

Fairview Farms Golf Course

File No.: 199701530

City and State: Harwinton, CT

General Impacts:

1.37 acres PEM

0.82 acre PSS and PFO

Functions and Values Lost: (From EA/SOF)

Wildlife Habitat

Year(s) Mitigation Constructed: October 2000

Size and Type of Mitigation as Proposed:

1.24 acres creation

1.13 acres enhancement

Proposed Functions and Values of Mitigation: (From EA/SOF)

Floodflow Alteration

Nutrient Retention

Sediment Retention

Wildlife Habitat

Mitigation Special Condition(s):

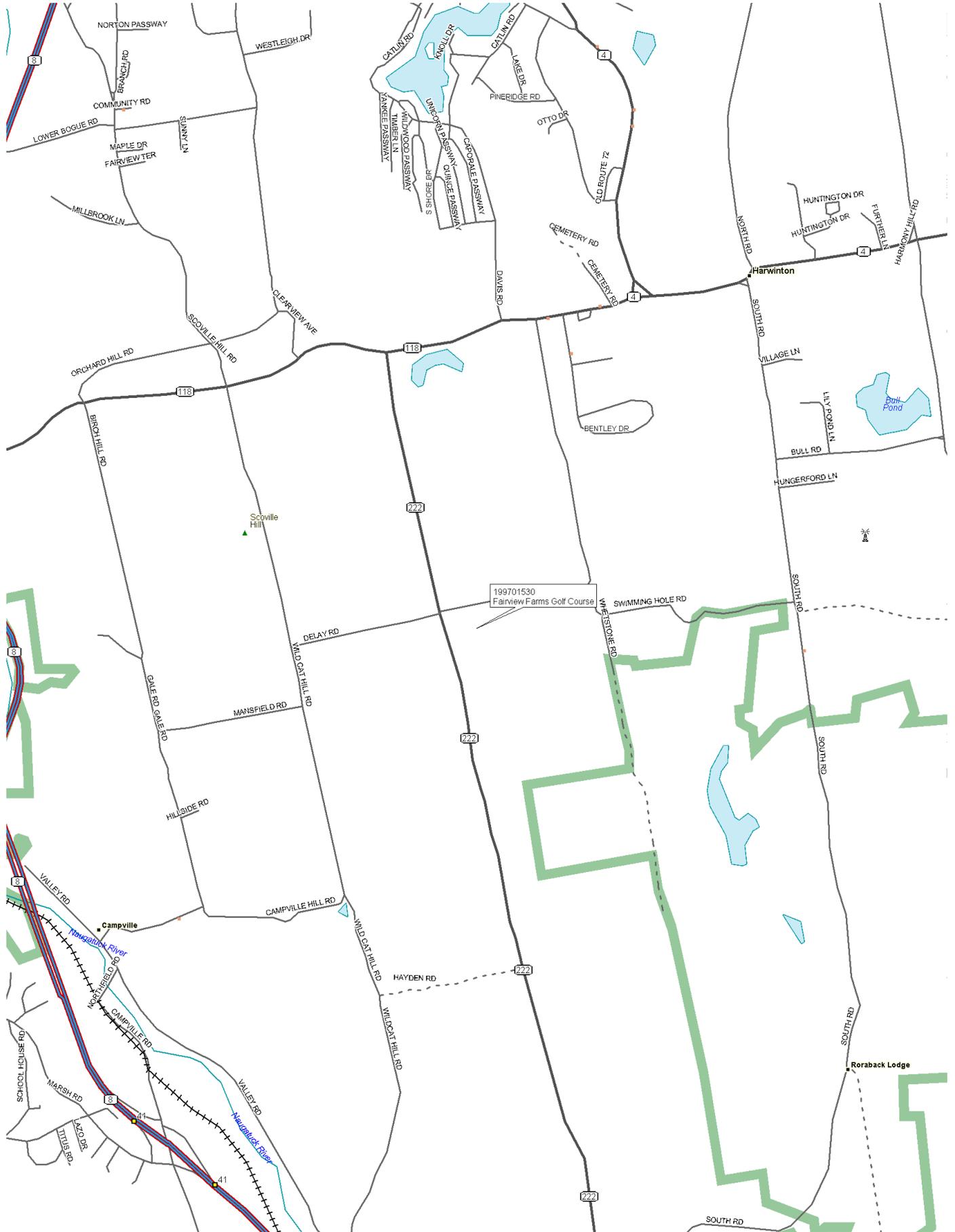
2. Mitigation to compensate for wetland impacts shall be accomplished through implementation of the wetland mitigation plan entitled, "Wetland Mitigation Plan: Fairview Farms Golf Course Harwinton, Connecticut", dated "February 15, 1999", including site plans entitled "Fairview Farms Golf Course Harwinton, Connecticut Wetland Mitigation", in 16 sheets dated "February 1999".

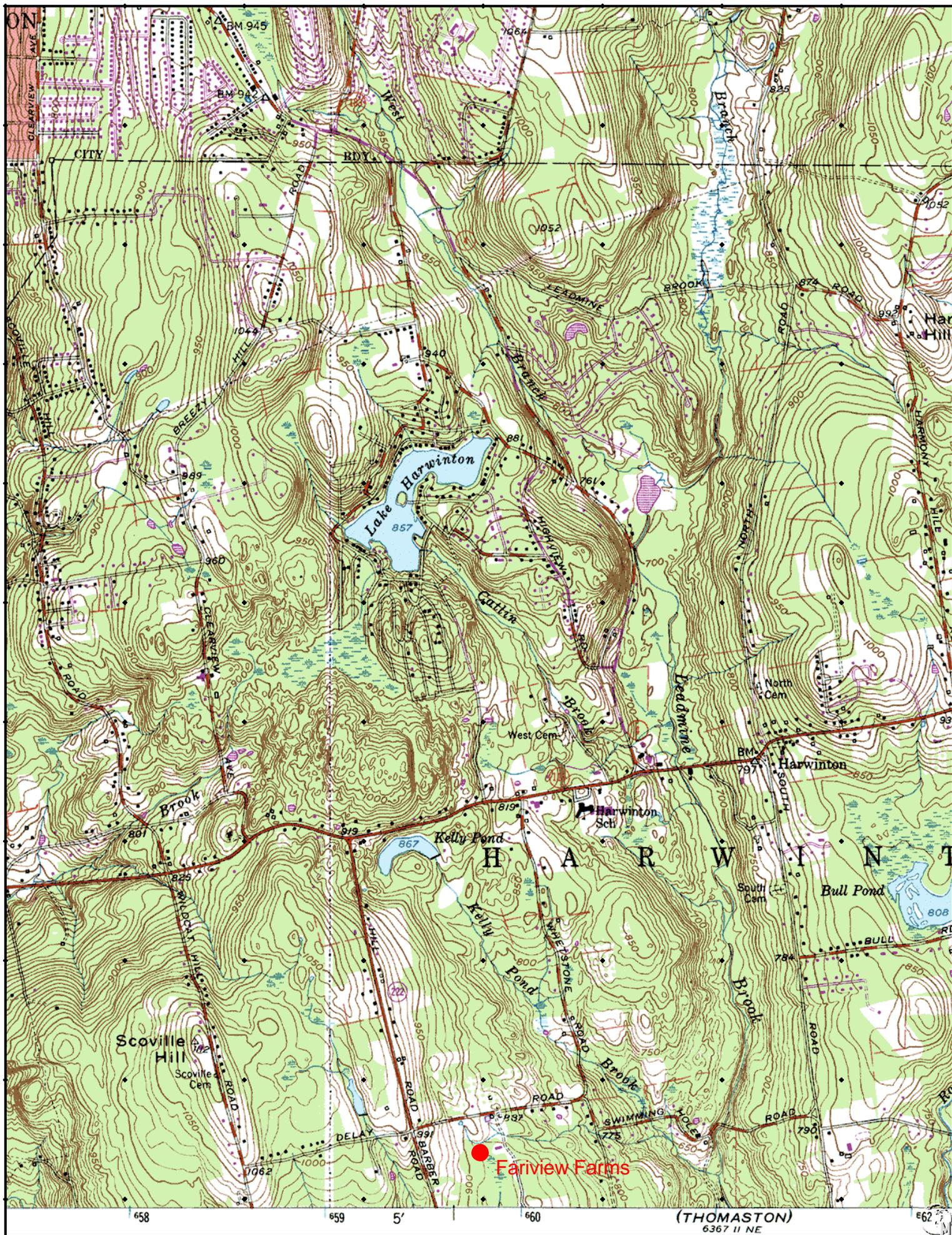
Remarks:

None

Directions:

Take 95/128 south toward Dedham/Providence, RI. Take exit 25, I-90/Mass Pike. Go west toward New York/Springfield/Framingham. Take exit 9, I-84 west toward Hartford/New York City. I-84 west to Route 4 west (exit 39, west of Hartford). Go straight on to Route 118 west in Harwinton. Take Route 222 south about 1 mile to the golf course. The entrance is on the left about 0.1 mile after first cross road.





MITIGATION SITE FIELD DATA FORM

Site Name: Fairview Farm Golf Course File No.: 199701530

City/Town: Harwinton State: CT Waterbody:

Monitor(s): Ruth Ladd, Paul Minkin Date: 10-15-02

Was site constructed? yes

Is site wetland? yes
(some parts of Site 11 and Site 16 may lack hydrology)

Size of proposed wetland: 1.24 acres creation, 1.13 acres enhancement

Actual size of wetland: TBD

Landscape position: mid-slope depressions

Lat/Long Points: N 41.74686, W 073.07908

Saved GPS Waypoint name: FF (+ hole #)

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use: Golf course

Is wetland function compromised by surrounding land use? Yes

Plant Health: Good, except for a few bare patches at Site 11 (due to regrading?)

Invasive Species: Much Rosa multiflora; scant Phalaris arundinacea in Site 11

Wildlife Use: Site 11 - deer paths, many grasshoppers; small birds throughout

Plants:

Site 11:

- Alnus rugosa (on outer edges)
Aster spp.
Carex comosa
Carex lurida
Comptonia peregrina
Cornus sp.
Eupatorium perfoliatum
Fragaria sp.
Ilex verticillata
Impatiens capensis
Juncus effusus
Mentha piperata
Mimulus ringens
Onoclea sensibilis
Panicum sp.
Phalaris arundinacea
Plantago major
Poaceae spp.
Rosa multiflora
Rubus hispidus
Rubus sp.
Salix spp.
Scirpus cyperinus
Solidago rugosa
Solidago sp.
Spiraea tomentosa
Typha latifolia
Viburnum dentatum
Vitis sp.

Site 15:

- Aster spp.
Carex comosa

Carex lurida
Eupatorium perfoliatum
Glyceria sp.
Impatiens capensis
Juncus effusus
Lycopus sp.
Mimulus ringens

Polygonum sagittatum
Rosa multiflora
Salix spp.
Scirpus cyperinus
Scirpus microcarpus
Solidago spp.

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:

Golf course with wetland mitigation located marginal to greens, tees, and fairways. Some partially adjacent to forested areas.

Comments, problems, recommendations:

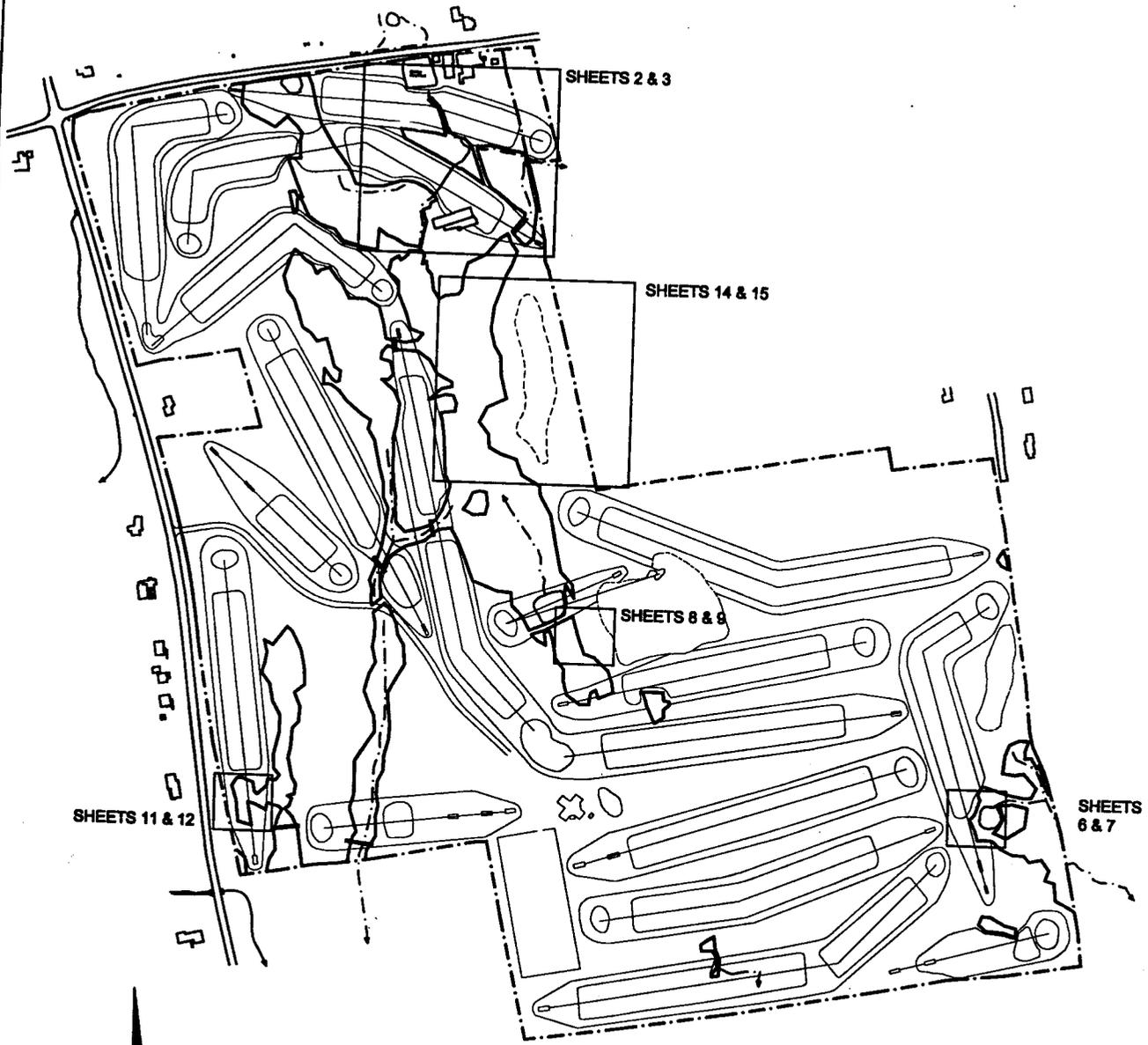
Site 11: upslope areas of site wetter, standing water in spring

Soil – sandy loam, no topsoil, saturated to the surface; oxidized rhizospheres, redoxymorphic concentrations and depletions within the upper 6 inches

Site 16: most of site dominated by *Rosa multiflora* and *Solidago* spp. and may not be wet; some low spots at the site; wet swale by drainpipe dominated by graminoids, silt fence still present here

Site 7: just constructed, not planted; bluebirds, other small passerines, and chipmunk located in this open area

Site 5: very small site, some *Typha latifolia* in pond, narrow scrub-shrub along margins



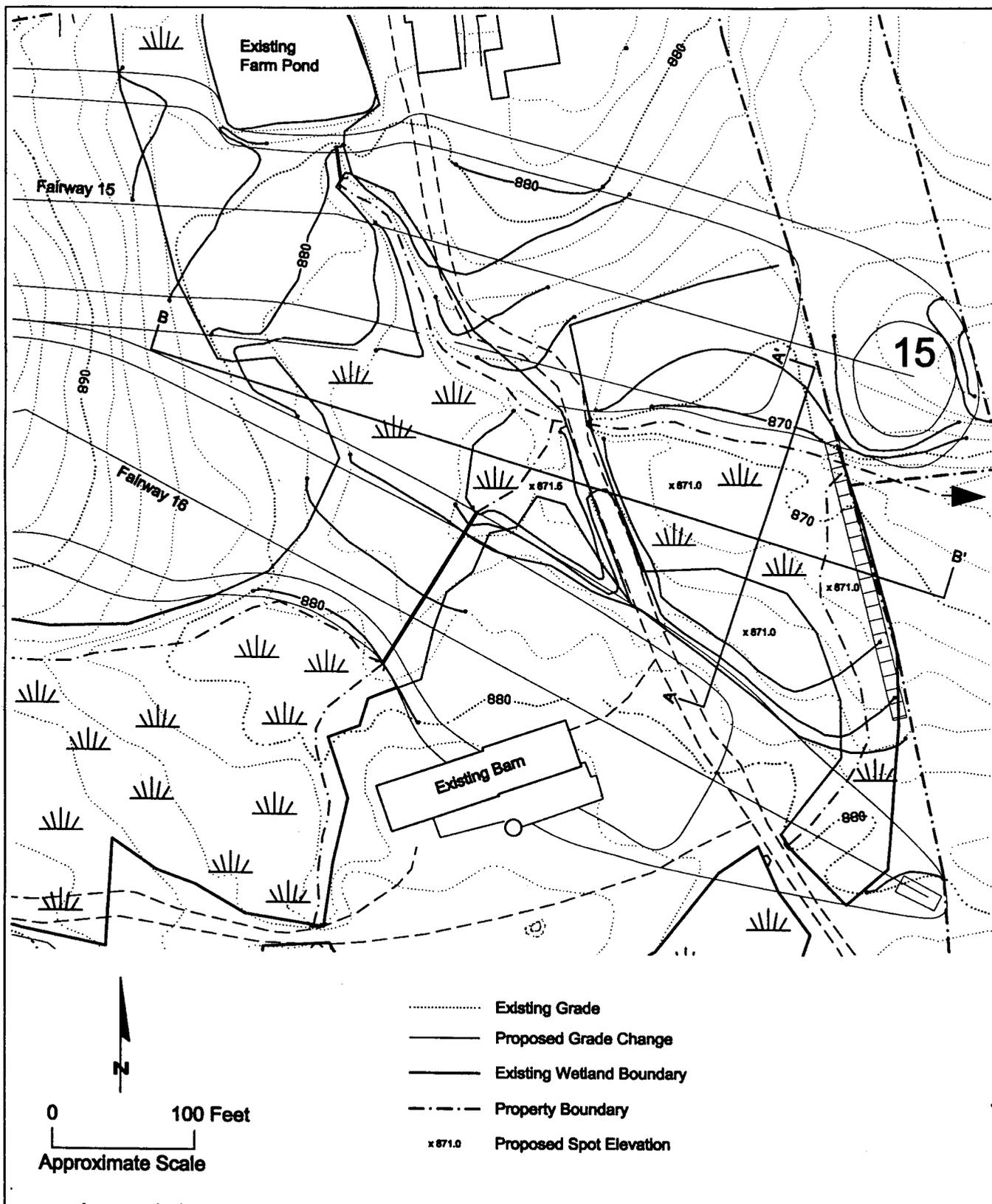
0 600 Feet
Approximate Scale

Fairview Farms Golf Course
Harwinton, Connecticut

MA **MASON & ASSOCIATES, INC.**
Environmental Consulting & Projects
771 Plainfield Pike, North Scituate, Rhode Island 02857

WETLAND MITIGATION SHEET INDEX

Scale: 1" = 600'	February 1999
Applicant: Robert Ferrarotti	Sheet 1



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Harwinton, Connecticut

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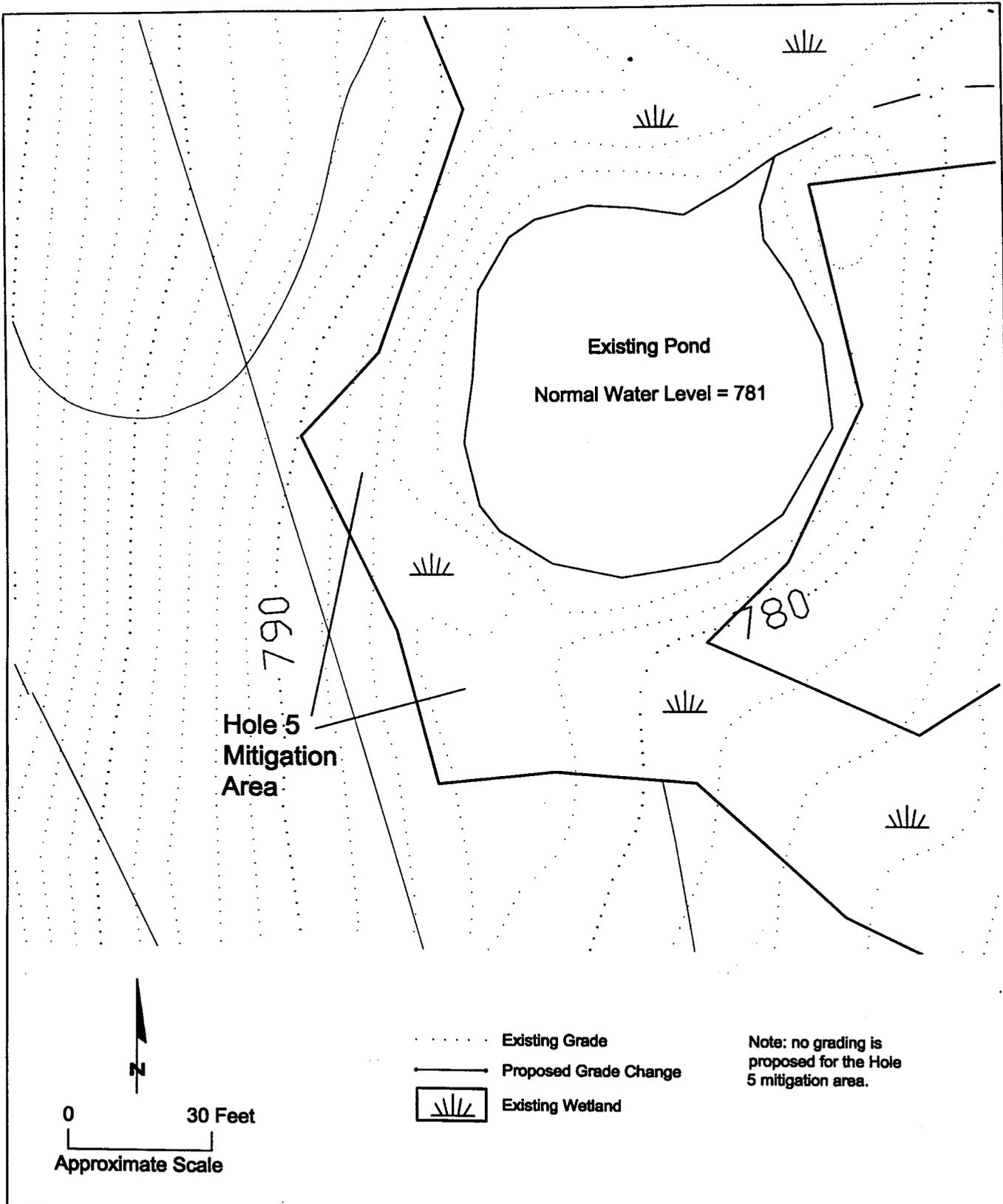
**WETLAND MITIGATION - HOLES 15 & 16
GRADING PLAN**

Scale: 1" = 100'

October 1998

Applicant: Robert Ferrarotti

Sheet 2



Fairview Farms Golf Course
Harwinton, Connecticut

**WETLAND MITIGATION - HOLE 5
GRADING PLAN**

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Scale: 1" = 30'

February 1999

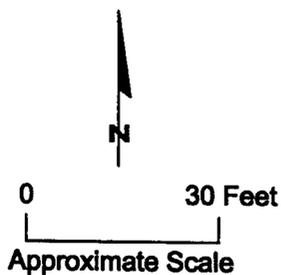
Applicant: Robert Ferrarotti

Sheet 6



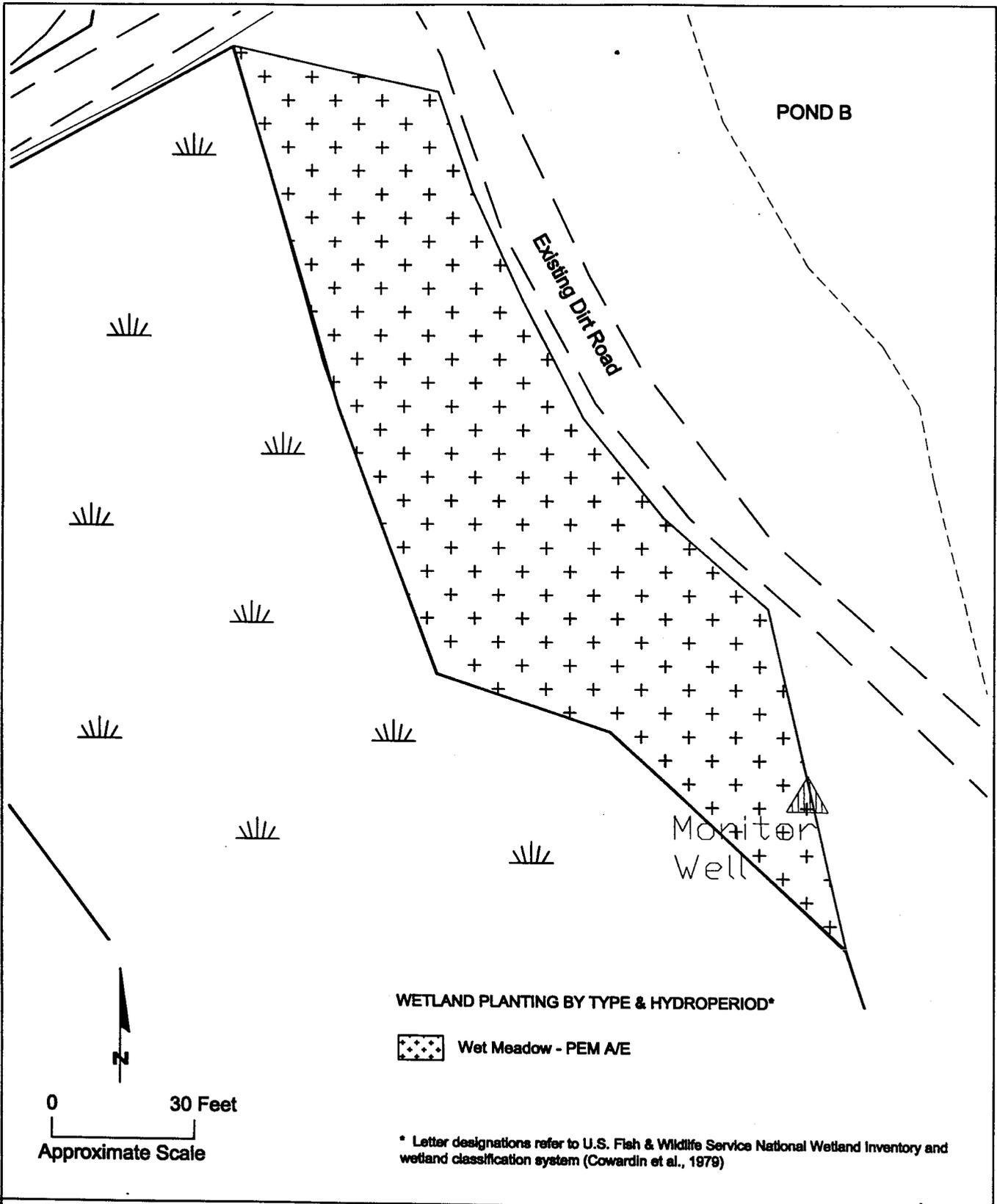
WETLAND PLANTING BY TYPE & HYDROPERIOD*

-  Marsh - PEM C
-  Wet Meadow - PEM E
-  Blueberry, Arrowwood, Silky Dogwood - PSS E

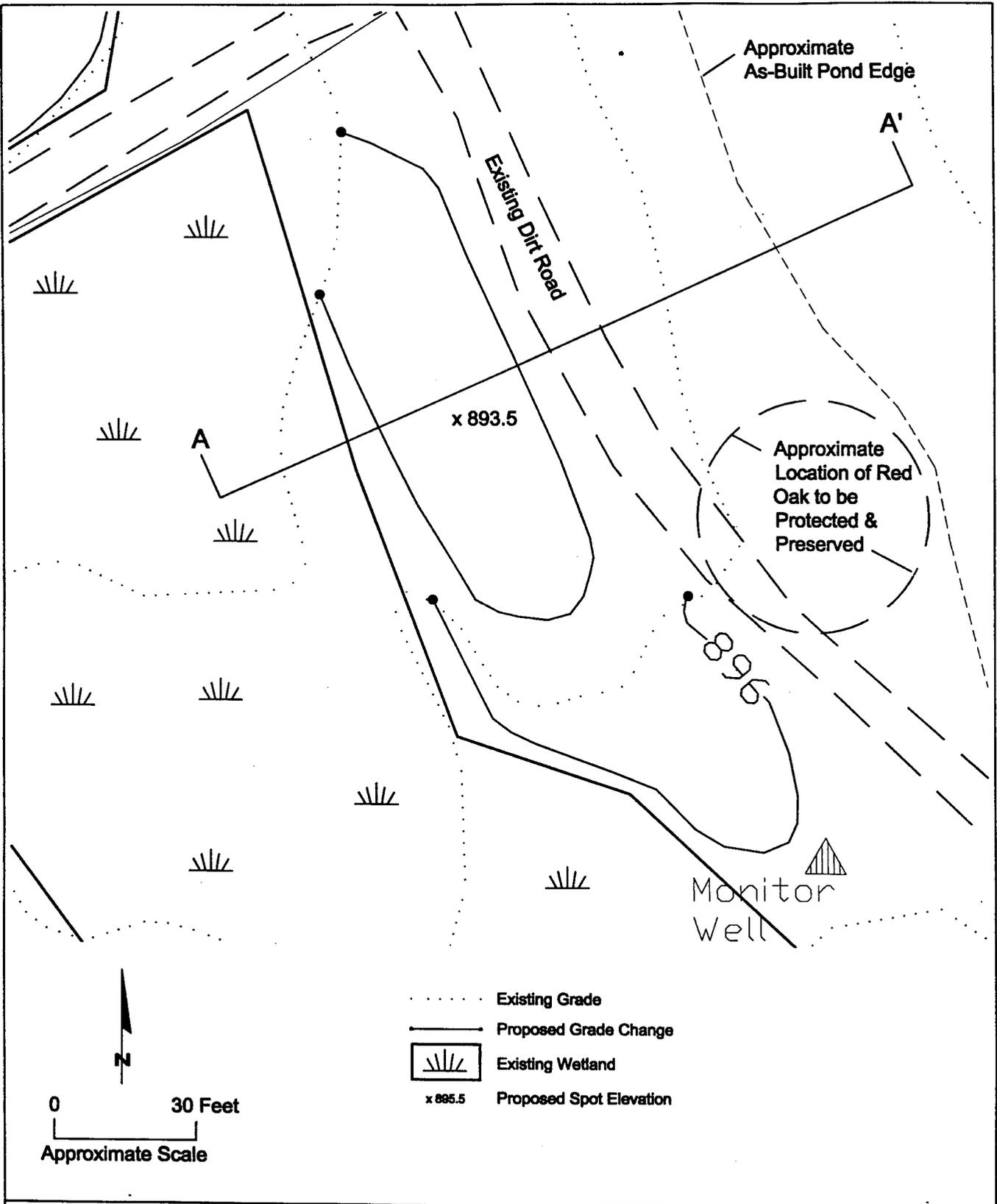


* Letter designations refer to U.S. Fish & Wildlife Service National Wetland Inventory and wetland classification system (Cowardin et al., 1979)

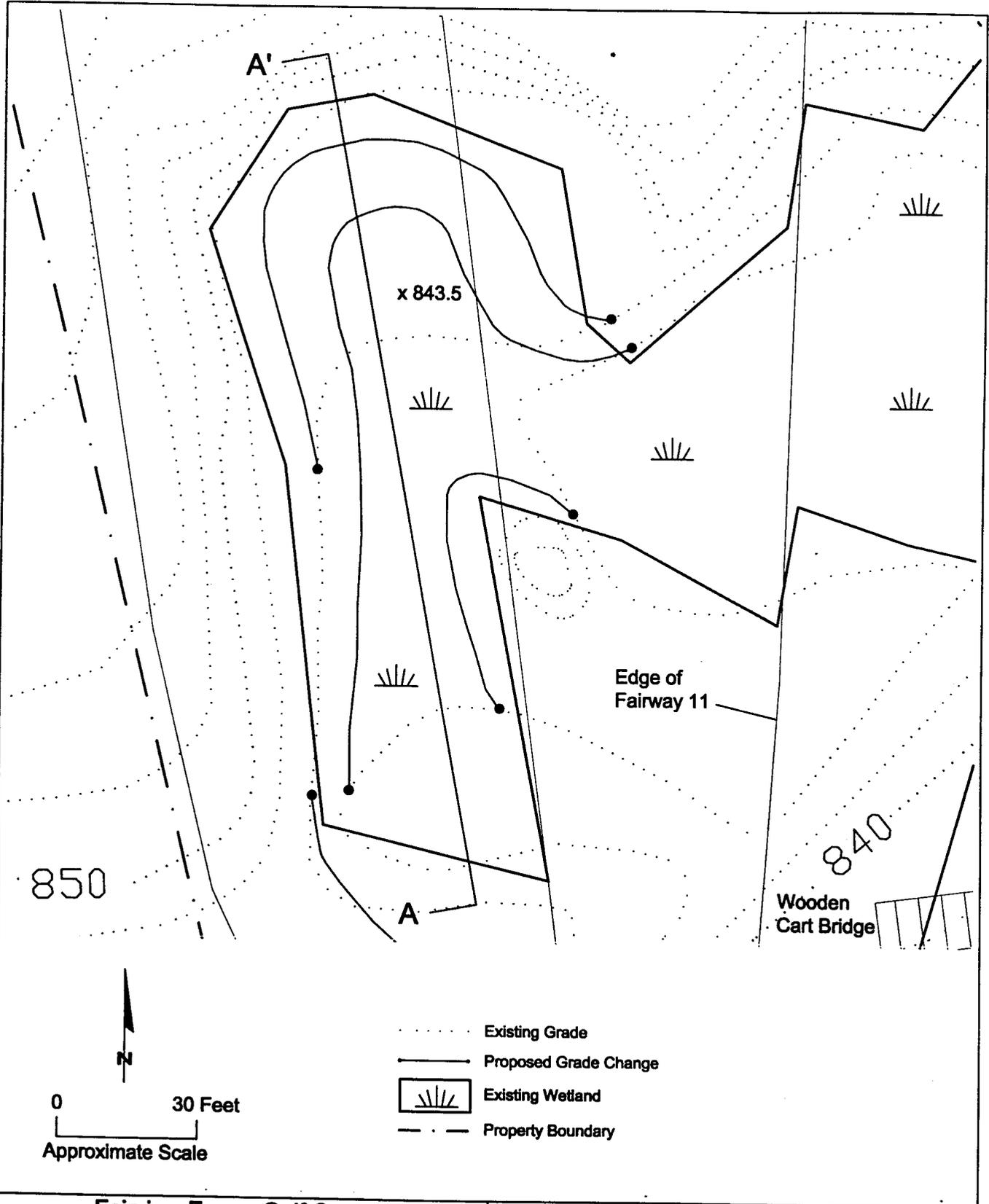
Fairview Farms Golf Course Harwinton, Connecticut	WETLAND MITIGATION - HOLE 5 PLANTING PLAN	
 MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i> 771 Plainfield Pike, North Scituate, Rhode Island 02857	Scale: 1" = 30'	February 1999
	Applicant: Robert Ferrarotti	Sheet 7



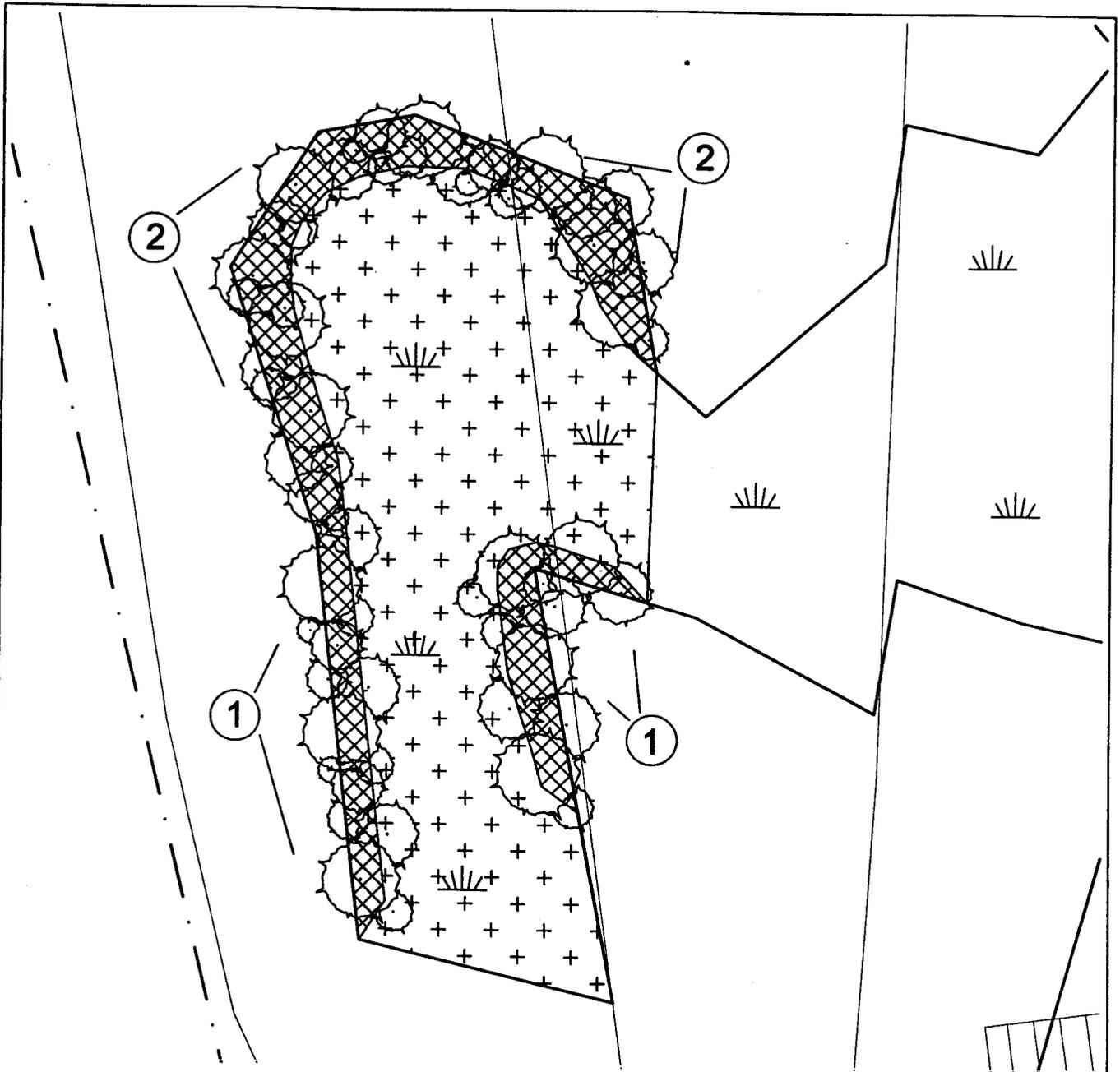
Fairview Farms Golf Course Harwinton, Connecticut		WETLAND MITIGATION - HOLE 7 PLANTING PLAN	
MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i> 771 Plainfield Pike, North Scituate, Rhode Island 02857		Scale: 1" = 30'	February 1999
		Applicant: Robert Ferrarotti	Sheet 9



Fairview Farms Golf Course Harwinton, Connecticut		WETLAND MITIGATION - HOLE 7 GRADING PLAN	
MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i> 771 Plainfield Pike, North Scituate, Rhode Island 02857		Scale: 1" = 30'	February 1999
		Applicant: Robert Ferrarotti	Sheet 8



Fairview Farms Golf Course Harwinton, Connecticut		WETLAND MITIGATION - HOLE 11 GRADING PLAN	
 MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i>		Scale: 1" = 30'	February 1999
771 Plainfield Pike, North Scituate, Rhode Island 02857		Applicant: Robert Ferrarotti	Sheet 11



WETLAND PLANTING BY TYPE & HYDROPERIOD*

 Wet Meadow - PEM A/E

 Wet Meadow - PEM E

 ① Bayberry - PSS E

 ② Meadowsweet, Steeplebush, Sheep Laurel - PSS E

* Letter designations refer to U.S. Fish & Wildlife Service National Wetland Inventory and wetland classification system (Cowardin et al., 1979)

Fairview Farms Golf Course
Harwinton, Connecticut

**WETLAND MITIGATION - HOLE 11
PLANTING PLAN**

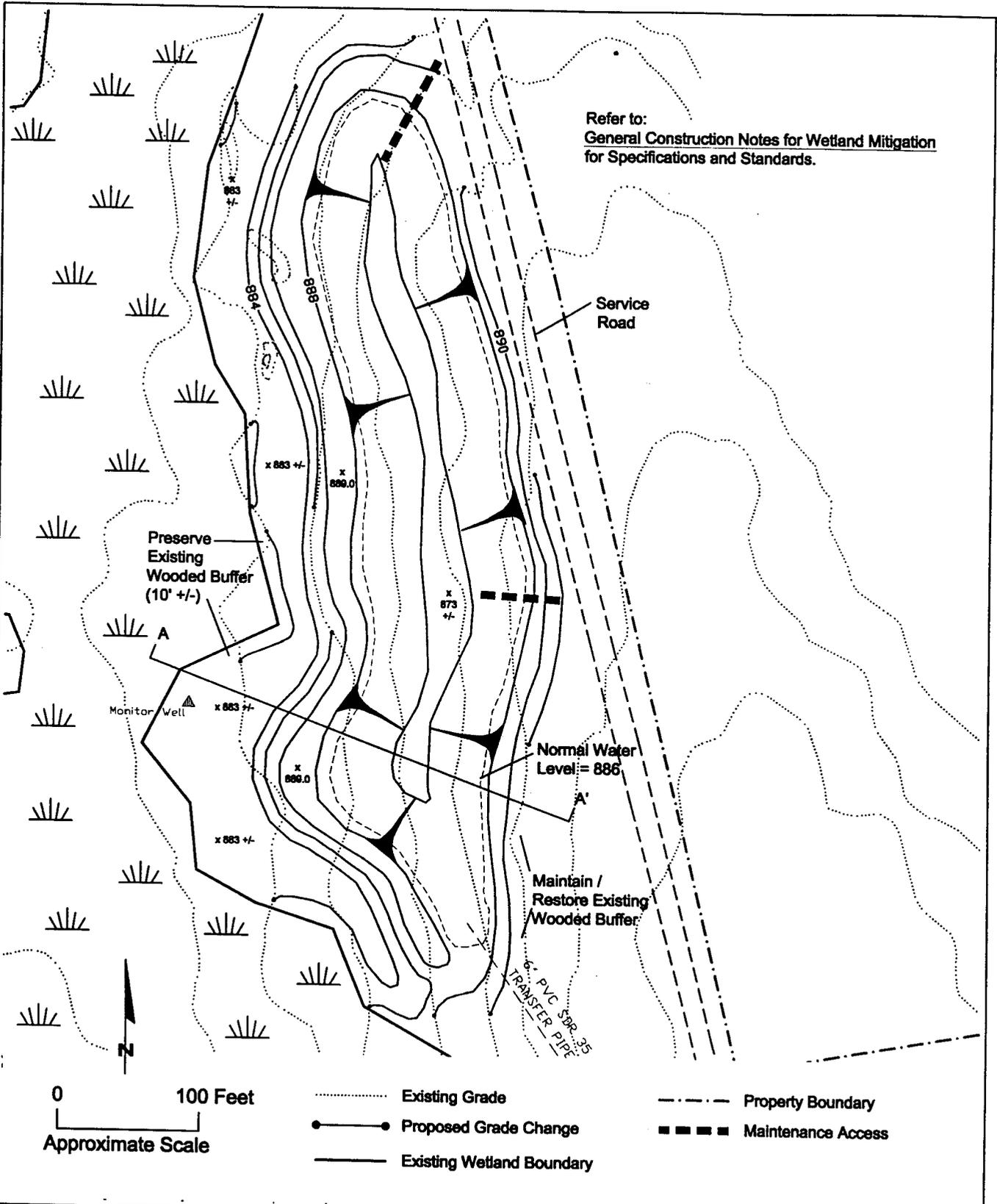
M **MASON & ASSOCIATES, INC.**
Environmental Consulting & Projects
771 Plainfield Pike, North Scituate, Rhode Island 02857

Scale: 1" = 30'

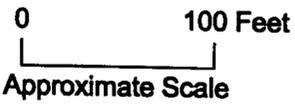
February 1999

Applicant: Robert Ferrarotti

Sheet 12

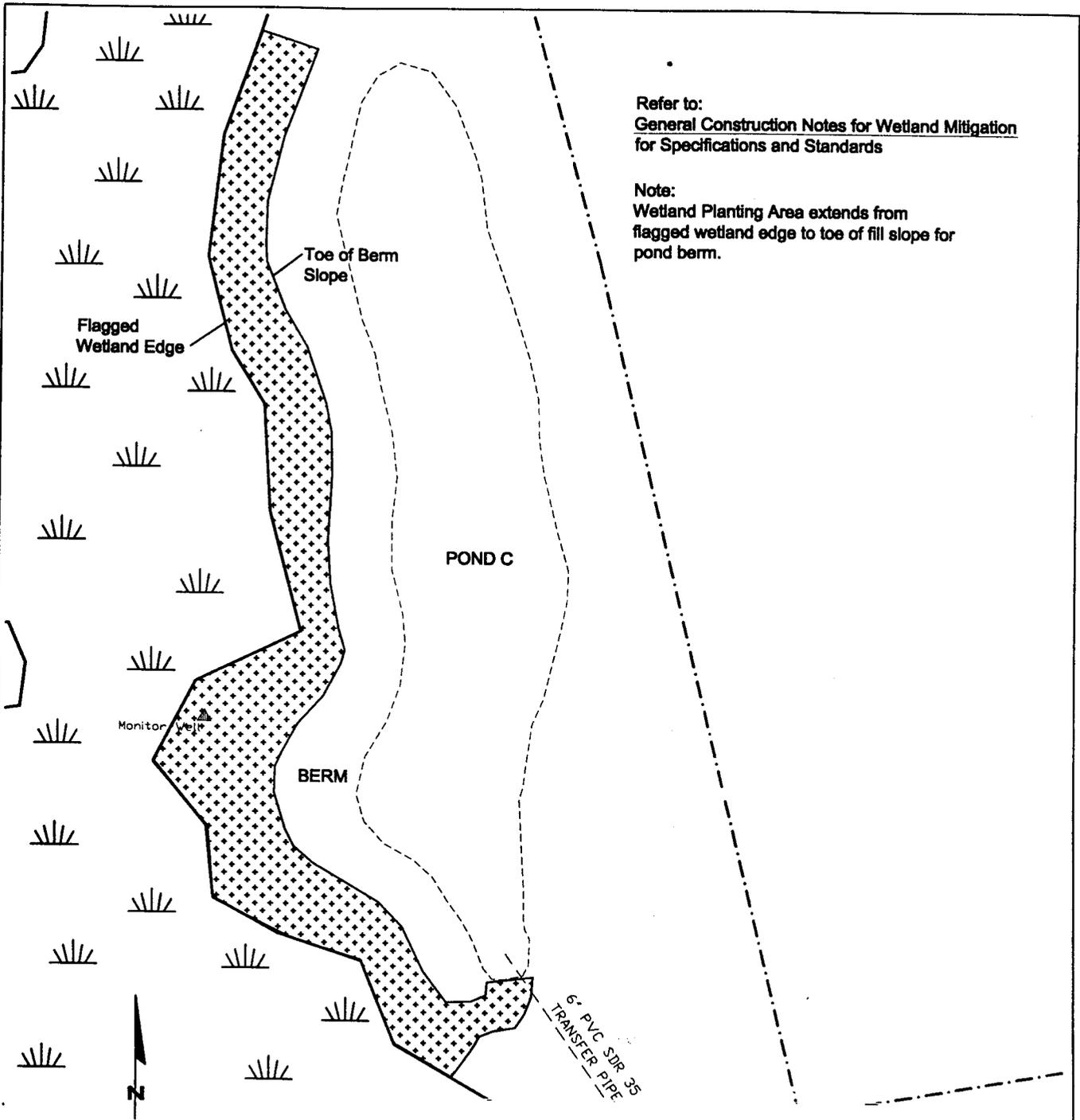


Refer to:
General Construction Notes for Wetland Mitigation
 for Specifications and Standards.



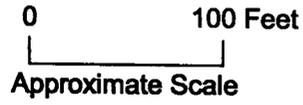
- Existing Grade
- Property Boundary
- Proposed Grade Change
- Maintenance Access
- Existing Wetland Boundary

Fairview Farms Golf Course Harwinton, Connecticut		WETLAND MITIGATION - POND C GRADING PLAN	
MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i> 771 Plainfield Pike, North Scituate, Rhode Island 02857		Scale: 1" = 100'	February 1999
		Applicant: Robert Ferrarotti	



Refer to:
General Construction Notes for Wetland Mitigation
 for Specifications and Standards

Note:
 Wetland Planting Area extends from
 flagged wetland edge to toe of fill slope for
 pond berm.



WETLAND PLANTING BY TYPE & HYDROPERIOD*

 Wet Meadow - PEM A/E

* Letter designations refer to U.S. Fish & Wildlife Service National Wetland Inventory and wetland classification system (Cowardin et al., 1979)

Fairview Farms Golf Course Harwinton, Connecticut	WETLAND MITIGATION - POND C PLANTING PLAN	
 MASON & ASSOCIATES, INC. <i>Environmental Consulting & Projects</i> 771 Plainfield Pike, North Scituate, Rhode Island 02857	Scale: 1" = 100'	February 1999
Applicant: Robert Ferrarotti		Sheet 15

Wetland Function-Value Evaluation Form

Total area of wetland 1.24 ac Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use golf course Distance to nearest roadway or other development 0

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? high

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Fairview Farms Golf
Wetland I.D. Course 199701530

Latitude N41.74686 Longitude W73.07908

Prepared by: RL PM Date 10/15/02

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			
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X			X	mitigation is scattered locations around golf course
 Nutrient Removal	X				surrounded by golf course
 Production Export		X			
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat	X				but very limited
 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.

199701530
Fairview Farm Golf Course
Harwinton, CT
10/15/02



Hole 11 site looking north and east from southwest end



Hole 15 looking south and southwest from north end



Hole 16 looking east and south from west side



Hole 5 looking east and south from west side



Hole 7 looking south from north end. It is newly completed; it had been omitted from the original construction.

USGS 3 km S of Harwinton, Connecticut, United States 12 Apr 1991



0 0.5Km

0 0.25Mi

Image courtesy of the U.S. Geological Survey
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