CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION
TRANSPORTATION ADVISORY COMMITTEE
AGENDA

DATE: 
Tuesday, November 1, 2016
TIME: 
9:00 a.m.
PLACE: 
CCRPC Office, 110 West Canal St. Winooski

DELIBERATIVE AGENDA:

1. Action on Consent Agenda 9:00 - 9:05
   See attached memo on Bike/Ped program TIP amendments,

   See attached.

3. Public Comment Period (Information item) 9:10 - 9:15
   Members of the public are invited to raise issues of interest or concern to the TAC on items not on the agenda.

4. Malletts Bay Stormwater Project Update (Information Item) 9:15 – 9:25
   The project proposal evaluation committee decided to hire VHB for this stormwater and transportation scoping project. Staff will give an update.

5. Regional Modeling Overview and Update Process (Information Item) 9:25 – 9:45
   Staff will present a high level overview of the Regional Transportation Demand Model, what types of analyses it can be used for, and its shortfalls. The status and objectives of the model update currently underway will be covered as well.

6. Future Population Forecasts (Information Item) 9:45 - 10:10
   An essential step in planning for the future is to estimate population numbers and characteristics. Our transportation model update depends of these forecasts and we plan, as well, to offer municipal level forecasts for our member towns. See attached memo for more information.

7. Regional Energy Plan (Information Item) 10:10 – 10:30
   CCRPC is working on developing an enhanced Regional Energy Plan that will ultimately become a section in the 2018 Chittenden County ECOS Plan. This plan will have transportation impacts. See attached memo for more information.

8. Status of Projects and Subcommittee Reports (Information Item) 10:30 – 10:40
   See bulleted list on the reverse for current CCRPC projects. TAC members are encouraged to ask staff for more information on the status of any of these on-going or recently completed projects.

9. CCRPC October Board Meeting Report (Information Item) 10:40 – 10:45
   The Board met on October 19th and heard an update on VTrans activities from Michele Boomhower.

10. Chairman’s/Members’ Items (Information Item) 10:45 – 10:50

CONSENT AGENDA – See memo attached.

Next Meeting: Tuesday, December 6, 2016
Project list:

- Title VI program participation and Public Participation Plan implementation
- Participation in working groups for the Vermont Highway Safety Alliance
- Participation in the State’s Rail Council
- Coordination with United Way on the Neighbor Rides Program
- Adaptive Signal Control – Exit 14 Systems Engineering Analysis (Burlington/South Burlington)
- Advanced Traffic Monitoring System through FHWA AID grant – Pilot Corridor design
- Systemic Local Roads Safety (SLRS) Program – VTrans submitted final improvements plan
- Allen Martin/VT 15 Intersection Scoping Study (Essex)
- Expanded National Highway System (NHS) & Functional Class Review and Update
- LPM services for Underhill sidewalk construction on VT 15
- LPM services for Shelburne sidewalk construction on US 7
- LPM services for South Burlington sidewalk construction on VT 116
- Charlotte Park and Ride Study
- Regional Active Transportation Plan
- Burlington Winooski Avenue Circulation Study
- Bay Road Shelburne Bike Ped Corridor improvements study
- Bay Road Underpass pilot study
- Burlington/Winooski Main Street Bridge scoping
- Colchester Ave/Riverside Ave/Barrett St Intersection Scoping (Burlington)
- US 7 Southern Gateway Scoping (Shelburne)
- Winooski Transportation Master Plan (Draft Plan Completed)
- North Ave Pilot Study (Burlington)
- Railyard Enterprise Scoping/PEL Project & Supplemental Scoping of Alternative 1B (Burlington)
- Transportation Hazard Mitigation Planning
- Winooski River Bicycle/Pedestrian Bridge
- Essex Path/Sidewalk Impact Policies
- So. Burlington Williston Road Area Transportation and Land Use Network Analysis
- So. Burlington VT116-Kimball-Tilley Land Use and Transportation Plan
- Williston Exit 12 Transportation Improvement District (TID) Pilot Project
- Mountain View Road Scoping Study, Williston
- Alternative Transportation Crossing Study for of I-89 Exit 14, South Burlington
- Regional Transportation Energy Planning
- Shelburne Phase 2 of Form Based Zoning to Improve Walkability
- Overhaul of South Burlington’s Traffic Overlay District
- Jericho Riverside Future Street Network Study
- Winooski Downtown Parking Management Study
- Update to South Burlington’s Transportation Impact Fee Ordinance
- ADA Evaluation of Pedestrian Facilities in Essex/Essex Junction
- Malletts Bay Stormwater Management Plan (Colchester)
CCRPC Transportation Advisory Committee
November 1, 2016
Agenda Item 1: Consent Item

FY2017 Transportation Alternatives Program Amendments

Issues
Make changes listed below to the FY2017 year of the TIP. Note that these amendments change the FY17 year of both the FY16-19 TIP and the FY17-20 TIP since the FY17-20 TIP has not yet been approved by FHWA.

2016 Bike/Ped Awards

<table>
<thead>
<tr>
<th>Project</th>
<th>Detailed Description</th>
<th>Federal Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colchester - Mt. View Drive Sidewalks</td>
<td>New 5-foot-wide concrete sidewalks on the South side of Mt. View Road from US7 to Water Tower Circle. Project includes two RRFB's. drainage, signing, and landscaping. Project length = 2,640 feet</td>
<td>$179,500</td>
</tr>
<tr>
<td>(Amendment FY17-1)</td>
<td></td>
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<tr>
<td>Milton - Sidewalk on US7 from Nancy Dr. to</td>
<td>Project will fill in 3,830 linear feet of sidewalk gaps that currently exist along US7 in Milton from Nancy Drive to Haydenberry Drive. When complete, this project will enable a full sidewalk network from Nancy Drive to Rene's Market. This is part of the Milton 4D Sidewalk and Streetscaping Project.</td>
<td>$850,000</td>
</tr>
<tr>
<td>Haydenberry Dr. (Amendments FY17-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hinesburg - Village South Sidewalk</td>
<td>New sidewalk on VT116 from Hinesburg Community School south 1,040 feet to Norris property beyond Friendship Lane. The project will serve 11 existing homes, and a 24-unit residential development under construction. Developer will construct an additional 910 feet of sidewalk (not part of this project) connecting the project’s southern terminus to the Buck Hill Road intersection.</td>
<td>$120,500</td>
</tr>
<tr>
<td>(Amendment FY17-3)</td>
<td></td>
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</tbody>
</table>

Staff Recommendation: Recommend that the TAC approve the proposed TIP amendments.

For more information, contact: Christine Forde
cforde@ccrpcvt.org or 846-4490 ext. *13
CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION
TRANSPORTATION ADVISORY COMMITTEE - MINUTES

DATE: Tuesday, October 4, 2016
TIME: 9:00 a.m.
PLACE: CCRPC Offices, 110 West Canal St. Winooski, VT

Members Present
Brian Bigelow, Underhill
Justin Rabidoux, South Burlington
Eric Wells, Milton
Amy Bell, VTrans
Dick Hosking, VTrans D5
Ashley Bishop, VTrans D5
Dennis Lutz, Essex
Katherine Sonnick, Jericho
Dean Pierce, Shelburne
Barbara Elliot, Huntington
Chris Jolly, FHWA
Sandy Thibault, CATMA
Bruce Hoar, Williston

Staff Present
Eleni Churchill, Transportation Program Manager
Christine Forde, Senior Transportation Planner
Charlie Baker, Executive Director
Sai Sarepalli, Transportation Planning Engineer
Bryan Davis, Senior Transportation Planner
Jason Charest, Senior Transportation Planning Engineer
Marshall Distel, Transportation Planner
Chris Dubin, Transportation Planner
Peter Keating, Senior Transportation Planner

Others Present
Dave Pelletier, VTrans
Bruce Nyquist, VTrans
John Choate, Winooski
Darlene Palola, Huntington

Peter Keating noted that TAC Chair Bryan Osborne would not be able to make it to today’s meeting. With some new attendees present Peter asked for a round of introductions.

1. Consent Agenda
N/A this month.

2. Approval of Minutes
AMY BELL MADE A MOTION TO APPROVE THE MINUTES OF September 6, 2016. THE MOTION WAS SECONDED BY DENNIS LUTZ AND PASSED UNANIMOUSLY WITH ERIC WELLS ABSTAINING. It was then noted that Bruce Hoar had been in attendance at the September meeting so the minutes were revised to reflect that. The TAC reapproved the minutes as revised.

3. Public Comments
There were none.

4. Malletts Bay Stormwater Project Consultant Selection
Eleni Churchill noted that this was a solicitation for qualified firms to develop a comprehensive stormwater management system for Malletts Bay and its upland watersheds, along with conducting scoping studies for pedestrian/bike improvements on West Lakeshore Drive between Prim Road and Blakely Road and capacity improvements at the signalized intersection of East/West Lakeshore Drive and Blakely Road. Eleni noted that this is a FY17 UPWP task and the proposal review committee would be meeting this Thursday to come up with a recommendation on which firm to hire. Since they want to get the project moving, she’s asking the TAC to grant the review committee the hiring decision. Dennis remarked that there was quite a variety of tasks in this project and not all appeared transportation related. Charlie said they in discussions with Town staff they were careful to only fund the stormwater tasks related to transportation. Eleni also pointed out that given the diversity of work, the proposals reflected this in the teams that were put together to bid on the work. BARBARA ELLIOT MADE A MOTION THE TAC PERMIT THE EVALUATION COMMITTEE TO MAKE THE DECISION ON WHICH
CONSULTANT TO HIRE FOR THIS WORK. THE MOTION WAS SECONDED BY DENNIS LUTZ AND PASSED UNANIMOUSLY.

5. Strategic Highway Safety Plan
Bruce Nyquist of VTrans attended to provide an update on this federally mandated plan. Bruce started with a number of graphs displaying information related to crashes. Most showed rolling 5 year averages that went back to 2004 in order to reveal any trends. Data on number of crashes, lane departure crashes, improved intersection designs, younger and older driver safety, speed and aggressive driving, occupant protection, impaired driving, distracted driving, medium/heavy vehicle crashes and motorcycle safety, all revealed positive trends from 2004 through 2014. The data on work zone crashes and vulnerable user safety were negative or flat over the same time period. VTrans is in the process of updating the plan and has identified the following critical emphasis areas for 2017 through 2021:

1. Improve Infrastructure
   a. Minimize Lane Departure
   b. Improve the Design and Operation of Highway Intersections
2. Curb Speeding and Aggressive Driving
3. Increase Use of Occupant protection
4. Vulnerable Users
   a. Increase Pedestrian Safety
   b. Increase Bicycle Safety
   c. Increase Motorcycle Safety
5. Age Appropriate Solutions
   a. Improve Younger Driver Safety (Under 25)
   b. Improve Older Driver Safety (65 and older)
6. Reduce Impaired Driving
7. Curb Distracted Driving and Keep Drivers Alert

The plan will also recognize these two items as significant emphasis areas:
1. Reduce Medium/Heavy Vehicle Crashes
2. Reduce Work Zone Crashes

Other issues discussed following Bruce’s presentation included:
- According to NHTSA over 90% of crashes result from human error
- The SHSP will also include the federally required safety performance targets
- Some of the state level data presented can be broken out by smaller geography
- Autonomous vehicle impacts
- The correlation between rising VMT and rising crashes

6. Shelburne Form Based Code Consultant Selection
Peter distributed a revised memo on this project noting that the evaluation committee had met and recommended the TAC approve the CCRPC contract with Brandy Sexton of PlaceSense and her team for this work. Dean Pierce added additional background information about the project. JUSTIN RABIDOUX MADE A MOTION THE TAC APPROVE HIRING PLACESENSE FOR THE SHELBURNE FORM BASED CODE PHASE 2 WORK. THE MOTION WAS SECONDED BY BRUDE HOAR AND PASSED UNANIMOUSLY.

7. CIRC ROW Management Plan
Dave Pelletier of VTrans referenced a recently completed report on this project in order to give the TAC some if its highlights. The report begins with a history of the project before getting into the goals of this report, which include:
- Adhering to state and federal investment requirements
- Maintaining parcels with existing or potential transportation functions
• Supporting goals of other state and local programs
• Creating revenue where appropriate/viable, and
• Selling surplus property

The report then goes into the establishment of an Alternative Use Working Group consisting of VTrans staff with input from CCRPC and local staff and offers a list of allowable uses for the right-of-way (ROW). The rest of the report contains inventories of each CIRC segment and the project mitigation sites. In response to discussion that followed VTrans agreed to give towns access to their GIS map viewer that provides easy to access to the report’s information and to develop a process on how to address proposals for new uses in the ROW.

8. Active Transportation Plan (ATP) Update

Peter presented updated information on this project since his last report this past spring. He noted that the project is nearing completion with a draft plan available for public comment. He noted that the main ATP focus was on:
• Improving network connectivity, closing gaps; and that
• Facility types are context-sensitive and will be developed project by project in future phases

He also briefed members on the plan contents by chapter and focused on how the recommended network came from a GIS exercise that considered: Crossing known barriers, trip origins and destinations and past planning for bike/ped facilities. Peter then explained that priorities and feasibility were determined using factors such as, proximity to schools and transit, addressing bike/ped crash locations, gaps that currently exist for both walkers and cyclists, project readiness, and ROW/lane/parking impacts. He briefly described a few of the projects that rated high for both feasibility and priority and mentioned some of the non-infrastructure and short term recommendations. He concluded with the Plan’s next steps:
• Final public engagement and outreach – through Front Porch Forum and Local Walk/Bike Committees
• Formatting the report for improved readability; and then
• Return to TAC and Board in November for their approvals

Dick Hosking pointed out the narrowing of the ROW width on VT RT 117 in Jericho.

9. Status of Projects and Subcommittee Reports

Peter directed TAC members to the project list on the back of the agenda page and asked if members had any questions. Jason reminded members of the rMoves app to track trip making that he reported on last meeting.

10. CCRPC September Board Meetings Report

Peter mentioned the Board’s ATP update and a schedule to update the Metropolitan Transportation Plan/ECOS Plan.

The meeting adjourned at 10:30 a.m.

Respectfully submitted,

Peter Keating
CCRPC Transportation Advisory Committee
11/01/2016
Agenda Item 6: Information Item
Future Population Forecasts

Issue

The November TAC meeting will be the initial introduction to the topic of future population forecasts. Additional information, including municipal level projections, will be provided at future meetings.

Vermont Statute requires that all plans shall be based upon surveys of existing conditions and probable future trends, and shall be made in the light of present and future growth and requirements (24 VSA §4302(d)). Therefore, CCRPC has historically prepared future demographic projections for the Regional Plan and the Metropolitan Transportation Plan. As we prepare for the 2018 update of the ECOS Plan, we need to yet again set the County’s population, housing, and employment projections. More specifically, projections are needed as inputs to the Energy Plan and the update to the Travel Demand Model which will have implications for the MTP.

In previous iterations of approving projections, the CCMPO/CCRPC have agreed that forecasts should describe the future as we expect it to be, not as what we want it to be. Essentially, projections are a necessary planning tool, but we don’t necessarily need to be tied to the specific future that they prescribe.

We have recently contracted with RSG to update our model and they have subcontracted with Economic & Policy Resources (EPR) for the purpose of updating the demographic forecast that feeds into the Travel Demand Model.

At the same time, we are starting work on the Regional Energy Plan which is using a different population projection. Both of these projections are different from our ECOS Plan projections (see next page).

As seen in the table below, the projection estimates are different due to the types of methodology employed to arrive at these estimates. EPR’s initial forecast is derived statistically from the June 2016 Vermont Statewide Population Consensus Forecast Prepared by the Legislative Joint Fiscal Office-Shumlin Administration that was employed in the most recent VTrans Long-Range Transportation Plan update. ACCD’s projections are based on the mortality, birth rate and migration rate from 1990 to 2000. A complete methodology for the ACCD projections can be found [here].

<table>
<thead>
<tr>
<th></th>
<th>2010 Census</th>
<th>2015¹</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR</td>
<td>156,545</td>
<td>161,382</td>
<td>163,569</td>
<td>166,837</td>
<td>169,537</td>
<td>N/A</td>
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<tr>
<td>VEIC/ACCD</td>
<td></td>
<td>165,690</td>
<td>171,718</td>
<td>N/A</td>
<td>186,890*</td>
<td></td>
</tr>
</tbody>
</table>

¹-Census Population Estimate
* - VEIC extended the ACCD projections out to 2050. The estimate for 2050 is not part of the actual ACCD projection estimate.
For your information, our current ECOS Plan projections are:

<table>
<thead>
<tr>
<th></th>
<th>2010 Census</th>
<th>2015</th>
<th>2025</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>156,545</td>
<td>164,170</td>
<td>184,694</td>
<td>205,445</td>
</tr>
<tr>
<td>Housing</td>
<td>61,827</td>
<td>65,693</td>
<td>74,987</td>
<td>83,020</td>
</tr>
<tr>
<td>Employment</td>
<td>122,248</td>
<td>133,864</td>
<td>151,854</td>
<td>171,783</td>
</tr>
</tbody>
</table>

Source: 2013 Chittenden County ECOS Plan, 2011 Woods and Poole Forecast for Chittenden County- Adopted by CCRPC 9/2011

**Staff Recommendation:** There is no recommendation at this time.

**For more information, contact:** Melanie Needle  
mneedle@ccrpcvt.org or 846-4490 ext. *27
CCRPC Transportation Advisory Committee
11/01/2016
Agenda Item 7: Information Item
Chittenden County Regional Energy Plan

This document provides a brief description of the major project milestones scheduled to take place over the next 18 months to guide the development of the Chittenden County Regional Energy Plan. Staff will provide an overview presentation of the Regional Energy Plan at the TAC meeting.

Background
In agreement with the Department of Public Service (DPS) and Bennington County RPC, CCRPC is working on developing an enhanced Regional Energy Plan that will ultimately become a section in the 2018 Chittenden County ECOS Plan. The purpose of this work is to develop a detailed energy plan to advance the State's Comprehensive Energy Plan goals and at the same time ensure that local and regional land use policies are being applied in the Public Service Board’s (PSB) section 248 proceedings. Additionally, Act 174 (passed in 2016) requires all regional planning commissions to go through an enhanced regional planning process regarding energy planning to prepare for the PSB giving regional plans “substantial deference” in Section 248 proceedings.

Schedule Overview
➤ October 1, 2016: Report on current level of energy use within the region across all sectors, Develop base year, 2025, 2035, and 2050 milestones for changes in the demand for the various sources of energy – including increasing use of alternative energy sources for each sector. VEIC’s LEAP modeling analysis will play a leading role.
➤ December 15, 2016: Draft Energy Resource Maps due to DPS
➤ May 31, 2017 : First draft of the energy plan due to DPS Plan will include the energy data, LEAP-based forecasts, and maps completed over the next few months as well as strategies and pathways for conservation, efficiency, and use of alternative energy/fuel sources for the thermal, transportation, and electricity sectors.
➤ July – December 2017: Review of the draft plans within our region, making revisions (and coordinating with PSD), and producing final draft plans by December. The PSD expects the process for adoption to be underway by February of 2018.

For more information contact: Melanie Needle, mneedle@ccrpcvt.org or 845-4490 ext. *27