

Straightway & Hyannisport Water Treatment Facilities - Improvements Project

Public Informational Meeting

August 6, 2024 6:00 PM
Zoom



Town of Barnstable
Department of Public Works
Water Supply Division – Hyannis Water System



Engineer: Kleinfelder, Inc.



Continuing a Program of Community Drinking Water Improvements

- Quality
- Reliability
- Resiliency



Interpretation for this meeting is available / A interpretação para esta reunião está disponível / Hay interpretación disponible para esta reunión

How to listen to Language Interpretation

In your meeting/webinar controls, click **Interpretation**.

Click the language that you would like to hear. (Optional) To hear the interpreted language only, click **Mute Original Audio**.



Notes:

- You must join the meeting audio through your computer audio/VoIP. You cannot listen to language interpretation if you use the dial-in or call me phone audio features.
- As a participant joining a language channel, you can broadcast back into the main audio channel if you unmute your audio and speak.

Como ouvir a interpretação de idioma

Nos controles da sua reunião/webinar, clique em **Interpretação**.

Clique no idioma que você gostaria de ouvir. (Opcional) Para ouvir apenas o idioma interpretado, clique em **Silenciar áudio original**.

Notas:

- Você precisa acessar o áudio da reunião através do áudio do seu computador/VoIP. Você não pode ouvir a interpretação de idioma se você usa os recursos de áudio de telefone [discagem](#) ou [ligar para mim](#).
- Como um participante acessando um canal de idioma, você pode transmitir de volta para o canal de áudio principal se você ativar o seu áudio e falar.

Cómo escuchar la interpretación de idiomas

En los controles de la reunión o el seminario web, haga clic en **Interpretación**.

Haga clic en el idioma que desee escuchar. (Opcional) Para escuchar solo el idioma interpretado, haga clic en **Silenciar audio original**.

Notas:

- Debe unirse al audio de la reunión a través de audio/VoIP del equipo. No puede escuchar la interpretación de idiomas si utiliza las funciones de audio de teléfono marcar o recibir llamada.
- Como participante que se une a un canal de idioma, puede transmitir de nuevo en el canal de audio principal si reactiva el audio y habla.

Tonight's Presenters & Agenda

Town of Barnstable – Department of Public Works

- Matt Wrobel, PE, Sr. Project Manager
- Hans Keijser, DPW Water Supply Division Supervisor

Kleinfelder – Engineering Consultant

- Kirsten Ryan – Sr. Project Manager
- Kate Riley – Community Relations

Interpreters:

- Maurita Chukwuezi, Portuguese
- Natasha Mejia-Alvarez, Spanish

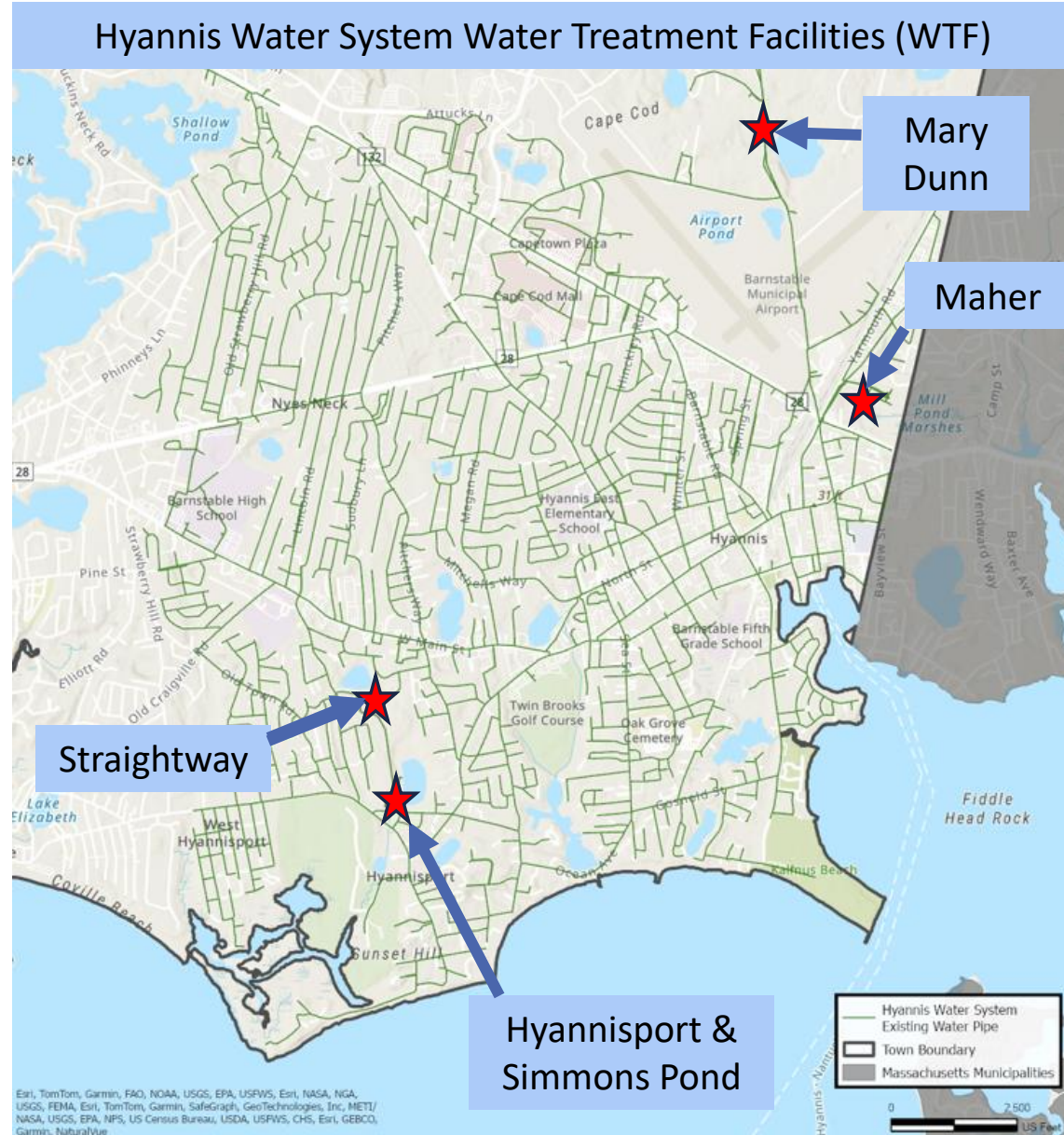
Agenda

1. Hyannis Water System Overview
2. Project Overview
3. Project Purpose and Benefits
4. Existing Conditions & Improvements
5. Project Schedule & Next Steps
6. Where to Find more Information
7. Questions?

Where does my tap water come from?

The Town of Barnstable's Hyannis Water System

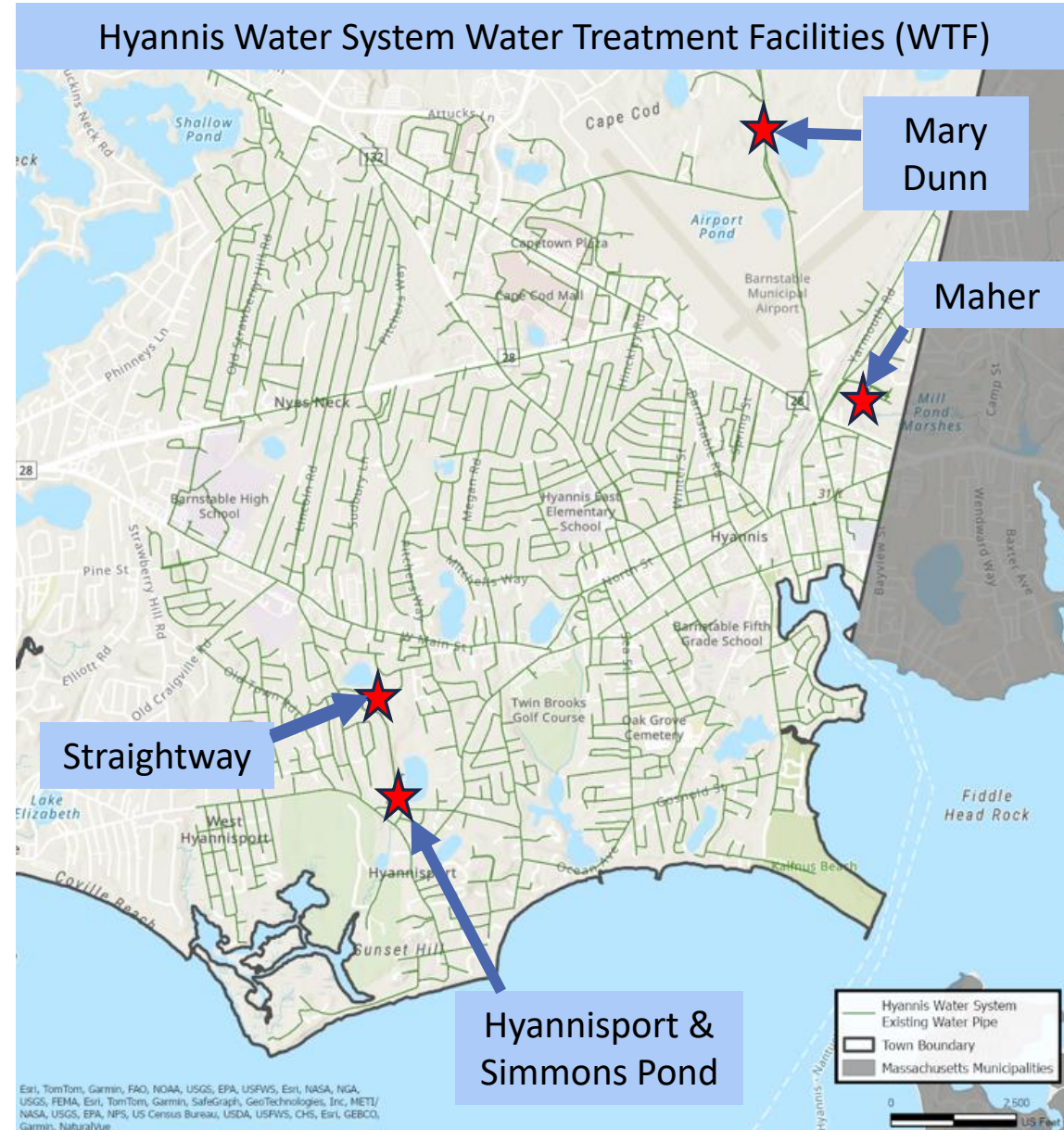
- Serves approximately 18,000 people year-round
- Serves approximately 35,000 people in summer
- 119 miles of water mains (pipes)
- Meets all state and federal health regulations



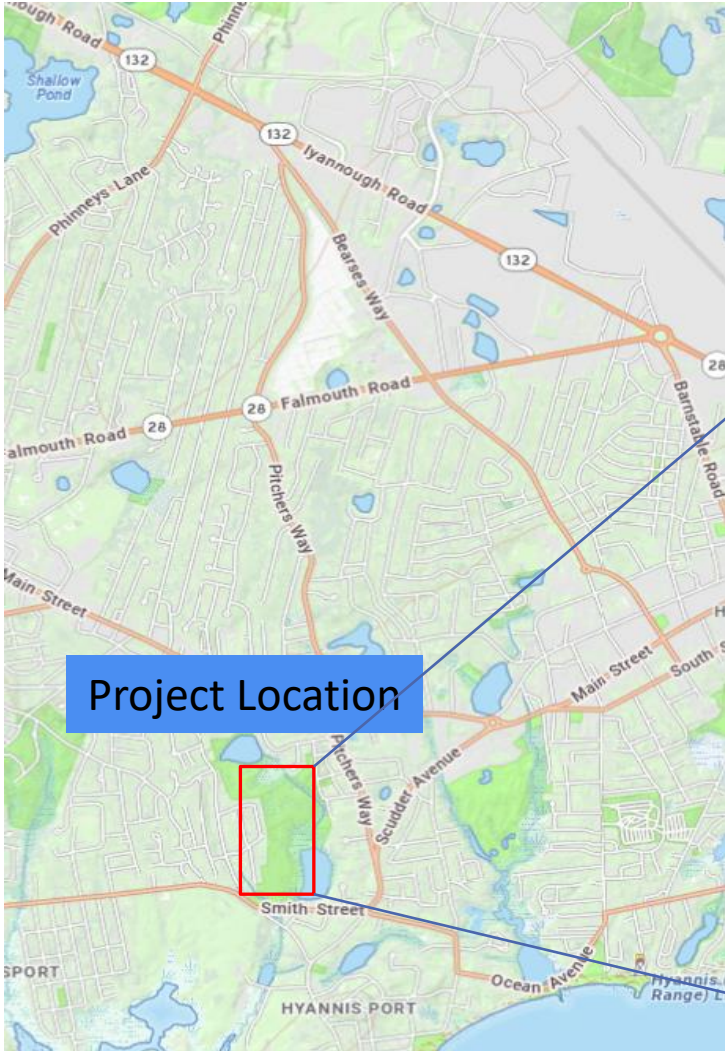
Where does my tap water come from?

Town of Barnstable's Hyannis Water System (HWS):

- 12 wells at 4 water treatment facility (WTF) locations
- 6 treatment buildings
- Due to increases in water usage during the summer months, all Hyannis Water System wells and treatment facilities must operate continuously to meet demand.
- HWS has been constructing upgrades in stages to improve water quality, reliability, and resiliency while maintaining operations.

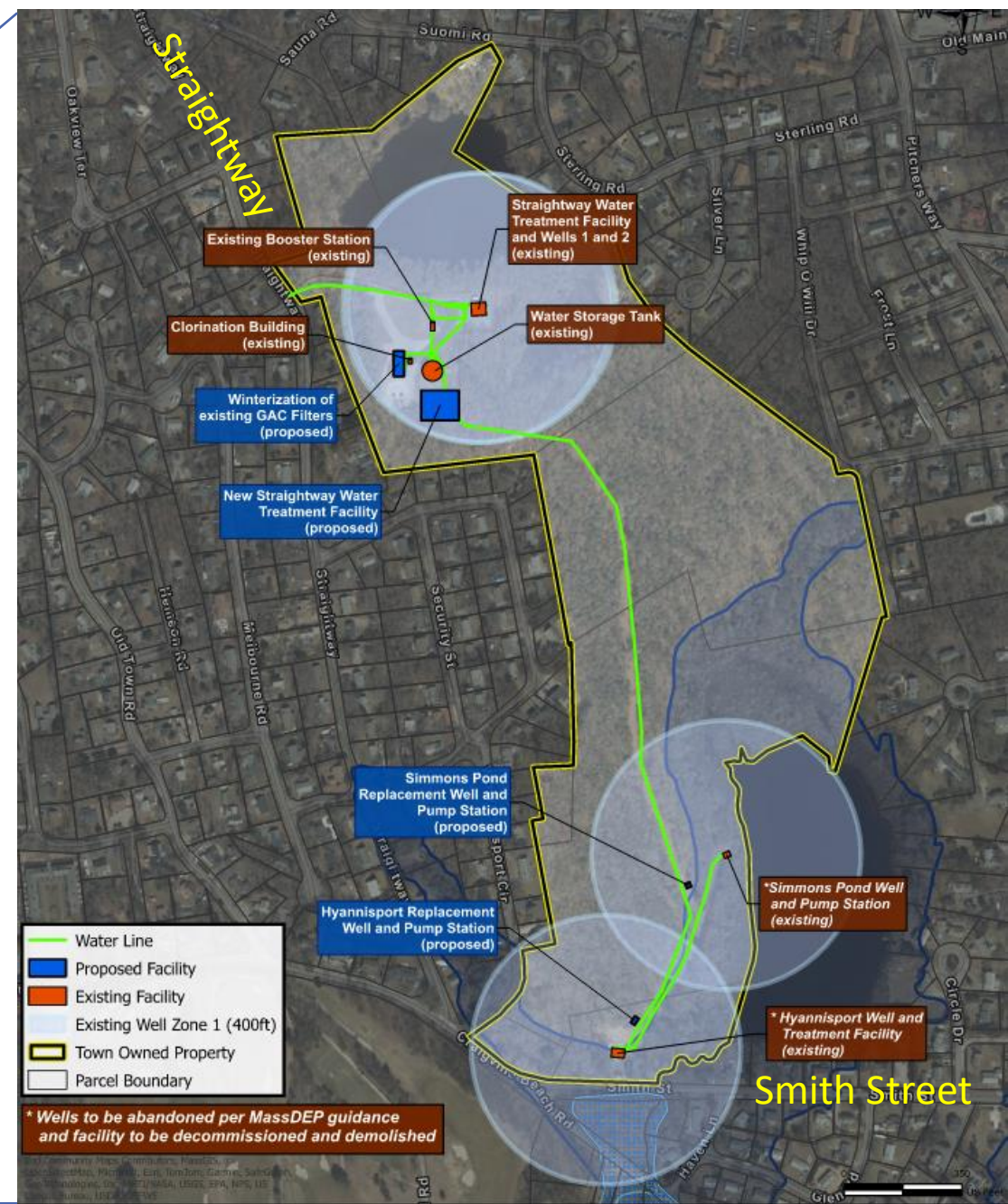


Project: Straightway & Hyannisport Treatment Facilities Improvements Overview



Project Location

- Existing Infrastructure:
- 4 wells
 - 3 treatment buildings
 - 2 pump stations
 - 1 tank
 - 1 set of unwinterized PFAS filters



Straightway-Hyannisport Project Purpose

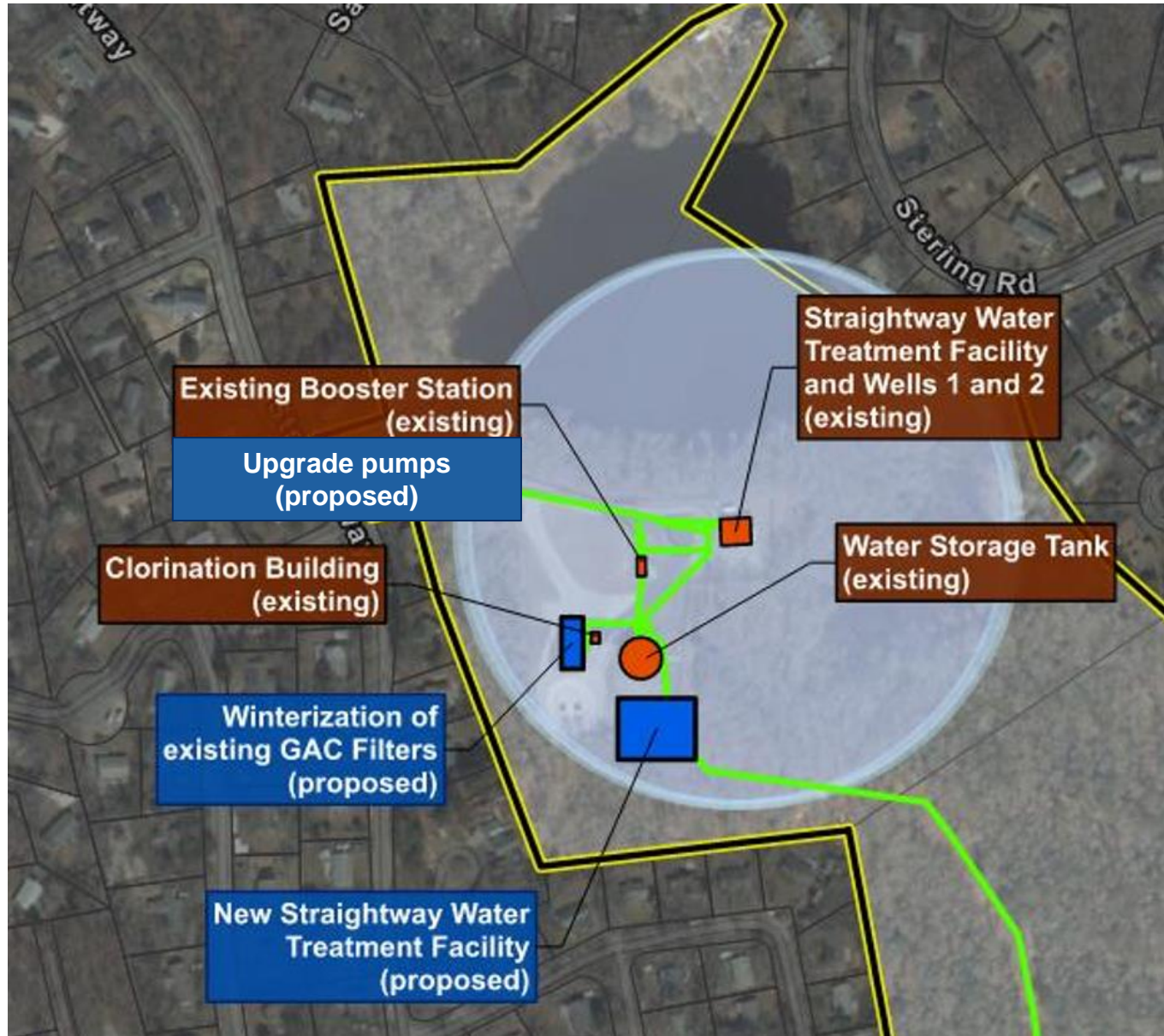
Project Improvements Will:

- Maximize the permitted capacity of the Hyannis Water System
- Increase the amount of water that the wells can supply
- Allow the water treatment facility to be operated year-round
- Improve the water treatment process to further improve water quality
- Protect the wells and buildings from flooding
- Improve overall system resiliency

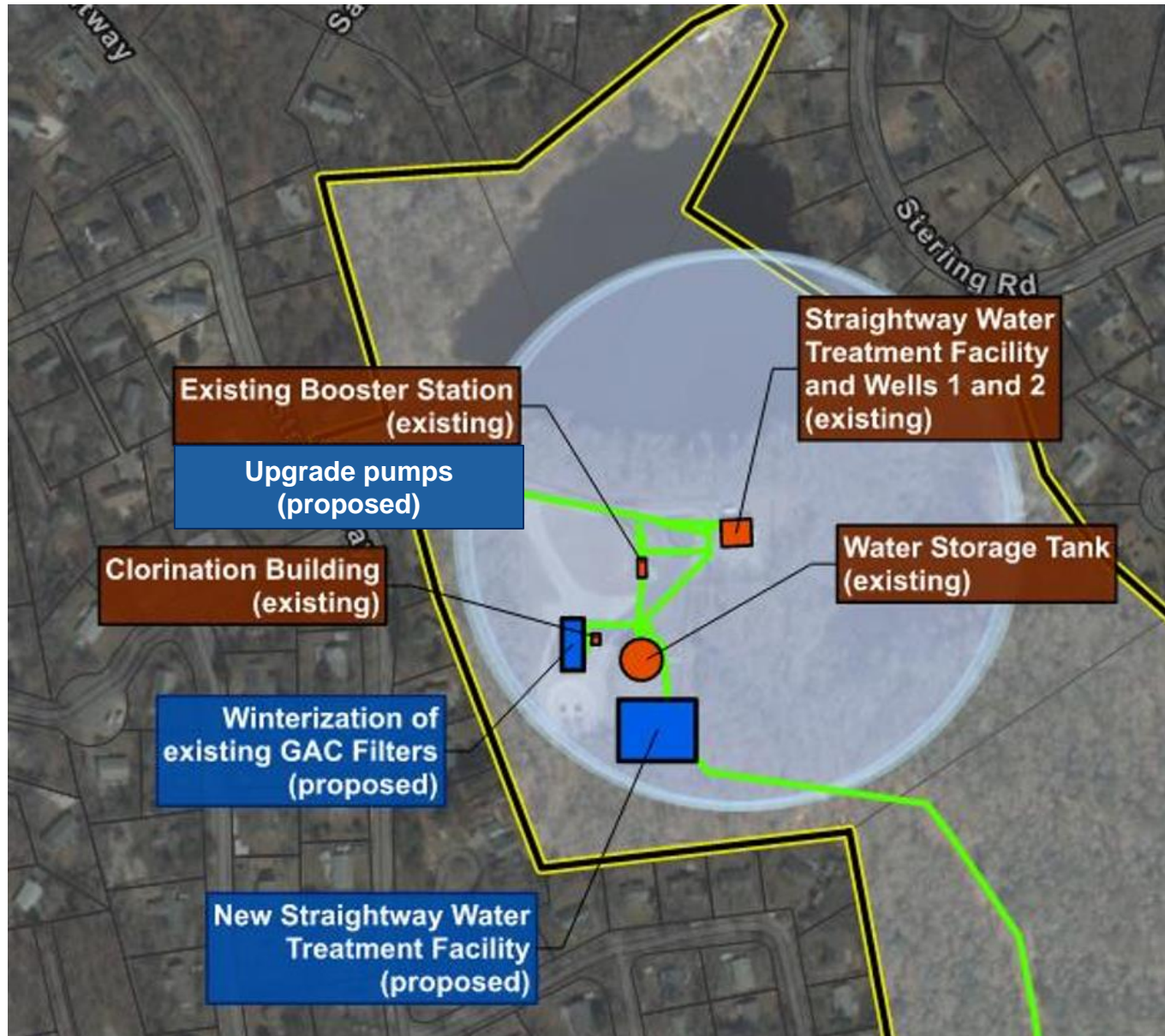
Straightway-Hyannisport Project Need & Benefits

Need or Challenge	Solution
The facility cannot be used year-round because PFAS filters are unwinterized.	✓ Build enclosure over PFAS filters.
2 of the 4 wells (Simmons Pond & Hyannisport) are not supplying enough water.	✓ Replace the wells with new wells to maximize the permitted capacity.
SP & HP Wells and Hyannisport WTF are located within areas prone to flooding.	✓ Locate the new wells at higher elevation out of the floodplain. Relocate all treatment to the Straightway site which is at a higher elevation.
Naturally occurring iron and manganese are clogging the PFAS filters, making them more expensive to operate	✓ Add pre-filters to remove iron & manganese
1,4 –dioxane levels are close to the MA guideline of 0.3 mg/L	✓ Add new treatment technology to remove 1,4-dioxane
Treatment and pumping is undersized.	✓ Add more treatment and pumping capability to maximize the permitted capacity.

Straightway Site – Existing Conditions



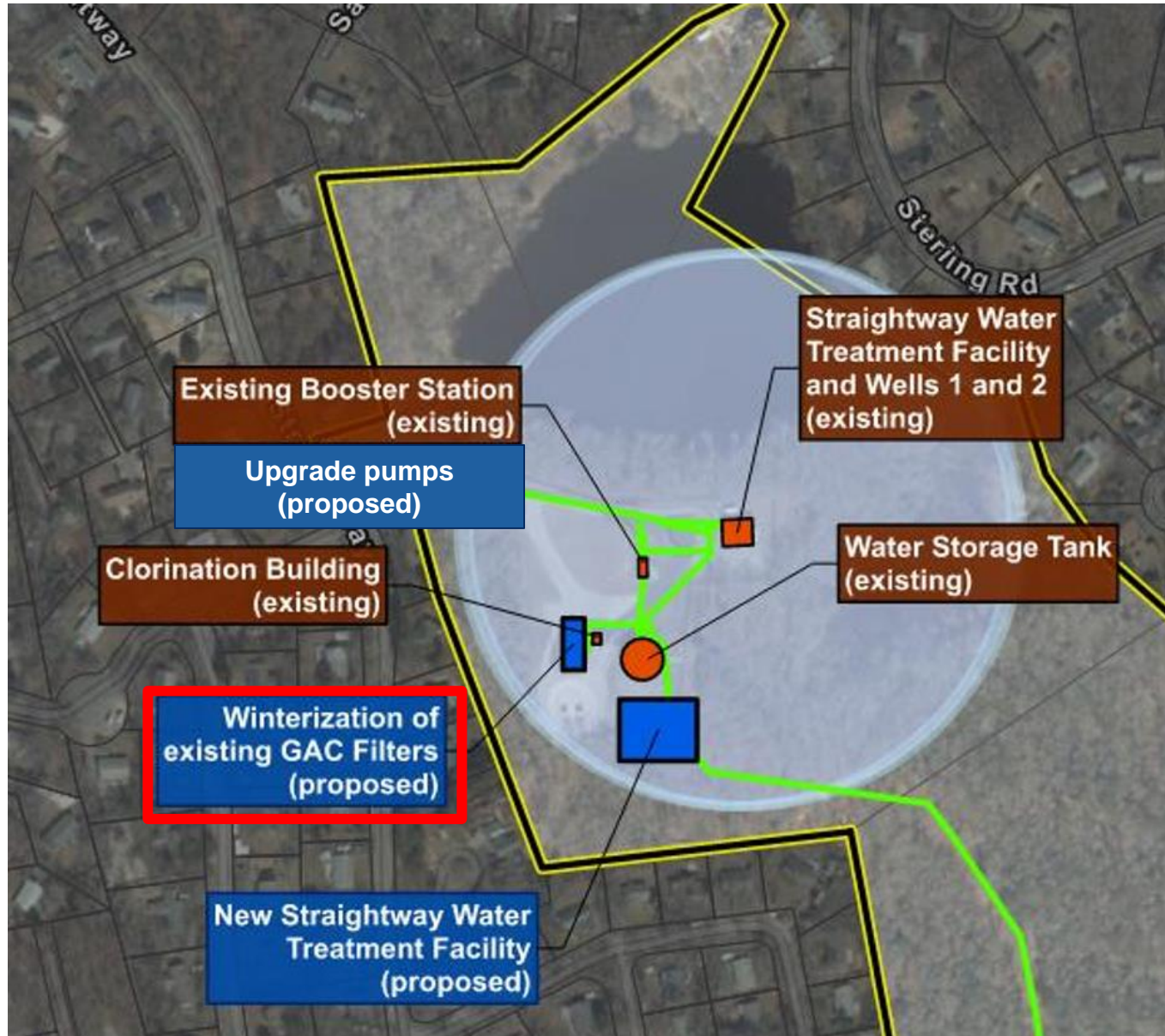
Straightway Site – Existing Conditions



Existing GAC PFAS filters are unwinterized, so the Straightway & Hyannisport Water Treatment Facilities must be turned off from October to April.

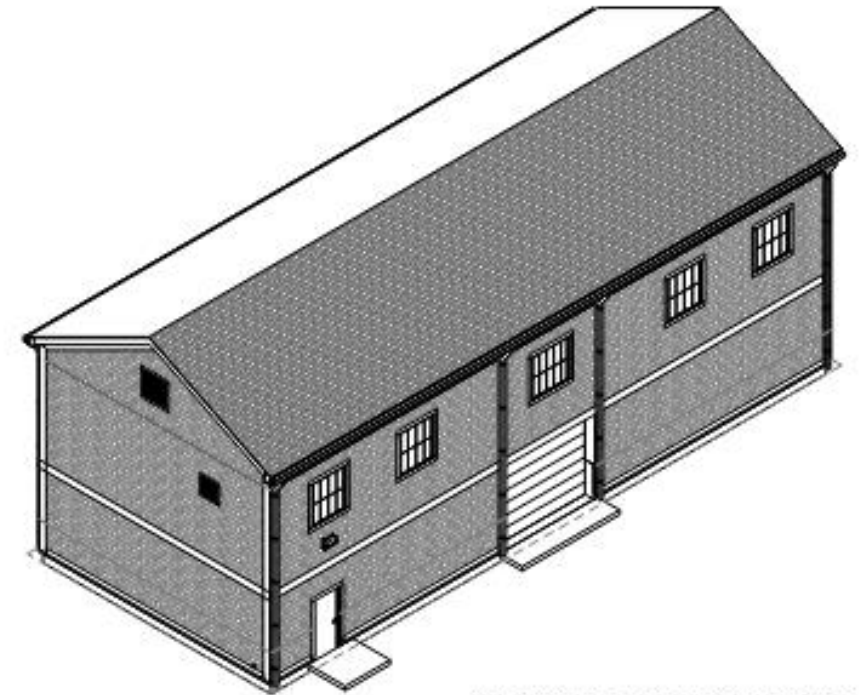


Straightway Site – Project Improvements



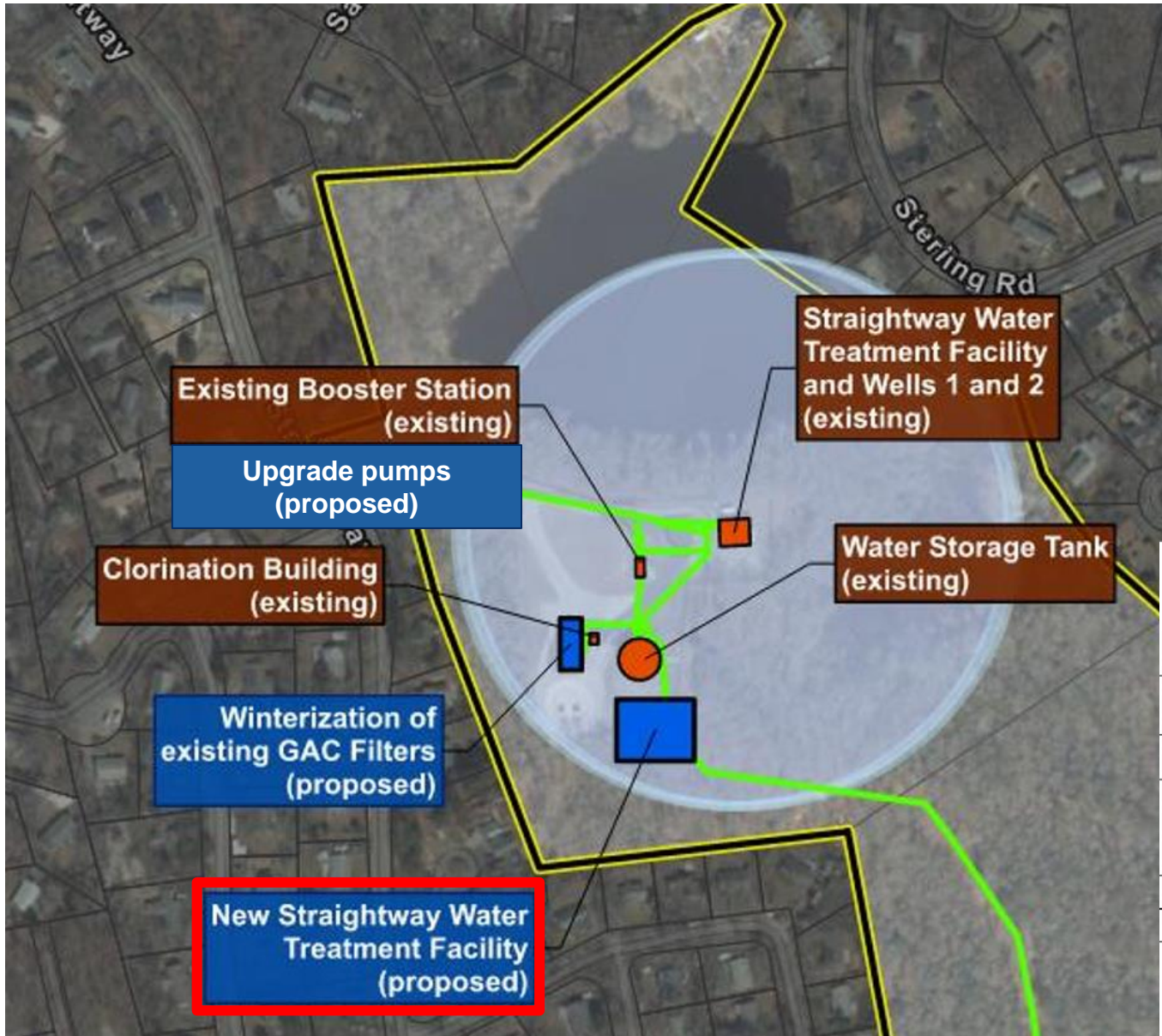
Winterization of Existing PFAS filters

- Add climate-controlled enclosure on existing slab to existing PFAS units at Straightway
- Critical for year-round resiliency
- Completion of the emergency project constructed in 2019



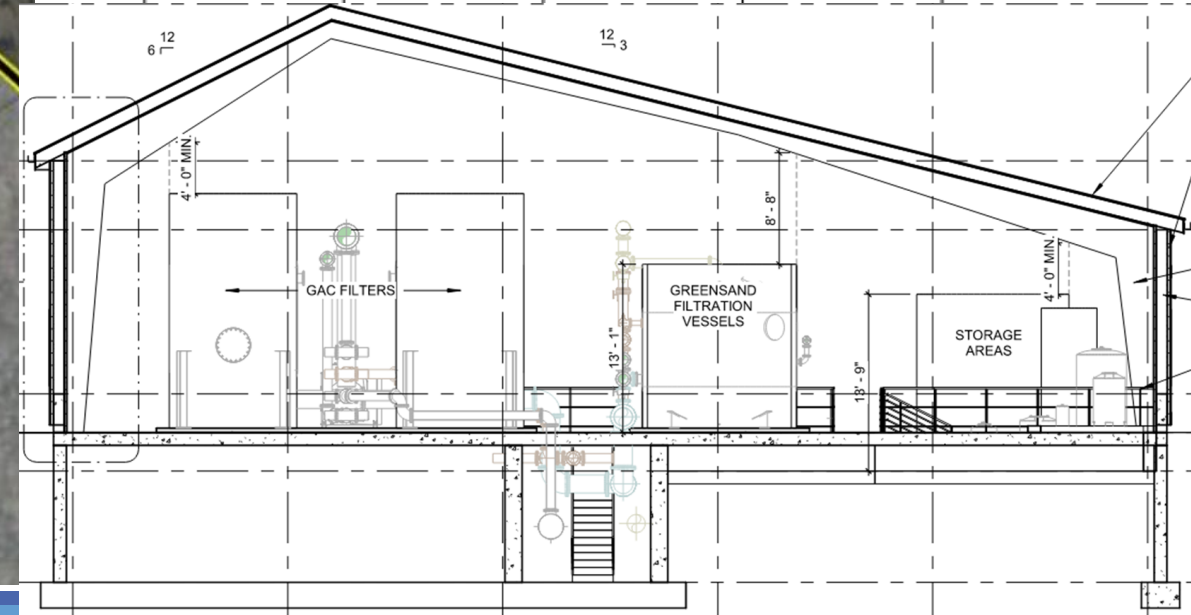
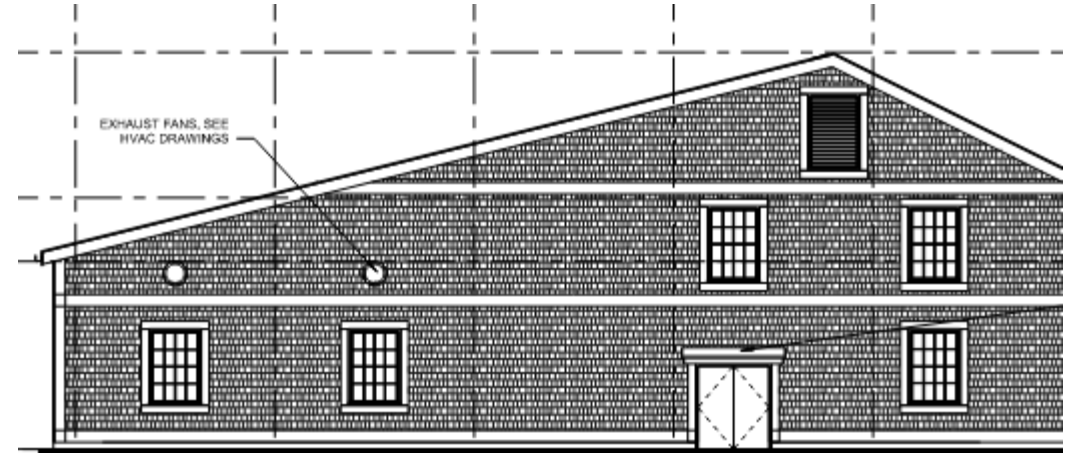
AXONOMETRIC - NORTH WEST CORNER
SCALE: NTS

Straightway Site – Project Improvements



New Straightway Treatment Facility

- Increased treatment capacity (4MGD)
- New removal of iron, manganese, 1,4-dioxane



Hyannisport Site – Existing Conditions

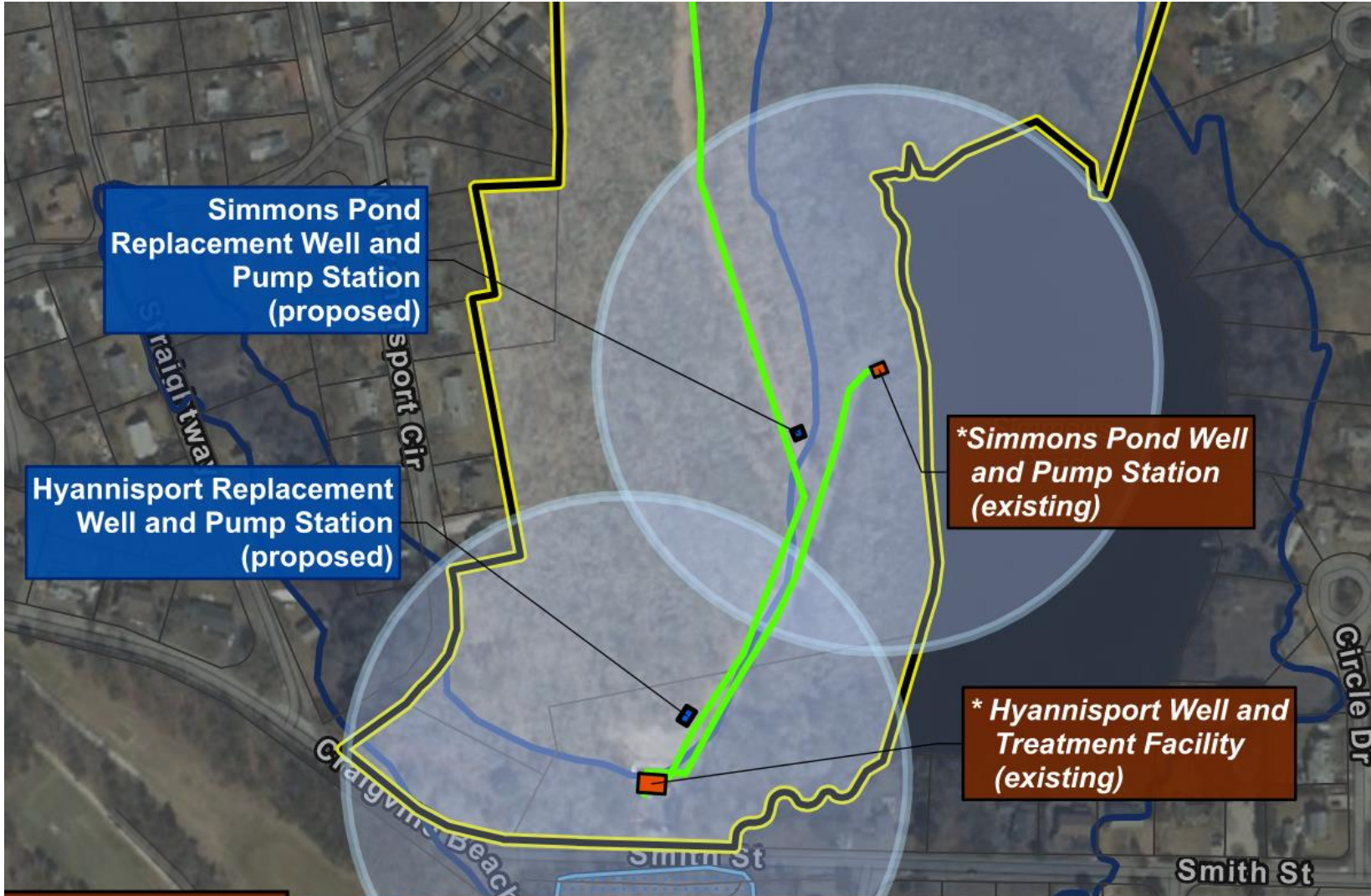
Existing wells and buildings are prone to flooding. Well yields currently are reduced due to plugging of the well screens and aquifer.



Simmons Pond Pump Station



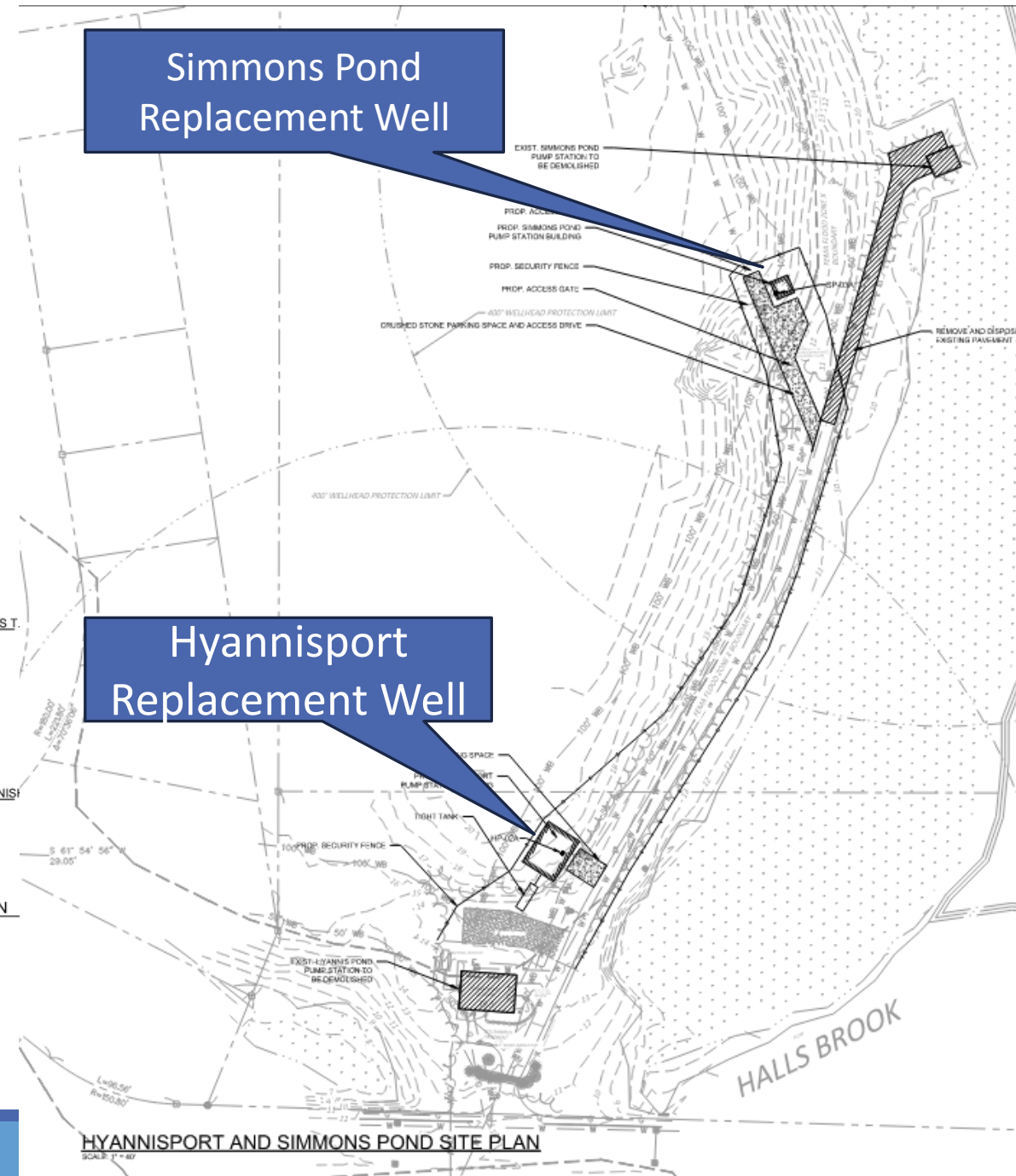
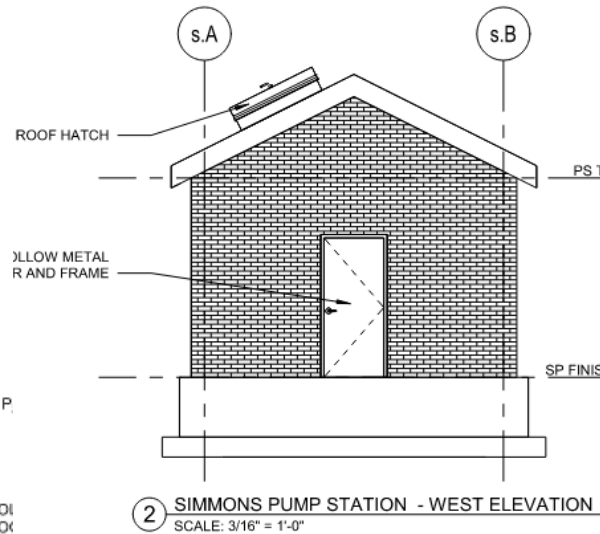
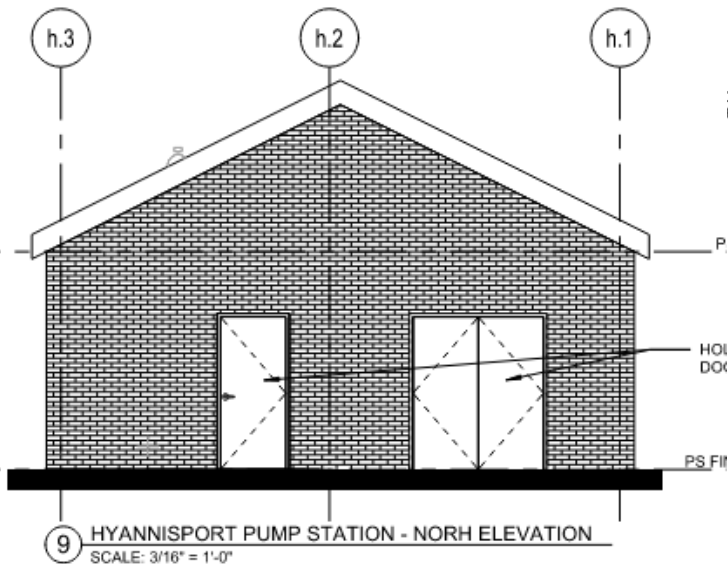
Hyannisport Well & Treatment Building



Hyannisport Site – Project Improvements

Hyannisport & Simmons Pond Replacement Wells and New Pump Stations

- Redrill wells at higher elevations out of floodzone
- New pump stations will send water to the new Straightway WTF
- New backup generator



Project Schedule & Next Steps

- August 2024:
 - Design is in progress towards 60%
- September 2024:
 - filing Environmental Notification Form / Environmental Impact Report
 - Anticipated Public comment period 9/11 – 10/11/24
- Fall – Winter 2024:
 - Final Design & Permit Approvals
- Spring – Summer 2025:
 - Bidding and Contract Award
- Fall 2025 – Construction start. Approximately 2-year duration.

For More Information:

townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp



A screenshot of the Town of Barnstable website. The header includes the town logo, the text "Welcome to The Town of Barnstable!", a search bar, and social media sharing options (Share, Tweet, Email). The navigation menu includes Home, Departments, Boards & Committees, Town Calendar, Property Lookup, Employment, Contact Town Hall, and Accessibility. The main content area is titled "Public Works Water Supply Division" and lists the supervisor, Hans Keijser, with contact information. Below this, there are several dropdown menus for "News and Updates", "Reports and Regulations", "Conservation", and "Pay Your Water Bill". The right side of the page features a section titled "Straightway Water Treatment Plant" with a list of documents and reports, including public outreach mailers in English, Portuguese, and Spanish, and environmental justice screening forms.

Thank you!

Questions?