

Batched Document Section Form (yellow)

(w/in folder document separator and file name ID)

Permit number: 710555

PDF file name:

- **Note to Vendor:** replace "#####" with permit number from above

#####_Decision

#####_Application_Documents

▪ or #####_Application_Documents_Exhibits__-__

(fill in exhibit number range)

#####_District_Commission_Documents

#####_Post-Decision_Documents

#####_Associated_Documents

Exempt in this batch:

Loose plans with this batch:



Hardwick Police Chief Don Stubbs explains a point about Hardwick's proposed ice reduction plan to District 7

Environmental Commissioners Nancy Hill, Benjamin Butterfield and John Marshall at the Act 250 hearing last Thursday.

TO MY MOM

*We didn't always see eye to eye,
I'd say hello, I'd say goodbye.
Your hopes and dreams,
They weren't mine.
I didn't want to listen, half-the-time.*

*But the years went by,
We both grew older -
Both of us, the same kind of soldier.
Along the end we understood,
That each of us had misunderstood,
That life is life
And living is living,
And we might as well
Forget our misgivings.
So toward the last, good buddies we became
You not questioning me and
I the same.
So when you went to rest
with Dad,
I was sad and I was glad,
Cause you're happy now I know,
You're reunited with the
man you loved.*

*So just to let you rest in
peace, I want you to know
I've never ceased...*

*to love you -
Always,
Your daughter
Cheryl LaViolette*

Thanks to
Dian & Steven Holcolm
Riverside Chapter #32
Anna Janci
Pat Lambert
Maude & John Cox

Frank Pape
Doc & Sal Densmore
Lucinda Campbell
& all others

Boneless Shoulder Steak
Boneless Blade Steak
Fresh Ground Beef
Sliced Cooked Ham
Buttercup Squash
McIntosh Apples
Tomatoes
Lettuce
Betty Crocker Brownie Mix
Home Earth Yeast Bread Mix
Planters Cheese Balls
Product 19 Cereal
Cains Dressing - 10 o
LaRosa Egg Noodles
Lipton Trim Cup-a-soup - beef & chi
Libby Corned Beef
Empress Chunk Lite Tuna/wat
Royal Guest Sweet Peas

District # VLL

PROJECT REVIEW SHEET

Applicant HARDWICK TOWN OF

Application # _____

THIS IS NOT A PERMIT

Town HARDWICK

On July 24 /19 83 I reviewed information concerning a project on a tract or tracts of land of 10⁺ acres, proposed by TOWN OF HARDWICK. The project will be on lands owned by VILLAGE OF HARDWICK AND PRIVATE LANDOWNERS in HARDWICK, Vermont, and is generally described as:

ICE REDUCTION PLAN FOR THE VILLAGE OF HARDWICK
Project involves ① Clearcutting and destumping approximately 8 acres west of Village for winter river ice storage along Lamoille River
② EXCAVATING SAND BARS WEST OF ICE STORAGE AREA
③ CONSTRUCTION OF ICE BOOMS AND ICE RAILS UPSTREAM OF Village
④ CONSTRUCTION OF DIVERSION CHANNEL OPPOSITE ICE STORAGE AREA

A permit must be obtained for this project under the following permit programs which I have checked:

YES ACT 250 PROTECTION DIVISION PERMITS: _____ Deferral of Subdivision; _____ Public Building; _____ Subdivision; _____ Tent and Travel Trailer; _____ Mobile Home Park Law; YES Stream Alteration Law; FISH AND GAME DEPT. PERMIT: _____ Stream Obstruction Permit

Prior permits from this office: # _____

The above jurisdictional determination is based upon the project specifically as described above and the following:

MUNICIPAL PROJECT INVOLVING MORE THAN 10 ACRES REQUIRES ACT 250 REVIEW - JCU

THESE ARE THE ONLY PERMITS OBTAINABLE FROM THIS OFFICE. NO CONSTRUCTION OR SALE OF LOTS IS PERMITTED UNTIL ALL PERMITS CHECKED ABOVE HAVE BEEN ISSUED IN WRITING.

THIS IS AN ADVISORY OPINION AND MAY BE APPEALED. ANY PARTY WHO DISAGREES WITH THIS OPINION MAY REQUEST A REVIEW BY THE EXECUTIVE OFFICER OF THE ENVIRONMENTAL BOARD, (ACT 250), OR THE DIRECTOR OF THE PROTECTION DIVISION, AS APPROPRIATE. ANY SUCH REQUEST MUST BE MADE IN WRITING THROUGH THIS OFFICE BY AUG 26 /19 83.

I also recommend that you contact the following Vermont State agencies because this project may need approval under their programs:

- AGENCY OF ENVIRONMENTAL CONSERVATION, Montpelier, VT 05602

_____ Air Pollution Control (828-3395)	_____ Use of Chemicals in state waters (828-2761)
_____ Dams & Hydro Projects (828-3357)	_____ Extension of Sewer Lines (828-3345)
_____ Lands Underlying Public Waters (828-2871)	_____ Municipal Water Line Ext. (828-3345)
_____ Discharge or Temporary Pollution Permit (828-3345)	_____ Bulk Fuel/Chemical Storage/Hazardous Wastes (828-3395)
_____ Sanitary Landfills (828-3395)	_____ Burning of Waste Oils/Solvents (828-3395)
_____ Industrial Furnace/Boiler Conversions to Oil/Wood (828-3395)	
- DEPARTMENT OF LABOR AND INDUSTRY, Montpelier, VT 05602 - Tel. 828-2106

_____ Electrical Wiring Approval	_____ Tramways and Ski Facilities
_____ Fire Prevention Approval	_____ Storage of Flammable Liquids, Explosives
_____ Access for the Handicapped Approval	_____ Elevators
_____ Boilers and Pressure Vessels	_____ Plumbing in Single Family Residences served by Public Water/Sewer w/10 or more customers
- DEPARTMENT OF HEALTH, Burlington, VT 05401 - Tel. 862-5701 (Contact: _____)

_____ Food, lodging, bakeries and children's camps	_____ Public water systems
_____ Nursing homes, hospitals and homes for the aged	_____ Extensions of water lines over 500'
- DISTRICT TRANSPORTATION ADMINISTRATOR (Consult the telephone directory under VERMONT, STATE OF, Highways) (Contact: _____)

_____ Access to State Highways (Residential Driveways)	_____ Development within 500' of a limited access highway
--	---
- AGENCY OF TRANSPORTATION, Montpelier, VT 05602 - Tel. 828-2823

_____ Signs (Travel Information Council) (828-2651)	_____ Airports and Landing Strips (828-2828)
_____ Construction within a state highway right-of-way (Utilities, Signs, Driveways) (828-2653)	_____ Junkyards (828-2587)
- DEPARTMENT OF AGRICULTURE, Montpelier, VT 05602 - Tel. 828-2413 (Contact: _____)

_____ Use of Pesticides	_____ Slaughter Houses
_____ Milk Facilities	_____ Kennels
- AGENCY OF HUMAN SERVICES, Waterbury, VT 05676 - Tel. 241-2158 (Contact: _____)

_____ Day Care Facilities	_____ Residential Child Care Facilities
_____ Community Care Homes	
- PUBLIC SERVICE BOARD (828-2319)

_____ Hydro Projects	_____ Alternative Sources of Energy
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- LOCAL PERMITS - Contact your town officials
- OTHER: _____

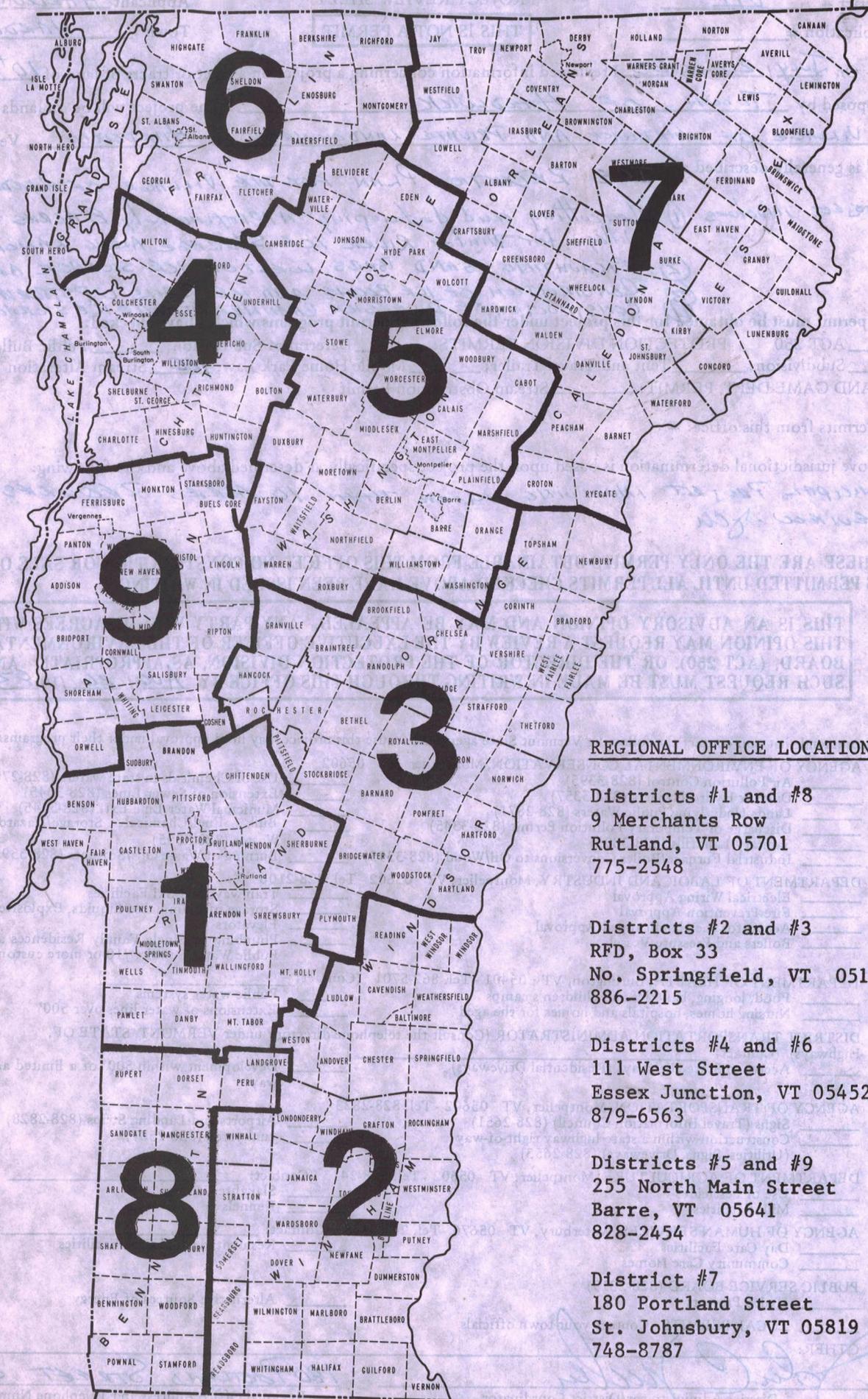
BY [Signature]
District Administrator/District Coordinator

180 PORTLAND STREET ST JOHNSBURY
Regional Office Address and Telephone Number

748-2787

Sent to 6084 parties: yes no

DISTRICT ENVIRONMENTAL COMMISSION BOUNDARY MAP



REGIONAL OFFICE LOCATIONS

Districts #1 and #8
 9 Merchants Row
 Rutland, VT 05701
 775-2548

Districts #2 and #3
 RFD, Box 33
 No. Springfield, VT 05150
 886-2215

Districts #4 and #6
 111 West Street
 Essex Junction, VT 05452
 879-6563

Districts #5 and #9
 255 North Main Street
 Barre, VT 05641
 828-2454

District #7
 180 Portland Street
 St. Johnsbury, VT 05819
 748-8787

ENVIRONMENTAL CONSERVATION AND ENVIRONMENTAL BOARD
PROJECT REVIEW SHEET

7C0555

Applicant HARDWICK TOWN OF
Town HARDWICK

THIS IS NOT A PERMIT

I reviewed information concerning a project on a tract or tracts of land of 10⁺ acres,
OF HARDWICK. The project will be on lands owned
BY INDIVIDUALS AND PRIVATE LANDOWNERS in HARDWICK, Vermont,

District # VII
Application # _____
On JULY 26 /19 93 EXECUTING SAND BARS WEST OF ICE STORAGE AREA
CONSTRUCTION OF ICE BOOMS AND ICE RAILS UPSTREAM OF VILLAGE
CONSTRUCTION OF DIVERGION CHANNEL OPPOSITE ICE STORAGE AREA

A permit must be obtained for this project under the following permit programs which I have checked:

YES ACT 250 PROTECTION DIVISION PERMITS: _____ Deferral of Subdivision; _____ Public Building;
_____ Subdivision; _____ Tent and Travel Trailer; _____ Mobile Home Park Law; YES Stream Alteration Law;
FISH AND GAME DEPT. PERMIT: _____ Stream Obstruction Permit

Prior permits from this office: #

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_____ Industrial Furnace/Boiler Conversions to Oil/Wood (828-3395)	
- DEPARTMENT OF LABOR AND INDUSTRY, Montpelier, VT 05602 - Tel. 828-2106

_____ Electrical Wiring Approval	_____ Tramways and Ski Facilities
_____ Fire Prevention Approval	_____ Storage of Flammable Liquids, Explosives
_____ Access for the Handicapped Approval	_____ Elevators
_____ Boilers and Pressure Vessels	_____ Plumbing in Single Family Residences served by Public Water/Sewer w/10 or more customers
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_____ Food, lodging, bakeries and children's camps	_____ Public water systems
_____ Nursing homes, hospitals and homes for the aged	_____ Extensions of water lines over 500'
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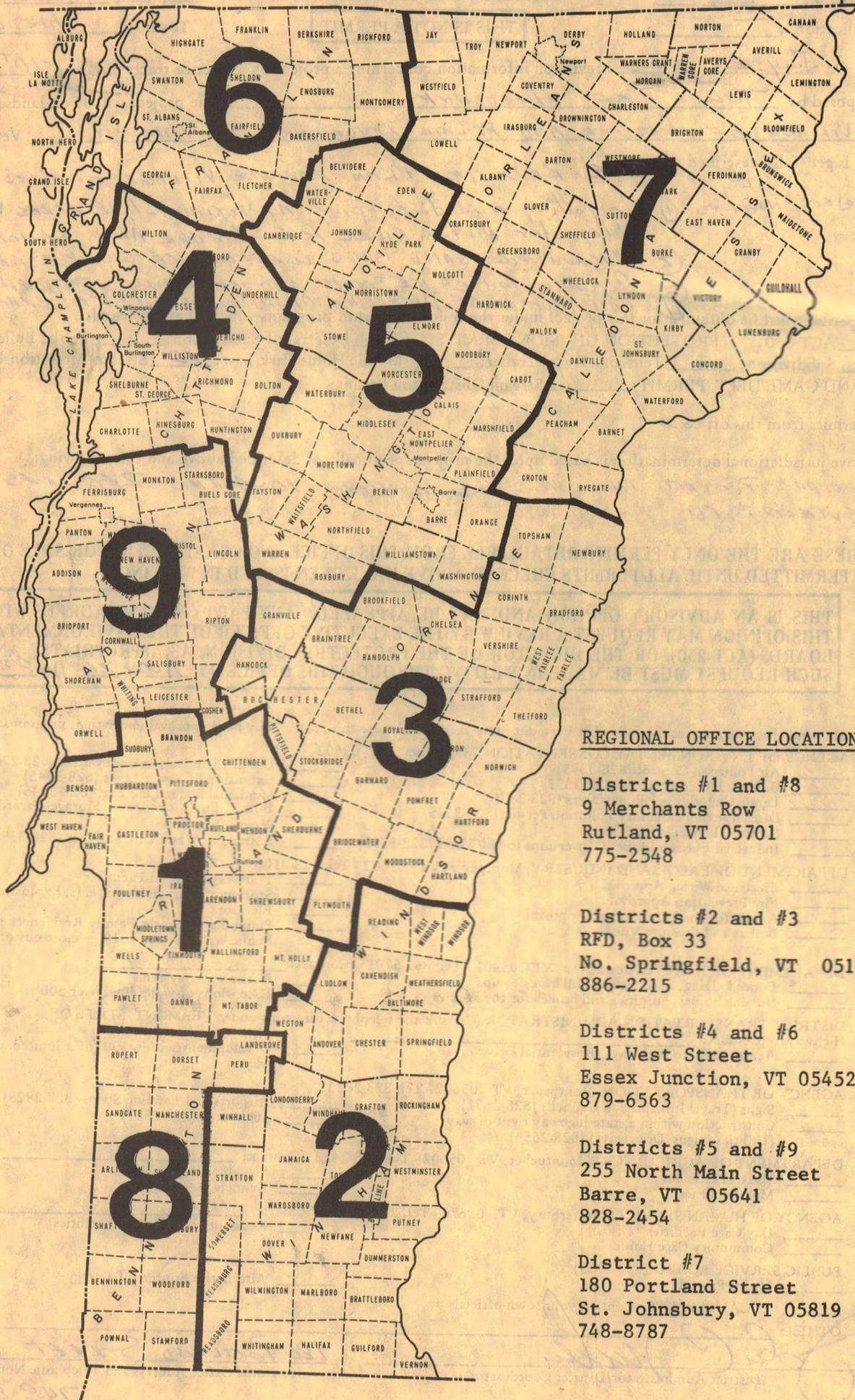
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_____ Milk Facilities	_____ Kennels
- AGENCY OF HUMAN SERVICES, Waterbury, VT 05676 - Tel. 241-2158 (Contact: _____)

_____ Day Care Facilities	_____ Residential Child Care Facilities
_____ Community Care Homes	
- PUBLIC SERVICE BOARD (828-2319)

_____ Hydro Projects	_____ Alternative Sources of Energy
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- LOCAL PERMITS - Contact your town officials
- OTHER: _____

BY [Signature] District Administrator/District Coordinator
180 PORTLAND STREET ST JOHNSBURY Regional Office Address and Telephone Number
748-2787

DISTR. ENVIRONMENTAL COMMISSION BOUND. MAP



REGIONAL OFFICE LOCATIONS

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 255 North Main Street
 Barre, VT 05641
 828-2454

District #7
 180 Portland Street
 St. Johnsbury, VT 05819
 748-8787



**US Army Corps
of Engineers**

New York District
26 Federal Plaza
New York, N.Y. 10278
ATTN: REGULATORY BRANCH

OCT 13 1983
RECEIVED
OCT 6 '83
ENVIRONMENTAL
BOARD

Public Notice

In replying refer to:

Public Notice No. 11574-83-625-VT

Published: 30 SEP 83 Expires: 31 OCT 83

To Whom It May Concern:

This District has received an application for a Department of the Army permit pursuant to

Section 10 of the River and Harbor Act of 1899 (33 U.S.C. 403);

Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Town of Hardwick
2 Church Street
Hardwick, Vermont 05843

ACTIVITY: Construction of experimental ice-reduction structures

WATERWAY: Lamoille River, Lake Champlain Basin

LOCATION: Hardwick, Caledonia County, Vermont

A detailed description and plans of the applicant's activity are inclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the activity must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the activity will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, 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.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise it will be presumed that there are no objections to the activity.

Any person may request, in writing to the district engineer, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Regulatory Branch

Public Notice No. 11574-83-625-VT

RECEIVED
30 September 1983

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531) and based upon a review of the latest published version of the threatened and endangered species listing, a preliminary determination is that the activity under consideration will not affect those species listed or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for or included in the Register within the permit area. Presently unknown archeological, scientific, prehistorical or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will 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 the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307(c) of the Coastal Zone Management Act of 1972 as amended (16 U.S.C. 1456(c)), for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with and will be conducted in a manner that is consistent with the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from, and any comments on, should be addressed to the New York State Department of State, Division of Local Government and Community Services, Coastal Management Program, 162 Washington Avenue, Albany, New York 12231 Telephone (518) 474-5063.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorizations for the activity under consideration:

Stream Alteration Permit and Act 250 Permit Hearing
from the State of Vermont Agency of Environmental
Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice.

If you have any questions concerning this application, you may contact this office at telephone (212) 264-0184 and ask for Mr. Monte Greges.

- 2 Incls:
1. Description of Work
2. Drawing(s)

F.H. Griffis
Colonel, Corps of Engineers
District Engineer

30 September 1983

DESCRIPTION OF WORK

The applicant, the Town of Hardwick, has requested Department of the Army authorization to place an experimental ice-reduction system in the Lamoille River, Lake Champlain, in the Town of Hardwick, Caledonia County, Vermont.

The system will consist of two tire booms, one fence boom, and two rail matrices to be placed at varying intervals along an approximate two mile stretch of the Lamoille River between the Towns of Hardwick and East Hardwick.

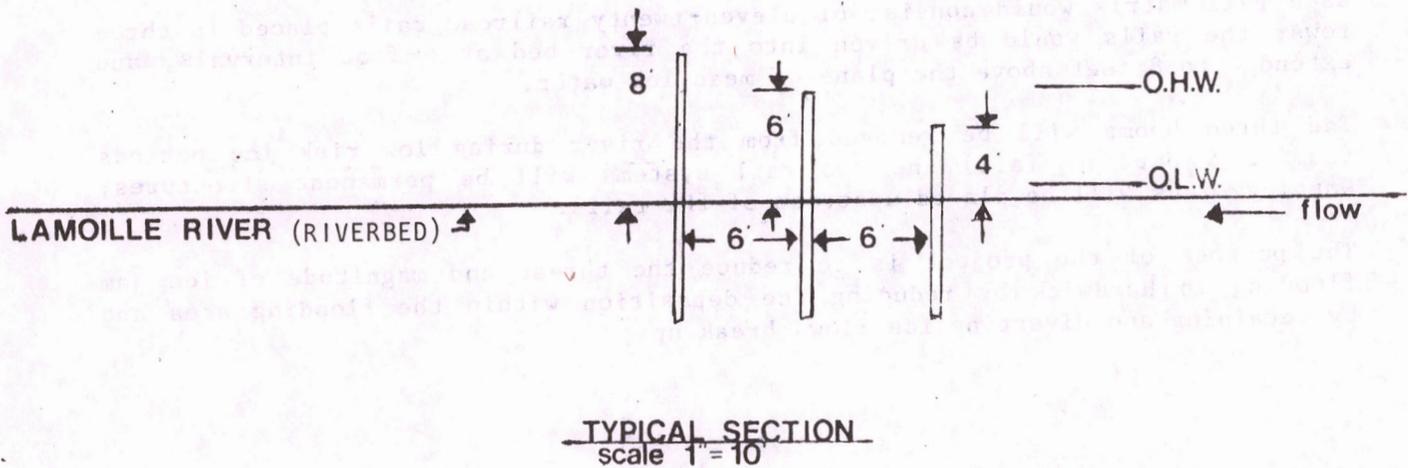
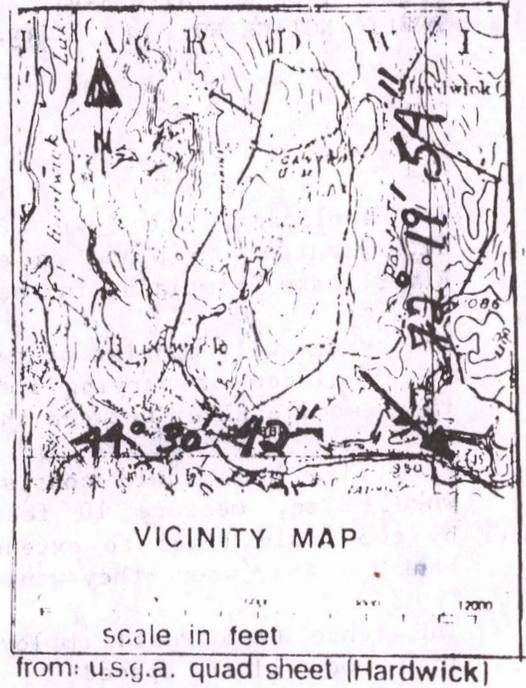
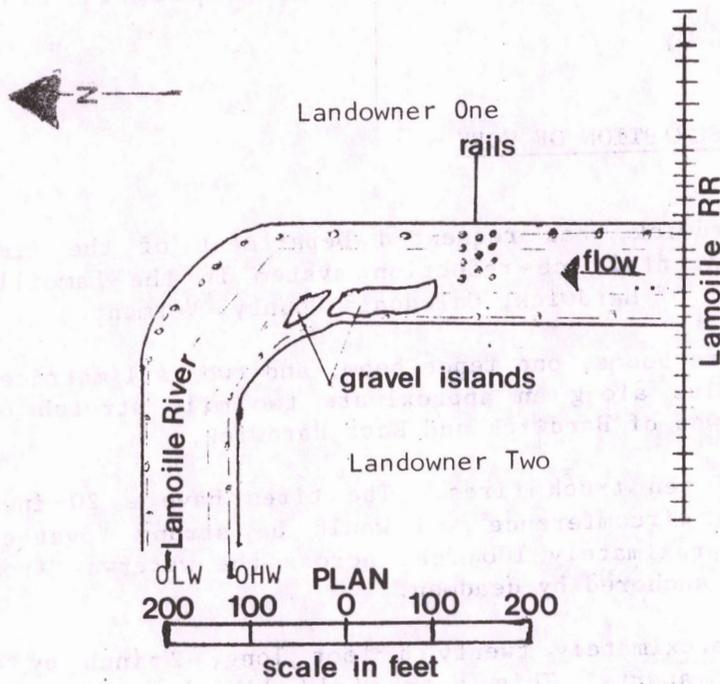
Each tire boom would consist of ten truck tires. The tires have a 20-inch wheel size, measure 10 feet in circumference and would be strung together by two cable lines to extend approximately 100 feet across the waterway from bank to bank, where they would be anchored by deadmen.

The fence boom would employ approximately twenty 6-foot long, 2-inch by 4 inch wood slats spaced $3\frac{1}{2}$ feet apart. This boom would likewise span the waterway 100 feet from bank to bank, using concrete anchor bolts.

Each rail matrix would consist of eleven-twenty railroad rails placed in three rows; the rails would be driven into the river bed at 6-foot intervals, and extend 4 to 8 feet above the plane of mean low water.

The three booms will be removed from the river during low risk ice periods (summer & part of fall) the two rail systems will be permanent structures; warning signs will be placed upstream of the rails.

The purpose of the project is to reduce the threat and magnitude of ice jam flooding in Hardwick by reducing ice deposition within the flooding area and by retaining and diverting ice flows break up.



holes 8" in diameter
 depth 6'
 rails 105 standard railroad rails
 holes stagger 6' on center
 ADJOINING LANDOWNERS:

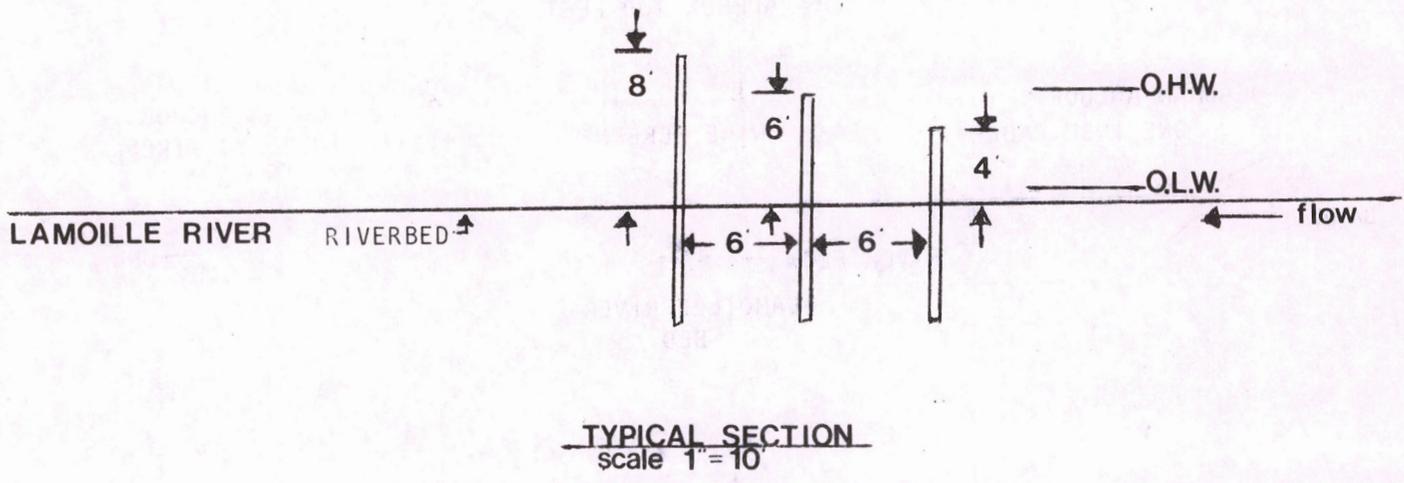
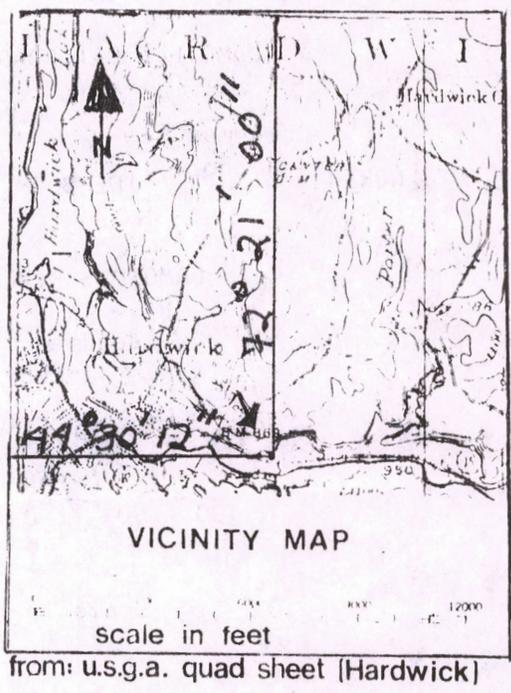
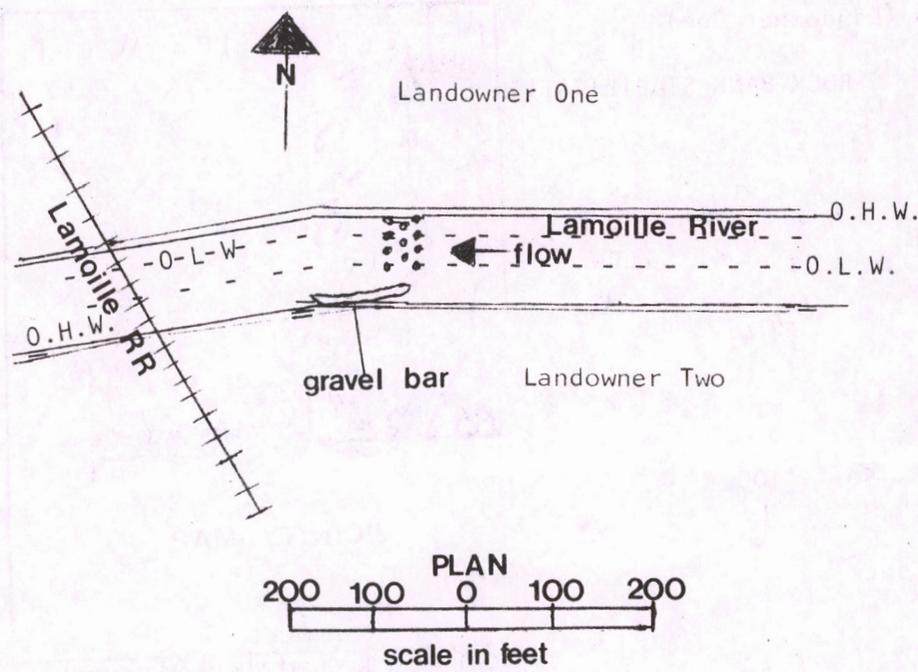
1. William Hill
Hardwick, Vermont 05843
2. Larry Bailey
Hardwick, Vt. 05843

DATUM: N.G.V.D. of 1929

**PROPOSED ICE
 REDUCTION PLAN / RAILS**

 In Lamolle River
 at Hardwick
 County of Caledonia
 State of Vermont
 application by: Town of
 Hardwick mks

 sheet 1 of 5 Date: 8/83

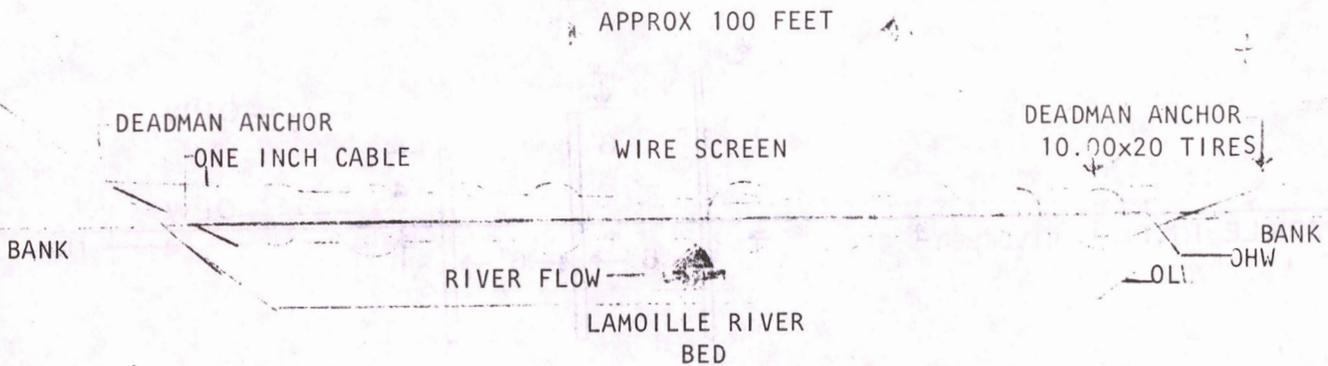
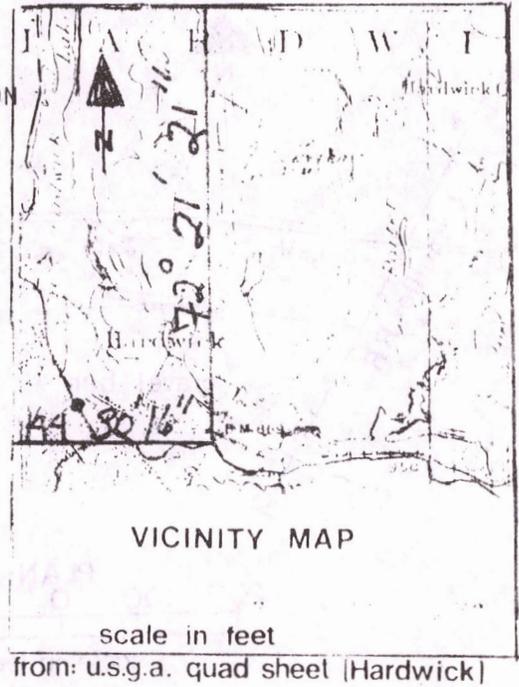
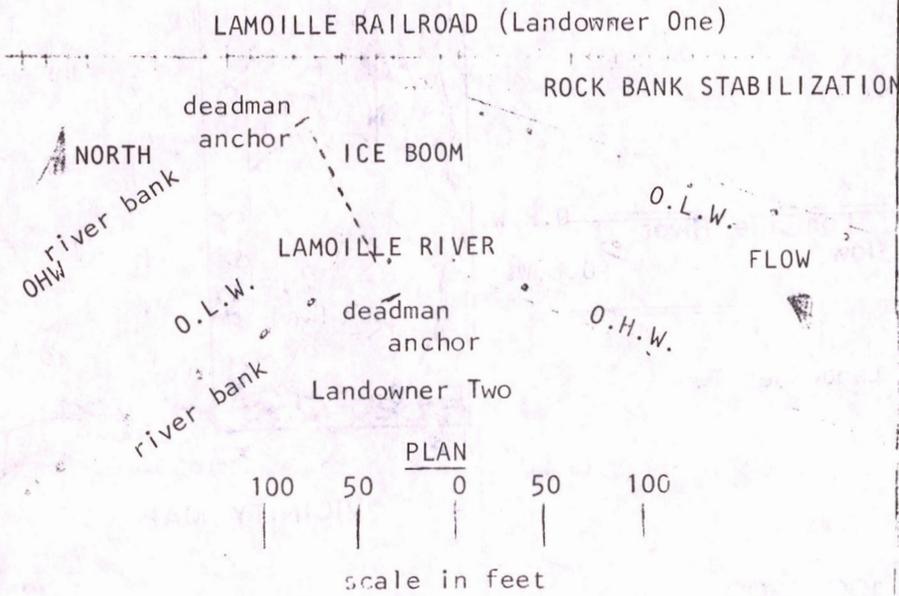


holes 8" in diameter
 depth 6'
 rails 105 standard railroad rails
 holes stagger 6' on center

ADJOINING PROPERTY OWNERS: 1. Larry Bailey
 Hardwick, Vermont 05843
 2. Same

Datum: N.G.V.D. of 1929

**PROPOSED ICE
 REDUCTION PLAN/ RAILS**
 in Lamoylle River
 at Hardwick
 County of Caledonia
 State of Vermont
 application by: Town of
 Hardwick *MCS*
 sheet 2 of 5 Date: *8/83*



TYPICAL SECTION
not to scale

DATUM: N.G.V.D. of 1929
ONE-INCH CABLE
10.00 X 20 TRUCK TIRES
DEADMAN ANCHORS

ADJACENT PROPERTY OWNERS:

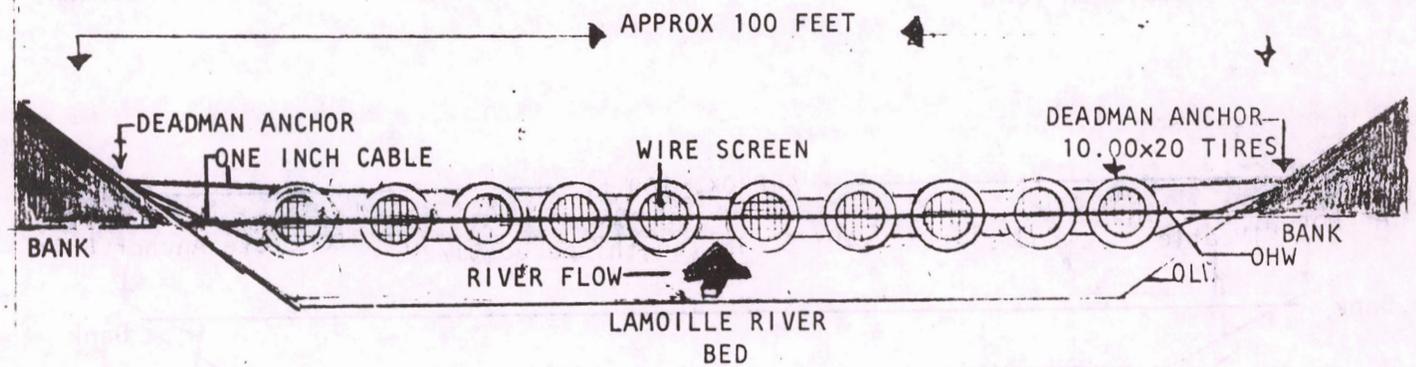
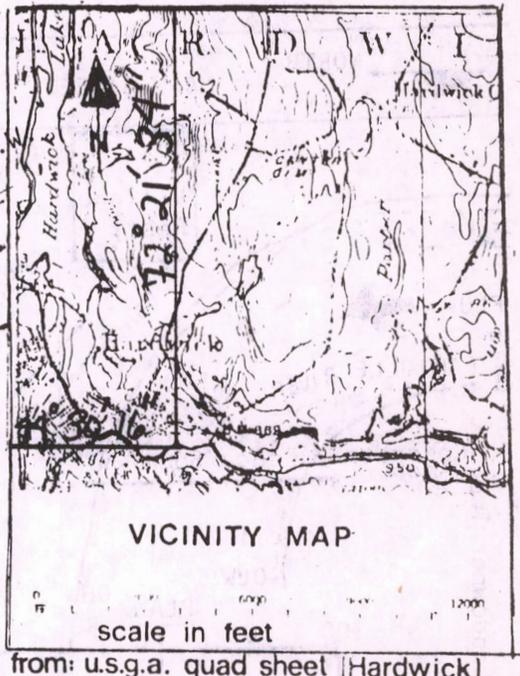
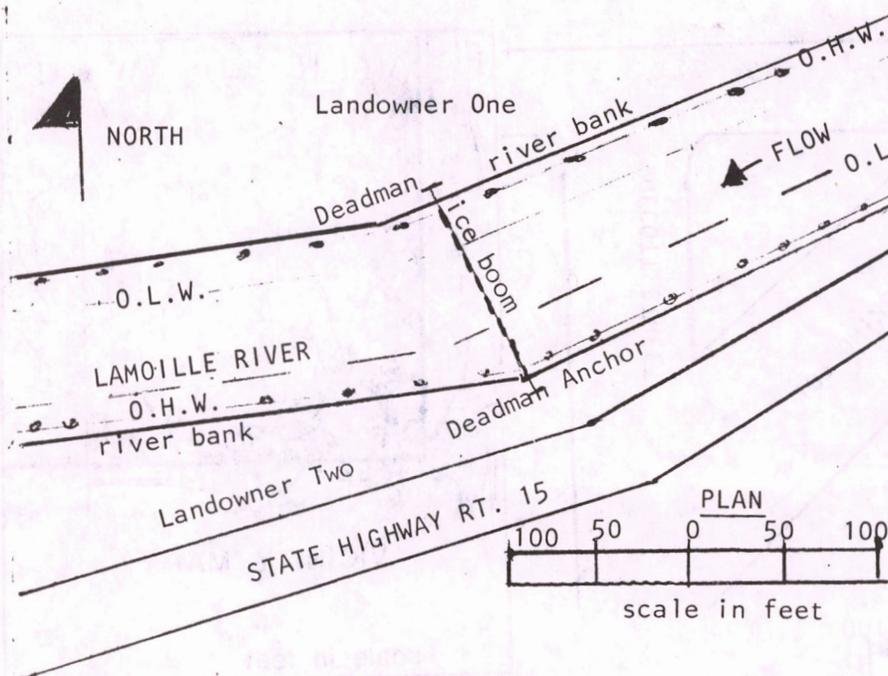
1. Lamoille Valley R.R.Co.
Morrisville, Vt. 05661
2. Howard Merrill
Sumner St.
Hardwick, Vermont 05843

PROPOSED ICE
REDUCTION PLAN / TIRE ICE
BOOM

in Lamoille River
at Hardwick
County of Caledonia
State of Vermont
application by: Town of
Hardwick *MKS*

sheet 3 of 5

Date: 8/83



TYPICAL SECTION
not to scale

DATUM: N.G.V.D. of 1929
 ONE-INCH CABLE
 10.00 X 20 TRUCK TIRES
 DEADMAN ANCHORS

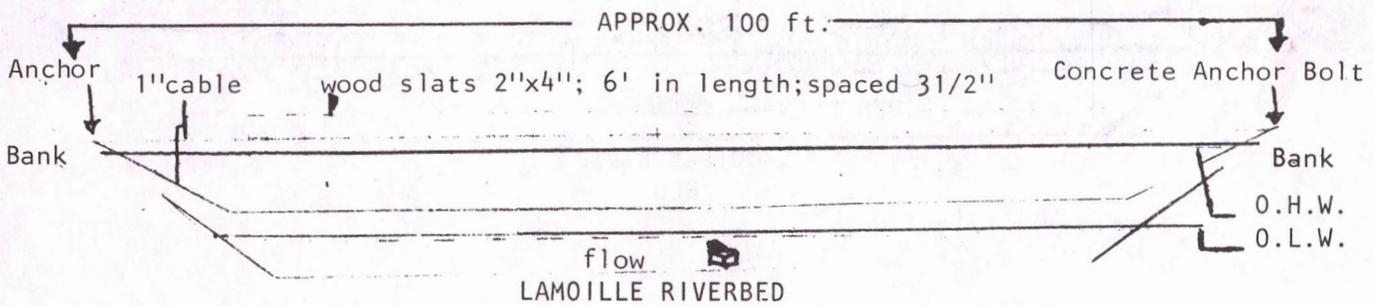
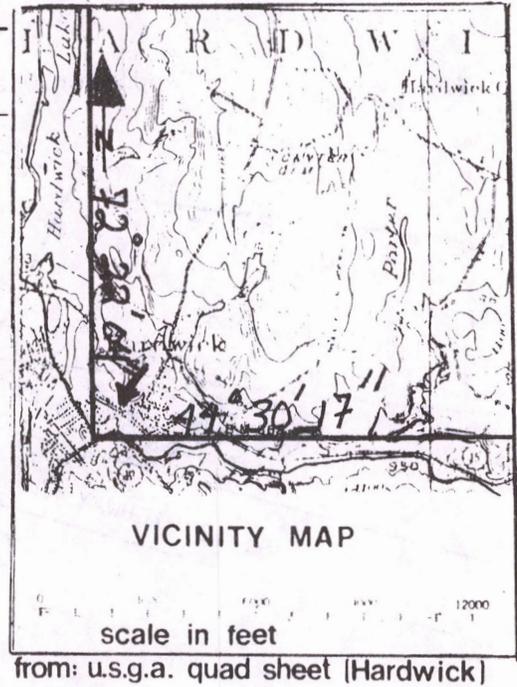
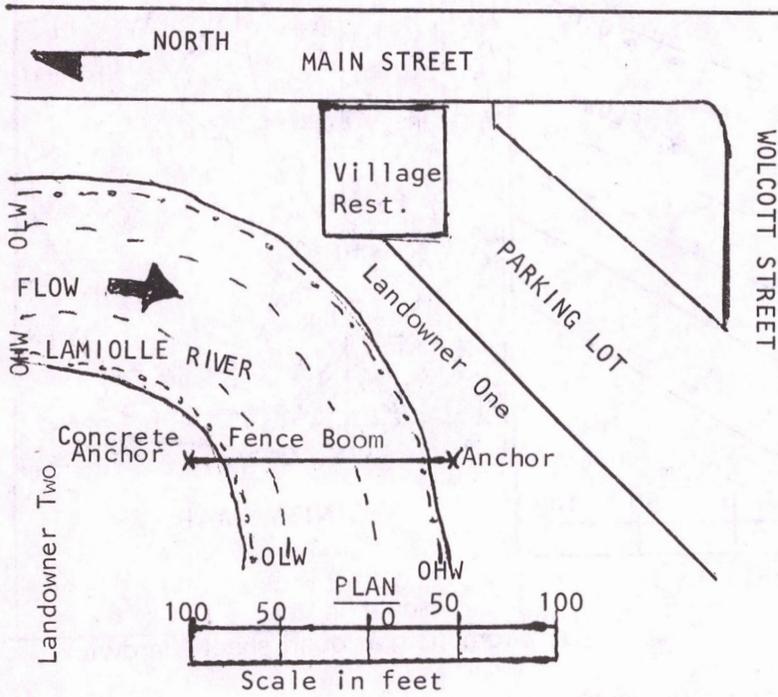
- ADJACENT PROPERTY OWNERS:
1. Mr. Howard Merrill
 Sumner Street.
 Hardwick, Vermont 05843
 2. Agency of Transportation
 District Highway 7
 c/o Hugh Elder
 St. Johnsbury, Vt 05819

**PROPOSED ICE
 REDUCTION PLAN / TIRE ICE
 BOOM**

in Lamaille River
 at Hardwick
 County of Caledonia
 State of Vermont

application by: Town of
 Hardwick mks

sheet 4 of 5
 Date: 8/83



TYPICAL SECTION
not to scale

DATUM: N.G.V.D. of 1929

One-inch cable

Wood Slats: 6 ft. in length

2" X 4"

Spaced 3 1/2" apart

Concrete Anchor Bolts

Adjoining Landowners: 1. Town of Hardwick
Hardwick, Vermont 05843

2. William Hill
Hardwick, Vermont 05843

PROPOSED ICE
REDUCTION PLAN / FENCE BOOM

in Lamoille River
at Hardwick

County of Caledonia
State of Vermont

application by: Town of
Hardwick M&S

sheet 5 of 5

Date: 8/03