

Potential G.O. Bond Projects - Mobility - \$6 Million

	Project Name	Project Description	Projected Total Cost	Pre-Bond Issue Cost
Intersection improvements				
1	Griffith Roundabout	Improve pedestrian safety at roundabouts	\$ 977,500	\$ 50,000
2	Intersection - Concord Pine Grey	Realign intersection; improve safety	\$ 1,950,000	\$ 225,000
3	Intersection - N.Main - Beaty	Mitigate congestion and improve pedestrian safety	\$ 1,265,000	\$ 400,000
4	Robert Walker Drive Roundabout	20% match for roundabout construction at this intersection	\$ 222,000	PIL
Sidewalk				
5	N.Main	From current end of sidewalk to north end of town	\$ 435,045	\$ 40,000
6	Concord Rd.	North side from Grey Rd to Lynnbrook Dr	\$ 465,750	\$ 40,000
7	Griffith St	North side from Spinnaker Cove to Jackson St	\$ 462,990	\$ 40,000
8	Jetton	South side from Potts St to Davidson-Gateway Dr	\$ 236,440	\$ 40,000
Road Construction				
9	Potts Sloan Beaty - Phase 1	Multi-Use Path along north-south corridor	\$ 1,021,750	
10	Potts Sloan Beaty - Phase 2	"	\$ 1,316,250	
Total Projected Cost			<u>\$ 8,352,725</u>	
Total Pre-Bond Issue Cost				<u>\$ 835,000</u>

Project 1: Mobility – Griffith Roundabouts Pedestrian Improvements

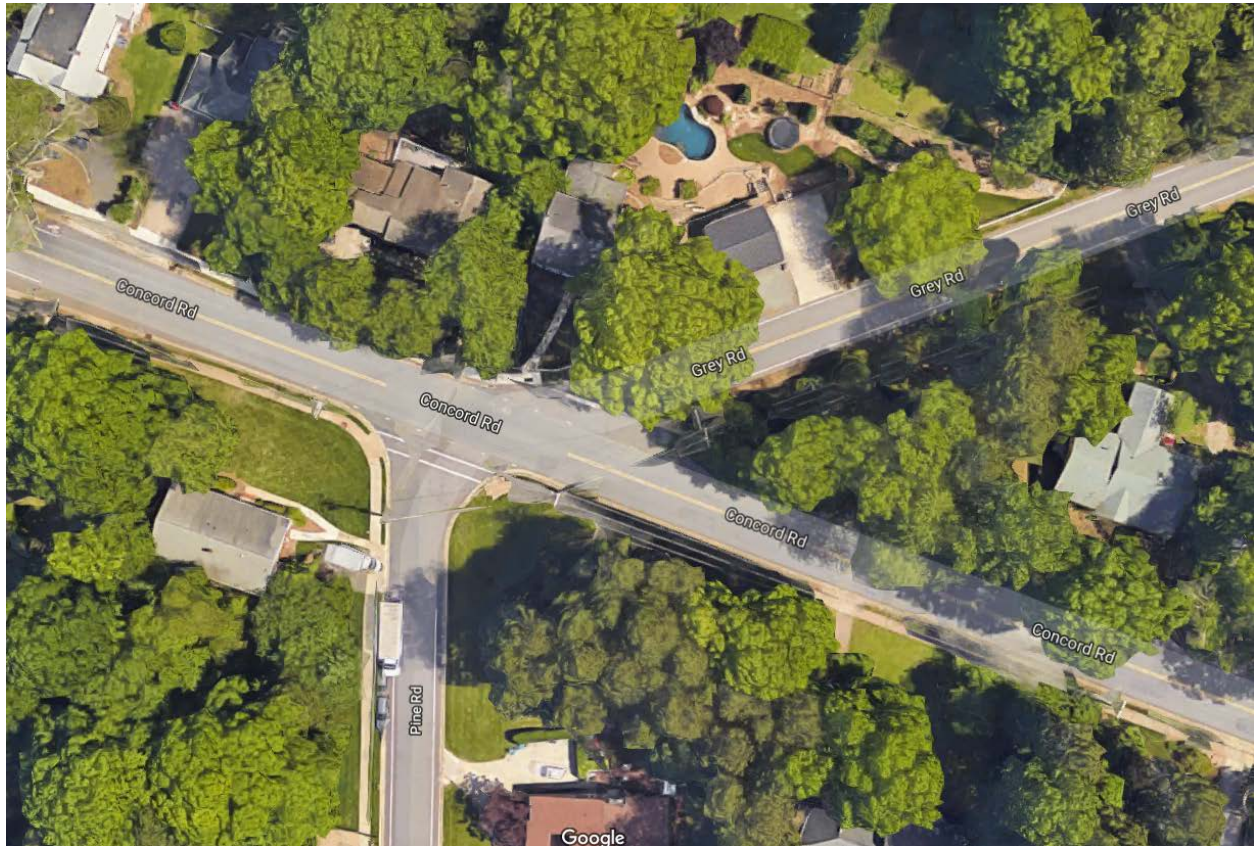


- **Description:** Convert crosswalks at Griffith Street roundabouts to zig-zag style. Install pedestrian hawk beacons at all crosswalks. Relocate existing flashing pedestrian beacons to other intersections in town
- **Justification:** Griffith Street is the highest vehicle volume street in the town, at a measured 17,000 vehicles per day in 2017. As part of a 2014 pedestrian study, 400 pedestrians per day were documented crossing Griffith Street at the roundabouts, with 3 crosswalks in service. Since that time, we have added the crosswalk at the Griffith Street and Jetton Street intersection. The existing pedestrian beacons have been very successful. However, they are not the best possible treatment, and can be relocated to lower volume crosswalks. As the Exit 30 area continues to grow, we can provide the highest level of pedestrian safety through these improvements.
- **Core Value(s):** *Citizens need to move easily throughout the town and region, so government will provide a variety of options, such as sidewalks, bike paths, greenways, connected streets, and transit.*

- **Cost Estimate:**

• Engineering	\$50,000
• HAWK Beacons (provide & install)	\$400,000
• Modify concrete medians and crosswalks	<u>\$400,000</u>
• SUBTOTAL	\$850,000
• Contingency (15%)	<u>\$127,500</u>
GRAND TOTAL	\$977,500

Project 2: Mobility – Intersection Improvements Concord–Pine-Grey



- **Description:** Improve road alignment intersection of Concord Rd, Grey Rd, and Pine Rd
- **Justification:** The current road alignment is skewed. Traffic volumes have increased on all legs of the intersection. Realigning the intersection, or installing a roundabout, would improve safety for all transportation modes
- **Core Value(s):** *Citizens need to move easily throughout the town and region, so government will provide a variety of options, such as sidewalks, bike paths, greenways, connected streets, and transit.*
- **Cost Estimate:**
 - **Engineering** **\$ 225,000**
 - **Roundabout** **\$1,500,000**
 - **SUBTOTAL** **\$1,750,000**
 - **Contingency (15%)** **\$ 225,000**
- **GRAND TOTAL** **\$1,950,000**

Project 3: Mobility – Intersection Improvements North Main-Beaty



- **Description:** Add traffic signal and crossover lane at the Beaty Street – Main Street intersection.
- **Justification:** The intersection is operating at a low level of service during the PM traffic peak. The additional traffic volume from the Potts-Beaty-Sloan connector will further reduce the level of service. A roundabout is not feasible due to the Norfolk Southern right-of-way. A traffic signal would provide the highest benefit for the cost.
- **Core Value(s):** *Citizens need to move easily throughout the town and region, so government will provide a variety of options, such as sidewalks, bike paths, greenways, connected streets, and transit.*
- **Cost Estimate:**
 - **Engineering, Contingency, Overhead** **\$ 400,000**
 - **Construction** **\$ 700,000**
 - **SUBTOTAL** **\$1,100,000**
 - **Contingency (15%)** **\$ 165,000**
- **GRAND TOTAL** **\$1,265,000**

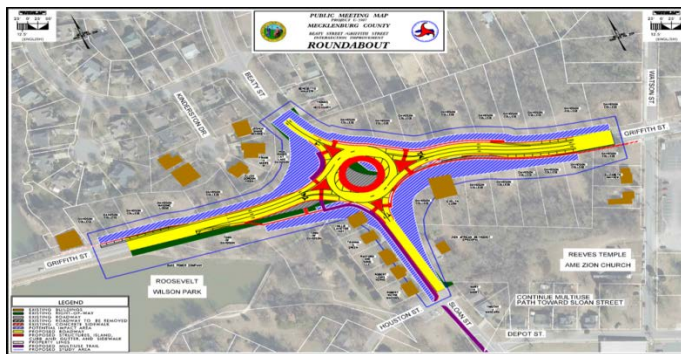
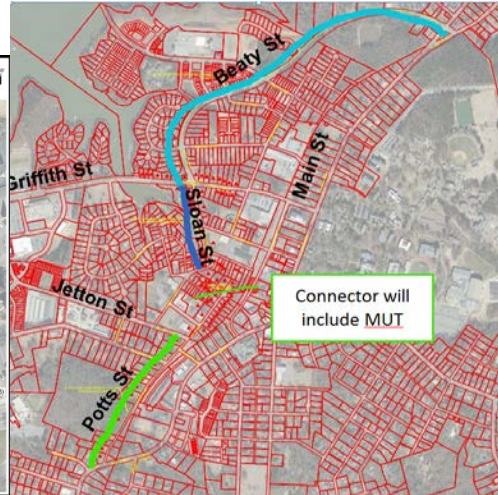
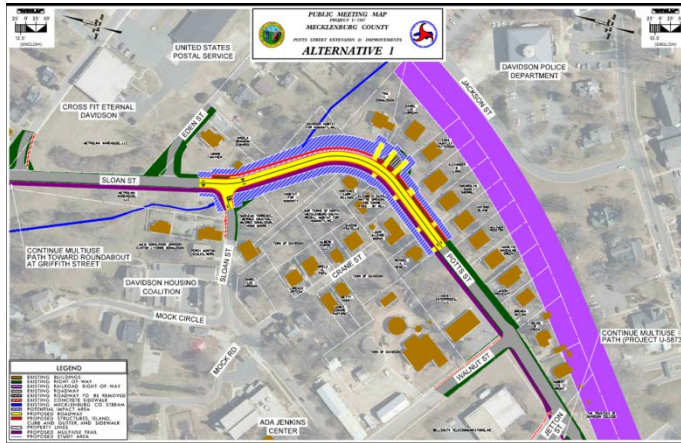
Project 5-8: Mobility – Major Sidewalk Projects



- **Description:** Install major sidewalk projects similar, but not limited to, proceeding examples
- **Justification:** Provide safe, convenient pedestrian amenity along major and minor streets
- **Core Value(s):** *Citizens need to move easily throughout the town and region, so government will provide a variety of options, such as sidewalks, bike paths, greenways, connected streets, and transit.*
- **Cost Estimate:**

• Engineering	\$ 160,000
• North Main St east side	\$ 378,300
• Concord Rd north side	\$ 405,000
• Griffith St north side	\$ 402,600
• Jetton St south side	<u>\$ 205,600</u>
• SUBTOTAL	\$1,551,500
• Contingency (15%)	<u>\$ 232,725</u>
• GRAND TOTAL	\$1,784,225

Project 9-10: Mobility – Potts/ Sloan / Beaty



- **Description:** Install roundabout, connector road, and multi-use path along north-south corridor
- **Justification:** Provide safe, convenient pedestrian amenity along major streets. Provide vehicle alternate to Main St
- **Core Value(s):** Citizens need to move easily throughout the town and region, so government will provide a variety of options, such as sidewalks, bike paths, greenways, connected streets, and transit.

• **Cost Estimate:**

• Roundabout	\$ 2,600,000
• Connector Road	\$ 740,000
• Multi-Use Path	\$ 2,484,000
• Traffic Calming	\$ 414,000
• Bonus Allocation Funds	<u>-\$3,900,000</u>

Bond Funding **\$ 2,338,000**