

Berlin Properties

File No.: 199201253

City and State: Berlin, VT

General Impacts:

- 1.3 acres non-tidal scrub-shrub
- 5.3 acres non-tidal emergent

Functions and Values Lost: (From Monitoring Plan)

- Sediment/Toxicant Retention
- Nutrient Removal
- Wildlife Habitat

Year(s) Mitigation Constructed: February 1997

Size and Type of Mitigation as Proposed:

- 0.8 acre emergent wetland
- 22.5 acres upland/wetland mix
- 1.5 acres non-tidal emergent

Proposed Functions and Values of Mitigation: (From Monitoring Plan)

- Sediment/Toxicant Retention
- Nutrient Removal
- Wildlife Habitat

Mitigation Special Condition(s): (Description of Work)

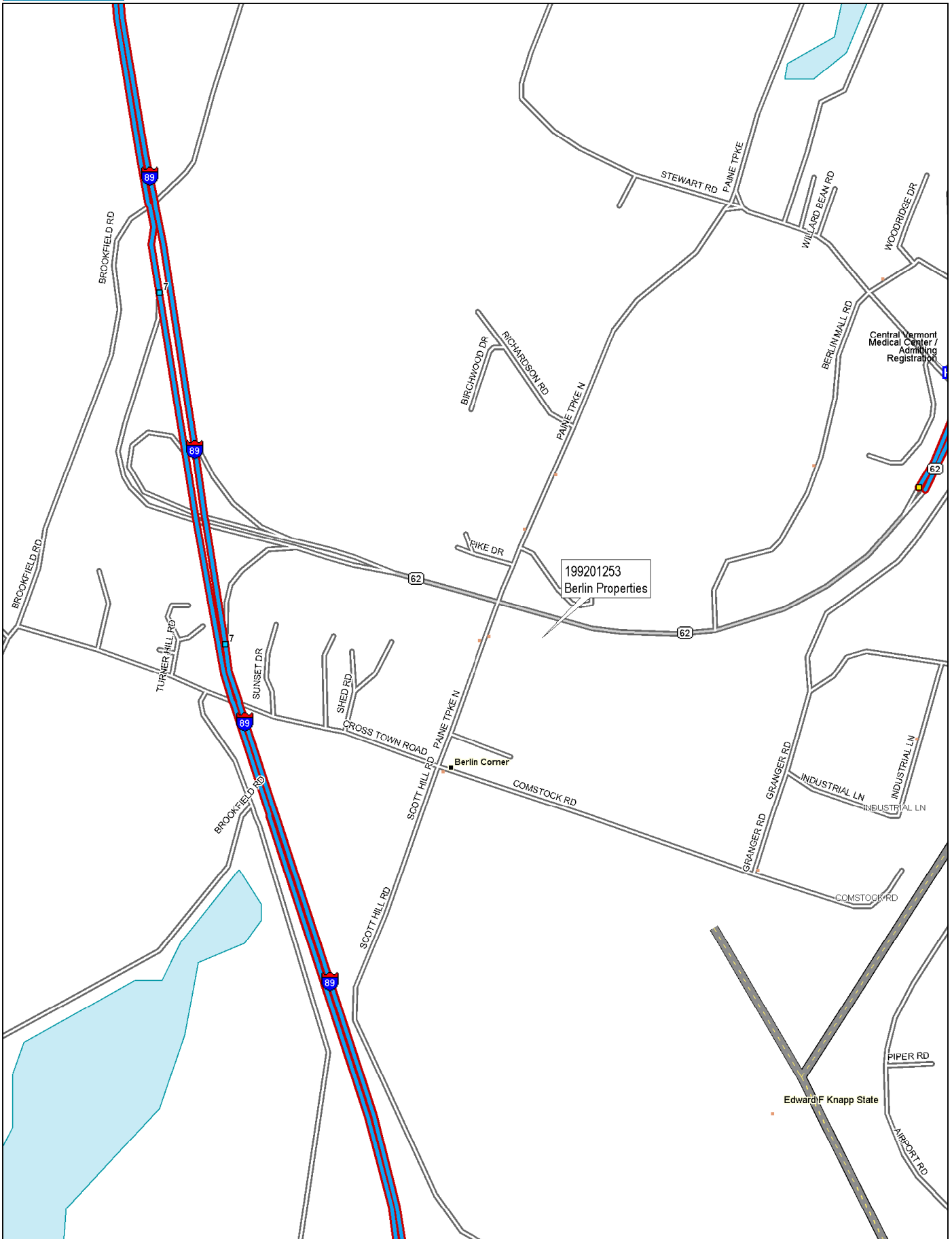
- b. Restore and enhance an 0.8 acre degraded emergent wetland adjacent to the detention pond by the removal of gravel fill and planting of wetland species.

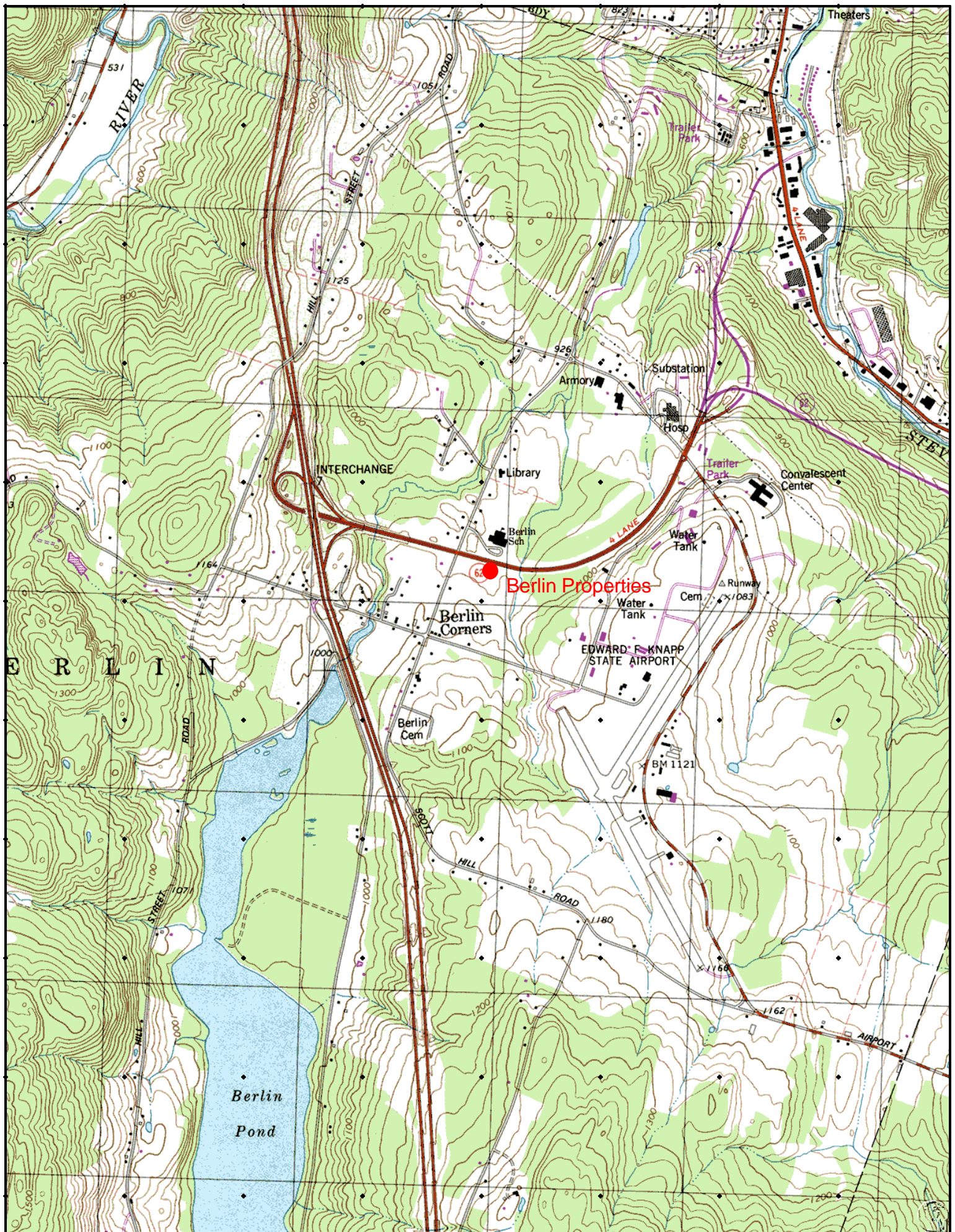
Remarks:

None

Directions:

Take 128/95 north. Take exit 32B/32A, US-3 north/Middlesex Turnpike going towards Lowell/Nashua, NH. Stay straight going onto Frederick Everett Turnpike. Everett Turnpike becomes I-93 north. Take the I-89 north exit towards Lebanon/White River Junction/VT. Take exit 7, VT-62 towards SU-302/Berlin/Barre. Merge onto VT-62 east.





MITIGATION SITE FIELD DATA FORM

Site Name: Berlin Properties File No. 199201253

City/Town: Berlin State: VT Waterbody: _____

Monitor(s): Paul Minkin, Keith Wright, Marty Abair Date: 8-19-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: TBD

Actual size of wetland: TBD

Landscape position: TBD

Lat/Long Points: 44.21258N 72.57155W

Saved GPS Waypoint name: BER

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:

Road, shopping mall

Is wetland function compromised by
surrounding land use?

It is a habitat island with limited access for
wildlife.

Plant health:

Good

Invasive species:

Lythrum salicaria (trace)

Wildlife use:

Frogs, goldfinch, dragonflies

Plants:

Algae
Alisma sp.
Asteraceae sp.
Carex vulpinoidea
Eupatorium perfoliatum
Euthamia graminifolia
Juncus effusus
Juncus sp.
Juncus sp.
Lythrum salicaria
Onoclea sensibilis
Phalaris arundinacea
Phleum pratense
Sagittaria latifolia
Scirpus cyperinus
Scirpus sp.
Scirpus validus
Solidago sp.
Trifolium pratense
Typha angustifolia
Typha latifolia

Soils Data:

Soils data not collected at this site.

Sketch approximate mitigation site, noting areas and types of wetlands, waters, other features, landscape position, landmarks, etc., and data and photo point(s)

See file.

Overall Description of site:

This site is a retention pond at the edge of a grocery store parking lot. Its primary functions include stormwater detention and sediment and toxicant trapping. The site contains a forebay, a retention basin, and a wet meadow.

Comments, problems, recommendations:

None.

Wetland Function-Value Evaluation Form

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Total area of wetland 1.5 ac Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use parking lot, road, wetland Distance to nearest roadway or other development 20 feet

Dominant wetland systems present	PEM	Contiguous undeveloped buffer zone present	15%
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Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? upper

How many tributaries contribute to the wetland? _____ Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 199201253













Latitude N44.21258 Longitude W72.57155

Prepared by: Minkin Date 8/19/02

Wetland Impact:
Type _____ Area _____

Evaluation based on: Office _____ Field **X**

Corps manual wetland delineation completed? Y_____ N X

Function/Value		Suitability Y N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
	Groundwater Recharge/Discharge		X		possibly minor recharge
	Floodflow Alteration	X		2,4,5,6,7,8,9,18	nearly surrounded by impervious surface
	Fish and Shellfish Habitat		X		
	Sediment/Toxicant Retention	X		1,2,3,5	X receives flow from parking lot, road
	Nutrient Removal	X		2,3,4,5,8,9,10	receives flow from parking lot, road
	Production Export	X		2,4,7	to adjacent natural wetlands
	Sediment/Shoreline Stabilization		X		
	Wildlife Habitat	X		6,7,11,19	frogs, goldfinch, dragon flies
	Recreation		X		
	Educational/Scientific Value		X		
	Uniqueness/Heritage		X		
	Visual Quality/Aesthetics		X		
ES	Endangered Species Habitat		X		
	Other				

Notes:

* Refer to backup list of numbered considerations.

APPROXIMATE LOCATION OF
DEGRADED WETLAND. REMOVE
GRAVELLY FILL MATERIAL AND
PLANT WITH ZONE 4 SPECIES

30 FT WIDE SHELTER BELT OF TREES PLANTED
15 FT ON CENTER WITH EQUAL PROPORTIONS
OF THE EVERGREEN TREE SPECIES SHOWN ON
THE PLANTING SCHEDULE.

SEE CROSS-SECTION A-B, THIS SHEET

OUTLET
STRUCTURE
(SEE DETAIL
SHEET 3)

WETLAND
OUTFALL (SEE
DETAIL SHEET 3)

TYPICAL GROUPING OF
8 SHRUBS PLANTED
8 FT ON CENTER. REFER
TO PLANTING SCHEDULE
FOR SPECIES.

30 FT WIDE SCREEN OF TREES
PLANTED 15 FT ON CENTER.
USE A MIX OF 75% NORTHERN
WHITE CEDAR AND 25% RED MAPLE.

10 FT WIDE MAINTENANCE ROAD—
12" GRAVEL COVERED
WITH 4" TOPSOIL. ESTABLISH
DENSE GRASS.

PARKING LOT

= Photographic Station

TEMPORARY EROSION
CONTROL FENCE
(SEE DETAIL SHEET 3)

WETLAND
UPLAND

MAINTENANCE ROAD

OPEN WATER

1
HIGH MARSH
BOTTOM
ELEV.=972.0

2
LOW MARSH
BOTTOM
ELEV.=971.5

3
HIGH MARSH
BOTTOM
ELEV.=972.0

4
LOW MARSH
BOTTOM
ELEV.=971.5

5
HIGH MARSH
BOTTOM
ELEV.=972.0

FOREBAY

PROPOSED: FILL FOR RETAIL DEPARTMENT STORE
IN: HEADWATER WETLAND
AT: BERLIN, VT
APPLICATION BY: BERLIN PROPERTIES, INC.
SHEET 10 OF 11
DATE: 9/94

199201253
Berlin Properties
Berlin, VT
8/19/02



Looking northwest and northeast from south of the site on the slope to the Shaw's parking lot.
The mitigation site is on the far side of the access road. In the distance is Route 62.



0 200M

0 200yd

Image courtesy of the U.S. Geological Survey
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