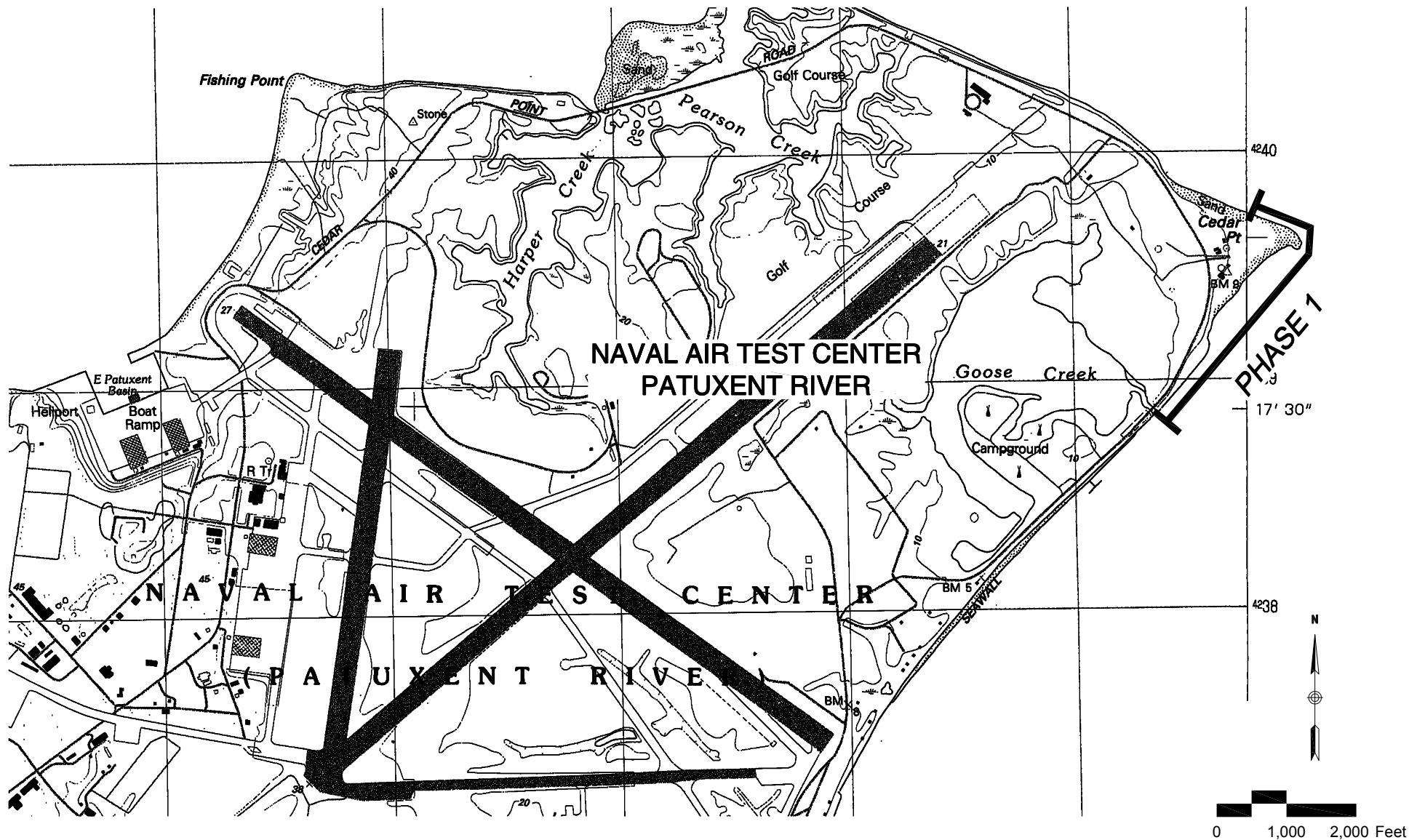




COASTLINE DESIGN, P.C.

P.O. BOX 157
ACHILLES, VIRGINIA 23001
(804) 642-2158

ADJACENT PROPERTY OWNERS:

- 1.
- 2.

DATUM: MEAN LOW WATER

CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LOCATION MAP

**AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE**

IN: St. MARY'S COUNTY, MARYLAND

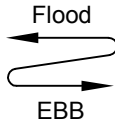
PURPOSE: SHORELINE RESTORATION

**APPLICATION BY:
NAVAL AIR STATION
PATUXENT RIVER**

**REVISED: DECEMBER 2012
DATE: FEBRUARY, 2009**

SHEET: 1 OF 10

Chesapeake Bay

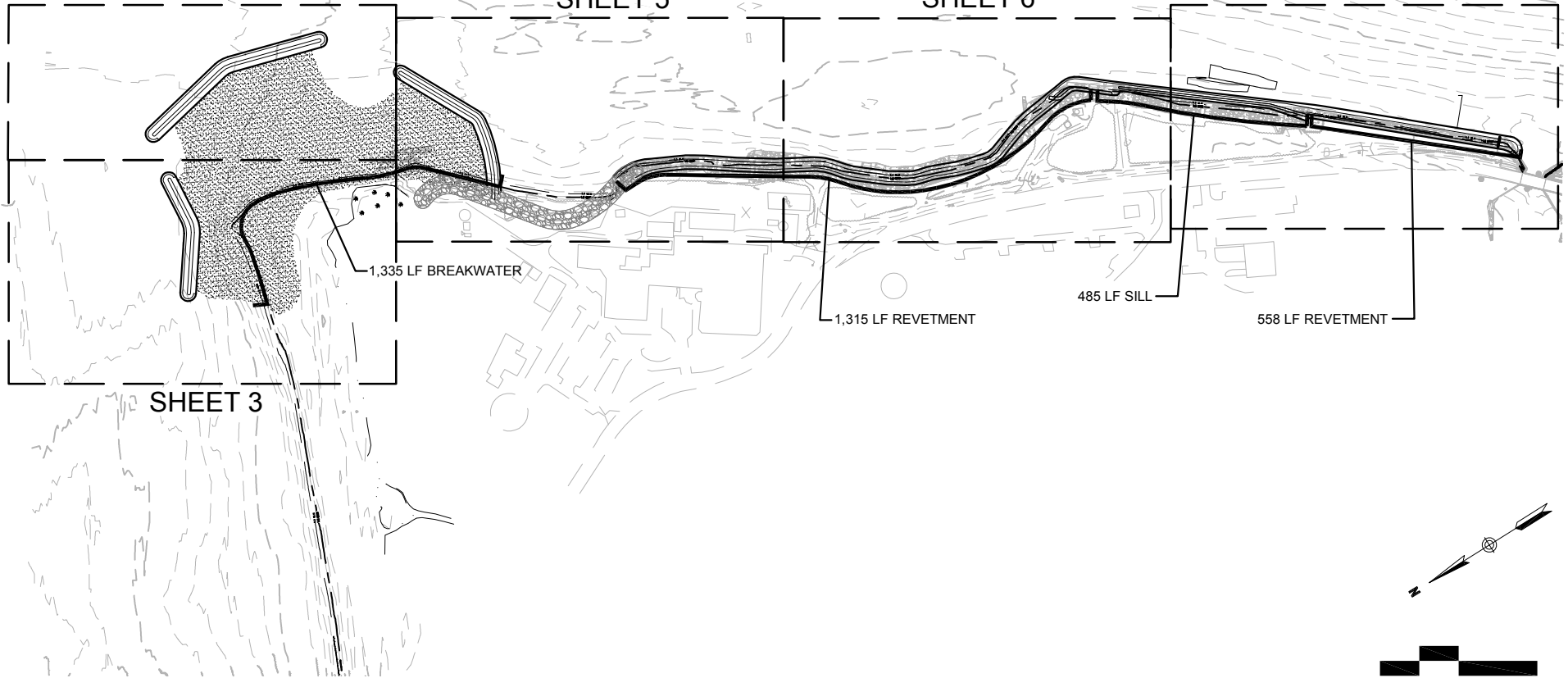


SHEET 4

SHEET 5

SHEET 6

SHEET 7



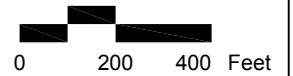
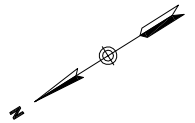
SHEET 3

1,335 LF BREAKWATER

1,315 LF REVETMENT

485 LF SILL

558 LF REVETMENT



COASTLINE DESIGN, P.C.



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(804) 642-2158

ADJACENT PROPERTY
OWNERS:

- 1.
- 2.

DATUM: MEAN LOW WATER

CHESAPEAKE SHORE PATUXENT RIVER PHASE 1

SHEET INDEX

AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE

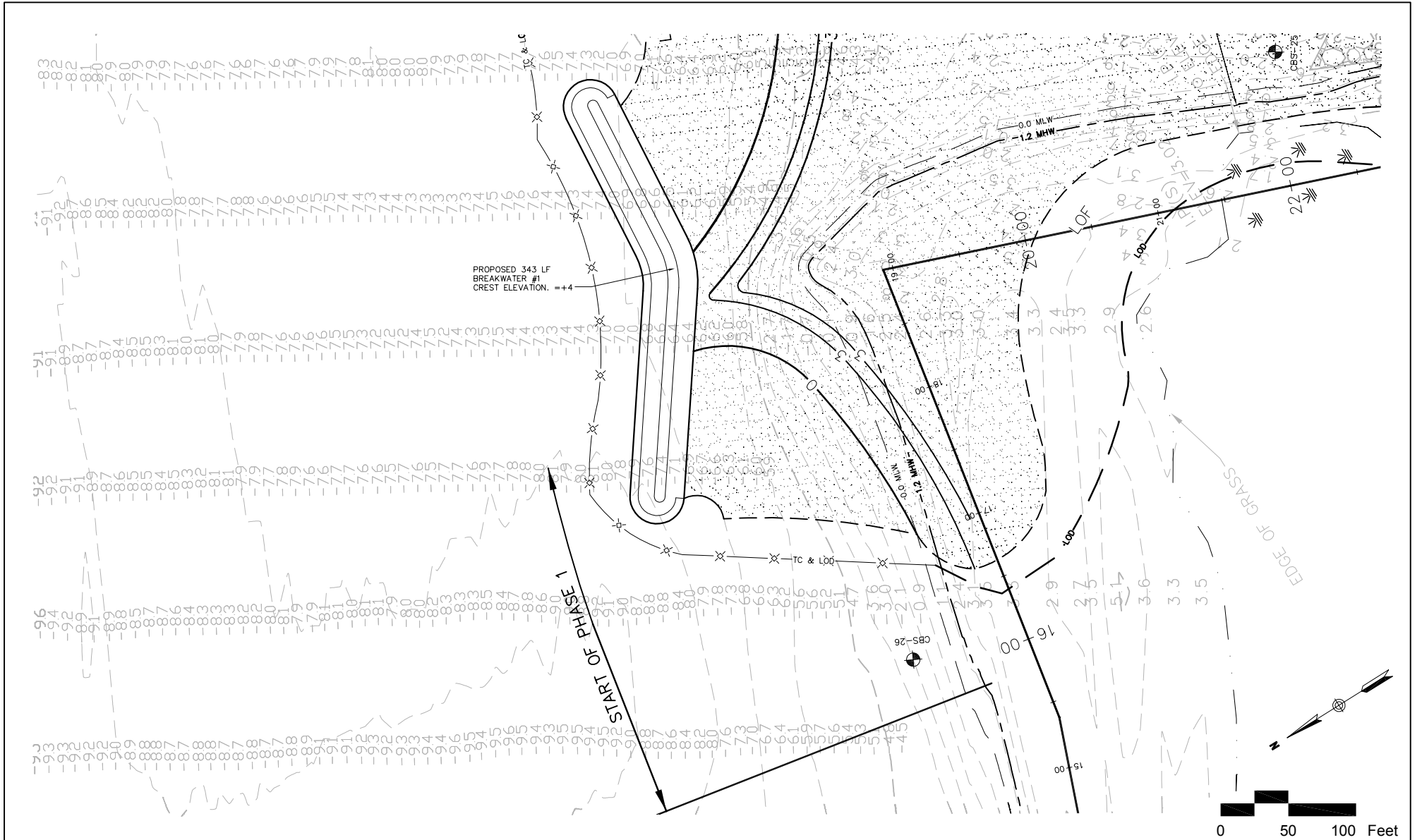
IN: St. MARY'S COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
NAVAL AIR STATION
PATUXENT RIVER

REVISED: DECEMBER 2012
DATE: FEBRUARY, 2009

SHEET: 2 OF 10



COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: 1. 2. DATUM: MEAN LOW WATER	CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LAYOUT PLAN	APPLICATION BY: NAVAL AIR STATION PATUXENT RIVER REVISED: DECEMBER 2012 DATE: FEBRUARY, 2009 SHEET: 3 OF 10
		AT: N.A.S. PATUXENT RIVER CHESAPEAKE SHORE IN: St. MARY'S COUNTY, MARYLAND	

RECLAMATION AREA IMPACTS

SAND FILL AREA <MHW 222,887 SF, 39,889 CUYD.
TOTAL SAND FILL AREA 269,253 SF, 42,926 CUYD.
TOTAL BREAKWATER AREA 49,534 SF.
TOTAL BREAKWATER LENGTH 1,335 LF.

Chesapeake Bay



PROPOSED 539 LF. BREAKWATER #2
CREST ELEVATION: +4

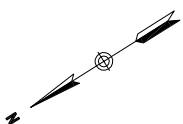
37' MAXIMUM
BREAKWATER WIDTH

368 MAXIMUM BREAKWATER
CHANNELWARD EXTENT

BAY B

BAY A

SAND FILL



0 50 100 Feet

COASTLINE DESIGN, P.C.



P.O. BOX 157
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(804) 642-2158

ADJACENT PROPERTY OWNERS:

- 1.
- 2.

DATUM: MEAN LOW WATER

CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LAYOUT PLAN

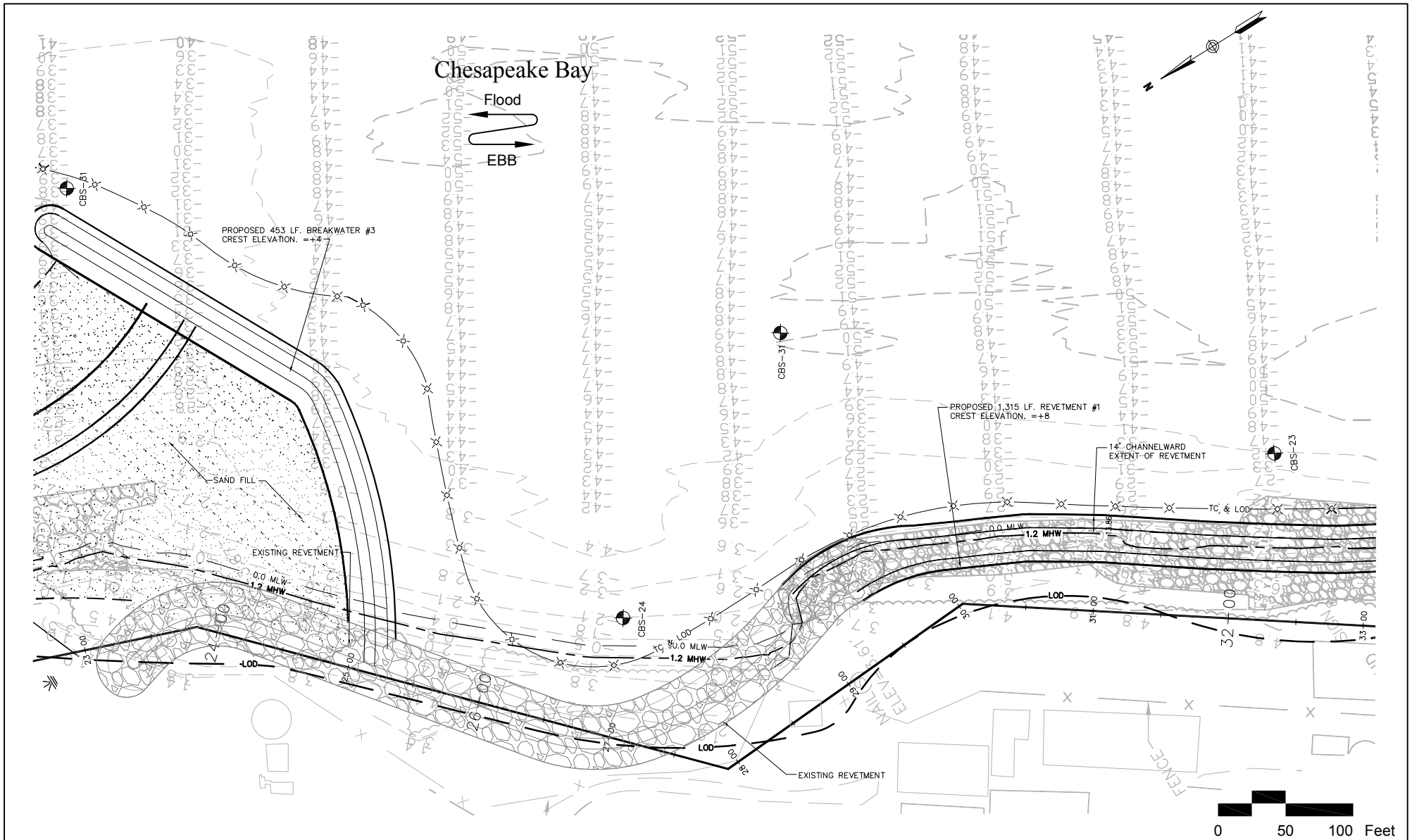
AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE
IN: St. MARY'S COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

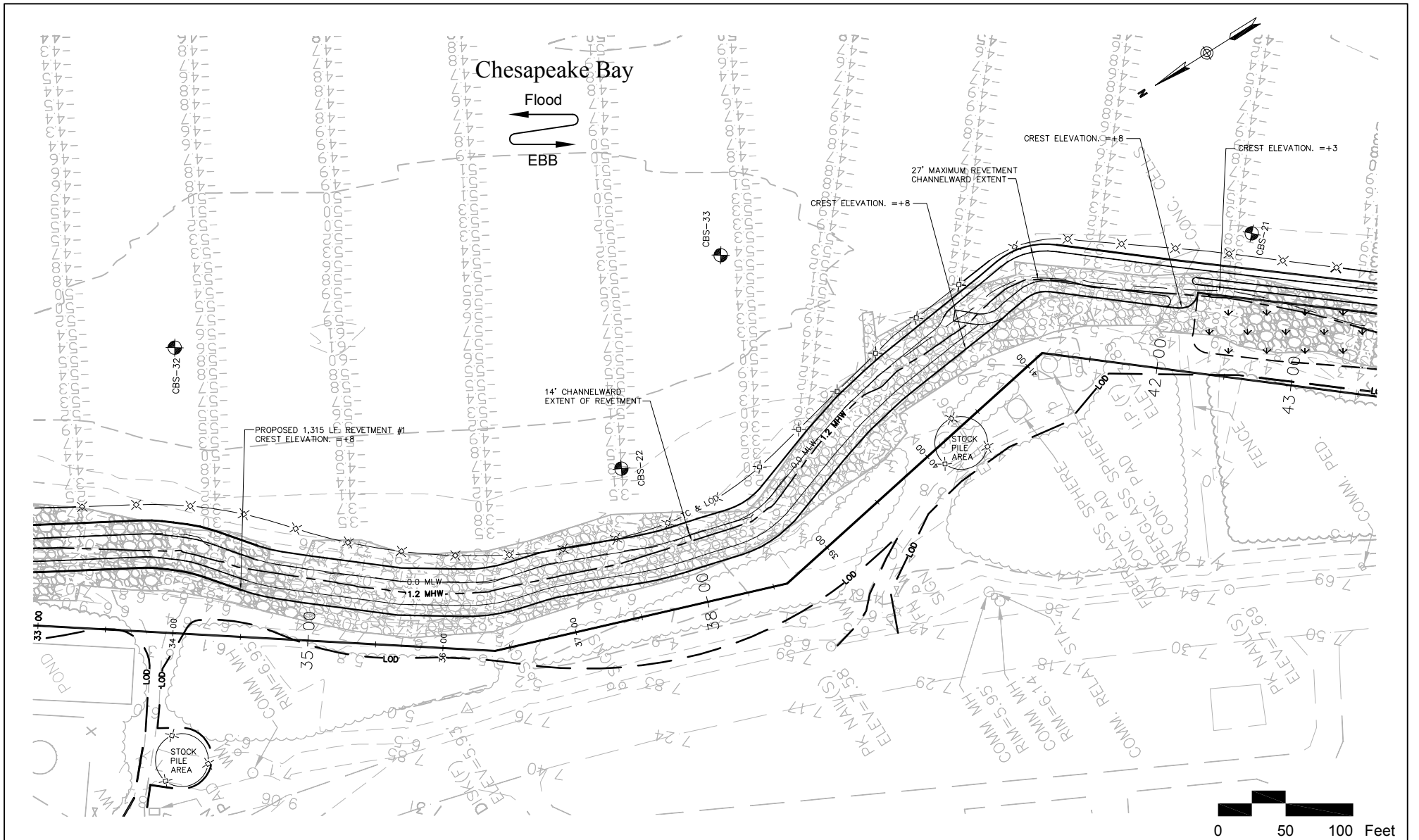
APPLICATION BY:
NAVAL AIR STATION
PATUXENT RIVER

REVISED: DECEMBER 2012
DATE: FEBRUARY, 2009

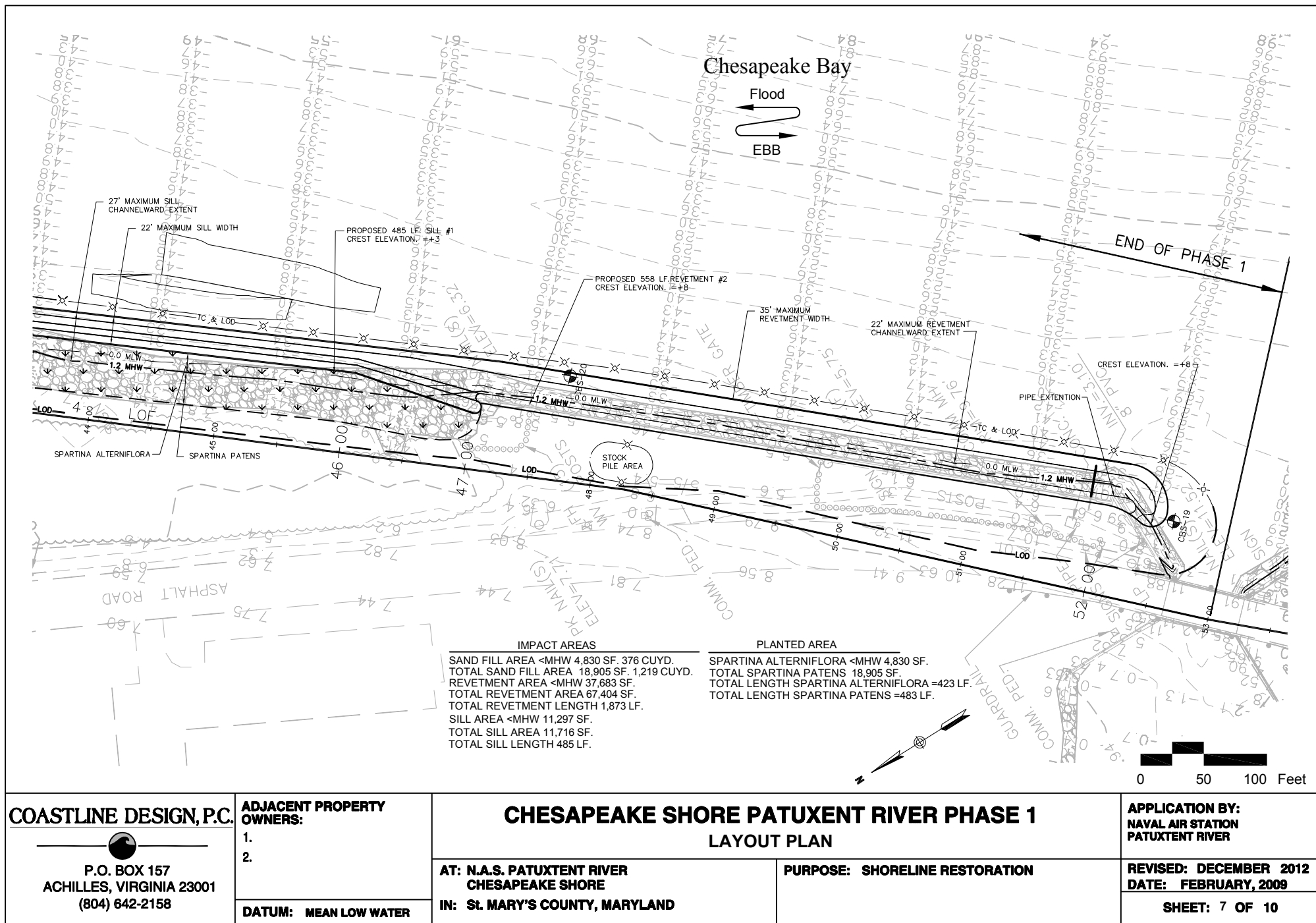
SHEET: 4 OF 10



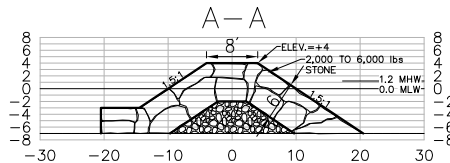
COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: 1. 2. DATUM: MEAN LOW WATER	CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LAYOUT PLAN AT: N.A.S. PATUXENT RIVER CHESAPEAKE SHORE IN: St. MARY'S COUNTY, MARYLAND		APPLICATION BY: NAVAL AIR STATION PATUXENT RIVER REVISED: DECEMBER 2012 DATE: FEBRUARY, 2009 SHEET: 5 OF 10
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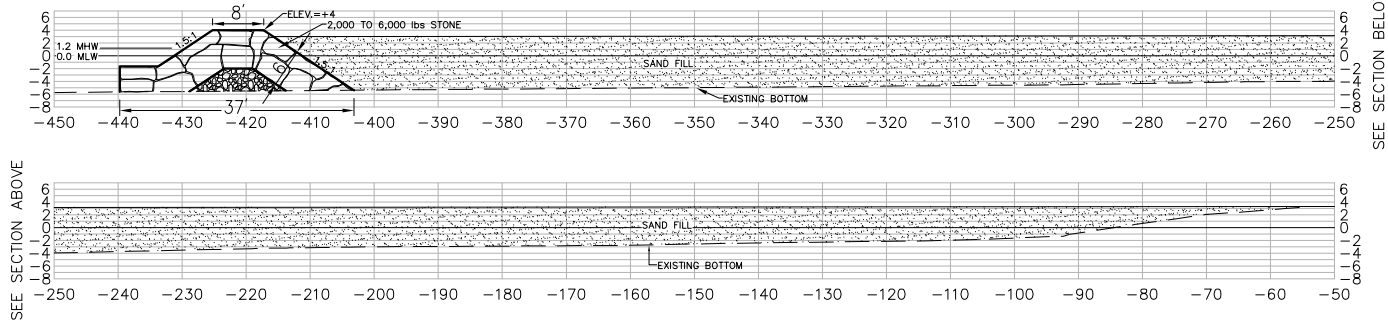
COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: 1. 2. DATUM: MEAN LOW WATER	CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LAYOUT PLAN AT: N.A.S. PATUXENT RIVER CHESAPEAKE SHORE IN: St. MARY'S COUNTY, MARYLAND		APPLICATION BY: NAVAL AIR STATION PATUXENT RIVER REVISED: DECEMBER 2012 DATE: FEBRUARY, 2009 SHEET: 6 OF 10
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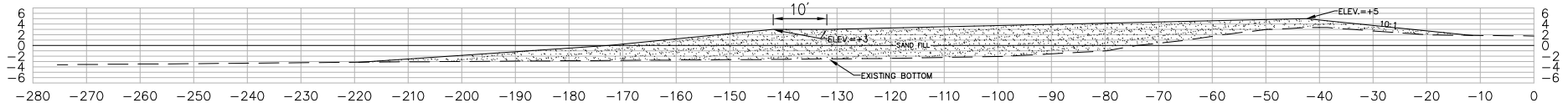
COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: 1. 2. DATUM: MEAN LOW WATER	CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 LAYOUT PLAN AT: N.A.S. PATUXENT RIVER CHESAPEAKE SHORE IN: St. MARY'S COUNTY, MARYLAND		APPLICATION BY: NAVAL AIR STATION PATUXENT RIVER REVISED: DECEMBER 2012 DATE: FEBRUARY, 2009 SHEET: 7 OF 10
		PURPOSE: SHORELINE RESTORATION		



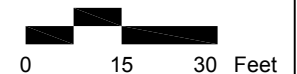
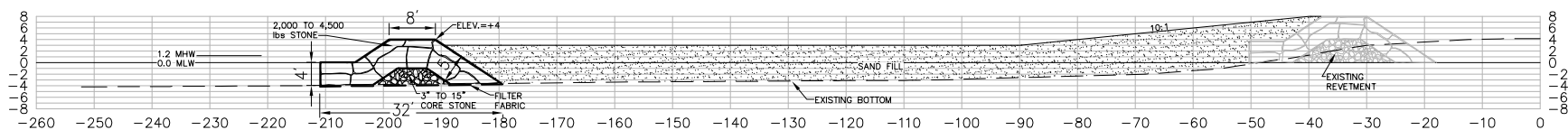
TYPICAL CEDAR PT. 20+00



TYPICAL BAY BEACH 22+00



TYPICAL BREAK WATER-TOMBOLO-DUNE WITH ROCK CORE 24+00



COASTLINE DESIGN, P.C.


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CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 SECTIONS

AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE
IN: St. MARY'S COUNTY, MARYLAND

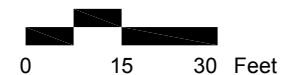
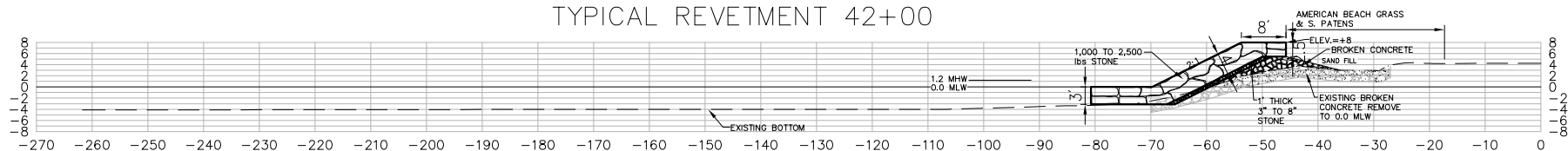
PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
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PATUXENT RIVER

REVISED: DECEMBER 2012
DATE: FEBRUARY, 2009

SHEET: 8 OF 10

TYPICAL REVETMENT 42+00



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CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 SECTIONS

AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE
IN: St. MARY'S COUNTY, MARYLAND

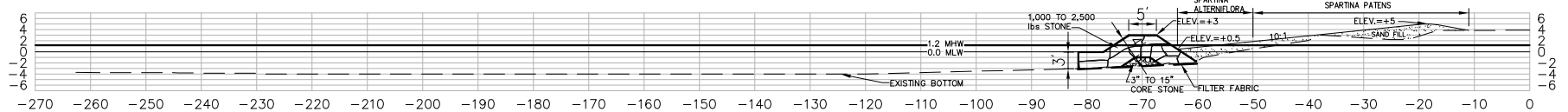
PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
NAVAL AIR STATION
PATUXENT RIVER

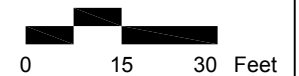
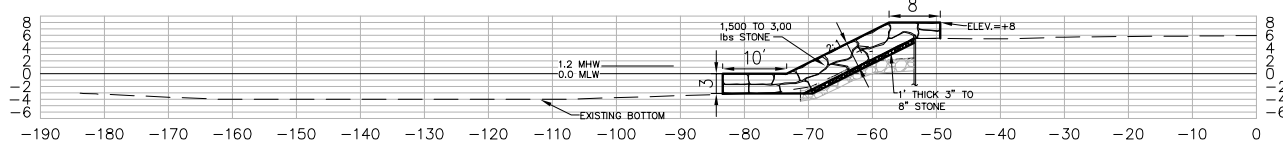
REVISED: DECEMBER 2012
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TYPICAL SILL 43+00 TO 46+00



TYPICAL REVETMENT 47+00 TO 52+00



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DATUM: MEAN LOW WATER

CHESAPEAKE SHORE PATUXENT RIVER PHASE 1 SECTIONS

AT: N.A.S. PATUXENT RIVER
CHESAPEAKE SHORE

IN: St. MARY'S COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
NAVAL AIR STATION
PATUXENT RIVER

REVISED: DECEMBER 2012
DATE: FEBRUARY, 2009

SHEET: 10 OF 10