

# CT DOT – Route 91

**File No.:** 198800859

**City and State:** Windsor, CT

**General Impacts:**

2.8 acres non-tidal emergent

1.3 acres non-tidal forested

**Functions and Values Lost:** (From EA/SOF)

Floodflow Alteration

Nutrient Removal

Sediment Retention

Wildlife Habitat

Recreation

**Year(s) Mitigation Constructed:** Unknown

**Size and Type of Mitigation as Proposed:** 4.8 acres non-tidal open water

**Proposed Functions and Values of Mitigation:**

Nutrient Retention

Wildlife Habitat

**Mitigation Special Condition(s):**

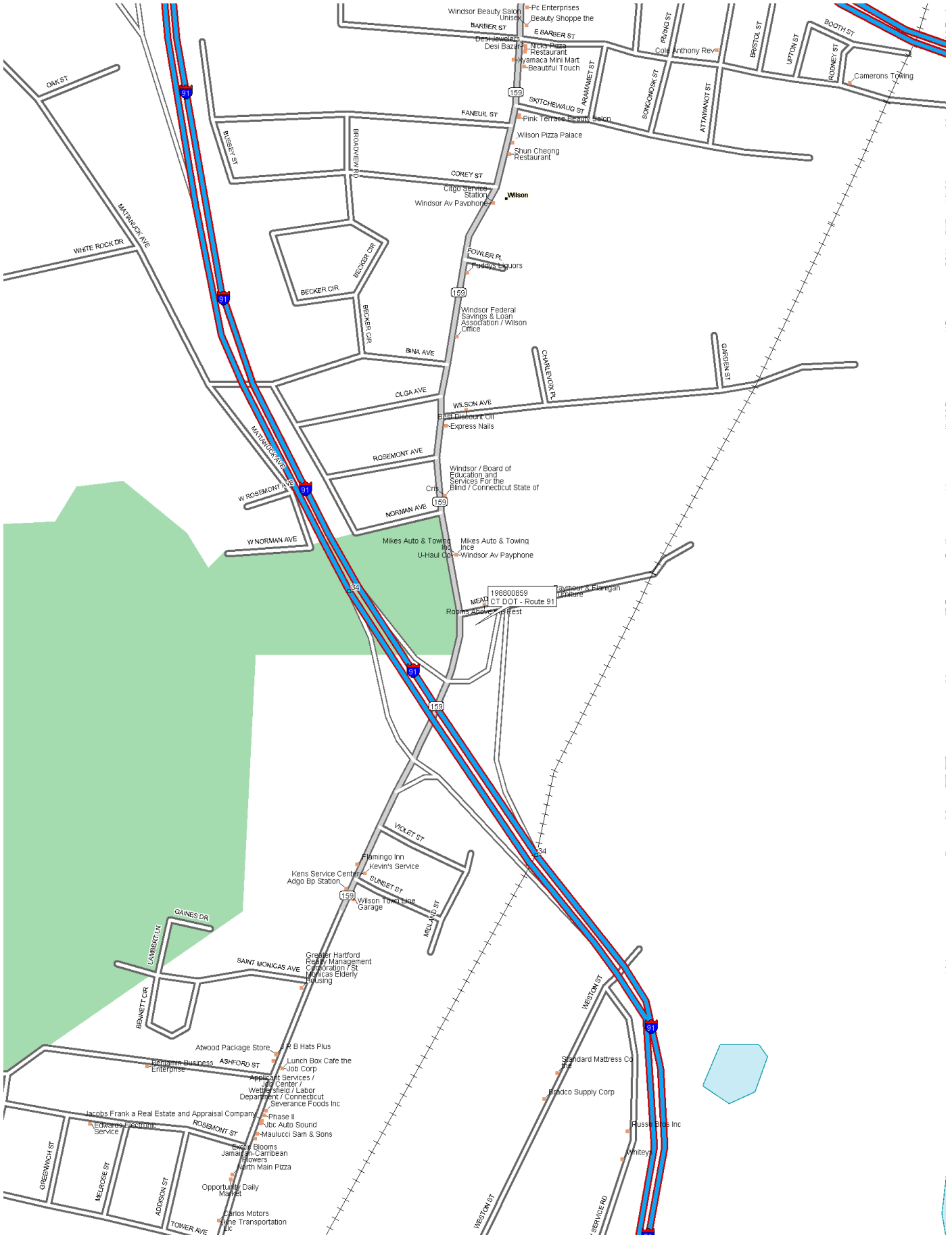
1. All areas of wetlands, which are disturbed during construction, shall be restored to their approximate original elevation (but not higher) and condition by careful protection, and/or removal and replacement, of existing soil and vegetation. In addition, if upland clearing, grubbing, or other construction activity results in, or may result in, soil erosion with transport and deposition into a wetland or waterway, devices such as geotextile silt fences, sediment trenches, etc., shall be installed and properly maintained to minimize such impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland in a manner that will prevent its later erosion and transport to a waterway or wetland.

**Remarks:**

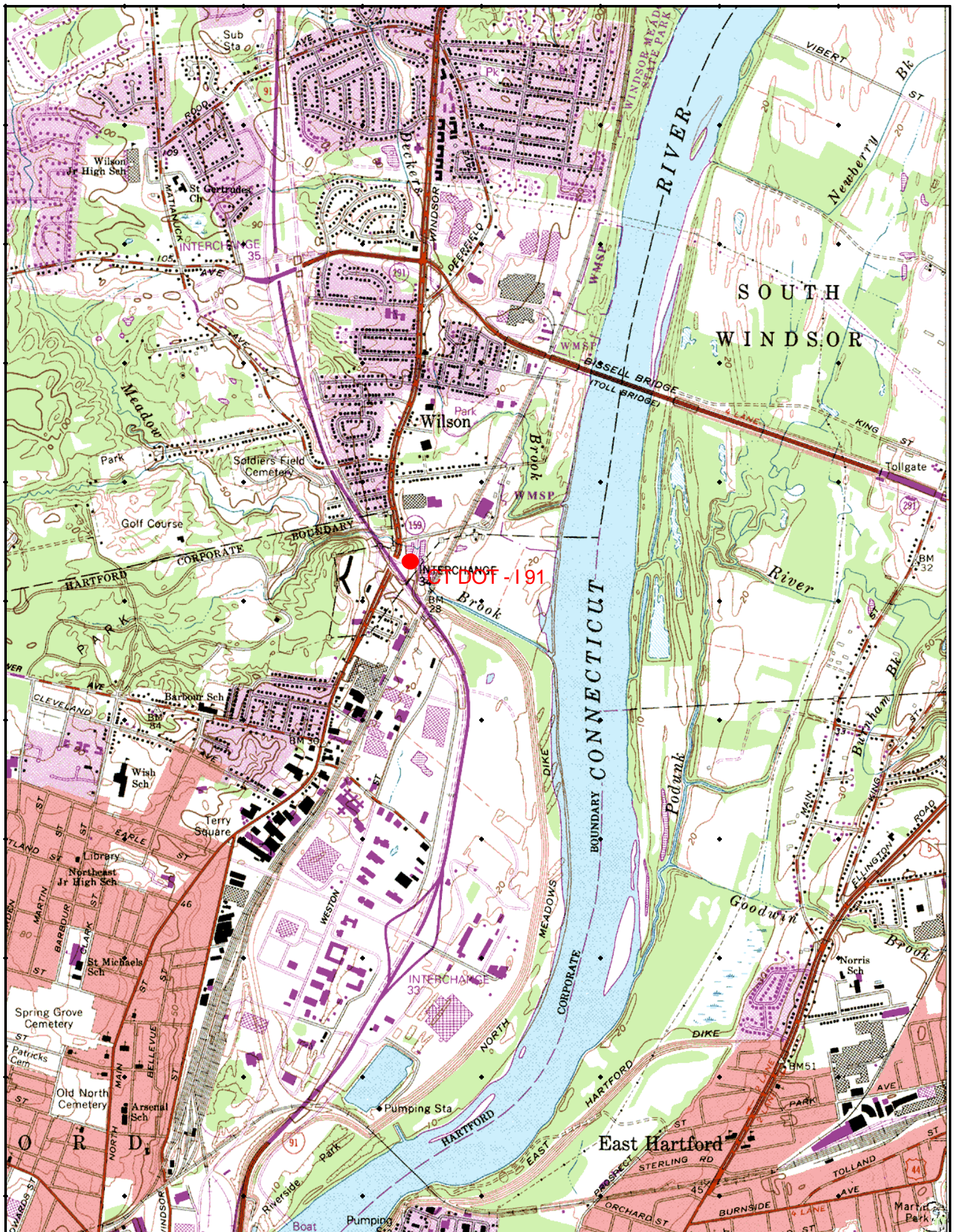
None

**Directions:**

Take 128/95 south to I-90 west to 84 west to exit 61, I-291. Take exit 3 to CT-159. Take a left onto Deerfield Road, then a left onto Windsor Avenue, and then a left onto Meadow Road.









## MITIGATION SITE FIELD DATA FORM

**Site Name:** CTDOT Rt. I-91 Widening—Mitigation Site A **File No.:** 198800859

**City/Town:** S. Windsor/Hartford **State:** CT **Waterbody:** Meadow Brook (discharges into Conn. R.)

**Monitor(s):** Ladd **Date:** 10-10-02

**Was site constructed?**      yes

**Is site wetland?**      site is primarily open water  
with less than 1/3 of area as wetland.

**Size of proposed wetland:** 4.8 acres

**Actual size of wetland:**    appears to be as  
designed.

**Landscape position:**    riparian

**Lat/Long Points:** N41.80601, W072.65704

**Saved GPS Waypoint name:** I91

**GPS Tracking Log Name:** N/A

**Perimeter:** TBD

**Surrounding land use:**  
Highway, railroad, and farm field behind line of  
trees on east side of site.

**Is wetland function compromised by  
surrounding land use?**  
Yes

**Plant Health:**  
Okay

**Invasive Species:**  
*Lythrum salicaria* (purple loosestrife) is  
common, *Typha latifolia* (broadleafed cattail) is  
dominant in the emergent areas; *Celastrus*  
*orbiculata* (Asian bittersweet) and *Phragmites*  
*australis* (phragmites) are present just offsite.

### Wildlife Use:

None observed but likely to be  
used by songbirds, migratory waterfowl,  
possibly pollution-tolerant fish, and possibly  
muskrats.

### Plants:

NOTE: all observations from outside fence  
around entire site.

*Acer negundo* (box-elder)  
*Acer rubrum* (red maple) – to 15'  
*Alnus rugosa* (speckled alder)-to 20'  
*Aster* sp. (aster)  
*Celastrus orbiculata* (Asian bittersweet)  
*Cornus amomum* (silky dogwood)  
*Impatiens capensis* (jewelweed)  
*Lythrum salicaria* (purple loosestrife)  
*Phragmites australis* (phragmites) (may be off  
mitigation area on south end)  
*Polygonum sagittatum* (arrow-leaved tearthumb)  
*Salix nigra* (black willow)  
*Sambucus canadensis* (elderberry)  
*Scirpus cyperinus* (woolgrass)  
*Sparganium* sp. (burreed)  
*Typha latifolia* (broadleafed cattail)  
*Ulmus americana* (American elm) – to 30'  
*Viburnum dentatum* (arrowwood)  
*Vitis* sp. (grape)

**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 field notes

**Overall Description of site:**

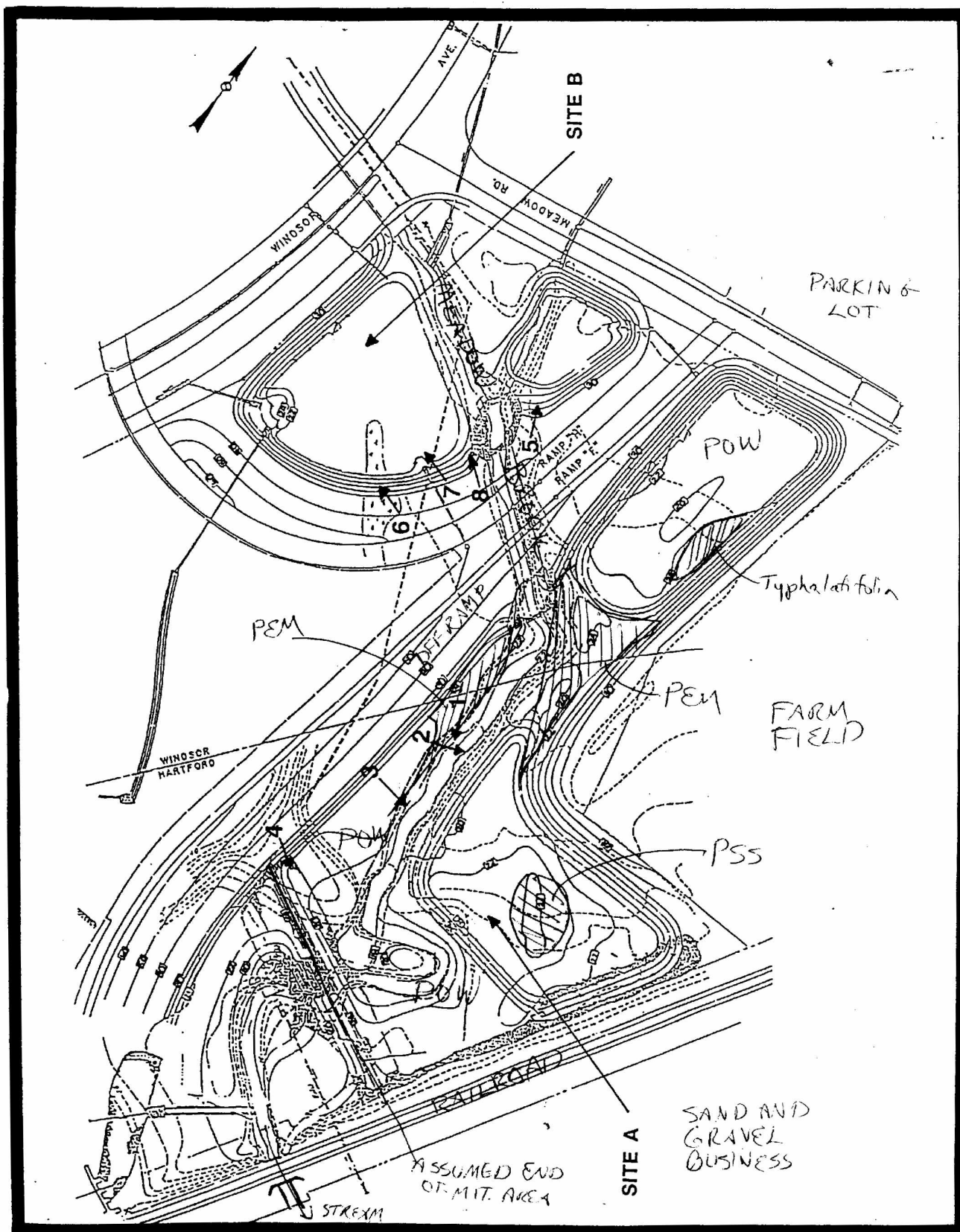
Site is bounded by steep slopes to the highway and the railroad. There is a fringe of forested upland between the site and a farm field to the east. There is a PSS island in the southern ponded area which does not seem to be as shown on the design—it is further east. The stream enters from Mitigation Site B to the west via a culvert, passes through an herbaceous wetland dominated by cattail and loosestrife, is ponded in the southern portion of the site and then discharges through what is an “undisturbed” area to the south before it flows under the railroad bed and eventually joins the Connecticut River.

**Comments, problems, recommendations:**

Algal mats are abundant in southern ponded area and are probably indicative of nutrient loading from the stream. The water is very turbid in the northern ponded area but there are no algal mats.

The entire site is surrounded with a 6' chain link fence with no apparent gate. Because of the surrounding land uses, it is unlikely there would be much animal movement if the fence was not there other than deer and raccoon and possibly muskrat.

The site is stable and densely vegetated except in the POW areas. However, the banks are steep so the band of wetland is very narrow except for a patch of cattail on the east side of the northern ponded area, a swath of emergent wetland with some shrubs where the stream enters from the west, and an island with shrubs on the east side of the southern ponded area.



Project #63-358  
 Site Plan  
 Plate 2

# Wetland Function-Value Evaluation Form

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

Adjacent land use highway, railroad, farmfield Distance to nearest roadway or other development 0

Dominant wetland systems present POW w/PEM and PSS 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? low end

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

CT DOT I-91 Widening  
Wetland I.D. 198800859













Latitude N41.8060 Longitude W72.65704

Prepared by: Ladd Date 10/10/02

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			unlikely
 Floodflow Alteration	X			X	confined outlet
 Fish and Shellfish Habitat	X				very limited because of likely pollutants, turbidity
 Sediment/Toxicant Retention	X				limited because of small percentage of area being vegetated
 Nutrient Removal	X				limited but presence of dense algae suggests function is occurring
 Production Export		X			very minimal
 Sediment/Shoreline Stabilization	X				only along portion of stream – very limited
 Wildlife Habitat	X				very limited by fence and surrounding land uses
 Recreation		X			no access
 Educational/Scientific Value		X			no access
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
<b>ES</b> Endangered Species Habitat		X			
Other					

Notes:

\* Refer to backup list of numbered considerations.



198800859  
CTDOT Rt. 91 Widening  
Windsor, CT  
10/10/02

**Site A**



Looking north and east at northern ponded area from west side of site next to I-91 off-ramp



Looking east and south at northern ponded area from west side. Cattail area in center is near where stream enters culvert under I-91 ramp and connects to mitigation site B to the west.



Looking southwest and west from northeast corner of southern lobe. Note island and algae in the water.



USGS 4 km SW of South Windsor, Connecticut, United States 13 Apr 1992



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey  
© 2003 Microsoft Corporation. All rights reserved.