PLANNING STUDY TO IMPROVE PEDESTRIAN CONNECTIVITY BETWEEN BOARDMAN STREET & HANNAFORD PLAZA

ALTERNATIVES PRESENTATION MEETING SEPTEMBER 26, 2022



Town of Middlebury | Addison County Regional Planning Commission | Dubois & King, Inc.

- Project Overview
- Kick-Off Meeting
- Existing Conditions
- Local Concerns Meeting
- Project Alternatives & Evaluations
- Alternatives Presentation Meeting
- Planning Study Report













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PROJECT GOAL:

Develop a Scoping
Study Report that
identifies and
evaluates
alternatives for
pedestrian
infrastructure
options along Rte 7
between Boardman
Street and
Hannaford Plaza for
the Town to consider
for future design
and construction.

Project funded through ACRPC Transportation Planning Initiative Grant.



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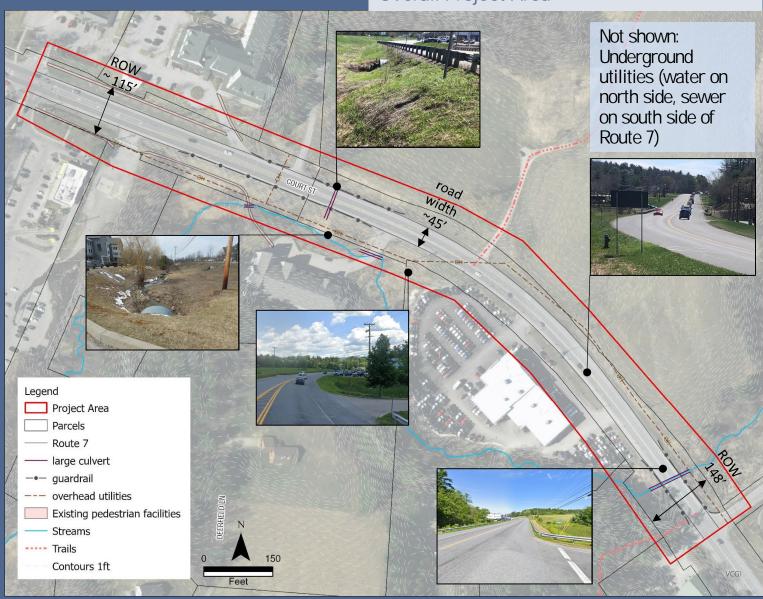
KICK-OFF MEETING:

- Attendees included representatives from the Town, ACRPC, VTrans, and D&K.
- Reviewed project scope, project area limits, schedule, and project logistics.



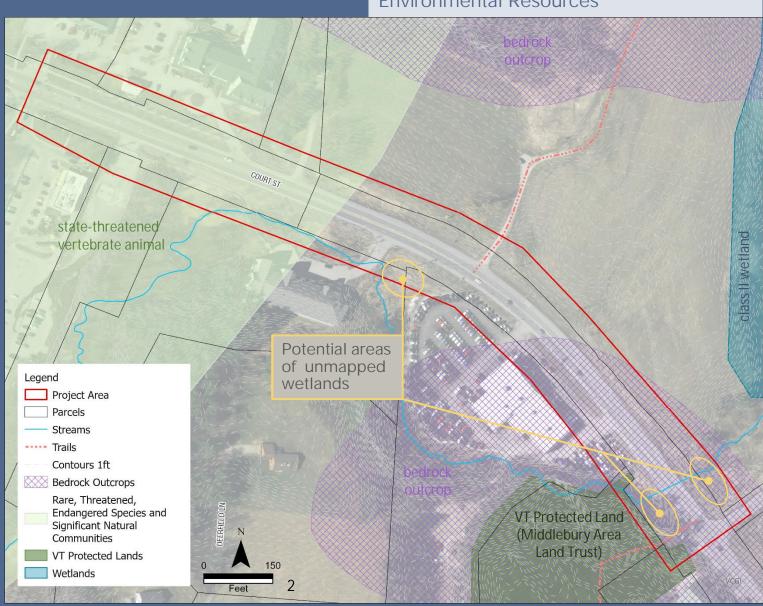
Existing Conditions: Overall Project Area

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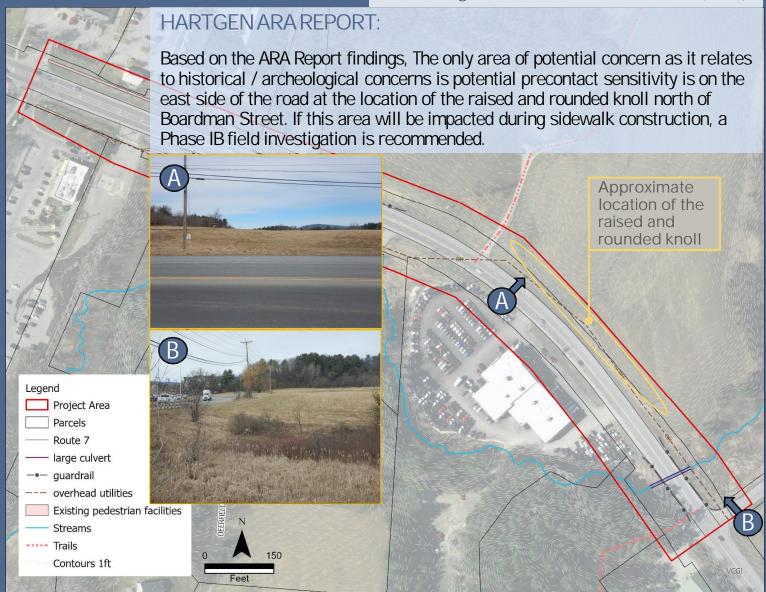
Existing Conditions: Environmental Resources

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Existing Conditions: Archeological Resource Assessment (ARA)

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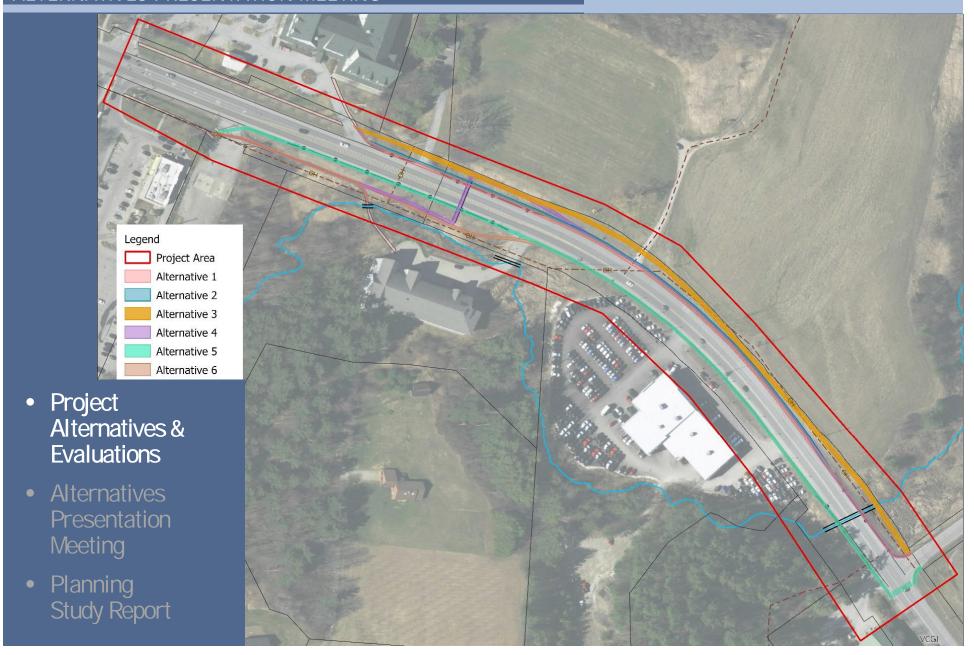
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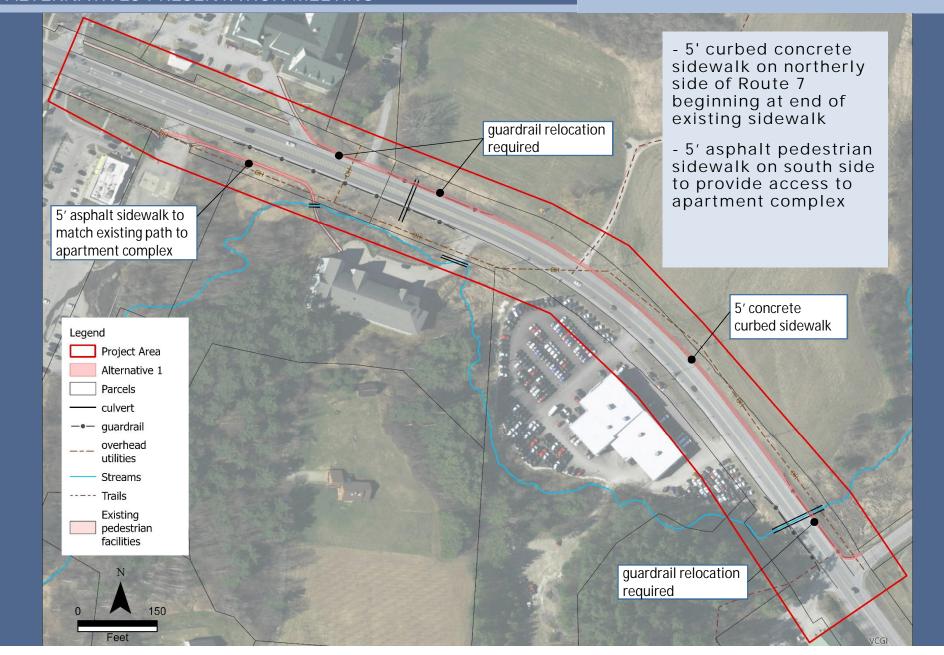
LOCAL CONCERNS MEETING:

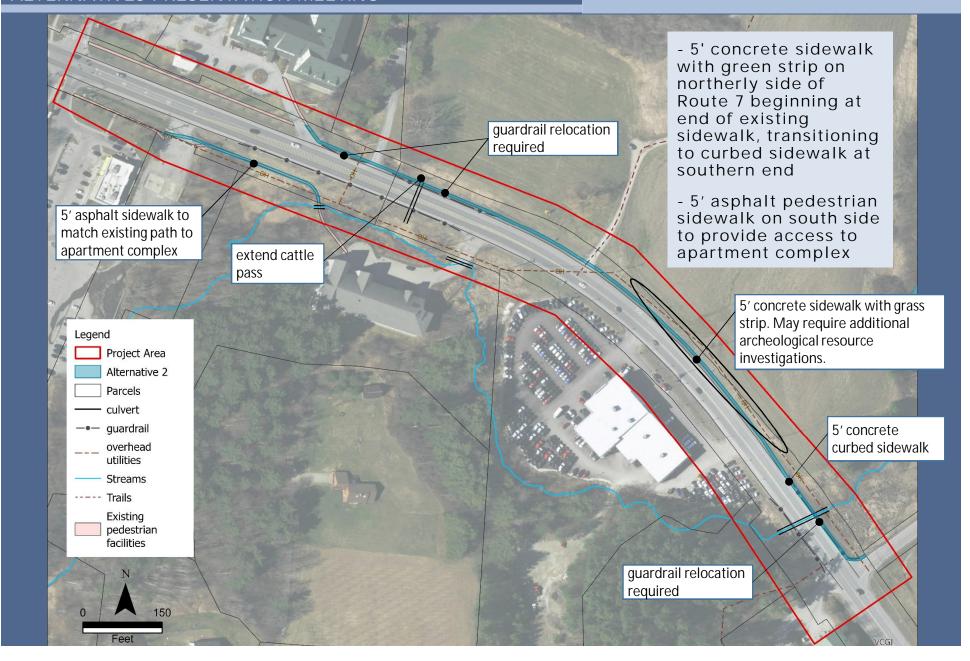
Public meeting to solicit public input on the

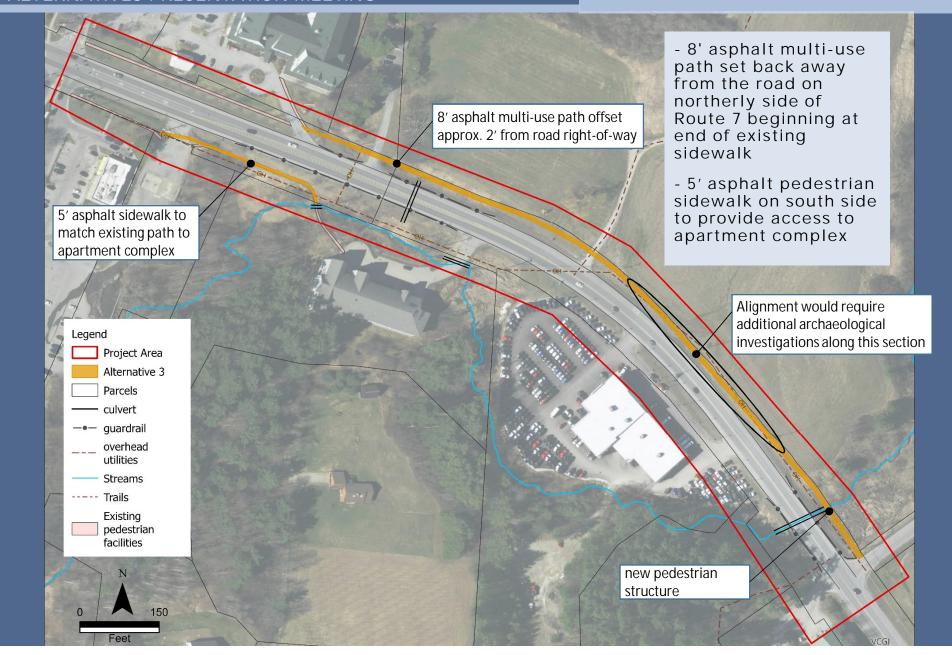
- interests,
- concerns, and
- thoughts on pros/ cons of the project area.

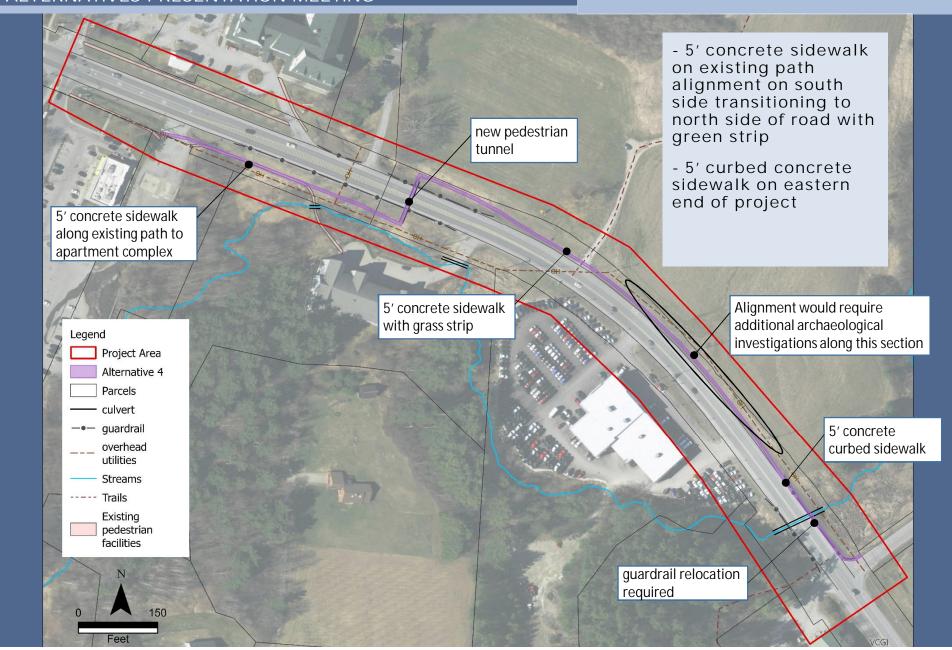


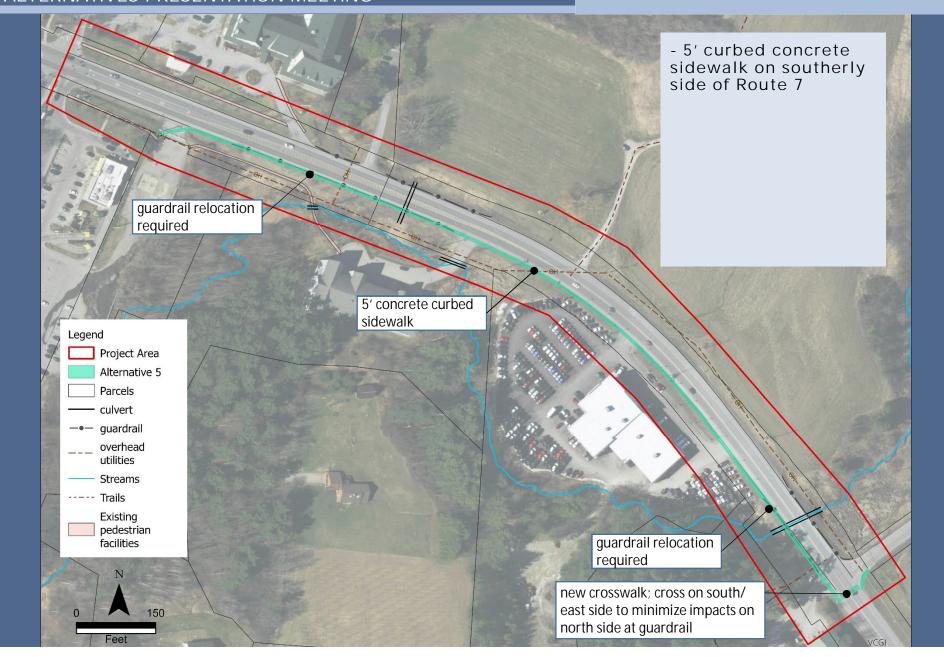


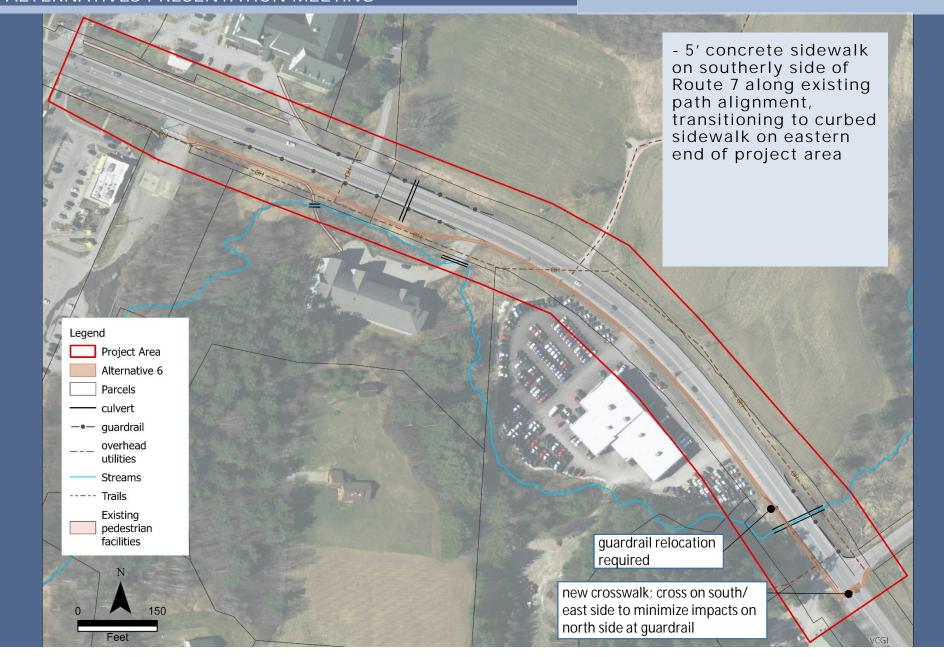












OPINION OF PROBABLE CONSTRUCTION COSTS

Project cost estimates based on VTrans	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6
guidance for linear foot sidewalk costs plus additional site-specific cost estimates. VTrans Report on Shared-Use Path and Sidewalk Costs, 2020 Cost/Ft 5-ft Wide Concrete Walk w/ No Curb \$184 5-ft Wide Concrete Walk w/ Concrete Curb \$277 5-ft Widt Bituminous Walk w/ No Curb \$94 8-ft Wide Bituminous Concrete Path \$297	5' curbed sidewalk on north w/ pedestrian access to apartment complex	5' sidewalk with green strip on north w/ pedestrian access to apartment complex	8' shared use path on north w/ pedestrian access to apartment complex	5' sidewalk on south transitioning to 5' sidewalk with green strip on north	5' curbed sidewalk on south	Alt. 6: 5' sidewalk on south beginning along existing path alignment and transitioning to curbed sidewalk
Sidewalk / Path Base Cost	\$411,820	\$305,790	\$433,680	\$311,200	\$445,970	\$558,675
Additional earthwork beyond typ. sidewalk const.	\$16,200	\$23,100	\$20,460	\$6,680	\$39,000	\$11,100
Guardrail removal / reset / new	\$14,872	\$14,872	\$120	\$6,149	\$17,875	\$5,005
Seeding and topsoil items	\$2,220	\$2,262	\$2,813	\$2,498	\$2,566	\$937
Extend Cattle Pass		\$400,000				
Pedestrian Structure			\$450,000			
Pedestrian Tunnel				\$800,000		
Mobilization / Demobilization (beyond typ. sidewalk const.)	\$5,000	\$45,000	\$45,000	\$85,000	\$5,000	\$5,000
20% Contingency on Alternative Specific Items	\$9,888	\$98,976	\$102,927	\$178,473	\$14,589	\$9,283
Conceptual-Level Opinion of Probable Construction Cost	\$460,000	\$890,000	\$1,060,000	\$1,390,000	\$530,000	\$590,000
Engineering, Construction Resident, and Admin	\$170,000	\$320,000	\$380,000	\$500,000	\$190,000	\$210,000
Rounded Total Project Costs (Excluding ROW)	\$630,000	\$1,210,000	\$1,440,000	\$1,890,000	\$720,000	\$800,000

Assumptions:

- 1. Average base sidewalk construction cost value from the VTrans Report on Shared-Use Path and Sidewalk Costs, January 2020.
- 2. Estimates for engineering, construction resident, and administration based on VTrans Report on Shared-Use Path and Sidewalk Costs guidance, adjusted for rounding.
- 3. Utility company will pay for costs associated with required relocation of utility poles.

EVALUATION MATRIX

	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6		
	5' curbed sidewalk on north w/ pedestrian access to apartment complex	5' sidewalk with green strip on north w/ pedestrian access to apartment complex	8' shared use path on north w/ pedestrian access to apartment complex	5' sidewalk on south transitioning to 5' sidewalk with green strip on north	5' curbed sidewalk on south	5' sidewalk on south beginning along existing path alignment and transitioning to curbed sidewalk	No Build	
PROJECT GOALS	;							
Improved Pedestrian Safety	yes	yes	yes	yes	yes	yes	no improvement	
PROJECT COSTS								
Construction	\$460,000	\$890,000	\$1,060,000	\$1,390,000	\$530,000	\$590,000	\$0	
Engineering Design + Resident Engineer	\$170,000	\$320,000	\$380,000	\$500,000	\$190,000 \$210,000		\$0	
Total Project Costs (excluding ROW)	\$630,000	\$1,210,000	\$1,440,000	\$1,890,000	\$720,000	\$800,000	\$0	
LAND USE and LOCAL CONTEXT								
Bike / Ped Safety	curbed sidewalk adjacent to road	5' grass strip adjacent to road	path separated from road crosswalk at Boardma		•	curb / grass strip adjacent to road crosswalk at Boardman	no improvements	
Local Context (drive crossings, local input, etc.)	improved, 1 drive improved, 1 drive improved, 1 drive, separated from road improved, 1 drive improved,						no improvements	
ROW and Utility impacts	minor	minor	potential	potential	unlikely unlikely		-	
ENVIRONMENTAL / CULTURAL								
Floodplains	-	-	•	-	-	-		
Fish & wildlife	-	-	minor	-	-	-	-	
Wetlands	unlikely/minor	unlikely/minor	potential	unlikely/minor	unlikely/minor	unlikely/minor	-	
R/T/E Species; Wildlife; Conservation Areas	Middlebury Area Land Trust near to ROW on south side at eastern end, but no anticipated impact. State endangered animal within project area.							
Archaeological / Historic	unlikely	potential	potential	potential	-	-	-	
Public Lands (Section 4f)	-	-	-	-	-	-	-	
LWCF (Section 6(f))	-	-	-	-	-	-	-	
Agricultural lands			prime s	statewide soil			-	
Hazardous waste sites	car dealership shows as a hazardous site in GIS, but no anticipated impact							
PERMITTING								
NEPA	Categorical Exclusion							
Section 404 (wetlands) / State Wetlands Permit	potential	potential	potential	potential	potential	potential	-	
Section 401 Water Quality						-	-	
Stream Alteration Permit	likely for all alternatives							
Stormwater Permitting (Construction & Operational)	unlikely							
Lakes & Ponds							-	
Section 1111 Permit	yes							

ALTERNATIVES: SUMMARY

Alternative 1: Curbed sidewalk on north side, and sidewalk section on south side to apartment complex.

Alternative 2: Sidewalk on north side with grass strip, and sidewalk section on south side to apartment complex.

Alternative 3: Multi-use path on north side, and sidewalk section on south side to apartment complex.

Alternative 4: Sidewalk on south side along existing path alignment and transition to north side (through new pedestrian tunnel).

Alternative 5: Curbed sidewalk on south side with crosswalk at Boardman Street.

Alternative 6: Sidewalk along existing path alignment on south side and transition to curbed sidewalk, with crosswalk at Boardman Street.

Points Value Per Criteria		Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	NB	Total Possible Points	
Project Goals	20	20	20	20	20	20	0	20	
Project Costs	25	13	11	8	22	20	25	25	
Land Use and Local Context	1 16	16	27	22	11	13	5	30	
Env'l / Cultural / Permitting	1 7(1	16	13	17	20	20	22	25	
Total Points and Ranking per		65	71	67	73	73	52		
Alternative		6	4	5	2	3	7	Legend Project Area Alternative 1 Alternative 2 Alternative 3	
Ranking Without Cost Factor		5	1	2	6	4	7	Alternative 4 Alternative 5 Alternative 6 Parcels Culvert guardrail	
								overhead utilities Streams Trails Existing pedestrian	

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ALTERNATIVES PRESENTATION MEETING:

- Scheduled for Sept. 26th
- Public meeting to present project alternatives to the public.
- Input to date suggests preference for an alternative on the north side of the road.



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NEXT STEP:

Finalize Scoping
 Study Report



