

**Cabarrus Rowan Urban Area
Metropolitan Planning Organization
Technical Coordinating Committee**

Wednesday January 18, 2023

10:00 AM to 12:00 noon

VIRTUAL MEETING

Agenda

1) Call to Order & Quorum TCC Vice-Chairman Muire

- Roll Call of Voting Members & Introduction of Guests
- Adjustments to the Agenda
- Speakers from the Floor (3 minutes per speaker)

2) Approval of November 16, 2022 minutes TCC Vice-Chairman Muire

3) FY 2020-2029 MTIP Modification #16 Wendy Miller

INFORMATION: MPO staff typically brings amendments or modifications from recent NCDOT Board of Transportation agendas to the TCC/TAC for consideration. The first project modification is the addition of preliminary engineering in FY 23 for the Third Street Greenway Project (EB-5861). The second project modification is the cost increases for the US 29/US 601 bridge replacement (B-5808). The final project modification is the delay in construction for the Poplar Tent Road widening (U-3415A) to FY 28. Attachment 3 is a resolution modifying the MTIP for these projects.

ACTION/RECOMMENDATION: 1) Receive a report on modification #16 to the FY 2020-2029 MTIP; 2) Discuss; and 3) Recommend that the TAC consider endorsing modification #16 to the FY 2020-2029 MTIP.

4) TAP Program Project Call Phil Conrad

INFORMATION: The Transportation Alternatives Program (TAP) is a federal program to fund bicycle and pedestrian infrastructure. This program is similar to the STP-DA suballocation program, requiring a 20 percent local match for those eligible bicycle and pedestrian projects. The MPO issued a call for project proposals on September 29th that concluded on December 30th. A total of 3 projects proposals were submitted by 3 project sponsors. The total cost of these projects is \$4.25 million. MPO staff would propose using \$3.4 in federal TAP funds (80 percent) thru FY 2026 for these projects. A summary table is also

included as attachment 4A. These project proposals are included as attachment 4B.

ACTION/RECOMMENDATION: 1) Receive a report on the TAP Program Call for Projects; 2) Discuss; and 3) Recommend that the TAC consider endorsing the TAP Program Projects for inclusion in the MTIP.

5) Proposed CMAQ Project Submittal Wendy Miller

INFORMATION: CMAQ or Congestion Mitigation and Air Quality funds are a federal funding source for areas designated non-attainment by the EPA. CMAQ funds require a local sponsor and a 20 percent local match. Eligible projects must demonstrate an emissions reduction benefit to the local area. NCDOT has issued a call for new project applications that must be submitted by the middle of March 2023. The MPO received a CMAQ project proposal for supplemental funds for the Bethpage Road sidewalk (C-5603F), which is attachment 5A. NCDOT has indicated that the MPO can anticipate receiving about \$1.58 million in CMAQ funds for FY 2024. Attachment 5B is a resolution of support for this new CMAQ project.

ACTION/RECOMMENDATION: 1) Receive a report on the CMAQ Project submittal; 2) Discuss; and 3) Recommend that the TAC consider endorsing the CMAQ Project submittal as presented.

6) FY 2023-2024 DRAFT UPWP Phil Conrad

INFORMATION: Each year the Cabarrus-Rowan MPO develops and adopts a unified planning work program (UPWP). The UPWP is the MPO budget and follows the state fiscal year 2023-2024 and is included as attachment 6. The UPWP identifies the planning tasks, responsible agencies, and funding sources for regional transportation planning activities to be conducted within the planning area during the next fiscal year. These projects include MPO planning activities undertaken by local agencies, the N.C. Department of Transportation, and a line item for Regional Model and MTP Maintenance. In the fall of 2022, the NCDOT indicated that the allocation in FY 24 to the MPO is \$412,300.

ACTION/RECOMMENDATION: 1) Receive a report on the FY 2023-2024 UPWP; and 2) Discuss.

7) Reports / MPO Business Phil Conrad / TCC Members

- Local Reports – MPO/NCDOT Division 9 & 10/TPD/IMD
- Grants Creek Greenway Feasibility Study Resolution of Support
- Cabarrus-Mecklenburg Greenway Connection Feasibility Study Resolution of Support

- Special Studies Updates – Rowan County and Town of China Grove (2)
- EJ Screening Tool
- Release of Census Defined Urban Area Population – Concord UA 278,612
- Carbon Reduction Program (CRP) Application and Project Call

8) Informational Items

Phil Conrad

- Rider Transit, Salisbury Transit, and MTC Ridership
- TPD Newsletter
- CRAFT Meeting Minutes
- NC MPO Conference – April 26-28

Next scheduled meeting: February 15, 2023

- Agenda items for February TCC meeting

MINUTES

TECHNICAL COORDINATING COMMITTEE

Wednesday, November 16, 2022

HYBRID MEETING
NC Research Campus
Kannapolis City Hall
401 Laureate Way
Kannapolis, NC 28081

Members:

Phillip Graham	City of Concord
Susie Morris	Cabarrus County
Ed Muire	Rowan County & Town of Cleveland
Stuart Basham	NCDOT Div. 10*
Wendy Brindle	City of Salisbury
Mallory Hodgson	Town of Harrisburg
Fred Haith	NCDOT Div. 9
Richard Smith	City of Kannapolis
Franklin Gover	Town of China Grove*
Larry Smith	Town of Granite Quarry

Others:

Phil Conrad	CRMPO Director*
Connie Cunningham	MPO Staff
Phillip Craver	NCDOT Div 9
Loretta Barren	FHWA
Scott Miller	NCDOT Div 10*
Phil Collins	Cabarrus Co.
Roger Castillo	NCDOT TPD
Clay Heath	Harrisburg
Brad Lagano	Concord
Alex Rotenberry	NCDOT IMD
Alana Sweat	China Grove*
Andy Christy	RIDER Transit
Brian Murphy	NCDOT
Paul Hoben	ACWR
Wendy Miller	MPO Staff

*Met in person

TCC Chairman Franklin Gover called the November 16, 2022, meeting of the Cabarrus Rowan MPO TCC to order at approximately 10:00 am. Chairman Gover welcomed the members and called the roll of eligible TCC members and determined that a quorum was met. Chairman Gover continued by asking if there were any adjustments to the meeting agenda. With none heard, Mrs. Susie Morris made a motion to accept the agenda as presented and the motion was seconded by Mr. Larry Smith. TCC members voted unanimously to approve. Chairman Gover continued by asking if there were any speakers from the floor. With no speakers being heard, Chairman Gover moved to the next item of business.

Approval of Minutes

Chairman Gover called the TCC members' attention to the meeting minutes of the September 21, 2022 TCC meeting included in their meeting packets. Chairman Gover asked if there were any corrections or additions to the minutes. Mrs. Susie Morris called attention to the fact the Mr. Phil Collins name had been omitted from the attendees list when he was in fact present at the previous meeting. With no further corrections or additions being heard, Mrs. Susie Morris made a motion

to approve minutes as amended. Mr. Richard Smith seconded the motion and the TCC members voted unanimously for approval.

Nomination and Election of TCC Vice-Chair

CRMPO Executive Director Phil Conrad reported that the Cabarrus Rowan MPO TCC Bylaws state that a new TCC Vice-Chair must be elected each year. Phil reported that the Vice-Chair would rotate to the Chair position in January 2023. He stated that the TCC would need to nominate and elect a new Vice-Chair from Cabarrus County at today's meeting since the current elected Vice Chair is unable to serve at this time. After discussion, Mr. Phillip Graham nominated Mr. Richard Smith to become the 2022 Vice Chair of the CRMPO TCC. Mr. Smith agreed to serve. With that, Mr. Ed Muire asked to close the nominations and made a motion to elect Mr. Richard Smith as the 2022 CRMPO TCC Vice Chair. Mr. Phillip Graham seconded that motion, and the TCC members voted unanimously to approve Mr. Smith to the position. Mr. Richard Smith nominated Ed Muire to serve as the 2023 CRMPO TCC Vice Chair and Mrs. Susie Morris second that motion. The TCC members voted unanimously to approve Mr. Muire to the position for 2023.

RIDER Transit Program of Projects (POP)

Mrs. Wendy Miller reminded the TCC members that the Program of Projects is a list of proposed FTA grant requests to support the operations of Rider Transit in FY 2023. She explained that this is an annual requirement. She went on to say that the RIDER Transit System has opted to use the CRMPO's Public Involvement procedures to process this requirement. She went on to draw the members' attention to Attachment 4 which was a copy of the program. She also reported to the TCC members that a public comment period ended on November 7, 2022, and that no public comments were received during that period. She then asked for any additional information or comments from RIDER Transit's representative, Mr. Andy Christy. He indicated that he appreciated the MPO taking the lead on this item and would request approval of the POP as presented.

With no additional questions or comments, Mr. Richard Smith made a motion to recommend that the CRMPO TCC consider recommending endorsement of the POP by the TAC. Mr. Phillip Graham seconded the motion and the TCC members voted unanimously in favor of the motion.

Performance Based Planning: Safety Targets

Director Conrad reported that the federal transportation legislation or FAST Act requires State DOT's and MPO's to adopt performance-based planning as a component of the metropolitan transportation planning process. He went on to say that NCDOT recently released the next round of safety targets for North Carolina and that it is up to each MPO to either adopt those targets or create their own. Director Conrad informed members that the proposed Safety Targets are published on the CRMPO website. Director Conrad continued by stating the Safety Targets were released for public comment until November 7, 2022, with none being received.

Director Conrad then called members' attention to a memo included in their packets from Mr. Brian Mayhew with NCDOT referring to the Safety Targets. Director Conrad then called members' attention to Attachment 5 which was a draft resolution in support of the new Safety Targets for year 2023. He closed in stating that this is an annual requirement.

At that point, Director Conrad turned the meeting over to Mr. Brian Murphy with NCDOT who provided members with a power point presentation on the NC Strategic Highway Safety Plan. Mr. Murphy stated the goal of the plan is to reduce all fatalities in North Carolina. When the presentation had concluded, Mr. Alex Rotenberry asked how the CRMPO plans to allocate their PL fund set aside for Safety measures. Director Conrad stated he was not completely aware of this new required allocation percentage but did call attention to safety projects already in the works for the area. Mrs. Loretta Barren from Federal Highway addressed the members and stated that 2.5% of PL Funds are set aside for Complete Streets and Safety projects. (This set aside applies to the FY 24 budget.)

With no additional comments or questions heard, Mr. Phillip Graham made a motion to recommend that the CRMPO TAC consider endorsing the Safety Targets. Mrs. Wendy Brindle seconded the motion and the TCC members voted unanimously to approve.

FY 2020-2029 MTIP Modification #15

Mrs. Wendy Miller reported to the TCC members that staff typically will bring amendments or modifications from recent NCDOT Board of Transportation agendas to the TCC and TAC for consideration. The first project modification is the addition of the NC 49 access management improvements in FY 23 (HL-0062). The second project modification is the addition of the Caldwell Road extension in FY 23 (HL-0063). The third project modification is the addition of the US 29/Main Street improvement in FY 24 (HL-0064). The fourth project modification is the segmentation of the Old Concord Road sidewalk project (C-5603D). The fifth project modification is the segmentation of the Brenner Avenue sidewalk project (C-5603H). The sixth project is the segmentation of the US 601/Flowers Store Road intersection project (C-5603I). The seventh project is the delay of construction for the Brenner Avenue intersection project to FY 24 (HL-0049). The eighth project is the delay of right-of-way for the NC 24-27 and Bethel School Road intersection project to FY 23 (HS-2010D). The ninth project is the acceleration of right-of-way for the NC 24-27 and Pine Bluff Road intersection project to FY 23 (HS-2010F). After reviewing the modifications in detail, Mrs. Miller directed members to attachment 6 in their packets which was a resolution modifying the MTIP for these projects.

With no questions and comments after the presentation, Mrs. Wendy Brindle made a motion to recommend that the CRMPO TAC consider endorsing modification #15 to the FY 2020-2029 MTIP. Mr. Larry Smith seconded the motion and the TCC members voted unanimously to approve.

Reports/CRMPO Business

1. Local Reports – MPO/NCDOT Division 9 and 10/PTD- Mr. Fred Haith, NCDOT Division 9 representative called members attention to the Division 9 spreadsheet included in their packets. He reported he had no additional information to report.

Mr. Stuart Basham, NCDOT Division 10 representative called the TCC members' attention to a spreadsheet of Division 10 project updates and highlighted some of the ongoing projects in Division 10.

2. TAP Fund Project Call – Director Conrad reminded members that applications for TAP fund funding are due November 30, 2022. Mr. Phillip Graham addressed the members and requested, if possible, could the deadline be moved to December 30, 2022. After little discussion and by consensus, the TCC members agreed to move the deadline for application submittal to December 30, 2022.

3. FY 24 CMAQ Call for Projects - Director Conrad reported that applications for CMAQ project funding will be due in January 2023. He also reported that the CRMPO's annual allocation is approximately \$1.6 million in federal funds.

4. Special Studies Update- Rowan County, Town of China Grove and 2050 MTP Assistance - Mr. Ed Muire with Rowan County reported to members the County's Long Ferry Road Study in the land use development stage. Chairman Franklin Gover with the Town of China Grove reported that the Main Street Corridor Study is in the last stages of the project and will be completed soon. Chairman Gover also reported that the Town's NC 152 Corridor Study is in the beginning planning stages.

5. Aberdeen Carolina and Western Railway (ACWR) Letter of Support – CRMPO Director Phil Conrad introduced Mr. Paul Hoben with ACWR and turned over the meeting to Mr. Hoben. Mr. Hoben explained the request to the TCC members. He reported that ACWR intends to improve rail lines through the Town of Midland by upgrading the current smaller rails to a large rail which will increase average speeds from 10 mph to 25 mph. Mr. Hoben reported that a \$32 million-dollar federal grant will make these changes on 35 miles of rail from Charlotte to Aquadale, NC. It would also include a \$64 million-dollar federal grant to make the same upgrades to 70 miles of rail from Charlotte to Star, NC. Mr. Hoben stated that ACWR would like to get a letter of support for these projects from the CRMPO to pursue a federal CRISI grant. With no questions or comments, Mrs. Susie Morris made a motion to recommend that the CRMPO TAC consider supporting the projects outlined by the ACWR representative. Mr. Phillip Graham seconded her motion and the TCC members voted unanimously to approve.

6. Update on Census Defined Urban Areas - Director Conrad informed the TCC members that a new UZA will be available from Census in December 2022.

7. Update on the 2024-2033 TIP Conformity - Director Conrad reported to TCC members that staff is continuing to work on the TIP Conformity and Modeling processes.

8. Economic Development Information for Purpose and Need/Project Development - This item was tabled.

Informational Items

Director Conrad called attention to the following informational items included in their TCC packets:

- RIDER Transit, Salisbury Transit and MTC Ridership
- NC Transportation Summit in Raleigh – January 18-19, 2023
- TPD Newsletter

- 2022 Federal Authorizations – currently available on crmpo.org
- FY23 Carbon Reduction Program Allocation Letter – included in the TCC packet
- MPO Newsletter – included in the meeting packet
- CRAFT Meeting Minutes

Next scheduled meeting: January 18, 2023

With no further business to discuss, Mrs. Susie Morris made a motion to adjourn the meeting. Mr. Phillip Graham seconded the motion and the meeting was adjourned.

RESOLUTION ADOPTING MODIFICATION #16 TO THE CABARRUS-ROWAN
METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM FOR FY 2020-2029

WHEREAS, the Metropolitan Transportation Improvement Program (MTIP) is a staged multiple year listing of all federally funded transportation projects scheduled for implementation within the Cabarrus-Rowan Urban Area which have been selected from a priority list of projects; and

WHEREAS, the document provides the mechanism for official endorsement of the program of projects by the Transportation Advisory Committee (TAC); and

WHEREAS, the Transportation Advisory Committee has reviewed the current FY 2020-2029 Transportation Improvement Program, dated October 1, 2019, and found the need to modify it;

WHEREAS, the following attached modification has been proposed.

WHEREAS, Projects listed in the MTIP are also included in the State TIP (STIP) and balanced against anticipated revenues as identified in the STIP; and

WHEREAS, the Metropolitan Transportation Plan has a planning horizon year of 2050, and meets all the requirements in 23 CFR 450; and

WHEREAS, the Transportation Advisory Committee has found that the Transportation Improvement Program conforms to the purpose of the North Carolina State Implementation Plan (*or interim emissions tests in areas where no SIP is approved or found adequate*) for maintaining the National Ambient Air Quality Standards in accordance with 40 CFR 51 & 93; and

WHEREAS, the Transportation Advisory Committee has determined that the proposed modification is exempt from the requirements for determining air quality conformity in accordance with 40 CFR 93.127.

NOW THEREFORE, be it resolved by the Cabarrus-Rowan Urban Area Transportation Advisory Committee that the FY 2020-2029 Metropolitan Transportation Improvement Program dated October 1, 2019, for the Cabarrus Rowan Urban Area Metropolitan Planning Organization be modified as listed above on this the 25th day of January, 2023.

I, Ryan Dayvault, Transportation Advisory Committee Chair, do hereby certify that the above is a true and correct copy of the excerpt from the minutes of a meeting of the Cabarrus-Rowan Transportation Advisory Committee, duly held on the 25th day of January 2023.

Ryan Dayvault, Chair
Transportation Advisory Committee

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

<p>* EB-5861 ROWAN PROJ.CATEGORY DIVISION</p>	<p>- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION</p>	<p>THIRD STREET GREENWAY, WEST OF OLD MOCKSVILLE ROAD NEAR GRANTS CREEK AT EXISTING SALISBURY GREENWAY TO FIELDCREST CANNON LANE IN SPENCER. CONSTRUCT GREENWAY AND SIDEWALK. <u>ADD PRELIMINARY ENGINEERING IN FY 23 NOT PREVIOUSLY PROGRAMMED. MODIFY PROJECT DESCRIPTION.</u></p>	<p>ENGINEERING CONSTRUCTION</p>	<p>FY 2023 - \$148,000 (TAANY) FY 2023 - \$37,000 (L) FY 2024 - \$3,430,000 (TAANY) FY 2024 - <u>\$857,000</u> (L) \$4,472,000</p>
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* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* B-5808 CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	US 29/US 601, REPLACE BRIDGE 120057 AND BRIDGE 120059 OVER IRISH BUFFALO CREEK. <u>COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS.</u>	CONSTRUCTION	FY 2023 - \$3,180,000 (BFP) FY 2024 - \$6,130,000 (BFP) FY 2025 - \$790,000 (BFP) \$10,100,000
U-3415A CABARRUS PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	SR 1394 (POPLAR TENT ROAD), EAST OF I-85 TO GEORGE LILES PARKWAY. WIDEN TO MULTI-LANES. <u>TO ALLOW ADDITIONAL TIME FOR PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY AND UTILITIES FROM FY 24 TO FY 25 AND CONSTRUCTION FROM FY 27 TO FY 28.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2025 - \$543,000 (T) FY 2026 - \$3,259,000 (T) FY 2027 - \$3,259,000 (T) FY 2028 - \$3,259,000 (T) FY 2029 - \$2,580,000 (T) FY 2025 - \$450,000 (T) FY 2026 - \$450,000 (T) FY 2028 - \$277,000 (T) FY 2029 - \$10,877,000 (T) AFTER FY 2029 - \$16,559,000 (T) \$41,513,000

* INDICATES FEDERAL AMENDMENT

2022 TAP Project Call Results

#4A (1/18/23)

Division	Recommended Fiscal Year	TIP Status (Unfunded or Partially Funded)	Project Name and Description	Project Sponsor	Type	Date Received	Federal Match Request
10	2024	UF	Hickory Ridge Rd Sidewalk	Town of Harrisburg	Ped	16-Dec-22	\$ 1,662,400
10	2024	UF	Concord Sidewalks: Cedar, Glenn, Elm, and Crowell Drive, NW	City of Concord	Ped	15-Dec-22	\$ 1,300,000
9	2024	UF	Granite Quarry Sidewalks: Granite Lake Park to Granite Civic Park	Town of Granite Quarry	Ped	20-Dec-22	\$ 438,912
Total Federal Request							\$ 3,401,312
Total Funds Available thru FY 28							\$ 4,797,000



Phil Conrad
Cabarrus-Rowan MPO
57 Union Street South, #1013
Concord, NC 28025

RE: Transportation Alternatives Program

Dear Mr. Conrad,

The City of Concord is pleased to submit this application in response to the call for projects for Transportation Alternatives Program (TAP) funds. Thank you for your consideration of this request.

Applicant Data

Legal Name: City of Concord
Contact Person: Phillip L. Graham, PE
Address: PO Box 308
City, State, Zip: Concord, NC 28026
Telephone: 704-920-5338
E-mail: grahamp@concordnc.gov

Project Information

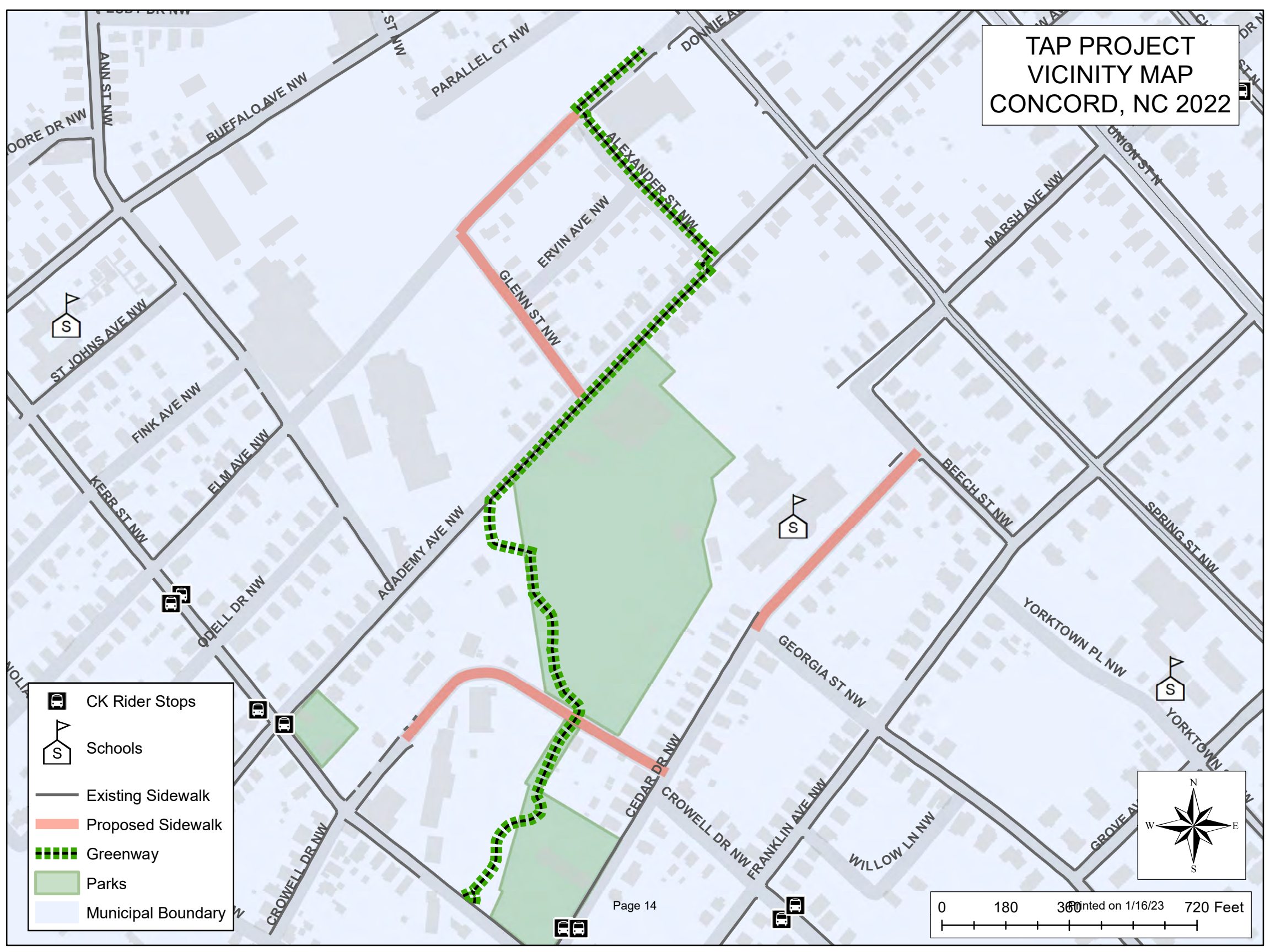
Project Name: Cedar, Glenn, Elm, and Crowell Sidewalk
Project Location: Cedar Dr., NW, Glenn St., NW, Elm Ave., NW, Crowell Dr., NW (See Attached Map)
MTIP ID: N/A
Total Project Cost: \$1,625,000
Requested TAP Funds: \$1,300,000








Brief Project Description:

The project consists of constructing sidewalk along Cedar Dr., NW, Glenn St., NW, Elm Ave., NW, and Crowell Dr., NW and will complete walkable connections for residents, including to the ClearWater Arts Center & Studios, The Village Greenway, and The Boys and Girls Club. The project includes associated curb & gutter and storm drainage structures as necessary.

The segments are also part of the City of Concord Pedestrian Improvement Program (PIP) where by the elected officials and staff regularly receive requests for sidewalks in residential areas. This portion is also included in the City of Concord Comprehensive Transportation Plan (CTP).

TAP PROJECT
VICINITY MAP
CONCORD, NC 2022



-  CK Rider Stops
-  Schools
-  Existing Sidewalk
-  Proposed Sidewalk
-  Greenway
-  Parks
-  Municipal Boundary



CERTIFICATE OF RECORDING OFFICER

I, Kim J. Deason, the duly appointed and acting City Clerk for the City of Concord, North Carolina, do hereby certify and acknowledge the attached is an excerpt from the minutes of the December 8, 2022 City of Concord City Council meeting.

WITNESS MY HAND AND SEAL of the City of Concord, North Carolina this 14th day of December 2022.



Kim J. Deason
Kim J. Deason, City Clerk

EXCERPT FROM THE DECEMBER 8, 2022 MINUTES OF THE CITY OF
CONCORD CITY COUNCIL MEETING

Presentations of Petitions and Requests:

5. Consider authorizing the Transportation Department to apply for the Transportation Alternatives Program (TAP) funding for the construction of sidewalks along Cedar, Glenn, Elm and Crowell, through the Cabarrus Rowan Metropolitan Planning Organization's (CRMPO) call for projects.

The Transportation Alternatives Program (TAP) is a part of the Federal-Aid Highway Program. The TAP application requires a 20% local match in funding and to maintain the project after completion. The project consists of constructing sidewalks along Cedar Dr., NW, Glenn St., NW, Elm Ave., NW, and Crowell Dr., NW and will complete walkable connections for residents to the ClearWater Arts Center & Studios, The Village Greenway, and The Boys and Girls Club (see attached map). Total project cost is estimated at \$1,625,000. Estimated City participation is \$325,000 (20%).

A motion was made by Council Member Stocks and seconded by Council Member Sweat to authorize the Transportation Department to apply for the Transportation Alternatives Program (TAP) funding for the construction of sidewalks along Cedar, Glenn, Elm and Crowell, through the Cabarrus Rowan Metropolitan Planning Organization's (CRMPO) call for projects—the vote: all aye.

Project Needs/ Goals and Objectives

The City's Pedestrian Improvement Program (PIP) is a City wide initiative to identify sidewalk needs and enhance pedestrian connectivity. Missing sidewalk segments are scored based upon criteria related to safety, connectivity, and pedestrian generators. The sidewalk segments proposed for construction scored the highest among thousands of competing sidewalk gaps identified across the City based upon this robust selection criteria.

Facilitates Multi-Modal Transportation

The project area is with ¼ mile of two CK Rider bus stops and connects residential areas to various public facilities including a school, greenway, and City recreation center. The completion of these sidewalk segments will promote multi-modal transportation by giving pedestrians the opportunity to utilize a combination of transit, greenway, and sidewalk connections to travel around this area.

Promotes Safety and Security

The proximity to bus stops, schools/learning facilities, and recreational areas generates a lot of pedestrian traffic, especially among children and families. The current sidewalk gaps along these routes currently force people on foot into the road causing serious safety concerns to those trying to reach these destinations.

Documented Project/Program Support

In addition to being identified by the City's Pedestrian Improvement Program (PIP), these segments are also included in the City of Concord Comprehensive Transportation Plan (CTP).

Proximity to Existing / Planned Traffic Generators

These proposed sidewalk segments connect mid-low income residential areas near Concord's downtown, to important community resources including the ClearWater Arts Center & Studios, The Village Greenway, the Academy Recreation Center, the Glenn Center opportunity school, and The Boys and Girls Club, in addition to a bus route joining this area to larger commercial shopping centers and the hospital.

Innovation

The completion of this sidewalk will bring the City of Concord closer to meeting its goals of a connected multi-modal transportation system that caters to the needs of the community.



Town of Granite Quarry

143 N Salisbury Avenue Granite Quarry, NC 28146
PO Box 351 Granite Quarry, NC 28072
704.279.5596 Office | 704.279.6648 Fax

November 30, 2022

Phil Conrad
Cabarrus-Rowan MPO
57 Union Street South, #1013
Concord, NC 28025

RE: Transportation Alternatives Program

Dear Mr. Conrad,

Please find the Town of Granite Quarry's application for Transportation Alternatives Program (TAP) funds enclosed. We sincerely appreciate the opportunity and consideration.

Applicant Information

Legal Name: Town of Granite Quarry
Contact: Jason Hord, Public Works Director
Address: PO Box 351
143 North Salisbury Avenue, Granite Quarry NC 28072
Phone: 704-279-5596
Email: jhord@granitequarrync.gov

Project Information

Project Name: Parks Sidewalk Connector: Granite Lake Park to Granite Civic Park
Project Location: Town of Granite Quarry, Rowan County, NC
MTIP ID: N/A
Total Project Cost: \$ 550,000.00 (includes local 20% match)
Requested TAP Funds: \$ 440,000.00

Brief Project Description:

This project will consist of 2,150 linear feet of 5' sidewalk. This project comes after the town recently conducted studies for both its Parks & Recreation and Bicycle & Pedestrian master plans. The additional sidewalk will be new construction and allow pedestrians connectivity from Granite Lake Park, Granite Centennial Park and Granite Civic Park. The Town of Granite Quarry will administer the project and those costs have been budgeted.

Project Needs/ Goals and Objectives

The project is in the city limits of Granite Quarry, a town with a population of 3,102 as of 2022. Currently, Granite Quarry has three Town-owned parks that sit on approximately 20 acres of land. All the parks are preferred destinations for residents and visitors alike, however the pedestrian connectivity between the three has always presented a challenge. In 2022 the Board of Aldermen showed their commitment to the parks as well as the downtown with the adoption of the Parks and Recreation Master Plan and Bicycle and Pedestrian Plan. Both plans address concerns with connectivity within the town as it relates to the three parks. In 2014 the Carolina Thread Trail also adopted areas within both parks for which this project would allow connection. This project would go a long way in helping make Granite Quarry a more “walkable” community.

Facilitates Multi-Modal Transportation

The attached map outlines the proposed sidewalk installation and illustrates how the three parks could be connected via pedestrian traffic. The new sidewalks would provide a viable mode of transportation and a trail linkage to allow residents and visitors a safe, ADA compliant, well-lit travel connection between the parks. Currently most patrons will drive between the three parks, while others elect to walk in the streets due to the lack of sidewalks. Currently, there is no safe infrastructure to connect the parks and we feel this will help alleviate some of the vehicular traffic issues in town.

Promotes Safety and Security

The additional sidewalks would allow a safe and secure option for travel between parks. As referenced above, currently park goers must cross a very busy Highway 52, proceed to Kerns Street that has no sidewalks and cross North Main Street to access a sidewalk again. However, once the pedestrian turns onto Crook Street and North Oak Street there are once again no sidewalks available, and pedestrians are forced to walk on the side of the road creating safety concerns. This proposal addresses those concerns.

Documented Project/Program Support

The Town of Granite Quarry is committed to funding the financial match to complete this project. The estimated project is set to cost \$550,000, of which the town will match 20% and cover any project overruns. The Town of Granite Quarry will administer the project and costs are budgeted.

Proximity to Existing / Planned Traffic Generators

The parks are centralized and located within .5 miles of the town square. This area houses most of the downtown business that include-banks, restaurants, barber/beauty shops, auto repair, and churches to name a few. These additional sidewalk connections would bring all those places into a connected loop and allow pedestrian traffic to flow more easily. Granite Quarry is committed to responsible growth. The town has several parcels that developers are submitting plans to develop for increased residential units. The town also hosts events at the parks. The logistics of parking of one's vehicle and walking between the parks is currently non-existent and this proposal will also help manage that issue.

Innovation

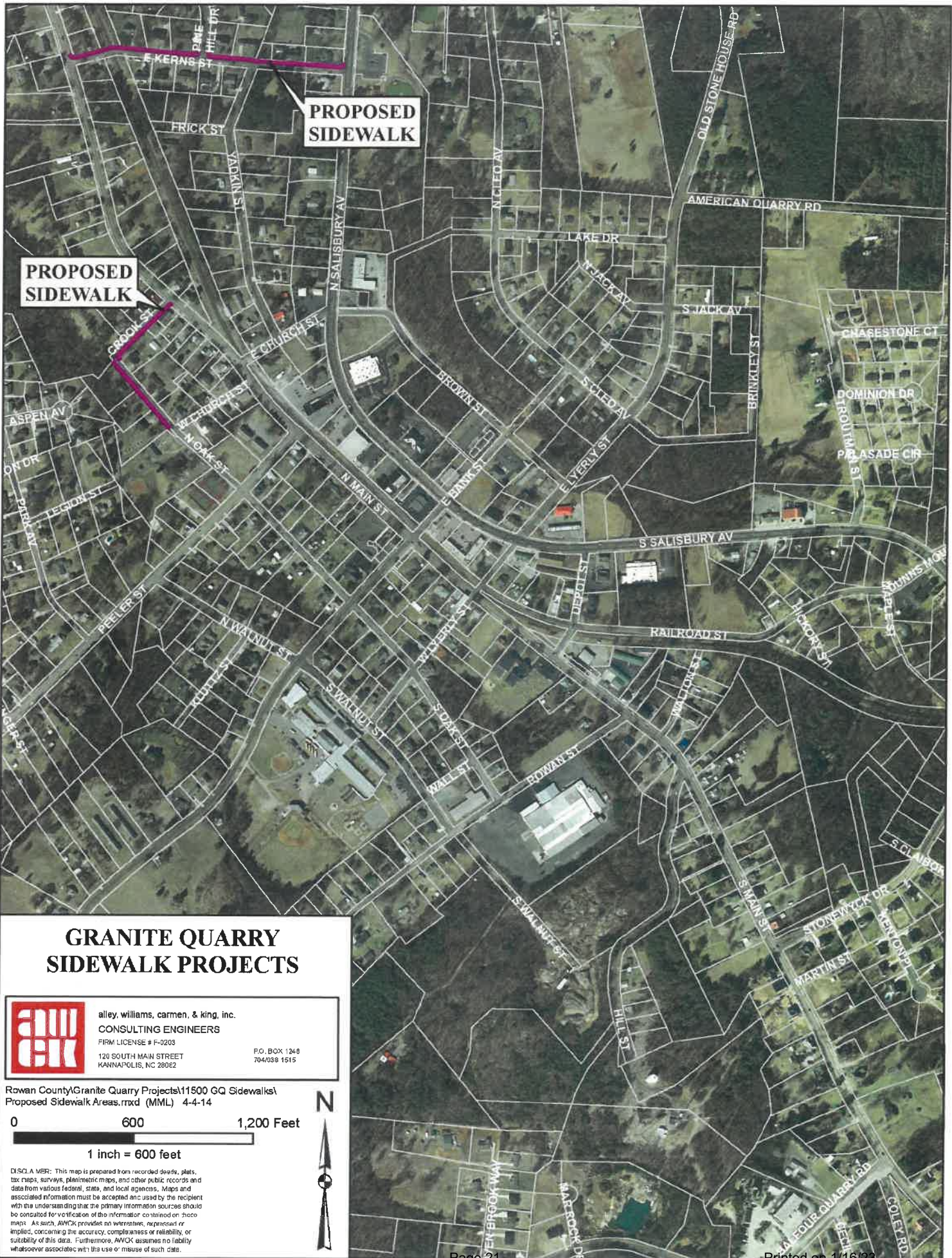
Our town fire department works tirelessly with the SAFE KIDS of NC group and is the representative for Rowan County currently. This allows our fire department to work with our youth to discuss-bike safety, smoke alarm safety, and basic general safety. These events typically are held at one of the parks. While the parks are close in proximity to one another, the additional sidewalks will allow easier access from one to the other. Currently not many of our youth travel between the parks. The additions will make that a more encouraging and safer commute. The sidewalk linkage would also allow the towns elementary school a safe route from the school to all of the parks.

Attachments:

Map

Cost Estimate from Engineers

Letters of Support



GRANITE QUARRY SIDEWALK PROJECTS



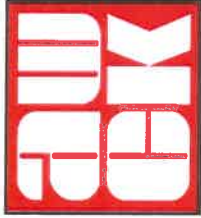
alley, williams, carmen, & king, inc.
 CONSULTING ENGINEERS
 FIRM LICENSE # F-0203
 120 SOUTH MAIN STREET P.O. BOX 1248
 KANNAPOLIS, NC 28042 704/038 1515

Rowan County\Granite Quarry Projects\11500 GQ Sidewalks\
 Proposed Sidewalk Areas.mxd (MML) 4-4-14



DISCLAIMER: This map is prepared from recorded deeds, plats, tax maps, surveys, planning maps, and other public records and data from various federal, state, and local agencies. Maps and associated information must be accepted and used by the recipient with the understanding that the primary information sources should be consulted for verification of the information contained on these maps. As such, AWC&K provides no warranties, expressed or implied, concerning the accuracy, completeness or reliability, or suitability of this data. Furthermore, AWC&K assumes no liability whatsoever associated with the use or misuse of such data.

Estimate for Granite Quarry Sidewalk Projects



alley, williams, carmen & king, inc.
 consulting engineers
 120 s. main st. kannapolis, nc 28081
 p.o. box 1248 kannapolis, nc 28082
 704-938-1515

Date: October 31, 2022

Project	Length (LF)	Project Description	LF costs	Estimated Construction Costs	Design, Inspection, R/W (estimated at 50% of construction)	Total Costs
Kerns St (N Main St to US 52)	1330	5' sidewalk behind existing curb	\$ 120.00	\$ 159,600.00	\$ 79,800.00	\$ 239,400.00
N Oak St (Crook St to the park)	430	5' sidewalk behind existing curb	\$ 120.00	\$ 51,600.00	\$ 25,800.00	\$ 77,400.00
Crook St (N Main St to N Oak St)	390	sidewalk behind ditch	\$ 240.00	\$ 93,600.00	\$ 46,800.00	\$ 140,400.00
				\$ 304,800.00	\$ 152,400.00	\$ 457,200.00
		Contingency / NCDOT				\$ 91,440.00
		Total Project Cost				\$ 548,640.00

20% Town Match \$ 109,728.00
Requested TAP Funds \$ 438,912.00

OPINION OF PROBABLE COSTS:
 THIS OPINION OF COSTS SHOULD BE USED AS A WORKING NUMBER FOR OBTAINING FUNDS AND NOT AS A GUARANTEE OF CONSTRUCTION COSTS. THE UNIT COSTS ARE BASED ON THE COST OF CONSTRUCTION OF SIMILAR JOBS IN THE AREA, AND INCREASES IN COSTS OF MATERIALS OR LABOR COULD AFFECT THE COST OF CONSTRUCTION. NO DESIGN HAS BEEN DONE FOR THIS PROJECT, THE QUANTITIES ARE FOR BUDGETING PURPOSES ONLY.



RESOLUTION 2022-10

A RESOLUTION OF THE BOARD OF ALDERMEN OF THE TOWN OF GRANITE QUARRY, NORTH CAROLINA, IN SUPPORT OF APPLICATION FOR TRANSPORTATION ALTERNATIVES PROGRAM FUNDS

WHEREAS, Transportation Alternatives Program (TAP) funds have been made available for transportation improvements in our area; and

WHEREAS, The Town of Granite Quarry selected a project to submit to the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) for consideration and funding; and

WHEREAS, the selected project includes 2,150 linear feet of 5-foot sidewalk to connect the Granite Lake Park, the Granite Civic Park, and the Centennial Park; and

WHEREAS, The Town of Granite Quarry hereby requests Federal TAP funding from the CRMPO in the amount of \$440,000.00; and


WHEREAS, The Town of Granite Quarry acknowledges the required local match of no less than 20% and the availability of funds to pay all upfronts costs, since the program is a cost reimbursement program; and

WHEREAS, The Town of Granite Quarry agrees to pay any costs that exceed the project amount if the application is selected for funding.

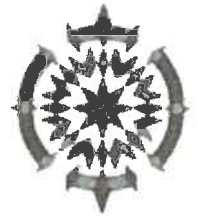
NOW, THEREFORE, BE IT RESOLVED the Board of Aldermen of the Town of Granite Quarry acknowledges if said project is selected for funding through the CRMPO selection process, said project is subject to all applicable Federal and State laws and regulations regarding TAP funding, as well as subject to the rules and procedures established by the CRMPO regarding approved TAP projects.

RESOLVED, APPROVED, AND EFFECTIVE UPON ADOPTION BY THE BOARD OF ALDERMEN OF THE TOWN OF GRANITE QUARRY, NORTH CAROLINA, ON THIS THE 4th DAY OF Nov. 2022.


Brittany H. Barnhardt, Mayor

ATTEST:

Aubrey Smith, Town Clerk





**CAROLINA
THREAD
TRAIL**

October 31, 2022

Phil Conrad, Director
Cabarrus-Rowan MPO
57 Union Street South, #1013
Concord, NC 28025

RE: Letter of Support – Transportation Alternatives Funds for Granite Quarry Sidewalk Project

Dear Mr. Conrad,

On behalf of the Carolina Thread Trail staff and governing board, please accept this letter as our endorsement of the Town of Granite Quarry's effort to obtain funding for a sidewalk project on N. Oak Street, Crook Street, and Kerns Street, between Civic Park and City Lake Park.

The Carolina Thread Trail is a regional network of trails in fifteen counties and two states, envisioned to serve a population of 2.5 million people. These trails will create a large, interconnected system that will improve the quality of life within local communities, including Granite Quarry. The Town participated in the development of the Carolina Thread Trail Master Plan for Rowan County, which includes segments through Civic Park and other areas of town.

The proposed sidewalk project will close gaps in the pedestrian network between two town parks, and thus will improve non-vehicular access to the Carolina Thread Trail for residents and visitors. This connection will magnify the benefits of prior network expenditures at the parks. Providing dedicated pedestrian facilities between these popular destinations can reduce driving trips to the parks, but also will reduce the exposure of pedestrians of all ages and abilities to severe injury and death by eliminating the need to use the street.

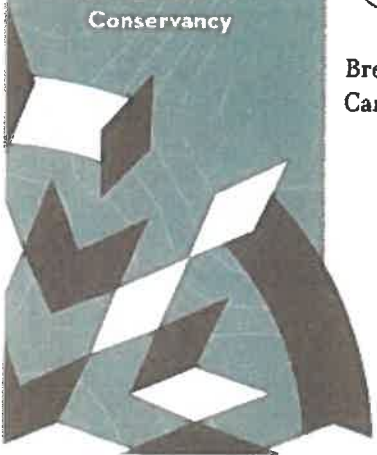
For these reasons, the Carolina Thread Trail offers its enthusiastic support of the Town of Granite Quarry's application to fund the sidewalk project between Civic Park and City Lake Park, and we look forward to the safety and transportation benefits that it will provide this community.

Thank you for your consideration.

Kindest regards,

Bret Baronak, Project Director
Carolina Thread Trail

Led by
Catawba Lands
Conservancy





A Tradition for Life

November 7, 2022

Phil Conrad-Director
Cabarrus-Rowan MPO
57 Union St. South #1013
Concord, NC 28025

Dear Mr. Conrad-

I hope this letter finds you and your family well. Things are going well here for F&M Bank and the Town of Granite Quarry. Town of Granite Quarry leadership are making strides in various areas that are helping move things forward in a positive direction. I wanted to take few moments of your time and put my support behind the initiative to connect the existing parks with sidewalks within the city limits of the Town of Granite Quarry.

As the Town of Granite Quarry grows so does the use of our various parks. These parks are very close in proximity and with the addition of the proposed sidewalks, it will provide a safe passage for our town residents.

If I can be of any further assistance please feel free to contact me at (704)762-2277.

Regards,

A handwritten signature in black ink, appearing to read 'Robert M. Miller', is written over a light blue horizontal line.

Robert M. Miller
Vice President
F&M Bank

State Employees' Credit Union



Granite Quarry

November 14, 2022

Phil Conrad, Director
Cabarrus, Rowan MPO
57 Union Street South #1013
Concord, NC 28025

Dear Mr. Conrad:

The State Employees' Credit Union Granite Quarry Branch would like to express its support of the Town of Granite Quarry's application to the Metropolitan Planning Organization for the funding of new sidewalks as we believe it would be a welcome addition to the town. We appreciate the opportunity to share our support of the project.

Sincerely,

Lori Cinquemani
Vice President/City Executive

970 North Salisbury Ave. • P.O. Box 827 • Granite Quarry, NC 28072 • 704.209.5538

www.ncsecu.org

Equal Opportunity Employer - vets. disability



Applicant Information

Legal Name: Town of Harrisburg, North Carolina
Contact Person: Mallory Hodgson, P.E. – Director of Public Works
Address: 4100 Main Street, Ste. 101
City, State, Zip: Harrisburg, NC 28075
Telephone: 704-206-8779
E-mail: MHodgson@harrisburgnc.org

Project Information

Project Name: Hickory Ridge Road Sidewalk Extension
Project Location: Hickory Ridge Road, Harrisburg, North Carolina
MTIP ID: N/A
Total Project Cost: \$2,078,000 (See Appendix G)
Requested TAP Funds: \$1,662,400
Brief Project Description: This project will connect existing sidewalk along Stallings Road to existing sidewalk along Hickory Ridge Road, creating a pedestrian corridor extending through the main collector roads of Harrisburg. The new sidewalk will provide connectivity from the city center, existing neighborhoods, and schools. The new sidewalk will also feature a connection to the future Back Creek Greenway.

Project Evaluation Criteria

- 1. Project Needs/Goals and Objectives (25 points): The project should directly address priority transportation needs within the Cabarrus-Rowan MPO Planning Area as described in CRMPO's Transportation Plan. Project applications should clearly state the overall program goals and objectives, and demonstrate how the project will benefit the community. The project application should indicate the number of persons expected to be served once the project/program has been constructed/implemented.**

The Comprehensive Transportation Plan (CTP) Pedestrian Map, Inset D Amended (revised March 26, 2019) shows the Proposed Hickory Ridge Road Sidewalk as "recommended" along the full length of Hickory Ridge Road (SR 1138) from Rocky River Road (SR 1139) to Stallings Road (SR 1161). The Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) 2050 Metropolitan Transportation Plan (MTP) references the proposed project in the CTP as well. CTP Pedestrian Map, inset D is included in Appendix A.

One of the critical goals of the CRMPO is to "promote development of an integrated bicycle and pedestrian network." The objectives include pursuing "funding for a coordinated and comprehensive network of sidewalks and bicycle routes throughout the urban area and improving the transportation system with accommodations for bicycle and pedestrian access." (CRMPO 2050 MTP Chapter 2)

The primary goal of this sidewalk project will be to connect the existing Stallings Road Sidewalk and the existing Hickory Ridge Road Sidewalk with a new sidewalk running parallel to the north side of Hickory Ridge, to create a 2.5-mile loop of sidewalk along Stallings Road, Hickory Ridge Road, and Raging Ridge Road. This will provide connectivity to Harrisburg Elementary School, Hickory Ridge Middle

School, Hickory Ridge High School, and Stallings Park, as well as to several existing subdivisions and subdivisions currently under construction. The proposed sidewalk will also connect existing pedestrian facilities from the Highway 49 and Harrisburg Town Center areas across the railroad tracks, providing a complete pedestrian connection from the northern side of the railroad to the southern side of the railroad. The Town has leveraged new subdivision construction to install a majority of the sidewalk along the corridor in cooperation with the Town's Unified Development Ordinance.

A secondary, yet important goal of this project, is to connect the subdivisions and sidewalks to the future Back Creek Greenway. The proposed section of sidewalk will cross Back Creek, where a future greenway is currently in the planning and easement acquisition phases. The Back Creek Greenway was identified by the Town and incorporated into the Harrisburg Bicycle, Pedestrian, and Greenway Plan (adopted by Town Council June 2015). Close coordination during this phase will ensure connectivity from the future sidewalk to the future greenway and increase availability for public access.

- 2. Facilitates Multi-Modal Transportation (25 Points): Emphasis will be given to projects that provide safe routes for non-motorized traffic. Projects that provide access to daily needs, such as schools, job centers, health care facilities, municipal downtowns, commercial centers, activity nodes, and transit stops, and multimodal transportation options for children, older adults, and individuals with disabilities will receive maximum points.**

As stated in the previous section, the primary goal of this project will be to complete a sidewalk loop that will provide pedestrian access to three public schools in this area and the children who attend them. Not only will pedestrian access be provided between the schools, but the proposed project will connect several existing subdivisions and the Town Center area to the three public schools, providing access between the two areas that serve as activity nodes within Harrisburg. The location of the proposed project can be seen in the map in Appendix E. The proposed sidewalk will serve residents of all ages, as there is an existing age targeted community that will have access to these facilities.

- 3. Promotes Safety and Security (20 points): The project improves an existing hazardous condition for non-motorized transportation. To receive full points, project sponsor must provide a complete description with supporting documentation of the hazardous condition.**

Hickory Ridge Road (SR 1138) currently poses hazards to both pedestrians and vehicular traffic from Stallings Rd to Bridge Pointe Dr due to a gap in the Town's sidewalk system that is creating a lack of connectivity. This corridor has seen a greatly increased use since the opening of Hickory Ridge Middle School (HRMS), located approx. 550 LF south of the intersection of Hickory Ridge Rd and Bridge Pointe Dr. Concrete sidewalk and a designated pedestrian access to HRMS was installed during construction along the property frontage, but currently there is not sidewalk connectivity to the residential parts of Town. Pedestrians traffic to and from the middle school are currently forced to walk along the shoulder of Hickory Ridge Road for approximately 2,700 LF between the existing middle school sidewalk and Stallings Road. In addition to the pedestrian facilities added on SR 1138, designated pedestrian crossing facilities will be added to the intersection of Harrisburg Veterans Road (SR 1304) and Stallings Road (SR 1161). The existing intersection provides no crosswalk nor pedestrian facilities along SR 1161, this can be seen below in Figure 1. The proposed project will add pedestrian facilities up to the intersection and provide a crosswalk to connect it to SR 1304. All proposed facilities will meet the standards set by the Americans with Disabilities Act of 1990.

Figure 1:



- 4. Documented Project/Program Support (15 points): Applicants must submit documentation that shows local support for the project/program. Support from affected citizens, local officials such as mayors, board members, sheriffs, neighborhood associations, etc.**

The Harrisburg Town Council is aware of the lack of pedestrian facilities throughout Town limits and utilized a consulting firm to create the Harrisburg Bicycle, Pedestrian, & Greenway Master Plan. Adopted by Town Council in June 2015, the master plan evaluated, assessed, and made recommendations regarding bicycle, pedestrian, and greenway needs for the Town from 2015-2025. This plan highlights the need for a sidewalk along SR 1138 as well the proposed Back Creek greenway in this area. A map of the proposed pedestrian facilities from this master plan can be found in Appendix B.

This project also has support of the organizations located in the area. The Director of Architecture, Planning and Construction at Cabarrus County Schools has expressed his interest in a sidewalk spanning this corridor to Town staff on multiple occasions. A letter of support from this organization can be found in Appendix C.

The Harrisburg Town Council is aware of the requirements that come with funding through a Transportation Alternatives Program Grant and have authorized Town staff to execute and file applications for projects consistent with the Town's adopted Transportation and Community plans by the means of a formal resolution. See Appendix D for the Town Council resolution adopted on November 14th, 2022.

- 5. Proximity to Existing/Planned Traffic Generators (10 points): The project is in proximity to bicycle/pedestrian traffic generators such as residential or commercial areas, schools and other institutional uses, parks, libraries, etc. Applicant must describe proximity to, and connection with existing transportation system and how it will improve access to the facilities.**



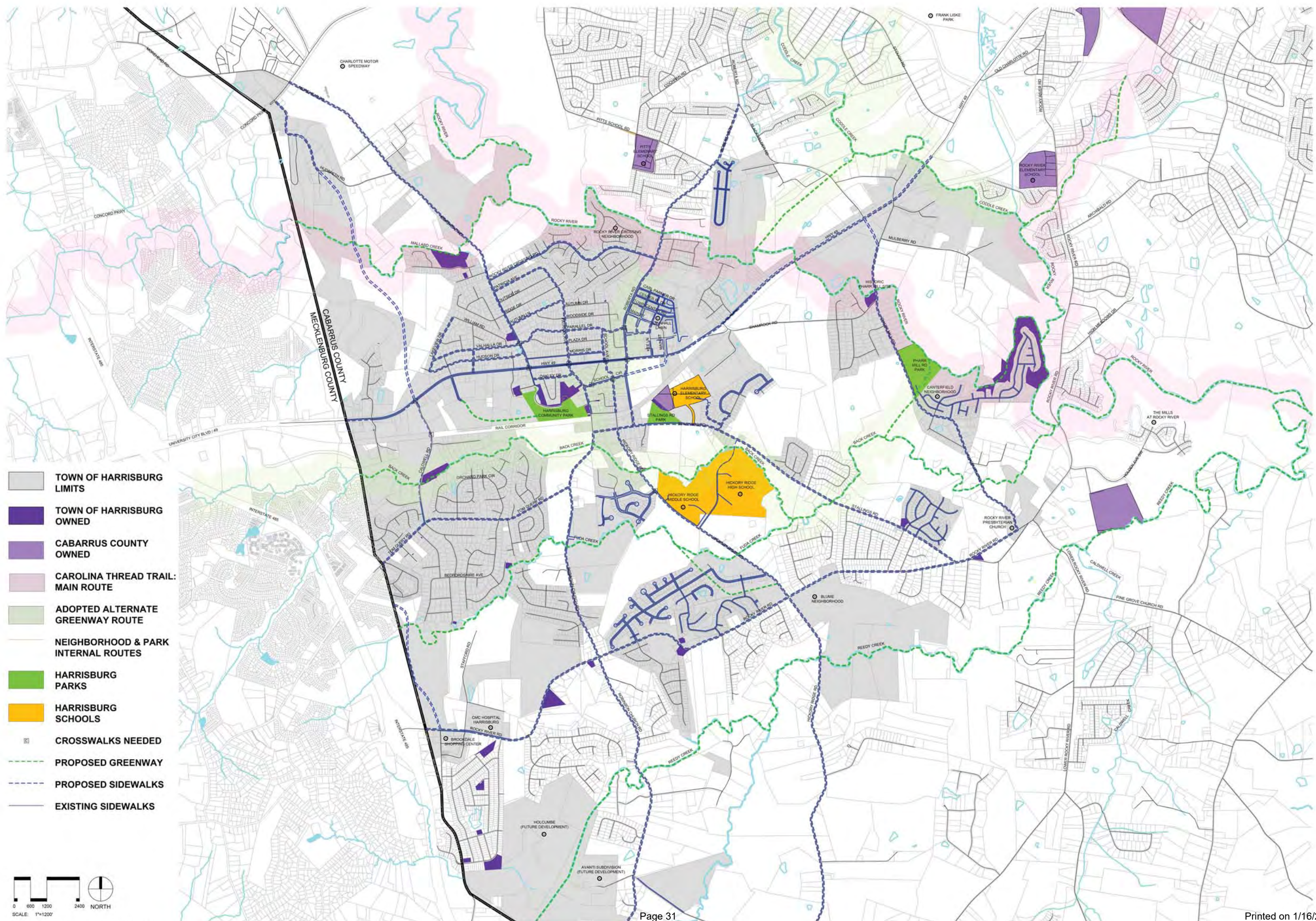
The proposed project is within a 0.5-mile radius of Harrisburg Elementary School (HES), HRMS, Hickory Ridge High School (HRHS), Stallings Road Park, Harrisburg Park, and the Harrisburg Public Library.

As mentioned in a previous section, the Town is currently leveraging private developers to install sidewalk along Stallings Road as part of two ongoing subdivision projects. After all projects are completed, the proposed project will create a looped sidewalk connecting all three public schools and the Stallings Road Park. This will additionally connect to the existing sidewalk on SR 1304 providing uninterrupted pedestrian access from Town Center, and the residential communities connected to it, to the school facilities. See the map provided in Appendix E for a vicinity map and locations of the traffic generating facilities.

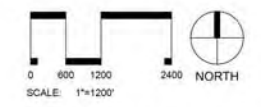
6. **Innovation (5 points): The project will be examined to see if it contains new or innovative service concepts or facilities that have the potential for improving access and mobility for the target populations and may have future application elsewhere in the region.**

One difficulty with the design and installation of this project is the crossing of Back Creek, a jurisdictional waterway under the Clean Water Act. The project will obtain a no-impact certification to Back Creek by “shadowing” the existing road bridge. The proposed sidewalk will be located no further than 5’ from the existing road bridge abutments, will match the existing span length of 56 LF, and will utilize a 10’ wide prefabricated fiberglass reinforced plastic (FRP) bridge span. The type of FRP bridge proposed for this project has been used on similar applications for a section of the “Mountain-to-Sea” trail located in the Blue Ridge Parkway.

The proposed project will also connect to a future greenway to be located in this area along Back Creek as stated in section 1.



- TOWN OF HARRISBURG LIMITS
- TOWN OF HARRISBURG OWNED
- CABARRUS COUNTY OWNED
- CAROLINA THREAD TRAIL: MAIN ROUTE
- ADOPTED ALTERNATE GREENWAY ROUTE
- NEIGHBORHOOD & PARK INTERNAL ROUTES
- HARRISBURG PARKS
- HARRISBURG SCHOOLS
- CROSSWALKS NEEDED
- PROPOSED GREENWAY
- PROPOSED SIDEWALKS
- EXISTING SIDEWALKS





4425 Old Airport Road
PO Box 388
Concord, NC 28026.0388

(704) 260-5654

Ms. Mallory Hodgson, P.E.
Director of Public Works
Town of Harrisburg, NC

Subject: Letter of Support of Hickory Ridge Sidewalk

Ms. Hodgson,

I am pleased to write this letter in support of the transportation projects the Town has identified and is working to initiate. As the Town has grown, Cabarrus County Schools has been excited for the partnerships available through the Town to make transportation improvements that have positive impacts on the schools. We recognize the efforts that Town staff has made to make improvements to the transportation corridors throughout Town.

That said, CCS is in support of a sidewalk on Hickory Ridge Road. A sidewalk in the area will provide a connection to Hickory Ridge High School, Hickory Ridge Middle School, and Harrisburg Elementary School while connecting a number of residential developments. Alternate modes of student transportation are welcomed.

Kindest Regards,

A handwritten signature in black ink, appearing to read 'Brian C. Cone', is written over a light blue rectangular background.

Brian C. Cone
Director of Architecture, Planning and Construction
Cabarrus County Schools



Resolution by the Town Council
In Support of the Town of Harrisburg, NC to Apply for funding from the
Transportation Alternatives Program through the Cabarrus-Rowan
Metropolitan Planning Organization

WHEREAS, The Transportation Alternatives (TA) Program was authorized by the most recent Federal Transportation Funding Act – the Moving Ahead for Progress in the 21st Century Act (MAP-21) that was signed into law on July 6, 2012 and expired on May 31, 2015. The Transportation Alternatives Program redefines the former Transportation Enhancements (TE) activities and consolidates these eligibilities with the Safe Routes to School and Recreational Trails Programs. The TE program was originally authorized in the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and continued through two successive laws TEA-21 and SAFETEA-LU. The Transportation Alternatives Program builds upon the legacy of the TE program by expanding travel choices, strengthening the local economy, improving the quality of life, and protecting the environment.

WHEREAS, The Town of Harrisburg, herein referred to as the “Town” has need for and intends to construct and design transportation projects which meet the eligibility requirements associated with the Transportation Alternatives Program.

WHEREAS, The Town of Harrisburg intends to request State loan and/or grant assistance for the projects,

NOW THEREFORE BE IT RESOLVED, BY THE TOWN COUNCIL OF THE TOWN:

That the Town of Harrisburg Council supports Town Staff in the endeavor to seek funding through the Transportation Alternatives Program for projects consistent with adopted transportation and community plans.

That the Town will arrange financing for all remaining costs of the project, if approved for a loan and/or grant award.

That the Town will adopt and place into effect on or before completion of the project a schedule of fees and charges and other available funds which will provide adequate funds for proper operation, maintenance, and administration of the system and the repayment of all principal and interest on the debt.

That the Town will provide for efficient operation and maintenance of the project on completion of construction thereof.

That Town Mayor, Jennifer Teague, the Authorized Official, and successors so titled, is hereby authorized to execute and file an application on behalf of the Town with the Cabarrus-Rowan Metropolitan Planning Organization for a loan and/or grant to aid in the study of or construction of the project described above.

That the Town Mayor, and successors so titled, is hereby authorized and directed to furnish such information as the appropriate agency may request in connection with such application or the project: to make the assurances as contained above; and to execute such other documents as may be required in connection with the application.



That the Town has substantially complied or will substantially comply with all Federal, State, and local laws, rules, regulations, and ordinances applicable to the project and to Federal and State grants and loans pertaining thereto.

Adopted this 14th day of November, 2022 at Town Hall, Harrisburg, North Carolina.

Jennifer Teague

(Signature of Authorized Representative)
Jennifer Teague

Town Mayor, Town of Harrisburg, NC

(Title)



CERTIFICATION BY RECORDING OFFICER

The undersigned duly qualified and acting Town Clerk of the Town of Harrisburg does hereby certify: That the above/attached resolution is a true and correct copy of the resolution authorizing the filing of an application with the State of North Carolina, as regularly adopted at a legally convened meeting of the Town of Harrisburg duly held on the 14th day of November 2022; and, further, that such resolution has been fully recorded in the journal of proceedings and records in my office. IN WITNESS WHEREOF, I have hereunto set my hand this 14th day of November, 2022

Jane Rackley

(Signature of Recording Officer)

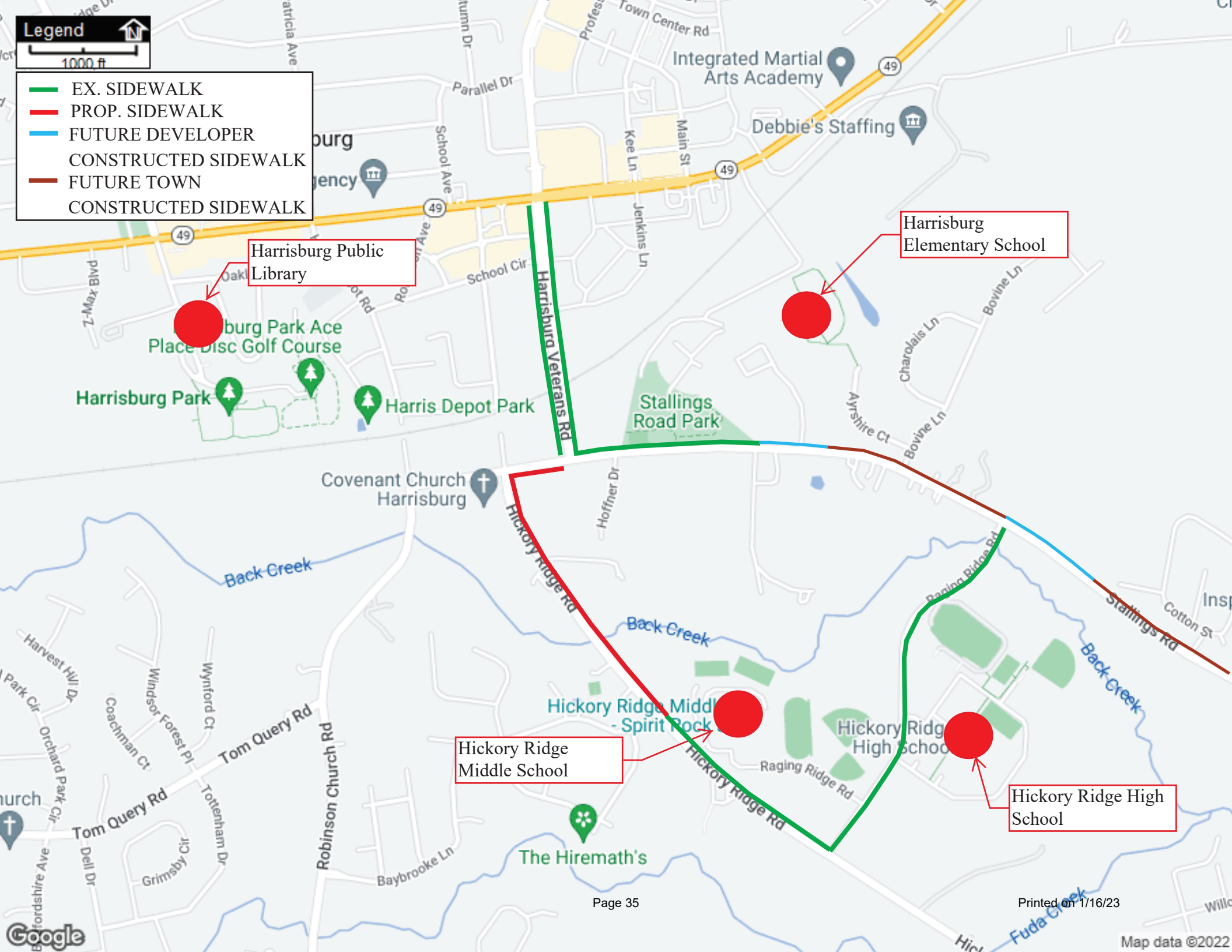
Town Clerk

(Title of Recording Officer)



Legend

- EX. SIDEWALK
- PROP. SIDEWALK
- FUTURE DEVELOPER
- CONSTRUCTED SIDEWALK
- FUTURE TOWN
- CONSTRUCTED SIDEWALK



Harrisburg Public Library

Harrisburg Elementary School

Hickory Ridge Middle School

Hickory Ridge High School

Appendix G – Feasibility Study with Opinion of Probable Cost

September 29, 2022

Mallory Hodgson
Project Manager
Town of Harrisburg
4100 Main Street, Suite 101
Harrisburg, NC, 28075

Re: Hickory Ridge Road Sidewalk Feasibility Study

Dear Ms. Hodgson:

Kimley-Horn has prepared a feasibility study and preliminary cost estimate for a sidewalk along the east side of Hickory Ridge Road, starting at the existing sidewalk in front of the Hickory Ridge Middle school, running north to the intersection of Hickory Ridge Road, turning right on the south side of Stallings Road to the intersection with Harrisburg Veterans Road.

The study includes a preliminary hydraulic, structural, and environmental assessment of the feasibility of a proposed pedestrian over Back Creek.

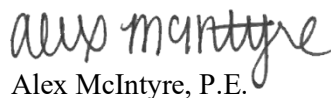
The hydraulic assessment determined that to obtain a floodplain development permit and a no-impact certification from Cabarrus County, the proposed pedestrian bridge must “shadow” the existing road bridge—meaning the pedestrian bridge must be parallel to Hickory Ridge Road, located no further than 5’ from the existing road bridge abutments, and must be the same span length (56 LF).

The structural assessment determined that the proposed pedestrian bridge abutments should be skewed to mimic the existing bridge. Skewing the substructures will shorten the span at the crossing while working within the current hydraulic constraints. The bridge width is proposed to be 10’ wide to allow pedestrians and cyclists to safely pass each other.

The environmental resources memo is included in this submittal and includes the results from the field reconnaissance to verify the presence of potential waters of the U.S., including wetlands, and jurisdictional streams. The results from the United States Fish and Wildlife Service (USFWS) species survey are also included in the memo.

Thank you for your review. Please let me know If you have any questions.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.



Alex McIntyre, P.E.

Attachments
Concept Plans
OPCC
Environmental Resources Memo

HICKORY RIDGE ROAD FEASIBILITY STUDY

Preliminary Engineering (PE) <i>(Design, Permitting, Survey, SUE, Geotechnical Fees)</i>	\$205,000
Right-of-Way (ROW)	\$163,000
Purchase of real property <i>(R/W, easements, agent fees)</i>	\$123,000
Utility relocations	\$40,000
Construction (CON)	\$1,017,000
Construction Contract Estimate/Let Cost <i>(See next page for breakdown)</i>	\$820,000
Construction Engineering Inspection <i>(20% of Construction Estimate)</i>	\$164,000
4% Escalation Factor	\$33,000
<i>SUBTOTAL</i>	\$1,385,000
<i>Contingency (40%)</i>	\$554,000
<i>10% NCDOT Oversight</i>	\$139,000
TOTAL PROJECT ESTIMATE	\$2,078,000

Notes:

1. Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
2. Quantities used in this cost opinion are approximations based on the Conceptual Exhibit exhibit provided by Kimley-Horn dated 09-29-22 and are subject to revision prior to bid.
3. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.
4. Preliminary Engineering (PE) estimate based on 25% of construction costs.
5. Real estate costs based on Cabarrus County land values and not based on a professional appraisal. Agent fee estimated based on assumption that agent will assist Town in negotiations with up to ten (10) property owners along project corridor.

Hickory Ridge Road Feasibility Study

Project Location: Town of Harrisburg
 Project Description: 5' Wide Sidewalk (-0.6 Miles) & Pedestrian Bridge (10' x 56')
 Client: Town of Harrisburg
 Client Project No. 011497047

ENGINEER'S OPINION OF PROBABLE COST OF CONSTRUCTION - Feasibility Study

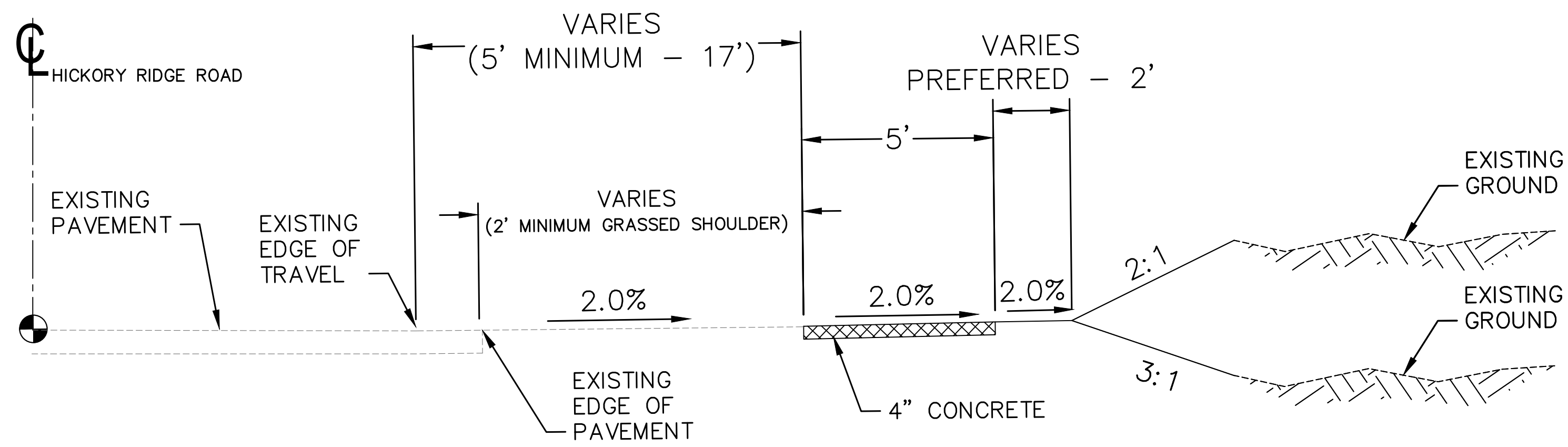
Segment -L1-					
Section	Item Description	Quantity	Unit	Unit Price	Cost
800	MOBILIZATION (10%)	1	LS	\$ 69,000.00	\$ 69,000.00
SP	COMPREHENSIVE GRADING -L1-	1	LS	\$ 100,000.00	\$ 100,000.00
610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	20	TON	\$ 200.00	\$ 4,000.00
610	ASPHALT CONC BASE COURSE, TYPE B25.0B	24	TON	\$ 200.00	\$ 4,800.00
620	ASPHALT BINDER FOR PLANT MIX	1	TON	\$ 600.00	\$ 600.00
848	6" CONCRETE DRIVEWAY	290	SY	\$ 105.00	\$ 30,450.00
848	4" CONCRETE SIDEWALK	1830	SY	\$ 85.00	\$ 155,550.00
1515	RELOCATE FIRE HYDRANT	1	EA	\$ 5,000.00	\$ 5,000.00
1746	RELOCATE EXISTING SIGN	4	EA	\$ 500.00	\$ 2,000.00
SP	6" CONCRETE WHEELCHAIR RAMPS	10	SY	\$ 300.00	\$ 3,000.00
SP	DRAINAGE	1	LS	\$ 40,000.00	\$ 40,000.00
SP	PEDESTRIAN UPGRADES AT SIGNALIZED INTERSECTION	1	EA	\$ 30,000.00	\$ 30,000.00
SP	SAFETY RAIL	100	LF	\$ 200.00	\$ 20,000.00
SP	PREFABRICATED TRUSS BRIDGE	1	LS	\$ 285,000.00	\$ 285,000.00
SP	TRAFFIC CONTROL	1	LS	\$ 35,000.00	\$ 35,000.00
SP	EROSION CONTROL	1	LS	\$ 35,000.00	\$ 35,000.00

SUBTOTAL \$819,400.00

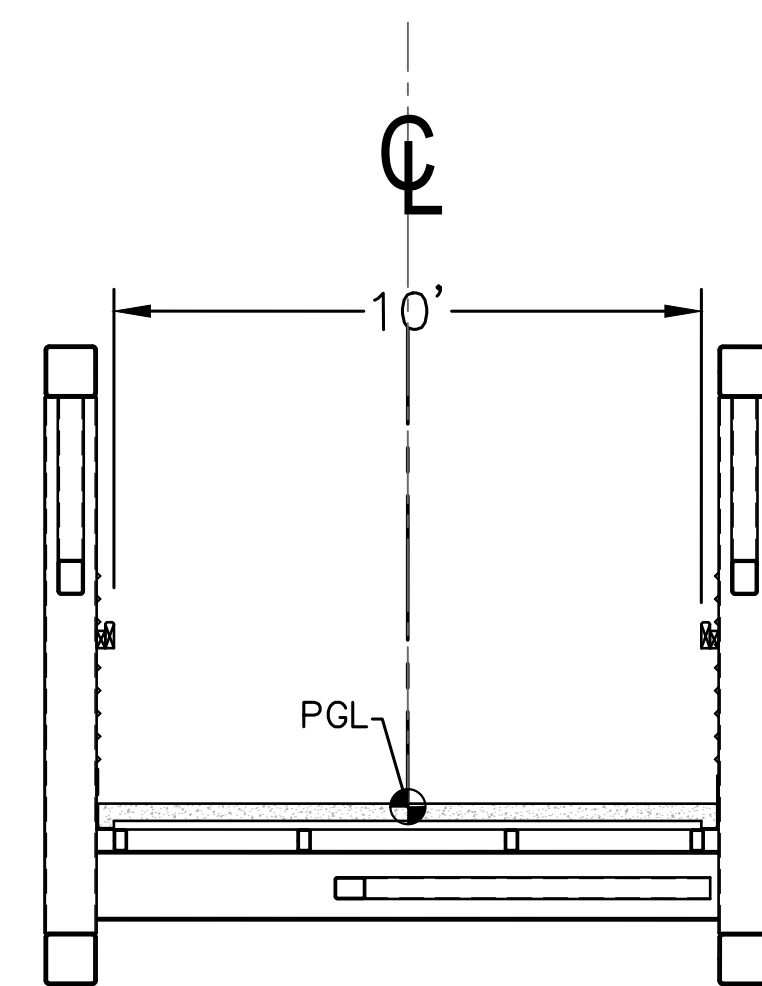
CONSTRUCTION COST SAY **\$820,000**

Notes:

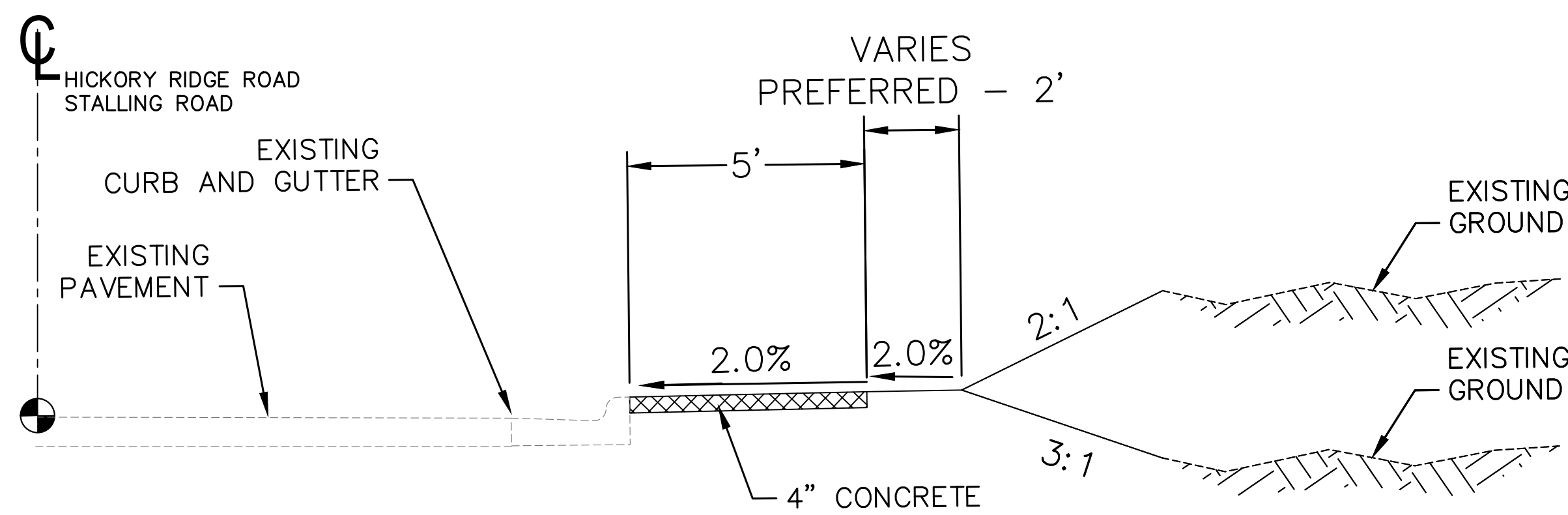
- Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
- Quantities used in this cost opinion are approximations based on the Conceptual Exhibit provided by Kimley-Horn dated 09-29-22 and are subject to revision prior to bid.
- The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.
- Preliminary Engineering (PE) estimate based on 25% of construction costs.
- Real estate costs based on Cabarrus County land values and not based on a professional appraisal. Agent fee estimated based on assumption that agent will assist Town in negotiations with up to ten (10) property owners along project corridor.



5' WIDE CONCRETE SIDEWALK - PLANTING STRIP



10' WIDE PREFABRICATED PEDESTRIAN BRIDGE



5' WIDE CONCRETE SIDEWALK - BACK OF CURB

HICKORY RIDGE ROAD SIDEWALK CONCEPTUAL EXHIBIT - ALT 1 - TYPICAL SECTIONS

DATE: 9/29/22

Drawing name: K:\CHL_PRJ\018536-Town of Harrisburg\047 Hickory Ridge Road Feasibility Study\04_CADD\Exhibits_HRR_ConceptExhibit_Final.dwg TYPICAL Sep 27, 2022 9:58pm by: Alexandra McIntyre



#5A (1/18/23)

CMAQ PROJECT APPLICATION

FOR NCDOT USE ONLY	
APP ID	STIP ID

IN ORDER TO BE CONSIDERED A COMPLETE APPLICATION PACKAGE, ALL FIELDS MUST BE APPROPRIATELY COMPLETED & REQUIRED ADDITIONAL INFORMATION AS NOTED MUST BE ATTACHED. INCOMPLETE APPLICATIONS WILL BE RETURNED.

GENERAL PROJECT INFORMATION

1 SELECT CMAQ PROJECT TYPE

PO Allocation	Competitive	DOT Allocation
---------------	-------------	----------------

2 SELECT MPO/RPO(S)

Burlington-Graham MPO	Gaston-Cleveland-Lincoln MPO	Land of Sky RPO	Triangle RPO
Cabarrus-Rowan MPO	Greensboro MPO	NW Piedmont RPO	Unifour RPO
Capital Area MPO	Hickory MPO	Rocky Mount MPO	Upper Coastal Plain RPO
Charlotte Regional TPO	High Point MPO	Rocky River RPO	Winston-Salem MPO
Durham-Chapel Hill-Carrboro MPO	Kerr-Tar RPO	Southwestern RPO	

3 PROJECT SPONSOR INFORMATION

Agency			
Contact Name			
Contact Title			
Address			
Telephone		Email Address	

4 PROJECT INFORMATION

Title	
Description	

Include project details, proposed improvements, purpose, need, how it will provide service, who are the primary stakeholders & where it will operate & serve. Attach a sketch design plan of the proposed project which shows the general location.

PROJECT COSTS & DELIVERY SCHEDULE

5 APPLICABLE PROJECT PHASES, FUNDING & YEARS

- CMAQ projects are awarded by State Fiscal Years (FY). FY runs from July 1st of the previous year to June 30th of the current year. For example, FY 2020 is from July 1, 2019 through June 30, 2020.
- Cost estimates should reflect anticipated inflation compounded annually at 5% from the current calendar year.
- Minimum 20% match is required for most projects. See 23 U.S.C. §120 paragraph (c) for listing of safety projects that may be funded at up to 100% Federal share.
- In the case of purchasing alternative fueled vehicles (AFV) for general governmental use, CMAQ funding is limited to the cost difference between standard and AFV vehicles. For example, a 2020 Ford Escape lists for \$27,000 and a 2020 Ford Escape Hybrid lists for \$33,000. The total CMAQ-eligible funding for purchase of this AFV would be: \$33,000 - \$27,000 = \$6,000 (subject to local match).

Check box if this project is not typical 80/20 split. The minimum split is 80/20.

Phases(s)	CMAQ Amount	Matching Amount	Total	FY
Planning, Engineering & Design				
Right-of-Way				
Construction				
Transit Operation				
Transit Implementation				
Non-transit Implementation				
Project Total				

6 ANTICIPATED PROJECT MILESTONE DATES

* Milestone dates must coordinate with funding schedule in Section 5.
 * Planning & environmental document; plans, specifications & estimate package; and right of way certification must be complete prior to let date.

Milestone(s)	Month/Year
Planning & Environmental document to be complete:	
Plans, Specifications & Estimate package to be complete:	
Right-of-Way acquisition to begin:	
Anticipated let date (opening of bids):	
Anticipated completion date of project (including project close-out & reimbursement of all eligible expenses):	

7 LIST THE SOURCE(S) OF MATCHING FUNDS:

8 TRANSIT START-UP INFORMATION
 Operation assistance under CMAQ is intended to help start up viable new transportation services that will benefit air quality and eventually cover their own costs. *This funding is limited to three years.* Other funding sources should supplement & ultimately replace CMAQ funds for operation assistance. Briefly describe how funding will be secured to continue the program after year three.
 (ATTACH ADDITIONAL SHEET(S) IF NEEDED)

GENERAL PROJECT INFORMATION

9 SELECT NC NONATTAINMENT/MAINTENANCE COUNTY(IES):

* Indicates partial county AQ designation

Cabarrus	Davidson	Edgecombe	Gaston	Haywood*	Lincoln	Orange	Swain*
Catawba	Davie	Forsyth	Granville	Iredell*	Mecklenburg	Person	Union
Chatham*	Durham	Franklin	Guilford	Johnston	Nash	Rowan	Wake

10 SELECT CMAQ-ELIGIBLE IMPROVEMENT TYPE (check all that apply):

Transportation Control Measures	Extreme Low-Temperature Cold Start Programs
Alternative Fuels	Congestion Relief & Traffic Flow Improvements
Transit Improvements	Bicycle/Pedestrian Facilities & Programs
Transportation Management Associations	Carpooling & Vanpooling
Freight/Intermodal	Diesel Engine Retrofits
Idle Reduction	Training
Travel Demand Management	Public Education & Outreach Activities
I/M Programs	Experimental Pilot Projects

11 IF TRANSPORTATION CONTROL METHOD, CHECK THE ALLOWABLE TYPE(S):

<input type="checkbox"/> Programs/ordinances to facilitate non-automobile travel, provision/utilization of mass transit & general reduction of the need for single occupancy vehicle (SOV) travel, as part of transportation planning & development efforts of a locality, including programs & ordinances applicable to new shopping centers, special events & other centers of vehicle activity
<input type="checkbox"/> Programs for improved public transit
<input type="checkbox"/> Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or HOV
<input type="checkbox"/> Employer-based transportation management plans, including incentives
<input type="checkbox"/> Trip-reduction ordinances
<input type="checkbox"/> Traffic flow improvement programs that reduce emissions
<input type="checkbox"/> Fringe & transportation corridor parking facilities serving multiple-occupancy vehicle programs or transit services
<input type="checkbox"/> Multiple-occupancy vehicle programs or transit service
<input type="checkbox"/> Programs to limit/restrict vehicle use in downtown areas/other areas of emission concentration during peak periods
<input type="checkbox"/> Programs for the provision of all forms of high-occupancy, shared-ride services
<input type="checkbox"/> Programs to limit portions of road surfaces/certain sections of roadway to the use of non-motorized vehicles

Programs for secure bicycle storage facilities & other facilities, including bicycle lanes in both public & private areas
Programs to control extended idling of vehicles
Reducing emissions from extreme cold-start conditions
Employer-sponsored programs to permit flexible work schedules
Public Education & Outreach Activities

12 IF TRANSIT IMPROVEMENT, SPECIFY HOW SERVICE WILL BE IMPROVED:

New facilities associated with a service increase	New vehicles used to expand the transit fleet
Operating assistance for new service (limit three years)	Fare subsidies as part of program to limit exceedances of NAAQS

13 EMISSIONS REDUCTION CRITERIA

QUANTITATIVE analysis of air quality impacts is required for most project types. **QUALITATIVE** analysis is only allowable when it is not possible to accurately quantify emissions benefits, such as public education, marketing & other outreach efforts, which can include advertising alternatives to SOV travel, employer outreach & public education campaigns. The qualitative analysis should be based on a reasoned & logical determination that the project/program will decrease emissions & contribute to attainment or maintenance of NAAQS. The primary benefit of these activities enhanced communication & outreach that is expected to influence travel behavior & air quality.

• **Indicate the type of analysis completed:** Quantitative Qualitative

For QUANTITATIVE analyses, list the expected daily emissions BEFORE and AFTER project implementation:

Pollutant	Daily Emissions Before (kg)	Daily Emission After (kg)	Daily Emissions Reduction (kg)
Carbon Monoxide (CO)			
Volatile Organic Compounds (VOC)			
Oxides of Nitrogen (NOx)			
Particulate Matter (PM2.5)			
Carbon Dioxide equivalent (CO ₂ e)			
Total Daily Emissions (kg)			

• **Describe the method used to estimate the emissions reduction and show calculations: (ATTACH ADDITIONAL SHEET(S) IF NEEDED)**

14 MISCELLANEOUS

For construction of trails, has the Department of Interior been contacted	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="checkbox"/> N/A
Is the fare/fee subsidy program part of a broad program to reduce emissions	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="checkbox"/> N/A
Will the ITS project conform to the National ITS architecture	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="checkbox"/> N/A

15 SUPPORTING INFORMATION CHECK LIST

Check supporting information included as attachment(s) to this application:

MPO/RPO Support Resolution (Required for PO ALLOCATION proposals)
Additional project description and/or details
Map of general project location
Complete emissions calculations
Any assumptions used
Other, please specify:

16 MPO/RPO PRIORITY INFORMATION (OPTIONAL)

This project has been prioritized by the MPO/RPO and received the following ranking among all CMAQ requests:

17 SUBMIT


- 1) SAVE APPLICATION AND ALL ATTACHMENTS IN A SINGLE PDF DOCUMENT
- 2) Upload application as single PDF document to CMAQ Sharepoint Website



- CONCEPT SCOPE:**
1. SIDEWALK ON THE SOUTH SIDE OF BETHPAGE ROAD WITH PEDESTRIAN CONNECTIONS IN THE THREE BOXED AREAS.
 2. 2'-6" CURB AND GUTTER
 3. 7' SIDEWALK AT BACK OF CURB. THE UTILITY POLES MAY BE THE LIMITING FACTOR FOR SIDEWALK WIDTH. 5' MINIMUM SIDEWALK WIDTH. UTILITIES AND R/W WILL DICTATE WHETHER A PLANTING STRIP CAN BE PROVIDED.
 4. PLAN FOR ONE PUBLIC MEETING. THE CITY WILL BE RESPONSIBLE FOR SECURING THE LOCATION.
 5. ASSUME THAT NCDOT WILL REQUIRE PEDESTRIAN SIGNALIZATION AT BETHPAGE AND MAIN.
 6. ASSUME ALL EXISTING RECEIVING CURB RAMPS WILL BE UPGRADED TO BE ADA COMPLIANT.

**BETHPAGE ROAD
CONCEPT SCOPING MAP**

SCALE 1" = 100'


 Printed on 1/16/23

PROPOSAL FOR CMAQ FUNDING
FOR THE CONSTRUCTION OF SIDEWALKS ON BETHPAGE ROAD

Project Overview

The City of Kannapolis is pleased to submit this application in response to NCDOT's recent request for projects to be funded using Congestion Mitigation and Air Quality funds. This proposal is to obtain CMAQ funds in the amount of \$1,985,600 (federal portion) to construct 3,300 feet of sidewalk on Bethpage Road.

Background

The City of Kannapolis experienced a major increase in urban growth over the past fifteen years that was not a result of annexation. The city's "natural" or non-annexation growth is tied for 10th in the State among the 25 largest cities and is a higher percentage than such cities as Raleigh, Greensboro, Hickory and Concord.

In order to better prepare for this growth and in order to establish guidelines for future development, the City of Kannapolis adopted the 2015 Land Use Plan on July 26, 2004. As this plan points out, this growth is expected to continue into the future and the best way to prepare for it is to proactively seek measures that will reduce the negative impacts that growth can have on transportation services and ultimately air quality. As with most areas that are experiencing higher than average growth, the roadways and transportation systems in Kannapolis cannot keep pace. The establishment of greenways and pedestrian routes is one way to positively mitigate the impact of such intense growth.

Bethpage Road is located in the western portion of Kannapolis and it links the Main Street area to NC Hwy 3. The area along Bethpage Road is a high density residential area. The Bethpage Road Phase 1 sidewalk will encourage residents in the area to access Downtown via the sidewalk connecting to Main Street, Leonard Avenue and Loop Road. A future Bethpage Road Phase 2 sidewalk, along the western portion of Bethpage Road, will connect to Walter Safrit Park to encourage access via the sidewalk, rather than traveling in vehicles.

Proposal

In response to the City of Kannapolis' 2015 Land Use Plan, and the impact that this sidewalk is anticipated to have, the City of Kannapolis is applying for \$1,985,600 of CMAQ funds to construct a sidewalk on Bethpage Road. The proposed sidewalk would run for approximately 3,300 linear feet of Bethpage Road. By providing a much needed pedestrian route, the construction of this sidewalk would contribute to the reduction of congestion and will in turn decrease vehicle emissions. Once completed, this facility would certainly improve air quality in the area.

The request is for Capital Assistance for the construction of the sidewalk. This request is to supplement already approved CMAQ funding of \$208,000 (Federal portion) per Municipal Agreement dated August 29, 2019 being used for this project. The total project cost is estimated at \$2,742,000 of which \$260,000 is funded by the August 29, 2019 Agreement leaving a requested amount of \$2,482,000. This request would fund

right of way and construction to complete the project. The City of Kannapolis intends to provide the local matching funds (20%) as required by the funding agreement.

BUDGET

Capital Construction

	Total	Federal	Local
Bethpage Road Sidewalk	\$2,482,000	\$1,985,600	\$496,400

Operating Assistance

NA

Total Amount

\$2,482,000 \$1,985,600 \$496,400

Emission Reduction Calculation

There are approximately 4,200 vehicles per day on Bethpage Road. A relatively small percentage (around ten percent) of these vehicle trips would have an origin or destination in Walter Safrit Park or to the businesses on S. Main Street. It is safe to assume that approximately 0.2 percent of these vehicle trips would be converted to pedestrian or bicycle trips with the construction of the proposed projects. 0.2 percent of the VPD, converted to pedestrian or bicycle trips would be 8 motorized vehicle trips eliminated daily.

The annual emissions reduction for each pollutant was calculated using the online FHWA’s CMAQ Toolkit.

https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/

The emission calculator output is attached.

Estimated Useful life of the Project

The City estimates that the sidewalk and overall pedestrian system will be operated in perpetuity.

Project Timetable

The City is currently designing the project and the City intends to proceed with the right of way acquisition in August 2023 with an anticipated construction let date of April 2024.

Bicycle and Pedestrian Improvements

This calculator will estimate the reduction in emissions resulting from improvements to bicycle and pedestrian infrastructure and associated mode shift from passenger vehicles to bicycling or walking, including but not limited to sidewalks, dedicated bicycle infrastructure, improved wayfinding, mid-block crossing installations, bike share systems, and bike parking improvements.

Navigator

Bicycle and Pedestrian Improvements

INPUT

(1) What is your project evaluation year?

(2) Estimate the shift in daily motorized passenger vehicle trips to non-motorized travel due to the bicycle and pedestrian project.

Daily Passenger Vehicle Trips		
Before	After	Change
4100	4092	8

(3a) Select the data type used for entering the typical one-way trip distance of passenger vehicles below:

Trip Distance Source

(3b) If you selected "Average" above, enter the typical one-way trip distance. If you selected "Distribution" above, enter the typical distribution of one-way trip distances.

Typical Trip Distance (miles one way)	Distribution of Trip Distances (daily fraction per mileage bin)					Sum
	$x < 1$	$1 \leq x < 2$	$2 \leq x < 3$	$3 \leq x < 4$	$4 \leq x \leq 5$	
<input type="text" value="2.494"/>	20.65%	37.26%	20.43%	13.47%	8.19%	100.0%

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total	*Units in kg/day unless otherwise noted
Carbon Monoxide (CO)	0.058	
Particulate Matter <2.5 μm (PM _{2.5})	0.000	
Particulate Matter <10 μm (PM ₁₀)	0.001	
Nitrogen Oxide (NOx)	0.003	
Volatile Organic Compounds (VOC)	0.002	
Carbon Dioxide (CO ₂)	7.029	
Carbon Dioxide Equivalent (CO ₂ e)	7.061	
Total Energy Consumption (MMBTU/day)	0.095	

**CABARRUS-ROWAN MPO
RESOLUTION ENDORSING CANDIDATE CMAQ PROJECT
PROPOSALS**

WHEREAS, the Infrastructure Investment and Jobs (IIJ) Act (Public Law 117-58, November 15, 2021) continues the Congestion Mitigation and Air Quality Improvements Program (CMAQ) (23 U.S.C. 149); and

WHEREAS, CMAQ is a Federal program that funds transportation projects and program in air quality non-attainment and maintenance areas to help achieve and maintain national standards for pollutants; and

WHEREAS, the NCDOT administers the CMAQ program on behalf of non-attainment and maintenance areas within North Carolina; and

WHEREAS, the CRMPO has administered a CMAQ project selection process among local area jurisdictions in air quality non-attainment and maintenance counties; and

WHEREAS, the resulting candidate project proposal meets the requirements of CMAQ and the guidelines established by NCDOT to administer the program; and

WHEREAS, upon approval of the candidate project proposal for CMAQ funding by the NCDOT, the CRMPO will amend the Metropolitan Transportation Plan and the MTIP to include this project;

NOW THEREFORE, be it resolved that the CRMPO endorses the attached listing of proposed CMAQ candidate projects provided here on this, the 25th day of January 2023.

I, Ryan Dayvault, TAC Chair, do hereby certify that the above is a true and correct copy of the action of the CRMPO Transportation Advisory Committee duly held on this, the 25th day of January 2023.

Ryan Dayvault, Chair
Transportation Advisory Committee

FTA CODE	TASK CODE	TASK DESCRIPTION	MPO Planning and Admin - PL104			Transit Planning - 5303				SECTION 5307				TIGER II			STP-DA Flex Funds		
			Local 20%	Federal 80%	TOTAL	Local (10%)	State (10%)	Federal (80%)	Fund Total	Local	State	FTA 80%	5307 Total	Local	Federal	TIGER	Project	Local	Federal
	II-A	Data and Planning Support	\$ 19,538	\$ 78,151	\$ 97,688	\$19,564	\$19,564	\$156,511	\$195,639										
44.24.00	II-A-1	Networks and Support Systems	\$ 3,900	\$ 15,600	\$ 19,500	\$19,564	\$19,564	\$156,511	\$195,639										
44.23.01	II-A-2	Travelers and Behavior	\$ 3,150	\$ 12,600	\$ 15,750														
44.23.02	II-A-3	Transportation Modeling	\$ 12,488	\$ 49,951	\$ 62,438														
	II-B	Planning Process	\$ 42,970	\$ 171,880	\$ 214,850														
44.23.02	II-B-1	Targeted Planning	\$ 8,160	\$ 32,640	\$ 40,800														
44.23.01	II-B-2	Regional Planning	\$ 13,010	\$ 52,040	\$ 65,050														
		Safe and Accountable Transportation Options	\$ 3,850	\$ 15,400	\$ 19,250														
44.27.00	II-B-3	Special Studies	\$ 21,800	\$ 87,200	\$ 109,000														
	III-A	Planning Work Program	\$ 2,400	\$ 9,600	\$ 12,000														
44.21.00	III-A-1	Planning Work Program	\$ 1,000	\$ 4,000	\$ 5,000														
44.24.00	III-A-2	Metrics and Performance Measures	\$ 1,400	\$ 5,600	\$ 7,000														
	III-B	Transp. Improvement Plan	\$ 3,900	\$ 15,600	\$ 19,500														
44.25.00	III-B-1	Prioritization	\$ 2,400	\$ 9,600	\$ 12,000														
44.25.00	III-B-2	Metropolitan TIP	\$ 1,000	\$ 4,000	\$ 5,000														
44.25.00	III-B-3	Merger/Project Development	\$ 500	\$ 2,000	\$ 2,500														
	III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$ 3,250	\$ 13,000	\$ 16,250														
44.27.00	III-C-1	Title VI Compliance	\$ 250	\$ 1,000	\$ 1,250														
44.27.00	III-C-2	Environmental Justice	\$ 1,000	\$ 4,000	\$ 5,000														
44.27.00	III-C-3	Minority Business Enterprise Planning																	
44.27.00	III-C-4	Planning for the Elderly																	
44.27.00	III-C-5	Safety/Drug Control Planning																	
44.27.00	III-C-6	Public Involvement	\$ 2,000	\$ 8,000	\$ 10,000														
44.27.00	III-C-7	Private Sector Participation																	
	III-D	Statewide & Extra-Regional Planning	\$ 15,380	\$ 61,520	\$ 76,900														
44.27.00	III-D-1	Statewide & Extra-Regional Planning	\$ 15,380	\$ 61,520	\$ 76,900														
	III-E	Management Ops, Program Suppt Admin	\$ 15,600	\$ 62,400	\$ 78,000														
44.27.00		Management Operations	\$ 15,600	\$ 62,400	\$ 78,000														
44.27.00		Program Support Administration	\$ -	\$ -	\$ -														
		TOTALS	\$ 103,038	\$ 412,151	\$ 515,188	\$19,564	\$19,564	\$156,511	\$195,639	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

II-A Data and Planning Support

This section covers data and processes used to support transportation planning related to transportation infrastructure.

Programmed Amount: \$97688

19% of staff budget

II-A-1 Networks and Support Systems Total: \$ 19500

- The Cabarrus-Rowan MPO will create and maintain spatial data for the MPO planning area.
- Provide the public and MPO members with traffic count data from the NCDOT traffic count program.
- The Cabarrus-Rowan MPO will update GIS data for fixed routes, deviated fixed routes, service areas, and ridership for transit providers in the region.
- Maintain a GIS inventory of existing data from local, state, and federal partners related to bicycle and pedestrian transportation facilities. Continue to update sidewalk, greenways and bicycle facility data based on data available from local partners.
- Develop online mapping for displaying 2050 MTP, socioeconomic data, and other NCDOT-generated GIS layers.
- The MPO will pay the annual fee for the Remix software.

II-A-2 Travelers and Behavior Total: \$ 15750

- The Cabarrus-Rowan MPO will maintain an inventory of building permit data to generate a base year update and report land use changes by Transportation Analysis Zone on an annual basis.
- CRMPO staff will update the major employer data (part of InfoUSA database) that was recently used in the Metrolina Regional Model.

II-A-3 Transportation Modeling Total: \$ 62438

- CRMPO will provide the CR MPO portion of the Model Custodian staff-generated expenses for the Metrolina Regional Travel Model Maintenance.

II-B Planning Process

Tasks within this category are related to the development of the MPO Metropolitan Transportation Plan and Comprehensive Transportation Plan. Federal regulations require each MPO to have a fiscally-constrained long range transportation plan looking out at least 20 years. The plan must be updated every four years. The MPO also participates in the development of the Comprehensive Transportation Plan. The plan is developed jointly with NCDOT and reflects the vision and long term needs of the transportation system. In addition, the MPO is responsible for a number of ongoing long-range planning activities such as corridor studies, congestion management monitoring and air quality planning.

Programmed Amount: \$214850

21% of staff budget (excludes Special Studies)

II-B-1 Targeted Planning Total: \$ 40800

- Participate in IIJ Act related trainings and workshops
- Begin work on the 2055 MTP Update including the financial plan, highway networks, congestion management strategies, air quality and conformity planning and documentation.
- Forecast of travel patterns using the Metrolina Regional Model

II-B-2 Regional Planning Total: \$ 65050

- Support the next CTP Update including assembling the Steering Committee and setting up a process for public and stakeholder input
- Review MTP items that are the responsibility of the MPO staff; begin implementation as appropriate.
- Work with transit providers in the region to implement Section 5307 formula distribution; assist providers with any changes in federal or state funding programs and five-year CTSPs as needed.
- Coordinate with private freight carriers in the region to identify major freight needs in the region including key corridors, bottlenecks, truck parking issues and potential projects where NCDOT/CRMPO can facilitate cooperation; incorporate their plans into the MTP
- Mapping in support of TIP, Merger, Long Range Planning, Prioritization, and any background material for the Board, Committees, workgroups, and the public.
- Address Safe and Accountable Transportation Options thru Mobility Plan for the counties or as a whole planning area

II-B-3 Special Studies : \$ 109000:

- The CRMPO staff will assist subgrantee members with reporting requirements and maintain the budgets for projects funded through this UPWP category.

III-A Unified Planning Work Program

The single task within this category relates to the preparation and monitoring of the MPO Unified Planning Work Program, and preparation of quarterly reports, the annual report, and requests for reimbursement.

Programmed Amount: \$12000

2% of staff budget

III-A-1 Planning Work Program Total: \$ 5000

- The Cabarrus-Rowan MPO will develop a Planning Work Program (PWP) with the guidance of the Technical Coordinating Committee (TCC) and MPO Board; Present the UPWP for approval to the Transportation Advisory Committee.
- Develop the FY 2024 - FY 2029 Planning Work Program Calendar
- Prepare quarterly reports, the annual report, and requests for reimbursement

III-A-2 Metrics and Performance Measures Total: \$ 7000

- Provide the release of statewide performance measures to the TCC and TAC and amend the 2050 MTP as needed to reflect those performance measures

III-B Transportation Improvement Program

This category relates directly to the identification and prioritization of transportation improvement projects within the MPO area on an on-going basis, coordination of the MTIP with the STIP and SPOT processes, the development of the MTIP, and processing of MTIP amendments.

Programmed Amount: \$19250

4% of staff budget

III-B-1 Prioritization Total: \$ 12000

- Maintenance of a prioritized needs list or SPOT Prioritization list of potential STIP projects.
- Work with subcommittee to update and improve local prioritization process for SPOT and STP-DA/TA projects.
- Data, Maps and Resolutions for STIP Project Recommendations as needed.
- Attendance of any STIP- or SPOT-related meetings.
- Gathering and entry of data required for SPOT ranking of projects.
- Field questions from TIP Unit on projects questions and funding requests about locally administered projects.

III-B-2 Metropolitan TIP Total: \$ 5000

- Work cooperatively with NCDOT and other partner agencies to review Draft and final STIP and review and adopt the corresponding metropolitan area TIP.
- Review and refine schedules and descriptions for TIP projects in the Draft TIP.
- Coordinate meaningful public involvement in the TIP process and in review of the TIP.

III-B-3 Merger/Project Development Total: \$ 2500

- Review design issues for TIP Projects and provide comments to appropriate agencies.
- Participate in the environmental study process for TIP projects and provide MPO representation to the NEPA/401 Merger Teams.
- Provide additional information related to purpose and need statements as requested

III-C. Civil Rights Compliance (Title VI) and Other Regulatory Requirements

Tasks within this category relate to the goal of integrating public involvement and context sensitivity into every aspect of the MPO

Programmed Amount: \$16250

3% of staff budget

III-C-1 Title VI Compliance Total: \$ 1250

- Conduct ongoing analysis of all MPO planning activities for compliance with Title VI of the Civil Rights Act of 1964; 49 CFR part 21.
- Implementation of Title VI documentation and policies

III-C-2 Environmental Justice Total: \$ 5000

- Analysis and outreach to insure that transportation plans and projects comply with Environmental Justice policies.

III-C-3 Public Involvement Total: \$ 10000

- Develop outreach efforts for effectively communicating with the community about transportation planning and projects.
- Increase public involvement through updates to the CRMPO website.
- Place advertisements in media outlets as required by Public Participation Plan.
- Respond to interview and data requests from the media & public.
- Ensure compliance with North Carolina general statutes regarding open meetings and public records.

III-D. Statewide and Extra-Regional Planning

Tasks within this category relate to the unique role that the MPO plays within our region and illustrate the broad impacts of transportation on the built and natural environment, and includes working to understand and help craft planning policy and standards at the statewide level.

Programmed Amount: \$76900

15% of staff budget

III-D Statewide and Extra-Regional Planning Total: \$ 76900

- Coordinate with other regional, state and federal agencies involved in transportation planning activities; monitor federal and state legislation.
- Participate in the North Carolina Association of MPOs and attend ongoing statewide meetings to discuss transportation planning issues.
- Participate in and coordinate regional planning activities such as CRAFT, Metrolina Regional Model, Interagency, SICM, NCAMPO, etc.

III-E. Management and Operations

This category relates to the on-going administrative responsibilities related to the MPO, including support of both the Transportation Coordinating Committee and the MPO Board.

Programmed Amount: \$78000

15% of staff budget

III-E Management Ops, Program Support Admin Total: \$ 78000

- Provide direct support to the MPO Governing Board and Technical Coordinating Committee (TCC), including agenda preparation and circulation, preparation of minutes, and scheduling, notification, virtual arrangement, venue setup and breakdown, and facilitation of both in-person and virtual meetings.
- Procure supplies related to transportation planning activities.
- Support staff training and development.
- Cover direct costs associated with MPO administration.

MPO	Cabarrus-Rowan
FTA Code	44.24.00
Task Code	II-A-1
Title	Network and Support Systems
Task Objective	Rider and Cabarrus County completed a Long Range Transit Plan to assess the type and level of transit services needed (locally and regionally) for all public transit in Cabarrus County over the next 20 years. Rider and Cabarrus County will continue work on a Consolidation Implementation Study as well as an update to the DBE Goals and Plan, and a Customer Satisfaction Survey by Rider.
Tangible Product Expected	Quarterly and annual reporting information / statistics
Expected Completion Date of Products	Continuous
Previous Work	Rider System planning
Relationship	Transit Planning
Responsible Agency	LPA / PTD
SPR - Highway - NCDOT 20%	
SPR - Highway - F11WA 80%	
Section 104 (f) PL, Local 20%	3,900
Section 104 (f) PL, FHWA 80%	15,600
Section 5303 Local 10%	19,564
Section 5303 NCDOT 10%	19,564
Section 5303 FTA 80%	156,511
Section 5307 Transit - Local 10%	
Section 5307 Transit - NCDOT 10%	
Section 5307 Transit - FTA 80%	
Additional Funds - Local 100%	

Cabarrus-Rowan MPO Local Match Table

MPO Member	2010 Pop.	Percent	
Concord	79,066	24.99%	\$ 18,449
Rowan County	76,698	24.24%	\$ 17,897
Cabarrus County	49,500	15.64%	\$ 11,550
Kannapolis	42,625	13.47%	\$ 9,946
Salisbury	33,527	10.60%	\$ 7,823
Harrisburg	11,526	3.64%	\$ 2,689
China Grove	4,162	1.32%	\$ 971
Spencer	3,267	1.03%	\$ 762
Landis	3,096	0.98%	\$ 722
Midland	3,073	0.97%	\$ 717
Granite Quarry	2,930	0.93%	\$ 684
Rockwell	2,108	0.67%	\$ 492
E. Spencer	1,534	0.48%	\$ 358
Mount Pleasant	1,652	0.52%	\$ 385
Cleveland	868	0.27%	\$ 203
Faith	807	0.26%	\$ 188
Total	316,439		\$ 73,838

Cabarrus-Rowan MPO
Transportation Update
January 13, 2023

TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
PROJECTS UNDER CONSTRUCTION								
17BP.9.R.82	Replace Bridge #248 over Prong of Grant's Creek on SR 1211 (Kimball Rd) in Rowan County	June 15, 2022	March 21, 2023	54% Complete	\$927,455	Mountain Creek Contractors, Inc.	Kelly Seitz, P.E. (704) 630-3200	Mountain Creek closed the road to traffic on August 22, 2022. Project delayed by material procurement for wet utilities. Culvert construction is ongoing. Crews have poured the floor and walls, and currently working on the culvert roof. Expected open to traffic date around the end of February 2023.
B-4626 38443.3.3 (C204446)	Replace Bridge #3 (EBL), and apply Bridge Preservation Treatment to Bridge #8 (WBL), over Yadkin River/W-S SB RR on NC 49 in Rowan County	February 1, 2022	January 28, 2025	7% Complete	\$41,332,703	Smith-Rowe	Jeb Smith, PE (704) 630-3220	Smith-Rowe will work on NC-49 from 7am-5:30pm Monday-Friday. No weekend work is anticipated at this time. Smith-Rowe started sawcut/demo EBL bridge on 9/19/2022. The project is anticipated to be completed by January 2025.
B-5772 45728.3.1	Replace Bridge #66 over Norfolk Southern RR on SR 1724 (Hurley School Rd) in Rowan County	October 1, 2022	November 11, 2024	0% Complete	\$7,196,375	Smith-Rowe	Kelly Seitz, P.E. (704) 630-3200	A preconstruction meeting was held August 23, 2022. Due to steel storage the bridge girders will not be available until September 2023. With this delay, construction activities will not begin until January 2023.
HE-0009A	NC 152 Improvements with Proposed Access Road East of I-85/US 601 in China Grove. Intermediate intersection improvements. Widen pavement and construct turn lanes for phase I of roadway improvements.	November 7, 2022	TBD	25% Complete	\$1,000,000	State Forces	Mike Hedrick, PE (704) 630-3240	Economic Development project. Construction started on November 7, 2022.
I-5858 53061.3.GV1 (C204244)	Pavement Rehabilitation on I-85 from US 29/US 601 in China Grove to US 601 (Jake Alexander Blvd) in Salisbury AND from S. of US 52 in Salisbury to N. of SR 2120 (Long Ferry Rd) in Spencer (totaling 10.88 miles)	July 1, 2019	Anticipated October 31, 2022	96% Complete	\$20,098,579	Blythe Development Co.	Jeb Smith, PE (704) 630-3220	Contractor has final pavement markings/markers and punch list remaining. Anticipated completion end of October 2022.
U-5738 50163.3.1 (C204426)	Widen to multiple lanes on SR 2528 (Julian Rd) from US 601 (Jake Alexander Blvd) to SR 2667 (Summit Park Dr) in Salisbury	March 28, 2022	January 28, 2025	4% Complete	\$13,039,376	J. T. Russell and Sons	Jeb Smith, PE (704) 630-3220	Contractor has begun clearing operations, expect utility crews to be onsite beginning work at Town Creek site late September/early October 2022.
R-5789H (DI00303)	ADA Ramps, Curb and Gutter, Sidewalk Construction on various routes in Davidson, Davie, Forsyth, Rowan, and Stokes.	October 31, 2022	TBA	0% Complete	\$964,376	Carolina Group Properties LLC	Kelly Seitz, P.E. (704) 630-3200	A preconstruction meeting was held on October 26, 2022. At that time the contractor submitted a progress schedule showing no work beginning until February 2023.
HL-0005	Various, City of Salisbury Signal System Upgrade.	September 30, 2022	Fall 2023	Precon Held 12-6-22	\$282,000	ALS of NC	Wendy Brindle (704) 638-5201	The city has advertised once in May 2022 with no bidders. Project has been readvertised for a Sept. 2022 bid opening. Project awarded. Precon Held. Start construction January 2023.
PROJECTS UNDER DEVELOPMENT								
HE-0009	NC 152 Improvements with Proposed Access Road East of I-85/US 601 in China Grove	2023	TBD	Planning/Design in Progress	\$3,900,000	TBD	Ryan Newcomb, PE (336) 747-7800	Economic Development project. PE work has started. 25% plans are complete. Hydro approved. RW plans expected by end of December 2022.
HS-2009D	Extend concrete median and install U-turn bulb out on Jake Alexander Blvd east of Morlan Park Rd in Salisbury	May 24, 2023	TBA	ROW Acquisition in progress	\$350,000	TBA	Matt Jones, PE (336) 747-7800	Spot Safety project.
P-5726 47604.3.1 (C204343)	NS Main - Construct Track Improvements, Second Platform, Pedestrian Underpass, Sitework, Retaining Wall, and Signalling Equipment	2024	TBA	ROW Acquisition in progress	\$8,599,000	TBA	Matthew Simmons, PE (919) 707-4117	Raleigh Let
P-5726A	Salisbury train station second platform and pedestrian underpass.	2023	TBA	ROW Acquisition in progress	\$2,500,000	TBA	Matthew Simmons, PE (919) 707-4117	Raleigh Let
P-5726B	Salisbury Norfolk Southern crossover relocation.	2023	TBA	ROW Acquisition in progress	\$4,000,000	TBA	Matthew Simmons, PE (919) 707-4117	Raleigh Let
P-5733 47612.3.1	NS Main - Rowan County - Upgrade Station Building, expand waiting space and surface parking	2026	TBA	ROW Acquisition 2025	\$2,600,000	TBA	Matthew Simmons, PE (919) 707-4117	*The PE work for this project has been temporarily suspended.*

Cabarrus-Rowan MPO
Transportation Update
January 13, 2023

TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
PROJECTS UNDER DEVELOPMENT								
R-5860 47548.3.1	Widen to multilanes - US 52 Rowan County Proposed Misenheimer Bypass to Proposed Rockwell Bypass (4.6 miles)	July 21, 1905	TBA	ROW Acquisition 2027	\$39,321,000	TBA	Alexander Foster (919) 707-6239	DDRL *The PE work for this project has been temporarily suspended.*
U-5901 44705.3.1	Airport Parkway –Construct 2-lane roadway on Multilane right of way in new location from SR 1710 (Harrison Rd) near US 70/601 (Jake Alexander Blvd) to SR 2539 (Peach Orchard Rd) at US 29 in Salisbury	2030	TBA	ROW Acquisition 2027	\$39,502,000	TBA	Ryan Newcomb, PE (336) 747-7800	DDRL - Raleigh Let. *The PE work for this project has been temporarily suspended.* Express design update in progress to update project estimate. Project is now on the PE Move Forward List. Working on scope and fee for PE. Request for PE funds approved by BOT.
U-6062 47486.3.1	Upgrade SR 2739 (N. Main St and S. Main St) to incorporate Bicycle Lanes and Sidewalks, from SR 2000 (Jackson Park Rd/N. Loop Rd) in Kannapolis to SR 1211 (Kimball Rd) in China Grove	2031	TBA	ROW Acquisition 2028	\$28,400,000	TBA	Ryan Newcomb, PE (336) 747-7800	DDRL - *The PE work for this project has been temporarily suspended.* Express design update in progress to revise project estimate.
U-6130 48321.3.1	Construct ramp and intersection improvements on US 29 at NC 152 in China Grove	Funded for Preliminary Engineering Only	Funded for Preliminary Engineering Only	Funded for Preliminary Engineering Only	\$2,000,000	Funded for Preliminary Engineering Only	Ryan Newcomb, PE (336) 747-7800	Division POC (DPOC) *The PE work for this project has been temporarily suspended.*
W-5709E 44855.3.5	Construct Roundabout and other safety improvements at Intersection NC 153 (Rice Street) and SR 1197 (Cannon Farm Rd) in China Grove	August 28, 2024	TBA	ROW Acquisition in progress	\$700,000	TBA	Matt Jones, PE (336) 747-7800	Division POC Let (DPOC) - Project is progressing with design and right of way acquisition. Due to project suspensions, the right of way acquisition and utilities were delayed, and appraisals had to be updated. The Let Date for the project will be delayed; the Division is in discussion with NCDOT Traffic Safety Unit and the STIP unit on project funding and schedule. Right of Way acquisition has also been delayed.
Y-5500IA 80000.2.1.12	SR 1526 (Henderson Grove Church Rd) RR Crossing #724 362M Closure	September 27, 2023	TBA	ROW Acquisition in progress	\$2,950,000	TBA	Matt Jones, PE (336) 747-7800	Division POC Let (DPOC) - R/W Plans Complete (RPC)(09/02/2021)
STATE FORCES CONSTRUCTED PROJECTS								
48921	Construct right turn lane on SR 1210 (Old Beatty Ford Rd) at US 29.	July 26, 2023	TBA	TBA	\$361,000	State Forces	Matt Jones, PE (336) 747-7800	High Impact Low Cost (HILC) project - Project released to move forward. Let date being re-evaluated.
SM-5709G	Construct left turn lane on NC 152 at US 29 in Chana Grove	April 15, 2023	TBA	TBA	\$290,000	State Forces	Matt Jones, PE (336) 747-7800	
DIVISION BRIDGE PROJECTS UNDER DEVELOPMENT								
15BPR.74	Bridge Rehabilitation - Bridge #137 and #465 on I-85 over Yadkin River.	April 15, 2025	TBA	TBA	\$4,200,000	TBA	Daniel Dagenhart (336) 747-7800	In development
17BP.9.R.76	Replace Bridge #81 over Deals Creek on SR 1926 (Hannah's Ferry Rd) in Rowan County	May 17, 2023	TBA	ROW Acquisition in progress	\$750,000	TBA	Daniel Dagenhart (336) 747-7800	Final Plans recieved - FERC permit acquired. We have ran into issues with State properties and multiple State agencies affecting the ROW.
17BP.9.R.80	Replace Bridge #155 over Second Creek on SR 2136 (Agner Rd) in Rowan County	February 15, 2023	TBA	ROW Acquisition in progress	\$750,000	TBA	Daniel Dagenhart (336) 747-7800	FERC Permit underway. Project on schedule.
17BP.9.R.85	Replace Bridge #198 and Bridge #199 over Crane Creek on SR 2529 (St. Paul Church Rd) in Rowan County	May 24, 2023	TBA	ROW Acquisition Oct. 26, 2022	\$1,200,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
17BP.9.R.86	Replace Bridge #205 over Grant's Creek on SR 1516 (Airport Rd) in Rowan County	May 24, 2023	TBA	ROW Acquisition in progress	\$1,000,000	TBA	Daniel Dagenhart (336) 747-7800	Project is on schedule.
17BP.9.R.96	Replace Bridge #254 over Kerr Creek on SR 1547 (Caldwell Rd) in Rowan County	February 28, 2024	TBA	ROW Acquisition Jan. 28, 2023	\$900,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
BP9-R004 BP9-R004.3 (formerly 17BP.9.R.78)	Replace Bridge #235 over Unnamed Creek on SR 1322 (Ebenezer Rd) in Rowan County	February 14, 2024	TBA	ROW Acquisition in progress	\$750,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
BP9-R012 BP9-R012.3 (formerly 17BP.9.R.105)	Replace Bridge #108 over Tuckertown Reservoir on SR 1004 (Stokes Ferry Rd) in Rowan County	August 23, 2024	TBA	ROW Acquisition July 23, 2023	\$1,500,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.

Cabarrus-Rowan MPO
Transportation Update
 January 13, 2023

TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
LOCALLY ADMINISTERED PROJECTS								
C-5603D 43713.3.4	Construct sidewalks on Old Concord Rd from Ryan St to Jake Alexander Blvd	July 29, 2023	TBA	ROW Acquisition in progress	\$414,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - City of Salisbury - in design. The City has received ROW phase authorization
C-5603H 43713.3.8	Brenner Ave from Statesville Blvd. to W Horah St and Brenner Ave. at Link Ave. in Salisbury	March 31, 2023	TBA	ROW Acquisition in progress	\$643,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - City of Salisbury - in design. The City has received ROW phase authorization
EB-5619B 56033.3.3	Grants Creek Greenway - Construct Multi-use trail from Kelsey Scott Park to Forestdale Dr in Salisbury	September 29, 2023	TBA	ROW Acquisition in progress	\$1,439,000	TBA	Wendy Brindle (704) 638-5201	NON-DOT let (LAP)
EB-5861	Third Street Greenway from 3rd Street to Yadkin River in Spencer. Construct alternate route, including spur from Grants Creek	September 30, 2024	TBA	TBA	TBA	TBA	Joel Taylor (704) 633-5331	Non-DOT let (LAP)
HL-0049	US 70 / US 601 (Jake Alexander Blvd) to Milford Hills Rd in Salisbury. Construct Median; Construct roundabout at Milford Hills Rd.	September 30, 2024	TBA	ROW Acquisition Sept. 1, 2023	\$830,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP)
COMPLETED PROJECTS								
47797	Construct turn lanes on SR 2528 (Heilig Rd) at SR 1006 (Faith Rd) to improve safety and congestion	April 30, 2022 (State Forces)	August 1, 2022	100% Complete	\$462,500	State Forces	Mike Hedrick, PE (704) 630-3240	High Impact Low Cost (HILC) project

TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
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RAILROAD PROJECTS

PROJECTS UNDER DEVELOPMENT

RAILROAD	Y-4810K	Rogers Lake Road Grade Separation over NA/NCRR Railroad and closure at Grade Crossing N.724408Y in Kannapolis	November 2022	December 2026		12.45 M	TBD	NCDOT Kumar Trivedi 919-707-4109	ROW has been Acquired. Utility Relocations being performed. Date of Availability May 2023.
	P-5725	Kannapolis Train Station Second Platform and Pedestrian Overpass	July 2023	TBD		10.1 M	TBD	NCDOT Brad Smythe 919-707-4118	Utility Relocations being performed. Pending Railroad Construction Agreement Completion.

I-85 PROJECT

PROJECTS UNDER DEVELOPMENT

I-85	I-3802AA	I-85 Installation of Fiber Optic Communications Network, CCTB and DMS System for I-3802A project	February 2023	October 2024		2.1 M	TBD	NCDOT Lee Neal 919-814-4965	Project to be advertised for LET in the first quarter if 2023.
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URBAN PROJECTS

ACTIVE CONSTRUCTION PROJECTS

URBAN	U-3440	NC 3 Kannapolis. U-2009 (Westside Bypass)-TO-SR 1691 (Loop Road). Widen existing route to multi-lane facility	November 2016	June 2023	93% Complete	34.1 M	JT Russell	NCDOT Jon Hinson 980-523-0085	Project under construction. The mainline is open to thru traffic. Final surfacing work projected for this Spring. Estimated project completion is Summer 2023.
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PROJECTS UNDER DEVELOPMENT

URBAN	U-5761	NC 3 (Dale Earnhardt Blvd.) Kannapolis Improve Intersection of NC 3 and US 29/601	R/W-2022 LET 2024	2027 PROJECTED	90% Plans R/W 60%	10.9 M	RS&H	NCDOT Donald Griffith 704-983-4418	ROW Acquisition in progress.
	U-6032	Mallard Creek Road (SR-2467)/ Derita Rd (SR-1445) from I-485 to Concord Mills Blvd. Widen to 6 lanes	R/W-2022 LET 2025	2027 PROJECTED	75% Plans	25 M	KCI	NCDOT Donald Griffith 704-983-4418	ACTIVE PROJECT. Currently in Design. PE work continuing. ROW Acquisition in progress.

TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
J E C T S U-5956	US 29 Concord. Realign Union Cemetery Road to Intersect US 29 at Rock Hill Church Road	R/W-2022 LET 2025	2027 PROJECTED	75% Plans	8.1 M	Kimley-Horn	NCDOT Randy Bowers 704-983-4400	ROW Acquisition in progress.
U-3415A	SR 1394 Poplar Tent Rd. Concord Derita Road to George Liles Pkwy. Widen to 4 lane divided	R/W-2024 LET-2027	2029 PROJECTED	15 % Plans	20.5 M	TBD	NCDOT Travis Preslar 704-983-4400	PROJECT IS REACTIVATED and moving forward. Working toward 25% plans.
U-6029	SR 1394 Poplar Tent Rd. Concord Derita Road to NC 73. Widen to 4 lanes						NCDOT Sean Epperson 704-983-4400	PROJECT NOT FUNDED

CONGESTION PROJECTS

HIGHWAY SAFETY PROJECTS

ACTIVE CONSTRUCTION PROJECTS

S A W-5601HQ 47858	NC 3 Concord and Odell School Road Install a Roundabout	June 2022	November 2022	99% Complete	1.24 M	NJR Group	NCDOT Chris Fine 704-983-4380	Construction 99% complete. The facility was opened to traffic on 10/29/22. Currently in final closeout.
W-5710C	SR 2180 (Lane St. & Jackson Park Road) Kannapolis US Main Sreet to West of I-85 ramp in Kannapolis. Road Diet	September 2021	August 2022 (Awaiting Signal)	70% Complete	2.69 M	NJR Group	NCDOT Chris Fine 704-983-4380	Project complete with exception of new signal at Ruth Ave. Due to material shortages, signal will not be active until early Spring 2023.

PROJECTS UNDER DEVELOPMENT

F E 47866/ SS-4910CK	Poplar Tent Rd. at Rock Hill Church Road & Eva Drive Concord Intersection improvements	February 2023	TBD	100% ROW	1.1 M	TBD	NCDOT Donald Harward 704-983-4400	Project Approved to move forward. High Impact/Low Cost. Currently moving utilities.
W-5710AO	Salisbury-Concord Road/ Old Concord Rd. Kannapolis to Irish Potato Road. Install Roundabout	May 2023	TBD	75% ROW	1.15 M	TBD	NCDOT Donald Harward 704-983-4400	Project Approved to move forward. ROW Acquisition in progress. Duke relocation working to confirm schedule.

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
T Y	HS-2010D	NC 24/27 and Bethel School Road Half RCI	Summer 2024	TBD		392 K	TBD	NCDOT Donald Harward 704-983-4400	Project Currently in Design.
	HS-2010F	NC 24/27 and Pine Bluff/Reed Mine Road RCI	February 2025	TBD		750 K	TBD	NCDOT Donald Harward 704-983-4400	Project Currently in Survey.
	HS-2010H	NC 49 and Zion Church Road RCI	May 2025	TBD		1.95 M	TBD	NCDOT Donald Harward 704-983-4400	Project Currently in Survey.

BRIDGE PROJECTS

ACTIVE CONSTRUCTION PROJECTS

B R I D G E	B-5810	Bridge 120022 /NC24-27. Locust, NC. Replace bridge over Rocky River	August 2022	July 2024	5% Complete	6.1 M	Dane Construction	NCDOT Chris Fine 704-983-4380	East bound traffic has been shifted to the west bound side. Demolition of old bridge is underway. Completion will be Spring of 2024.
	B-5375	Bridge120 137 / SR 1132 (Miami Church Road) Mt. Pleasant over Dutch Buffalo Creek	July 2022	May 2023	0% Complete	1.2 M	NJR Group	NCDOT Chris Fine 704-983-4380	Construction Start Date: First Quarter of 2023. Currently under development.
	BP10.R020.3	Bridge 120101 / SR 2453 (S Lentz Harness Shop Road) over Little Bear Creek	March 2022	December 2022	99% Complete	585 K	APAC Atlantic	NCDOT Chris Fine 704-983-4380	Final inspection passed in October 2022 and facility was opened to the public on the same day. Permanent vegetation established by Spring '23.
	B-5813	Bridge 120132 / NC 73 over Dutch Buffalo Creek	January 2022	August 2023	20 % Complete	4.3 M	NJR Group	NCDOT Chris Fine 704-983-4380	Construction began in March 2022. Work was delayed due to lack of available ductile iron pipe. Construction is progressing.
	17BP.10.R.144	Bridge 120053 / SR 2114 (Centergrove Road) Kannapolis over Cold Water Creek	April 2021	April 2022	99% Complete	1.7 M	Dane Construction	NCDOT Jon Hinson 704-983-4380	Project is complete and open to trafic. Preparing final estimate/closeouts.

PROJECTS UNDER DEVELOPMENT

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
G	B-5808	Bridge 120057 & 120059 (US 29/601) over Irish Dutch Buffalo Creek near Poplar Tent Road	April 2023	May 2025		5.1 M	TBD	NCDOT Garland Haywood 704-983-4400	Currently Developing ROW Plans for use in acquiring construction limits and relocating existing utility conflicts.
	B-5372	Bridge 120109 / SR 1706 Kannapolis Bridge on (East First Street) over US 29	FALL 2023	May 2024		5.8 M	TBD	NCDOT Garland Haywood 704-983-4400	Currently in Design & ROW Acquisition is in progress.
E	BP10.C002	Pipe 120247 St. Stephens Road / Mt. Pleasant Replace Pipes over Butcher Branch	Fall 2023	Spring 2024		600 K	TBD	NCDOT Garland Haywood 704-983-4400	Currently in Design & ROW Acquisition.
	17BP.10.R.110	Bridge 120105 / E. Gold Hill Road Mt. Pleasant Replace bridge over branch of Big Bear Creek	Spring 2023	Spring 2024		895 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
	BP10.R010	Bridge 120245 / SR 1309 (Stough Road) over Wolf Meadow Creek	Spring 2024	Spring 2026		2.5 M	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. Availability date estimated March 2025 due to: Dutcile Iron Material shortages w/ pipe.
P	BP10.R015	Bridge 120129 / SR 2635. (Old Airport Road) Concord over Cold Water Creek	Spring 2024	Winter 2025		1.3 M	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. Availability date estimated March 2025 due to: Dutcile Iron Material shortages w/ pipe.
R	BP10.R034	Bridge 120073 / SR 2416 (Mt Olive Road) Mt. Pleasant over Branch of Dutch Buffalo Creek	Fall 2024	Fall 2025		750 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
O	BP10.C010	Bridge 120301 / SR 2608 (Hahn Road) over Little Bear Creek	Fall 2024	Spring 2025		\$800K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
J	BP10.R047	Bridge 120083 / SR 2408 (Gold Hill Road) over Dutch Buffalo Creek	Spring 2025	Winter 2025		900 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
E									
C									

TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS	
T S	BP10.R055	Bridge 120292 / Mauney Road Mt. Pleasant Replace bridge over Little Meadow Creek	Fall 2025	Spring 2026		750 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
	BP10.C003	Bridge 120050 / SR 2113 (Penninger Road) over Br. Of Cold Water Creek	Fall 2027	Fall 2028		\$870K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
	BP10.R019	Bridge 120173 / SR 1169 (Peach Orchard Road) Harrisburg over McKee Creek	LET Date beyond 2026. Currently not established	TBD		500 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.
	BP10.C001	Bridge 120219 / SR 2710 (Walker Road) Concord over Adams Creek	LET Date beyond 2026. Currently not established	TBD		450 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.
	BP10.R031	Bridge 210 / SR 1006 (Mt Pleasant Road) Mt. Pleasant over Bost Creek	LET Date beyond 2026. Currently not established	TBD		550 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.

MUNICIPAL PROJECTS

ACTIVE CONSTRUCTION PROJECTS

M U N I C	U-6098/47706	(PHASE II) Cabarrus County -Various; Left turn lane at NC 73 and SR 1430 // Turn lanes at access rd. NC 73 // RAB SR 1620 & SR 1621 // Extend storage I-85 ramps	Spring 2023 PROJECTED	Spring 2024	30% Complete*	2.7 M	TBD	City of Kannapolis NCDOT Marc Morgan 704-983-4400	Phase I is completed. *A small section of Phase II was completed during the construction of Phase I. Waiting on Kannapolis to finalize plans, ROW and construct per agreement for Phase II. Anticipated completion Date: June 2024.
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PROJECTS UNDER DEVELOPMENT

I P A	SS-6010AP	NC 3 Branchview Drive and Cabarrus Avenue Crosswalk and Traffic Signal Upgrades	January 2023	March 2023		24 K	Watson Electrical Construction ON CALL	City of Concord NCDOT Zach Gardener 704-983-4400	(CON phase only) Agreement executed 8/16/22. Concord working with contractor to get schedule.
	BL-0043	N Washington St (NC 73 to Park Drive) Sidewalk, C&G, widening, sharrows	October 2023	TBD	Page 62	524 K	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	Printed on 1/16/23

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
L P R O J E C T S	C-5603I	US 601 From Flowe Store Road to Zion Road with US 601 and Flowe Store Road. Sidewalk and intersection improvements	October 2023	TBD	60% Plans	1.5 M	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	ROW Plans (60%) approved on 5/13/22. ROW Auth due on 2/14/23.
	EB-5732	SR 2894 (Concord Mills Blvd.) Concord Construct Sidewalks on Concord Mills Blvd. and portions of Weddington Road from US 29 to SR 1431	R/W 2024 LET 2025	2026	25 % Plans	6 M	HNTB	NCDOT Sean Epperson 704-983-4400	PROJECT IS REACTIVATED and moving forward. Working toward 65% plans.
	C-5603F	Bethpage Road From South Main Street to Leonard Avenue and from Westgreen Drive to Klondale Avenue sidewalk	February 2024	TBD	60% Plans	208 K	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	ROW Plans (60%) were submitted on 7/12/22 and waiting review comments from Raleigh. Project still on schedule.
	EB-5844	Little Texas Road Lane Street to Dale Earnhardt Blvd sidewalk	June 2024	TBD		2.1 M	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	CE approved 6/6/22. ROW plans due 10/29/22. Project still on schedule.
	HL-0001	Poplar Tent Road Improvements (Moss Drive to Fullerton PI Drive)	April 2025	TBD		3.9 M	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	(PE, ROW, CON) Agreement executed 6/23/22. PE funds approved 8/17/22.
	BL-0060	Cox Mill Road Loop Greenway & Bicycle/Ped bridge	August 2025	TBD		1.9 M	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	(CON phase only) LGA has yet to start working on this project.

RURAL PROJECTS

PROJECTS UNDER DEVELOPMENT

R U R A L	R-2246A	George Liles Parkway Concord NC 49 to Roberta Road. Widen to Multi-Lanes	R/W 2028 LET 2030	TBD		16.5 M	TBD	NCDOT Travis Preslar 704-983-4400	PE and Planning activities are scheduled to begin in 2023.
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VARIOUS PROJECTS

ACTIVE CONSTRUCTION PROJECTS

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
V	SS-4910DM 48485.1.1 48485.2.1	Roberta Road & Cochran Road Concord to Brookville Avenue Mini Roundabout Construction	June 2022	September 2022	99% Complete	335 K	Reeves Construction Co.	NCDOT Jon Hinson 980-523-0080	Project is open to traffic & contract is complete. RE is working w/ Traffic Services to enhance RAB advanced notifications.
A	2022CPT.10.1 8.20131 - Contract DJ00406	VARIOUS LOCATIONS - 10 Sections of secondary roads	March 2022	May 2023	0% Complete	1.8 M	JT Russell & Sons Inc	NCDOT Marc Morgan 704-983-4380	Available 6/01/2022 - Not currently planned to start until March, 2023.
R	2022CPT.10.1 0.20132 Contract DJ00401	VARIOUS LOCATIONS - Sections of secondary roads	March 2022	June 2023	0% Complete	961 K	Whitehurst Paving Co.	NCDOT Marc Morgan 704-983-4380	Anticipated start date May 2023.
I	2022CPT.10.0 9.10131 - Contract C204686	VARIOUS LOCATIONS - 1 Section of NC 3 and 39 sections of secondary roads	December 2021	September 2023	20% Complete	5.5 M	NJR Group, Inc.	NCDOT Marc Morgan 704-983-4380	FDR Routes completed.
O	PROJECTS UNDER DEVELOPMENT								
U	R-5790JG 44920.3.15	VARIOUS LOCATIONS - Installation of curb ramps.	2023	TBD		1.5 M	TBD	NCDOT Terry Burleson 704-983-4400	Contract LET, however bids were rejected due to high bid amounts. Contract to be reLET in 2023.
S	SS-6210A 49966	Zion Church Road and Zion Church Road All-way Stop	March 2023	April 2023		121 K	NCDOT	NCDOT Zach Gardner 704-983-4400	Plans being developed for 5 foot widening radii.
	SS-6010AX 49833.3.1	Zion Church Road and Central Heights Drive All-way Stop	March 2023	April 2023		20 K	NCDOT	NCDOT Zach Gardner 704-983-4400	

RESOLUTION OF SUPPORT

WHEREAS, the North Carolina Department of Transportation (NCDOT), Integrated Mobility Division has issued a call for applications for the Paved Trails and Sidewalk Feasibility Study Grant Program; and

WHEREAS, the Town of China Grove in Rowan County seeks to apply for a grant for a proposed China Grove Greenway Feasibility Study, which will assist in the planning and implementation of a greenway project; and

WHEREAS, the Town of China Grove requests the support of the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) in applying for this grant; and

WHEREAS, the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) has consistently supported bicycle and pedestrian planning initiatives by its member jurisdictions, and

WHEREAS, on January 18, 2023 the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) Technical Coordinating Committee (TCC) has voted to recommend endorsement of the Town of China Grove's efforts to apply for this grant.

NOW, THEREFORE, BE IT RESOLVED that the Transportation Advisory Committee (TAC) of the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) supports the Town of China Grove as it applies to the North Carolina Department of Transportation for a Paved Trails and Sidewalk Feasibility Study Grant in order to provide guidance and planning for a potential greenway project.

Adopted this the 25th day of January, 2023.

Chair, Cabarrus-Rowan Transportation Advisory Committee

RESOLUTION OF SUPPORT

WHEREAS, the North Carolina Department of Transportation (NCDOT), Integrated Mobility Division has issued a call for applications for the Paved Trails and Sidewalk Feasibility Study Grant Program; and

WHEREAS, the Carolina Thread Trail seeks to apply for a grant for a proposed Cabarrus-Mecklenburg Greenway Connection Feasibility Study, which will assist in the planning and implementation of a cross-county greenway project that ties to the existing Hector Henry Greenway in Concord; and

WHEREAS, the Carolina Thread Trail requests the support of the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) in applying for this grant; and


WHEREAS, the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) has consistently supported bicycle and pedestrian planning initiatives, and

WHEREAS, on January 18, 2023 the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) Technical Coordinating Committee (TCC) has voted to recommend endorsement of the Carolina Thread Trail's efforts to apply for this grant.

NOW, THEREFORE, BE IT RESOLVED that the Transportation Advisory Committee (TAC) of the Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) supports the Carolina Thread Trail as it applies to the North Carolina Department of Transportation for a Paved Trails and Sidewalk Feasibility Study Grant in order to provide guidance and planning for a potential cross-county greenway project.

Adopted this the 25th day of January, 2023.

Chair, Cabarrus-Rowan Transportation Advisory Committee



2020 Census NPRM Proposed Urban Area Criteria

Qualifying Urbanized Area Boundaries

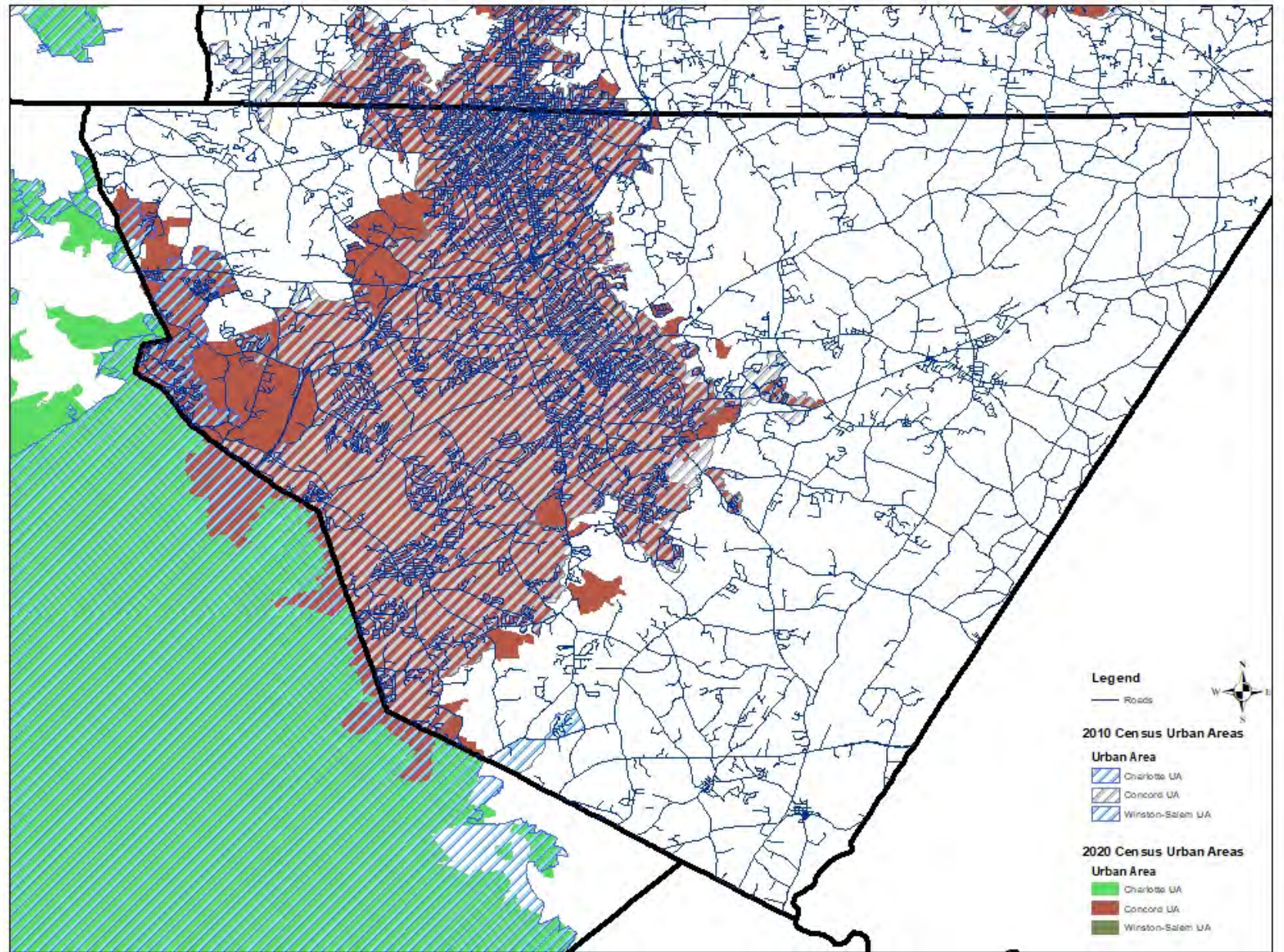
- Increase Minimum threshold for Urban Areas
 - 4,000 housing units
 - 385 units/sq. mile/census block
 - 10,000 person minimum population threshold
 - 2,500 FOR 2000/2020 Census
 - This is based on 2.6 persons per household
 - 10,000 population threshold is used by other Federal agencies

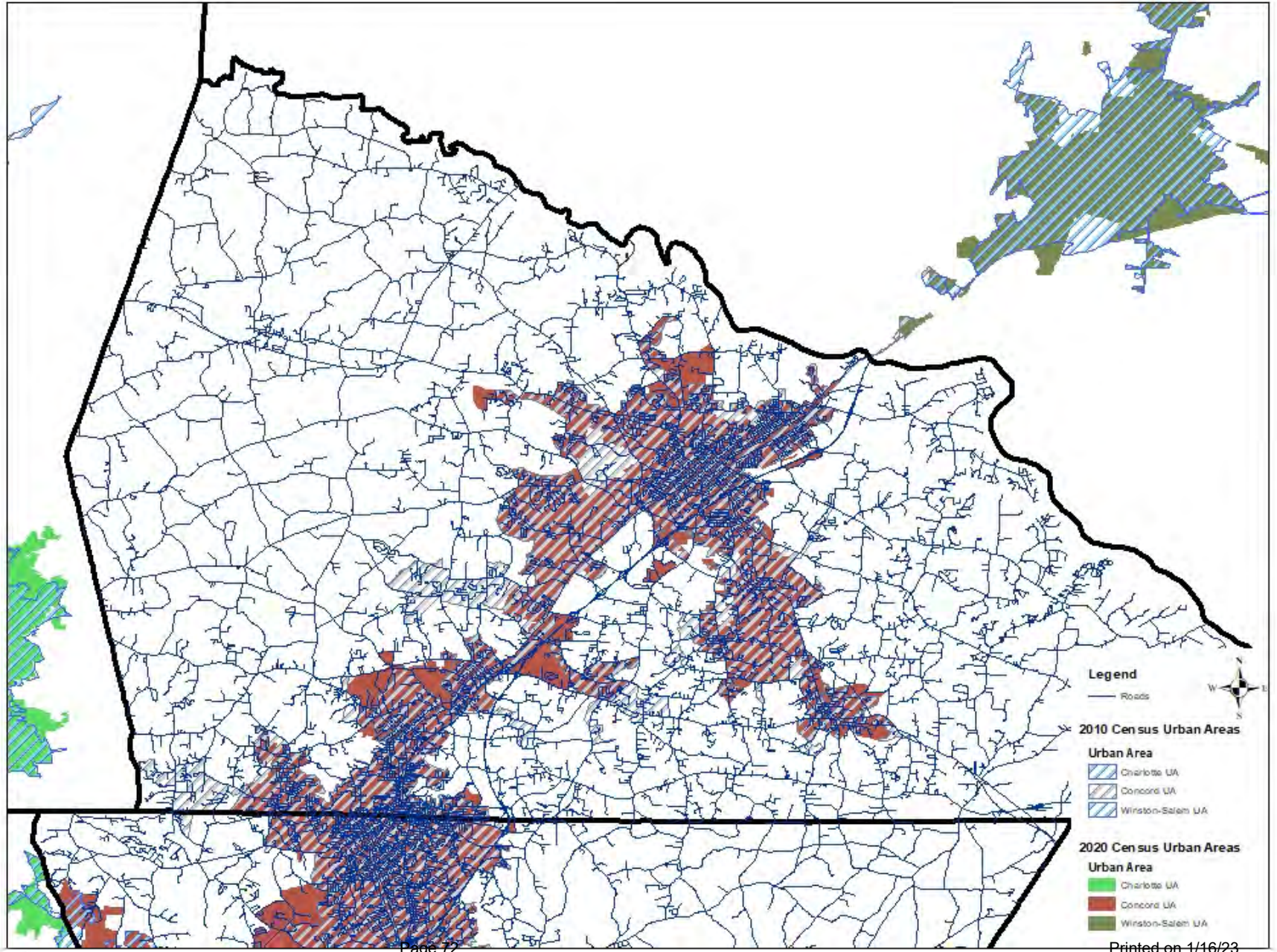
Hops, Skips and Jumps

- Reducing the maximum jump distance to 1.5 miles
 - In 2000/2010 it was 2.5 miles
- No longer considering the hop/jump along corridors
 - This should reduce the areas being separated by waterbodies or wetlands
 - This reduction could reduce the urban area boundaries,
 - Area could be seen as being double counted – impervious surface criteria

Agglomerations

- Step 1 –
 - Compare the 2020 data collected to the 2010 decisions
 - Measure the commuter flows into and out of the urban areas
 - Analyze the splits
- Step 2 –
 - Apply the LEHD data and perform Leiden algorithm
 - It is used To gain objective data
 - It is a block level analysis of commuter flows
 - Based on the results either
 - Split boundaries, or
 - Merge boundaries







CRP PROJECT APPLICATION

FOR NCDOT USE ONLY	
APP ID	STIP ID

IN ORDER TO BE CONSIDERED A COMPLETE APPLICATION PACKAGE, ALL FIELDS MUST BE APPROPRIATELY COMPLETED & REQUIRED ADDITIONAL INFORMATION AS NOTED MUST BE ATTACHED. INCOMPLETE APPLICATIONS WILL BE RETURNED. PLEASE ONLY FILL OUT THE SECTIONS THAT PERTAIN TO THE PHASE YOU ARE CURRENTLY IN.

1 RPO/MPO/NCDOT Unit NAME(S)

--

2 TOWN & COUNTY NAME

--

3 PROJECT SPONSOR INFORMATION

Organization	
Contact Name	
Contact Title	
Address	
Telephone	
E-Mail	

4 PROJECT INFORMATION

Include location of the project in the description box below, such as road name, address.

Title			
Description			

Existing STIP?		If yes, STIP ID?		Population of the Area Being Served	
----------------	--	------------------	--	-------------------------------------	--

Include project details, proposed improvements, purpose, need, how it will provide service, who are the primary stakeholders & where it will operate & serve. Attach a sketch design plan of the proposed project which shows the general location.

PROJECT COSTS & DELIVERY SCHEDULE

5 APPLICABLE PROJECT PHASES, FUNDING & YEARS

Input information **ONLY** for the phase for which you are requesting funds.

- CRP projects are awarded by State Fiscal Years (FY). FY runs from July 1st of the previous year to June 30th of the current year. For example, FY 2023 is from July 1, 2022, through June 30, 2023.
- Cost estimates should include contingency fee, NCDOT admin fee, and inflation cost (as applicable).
- Minimum 20% match is required for all projects.
- Minimum amount of \$100,000 required.
- Project sponsor is responsible for any overage amount.

Check box if this project is not typical 80/20 split. The minimum split is 80/20.

Check box if this project is eligible for state match.

Phases(s)	CRP Amount	Matching Amount	Total	FY
Planning, Engineering & Design				
Right-of-Way				
Construction				
Operation				

	Transit Implementation				
	Non-transit Implementation				
	Other:				

Project Total

6 LIST THE SOURCE(S) OF MATCHING FUNDS

--

GENERAL PROJECT INFORMATION

7 SELECT CRP-ELIGIBLE IMPROVEMENT TYPE (check all that apply):

Alternative Fuels	Transit Improvements
Freight/Intermodal	Congestion Relief & Traffic Flow Improvements
Bicycle/Pedestrian Facilities & Programs	Transportation Control Measures
Intelligent Transportation Systems	Diesel Engine Retrofits
Carbon Reduction Strategy Development	Travel Demand Management
Micro-mobility	Electronic Toll Collection
Carpooling & Vanpooling	Truck Stop Electrification System
Port Electrification	Energy Efficiency Improvements
Congestion Management Technologies	Other

If "Other" please describe:

8 IF TRANSIT IMPROVEMENT, SPECIFY HOW SERVICE WILL BE IMPROVED

New facilities associated with a service increase	New vehicles used to expand the transit fleet
Operating assistance for new service (limit three years)	Fare subsidies

9 EMISSIONS REDUCTION CRITERIA

Only fill out the information that applies to your project. For more information about this section, view the [CMAQ Emissions Calculator Toolkit](#).

Alternative Fuel Vehicles & Infrastructure

Annual Vehicle Miles Traveled (VMT)	
Number of Vehicles	
What type of vehicle(s) are you replacing?	
Odometer reading of the vehicle you are replacing	
Model year of vehicle(s) are you replacing?	
What conventional fuel are you replacing?	GASOLINE DIESEL FUEL
What is the model year of the alternative fuel vehicle(s) to be purchased?	
What alternative fuel will your new vehicle(s) use?	
Annual number of charging stations	
Number of ports per charging station	
Kilowatt hours	

Bicycle & Pedestrian Improvements

Current roadway annual average daily traffic (AADT)	
Length of proposed facility and map	

Carpooling & Vanpooling

Which program is being evaluated?	CARPOOL VANPOOL
Are the pick-up drop off locations centralized?	YES NO
What is the average distance participants drive to the central locations? (Roundtrip Miles)	

What is the population of commuting workers?				
What is the number of vehicles participating in the pooling program?				
On average, how many passengers are there per carpool/vanpool vehicle? (Driver not included)				
What is the average commute distance? (Roundtrip Miles)				
What vehicle type is used in the vanpool?				
	MINI VAN		VAN (8,500<GVW<10,000 LB)	VAN (10,000<GVW<14,000 LB)
What fuel type is used by the vanpool vehicle(s)?				
	GASOLINE		DIESEL FUEL	COMPRESSED NATURAL GAS ELECTRICITY
What is the model year of the vanpool vehicle(s)?				
10 SUBMIT				
1) SAVE APPLICATION AND ALL ATTACHMENTS IN A SINGLE PDF DOCUMENT 2) Submit eligibility form as single PDF document to nbearle-young@ncdot.gov				

	RIDER TRANSIT						RIDER ADA PARATRANSIT					
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
January	32527	28618	35154	32795	19946	13670	727	786	1014	1233	1064	1291
February	33599	30231	32851	31073	23498	20251	755	887	1001	1238	1065	1358
March	34813	32443	35038	25626	36652	23914	932	972	1066	887	1558	1626
April	32820	33153	33822	15732	36209	24336	814	903	1117	550	1555	1474
May	32719	35578	36735	18489	36769	24130	864	1005	1015	687	1464	1542
June	33987	38320	36931	22239	35573	26036	837	893	918	997	1370	1638
July	32776	36564	37265	22975	27155	24640	819	840	956	1065	1305	1476
August	37535	42211	38455	22020	27824	26857	862	995	1041	1191	1233	1740
September	33850	35060	35590	21712	27014	27278	864	895	1076	1231	1286	1553
October	35584	39504	37727	24501	28779	27419	957	1147	1175	1024	1304	1550
November	33804	33695	32930	22073	25692	25003	881	972	1132	959	1424	1731
December	32746	30639	32848	19994	24882	24418	885	781	1049	1044	1463	1651
Totals	371176	416016	425346	279229	349,993	287,952	10197	11076	12560	12106	16091	18630

	SALISBURY TRANSIT SYSTEM						SALISBURY ADA PARATRANSIT					
	2017	2018	2019	2020	2021	2022		2018	2019	2020	2021	2022
January	12497	10192	11588	10836	4631				669	662	605	
February	12872	11786	10819	10426	4495				664	587	553	
March	12973	11945	10813	8444	5069				621	641	711	
April	12144	12075	11383	4344	5058				629	442	737	
May	12871	12139	15528	4230	4698				754	505	673	
June	10964	11581	10983	5406	5225				698	618	762	
July	10777	11581	12228	5987	6240			706	855	605	680	
August	15964	13855	13186	5505	6527			739	854	495	682	
September	13978	11689	11472	5350	6081			532	827	529	659	
October	13214	13304	12645	5758	6087			695	801	590	639	
November	11558	10889	12742	4384	5667			582	644	545	613	
December	11131	9170		5416	7190			492		718	703	
Totals	150943	140206	133387	76086	66968			3746	8016	6937	8017	

NCDOT TPD NEWS



NCDOT TPD Cabarrus–Rowan Metropolitan Planning Organization Newsletter

January 2023

Safe Routes to School Grant Program

The application for the Safe Routes to School grant program for North Carolina communities is now open.

Community organizations have from today until **Feb. 6 to** apply for Safe Routes to School grant funding..

Those eligible to apply for grants include local governments, regional transportation authorities and planning organizations, state agencies, school districts and schools, nonprofit organizations and tribal governments.

Proposals should be designed around a collaborative program that works to reduce the number of bicycle and pedestrian injuries and fatalities, and promotes safety through education, encouragement and evaluation.

Visit this website to submit the [2023 Safe Routes to School - Non-Infrastructure - Project Application \(Safe Routes To School- Non-infrastructure Project Application - 2023 \(smartsheet.com\)\)](#):

Additional information and program guidelines can be found at this [NCDOT Connect website](#). ([Safe Routes to School \(SRTS\) Non-Infrastructure Program \(ncdot.gov\)](#)).

NC Transportation Summit

Each year, the *N.C. Transportation Summit* brings transportation industry leaders and policymakers together to explore various topics. The N.C. Department of Transportation, in partnership with NC GO!, will host the fourth annual N.C. Transportation Summit, Wednesday and Thursday, Jan. 18-19, 2023, at the Raleigh Convention Center. Registration is open: [HOME - 2023 N.C. Transportation Summit \(nctransportationsummit.com\)](#)

NCDOT Bicycle Helmet 2023 Initiative

To encourage more children to wear helmets, the N.C. Department of Transportation's annual **Bicycle Helmet Initiative** will give free protective headwear to organizations across the state to distribute to youth cyclists.

To apply, please find instructions/guidelines at NCDOT's [Bicycle Helmet Initiative webpage](#). Applicants may request 25, 50, 75, or 100 helmets, and awardees will receive the helmets in the Spring.

Organizations can [apply](#) online with NCDOT's Integrated Mobility Division. **The deadline for applications is Feb. 3.**

<https://connect.ncdot.gov/projects/BikePed/Pages/Bicycle-Helmet-Initiative.aspx>

“Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina....”

- NCDOT Mission Statement

Traffic Forecasts (TF)

Project Level Traffic Forecasting is an essential part of the planning process. The traffic forecast informs the design of STIP projects. See ongoing forecasts below:

- R-2632AB, R-5706: Cabarrus/ Mecklenburg, NC 73 from Davidson-Concord to US 29
- R-2246A: Cabarrus Concord George Liles
- U-5901: Rowan Salisbury Airport Parkway
- BR-0015: Davidson I-85 BUS
- H118157 H190946: Rowan I-85 McCanless Int

Please [click here](#) for ongoing and recent forecasts.



Printed on: 1/16/23

NCDOT Earns Grant to Expand Access to On-Demand Transit for Thousands of North Carolinians

A new federal grant award of \$10.4 million will help expand on-demand transit services for up to 11 North Carolina communities and benefit thousands of North Carolina citizens. The award comes to the N.C. Department of Transportation's Integrated Mobility Division from the U.S. Department of Transportation's [Rural Surface Transportation Grant](#), ([Biden-Harris Administration Announces Nearly \\$274 Million in Funding for 12 Projects to Improve and Expand Transportation Infrastructure in Rural Areas | US Department of Transportation](#)) which is part of the Bipartisan Infrastructure Law.

The money will be distributed to expand on-demand transit services for people in Alamance, McDowell, Johnston, Randolph, and Rockingham counties, as well as Sanford, Salisbury and Wilson. Other regional community organizations that will benefit are: Kerr Area Regional Transit, Tar River Transit and Wave Transit in Wilmington.

The funding will pay for advanced transit scheduling software deployment and, in some communities, third-party contracts for vehicles and drivers to support the new on-demand services.

The Integrated Mobility Division applied for the funds to expand on-demand transit, in part, because of the success of prior on-demand transit deployments in North Carolina, including the Wilson RIDE service. That service has garnered national attention for its success and positive impacts.

NC Clean Transportation Plan

In January 2022, Gov. Roy Cooper signed Executive Order 245. This executive order builds upon 2018's [Executive Order 80](#), which established a goal to reduce greenhouse gas emissions by 40 percent and increase zero-emission vehicle (ZEV) adoption to 80,000 vehicles by 2025.

As part of EO 246, the N.C. Department of Transportation is tasked with developing a Clean Transportation Plan (NCCTP) within 15 months of the order. The NCCTP will recommend actionable strategies for decarbonizing the transportation sector and shall address:

1. Availability, sales and usage of zero-emission vehicles to levels beyond current market projections, including a focus on medium- and heavy-duty ZEVs.
- 2.Reductions in vehicle miles traveled.
- 3.Investment in clean transportation infrastructure.
- 4.Equitable access to clean mobility options.
- 5.Increased availability of non-vehicle transportation modes.
- 6.A transition to zero- and low-emission fuels.
- 7.Other relevant topics.

Three public information sessions have been held. A video of the latest session held on December 20, 2022 can be found at <https://youtu.be/viEGF5yXcvM>.

NC Traffic Safety Grant Application Period

The N.C. Governor's Highway Safety Program is accepting grant applications to fund programs aimed at preventing traffic deaths and injuries on North Carolina roads.

Applications will be accepted from Jan. 1-31.

Grants are open to non-profit organizations, local and state law enforcement, hospitals, state agencies and other groups proposing data-driven measures that advance traffic safety.

Grants awarded will be for the 2024 federal fiscal year from Oct. 1, 2023-Sept. 30, 2024.

A list of [federal fiscal year 2023 grants](https://www.ncdot.gov/initiatives-policies/safety/ghsp/Documents/community-grants.pdf) (<https://www.ncdot.gov/initiatives-policies/safety/ghsp/Documents/community-grants.pdf>) is available online. Organizations interested in applying for a NCGHSP grant can learn more about the application process online via the [Connect NCDOT Website](#). Interested applicants may also call 919-814-3650 with questions.

Contact Us

Roger Castillo

NCDOT TPD

1 S. Wilmington Street
Raleigh, NC 27601

(919) 707-0942

ricastillo@ncdot.gov

Visit us on the web at
www.ncdot.gov

Upcoming	Date
2nd Quarter 5303 Claim (Oct 1, 2022 to Dec. 31, 2022) due	January 30, 2023
2nd Quarter invoice and work summary due	February 10, 2023
Draft FY24 UPWP due; also Indirect Cost Allocation Plan for FY24 due	February 28, 2023

NCDOT Statewide Plans:

To learn more, click on the following links:

- [NC Moves 2050 Plan](#) (or go to ncdot.gov/ncmoves)
- [NCDOT Strategic Transportation Corridors](#) (or go to ncdot.gov and search: Strategic Transportation Corridors)
- [NCDOT Comprehensive State Rail Plan \(25-Year Vision\)](#) (or go to ncdot.gov and search: rail plan)
- [NC Statewide Multimodal Freight Plan \(2015-2040\)](#) (or go to ncdot.gov and search: public transportation plan) - An update is currently underway
- [Great Trails State Plan](#) (or go to ncdot.gov and search: Great Trails)
- [Connecting North Carolinians to Opportunities \(Public Transportation strategic Plan—2018\)](#) (or go to ncdot.gov and search: public transportation plan)
- [NCDOT Resilience Strategy Report \(2021\)](#) (or go to ncdot.gov and search: resilience strategy report)
- [Statewide Pedestrian & Bicycle Plan \(2013\)](#) (or go to ncdot.gov/biceped/walkbikenc)

Other Plans:

- [N.C. Climate Risk Assessment and Resilience Plan by Department of Environmental Quality](#) (or search: 2020-Climate-Risk-Assessment-and-Resilience-Plan.pdf)
- [NC FIRST Commission](#) (or go to ncdot.gov and search: First Commission)

Helpful Links:

Click on links below to learn more:

- NCDOT home page—ncdot.gov
- Real-Time Traffic—DriveNC.gov | [North Carolina Traffic & Travel Information](#)
- Report a pothole—[NCDOT Contact Us Form](#)
- NCDOT: State Transportation Improvement Program - ncdot.gov/sti
- Interactive Bicycle Routes Map—<https://www.ncdot.gov/bikeped/ncbikeways/default.aspx>
- Links to all traffic count data information - [Traffic Survey Group \(ncdot.gov\)](#)
- NCDOT Interactive Traffic Volume Map—[Traffic Volume Maps \(ncdot.gov\)](#)
- Traffic Safety Data & Engineering—[NCDOT: Traffic Safety Data & Engineering](#)

CRAFT Technical Committee
Meeting Notes
September 27, 2022
Hosted by CRTPO
Charlotte-Mecklenburg Government Center

Attendees: Curtis Bridges (CRTPO), Juan Garcia (Gaston County), Agustin Rodriguez (CRTPO), Brett Canipe (NCDOT), Kendall Clanton, (CRTPO), Julio Paredes (GCLMPO), Dominique Boyd (NCDOT), Andy Bailey (NCDOT), Alex Riemondy (CDOT/MRM), Lee Snuggs (RRRPO), Phil Conrad (CRMPO), Arthur Cashwell (GCLMPO), Roger Castillo (NCDOT), Torrey Williams (CDOT/MRM), Theo Thomson (CRTPO), Loretta Barren (FHWA), Judy Dellert-O'Keef (CRTPO), Brian Elgort (CRTPO), Travis Johnson (CRTPO), Robert Cook (CRTPO), Andy Grzymiski (CDOT), Anna Gallup (CDOT/MRM), Brian Horton (CATS), Jennifer Stafford (CRTPO), Stephen Allen (Catawba COG), Jerrel Leonard (CRTPO), Jason Wager (Centralina), Johanna Quinn (CDOT), Temekia Dae (CRTPO), Jason Lawrence (CATS)

1. **Welcome & Introduction:** Mr. Cook opened the meeting at 10:00 AM. Attendees in the CMGC introduced themselves. Remote participants announced their attendance via the chat box. Mr. Cook noted that he had been contacted by Loretta Barren of the FHWA about the proposed greenhouse gas rule. He asked if the group was agreeable to it being added to the agenda. No one opposed and it was added as part of agenda item #4, Transportation Performance Management.
2. **July Planning Meeting Minutes/Planning Worksheet Review:** No comments on the July minutes or the worksheet. Phil Conrad made a motion to approve the July minutes and to approve the content of the FY 2022-2023 planning worksheet. Mr. Cook seconded the motion. The motion was approved unanimously.
3. **CONNECT Beyond Update:** Jason Wager of Centralina Regional Council provided an update on the CONNECT Beyond regional mobility initiative. The purpose of the presentation was to provide the committee with an update on recent activities and to forecast activities for the remainder of the fiscal year and into FY 2024. All NC TPOs have formally recognized the plan. Current implementation highlights included 1) the formation of the Advancing the Plan Committee which will focus on funding opportunities and partnership structures as well as a legislative strategy for a unified regional voice, and 2) progress on a regional TDM program that is being done in cooperation with NCDOT-Integrated Mobility Division and will get underway during the current fiscal year and will continue into FY 2024. An RFQ for a regional scheduling and operations coordination study will be issued in the coming months.

Mr. Wager highlighted current and upcoming activities. FY 2023: TDM activities with possibly 6-8 meetings; formation of Service Planning Group with possibly 3-4 meetings;

RFQ for implementation consultant. FY 2024: TDM plan/program development – Advisory Board participation; Regional Scheduling and Operations Coordination Study – Service Planning Group.

- 4. Transportation Performance Management:** PM3 targets: The discussion focused on recent effort concerning PM3 targets and the need to establish new targets for annual hours of peak hour excessive delay per capita and percent non-SOV travel. Earlier in the year the region’s MPOs agreed to stick with the current targets established in 2018. All MPOs reported that they had either acted on endorsing the targets or are progressing toward doing so.

2023 safety targets: SCDOT provided 2023 state targets to RFATS but the NC MPOs reported that they had not received information from NCDOT.

Notice of Proposed Rulemaking-greenhouse gas emission reduction: The discussion involved whether or not the Technical Committee wished to submit comments to the docket about the proposed rule concerning greenhouse gas emissions. The Technical Committee decided to not submit comments.

- 5. CAV Task Force:** Mr. Wager stated that the CAV Task Force reconvened in person May 9, 2022, following a Covid hiatus. WSP, through CRTPO support, conducted a workshop and brought in technical experts to facilitate the meeting that focused on refreshing the 2018 CAV Roadmap. WSP provided a draft of a refreshed Roadmap which was reviewed by Mr. Cook, Anna Gallup, and Luke Lowry of Centralina. The thrust of the comments was that more specifics are needed, for example, what does the Task Force need to do next and what from the current Roadmap no longer applies. Comments were to be sent to WSP staff shortly after the Technical Committee.

Ms. Gallup noted that part of the current Roadmap is how CAVs are addressed in modeling and forecasting. ITRE is leading an effort called Guidance on Considering CAVS in Travel Models. It will be a two-year process and will dovetail into what the Task Force does. Mr. Cook noted that both the CONNECT Beyond and Beyond 77 initiatives had a strong technology focus.

- 6. TIP/Project Prioritization:** The NC TPOs did not raise any major TIP-related issues. GCLMPO noted some recent amendments and CRTPO mentioned a project swap involving Independence Boulevard. David Hooper stated that SCDOT is moving from looking at specific projects to considering corridors in the TIP development process.

- 7. Project Coordination:** Mr. Hooper stated that the SC infrastructure bank awarded funding for a rebuild of the I-77/Carowinds Boulevard interchange. Mr. Wager mentioned that the required National Electric Vehicle Infrastructure Formula Program plan for NC was submitted. Initial deployment of fast charging stations will take place on

federally designated EV corridors. Loretta Barren added that the NC plan was approved by the FHWA.

8. **ITS/TIMS Strategic Action Plan:** No significant activity on this topic was reported.
9. **Next Meeting:** The next meeting was scheduled for November 22 but due to its proximity to Thanksgiving it was decided to move the meeting to Tuesday, December 6. Rocky River RPO will host a hybrid meeting. The in-person component will be held at Locust Town Hall.
8. **Adjournment:** The meeting was then adjourned at 11:35 AM.

DRAFT