



US Army Corps
of Engineers®
New England District

Project Information Sheet

Newburyport Harbor, Massachusetts

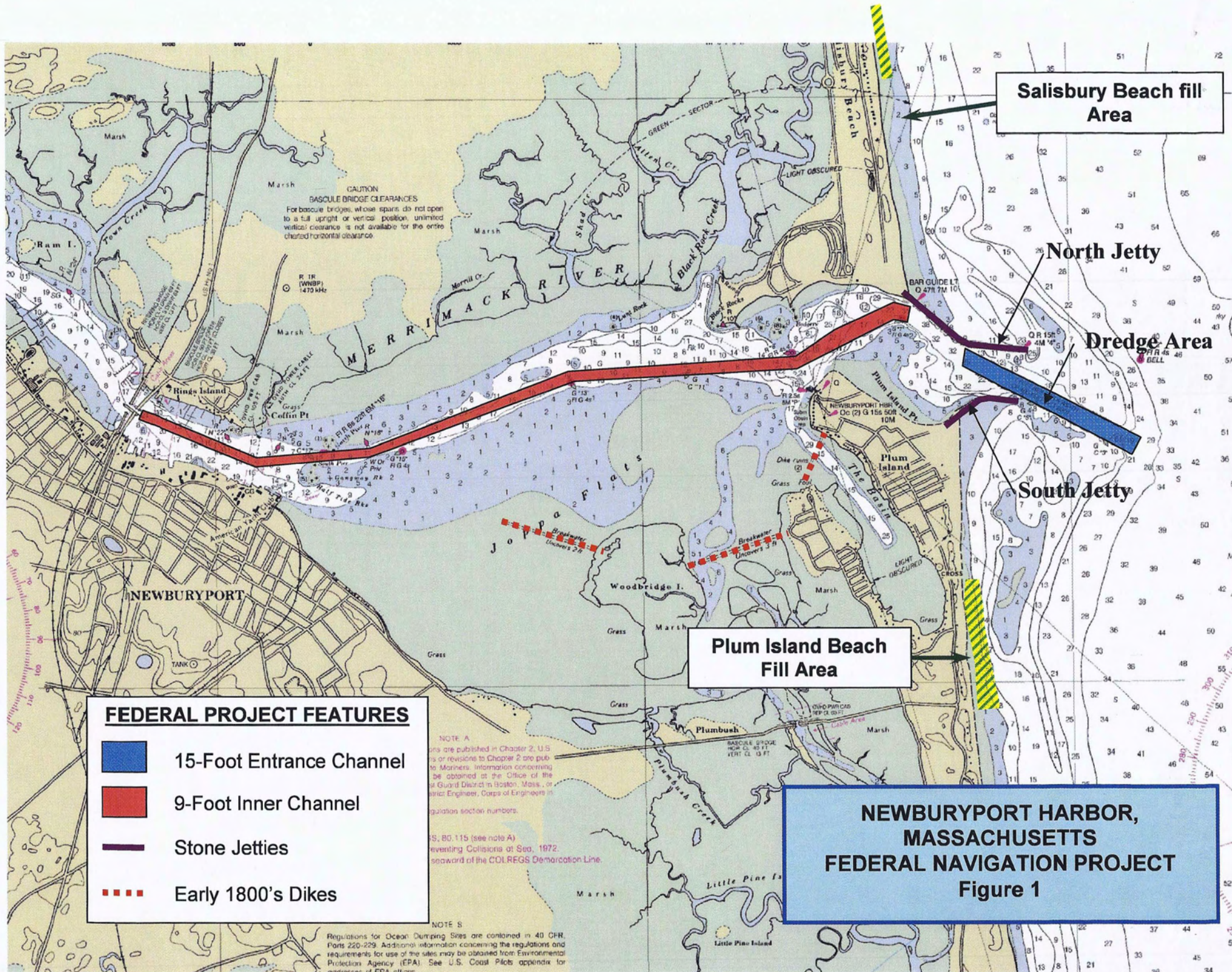
Federal Navigation Project Maintenance and Storm Damage Protection Beneficial Use Project



August 27, 2010

696 Virginia Road, Concord Massachusetts, 01742-2751

1. **Maintenance Dredging and Beach Nourishment:** The Corps of Engineers is proposing to dredge about 165,000 cubic yards of sand from maintenance of the 15-foot entrance channel to Newburyport Harbor, and in partnership with the Massachusetts Department of Conservation and Recreation to place that material on portions of Plum Island and Salisbury Beaches (see Attachment 1 for dredging and disposal plan). The initial 40,000 cy of sand will be placed onto Salisbury Beach and the remaining material will be placed on Plum Island Beach in Newbury. Dredging will be done by a hydraulic cutterhead dredge, which dredges material from the shoal areas of the channel and pumps a slurry comprised of about 15% sand and 85% water through a series of 30 inch pipes to the beach areas. Once the material settles, shore equipment (bulldozers and front-end loaders) will form the material into a beach berm dune. Great Lakes Dredge and Dock Company, headquartered in Oak Brook Illinois, will be the Corps' contractor for the work under a \$5,518,525 contract, using their dredge *Illinois*.
2. **Project Timing:** The Contractor plans to start mobilizing material and equipment to the site starting around 26 August. Pipeline (30" diameter X 40" long), will be trucked to staging areas on Salisbury Beach and Plum Island, beginning August 27th through September 4th. Pipeline will be placed onto the beaches starting after Labor Day weekend on September 7th. No work will occur over Labor Day weekend. Once all the pipeline has been lain and connected, actual dredging of the channel and pumping material onto the beach is estimated to start around 14 September. The material will be placed on Salisbury Beach first and work there will last about 4 days. The dredge will switch pipes and start placing material onto Plum Island, starting September 19th and completing on September 29th. The pipeline will subsequently be dismantled and should be completely removed by October 3rd. Given that the area is subject to the whims of the weather, all dates are subject to change due to weather delays.
3. **Public Access:** Most areas of the beaches will remain open during the work. Access over the pipeline will be provided by sand ramps at most public access points. A portion of the beach near the pipe outflow will be closed for safety purposes, and this closed portion will move daily as work progresses. It is recommended that the public stay clear of the equipment when working for their safety and that of the construction personnel. The work will be ongoing for 24 hours. There will be some noise generated by the equipment and the pumping. In addition, the shore equipment use back up alarms, which for obvious safety reasons, cannot be turned off. Movement of small rocks through the pipe, from time to time, may also cause noise. Work lights will be used on the beach in the immediate area of discharge and dune-building operations at night.
4. **Project Management:** The project will have daily oversight by the Corps of Engineers. The Corps Construction Division will oversee the work and are represented by Project Engineer Bob McCusker and on site Quality Control, Manager, Bob Casoli. Questions and comments regarding the project while work is ongoing should be directed to them and not to the contractor. Overall questions about the Federal project in general can be answered by the Project Manager, Jack Karalius, at 978-318-8288, or in his absence the Chief Navigation Section, Ed O'Donnell, at 978-318-8375, or Mark Habel of the Navigation Planning Section at 978-318-8871.





GREAT LAKES DREDGE & DOCK COMPANY

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CUTTER SUCTION DREDGES: 5) ILLINOIS

Dimensions

Length: 220 ft (67.1 m)
Breadth: 67 ft (20.4 m)
Depth: 12.5 ft (3.8 m)
Overall Length: 320 ft (97.5 m)
Draft: 9 ft (2.7 m)

Operating Parameters

Dig Depth Range: 11.5 to 75 ft (3.5 to 22.9 m)
Suction Diameter: 34 in (864 mm)
Discharge Diameter: 30 in (762 mm)
Ladder Weight: 502 tons (455,407 kg)

Machinery & Power

Fuel Capacity: 175,000 gal (662,445 L)
Cutter Power: 1,785 hp (1,331 kW)
Total Installed Power: 11,350 hp (8,464 kW)

