



**City of Keene**  
**New Hampshire**

**HERITAGE COMMISSION MEETING**

**MEETING AGENDA**

Wednesday, March 13, 2019

4:00 PM

2<sup>nd</sup> Floor Conference Room, City Hall

1. Call to Order / Roll Call
2. Section 106 Review – Colony Mill Marketplace
3. Section 106 Review - Woodward Dam Improvements
4. CLG Grant Spring and Summer 2019 Workshop Planning Discussion
5. New or Other Business
6. Next Meeting – May 8, 2019
7. Adjourn

Please mail the completed form and required material to:

RECEIVED

FEB 21 2019

New Hampshire Division of Historical Resources  
State Historic Preservation Office  
Attention: Review & Compliance  
19 Pillsbury Street, Concord, NH 03301-3570

DHR Use Only	
R&C #	10483
Log In Date	___/___/___
Response Date	___/___/___
Sent Date	___/___/___

X

### Request for Project Review by the New Hampshire Division of Historical Resources

- This is a new submittal
- This is additional information relating to DHR Review & Compliance (R&C) #:

#### GENERAL PROJECT INFORMATION

Project Title Colonial Mill Marketplace BWE / 10115536 / NH6028

<sup>Address</sup>  
Project Location 10115536 / NH6028

City/Town Keene

Tax Map \_\_\_\_\_

Lot # \_\_\_\_\_

NH State Plane - Feet Geographic Coordinates: Easting 818040

Northing 158036

(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact (if applicable) FCC Jill Springer, Jill.Springer@FCC.gov  
(Agency providing funds, licenses, or permits)

Permit Type and Permit or Job Reference # Wireless license

State Agency and Contact (if applicable)

Permit Type and Permit or Job Reference #

#### APPLICANT INFORMATION

Applicant Name AT&T Mobility, LLC

Mailing Address 1120 20th Street NW

Phone Number 202-457-3068

City Washington

State DC Zip 20036

Email at7161@att.com

#### CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Sarah Graulty / EBI Consulting

Mailing Address 21 B Street

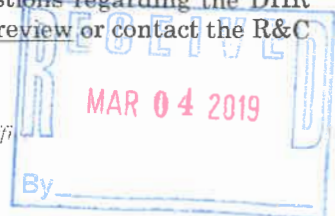
Phone Number 802-578-7030

City Burlington

State MA Zip 01803

Email sgraulty@ebiconsulting.com

This form is updated periodically. Please download the current form at [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review). Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review) or contact the R&C Specialist at [christina.st.louis@nh.gov](mailto:christina.st.louis@nh.gov) or 603.271.3558.



Project Boundaries and Description

- Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) *indicating the defined project boundary.* (See RPR Instructions and R&C FAQs for guidance.)
- Attach a detailed narrative description of the proposed project.
- Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) (Informative photo captions are requested.)
- A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1** or within project narrative description. (Blank table forms are available on the DHR website.)  
File review conducted on 1 / 23 / 2019.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area?  Yes  No  
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s): 108 years

- Photographs of *each* resource or streetscape located within the project area, with captions, along with a photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity?  Yes  No  
If yes, submit all of the following information:

- Description of current and previous land use and disturbances.
- Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

**Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.**

**DHR Comment/Finding Recommendation** *This Space for Division of Historical Resources Use Only*

- Insufficient information to initiate review.  Additional information is needed in order to complete review.
- No Potential to cause Effects  No Historic Properties Affected  No Adverse Effect  Adverse Effect

Comments: Please provide comment from the  
Kennebunk Heritage Commission.

*If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.*

Authorized Signature: [Signature] Date: 2/27/19



Federal Communications Commission  
Washington, DC 20554

Informational Notice of Section 106 Filings

Date: 02/27/2019  
Reference Number: 1034222

Tara Kessler, Senior Planner  
City of Keene Planning Department  
3 Washington Street  
Keene, NH 03431

The following new Section 106 filing has been submitted:

FILE NUMBER: 0008534766  
TCNS Number: 181900  
Purpose: Collocation Submission Packet  
Has the Communications Tower or Non-Tower Structure been the subject of SHPO/THPO review? Yes  
Notification Date: 7AM EST 02/21/2019

Applicant: AT&T Mobility, LLC  
Consultant: EnviroBusiness Inc. d/b/a EBI Consulting (EBI 6119000246)  
Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: No  
Site Name: Colonial Mill Marketplace BWE / 10115536 / NH6028  
Site Address: 222 West Street  
Detailed Description of Project: 6119000246 Antenna modification/upgrade on an existing smokestack with no proposed ground disturbance  
Site Coordinates: 42-55-55.0 N, 072-17-14.2 W  
City: Keene  
County: CHESHIRE  
State: NH  
Lead SHPO/THPO: New Hampshire Division of Historical Resources

Consultant Contact Information:  
Name: Sarah Graulty  
Title: Architectural Historian  
PO Box:  
Address: 21 B Street  
City: Burlington  
State: MA  
Zip: 01803  
Phone: (802) 578-7030  
Fax:  
Email: jdavis@ebiconsulting.com

**NOTICE OF FRAUDULENT USE OF SYSTEM, ABUSE OF PASSWORD AND RELATED MISUSE**

Use of the Section 106 system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act and may contain information that is confidential, privileged or otherwise protected from disclosure under applicable laws. Any person having access to Section 106 information shall use it only for its intended purpose. Appropriate action will be taken with respect to any misuse of the system.



January 29, 2019

City of Keene Planning Department  
c/o Ms. Tara Kessler, Senior Planner  
3 Washington Street  
Keene, NH 03431  
(603) 352-5440  
[tkessler@ci.keene.nh.us](mailto:tkessler@ci.keene.nh.us)

Subject: Invitation to Comment  
10115536 / NH6028 / Colonial Mill Marketplace BWE  
222 West Street, Keene, Cheshire County, NH 03431  
EBI Project # 6119000246

Dear Ms. Kessler:

Pursuant to Section 106 of the National Historic Preservation Act, the regulations promulgated thereunder and interagency agreements developed thereto, EBI Consulting, Inc. on behalf of AT&T Mobility, LLC provides this notice of a proposed telecommunications facility installation at the address listed above.

EBI would like to inquire if you would be interested in commenting on this proposed project. Please refer to the attached project plans for complete details regarding this proposed project.

Please note that we are requesting your review of the attached information as part of the Section 106 process only and not as part of the local zoning process. We are only seeking comments related to the proposed project's potential effect to historic properties.

Please submit your comments regarding the proposed project's potential effect on historic properties to EBI Consulting, to my attention at 21 B Street, Burlington, MA 01803 or contact me via telephone at the number listed below. Please reference the EBI project number. We would appreciate your comments as soon as possible within the next 30 days. Please do not hesitate to contact me if you have any questions or concerns about the proposed project.

Respectfully Submitted,



Sarah LeVaun Graulty  
Architectural Historian II  
802-578-7030  
[sgraulty@ebiconsulting.com](mailto:sgraulty@ebiconsulting.com)

Attachments - Drawings and Maps



**Legend**

- ★ Project Site
- Site Radius at 250', 500', 1000' and 1/2 mile

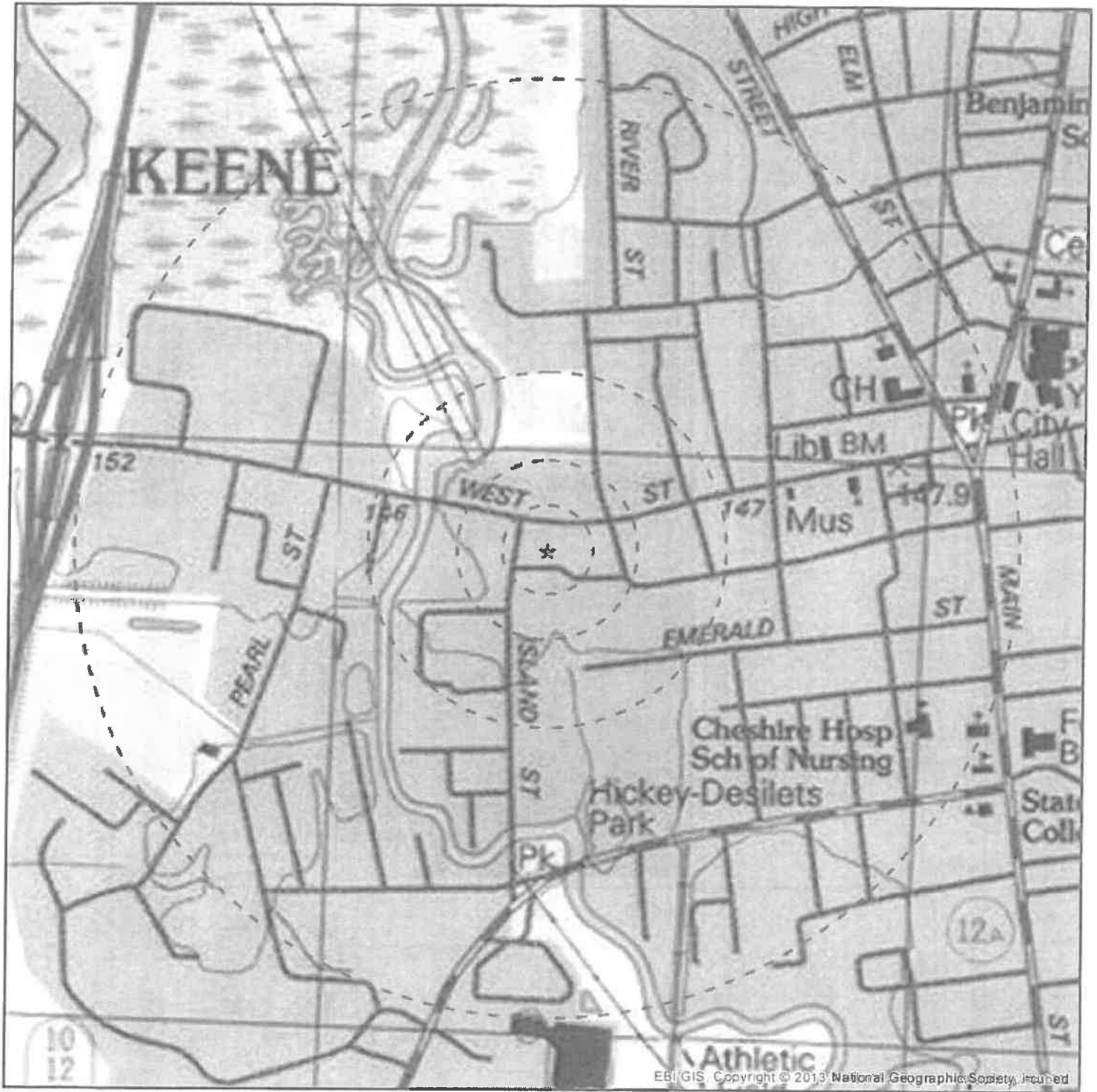
Date: 1/22/2019

**Figure 1: Site Location Map**

**10115536 / NH6028 COLONIAL MILL MARKETPLACE BWE  
 222 WEST STREET  
 KEENE, NH 03431**

PN: 6119000246





**Legend**

- ★ Project Site
- Site Radius at 250', 500', 1000' and 1/2 mile

USGS 24K Quad: Keene, NH.1986

Date: 1/22/2019

**Figure 2 - Topographic Map**

**10115536 / NH6028 COLONIAL MILL MARKETPLACE BWE  
 222 WEST STREET  
 KEENE, NH 03431**

PN: 6119000246



**SITE NUMBER: NH6028**  
**SITE NAME: COLONIAL MILL MARKETPLACE**

222 WEST STREET  
 KEENE, NH 03431  
 CHESHIRE COUNTY  
 PROJECT: LTE BWE  
 FA SITE NUMBER: 10115536  
 PACE ID: MRCTB032643/MRCTB032635  
 STRUCTURE TYPE: SMOKESTACK

**PROJECT INFORMATION**

UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS  
 222 WEST STREET  
 KEENE, NH 03431  
 43° 59' 55.02" N  
 72° 17' 14.17" W  
 NATIONAL, STATE & LOCAL CODES OR ORDINANCES  
 TELECOMMUNICATIONS FACILITY  
 TELECOMMUNICATIONS FACILITY  
 LTE BWE  
 REPLACE EXISTING LTE QUAD ANTENNAS WITH 12 PORT ANTENNAS  
 REPLACE EXISTING LTE AMS IRON WITH 4+2B D960 SWITCH BB TO 3216

**GENERAL NOTES**

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY REPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. REPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSIBLE BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WALKER OR SANITARY SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**LOCUS MAP**



- DURING EXISTENCE FROM 650 CONGRESS ROAD, FRANKLIN, NH  
 1. TURN LEFT ONTO CONGRESS ROAD, FRANKLIN, NH  
 2. TURN LEFT ONTO CONGRESS ROAD, FRANKLIN, NH  
 3. TURN LEFT ONTO CONGRESS ROAD, FRANKLIN, NH  
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 21. TURN LEFT ONTO CONGRESS ROAD, FRANKLIN, NH  
 22. TURN LEFT ONTO CONGRESS ROAD, FRANKLIN, NH

**DIG SAFE SYSTEM, INC.**  
**CALL BEFORE YOU DIG**

**CALL TOLL FREE: 811 OR 888-DIG-SAFE**

**UNDERGROUND SERVICE ALERT**

REV	DRAWING INDEX
1	TITLE SHEET
1	GENERAL NOTES
1	COMPOUND AND EQUIPMENT PLANS
1	ELEVATIONS
1	ANTENNA PLANS
1	DETAILS AND RF SYSTEM SCHEDULE
1	STRUCTURAL DETAILS
1	VENT DETAILS
1	DOOR DETAILS
1	GROUNDING DETAILS AND ONE-LINE DIAGRAM



SITE NUMBER: NH6028

SITE NAME: COLONIAL MILL MARKETPLACE

222 WEST STREET  
 KEENE, NH 03431  
 CHESHIRE COUNTY



**ADVANCED ENGINEERING GROUP, P.C.**  
 222 WEST STREET  
 KEENE, NH 03431  
 CHESHIRE COUNTY  
 (603) 351-1100  
 FAX: (603) 351-1101



NO.	DATE	REVISIONS	BY	CHKD	APP'D
1	10/27/16	ISSUED FOR PERMIT			
2	10/27/16	ISSUED FOR UNDERGROUND			

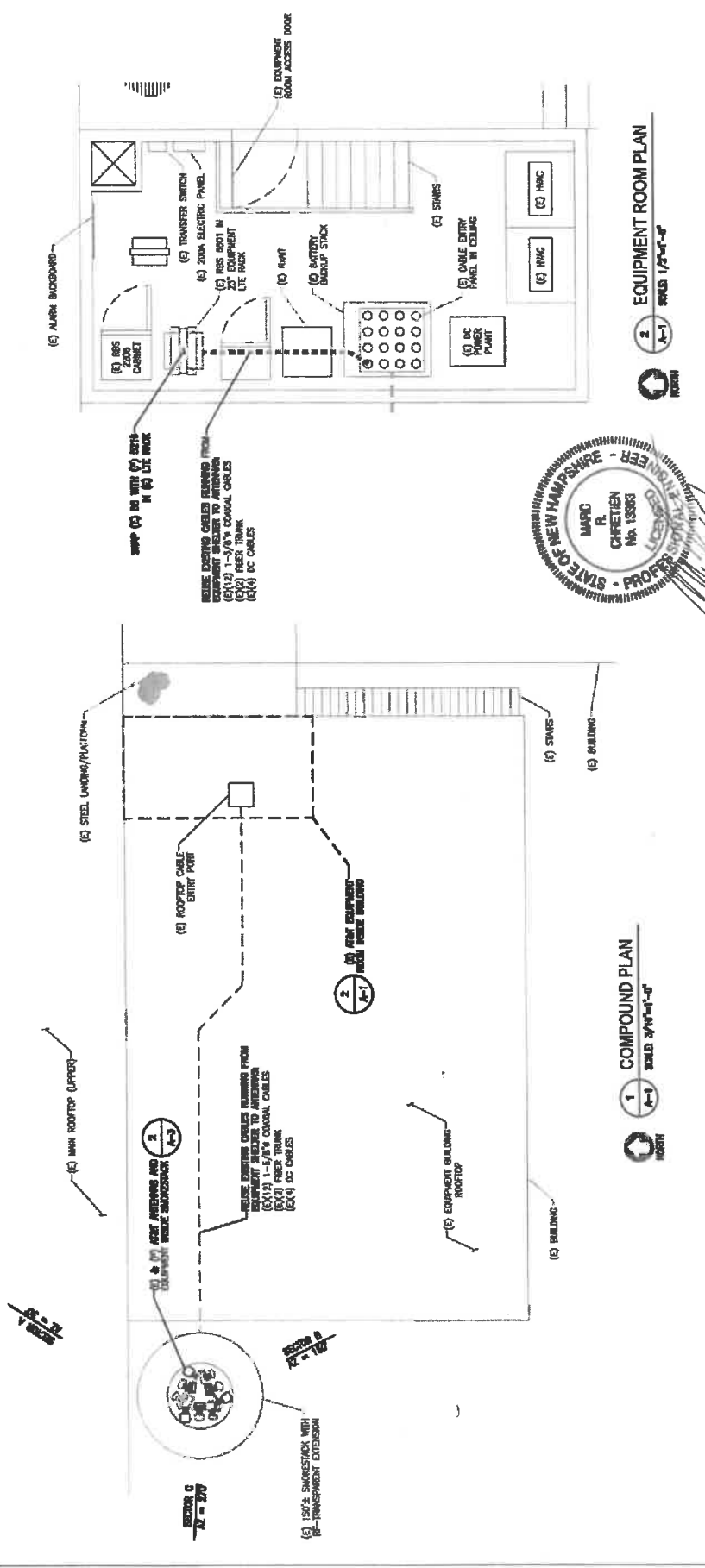
TITLE SHEET

SHEET NO. T-1



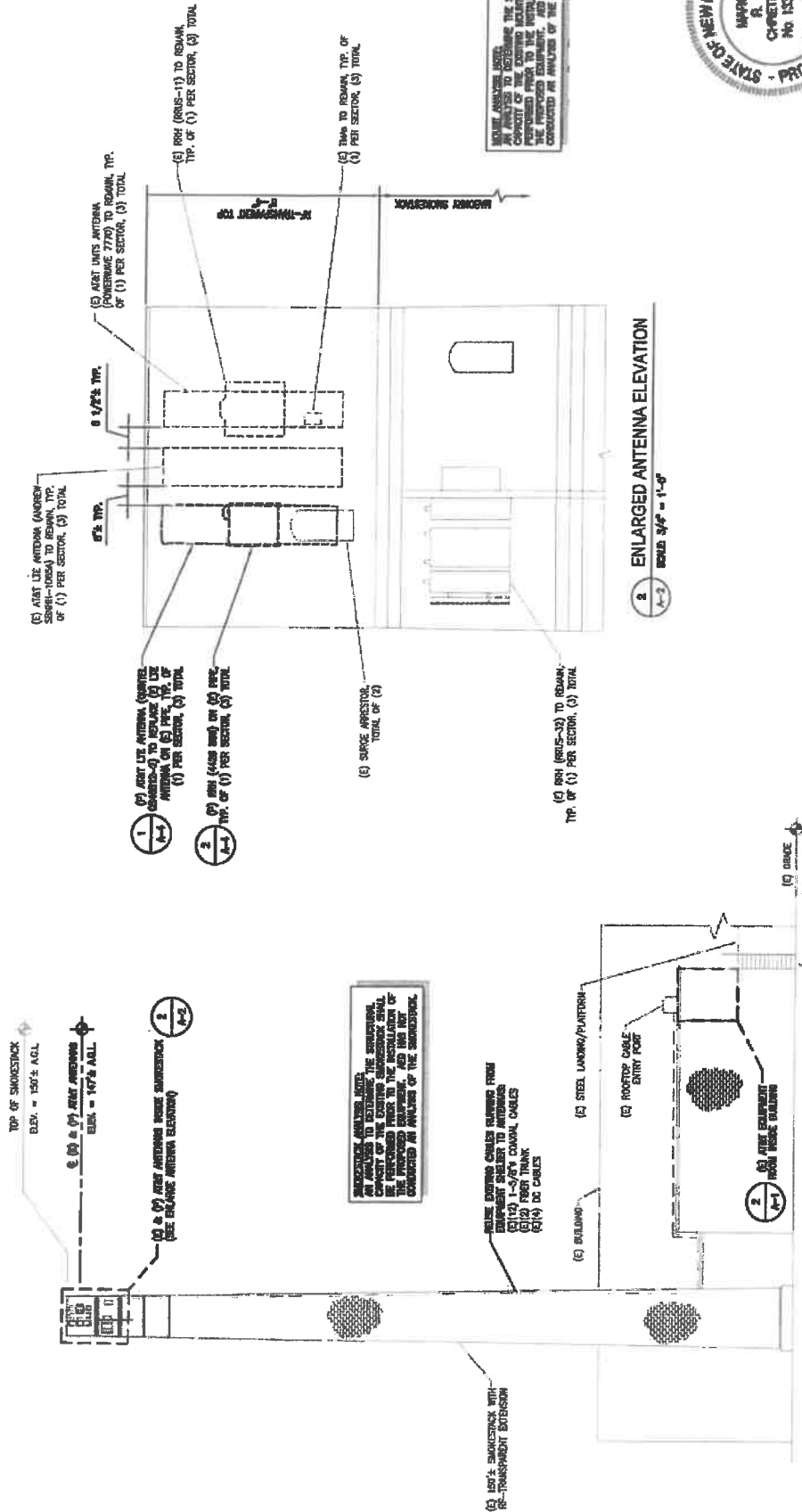


HALF SIZE PRINT  
 AT ALL TIMES UNLESS NOTED



 <b>SAI</b> STATE ADVANCED ENGINEERING GROUP, P.C. 200 North Main Street Concord, NH 03301 Phone: (603) 224-8200 Fax: (603) 224-8201	SITE NUMBER: NH6028 SITE NAME: COLONIAL MILL MARKETPLACE 222 WEST STREET RENEW, NH 03431 CHESHIRE COUNTY	 250 COCCUTT ROAD, SUITE 105 PHARMACIA, MA 01701-0801	NO. DATE 0 12/27/16 1 12/27/16	REVISION REVISION FOR RFP REVISION FOR CONTRACT	SHEET NO. A-1
			COMPOUND AND EQUIPMENT PLANS		

HALF SIZE POINT TO POINT VIEW AS SHOWN AT THE BOTTOM



STRUCTURAL ANALYSIS NOTE:  
AN ANALYSIS TO DETERMINE THE STRUCTURAL CAPACITY OF THE EXISTING MASTING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT, AND HAS NOT BEEN CONDUCTED AS PART OF THE SUBMITTAL.

REMOVE EXISTING CABLE RAYERS FROM EQUIPMENT RIGGING TO ANTENNAS (1) (2) (3) PER SECTOR. (3) TOTAL. (4) 1/2 CABLES. (5) 1/2 CABLES.

(6) BUILDING TO REMAIN TIP OF (1) PER SECTOR, (3) TOTAL.

(7) AIR-TELEPHONE (ANTENNA) TO REMAIN, TIP OF (1) PER SECTOR, (3) TOTAL.

(8) AIR-TELEPHONE (ANTENNA) TO REMAIN, TIP OF (1) PER SECTOR, (3) TOTAL.

6'± TIP

8'± TIP

8'± TIP

HALF SIZE POINT TO POINT VIEW AS SHOWN AT THE BOTTOM

STATE OF NEW HAMPSHIRE PROFESSIONAL ENGINEER LICENSE NO. 13360

STRUCTURAL ANALYSIS NOTE:  
AN ANALYSIS TO DETERMINE THE STRUCTURAL CAPACITY OF THE EXISTING MASTING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT, AND HAS NOT BEEN CONDUCTED AS PART OF THE SUBMITTAL.

REMOVE EXISTING CABLE RAYERS FROM EQUIPMENT RIGGING TO ANTENNAS (1) (2) (3) PER SECTOR. (3) TOTAL. (4) 1/2 CABLES. (5) 1/2 CABLES.

(6) BUILDING TO REMAIN TIP OF (1) PER SECTOR, (3) TOTAL.

(7) AIR-TELEPHONE (ANTENNA) TO REMAIN, TIP OF (1) PER SECTOR, (3) TOTAL.

(8) AIR-TELEPHONE (ANTENNA) TO REMAIN, TIP OF (1) PER SECTOR, (3) TOTAL.

6'± TIP

8'± TIP

8'± TIP

HALF SIZE POINT TO POINT VIEW AS SHOWN AT THE BOTTOM

**SADVANCED**  
ENGINEERING GROUP, P.C.  
200 High Street, Suite 300  
Providence, RI 02903  
Phone: (401) 334-8888  
Fax: (401) 334-8884  
E-mail: info@sadv.com

**SAI**

39 COMMERCIAL STREET  
SUITE 200  
SOUTH BRIDGES  
BRIDGEWATER, MA 01906

**at&t**

550 OQUETTE ROAD, SUITE 13,  
PROVIDENCE, MA 01701-4661

SITE NUMBER: NH6028  
SITE NAME: COLONIAL MILL MARKETPLACE  
222 WEST STREET  
KEENE, NH 03431  
CHESHIRE COUNTY

**1**  
ELEVATION  
SCALE: 3/8" = 1'-0"

NO. OF SECTORS		PER SECTOR		TOTAL	
1	1	1	1	1	1

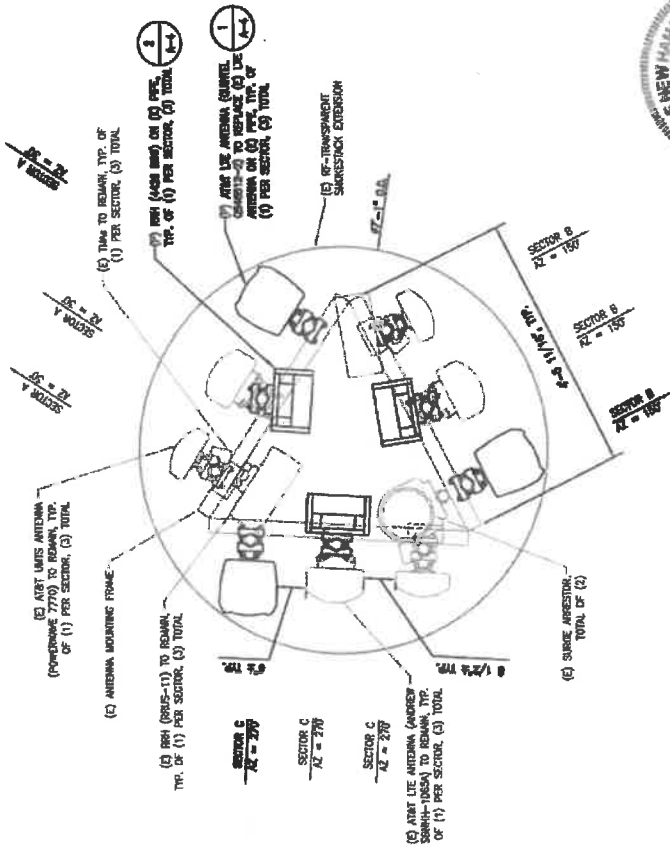
NO. OF SECTORS		PER SECTOR		TOTAL	
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ELEVATIONS

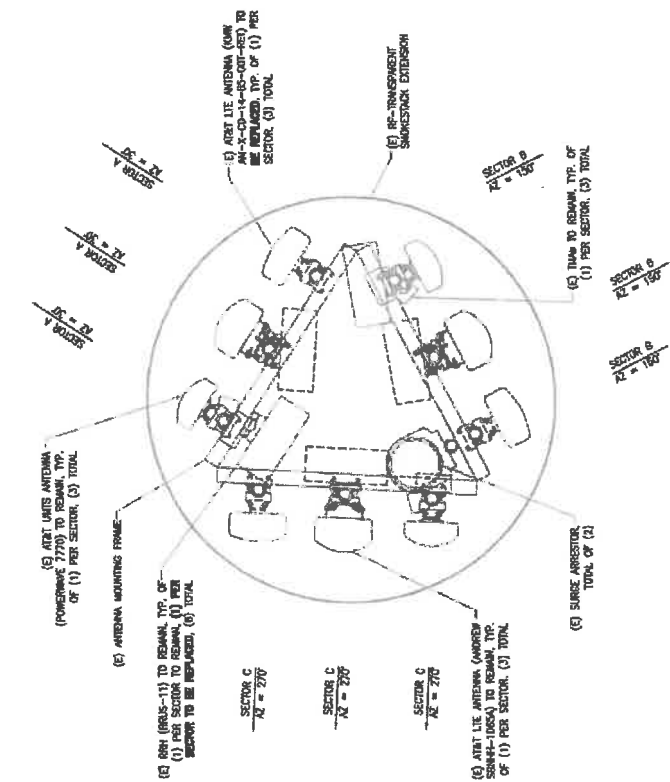
SHEET NO. A-2

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FOR ANY OTHER SIZES

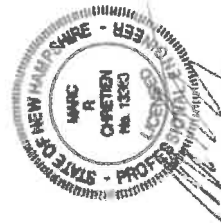
MAINTAIN AN ANTENNA TO REMAIN. ALL ANTENNAS TO BE REMOVED SHALL BE PERMANENTLY REMOVED FROM THE INSTALLATION OF THE EQUIPMENT. SEE FOR NOT CONDUCTED AN ANALYSIS OF THE MOUNT.



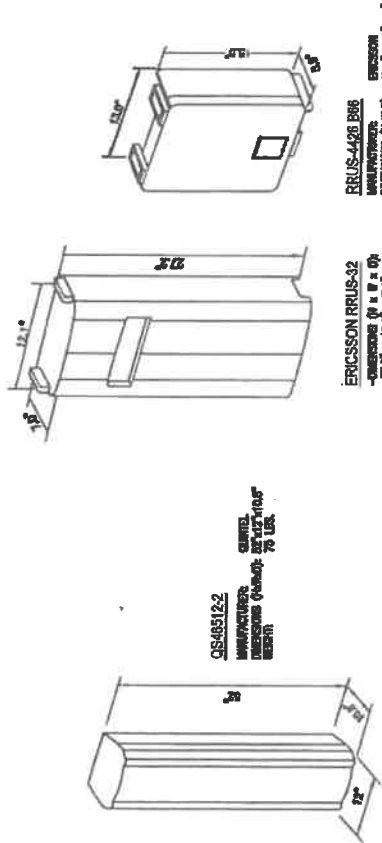
PROPOSED ANTENNA PLAN  
SCALE 1" = 1'-0"



EXISTING ANTENNA PLAN  
SCALE 1" = 1'-0"



		SITE NUMBER: NH6028 SITE NAME: COLONIAL MILL MARKETPLACE 222 WEST STREET KEENE, NH 03431 CHESHIRE COUNTY	
NO.	DATE	REVISION	BY DATE
1	10/01/14	ISSUED FOR BIDDING	AWB/MS
		ISSUED FOR CONSTRUCTION	AWB/MS
		SAI CONSULTING 200 CONNOR ROAD SALEM, NH 03079	
		ADVANCED ENGINEERING GROUP, P.C. 2000 JONES ST. CONNOR RD SALEM, NH 03079 Phone: (603) 882-1100 Fax: (603) 882-1110	
ANTENNA PLANS			SHEET NO. A-3



### RF SYSTEM SCHEDULE

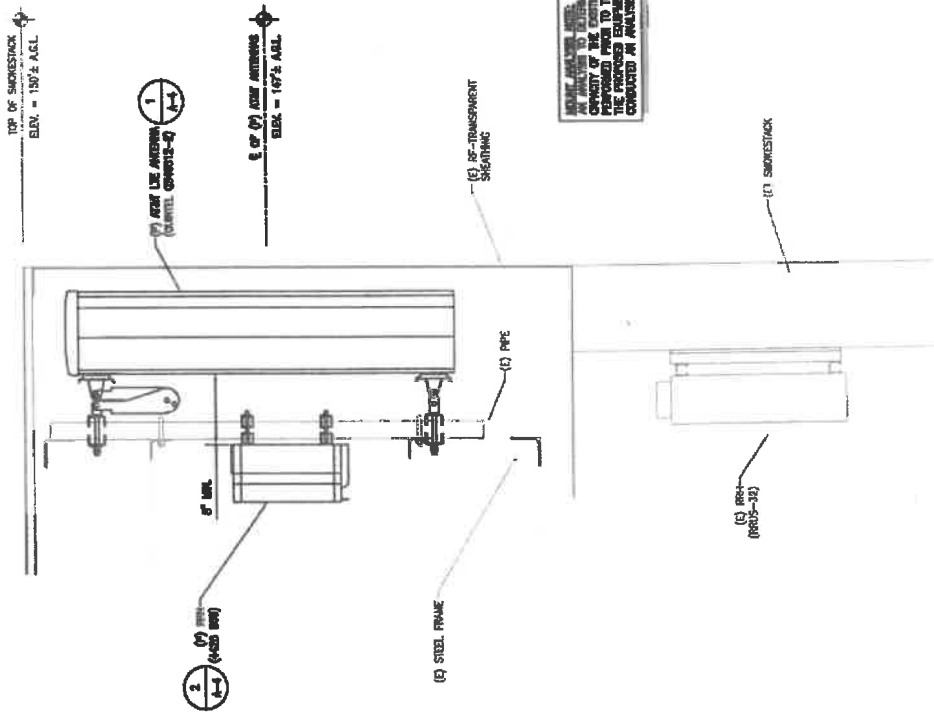
SECTOR	ANTENNA INFORMATION			RRH INFORMATION			TAA & RELAYER INFORMATION			JUMPER INFO.	
	POSITION	STATUS	MODEL	ASB/FT	SEP GTH (ASLL)	STATUS	MODEL	STATUS	MODEL	QUANTITY	FEEDER
ALPHA	I-A	EXISTING	7770	37	145'	EXISTING	RRUS-11	DA WARRING, MA	RRUS-11	2	-
	I-B	EXISTING	SWH-1000A	37	145'	EXISTING	RRUS-32	DA WARRING, MA	RRUS-32	-	1
	II-A	PROPOSED	GS4812-2	37	145'	EXISTING, PROPOSED	RRUS-11, 442B B86	-	-	-	1
	II-B	-	-	-	-	-	-	-	-	-	-
BETA	I-B	EXISTING	7770	107	145'	EXISTING	RRUS-12	DA WARRING, MA	RRUS-12	2	-
	I-C	EXISTING	SWH-1000A	107	145'	EXISTING	RRUS-32	DA WARRING, MA	RRUS-32	-	1
	II-B	PROPOSED	GS4812-2	107	145'	EXISTING, PROPOSED	RRUS-11, 442B B86	-	-	-	1
	II-C	-	-	-	-	-	-	-	-	-	-
GAMMA	I-C	EXISTING	7770	279	145'	EXISTING	RRUS-12	DA WARRING, MA	RRUS-12	2	-
	I-D	EXISTING	SWH-1000A	279	145'	EXISTING	RRUS-32	DA WARRING, MA	RRUS-32	-	1
	II-C	PROPOSED	GS4812-2	279	145'	EXISTING, PROPOSED	RRUS-11, 442B B86	-	-	-	1
	II-D	-	-	-	-	-	-	-	-	-	-

\* CONTRACTOR TO VERIFY FINAL REFS PRIOR TO CONSTRUCTION

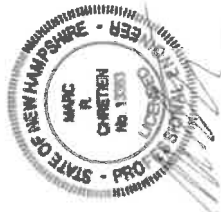


 500 West Street Keene, NH 03501 Tel: (603) 344-8200 Fax: (603) 344-8200	 50 COMMERCIAL RD COLONIAL MILLS SALEM, NH 03079	 650 COMMERCIAL ROAD, SUITE 13, PHARMACIAL, MA 01701-4881	SITE NUMBER: NH-6028 SITE NAME: COLONIAL MILL MARKETPLACE 500 WEST STREET KEENE, NH 03501 CHESHIRE COUNTY
REVISIONS NO. DATE 1 12/27/16 2 02/17/16		BY: [ ] DATE: [ ]	SHEET NO. <b>A-4</b>

HALF SIZE PRINT  
THIS DRAWING IS AVAILABLE  
AT 1/4" = 1'-0" FOR POWER STAKE



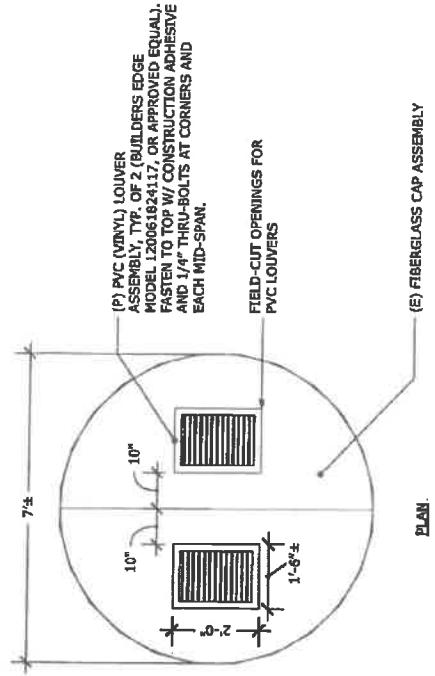
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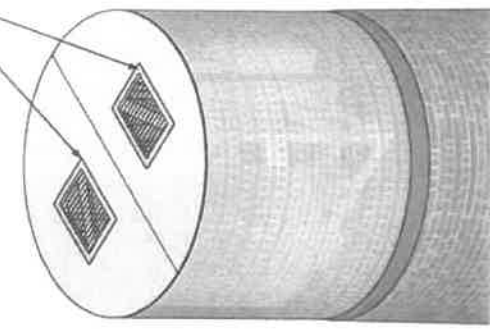
1 MOUNTING DETAIL  
SCALE: 1/4" = 1'-0"

 550 COCKSHUTT ROAD, SUITE 1.3. FRAMINGHAM, MA 01701-4081	NO. 1 DATE 10/27/18	REVISION 1. REVISED FOR REVIEW 2. ISSUED FOR CONSTRUCTION	BY DATE	STRUCTURAL DETAILS	SHEET NO. S-1
	SITE NUMBER: NH6028 SITE NAME: COLONIAL HILL MARKETPLACE 222 WEST STREET KEENE, NH 03431 CHESHIRE COUNTY	 400 CONSUMERS 13 INDUSTRIAL WAY SALEM, NH 03079	 ADVANCED ENGINEERING GROUP, P.C. 200 North Berwick Berwick, NH 03307 Tel: (603) 354-3400 Fax: (603) 354-3401		

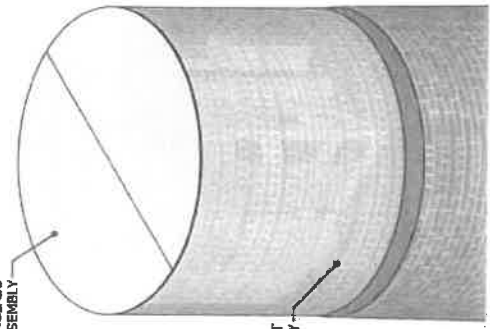
(P) PVC (VINYL) LOUVER ASSEMBLY, TYP. OF 2 (BUILDERS EDGE MODEL 120061824117, OR APPROVED EQUAL), FASTEN TO TOP W/ CONSTRUCTION ADHESIVE AND 1/4" THRU-BOLTS AT CORNERS AND EACH MID-SPAN.



2 CONCEALMENT VENT PLAN  
Scale: 3/8"=1'-0"



PROPOSED



EXISTING

(E) FIBERGLASS CAP ASSEMBLY

(E) CONCEALMENT ASSEMBLY

1 CONCEALMENT VENT ISOMETRIC  
Scale: NTS



**EGADVANCED**  
ENGINEERING GROUP, P.C.  
Professional Seal No. 13383  
State of New Hampshire



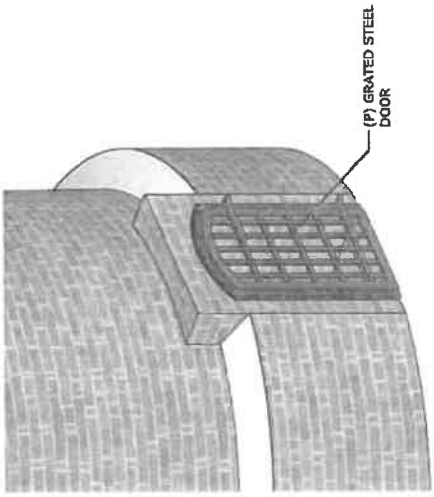
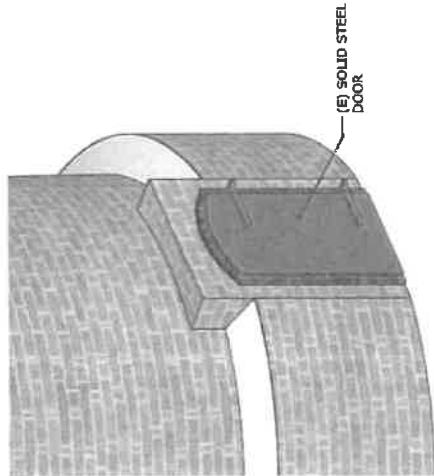
SAI CONSULTING INC.  
12 INDUSTRIAL WAY  
SALEM, NH 03079

**SITE NUMBER: NH6028**  
**SITE NAME: COLONIAL MILL MARKET**  
222 WEST STREET  
KEENE, NH 03401  
CHESHIRE COUNTY



NO.	DATE	REVISIONS
1	02/17/18	ISSUED FOR REVIEW
2	02/21/18	ISSUED FOR CONSTRUCTION

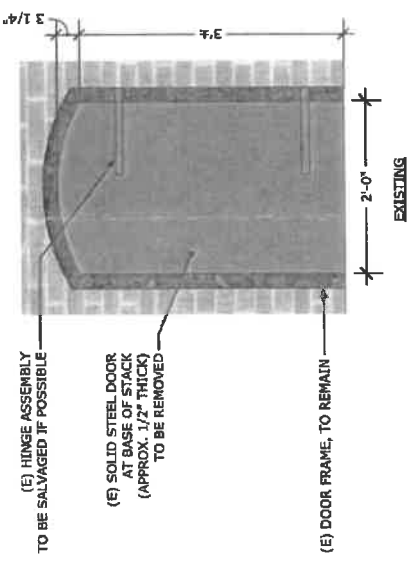
**VENT DETAILS**  
SHEET NO: **S-2**



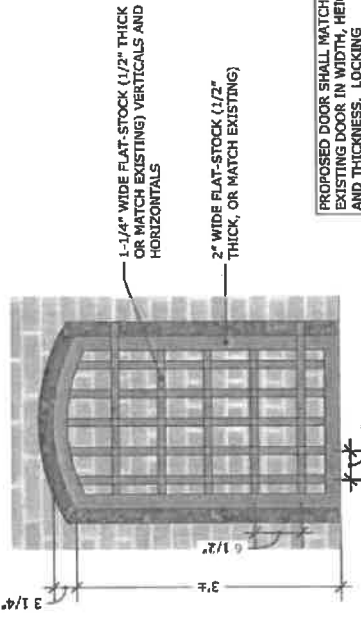
**EXISTING**

**1 BASE DOOR ISOMETRIC**  
Scale: NTS

**PROPOSED**



**2 BASE DOOR ELEVATION**  
Scale: 3/4"=1'-0"



PROPOSED DOOR SHALL MATCH EXISTING DOOR IN WIDTH, HEIGHT, AND THICKNESS. LOCKING MECHANISM AND HINGES SHALL BE RE-USED, IF POSSIBLE. SPACING OF HORIZONTAL MEMBERS SHALL COINCIDE WITH HINGE LOCATIONS



**ADVANCED ENGINEERING GROUP, P.C.**  
200 North Main Street  
Keene, NH 03431  
Phone: (603) 351-5000  
Fax: (603) 351-5001



SAY COMMUNICATIONS  
12 INDUSTRIAL WAY  
SALEPH, NH 03079

**SITE NUMBER: NH6028**  
**SITE NAME: COLONIAL MILL MARKET**  
223 WEST STREET  
KEENE, NH 03431  
CHESHIRE COUNTY

NO.	DATE	REVISIONS	BY	CHK
1	02/21/18	ISSUED FOR EXISTING	AAA	AKC
1	02/21/18	ISSUED FOR CONSTRUCTION	AAA	AKC

**DOOR DETAILS**

SHEET NO. **S-3**







Please mail the completed form and required material to:

New Hampshire Division of Historical Resources  
State Historic Preservation Office  
Attention: Review & Compliance  
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED

JUL 09 2018

DHR Use Only	9876
R&C #	
Log In Date	___/___/___
Response Date	___/___/___
Sent Date	___/___/___

## Request for Project Review by the New Hampshire Division of Historical Resources

- This is a new submittal  
 This is additional information relating to DHR Review & Compliance (R&C) #:

### GENERAL PROJECT INFORMATION

Project Title Woodward Dam Improvements

Project Location Woodward Pond, Woodward Pond Road

City/Town Town of Roxbury Tax Map 403 Lot # 7, 8, 24, 25, 26

NH State Plane - Feet Geographic Coordinates: Easting -8034880.9 Northing 5304110.8  
 (See RPR Instructions and R&C FAQs for guidance.)  
*847205* *165246 NH State Plane Feet* *Default Coordinates*

Lead Federal Agency and Contact (if applicable) USACE  
 (Agency providing funds, licenses, or permits)  
 Permit Type and Permit or Job Reference # PGP

State Agency and Contact (if applicable) NHDES Dam Bureau and Wetland Bureau  
 Permit Type and Permit or Job Reference # Dam and Wetlands

### APPLICANT INFORMATION

Applicant Name City of Keene Contact: Kurt Bloomquist

Mailing Address 350 Marlborough Street Phone Number 603-352-6550

City Keene State PA Zip 03431 Email kbloomquist@ci.keene.nh.us

### CONTACT PERSON TO RECEIVE RESPONSE

Name/Company David H. Graff, Gannett Fleming, Inc. (GF)

Mailing Address 207 Senate Ave Phone Number 717-763-7212

City Camp Hill State PA Zip 17011 Email dgraff@gfnet.com

This form is updated periodically. Please download the current form at [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review). Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review) or contact the R&C Specialist at [christina.st.louis@nh.gov](mailto:christina.st.louis@nh.gov) or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION **9876**

**Roxbury**

Project Boundaries and Description

- Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) *indicating the defined project boundary. (See RPR Instructions and R&C FAQs for guidance.)*
- Attach a detailed narrative description of the proposed project.
- Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1** or within project narrative description. *(Blank table forms are available on the DHR website.)*  
File review conducted on \_\_\_\_ / \_\_\_\_ / \_\_\_\_.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area?  Yes  No  
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- Photographs of *each* resource or streetscape located within the project area, with captions, along with a photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity?  Yes  No  
If yes, submit all of the following information:

- Description of current and previous land use and disturbances.
- Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

**DHR Comment/Finding Recommendation This Space for Division of Historical Resources Use Only**

- Insufficient information to initiate review.  Additional information is needed in order to complete review.
- No Potential to cause Effects  No Historic Properties Affected  No Adverse Effect  Adverse Effect

Comments: Please contact the DHR to discuss mitigation ideas and to develop a Memorandum of Agreement.

Please provide a SASE each time you anticipate a response from this office.  
*If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.*

Authorized Signature: Nadri Melina DS HPO Date: 12/12/18



*Excellence Delivered **As Promised***

October 31, 2018

**CERTIFIED MAIL NO. 7008 0150 0000 5983 7171**  
**RETURN RECEIPT REQUESTED**

New Hampshire Division of Historical Resources  
State Historic Preservation Office  
Attention: Review & Compliance  
19 Pillsbury Street  
Concord, NH 03301-3570

**RE: Review and Compliance No. 9876**  
**New Hampshire Inventory Form**  
**Woodward Dam Improvements**  
**Town of Roxbury, Cheshire County, New Hampshire**

Dear Reviewer:

On July 5, 2018, Gannett Fleming, on behalf of the City of Keene, submitted our initial Request for Project Review for the Woodward Dam Improvements Project. On July 18, 2018 your office replied with a request that a qualified Architectural Historian complete the New Hampshire Inventory Form for the project and assigned R&C No. 9876.

As requested, we are submitting the New Hampshire Division of Historical Resources Inventory #ROX0006, Individual Inventory Form for the Woodward Dam Improvements Project. This form was completed by Public Archaeology Laboratory, Inc., Stephen A. Olausen, a qualified Architectural Historian under 36 CFR 61. The following enclosures are provided for your review and comment.

- Enclosure 1: NHDHR Inventory #ROX0006 – Individual Inventory Form
- Enclosure 2: Original Photographs

The project will be submitting a Wetlands Permit Application to the New Hampshire Department of Environmental Services, Water Division, Wetlands Bureau Land Resource Management. The proposed improvements to Woodward Dam are required by the NHDES Dam Bureau pursuant to their Letter of Deficiency, dated March 8, 2016. In summary, the dam is not able to meet the required flood event without risk of overtopping. The proposed improvements directly address the NHDES concerns and maintain the purpose and function of the dam. Please respond to my attention at the address below using the provided self-addressed and stamped envelope. Your written response will be included in the project required permit applications and authorizations.



We look forward to our continued coordination. Thank you in advance for your time in performing this review.

Sincerely,

A handwritten signature in black ink, appearing to read "David H. Graff", written over a light gray rectangular background.

David H. Graff, PWS, CSE, CWB  
Senior Environmental Scientist  
GANNETT FLEMING, INC.

Enclosures – as noted

cc: Chad Hoover, P.E.  
File 062745

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

**Name, Location, Ownership**

- 1. Historic name Woodward Pond Dam
- 2. District or area Does not apply
- 3. Street and number 0.5 mi north of Dillingham Rd and Woodward Pond Rd intersection
- 4. City or town Roxbury
- 5. County Cheshire
- 6. Current owner City of Keene

**Function or Use**

- 7. Current use(s) Water supply
- 8. Historic use(s) Water supply

**Architectural Information**

- 9. Style Other – Earthen and concrete dam
- 10. Architect/builder City of Keene
- 11. Source Annual Report, 1912
- 12. Construction date 1910
- 13. Source Original Construction Plans
- 14. Alterations, with dates Riprap bank reinforcement, 2010
- 15. Moved? no  yes  date: \_\_\_\_\_

**Exterior Features**

- 16. Foundation Other - Bedrock
- 17. Cladding Does not apply
- 18. Roof material Does not apply
- 19. Chimney material Does not apply
- 20. Type of roof Does not apply
- 21. Chimney location Does not apply
- 22. Number of stories Does not apply
- 23. Entry location Does not apply
- 24. Windows Does not apply  
Replacement? no  yes  date: \_\_\_\_\_

**Site Features**

- 25. Setting Forest/wilderness
- 26. Outbuildings Does not apply
- 27. Landscape features Pond and stream; concrete abutment; stone foundations



- 35. Photo #1 Direction: East
- 36. Date October 3, 2018
- 37. Reference (file name or frame#): ROX0006-01

- 28. Acreage 109
- 29. Tax map/parcel # Map 403, Parcels 7 and 25
- 30. State Plane Feet (NAD83) 847,213.601; 165,197.402
- 31. USGS quadrangle and scale Marlborough, NH 1:24,000

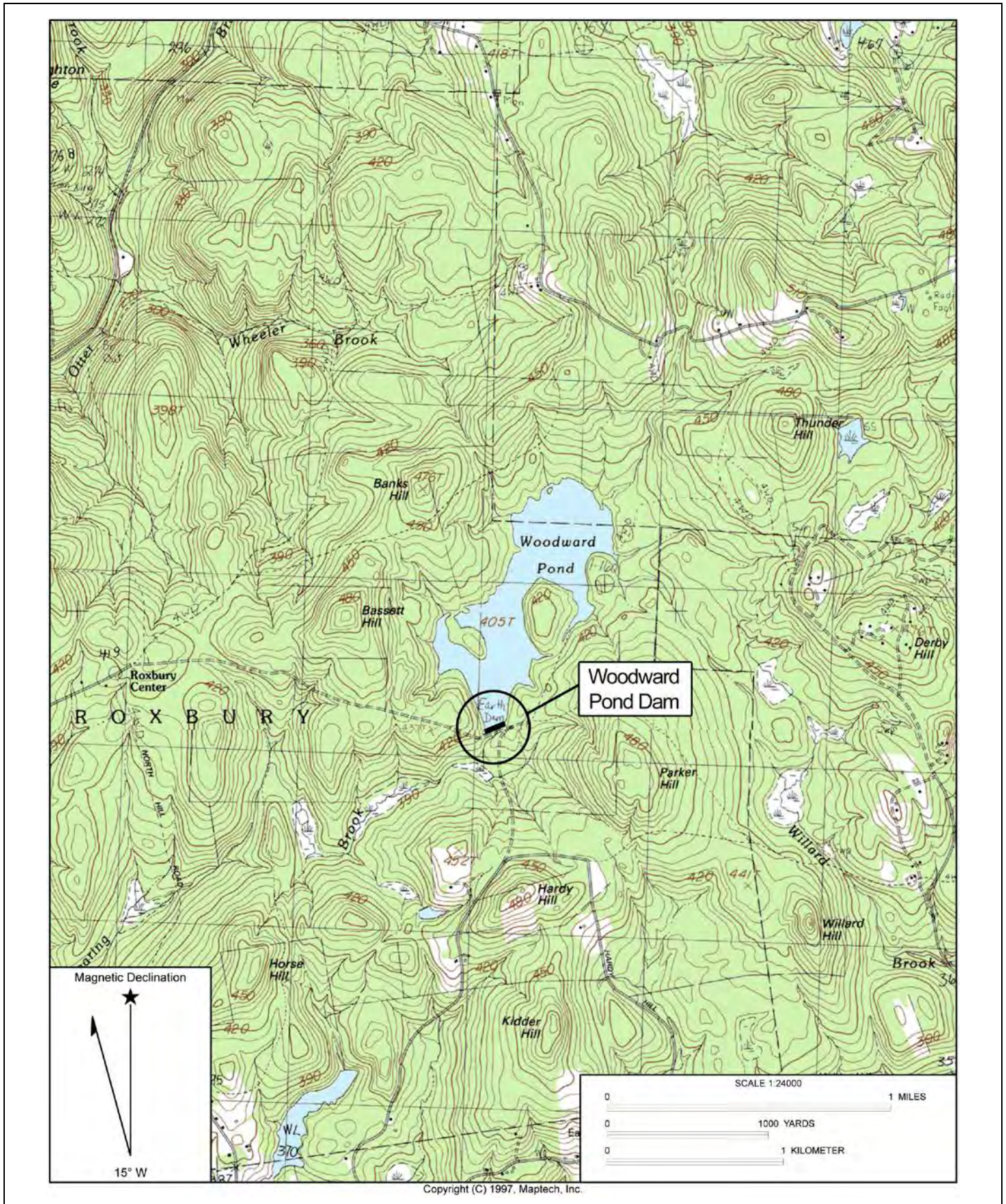
**Form prepared by**

- 32. Name Charles Hartfelder, Emily Giacomarra
- 33. Organization The Public Archaeology Laboratory, Inc.
- 34. Date of survey October 3, 2018

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

**39. LOCATION MAP:** Woodward Pond Dam on the USGS Marlborough, NH, 1:24,000 Quadrangle (1997).

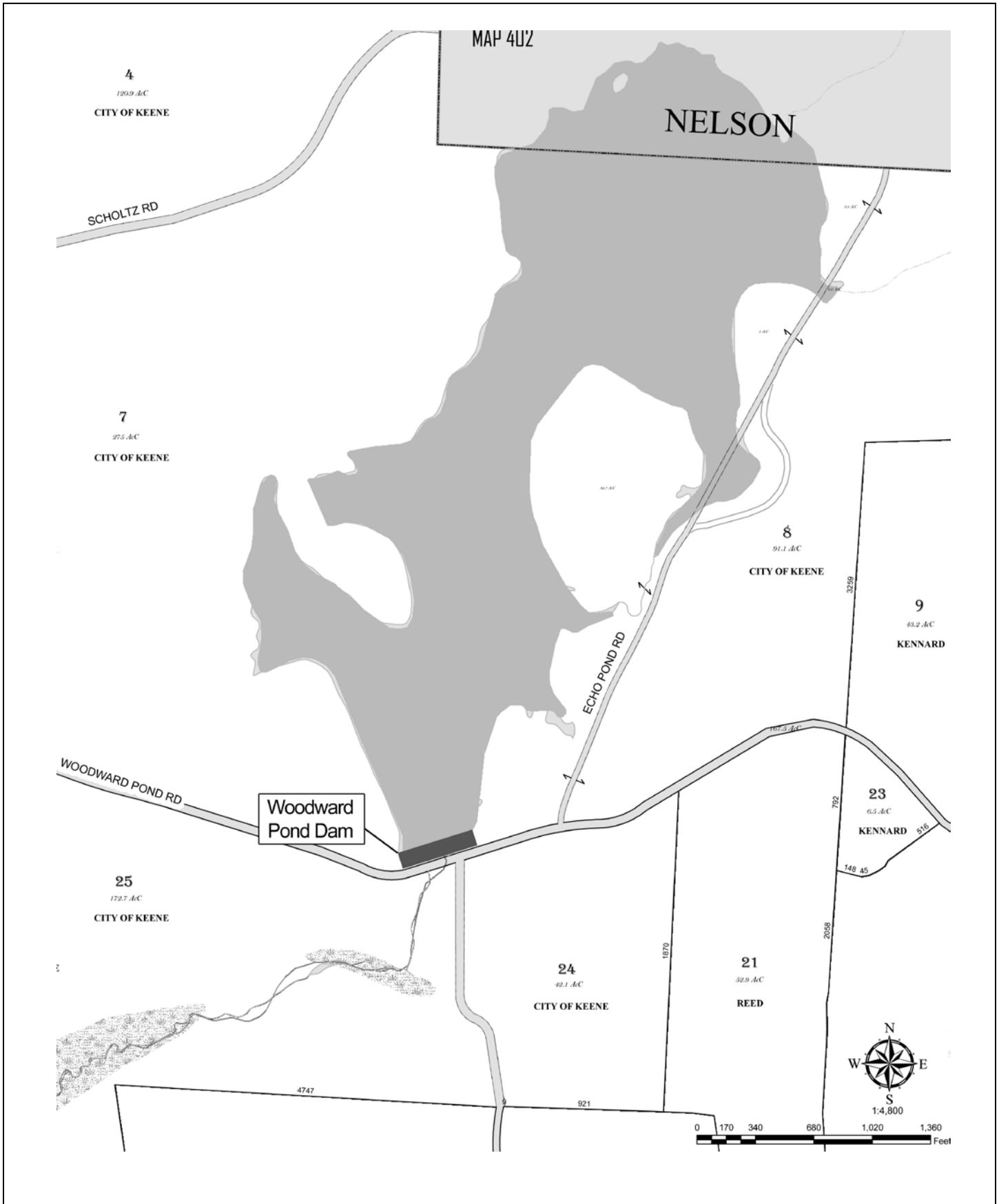




**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

**40. PROPERTY MAP:** Sketch plan of the Woodward Pond Dam and associated parcels.





**41. Historical Background and Role in the Town or City's Development:**

**Site History**

The land surrounding the Woodward Pond Dam (NH Dam #206.01), encompassing parts of Nelson, Marlborough, and Keene in Cheshire County, NH, was first settled in the mid-eighteenth century. The first documented owner of Woodward Pond was John Brown of Packersfield (later renamed the Town of Nelson). Before 1800, Josiah Woodward (1766–1848) of Worcester, MA, acquired the land around the pond from Brown and moved to Cheshire County. In 1806, Woodward developed a farmstead at the outlet of what became known thereafter as Woodward Pond (Griffin 1904:568; NH Bureau of Vital Records 1947; Rousmaniere 2018).<sup>1</sup> In addition to his farming pursuits, Woodward reportedly drilled and blasted out the channel that still exists south of the pond at the outlet to Roaring Brook and erected the first saw and grist mill in the area (Child 1885:381). By the 1850s, several mill privileges had been erected along Roaring Brook in the south part of Roxbury (Child 1885:378; Smith & Morley 1858; Figure 1).

By 1858, Josiah Woodward's wife, Sally, sold the mill and farm to their youngest son, Joseph A. Woodward (1829–1902) (Child 1885:381; Smith & Morley 1858; US Federal Census 1860). Joseph A. Woodward co-managed the milling operation with Calvin Hastings (b.1818) (see Figure 1). At that time, the dam privilege comprised an earthen dam and at least two mill buildings (see Figure 1). The mill was centered on the channel dug near the southern edge of the pond that was covered by a masonry culvert, and a spillway was approximately 100 feet (ft) to the east (Figures 2–5), and existed above ground until at least 1887.<sup>2</sup>

Field inspection and a review of historical plans and photographs indicates that in 1901 the site included a wheel pit at the channel or sluice, which may have supported an 8-ft-diameter wooden wheel, and at least two interconnected mill buildings south of the dam on the west side of Roaring Brook (see Figure 2). By 1903, an additional structure is shown over the wheel pit, possibly a former wheel house (see Figure 3). The foundations of two mill buildings and the wheel pit survive in the landscape. In 1901, at least two other buildings were immediately west of the dam on and near the centerline of the new dam constructed in 1910, and portions of their foundations may survive belowground (see Figures 2, 9).

**City of Keene Land Purchases and Dam Construction**

The need for a reliable water supply to fight fires and supply industrial operations became a common subject of debate at Keene town meetings in the mid-nineteenth century. The first action was taken in 1860 when the town voted that "it is expedient to introduce into the compact part of the Town a supply of water for the extinguishment of fires" (Griffin 1904:529). Although a committee was appointed to study the issue, the urgency to improve the water supply did not occur until a devastating fire ravaged Keene's Central Square area in 1865. Two years later, the town voted to purchase Goose Pond, approximately 2.5 miles north of the square and issued bonds for a loan of \$75,000 to construct an aqueduct system. The following year, the Keene Water Works Department was formally established and took charge of overseeing the town's water needs (Griffin 1904:529, 533; City of Keene 1940:2; NH Laws 1868, Ch. 65).

Keene's rapid growth in the 1870s and 1880s required further expansion of its water system. On June 11, 1886, the city<sup>3</sup> purchased the 108-acre Woodward Pond in neighboring Roxbury and soon after constructed an octagonal reservoir on nearby Beech Hill in Keene (NH Laws 1885, Ch. 181; Griffin 1904:689; City of Keene 1940:16).

On October 1, 1886, Joseph A. and Rachel C. Woodward (1833–1905) granted the City of Keene the privilege to lay a water pipe and fixtures on land they owned near the road from Keene to Roxbury (now known as Middletown Road), 2.4 miles west of Woodward Pond (Cheshire County Registry of Deeds [CCRD] 1886b). From this point, water Roaring Brook was carried by a pipe to the Quarry Dam reservoir, approximately 2 miles southwest of Woodward Pond, and then to the octagonal reservoir at Beech Hill where it connected with the city's water system (Griffin 1904:552). That same year, the city began purchasing land around Woodward Pond and, by 1912, owned the pond and 826 acres (CCRD 1886a, 1887b, 1887a, 1901a, 1901c, 1901d, 1902a, 1902b, 1902c; Figure 6). The Woodward property and its associated residential and mill buildings were acquired by the city from Elisha O. Woodward in 1887, and the mill buildings were likely taken down shortly after (CCRD 1887b). The largest single purchase out of the 826 total acreage was 600 acres acquired from Charles

<sup>1</sup> This area was a part of Marlborough until 1805, of Nelson in 1806, and finally of Roxbury before 1813 (Child 1885:381). The Town of Roxbury was incorporated in 1812.

<sup>2</sup> The "Woodward Mill" is mentioned in an 1887 deed to the City of Keene, incorporated as a city in 1874, from Elisha O. Woodward though Elisha Woodward's relationship with Josiah Woodward and his family is unknown (CCRD 1887b).

<sup>3</sup> Keene was incorporated as a city in 1874.

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

Giffin for \$2,500 in 1901 (CCRD 1901b). Another dam, known as Stone Dam, was built in 1902 approximately 2 miles downstream from Quarry Dam. This new dam created an additional reservoir to supply the city (City of Keene 1912a:213; 1940:5; Rousmaniere 2018).

On June 2, 1910, the Keene City Council voted to build a new dam (the extant Woodward Pond Dam) at Woodward Pond, to serve as the new primary water source for the city and to replace the earlier system that drew from Goose Pond (City of Keene 1912a:10, 214; 1940:5).<sup>4</sup> The city appropriated \$6,000 for the project, and the dam was constructed from June 27 to October 19, 1910 (Figures 8–10). Its construction was supervised by Paul F. Babbidge, Superintendent of Water Works, and Samuel Wadsworth, Engineer, both of Keene, and made use of an approximately 9-ft-tall trapezoidal concrete core that is 22-inch (in)-wide at the top and 5 ft wide at its base, which was founded on bedrock (see Figures 2, 5). This core was covered with earthen and rock fill and then paved with 6- to 8-in stones on its north (impoundment-facing) side, which created a larger trapezoidal profile. The south side of the dam has a steeper angle than the north side to create space for Woodward Pond Road to be moved approximately 15 ft to the south. The former sluice channel was replaced with an iron intake pipe accessible from a small, covered manhole located in the latitudinal center of the dam. The outlet for the former overflow channel was completely filled in and replaced by a spillway at the extreme east end of the new dam, and the new spillway outlet followed a new route to the southeast before joining the preexisting overflow channel about halfway down the length of the dam. The final cost for the dam's construction was \$5,950.62 with an additional \$20.00 paid in 1911 for supplies and labor (City of Keene 1912a:212; 1940:6).

The new dam ensured that Keene would have "an adequate and healthful supply of water sufficient for all purposes for a long time" (City of Keene 1912a:10). Between December 1910 and December 1911, the recorded water level at Woodward Pond rose from 1 ft 5 in to 8 ft 6.5 in. The water supply from Goose Pond was shut off in December 2011, and "all water consumed in the city [was being] taken from the Roaring Brook system" (City of Keene 1912a:214). The city made improvements to the pipe extraction system to assist with municipal water demands, leaving the earlier pipe to supply residential needs. The NH Water Resources Board inspected the dam in 1972 and two small cracks (west abutment at the spillway, and near the downstream sluice outlet) were repaired (US Army Corps of Engineers 1981).

**42. Applicable NHDHR Historic Contexts** (please list names from appendix C):

90. Water supply, distribution, and treatment in New Hampshire, 1850–present.

**43. Architectural Description and Comparative Evaluation:**

**Description**

The Woodward Pond Dam is a concrete and earthen diaphragm-type dam constructed in 1910 by the City of Keene's Water Works Department. The dam is located at the south end of Woodward Pond (also known as Echo Lake), a 108-acre impoundment owned and managed by the City of Keene. The dam is accessed from the south or west via Woodward Pond Road. A former road to Nelson, NH, is located near the east side of the dam.

The dam is 476 ft long (including a 25-ft open-channel spillway at the east end) and 45 ft wide. At its simplest cross-sections, it consists of a trapezoidal concrete core or diaphragm 22 in wide at the top, approximately 9.5 ft tall, and 5 ft wide at the base, which contains approximately 600 cubic yards of concrete set on bedrock. The core is covered by 3,500 cubic yards of earth and rock fill, measuring 16 ft wide at the top and sloped at 65 degrees (2:1) on the north, (impoundment-facing) side and 55 degrees (1.5:1) on the south side. The north side is paved with 6- to 8-in stones. Woodward Pond Road runs at the base of the dam on the south side and bends southward after crossing a small, cut-granite bridge over the spillway channel. The spillway at the east end consists of stone paving set in cement with two crests each approximately 6 in high. The spillway is flanked by two trapezoidal, formed concrete wingwalls approximately 2 ft wide (east–west dimension). The western (river right) wingwall is curved westward at the south end to promote waterflow down the spillway channel. The spillway runs approximately 300 ft from the east end of the dam to where it rejoins Roaring Brook and is supported on either side by riprap.

A 20-in-diameter pipe or sluice runs through the base of the concrete core from the impoundment to the surviving wheel pit of the Woodward saw and grist mill. The intake for the pipe is approximately 100 ft from the western end of the dam at the center of a semicircular extension into the impoundment. Several 3-x-3-ft concrete blocks are around the intake, presumably

---

<sup>4</sup> The City of Keene referred to Woodward Pond as Echo Lake in maps and documentation from 1901 to 1912 (see Figures 2–6).

to prevent blockage. There are two stopping mechanisms for the sluiceway: one in a concrete gate well accessed from a small, covered manhole, and the other at the impoundment side of the dam. The outlet is set in dry-laid, cut-granite slabs that support Woodward Pond Road above.

The foundation walls of the Woodward saw and grist mill are on the south side of the dam on both sides of the spillway and sluiceway and are constructed of 8- to 9-ft-high dry-laid fieldstone. The foundation remains of two former mill buildings measure 13 ft by at least 10 ft and 13-x-16 ft, and a former wheel pit is approximately 6-x-10 ft. The smaller of the two foundations was likely cut off when Woodward Pond Road was rerouted approximately 15 ft to the south in 1910. The foundation of the larger building includes the remains of a return wall on its east side.

In September 2010, the City of Keene laid a new riprap barrier for the dam's spillway and new riprap boundaries for a terraced area southwest of the dam. Riprap was also laid in the area of the former mill buildings, partially concealing historic stonework near the confluence of the sluice and overflow channels (Photographs courtesy City of Keene).

### **Comparative Water Supply Dams**

The Woodward Pond Dam is a typical example of an early twentieth-century earthen embankment dam (the most common form for dams) with a concrete diaphragm. The dam follows a similar design to that of the earlier Goose Pond Dam, replacing the stone and concrete core used at Goose Pond with a solely concrete core. This particular form of dam designed for water supply purposes was repeated within the Keene water supply system and several times throughout New Hampshire. By 1921, the City of Keene's water supply-related holdings comprised 1,800 acres (The American City 1921:353). In 1931, a final dam on Roaring Brook was constructed at Babbidge Reservoir (NH Dam #206.03), 2.8 miles downstream (Rousmaniere 2018).

The design of the Babbidge Dam is nearly identical to that of the Woodward Pond Dam with a spillway at river left, the only difference being that the newer Babbidge Dam's dual intake pipes (1-ft-4-in and 1-ft-8-in in diameter) pass under a gatehouse and through the dam from the impoundment to a single downstream outlet (2 ft in diameter) (Figure 7). Similar designs and configurations were used for the Tower Hill Pond Dam in Auburn (NH Dam #13.01), constructed in 1936 (NH Fish and Game Department 1936:133), and the Whitewater Brook Dam in Claremont (NH Dam #47.30) constructed in 1967–1968 (US Army Corps of Engineers 1979:3). The Tower Hill Pond and Whitewater Brook dams were designed specifically to improve the water supply for local municipalities and are earthen dams with concrete cores that employ open-channel overflow systems at the extreme ends that are similar to those at the Woodward and Babbidge dams.

### **44. National or State Register Criteria Statement of Significance:**

The Woodward Pond Dam is eligible for listing in the National Register under Criterion A at the local level in the area of Community Planning and Development for its association with the history of water supply to the City of Keene. Constructed in 1910, the dam represented the culmination of more than 50 years of actions by the city to find a reliable water source for fire suppression and other needs. After a fire destroyed much of Keene's Center Square area in 1865, the town voted to establish the city's first water supply reservoir at Goose Pond, a small pond about 2.5 miles to the north of the square. As the city's population and industrial operations grew in the last quarter of the nineteenth century, an additional source of water was needed and the City purchased Woodward Pond for that purpose in 1886. The southern end of the Woodward Pond had been dammed in the early 1800s to provide head for the operation of saw and grist mills owned by the Woodward family and the mill foundations are still visible below the current dam. Between 1886 and 1901, the City built a water delivery system consisting of small retaining secondary reservoirs to carry water from Woodward Pond and acquired more than 800 acres of land surrounding the pond. Planning for a new and larger dam that would increase the capacity of the reservoir began in the early 1900s and when it was completed, Woodward Pond became the city's primary source of water. The dam continues to function in its historic capacity as an important element of the city's water supply system.

The dam does not possess significance under National Register Criteria B because it is not associated with the productive life of any individual who is important in local, state, or national history. It does not meet Criterion C because it is an example of a very common form of dam construction and is not a significant work of engineering. There are visible remains of previous historic mill operations present on the downstream side of the dam that were disturbed during the construction of the dam in 1910. Further archaeological investigation would be required to determine whether the remains may yield important information about the mill operations and qualify for listing under Criterion D.

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

**45. Period of Significance:**

1886–1910.

**Surveyor's Evaluation:**

NR listed:	individual _____	NR eligible:	individual _____	NR Criteria:	A <u>X</u>
	within district _____		within district <u>X</u>		B _____
Integrity:	yes <u>X</u>		not eligible _____		C _____
	no _____		more info needed _____		D _____
					E _____

**46. Statement of Integrity:**

The Woodward Pond Dam retains integrity in terms of its location, setting, design, materials, workmanship, feeling and association. The dam has not undergone any major alterations since its construction. Work on the structure has been limited to minor repairs and maintenance procedures such as clearing and grubbing of woody vegetation on the dam berm and spillway and the placement of new fieldstone riprap along its spillway channel.

**47. Boundary Discussion:**

The boundary is the structural footprint of the Woodward Pond Dam, which lies on portions of parcels 7 and 25 of Roxbury Tax Map 403.

**48. Bibliography and/or References:**

Allen, Frank L.

n.d. *Distributing Reservoir, Section through D-D*. On file, City of Keene, NH.

Babbidge, Paul F., and Wadsworth, Samuel

1910 *Plan of Proposed Dam at Echo Lake, Roxbury, NH*. On file, City of Keene, NH.

Cheshire County Registry of Deeds (CCRD)

1886a George A. Hall to City of Keene. Book 283, Page 205.

1886b Joseph A. and Rachel C. Woodward to City of Keene. Book 283, Page 416.

1887a George A. Hall to Elisha O. Woodward. Book 274, Page 182.

1887b Elisha O. Woodward to City of Keene. Book 285, Page 61.

1901a George A. Hall of City of Keene. Book 326, Page 572.

1901b Charles Giffin to City of Keene. Book 326, Page 574.

1901c Samuel Wadsworth to City of Keene. Book 328, Page 296

1901d George A. Hall to City of Keene. Book 328, Page 297.

1902a Nettie W. Waldo to City of Keene. Book 329, Page 420.

1902b Charles W. Norwood and Norris G. Gurnsey to City of Keene. Book 329, Page 421.

1902c Samuel Wadsworth to City of Keene. Book 332, Page 48.

Child, Hamilton

1885 *Gazetteer of Cheshire County, NH, 1736–1885*. Printed at the Journal Office, Syracuse, NY.

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

City of Keene

1903 *Map of Echo Lake and Land of the City of Keene, Roxbury & Nelson, NH.* On file, City of Keene, NH.

1912a *Annual Report of the City of Keene, for 1911.* Sentinel Printing Company, Keene, NH.

1912b *Map of the Echo Lake Tract owned by the City of Keene, Roxbury & Nelson, NH.* On file, City of Keene, NH.

1918 *Annual Report of the City of Keene, for 1917.* Sentinel Printing Company, Keene, NH.

1940 *History of the Keene Water System.* City of Keene Health Department, Keene, NH.

Griffin, Simon G.

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**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

Date photos taken: 10/3/2018



Photo # 2 Description: General view of dam, impoundment, and sluice intake area from dam crest.  
Reference (file name or frame#): ROX0006-02 Direction: Northeast



Photo # 3 Description: General view of sluiceway, sluiceway west abutment, and dam from east abutment.  
Reference (file name or frame#): ROX0006-03 Direction: West



**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**



Photo # 4 Description: General view of downstream face of dam and spillway from 2010 terracing.  
Reference (file name or frame#): ROX0006-04 Direction: Northeast



Photo # 5 Description: View of Roaring Brook and Woodward Mill remains (c. 1800) from east river bank.  
Reference (file name or frame#): ROX0006-05 Direction: North

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**



Photo # 6 Description: Detail view of Woodward Mill remains (c. 1800) from east river bank.  
Reference (file name or frame#): ROX0006-06 Direction: Northwest



Photo # 7 Description: View of Roaring Brook and Woodward Mill remains (c. 1800) from Woodward Pond Road.  
Reference (file name or frame#): ROX0006-07 Direction: South

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**



Photo # 8 Description: View of spillway channel and cut granite culvert from Woodward Pond Road.  
Reference (file name or frame#): ROX0006-08 Direction: East



Photo # 9 Description: View of dam from Woodward Pond Road approach.  
Reference (file name or frame#): ROX0006-09 Direction: North

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**



Photo # 10 Description: View of Old Parker Hill Road (former route to Nelson, NH) from Old Parker Hill Road.  
Reference (file name or frame#): ROX0006-10 Direction: East

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

PHOTO KEY IS LOCATED ON PAGE   4  

PHOTO LOG:

- ROX0006-01
- ROX0006-02
- ROX0006-03
- ROX0006-04
- ROX0006-05
- ROX0006-06
- ROX0006-07
- ROX0006-08
- ROX0006-09
- ROX0006-10

I, the undersigned, confirm that the photos in this inventory form have not been digitally manipulated and that they conform to the standards set forth in the NHDHR Photo Policy. These photos were printed at the following commercial printer OR were printed using the following printer, ink, and paper: Epson Stylus Pro Printer, Photo Black T5801 Ink, Premium Photo Paper (as approved by DHR 6/2014). (Color photos must be professionally printed.) The negatives or digital files are housed at/with: PAL, Pawtucket, RI.

**SIGNED:**



**FOR STATE REGISTER LISTING ONLY!**

If this inventory form is being submitted for consideration of New Hampshire State Register listing, have you included:

       a photo CD with digital images included in the nomination (does not apply if film photography was used)

       the State Register Contact Information sheet

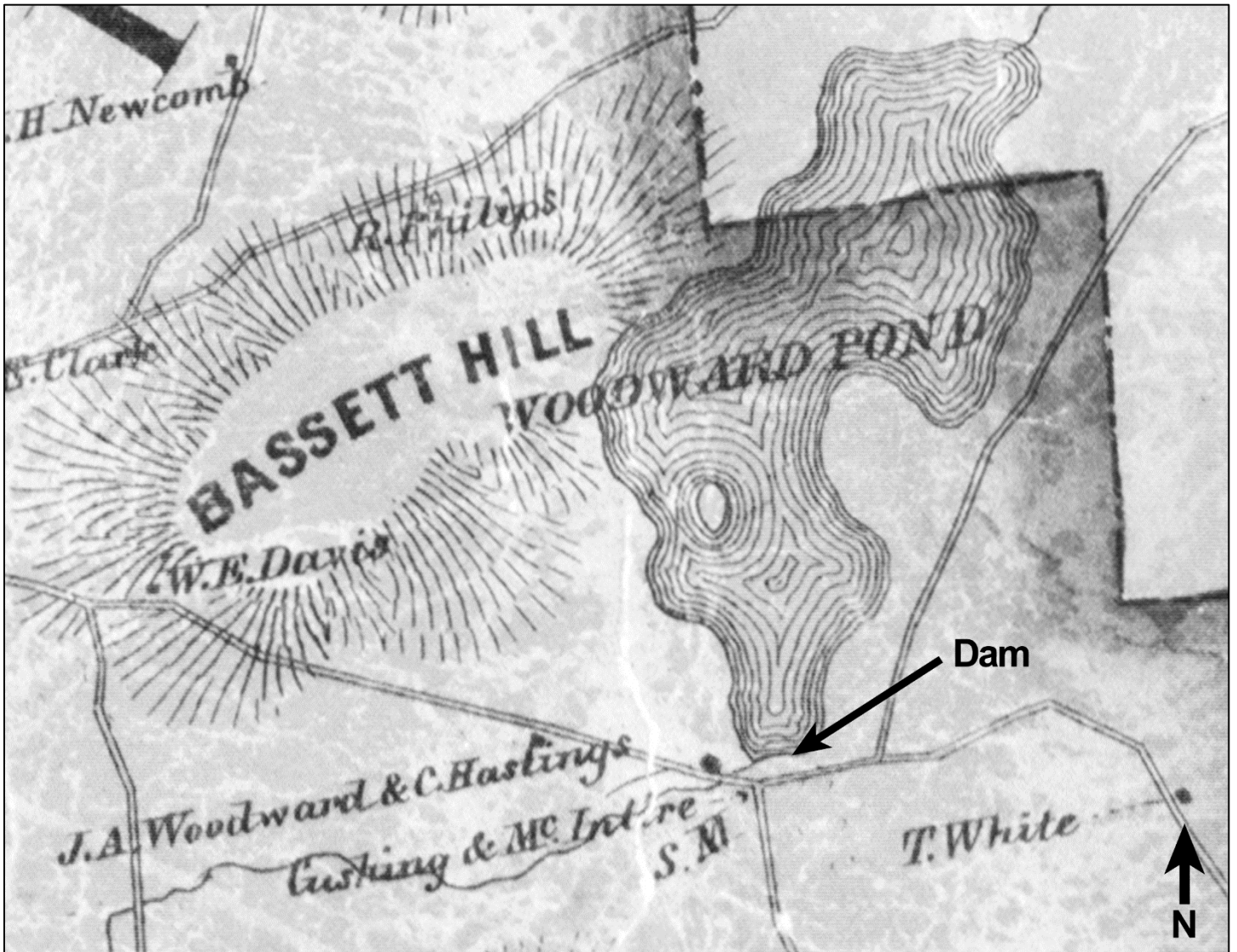


Figure 1. Detail of a map of Cheshire County showing Woodward Pond (Source: Smith & Morley 1858).

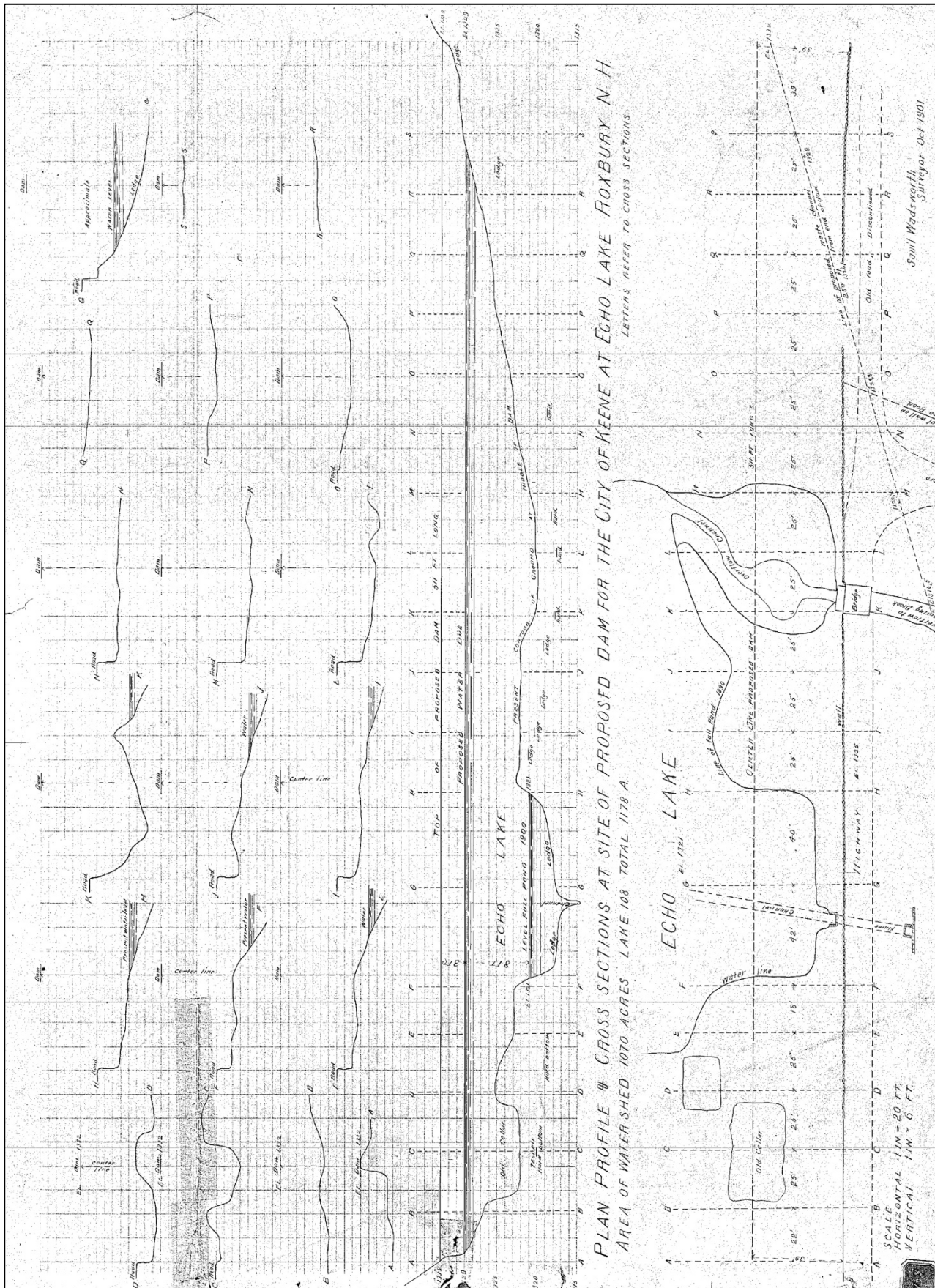


Figure 2. Plan showing then existing dam at Echo Lake (Source: Wadsworth 1901).

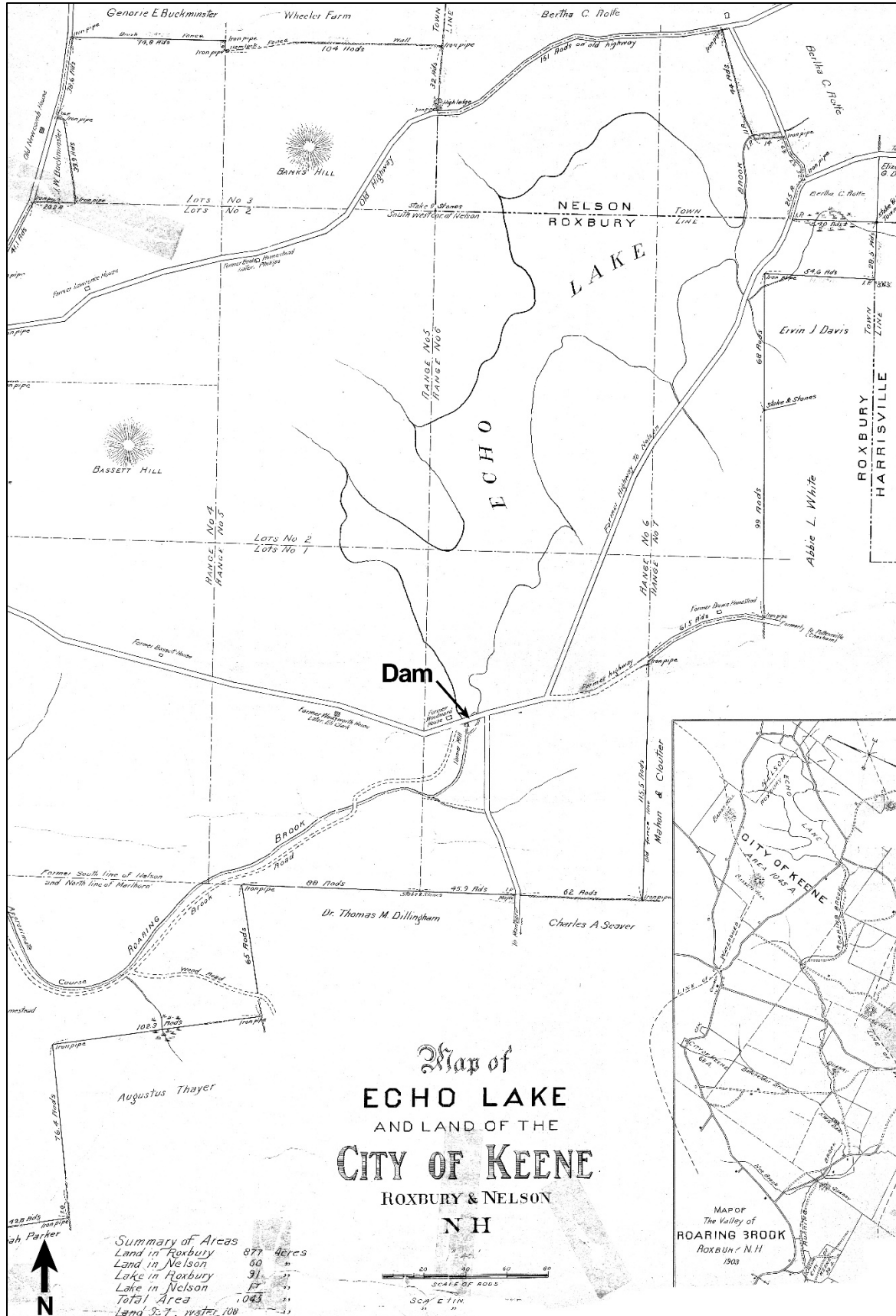


Figure 3. Map of Echo Lake and Land of the City of Keene, showing Woodward house and mill (Source: City of Keene 1903).



**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

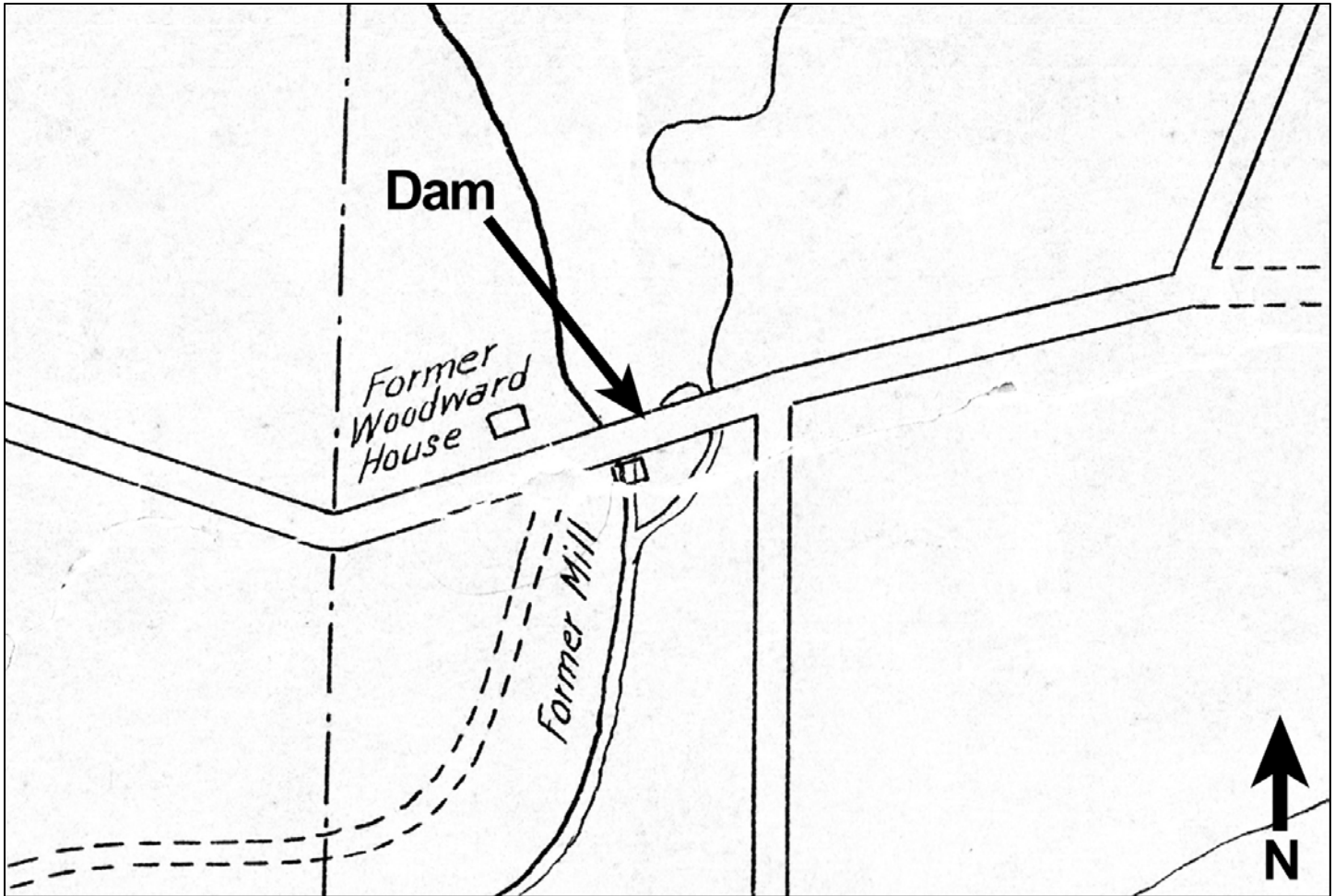


Figure 4. Detail of *Map of Echo Lake and Land of the City of Keene*, showing former Woodward house and mill (Source: City of Keene 1903).

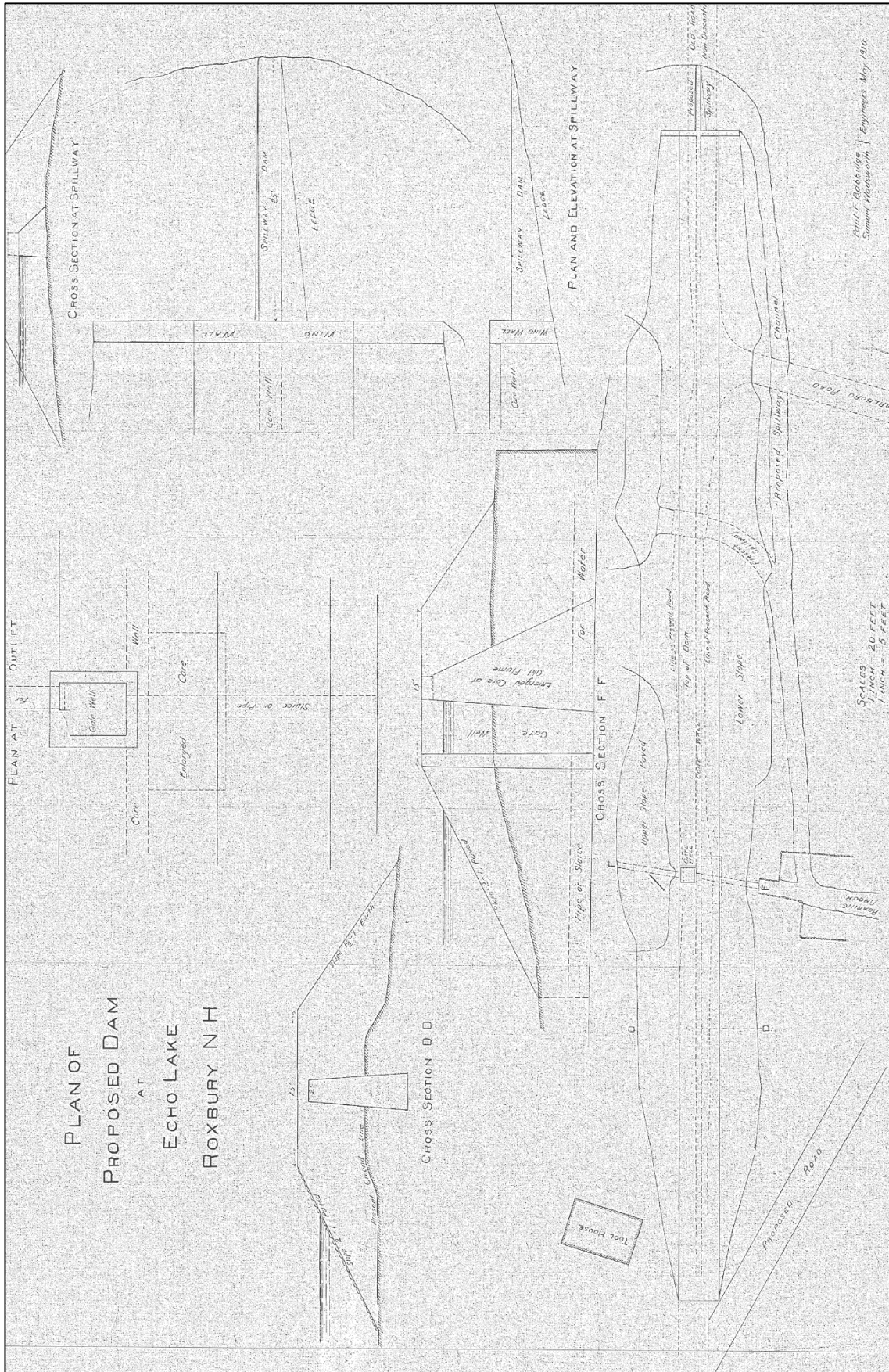


Figure 5. Plan of Proposed Dam at Echo Lake, showing extant "tool house" (Source: Babbidge & Wadsworth 1910).

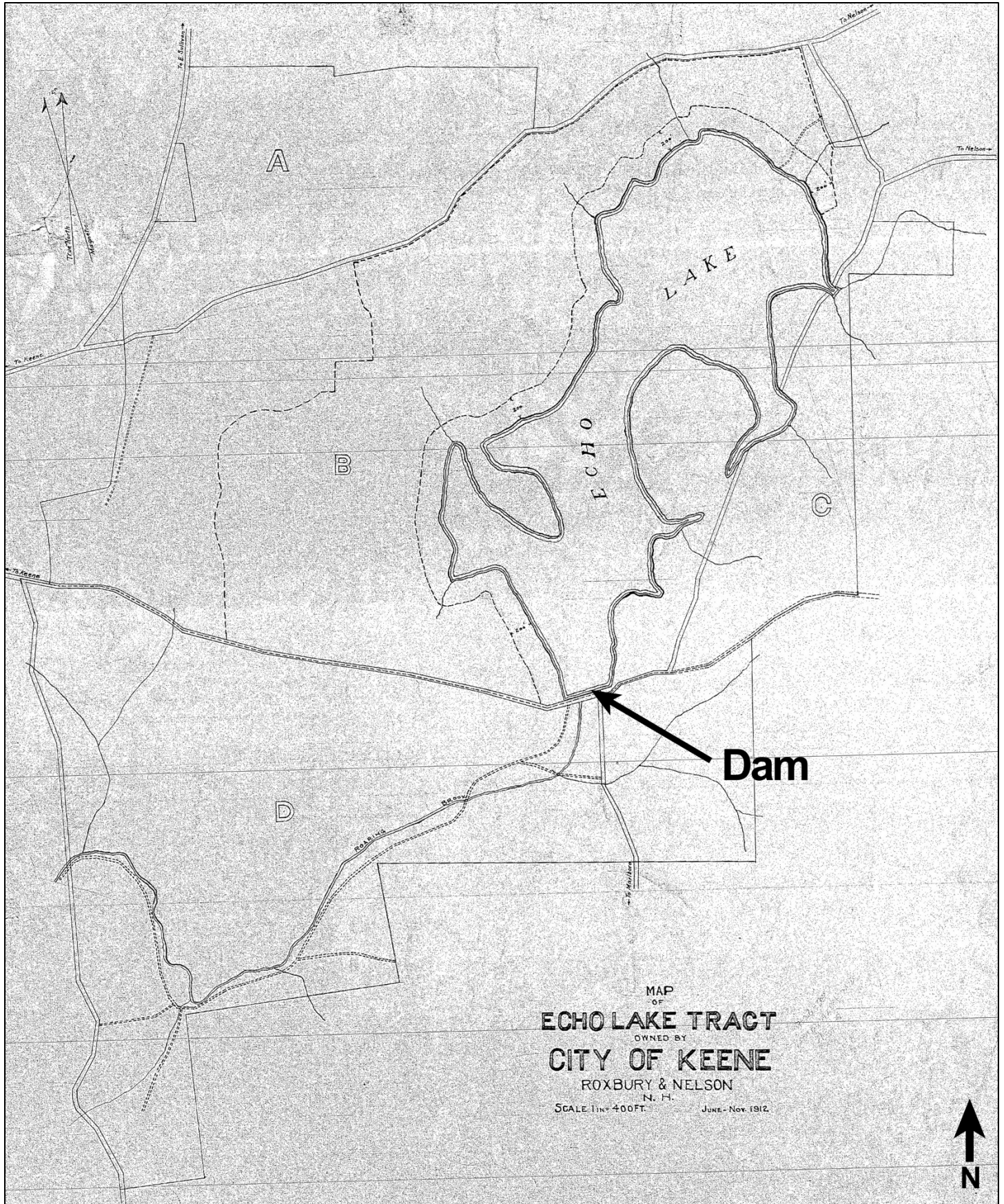


Figure 6. Map of Echo Lake Tract Owned by City of Keene (Source: City of Keene 1912b).

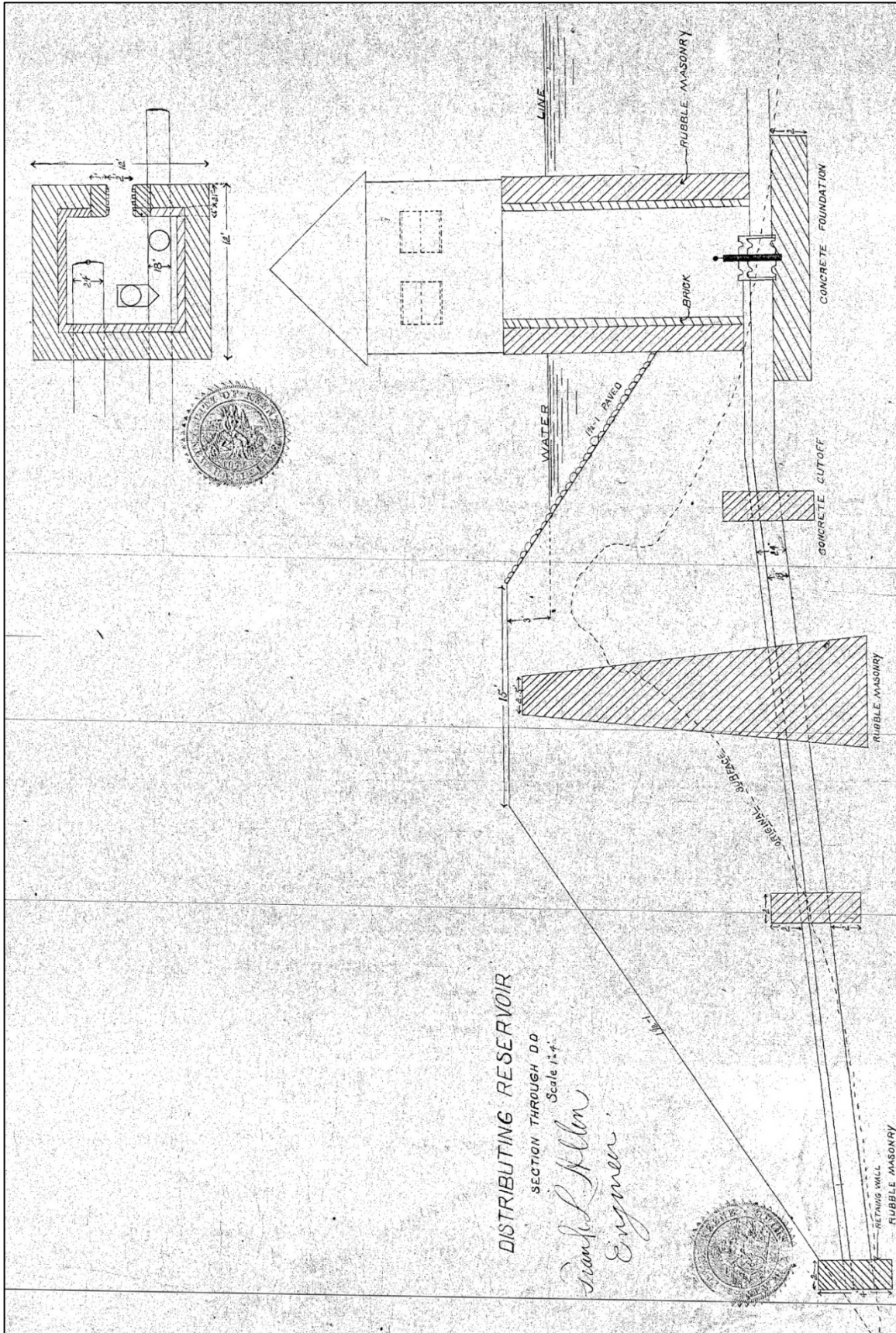


Figure 7. Cross section of proposed Babbidge Reservoir, c. 1931, showing near identical design to that of Woodward Pond Dam aside from a dual intake system (Source: Allen n.d.).

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**

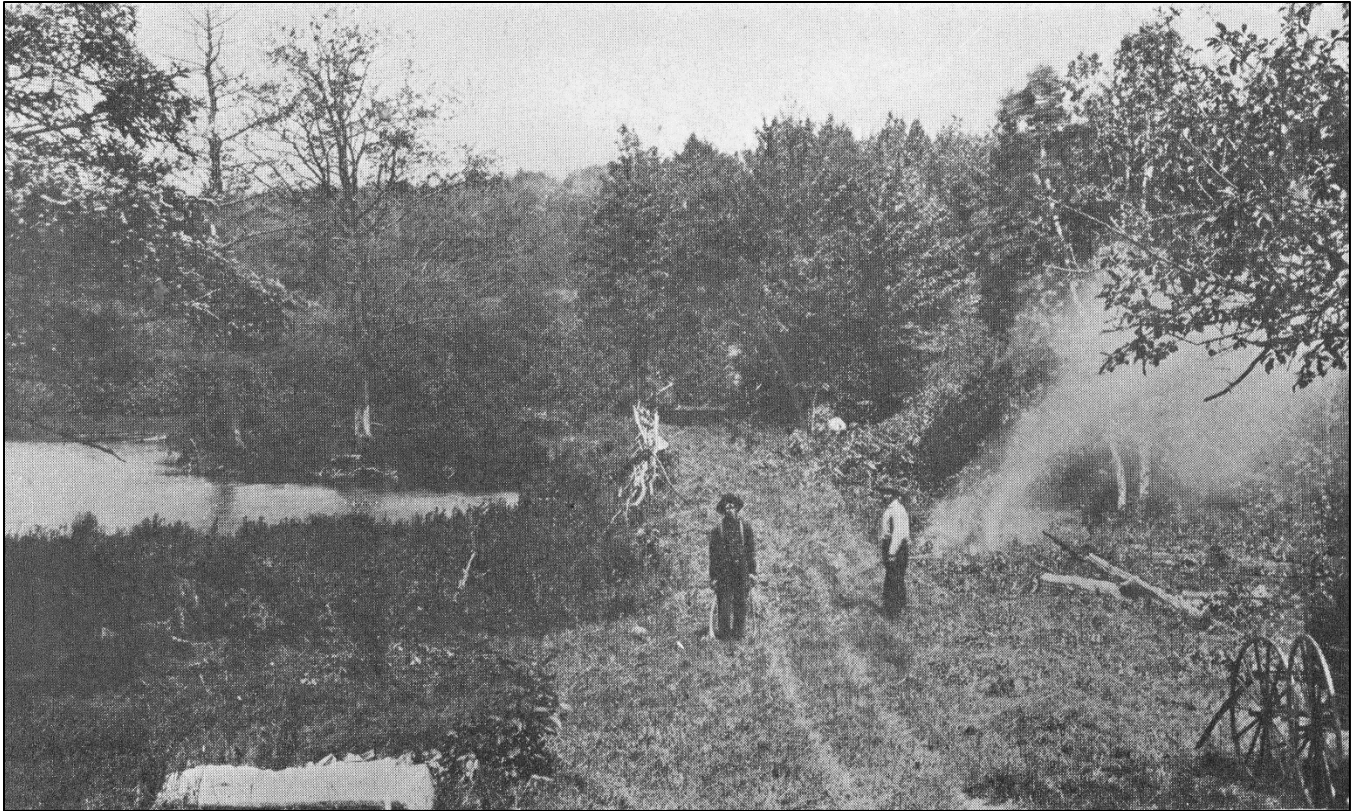


Figure 8. Photograph taken July 7, 1910, before construction of the Woodward Pond Dam, showing that Woodward mill buildings (ca. 1806) had been removed prior to this date (Source: City of Keene).

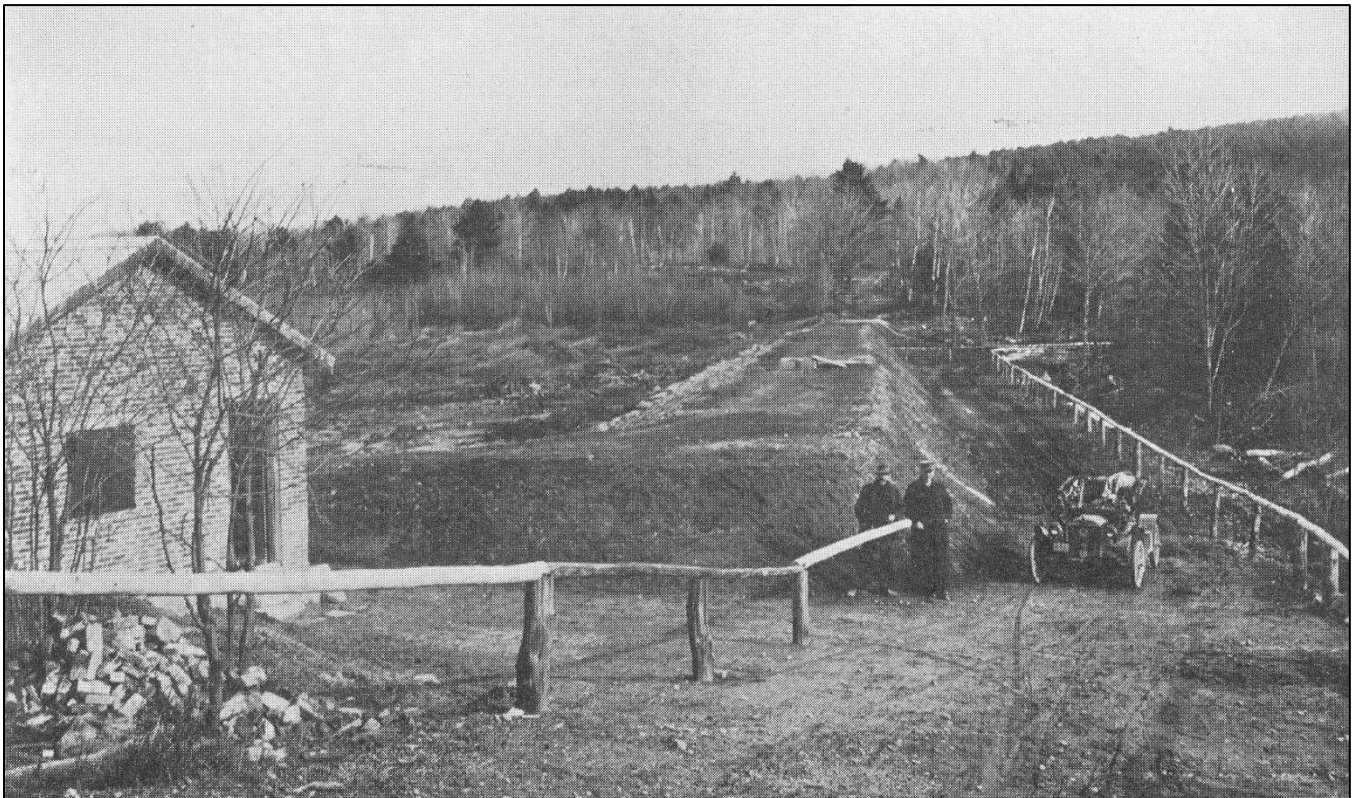


Figure 9. Photograph taken November 12, 1910, after construction of the Woodward Pond Dam (Source: City of Keene).

**INDIVIDUAL INVENTORY FORM**

**NHDHR INVENTORY # ROX0006**



Figure 10. Photograph taken November 12, 1910, after construction of the Woodward Pond Dam (Source: City of Keene).