

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 12975
MEPA Analyst: Bill GAGE
Phone: 617-626-1025

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Charles M. & Colleen E. Forti		
Street: 227 Bay Avenue		
Municipality: <u>Marshfield</u>	Watershed: South <u>Coastal</u>	
Universal Tranverse Mercator Coordinates: N/A	Latitude: 42° - 04' -45" Longitude: 70° - 38' - 30"	
Estimated commencement date: Fall, 2003	Estimated completion date: Spring, 2003	
Approximate cost: \$200,000	Status of project design: 100 %complete	
Proponent: Charles M. & Colleen E. Forti		
Street: 227 Bay Avenue		
Municipality: Green Harbor	State: MA	Zip Code: 02041
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Paul A. Fellini		
Firm/Agency: Merrill Associates, Inc.	Street: 427 Columbia Road	
Municipality: Hanover	State: MA	Zip Code: 02339
Phone: 781.826.9200	Fax: 781.826.6665	E-mail: pfellini@merrillinc.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No
- Has any project on this site been filed with MEPA before?
 Yes (EOEA No. _____) No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres):

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify DEP & ACOE) No

List Local or Federal Permits and Approvals: Marshfield: Conservation Commission and Zoning Board of Appeals

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input checked="" type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:
Total site acreage	0.07 ±			
New acres of land altered		0		
Acres of impervious area	400 ±	0	400 ±	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	652 ±	179 ±	831 ±	
Number of housing units	1	0	1	
Maximum height (in feet)	<20 ±	12' – 6"	32' – 6"	
TRANSPORTATION				
Vehicle trips per day	9	0	9	
Parking spaces	2	0	2	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	220	110	330	
GPD water withdrawal	220	110	330	
GPD wastewater generation/ treatment	220	110	330	
Length of water/sewer mains (in miles)	0	0	0	

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

- Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify _____) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*)

The proposed project consists of the complete reconstruct of the existing dwelling with a new single-family structure by razing the existing dwelling and replacing it with a dwelling that is raised, expanded and relocated from its original location.

Currently the site consists of an occupied single-family dwelling situated on a lot located within the R-3 (Residential – Waterfront District). The site is comprised of 3200+ SF of which only 432+ SF is buildable upland as defined by the Marshfield Conservation Commission. The rear of the site is located within the “Coastal Wetlands District”. The entire site is within the “Special Flood Hazard District” as defined by the Marshfield Flood Insurance Data Map (FIRM) and the Flood Bounding and Floodway Map (FBFM) issued by the Federal Emergency Management Agency. More specifically the front of the lot lies within the Zone “AO” and the rear including the entire dwelling is situated within the Zone “A2” and the Coastal Wetland District. The dwelling’s front wall runs along the demarcation line between the Flood Plain Zones, the Coastal Wetland Districts and the bank of Canal Creek.

The existing soil conditions encountered on site varies considerably. The front of the site between the layout of Bay Avenue and the dwelling consists of beach and dune deposits (Qbd) as defined by the Duxbury Quadrangle Surficial Survey Map. The soil upgradient to the Coastal Wetland District defined on site by a retaining wall and the dwelling appears to be gravelly fill material. The soil at the bottom of the retaining wall extending to Canal Creek itself consists of Tidal Marsh (Td) as defined by the soil survey of Plymouth County. This soil is regularly inundated with tidal waters and is more specifically described as a Tidal Flat. The surface soil consists of gravels underlain by very poorly drained organic and mineral deposits consisting of predominantly silt and herbaceous vegetation respectively. The soil encountered in the Tidal Flat are typically unstable and incapable of supporting foundations, footings and walls. The preferred method of foundation construction is pilings.

The existing structure consists of a two-story wooden frame on a concrete block foundation. The dwelling is approximately 100 years old and was moved to its current location prior to the promulgation of the Zoning bylaw. It is situated 0.6’ and 8.5’ from the left and right sidelines respectively and is 10.8’ from the layout line to Bay Avenue. No portion of the existing dwelling meets the front 15’ and the side 15’ setback requirements of the Marshfield Zoning Bylaw for a Zone R-3 (Residential-Waterfront District).

The existing foundation was not constructed in a workman-like fashion and was laid in place upon a Tidal Flat without a footing. The interior piers consist of cedar post damaged by dry rot and termites. The foundation is in failure and is in risk of a complete collapse during a tidal surge event. The wooden structure and living space is in similar condition and is inadequate in size to shelter two occupants, utilities and provide storage space. The air within the dwelling is damp and cold caused from the proximity to Canal Creek and the inadequate building insulation. This condition promotes the growth of mold and mildew within the dwelling and has been determined to cause respiratory ailments

(b) There are no other on-site or off-site alternatives available to the applicant. Due to the poor structural conditions of the dwelling and the lack of space available on site, the structure can not be moved beyond the 100 year flood plain nor is there available land adjacent to the subject site that can be acquired by the applicant to place the structure up on it. In any case, the dwelling is not structurally sound and would eventually need replacement due to either further degradation of the structure or a tidal surge event.

(c) The proposed project will provide the following:

- A. Protection to private and public health by providing:
 - a. a structure that meets the State Building and Fire Codes
 - b. a second means of egress and better access around the entire dwelling during emergency situations
 - c. a safe and structurally sound dwelling that would provide a safe haven during tidal storms
 - d. better fire protection by providing a greater setback distance between parked vehicles and the dwelling
 - e. a healthy environment and additional living space within the dwelling for the inhabitants
- B. Protection to private and public property by:
 - a. removing a public eyesore
 - b. removing a potential environmental and navigational hazard
 - c. providing better storage of household refuse
 - d. increase in the value of the subject site and its surroundings.
- C. 504 ± SF of reclaimed coastal wetland resource area by removing the existing foundation and replacing it with wooden pilings. A contiguous row of staked haybales and silt fence will be placed along the base of the proposed retaining wall. Work will be performed at low tide and all debris will be picked up immediately within the resource area.