

BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION
NOTICE OF INTENT TO CONSTRUCT QUALIFYING CONDUIT HYDROPOWER
FACILITY

INTRODUCTORY STATEMENT

The City of Fitchburg applies to the Federal Energy Regulatory Commission for a determination that the Narrows Road Pressure Reduction Valve Station is a Qualifying Conduit Hydropower Facility, meeting the requirements of section 30(a) of the Federal Power Act (FPA), as amended by section 4 of the Hydropower Regulatory Efficiency Act of 2013 (HREA).

The location of the facility is:

State or Territory:	Massachusetts
County:	Worcester County
Township or nearby town:	Westminster
Water source:	Regional Water Treatment Plant – Meetinghouse Pond

The exact name and business address of the applicant(s) is:

Applicant's Name:	The City of Fitchburg DPW – Water Division
Address:	1200 Rindge Road Fitchburg, MA 01420
Telephone Number:	(978) 345-9616 ext. 109
Email Address:	jdeline@fitchburgma.gov

The exact name and business address of each person authorized to act as agent for the applicant(s) in this notice of intent is:

Name of Agent:	Weston & Sampson Engineers, Inc.
Address:	100 International Drive, Suite 152 Portsmouth, NH 03801
Telephone Number:	(603) 431-3937
Email Address:	mcclurej@wseinc.com

The City of Fitchburg is a municipality.

NON-FEDERAL CONDUIT

The Narrows Road Pressure Reduction Station will use the hydroelectric potential of a non-federally owned conduit.

ORIGINAL PROJECT

The Narrows Road Pressure Reduction Station has not been licensed or exempted from the licensing requirements of Part I of the FPA, on or before August 9, 2013, the date of enactment of the Hydropower Regulatory Efficiency Act.

Project Information

(1) A detailed description of any conduits and associated consumptive water supply facilities, intake facilities, powerhouses, and any other structures associated with the facility.

The Narrows Road Pressure Reduction Valve (PRV) station is used to reduce the pressure in the public water supply distribution system due to the higher elevation of the Regional Water Treatment Plant (RWTP) above the lower lying City of Fitchburg. The RWTP is located off Hager Park Road in Westminster, MA, approximately 6,160 feet west of and 120 feet higher in elevation than the Narrows Road PRV station. The RWTP draws raw water from nearby Meetinghouse Pond, just west of Hager Park in Westminster, MA.

The two facilities are connected through a 30-inch ductile iron pipe. The treated water flows into the Narrows Road PRV station, which reduces the pressure to a suitable level for distribution to the public. In the Narrows Road PRV Station there are three pipes in parallel with PRV's that have diameters of 10, 16 and 24 inches. The 10-inch and 16-inch pipes both have 10-inch PRV's in line, the 16-inch handles most of the flow, while the 10-inch handles the higher flows. The 24-inch PRV has not been used in numerous years as the city's water demands have subsided with the closing of key paper mills.

(2) The purposes for which the conduit is used:

The conduit in which we propose to install a hydroelectric pump as turbine system is primarily used for municipal drinking water supply.

(3) The number, type, generating capacity (kW or MW), and estimated average annual generation (kWh or MWh) of the generating units you are proposing, including plans, if any, for future units:

A single hydroelectric pump as turbine is proposed with a nameplate generating capacity of 10kW. The estimated average annual generation of the proposed turbine is 65,297 kWh. There are not currently any plans for the installation of other units in the future.

(4) If your project is associated with any dam or impoundment, please provide a description of the nature and extent of the dam or impoundment, including the distance between the dam or impoundment and the proposed powerhouse, and a statement of the normal maximum surface area and normal maximum surface elevation of any existing impoundment before and after the hydroelectric facilities are installed. You must also provide **evidence that the dam or impoundment would be constructed or continue to exist for agricultural, municipal, or industrial consumptive purposes even if the hydroelectric generating facilities were not installed:**

The proposed project is not associated with a dam.

Existing Preliminary Permit or Permit Application Pending

If you have a preliminary permit for the facility or have applied for a preliminary permit, please provide the permit number below.

The facility does not currently hold, nor has it yet applied for any permits with FERC. This is the first application submitted to FERC for this facility.

Drawings, Maps, Diagrams

Include a set of drawings/maps/diagrams clearly showing the structures and equipment of the hydropower facility in relation to the existing conduit. Project drawings of the project must include:

- *A Plan View (overhead view) drawing of the proposed hydropower facilities. The drawing must include the following:*
 - *The hydropower facilities, including all intake and discharge pipes, and how those pipes connect to the conduit*
 - *The portion of the conduit in proximity to the facilities on which the hydroelectric facilities will be located*
 - *The dimensions (e.g. length, width, diameter) of all facilities, intakes, discharges, and conduits*
 - *Identification of all facilities as either existing or proposed*
 - *The flow direction labelled on intakes, discharges, and conduits*

Both an existing and a proposed diagram of the facility are attached. For the proposed diagram, the Alternate 1 Location will be used. The Alternate 2 Location and Alternate 3 Location should be ignored. These were alternates considered in the design and will not be used.

- *A Location Map showing the facilities and their relationship to the nearest town. The map must include the following:*
 - *The powerhouse location labeled, and its latitude and longitude identified*
 - *The nearest town, if possible, or other permanent monuments or objects, such as roads or other structures, that can be easily noted on the map and identified in the field*

Two location maps are attached to help identify the facility: a Geographical Location Map and a Parcel Location Map.

VERIFICATION

You must provide Verification in one of the following forms:

Either a sworn, notarized statement, which states:

1. As to any facts alleged in the application or other materials filed, be subscribed and verified under oath in the form set forth below by the person filing, an officer thereof, or other person having knowledge of the matters set forth. If the subscription and verification is by anyone other than the person filing or an officer thereof, it shall include a statement of the reasons therefor.

This (notice of intent to construct, etc.) is executed in the:

State of: _____

County of: _____

by: (Name) _____
(Address) _____

being duly sworn, depose(s) and say(s) that the contents of this (notice of intent to construct, etc.) are true to the best of (his or her) knowledge or belief. The undersigned applicant(s) has (have) signed the (notice of intent to construct, etc.) this _____ day of _____, 20____.

By: _____

Subscribed and sworn to before me, a _____ [Notary Public, or title of other official authorized by the state to notarize documents, as appropriate] of the State of _____ this day of _____, 20____.

/SEAL/ [if any]

(Notary Public, or other authorized official)

Or an unsworn declaration in the following form:

2. "I declare (or certify, verify, or state) under penalty of perjury that the foregoing is true and correct. Executed on 11/28/2017 [date]."

John M. Delina Jr.
(Signature)

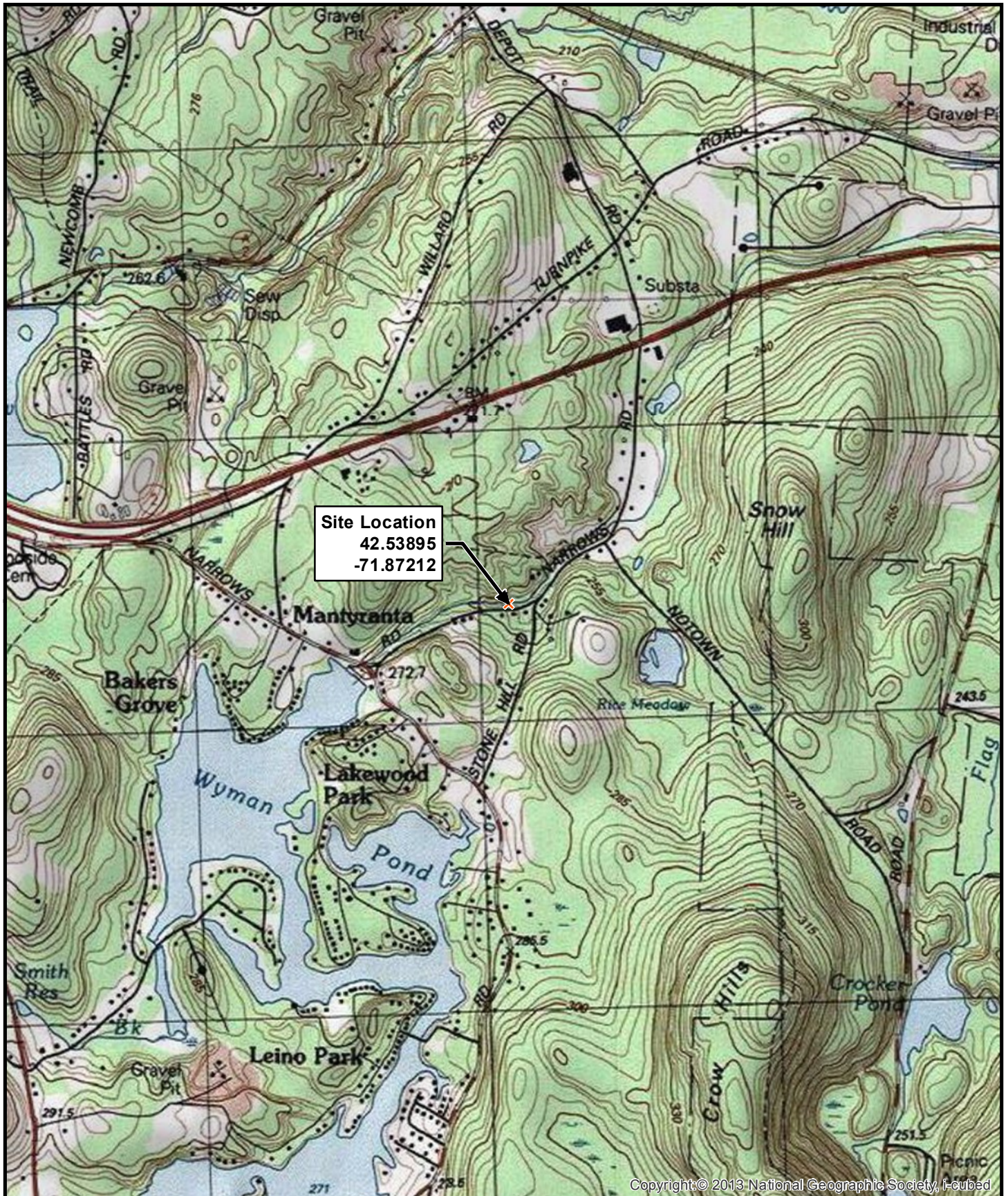
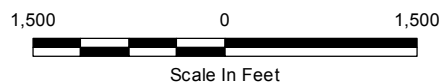


FIGURE 1
NARROWS ROAD PRV STATION
CITY OF FITCHBURG, MASSACHUSETTS
Westminster, MA

GEOGRAPHICAL LOCUS MAP



WESTMINSTER

9

182

169

16

14

157

155

4

15

11

9

Site Location
42.53895°
-71.87212°

Narrows Road

Hanks Hill Road

Stonehill Road

137

139

141

145

147

151

153

5





19

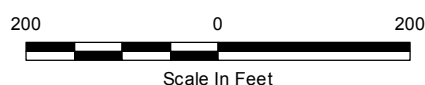
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FIGURE 2
NARROWS ROAD PRV STATION
CITY OF FITCHBURG, MASSACHUSETTS
Westminster, MA

PARCEL LOCUS MAP

-  Buildings
-  Parcel
-  Marsh/Bog
-  Wooded marsh



Weston & Sampson