



TRANSPORTATION ADVISORY COMMITTEE

Tuesday, March 28, 2017, 6:30 p.m.

Central Vermont Regional Planning Commission Office
29 Main Street, Suite 4, Montpelier

6:15 pm - Social & Pizza

*Action Item

Page **AGENDA**

- 6:30 Introductions**
- Adjustments to the Agenda**
- Public Comments**
- 3 **6:35 Approve February 28 TAC Minutes** (enclosed)*
- 4 **6:40 VTrans TAC Survey** <https://www.surveymonkey.com/r/9PBY6KZ> We encourage all Towns and TAC members to fill out this survey before the meeting.
- 11 **7:00 Vote on February District Leveling and Town Highway Bridge Ranking***
- 13 **7:05 Project Prioritization and Conformance with Regional Plan Policies**
- FY19 Capital Program Projects Prioritization** (enclosed)*
- <http://centralvtplanning.org/programs/transportation/transportation-priorities/>
- 17 **8:00 Transportation Updates** (enclosed)
An opportunity for TAC members to ask questions about the updates.
- 8:10 TAC Member Concerns**
Roundtable for any issues, questions, and town updates from TAC members.
- 8:25 Set Agenda for the Future TAC Meeting**
- 8:30 Adjourn**

Future TAC Meeting Agendas

Below is a preview of upcoming TAC meeting agendas for consideration by the TAC.

April 25

- Highway Functional Classification Updates
- Exit 63 Park and Ride Presentation

CENTRAL VERMONT REGIONAL PLANNING COMMISSION
Transportation Advisory Committee (TAC)

DRAFT Minutes

February 28, 2017

Central Vermont Regional Planning Commission Office

Attendees:

	Barre City: Scott Bascom		Northfield: Jeff Schultz
	Barre Town: Harry Hinrichsen	X	Orange: Lee Cattaneo
X	Berlin: Robert Wernecke	X	Plainfield: Bob Atchinson
	Cabot: Kevin Lehoe		Roxbury: Gerry D'Amico
	Calais: David Ellenbogen	X	Waitsfield: Don La Haye
	Duxbury: Vacant	X	Warren: Jim Sanford
X	East Montpelier: Frank Pratt		Washington: Ray McCormack
X	Fayston: Kevin Russell	X	Waterbury: Steve Lotspeich, Chair
	Marshfield: Vacant		Williamstown: Larry Hebert
X	Middlesex: Ronald Krauth		Woodbury: Vacant
X	Montpelier: Dona Bate		Worcester: Bill Arrand
X	Moretown: Joyce Manchester	X	Staff: Bonnie Waninger, Dan Currier

Guests: Amy Bell (VTrans), Kristine Keeney (MRVPD)

Chair S. Lotspeich called the meeting to order at 6:34pm. Introductions were completed.

Adjustments to the Agenda

None.

Public Comments

None.

Approve September TAC Minutes

B. Atchinson *moved to approve the minutes as written; D. LaHaye seconded. Motion carried.*

TAC Rules of Procedure

The TAC reviewed the Rules of Procedures document and discussed that a quorum of the TAC is 12 members present. Therefore no official action can be made on agenda items with only 11 members in attendance tonight, all votes unless 12 members are present would be a consensus vote needing to be approved by CVRPC Commissioners at their March 2017 meeting.

TAC member recommended that the Rules of Procedures be passed onto the Commission for approval.

1 **District Leveling Prioritization**

2 D. Currier provided background on the project prioritization process and presented the seven district
3 leveling projects for review tonight. These included segments of:

- 4 • VT 214 in Plainfield
- 5 • VT12 in Middlesex and Worcester
- 6 • VT14 in East Montpelier, Calais, and Woodbury
- 7 • VT110 in Barre Town and Orange
- 8 • VT100B in Moretown
- 9 • US2 in Moretown and Middlesex

10 Amy Bell reminded the TAC that the type of paving being done under this program is not a full paving
11 job, nor is it a long term fix. It is a preventative maintenance treatment to help prolong the life of the
12 road and existing pavement. The TAC discussed that the winter has been very hard on roads with the
13 freeze and thaw cycle really impacting Central Vermont road quality. TAC members wanted to know what
14 to do about road segments not on the list, that are in worse condition than others. Some felt that we
15 should not add any more projects and just leave the list as is. TAC reps from Waitsfield, Warren, Fayston
16 and K. Keeney staff from MRVPD all voiced their desire to add VT 17 in Fayston to the list of roads being
17 considered for this treatment. TAC members wonder if this type of paving is what the road really needs
18 perhaps adding it for consideration as a roadway project is a better match to help address the real
19 problems. TAC members felt that ranking VT 17 in the top three was reasonable. The following ranking
20 was suggested:

- 21 1) VT100B in Moretown
- 22 2) VT 17 in Fayston
- 23 3) VT110 in Barre Town and Orange

24 And then using the VTrans pavement ranking from there.

25 *R. Wernecke moved to approve the suggested ranking; D. LaHaye seconded. Motion carried with eight in*
26 *favor and 3 opposed.* This ranking under the consensus vote will be presented to CVRPC Board of
27 Commissioners on March 14th for approval as the official CVRPC ranking of the district leveling projects.

28

29 **Town Highway Bridge Pre-Candidate Prioritization**

30 D. Currier provided background on the project prioritization process and presented the fifteen Town
31 Highway Bridge Pre-Candidate under review tonight. These included bridges in the towns of:

- 32 • Duxbury
- 33 • Fayston
- 34 • Marshfield
- 35 • Montpelier
- 36 • Moretown
- 37 • Northfield
- 38 • Plainfield
- 39 • Waitsfield
- 40 • Waterbury

1 TAC members reviewed each bridge under consideration and identified the top eight bridges for
 2 prioritization. The ranking is as follows:

RPC Pre-Candidate Ranking 2017	Town Name	Route	Bridge Number
1	MONTPELIER	USBR2 (State St)	0B2-1
2	NORTHFIELD VILLAGE	VT12 (Main St)	00060
3	MORETOWN	C2001 (Moretown Mountain Rd)	00021
4	FAYSTON	C2001 (North Fayston Rd)	00006
5	MONTPELIER	US2	00064
6	MONTPELIER	C30GR (Grout Rd)	00015
7	PLAINFIELD	C2002 (Brook Rd)	00021
8	NORTHFIELD	C3057 (Rabbit Hollow Rd)	00065

3 *K. Russell moved to approve the suggested ranking; J. Sanford seconded. Motion carried.* This ranking
 4 under the consensus vote will be presented to CVRPC's Board of Commissioners on March 14th for
 5 approval as the official CVRPC ranking of Town Highway Bridge Pre-Candidate.

6 **Transportation Updates**

7 D. Currier added one update not printed in the packet which was that Mark Sousa has been appointed
 8 Green Mountain Transit General Manager.

9

10 D. Currier encouraged everyone to complete the VTrans On-Road Bicycle Plan Phase II Survey.

11

12 B. Atchinson endorsed the Living with Rail report and recommended everyone read it.

13

14 **TAC Member Concerns**

15 S. Lotspeich discussed the Waterbury Main St reconstruction project that will start in 2018.

16 R. Wernecke talked about a presentation that VTrans gave to the Berlin Selectboard regarding building a
 17 temporary Interstate off ramp that would use some of their local roads while two Interstate bridges are
 18 under constructions.

19

20 **Set Agenda for the Future TAC Meeting**

21 No discussion

22

23 **Adjourn**

24 The meeting adjourned at 8:33 pm.

25

TAC Member Survey

To: Regional Planning Commission Transportation Advisory Committee (TAC) Representatives

As part of an effort to evaluate the Transportation Planning Initiative program (TPI) of the Vermont Agency of Transportation (VTrans), we are seeking input from TAC representatives through this survey. In particular, we would like to better understand how the TPI program is functioning from your perspective, and where there may be opportunities for improvement.

About the TPI. The TPI provides funding and resources to Vermont's Regional Planning Commissions (RPCs) to engage in regional transportation planning activities that will increase communication and coordination with municipalities, and enable VTrans to better target transportation investments to meet local and regional needs. The program began in 1993 with the following expectations for RPCs:

- Develop a comprehensive transportation plans at the regional level
- Provide transportation planning support and resources to towns
- Develop a collaborative and cooperative transportation planning relationship between VTrans, municipalities and regions
- Provide technical assistance to municipalities in transportation and related areas, such as stormwater, parking or traffic safety.

About the TAC. The success of the TPI is in part due to the connections that RPC staff has with their communities, and the communication that flows between the VTrans, RPC, municipalities and public. The TACs play a key role in informing RPC staff and ultimately VTrans about local issues that could erupt into conflicts; and asserting local and regional priorities for funding of projects. This TAC member survey is being conducted to check in with TAC members to gauge how well the TPI is meeting the program's primary goals:

- Bring public input into transportation decisions
- Developing a regional transportation plan that can be used to plan and prioritize projects
- Developing expertise at the RPC's for transportation planning
- Increase citizen knowledge and participation in transportation issues
- Disseminating information to the community and public via RPC staff or TAC representatives
- Reinforce coordination of local, regional and state agency plans

The survey will also be helpful in developing recommendations for "best practices" to ensure continuing productive TAC involvement and engagement. In addition, the information collected will be compared with TAC survey results collected in a 2002 survey of TACs to understand how the TPI and TAC has evolved. An online survey is available if preferred. The survey should take approximately 15 minutes, and your responses will be very much appreciated.

Please answer the following questions, and return the completed survey to your RPC, or by mail to:

Lucy Gibson, DuBois & King Inc., 28 North Main St, Randolph, VT 05060

Thank you!

Questions

1) Which RPC TAC are you involved with?

- | | | |
|---|--|--|
| <input type="checkbox"/> Addison County RPC | <input type="checkbox"/> Lamoille Cty PC | <input type="checkbox"/> Southern Windsor Cty RPC |
| <input type="checkbox"/> Bennington Cty RC | <input type="checkbox"/> Northeastern VT Dev Ass | <input type="checkbox"/> Two Rivers-Ottawaquechee RC |
| <input type="checkbox"/> Chittenden Cty RPC | <input type="checkbox"/> Northwest VT RPC | <input type="checkbox"/> Windham Regional Com |
| <input type="checkbox"/> Central VT RPC | <input type="checkbox"/> Rutland Regional PC | |

2) Do you have other involvement with your RPC?

- Regional commissioner
- RPC Subcommittee
- RPC executive committee
- Other _____

3) Who do you represent on the TAC?

- | | |
|---|---|
| <input type="checkbox"/> Municipality | <input type="checkbox"/> Aviation |
| <input type="checkbox"/> Transit agency | <input type="checkbox"/> Housing |
| <input type="checkbox"/> Bicycle and/or pedestrian organization | <input type="checkbox"/> Environmental |
| <input type="checkbox"/> Economic development organization | <input type="checkbox"/> Senior Citizens/Council on Aging |
| <input type="checkbox"/> Rail | <input type="checkbox"/> Other _____ |

4) What is your role in your municipality or organization?

- Staff _____ (title)
- Elected official
- Appointed board member
- Volunteer
- Other _____

5) What is the population size of your community?

- Less than 1,000
- 1,000-2,499
- 2,500-5,000
- Greater than 5,000

6) How long have you been a member of the TAC?

- Less than 2 years
- 2 to 5 years
- 5 to 10 years
- More than 10 years

7) How often does your TAC meet?

- 10+ times / year
- 6-9 times /year
- 5 or fewer times /year)
- Don't know

8) How often do you attend?

- Never
- Attend occasionally
- Attend about half of the meetings
- Attend most meetings

9) In your opinion, is the TAC meeting frequency

- too infrequent
- too often
- about right

10) How often do you engage with your RPC outside of TAC activities?

- Never
- Occasionally (1-3 times per year)
- Frequently (4 or more times per year)

11) How often do you report back to your community about TAC activities?

- Never
- Occasionally (1-3 times per year)
- Frequently (4 or more times per year)

12) For those who report back to your communities, please elaborate on who you report to (selectboard, municipal staff), and how this is done (by e-mail, at meetings)?

13) Do you agree with the following statement?

"During the time that I have served on the TAC, the TAC influenced decisions about transportation policy and/or projects."

- Strongly Agree
- Agree
- No Opinion/not sure
- Disagree
- Strongly disagree

14) Are you satisfied with the amount of influence that the TAC has on the following areas? Choose 1 through 5, with 1 being Not Satisfied (i.e. not enough influence) and 5 being Satisfied (i.e. the TAC has a reasonable influence). Select “n/a” if the TAC has not considered that topic.

State Policies	1	2	3	4	5	n/a
Regional Policies	1	2	3	4	5	n/a
VTrans Project Priorities	1	2	3	4	5	n/a
Project Design Decisions	1	2	3	4	5	n/a
Road / Highway Projects	1	2	3	4	5	n/a
Bridge Projects	1	2	3	4	5	n/a
Bicycle/Pedestrian/Streetscape	1	2	3	4	5	n/a
Public Transit Projects / Services	1	2	3	4	5	n/a
Freight Projects	1	2	3	4	5	n/a
Rail Projects	1	2	3	4	5	n/a
Aviation Projects	1	2	3	4	5	n/a
Travel Demand Management Initiatives	1	2	3	4	5	n/a
Park and Ride Projects	1	2	3	4	5	n/a

15) What are the most important benefits that participation on the TAC brings to your organization or municipality? Rank the following 1 through 5, with 1 being not important and 5 being very important. Chose “n/a” if the item does not pertain to you/your TAC.

Knowledge of upcoming transportation projects	1	2	3	4	5	n/a
Information on funding opportunities	1	2	3	4	5	n/a
Access to Technical Assistance	1	2	3	4	5	n/a
Awareness of emerging issues	1	2	3	4	5	n/a
Technical assistance that pertains to your community	1	2	3	4	5	n/a
Input on project prioritization	1	2	3	4	5	n/a
Getting projects completed successfully	1	2	3	4	5	n/a
Advocacy for local projects and funding	1	2	3	4	5	n/a
Assistance on funding requests or applications for the town	1	2	3	4	5	n/a
Opportunity for conversation with knowledgeable people from State, RPC and other towns	1	2	3	4	5	n/a
Other _____	1	2	3	4	5	n/a

16) What is your overall level of satisfaction with the TAC? Choose 1 if you are not satisfied, and 5 if you are highly satisfied. Please comment on your response below.

1 2 3 4 5 n/a



MEMO

Date: March 21, 2017

To: Board of Commissioners

From: Daniel Currier Program Manager

Re: TAC Project Prioritization Vote

On February 28, 2017 the TAC began the project prioritization process by reviewing and ranking the District Leveling and Town Highway Bridge projects. The TAC members present agreed on a ranking for both sets of projects. Because the TAC lack of quorum (12 members present) they could not approve the ranking as CVRPC's official project prioritization list.

Now the TAC members are being asked to vote on the below ranking and make this CVRPC official ranking for District Leveling and Town Highway Bridge projects for 2017.

District Leveling

RPC Ranking FY 2018	Town	Road Name	Project Miles
1	MORETOWN	V100B	1.5
2	FAYSTON	V017	5.9
3	BARRE TOWN/WASHINGTON	V110	4.1
4	PLAINFIELD	V214	2.061
5	CALAIS	V014	5.4
6	MORETOWN	U002	6.7
7	MIDDLESEX	V012	6
8	BARRE TOWN	V014	6

Town Highway Bridge

RPC Pre-Candidate Ranking 2017	Town Name	Route	Bridge Number
1	MONTPELIER	USBR2 (State St)	0B2-1
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MEMO

Date: March 21, 2017

To: Transportation Advisory Committee

From: Daniel Currier Program Manager

Re: Project Prioritization

The Central Vermont Regional Planning Commission Transportation Advisory Committee (TAC) has been evaluating and prioritizing transportation projects in the Region for more than 20 years. The intent of the evaluation process is to determine how well projects correspond with the priorities established in the Regional Transportation Plan. The regional TAC prioritize the lists provided by VTrans. This annual “Project Prioritization” process is carried out between January and March each year. The type of projects prioritized include paving, bridge (Town and State), roadway, safety & traffic operations (intersection design), park & ride, and bicycle/pedestrian.

The State’s ranking process is based on engineering factors such as sufficiency ratings, vehicle per mile impacts, cost-benefit ratios, and project development momentum. These are the types of data specific criteria that you would expect an Agency of Transportation (AOT) to consider when developing project rankings. Their factors constitute 80% of the total ranking process.

The regional planning commission’s factors contribute 20% to this ranking process. This was born from the idea that not all public policies and priorities could be captured by engineering factors and that there is a greater community context beyond that road, bridge, or park-and-ride.

Capital Program Projects

In order for VTrans to spend funds on a project it must be listed in the Transportation Capital Program. VTrans submits a Capital Program to the legislature each year and the legislature must approve the list in order for projects to advance. The Capital Program categorizes projects according to the following status:

Candidate – A project gets on the Candidate list after it has completed the planning process and has been accepted by CVRPC and passed onto VTrans.

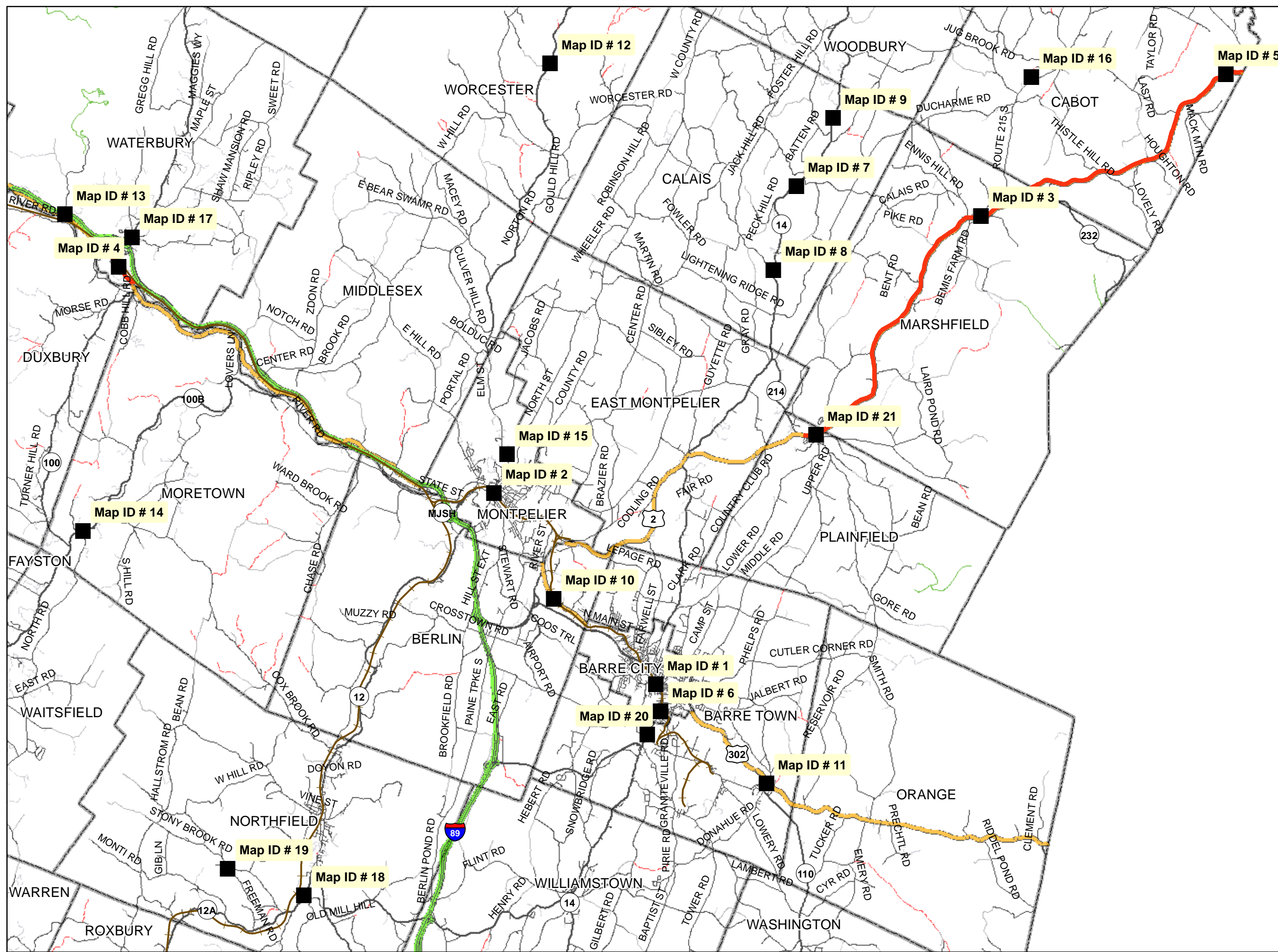
Development & Evaluation (D&E) – A project moves from the Candidate list to the Development & Evaluation list if preliminary plans are expected within 12 to 24 months.

Front-of-the-Book (FOB) – Front-of-the-Book projects are part of VTrans four-year program. A project moves from the Development & Evaluation list to Front-of-the-Book when it has completed preliminary plan development.

CVRPC FY 19 Capital Program Project Priorities (Paving, Bridge, Roadway, Traffic and Safety)

Map ID	FY 16 Ranking Approved 3/22/16	FY 17 Ranking	Project #	VTrans Project Type/Status	Town Name	Project Number	PROJECT DESCRIPTION	Project Status
Paving								
1			16V185	Front Of Book	BARRE CITY	STP 2961(3)	Install Active Signal Warning System for Rail Crossing # DOT 837-353C located at MM 0.95 on VT 14 in Barre City, and MP 8.11 on the Washington County Railroad.	Project under development. Construction funds to be identified in future fiscal year.
2			16V140	Front Of Book	MONTPELIER	STP 2950(2)	Reconstruction of the Washington County Railroad, Montpelier-Barre Subdivision, at-grade rail-highway grade crossing AAR DOT # 837-323K which crosses Main Street in Montpelier.	Anticipated Advertising Schedule : 03/14/2018
3			16V113	Front Of Book	PLAINFIELD-DANVILLE	NH PS19(1)	Resurfacing along US 2 from Plainfield MM 0.987 to Danville MM 1.755.	Project under development. Construction funds to be identified in future fiscal year.
Roadway								
4	1		85B006	Front Of Book	WATERBURY	FEGC F 013-4(13)	RECONSTRUCTION OF MAIN ST IN VILLAGE OF WATERBURY BEGINNING 0.04 MILE EAST OF VT100 NO. INTERSECTION EXTENDING EASTERLY 0.98 MILE.	Anticipated Advertising Schedule : 11/22/2017
5	5		78D348	Front Of Book	CABOT-DANVILLE	FEGC F 028-3(26)C/3	RECONSTRUCTION OF US2 IN CABOT AND DANVILLE, BEGINNING 5.29 MILES EAST OF THE MARSHFIELD-CABOT T/L AND EXTENDING EASTERLY 1.29 MILES.	under development. No ROW Plans. Construction funds to be IDed in future FY
6			83D106	Front Of Book	BARRE CITY-BARRE TOWN	MEGC M 6000(11)	RECONSTRUCTION OR RELOCATION OF THE VT14/QUARRY ST. INTERSECTION AND QUARRY HILL RD.	Project under development. Construction funds to be identified in future fiscal year.
State Bridge								
7	2		12B148	Front Of Book	CALAIS	BHF 037-2(12)	REHABILITATION OF BRIDGE NO. 77 ON VT14 IN CALAIS, OVER KINGSBURY BRANCH.	Project under development. Construction funds to be identified in future fiscal year.
8	3		12B144	Front Of Book	CALAIS	BHF 037-2(10)	REPLACEMENT OF BRIDGE NO. 74 ON VT14 IN CALAIS, OVER PEKIN BROOK.	Project under development. Construction funds to be identified in future fiscal year.
9	4		12B146	Front Of Book	CALAIS	BHF 037-2(11)	REPLACEMENT OF BRIDGE NO. 82 ON VT14 IN CALAIS, OVER KINGSBURY BRANCH.	Project under development. Construction funds to be identified in future fiscal year.
10	5		13B254	D & E	BERLIN	BF 026-1(43)	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 3 ON US302 IN BERLIN, OVER THE STEVENS BRANCH.	no Project Status Report via Vtransparency->Project Status Report
11	7		12C576	Candidate	BARRE TOWN	BF 0169()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 21 ON VT110 IN BARRE TOWN, OVER JAIL BROOK.	No funding has been identified for design or construction.
12	8		86E053	Candidate	WORCESTER	BHF 0241()	WIDENING BR84 ON VT12 IN THE TOWN OF WORCESTER OVER THE NORTH BRANCH OF THE WINOOSKI RIVER	No funding has been identified for design or construction.
13	9		12C602	Candidate	WATERBURY	BF 0284()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 44 ON US2 IN WATERBURY, OVER THE LITTLE RIVER.	No funding has been identified for design or construction.
14			16B010	Front Of Book	MORETOWN	BF 0167(16)	Scoping to evaluate alternatives for bridge no. 2 on VT-100B in Moretown over Mad River	Project under development. Construction funds to be identified in future fiscal year.
Town Bridge								
15	1		13J082	Front Of Book	MONTPELIER	BO 1446(36)	REPLACEMENT OF BR13 ON CUMMINGS ST. IN MONTPELIER, OVER THE NORTH BRANCH OF THE WINOOSKI RIVER.	Project under development. Construction funds to be identified in future fiscal year.
16	2		12J612	Candidate	CABOT	BF 0249()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 7 ON FAS 0249 IN CABOT, OVER THE WINOOSKI RIVER.	No funding has been identified for design or construction.
17	3		93J040	Candidate	WATERBURY	BO 1446()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 36 ON TH2 (STOWE ST.) IN WATERBURY VILLAGE, OVER THATCHER BROOK.	No funding has been identified for design or construction.
18			12J644	Candidate	NORTHFIELD	BO 1446()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 68 ON TH96 IN NORTHFIELD, OVER THE DOG RIVER.	No funding has been identified for design or construction.
19			96J274	Candidate	NORTHFIELD	BO 1446()	SCOPING TO EVALUATE ALTERNATIVES FOR BRIDGE NO. 59 ON TH60 IN NORTHFIELD, OVER STONEY BROOK.	No funding has been identified for design or construction.
Traffic & Safety								
20	1		99D128	Front Of Book	BARRE TOWN	HES STPG 6100(6)	PROJECT IS FOR IMPROVEMENTS TO THE VT14/BRIDGE ST./STERLING HILL ROAD INTERSECTION IN SOUTH BARRE.	Project under development. Construction funds to be identified in future fiscal year.
21			14T184	Front Of Book	PLAINFIELD	NH 028-3(41)	Project is for improvements to the intersection of US Route 2 and Town Highway 1 (Main Street) in the Town of Plainfield.	Project under development. Construction funds to be identified in future fiscal year.

CVRPC TAC Capital Program Projects SFY 2019



Legend

Capital Projects

- Point Location
- Line Segment

CVRPC Transportation 2017

Source:
VTrans FY19 Capital Program
Projects for RPCs to Prioritize

Data is only as accurate as the
original source materials.
This map is for planning purposes.
This map may contain errors and omissions.



TRANSPORTATION UPDATES

March 22, 2017

These updates are aimed at keeping the TAC informed about potential modifications to State programs and practices that may affect transportation, CVRPC transportation initiatives, VT's Clean Water Act, and other news that may be of interest.

Measuring Access to Opportunity

The Governors' Institute on Community Design recently released a new resource on the data, tools, and methodologies transportation officials need to measure access to opportunity entitled, [The Why and How of Measuring Access to Opportunity: A Guide to Performance Management](#). The new guidebook provides a background on the changing priorities in transportation performance management, how some transportation agencies are already incorporating measures of access into their programs, and discusses the data and tools available to support measuring it.

Updated Orange Book (2017-2019)

There are a number of funding and technical assistance programs available to the local governments in Vermont. Due to the variety of these programs and the complexities of each, this may be a confusing area for elected or appointed officials in towns, cities and villages. This handbook is intended to provide a reference to aid in general understanding and to guide officials in their cooperative relationships with the Agency of Transportation.

<http://vtrans.vermont.gov/sites/aot/files/operations/TheOrangeBook.pdf>

Updated Rivers and Roads Training Manual

A training developed by Vermont ANR in cooperation with VTrans that explains the workings of rivers and how to design, construct and maintain roads and bridges to create greater river stability and more flood resilient transportation infrastructure. This training is geared toward municipal staff and road crews and provides three levels of training:

Introductory Level (Tier One) - Online training that provides a general awareness and understanding of river processes, aquatic habitat and how transportation infrastructure affects and is affected by river stability.

Intermediate Level (Tier Two) - Classroom and field based training that focuses on accommodating channel stability and minimizing impacts to aquatic habitat in design, construction and maintenance of transportation infrastructure.

Advanced Level (Tier Three) - Training in the use of the ANR Standard River Management Principles and Practices to select, design and oversee construction of projects involving river instability and crossing structure repair and/or replacement.

http://dec.vermont.gov/sites/dec/files/wsm/rivers/docs/2016_RiverAndRoadsFieldManual_booklet.pdf