

Excerpts re. Route 1-Route 88 Intersection from the study below:

Purpose of the Route 1 Complete Streets Plan

In the fall of 2016, the Towns of Falmouth, Cumberland and Yarmouth began work on a detailed plan to upgrade the entire length of their Route 1 corridor to increase safety and access for bicycles, pedestrians, buses, trucks, and passenger cars.

This method of planning, known as "Complete Streets," is based on the understanding that streets should be safe and accommodating to all users and all modes of travel. Treatment will depend on context and should balance the needs of all users.

Each of the study area communities identified locations that should be the focus of a detailed evaluation and those where general recommendations were appropriate.

Review of Route 1 section: Portland to Bucknam Road

The Town has recently implemented complete streets improvements between Portland and Bucknam Road and a detailed concept plan is not proposed for this section. This area was reviewed for future enhancement and adjustment.

The only exception is investigation of long term improvements at the Route 88 intersection. Recent changes implemented in 2016 reflect recommendations from a FHWA sponsored Safety Audit and did not address future improvement needs. Accordingly, this plan includes a detailed plan for Route 88.

Review of Route 1 section: Bucknam Road to Johnson Road

Pavement surface improvements were recently implemented in this section. However, detailed concept plans are proposed from the Turnpike Spur area to Cumberland. These plans were developed in conjunction with the **Route 1 North Vision Plan** prepared by VHB.





IDENTIFY ISSUES AND OPPORTUNITIES

Route 1 - Route 88 intersection

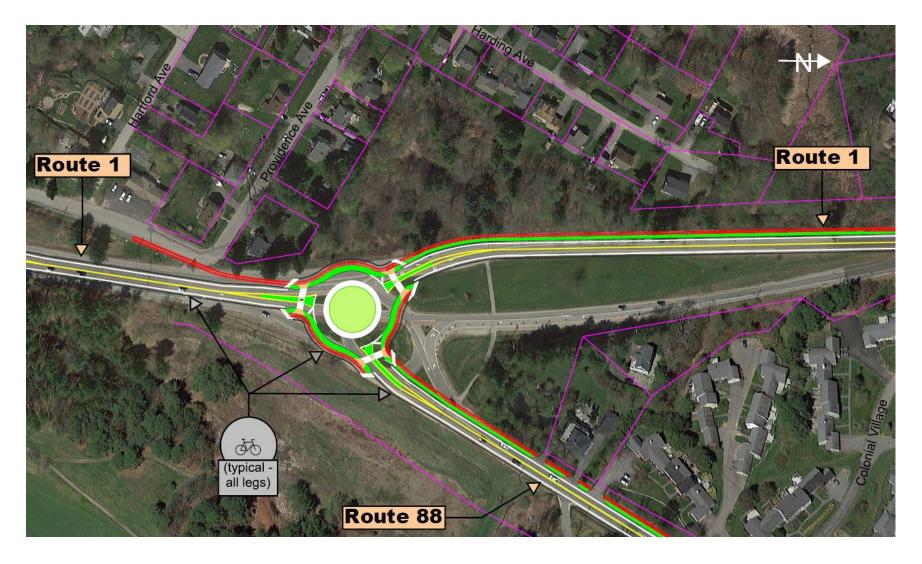
lssue 1: Opportunity:	The intersection configuration is confusing and designed for high speed movements and automobile focused. Reconfigure intersection to a roundabout.	
Issue 2:	Bicycle and pedestrian safety.	
Opportunity:	Reconfigure intersection for enhanced safety.	
Issue 3:	Lack of landing pad and bus stop amenities.	
Opportunity:	Construct landing pad.	
lssue 4:	Route 88 intersection has several issues including: crosswalk behind bus stop; no bus stop amenities; and the sidewalk width is too narrow to accommodate an ADA compliant 8-foot landing.	
Opportunity:	Consider bus stop enhancements.	

Alternative Development Options for Route 1 - Route 88 intersection

An evaluation of a roundabout at the Route 1 and Route 88 intersection was investigated. Based upon future 2030 traffic volumes a single lane roundabout will operate at an acceptable level of service.

Two roundabout layout configurations were investigated.

Alternative 1 illustrates a roundabout that will require reconstruction of Route 1 north of the intersection. The primary benefit of this alternative is the creation of a 2-acre parcel of land on the northeast corner of the intersection that could be used as a development parcel or as open space.



Alternative 2 attempts to maintain the separate Route 1 northbound and southbound one-way roadway pavement areas and thus reduces construction costs. A developable parcel would not be created with this concept.



Recommended Concept: Alternative 1

Based upon the benefit of creating a development parcel Alternative 1 is recommended. This would add additional construction cost, but would allow the Town to recoup the cost via the creation of a developable land parcel.

Pedestrian and Bicycle

The roundabout would be designed to provide separated bicycle/pedestrian paths that would allow users to avoid circulating through the roundabout with vehicular traffic.

Transit

The proposed roundabout would incorporate bus stops and safe pedestrian facilities. Short-term improvements shall consider enhancing stops to be fully ADA compliant. Coordination with METRO to determine the best location for stops and amenities is recommended.

Cost Estimates

Planning Level Cost Estimate Route 88 Recommendations (Alternative 1) in Falmouth			
Improvement	Approximate Cost		
Route 88 Roundabout	\$ 1,100,000		
Mobilization and MOT (10%)	\$ 110,000		
Contingency (20%)	\$ 220,000		
Construction Total	\$ 1,430,000		
Design Cost (10%)	\$ 143,000		
Construction Engineering (8%)	\$ 114,400		
Total Cost	\$ 1,687,400		

Planning Level Cost Estimate Route 88 Recommendations (Alternative 2) in Falmouth			
Improvement	Approximate Cost		
Route 88 Roundabout	\$615,000		
Mobilization and MOT (10%)	\$ 61,500		
Contingency (20%)	\$123,000		
Construction Total	\$799,500		
Design Cost (10%)	\$ 79,950		
Construction Engineering (8%)	\$ 63,960		
Total Cost	\$ 943,410		