



Transportation Project Proposal Form

Hello! This is the form for transportation project proposals (Ten Year Plan Projects) to the Lakes Region Planning Commission. If you have any questions about filling out this form, please call Jessica Bighinatti (Assistant Planner) at (603)-279-8171 or Susan Slack at (603)-279-5337; or email us at jbighinatti@lakesrpc.org (<mailto:jbighinatti@lakesrpc.org>) or sslack@lakesrpc.org (<mailto:sslack@lakesrpc.org>).

* Required

Contact Details

1. Full Name: *

2. Best Phone Number: *

3. Email Address: *

4. Municipality: *

5. Organization/Entity: *

6. Position/Title: *

Project Information

7. Title/Name of project: *

8. Project type(s): *

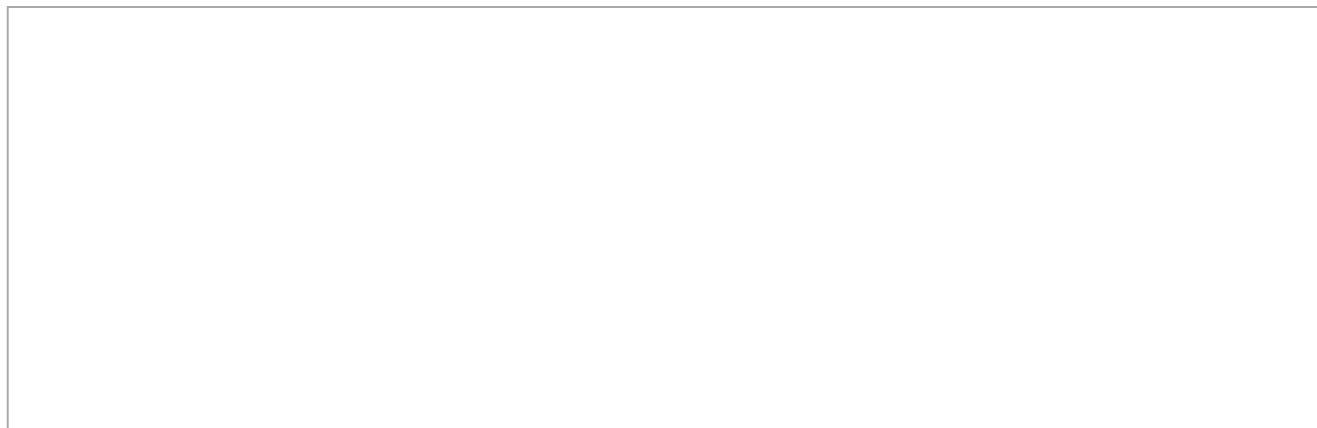
- Highway Improvements (operational improvements, access management, intelligent transportation systems, widening, technology operation improvements)
- Asset Management (bridge rehabilitation, bridge replacement, pavement repair/replacement)
- Bicycle and Pedestrian Improvements (sidewalks, bike trails, multi-use paths, traffic calming improvements)
- Infrastructure-related Travel Demand Management (park & ride lots, transit or HOV lanes, priority signalization, bus shelters, intermodal transportation centers)
- Planning Studies (road diets, corridor studies, network studies, pedestrian/cyclist safety studies)

9. Where is this project located?

(road names, nearby facilities/landmarks) *

10. What is the scale of this project?

(please provide approximate measurements in feet; you can use Google Maps measuring tool to estimate distances) *

A large, empty rectangular box with a thin black border, intended for the user to provide approximate measurements in feet for the project scale.

Purpose, Need, and Scope

11. Please provide the Purpose Statement for this project.

ex: "The purpose of this project is to support increased non-motorized activity by addressing safety issues resulting from unsafe vehicle speeds and inadequate protections for pedestrians on Main Street between 1st and 2nd Street." *

12. Please provide the Need Statement for this project.

ex: "The section of Main St between 1st Street and 2nd Street is unsafe for pedestrians. This section is in the center of the city's commercial district concentrated with jobs and small businesses. In the past 5 years there have been 15 crashes in this section of Main St: two resulted in serious injuries to pedestrians and one resulted in a pedestrian fatality. Continued local economic development depends on increased walkability and safety for pedestrians." *

13. Please outline the project scope.

ex. "Install pedestrian crossings on Main Street at 1st and 2nd street intersections and at mid-block, including pedestrian refuge medians, other streetscaping and traffic calming infrastructure." *

14. Please provide any additional information about this project.

(local knowledge/insight, relevant studies/data, infrastructure needs, etc.) *

Supplementary Information

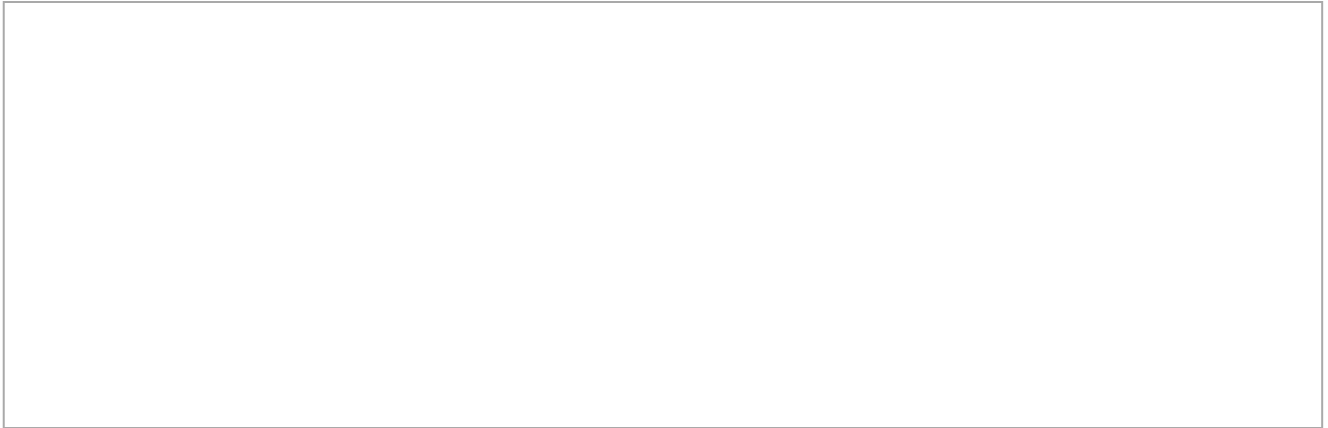
Please note that these questions are not required to make an initial submission. If you are not able to provide answers to some or all of these questions at this time, please leave the question(s) blank and Jess or Susan will reach out to provide assistance.

15. How involved has the public been in this project proposal so far?

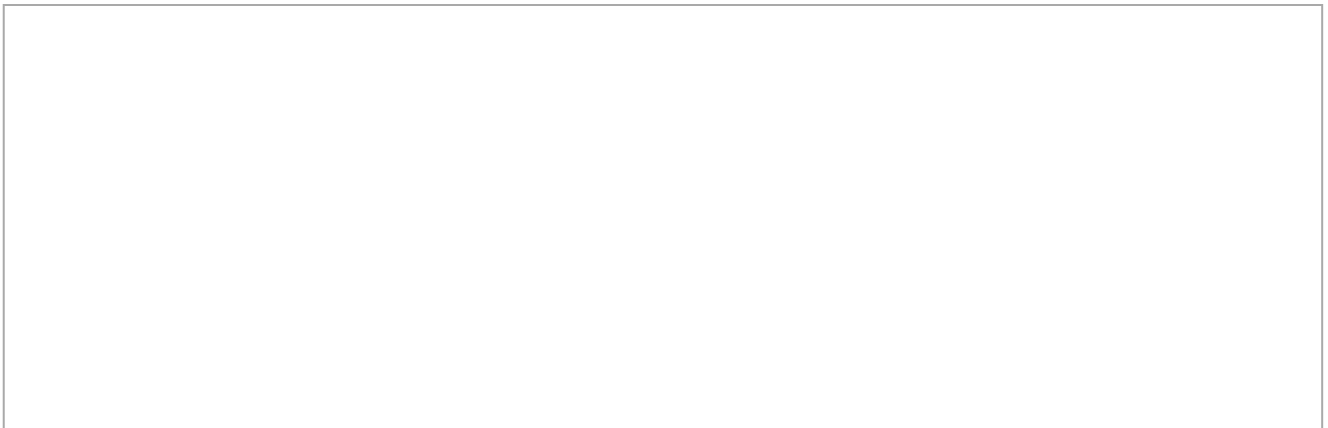
(please make note of any dates, agenda items, minutes from public meetings, and decisions influenced by public involvement)

16. Are there opportunities for further public discussion of this project in the near future?

17. Will the project be managed locally?

A large, empty rectangular box with a thin black border, intended for the user to provide an answer to question 17.

18. What alternative options or methods have been considered to address this need and what makes this project proposal the best option?

A large, empty rectangular box with a thin black border, intended for the user to provide an answer to question 18.

19. Please provide evidence supporting this project, including letters of support.

(review list of documents, letters of support, data sources, plans, guidance, maps, etc. that will serve as sources of information to bolster the application; please note what and where you are referencing from)

A large, empty rectangular box with a thin black border, intended for the applicant to provide evidence supporting the project, such as letters of support, data sources, plans, guidance, and maps.

Thank You!

Thank you for completing this project proposal form.

Please email any relevant documents, maps, cost estimates, and data (local plans/master plans, cost estimate, local police crash data, maps, transit operator data, development studies, bike/pedestrian surveys, project scope, conceptual design, etc.) to this project that you have to jbighinatti@lakesrpc.org (<mailto:jbighinatti@lakesrpc.org>), or sslack@lakesrpc.org (<mailto:sslack@lakesrpc.org>).

If you have any questions please call Jess at (603)-279-8171 or Susan at (603)-279-5337

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 Microsoft Forms

Union Avenue Rehabilitation

Laconia, NH

Krista Larsen, P.E.
Assistant Public Works Director
(603) 528-6379 • KLarsen@laconianh.gov

8. Project Type: Highway

9. Location: Route 107/Union Avenue from Route 106/Main St to Route 11A/Gilford Ave

10. Scale: 3,000-ft

11. Purpose: The purpose of this project is to rehabilitate this heavily travelled and populated downtown corridor in the lakes region. The rehabilitation will include replacing underground utilities including stormwater/drainage infrastructure, structural roadway improvements, pedestrian accessibility, traffic and pedestrian signals, and streetscape and lighting.

12. Need: The project will provide adequate stormwater management that can handle higher intensity storm events, bring all sidewalks and pedestrian crossings to the standards of the Americans with Disabilities Act (ADA), rebuild the roadway subbase and install proper asphalt thickness to handle increasing vehicle loads and truck traffic, update traffic and pedestrian signals and incorporate streetscapes and lighting to enhance this downtown setting.

Network Significance – The 2019 Annual average daily traffic (AADT) count was 11,120. This is up 40% from 3 years ago. This section of Route 107 has comparable use to the Route 3 bypass which had a 2019 AADT count of 11,335. Unlike the Route 3 Bypass, however, Union Avenue has a significant amount of pedestrian traffic and is an urban setting. Route 107 is identified as a major state route by the Lakes Region Planning Commission.

Safety – Safe Transportation for Every Pedestrian (STEP) countermeasures are included in the project including crosswalk visibility enhancements, countdown timers and chirpers. With the amount of vehicle and pedestrian traffic, including significant freight movement, safe access in this section of Route 107 is critical.

Economic Development – Revitalization of downtown areas following major roadway rehabilitation projects is well documented. Laconia has recently completed three major road reconstruction projects in the last 3 years – Union Ave/Route 3 in Lakeport, Lakeside Avenue at the Weirs, and Court Street/Route 3 from the Belmont town line to downtown. In all three cases, vacant buildings gained new tenants and existing businesses made valuable improvements that served to greatly enhance these commercial and residential districts.

State of Repair – The existing infrastructure is aged and failing and in need of continuous maintenance. The project proposes to first replace the water and sewer mains providing reliable services to homes and businesses. Next the project will upgrade the undersized drainage system giving it the capacity to withstand higher intensity storm events. The roadway will then be upgraded with proper road base materials and pavement thickness that will provide the structural support for the amount and type of traffic loading. All of these improvements will dramatically reduce the maintenance that is currently required in this area.

Mobility – Route 107 is considered an arterial in accordance with FHWA Highway Functional Classification Guidance. The NHDOT 2019 NH Freight Plan states that “The primary arterial highways which pass through developed areas present some level of congestion throughout the day and are

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Laconia, NH

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therefore prominent among the high-delay links. Among these, several high-delay corridors can be identified: Routes between Laconia and both I-93 and I-393.” Route 107 is identified as part of this arterial network.

Equity, Environmental Justice & Accessibility – Laconia stands out in the Lakes Region with 23% of its population below 150% of the poverty threshold and 4.8% of its population as non-white. The urban revitalization that often occurs as the result of road rehabilitation projects is crucial for potential job creation for this under-served, low income, minority population. Constructing sidewalks and pedestrian crossings to proper standards will provide for safer and more accessible pedestrian travel including access to Lakes Region General Hospital. The upgraded stormwater drainage system will be equipped to handle high intensity storm events, preventing uncontrolled runoff into the Winnepesaukee River which runs parallel to this section of Union Avenue, while providing stormwater treatment.

Natural Hazard Resiliency – In addition to properly sizing the stormwater collection system, the project proposes to re-route a portion of the drainage system from flood prone Jewett Brook to a new permitted outfall in the Winnepesaukee River.

13. Scope: The scope includes underground utility improvements, road, sidewalk and intersection reconstruction, pedestrian accessibility to ADA standards, improved stormwater management and streetscape enhancements.

14. Additional info: Route 107/Union Avenue is a vital connector for business and commerce between Interstate 93 and Route 3 and Route 11 and locally provides access to Lakes Region General Hospital. The sidewalks, intersections, roadway structure and stormwater infrastructure is substandard for this main corridor in the heart of the Lakes Region. This section of Union Avenue will also tie together three major roadway rehabilitation projects that Laconia has completed in the last two years providing a safe and high-quality driving, walking and bicycling experience from Lake Winnisquam to Lake Winnepesaukee. The project is currently at 90% design completion.

15. How involved has the public been in this project proposal so far? A public input session was held during the design phase of the project with the intent to obtain first hand knowledge and experience of the project area. This included commonly used pedestrian routes, known puddling and drainage problems, road and sidewalk deficiencies and desired enhancements to be incorporated into the streetscape design.

16. Are there opportunities for further public discussion? Yes. There will be opportunities for the public to provide feedback, ask questions and provide suggestions during the implementation process.

17. Will the project be managed locally? Yes. The project will be managed by the City of Laconia.

**Union Avenue Rehabilitation
Laconia, NH**

Krista Larsen, P.E.
Assistant Public Works Director
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18. What alternative options or methods have been considered to address this need and what makes this project proposal the best option?

Alternate options include no changes to the roadway, or a paving overlay with no infrastructure or roadway structural improvements. The roadway and sidewalks are in immediate need of attention and pose potential hazards to the travelling public. A “no work” option is not a viable long-term solution. Another option, in lieu of “no work” or complete roadway reconstruction, would be a simple paving overlay that would address the maintenance issues in the short term. However, this is also not deemed a viable long-term solution because it does not address the deficiencies of the infrastructure, roadway structure and pedestrian accessibility.

19. Please provide evidence supporting this project, including letters of support

From: [Krista Larsen](#)
To: [Susan Slack](#)
Subject: Laconia TYP applications Cost Estimates
Date: Monday, September 21, 2020 4:05:43 PM

Hi Susan,

Here are the cost estimates for Laconia's 4 applications-

Route 106/State School roundabout	\$2,500,000
Endicott Street North pedestrian crossing with PHB	\$174,000
Union Avenue Rehabilitation	80% State funded = \$3,250,000
Langley Cove Bridge	80% State funded = \$1,400,000

If you wouldn't mind checking my math. I took the current estimate, multiplied by 2.8% compounding for 10 years. Then added another 10% for indirect at Year 10 for the cost estimate. So Route 106/State School roundabout is \$1.7M this year and (rounded) \$2.5M Year 10 with 10% indirect costs.

	\$ 1,700,000	
Year 1	\$ 1,747,600	2.8%
Year 2	\$ 1,796,533	2.8%
Year 3	\$ 1,846,836	2.8%
Year 4	\$ 1,898,547	2.8%
Year 5	\$ 1,951,706	2.8%
Year 6	\$ 2,006,354	2.8%
Year 7	\$ 2,062,532	2.8%
Year 8	\$ 2,120,283	2.8%
Year 9	\$ 2,179,651	2.8%
Year 10	\$ 2,240,681	2.8%
10% indirect	\$ 2,464,749	

Assistant Director
City of Laconia, Department of Public Works
Phone: office (603) 528-6379 x 306
Phone: cell (603) 455-0148

Email: klarsen@laconianh.gov
Laconianh.gov/RoadUpdates