Silver Lake Dam
Barnard-Exhibits

Dam Heavy



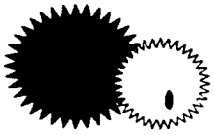
SILVER LK. DAM
BARNARD



SILVER LK. DAM
BARNARD



SILVER LK. DAM
BARNARD



Two Dogs Trucking
P.O. Box 284
Stage Road
Barnard, VT 05031
Phone (802) 234- 9705

Bob Finucane
St. of Vt. Dam Safety Program
103 So. Main St.
Waterbury, VT 05671-0407

BILLING DATE: 6/8/00
ACCOUNT State of Vt. Dam Safety

ACCOUNT ACTIVITY

DATE	Person	DESCRIPTION	TIME CHARGES	AMOUNT DUE
6/7/00	Lance Webster	Clearing brush-Silver Lake Dam	6 hours @ $25.00/hr.	$150.00
			TOTALS:	$150.00
			PLEASE PAY THIS AMOUNT:	$150.00

Thank you, Lance Webster.
1.5% interest charged after 30 days.

DEC FED Dam Maint.
Aid #16928-4

Dick to pay
6/9/00
am

DUBOIS & KING
ENGINEERS - PLANNERS
30 South Main Street
Randolph, Vermont

Extra Work
Order No. 1

Date: October 8, 1968
Sheet 1 of 2

B. O. R. Project No. 44-00044

Project Description: Reconstruction of Silver Lake Dam

Owner's Name: State of Vermont, Water Resources Department

Contractor's Name: Lowell Engineering Company

Contractor's Address: 185 Princeton Boulevard, Lowell, Massachusetts

General:

Reference is made to the contract between Lowell Engineering Company and the State of Vermont Department of Water Resources to Reconstruct Silver Lake Dam, in the Town of Barnard, Vermont. Said contract executed on the 20th of August, 1968.

The following modifications in the work are hereby made in accordance with the provisions of said contract.

Description of Extra Work:

The concrete walls and footings shall be constructed as shown on attached Sheet 3A of 4, titled "Vermont Department of Water Resources, Silver Lake Dam, Miscellaneous Details, Extra Work Order No. 1," DuBois & King Drawing No. 1052, dated October, 1968.

Item 4, as shown on Page 2-2 of the Contract Proposal is hereby deleted.

The estimated quantity for Item 3 is hereby changed to read 70 C. Y.

Payment for all extra work as shown on DuBois & King Drawing No. 1052 hereinbefore referred to shall be under Item 18, "Miscellaneous Extra Work - Extra Work Order No. 1" The Unit for payment shall be Lump Sum.

The Lump Sum price for Item 18 shall constitute full compensation for all labor, materials, and equipment involved in furnishing and placing additional forms, additional demolition and disposal of top of old structure, drilling and grouting dowels and cutting keys in old concrete all as shown on the contract drawings and as specified in the Contract Documents.

Extra Work
Order No. 1

Date: October 8, 1968
Sheet 2 of 2

The Lump Sum price for Item 18 shall be $950.00.

All Class A reinforced concrete shall be paid for under Item 3.

This Extra Work Order decreases the total cost of the contract by $1,250.00.

The time for completion of the hereinbefore mentioned contract is not changed by this Extra Work Order.

All other items and conditions of said contract as it heretobefore may have been modified shall be and remain the same.

Such performance guarantee as was required to secure said contract hereby modified shall guarantee and secure the work or change herein provided for, to the same extent and in the same manner as the work provided for under said contract as modified.

Performance Bond and Labor and Materials Bond may be decreased, at the Contractor's option, to the full amount of the contract as modified. Said amount being $30,500.00. Copies of said Bond shall be sent to the Owner and the Engineer.

The above mentioned changes and additions to the contract are being recommended because the condition of the structure and the configuration of existing footings are not as assumed during the design of the project.

ACCEPTED BY: Lowell Engineering Company
William J. Kelly
Contractor
DATE: 10-11-68

RECOMMENDED BY: Richard R. DuBois
DuBois & King, Engineer
DATE: 10/9/68

APPROVED BY: R. W. Thieme
Vermont Department of
Water Resources
DATE: 10-21-68

CERTIFICATE OF INSURANCE

Albert J. Tonry & Co., Inc.

BONDING AND INSURANCE

ESTABLISHED 1926

AREA CODE 617 267-5400

4345 PRUDENTIAL TOWER
BOSTON, MASSACHUSETTS 02199

THIS IS TO CERTIFY THAT THE FOLLOWING INSURANCE IS IN EFFECT AS OF THIS DATE:

NAME OF INSURED: Lowell Engineering Co., Inc.
ADDRESS OF INSURED: 165 Princeton Blvd., Lowell, Massachusetts
LOCATIONS COVERED: Barnard, Vermont
DESCRIPTION OF WORK: Reconstruction and repairs to Silver Lake Dam

ISSUED AT THE REQUEST OF:

State of Vermont
Dept. of Water Resources
Montpelier, Vermont

Maryland Casualty Company
(INSURANCE COMPANY)

TYPE OF INSURANCE	POLICY NUMBER	EXPIRATION DATE	LIMITS OF LIABILITY
WORKMEN'S COMPENSATION	01-903816	4/1/69	Statutory
COMPREHENSIVE GENERAL LIABILITY — BODILY INJURY *	31-307027	4/1/69	$ 100,000 EACH PERSON / $ 300,000 EACH OCCURENCE
COMPREHENSIVE GENERAL LIABILITY — PROPERTY DAMAGE *	31-307027	4/1/69	$ 100,000 EACH PERSON / $ 300,000 EACH ACCIDENT
AUTOMOBILE BODILY INJURY LIABILITY	16-754761	1/1/69	$ 100,000 EACH ACCIDENT / $ 300,000
AUTOMOBILE PROPERTY DAMAGE LIABILITY	16-754761	1/1/69	$ 100,000 EACH PERSON / $ EACH OCCURENCE
OWNER'S OR CONTRACTOR'S PROTECTIVE BODILY INJURY LIABILITY			$ EACH OCCURENCE / $ AGGREGATE
OWNER'S OR CONTRACTOR'S PROTECTIVE PROPERTY DAMAGE LIABILITY			$ EACH PERSON / $ EACH OCCURENCE
MANUFACTURER'S OR CONTRACTOR'S BODILY INJURY LIABILITY			$ EACH OCCURENCE / $ AGGREGATE
MANUFACTURER'S OR CONTRACTOR'S PROPERTY DAMAGE LIABILITY			

SPECIAL PROVISIONS

Insurance in accordance with Contract Page 4.7 Insurance

* Includes Contractual Liability

IN THE EVENT OF CANCELLATION OF THE INSURANCE THE COMPANY AGREES, IF POSSIBLE, TO GIVE NOTICE TO THE PARTY AT WHOSE REQUEST THIS CERTIFICATE IS ISSUED 15 DAYS BEFORE THE DATE OF CANCELLATION, BUT SHALL NOT BE LIABLE IN ANY WAY FOR FAILURE TO GIVE SUCH NOTICE.

DATED THIS 13th DAY OF August, 1968

BY Jane M. Cox
AUTHORIZED REPRESENTATIVE

CERTIFICATE OF INSURANCE

Albert J. Tonry & Co., Inc.

BONDING AND INSURANCE

4345 PRUDENTIAL TOWER
BOSTON, MASSACHUSETTS 02199
AREA CODE 617 267-5400

"For Bonds, call Tonry"

EXHIBIT
NO. 1
APR 4 1968
PROCEEDINGS
WATER RESOURCES BOARD

State of Vermont
Department of Water Resources

NOTICE OF HEARING

SILVER LAKE

in the

Town of Barnard

* *

You are hereby notified that the Vermont Water Resources Board will hold a Public Hearing in the Town Hall, in the Village of Barnard, Vermont at 2:00 P. M., Eastern Standard Time, April 4, 1968,

> to make and promulgate rules and regulations governing surface water level of the water of Silver Lake pursuant with the authority granted to such Board by 10 V.S.A., Section 575,

and you are further notified that the Vermont Water Resources Board will hold a Public Hearing at the same location immediately following said hearing announced above

> to consider the application of the Vermont Department of Water Resources to construct an earth fill and concrete dam at the outlet of Silver Lake in the Town of Barnard.

Any person wishing to be heard regarding this application is hereby requested to be present and express his views.

Please bring this notice to the attention of all persons known by you to be interested in this matter.

Dated at Montpelier, Vermont, this 19th day of March, 1968.

By Order of the Vermont Water Resources Board

By: Reinhold W. Thieme
Commissioner of Water Resources

* *

PUBLIC HEARING:

PLACE: Town Hall in the Village of Barnard, Vermont

TIME: April 4, 1968, 2:00 P. M.,
Eastern Standard Time

SPECIFIC MAILING LIST

Silver Lake - Barnard

Mrs. Hazel R. Davis
Town Clerk
Town of Barnard
Barnard, Vermont 05031

Mr. Clyde C. Campbell
Selectman
Town of Barnard
Barnard, Vermont 05031

Mr. Carl S. Lewis
Selectman
Town of Barnard
R.F.D.
Woodstock, Vermont 05091

Mr. Leon R. Porter
Selectman
Town of Barnard
Bethel, Vermont 05032

Mr. Donald S. Arnold
Windsor County Senator
Bethel, Vermont 05032

Mr. Olin D. Gay
Windsor County Senator
198 Summer Street
Springfield, Vermont 05156

Mrs. Margaret B. Hammond
Windsor County Senator
R.F.D. #1
Chester Depot, Vermont 05144

Mr. John T. Alden, Representative
Legislative District No. 24
West Woodstock, Vermont 05087

Mr. L. Dudley Leavitt, Representative
Legislative District No. 24
South Royalton, Vermont 05068

Harry & Naomi Hull
Barnard
Vermont 05031

Barnard General Store
Barnard
Vermont 05031

Mrs. Elizabeth Salvo
Post Office Box
White River Junction, Vermont 05001

Gula V. Hirshland
Harrison
New York 10528

Mr. & Mrs. Forrest Aikens
Bethel
Vermont 05032

Natalie Patrick
Bethel
Vermont 05032

Donald & Theda Hartlen
Barnard
Vermont 05031

Robert & Hazel Billings
1205 Carr Road
Wilmington, Delaware 19809

Charlotte Sarnoff
2505 Hamden Lane
Bethesda, Maryland 20014

A. Meyer Kulp
1411 Sandy Hill Road
Norristown, Pennsylvania 19401

Rilma Buckman
Apartment #6
2642 North Moreland Boulevard
Cleveland, Ohio 44120

Jacob & Silvia Bradkin
101 Roberts Street
Valley Stream
Long Island, New York 11580

Gladys Bundy
Bethel
Vermont 05032

Mr. & Mrs. Harold Wilson
Bethel
Vermont 05032

Mary R. Lange
29 Taconic Parkway
Greenwich, Connecticut 06830

[illegible] C. & Miriam Sellars
72 [illegible] Street
Newton, Connecticut 06470

Edward & Helen Maynes
26 South Street
Woodstock, Vermont 05091

Mr. John Doten, Jr.
Woodstock
Vermont 05091

Mr. Fred Doten
Woodstock
Vermont 05091

Joan Staples
Woodstock
Vermont 05091

Florence Hickey
300 South Broadway
Tarrytown, New York 10591

Caroline Camp
Woodstock
Vermont 05091

Joseph & Barbara Cancellieri
64 Oxford Road
Newton Centre, Massachusetts 02159

Theodore & Elinor Clifford
Bethel
Vermont 05032

Mr. & Mrs. Armand Martin
16 South Street
Woodstock, Vermont 05091

Mr. Alfred Gibbs
2 Maplewood Terrace
White River Junction, Vermont 05001

Mandy Lee Morse
2 Maplewood Terrace
White River Junction, Vermont 05001

Mr. Donald E. Gordon
340 West South Street
Carlisle, Pennsylvania 17013

Alice Gould
Woodstock
Vermont 05091

Sara Maynes
Woodstock
Vermont 05091

Richard & Marine Lawrence
Hartford
Vermont 05047

Dorothy Landis
South Royalton
Vermont 05068

Mary Mitiquy
South Royalton
Vermont 05068

George & Evelyn Woodward
[illegible] Cascadnac Avenue
White River Junction, Vermont 05001

Ralph & Evelyn Woodruff
[illegible] Chester Road
Springfield, Vermont 05156

Walter & Marjorie Bassett
West Woodstock
Vermont 05087

Wendell & Iva MacCarty
Barnard
Vermont 05031

Richard & Mary Sterling
[illegible] River Street
Woodstock, Vermont 05091

Arthur & Winona M. Paul
Woodstock
Vermont 05091

Eugene & Nancy Roy
Woodstock
Vermont 05091

Mr. Robert Martin
Wilder
Vermont 05088

January, 1968

DEPARTMENT OF WATER RESOURCES

GENERAL MAILING LIST

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Governor

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Lieutenant Governor
61 Pleasant Street
Rutland, Vermont 05701

Mr. James L. Oakes
Attorney General

Mr. Jay H. Gordon
Auditor of Accounts

Mr. Harry H. Cooley
Secretary of State

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38 State Street
Montpelier, Vermont

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Vermont Water Resources Board
Edson Hill Road
Stowe, Vermont 05672

Mr. Walton S. Elliott, Member
Vermont Water Resources Board
Box 111
Waitsfield, Vermont 05673

Dr. Robert B. Aiken, Commissioner
Vermont Department of Health
115 Colchester Avenue
Burlington, Vermont 05401

Mr. Edward L. Tracy, Chief
Bureau of Environmental Sanitation
Vermont Department of Health
115 Colchester Avenue
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41 Lincoln Street
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64 Brewer Parkway
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Barre, Vermont 05641

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146 Summit Street
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Poultney, Vermont 05764

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~~Federal Aid Coordinator~~
~~Department of Fish and Game~~

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Vermont Fish and Game Board
Post Office Box 45
Mount Holly, Vermont 05758

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South Londonderry, Vermont 05155

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Vermont Fish and Game Board
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Montpelier, Vermont

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East Fairfield, Vermont 05435

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Vermont Fish and Game Board
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Vermont Fish and Game Board
Tunbridge, Vermont 05077

Mr. Donald H. McNally, Member
Vermont Fish and Game Board
Main Street
Derby, Vermont 05829

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Department of Agriculture

Mr. Lauritz F. Larsen, Commissioner
Department of Highways

Mr. Emerson Baker, Mapping Engineer
Planning Division
Department of Highways

Mr. Frank Linton
Department of Highways

Mr. Robert B. Williams, Commissioner
Department of Forests and Parks

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Vermont Board of Forests and Parks
St. Albans, Vermont 05478

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Vermont Board of Forests and Parks
75 Colby Street
Barre, Vermont 05641

Mr. Michael DeBonis, Member
Vermont Board of Forests and Parks
Poultney, Vermont 05764

[redacted]
Director
Vermont Board of Recreation

Mr. James Antell, Member
Vermont Recreation Board
Austin Drive
Burlington, Vermont 05401

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Vermont Recreation Board
Costa Lane
St. Johnsbury, Vermont 05863

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Vermont Recreation Board
Superintendent of Recreation
Lawrence Community Center
Rutland, Vermont 05701

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Vermont Development Department

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Vermont Development Board
119 Harrison Avenue
Bennington, Vermont 05201

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Vermont Development Board
Sherburne Corporation
Killington, Vermont 05751

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Vermont Development Board
North Troy, Vermont 05859

Mr. Richard Wadhams, Member
Vermont Development Board
178 South Prospect Street
Burlington, Vermont 05401

Miss Margaret A. Hartigan, Member
Vermont Development Board
Manager, Vermont Transit Travel Bureau
137 St. Paul Street
Burlington, Vermont 05401

Mr. Edward Knapp, Commissioner
Vermont Aeronautics Board

Mr. Ernest W. Gibson III, Commissioner
Department of Public Service

Mr. James M. Cosgrove, Member
Vermont Public Service Board
119 Main Street
St. Johnsbury, Vermont 05863

Mr. Lawrence J. Handy, Member
Vermont Public Service Board
Swanton, Vermont 05488

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Department of Administration

Mr. John J. Wackerman, Commissioner
Department of Social Welfare

Mr. Louis Levin, Commissioner
Department of Industry and Labor

Buildings Division
State Administration Building

Mr. Leonard Wilson, Director
Central Planning Office

Mr. Forrest Orr, Executive Director
Interagency Committee on Natural Resources

Mr. Silas Carpenter
Public Service Board

NEWS SERVICE AND PRESS

Vermont Press Bureau
State House

Associated Press
State House

United Press
State House

Free Press Capitol Bureau
State House
Attn: Mavis Doyle

BENNINGTON BANNER
Bennington, Vermont 05201

BRATTLEBORO DAILY REFORMER
Brattleboro, Vermont 05301

BURLINGTON FREE PRESS
Editorial Department
State Desk
Burlington, Vermont 05401

BURLINGTON FREE PRESS
Managing Editor's Desk
Burlington, Vermont 05401

CONNECTICUT VALLEY TIMES REPORTER
Vermont Times Reporter, Inc.
18 Bridge Street
Bellows Falls, Vermont 05101

Mr. G. E. McLaughlin
Vermont Edition, DAILY EAGLE
2 Summer Hill
Springfield, Vermont 05156

NEWPORT EXPRESS
Newport, Vermont 05855

RUTLAND DAILY HERALD
Rutland, Vermont 05701

ST. ALBANS DAILY MESSENGER
St. Albans, Vermont 05478

THE CALEDONIAN-RECORD
St. Johnsbury, Vermont 05863

THE TIMES-ARGUS
34 North Main Street
Barre, Vermont

Mr. Percy Angwin
THE TIMES-ARGUS
Barre, Vermont

THE TIMES-REPORTER
23 Main Street
Springfield, Vermont 05156

VALLEY NEWS
West Lebanon, New Hampshire

Mr. John Lofton
VERMONT SUNDAY NEWS
Burlington, Vermont 05401

* See note at end
** See note at end

RADIO AND TV STATIONS

Radio Station WSKI
Montpelier, Vermont
Attn: Robert Bannon

Radio Station WDEV
Waterbury, Vermont 05676

Radio Station WTSA
Brattleboro, Vermont 05301

Radio Station WIBN
Bennington, Vermont 05201

Radio Station WVMT
Burlington, Vermont 05401

Radio Station WJOY
Burlington, Vermont 05401

Radio [illegible] WSNO
Barre, [illegible]

Radio Station WKVT
Brattleboro, Vermont 05301

Radio Station WDOT
Burlington, Vermont 05401

Radio Station WNHB
White River Junction, Vermont 05001

Radio Station [illegible]
Rutland, Vermont 05701

Radio Station WHWB
Rutland, Vermont 05701

Radio Station WWSR
St. Albans, Vermont 05478

Radio Station WSJN
St. Johnsbury, Vermont 05819

Radio Station WIKE
Newport, Vermont 05855

Radio Station WCFR
Springfield, Vermont 05156

WCAX-TV
Burlington, Vermont 05401
Attn: Stuart Martin, Manager

WCAX-TV News Correspondent
State House (During Legislature)
Attn: Norm James

WDEV News Correspondent
State House (During Legislature)

INTERSTATE COMMISSIONS

Mr. Alfred E. Peloquin
Executive Secretary
New England Interstate Water
Pollution Control Commission
73 Tremont Street
Boston, Massachusetts 02108

Mr. Herbert Polidor, Member
New England Interstate Water
Pollution Control Commission
27 Orchard Street
Springfield, Vermont 05156

Mr. Ralph Lehman
New England Interstate Water
Pollution Control Commission
One Nutt Lane
White River Junction, Vermont 05001

CLUBS AND ORGANIZATIONS

Mr. John P. Tobey, Secretary
Vermont Federation of Sportsmens Clubs
31 Brainerd Street
St. Albans, Vermont 05478

12 Mr. John H. Boylan, Chairman
Pollution Control Commission
Vermont Federation of Sportsmens Clubs
Island Pond, Vermont 05846

Mr. E. Warner Shedd, Jr., President
Vermont Federation of Sportsmens Clubs
East Calais, Vermont 05650

Mr. James R. Mereness
Executive Vice President
Associated Industries of Vermont
Montpelier, Vermont

Mr. Royal B. Cutts, Master
Vermont State Grange
Townshend, Vermont 05353

Mr. Keith Wallace, President
Vermont State Farm Bureau
101 State Street
Montpelier, Vermont

Mr. Fred Ferguson, President
Springfield Rod and Gun Club
65 Merrill Street
Springfield, Vermont 05156

Mr. Donald Rowen, Executive Secretary
Greater Vermont Association
Langdon Street
Montpelier, Vermont

Mrs. Edwin Gittleman
Hanover-Norwich League of Women Voters
Box 249
Norwich, Vermont 05055

Mrs. George P. Williamson
Chairman, Natural Resources
League of Women Voters of Vermont
Woodstock, Vermont 05091

Mr. Joseph G. Davidson, President
Connecticut River Watershed Council
Manchester, Vermont 05254

Mr. Elwyn R. Foster, Executive Director
Connecticut River Watershed Council
407 Main Street
Greenfield, Massachusetts 01301

Mr. Robert Davison
Extension Service
Morrill Hall
University of Vermont
Burlington, Vermont 05401

Vermont Natural Resources Council
Mr. Richard M. Brett, President
Woodstock, Vermont 05091

Mr. Justin Brande
Vermont Natural Resources Council
R.F.D. #1
Middlebury, Vermont 05753

FEDERAL AGENCIES

Mr. Lester M. Klashman
Regional Program Director
U. S. Department of the Interior
Federal Water Pollution Control Administration
John F. Kennedy Federal Office Building
Boston, Massachusetts 02203

Mr. Merrill S. Hohman, Chief
Planning and Evaluation Section
U. S. Department of the Interior
Federal Water Pollution Control Administration
Matuchen, New Jersey 08840

U. S. Army Corps of Engineers
424 Trapelo Road
Waltham, Massachusetts 02154

Mr. Robert D. Deemer
Lands and Recreation Assistant
U. S. Department of Agriculture
Forest Service Supervisors Office
22 Evelyn Street
Rutland, Vermont 05701

INTERESTED PARTIES

Mr. Harold Blaisdell
Pittsford, Vermont 05763

Mr. Francis Leach
Pawlet, Vermont 05761

Mr. Joseph C. Lawler
Camp, Dresser & McKee
One Center Plaza
Boston, Massachusetts 02108

Mr. Perry H. Bascom
Chester Depot, Vermont 05144

Mr. Vincent F. Callahan, Jr.
Callahan Publications
Post Office Box 3751
Washington, D. C.

DuBois and King
Consulting Engineers
30 South Main Street
Randolph, Vermont 05060

Webster-Martin, Inc.
1025 Airport Drive
South Burlington, Vermont 05401

Dufresne-Henry Engineering Corporation
Precision Park
North Springfield, Vermont 05150

Mr. Russell B. Butler
Managing Director
Brattleboro Area Chamber of Commerce
180 Main Street
Brattleboro, Vermont 05301

Mr. Arnold J. Drapeau
Division des Laboratoires
Ministere de la Sante
1570 St. Hubert
Montreal, Quebec
CANADA

Mr. Floyd W. Moore
Chairman of the Board
Vermont Structural Steel Corporation
Post Office Box 610
Burlington, Vermont 05401

Mr. John E. Austin
Food and Milk Inspector
City of Fitchburg Health Department
Division of Laboratories & Consumer Protection
Room 17
City Hall
Fitchburg, Massachusetts

Dr. Frederic O. Sargent, Chairman
Department of Agricultural Economics
University of Vermont
Morrill Hall
Burlington, Vermont 05401

Mr. Peter M. Miller, Editor
VERMONT REAL ESTATE
Route 100
Waterbury, Vermont 05676

Mr. Robert L. Yasi, Commissioner
Department of Natural Resources
100 Cambridge Street
Boston, Massachusetts 02202

Mr. Thomas McMahon, Director
Water Pollution Control
Department of Natural Resources
100 Cambridge Street
Boston, Massachusetts 02202

Mr. Dwight F. Metzler
Deputy Commissioner for Pure Water
State Department of Health
Holland Avenue
Albany, New York 12208

Mr. William A. Healy
Executive Director
Water Pollution Control
61 South Spring Street
Concord, New Hampshire 03301

Mr. John Carnahan
7 Tyler Street
Brattleboro, Vermont 05301

Mr. Neal Beattie
R.F.D. #2
Lancaster, New Hampshire

Mr. Stanley E. Degler
BNA Publications
1231 25th Street, N.W.
Washington, D. C. 20037

Mr. M. A. Kohudic, President
Technomic Publishing Company
750 Summer Street
Stamford, Connecticut 06902

LEGISLATIVE COMMITTEES

Mr. Arthur Gibb, Chairman
House Committee on Natural Resources
R.F.D. #1
Box 42
Middlebury, Vermont 05753

Senator Daniel B. Ruggles III, Chairman
Senate Conservation & Development Committee
2 Summer Street
Montpelier, Vermont

* Newspaper - Add weekly newspapers to Specific Mailing List for items of interest to reading area.

** Add the following newspapers to this list for material pertaining to southern Vermont:

NORTH ADAMS TRANSCRIPT
27 Bank Street
North Adams, Massachusetts

RECORDER-GAZETTE
397 Main Street
Greenfield, Massachusetts

SPRINGFIELD UNION
Attn: Mr. John Hitchcock
32 Cypress Street
Springfield, Massachusetts

ADDITIONS

Mr. Paul [redacted], P. E.
Chemical [redacted]
Environmental [redacted] Engineering Division
Gilbert Associates, Inc.
Post Office Box 1498
525 Lancaster Avenue
Reading, Pennsylvania [redacted]

Mr. Wesley Guyette Sr.
57 Beckley Street
Barre, Vt. 05641

Mr. Arthur T. Maxwell
Lyndonville, Vt. 05846

Mr. [redacted]
Morgan Ctr, Vt. 05854

Mr. Robert Collins
Montpelier, Vt. 05651

Mrs. Gail Guyette
419 Merrill St.
Barre, Vt. 05641

MR. STUART C. PETERSON, Chief
CONSTRUCTION GRANTS ACTIVITIES
U.S. DEPT OF INTERIOR
Fed. W.P.C.A.
Regional Office I
JFK Fed. Office Bldg.
Boston, Mass. 02203

State of Vermont
Department of Water Resources

N O T I C E O F H E A R I N G

SILVER LAKE

in the

Town of Barnard

* *

You are hereby notified that the Vermont Water Resources Board will hold a Public Hearing in the Town Hall, in the Village of Barnard, Vermont at 2:00 P. M., Eastern Standard Time, April 4, 1968,

> to make and promulgate rules and regulations governing surface water level of the water of Silver Lake pursuant with the authority granted to such Board by 10 V.S.A., Section 575,

and you are further notified that the Vermont Water Resources Board will hold a Public Hearing at the same location immediately following said hearing announced above

> to consider the application of the Vermont Department of Water Resources to construct an earth fill and concrete dam at the outlet of Silver Lake in the Town of Barnard.

Any person wishing to be heard regarding this application is hereby requested to be present and express his views.

Please bring this notice to the attention of all persons known by you to be interested in this matter.

Dated at Montpelier, Vermont, this 19th day of March, 1968.

By Order of the Vermont Water Resources Board

By: Reinhold W. Thieme
Commissioner of Water Resources

* *

PUBLIC HEARING:

PLACE: Town Hall in the Village of Barnard, Vermont

TIME: April 4, 1968, 2:00 P. M.,
Eastern Standard Time

MRS. LEE C. HICKEY
300 SOUTH BROADWAY
TARRYTOWN, NEW YORK 10591

EXHIBIT
NO. 4
APR 4 1968
PROCEEDINGS
WATER RESOURCES BOARD

EXHIBIT
NO. ____
APR 4 1968
PROCEEDINGS
WATER RESOURCES BOARD

April 1, 1968

Mr. Charles J. Bacon
Water Resources Project Engineer
State of Vermont
Montpelier, Vermont 05602

Dear Mr. Bacon:

Thank you for your helpful explanation of the proposed project at Silver Lake.

This will be an excellent project, it would seem, and particularly with respect to our cottage. I have not measured the depth of the water at our concrete wall, but I believe that lowering the water one and one-half feet in the fall will virtually eliminate pressure on the wall from the ice.

Sincerely yours,

Florence A. Hickey

Florence A. Hickey

ROUTING
GENERAL
TO | NOTED | DATE
CJB | CJB | 4/3
SUSPEND TO
FILE

RECEIVED
APR 3
Dept. of Water Resources

RWF
EC for
C.B. 3/29

1205 Carr Road
Wilmington, Delaware 19809

March 26, 1968

Department of Water Resources
Montpelier Vermont 05602

Attn: Commissioner Reinhold W Thieme

EXHIBIT
No. 5
APR 7 1968
PROCEEDING
WATER RESOURCES BOARD

Dear Sir,

With respect to the notice of hearing — Silver Lake in Barnard Vermont — dated March 19, 1968, we will be unable to attend the hearing but wish to express our views concerning the maintenance of Silver Lake. Owning a cottage (the third property from the dam end of the lake — white cottage next beyond the brown bathhouse) close to the lake shore in the narrow part of the lake our chief concern is shore erosion which has been severe in the past two years. Any rules and regulations that would lead to stabilizing the water level in the lake and to minimizing the high speed motor boat traffic in

the proximity of these cottages would be of great benefit to the property owners.

Secondarily, if there are plans made for emptying the lake to repair or replace the dam, we would appreciate as much advance warning as practical of the date since this would present the only opportunity for repairs to the shore line such as the construction of a retaining wall.

Thanking you for notice of the hearing and the opportunity to express our views

Yours truly

Robert T Billings

RECEIVED
MAR 29 1988
Dept. of Water Resources

EXHIBIT NO. [illegible]
APR 4 1968
PROCEEDING
WATER RESOURCES BOARD

EXHIBIT NO.
APR 4 1968
PROCEEDING
WATER RESOURCES BOARD

ROUTING

GENERAL

TO	NOTED	DATE
CJB	C/S	3/28
JEC	JEC	3/28
RWT	[illegible]	[illegible]

SUSPEND TO

FILE

March 28, 1968

Mrs. Lee C. Hickey
300 South Broadway
Tarrytown, New York 10591

Dear Mrs. Hickey:

With reference to your letter of March 21, 1968, it is not the intent of this Department to either raise or lower the water levels permanently at Silver Lake, any significant amount. The actual rules and regulations pertaining to these water levels will be made by the Vermont Water Resources Board after the public hearing in accordance with Vermont statutes. The procedures followed by the Water Resources Board provide several opportunities for individuals or organizations to voice objections to any rulings made pertaining to either water levels or the construction of dams.

After the public hearing, the Board will issue a Findings of Fact, which summarizes the pertinent information brought out at the hearing and on which the Board will base their order.

The Board will then wait 15 days to hear any objections to the Findings, at which time they will issue an Order which specifies rules and regulations governing surface water levels or the construction of dams.

If no objections to this Order are received for a period of 30 days, the Order will then become law.

The purpose of the proposed project at Silver Lake is to reconstruct the outlet structure to return it to a safe, aesthetic, and relatively maintenance-free condition and to increase the discharge capacity of the structure to decrease the fluctuations in surface water levels and decrease the possibility of flood damage.

In connection with this, we are recommending a controlled surface water level, from the time the ice goes out of the lake in the spring until the 15th of October, of 1307.5 feet above sea level and 1306.0 feet above sea level for the remainder of the year.

[illegible] recommended summer level is approximately the same level which was maintained during the summer last year. The lower winter level should decrease the amount of ice damage to docks and other structures around the pond and decrease the damage caused during spring runoff.

If you have any further questions on this matter, please feel free to contact this office.

Very truly yours,

Charles J. Bacon
Water Resources Project Engineer

[illegible]/bp

MRS. LEE C. HICKEY
300 SOUTH BROADWAY
TARRYTOWN, NEW YORK 10591

March 21, 1968

Mr. Reinhold W. Thieme
Commissioner of Water Resources
Montpelier, Vermont

Dear Mr. Thieme:

Am in receipt of your notice regarding the hearing in the Town Hall, Barnard, on April ninth.

It is not possible for me to attend the hearing, but I am concerned about the possibility of a permanent raising or lowering of the Silver Lake water level.

The entire front of our cottage rests on a concrete wall which is in the water. To raise or lower the water level permanently would be ruinous to this fine old late Victorian cottage.

Would appreciate being advised as to this situation as far in advance of the meeting as possible. If you think you should discuss this matter rather than write, please call my husband collect (914-631-2325).

Sincerely yours,

Florence A. Hickey

Florence A. Hickey

please [illegible]

ROUTING

GENERAL		
TO	NOTED	DATE
JEC -	JEC	3-25
RWT -		
C.B.	CJB	3/28
DWW	DWW	3/28

SUSPENS TO FILE

June 11, 1968

Mr. Harry H. Cooley
Secretary of State
State House
Montpelier, Vermont

Dear Mr. Cooley:

Enclosed herewith for your records are the following documents issued by the Vermont Water Resources Board on June 7, 1968:

Rules and Regulations - Establishment of Surface Water Levels at Silver Lake in the Town of Barnard.

Order Approving and Authorizing the Construction of a Dam - Application of the Vermont Department of Water Resources to reconstruct a concrete and earth fill dam at the outlet of Silver Lake in the Town of Barnard.

Order Approving and Authorizing the Construction of a Dam - Application of William Schiff to construct an earth fill dam on Coy Brook in the Town of Wells.

Sincerely yours,

Robert W. Carr

Robert W. Carr
Business Manager

bp

Encs.

ROUTING

GENERAL TO	NOTED	DATE
RWC		
JEC		
dww	Chron	6/12
AJK		6-12

SUSPEND TO

FILE Silver Lake Rules & Regulations

June 11, 1968

Mr. James L. Oakes
Attorney General
State Library Building
Montpelier, Vermont

Dear Mr. Oakes:

Enclosed herewith for your information and records is a copy of the following documents issued on June 7, 1968, by the Vermont Water Resources Board:

Rules and Regulations - Establishment of Surface Water Levels at Silver Lake in the Town of Barnard.

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Order Approving and Authorizing the Construction of a Dam - Application of William Schiff to construct an earth fill dam on Coy Brook in the Town of Hale.

Sincerely yours,

Robert H. Carr
Business Manager

by

Encs.

June 11, 1968

Mrs. Hazel R. Davis
Town Clerk
Town of Barnard
Barnard, Vermont 05031

Dear Mrs. Davis:

Enclosed herewith for filing only, is a copy of the Order Approving and Authorizing the Construction of a Dam on application of the Vermont Department of Water Resources to reconstruct a concrete and earth fill dam at the outlet of Silver Lake in the Town of Barnard; and a copy of the Rules and Regulations on Establishment of Surface Water Levels at Silver Lake in the Town of Barnard, as issued on June 7, 1968, by the Vermont Water Resources Board.

Sincerely yours,

Robert W. Carr
Business Manager

bp

Encs.

June 11, 1968

Mr. Rodney A. Barber
Director of Parks
State of Vermont
Department of Forests and Parks
Montpelier, Vermont

Dear Mr. Barber:

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Sincerely yours,

Robert W. Carr
Business Manager

bp

Encs.

ROUTING

GENERAL

TO	NOTED	DATE
LWC	C	6/11/68
LEC		6/11
CWW	Hows	6-12
AJR	AJR	6-12

SUSPENSE TO:

FILE Silver Lake ORDER

June 11, 1968

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Montpelier, Vermont

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Business Manager

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Robert W. Carr
Business Manager

bp

Encs.

May 3, 1968

ROUTING		
GENERAL		
TO	NOTED	DATE
RWC	C	5/3
JEC	JEC	5/3
DWW	DWW	5/3
SUSPEND TO		
FILE		

Mr. Harry H. Cooley
Secretary of State
State House
Montpelier, Vermont

Dear Mr. Cooley:

Enclosed herewith for your records are the following documents:

Preliminary Findings of Fact - Reconstruction of a concrete and earth fill dam at the outlet of Silver Lake in the Town of Barnard; issued by the Vermont Water Resources Board on May 1, 1968.

Preliminary Findings of Fact - Establishment of surface water levels at Silver Lake in the Town of Barnard; as issued by the Vermont Water Resources Board on May 1, 1968.

Sincerely,

Robert W. Carr
Business Manager

bp

Encs.

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Sincerely,

Robert W. Carr
Business Manager

bp

Enc.

May 3, 19[illegible]

Mrs. [illegible]el R. Davis
Town Clerk
Town of Barnard
Barnard, Vermont 05031

Dear Mrs. Davis:

Enclosed herewith for [illegible]ing only, is a copy of the Preliminary Findings of Fact relative to the reconstruction of a concrete and earth fill dam at the outlet of Silver Lake in the Town of Barnard; and a copy of the Preliminary Findings of Fact relative to the establishment of surface water levels at Silver Lake in the Town of Barnard, as issued by the Vermont Water Resources Board on May 1, 1968.

Sincerely,

Robert W. Carr
Business Manager

bp

Encs.

May 3, 1968

Mr. Richard DuBois
DuBois and King
Consulting Engineers
30 South Main Street
Randolph, Vermont 05060

Dear Mr. DuBois:

Enclosed herewith for your information is a copy of the following documents:

Preliminary Findings of Fact - Reconstruction of a concrete and earth fill dam at the outlet of Silver Lake in the Town of Barnard, as issued by the Vermont Water Resources Board on May 1, 1968.

Preliminary Findings of Fact - Establishment of surface water levels at Silver Lake in the Town of Barnard, as issued by the Vermont Water Resources Board on May 1, 1968.

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Business Manager

bp

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Preliminary Findings of Fact -
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Sincerely,

Robert W. Carr
Business Manager

bp

Enc.

May 3, 1968

ROUTING		
GENERAL		
TO	NOTED	DATE
Rock	[illegible]	5/3
J&C	[illegible]	5/3
Durw	Durw	5/3
SUSPEND TO		
FILE		

Mr. [illegible] E. Cooley
Secretary of State
State House
Montpelier, Vermont

Dear Mr. Cooley:

Enclosed herewith for your records are the following documents:

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Robert W. Carr
Business Manager

bp

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Business Manager

bp

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Robert W. Carr
Business Manager

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Encs.

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Preliminary Findings of Fact -
Reestablishment of surface water levels at Silver Lake in the Town of Barnard, as issued by the Vermont Water Resources Board on May 1, 1968.

Sincerely,

Robert W. Carr
Business Manager

bp

Enc.

DuBOIS & KING · ENGINEERS · PLANNERS
ENGINEERING ASSOCIATES
RANDOLPH • VERMONT 05060
30 South Main Street • Area Code 802
Randolph: 728-3376 • Montpelier: 223-6316

PARTNERS
Richard E. DuBois, P.E.
Joseph S. King, P.E.
John D. Eppich, P.E.

Planning Associates
J. Cal Callahan, A.I.P.
David A. Coburn

Municipal Administration Associate
Theodore M. Nelson, M.P.A.

J 6741

July 2, 1970

Mr. John Cerutti
Department of Water Resources
State Office Building
Montpelier, Vermont

Dear Mr. Cerutti:

SUBJECT: Silver Lake Dam Inspection

On June 28, 1970, I inspected the Silver Lake Dam, constructed by the Lowell Engineering Company. At that time there appeared to be no deficiencies in the contractor's work and the structure was in good condition.

If you have not already done so, we recommend you release the two percent retainage on the contract.

Very truly yours,

DUBOIS & KING

Richard E. DuBois, P. E.

RED/dmw

done!

ROUTING
GENERAL

TO	NOTED	DATE
JEC		
HTR		7-6-70

SUSPEND TO
FILE

RECEIVED
JUL 6 1970
Dept. of Water Resources

State of Vermont

WATER RESOURCES BOARD

* *

ATTENDANCE RECORD

Public Hearing Silver Lake - Lake Level & Reconstruction of Dam

Place Barnard Town Hall Time 2:00 P.M. Date April 4, 1966

* *

Name	Address	Representing
William Ryan	Montpelier, Vt. 05602	Water Resources Bd.
Deming Miller	Stowe, Vt.	" "
Walter Elliot	Fayston, Vt.	" "
R. W. Thieme	Montpelier, Vt	Commissioner - Water Resources
John E. Cavutti	"	Dept. of Water Resources
Donald W. Webster	"	" " "
Charles J. Bacon	E. Granville, Vt.	" " "
Rodney Barber	Montpelier, Vt	Dept. of Forests & Parks
[illegible]	White River [illegible]	
Ada C. Martin	Woodstock, Vt.	owner of cottage on the Lake
[illegible]	Barnard, Vt.	
[illegible]	[illegible]	Member of Barnard Water Co.
R. B. Leaville	" "	
Frank Woodward	Resident of Barnard Vt	
Mrs Dean Woodward	R.R. 2 Vt	cottage owner
[illegible]	"	cottage owner
[illegible]	" "	" "
Ralph L Lenard	Barnard Vt.	Barnard Selectmen
[illegible]	[illegible]	Barnard Selectmen
[illegible]	[illegible]	Barnard Selectmen
[illegible]	[illegible]	[illegible]
[illegible]	So Pomfret Vt	
Carl E. Hayes	"	Woodstock Vt. Address
Frank Chase	Woodstock	Vt Highway Dept

ATTENDANCE RECORD

Public Hearing _____ Date _____

* *

~~I desire a copy of the findings and order in~~ (files)

Name	Address	Representing	
Hans Kurash	Barnard	self	
Richard E. Dubois	Randolph	Dubois & King Consulting Engr.	

DuBois & King inc.

ENGINEERING • PLANNING • DEVELOPMENT • MANAGEMENT

Box 339
Randolph, Vermont 05060-0339
(802) 728-3376
Telex No. 469141

CERTIFICATION OF FINAL COMPLETION OF WORK

PROJECT: Silver Lake Dam Reconstruction
File No. 29330

OWNER: State of Vermont
Agency of Environmental Conservation

DATE: September 7, 1984

Based upon periodic visits to the project site and general familiarity with the progress of the work, we declare that to the best of our knowledge, information, and belief, construction of the dam is in accordance with the intent of the design and in conformance with the plans and specifications.

Robert J. Wernecke, P.E.
Project Manager

DuBOIS & KING, INC.
Engineering & Environmental Services
RANDOLPH, VERMONT 05060

(802) 728-3376 & 728-3377

LETTER OF TRANSMITTAL

DATE	JOB NO.
Sept 7, 1984	29330
ATTENTION: Robert Finucane	
RE: Silver Lake Dam	

TO: Department of Water Resources
State Office Building
Montpelier, VT 05602

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☑ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	7/31/84	2	Sheets Reproducable Copy Record Drawings
1	7/31/84	2	sheets Blueline " "
1	11/10/93	1	Sheet Excavation topo & Base line data
1		3	Sheets Excavation sections
1	6/21/84	3	Sheets Final Sections
1	Aug 84		Revised O & M manual
1			Certificate of Completion

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☐ For ~~your~~ use ☐ Approved as noted ☐ Submit_____copies for distribution
☑ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO _____

SIGNED: Robert J. Wernecke

PRODUCT 240-3 NEBS Inc., Groton, Mass. 01471.

If enclosures are not as noted, kindly notify us at once.

DuBois & King, Inc.
Engineering & Environmental Services
RANDOLPH, VERMONT 05060

(802) 728-3376 & 728-3377

LETTER OF TRANSMITTAL

DATE	JOB NO.
Sept 7, 1984	29330
ATTENTION: A. Peter Barranco	
RE: Silver Lake Dam	

TO Department of Water Resources
State Office Building
Montpelier, VT 05602

WE ARE SENDING YOU ☑ Attached ☐ Under separate cover via _____ the following items:

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COPIES	DATE	NO.	DESCRIPTION
1	7/31/84	2	Sheets Record Drawings
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1		3	Sheets Excavation sections
1	Aug 1984		Revised O & M manual
1			Certificate of Completion

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☑ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO R. Finucane

SIGNED: Robert J Wernecke

...as noted, kindly notify...

9/10/84

TO: RF —
FROM: FJC
SUBJECT: SILVER LAKE FINALS

1. RECORD DRAWING — 1 COPY
   HOW MANY COPIES DID WE ASK FOR?
   DID WE ASK FOR REPRODUCIBLES
   APPEAR TO BE SAME AS 6/16/83
   SHOULD INCLUDE: SLUICE GATE Δ
   : OBSERVATION WELLS
   : etc.

2. BASE LINE DATA —
   WHERE ARE TIES

3. O & M MANUAL
   HOW MANY COPIES?
   COVER — D & K's NAME SHOULD BE OUT
   P. 1 - I DIDN'T THINK THE DUCTILE
   IRON PIPE WAS CEMENT LINED
   P. 2 - V THESE FIGURES AS TO ACCURACY
   P. 3. (3) REGULATING OUTLET IS D.I. NOT
   CONC.
   P. 9. NOTE 2 & 3?
   P. 10. IS THIS AS BUILT?
   P. 12. (1) DISTRIBUTION - ALSO FIRE DEPT,
   TOWN HALL, & PARC
   FLOOD INUNDATION MAP — WHOSE
   RESPONSIBILITY?

P. 53 – LOCAL DELEGATE – See Pete

A. – ASK PETE IF OTHER NAMES SHOULD BE ADDED.

B. – 2. – WHAT DEVICE?

LET PETE REVIEW THIS PACKAGE!

YOUR LETTER OF TRANSMITAL DOESN'T JIVE W/ WATER RESOURCES.

E.g. BLUE LINE?

SILVER LAKE DAM
BARNARD, VERMONT

OPERATION AND MAINTENANCE MANUAL
with
FLOOD WARNING AND EVACUATION PLAN

Prepared for
STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION
DEPARTMENT OF WATER RESOURCES AND
ENVIRONMENTAL ENGINEERING
AND
DEPARTMENT OF FORESTS, PARKS AND RECREATION

August 1984

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General	1
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Hydrology and Hydraulics.	3
Inspection Criteria	7
Annual Maintenance.	8
Flood Warning and Evacuation Plan	12

SILVER LAKE DAM

OPERATION AND MAINTENANCE MANUAL

General

The purpose of this manual is two-fold. First, it provides a guide for annual maintenance and inspection procedures and a record of the recently rehabilitated Silver Lake Dam. Secondly, this manual contains the flood warning and evacuation plan for this dam.

Project Description

Location

Silver Lake Dam is located on the North Road in the Village of Barnard.

Description of Dam

The dam consists of a concrete cut-off and facing walls constructed in 1968. These walls are placed against and doweled to existing concrete and masonry walls constructed as early as 1806. The concrete walls are supported by an earthen embankment with a granular filter layer and riprap on the downstream face. This embankment also serves as the foundation for a town highway, the North Road, running along the crest of the dam. The embankment was reconstructed in 1984.

During normal operating conditions, the lake level is controlled by use of stop planks at the outlet structure and flashboards on the emergency spillway. The emergency spillway consists of four (4) 36-inch corrugated metal pipes which discharge onto the downstream riprapped face. These spillway pipes are grouted into the concrete cutoff wall at the upstream face of the dam.

The outlet consists of one (1) 30-inch diameter cement-lined ductile iron pipe the upstream end of which is grouted into the wall of an intake structure that is part of the concrete cutoff wall. The outlet discharges onto the riprap on the downstream face of the dam. Flow into the intake structure is controlled by stop logs and a 24"x36" sluice gate.

As a safety precaution to assure structural stability, two observation wells have been installed for the purpose of monitoring water levels in the embankment.

Project Data Summary

Elevations (N.G.V.D.)

1.	Top of dam	1311.0
2.	Design high water level	1310.9
3.	Normal water level	
	a. summer	1307.5
	b. winter	1306.0

4. Spillway crest (pipe invert) 1306.0

5. Upstream invert 30-inch diameter outlet 1292.0

6. Streambed at toe of dam 1284 ±

7. Maximum tailwater 1290 ±

Storage (acre-feet)

1. Recreation pool 1410

2. Design high water level (500-yr flood) 1711

3. Top of dam 1720

Reservoir Surface (acres)

1. Normal water level 85

Dam

1. Type - Earthen embankment with an upstream concrete cut-off wall and culverts for the spillway section

2. Length - 110 feet ±

3. Height - 27 feet

4. Top width - 45 feet

5. Side slopes - upstream, vertical
   downstream, 2H:1V

6. Zoning - Riprap and granular filter layer on downstream face

Spillway

1. Type - Corrugated metal pipes

2. Number of pipes - 4

3. Diameter of pipes - 36"

4. Invert elevation - 1306.0

5. Gates - Stop planks to elevation 1307.5 (summer only)

6. Upstream channel - Silver Lake

7. Downstream channel - Pond Brook

Regulating Outlet

1. Invert - 1292.0

2. Size - 30-inch diameter

3. Description - Ductile Iron Pipe, cement-lined

4. Control mechanism - Stop log structure 6.5 feet from dam x 4.0 feet wide with an invert near 1298; - also a sluice gate 2.0 feet wide x 3.0 feet high with an invert at 1298.0.

Hydrology and Hydraulics

Drainage Area

The drainage area for Silver Lake is 1.8 square miles of forested hillsides surrounding the Lake. The drainage is from hills which rise approximately 520 feet above normal pond level. They are predominantly covered with soils described as from glacial till.

There are at least five streams that flow into Silver Lake; none has a drainage area larger than 0.5 square miles. The longest stream has a length of approximately 3/4 mile with a mean slope of 500 feet per mile.

Design Data

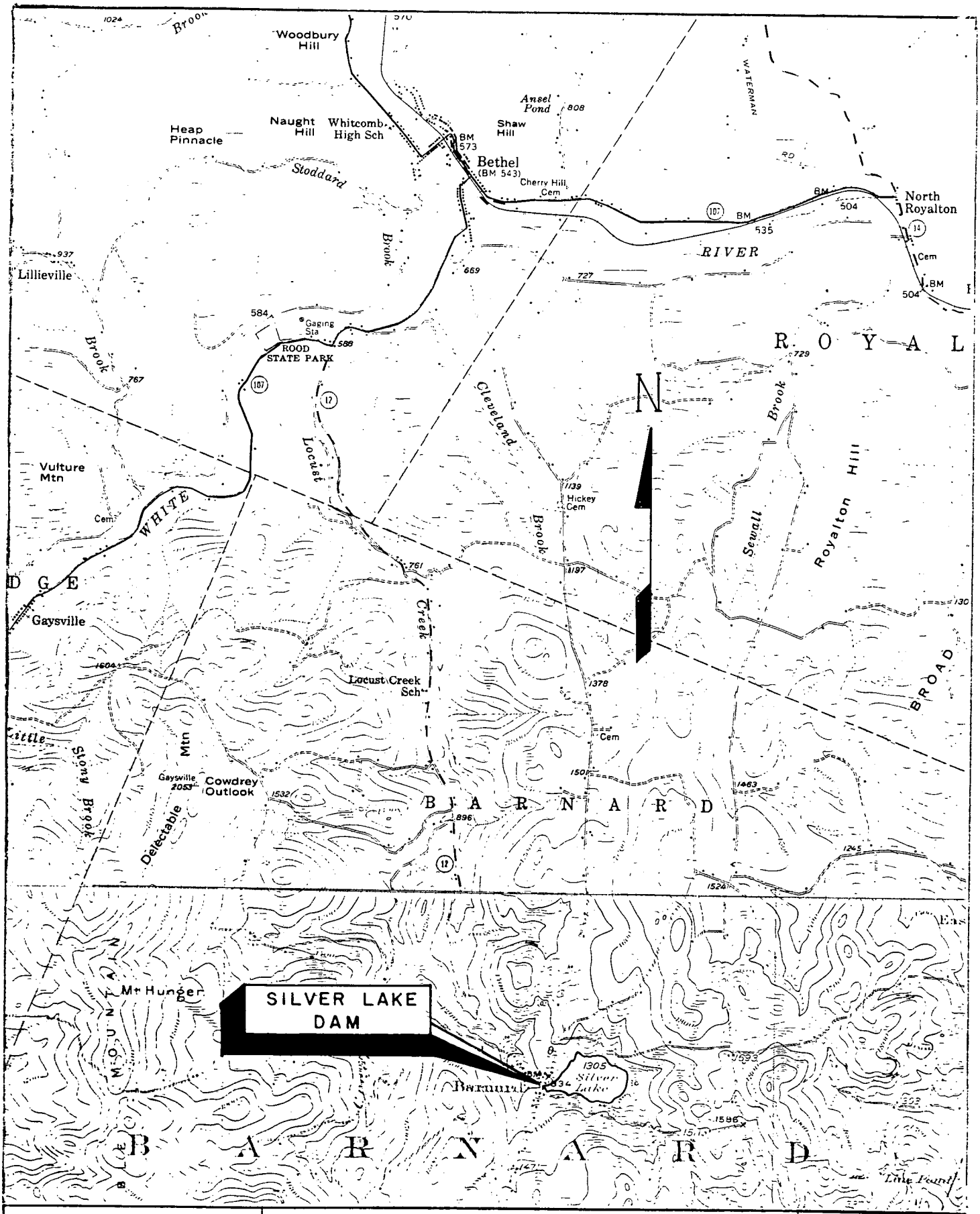
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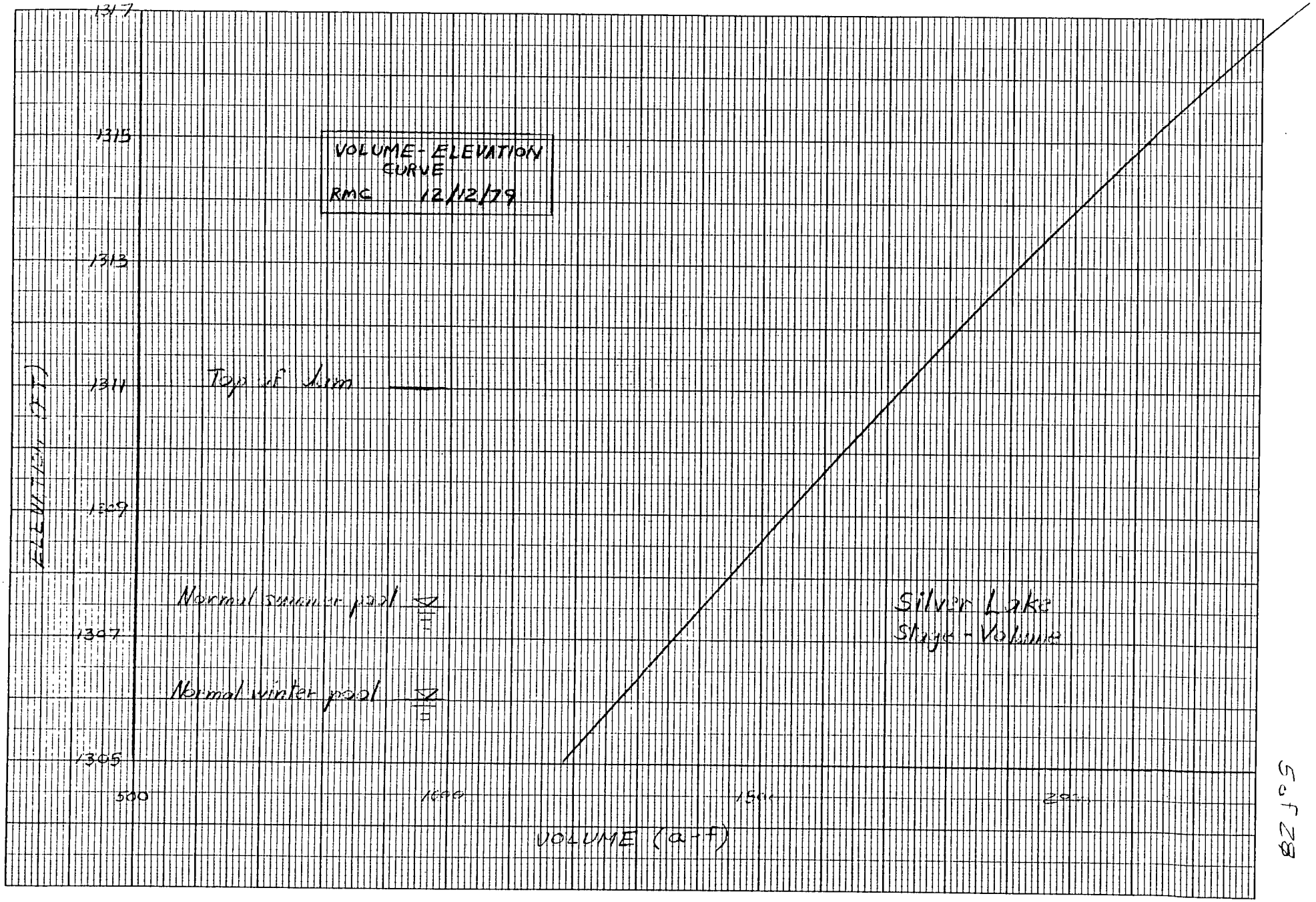
DuBois & King inc.
engineering and environmental services
RANDOLPH VERMONT CONCORD NEW HAMPSHIRE

STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION

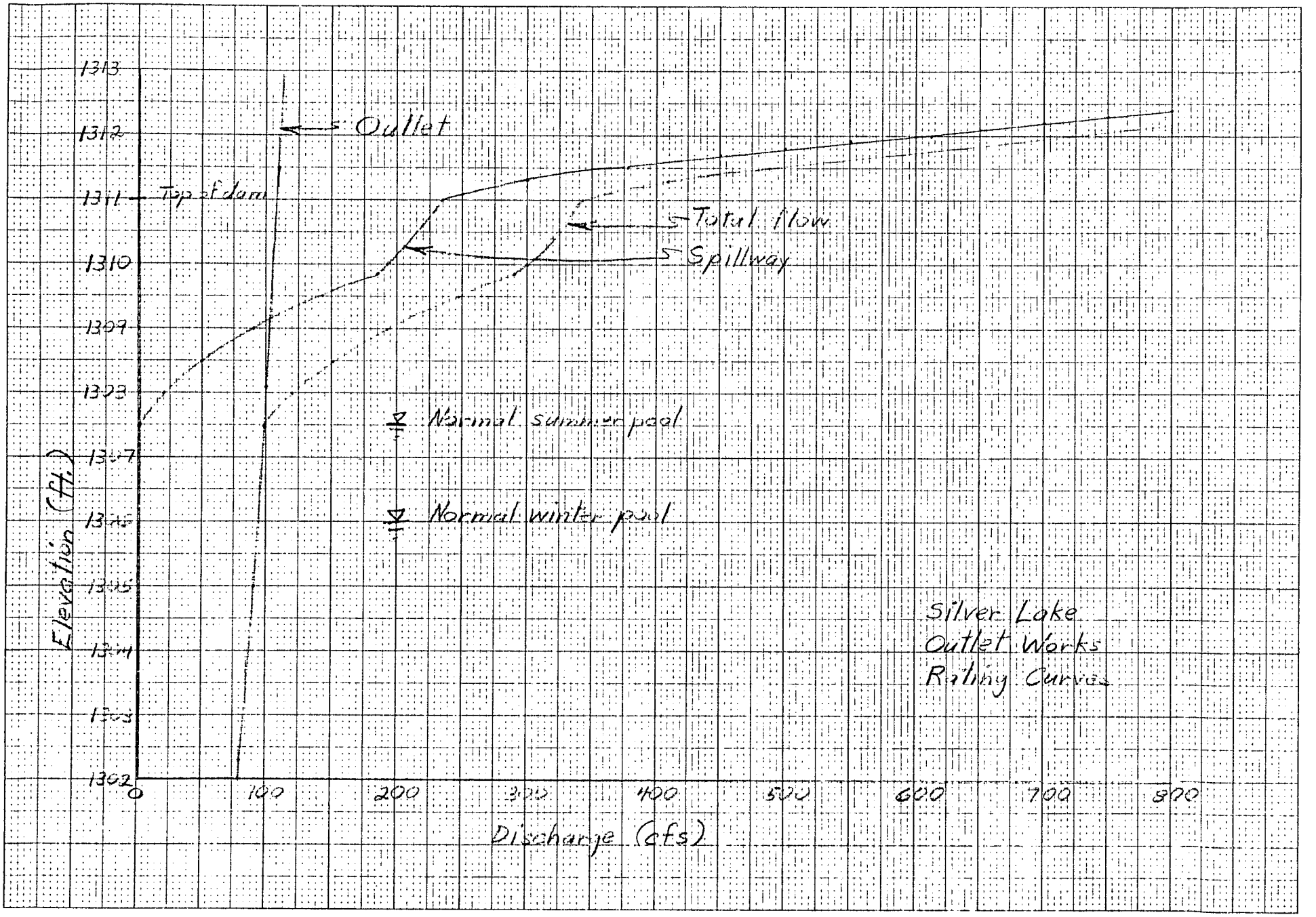
PROJECT LOCATION MAP
SILVER LAKE DAM

DRAWN BY SJT	DATE 8/82
CHECKED BY [illegible]	PROJ. NO. 29303
PROJ ENG RJW	DRAW. NO. R-1797

K+E 10 X 10 TO ½ INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



K&E 10 X 10 TO ½ INCH 7 X 10 INCHES
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Inspection Criteria

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The dam should be inspected twice a year, once during high water and again at low water conditions. These inspections are to be performed by personnel from the State of Vermont Agency of Environmental Conservation. Key elements for inspecting the dam features are as follows:

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1. Presence of animal burrows, as beaver and muskrat may use the dam embankment.

2. Tree and brush growth, as root penetration could represent future seepage paths.

3. Visible seeps in the embankment or wet, soft areas on the downstream face or toe should be located and photographed. Notable increase in seepage rates or cloudy water transporting fines would call for immediate action.

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5. Observe and record water levels in the observation wells. High water levels may indicate seepage problems which would increase the potential for embankment failure.

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1. The concrete should be observed for weathering and other cracking associated with either heaving or settlement within the structure.

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Repair and restoration of project features will be necessary over a period of years. The embankment is exposed to severe weather conditions and other natural hazards such as possible animal activity or uncontrolled growth of vegetation. Preventive measures can be anticipated and scheduled to minimize the amount of remedial work in the years to come. The State of Vermont Agency of Environmental Conservation is responsible for the accomplishment of all maintenance work. Specific tasks which should be performed are as follows:

1. Mow the dam embankment area 10 feet downstream of toe of embankment to control brush growth.

2. Cut brush which may be growing up through riprap.

3. Coordinate with the Barnard Fire Department and flush the dry hydrant.

4. Seed and mulch paths worn by trespassers.

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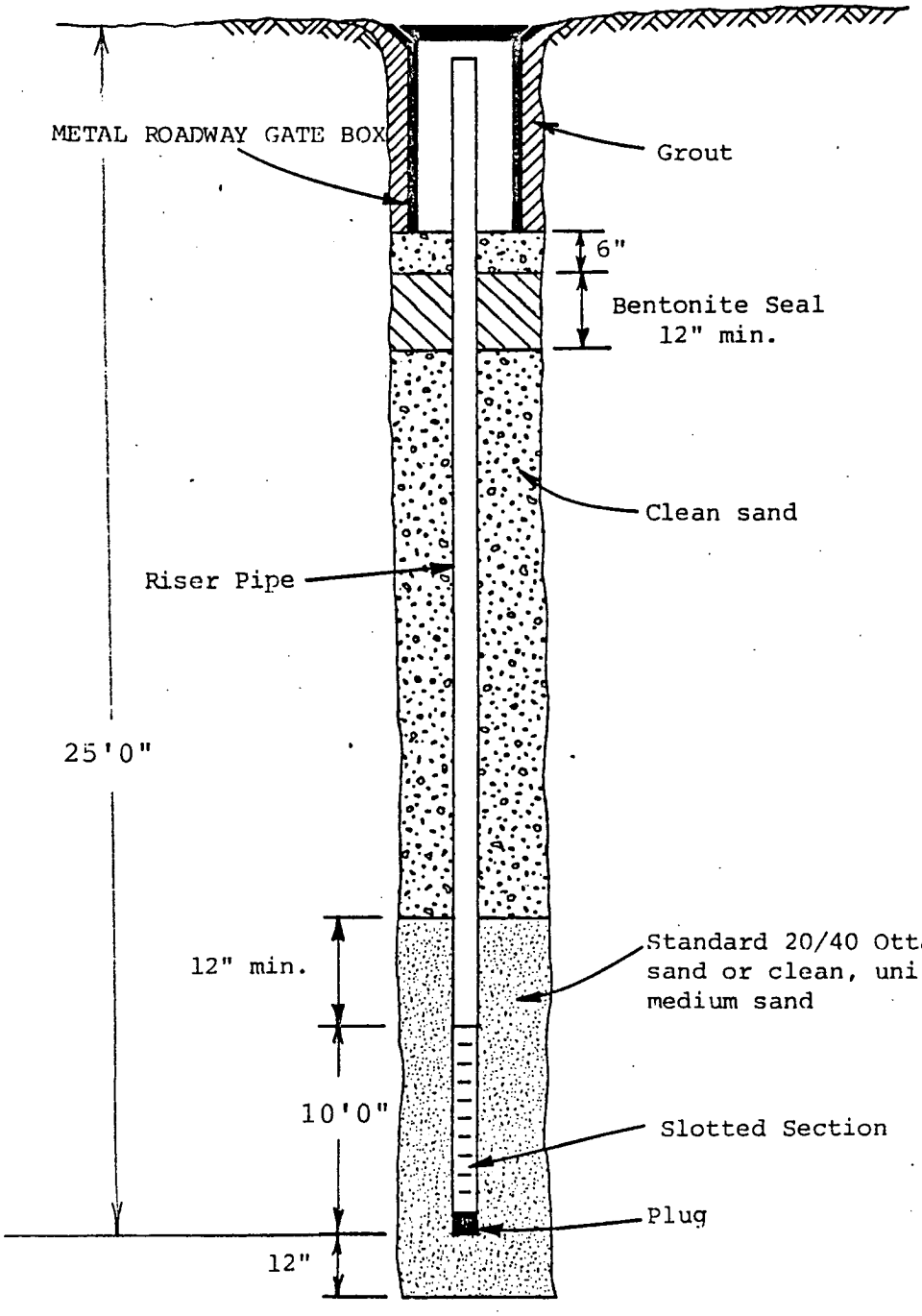
SILVER LAKE

WATER LEVEL OBSERVATIONS

Date	Water level below top of drop inlet	Lake level	Water level below top of pipe obs. well B-3	B-3 water level	Water level below top of pipe obs. well B-4	B-4 water level

NOTES:

1. Elevation 1310 on chisel square NW Corner top low level outlet weir box.
2. Elevation 1310.952 on top of pipe at B-3.
3. Elevation 1309.228 on top of pipe at B-4.



NOT TO SCALE

DuBois & King, Inc. Randolph, Vermont	Silver Lake Dam Barnard, Vermont	GROUNDWATER OBSERVATION WELL
GEOTECHNICAL ENGINEERS INC. WINCHESTER • MASSACHUSETTS	Project 81885	April 21, 1982

FLOOD WARNING AND EVACUATION PLAN

SILVER LAKE FLOOD WARNING AND EVACUATION PLAN

BARNARD, VERMONT

Purpose

The purpose of this plan is to provide for the safety of residents situated along Pond Brook and Locust Creek, downstream of Silver Lake Dam, whose lives would be threatened in the event of a dam failure. The plan provides criteria for monitoring the dam to determine when a significant threat of dam failure exists. The plan then provides a mechanism for timely evacuation of the residents whose lives are threatened.

Plan

During an intense flood event, Silver Lake will act to control the magnitude of flood elevations in Pond Brook and Locust Creek. However, if the Lake should fill to the point where the dam is overtopped, then a severe threat of dam failure exists and all threatened residents should be evacuated. Since the dam will overtop an average of once every 500 years, the risk of dam failure by overtopping is very low. This plan is valid for all dam failure emergencies. The complete flood warning and evacuation plan for the Silver Lake Dam consists of four phases: Dissemination, Monitoring, Warning and Evacuation.

1. Dissemination of Plan

   A copy of the Silver Lake Dam Breach flood inundation map shall be kept on file in the Town Clerk's office. All houses subject to flooding depicted on the inundation map shall be identified and the names, addresses and phone numbers of all residents shall be kept current and on file in the Town Clerk's office. Copies of the Flood Warning and Evacuation Plan shall be distributed to all responsible organizations.

2. Monitoring Procedure

   The risk of dam failure increases as the water level in the Lake rises. A threshhold water elevation of 1309.0 is chosen as the maximum level at which continuous monitoring shall begin. This level corresponds to two feet below the top of the concrete cutoff wall (or approximately 1.5 feet above the normal summer Lake level). On average, the Lake will reach this level once every 10 years. Continuous monitoring shall cease only as the flood recedes and the Lake elevation drops below 1309.0.

   The Barnard Fire Department in conjunction with the Barnard Town Clerk are responsible for the local implementation of the monitoring plan. The State of Vermont, through subsequent coordination with the Town of Barnard, will provide personnel to monitor the Lake level during extreme flood events.

3. Flood Warning Procedure

As soon as the threshold water elevation of 1309.0 is reached, the local delegate responsible for continuous monitoring shall warn the Vermont Department of Water Resources and the Barnard Fire Department. This warning will serve to initiate lines of communication for the impending evacuation alert. This phase serves to establish lines of communication only; it is not a formal evacuation alert.

4. Evacuation Alert

A final threshold water elevation of 1310.0 is chosen as the level at which an evacuation alert shall be sounded by the Barnard Fire Department.

ORGANIZATION AND RESPONSIBILITIES

The State of Vermont is responsible for the overall emergency response of the Town. Delegation of the response is as follows:

A. The State of Vermont in conjunction with the Town of Barnard will provide personnel to monitor the Lake level during extreme flood events. A rise in Lake level to an elevation of 1309.0 (two feet below top of concrete cutoff wall) will be reported to the Barnard Fire Department, and the Vermont Department of Water Resources.

Contacts

State Personnel	Home Tel.	Office Tel.
Water Resources		
Peter Barranco, Dam Safety Engr.	229-0610	828-2761
Dave Clough, Dir. of Water Quality	476-4051	828-2761
Forests, Parks, and Recreation		
Silver Lake State Park		234-9451
Gifford Woods State Park (operator)		773-2657
Fish & Game		828-3371
Civil Defense		828-2163
Barnard Fire Department		
Emergency Telephone		234-5253

B. The Barnard Fire Department is responsible for dissemination of the evacuation alert and notification of other essential personnel. In the event an evacuation is ordered, the Barnard Fire Department will:

1. Receive the order of evacuation - telephone number 234-5253.

2. Sound outdoor warning device to alert residents.

3. Notify affected residents by telephone.

4. Page volunteer firefighters to assist in evacuating residents.

5. Dispatch personnel to threatened areas to insure that the evacuation alert was received by the residents.

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   - Barnard Civil Defense Organization (Gerald Gibbs) - 763-7407

   - Vermont Civil Defense - 828-2163

   - White River Valley Ambulance - 728-9600

   - Woodstock Red Cross Chapter - 457-2303

C. The Barnard Civil Defense Organization is responsible for the coordination of town emergency actions, establishment of an emergency operations center and providing continuous liaison with Vermont Civil Defense Headquarters. It will also provide for the sheltering, transportation and feeding of evacuees when necessary. Finally, it will disseminate information to residents concerning the warning notice and evacuation plan as well as shelter locations before an emergency situation arises.

State of Vermont

AGENCY OF ENVIRONMENTAL CONSERVATION

Department of Fish and Game
Department of Forests, Parks, and Recreation
Department of Water Resources & Environmental Engineering
Natural Resources Conservation Council

Montpelier, Vermont 05602
Department of Water Resources
and
Environmental Engineering

December 20, 1984

Mr. Gerald Gibbs
Barnard Town Civil
Defense Coordinator
Barnard, Vermont 05301

Re: Silver Lake Dam - Barnard, VT

Dear Mr. Gibbs:

Attached is a copy of the Operation and Maintenance Manual and Flood Warning and Evacuation Plan for Silver Lake Dam.

Briefly, the flood plan provides for an orderly response to a major flood. When the lake level gets up to 1309.0, (two feet below the top of the cutoff wall), call the State and the Barnard Fire Department to initiate continuous monitoring of the dam. At lake elevation 1310.0, (one foot below the top of the cutoff wall), the plan calls for an evacuation alert to be sounded. The dam would be overtopped at lake elevation 1311.5 (six inches above the concrete wall) on the average of about once every 500 years.

If you have any question or suggestions to improve the plan please call me at 828-3361.

Thank you.

Sincerely,

Robert B. Finucane, P.E.
Facilities Engineer

RBF:arm
Enc: as noted above

CC: See Attached List

Reginald A. LaRosa, P.E., Chief of Operations

A. Peter Barranco, P.E., Dam Safety Engineer

Raymond Harwood, Regional Manager

Len Gerardi

Civil Defense

Dwaine Manning, Barnard Fire Department

Gerald Gibbs, Barnard Civil Defense

Town Clerk, Barnard

Selectmen, Barnard

Terry Harlow, Barnard General Store

Dan Germain, Silver Lake State Park

6.4

SILVER LAKE DAM
BARNARD, VERMONT

OPERATION AND MAINTENANCE MANUAL
with
FLOOD WARNING AND EVACUATION PLAN

Prepared for
STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION
DEPARTMENT OF WATER RESOURCES AND
ENVIRONMENTAL ENGINEERING
AND
DEPARTMENT OF FORESTS, PARKS AND RECREATION

August 1984

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Flood Warning and Evacuation Plan	12

SILVER LAKE DAM

OPERATION AND MAINTENANCE MANUAL

General

The purpose of this manual is two-fold. First, it provides a guide for annual maintenance and inspection procedures and a record of the recently rehabilitated Silver Lake Dam. Secondly, this manual contains the flood warning and evacuation plan for this dam.

Project Description

Location

Silver Lake Dam is located on the North Road in the Village of Barnard.

Description of Dam

The dam consists of a concrete cut-off and facing walls constructed in 1968. These walls are placed against and doweled to existing concrete and masonry walls constructed as early as 1806. The concrete walls are supported by an earthen embankment with a granular filter layer and riprap on the downstream face. This embankment also serves as the foundation for a town highway, the North Road, running along the crest of the dam. The embankment was reconstructed in 1984.

During normal operating conditions, the lake level is controlled by use of stop planks at the outlet structure and flashboards on the emergency spillway. The emergency spillway consists of four (4) 36-inch corrugated metal pipes which discharge onto the downstream riprapped face. These spillway pipes are grouted into the concrete cutoff wall at the upstream face of the dam.

The outlet consists of one (1) 30-inch diameter cement-lined ductile iron pipe the upstream end of which is grouted into the wall of an intake structure that is part of the concrete cutoff wall. The outlet discharges onto the riprap on the downstream face of the dam. Flow into the intake structure is controlled by stop logs and a 24"x36" sluice gate.

As a safety precaution to assure structural stability, two observation wells have been installed for the purpose of monitoring water levels in the embankment.

Project Data Summary

Elevations (N.G.V.D.)

1.	Top of dam	1311.0
2.	Design high water level	1310.9
3.	Normal water level	
	a. summer	1307.5
	b. winter	1306.0

4. Spillway crest (pipe invert) 1306.0

5. Upstream invert 30-inch diameter outlet 1292.0

6. Streambed at toe of dam 1284 ±

7. Maximum tailwater 1290 ±

Storage (acre-feet)

1. Recreation pool 1410

2. Design high water level (500-yr flood) 1711

3. Top of dam 1720

Reservoir Surface (acres)

1. Normal water level 85

Dam

1. Type - Earthen embankment with an upstream concrete cut-off wall and culverts for the spillway section

2. Length - 110 feet ±

3. Height - 27 feet

4. Top width - 45 feet

5. Side slopes - upstream, vertical
   downstream, 2H:1V

6. Zoning - Riprap and granular filter layer on downstream face

Spillway

1. Type - Corrugated metal pipes

2. Number of pipes - 4

3. Diameter of pipes - 36"

4. Invert elevation - 1306.0

5. Gates - Stop planks to elevation 1307.5 (summer only)

6. Upstream channel - Silver Lake

7. Downstream channel - Pond Brook

Regulating Outlet

1. Invert - 1292.0

2. Size - 30-inch diameter

3. Description - Ductile Iron Pipe, cement-lined

4. Control mechanism - Stop log structure 6.5 feet from dam x 4.0 feet wide with an invert near 1298; - also a sluice gate 2.0 feet wide x 3.0 feet high with an invert at 1298.0.

Hydrology and Hydraulics

Drainage Area

The drainage area for Silver Lake is 1.8 square miles of forested hillsides surrounding the Lake. The drainage is from hills which rise approximately 520 feet above normal pond level. They are predominantly covered with soils described as from glacial till.

There are at least five streams that flow into Silver Lake; none has a drainage area larger than 0.5 square miles. The longest stream has a length of approximately 3/4 mile with a mean slope of 500 feet per mile.

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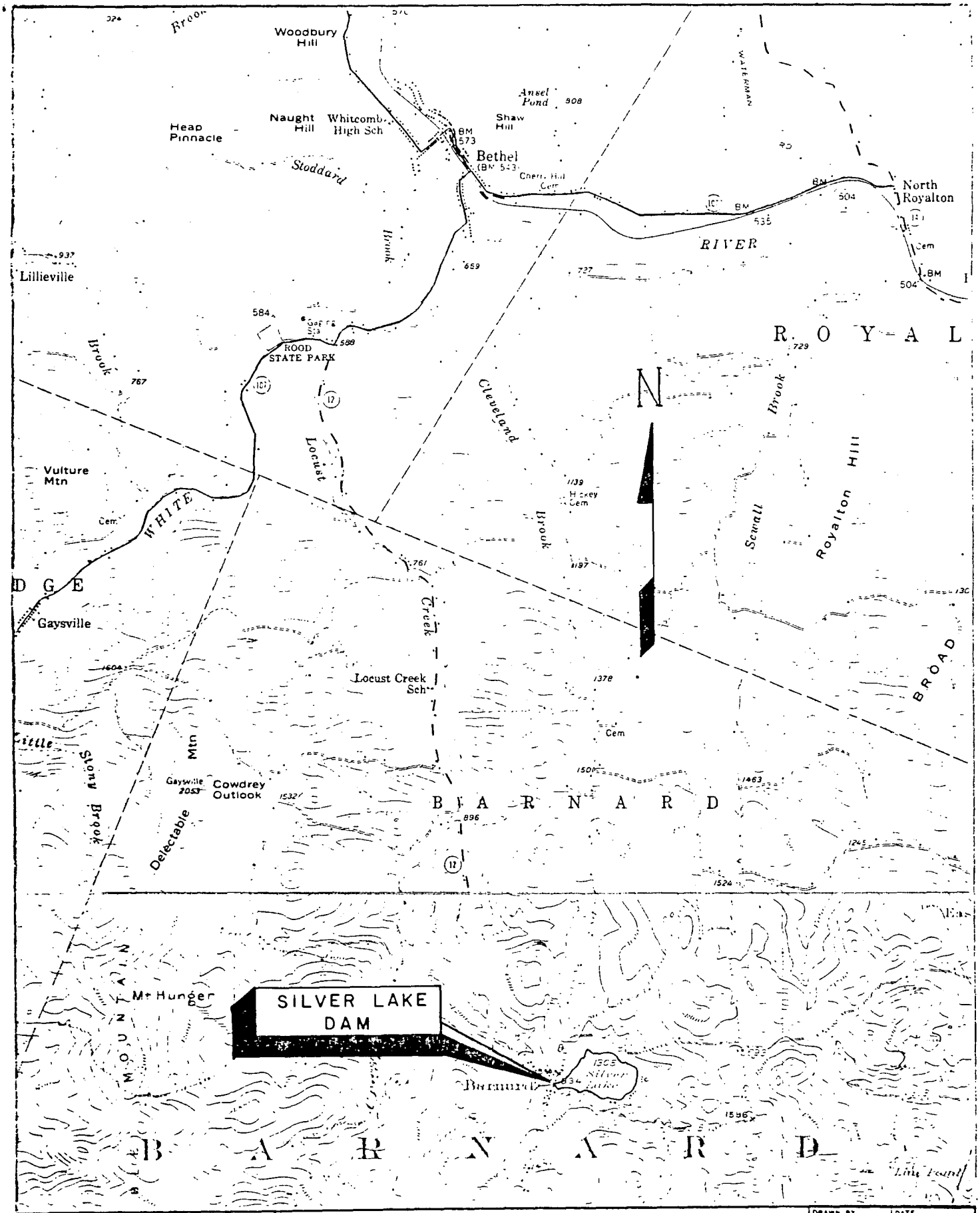
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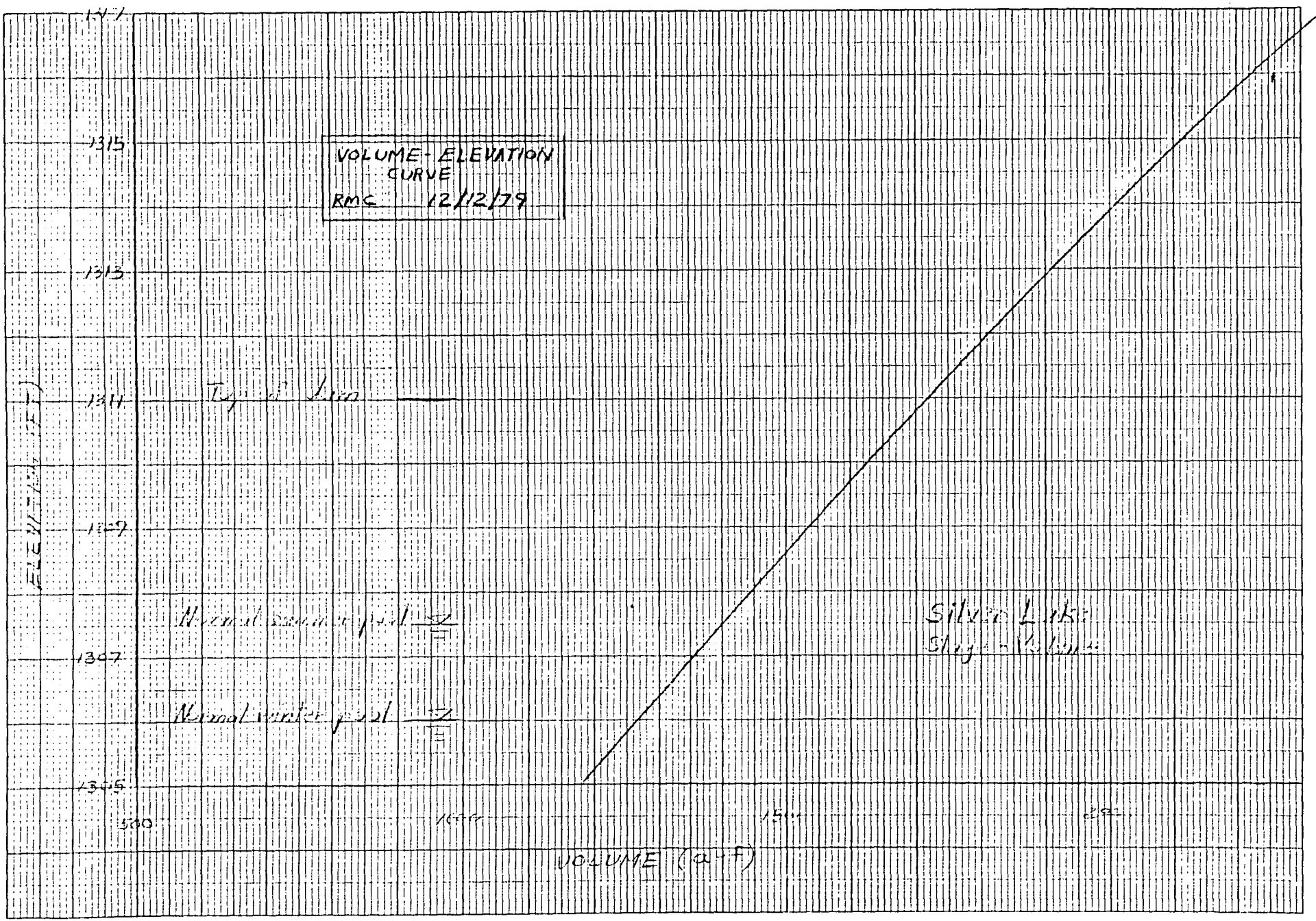


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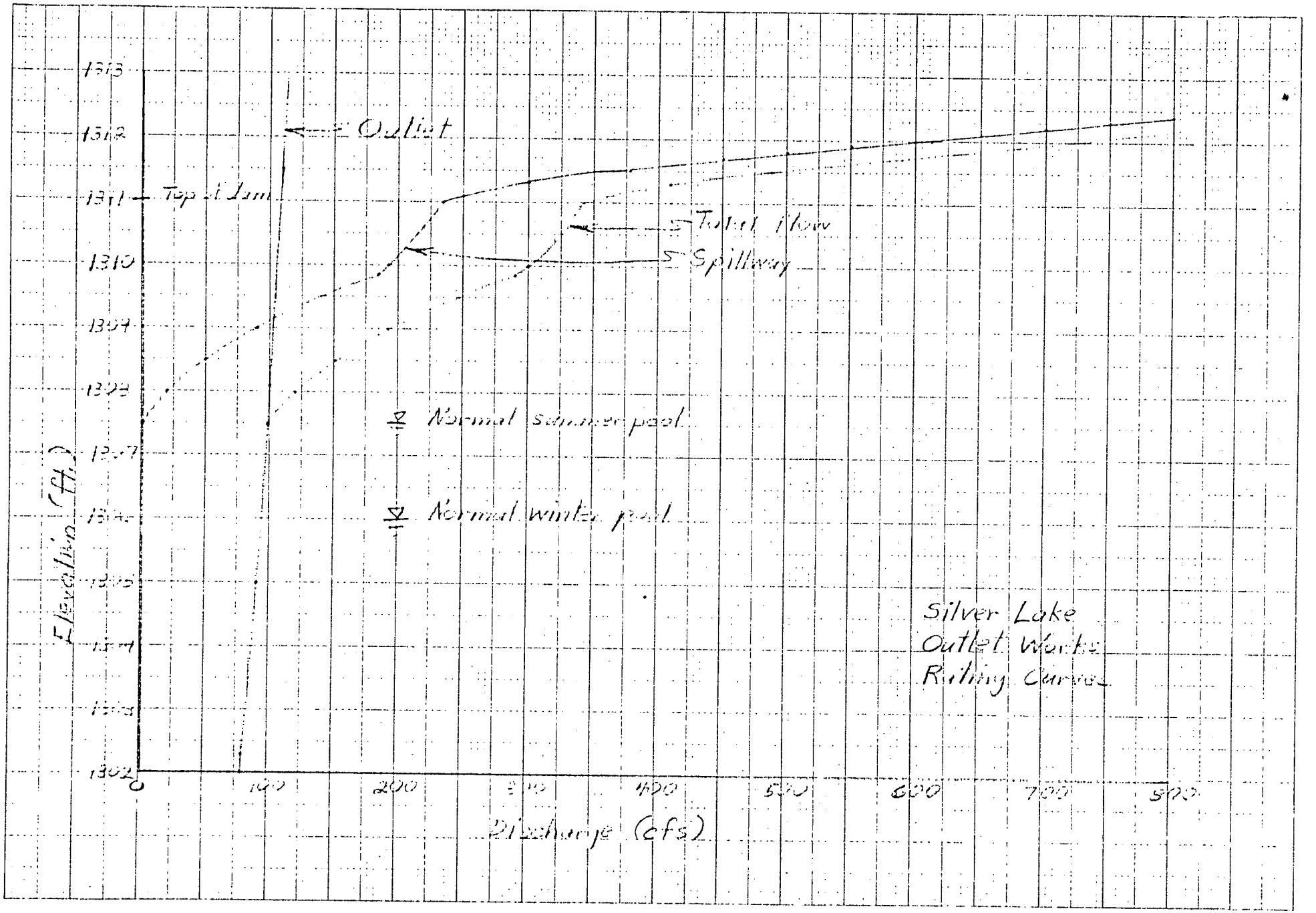
STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION

PROJECT LOCATION MAP
SILVER LAKE DAM

DRAWN BY	DATE
SJT	8/82
CHECKED BY	PROJ NO
[illegible]	29303
PROJ ENG	DRAW NO
RJW	R-1797


VOLUME - ELEVATION CURVE
RMC 12/12/79
1315
1313
1311
1309
1307
1305
500
1000
1500
2000
VOLUME (a-f)
Silver Lake
Stage - Volume

K&E 10 X 10 TO 1 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO MADE IN U.S.A.



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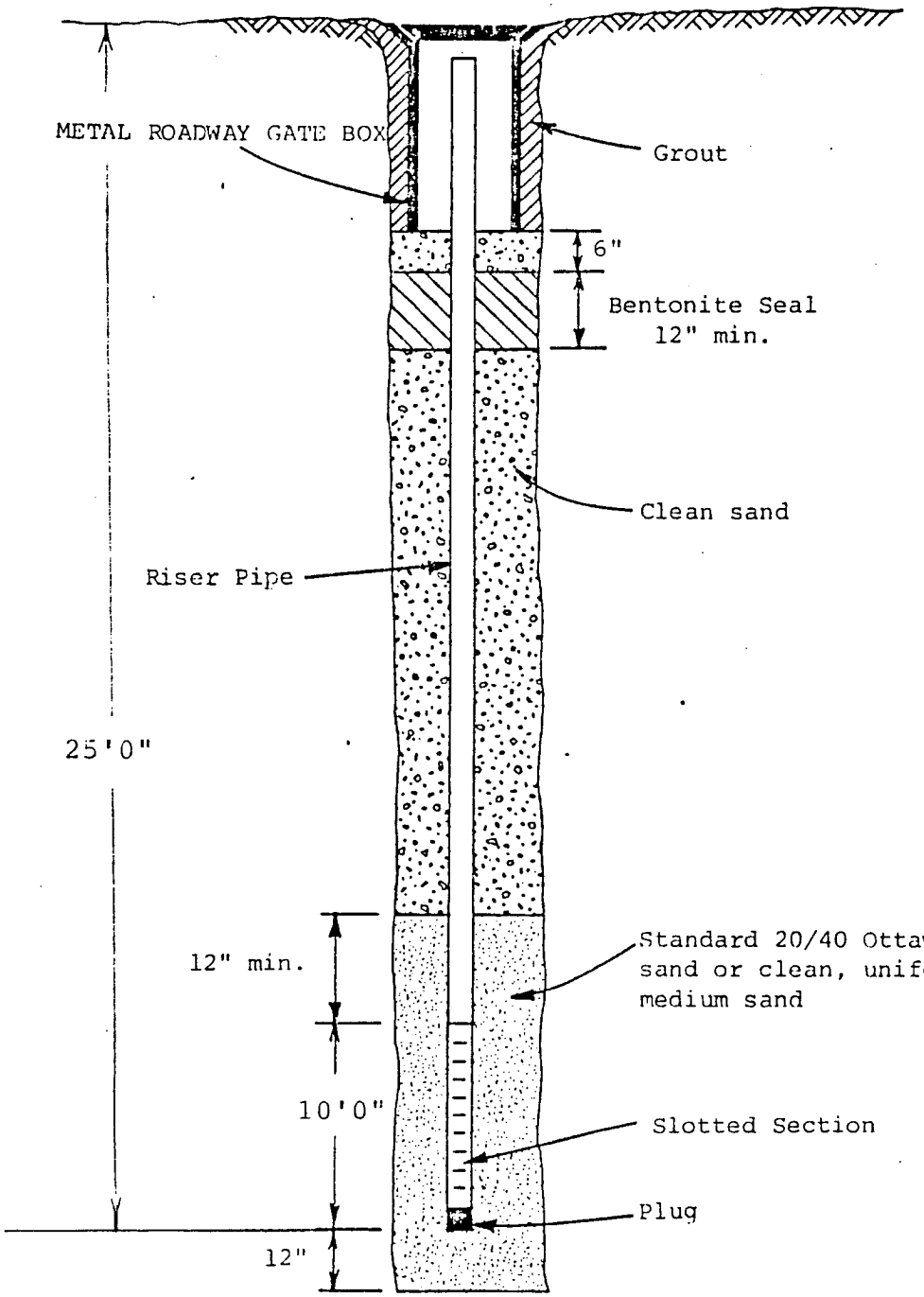
SILVER LAKE

WATER LEVEL OBSERVATIONS

Date	Water level below top of drop inlet	Lake level	Water level below top of pipe obs. well B-3	B-3 water level	Water level below top of pipe obs. well B-4	B-4 water level

NOTES:

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NOT TO SCALE

DuBois & King, Inc. Randolph, Vermont	Silver Lake Dam Barnard, Vermont	GROUNDWATER OBSERVATION WELL
GEOTECHNICAL ENGINEERS INC. WINCHESTER • MASSACHUSETTS	Project 81885	April 21, 1982

FLOOD WARNING AND EVACUATION PLAN

SILVER LAKE FLOOD WARNING AND EVACUATION PLAN

BARNARD, VERMONT

Purpose

The purpose of this plan is to provide for the safety of residents situated along Pond Brook and Locust Creek, downstream of Silver Lake Dam, whose lives would be threatened in the event of a dam failure. The plan provides criteria for monitoring the dam to determine when a significant threat of dam failure exists. The plan then provides a mechanism for timely evacuation of the residents whose lives are threatened.

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FC

State of Vermont

AGENCY OF ENVIRONMENTAL CONSERVATION

Department of Fish and Game
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Natural Resources Conservation Council

Montpelier, Vermont 05602
Department of Water Resources
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December 20, 1984

Mr. Gerald Gibbs
Barnard Town Civil
Defense Coordinator
Barnard, Vermont 05301

Re: Silver Lake Dam - Barnard, VT

Dear Mr. Gibbs:

Attached is a copy of the Operation and Maintenance Manual and Flood Warning and Evacuation Plan for Silver Lake Dam.

Briefly, the flood plan provides for an orderly response to a major flood. When the lake level gets up to 1309.0, (two feet below the top of the cutoff wall), call the State and the Barnard Fire Department to initiate continuous monitoring of the dam. At lake elevation 1310.0, (one foot below the top of the cutoff wall), the plan calls for an evacuation alert to be sounded. The dam would be overtopped at lake elevation 1311.5 (six inches above the concrete wall) on the average of about once every 500 years.

If you have any question or suggestions to improve the plan please call me at 828-3361.

Thank you.

Sincerely,

Robert B. Finucane, P.E.
Facilities Engineer

RBF:arm
Enc: as noted above

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6.4

SILVER LAKE DAM
BARNARD, VERMONT

OPERATION AND MAINTENANCE MANUAL
with
FLOOD WARNING AND EVACUATION PLAN

Prepared for
STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION
DEPARTMENT OF WATER RESOURCES AND
ENVIRONMENTAL ENGINEERING
AND
DEPARTMENT OF FORESTS, PARKS AND RECREATION

August 1984

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SILVER LAKE DAM

OPERATION AND MAINTENANCE MANUAL

General

The purpose of this manual is two-fold. First, it provides a guide for annual maintenance and inspection procedures and a record of the recently rehabilitated Silver Lake Dam. Secondly, this manual contains the flood warning and evacuation plan for this dam.

Project Description

Location

Silver Lake Dam is located on the North Road in the Village of Barnard.

Description of Dam

The dam consists of a concrete cut-off and facing walls constructed in 1968. These walls are placed against and doweled to existing concrete and masonry walls constructed as early as 1806. The concrete walls are supported by an earthen embankment with a granular filter layer and riprap on the downstream face. This embankment also serves as the foundation for a town highway, the North Road, running along the crest of the dam. The embankment was reconstructed in 1984.

During normal operating conditions, the lake level is controlled by use of stop planks at the outlet structure and flashboards on the emergency spillway. The emergency spillway consists of four (4) 36-inch corrugated metal pipes which discharge onto the downstream riprapped face. These spillway pipes are grouted into the concrete cutoff wall at the upstream face of the dam.

The outlet consists of one (1) 30-inch diameter cement-lined ductile iron pipe the upstream end of which is grouted into the wall of an intake structure that is part of the concrete cutoff wall. The outlet discharges onto the riprap on the downstream face of the dam. Flow into the intake structure is controlled by stop logs and a 24"x36" sluice gate.

As a safety precaution to assure structural stability, two observation wells have been installed for the purpose of monitoring water levels in the embankment.

Project Data Summary

Elevations (N.G.V.D.)

1.	Top of dam	1311.0
2.	Design high water level	1310.9
3.	Normal water level	
	a. summer	1307.5
	b. winter	1306.0

4. Spillway crest (pipe invert) 1306.0

5. Upstream invert 30-inch diameter outlet 1292.0

6. Streambed at toe of dam 1284 ±

7. Maximum tailwater 1290 ±

Storage (acre-feet)

1. Recreation pool 1410

2. Design high water level (500-yr flood) 1711

3. Top of dam 1720

Reservoir Surface (acres)

1. Normal water level 85

Dam -

1. Type - Earthen embankment with an upstream concrete cut-off wall and culverts for the spillway section

2. Length - 110 feet ±

3. Height - 27 feet

4. Top width - 45 feet

5. Side slopes - upstream, vertical
   downstream, 2H:1V

6. Zoning - Riprap and granular filter layer on downstream face

Spillway -

1. Type - Corrugated metal pipes

2. Number of pipes - 4

3. Diameter of pipes - 36"

4. Invert elevation - 1306.0

5. Gates - Stop planks to elevation 1307.5 (summer only)

6. Upstream channel - Silver Lake

7. Downstream channel - Pond Brook

Regulating Outlet

1. Invert - 1292.0

2. Size - 30-inch diameter

3. Description - Ductile Iron Pipe, cement-lined

4. Control mechanism - Stop log structure 6.5 feet from dam x 4.0 feet wide with an invert near 1298; - also a sluice gate 2.0 feet wide x 3.0 feet high with an invert at 1298.0.

Hydrology and Hydraulics

Drainage Area

The drainage area for Silver Lake is 1.8 square miles of forested hillsides surrounding the Lake. The drainage is from hills which rise approximately 520 feet above normal pond level. They are predominantly covered with soils described as from glacial till.

There are at least five streams that flow into Silver Lake; none has a drainage area larger than 0.5 square miles. The longest stream has a length of approximately 3/4 mile with a mean slope of 500 feet per mile.

Design Data

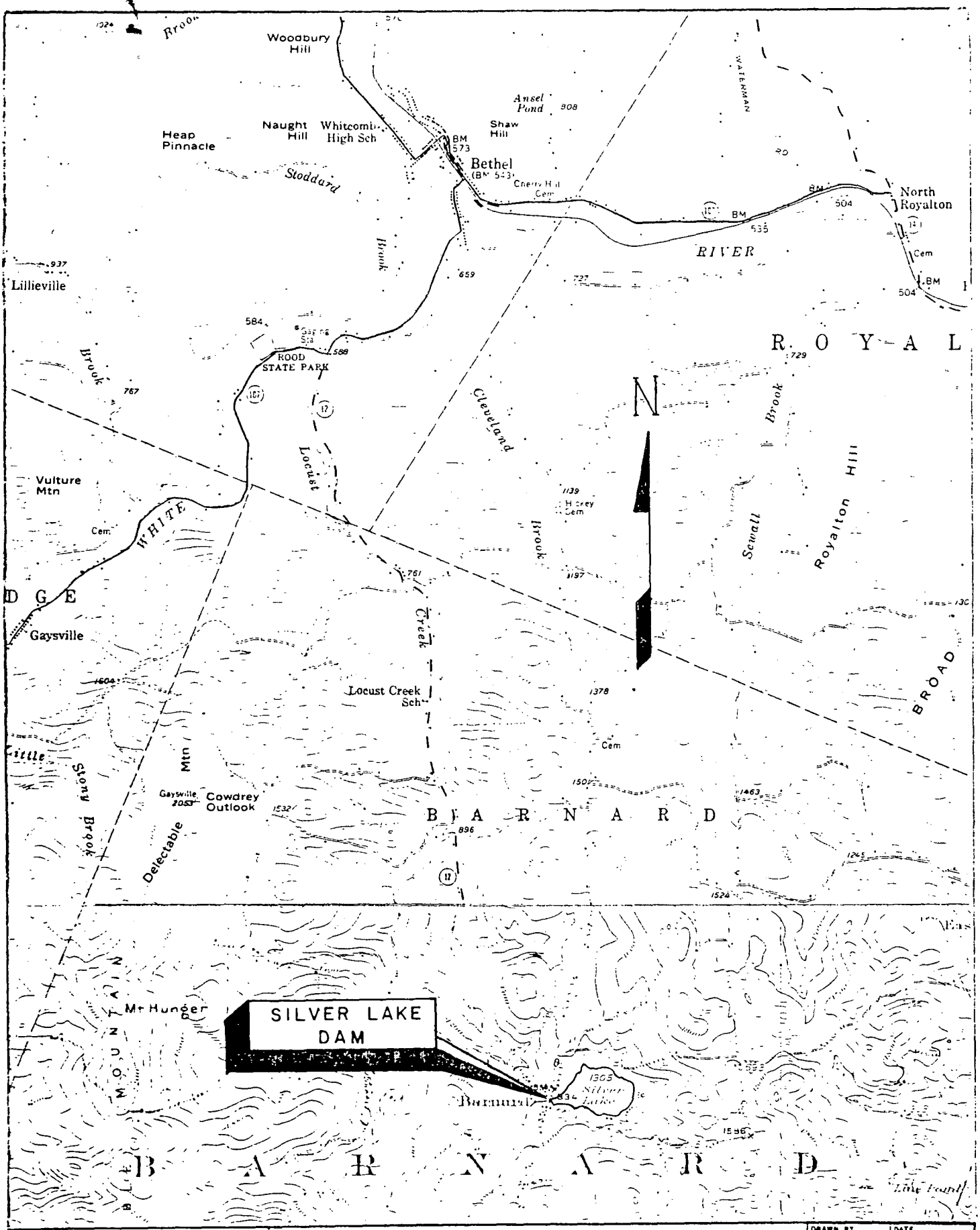
The spillway capacity was evaluated in 1981 during the design portion of the project to repair the dam.

The spillway capacity at an elevation of 1311.0 feet (top of concrete cutoff wall) is approximately 235 cfs. The 500-year flood will raise the Lake to 1310.9 feet (starting from the normal summer pool of 1307.5 feet), has a peak inflow of 1270 cfs, and has a peak outflow of 231 cfs.

The Lake has substantial flood control potential because it has active storage for 4.4 inches of watershed runoff in the 3.5 feet of freeboard above normal pool elevations.

Overtopping Potential

The top of the concrete cutoff wall is in danger of being overtopped by a rare flood event. The wall will, for existing conditions, be overtopped on the average once in 500 years. The actual elevation of the top of the dam is seven inches above the wall due to the crown of the road that crosses the crest; this decreases the potential for overtopping even more.



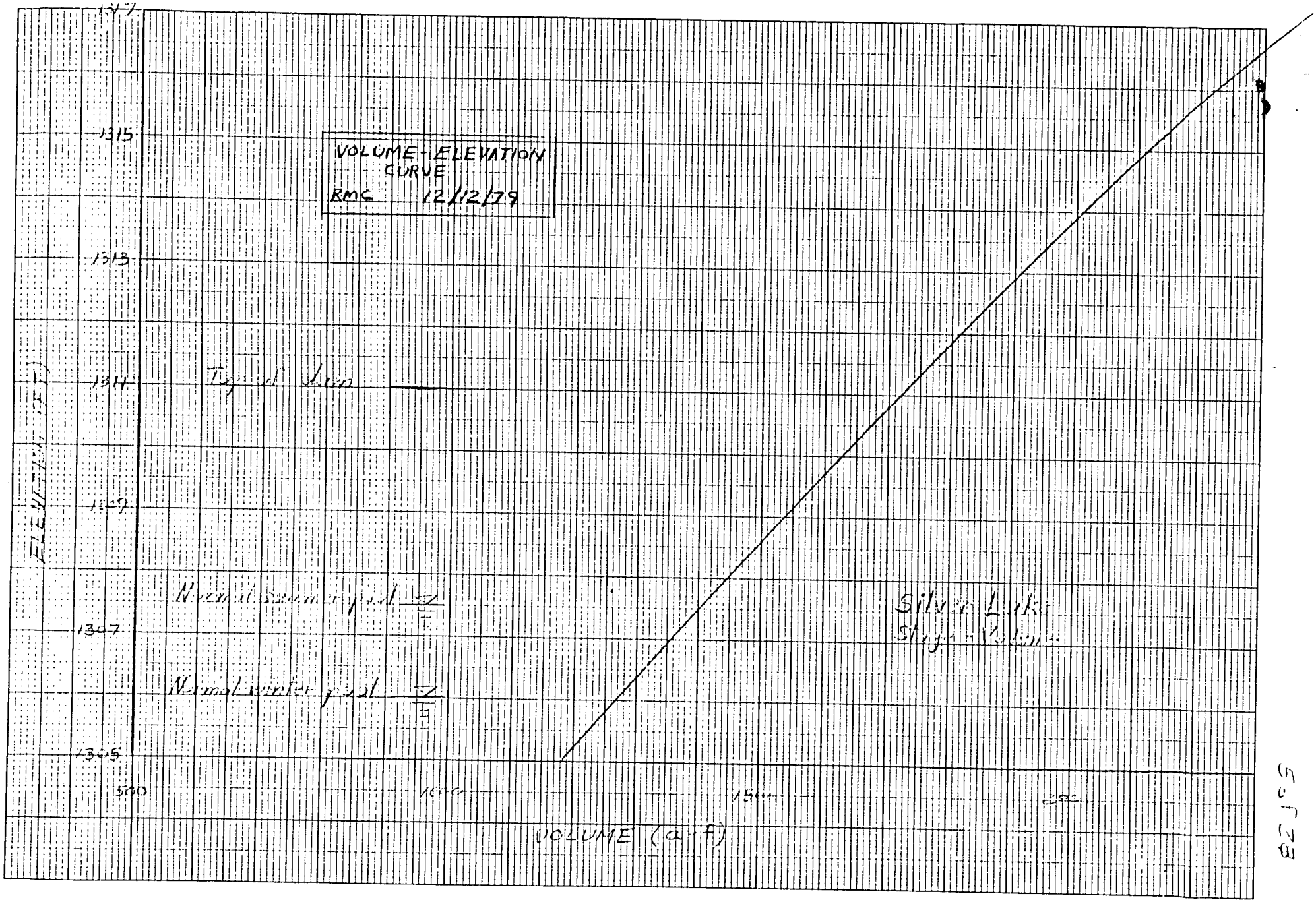
DuBois & King Inc.
engineering and environmental services
RANDOLPH VERMONT CONCORD NEW HAMPSHIRE

STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION

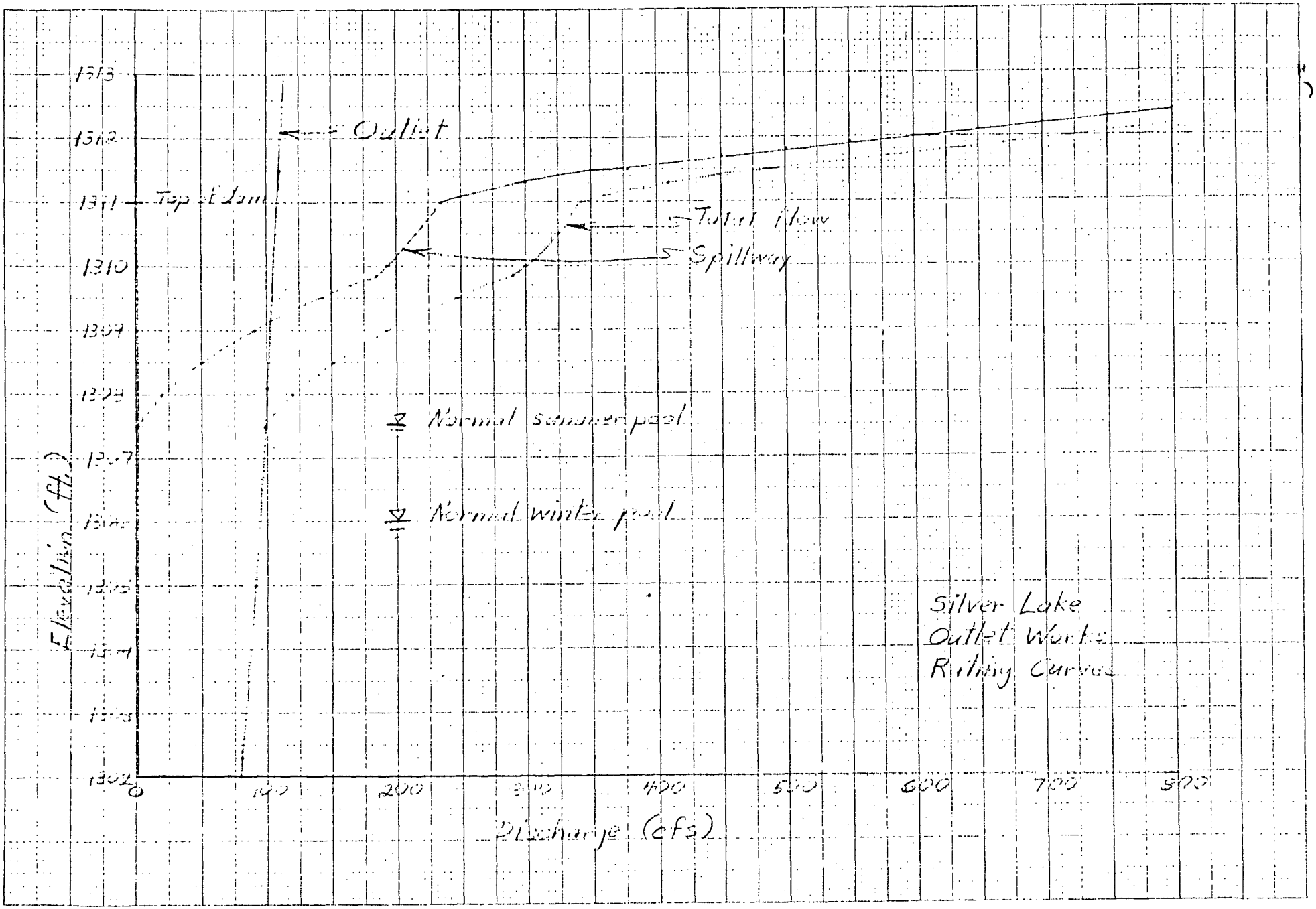
PROJECT LOCATION MAP
SILVER LAKE DAM

DRAWN BY	DATE
SJT	8/82
CHECKED BY	PROJ NO
[illegible]	29303
PROJ ENG	DRAW NO
BJW	R-1797

K&E 10 X 10 TO ½ INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



K&E 10 X 10 TO 1 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO MADE IN U.S.A.



Inspection Criteria

General

The dam should be inspected twice a year, once during high water and again at low water conditions. These inspections are to be performed by personnel from the State of Vermont Agency of Environmental Conservation. Key elements for inspecting the dam features are as follows:

Earth Embankment Inspection Points

1. Presence of animal burrows, as beaver and muskrat may use the dam embankment.

2. Tree and brush growth, as root penetration could represent future seepage paths.

3. Visible seeps in the embankment or wet, soft areas on the downstream face or toe should be located and photographed. Notable increase in seepage rates or cloudy water transporting fines would call for immediate action.

4. Sloughing of embankment material should be located and investigated.

5. Observe and record water levels in the observation wells. High water levels may indicate seepage problems which would increase the potential for embankment failure.

6. Displacement of riprap which may result in future erosion problems.

7. The dry hydrant and the location of appurtenant piping should be checked for visible displacement or seepage flowing along the pipe line.

Concrete and Appurtenances

1. The concrete should be observed for weathering and other cracking associated with either heaving or settlement within the structure.

2. The stop planks should be examined and any increases in leakage through them noted.

3. Check the outlet and emergency spillway pipes for debris, settlement, joint separation and water leakage.

4. Lubricate and exercise the sluice gate.

5. Check trash rack for accumulated debris and broken or damaged screening bars.

Annual Maintenance

Repair and restoration of project features will be necessary over a period of years. The embankment is exposed to severe weather conditions and other natural hazards such as possible animal activity or uncontrolled growth of vegetation. Preventive measures can be anticipated and scheduled to minimize the amount of remedial work in the years to come. The State of Vermont Agency of Environmental Conservation is responsible for the accomplishment of all maintenance work. Specific tasks which should be performed are as follows:

1. Mow the dam embankment area 10 feet downstream of toe of embankment to control brush growth.

2. Cut brush which may be growing up through riprap.

3. Coordinate with the Barnard Fire Department and flush the dry hydrant.

4. Seed and mulch paths worn by trespassers.

5. Perform corrective action for defects noted during semi-annual inspection. Possible work could include riprap restoration, embankment repairs, concrete repairs, replacing stop planks, and clearing trash rack.

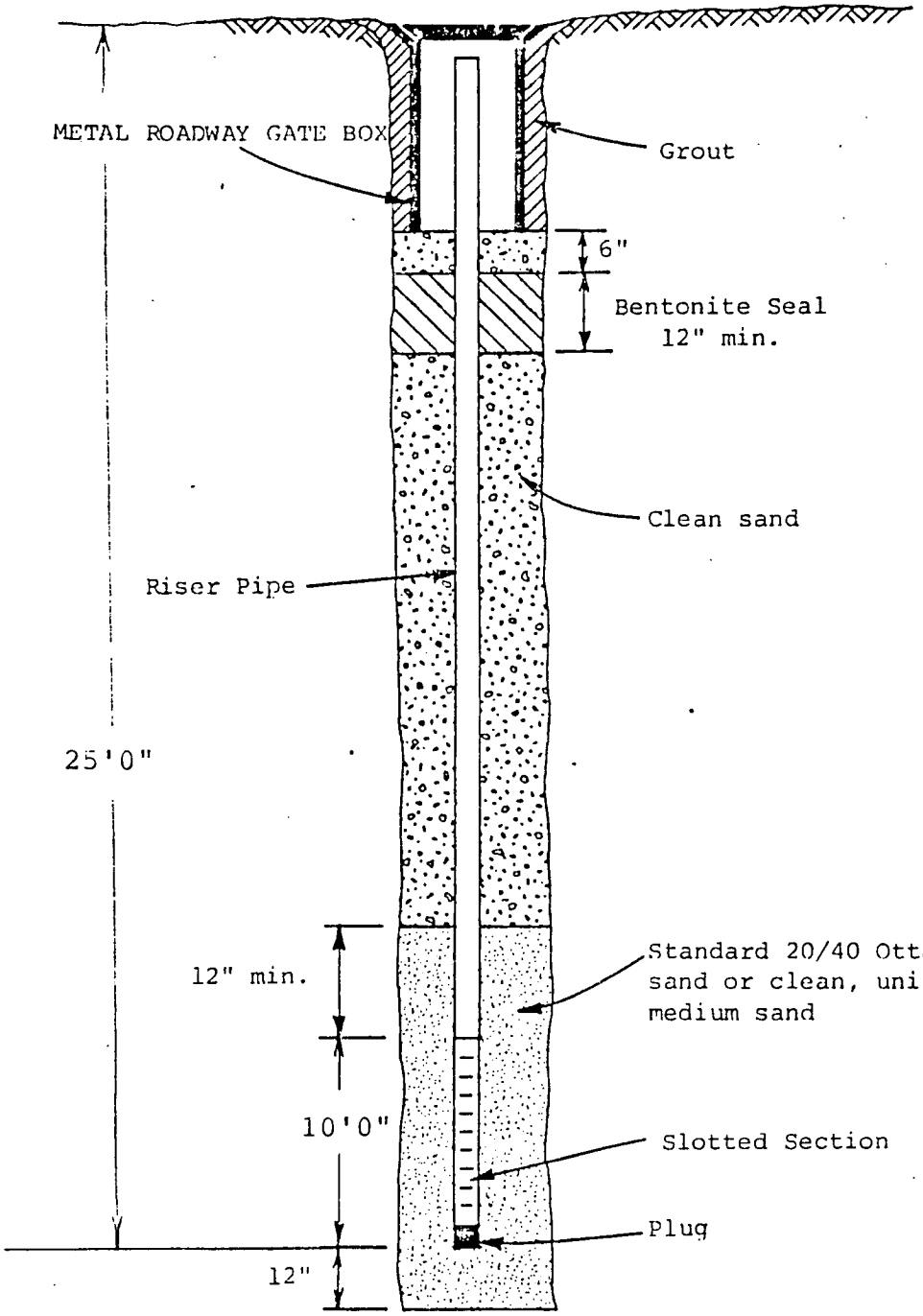
SILVER LAKE

WATER LEVEL OBSERVATIONS

Date	Water level below top of drop inlet	Lake level	Water level below top of pipe obs. well B-3	B-3 water level	Water level below top of pipe obs. well B-4	B-4 water level

NOTES:

1. Elevation 1310 on chisel square NW Corner top low level outlet weir box.
2. Elevation 1310.952 on top of pipe at B-3.
3. Elevation 1309.228 on top of pipe at B-4.



NOT TO SCALE

DuBois & King, Inc. Randolph, Vermont	Silver Lake Dam Barnard, Vermont	GROUNDWATER OBSERVATION WELL
GEOTECHNICAL ENGINEERS INC. WINCHESTER • MASSACHUSETTS	Project 81885	April 21, 1982

FLOOD WARNING AND EVACUATION PLAN

SILVER LAKE FLOOD WARNING AND EVACUATION PLAN

BARNARD, VERMONT

Purpose

The purpose of this plan is to provide for the safety of residents situated along Pond Brook and Locust Creek, downstream of Silver Lake Dam, whose lives would be threatened in the event of a dam failure. The plan provides criteria for monitoring the dam to determine when a significant threat of dam failure exists. The plan then provides a mechanism for timely evacuation of the residents whose lives are threatened.

Plan

During an intense flood event, Silver Lake will act to control the magnitude of flood elevations in Pond Brook and Locust Creek. However, if the Lake should fill to the point where the dam is overtopped, then a severe threat of dam failure exists and all threatened residents should be evacuated. Since the dam will overtop an average of once every 500 years, the risk of dam failure by overtopping is very low. This plan is valid for all dam failure emergencies. The complete flood warning and evacuation plan for the Silver Lake Dam consists of four phases: Dissemination, Monitoring, Warning and Evacuation.

1. Dissemination of Plan

   A copy of the Silver Lake Dam Breach flood inundation map shall be kept on file in the Town Clerk's office. All houses subject to flooding depicted on the inundation map shall be identified and the names, addresses and phone numbers of all residents shall be kept current and on file in the Town Clerk's office. Copies of the Flood Warning and Evacuation Plan shall be distributed to all responsible organizations.

2. Monitoring Procedure

   The risk of dam failure increases as the water level in the Lake rises. A threshhold water elevation of 1309.0 is chosen as the maximum level at which continuous monitoring shall begin. This level corresponds to two feet below the top of the concrete cutoff wall (or approximately 1.5 feet above the normal summer Lake level). On average, the Lake will reach this level once every 10 years. Continuous monitoring shall cease only as the flood recedes and the Lake elevation drops below 1309.0.

   The Barnard Fire Department in conjunction with the Barnard Town Clerk are responsible for the local implementation of the monitoring plan. The State of Vermont, through subsequent coordination with the Town of Barnard, will provide personnel to monitor the Lake level during extreme flood events.

3. Flood Warning Procedure

As soon as the threshold water elevation of 1309.0 is reached, the local delegate responsible for continuous monitoring shall warn the Vermont Department of Water Resources and the Barnard Fire Department. This warning will serve to initiate lines of communication for the impending evacuation alert. This phase serves to establish lines of communication only; it is not a formal evacuation alert.

4. Evacuation Alert

A final threshold water elevation of 1310.0 is chosen as the level at which an evacuation alert shall be sounded by the Barnard Fire Department.

ORGANIZATION AND RESPONSIBILITIES

The State of Vermont is responsible for the overall emergency response of the Town. Delegation of the response is as follows:

A. The State of Vermont in conjunction with the Town of Barnard will provide personnel to monitor the Lake level during extreme flood events. A rise in Lake level to an elevation of 1309.0 (two feet below top of concrete cutoff wall) will be reported to the Barnard Fire Department, and the Vermont Department of Water Resources.

Contacts

State Personnel	Home Tel.	Office Tel.
Water Resources		
Peter Barranco, Dam Safety Engr.	229-0610	828-2761
Dave Clough, Dir. of Water Quality	476-4051	828-2761
Forests, Parks, and Recreation		
Silver Lake State Park		234-9451
Gifford Woods State Park (operator)		773-2657
Fish & Game		828-3371
Civil Defense		828-2163
Barnard Fire Department		
Emergency Telephone		234-5253

B. The Barnard Fire Department is responsible for dissemination of the evacuation alert and notification of other essential personnel. In the event an evacuation is ordered, the Barnard Fire Department will:

1. Receive the order of evacuation - telephone number 234-5253.

2. Sound outdoor warning device to alert residents.

3. Notify affected residents by telephone.

4. Page volunteer firefighters to assist in evacuating residents.

5. Dispatch personnel to threatened areas to insure that the evacuation alert was received by the residents.

6. Notify the following organizations of the evacuation:

   - Barnard Civil Defense Organization (Gerald Gibbs) - 763-7407

   - Vermont Civil Defense - 828-2163

   - White River Valley Ambulance - 728-9600

   - Woodstock Red Cross Chapter - 457-2303

C. The Barnard Civil Defense Organization is responsible for the coordination of town emergency actions, establishment of an emergency operations center and providing continuous liaison with Vermont Civil Defense Headquarters. It will also provide for the sheltering, transportation and feeding of evacuees when necessary. Finally, it will disseminate information to residents concerning the warning notice and evacuation plan as well as shelter locations before an emergency situation arises.

Pete:

Those are

[illegible] copies

of Steve Lee Pen

file as discussed.

RSF