

Article 28

NAGOG POND WATER TREATMENT FACILITY, INTAKE PIPING AND RESERVOIR IMPROVEMENTS



ARTICLE 28. To determine whether the Town will vote to appropriate the sum of \$16,500,000, or any other sum, for the construction of water supply and water treatment facilities and improvements associated with the Nagog Pond water filtration plant, Nagog Pond water intake piping and Annursnac and Pine Hill reservoir improvements, including engineering, regulatory and other related services and costs necessary for said facilities and improvements; and that to meet this appropriation the Treasurer with approval of the Select Board be authorized to borrow the sum of \$16,500,000 under the provisions of Massachusetts General Laws and Acts in amendment thereof or in addition thereto, Chapter 44, Section 8, said funds to be expended under the direction of the Town Manager, or take any other action relative thereto.

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The \$16,500,000 debt authorization, with debt service to be paid from the Water Enterprise Fund, will provide funding for construction and construction phase engineering services for the following projects:

- 1) the construction of the Nagog Pond water treatment facility, maintaining the Town's ability to utilize Nagog Pond, as a reliable, high quality water supply capable of providing the Town of Concord in excess of 1 million gallons of drinking water per day;
- 2) the replacement of the 16" Nagog Pond raw water intake pipeline which extends approximately 1,400 feet from the Nagog Dam gatehouse into Nagog Pond. The dam was constructed and the pipeline placed during the early 1900s;
- 3) rehabilitation of the Annursnac and Pine Hill water storage tanks to include mid-term repairs such as structural concrete repair and coating to the 2.5-million gallon Annursnac tank and I minor rehabilitation to the million gallon Pine Hill tank.

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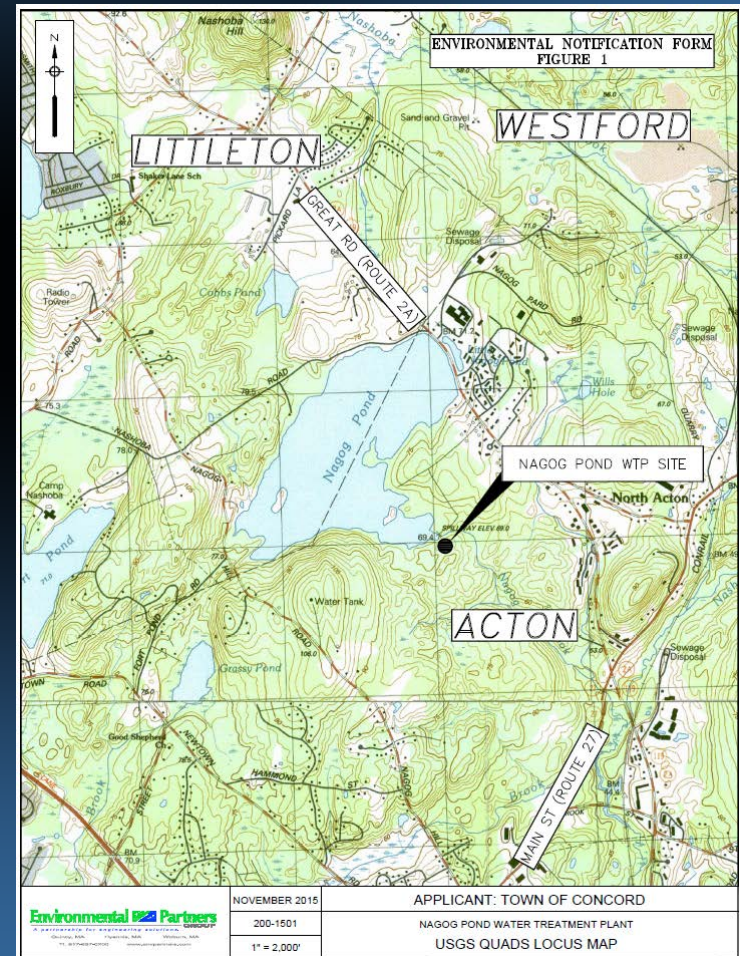
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Concord petitioned the Commonwealth of Massachusetts for water rights to Nagog Pond in Acton, MA

The Town of Concord ... may take and hold the waters of Nagog Pong ... to increase its water supply.

Chapter 201, Acts of 1884



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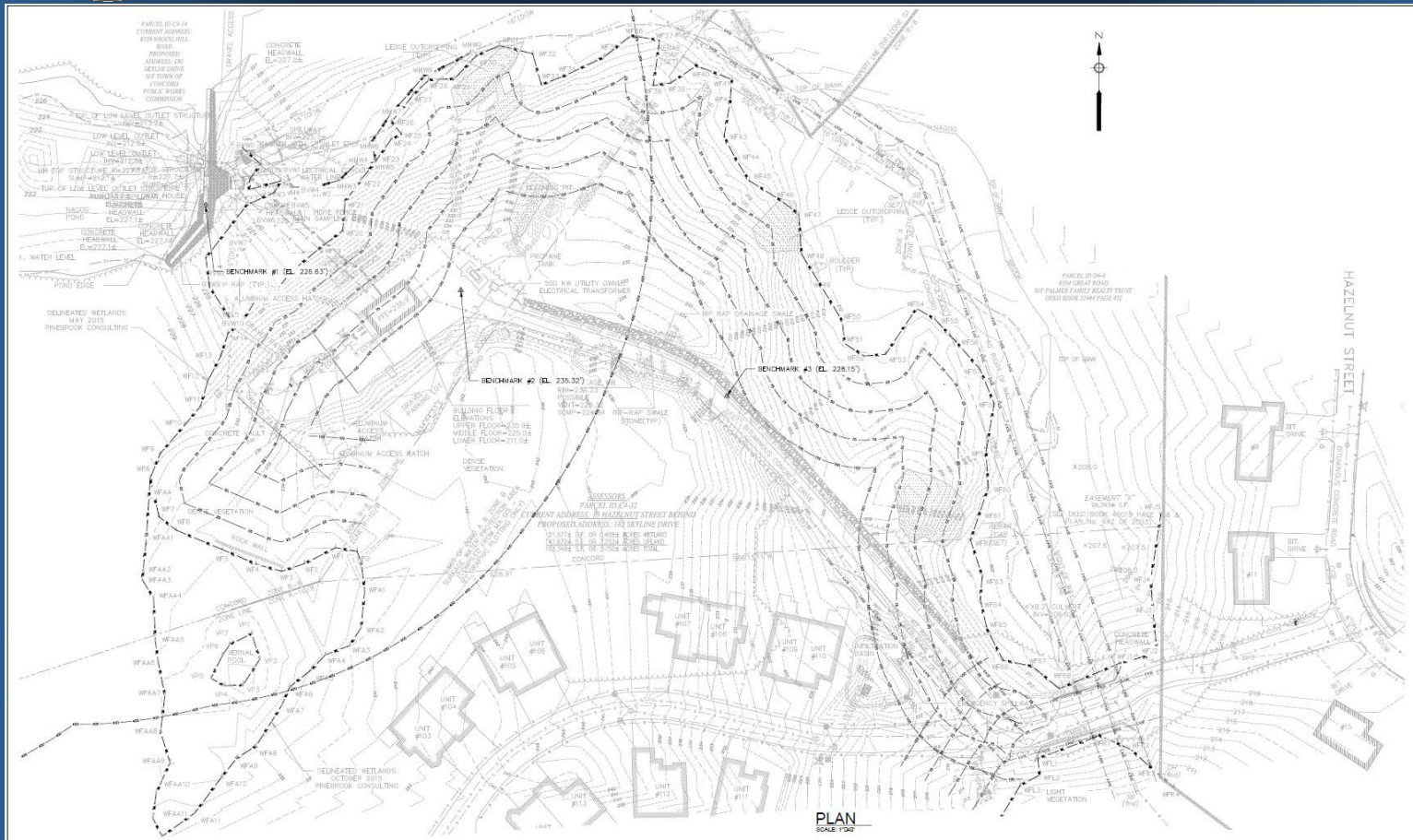
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Existing Ozone Facility – mid 1990's

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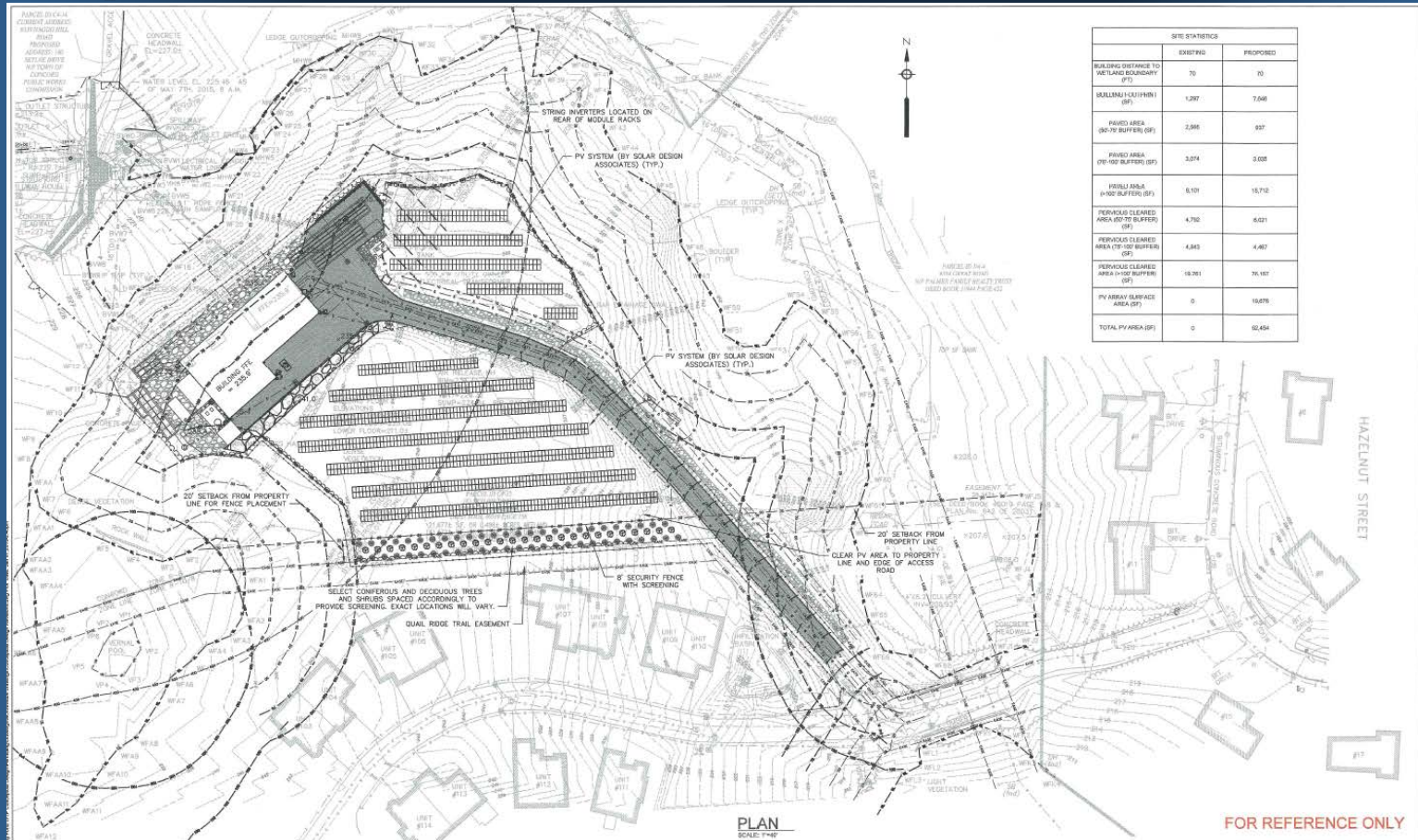
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Existing Treatment Plant Site Conditions

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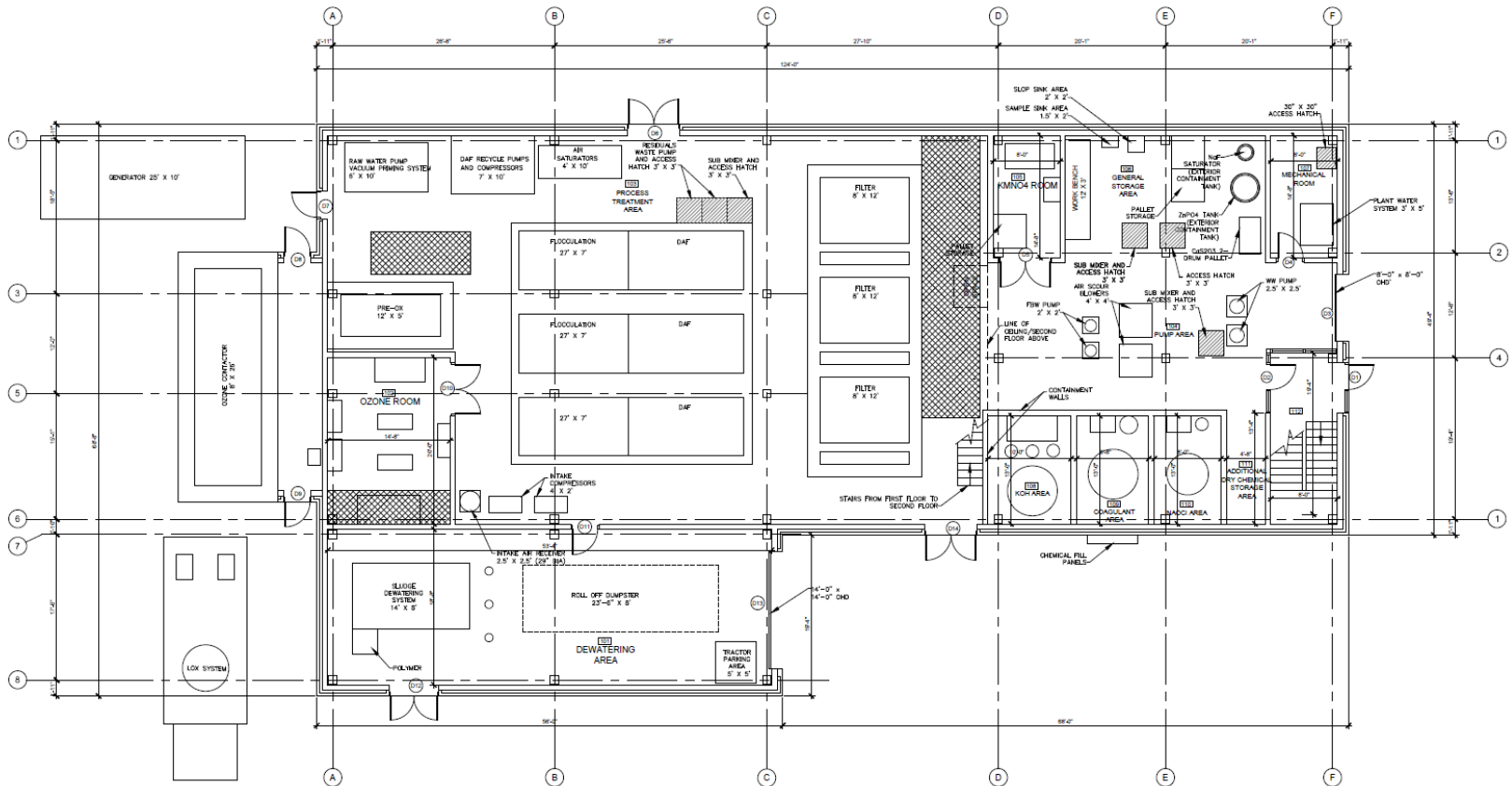
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Proposed Treatment Plant Site Conditions

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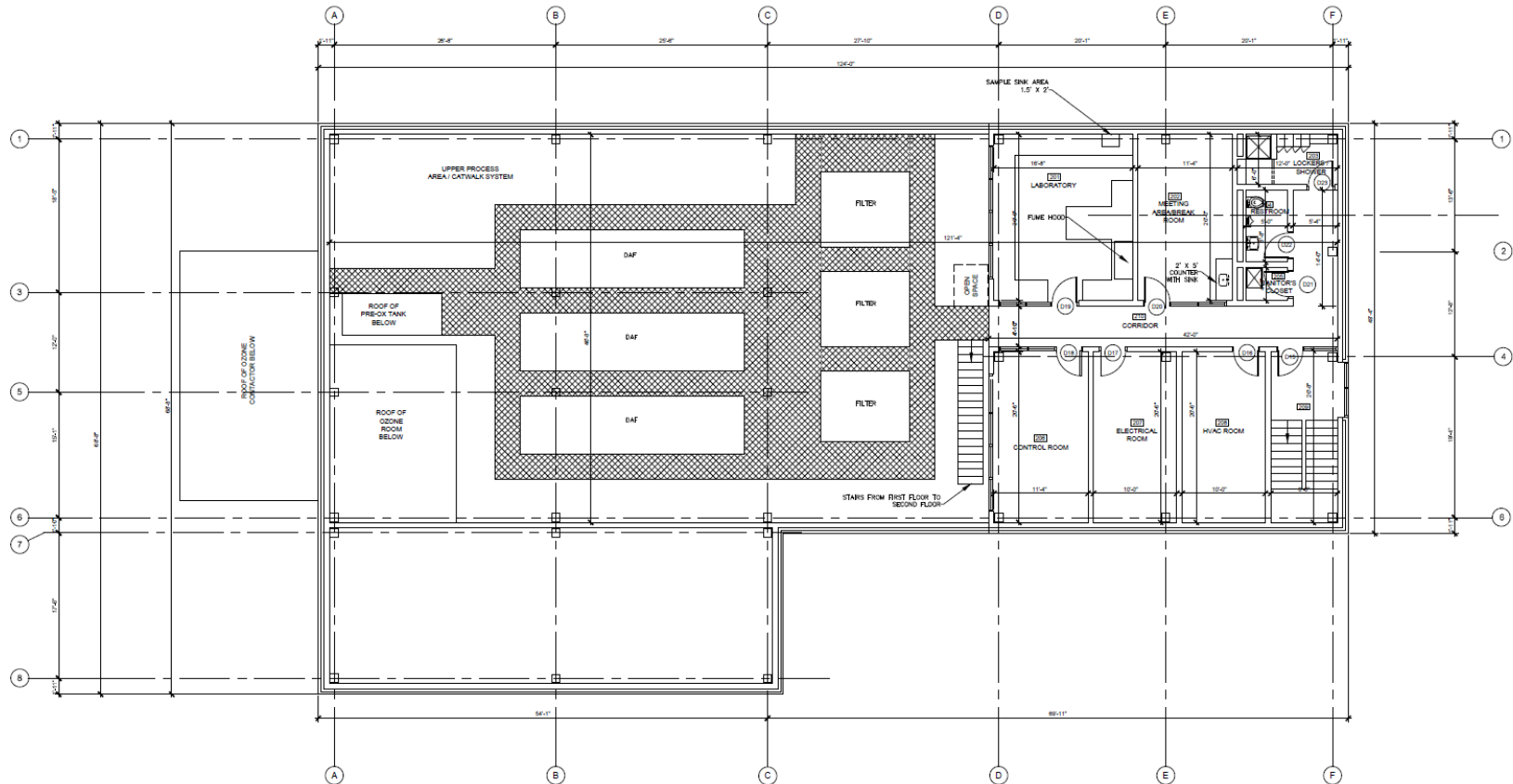
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Filtration Facility Floor Plan – Ground Floor

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Filtration Facility Floor Plan – Second Floor

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Existing Site Plan

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Filtration Facility Concept Elevation – Preferred

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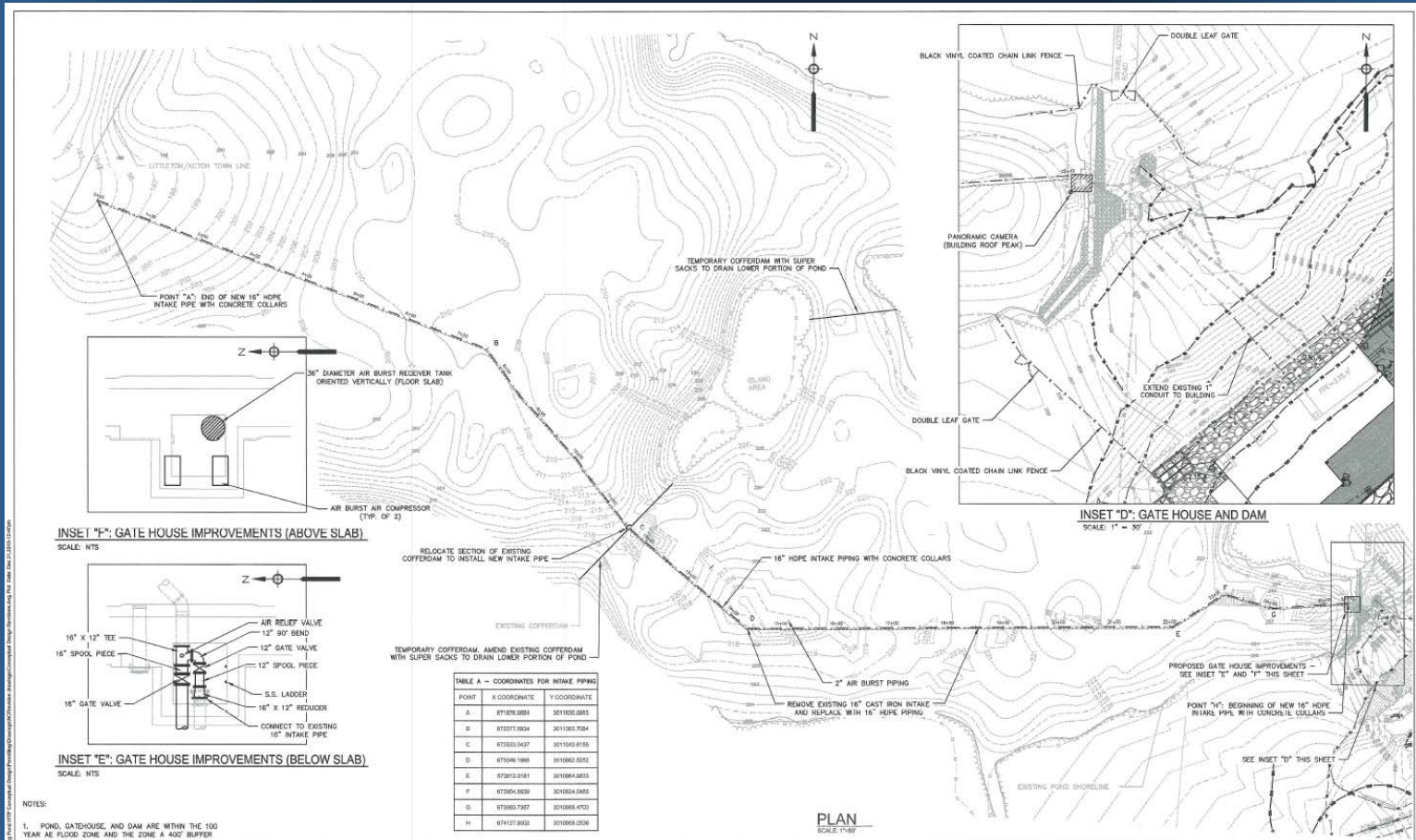
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Existing Intake Conditions

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Intake Location

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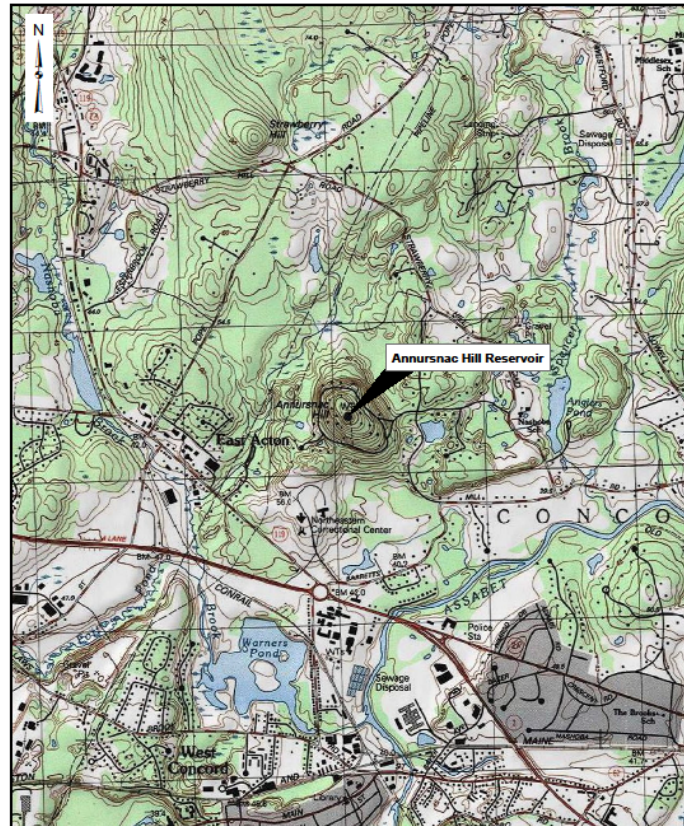
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Intake Installation

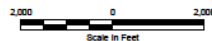
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TOWN OF CONCORD, MASSACHUSETTS

**ANNURSNAC HILL
RESERVOIR**



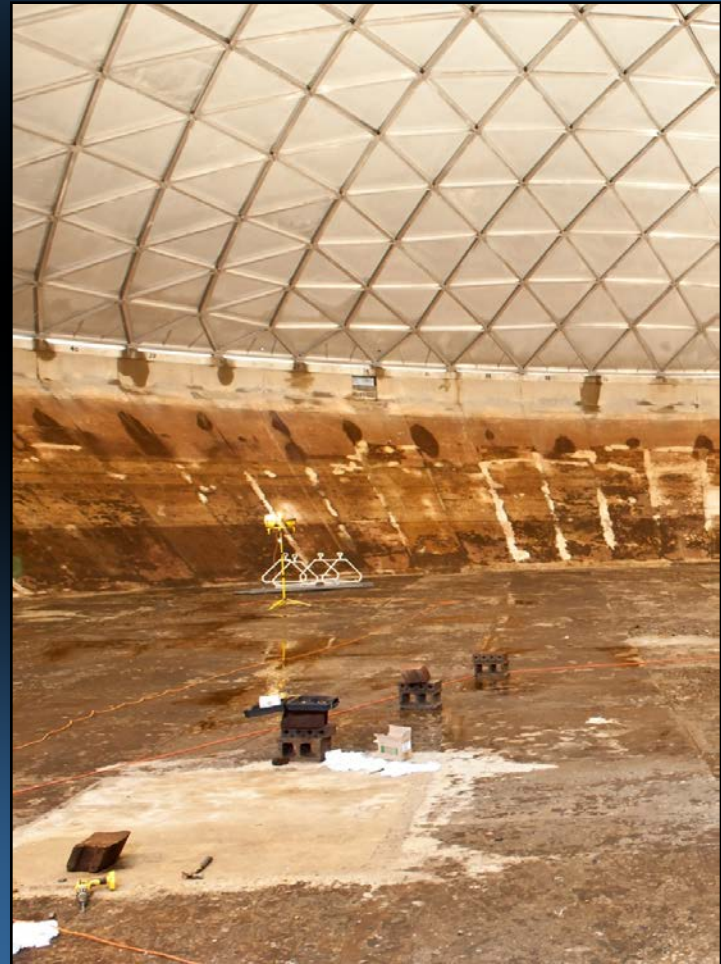
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The request includes the following capital improvements:

- \$ 13,533,000** – **New Nagog Water Treatment Plant**
 - \$12.5 M* – *Construction*
 - \$ 1.0 M* – *Engineering Construction Services*

- \$ 1,850,000** – **Replacement of Nagog Pond Water Intake Piping**
 - \$ 1.6 M* – *Construction*
 - \$ 0.2 M* – *Engineering Construction Services*

- \$ 958,000** – **Annursnac Reservoir Improvements**

- \$ 159,000** – **Contingency**

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Questions

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