

Great Dam Removal Project

Section 106 Consultation
Coordination Meeting 1



November 18, 2014
Exeter Public Library





Agenda

- Welcome and Introductions
- Review Section 106 Consultation - Process and Anticipated Schedule
- Phase IB Intensive Archaeological Investigation Report
- Review Project Area Form and Great Dam Inventory Form
- Planning for Public Information Meeting
- Summary & Action Items



Section 106 Process

- Project must follow Section 106 of the National Historic Preservation Act
- Section 106 requires federal agencies to take in to account the effects of their project on historic properties, including historic buildings and districts and archaeological resources
- The NH Division of Historical Resources (NHDHR) acts as the State Historic Preservation Office (SHPO)
- NOAA was the Lead Federal Agency for the Feasibility Study, but LFA is currently unresolved; may be NOAA or the Corps of Engineers
- Six consulting parties (individuals and groups) have been officially determined to be consulting parties

Initiate Section 106 Process

Establish undertaking
Identify appropriate SHPO/THPO *
Plan to involve the public
Identify other consulting parties

▶ *No undertaking/no potential to cause effects*

▼
Undertaking is type that might affect historic properties

Identify Historic Properties

Determine scope of efforts
Identify historic properties
Evaluate historic significance

▶ *No historic properties affected*

▼
Historic properties are affected

Assess Adverse Effects

Apply criteria of adverse effect

▶ *No historic properties adversely affected*

▼
Historic properties are adversely affected

Resolve Adverse Effects

Continue consultation

▶ *Memorandum of Agreement*

▼
FAILURE TO AGREE

▶ **COUNCIL COMMENT**



Status of Section 106 Review

- Consulting Parties Identified and Contacted
 - Town of Exeter
 - Don Robie, (former) owner of buildings on Kimball's Island
 - Exeter Heritage Commission
 - Exeter Historical Society
 - Exeter Historic District Commission
 - Brian Griset, resident of Exeter
- Individual/Project Area forms and Phase IA report completed
 - Reviewed by New Hampshire DHR and Consulting Parties in 2012 (during Feasibility and Impact Study)
 - Initial NHDHR review conducted on May 23, 2012
 - Revised Forms submitted on October 10, 2014
 - Phase IB Field Work completed in October 2014



Overall Project Schedule

Task	Timeline
Final Design Surveys	September – October 2014
Engineering Design	October 2014 – July 2015
Environmental Permitting	February – August 2015
Section 106 Consultation	October 2014 – June 2015
Bid Phase	July – September 2015
Construction Phase	September 2015 – Spring 2016



Section 106 – Anticipated Schedule

Task	Agenda	Timeline
Coordination Meeting 1	Process; ID of Affected Historic properties	November 18, 2014
Public Information Meeting 1	Process; ID of Affected Historic properties	December 2014
Coordination Meeting 2	Effects; Mitigation	January 2015
Coordination Meeting 3	Mitigation/Draft MOA	February/March 2015
Public Information Meeting 2	Draft MOA	February/March 2015
Memorandum of Agreement		Spring 2015

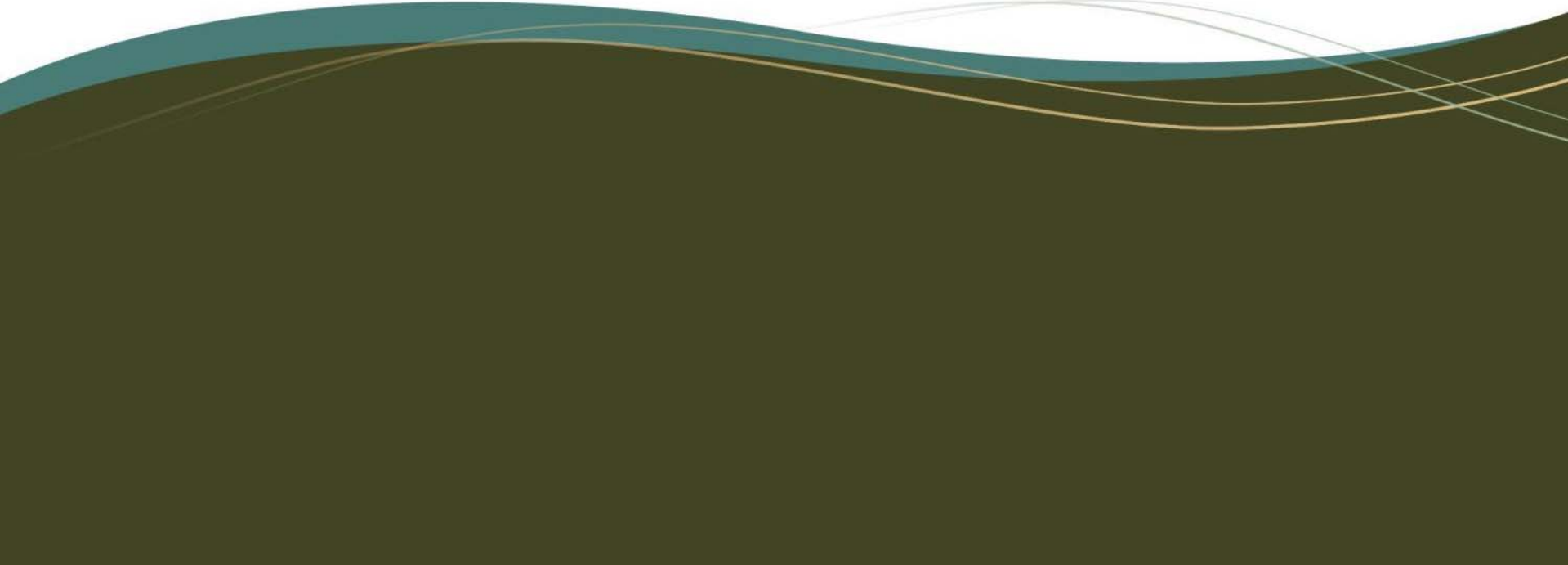


Cultural Resources – Studies to Date

- **Project Area Form**
 - Documents the cultural resources that may be affected by the project
 - Discusses previous survey and designation efforts
 - Provides recommendations for additional investigations, if needed
- **Great Dam Individual Inventory Form**
 - Description of the dam
 - Historic development context and individual history of the dam
 - Comparative evaluation
- **Phase IA Archaeological Survey**
 - Literature search (e.g., known sites)
 - Field review (to look for sensitive landforms)
 - Results in recommendations for further surveys if needed
- **Phase IB Archaeological Survey**
 - Systematic test pit testing at direct impact (medium or high sensitivity)

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ARCHAEOLOGICAL SURVEY





Phase IA Archaeological Survey - VHB

- Literature search and field visit
- Recommended Phase IB testing throughout the Area of Potential Effect if dam removal is selected.
- Also recommended consideration of post-removal monitoring of archaeologically sensitive areas along upstream river banks.
- NHDHR concurred with VHB recommendations



Phase IB Archaeological Survey - IAC

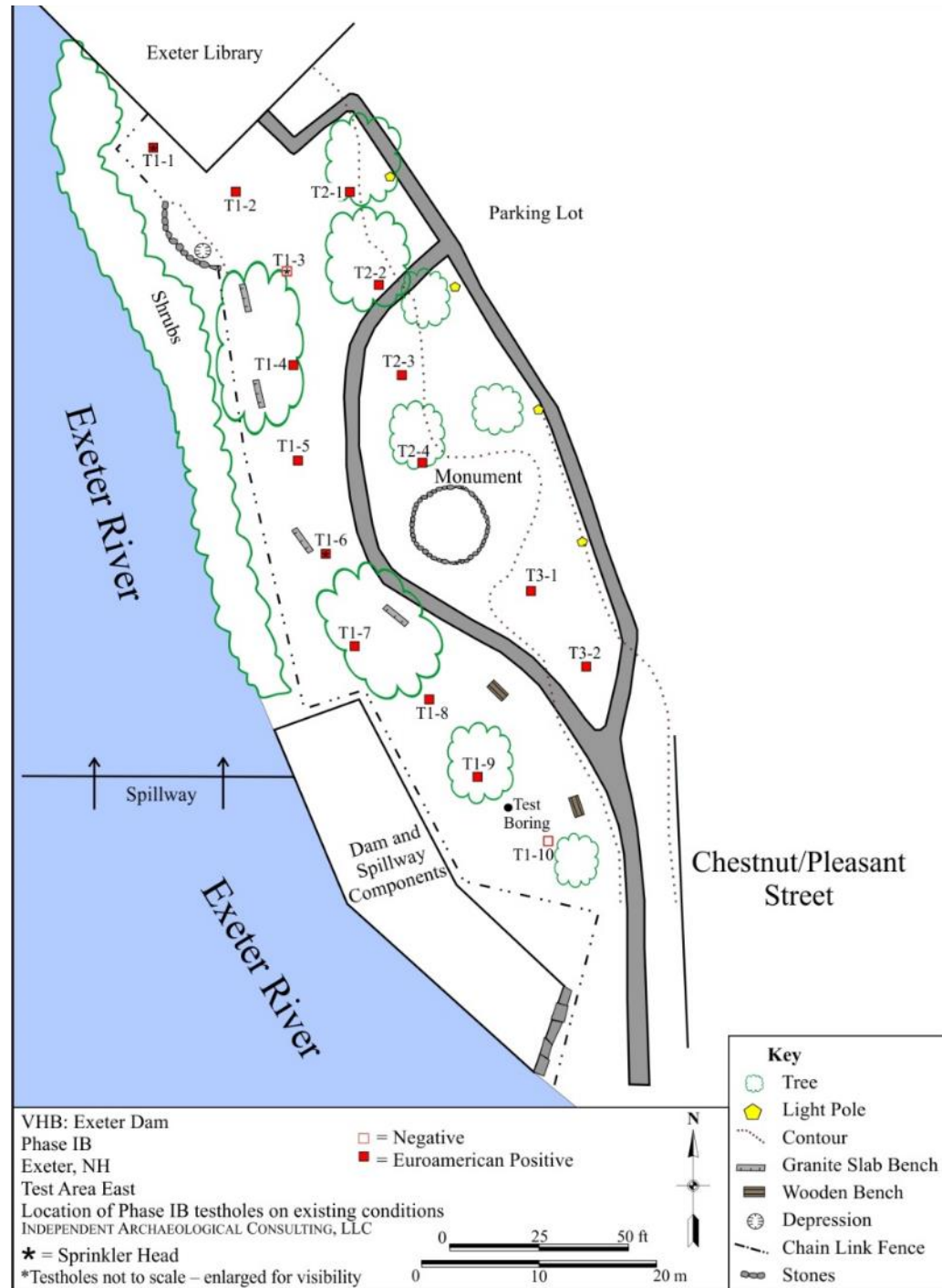
- Testing on both sides of the river
- The land on both sides of the river have been subject to disturbance and extensive fill
- No further archaeological investigation is recommended
- Report will be submitted shortly to NHDHR



Phase IB Archaeological Survey, October 2014

- On east side of river, 16 shovel test pits along three transects; a total of 493 artifacts recovered
- On west side of river, 2 shovel test pits, with 74 artifacts collected; one filled foundation, another left open with fieldstone walls exposed
- All shovel test pits showed evidence of filling, with no natural soil horizons exposed

Site plan for east side of river





East side of River



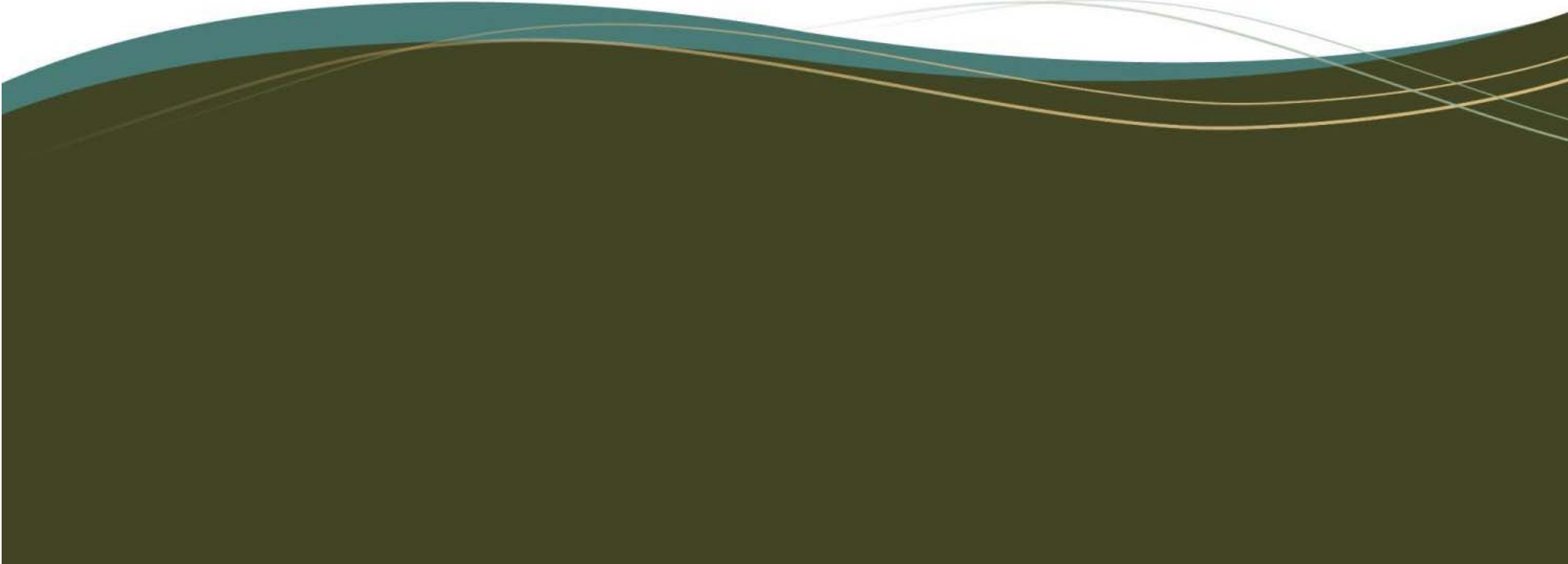


West side of River



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IDENTIFICATION OF HISTORIC PROPERTIES





Great Dam Individual Inventory Form

- Form included both the dam and its components and the fish passage structure
- Dam recommended eligible as a contributing resource to the existing historic district, but not individually eligible; fish passage structure recommended not contributing or individually eligible
- NHDHR agreed with the eligibility recommendations

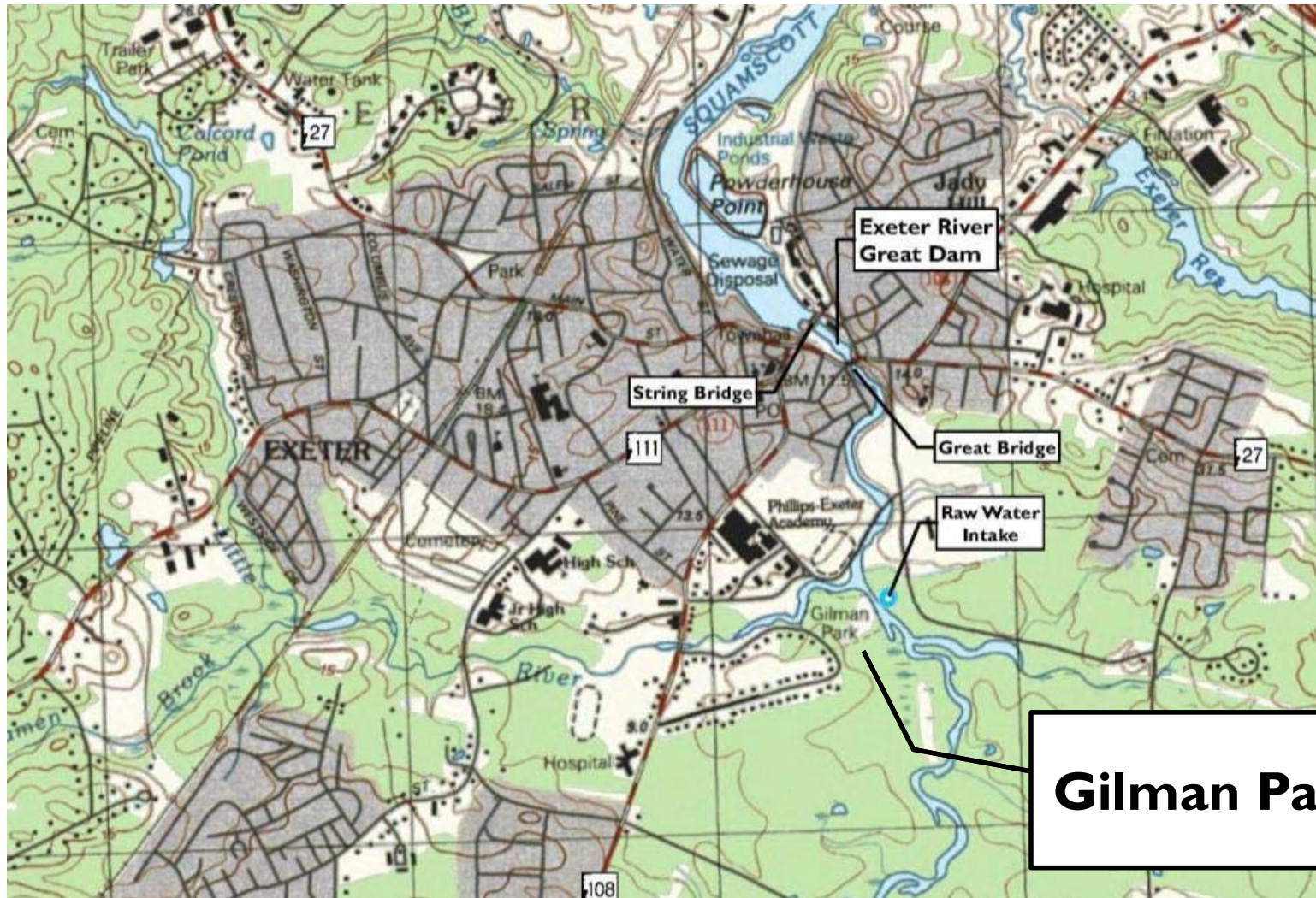


Project Area Form

- Discussed previous survey and designation efforts
- Presented physical development history and description of existing area
- Recommended additional investigation in Franklin Street area, south of dam; NHDHR concurs
- NHDHR requests additional research on area east of Exeter River, Gilman Park, and Phillips Exeter Academy fields on both sides of river and footbridges crossing the river
- VHB further recommended the stone and concrete walls in the vicinity of the dam



Gilman Park



Gilman Park



Gilman Park





Gilman Park – Civil War Cannon Display





Gilman Park - Changes in River Depth and Width

Location	Existing Conditions				Dam Removal			
	May Median Flow		Sept Median Flow		May Median Flow		Sept Median Flow	
	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)
Gilman Park 1	8.00	116.39	7.67	113.37	5.98	82.78	5.22	74.52
Gilman Park 2	7.20	151.41	6.83	147.77	5.04	104.78	4.38	90.39

Typically, river depth will decrease from 7-8 ft in depth to about 5-6 ft (i.e., about 2-2½ ft). Widths will decrease from about 120-150 ft wide to about 80-100 feet wide (i.e., 30-50 ft).



Gilman Park – Visual Simulation





PEA Recreational Areas and Foot Bridges





PEA Recreational Areas and Foot Bridges





PEA - Changes in River Depth and Width

Location	Existing Conditions				Dam Removal			
	May Median Flow		September Median Flow		May Median Flow		September Median Flow	
	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)	Depth (ft)	Width (ft)
Below PEA/Stadium Bridge	6.14	175.23	6.10	161.63	3.51	127.33	2.49	113.45
PEA/Stadium Bridge	9.84	131.16	9.52	128.26	7.71	101.27	7.11	91.54

Typically, river depth will decrease from about 6 to 10 ft to about 2.5 to 8 ft, depending on flows and location (about 2 to 3 ½ ft decrease). Widths will decrease from about 130-170 ft wide to about 90-130 feet wide (i.e., 30-50 ft).



East of River, South of Gardner Street





East of River, South of Gardner

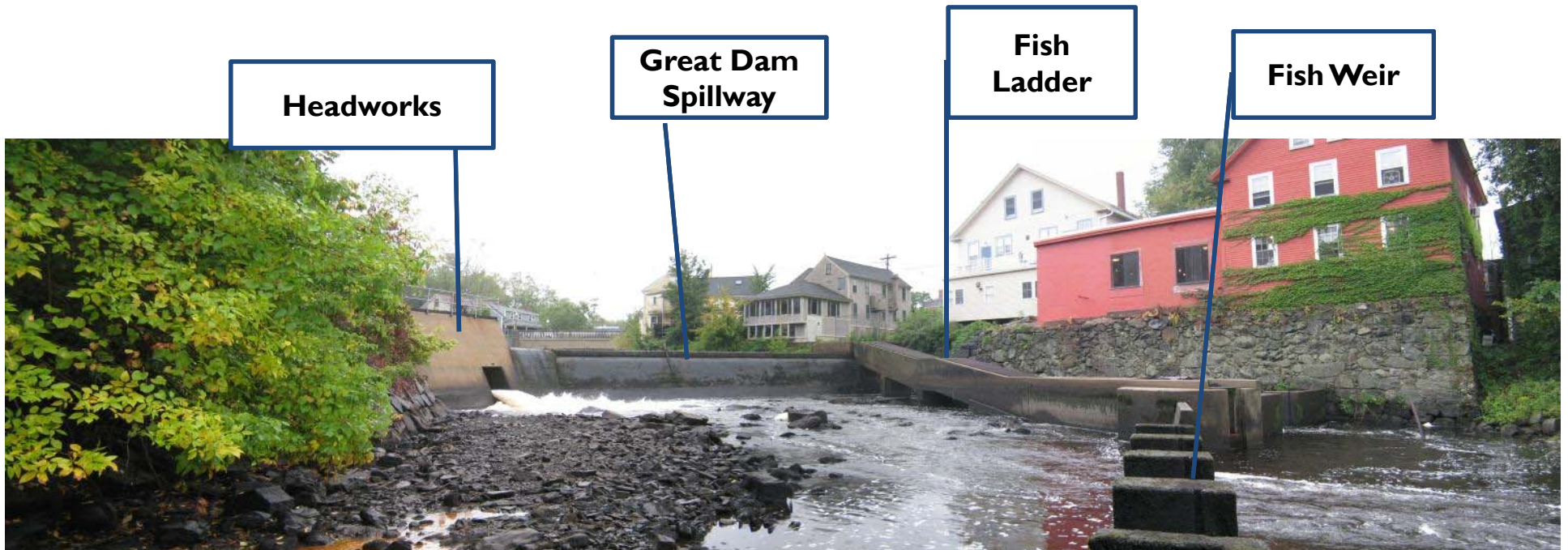


Great Dam and Adjacent Walls





Great Dam and Adjacent Walls

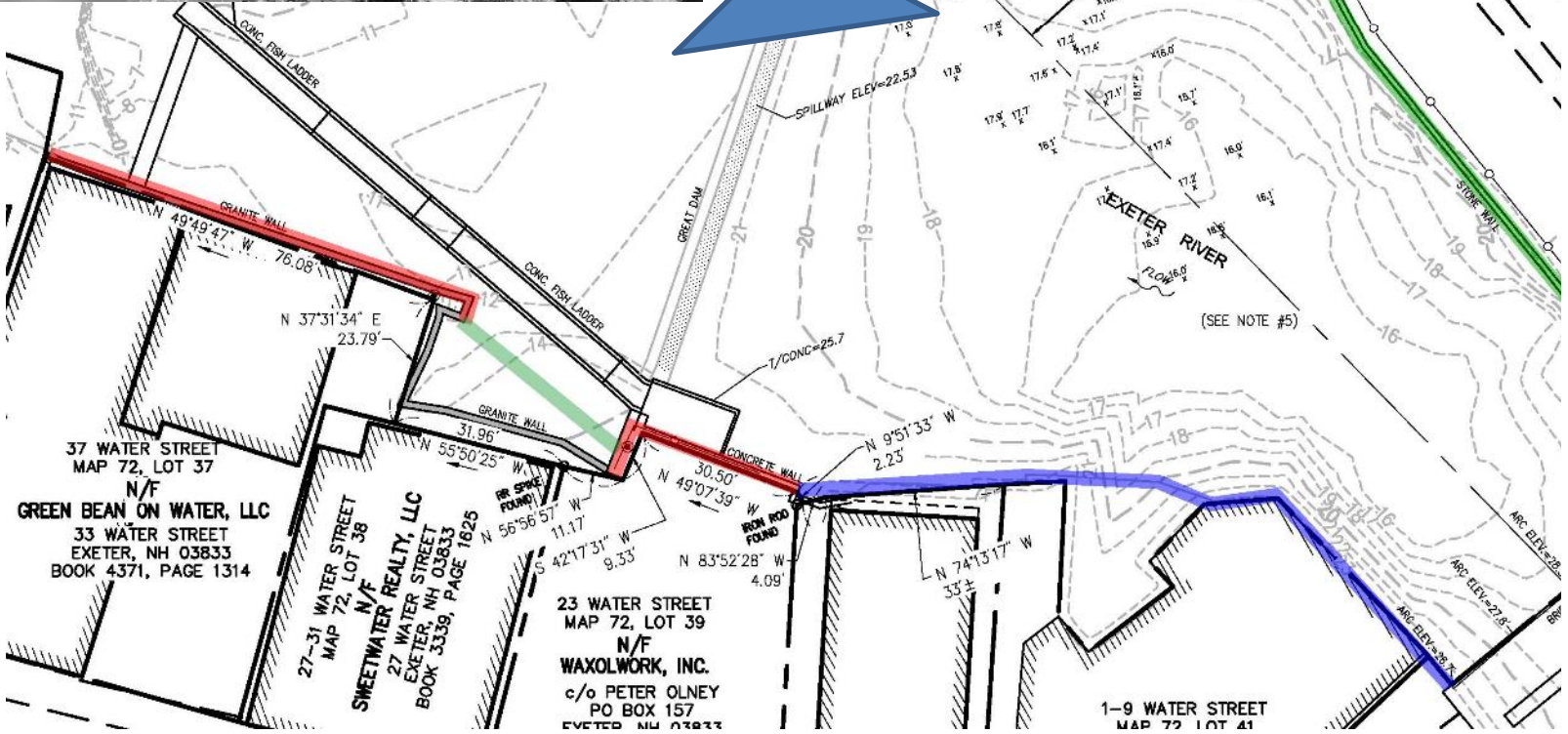
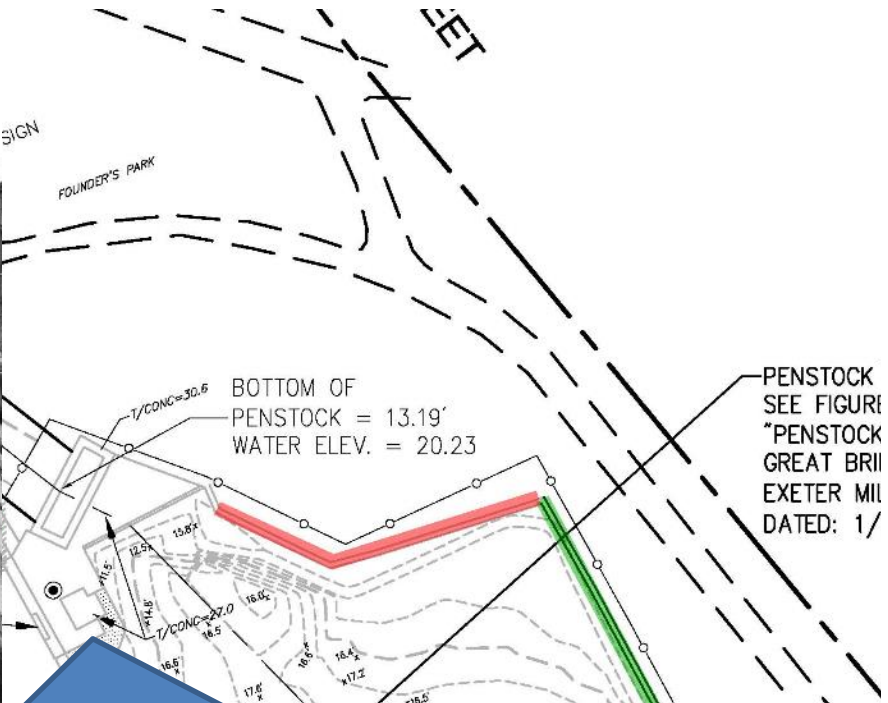


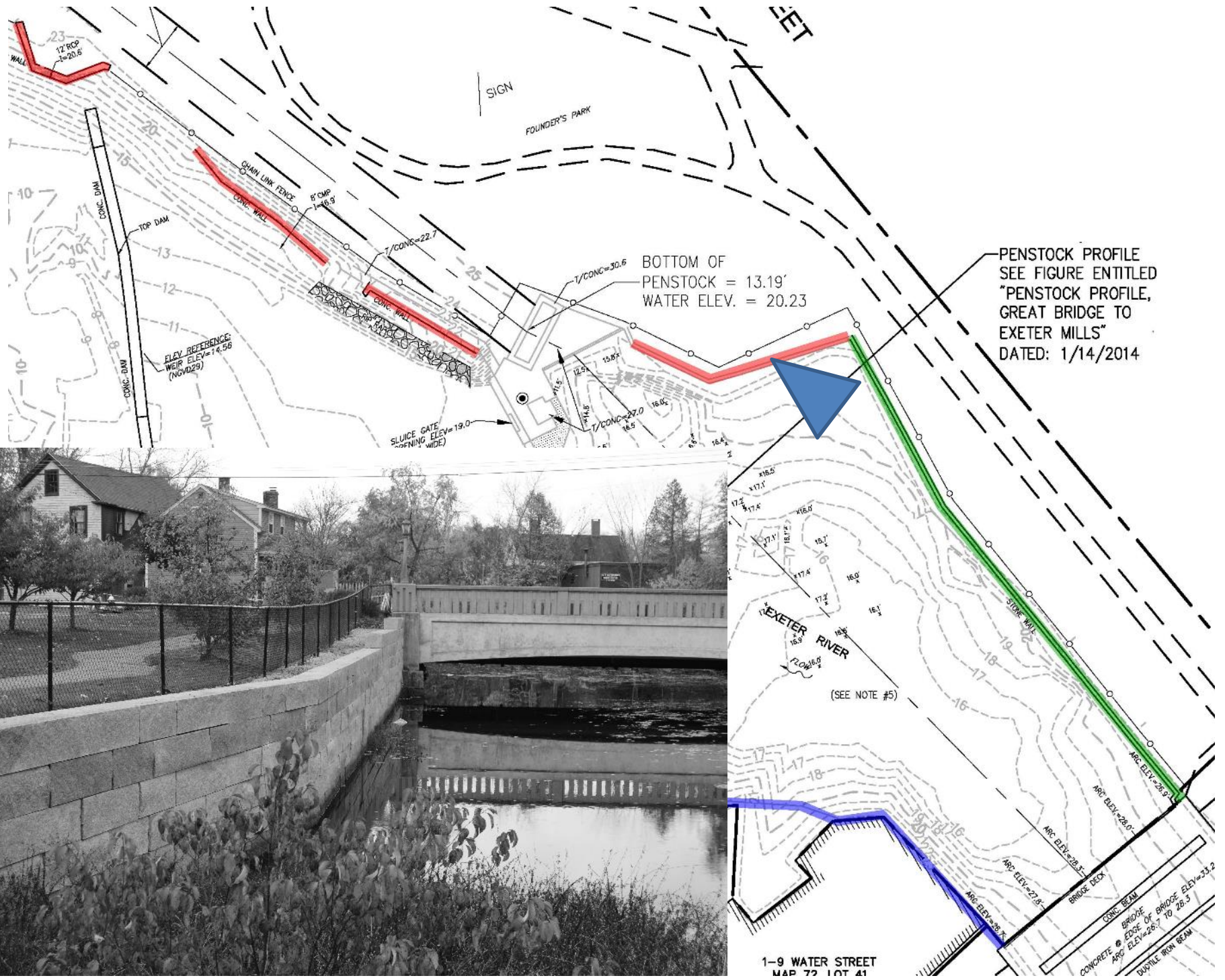
Looking upstream (south)



EXETER MILLS
DATED: 1/14/2014



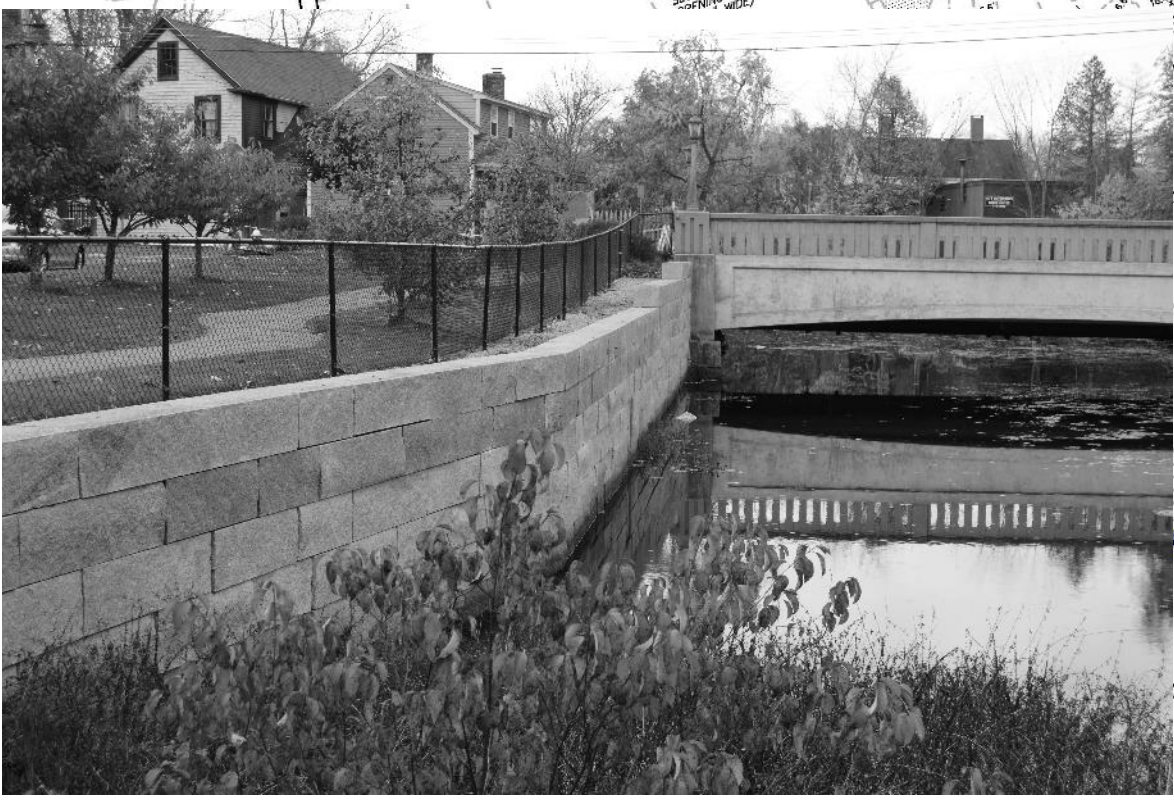


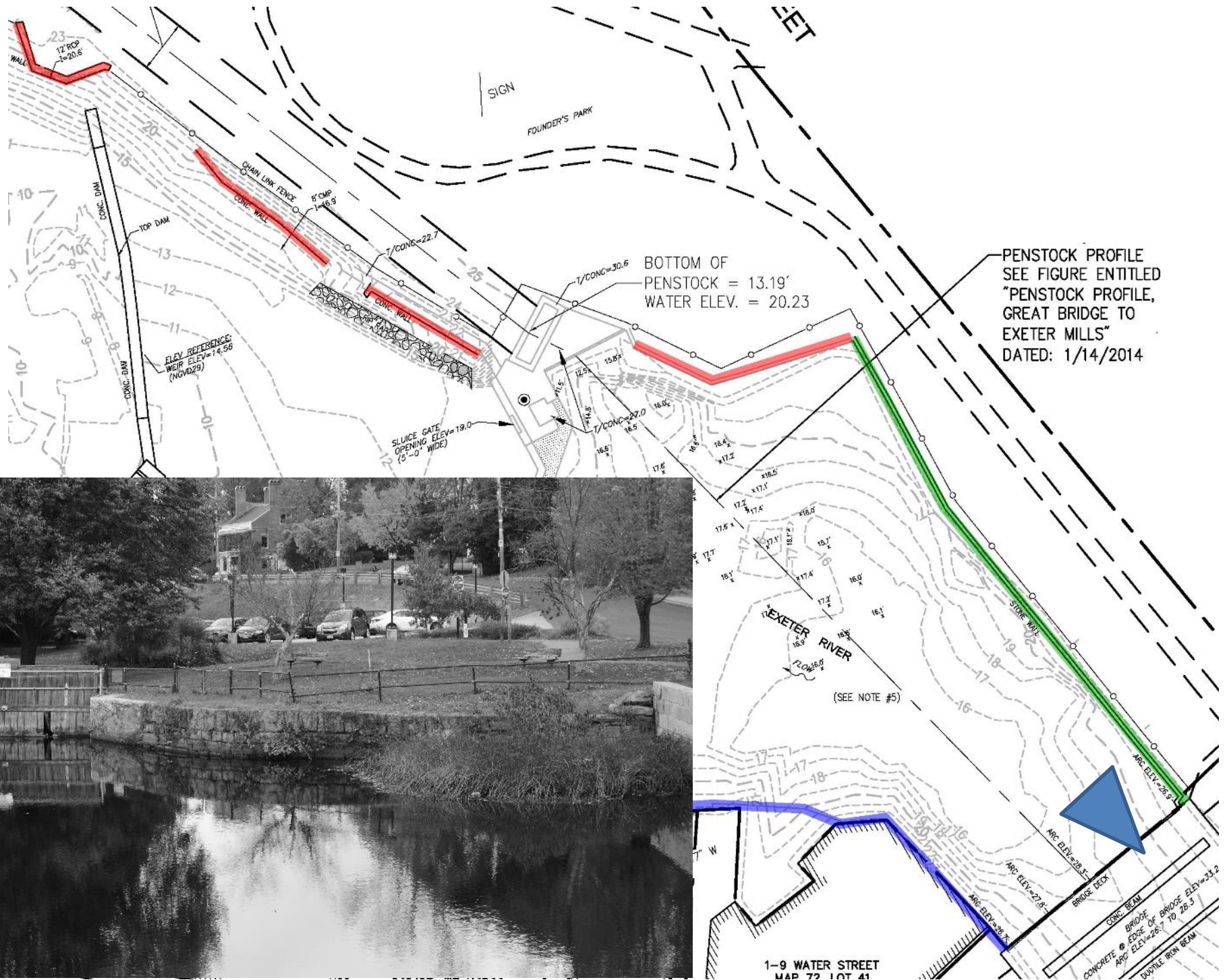


PENSTOCK PROFILE
 SEE FIGURE ENTITLED
 "PENSTOCK PROFILE,
 GREAT BRIDGE TO
 EXETER MILLS"
 DATED: 1/14/2014

BOTTOM OF
 PENSTOCK = 13.19'
 WATER ELEV. = 20.23

1-9 WATER STREET
 MAP 72 LOT 41





PENSTOCK PROFILE
 SEE FIGURE ENTITLED
 "PENSTOCK PROFILE,
 GREAT BRIDGE TO
 EXETER MILLS"
 DATED: 1/14/2014



1-9 WATER STREET
 MAP 72 LOT 41



STOCK PROFILE
FIGURE ENTITLED
"STOCK PROFILE,
"REAT BRIDGE TO
"ATER MILLS"
DATED: 1/14/2014



Visual Simulation at Dam Site





Visual Simulation at Dam Site



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DISCUSSION

