Get the Facts on the South Fork Wind Farm!

An Informational Session on

New York's First Offshore Wind Farm

Thursday, January 7th
6:00pm - 7:30pm

CITIZENS CAMPAIGN FOR THE ENVIRONMENT

GROUP FOR THE EAST END

reLI renewable energy Long Island

WIN WITH WIND WE NEED IT!

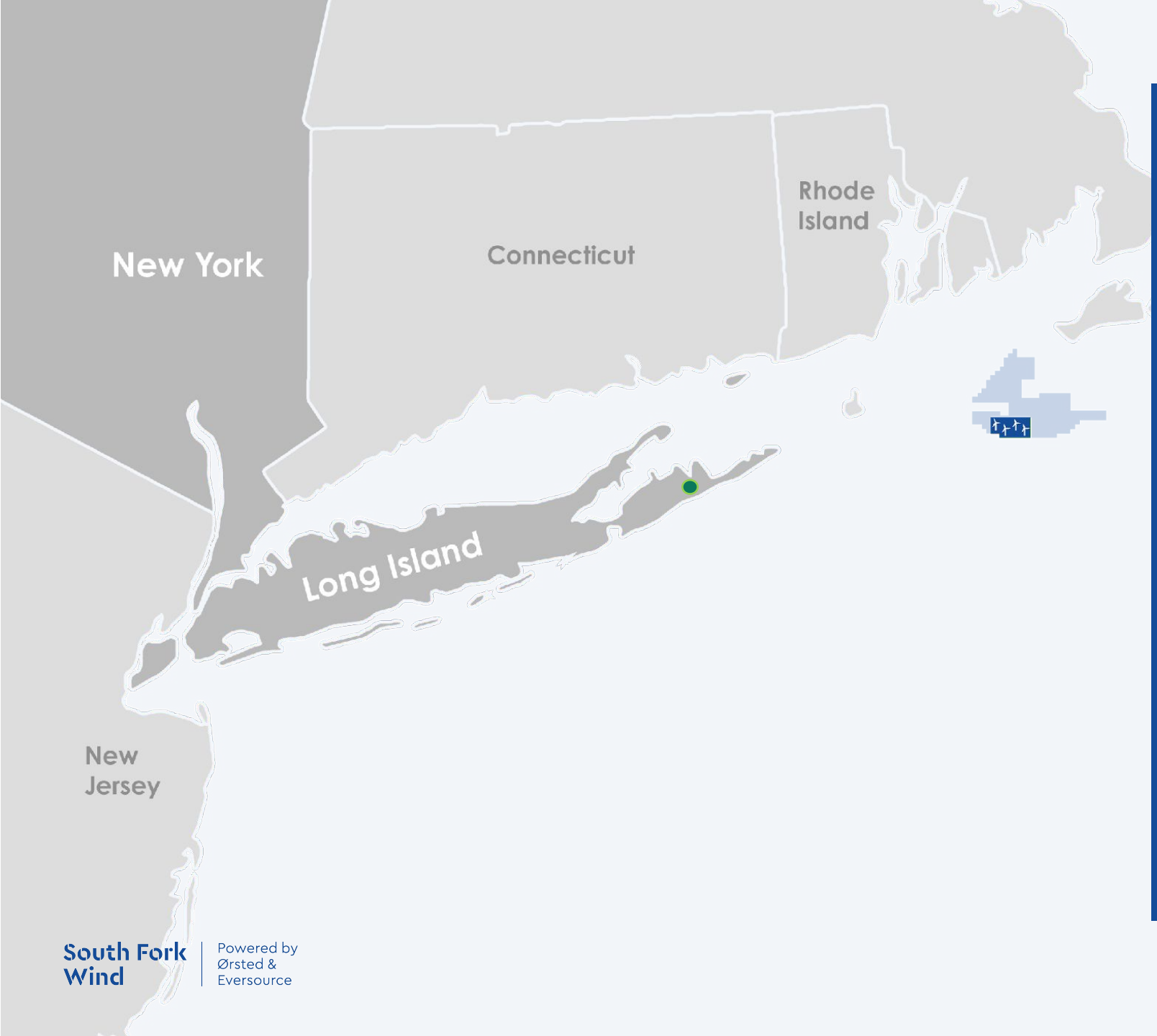
NYLCVEF EDUCATING FOR THE ENVIRONMENT

South Fork Wind

A Joint Venture of Ørsted and Eversource

NY League of Conservation Voters Forum
January 7, 2020

South Fork Wind | Powered by Ørsted & Eversource



New York's First Offshore Wind Farm

- Up to 15 Turbines located 35 miles <u>east</u> of Montauk Point
- 132MW delivered output: Power for 70,000 homes annually
- Power delivered to the East Hampton Substation; contract with LIPA
- Single, 138kV transmission line
- Operational December 2023

South Fork Wind | Powered by Ørsted & Eversource

Project Components in East Hampton

1. Sea-to-Shore Transition

- 2500 Ft Horizontal Directional Drill (HDD) – Begins in road 500 ft landward of dunes, ends 1750 feet (1/3 mile) offshore of beach
- HDD Work Zone on Beach Lane

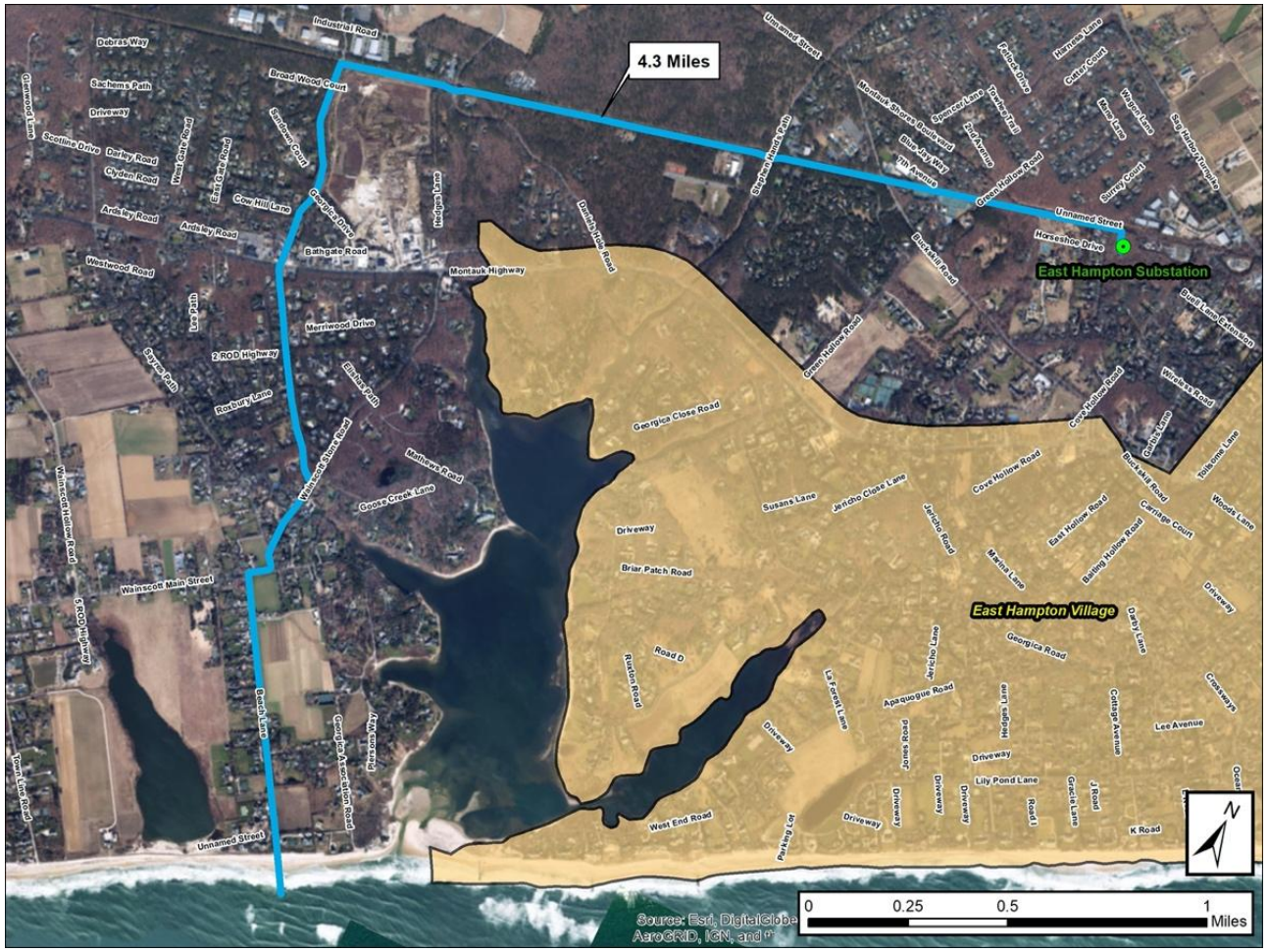
2. Underground Transmission Line

- Approximately 2 miles of underground cable in Town-owned roads
- Approximately 2 miles of underground cable in the Long Island Railroad (LIRR) Corridor

3. Interconnection Facilities (Substation)

- Infrastructure to step down power from 138kV to 69kV

Underground Onshore Cable Route



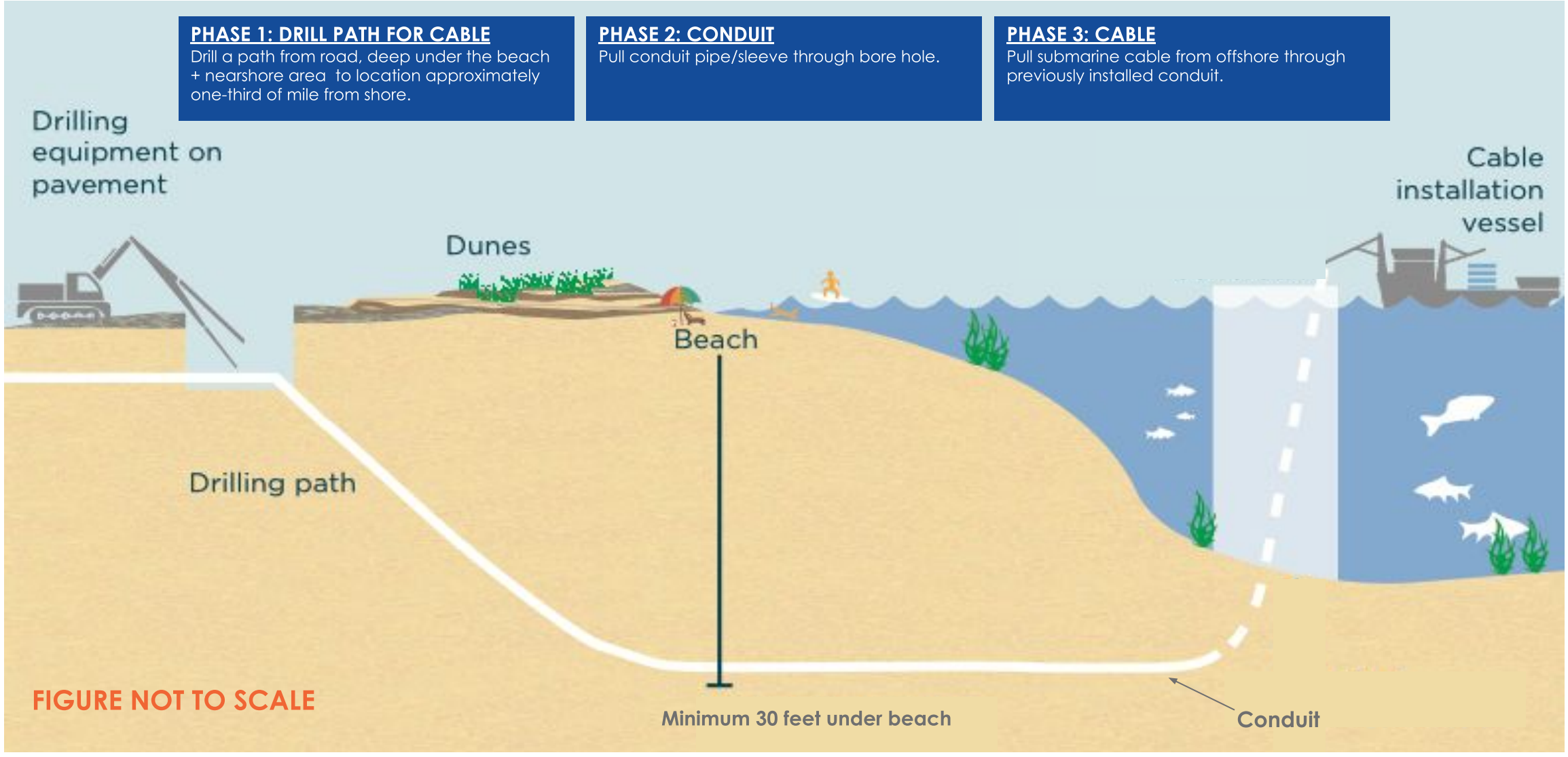
- **Sea-to-shore Transition: Under Wainscott Beach**
- **Town-Owned Roads (~2 miles):**
  - Beach Lane
  - Wainscott Main Street
  - Sayres's Path
  - Wainscott Stone Rd
  - Wainscott Northwest Rd
- **LIRR Corridor (~2 Miles)**

Question & Answer Portion

Moderator: Joe Martens

Sea-To-Shore Transition

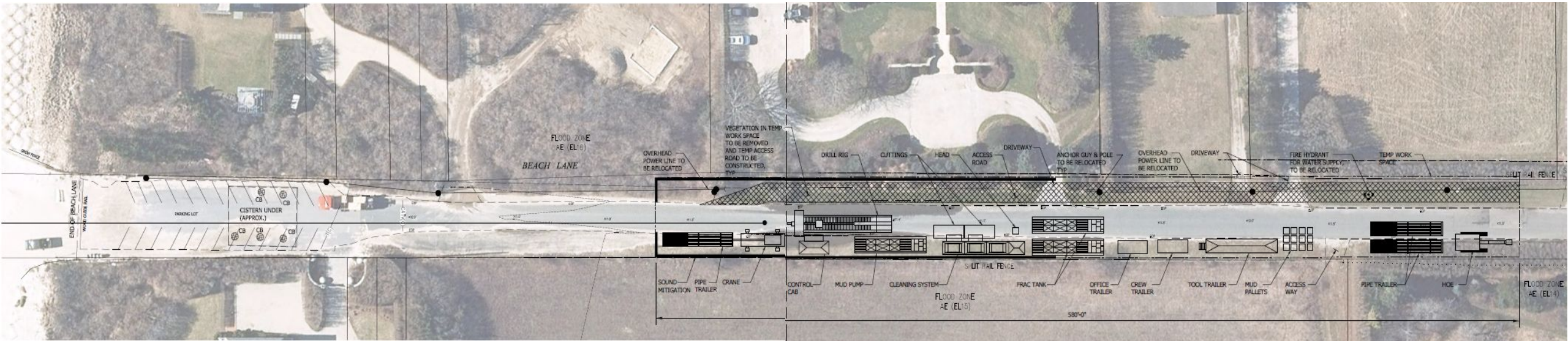
Overview of Process Using Horizontal Directional Drill



HDD Draft Layout

(graphic from Article VII Application Filing)

Layout will be updated to reflect agreed-upon conditions from settlement.



Sea-To-Shore Transition

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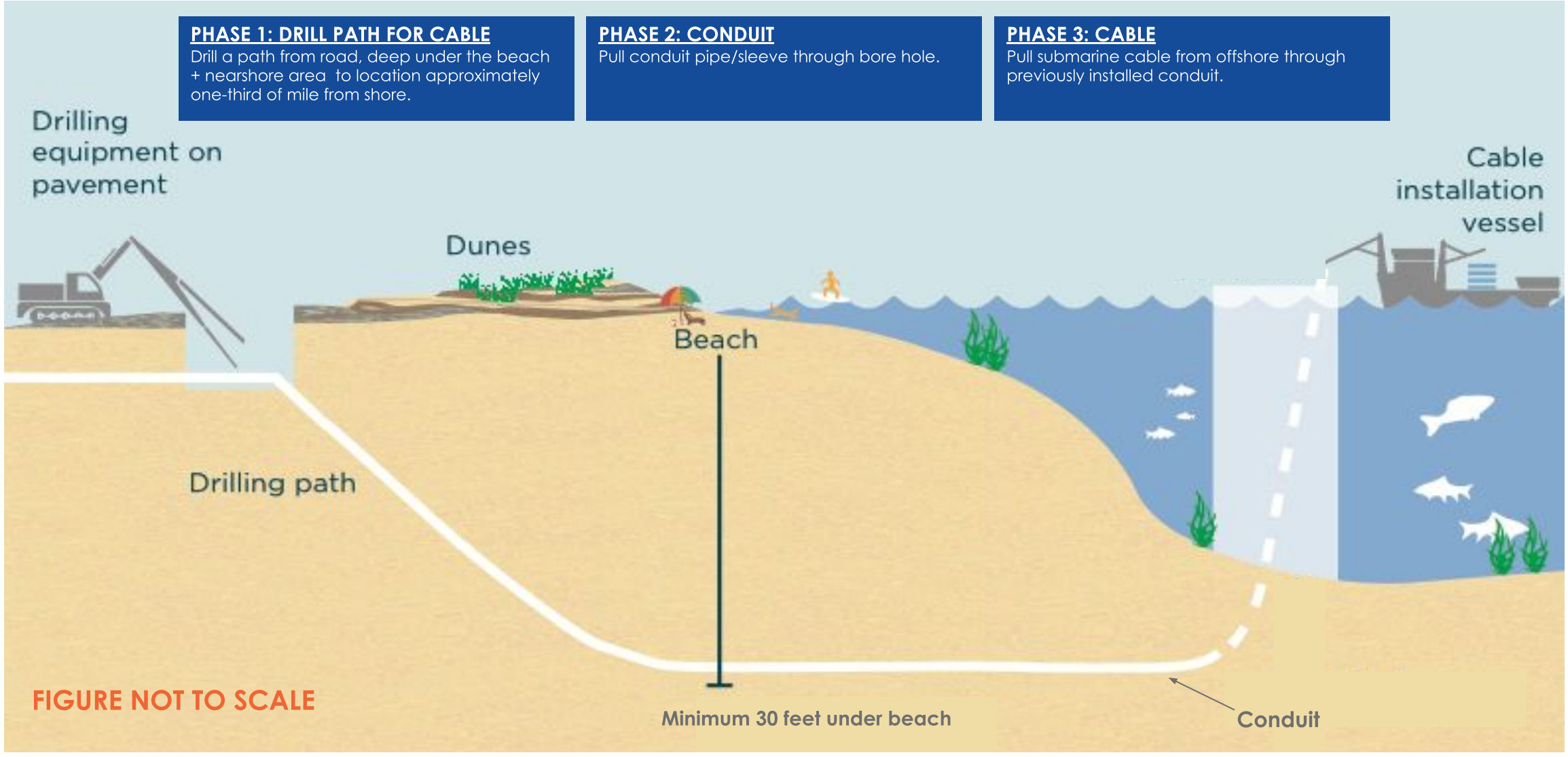


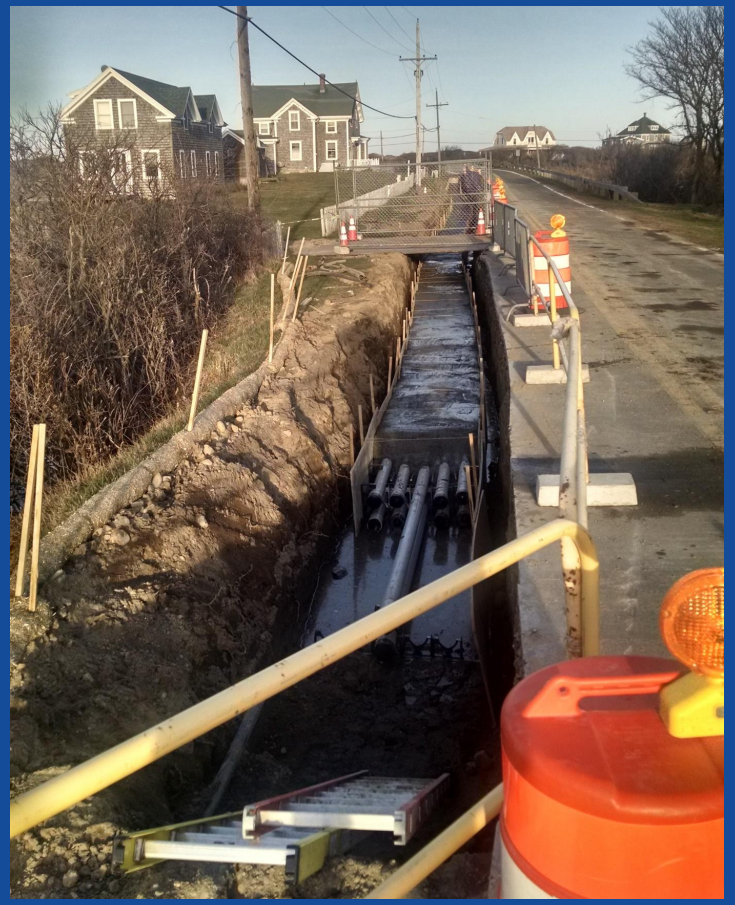
Onshore Cable Installation

Example: Underground vaults

Vaults in a beach parking lot where two submarine cables come ashore. Post installation, only manhole covers are visible. (Note: parking lot was unpaved prior to installation)

Onshore Cable Installation

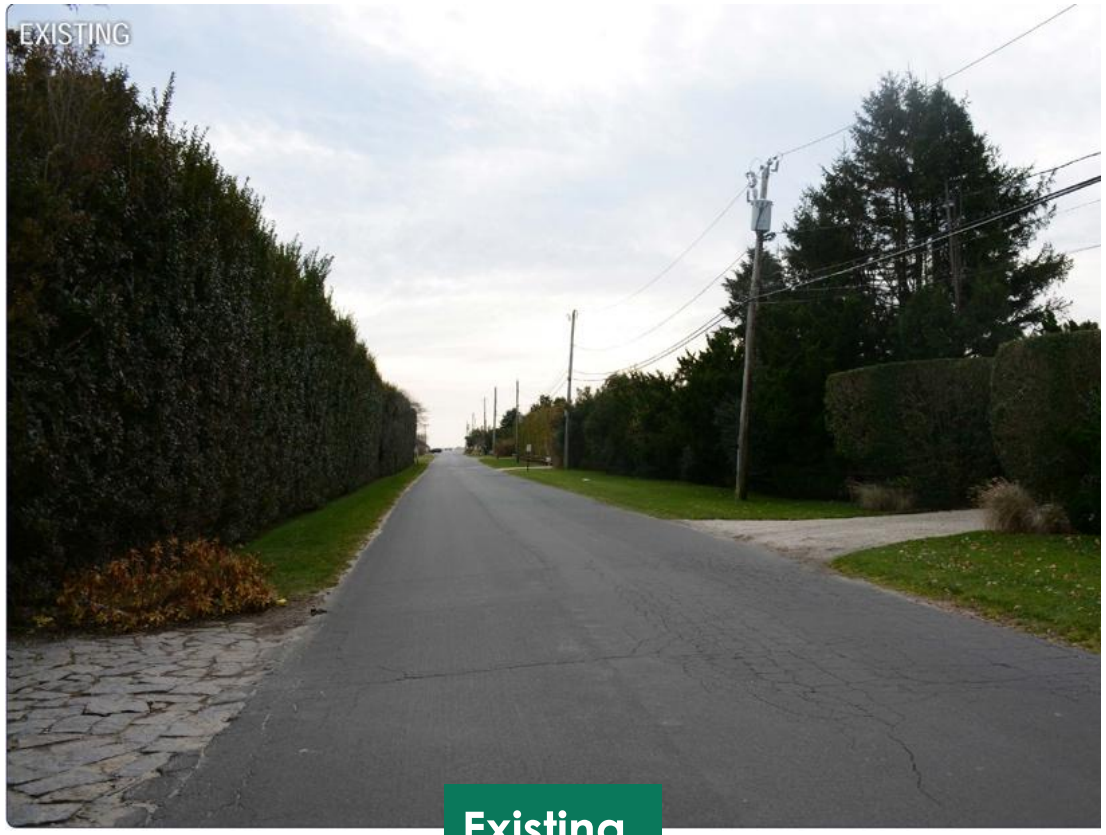
Example: Concrete encased underground duct bank



- Underground duct bank installed via trenching
- Typical buried utility work
- Trenching process similar for the 10 miles of water mains recently installed throughout Wainscott (2018)

Duct bank installation with temporary patch

Visual Simulation of Beach Lane: Before and After Project



Existing

Simulation: Post Project

Question & Answer Portion

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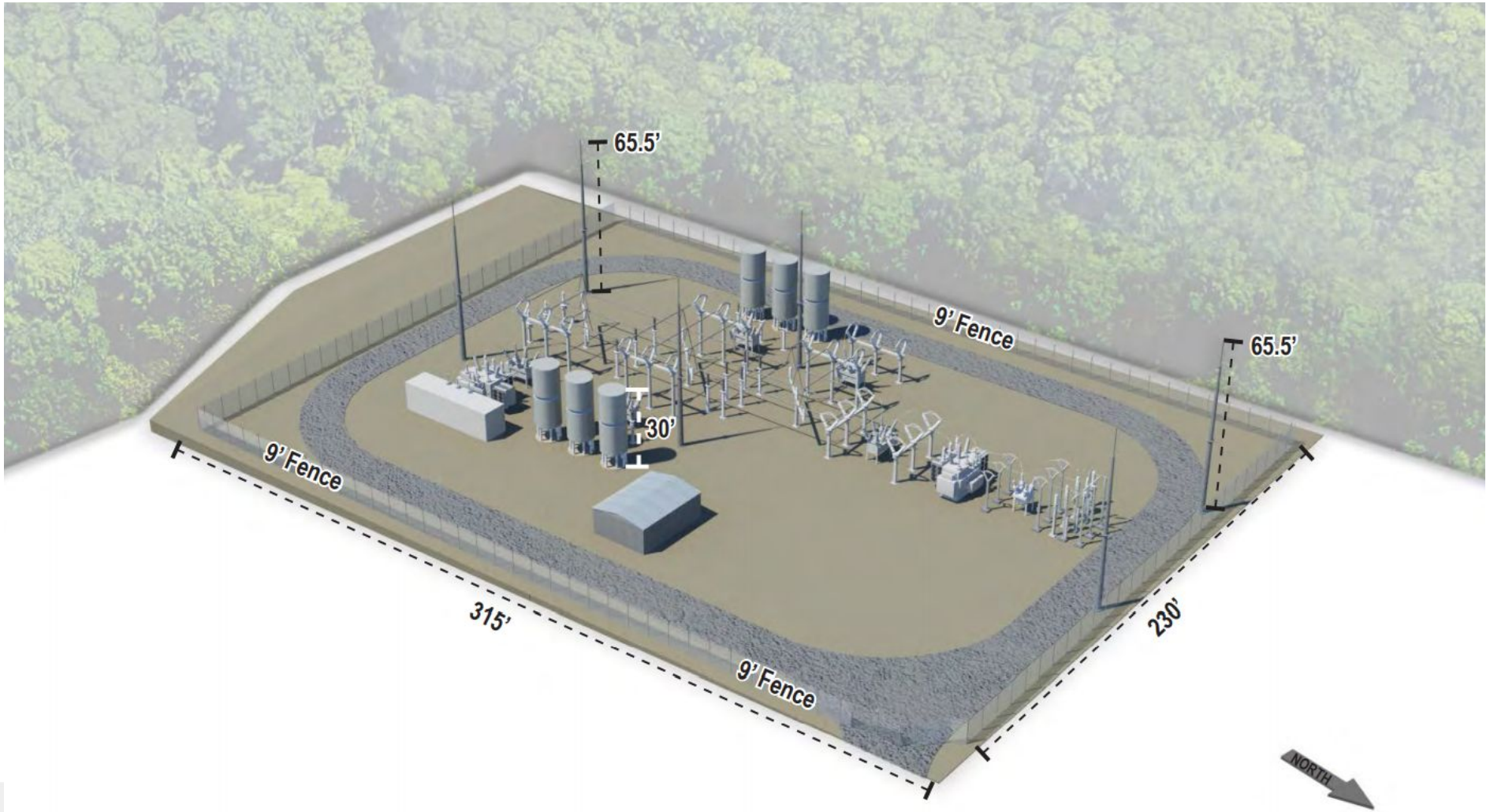
Visual Simulation of Interconnection Facilities

(Graphic from Article VII filing.
Substation subject to final design)



Visual Simulation of Interconnection Facilities

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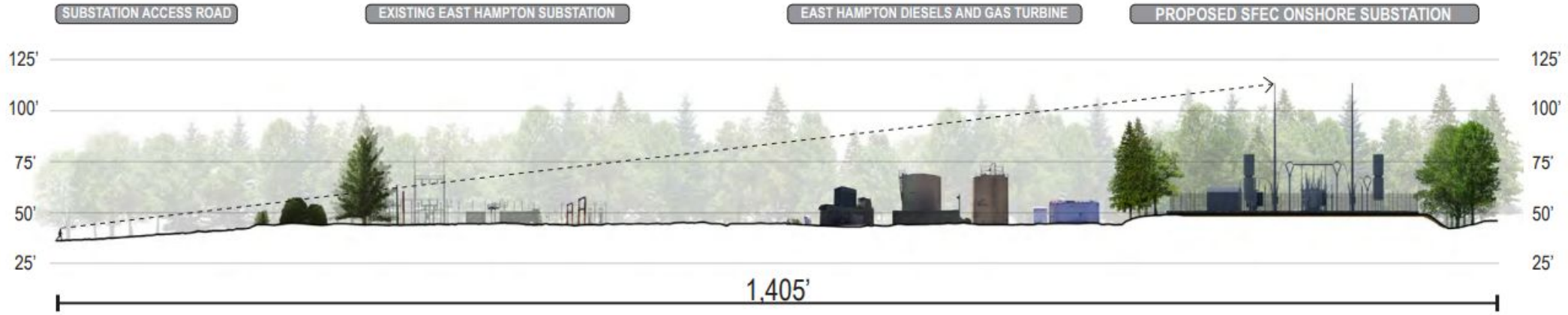
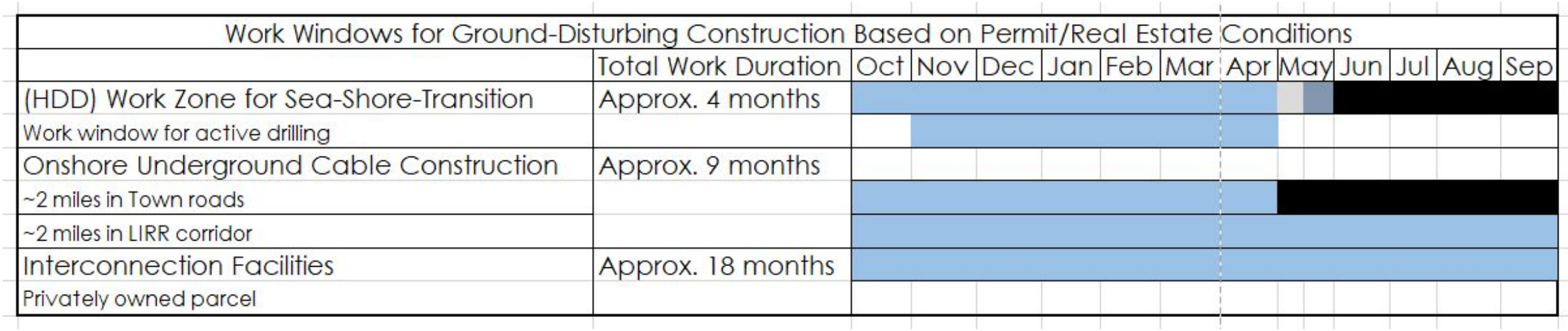


Construction Windows

(defined in Town easements and proposed permit conditions)



Work Windows for Ground-Disturbing Construction Based on Permit/Real Estate Conditions													
	Total Work Duration	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
(HDD) Work Zone for Sea-Shore-Transition	Approx. 4 months												
Work window for active drilling													
Onshore Underground Cable Construction	Approx. 9 months												
~2 miles in Town roads													
~2 miles in LIRR corridor													
Interconnection Facilities	Approx. 18 months												
Privately owned parcel													

Legend:

- nstruction allowed
- ited/specific construction allowed
- 0,000 fine if area is not cleared
- construction allowed

**Construction may span two work seasons to accommodate construction restrictions and timing of permit issuance.

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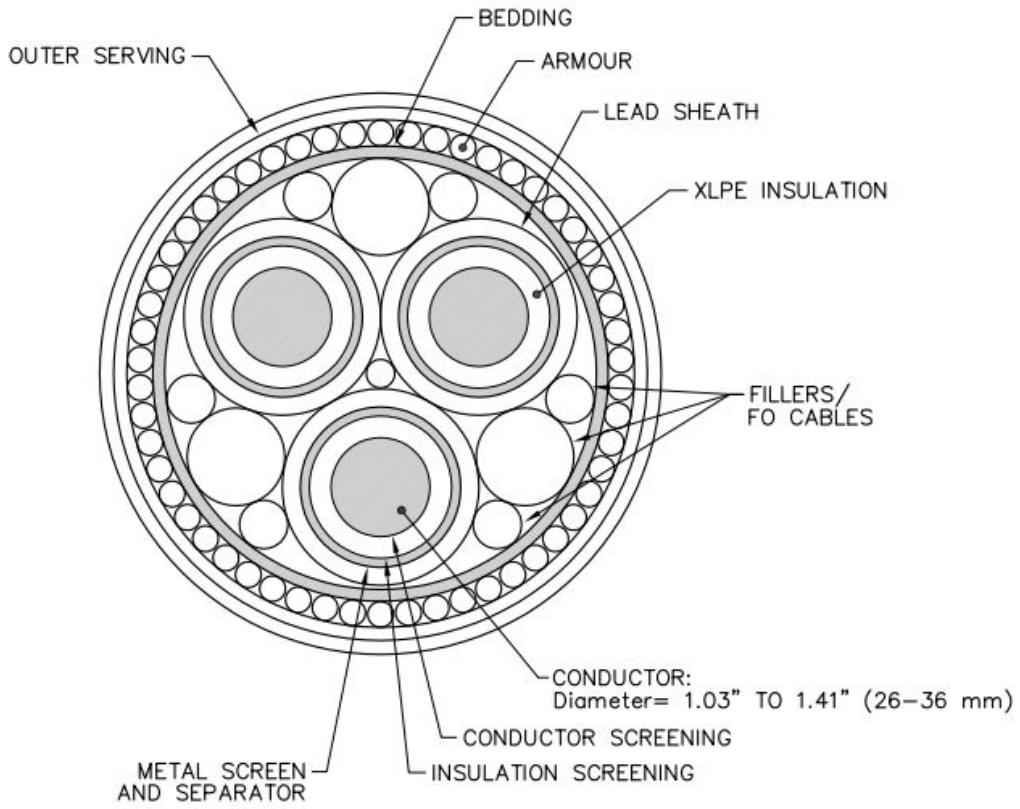
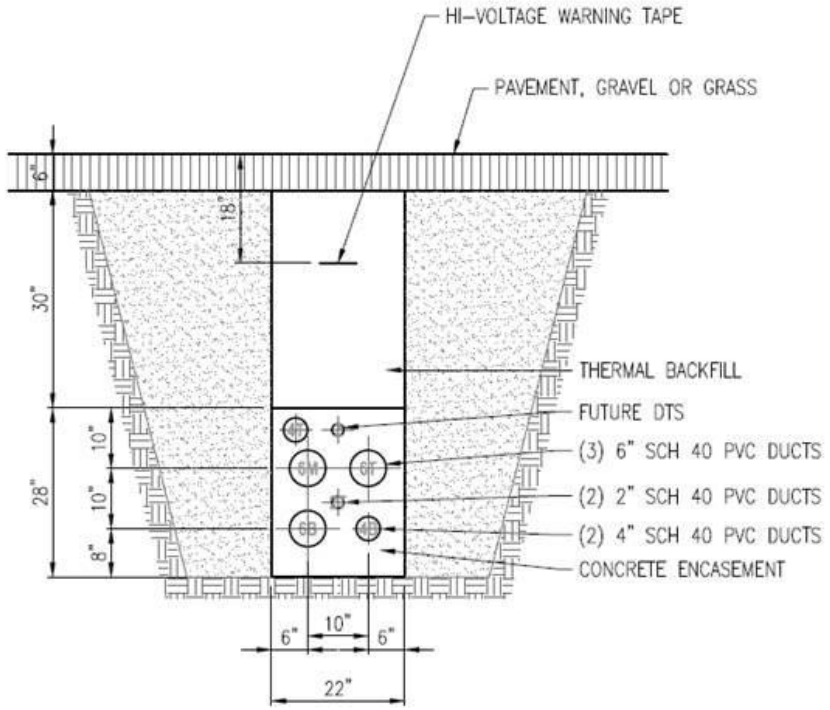
Cable Infrastructure Profiles

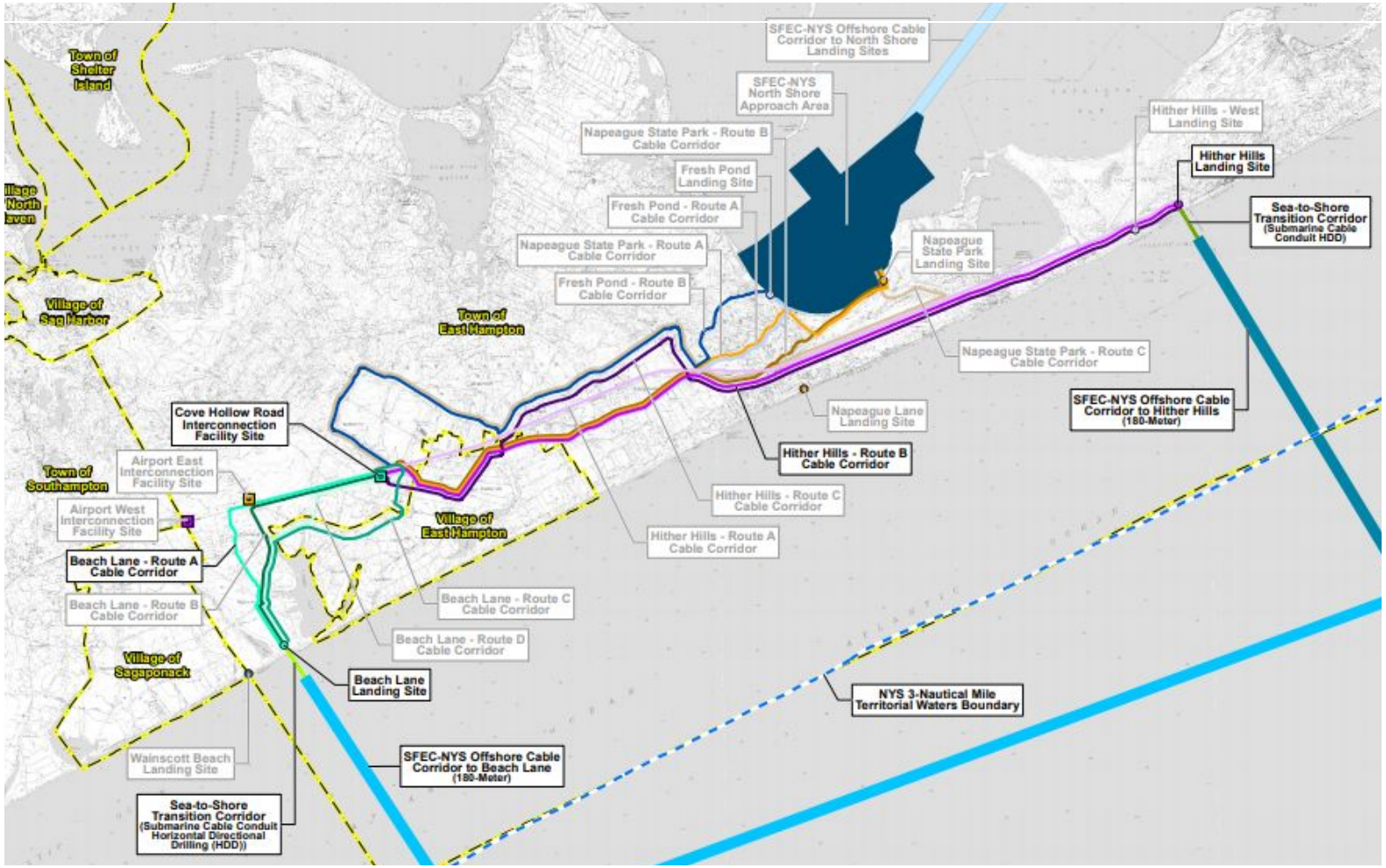


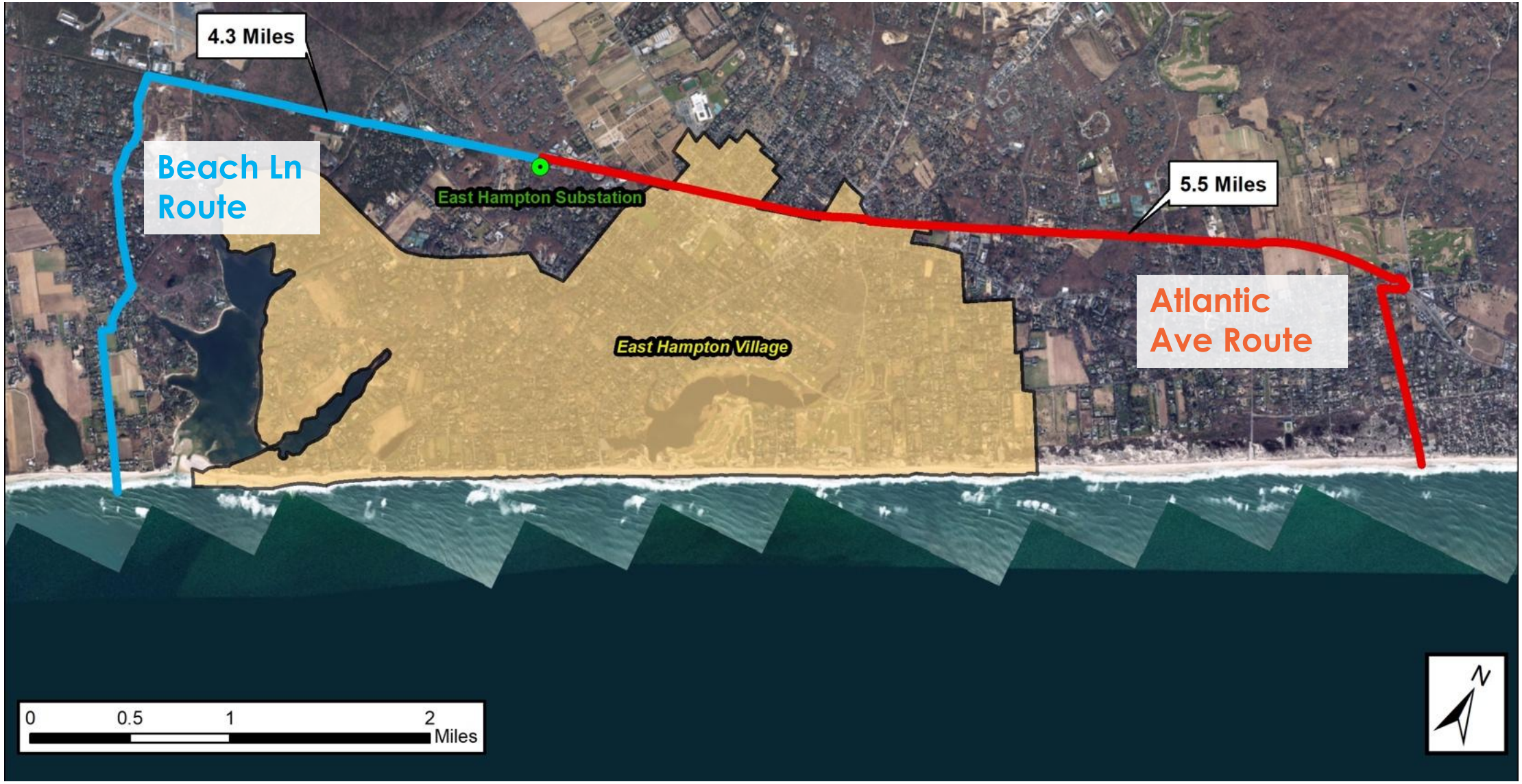
Bundled Submarine Cable Profile
(Cable is 12 inches maximum in diameter)



Onshore/Underground Cable Duct Bank Profile

Alternatives Analysis (from Article VII application)




4.3 Miles
Beach Ln Route
East Hampton Substation
5.5 Miles
Atlantic Ave Route
East Hampton Village
0
0.5
1
2
Miles

Beach Lane Vs. Atlantic Ave

Beach Ln Route:

- **4.3 miles onshore.**
- **78 homes within 200 feet.**
- **Less Construction Impact**
  - ~9 months construction for underground line
  - Entirely within public rights of way including lightly traveled town roads
  - Underground construction along mostly flat LIRR right-of-way; no existing overhead transmission.
- **Unprecedent environmental and community protections contained within Joint Proposal (permitting document)**

Atlantic Ave Route:

- **5.5 miles onshore. 20% longer than Beach Ln route.**
- **139 homes within 200 feet. 40% more homes affected.**
- **Infeasible underground construction along LIRR rights of way due existing infrastructure congestion. Additionally, presence of existing overhead transmission significantly increases complexity of construction.**
  - ~18+ months construction for underground line
  - High risk of electrical outages during construction
- **Trustees have stated they will not grant real estate rights for Atlantic Beach Route**

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Thank you for joining us!

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