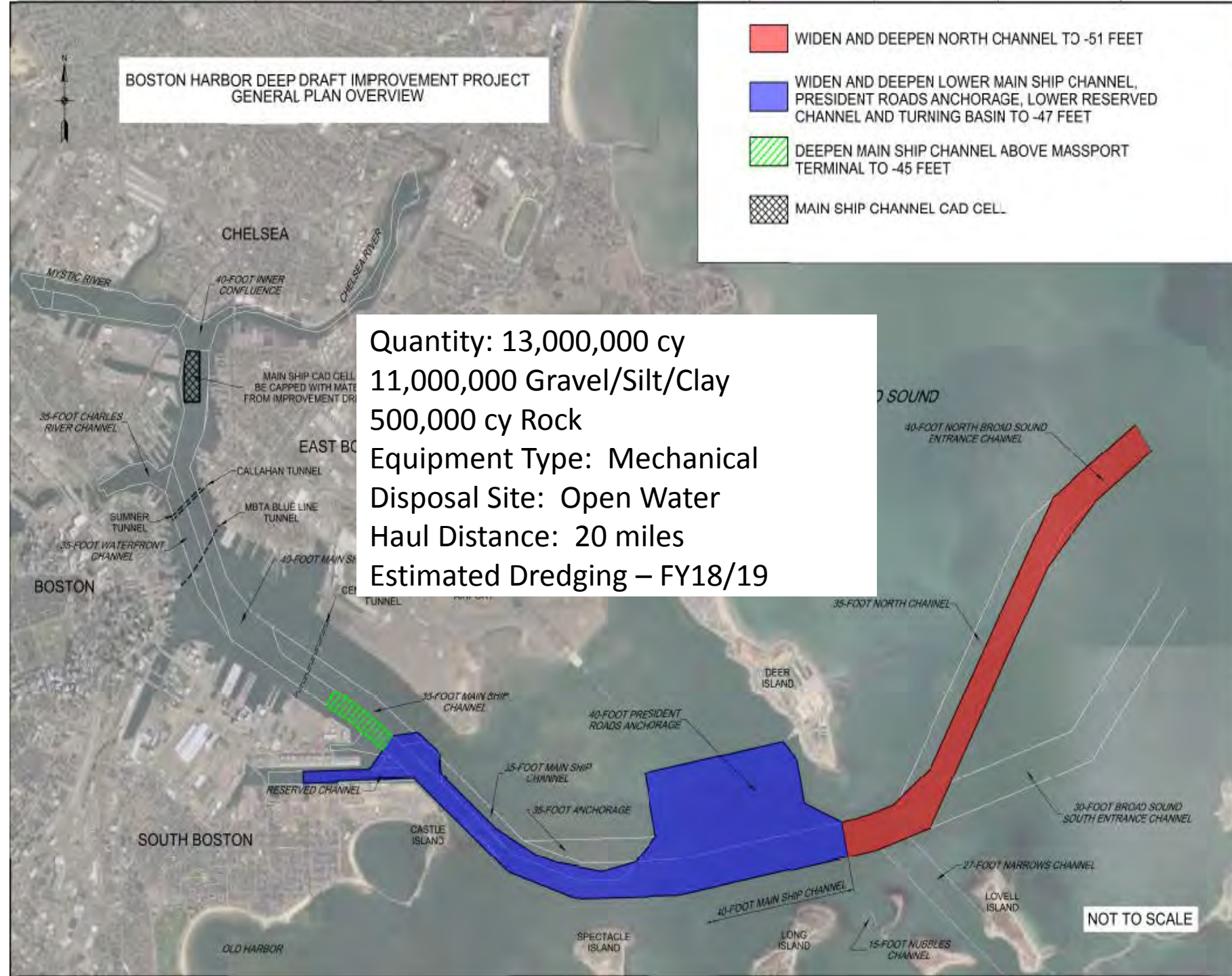


**BOSTON HARBOR DEEP DRAFT IMPROVEMENT PROJECT
GENERAL PLAN OVERVIEW**

- WIDEN AND DEEPEN NORTH CHANNEL TO -51 FEET
- WIDEN AND DEEPEN LOWER MAIN SHIP CHANNEL, PRESIDENT ROADS ANCHORAGE, LOWER RESERVED CHANNEL AND TURNING BASIN TO -47 FEET
- DEEPEN MAIN SHIP CHANNEL ABOVE MASSPORT TERMINAL TO -45 FEET
- MAIN SHIP CHANNEL CAD CELL

Quantity: 13,000,000 cy
 11,000,000 Gravel/Silt/Clay
 500,000 cy Rock
 Equipment Type: Mechanical
 Disposal Site: Open Water
 Haul Distance: 20 miles
 Estimated Dredging – FY18/19



NO.	NAME	DATE

DESIGNED BY:	ISSUE DATE:
DRAWN BY:	SCALE:
CHECKED BY:	DATE:
APPROVED BY:	SHEET # OF #
PROJECT NO.:	
CONTRACT NO.:	
CONTRACT DATE:	
CONTRACT LOCATION:	

BOSTON HARBOR DEEP DRAFT IMPROVEMENT PROJECT
 GENERAL PLAN OVERVIEW

BOSTON HARBOR DEEPENING BOSTON, MASSACHUSETTS

PROJECT SCOPE:

- Deepening and widening entrance channel to 51 ft MLLW.
- Deepening and widening main ship channel, turning basing, presidents roads anchorage and reserve channel to 47 ft MLLW
- **Quantity** – 11 mcy ordinary matl/500 kcy rock.

Estimated Value: \$340 m

DREDGING TECHNIQUES:

- **Dredge type:** Clamshell
- **Material type:** Hard Clay, Till and Rock.
- **Material placement:** Mass Bay Disposal Site
- **Windows:** None anticipated for dredging with appropriate sequencing of dredge areas.
- **Expected post-construction maintenance cycle/quantities:** 20 years, very minimal cy expected.

MILESTONES:

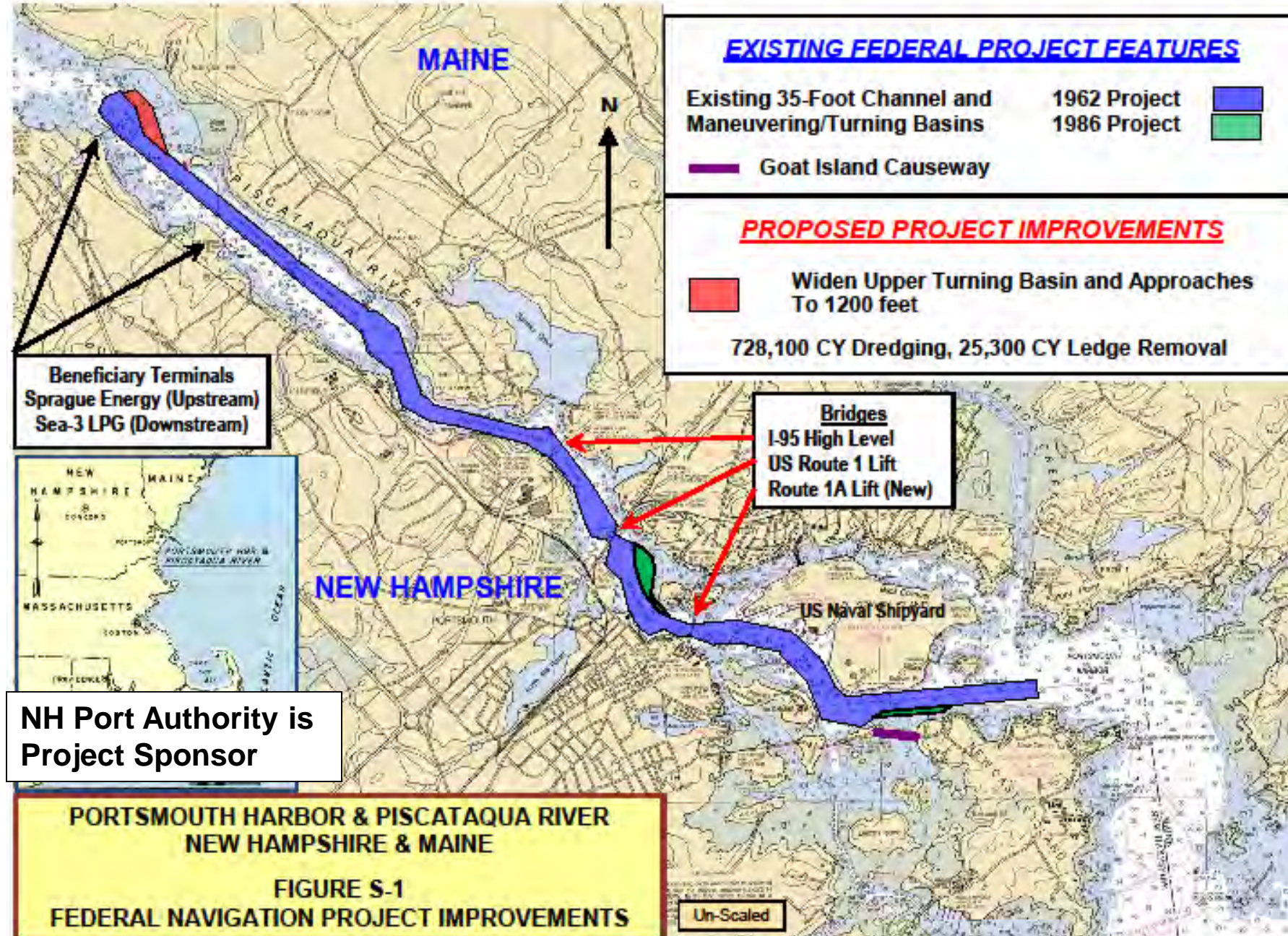
- Complete Design – FY 17
- **Dredging Planned in two phases** –
 - 1) Ordinary Material and mechanical rock removal FY18
 - 2) Removal of Fast Rock after construction of contract 1.

Status: Contract 1 Design ongoing

ISSUES/REMARKS:

- **Environmental issues:** Sequencing of dredging and rock removal to avoid habitat during critical TOY, sedimentation effects of dredging operations. Working on Best Management Practices for blasting to mitigate environmental impacts with permitting agencies.
- **Concerns:** agency and public perceptions of impacts from blasting
- **Challenges:** Working around Logan International Airport airspace restricts access to portions of proposed dredge areas.

Existing Federal Project and Project Area



PORTSMOUTH HARBOR & PISCATQUA RIVER NAVIGATION IMPROVEMENT PROJECT

New Hampshire & Maine

PROJECT SCOPE:

- Widening the upper-most turning basin from 800 ft to 1200 ft wide.
- The recommended plan includes dredging approximately 728,100 cy of sandy glacial till would be dredged and 25,300 cy of rock removal.

MILESTONES:

- Preconstruction, Engineering & Design complete Fall 2017

DREDGING TECHNIQUES:

- **Dredge type:** Mechanical
- **Material type:** Sand, gravel, rock
- **Material placement:** Isle of Shoals North (IOSN)
- **Windows:** Nov 15 – Mar 1
- **Expected post-construction maintenance cycle/quantities:** 10-15 yrs/100,000 cy

ISSUES/REMARKS:

- **Environmental issues:** Eelgrass bed outside of turning basin; Fisheries concerns at open water placement site
- **Concerns:** WRDA 2016 Authorization - ??
- **Challenges:** Authorization & funding; IOSN designation