

# VT AOT, Otter Creek

**File No.:** 199500936

**City and State:** Wallingford, VT

**General Impacts:** 1.4 acres scrub-shrub

**Functions and Values Lost:** Unable to tell from file or database.

**Year(s) Mitigation Constructed:** August 1997

**Size and Type of Mitigation as Proposed:** 0.7 acre scrub-shrub restoration, 0.3 acre enhancement

**Proposed Functions and Values of Mitigation:** Unable to tell from file or database.

## **Mitigation Special Condition(s):**

1. Mitigation shall be accomplished in accordance with sheets 8-9, 11-15, and 17-18 of the permit plans. In performing the work, 18" of topsoil from the wetland areas to be filled shall be removed and stockpiled in an upland area. Following construction of the bridges and approaches, the areas to be restored shall be excavated to an elevation 18" below the adjacent wetland, and the stockpiled topsoil shall be placed and graded to the approximate elevation of the surrounding wetlands.

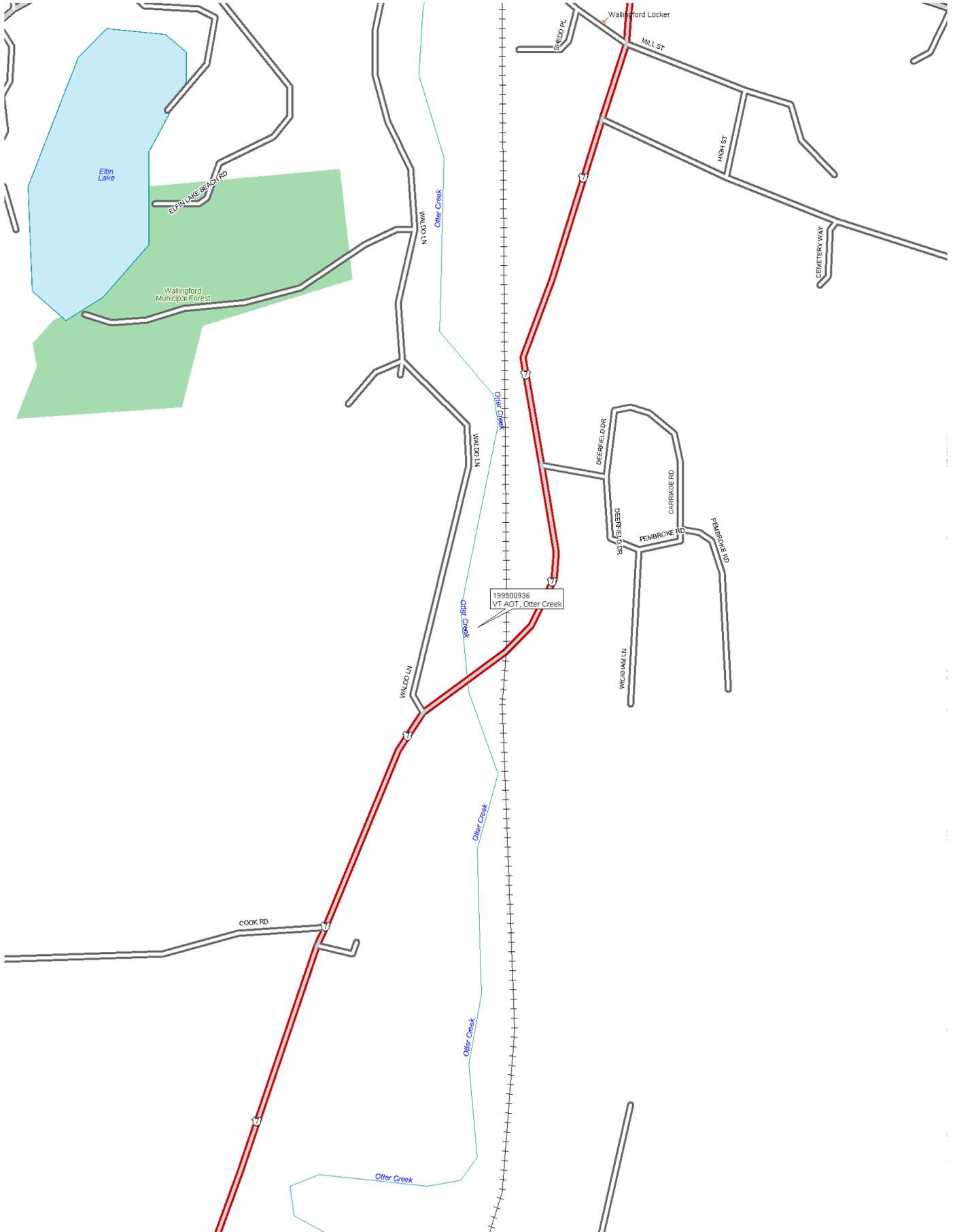
4. The mitigation areas shall be monitored during June, July, August, and September of each year for nuisance aquatic species (*Lythrum salicaria*) and (*Phragmites australis*). Specimens shall be hand pulled and destroyed before being allowed to establish.

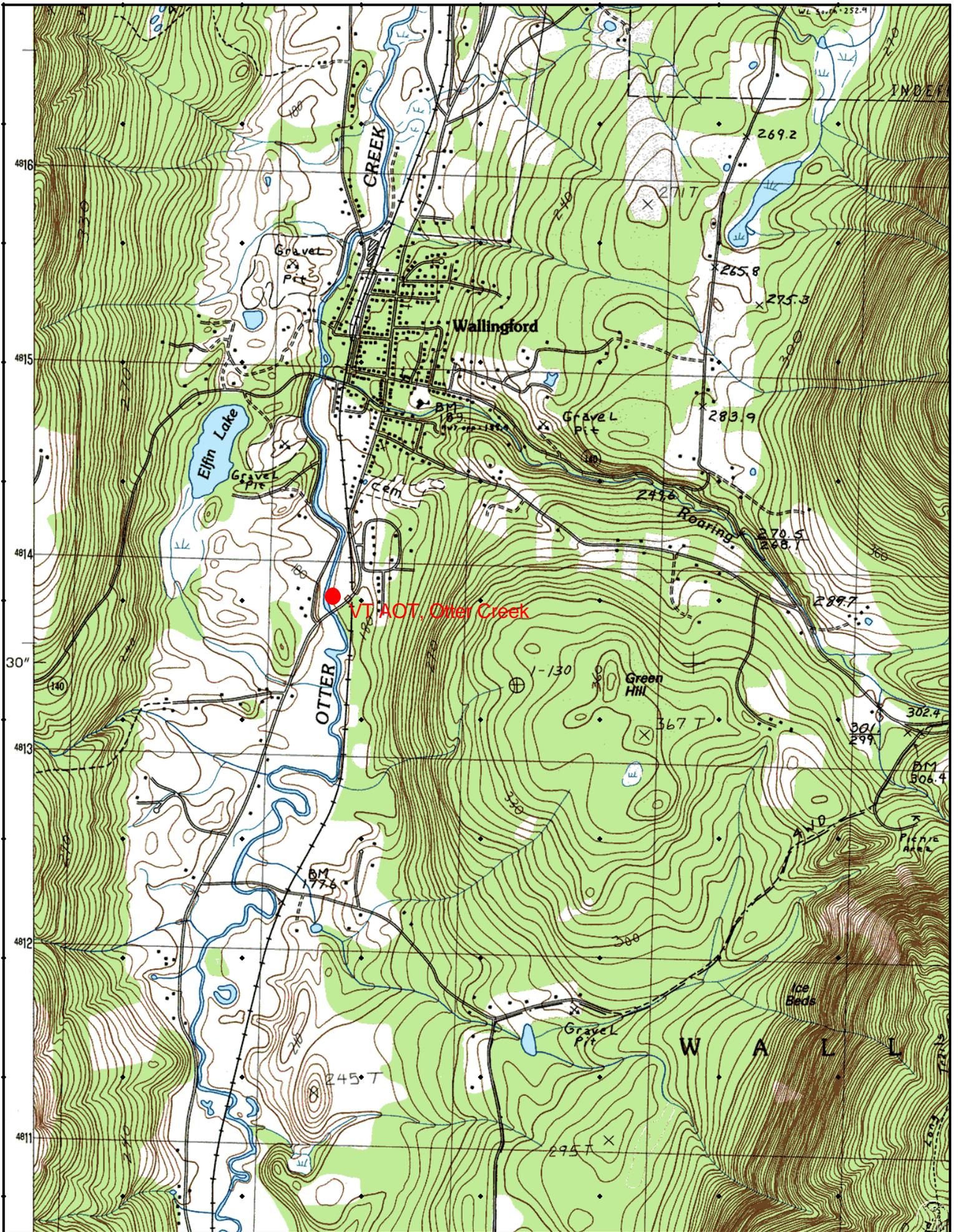
## **Remarks:**

None

## **Directions:**

Take Route 2 west to I-91 north towards Bernardston/Brattleboro, VT. Take exit 6 for Route 103 west. Just past Mount Holly, take Rt. 140 west towards Wallingford. In Wallingford, take Route 7 south. Pass Church Street on the left. Site is on the right just before Route 7 crosses the railroad.





MITIGATION SITE FIELD DATA FORM

Site Name: VTAOT-Otter Creek File No. 199500936

City/Town: Wallingford State: VT Waterbody: Otter Creek

Monitor(s): Keith Wright Date: 7-26-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: 0.7 acre

Actual size of wetland: approx. same

Landscape position: bottomland adjacent to Otter Creek floodplain

Lat/Long Points: 43.46118N 72.97974W

Saved GPS Waypoint name: OTT

GPD Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use: Highway, railroad tracks, wetland

Is wetland function compromised by surrounding land use? Yes. The transportation corridors on two sides of this site limit wildlife migration.

Plant health: Vigorous

Invasive species: Lythrum salicaria

Wildlife use: Frogs, sleeping depressions, multitude of birds

**Plants:**

- Acer saccharinum*
- Alnus rugosa*
- Asteraceae sp.
- Betula populifolia*
- Carex lurida*
- Eleocharis* sp.
- Eupatorium perfoliatum*
- Hypericum* sp.
- Juncus effusus*
- Lemnaceae sp.
- Lonicera* sp.
- Lotus corniculatus*
- Lythrum salicaria*
- Onoclea sensibilis*
- Phalaris arundinacea*
- Poaceae sp.
- Sagittaria latifolia*
- Salix* sp.
- Scirpus atrovirens*
- Scirpus validus*
- Solidago* sp.
- Typha angustifolia*
- Typha latifolia*
- Verbena hastata*

**Soils Data:**

DEPTH	HORIZON	MATRIX	REDOX	COMMENTS
0 – 10	A	10YR 3/2	15% oxidized rhizospheres	sandy loam
10 – 19	B	2.5Y 3/2	7.5YR 5/6, 5%	silt loam
19 – 32	C	5Y 4/1	7.5YR 4/6, 20%	silt loam
32+	C2	2.5Y 6/1	2.5Y 6/6, 15%	sand

**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:**

Site is accessible from highway 7 north about ½ mile south of Wallingford, VT. There are two bridges; one goes over highway 7 and one goes over railroad tracks. The creation part of this mitigation is adjacent to the east side of the highway between the two bridges. The exact location of the site’s bridges might not show up on most maps as they were moved slightly during construction.

The site is a long thin sedge meadow with a small (300 sq. ft.) ponded area with water covering one third of its surface. The site is surrounded by upland, a highway bordered by a steep grass hill, forested wetland, and railroad tracks. A water table was reached by auger at 2’7”.

Primary function of this wetland is floodflow alteration.

A monitoring well was placed in a 3.5 ft. hole. The well is above ground 11”. The approximate location of the well site, which is drawn on the site sketch, is four feet west of the western edge of the pond.

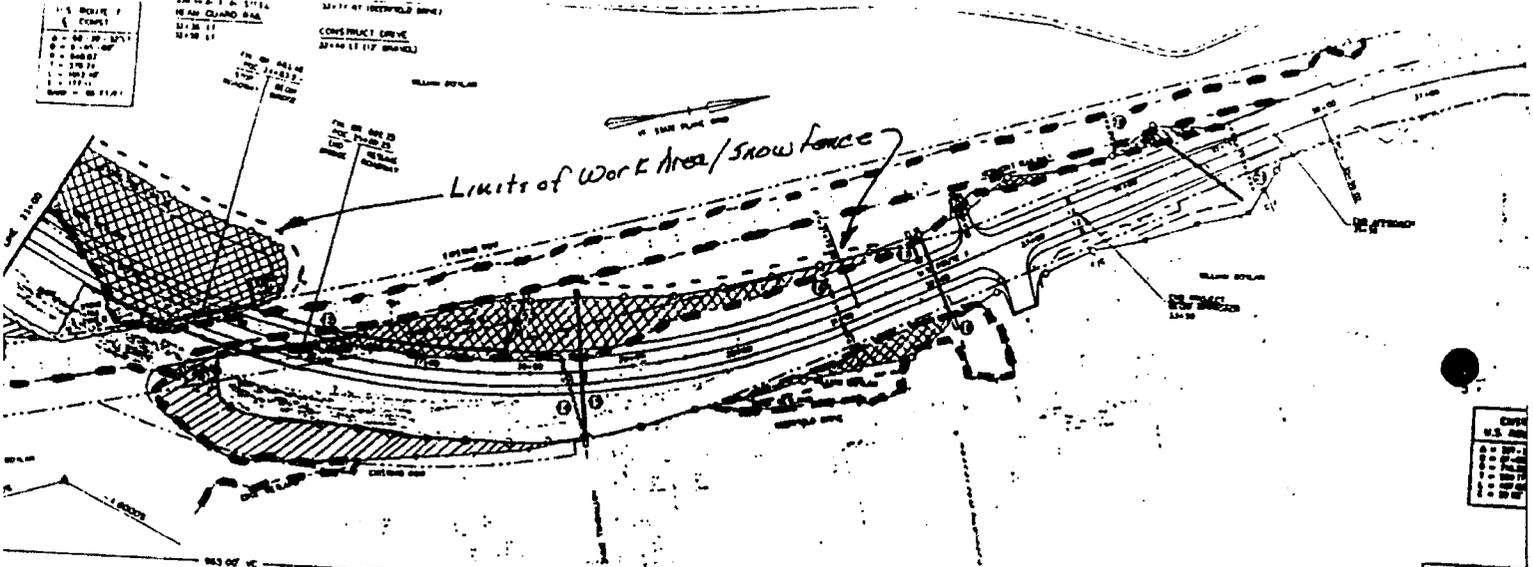
**Comments, problems, recommendations:**

A siltation fence separating the mitigation site from surrounding wetland could be removed. The mitigation site was built next to a wetland that is currently inundated with *Phragmites australis*.

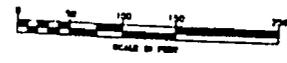
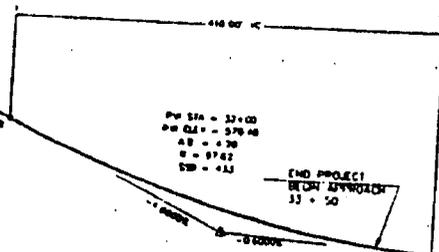
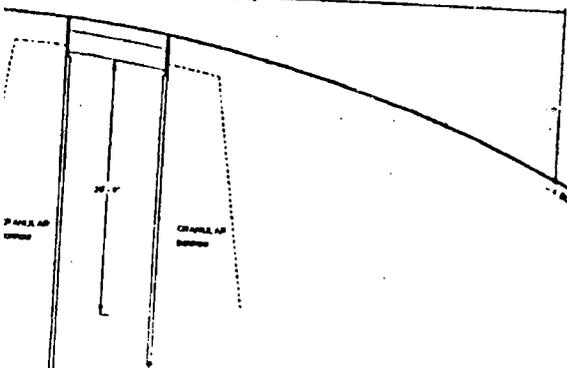
U.S. ROUTE 1  
 (COUNTY)  
 100' 00" 100'  
 100' 00" 100'  
 100' 00" 100'  
 100' 00" 100'  
 100' 00" 100'

ADJACENT TO STATE  
 ROAD CLEARING DIST.  
 11+38.11  
 11+38.11

CONTRACTOR'S OFFICE  
 20+44.11 (77' DISTANCE)



Limits of Work Area/Snow Fence



LOCATION	REMARKS
22+10 LT	REMOVE 24' COMP
22+10-20+00 LT	NEW 12" DIA PCCP 60# OF CAMP 60# POP CLASS II @ PROPOSED STONE FILL PAD TYPE I
22+30 RT-L	REMOVE 24' COMP
22+30 RT-L	NEW 12" DIA PCCP 60# OF CAMP 60# POP CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II
22+30 RT-L	REMOVE 24' COMP
22+30 RT-L	NEW 12" DIA PCCP 60# OF CAMP 60# POP CLASS II @ PROPOSED STONE FILL PAD TYPE I
22+30 RT-L	NEW 12" DIA PCCP 60# OF CAMP 60# POP CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II
22+30 RT-L	REMOVE 24' COMP
22+30 RT-L	NEW 12" DIA PCCP 60# OF CAMP 60# POP CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II @ PROPOSED STONE FILL PAD TYPE I @ 60# OF CLASS II
22+30 RT-L	REMOVE 24' COMP



END APPROACH  
 35+50

22+10	22+20	22+30	22+40	22+50	22+60	22+70	22+80	22+90	23+00	23+10	23+20	23+30	23+40	23+50	23+60	23+70	23+80	23+90	24+00	24+10	24+20	24+30	24+40	24+50	24+60	24+70	24+80	24+90	25+00
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

DATE: 1/20  
 DRAWN BY: J.L.C.  
 CHECKED BY: J.L.C.  
 SCALE: 1"=40'  
 SHEET NO. 13  
 TOTAL SHEETS: 13

WALLINGFORD BRS 0137 (13)  
 1/20

**PLANT LIST**

**SHRUBS:**

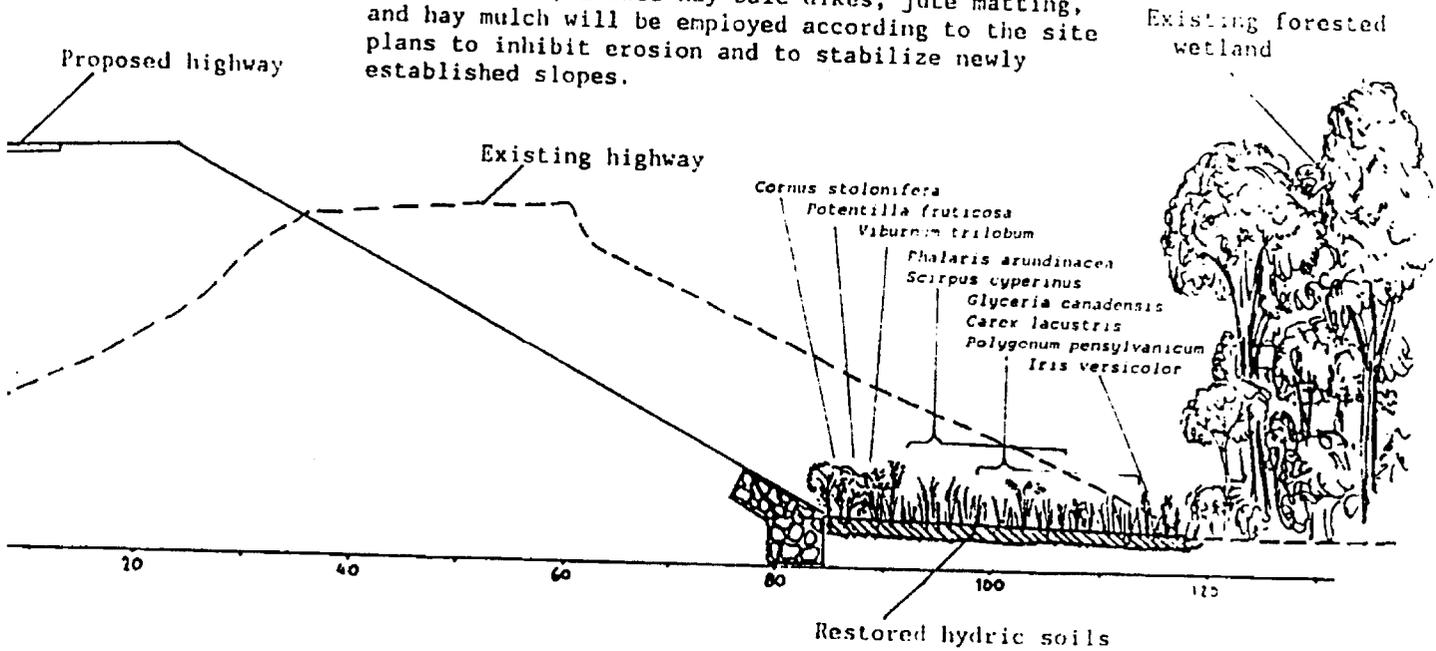
Red-osier dogwoods (*Cornus stolonifera*), 2'-3' bare root, planted 4' on center in two rows (ca. 50/hundred feet of edge)

**GROUND COVER**

Reed canary-grass (*Phalaris arundinacea*) sown at a rate of 30 pounds per acre.

**EROSION CONTROL MEASURES**

Silt barriers, staked hay-bale dikes, jute matting, and hay mulch will be employed according to the site plans to inhibit erosion and to stabilize newly established slopes.



4. Wetland restoration area: typical cross-section and planting scheme.

WALLING FORD BRS 0137 (13)  
13 | 20

# Wetland Function-Value Evaluation Form

Total area of wetland 0.88 ac Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"?

Adjacent land use RR, highway, wetland Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PEM Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? adjacent to wetland bordering creeks

How many tributaries contribute to the wetland? none Wildlife & vegetation diversity/abundance (see attached list)

VT AOT – Otter Creek  
Wetland I.D. 199500936

Latitude N43.46118 Longitude W72.97974

Prepared by: Wright Date 7/26/02

Wetland Impact:  
Type \_\_\_\_\_ Area \_\_\_\_\_

Evaluation based on:  
Office \_\_\_\_\_ Field X

Corps manual wetland delineation  
completed? Y \_\_\_\_\_ N X

Function/Value	Suitability		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
	Y	N			
 Groundwater Recharge/Discharge		X			
 Floodflow Alteration	X		5,6,9,10,13	X	
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X		1,2,3,4,7,10		
 Nutrient Removal	X		1,2,3,4,5,6,8		
 Production Export		X			
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat		X			
 Recreation		X			
 Educational/Scientific Value		X			
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
<b>ES</b> Endangered Species Habitat		X			
Other					

Notes:

\* Refer to backup list of numbered considerations.

199500936  
VTAOT Otter Creek  
Wallingford, VT  
7/26/02



Looking north at the site

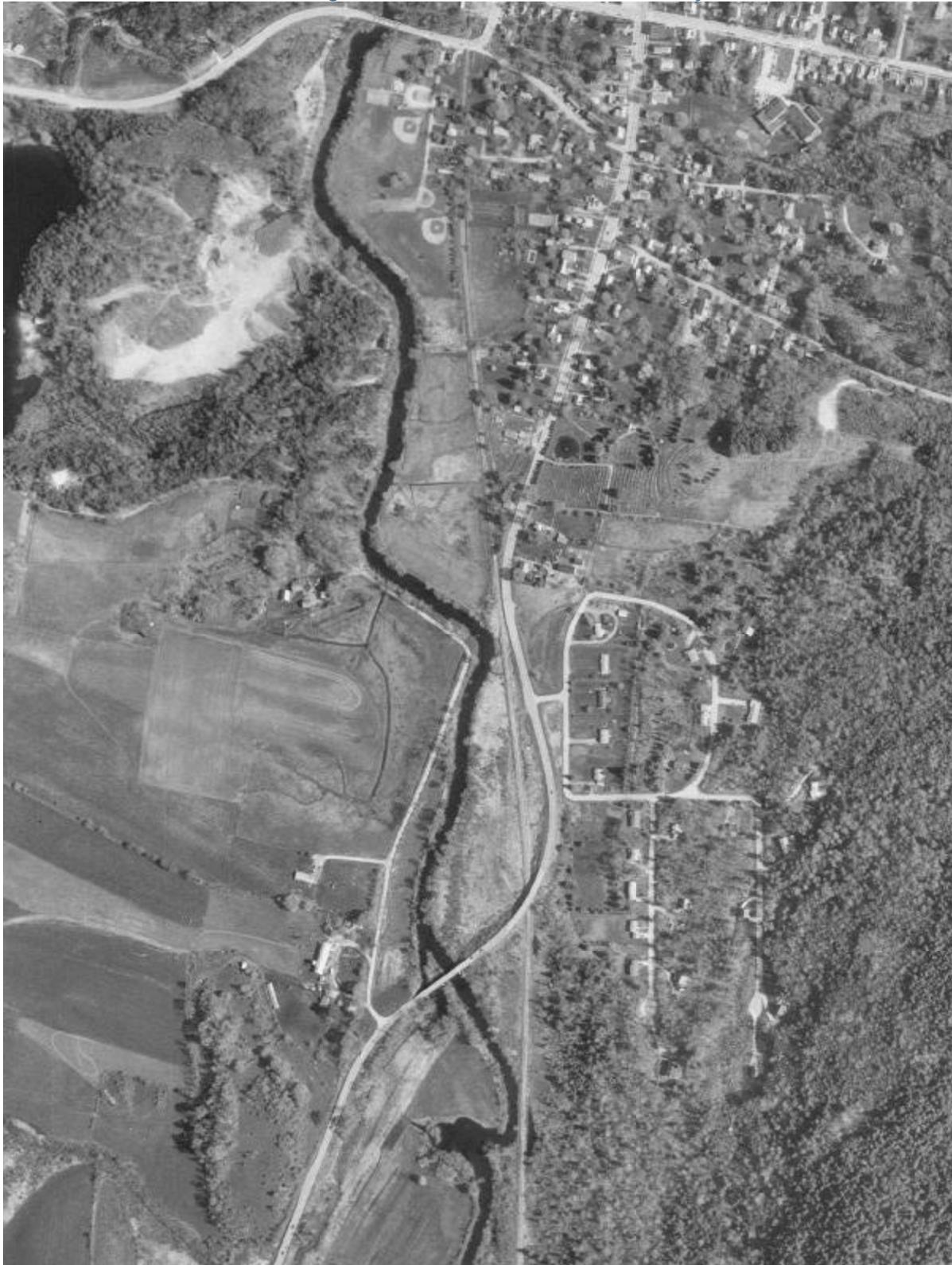


Looking south and southwest with Otter Creek in the distance



Small pond near Otter Creek

USGS Wallingford, Vermont, United States 09 May 1994



0 200M

0 200yd

Image courtesy of the U.S. Geological Survey  
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