

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

Addison County Regional Planning Commission
Transportation Advisory Committee (TAC) Meeting
SEPTEMBER 21, 2022



MIDDLEBURY PEDESTRIAN CONNECTIVITY PLANNING STUDY (BOARDMAN STREET to HANNAFORD PLAZA): ACRPC TAC MEETING

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



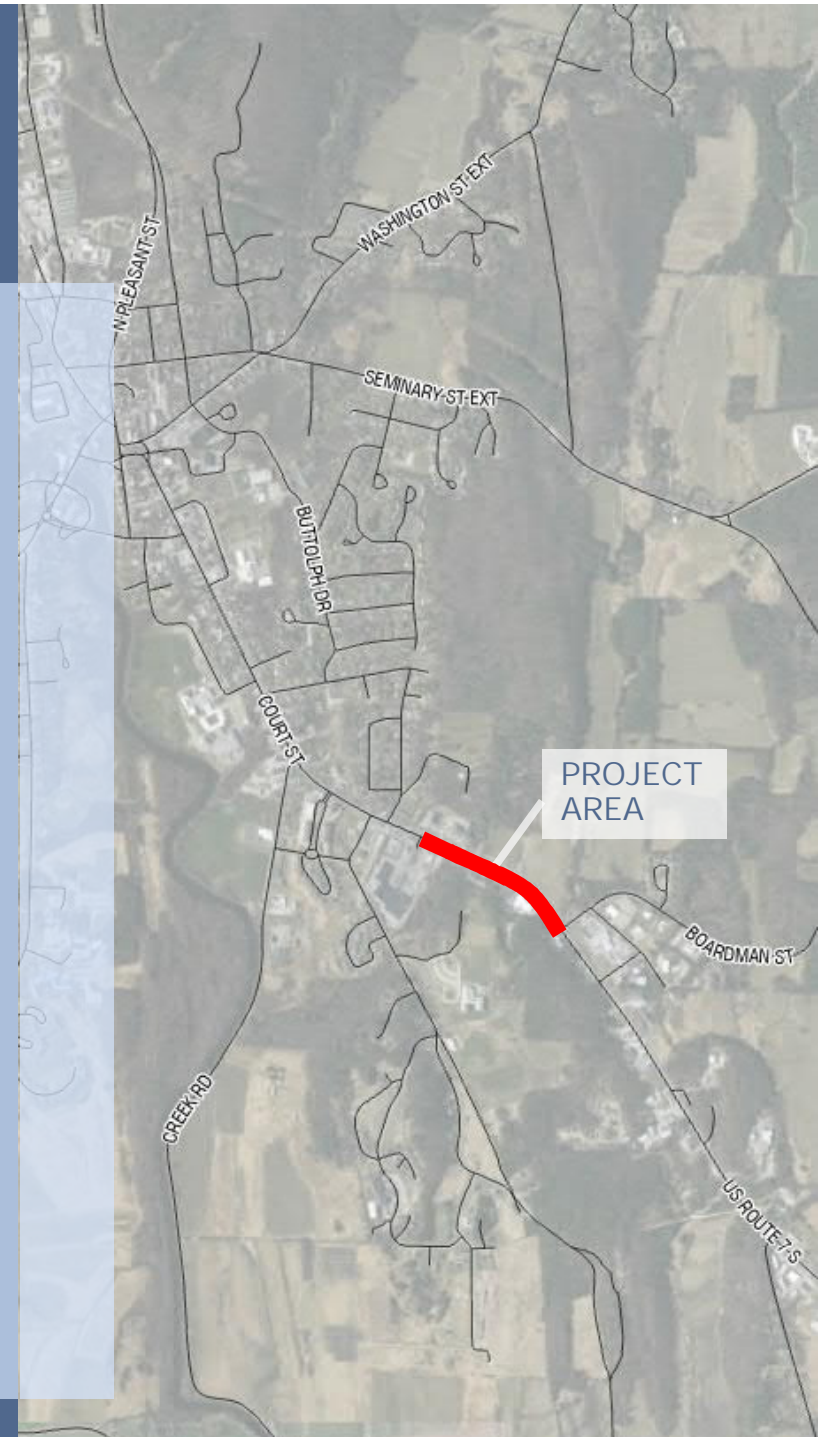
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PROJECT GOAL:

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.

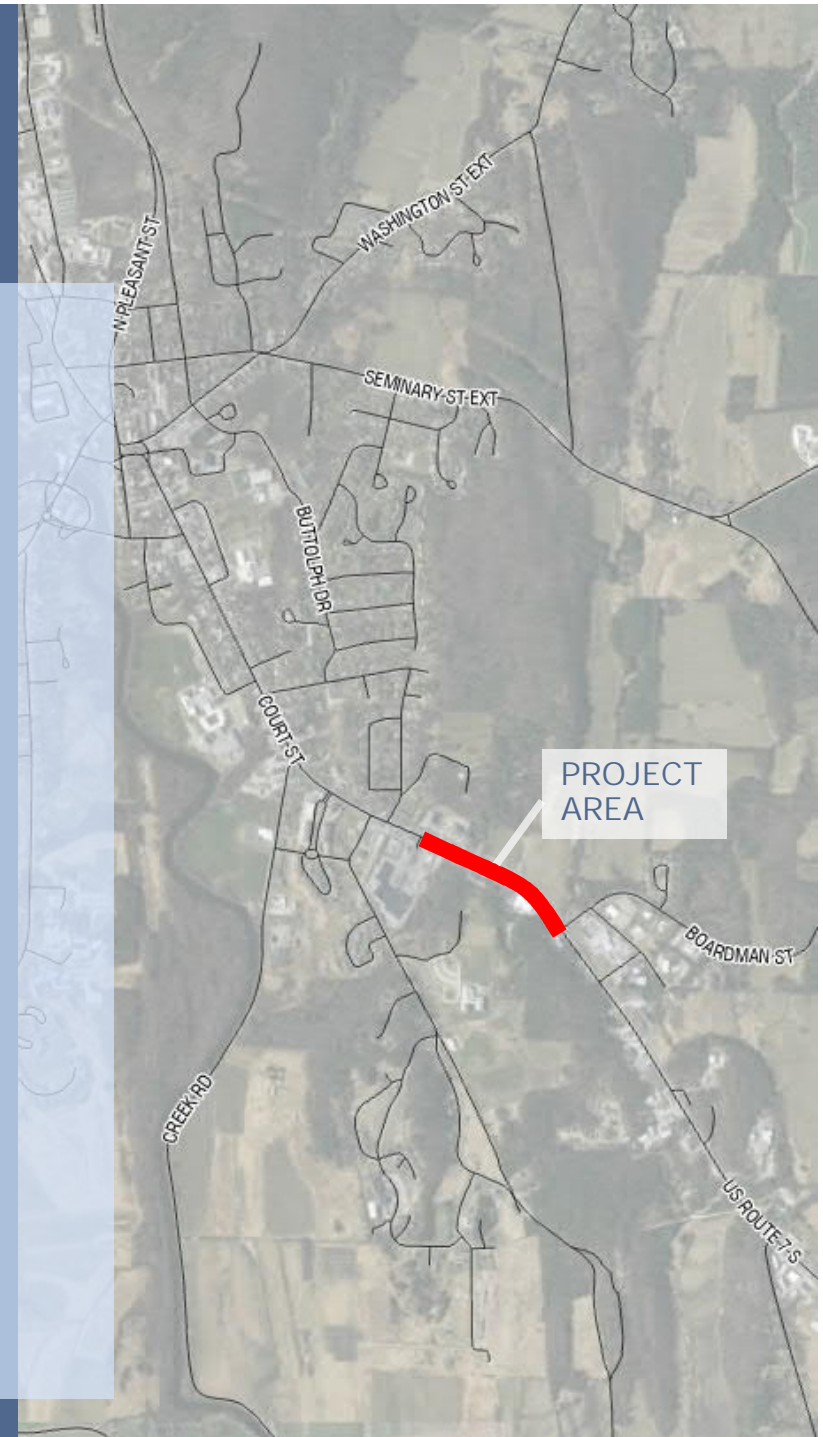


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KICK-OFF MEETING:

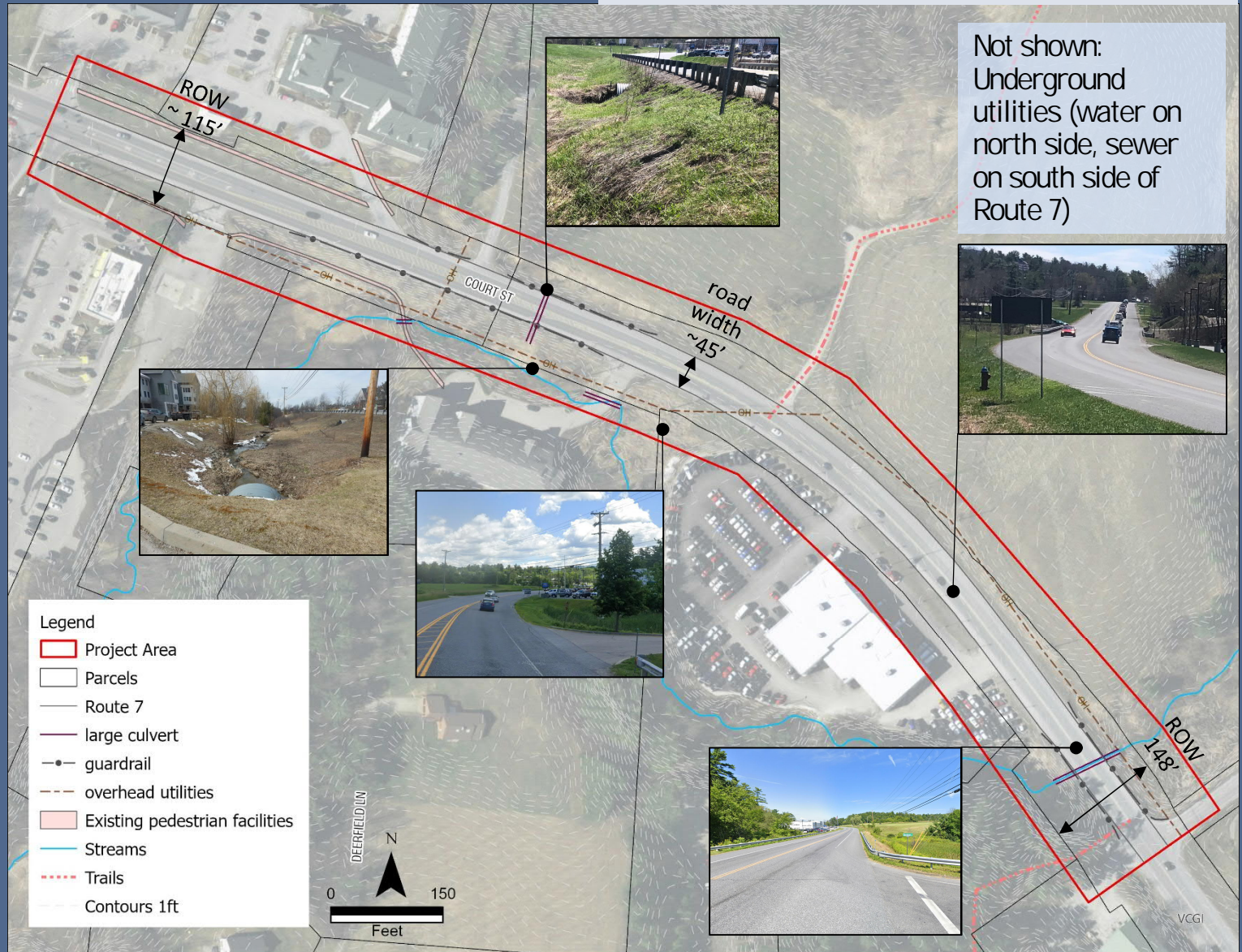
- Attendees included representatives from the Town, ACRPC, VTrans, and D&K.
- Reviewed project scope, project area limits, schedule, and project logistics.



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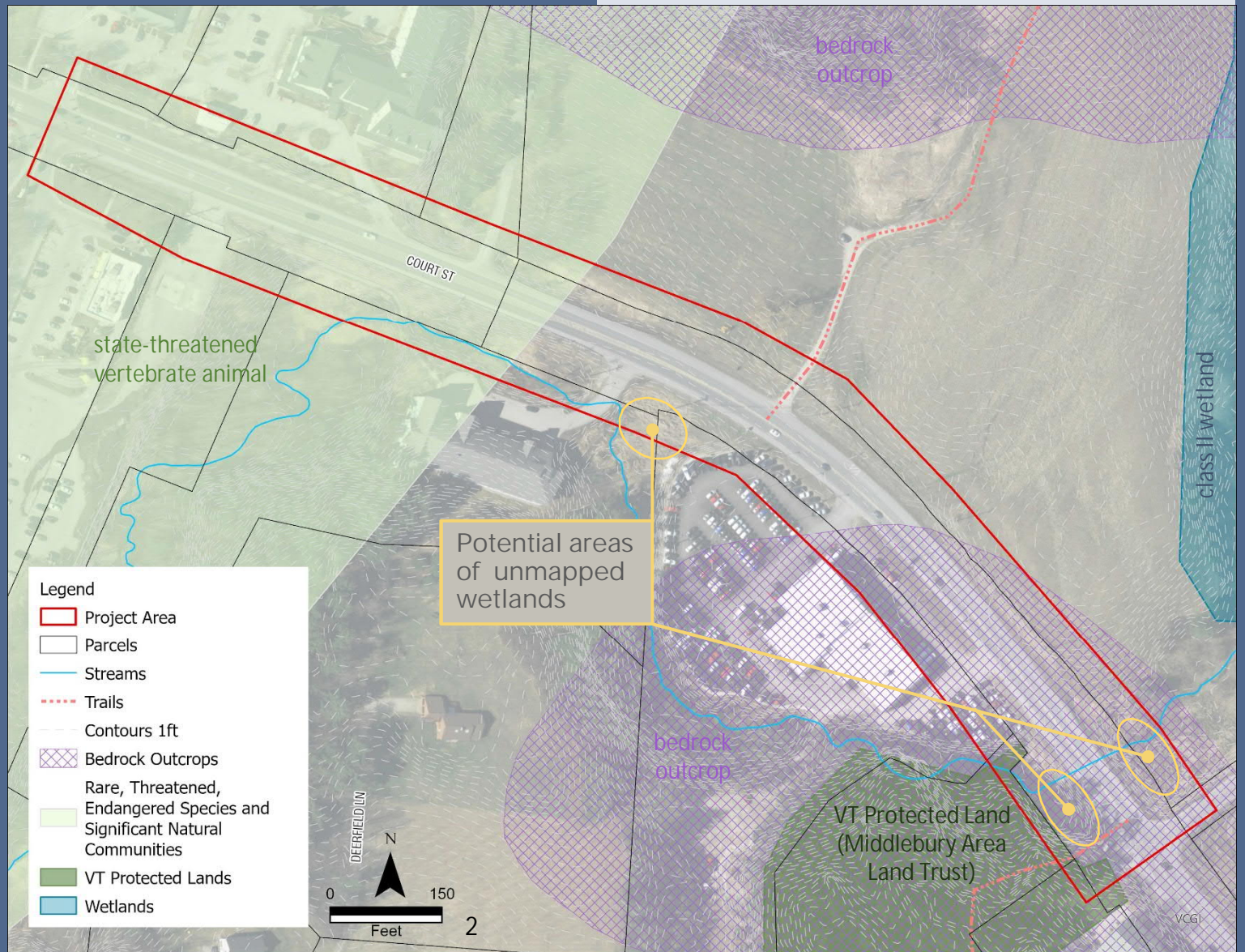
Existing Conditions: Overall Project Area



MIDDLEBURY PEDESTRIAN CONNECTIVITY PLANNING STUDY (BOARDMAN STREET to HANNAFORD PLAZA): ACRPC TAC MEETING

Existing Conditions: Environmental Resources

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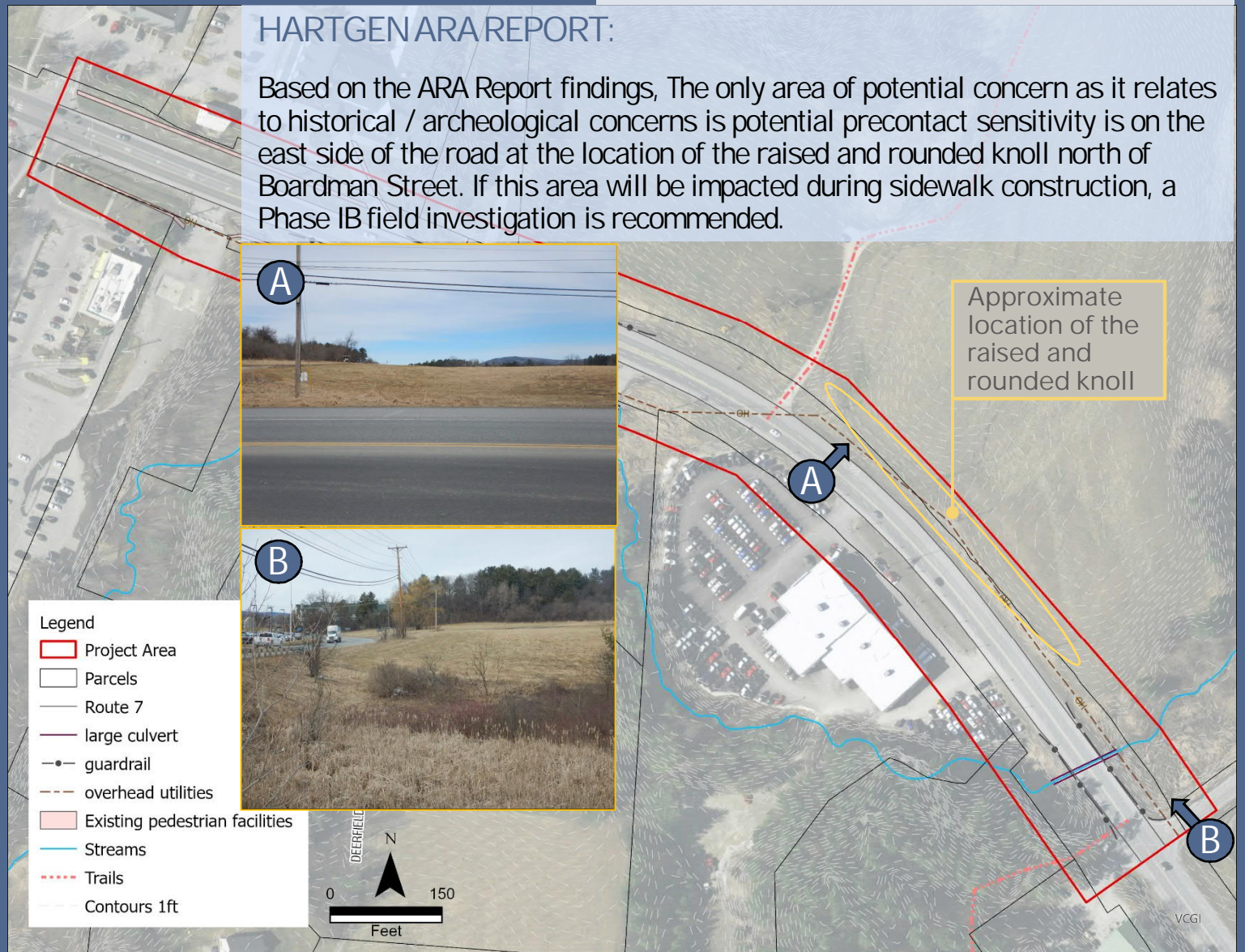
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Existing Conditions: Archeological Resource Assessment (ARA)

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HARTGEN ARA REPORT:

Based on the ARA Report findings, The only area of potential concern as it relates to historical / archeological concerns is potential precontact sensitivity is on the east side of the road at the location of the raised and rounded knoll north of Boardman Street. If this area will be impacted during sidewalk construction, a Phase IB field investigation is recommended.



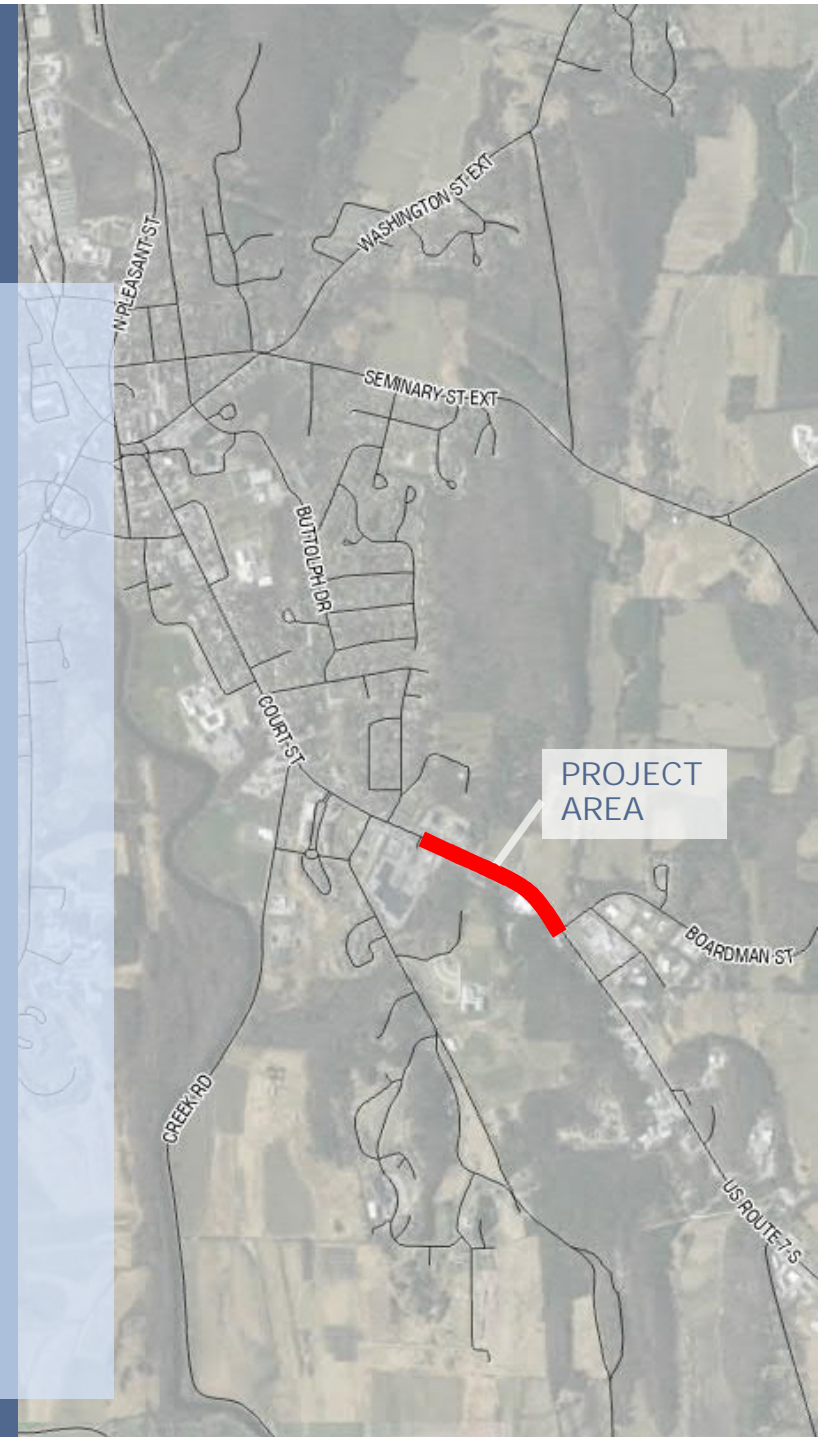
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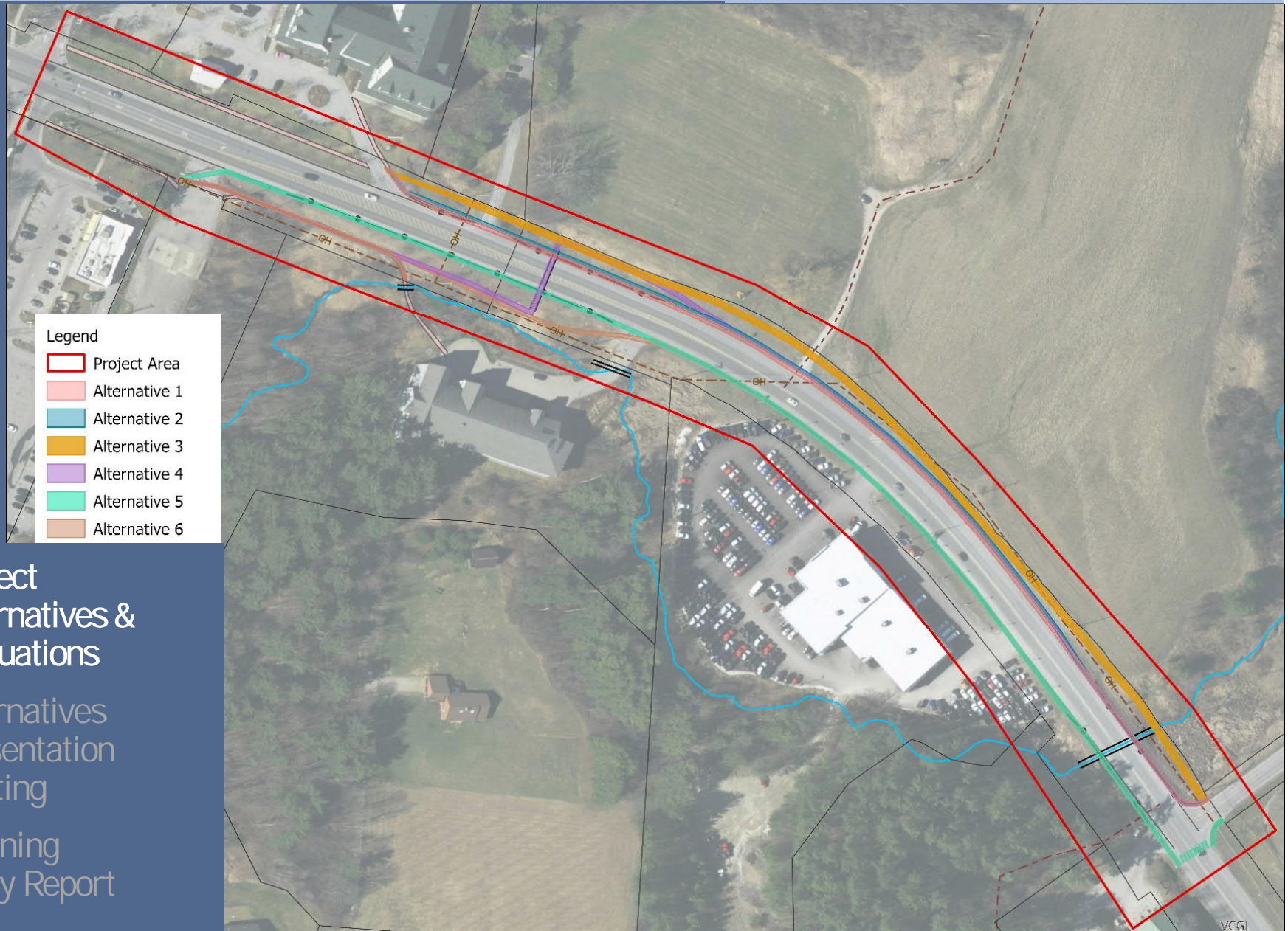
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LOCAL CONCERNS MEETING:

Public meeting to solicit public input on the

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

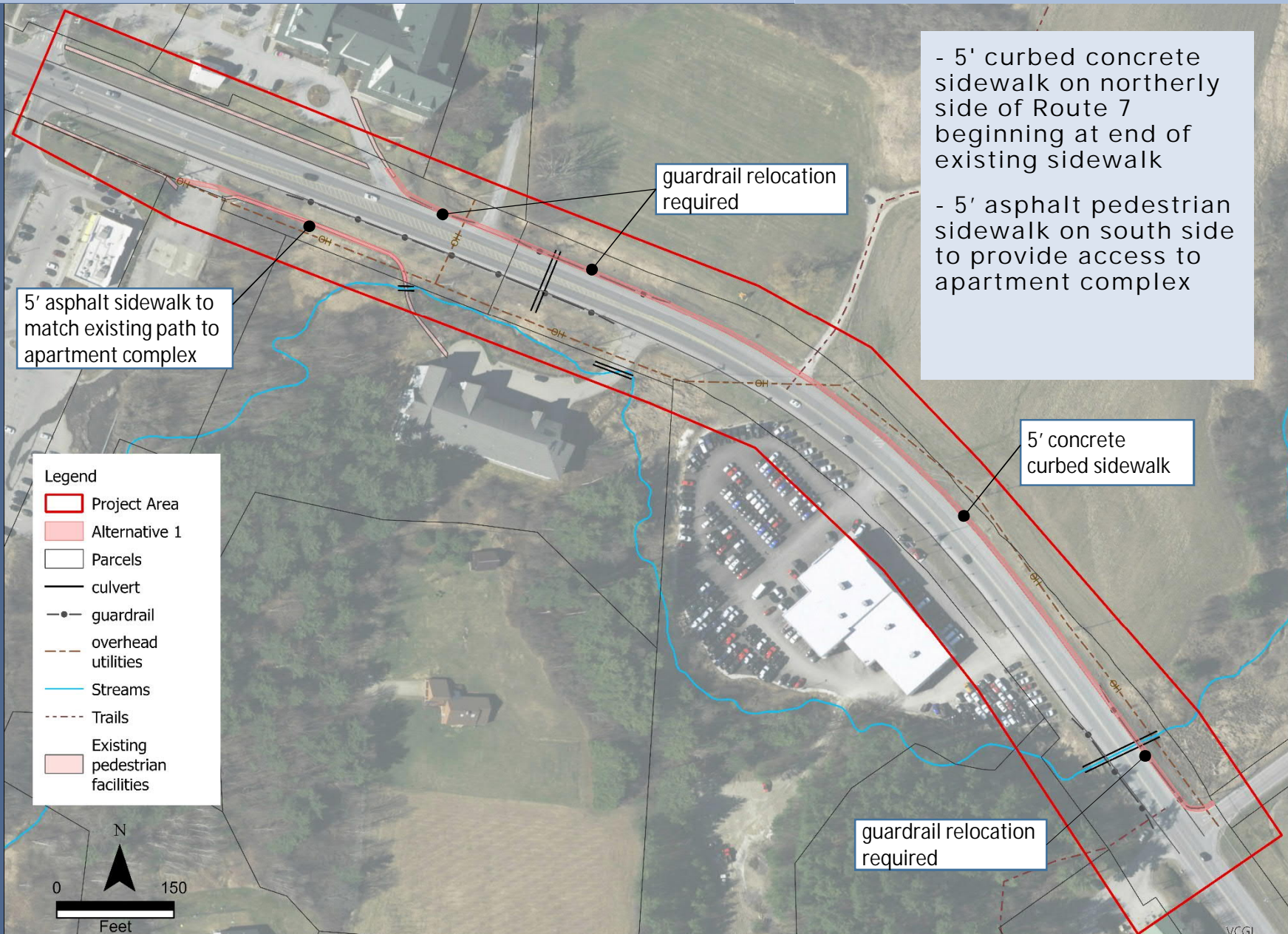




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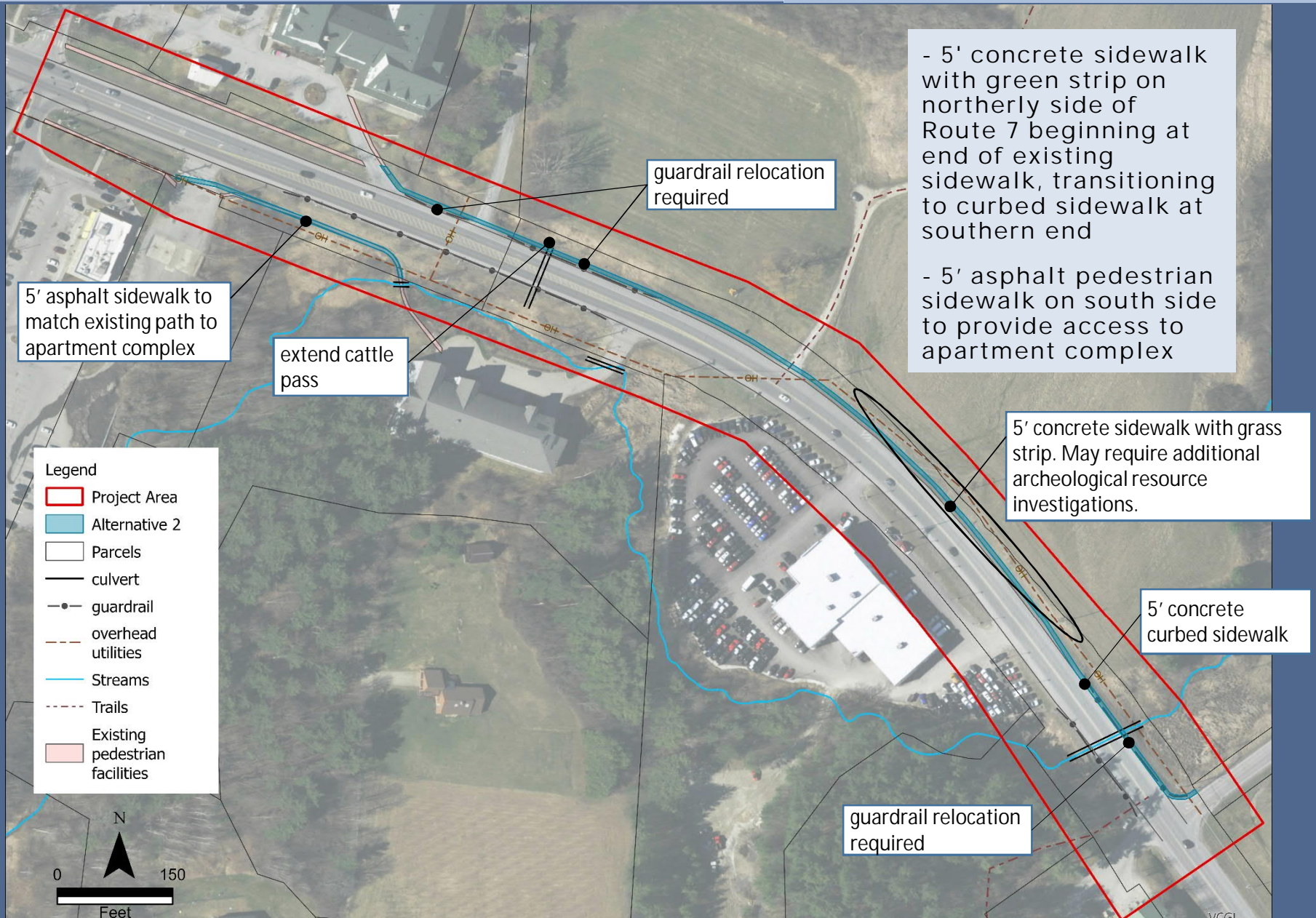
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ALTERNATIVE 1



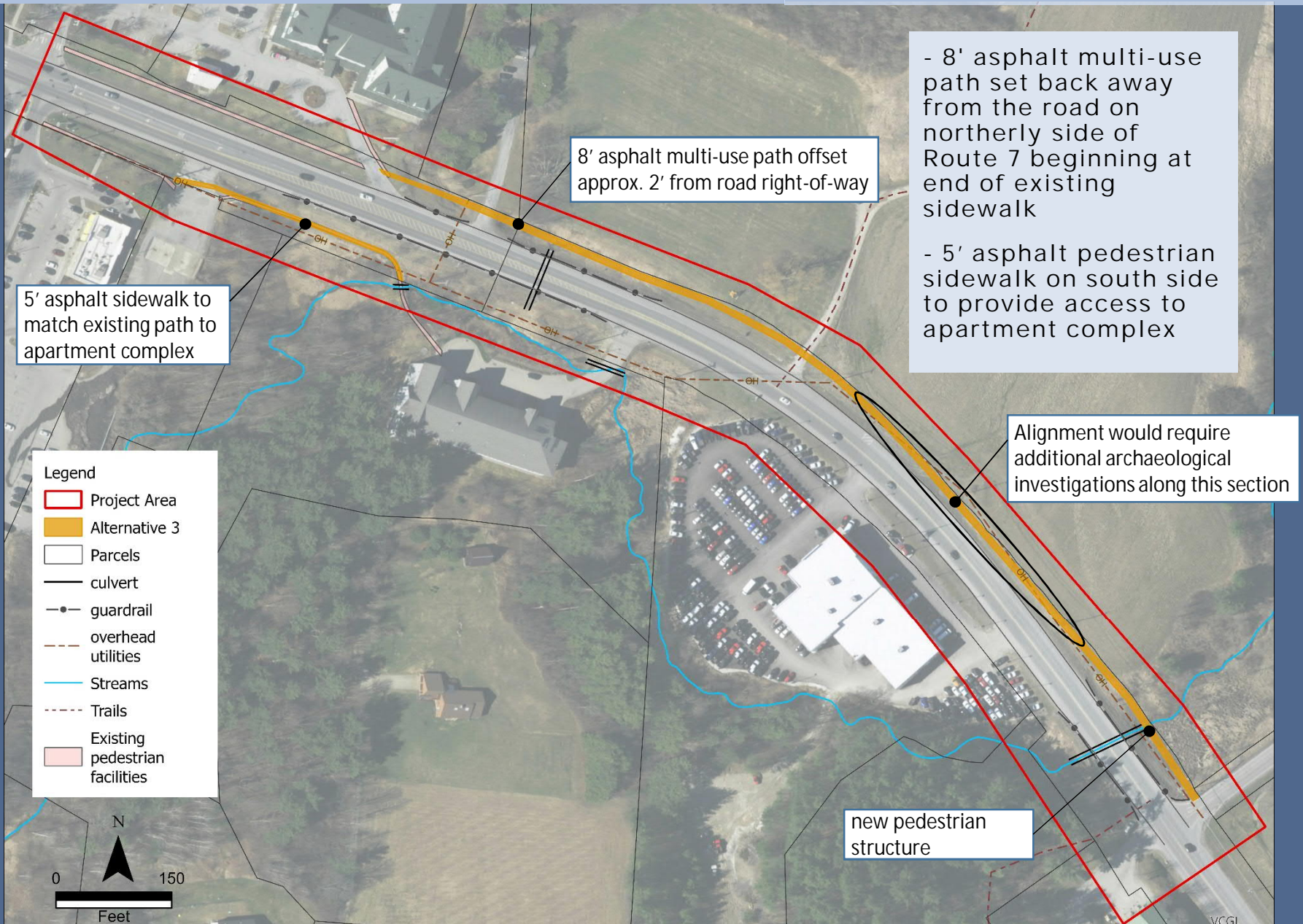
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ALTERNATIVE 2



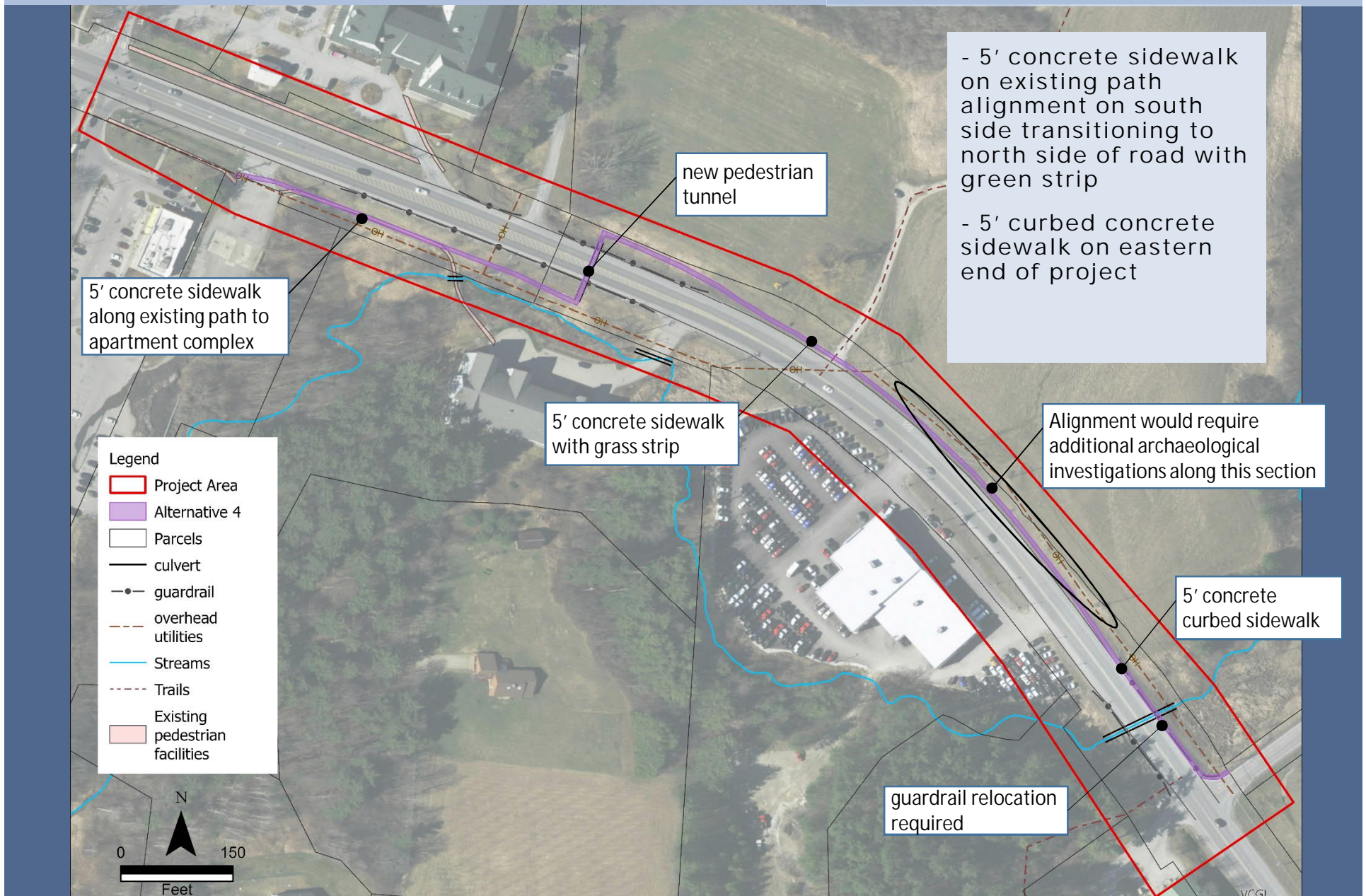
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ALTERNATIVE 3



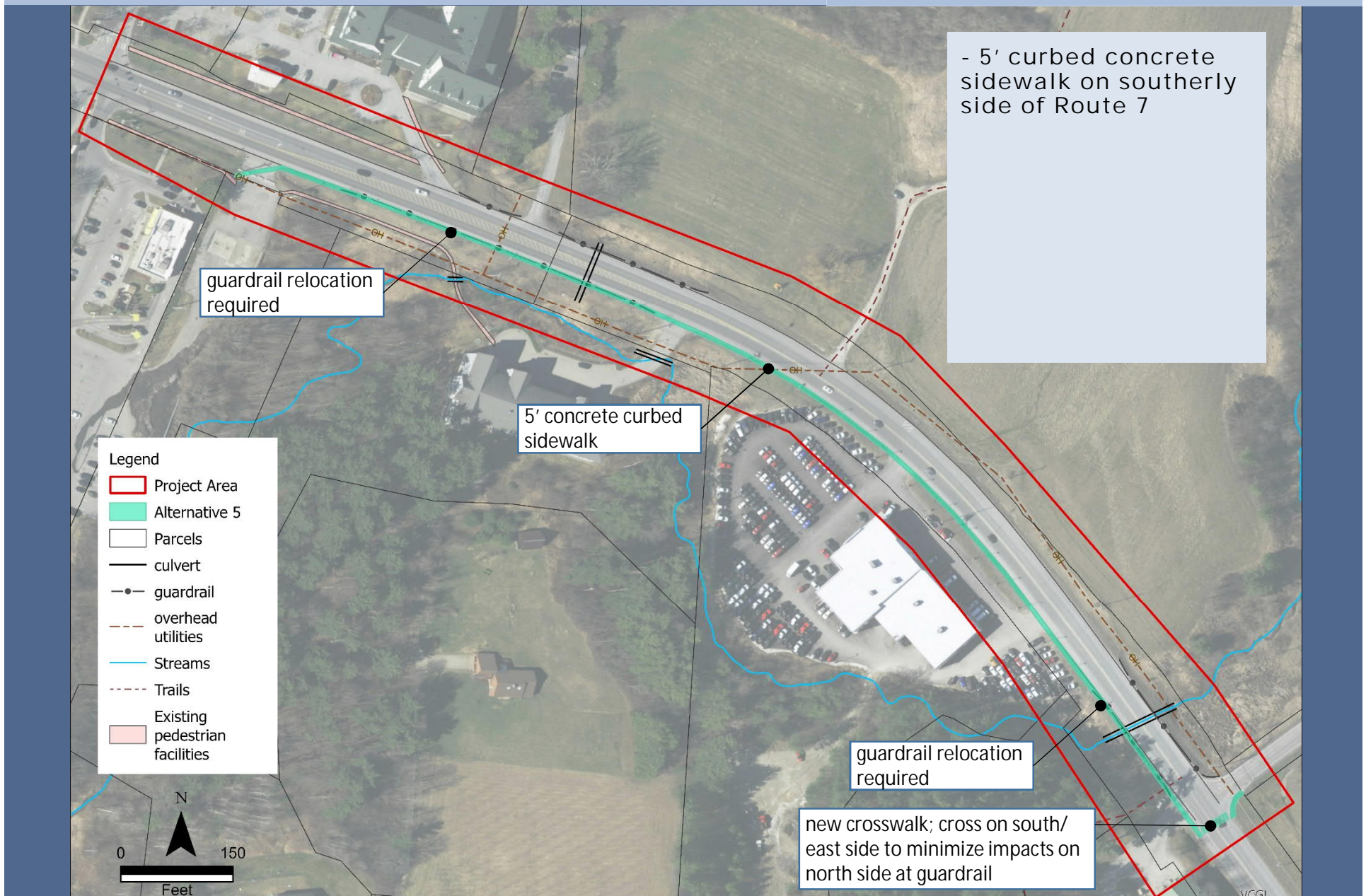
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ALTERNATIVE 4



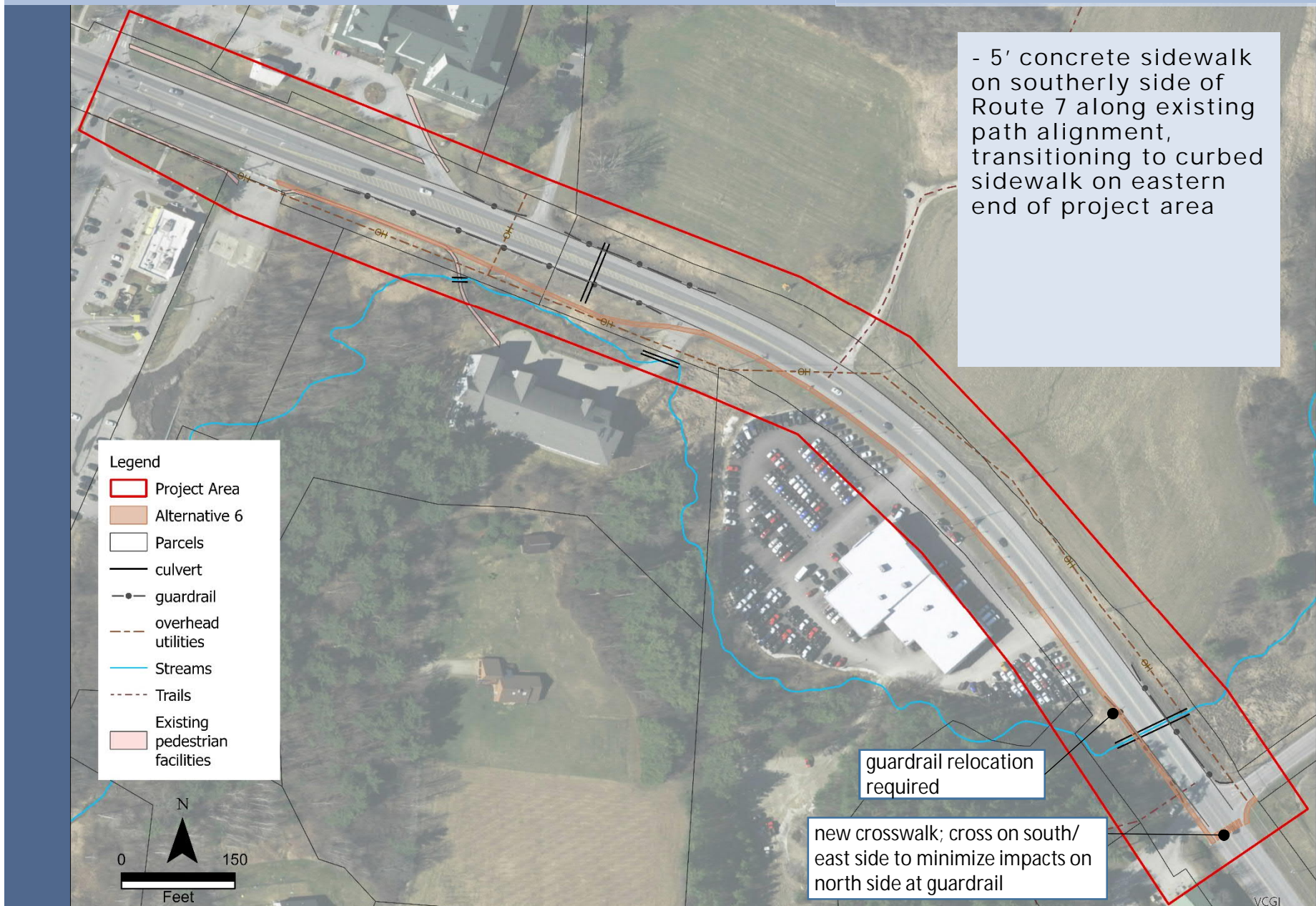
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ALTERNATIVE 5



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ALTERNATIVE 6



MIDDLEBURY PEDESTRIAN CONNECTIVITY PLANNING STUDY (BOARDMAN STREET to HANNAFORD PLAZA): ACRPC TAC MEETING

OPINION OF PROBABLE CONSTRUCTION COSTS

Project cost estimates based on VTrans guidance for linear foot sidewalk costs plus additional site-specific cost estimates.

<i>VTrans Report on Shared-Use Path and Sidewalk Costs, 2020</i>	Total Cost/Ft
5-ft Wide Concrete Walk w/ No Curb	\$184
5-ft Wide Concrete Walk w/ Concrete Curb	\$277
5-ft Wide Bituminous Walk w/ No Curb	\$94
8-ft Wide Bituminous Concrete Path	\$297

	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	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.

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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							
ROW and Utility impacts	minor	minor	potential	potential	unlikely	unlikely	-
Local Context (drive crossings, local input, etc.)	improved, 1 drive	improved, 1 drive	improved, 1 drive	improved, 1 drive	drive crossings, potential concern in front of car dealership, need for crosswalk at Boardman		no improvements
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	state endangered animal within project area	state endangered animal within project area	state endangered animal within project area	state endangered animal within project area	Middlebury Area Land Trust is adjacent to road 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 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						-
Construction Phase Stormwater Permit	unlikely						-
Operational Phase Stormwater Permit	unlikely						-
Lakes & Ponds	-	-	-	-	-	-	-
R, T, E Species	no permit likely to be needed						-
Section 1111 Permit	yes						-

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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.



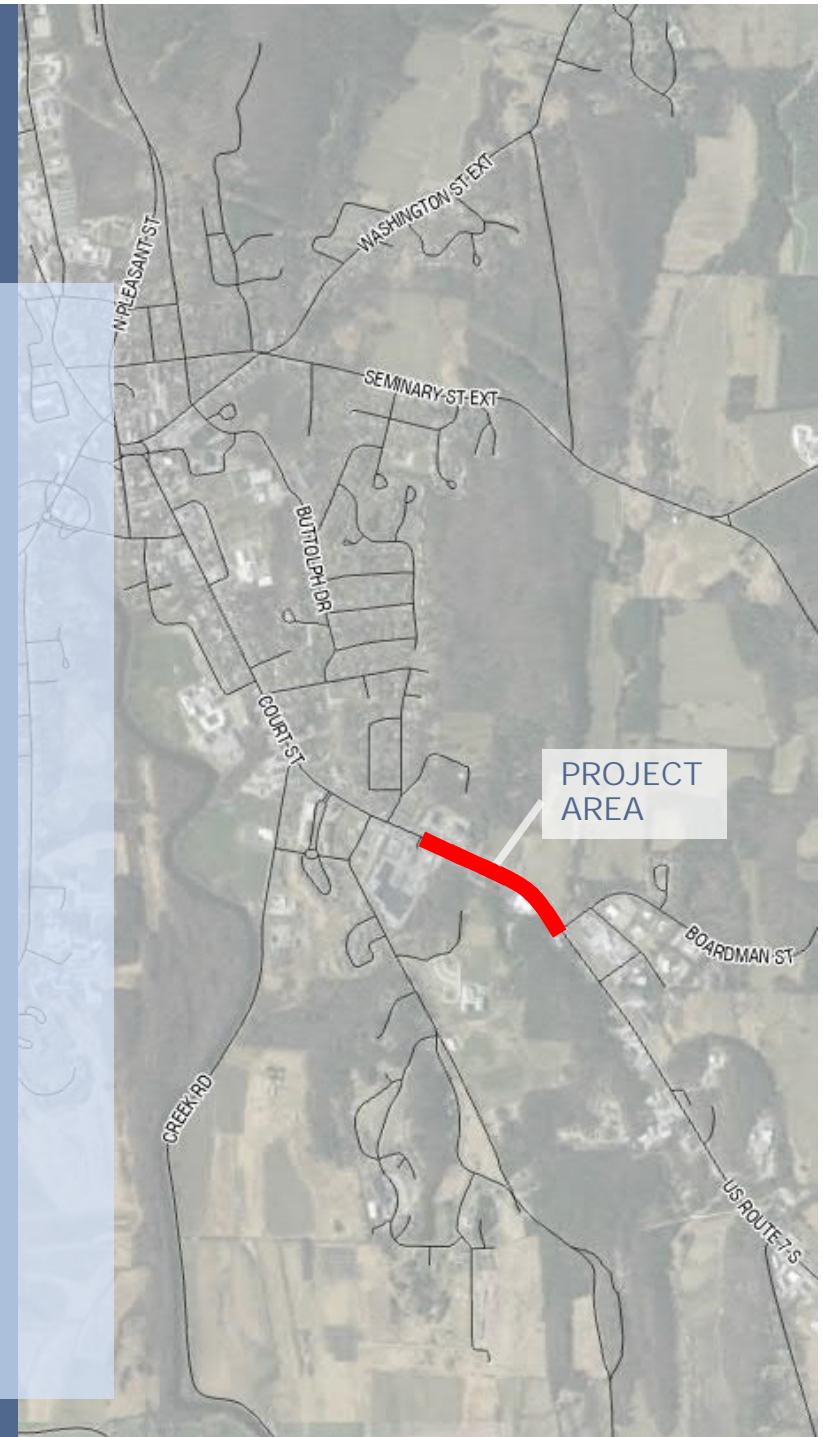
	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	No Build	Total Possible Points
Points Value Per Criteria	5' curbed sidewalk on north w/ pedestrian access to apartment complex	5' sidewalk with green strip on north w/ pedestrian access to apartment complex	8' shared use path on north w/ pedestrian access to 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		
Project Goals	25	25	25	25	25	25	0	25
Project Costs	25	13	11	8	22	20	25	25
Land Use and Local Context	24	24	21	23	15	15	5	25
Env'l / Cultural / Permitting	19	18	14	22	19	19	22	25
Total Points and Ranking per Alternative	93 1	80 3	71 6	78 5	81 2	79 4	52 7	100

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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.

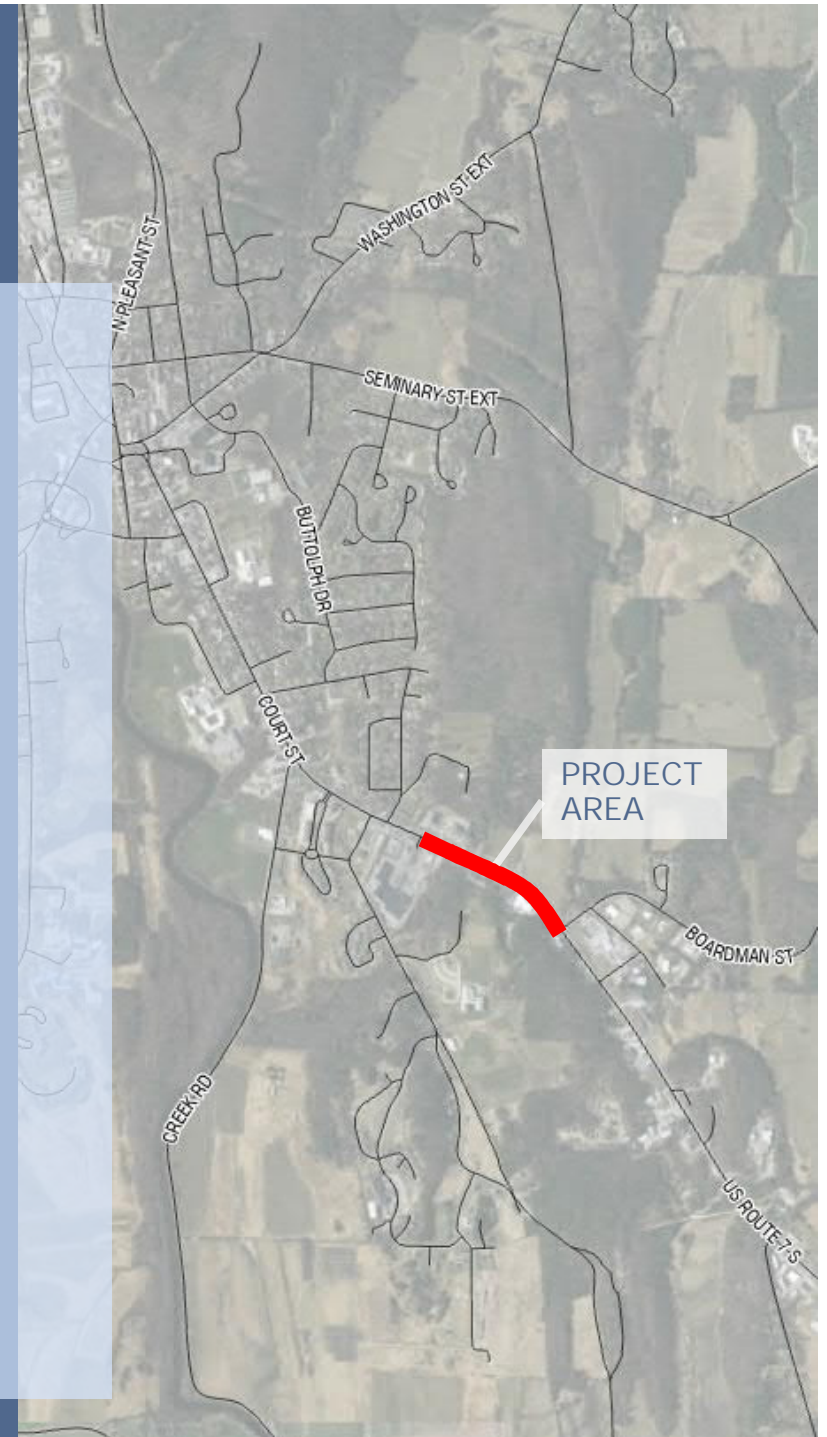


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NEXT STEP:

- ACRPC TAC Meeting
- Finalize Scoping Study Report



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ALTERNATIVES PRESENTATION MEETING

COMMENTS? QUESTIONS?

Kathleen Ramsay
Town Manager

Jennifer Murray
Town Planning & Zoning
Director

Mike Winslow
Addison County Regional
Planning Commission

Jenny Austin, P.E.
DuBois & King, Inc.

