

Great River Golf Course

File No.: 199801738

City and State: Milford and Orange, CT

General Impacts:

0.42 acre permanent

0.23 acre secondary

Functions and Values Lost:

Wildlife Habitat

Sediment Trapping

Year(s) Mitigation Constructed: Fall 2000

Size and Type of Mitigation as Proposed:

0.9 acre PFO

0.17 acre wooded buffer

0.71 acre PEM (wet meadow)

1.84 acres POW

0.09 acre PEM (marsh)

0.07 acre of 3 vernal pools

Proposed Functions and Values of Mitigation: (From Database)

Wildlife Habitat

Sediment/Toxicant Retention

Nutrient Removal

Aesthetics

Mitigation Special Condition(s):

1. Mitigation shall be performed in accordance with the mitigation plan entitled "Wetland Mitigation, Great River Golf Course and Residential Community, Milford and Orange, Connecticut" and dated "August 5, 1999", except where modified by the special conditions of this permit. (Need to see where modified.)

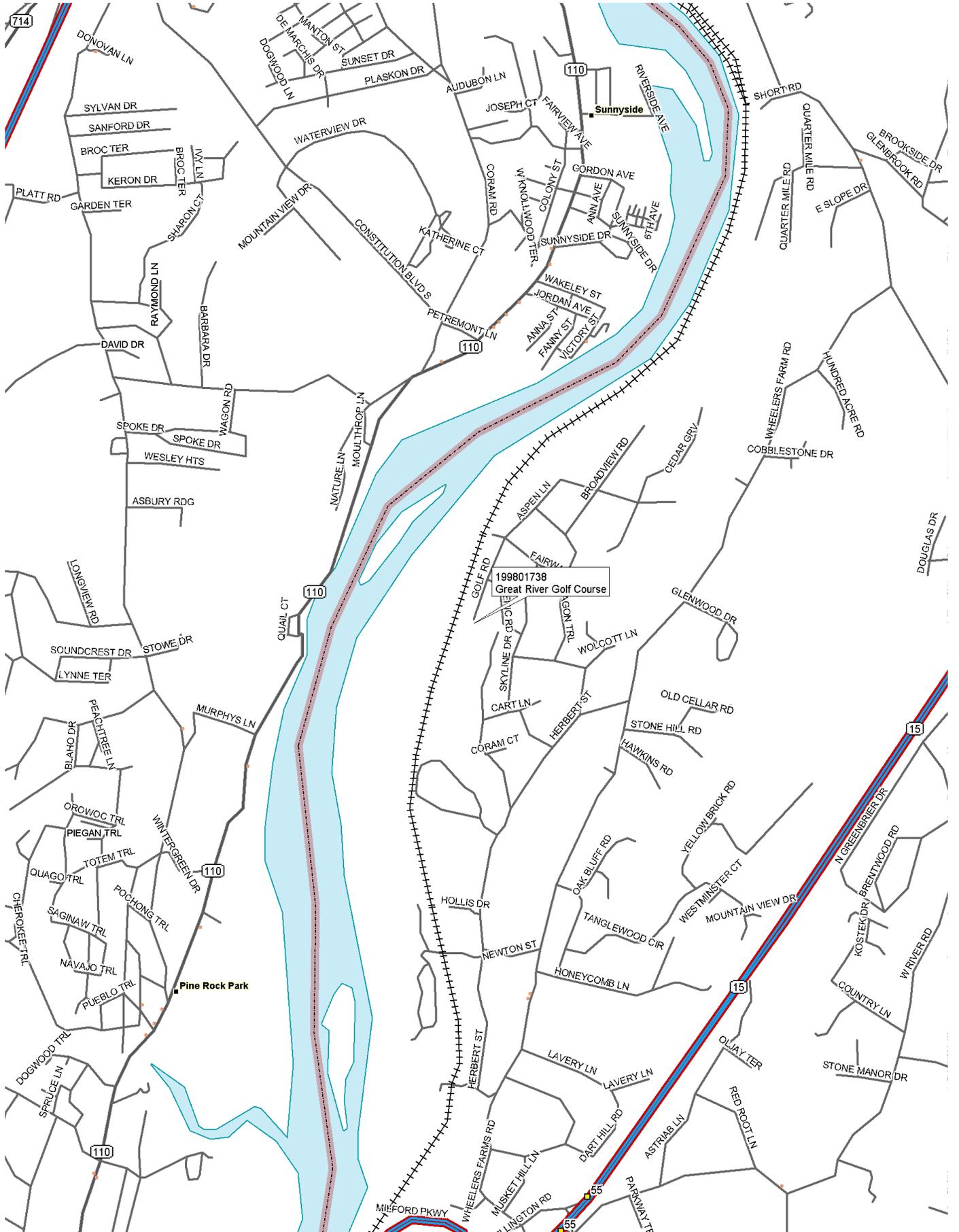
Remarks:

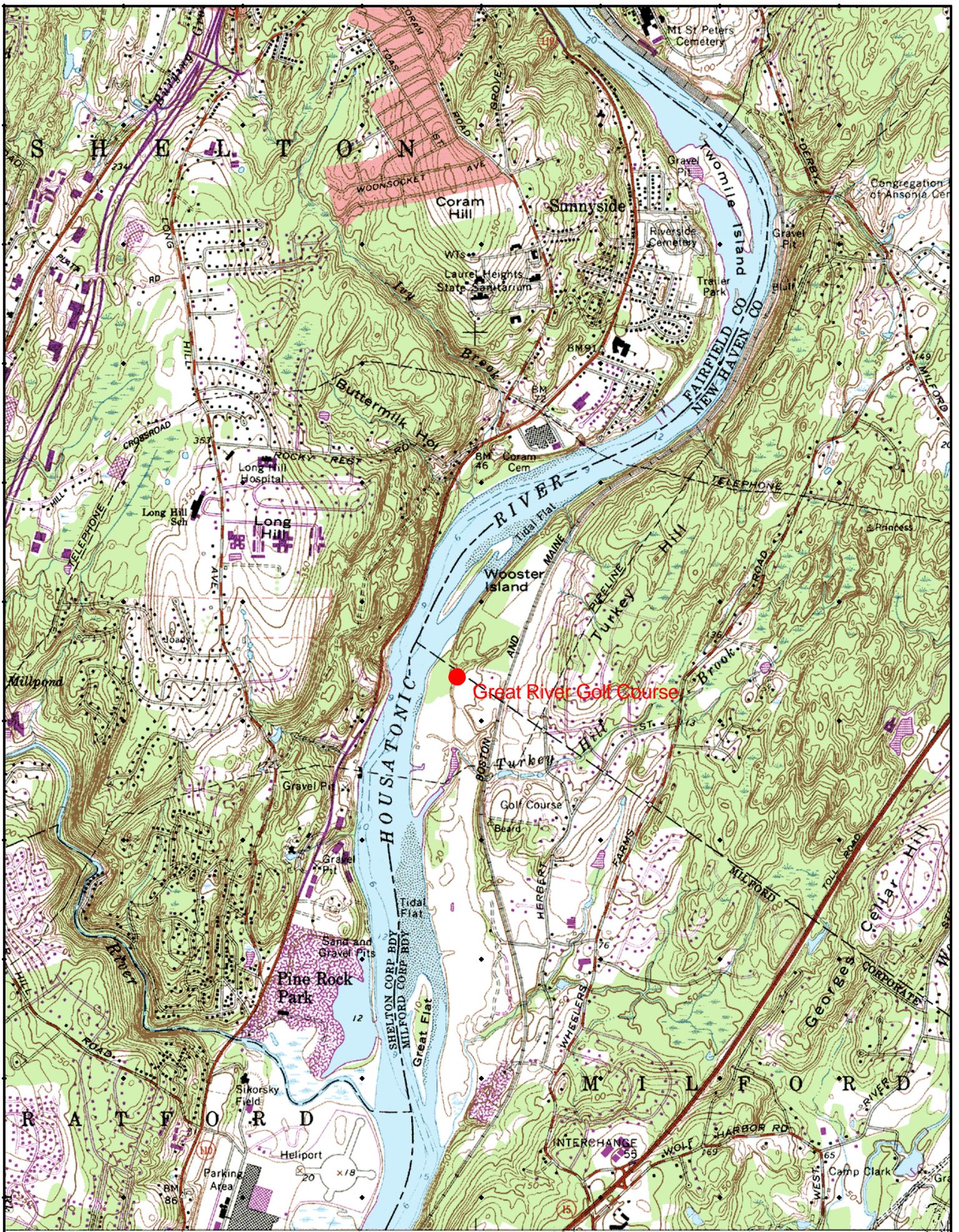
None

Directions:

Take 128/95 south. In the Dedham area, stay on I-95 by taking the exit. Take exit 38, connector to Route 15 north (Wilbur Cross Parkway) in Milford. Take the exit for

Wheeler's Farms Road. Go north following Herbert Road. The subdivision is on both sides of the road. The golf course is on the left after passing through the subdivision.





MITIGATION SITE FIELD DATA FORM

Site Name: Great River Golf Course File No. 199801738

City/Town: Orange State: CT Waterbody: Housatonic River

Monitor(s): Keith Wright, Willie Wilson, GRGC groundskeeper Date: 8-27-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland:

- 0.9 acre PFO
- 0.17 acre wooded buffer
- 0.71 acre PEM (wet meadow)
- 1.84 acres POW
- 0.09 acre PEM (marsh)
- 0.07 acre of 3 vernal pools

Actual size of wetland: TBD

Landscape position: riverside

Lat/Long Points: 41.27529N 73.08394W

Saved GPS Waypoint name: GRG

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:

Golf course

Is wetland function compromised by surrounding land use?

Wetlands are essentially habitat islands and as such provide limited access to wildlife.

Plant health:

Good

Invasive species:

Phragmites australis, Lythrum salicaria

Wildlife use:

None observed

Plants:

Vernal pool: No vegetation.

6th tee:

- Alnus rugosa*
- Carex stricta*
- Impatiens capensis*
- Iris* sp.
- Lythrum salicaria*
- Onoclea sensibilis*
- Phragmites australis* was dominant

Soils Data:

Soils data was not collected due to uncertainty of sites constructed.

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:

A wet meadow was built at the 6th tee. Vernal pools were built at the 9th hole and west of the 18th fairway.

Comments, problems, recommendations:

The permit for this site entailed a golf course and a residential component. The residential part of this project is nearly completed but according to Alfred Lenoci, General Manager, the residential sites were sold. To date no mitigation reports have been filed on the residential part of this project.

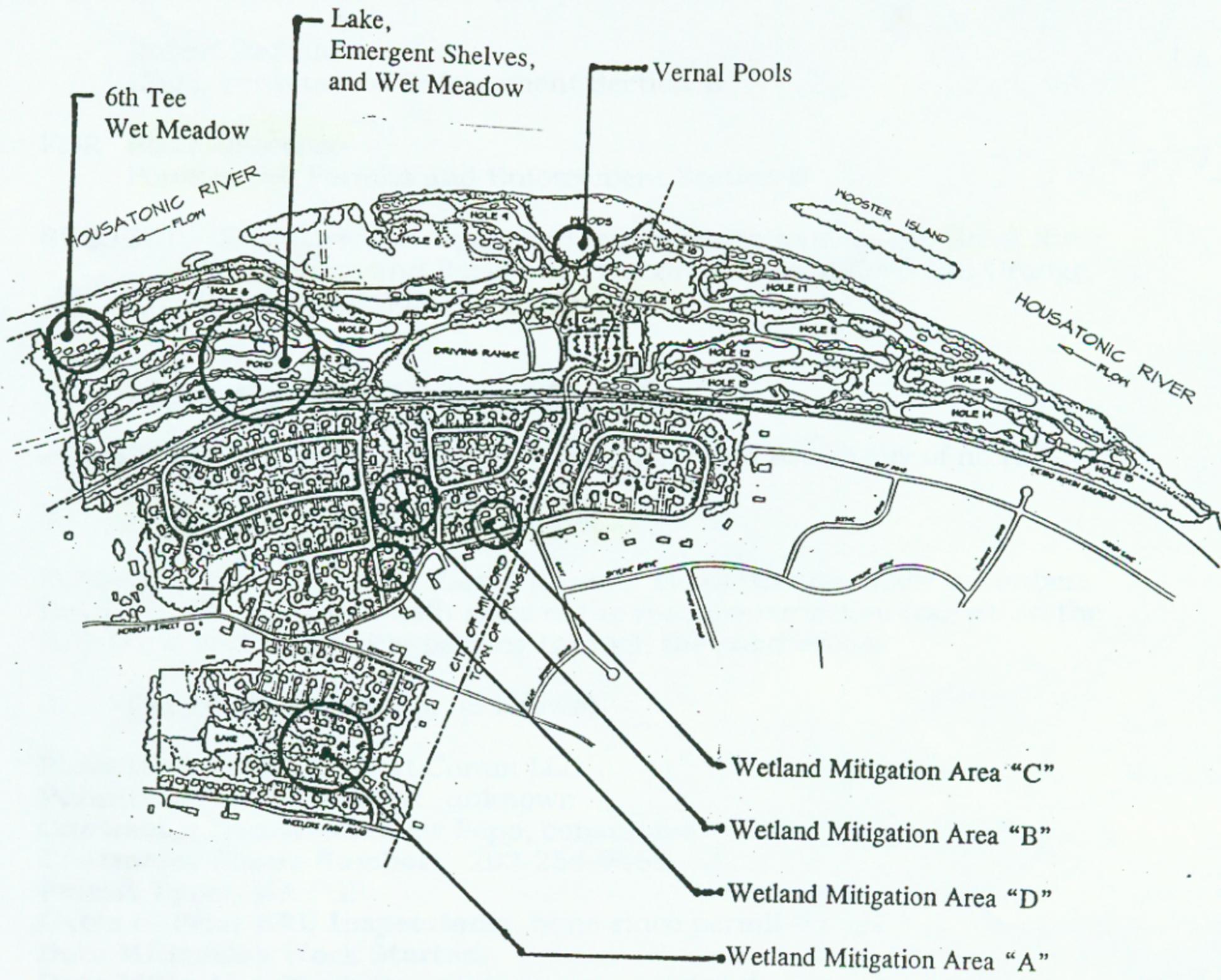
The golf course mitigation has some problems associated with it:

Wetland creation at the 6th tee is substantially smaller than what was required in the permit, and *Phragmites australis* occupies much of the mitigation area.

No vernal pool species were observed in the vernal pools.

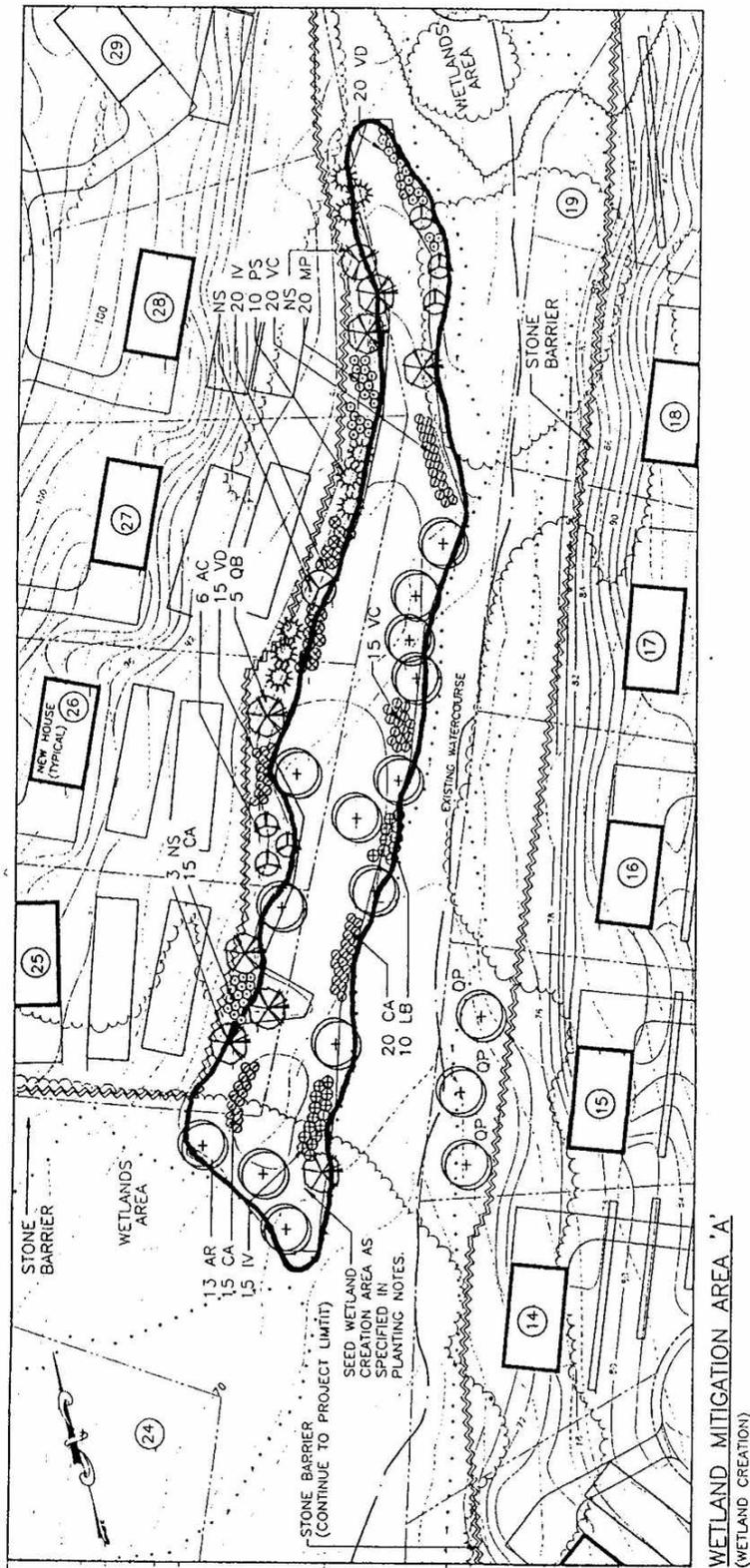
Documentation is difficult to follow, which makes monitoring this project quite difficult. The groundskeeper was confused about where the mitigation sites were. He showed a riverside boardwalk as the 6th tee mitigation site, yet subsequent conversation revealed that it was not part of the mitigation.

High golfer volume and limited time impeded this site visit. A late fall visit would be advantageous.

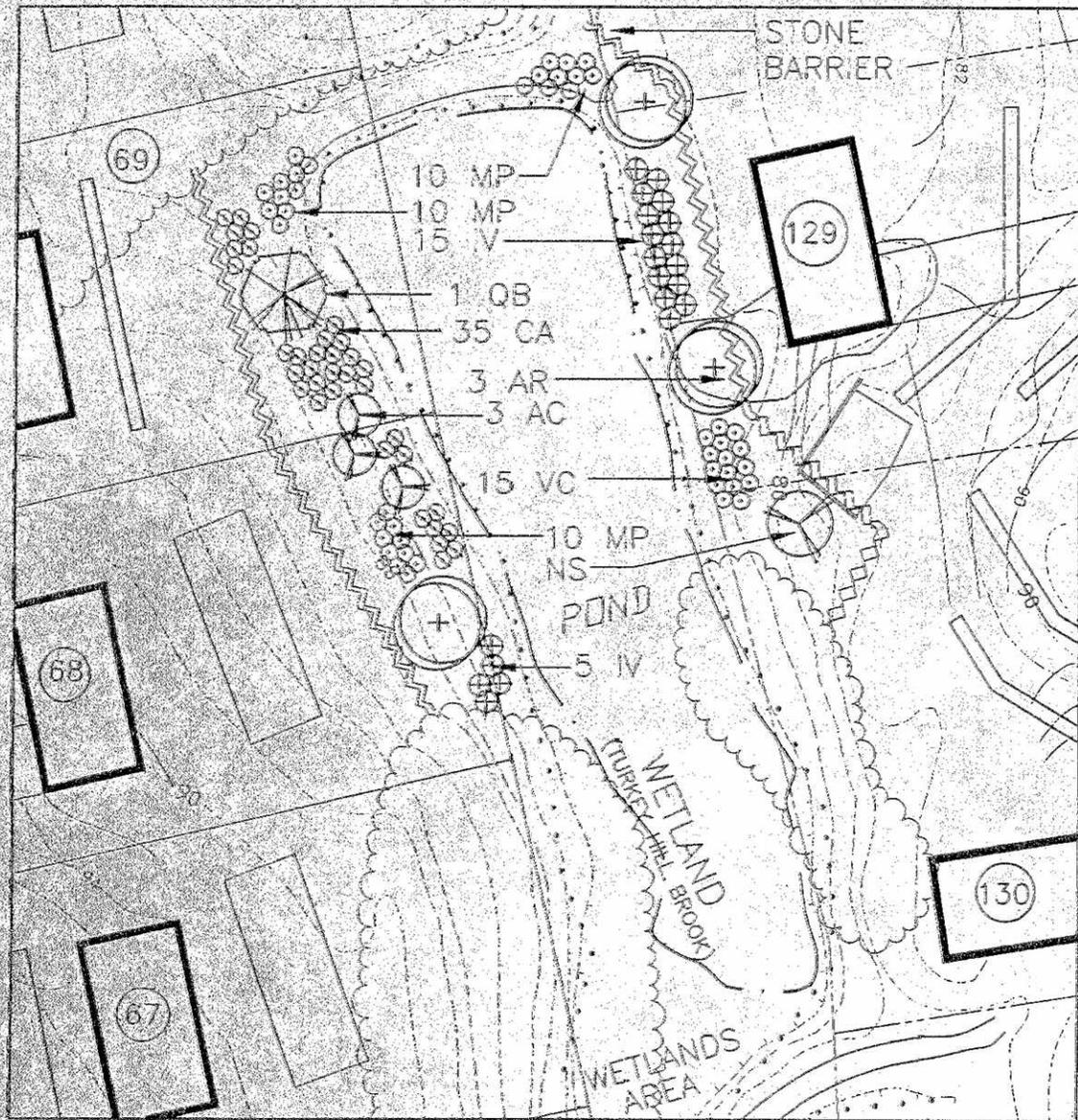


Note:
 See plans previously submitted for grading and planting of 6th Tee Wet Meadow, Vernal Pools, and Lake/Emergent Shelves/Wet Meadow areas.

ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 424 Kings Highway East, Fairfield, CT 06430 Tel: (203) 834-4222 Fax: (203) 833-1462	Drawing Title: MITIGATION SITE MAP	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 6 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7856	Scale: NTS Date: April 13, 1999	Sheet No.: 1



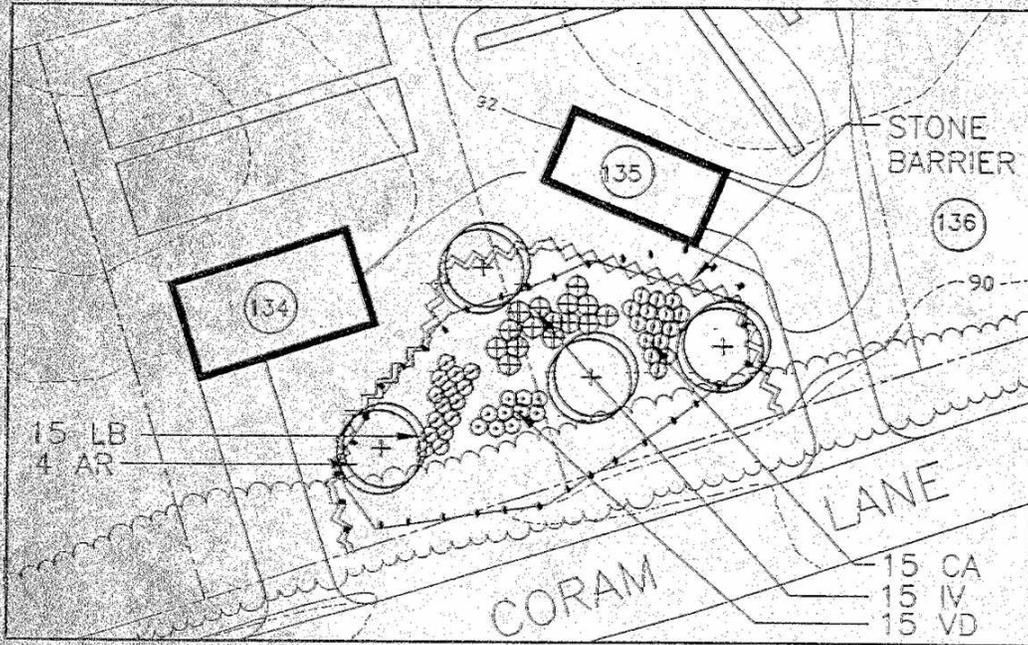
ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 929 Kings Highway East, Fairfield, CT 06430 Tel: (203) 334-9222 Fax: (203) 333-1462	Drawing Title: WETLAND MIT. AREA "A"	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7836	Scale: 1" = 80' Date: April 13, 1999	Sheet No.: 2



WETLAND MITIGATION AREA 'B'
(WETLAND BUFFER ENHANCEMENT)



ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 929 Kings Highway East, Fairfield, CT 06430 Tel: (203) 934-9222 Fax: (203) 933-1462	Drawing Title: WETLAND MIT. AREA "B"	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7877 Fax: (203) 855-7878	Scale: 1" = 60'	Sheet No.: 3
Date: April 13, 1999		

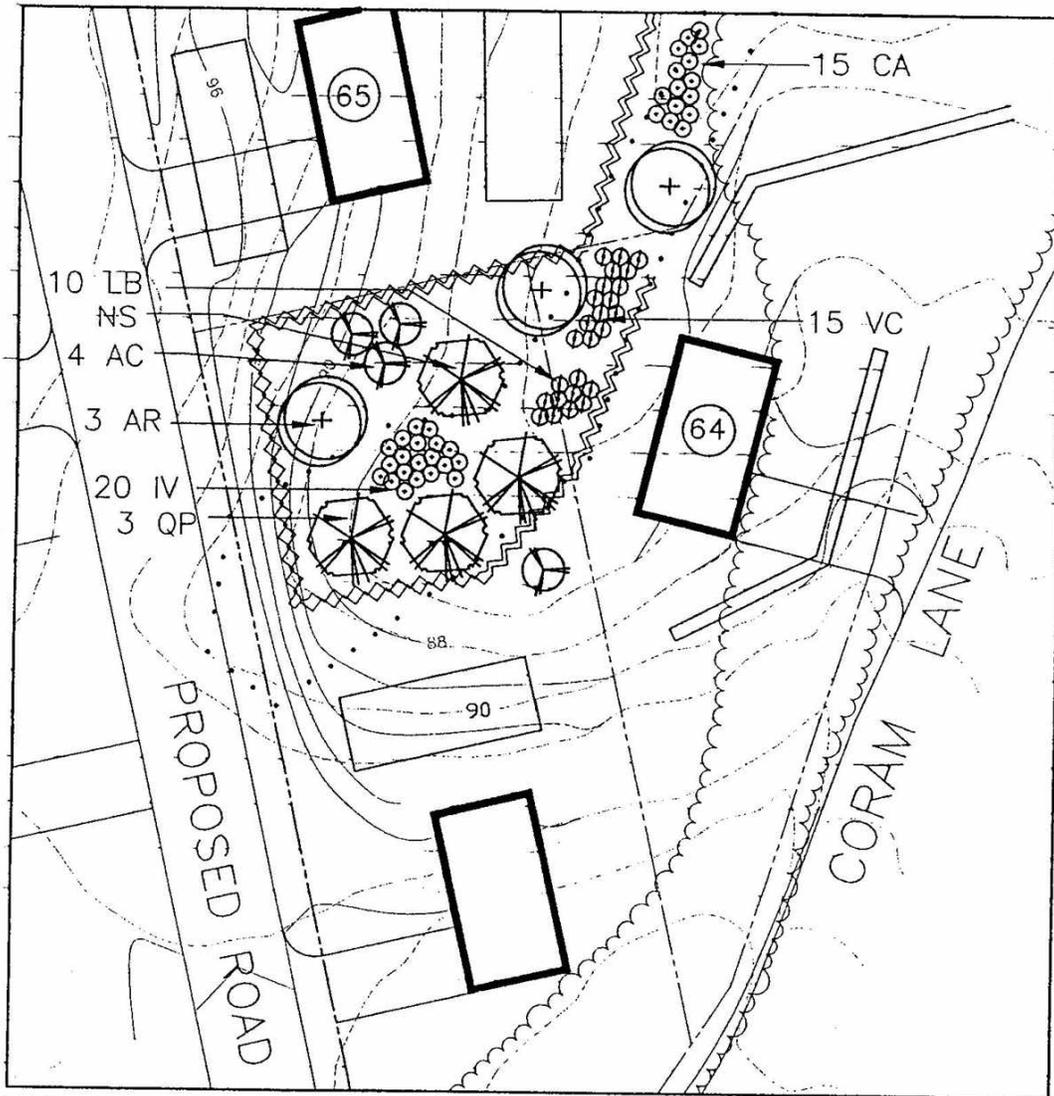


WETLAND MITIGATION AREA 'C'

(WETLAND ENHANCEMENT)



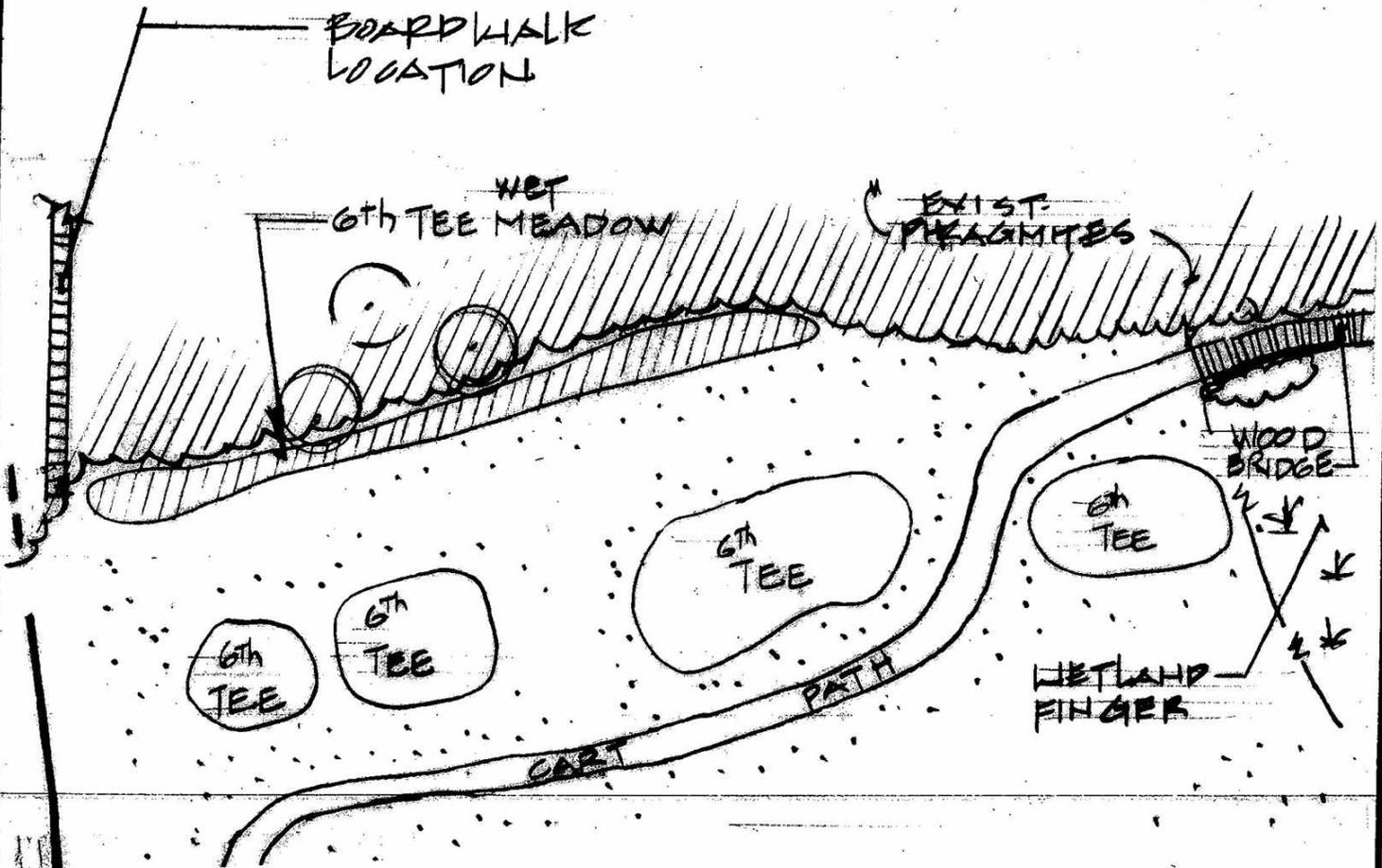
ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 929 Kings Highway East, Fairfield, CT 06430 Tel: (203) 334-9222 Fax: (203) 333-1462	Drawing Title: WETLAND MIT. AREA "C"	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7836	Scale: 1" = 60' Date: April 13, 1999	Sheet No.: 4



WETLAND MITIGATION AREA 'D'
(WETLAND ENHANCEMENT)

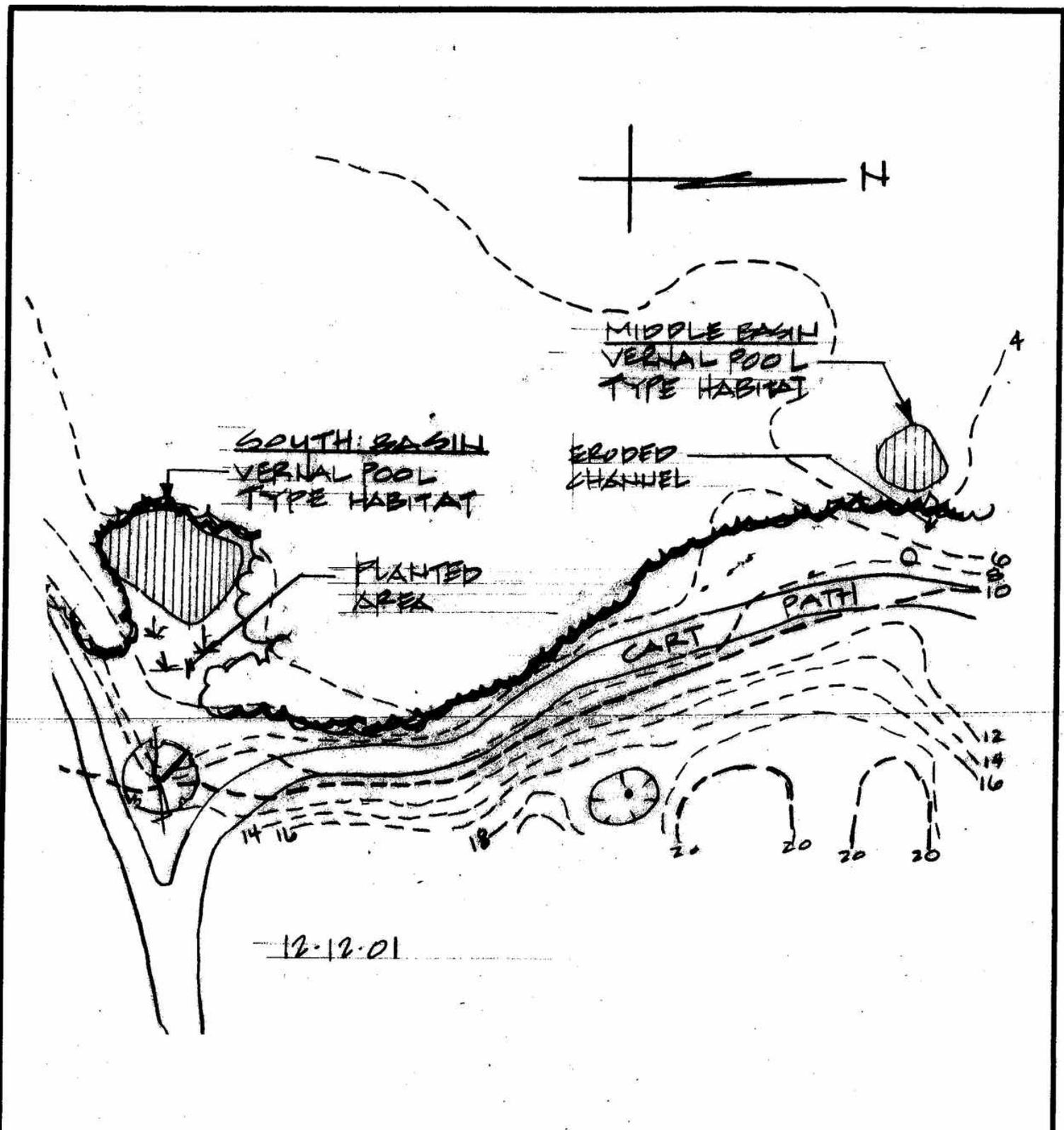
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ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 929 Kings Highway East, Fairfield, CT 06430 Tel: (203) 334-9222 Fax: (203) 333-1462	Drawing Title: WETLAND MIT. AREA "D"	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7836	Scale: 1" = 60' Date: April 13, 1999	Sheet No.: 5



12-12-01

ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 429 Kings Highway East, Fairfield, CT 06430 Tel: (203) 934-9222 Fax: (203) 933-1462	Drawing Title: 6TH TEE (WET MEADOW)	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7836	Scale: 1" = 80' Date: 12-13-00	Sheet No.: 3



ACOE No: 199801738	Project: ACOE No. 199801738 GREAT RIVER GOLF COURSE Milford and Orange, Connecticut	
Applicant: HERBERT CORAM, LLC 929 Kings Highway East, Fairfield, CT 06430 Tel: (203) 334-4222 Fax: (203) 333-1462	Drawing Title: TWO VERNAL POOL (TYPE HABITATS)	
Mitigation Plans Prepared By: ENVIRONMENTAL LAND SOLUTIONS, LLC 8 Knight Street, Suite 203, Norwalk, CT 06851 Tel: (203) 855-7879 Fax: (203) 855-7836	Scale: 1" = 80'	Sheet No.: 1
Date: 12-13-00		

Wetland Function-Value Evaluation Form

Total area of wetland 3.6 ac total Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? yes
 Adjacent land use golf course Distance to nearest roadway or other development 0 feet
 Dominant wetland systems present PEM, POW Contiguous undeveloped buffer zone present 0%
 Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? low
 How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Great River Golf Course
 Wetland I.D. 199801738
 Latitude N41.27529 Longitude W73.08394
 Prepared by: RL PM Date 5/14/03
 Wetland Impact:
 Type _____ Area _____
 Evaluation based on:
 Office X Field _____
 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			unlikely but information is lacking
 Floodflow Alteration		X			
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X			X	what little mitigation was traps sediment in herbaceous vegetation
 Nutrient Removal		X			
 Production Export		X			
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat		X			
 Recreation		X			
 Educational/Scientific Value		X			
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
ES Endangered Species Habitat		X			none known
Other					

Notes: most of mitigation not constructed

* Refer to backup list of numbered considerations.

199801738
Great River Golf Course
Milford/Orange, CT
8/27/02



One of the intended vernal pool sites



Purported 6th tee site

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USGS 99 km NE of New York, New York, United States 12 Apr 1991



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