

Submitted By: Transportation & Public Works
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Project Type: Streets/Roads/Bridges related projects - Transportation & Public Works Department
General Program Goal: Economic Prosperity

Previously Submitted and Rejected: No
Continuation Project: Yes - SPLOST 2011, Project 26

Project Total Cost: \$ 10,755,000 **Total Annual Operating Cost: \$ 1,000**

Abbreviated Project Description: This project provides funding for safety improvements at the following intersections: Tallassee Rd/Oglethorpe Ave and Mitchell Bridge Rd/Loop 10/Forest Heights Interchange; Old Epps Bridge Rd and Hawthorne Ave; Baxter St and Alps Rd; North Ave and MLK Jr. Pkwy; West Lake Dr and S. Lumpkin Street.

Project Location/Address: Various

Is the Site currently owned by the Unified Government of Athens-Clarke County? Yes

Is the Site within State Highway Rights-of-Way? Unsure

Site Specific Information: Various public intersections within ACC.

*Some intersections may be within State Highway Rights-of-Way.

Does this Project require the acquisition of any land rights, whether existing sites, new site, easements, or Rights-of-Way? Unsure

Project/Program Description: The Intersection Improvement Program includes construction of safety and operational improvements at critical intersections throughout Athens-Clarke County.

Project Mission Statement/Selection Criteria: Intersections are the primary contributor to both crashes and congestion on the transportation network. Improved intersections benefits users of all transportation modes: car users, bicyclists, pedestrians, freight operators, and transit riders. Weighted heavily on safety improvements, the Intersection Improvement Program presented to M&C identified critical intersections in need of improvements. Each will be considered for a roundabout as well as Complete Streets improvements. Beyond the final tiers of the 2011 SPLOST Program, there are no other eligible sources of local funding for this program. The presented funding level is expected to deliver the next 3 to 5 highest rated intersection improvement projects. The current prioritized program lists the following intersections as the most likely candidates for funding:

- Tallassee Rd/Oglethorpe Ave @ Mitchell Bridge Rd/Loop 10/Forest Heights Interchange (Phase 2)
- Old Epps Bridge Rd @ Hawthorne Ave
- Baxter St @ Alps Rd
- North Ave @ MLK Jr. Pkwy
- West Lake Dr @ S. Lumpkin St

How is this Project recommended/included in any approved ACCGov Land Use Plan, Master Plan, Corridor Study, or Service Delivery Plan? This program is a continuation of the M&C-approved Intersection Improvement Program, created in 2018 in coordination with MACORTS.

How is this Project included in the Madison Athens-Clarke County Oconee Regional Transportation Study (MACORTS) long-range Transportation Improvement Plan (TIP)? This would provide supplemental funding for the existing MACORTS TIP Project titled "ACC Intersection Improvement Program"

PROJECT JUSTIFICATION

How will the Project meet one or more of the Selection Criteria?

Promotes the Goal of improving Equitability of capital improvements throughout the Community:

This program would improve critical intersections based on the Mayor and Commission-approved 2018 Intersection Improvement Program, which produces a data-driven prioritization towards intersection projects. One of the three primary goals stated within this program is to "Improve equitable prioritization of necessary roadway improvements."

Protects the community's existing Transportation Infrastructure Investments: Improved intersections benefits users of all transportation modes: car users, bicyclists, pedestrians, freight operators, and transit riders; improving safety and congestion issues.

Reduces Pavement Maintenance deficit: Intersection projects will include pavement replacement within project limits.

Promotes the Upgrade and Continued Use of Alternative Transportation Facilities: By incorporating Complete Streets aspects into intersection improvements, these projects enhance ACC's pedestrian and bicycle networks, and fill in critical gaps within the Athens in Motion network. Intersection improvements also include upgrades to pedestrian crossing facilities (crosswalks, pedestrian push buttons, etc.)

Maintains or Improves Air Quality: Reduced congestion at intersections will work to improve idling emissions and increase air quality.

Reduces vehicle miles traveled and traffic congestion: Intersection Improvements specifically focus on safety and congestion issues for all modes of transportation. Intersection crashes and congestion lead to drivers being forced to take longer alternative routes. A reduction in intersection crashes will also help to alleviate detour miles traveled in these cases.

Reduces time spent traveling in vehicles: By reducing congestion, intersection improvements subsequently reduce travel time. Additionally, by incorporating Complete Streets aspects into intersection improvements, these projects promote more robust active transportation as an alternative to vehicular travel.

Promotes Health and Safety: Intersection Improvements specifically focus on safety and congestion issues for all modes of transportation. The approved Intersection program does so by using U.S. DOT crash severity index data with Highway Safety Manual data to create normalized crash rates per million vehicle miles for each intersection and combining this with current Level of Service ratings to prioritize critical intersections throughout ACC. The intersections proposed to be funded within TSPLOST 2023 have been identified as those with the worst safety ratings throughout the county.

Continues Sidewalk & Multi-Use Trail construction: By incorporating Complete Streets aspects into intersection improvements, these projects enhance ACC's pedestrian and bicycle networks, and fill in critical gaps within the Athens in Motion network.

Triple Bottom Line Impacts

Positive Benefits for the Economic Prosperity of Athens-Clarke County: Effective transportation systems lead to substantial economic growth (increased trade, better access to goods, services, and employment opportunities, etc.)

Detrimental Impacts to the Economic Prosperity of Athens-Clarke County: N/A

Positive Benefits for the Social Well-Being of our Residents and visitors: Complete streets improvements encourage active transportation within our community. Furthermore, by addressing safety improvements on the worst-rated intersections in ACC, we are creating a safer transportation network for all roadway users

Detrimental Impacts for the Social Well-Being of our Residents and visitors: N/A

Positive Impacts on the Environment: Reduced congestion at intersections will work to improve idling emissions and increase air quality. Stormwater infrastructure and Stormwater permanent BMPs will also be considered during each intersection improvement.

Detrimental Impacts on the Environment: N/A

Positive/Negative Impacts on ACCGov Departments, Agencies, or other Organizations, if not covered in one of the above questions: The general condition and reliability of the road and bridge transportation system has a positive impact on other departments and agencies that utilize this network (emergency services, transit, commercial and public users, etc.)

Project Costs

Detailed project capital budget costs (to be funded from TSPLOST 2023 only):

Project Costs (round to thousand)	Amount
1. Land Acquisition / ROW / Easement:	\$ 665,000
2. Design Fees: (Min.12% of New Const.; 14% of reno,; 16% for LEED proj.)	\$ 878,000
3. Miscellaneous Fees: (Min. Minimum of 3% of Construction Costs – used for permitting, etc. Utilize minimum of 10% if land acquisition if necessary.	\$ 100,000
4. Construction:	\$ 6,650,000
5. Construction Contingency: (10% of the Construction line item)	\$ 665,000
6. Acquisition of Capital Equipment:	\$ -
7. Testing:	\$ 200,000
8. Project Management: (4% of the total budget line items above)	\$ 367,000
9. Project Contingency: (10% of the total budget line items above)	\$ 952,000
10. Public Art: Calculated at 1% of the Construction line item.	\$ 67,000
11. Other 1:	\$
12. Other 2:	\$
Project Subtotal:	\$ 10,544,000
14. Program Management (2% of Project Subtotal):	\$ 211,000
TSPLOST 2023 Project Total:	\$ 10,755,000

Attachments:

[Attachment 1 - Cost Estimate - Full Request](#)

[Attachment 2 - Cost Estimate - Reduced Request](#)

Operating Cost

Total Annual Net Operating Costs when Project is complete:

Only identify additional or net operating costs to be paid by ACCGov as a result of this Project. Identify the additional or net costs needed, above ACCGov's current operating budget, to operate the requested project; as well as any additional Project related revenues that would be generated. Provide budget costs for each identified category below.

Operating Costs (round to thousand)	Estimated Impact for Annual Operating Expenditures
TOTAL PROJECTED REVENUES FROM PROJECT	
PROJECTED EXPENDITURES	
1. Personnel Costs: from Appendix A	
2. Annual Utilities:	
• Natural Gas:	
• Electrical:	
• Water:	
• Sewer:	
• Phone:	
• Solid Waste Collection:	
• Other:	
3. Operating Supplies:	
4. Equipment Maintenance:	
5. Facility Maintenance:	
6. Other: Public art maintenance (minimum)	1,000
7. Other:	
8. Other:	
TOTAL EXPENDITURES	
NET OPERATING COSTS OF PROJECT:	\$ 1,000

Project Financing

Is the proposed Project to receive funding from source(s) other than TSPLOST 2023? Yes

Total Capital Financing for Project:

If the proposed Project is to receive funding other than TSPLOST 2023, provide a listing of amounts from each of the categories listed below. Please round all dollar amounts to the nearest \$1,000.

Project Sources (round to thousand)	Amount
1. TSPLOST 2023 ¹ :	\$ 10,755,000
OTHER SOURCES	
2. ACCGov General Fund:	\$
3. ACCGov Enterprise Fund:	\$
4. State Grant:	\$
5. Federal Grant:	\$
6. Previous SPLOST:	\$ 4,651,000
7. Other (describe):	\$
8. Other (describe):	\$
TOTAL SOURCES:	\$ 15,406,000

¹ If any additional sources of funding other than TSPLOST 2023 are indicated above, please provide information related to the source here. Be specific and be prepared to provide all necessary written approvals. (For example: Roadway projects that have approval for Federal Aid and will utilize TSPLOST 2023 funding for matching funds, you would need to provide specific written approval by GDOT)

Describe the current commitments for the other sources funding this project: The remaining Intersection Improvement SPLOST 2011 funds (\$4,651,000) are presently committed towards the current top three intersections on the prioritized Intersection Improvement list: Oglethorpe Avenue at Hawthorne Avenue, the Chase Street/ Loop 10 interchange, and Mitchell Bridge Rd at Tallassee Road (Phase 1).

Transportation & Public Works Department Conceptual Cost Estimates

Date: Tuesday, July 27, 2021

Project: Intersection Improvement Program - Alt#1

Project Description: Continue capital improvement delivery on the approved intersection improvement matrix and moving forward with concept design followed by engineering design, bid award, and construction on the top 5 worst intersections.

No.	Item	Item Description	Qt.	Unit Cost	Item Total
1	Tallassee Rd - Oglethorpe Ave @ Mitchell Bridge - Loop 10 Ramps - Forest Heights	Phase II of funded project. Major improvements including adding 1 signal or roundabout, turn lanes, signal replacement, and ADA improvements including right-in & right-out with R-Cut.	1 Each	\$ 3,450,000 Each	\$ 3,450,000
2	Old Epps Bridge Rd @ Hawthorne Ave	Major improvements including signal replacement, new ADA ramps, and formalized driveways with limited access to intersection with right-in right-out only.	1 Each	\$ 950,000 Each	\$ 950,000
3	Baxter St @ Alps Rd	Minor improvements including signal head replacement, ADA improvements, and minor utility adjustments	1 Each	\$ 125,000 Each	\$ 125,000
4	North Avenue @ Martin Luther King Jr. Pkwy	Major Improvements including signal replacement, new ADA ramps and access to nearby greenway and multi-use path (panned).	1 Each	\$ 400,000 Each	\$ 400,000
5	West Lake Dr @ S. Lumpkin St	Major Improvement including signal replacement (or roundabout), widening with dedicated turn lanes, and ADA ramps.	1 Each	\$ 1,725,000 Each	\$ 1,725,000

Subtotal - Construction Cost \$ 6,650,000

Additional Items

		<i>Calculated</i>	<i>Rounded to 1,000</i>
1	Construction Contingency	10%	\$ 665,000
2	Engineering & Design	12%	\$ 877,800
3	Right-of-Way & Easements	10%	\$ 665,000
4	Testing	3%	\$ 199,500
5	Project Management	4%	\$ 266,000
6	Project Contingency	10%	\$ 932,400
7	Public Art	1%	\$ 66,500

Total \$ 10,323,000

Estimate Prepared By:

Rani Katreeb, P.E.

ACCGov\TPW\Engineering Administrator

Transportation & Public Works Department

Conceptual Cost Estimates

Date: Tuesday, July 27, 2021

Project: Intersection Improvement Program - Alt#3

Project Description: Continue capital improvement delivery on the approved intersection improvement matrix and moving forward with concept design followed by engineering design, bid award, and construction on the top 3 worst intersections (no roundabout option can be funded for Intersection No.1)

No.	Item	Item Description	Qt.	Unit Cost	Item Total
1	Tallassee Rd - Oglethorpe Ave @ Mitchell Bridge - Loop 10 Ramps - Forest Heights	Phase II of funded project. Major improvements including adding 1 signal or roundabout, turn lanes, signal replacement, and ADA improvements including right-in & right-out with R-Cut.	1 Each	\$ 2,750,000 Each	\$ 2,750,000
2	Old Epps Bridge Rd @ Hawthorne Ave	Major improvements including signal replacement, new ADA ramps, and formalized driveways with limited access to intersection with right-in right-out only.	1 Each	\$ 950,000 Each	\$ 950,000
3	Baxter St @ Alps Rd	Minor improvements including signal head replacement, ADA improvements, and minor utility adjustments	1 Each	\$ 125,000 Each	\$ 125,000

Subtotal - Construction Cost \$ 3,825,000

Additional Items

		<i>Calculated</i>	<i>Rounded to 1,000</i>
1	Construction Contingency	10% \$ 382,500	\$ 383,000
2	Engineering & Design	12% \$ 504,900	\$ 505,000
3	Right-of-Way & Easements	10% \$ 382,500	\$ 383,000
4	Testing	3% \$ 114,750	\$ 115,000
5	Project Management	4% \$ 153,000	\$ 153,000
6	Project Contingency	10% \$ 536,400	\$ 536,000
7	Public Art	1% \$ 38,250	\$ 38,000

Total \$ 5,938,000

Estimate Prepared By:

Rani Katreeb, P.E.

ACCGov\TPW\Engineering Administrator