MAYFLOWER WIND

Falmouth Alternate Landfall Analysis
Town of Falmouth

October 17, 2022

Mayflower Wind Falmouth Timeline

2021

November
- Submitted initial Falmouth EFSB Petition

2022

March
- Meeting with Town on Alternate Landfalls
- Postponed initial EFSB Public Comment Hearing (scheduled for March 24)

May
- Kicked off Alternate Landfall Engineering
- Project Change to HVDC

June
- Presentation at Falmouth Public Forum

July
- Filed a Motion to Suspend with the EFSB on to officially suspend the Falmouth EFSB proceeding

August
- EFSB granted the Motion to Suspend

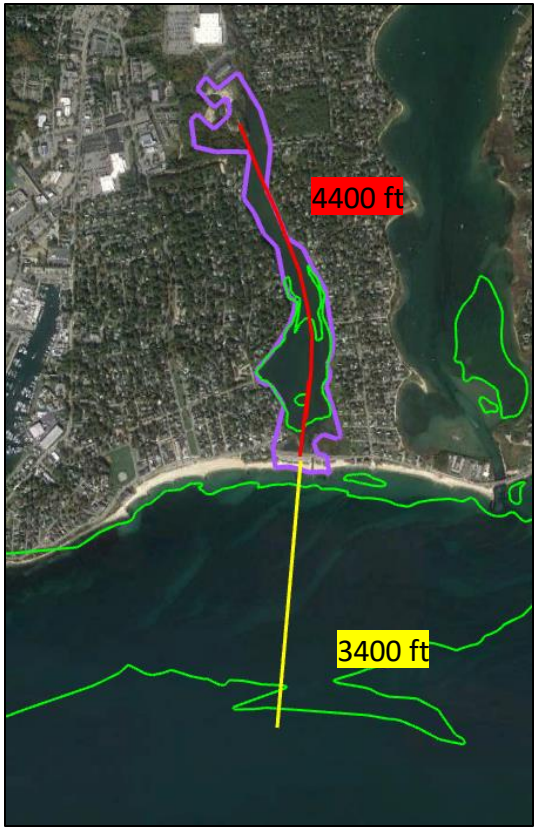
September
- Concluded Alternate Landfall and HVDC Engineering
- Meetings with Property Owners/Stakeholders

Alternate Landfalls

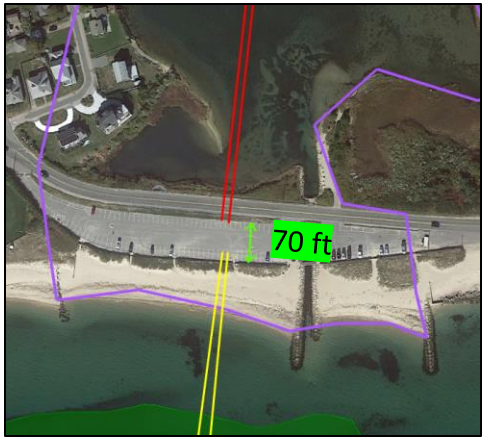
Little Pond Landfall

- Scenario 1 – Continuous HDD from offshore export cable corridor to Town property north of Little Pond on Spring Bars Road
  - 7500 feet exceeds the range of HDD feasibility
  - HDD curvature increases technical difficulty

Little Pond Landfall



- Scenario 2 - HDD from offshore to Bristol Beach Parking Lot, HDD from Parking Lot to Town property north of Little Pond on Spring Bars Road
  - Bristol Beach Parking Lot is too narrow - approximately 100 ft from the HDD entry to the back of the drill rig is needed for workspace.
  - HDD operations would require the complete closure of Menauhant Rd. for 3-5 months in order to avoid the existing sensitive dunes.



Little Pond Landfall

- Scenario 3 - Separate the HDDs into two, meeting in Little Pond in a cofferdam
  - Cofferdam construction requires direct burial and will create a large sediment plume around the burial operation.
  - Little Pond is a constricted waterway without natural tidal flushing.
  - Disruption of shellfish habitats due to sediment dispersal generated during installation.

Scranton Avenue Parking Lot

- Small HDD area (0.37 acres) does not provide adequate area for installation vehicles and equipment
- HDD and transition vault construction on privately-owned land
  - No response from property owner
- HDD construction would hinder access to commercial properties to the south and access to the Harbor

Clinton Avenue Parking Lot

- Abutters to the east are in close proximity to the work zone
  - Falmouth Tides Motel and Falmouth Yacht Club operations would be hindered during HDD operations.
- Very shallow cover under the beach due to the required location of the entry pit
  - TJBs may be exposed to sea level
  - Dewatering difficult to accomplish
- Narrow parking lot
  - Traffic Impacts

Surf Drive Parking Lot

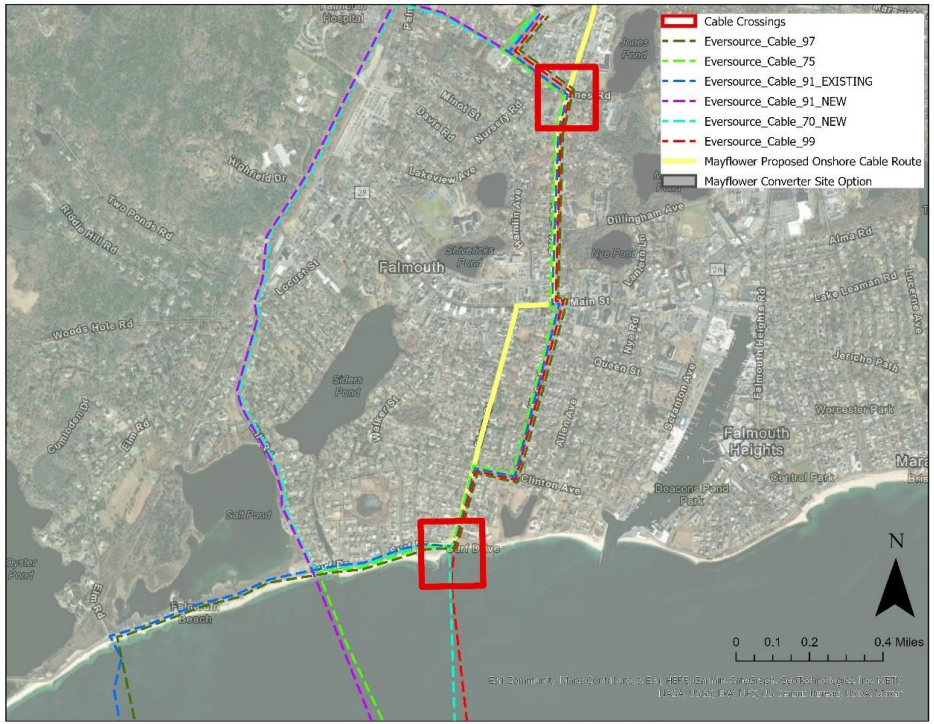


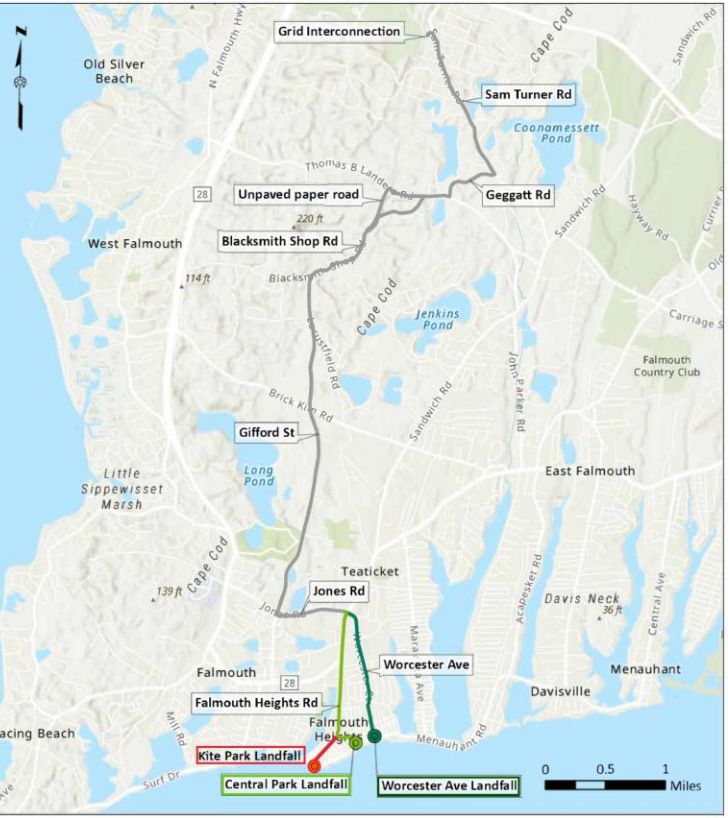
Figure taken from Burns & McDonnell's Surf Drive Ampacity Report. Mutual heating at cable crossings produce adverse de-rating.

- Mutual heating modeling conducted to assess risks and impact of siting near Eversource's electrical cables serving Martha's Vineyard.
- Modeling results show that mutual heating between Mayflower and Eversource cables exceeds maximum cable operating temperatures.
- Mayflower shared modeling report on 10/21
  - Eversource, Mayflower and the Town of Falmouth met on 10/21 to discuss modeling report.

Kite Park Landfall

- Two (2) HVDC HDDs are technically feasible through Town-owned beach parcel
  - HDD trajectory discussed with multiple consultants/vendors and determined to be technically challenging but feasible.
- Mayflower plans to include HDD trajectory through Town beach parcel as a variant to our Preferred and Noticed Alternative Route.

Mayflower Onshore Route Scoring



- Standard industry scoring criteria, including but not limited to:
  - Direct residential abutters
  - Traffic congestion
  - Sensitive receptors (hospitals, schools, elder care facilities, police/fire, etc.)
  - Wetland areas
  - Flood risk
  - Historic properties
  - Archaeological resources
  - Listed rare species habitat
  - Public water supplies
  - Article 97 land
  - Tree removal

Onshore Construction Impacts

- Onshore cable installation will occur **outside of the busy summer season** to the maximum extent possible. Any high season or night-time construction would be done in coordination with and with the approval of the Town.
  - Onshore HDD construction in Falmouth is expected to last 2 – 3 years (offseason work only)
  - Horizontal Directional Drilling is expected to take 3 – 5 months (offseason work only)
- **Lane or road closures will use a rolling setup**, so only a section of the roadway is worked on at a given time.
- Mayflower will **comply with all applicable construction noise requirements** and implement mitigations:
  - Temporary noise barriers at HDD locations
  - Maintaining equipment with functioning mufflers
  - Low-noise generators
- Mayflower will create a **construction schedule webpage** to alert residents of construction locations, dates, activities and traffic control measures.

Mayflower Next Steps

- Mayflower is planning to re-file MA EFSB petition before the end of 2022
- Petition will include alternate landfall engineering and HVDC engineering
  - Kite Park to be included as a landfall option
  - Smaller HVDC converter station footprint, smaller underground duct bank, fewer cables, etc.
- Abutter notifications would be resent to the Falmouth community in early 2023

Thank You

Questions and Comments?