



CONNECTICUT DEPARTMENT OF HOUSING

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Second Tranche
Infrastructure Application
Calf Pen Meadow Marsh

Welcome to Connecticut Department of Ho

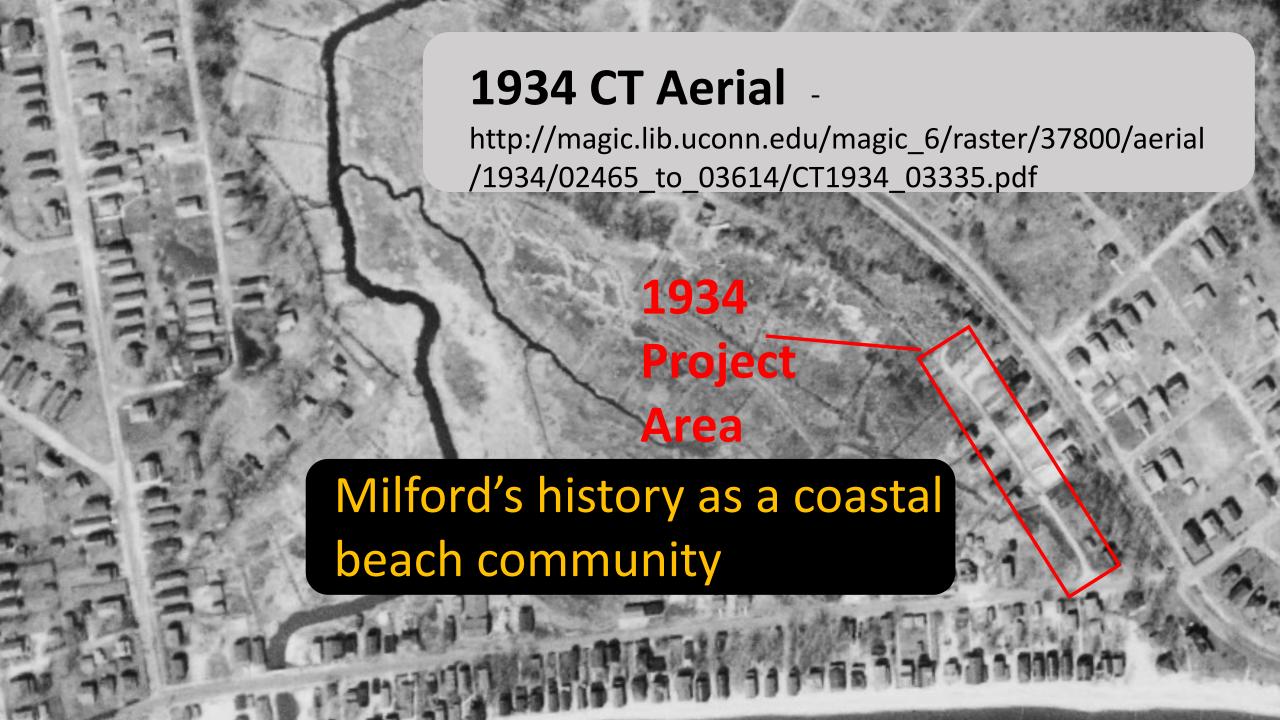


2014 Calf Pen Meadow Marsh Goals

Flood Mitigation

Marsh Water Level Control

Road Elevation & Drainage





0 145

290

580 Feet This Map was made from the City of Milford Geographic Information System. The City expressly disclaims any liability that may result from the use of the map.



1 inch = 170 feet

Milford has an estimated eighty five coastal access locations identified leading to Long Island Sound and the Housatonic River coastal resources. The access points are noted as a red triangle. These coastal access locations are undergoing a review process to determine if these locations are publically available to be used by the general public.

Milford's extensive 17.5 miles of shoreline includes many private beaches. Please respect these private areas by remaining below the high tide area.



ABOUT



Phil Forzley, PE, Vice President & Department Manager of the Water and Natural Resources Department.

City's Flood Erosion **Control Board &** Public Works selected Fuss & O'Neill for the design and permitting of the Calf Pen Meadow Marsh Flood Mitigation Project







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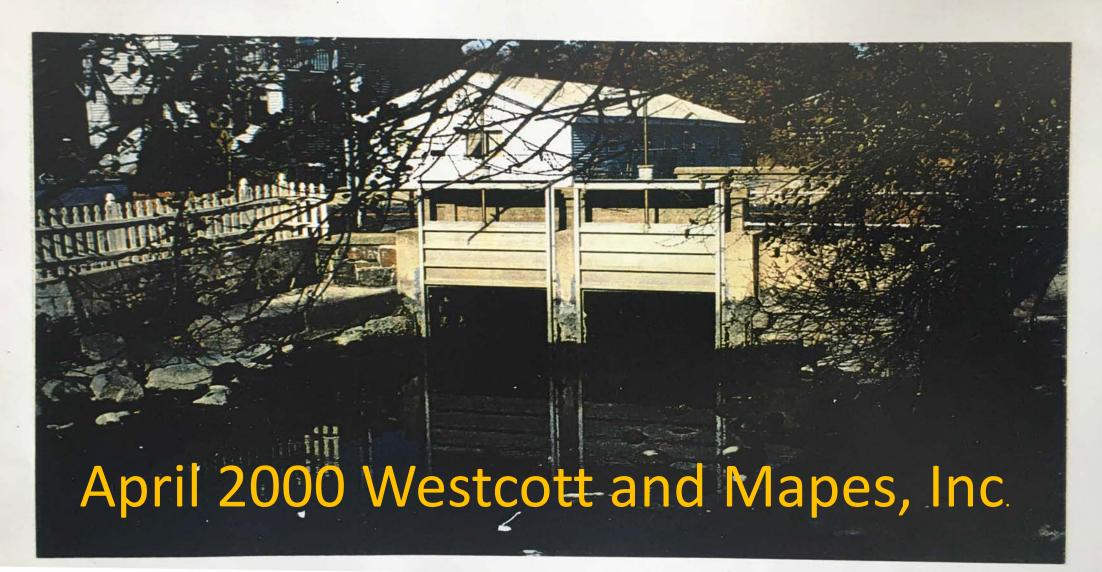


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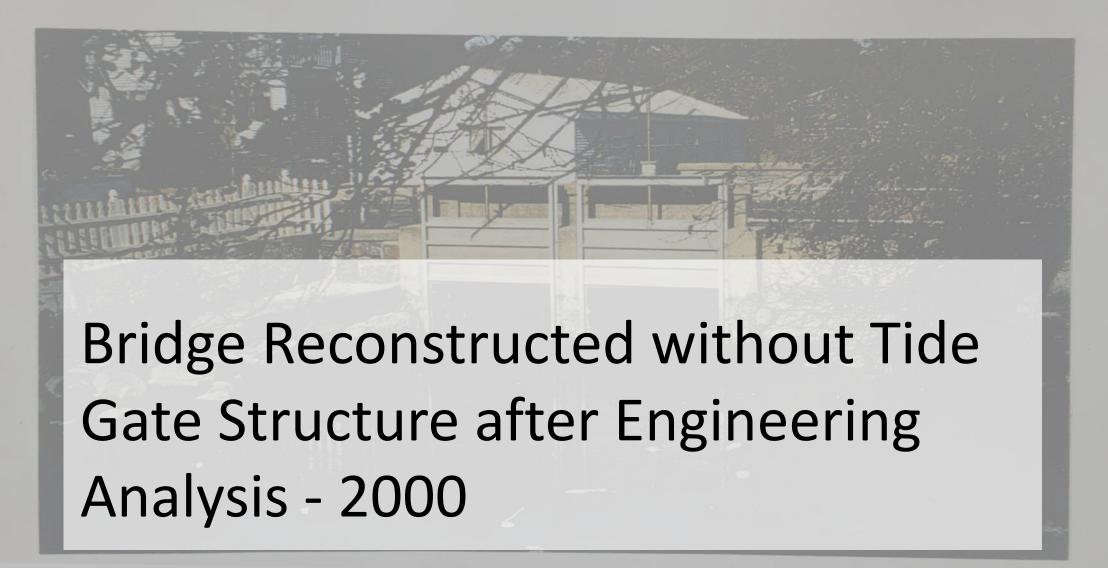
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MELBA STREET BRIDGE CALF PEN MEADOW CREEK DRAINAGE STUDY



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Upland Flooding Potential Alternatives

Fuss & O'Neill

CT DEEP Office of Long Island Sound Program

Fuss & O'Neill

Woods Hole Group

Hydrodynamic Study

First Order Assessment Conclusions

Tide Gate Not Recommended

Tide Gate Assessment by Woods Hole Group

- ❖ Roadway elevations would be over topped limiting the effectiveness of the structure under 5-10 year storm events.
- Additional roadway, bridge, and coastline resiliency work would be required.

Calf Pen Meadow Marsh Goal

Beachland Ave. Road Design & Adaption



Connecticut Department of Energy and Environmental Protection







OME > MISSIONS > REGULATORY > STATE GENERAL PERMITS > CONNECTICUT GENERAL PERMIT

Nationwide Permits

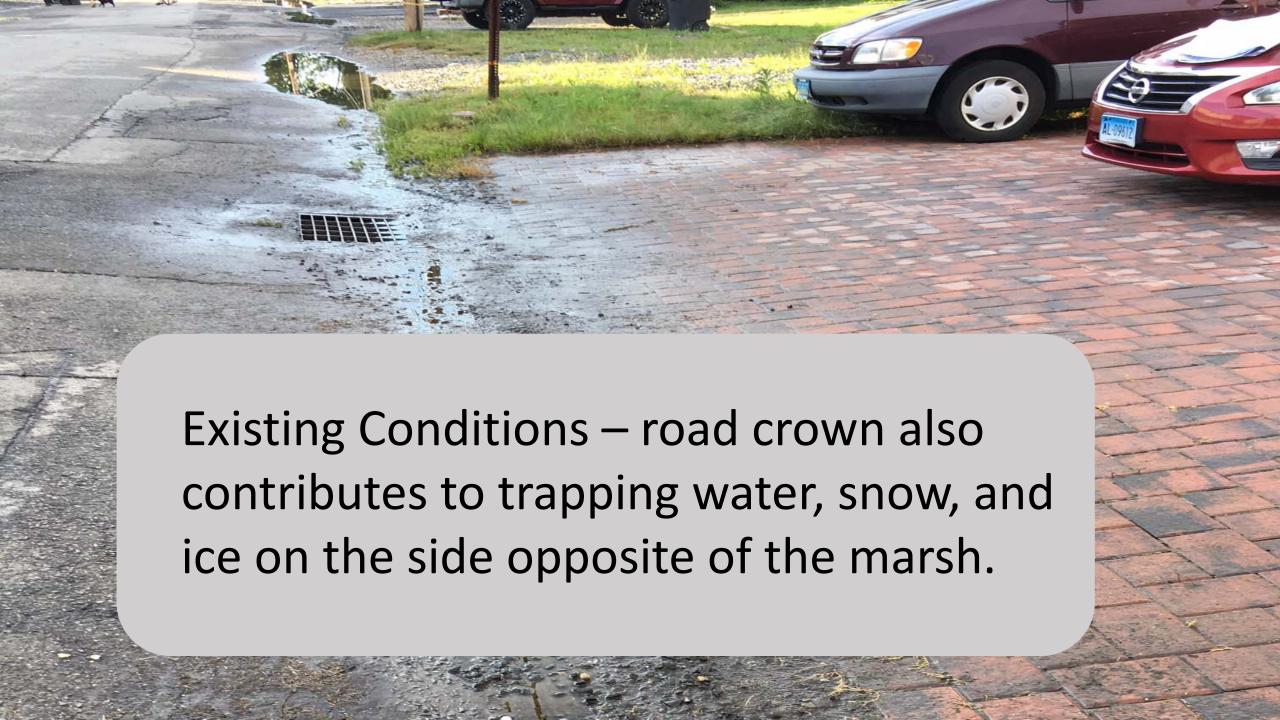
Connecticut General Permit Docum

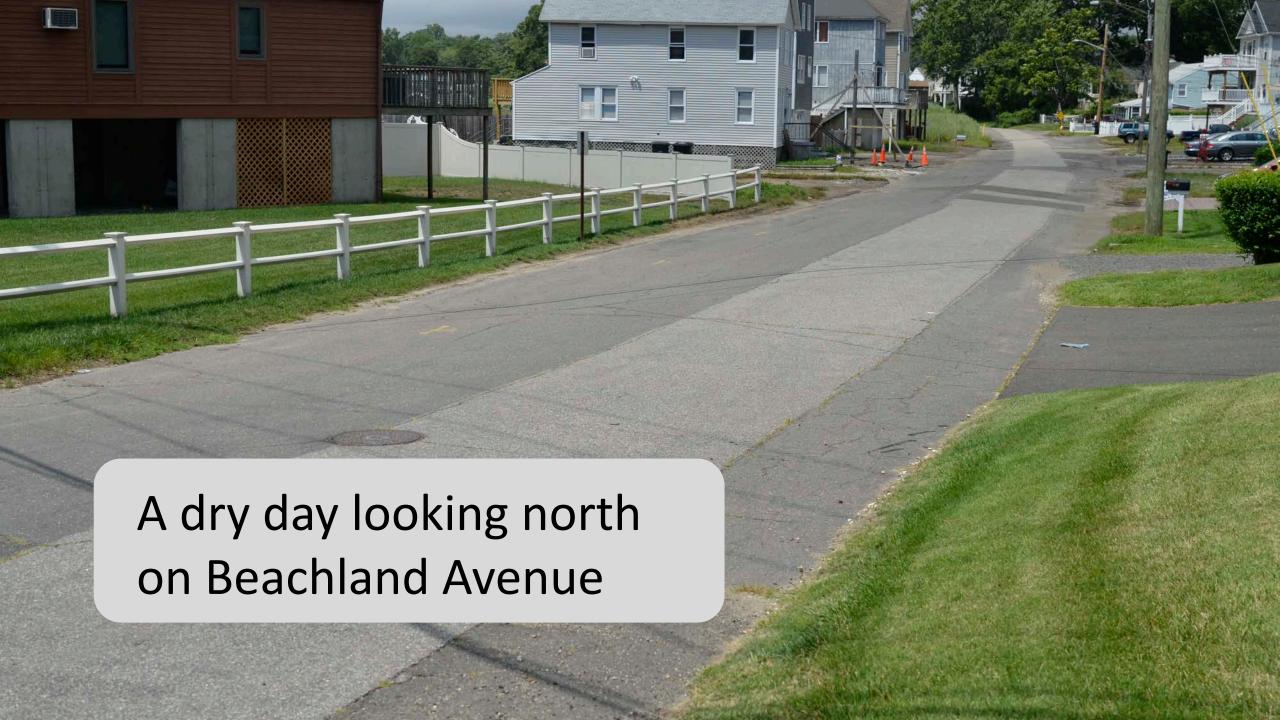
















BEACHLAND AVENUE FLOOD MITIGATION PROJECT

BEACHLAND AVENUE · MILFORD · CONNECTICUT REVISED JUNE 22, 2018

PREPARED FOR

CITY OF MILFORD

70 WEST RIVER STREET MILFORD, CT. 06460



- ✓ Project Specifications
- ✓ Existing Conditions, CS-101
- ✓ Demolition, Erosion & Sedimentation Control, CS-102
- ✓ Proposed Conditions, CS-103
- ✓ Construction Administration



LOCATION MAP

GI-001



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PAVING

Driveways, Parking lots, Roads, Curbs, Hauling, Repairs Patch, Gravel and Stone, Resurfacing, Extensions, Sports Courts

EXCAVATING

Site work, Sewer, Water line, Septic Tanks, Drainage work, foundation & footing, Concrete slabs, site clearing

DEMOLITION

Interior & Exterior, Residential, Commercial, Masonry walls, slabs

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Two High Tides predicted 7.13 ft. (Milford Harbor)



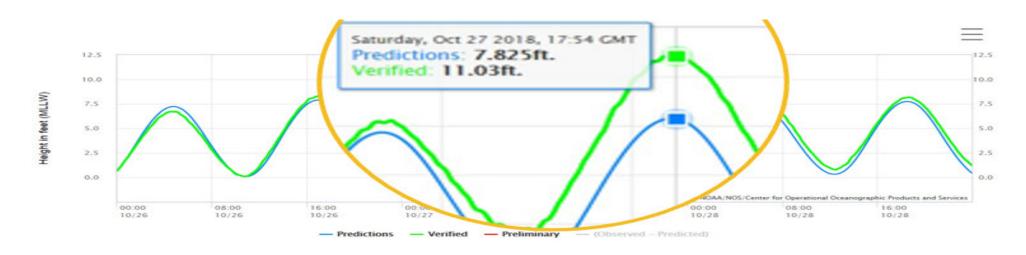
Saturday, October 27, 2018 Nor'easter

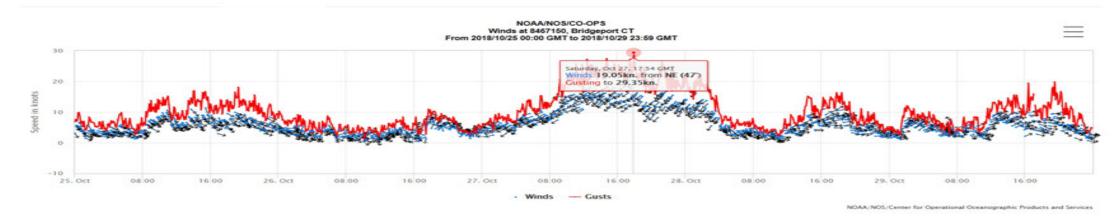


Day 3 High Tided predicted 7.13 ft. (Milford Harbor)



October 27, 2018 Nor'easter

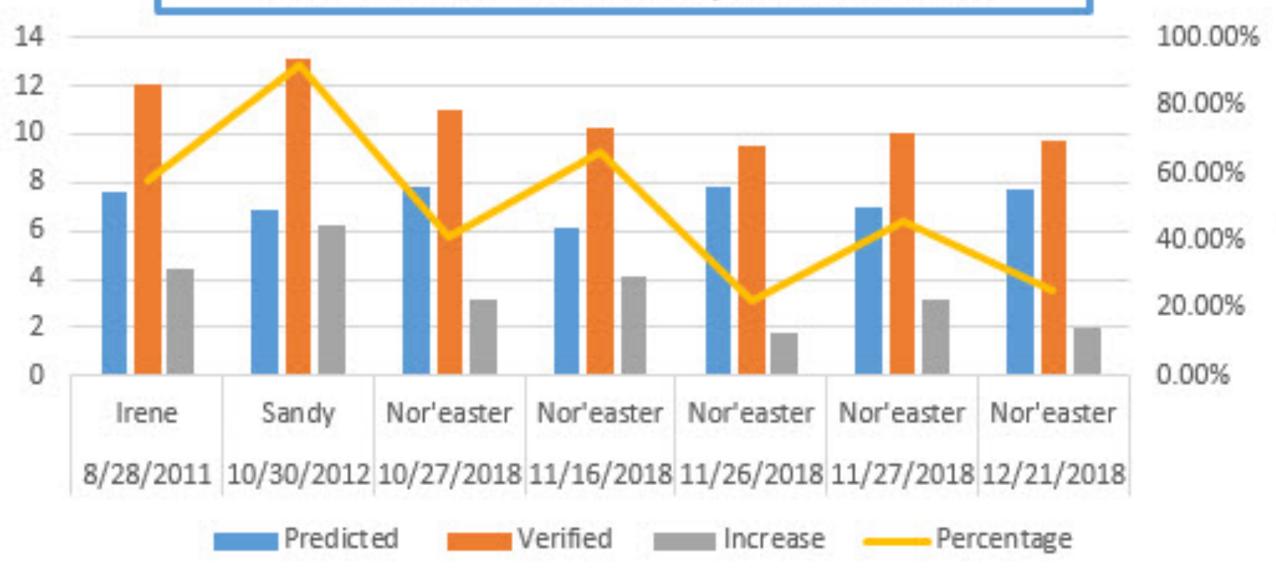




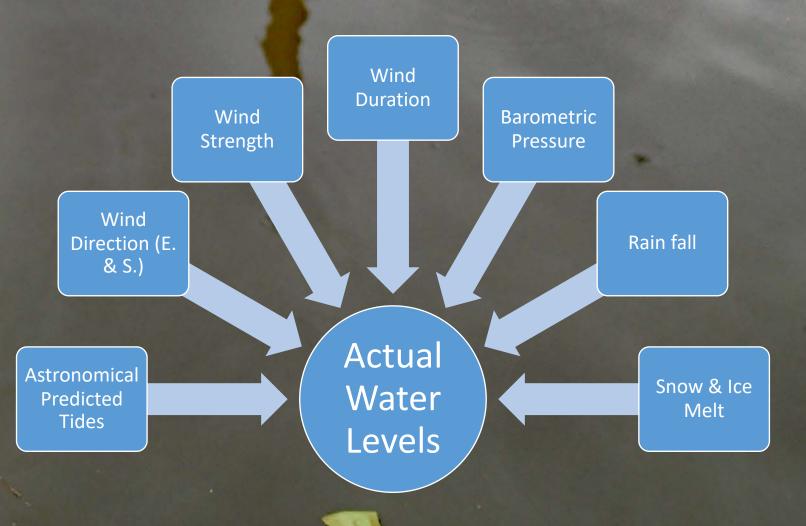
Saturday, October 27, 2018 Nor'easter



NOAA/NOS/CO-OPS - OBSERVED WATER LEVELS, BRIDGEPORT # 8467150, Datum MLLW



Coastal Flooding - today







Beachland Avenue Design

Adaptation:

- ✓ Remove center road crown.
- ✓ Eliminate ineffective catch basins.
- ✓ Grade properties shedding water to the road.
- ✓ Grade road improving drainage back to the marsh channel infiltrating at a high performance turf reinforced mat and vegetated swale.

2014 Calf Pen Meadow Marsh Goals

Flood Mitigation

Adaptation

Marsh Water Level Control

Road grade Elevation & Drainage

Lessons Learned

- ✓ Communication with interested people is vital.
- ✓ People love their home, listen to their concerns.
- ✓ Set realistic expectations how the project is designed to perform.
- ✓ Encourage people to elevate driveways & garages, not just their living space.
- ✓ 20" Sea Level Rise by 2050 is a harsh challenge



Calf Pen Meadow Marsh Flood Mitigation & Adaptation

Steve Johnson

City of Milford

Open Space & Natural Resource Agent and Acting Assistant Public Works Director

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