21-15	Federal	EL-5101 DM	Holts Chapel Road Upgrade	C&G and sidewalks - East Market St. to Franklin Blvd.	3.6	2 lane	3 lane	Local	Yes	Yes	No	Yes	126	\$3,500,000
21-16	Local	P04945	Horse Pen Creek Road	Widening - New Garden Rd. to Battleground Ave.	3.4	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$28,589,800
21-17	Federal	I-5712	I-40 / Sandy Ridge Road	Interchange Reconfiguration	N/A	N/A	N/A	Interstate	No	No	No	Yes	127	\$2,175,000
21-18	State	I-5110	I-73 Connector	New location - NC 68 to Bryan Boulevard (Western Loop) construction	3.0	N/A	6 lane freeway	Interstate	No	No	Yes	No		\$19,400,000
21-19	Federal	EB-5518	Latham Park Greenway	Greenway improvement on Hill St from Battleground Ave to Mendenhall St	0.2	4 Lane divided	2 lane divided	Local	Yes	Yes	No	Yes	126	in progress
21-20	Local		Lewiston Road / Fleming Road	Intersection improvements. Construct turning lanes and curb and gutter.	N/A	N/A	N/A	Collector	Yes	No	No	Yes	127	\$250,000
21-21	Federal	Y-4807 B	Lowdermilk Street / Sykes Avenue	Intersection Realignment at East Market Street	0.1	2 lane	3 lane	Minor Arterial / Local	Yes	Yes	No	Yes	127	\$1,582,000
21-22	Local	EL-5101 DM	Lowdermilk Street Upgrade	C&G and sidewalks - Cameron St. to Holts Chapel Rd.	0.6	2 lane	2 lane	Local	Yes	Yes	No	Yes	126	Included in funding for project 21-15
21-23	Federal	U-2412 B	Mackay Road	Widening - High Point Rd. to Atwater Drive (part of U-2412B)	0.2	2 lane	5 lane	Collector	Yes	Yes	No	No		Under construction
21-24	Local	P04556	Mackay Road	Widening - Atwater Dr. to Williamsborough Ln.	0.7	2 lane	5 lane	Collector	Yes	Yes	No	No		\$3,100,000
21-25	Local		McGee Street	Edgeworth Street to Blandwood Avenue. Intersection improvements and reconstruct roadway.	0.1	N/A	N/A	Proposed Collector	Yes	No	No	Yes	127	\$250,000
21-26	Local		McGee Street/ Davie Street/ Martin Luther King Jr. (Hamburger Square)	Intersection improvements and reconstruct roadway.	N/A	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	127	1,750,000
21-27	State	R-5725	NC 150 / NC 68	Intersection improvements and adding crosswalks	N/A	N/A	N/A	Other Principal Arterial	Yes	No	No	Yes	127	\$698,000

2021 ROADWAY PROJECT LIST

2016-2021														
Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Cost
									Sidewalk	Bike				
21-28	State		NC 62 / Randleman Road	Intersection improvements.	N/A	N/A	N/A	Minor Arterial	No	No	No	Yes	127	\$250,000
21-29	State	R-2413 A/B	NC 68 - US 220 Connector	New location - NC 68 to US 220	7.5/12.4	N/A	4 lane freeway	Interstate	No	No	Yes	No		under construction
21-30	State	R-2413 C	NC 68 -US 220 Connector	Widening - NC 68 / US 220 Intersection to Haw River (In conjunction with R-2309 AB)	3.9/12.4	N/A	4 lane freeway	Interstate	No	No	Yes	No		under construction
21-31	Federal	P-5204	Piedmont Corridor	Piedmont Corridor. Construct Safety Improvement; grade separation of McLeansville Road	N/A	N/A	N/A	Collector	No	Yes	No	Yes	126	under construction
21-32	Local		Pleasant Garden Road	Spur Rd/Nesbitt Rd Roundabout	N/A	N/A	N/A	Mnor Arterial	Yes	Yes	No	Yes	126	\$760,000
21-33	Federal	R-2309 AB	US 220	Widening - Horse Pen Creek Rd. to US 220-NC 68 Connector (In conjunction with R-2413)	6.3	2 lane	4 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		under construction
21-34	State		US 29 at NC 150	Exit ramp improvements, convert from partial clover interchange to diamond interchange	NA	NA	NA	Freeway/ Expressway	No	No	No	Yes	127	\$540,000
21-35	Federal	R-2612 B	US 421	Neelley Rd. and Williams Dairy Rd. realignment and Interchange	0.6	2 lane	2 lane	Freeway / Expressway & Minor Arterial	No	No	Yes	No		under construction
21-36	Local	P04500	Vandalia Road	Widening - Elm-Eugene St. to Pleasant Garden Rd.	1.4	2 lane	3 lane	Minor Arterial	Yes	Yes	No	No		\$4,300,000
21-37	Federal	U-5326	West Market Street / Guilford College Road	Intersection Improvements	N/A	5 lane	N/A	Minor Arterial	Yes	Yes	No	Yes	127	\$1,500,000
21-38	Federal	U-2524 C	Western Urban Loop	Bryan Blvd to Battleground Ave		N/A	6 lane freeway	Interstate	No	No	Yes	No		\$106,540,000
21-39	State	U-2524 D	Western Urban Loop	Battleground Ave. to Lawndale Dr.	1.5	N/A	6 lane freeway	Interstate	No	No	Yes	No		\$65,475,000
21-40	State	U-2524 D	Western Urban Loop	Lake Brandt / Cotswold Connector (Lake Brandt Rd. to Cotswold Rd. part of U-2524 D)	0.3	3 lane	3 lane	Collector	Yes	No	No	No		right of way in progress
21-41	State	U-2524 AE	Western Urban Loop	Interchange at High Point Rd. Relocation (construction with U-2412B)	N/A	N/A	N/A	Other Principal Arterial	No	No	Yes	No		under construction
N/A	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Various			No	Yes	126	N/A
N/A	Various	Various (W, SI)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Various			No	Yes	126	N/A
N/A	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	N/A			No	Yes	126	N/A
N/A	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (C)	Various	Congestion Mitgation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	N/A			No	Yes	126	N/A

2030 ROADWAY PROJECT LIST

FIGURE 10-14

2022-2030

Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Costs
									Sidewalk	Bike				
30-01	Federal	U-5849	Aycock Street	Railroad overpass replacement & road widening	N/A	3	5	Minor Arterial	Yes	Yes	No	No		\$1,844,000
30-02	Federal		Battleground Avenue	Widening - Cotswold Ave. to Westridge Road	1.4	5 lane	6 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		\$13,285,000
30-03	Local		Battleground Avenue	Widening- Mill Street to Northwood Street	0.2	5 lane	6 lane	Minor Arterial	Yes	No	Yes	No		\$250,000
30-04	Federal	U-5852	Benjamin Pkwy / Bryan Blvd	Widening - Holden Road to Wendover Avenue	1.2	5 lane	6 lane	Freeway / Other Principal Arterial	Yes	Yes	Yes	No		\$13,416,000
30-05	Local		Benjamin Pkwy / Cornwallis Dr	Intersection Improvement	N/A	N/A	N/A	Other Principal Arterial / Major Collector	Yes	No	No	Yes	127	\$200,000
30-06	Local		Bessemer Ave / Elm St	Intersection Improvement	N/A	N/A	N/A	Major Collector / Minor Arterial	Yes	Yes	No	Yes	127	\$200,000
30-07	Local		Bryan Boulevard/New Garden/Horse Pen Creek Road	Interchange Improvements. Design and construct new ramp form westbound New Garden Road to westbound Bryan Boulevard.	N/A	N/A	N/A	Other Freeway	No	No	No	Yes	127	2,000,000
30-08	Local		Burlington Road	Widening - Franklin Blvd. to Ward Rd.	0.4	2 lane	3 lanes	Minor Arterial	Yes	Yes	No	No		\$2,674,000
30-09	State	U-5851	Church Street	Widening - Wendover Ave. to Cone Blvd.	1.8	3 lane	4 lane divided	Collector	Yes	Yes	No	No		\$15,771,000
30-10	Local	Bond Project	Church Street	Streetscape, Washington St. to Summit Ave.	0.4	N/A	N/A	Collector	Yes	Yes	No	Yes	126	\$5,000,000
30-11	State		Church Street	Add Shoulders - Urban Loop to MPO Boundary (Rockingham County line)	7.2	N/A	N/A	Minor Arterial/ Collector	No	Yes	No	Yes	126	\$4,320,000
30-12	Local		Cone Boulevard / Lawndale Drive	Interchange Improvements.	N/A	N/A	N/A	Minor Arterial	Yes	No	No	Yes	127	\$10,000,000
30-13	Local		Cone Boulevard Extension (Phase II)	Nealtown Rd. Extension to Hines Chapel Rd. (includes widening of existing and new location)	2.0	2	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$18,054,000
30-14	Federal	U-2525 D	Cone Boulevard Extension Interchange	Interchange with I-840/I-785	N/A	N/A	N/A	Interstate	No	No	Yes	No		\$15,000,000
30-15	State	U-2525 C	Eastern Urban Loop	Lawndale Dr. to US 29	5.8 / 12.6	N/A	6 lane freeway	Interstate	No	No	Yes	No		\$169,845,000
30-16	Local		Elm Street	Widening - Wendover Ave. to Cone Blvd.	1.6	3 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$12,571,000
30-17	Local		Fleming Rd / Lewiston Rd Connector	New location - Fleming Rd. to Lewiston Rd.	0.6	N/A	4 lane divided	Collector	Yes	Yes	No	No		\$15,000,000
30-18	State	U-2524 F	Fleming /Lewiston Interchange	Interchange with I-840	N/A	N/A	N/A	Interstate	No	No	Yes	No		\$15,000,000
30-19	Federal	P-xxxx	Franklin Boulevard	Railroad grade separation	N/A	3 lane	3 lane	N/A	Yes	Yes	No	Yes	126	\$8,500,000
30-20	Federal	U-4015 A	Gallimore Dairy Road	NC 68 to south of I-40	1.6	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$8,150,000
30-21	Local		Hilltop Road	Railroad grade separation	N/A	N/A	N/A	N/A	Yes	Yes	No	Yes	126	\$15,000,000
30-22	Local		Huffine Mill Road	Widening - Penry Road to Eastern Urban Loop	1.8	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$21,900,000
30-23	State		Lake Brandt Road	Add Shoulders - Plainfield Road to Town Limits.	5.5	N/A	N/A	Minor Arterial/ Collector	No	Yes	No	Yes	126	\$5,500,000
30-24	Local		Lake Brandt Road/ Air Harbor Road	Intersection Improvement.	0.5	N/A	N/A	Collector	Yes	No	No	Yes	127	\$5,432,550
30-25	Federal	U-5812	Lawndale Drive / Pisgah Church Road	Intersection Improvement.	N/A	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	127	\$930,000
30-26	Local	Bond Project	Lee Street	Streetscape - Coliseum Boulevard to Eugene St.	1.8	N/A	N/A	Other Principal Arterial	Yes	Yes	No	Yes	126	\$7,503,000
30-27	Federal		Lewiston Road / Pleasant Ridge Road	Widening - North of Urban Loop to Summerfield Road	5.0	2 lane	4 lane divided	Collector	Yes	Yes	No	No		\$27,523,000
30-28	Local		Mackay Road	Railroad grade separation	N/A	N/A	N/A	N/A	Yes	Yes	No	Yes	126	\$15,000,000
30-29	Federal	P-xxxx	Naco Road Extension	New Location - O'Ferrell St. to US 70	1.9	N/A	3 lane	N/A	Yes	Yes	No	No		\$6,820,000
30-30	State		NC 150	Add Shoulders - Lake Brandt Road to Poley Road.	15.5	N/A	N/A	Major Collector	No	Yes	No	Yes	126	\$9,300,000
30-31	State		NC 62	Add Shoulders - Groometown Road to NC 61	21.5	N/A	N/A	Minor Arterial	No	Yes	No	Yes	126	\$12,900,000
30-32	Federal	U-5607	NC 68	Widening - Triad Center Drive to Pleasant Ridge Road	2	4 lane	6 lane divided	Other Principal Arterial	No	No	Yes	No		\$23,622,500

2030 ROADWAY PROJECT LIST

2022-2030														
Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Costs
									Sidewalk	Bike				
30-33	Federal		Norwalk Street Extension	New location - Existing Norwalk St. to Boston St. (includes RXR grade separation & improvements at Wendover)	0.3	N/A	3 lane	Proposed Collector	Yes	Yes	No	No		\$6,844,000
30-34	Local		Old Oak Ridge Road	Widening- Muirfield to Pleasant Ridge Road	1.2	2 lane	3 lane	Minor Arterial	Yes	No	No	No		\$3,000,000
30-35	Local		Pleasant Ridge Road	Widening - West Market St. to NC 68	2.4	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$20,352,000
30-36	State	U-5850	Randleman Road	Widening - Glendale Drive to Elmsley Drive	0.6	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$2,158,000
30-37	Local		Sandy Ridge Road	Widening - I-40 to West Market Street	1.0	2 lane	6 lane divided	Collector	Yes	Yes	No	No		\$20,902,000
30-38	Local		Stanley Road	Widening - Koger Boulevard to Hilltop Road	1.1	2 lane	5 lane	Collector	Yes	Yes	No	No		\$6,431,000
30-39	Local	Bond Project	Summit Avenue	Streetscape - Murrow Boulevard to Wendover Avenue	1.0	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	126	\$10,000,000
30-40	Federal		Tate Street	Railroad grade separation	N/A	N/A	N/A	N/A	Yes	Yes	No	Yes	126	\$10,000,000
30-41	Federal	I-4921	US 220 (Future I-73/I-74)	Asheboro to I-85; Upgrade to Interstate Standards	6.5/ 23	N/A	N/A	Freeway/Expressway	Yes	Yes	No	Yes	126	\$26,320,000
30-42	Federal	R-4707	US 29	Reedy Fork Parkway / US 29 Interchange (includes improvements to Summit Ave. and Reedy Fork Parkway)	0.0	4 lane freeway	4 lane freeway	Freeway/Expressway	Yes	Yes	Yes	No		\$44,124,000
30-43	Federal	U-5754	US 29/ US 70/US 220	Widen southbound exit ramp to two lanes; with northbound on ramp to two lanes and replace I-40/ I-85 Bus overpass.	0.5	1 lane	2 lanes	Freeway/Expressway	No	No	Yes	No		\$17,064,000
30-44	Federal	R-2910	US 70	Widening - Rock Creek Dairy Road to MPO Boundary (remaining portion in Burlington-Graham MPO)	0.32 / 5.4	2 lane	4 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		\$1,248,000
30-45	Federal	U-2581 B	US 70	Widening - Mt Hope Church Rd. to Rock Creek Dairy Rd.	5.2	2 lane	4 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		\$22,200,000
30-46	State		Yanceyville Road	Add Shoulders - Lees Chapel Road to NC 150	3.0	N/A	N/A	Collector	No	Yes	No	Yes	126	\$1,800,000
30-47	Local		Yanceyville Road	Widening - Lees Chapel to Urban Loop Interchange	0.1	2 lane	4 lane divided	Collector	Yes	Yes	No	No		\$750,000
30-48	State		Youngs Mill / Southeast School Connector	New location - Millpoint Rd. to Southeast School Rd.	1.2	N/A	2 lane	Collector	Yes	Yes	No	No		\$20,128,000
N/A	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Various			No	Yes	126	N/A
N/A	Various	Various (W, SI)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Various			No	Yes	126	N/A
N/A	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	N/A			No	Yes	126	N/A
N/A	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (C)	Various	Congestion Mitgation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	N/A			No	No		N/A
N/A	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	N/A			No	Yes	126	N/A

2040 ROADWAY PROJECT LIST

FIGURE 10-15

2031-2040

Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Costs
									Sidewalk	Bike				
40-01	Local		Alamance Church Road	Widening - City Limits to I-85	1.2	2 lane	3 lane divided	Minor Arterial	Yes	Yes	No	No		\$3,276,000
40-02	Local		Bass Chapel Rd / Elm St	Widening - Air Harbor Rd. to Old Lake Jeanette Rd.	2.0	3 lane	4 lane divided	Collector	Yes	Yes	No	No		\$15,411,000
40-03	Federal		Battleground Avenue Crossover	Reconstruction - Cornwallis Dr. to Northwood Street	1.0	5 lane	6 lane divided	Other Principal Arterial	Yes	No	Yes	No		\$15,000,000
40-04	Federal		Benbow Road	Railroad grade separation	N/A	N/A	N/A	N/A	Yes	Yes	No	Yes	126	\$3,750,000
40-05	Local		Burnt Poplar Road	Widening - Swing Rd. to Regional Rd.	2.9	2 lane	3 lane	Local	Yes	Yes	No	No		\$11,645,950
40-06	Local		Church Street	Widening - Cone Blvd. to Old Lake Jeanette Road	2.2	3 lane	4 lane divided -5	Collector	Yes	Yes	No	No		\$13,612,500
40-07	State		Clapps Farm Road	Widening - McConnell Rd. to Mt. Hope Church Rd.	2.0	N/A	4 lane divided	Local	Yes	Yes	No	No		\$13,316,000
40-08	Federal		East Market Street	Railroad underpass replacement	N/A	N/A	N/A	N/A	Yes	Yes	No	Yes	126	\$30,000,000
40-09	Federal		Hamburg Mill	Add shoulder. US 220 to Pleasant Ridge Road	1.4	N/A	N/A	Local	No	Yes	No	Yes	126	\$315,000
40-10	Local		Hicone Road	Widening - Summit Ave. to Hines Chapel Rd.	3.3	2 lane	5 lane	Minor Arterial	Yes	Yes	No	No		\$16,121,000
40-11	Local		Hicone Road Extension	New location - Existing Hicone Rd. to Lee's Chapel Rd.	0.6	N/A	3 lane	Minor Arterial	Yes	Yes	No	No		\$2,894,000
40-12	Local		Holts Chapel Road Extension	Widening & New Location - Franklin Blvd. to Naco Rd Extension	2.3	2 lane / N/A	3 Lane	Collector	No	Yes	No	No		\$15,896,000
40-13	State		McConnell Road	Widening - Beaumont Ave to I-40	1.6	N/A	4 lane divided	Collector	Yes	Yes	No	No		\$20,443,000
40-14	Federal		NC 68	Widening - Leaborne Rd. to Rockingham County Line	8.9	2	4 lane divided	Other Principal Arterial	No	No	Yes	No		\$20,000,000
40-15	Federal		NC 68 / I-40	Interchange Reconfiguration	N/A	N/A	N/A	Minor Arterial	No	No	No	Yes	127	\$25,951,000
40-16	Federal		NC 150	Add Shoulders - Town Limits to US 220; US 220 to Eversfield Road.	7.5	2 lane	3 lane	Minor Arterial/ Major Collector	No	Yes	No	Yes	126	\$55,574,000
40-17	Local		Nealtown Road Extension	New location - East Cone Blvd. to McKnight Mill Rd.	2.0	N/A	3 lane	Proposed Collector	Yes	Yes	No	No		\$12,782,000
40-18	State	U-5003	Pegg / Thatcher Connector	Widening - Gallimore Dairy Rd. to Market St. (includes grade separation over I-40)	2.1	N/A	4 lane divided	Collector	Yes	Yes	No	No		\$35,203,000
40-19	State		Pleasant Ridge Road	Widening - Old Oak Ridge Rd. to Lewiston Rd.	3.2	2 lane	3 lane	Minor Arterial	Yes	Yes	No	No		\$15,196,000
40-20	Local		Pleasant Ridge Road	Widening - NC 68 to Old Oak Ridge Rd.	1.0	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$7,581,000
40-21	Federal		Pleasant Ridge Road /Summerfield Road	Intersection Improvement. Construct Roundabout.	N/A	N/A	N/A	Minor Arterial	Yes	Yes	No	Yes	126	\$750,000
40-22	Federal		Sandy Ridge Road Extension	New location - West Market St. to Marshall Smith Road	1.9	N/A	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$17,600,000
40-23	Federal		South Dudley Street	Railroad grade separation	N/A	N/A	N/A	N/A	No	No	No	Yes	126	\$15,000,000
40-24	Federal		South English Street	Railroad grade separation	N/A	N/A	N/A	N/A	No	No	No	Yes	126	\$15,000,000
40-25	Local		Summit Avenue	Widening - McKnight Mill Rd. to Bryan Park Rd.	4.7	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$30,844,000
40-26	Federal		US 29	Upgrade to Interstate Standards, S. of Reedy Fork Parkway to Rockingham Co. line	5.5	4 lane freeway	6 lane freeway	Freeway/ Expressway	No	No	Yes	No		\$8,822,000
40-27	State	R-2577 C	US 158	Widening & new location - Anthony Rd to US 220 (includes Bypass; A & B Sections in Winston-Salem MPO)	6.8 / 18.8	2 lane	4 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		\$30,200,000
40-28	State	R-2580	US 158	Widening - US 220 to Rockingham Co Line (remaining portion in Rockingham Co.)	1.6/ 15	2 lane	4 lane divided	Other Principal Arterial	Yes	Yes	Yes	No		\$30,200,000
40-29	State		Vandalia Road Extension	New location - Pleasant Garden Rd. to Alamance Church Rd. includes interchange with J M Hunt Jr Expressway	2.5	N/A	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$27,632,300
40-30	Federal		Wendover Avenue / I-40	Interchange Reconfiguration	N/A	N/A	N/A	Other Principal Arterial	No	No	No	Yes	127	\$20,000,000
40-31	Federal	U-3617	West Market Street (E. Mountain Street)	Widening- Bunker hill Road to Forsyth County Line	1.5/3/6	2 lane	4 lane divided	Minor Arterial	Yes	Yes	No	No		\$13,232,000
40-32	State		Wiley Davis Road	Widening - Groometown Road to Clair Place	1.0	2 lane	4 lane divided	Minor Arterial	No	No	No	No		\$6,860,000
40-33	State		Williams Dairy Road/ Millpoint Road Connector	New location - Millpoint Rd. to Southeast School Rd.	0.8	N/A	2 lane	Collector	Yes	Yes	No	No		\$3,284,000
40-34	State		Youngs Mill Rd. Extension	New location - McConnell Rd. to US 70 (includes Railroad Grade Separation)	1.0	N/A	4 lane divided	Collector	Yes	Yes	No	No		\$42,965,000

2040 ROADWAY PROJECT LIST

2031-2040														
Map ID	Funding	TIP or Local ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	BiPed		Regionally Significant?	Exempt?	Exemption Category	Project Costs
									Sidewalk	Bike				
N/A	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Various			N/A	Yes	126	N/A
N/A	Various	Various (W, SI)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Various			N/A	Yes	126	N/A
N/A	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	N/A			N/A	No		N/A
N/A	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	N/A			N/A	Yes	126	N/A
N/A	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	N/A			N/A	No		N/A
N/A	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	N/A			N/A	No		N/A
N/A	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	N/A			N/A	Yes	126	N/A