



BOLTON GREENWAY EXTENSION

Preliminary Design

Bolton, CT

January 7, 2016

Tonight's Agenda

- Introduction
- Project Overview
- Review of Previous Meeting
- Progress since Last Meeting
- Review of significant impacts/issues
- Review Cost Estimate
- Looking Ahead

Bolton Greenway Extension Project Team



Robert Pinckney, P.E. - Project Manager

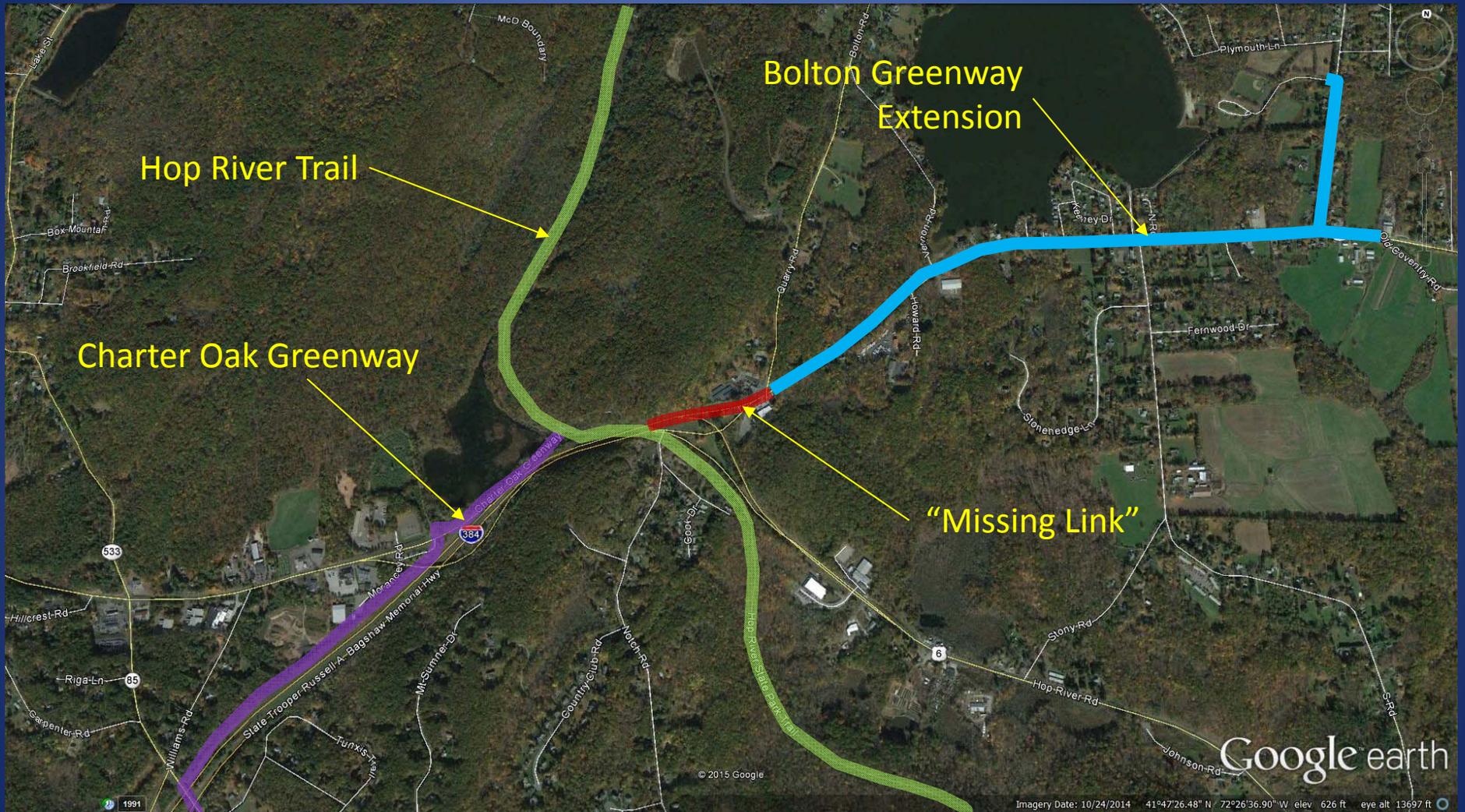


Frank Vacca, P.E. - Project Engineer

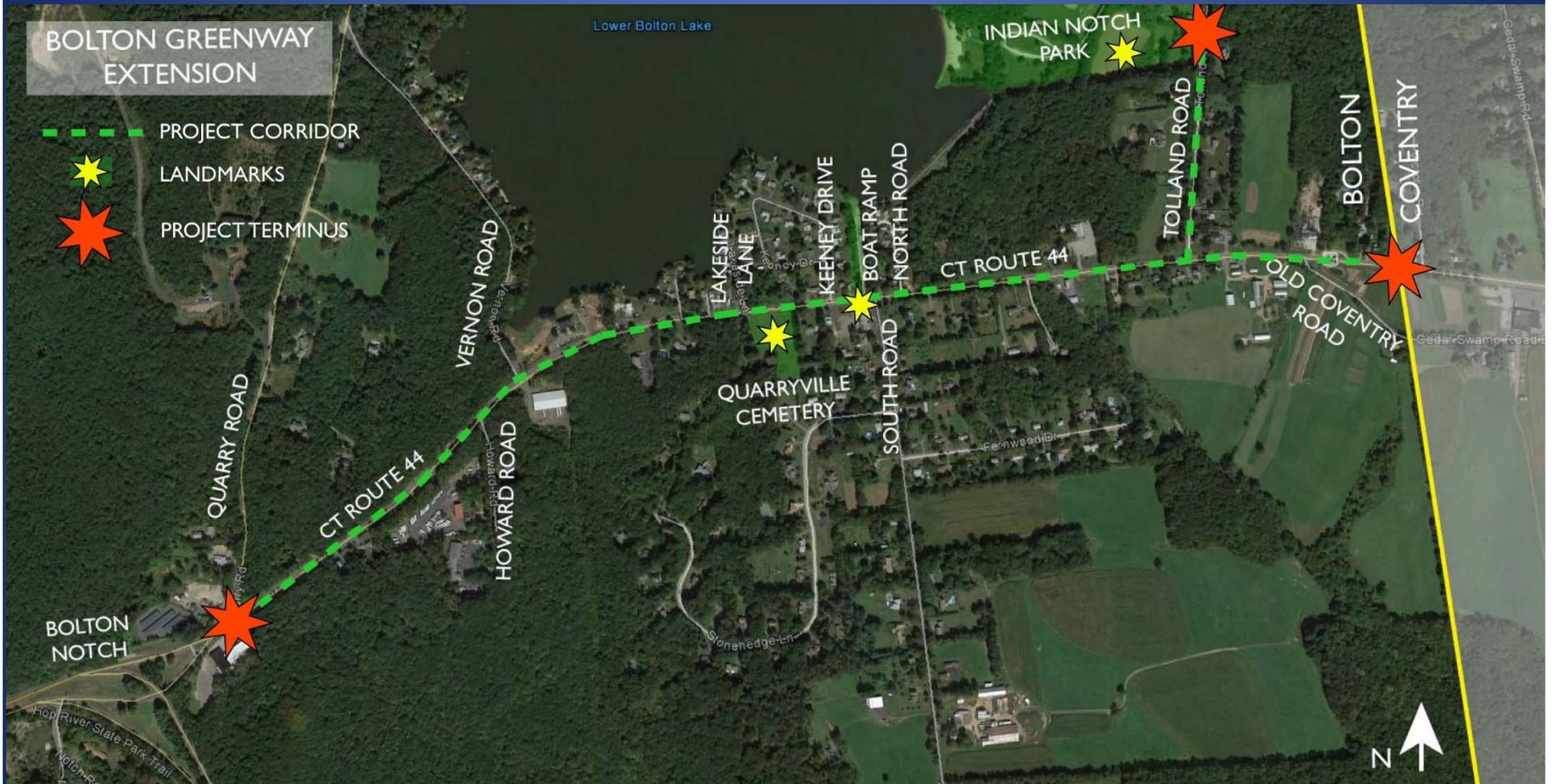
Overview and History

- **Study and preliminary design for the Bolton Greenway Extension which will run along the Route 44 corridor from the west side of Quarry Road to the Coventry town line with a spur trail to the existing parking area at Indian Notch Park located along the west side of Tolland Road**
- **CT Department of Energy and Environmental Protection's (DEEP) Recreational Trails Program Grant**
- **Related Projects:**
 - The Connecticut Department of Transportation's State Project Number 12-96, the Charter Oak Greenway Extension from Highland Park in Manchester, CT to the existing parking area at Bolton Notch. The 2008 Route 44 Strategic Corridor Plan by Fitzgerald & Halliday
 - The 2013 Route 6 Hop River Corridor Transportation Study by Clough Harbor & Associates, LLP.
 - The 2010 Route 6 Hop River Corridor Economic and Development Strategy and Master Plan Study by LADA, PC.
 - The Connecticut Department of Transportation, in a separate project from State Project Number 12-96, will be responsible for trail design from the existing Hop River Trail at Bolton Notch to the intersection of Route 44 and Quarry Road.

East Coast Greenway Location Map:



Bolton Greenway Extension Project Area



Review of Previous Meeting

- January 9, 2015
 - Existing Conditions
 - Bike Facility Feasibility
 - On-road versus Off-road Facility



Shared Use Side Path

VS



Dedicated Bike Lane

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Shared Use Side Path

VS



Dedicated Bike Lane

AASHTO and ConnDOT Design Guidelines

Shared Use Side Path (Route 44 – Boston Tpk.)



- Minimum 10' wide path recommended
- Minimum 5' separation distance recommended
- Minimum 2' lateral offset from obstacles (e.g. mailboxes, utility poles)
- Maintain consistent path width and features
- Avoid excessive engineering to roadway features
- Follow existing road alignment
- Sufficient drainage area to prevent offsite storm water run-off.

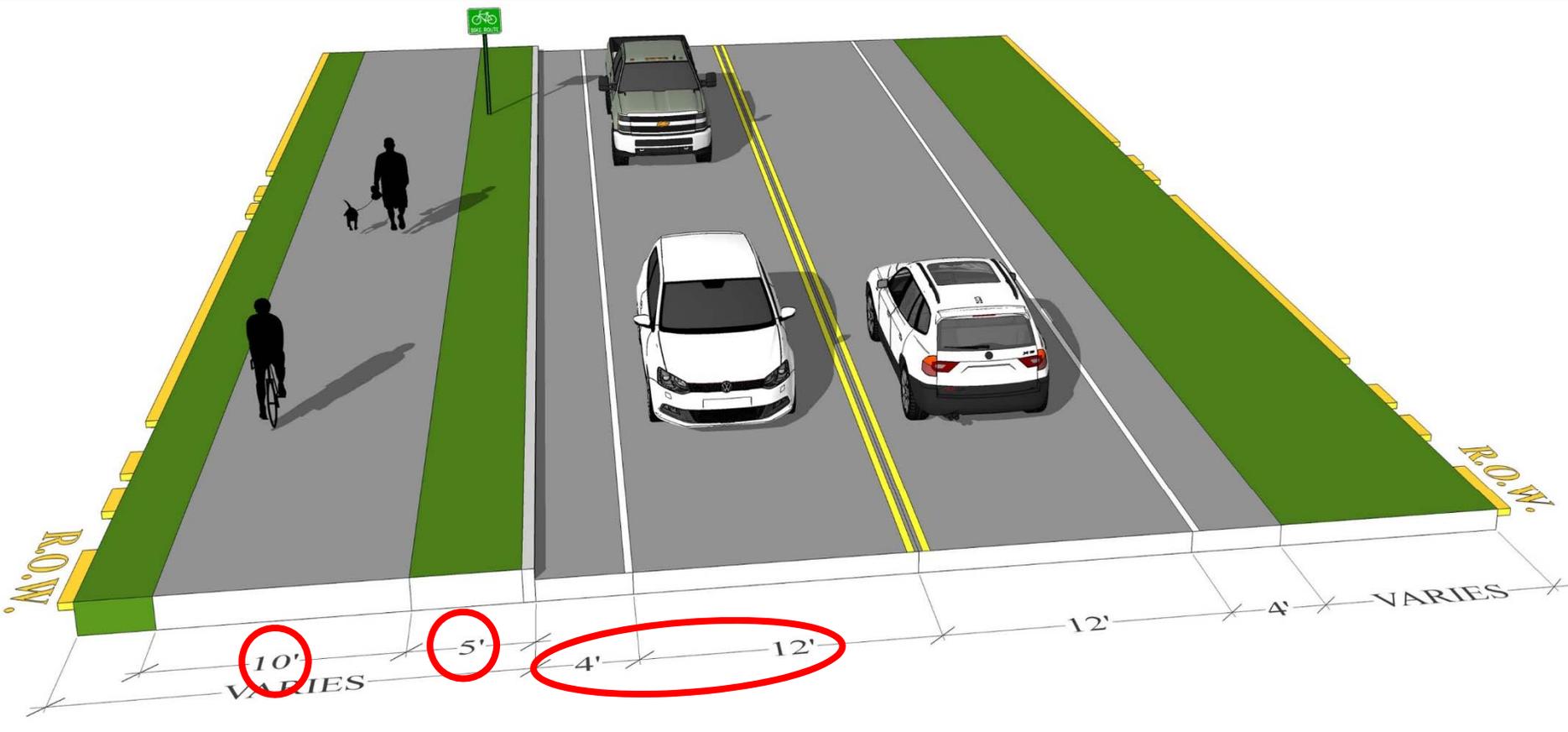
PRELIMINARY DESIGN

ROUTE 44 – BOSTON TURNPIKE CORRIDOR

Preliminary Design:

- **Location and Orientation of Side Path**
 - Utilize the following design criteria:
 - 10' Wide Path
 - 5' Wide Separation Distance (between path and Roadway)
 - Keep all work (including earthwork) inside Route 44 Right-of-Way
 - Maintain a common roadway width of 16 feet (11 foot lane/5 foot shoulder)

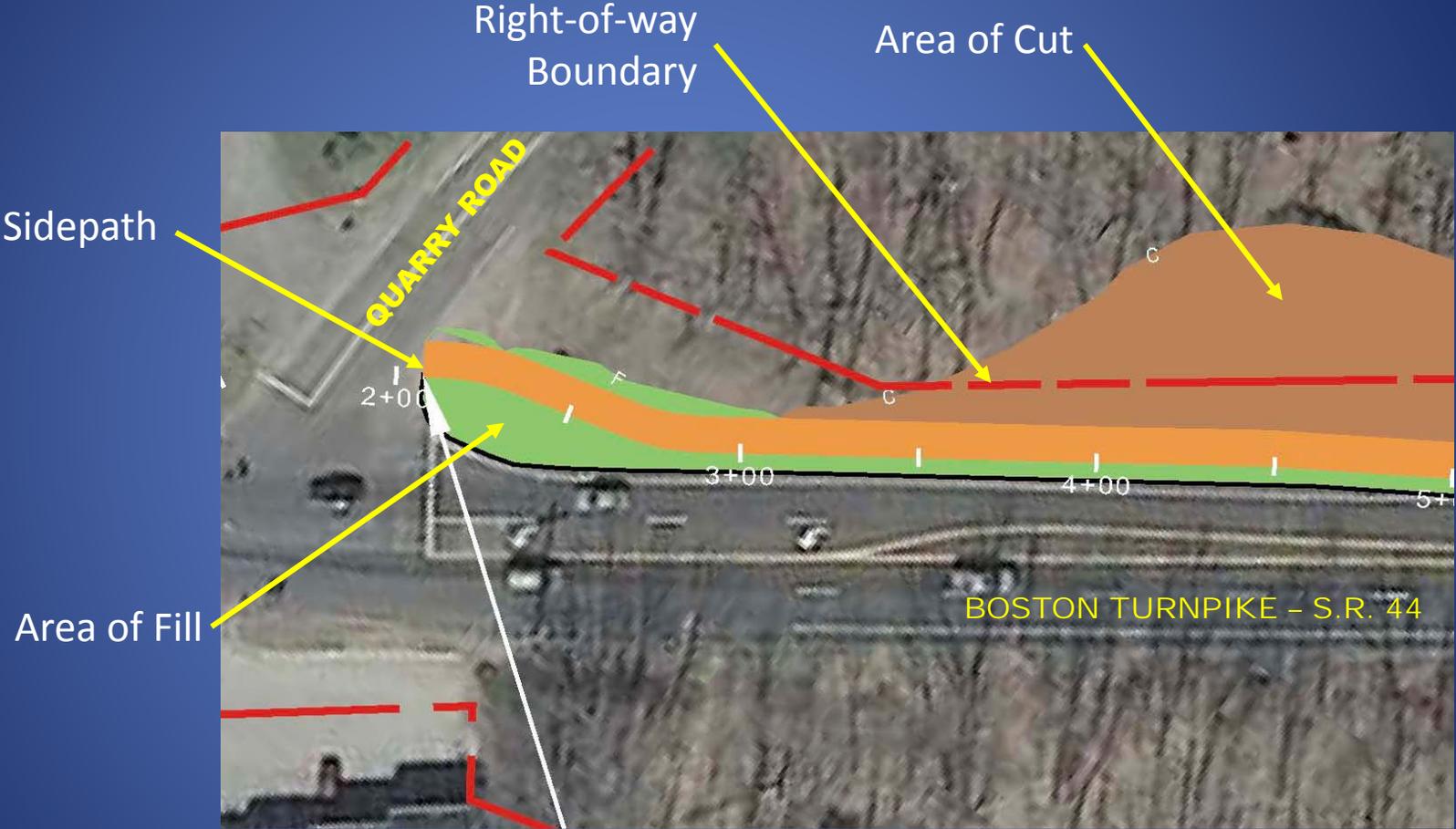
Preliminary Design: Typical Section



Preliminary Design: Path Orientation



Preliminary Design: Path Enlargement



Preliminary Design:

- **Multiple Iterations to determine the most beneficial layout**
- **Coordination with The Connecticut Department of Transportation (ConnDOT)**
 - Pavement Trimming
 - Separation Distance
 - Improvements to South Road Signal
- **Coordination with Town of Coventry**

Before



After - Shared Use Side Path



Before



After - Shared Use Side Path



PRELIMINARY DESIGN

TOLLAND ROAD SECTION

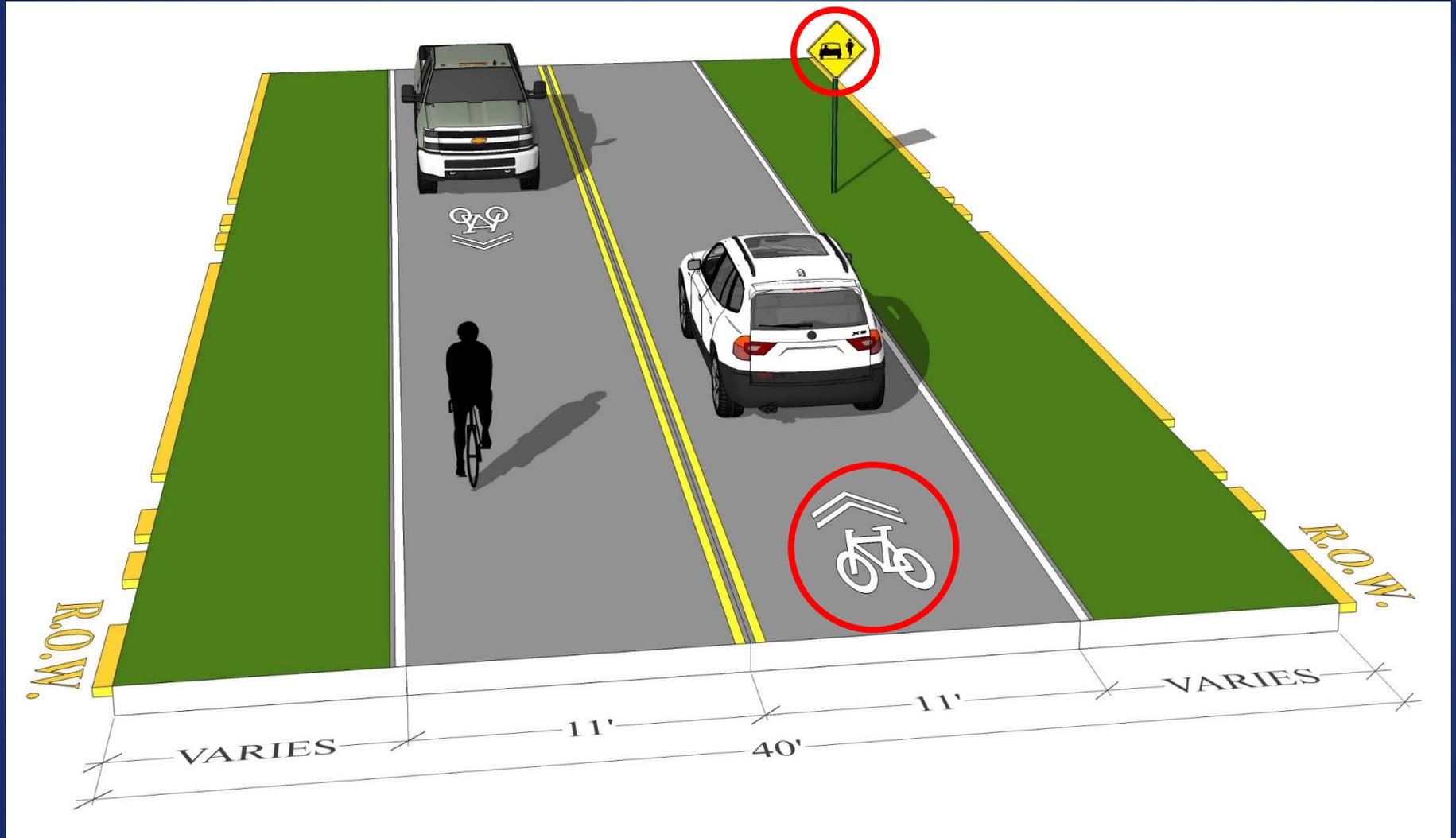
AASHTO and ConnDOT Design Guidelines

Marked Shared Lanes (Sharrows) Tolland Road



- 11' wide lanes marked as shared roadway
- Minimum 2' lateral offset from obstacles e.g. mailboxes, utility poles
- Use shared lane markings and “Share the Road” signage
- Sufficient drainage area to prevent offsite storm water run-off

Preliminary Design: Typical Section



Before



After– Shared Lanes



REVIEW OF SIGNIFICANT IMPACTS/ISSUES

Issues/Impacts:

- **Out of date base mapping**
- **Rock Cuts**
- **ROW size limitations**
 - Reduced Path width
 - Reduced Separation Distance
- **Retaining Walls**
- **Drainage Improvements**
- **Side Road Intersections/ Signalized Intersections**

Preliminary Design Impacts:



OPINION OF PROBABLE CONSTRUCTION COST

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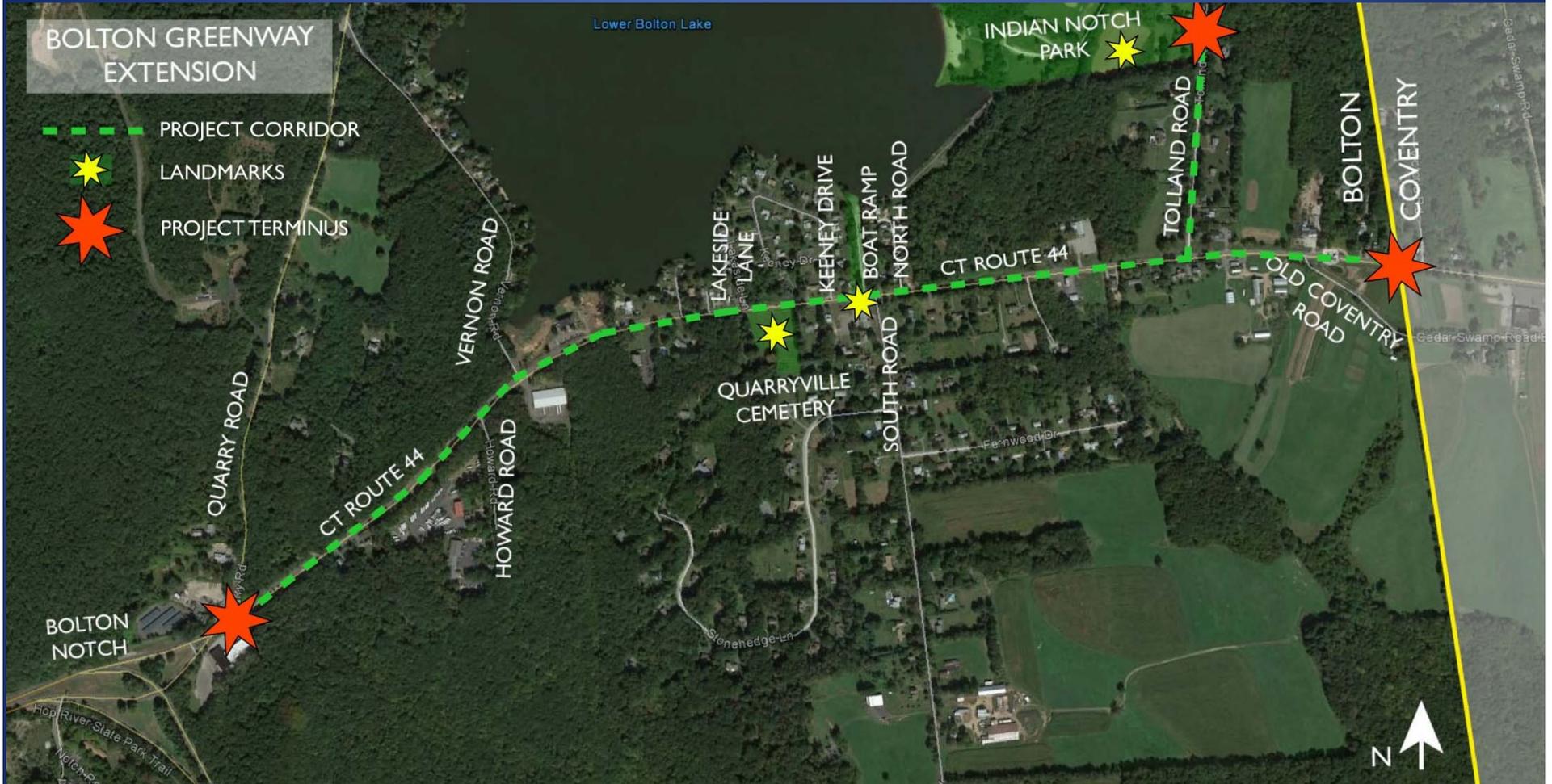
SUMMARY

| | |
|---|---------------------|
| Bolton Greenway Extension Construction | \$ 1,830,000 |
| Right-of-Way Impacts | \$ 490,000 |
| Legal Expenses | \$ 200,000 |
| Final Design, Surveying, and Permitting | \$ 100,000 |
| Geotechnical Investigations of Rock Slopes | \$ 20,000 |
| Environmental Investigations – Screening Level (Archeological / Historic / Hazardous Material / Wetland Delineation) | \$ 22,000 |
| TOTAL | \$ 2,662,000 |

Next Steps

- **Funding**
 - Research
 - Grant Applications
- **Final Design**
- **Construction**

Community Input



Community Input

- **Email Question or comments to:**
Patrice L. Carson, AICP
Director of Community Development
patrice.carson@boltonct.org
- **Please submit questions/comments by
February 1, 2016**