



PUBLIC NOTICE

**US Army Corps
of Engineers®**
New England District

8 Carmichael Street, Suite 205
Essex Junction, Vermont 05452

Date: April 17, 2007
Comment Period Ends: May 17, 2007
File Number: NAE-2006-647
In Reply Refer To: Marty Lefebvre
Or by e-mail: Martha.a.lefebvre@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT

Foundation for a Sustainable Future, ATTN: Melissa Hoffman, 410 Camels Hump Road, Huntington, Vermont 05462

ACTIVITY

Place fill in unnamed tributaries of Brushy Brook and adjacent scrub-shrub and emergent wetlands in conjunction with the retention and maintenance of a dam and pond and with the installation and maintenance of a penstock at the former "Teal Farm" off Camels Hump Road in Huntington Center, Vermont. The pond will provide water for irrigation and for a micro-hydro facility. A total of 2.8 acres of waters of the United States will be impacted by the project.

The project involved the construction of a 1.5 acre pond with a maximum depth of 10' and volume of 486,000 cubic feet. The pond was constructed in 2005. The primary spillway for the pond is a 4' drop inlet which will handle the 10-year 24-hour storm event with water levels at the elevation of the emergency spillway. About 2.6 acres of scrub-shrub and emergent wetland were disturbed for the construction of the pond.

The applicant proposes to construct a penstock to convey water from the pond to the proposed irrigation network and to a micro-hydro facility. A total of about 5227 sq. ft. (0.12 acre) of wetland and about 800 sq. ft. (0.018 acre) of an unnamed stream will be temporarily impacted during the installation of the penstock in a 6' deep trench. An irrigation line will split off from the penstock to provide water to existing agricultural fields. A total of about 2178 sq. ft. (0.05 acre) of wetland and about 800 sq. ft. (0.018 acre) of two unnamed streams will be temporarily impacted during the installation of the irrigation line.

In an attempt to mitigate for the unavoidable impacts of the project, the applicant proposes to construct a shallow marsh at the eastern end of the pond. This area will be planted with floating aquatics and emergent marsh species. A six zone planting plan is proposed for the area around the pond to enhance the area for wildlife. A curtain drain that was installed to the south of the pond and associated spoil piles will be removed from a wet meadow and the area restored. This area and a 50' wide buffer will be planted with wetland and upland shrubs and trees. About 4.38 acres will be restored and enhanced by the mitigation

The purpose of the project is to provide water for irrigation of gardens, orchards, and pastures and to provide water for a micro-hydroelectric system.

The work is described on the enclosed plans, in twelve sheets, entitled "Teal Farm USACOE Individual Permit Application", dated "1/30/07", "1/30/07" (last revised "3/19/07"), "1/30/07" (last revised "2/26/07"); "2/02/07" (last revised "3/19/07"), "Feb. 02, 2007" (last revised "3/20/07"), and "3/12/07" (last revised "3/20/07").

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed on unnamed tributaries or Brushy Brook and adjacent wetlands off the south side of Camels Hump Road in Huntington Center, Vermont. The project is located on the USGS Huntington, VT quadrangle sheet at UTM coordinates 4905820.0 N and 664425.0 E

AUTHORITY

Permits are required pursuant to:

Section 10 of the Rivers and Harbors Act of 1899

Section 404 of the Clean Water Act

Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the proposed project site during the construction and subsequent operation/use period sought by the applicant. We have undertaken a Biological Assessment (BA) of the potential for interactions and adverse impacts to those listed species. It is our determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our BA determination.

The following authorizations have been applied for, or have been, or will be obtained:

- () Permit, License or Assent from State.
- () Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

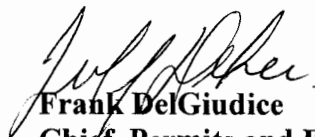
In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Marty Lefebvre at (802) 872-2893.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

For more information on the New England District Corps of Engineers programs, visit our website at <http://www.nae.usace.army.mil>.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

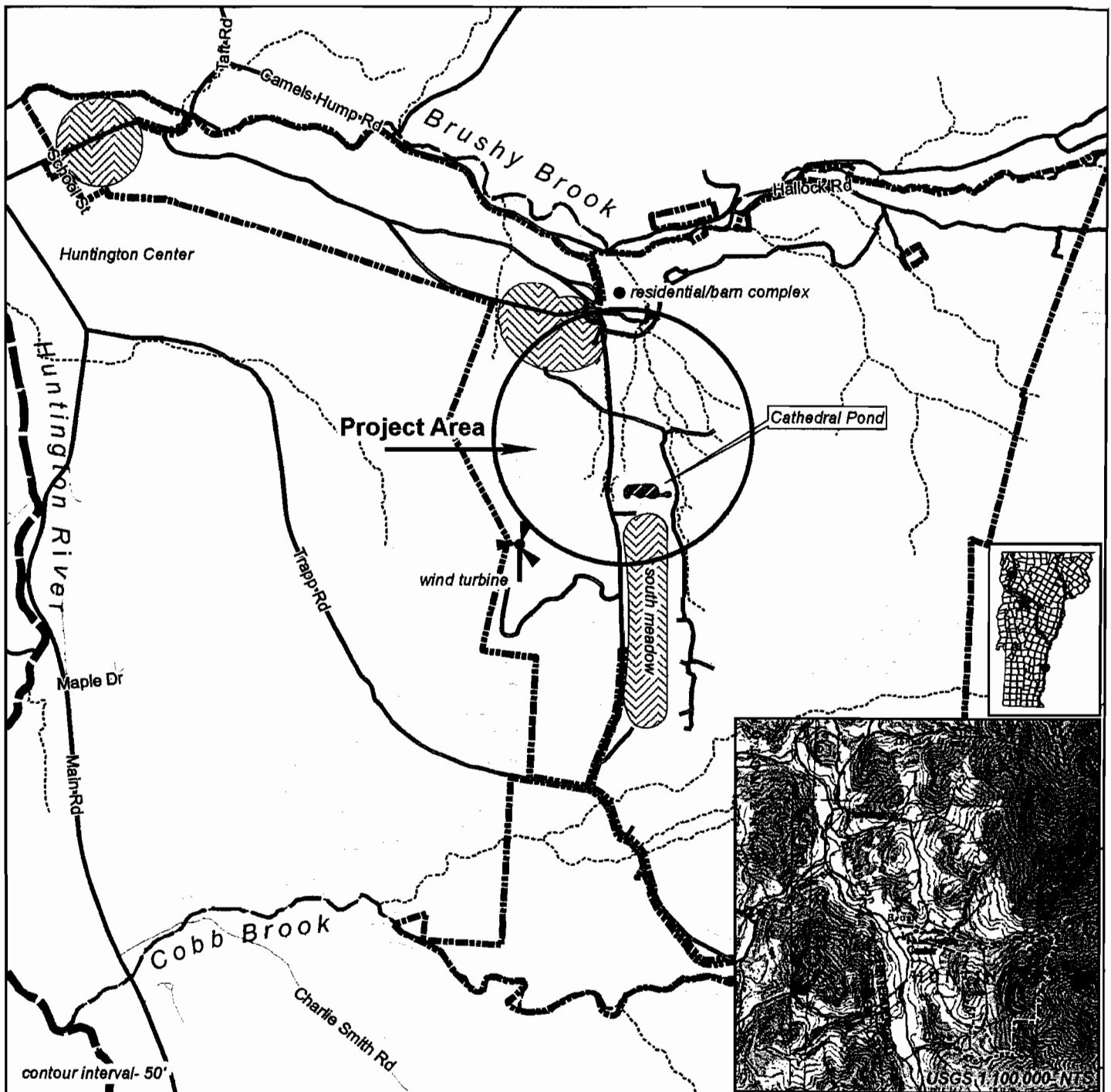


Frank DelGiudice
Chief, Permits and Enforcement Branch
Regulatory Division

CENAE-R
FILE NO. NAE-2006-647

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____



The "Teal Farm" in Huntington Center encompasses approximately 1200 acres spread over several parcels.

- Property boundary
- Minor Streams
- Roads
- Cathedral Pond
- Major Streams
- Agriculture area



0 250 500 1,000 1,500 2,000 Feet

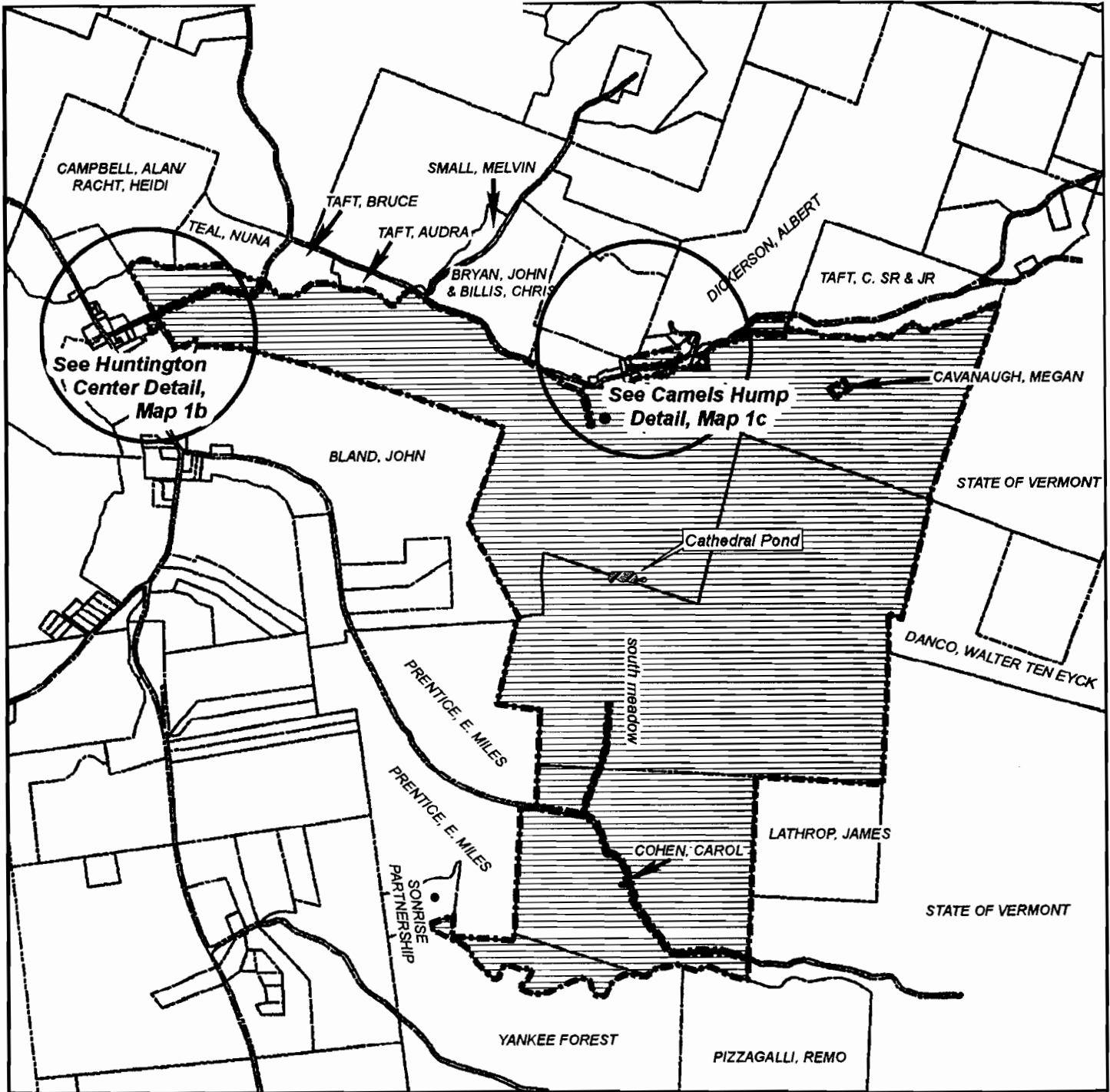
Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Other data from VCGI and Arrowwood Environmental.

Teal Farm USACOE Individual Permit Application

drawing title: Site Location / Property Overview



1/30/07
prepared by AW



 Teal Farm Property
 Huntington Parcels



0 250 00 1,000 1,500 2,000 2,500 Feet



Sources: Property lines from Town of Huntington, 2000. Other data from VCGI and Arrowwood Environmental.

Teal Farm USACOE Individual Permit Application

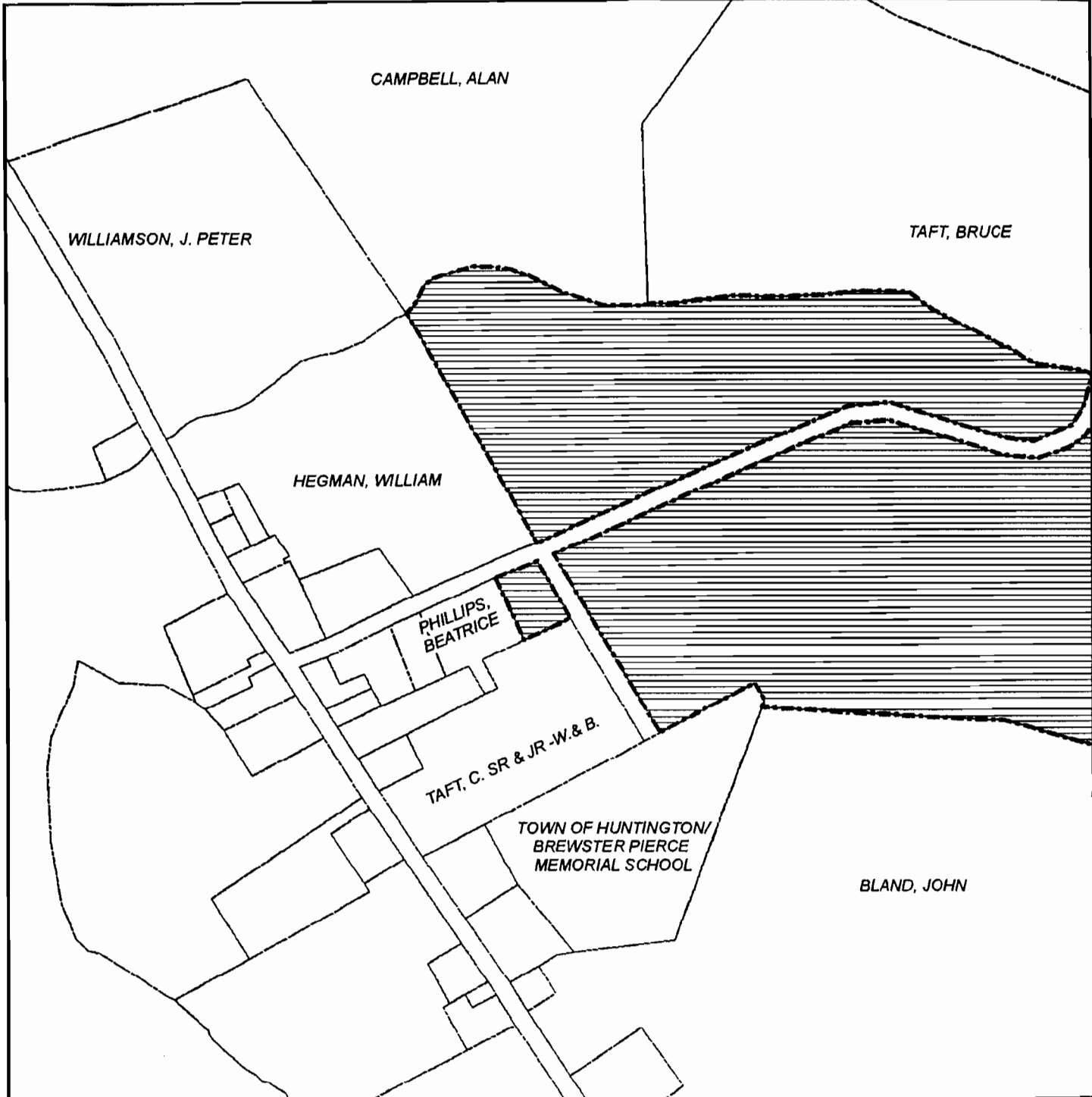
drawing title: *Property Abutters*



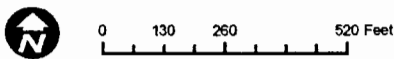
ARROWWOOD ENVIRONMENTAL
 610 BIRCH WASTE ROAD
 HUNTINGTON, VT 05462
 (802) 434-7226 FAX: (802) 434-3192

1/30/07 rev. 2/26/07, 3/19/07
prepared by AW

C:\GIS\Projects\Hoffman\ACOE\IP\FinalPlans\parcels_1a.mxd map #1a



 **Teal Farm Property**
 **Huntington Parcels**

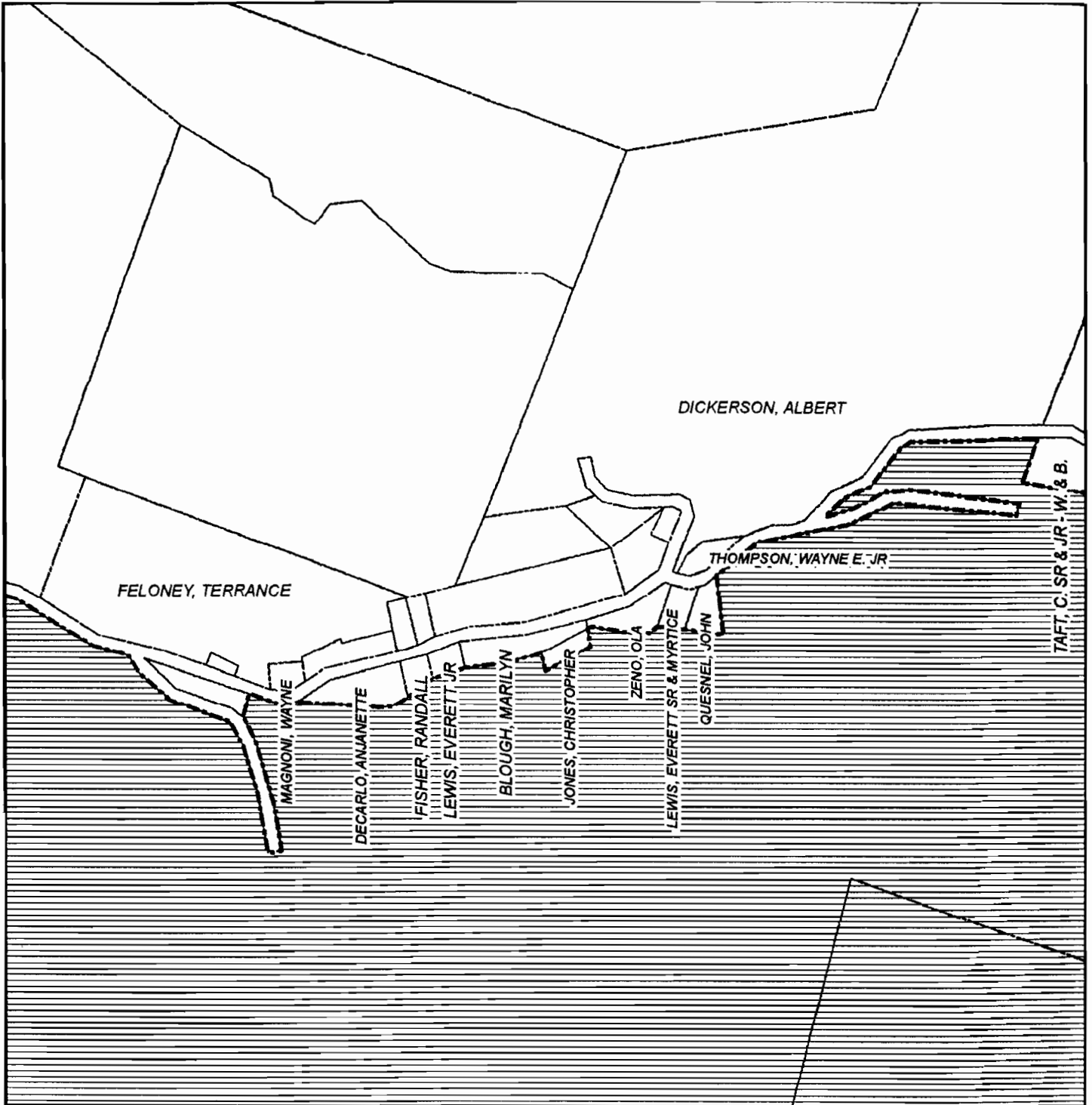


Sources: Property lines from Town of Huntington, 2000. Other data from VCGI and Arrowwood Environmental.

Teal Farm USACOE Individual Permit Application
drawing title: Property Abutters (Huntington Center)



1/30/07 rev.2/26/07, 3/19/07
 prepared by AW



 Teal Farm Property
 Huntington Parcels



0 150 300 600 Feet

Sources: Property lines from Town of Huntington, 2000. Other data from VCGI and Arrowwood Environmental.

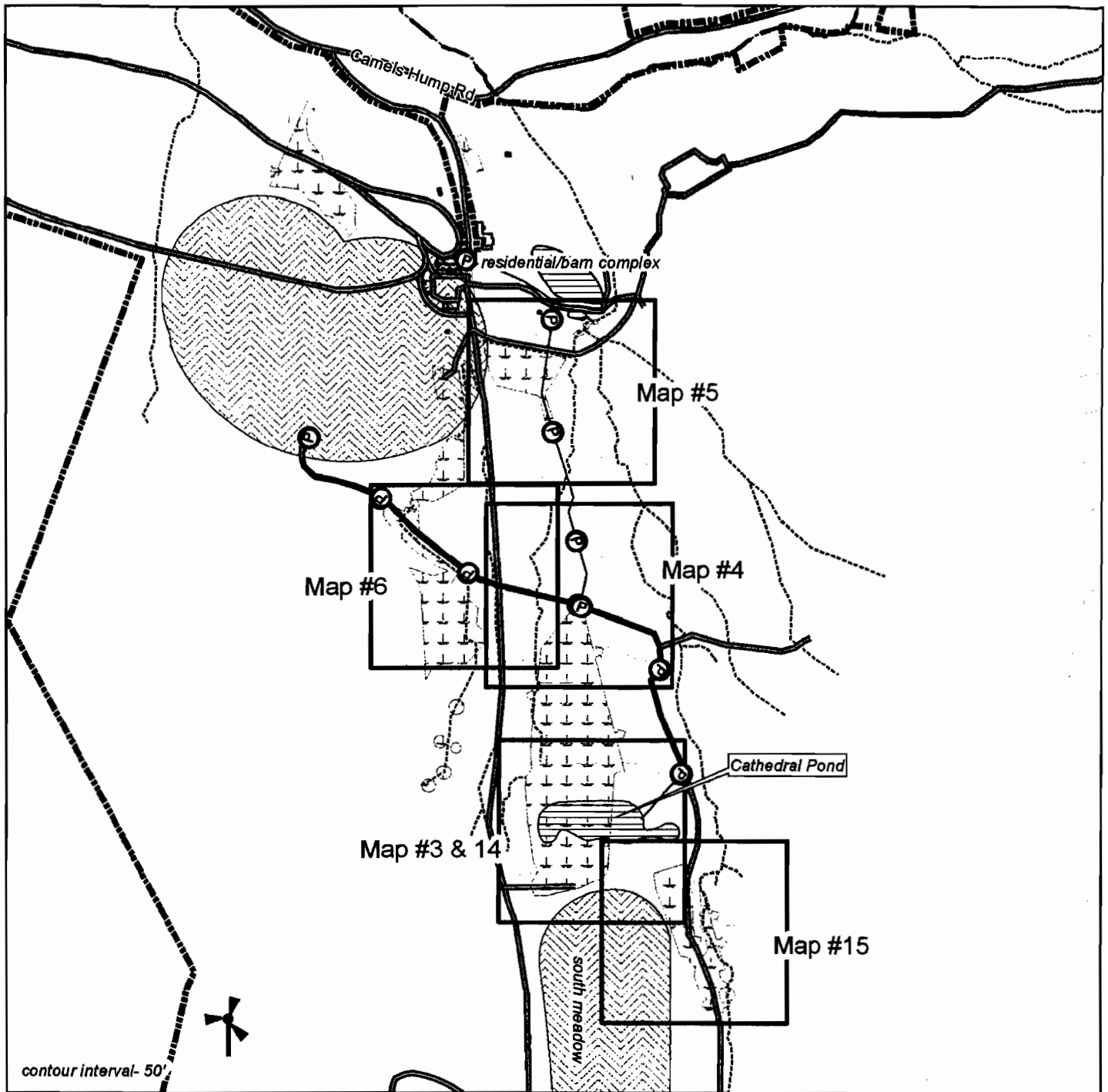
Teal Farm USACOE Individual Permit Application

drawing title: *Property Abutters (Camels Hump Road)*



1/30/07 rev.2/28/07, 3/19/07
prepared by AW

C:\GIS\Projects\Hoffman\ACOE\IP\FinalPlans\parcels_1c.mxd map #1c



contour interval- 50'

The proposed project occurs in the central portion of the Teal Farm, stretching from the residential area, to the "south meadow" agricultural area.

- | | | |
|-------------------|-------------------|------------------|
| Property boundary | Minor Streams | Roads |
| Ponds | Brushy Brook | Buildings |
| Wetlands | 50' contour | Agriculture area |
| | Proposed penstock | |



0 250 500 Feet

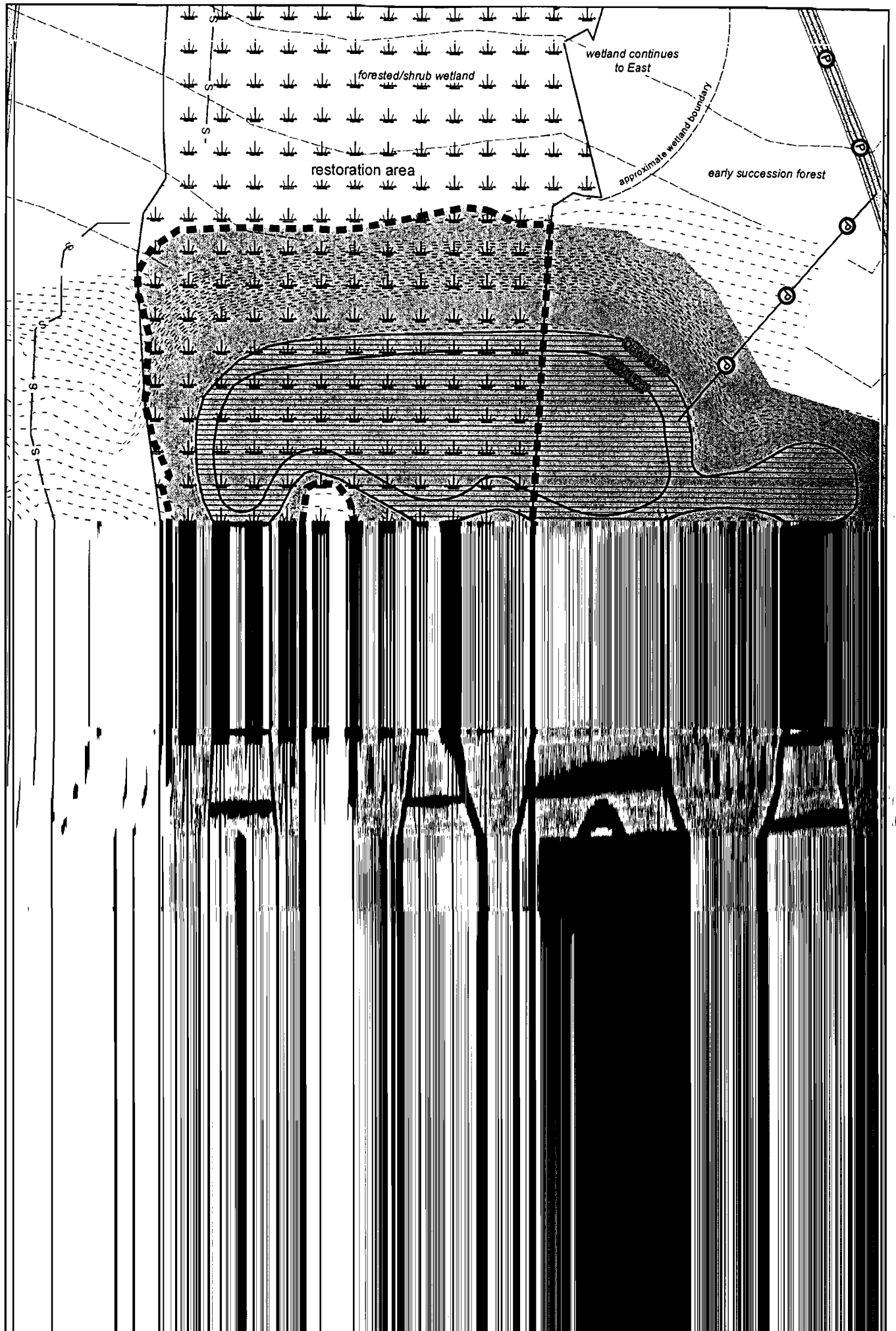
Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Other data from VCGI and Arrowwood Environmental.

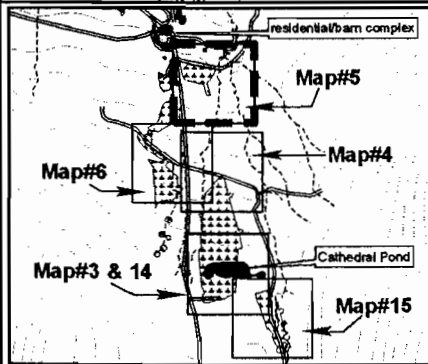
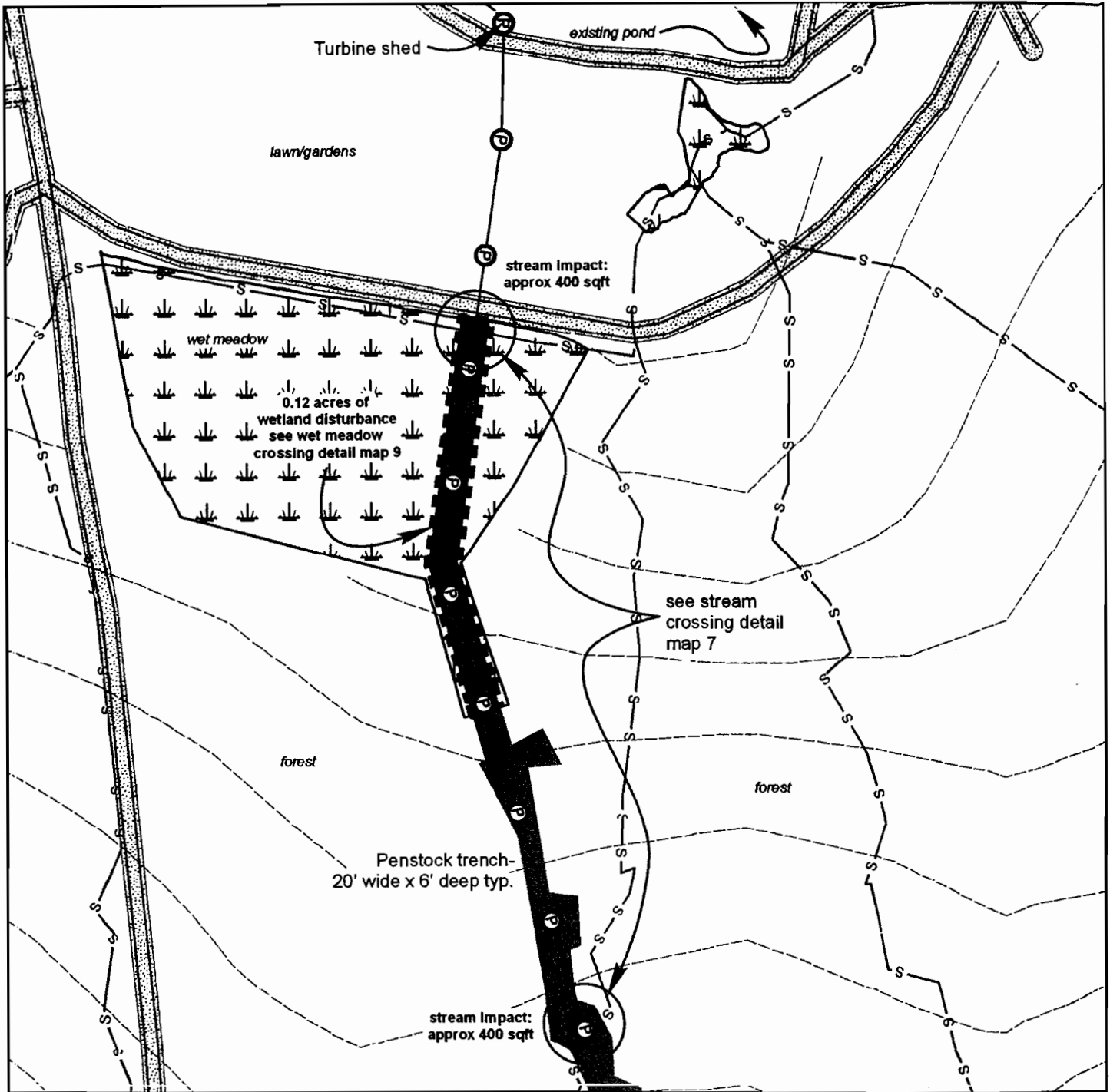
Teal Farm USACOE Individual Permit Application

drawing title: Siteplan Layout

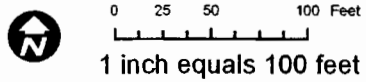
1/30/07, rev. 2/26/07
prepared by AW







- Existing roads/trails
- 1' contour (approx)
- 10' contour (approx)
- Streams
- Delineated wetlands
- Wetland impact
- Construction disturbance
- Existing culvert
- Curtain drain
- Proposed penstock
- Cathedral Pond



Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Wetland delineations and survey by Arrowwood Environmental. Other site data from VCGI, Arrowwood Environmental, Grover Engineering, Whole Systems Design & Birdseye Building Co. Topographic references based on Little River Existing Conditions Survey, 2004, revised and expanded by Grover Engineering, 2006.

Teal Farm USACOE Individual Permit Application

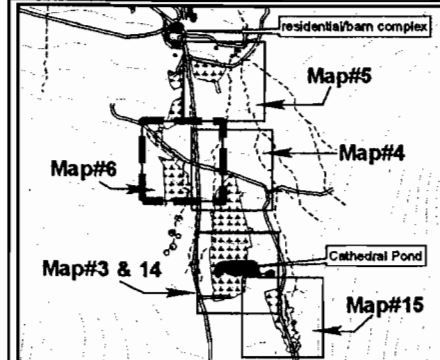
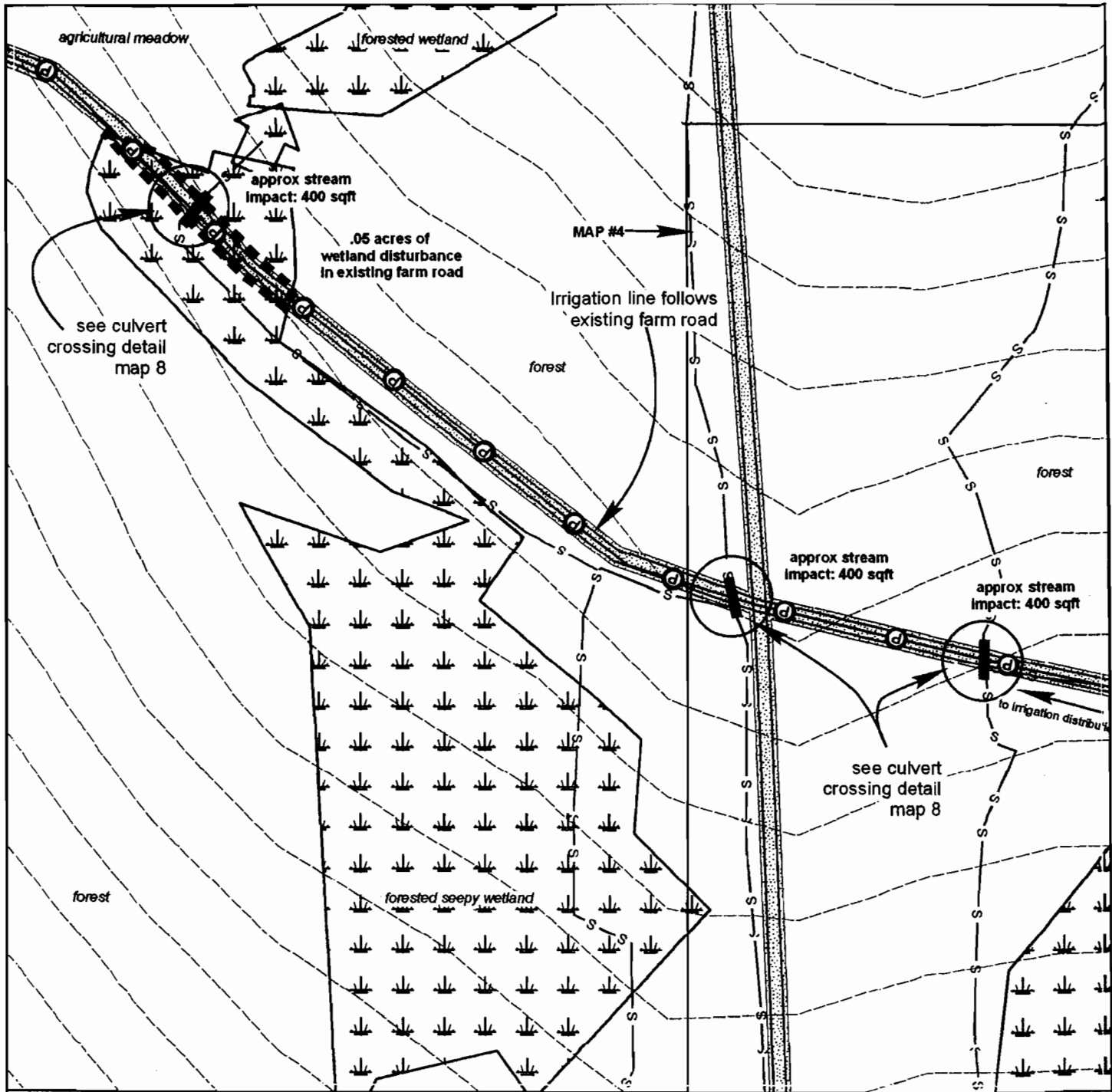
drawing title: Lower Penstock Wetland & Stream Impacts

prepared by AW

2/02/2007, rev. 3/19/07

revisions: 2/26/07, per ACOE comments





Existing roads/trails	Delineated wetlands	Curtain drain
1' contour (approx)	Wetland impact	Proposed penstock
10' contour (approx)	Construction disturbance	Cathedral Pond
Streams	Existing culvert	

Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Wetland delineations and survey by Arrowwood Environmental. Other site data from VCGI, Arrowwood Environmental, Grover Engineering, Whole Systems Design & Birdseye Building Co. Topographic references based on Little River Existing Conditions Survey, 2004, revised and expanded by Grover Engineering, 2006.

0 25 50 100 Feet
1 inch equals 100 feet

Teal Farm USACOE Individual Permit Application

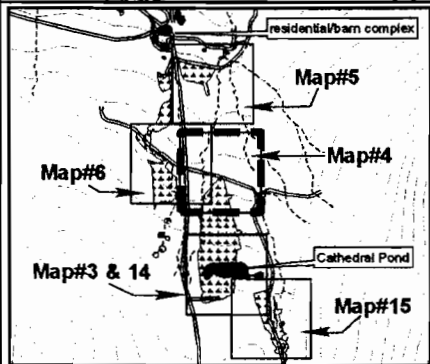
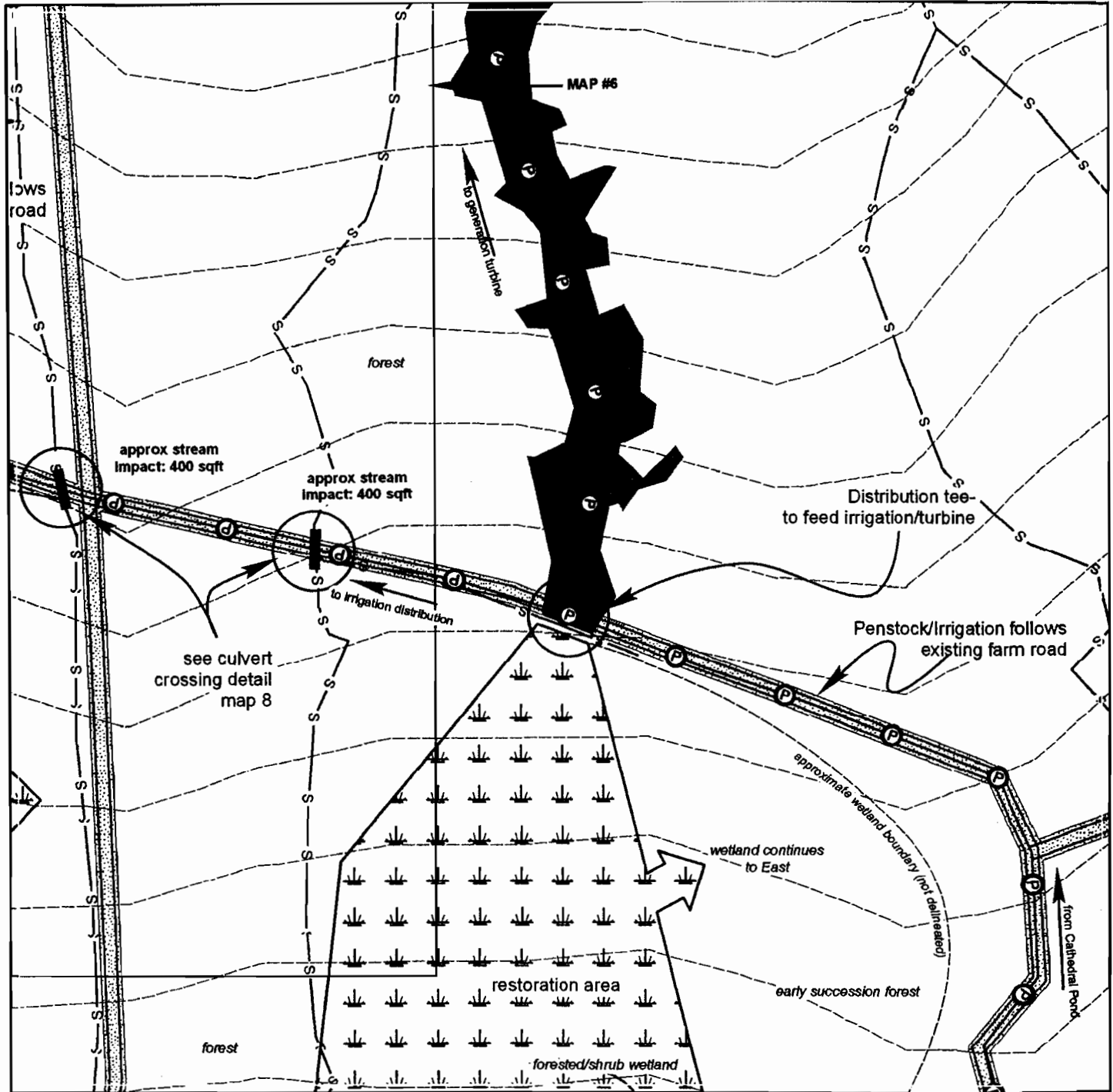
drawing title: Irrigation Line Wetland & Stream Impacts

prepared by AW

2/02/2007, rev. 3/19/07

revisions: 2/26/07, per ACOE comments





- Existing roads/trails
- 1' contour (approx)
- 10' contour (approx)
- Streams
- Delineated wetlands
- Wetland impact
- Construction disturbance
- Existing culvert
- Curtain drain
- Proposed penstock
- Cathedral Pond

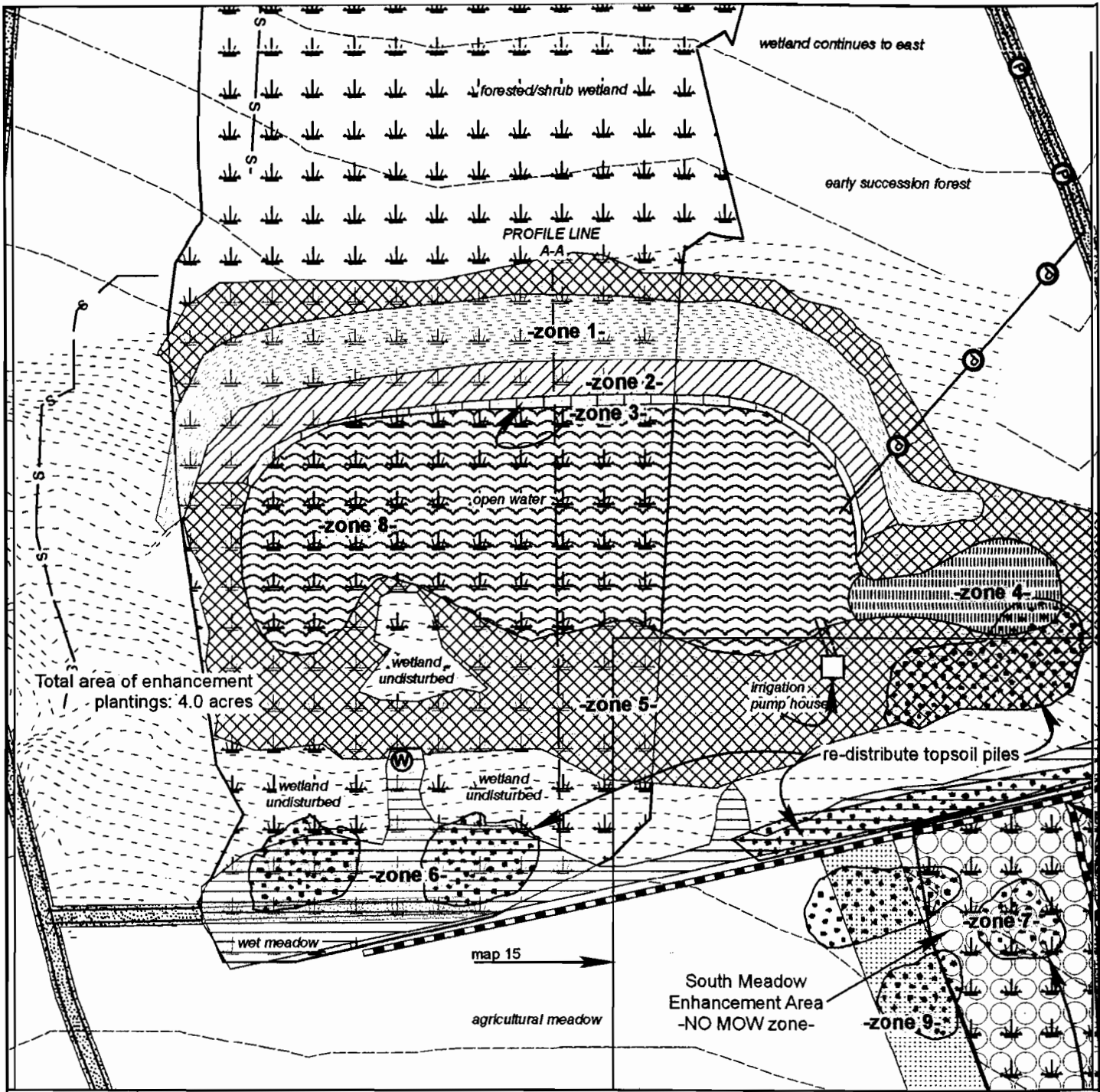
Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Wetland delineations and survey by Arrowwood Environmental. Other site data from VCGI, Arrowwood Environmental, Grover Engineering, Whole Systems Design & Birdseye Building Co. Topographic references based on Little River Existing Conditions Survey, 2004, revised and expanded by Grover Engineering, 2006.

Teal Farm USACOE Individual Permit Application

drawing title: Irrigation Tee Stream Impacts

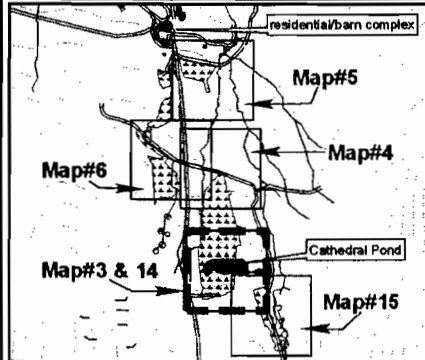
prepared by AW
 2/02/2007, rev. 3/19/07
 revisions: 2/26/07, per ACOE comments





Total area of enhancement plantings: 4.0 acres

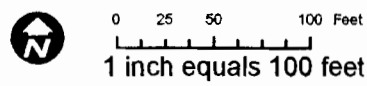
South Meadow Enhancement Area -NO MOW zone-



- Existing roads/trails
- 1' contour (approx)
- 10' contour (approx)
- Delineated wetlands
- Construction soil piles
- Streams
- Curtain drain
- Proposed penstock

Enhancement planting zones

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Wetland delineations and survey by Arrowwood Environmental. Other site data from VCGI, Arrowwood Environmental, Grover Engineering, Whole Systems Design & Birdseye Building Co.

Teal Farm USACOE Individual Permit Application
 drawing title: Cathedral Pond Enhancement Plantings/Mitigation

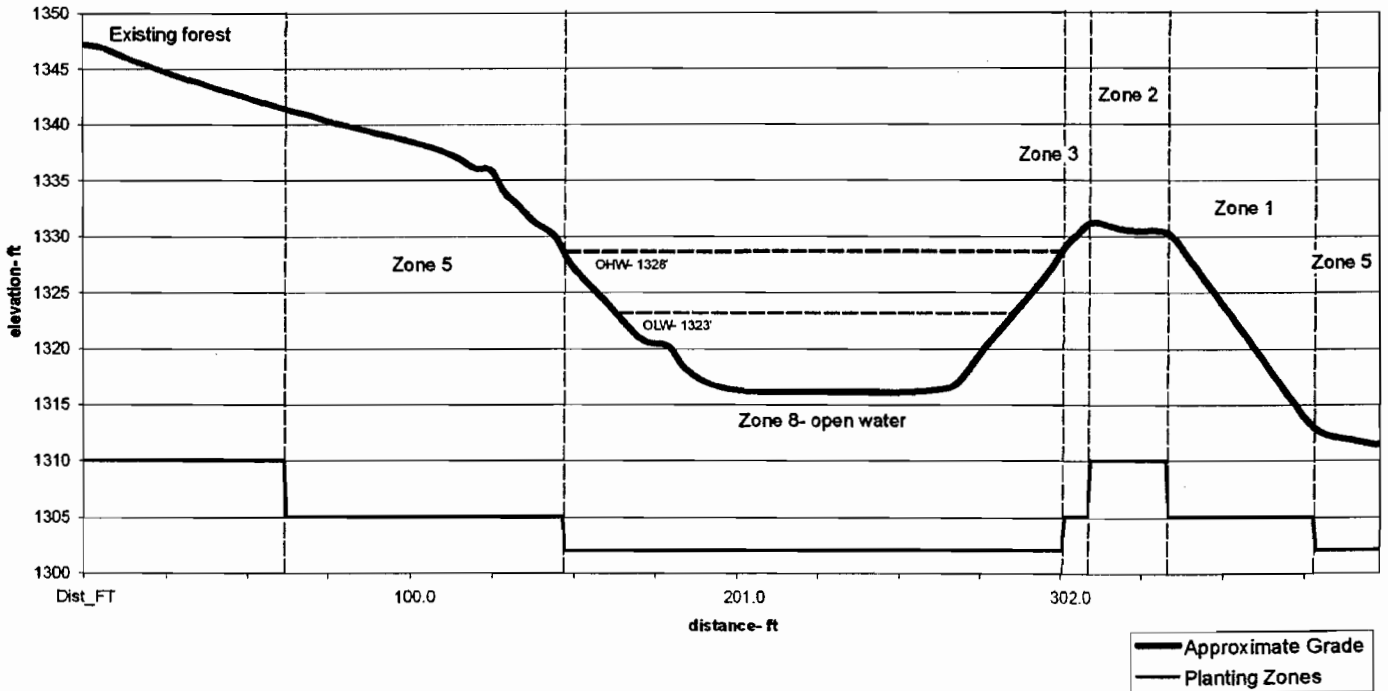


Feb 02, 2007, rev. 3/12/07, 3/20/07
 prepared by AW

Cathedral Pond Cross Section Planting Plan

ZONE	SPECIES	COMMON NAME
1 – Upland Plants (.56 acres) Sideslope of Berm	<i>Uvularia sessilifolia</i>	Wild Oats
	<i>Coptis groenlandica</i>	Goldthread
2 – Upland Plants (.30 acres) Top of Berm	<i>Trifolium pratense</i>	Red clover
	<i>Andropogon spp.</i>	Bluestem
	<i>Lolium perenne</i>	Perennial ryegrass
3- Shallow Emergent Marsh (.06 acres)	<i>Pontederia cordata</i>	Pickerelweed
	<i>Thelypteris palustris</i>	Eastern Marsh Fern
	<i>Sagittaria latifolia</i>	Arrowhead
	<i>Acorus calamus</i>	Sweetflag
	<i>Iris versicolor</i>	Blue Flag
5 – Saturated Soils: Scrub Shrub (1.67 acres) (1.67 acres) (Current Wet Meadow)	<i>Sambucus canadensis</i>	Elderberry
	<i>Ilex verticillata</i>	Winterberry
	<i>Alnus rugosa</i>	Speckled Alder
	<i>Cornus amomum</i>	Silky Dogwood
	<i>Cornus sericea</i>	Red Osier Dogwood
8--Open Water (1.3 acres)	<i>Nymphaea odorata</i>	Fragrant Water Lily
	<i>Elodea Canadensis</i>	Waterweed

Cathedral Pond Profile A-A

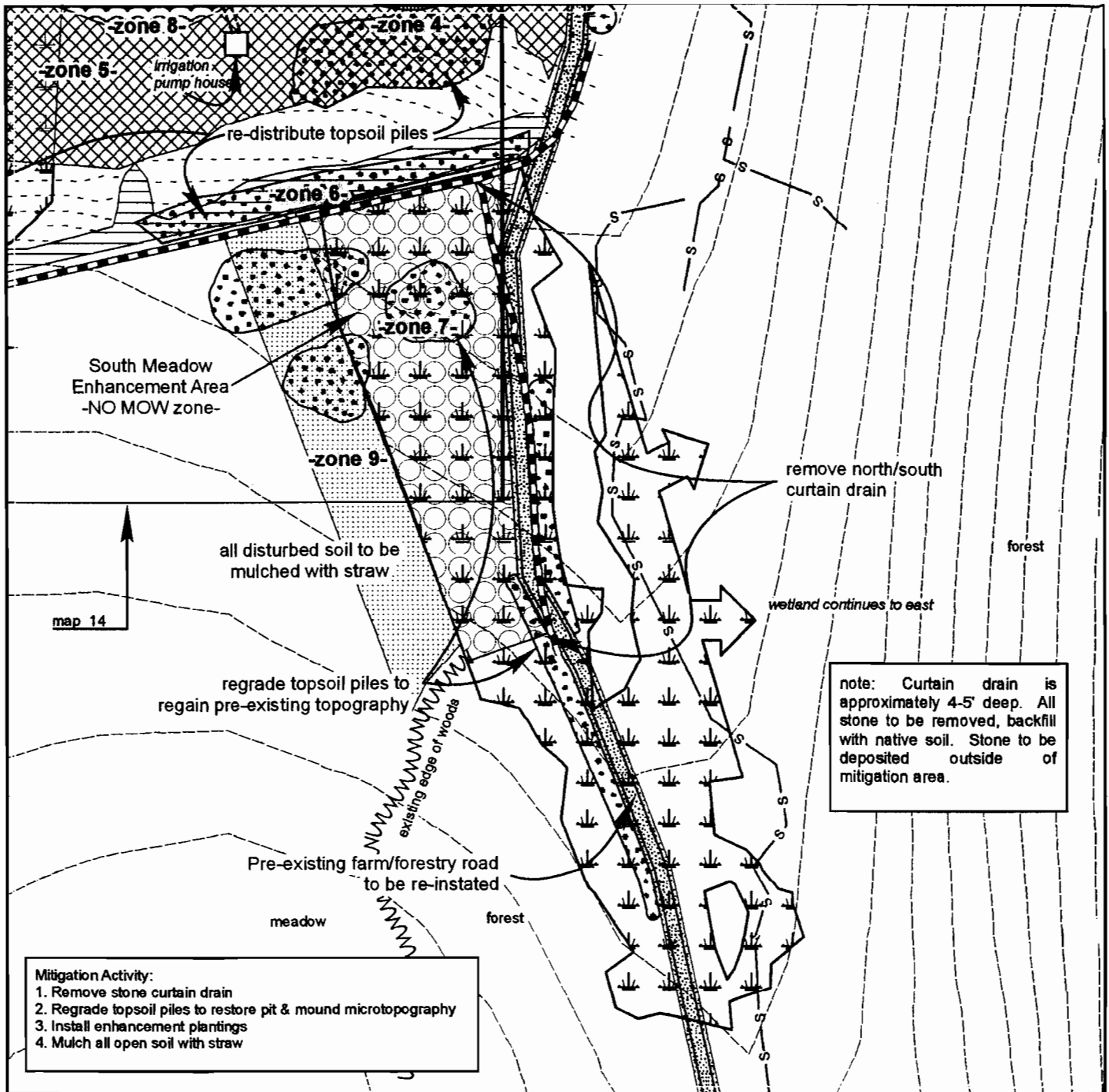


NOT TO SCALE- Vertical scale exaggerated

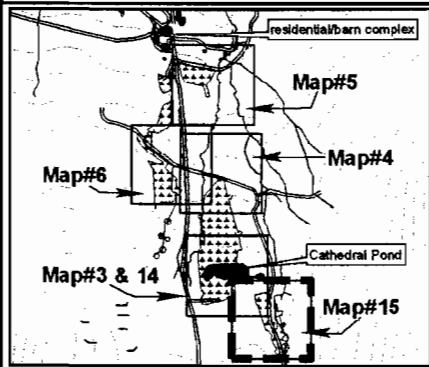
Teal Farm USACOE Individual Permit Application
drawing title: Cathedral Pond Enhancement Plantings-Profile



3/12/07, rev. 3/20/07
 prepared by AW

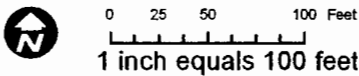


- Mitigation Activity:**
1. Remove stone curtain drain
 2. Regrade topsoil piles to restore pit & mound microtopography
 3. Install enhancement plantings
 4. Mulch all open soil with straw



- Existing roads/trails
- 1' contour (approx)
- 10' contour (approx)
- Delineated wetlands
- Construction soil piles
- Streams
- Curtain drain
- Proposed penstock

- Enhancement planting zones**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9



Sources: Property lines from Town of Huntington, 2000. Surface water from VHD (VCGI) and onsite GPS. Wetland delineations and survey by Arrowwood Environmental. Other site data from VCGI, Arrowwood Environmental, Grover Engineering, Whole Systems Design & Birdseye Building Co.

Teal Farm USACOE Individual Permit Application
drawing title: *South Meadow Seep Wetland Mitigation*



Feb 02, 2007, rev. 3/12/07, 3/20/07
prepared by AW