Introduction to Metropolitan Transportation Planning

Session 3

November 28, 2018
• Serves as the annual work program for our activities & projects

• Updated each fiscal year with projects and deliverables (July 1 - June 30)
Corridor Studies

• Comprehensive assessment of current and future transportation and land use corridor conditions
• Corridor Vision, Goals and Objectives
• Multimodal Recommendations
  – Capital Investments for all Modes
  – Further Scoping of Specific Facilities
  – Operational/Maintenance
  – Land Use (Access Management, Zoning)
  – Management Tools/Processes (e.g., traffic calming guidelines)
Examples of Corridor Studies

- US 2 (Burlington to Williston)
- Colchester Ave (Burlington)
- VT 116 (Hinesburg)
Scoping Studies

Goal is to select a preferred alternative that meets the project’s Purpose & Need

- Evaluate existing and Future Conditions
- Develop Purpose & Need
- Develop alternative options
- Evaluate alternatives
- Select preferred alternative
- Public input throughout
- Scoping Report
Examples of Scoping Studies

• Winooski River (Main St) Bridge
• Colchester Ave/Riverside Ave/Barrett St
• Shelburne Gateway
Technical Assistance

- Speed studies
- Traffic calming studies
- Safety & Sight Distance evaluations
- Signal retiming and lane assignments
- Road Safety Audits
- Systemic Local Roads Safety (SLRS)
Intelligent Transportation Systems (ITS)

- Countywide ITS Plan update (2014)
- Advanced Traffic Monitoring System using Bluetooth Technology (FHWA Grant)
- Arterial Traffic Signal Assessment Studies
  - Exit 14 Area Signal System Assessment
  - VT Route 15 Signal System Assessment
  - Shelburne Street Signal System Assessment, Burlington
Municipal Project Manager (MPM)

- Manager role for VTrans-funded municipal grant projects
- Manage and assist municipalities through project development, design and construction
  - US 7 and Falls Road sidewalk project in Shelburne
  - Hinesburg Road sidewalk project in South Burlington
  - VT 116, South Village area Sidewalk project in Hinesburg
  - VT 15 Sidewalk project in Underhill
Transportation Demand Management (TDM)

Using strategies and policies to reduce SOVs and encourage/incentivize other modes such as walking, biking, ridesharing, transit, bikesharing and carsharing.
Walk/Bike

- Active Transportation Plan (2017)
- Municipal Walk/Bike Plans
- Sidewalk/Path Planning
- Local Motion
- Greenride Bikeshare
Data Collection

• Summer Intern Program
• Traffic Counts
  – Intersections (Manual Turning Movements)
  – Roadways (ATRs)
  – Bike (Video Cameras)
• Inventories
  – Pavement
  – Culvert
  – Signs
  – Guardrails
  – And more!
Water Quality & Transportation

CCRPC Assistance with Municipal Roads
General Permit (MRGP) Compliance

Inventory & Prioritize
• Road Erosion Inventories (REIs)
• Data Management
• Standards Scoring
• Reporting

Construction
• ANR Grants
• VTrans Grants
• Municipal Funds

Planning
• REI concept Plans
• UPWP WQ scoping
Transportation Projects: Planning to Implementation
Transportation Planning Processes

• Transportation projects are identified because of community needs
  – Address safety, capacity, connectivity, access to jobs, support housing, etc.

• Corridor Management Studies
  – Develop recommendations that could be move towards implementation or towards further scoping

• Scoping/Project Definition Studies
  – Initial phase of the Project Development Process
VTrans Project Development Process

1. Project identification and Authorization to Proceed
2. Project Development (Scoping/Conceptual Plans/NEPA)
3. Design: Preliminary & Semi-Final Project Plans
4. Right-of-Way Acquisition
5. Final & Contract Plans
6. Construction
7. Town and Act 250 Permits
Project Example #1: Exit 16

• Circulation Study finalized July 2009
• Scoping study finalized December 2011
  – Preferred Alternative: DDI & Other Intersection Improvements
• VTrans Project Milestones
  – Preliminary Plans, September 2012
  – Permitting, November 2016
  – Act 250 Permit Appeals - Ongoing legal case
  – Construction, scheduled 2020-2021
VT 116 Potash Brook Culvert

- Scoping completed in January 2007
- 6 alternatives evaluated
  - Different culvert types
  - On or off alignment
  - Close road or maintain traffic
VT 116 Potash Brook Culvert

- Two Public Meetings
- Project added to the TIP in FY12
- Constructed in FY17
- Full road closure for 2 months
VT 116 Potash Brook Culvert
South Burlington, VT 116 Sidewalk

- Pre-2010, project scoping
- 2011 CCRPC Sidewalk grant for design and construction
- 2014 VTrans Bike/Ped Grant, additional for design and construction
- 2017 Construction