



**U.S. Army Corps
of Engineers**
Baltimore District

Public Notice

In Reply to Application Number
**CENAB-OP-RMS(U.S. NAVY, NAVAL SUPPORT FACILITY, INDIAN
HEAD) 2007-08519-M03**

08-66

Comment Period: October 6, 2008 to November 6, 2008

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED.

The Baltimore District has received an application for a Department of the Army Permit pursuant to Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act (33 U.S.C. 1344), as described below:

APPLICANT: Naval Support Facility, Indian Head
South Potomac
4271 Potomac Drive
Dahlgren, Virginia 22448-5100

LOCATION: In tidal waters of the Potomac River, at the mouth of Mattawoman Creek, Indian Head, Charles County, Maryland.

WORK: The purpose of the work is to protect shorelines from further erosion, protect existing infrastructure, and wildlife habitat. The shoreline stabilization will occur in three phases consisting of a series of stone sills and breakwaters along 34,000 linear feet of the Potomac River and 1,700 feet of the Mattawoman Creek. Sand fill will be placed behind the sills and breakwaters to create intertidal wetlands, dunes, and riparian buffers. All work is to be completed in accordance with the enclosed plan(s). If you have any questions concerning this matter, please contact Mr. Steven Harman at (410) 962-6082.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties,

water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of the Environment. Any written comments concerning the work described above which relate to water quality certification must be received by the Standards and Certification Division Maryland Department of the Environment, Montgomery Park Business, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1715, within the comment period as specified above to receive consideration. Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, US Army Corps of Engineers, Baltimore District, PO Box 1715, Baltimore, Maryland 21230-1715, within the comment period as specified above to receive consideration. The 401 certifying agency has a statutory limit of one year to make its decision.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion therein are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

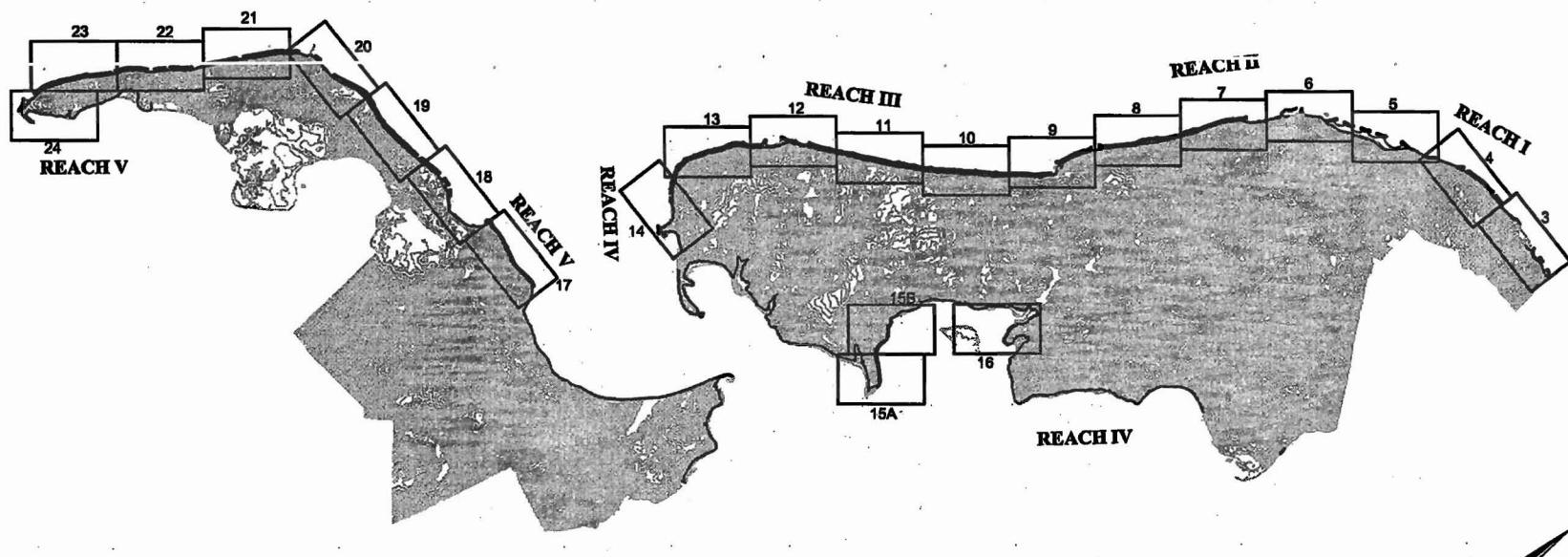
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act. Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, US Army Corps of Engineers, Baltimore District, PO Box 1715, Baltimore, Maryland 21203-1715, within the comment period as specified as above to receive consideration. Also, it must clearly state forth the interest which may be adversely affected by this activity in the manner in which the interest may be adversely affected.

It is requested that you communicate the foregoing information concerning the proposed work to any persons known by you to be interested and not being known to this office, who did not receive a copy of this notice.



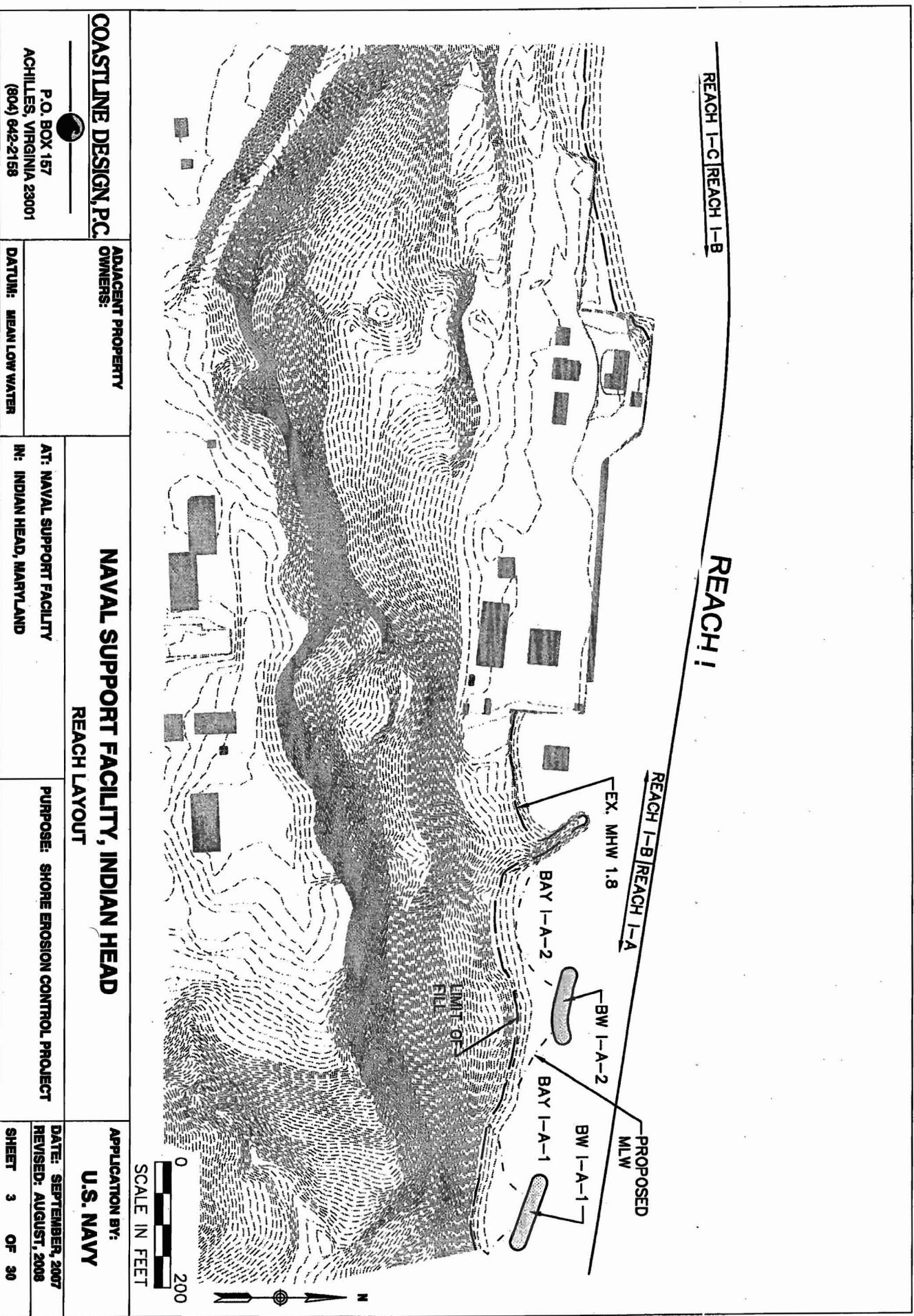
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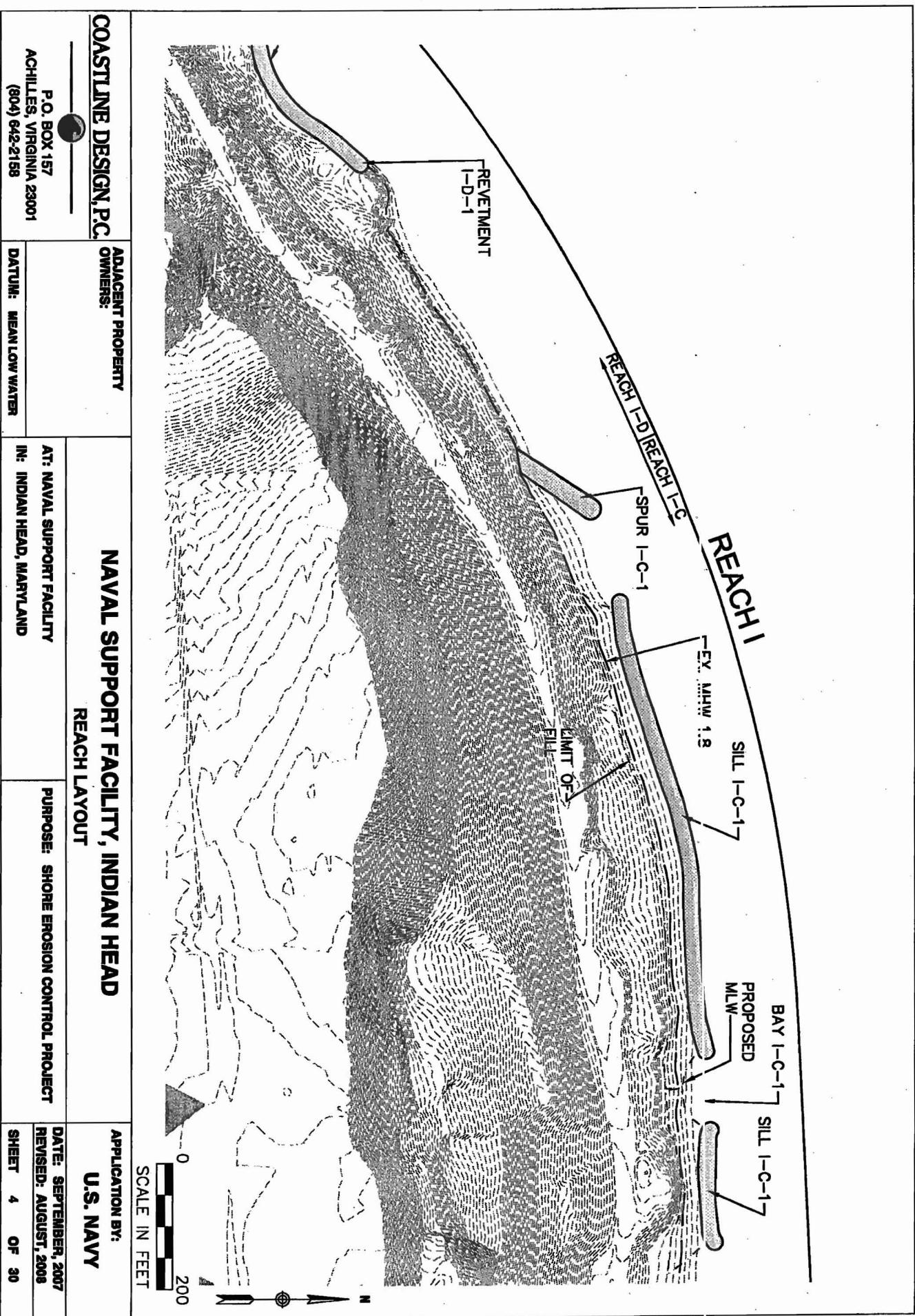
COASTLINE DESIGN, P.C.	ADJACENT PROPERTY OWNERS:	NAVAL SUPPORT FACILITY, INDIAN HEAD LOCATION MAP		APPLICATION BY: U.S. NAVY
P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
	DATUM: MEAN LOW WATER			SHEET 1 OF 30

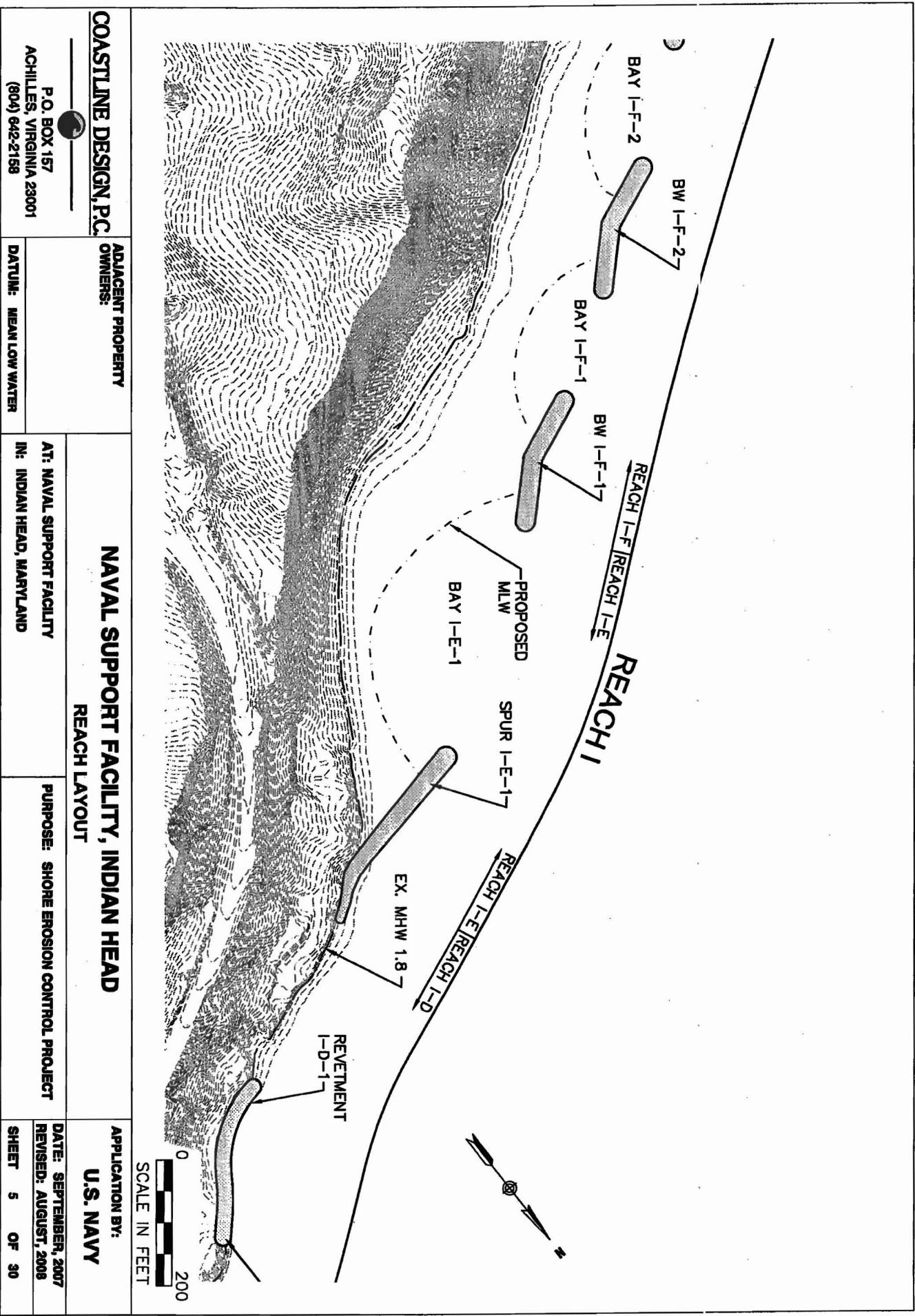


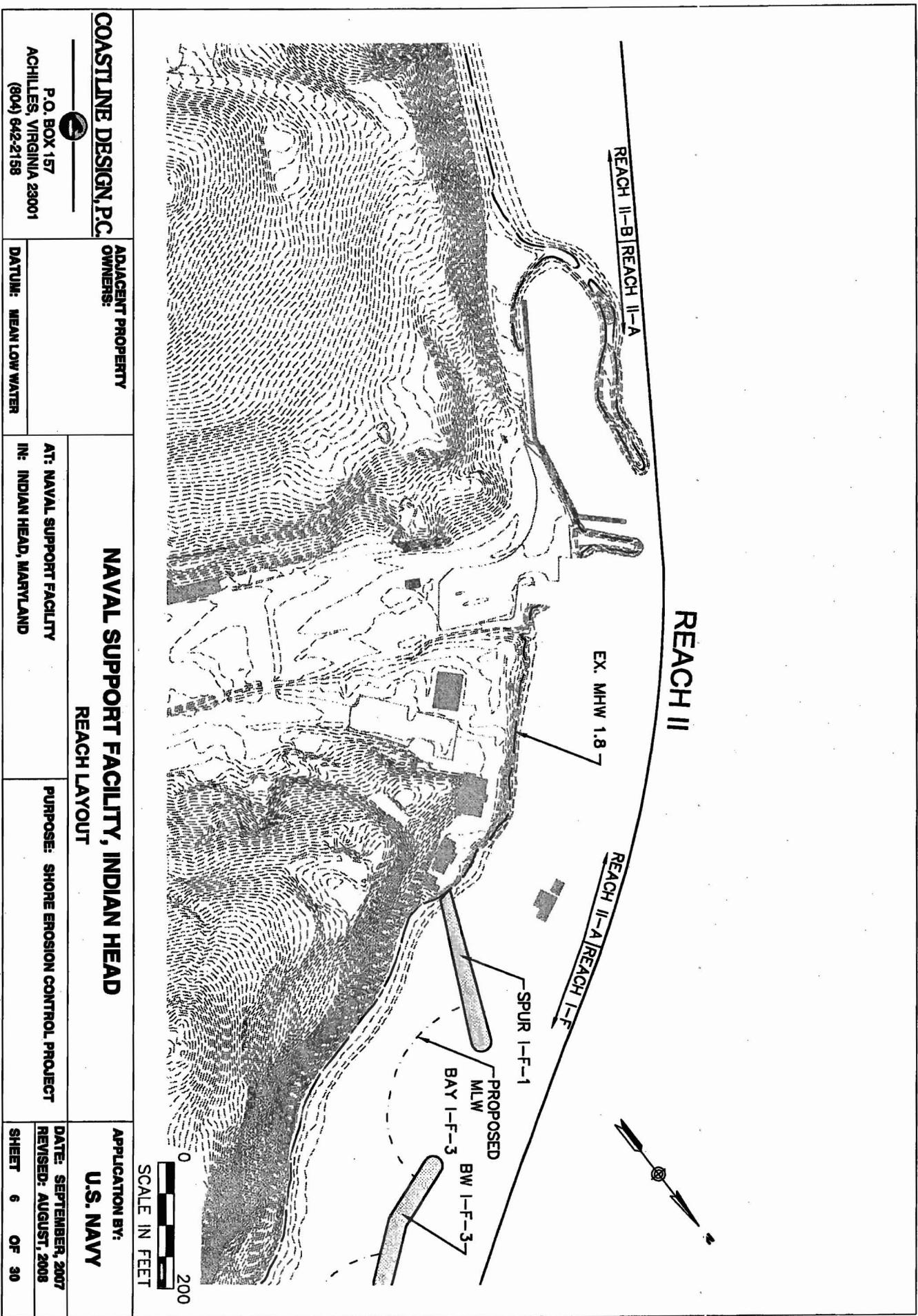
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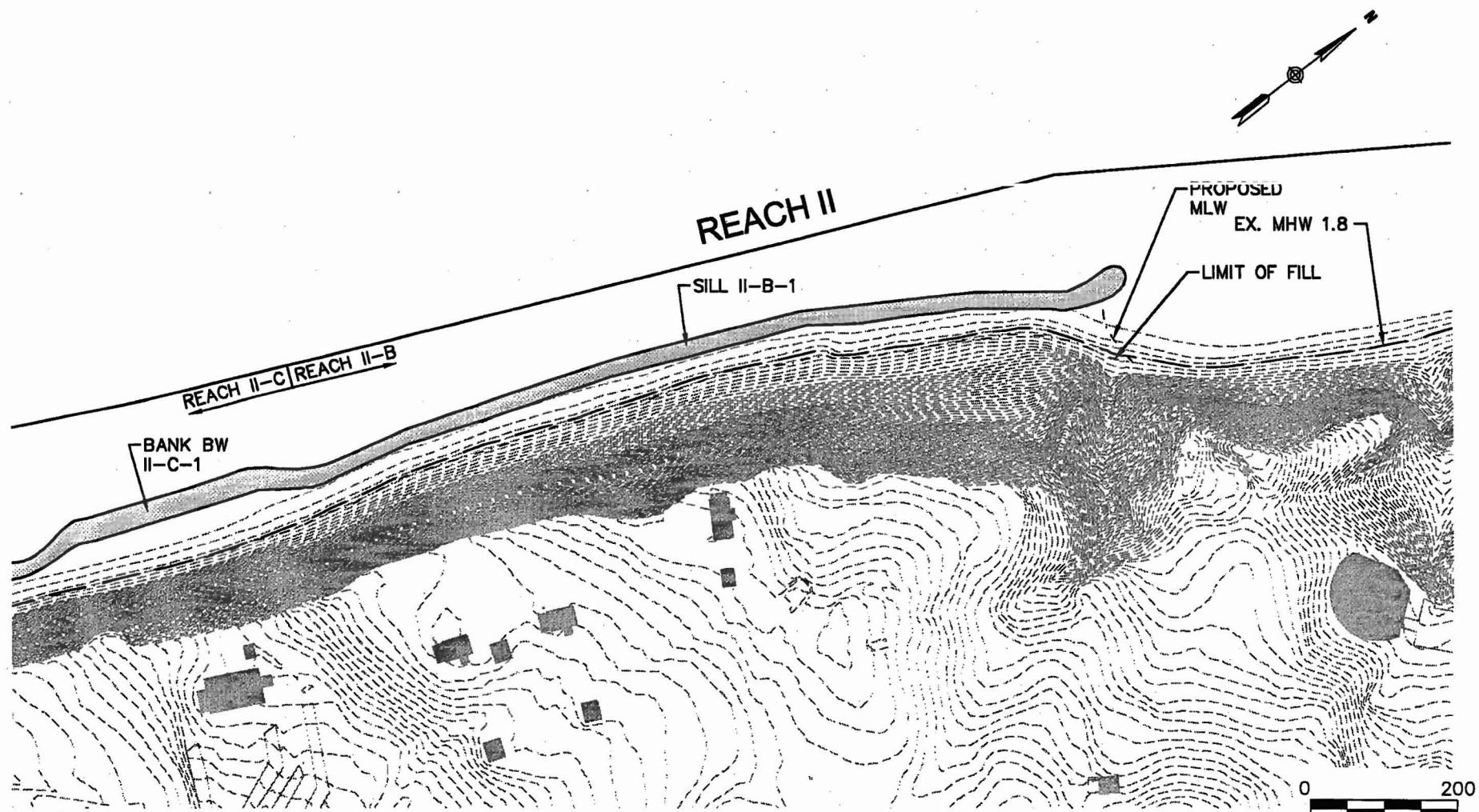
COASTLINE DESIGN, P.C.	ADJACENT PROPERTY OWNERS:	NAVAL SUPPORT FACILITY, INDIAN HEAD SHEET INDEX	APPLICATION BY: U.S. NAVY
P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
DATUM: MEAN LOW WATER		PURPOSE: SHORE EROSION CONTROL PROJECT	SHEET 2 OF 30



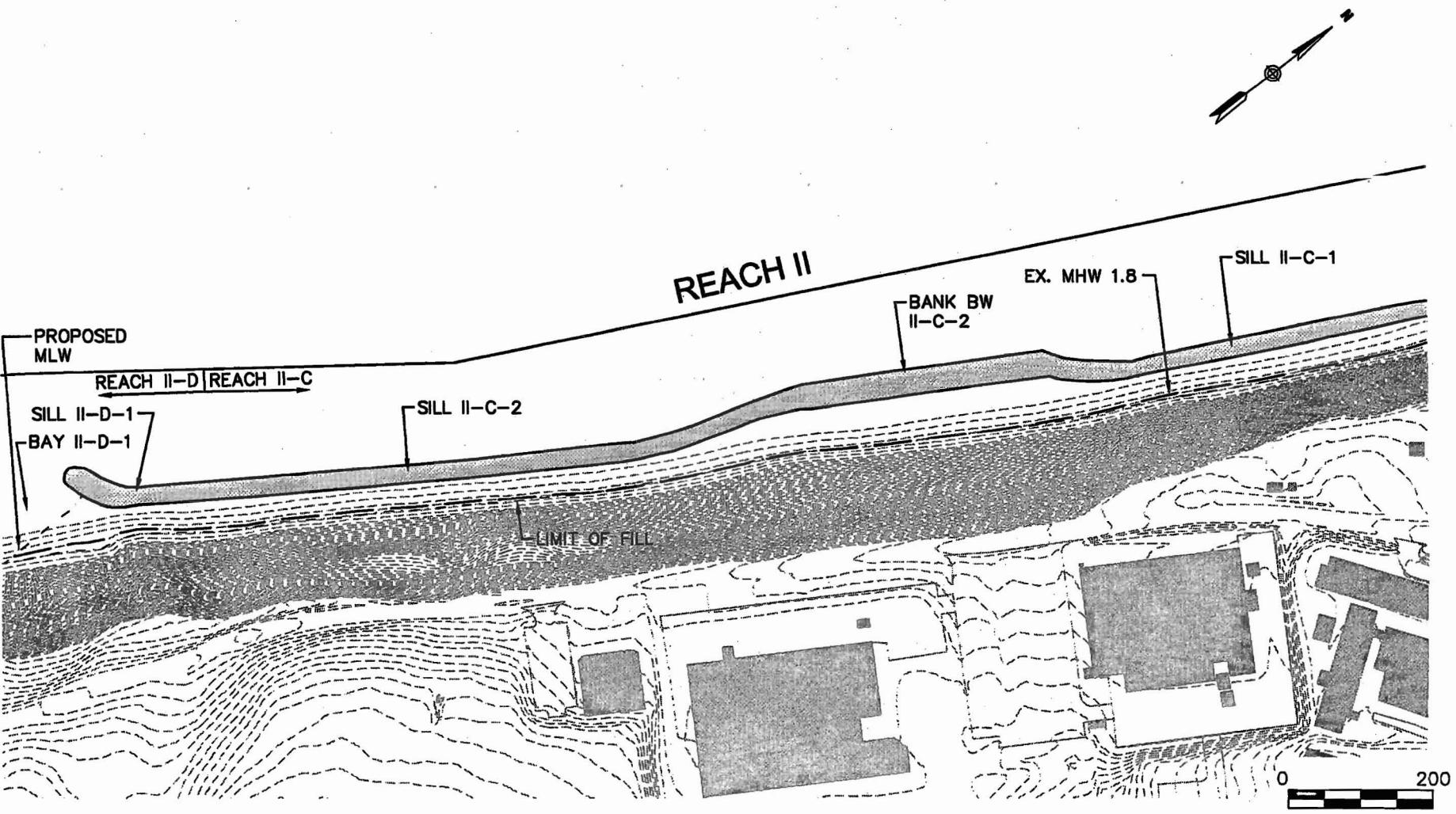




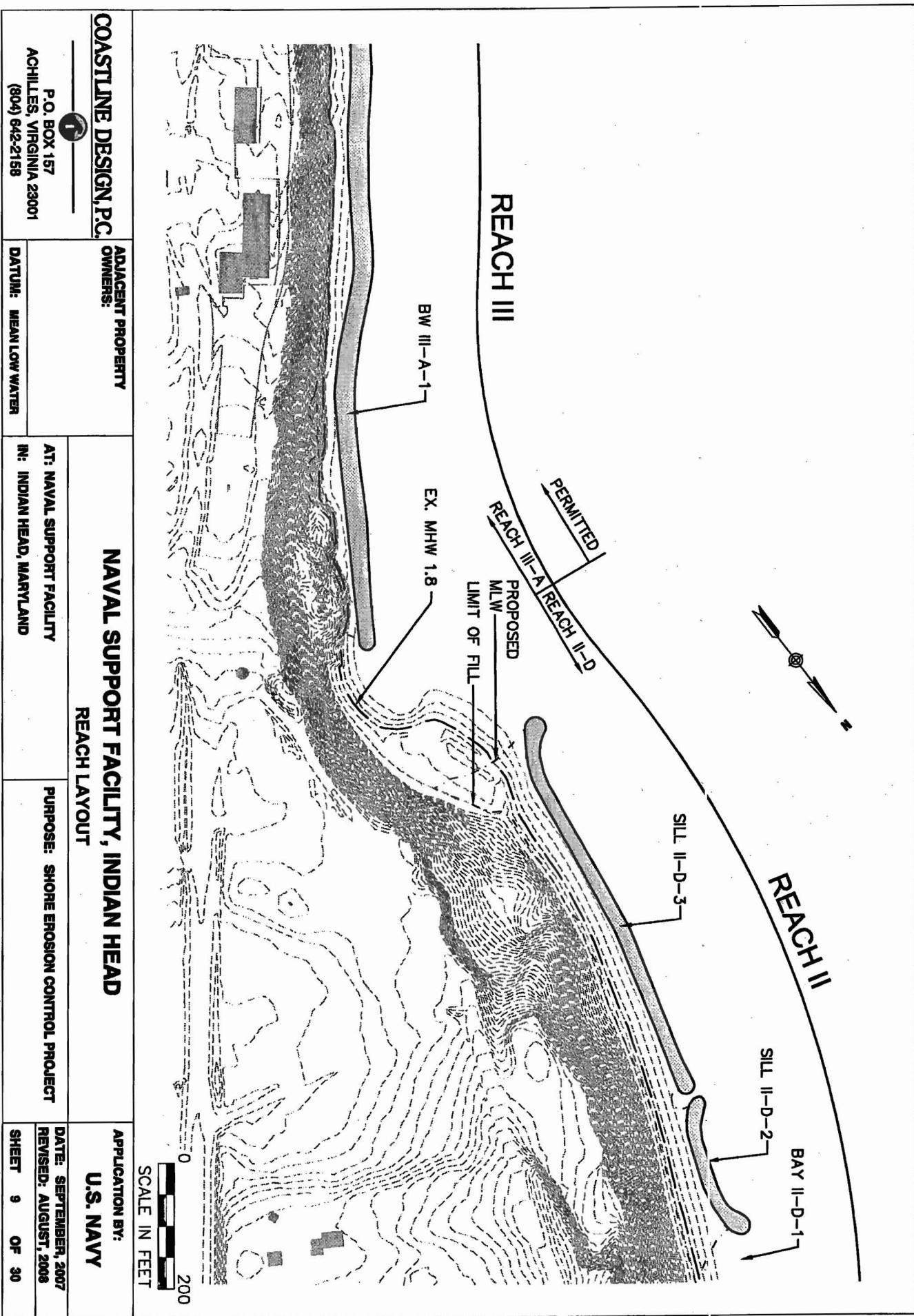


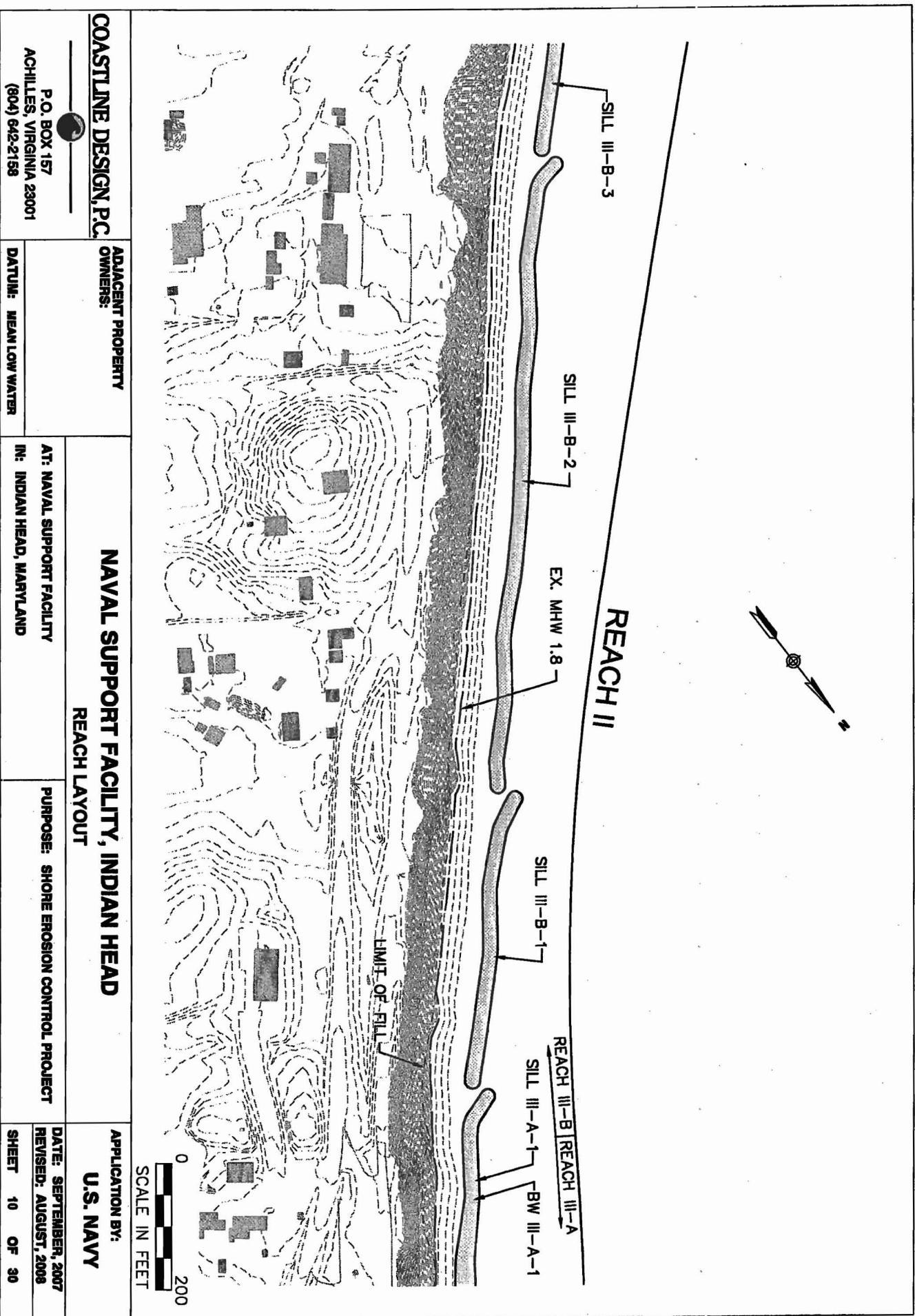


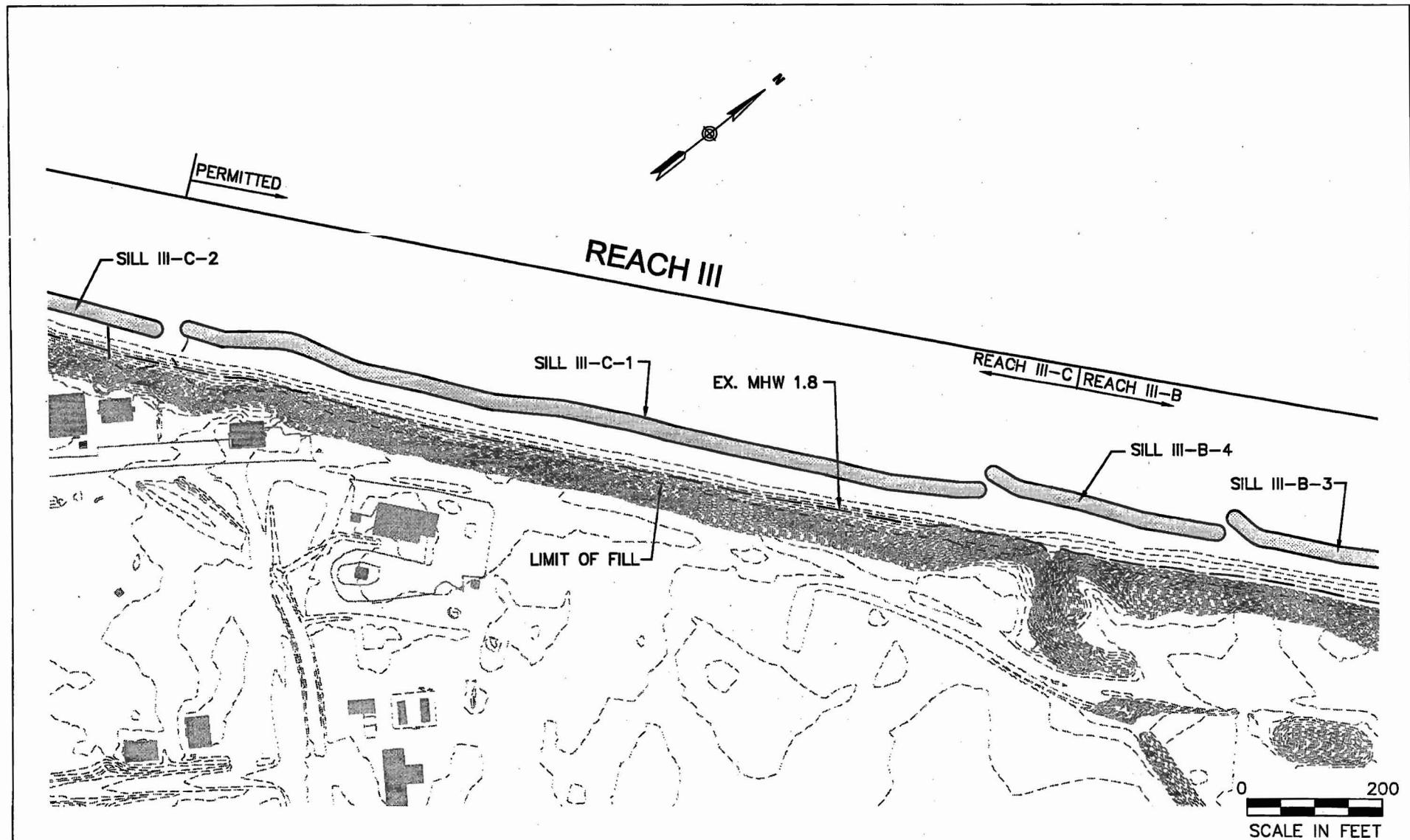
COASTLINE DESIGN, P.C.	ADJACENT PROPERTY OWNERS:	NAVAL SUPPORT FACILITY, INDIAN HEAD REACH LAYOUT		APPLICATION BY: U.S. NAVY
P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
	DATUM: MEAN LOW WATER			SHEET 7 OF 30



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 P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158			DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
DATUM: MEAN LOW WATER	AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	SHEET 8 OF 30







COASTLINE DESIGN, P.C.

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

ADJACENT PROPERTY OWNERS:

DATUM: MEAN LOW WATER

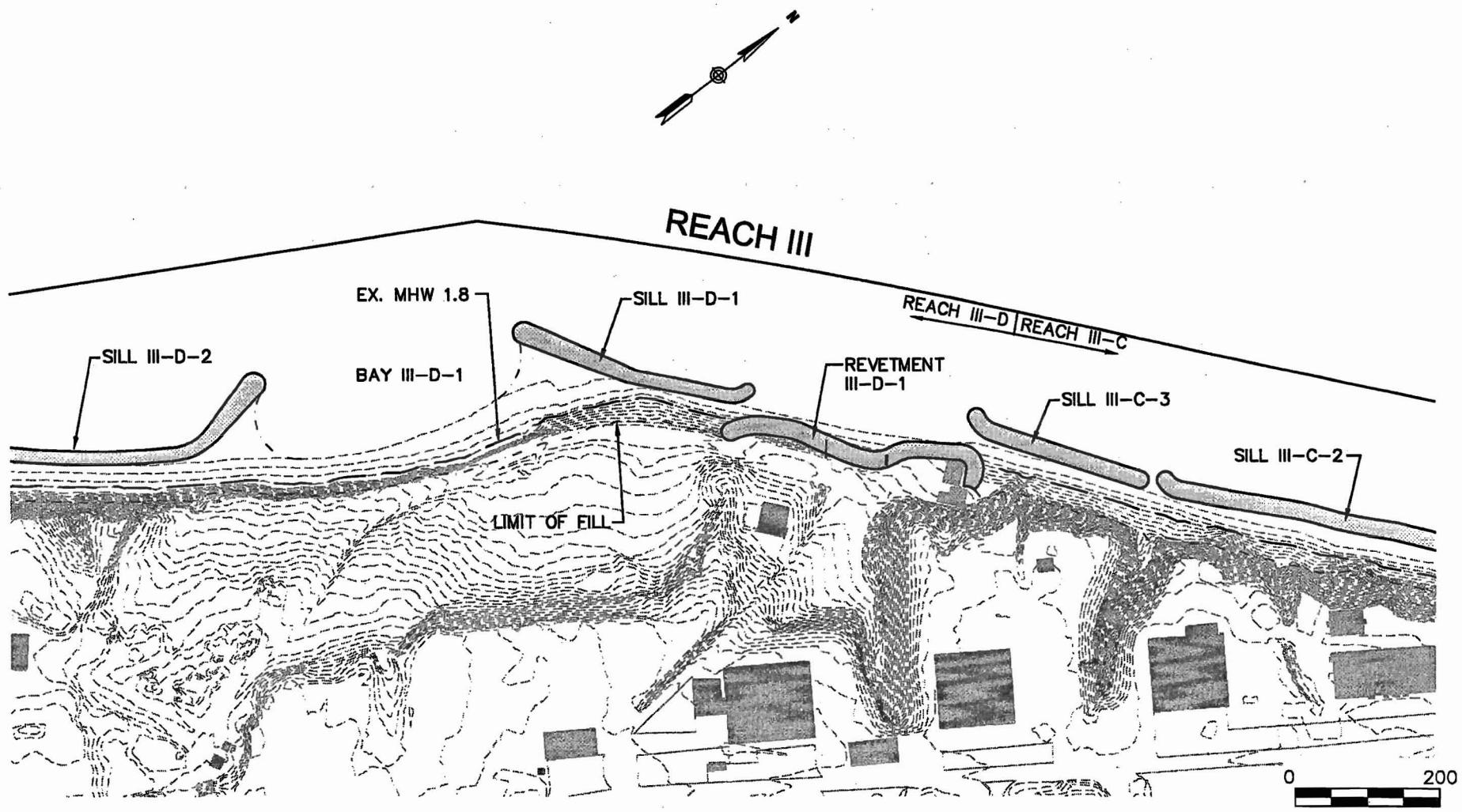
**NAVAL SUPPORT FACILITY, INDIAN HEAD
REACH LAYOUT**

AT: NAVAL SUPPORT FACILITY
IN: INDIAN HEAD, MARYLAND

PURPOSE: SHORE EROSION CONTROL PROJECT

**APPLICATION BY:
U.S. NAVY**

DATE: SEPTEMBER, 2007
REVISED: AUGUST, 2008
SHEET 11 OF 30



COASTLINE DESIGN, P.C.

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(804) 642-2158

ADJACENT PROPERTY OWNERS:

DATUM: MEAN LOW WATER

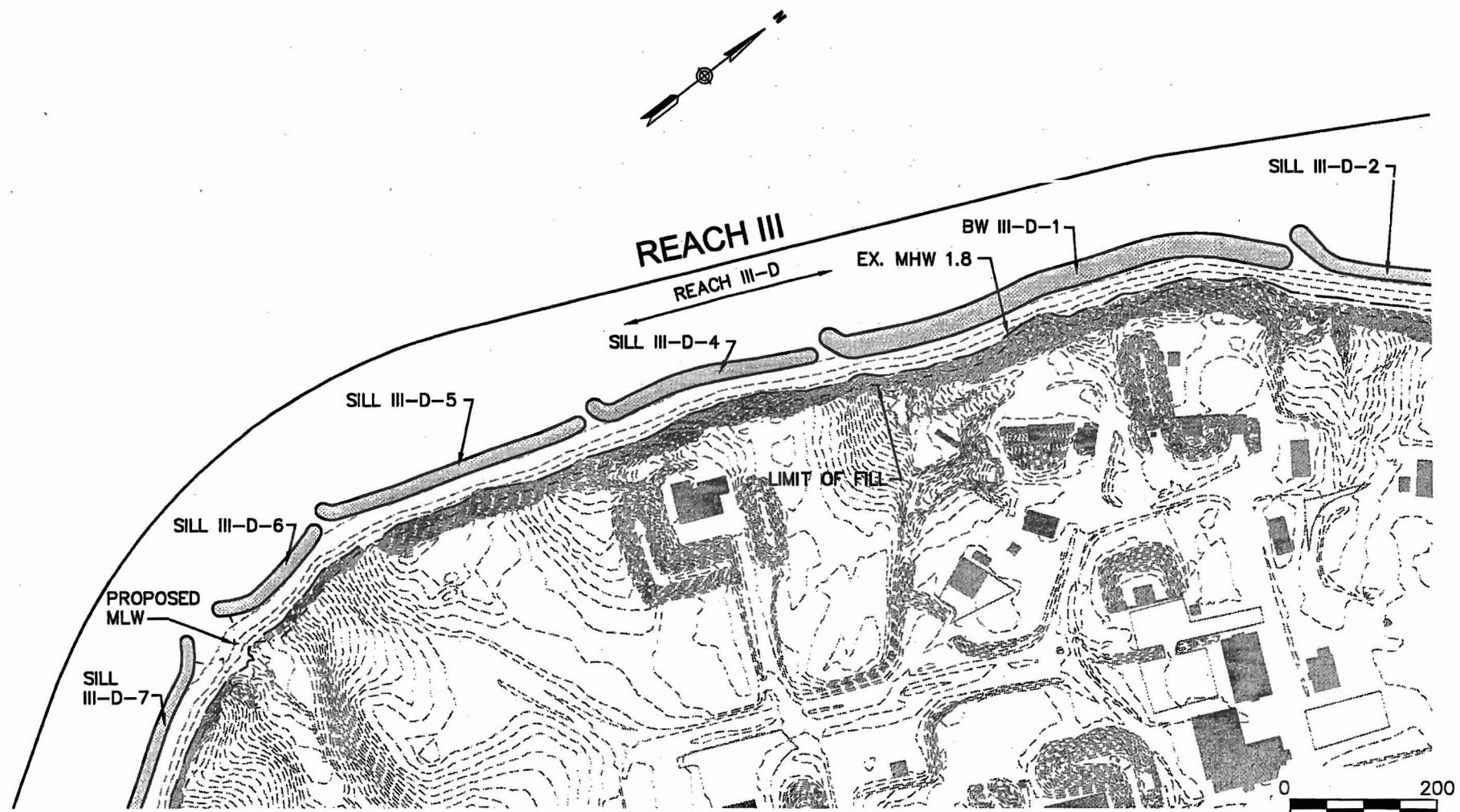
**NAVAL SUPPORT FACILITY, INDIAN HEAD
REACH LAYOUT**

**AT: NAVAL SUPPORT FACILITY
IN: INDIAN HEAD, MARYLAND**

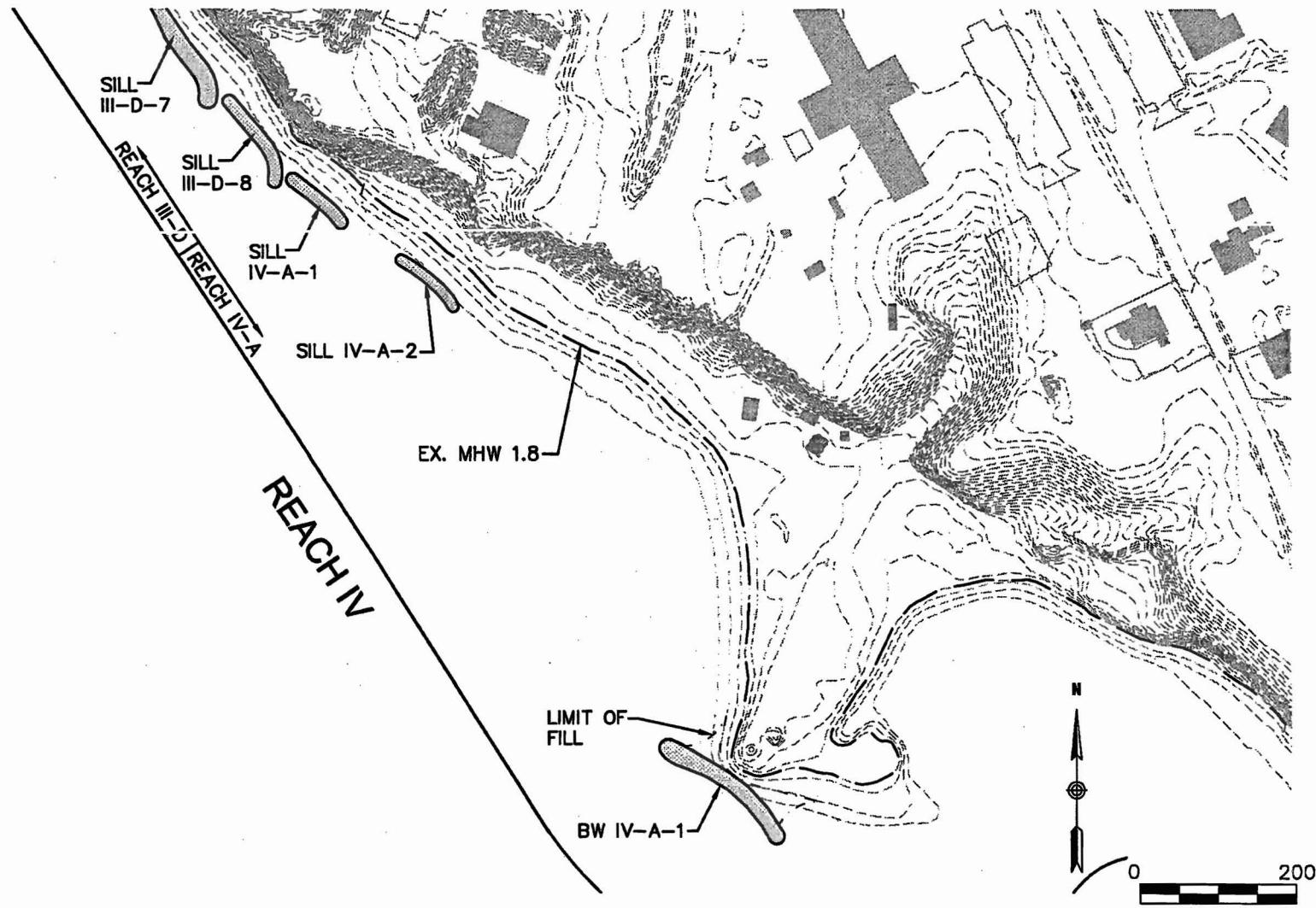
PURPOSE: SHORE EROSION CONTROL PROJECT

**APPLICATION BY:
U.S. NAVY**

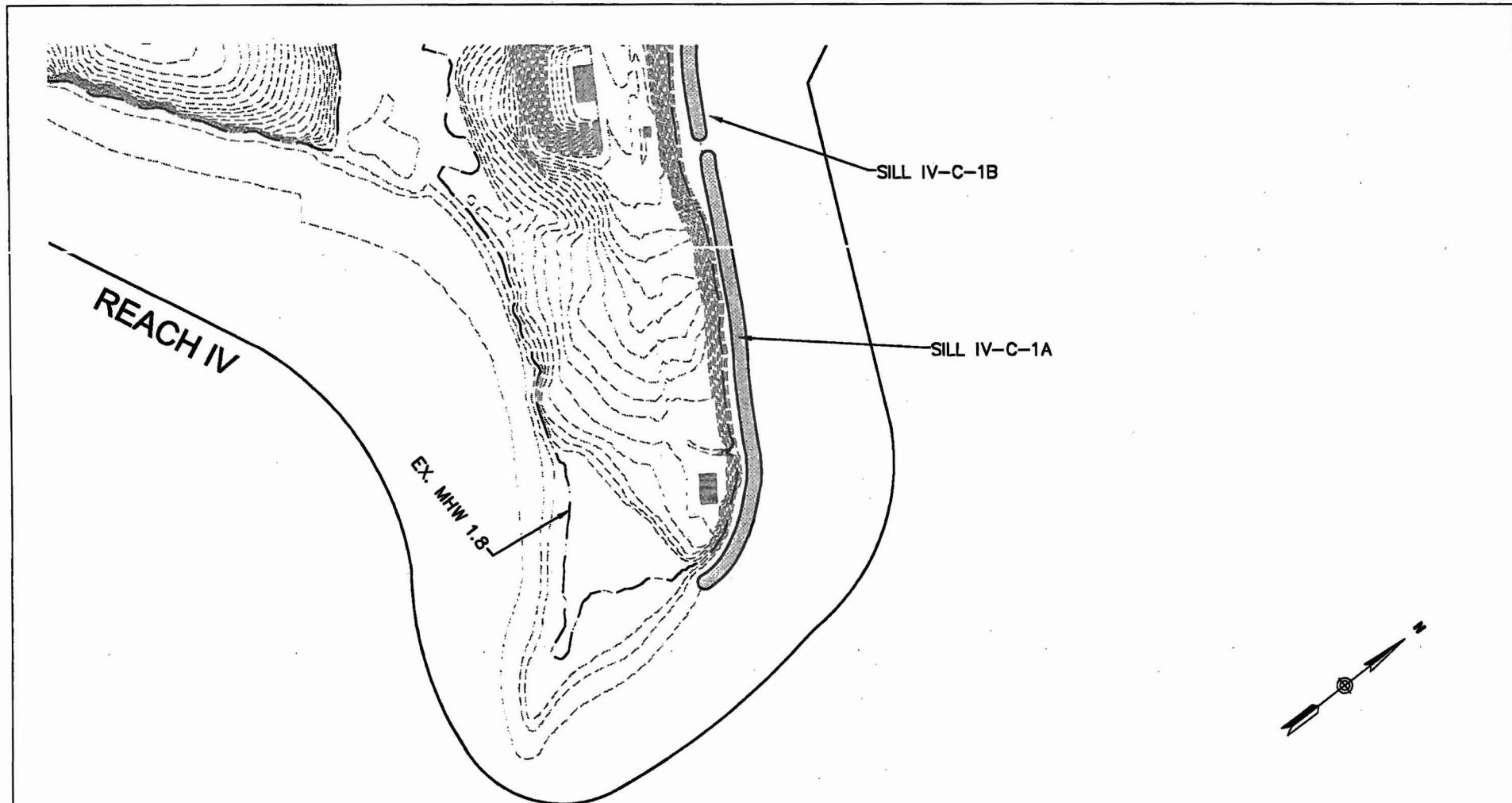
**DATE: SEPTEMBER, 2007
REVISED: AUGUST, 2008
SHEET 12 OF 30**



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P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	DATUM: MEAN LOW WATER	AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
				SHEET 13 OF 30

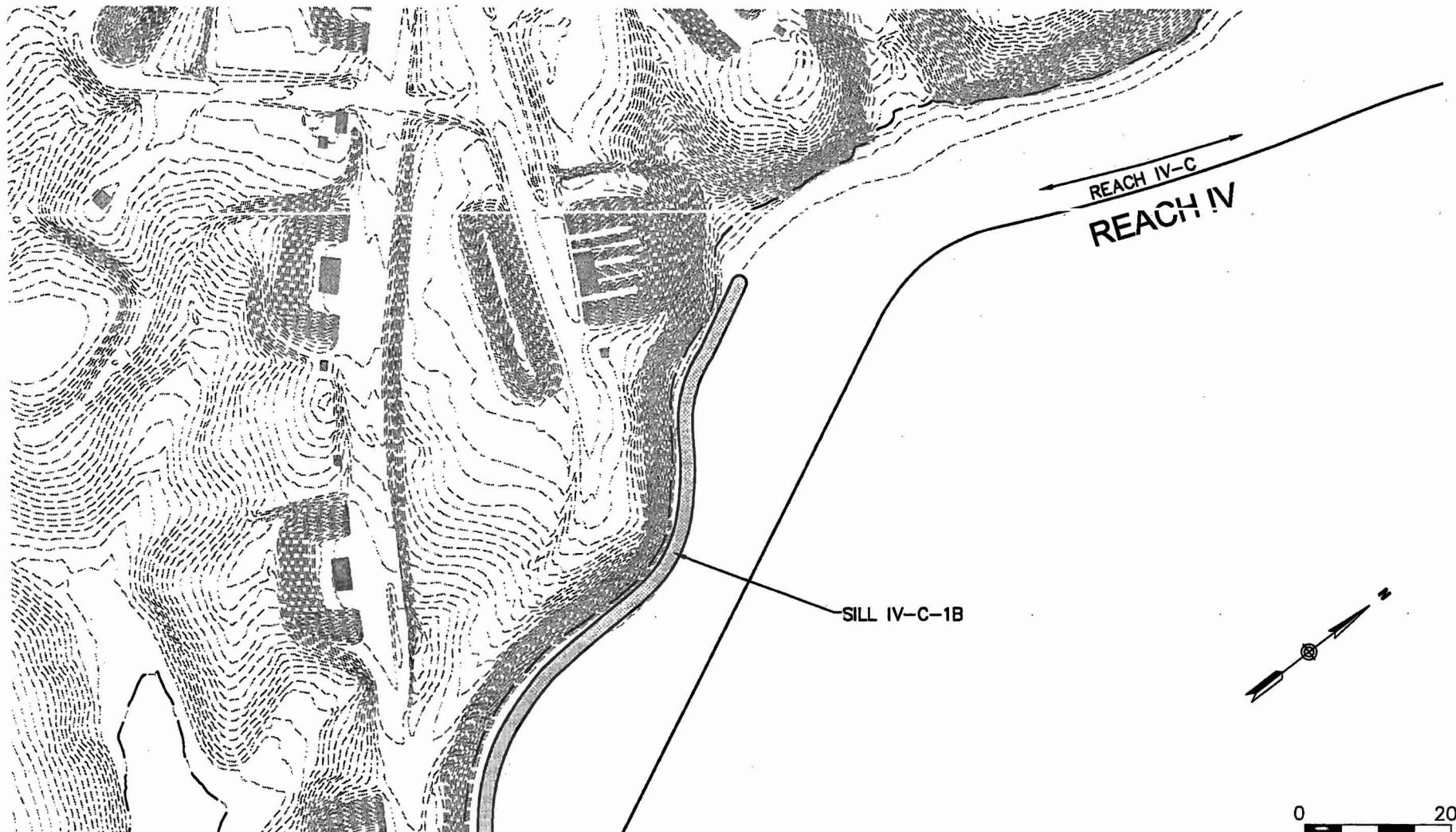


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DATUM: MEAN LOW WATER		PURPOSE: SHORE EROSION CONTROL PROJECT	SHEET 14 OF 30

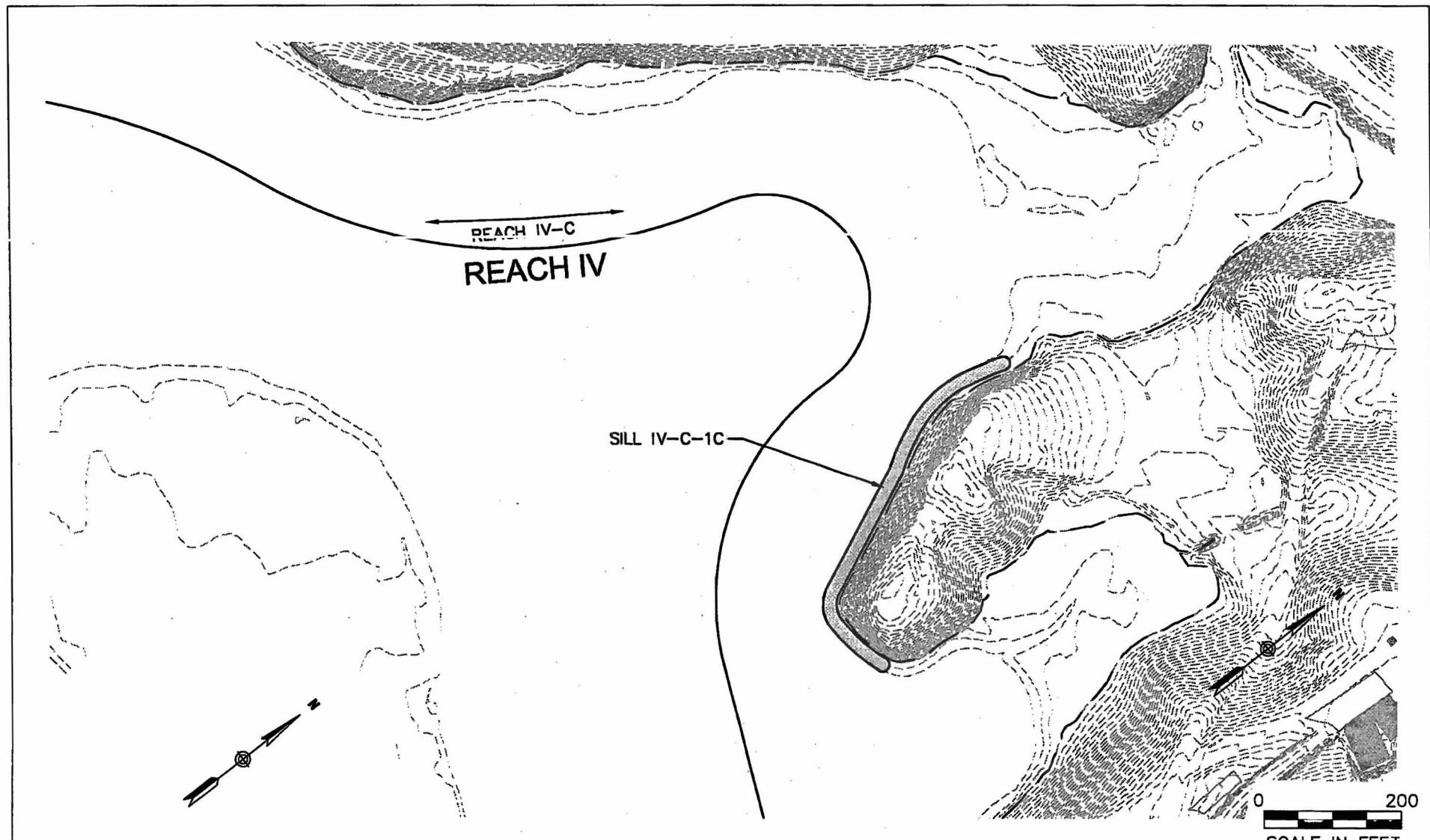


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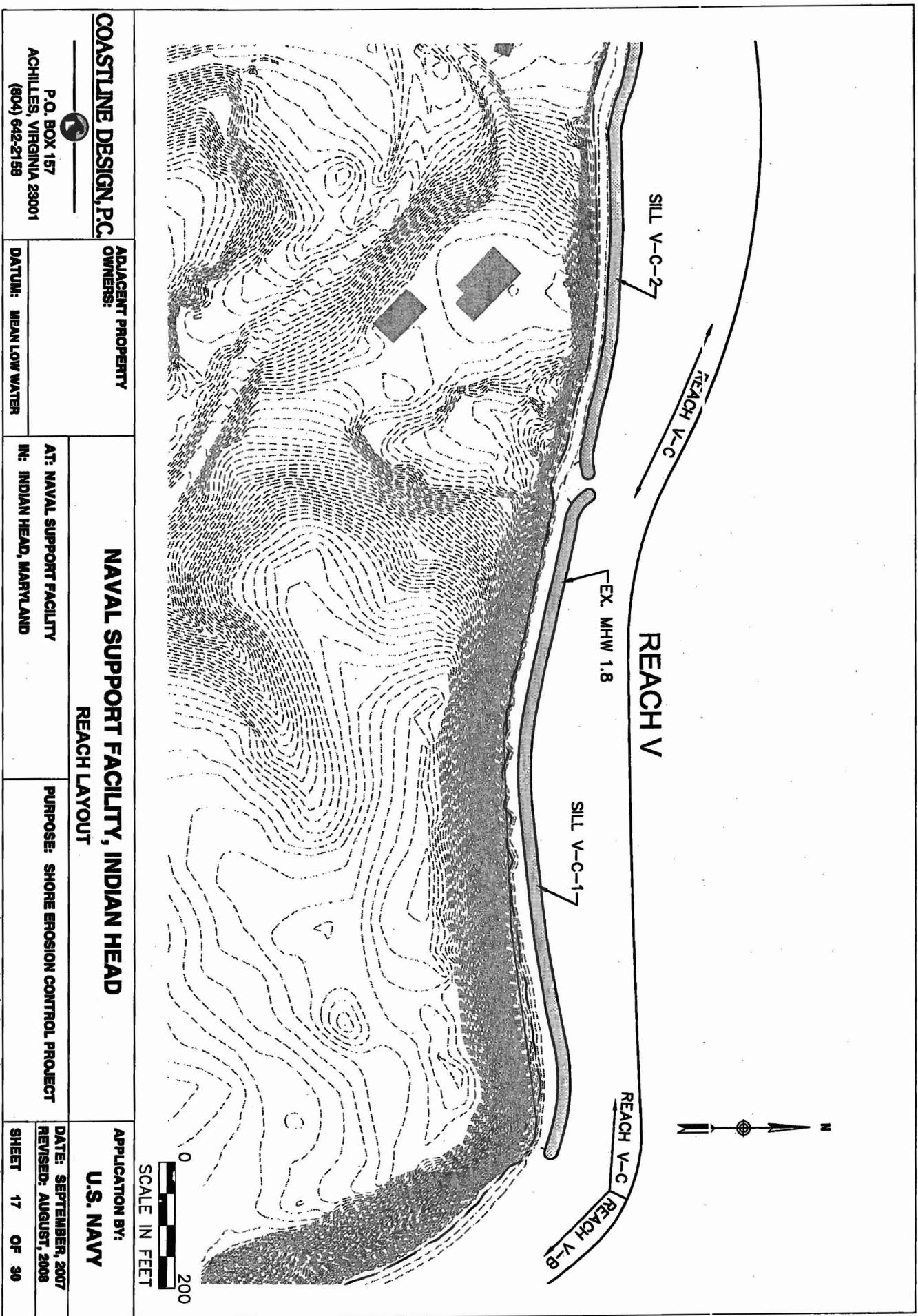
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 P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158				U.S. NAVY
		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND		PURPOSE: SHORE EROSION CONTROL PROJECT DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
	DATUM: MEAN LOW WATER			SHEET 15A OF 30

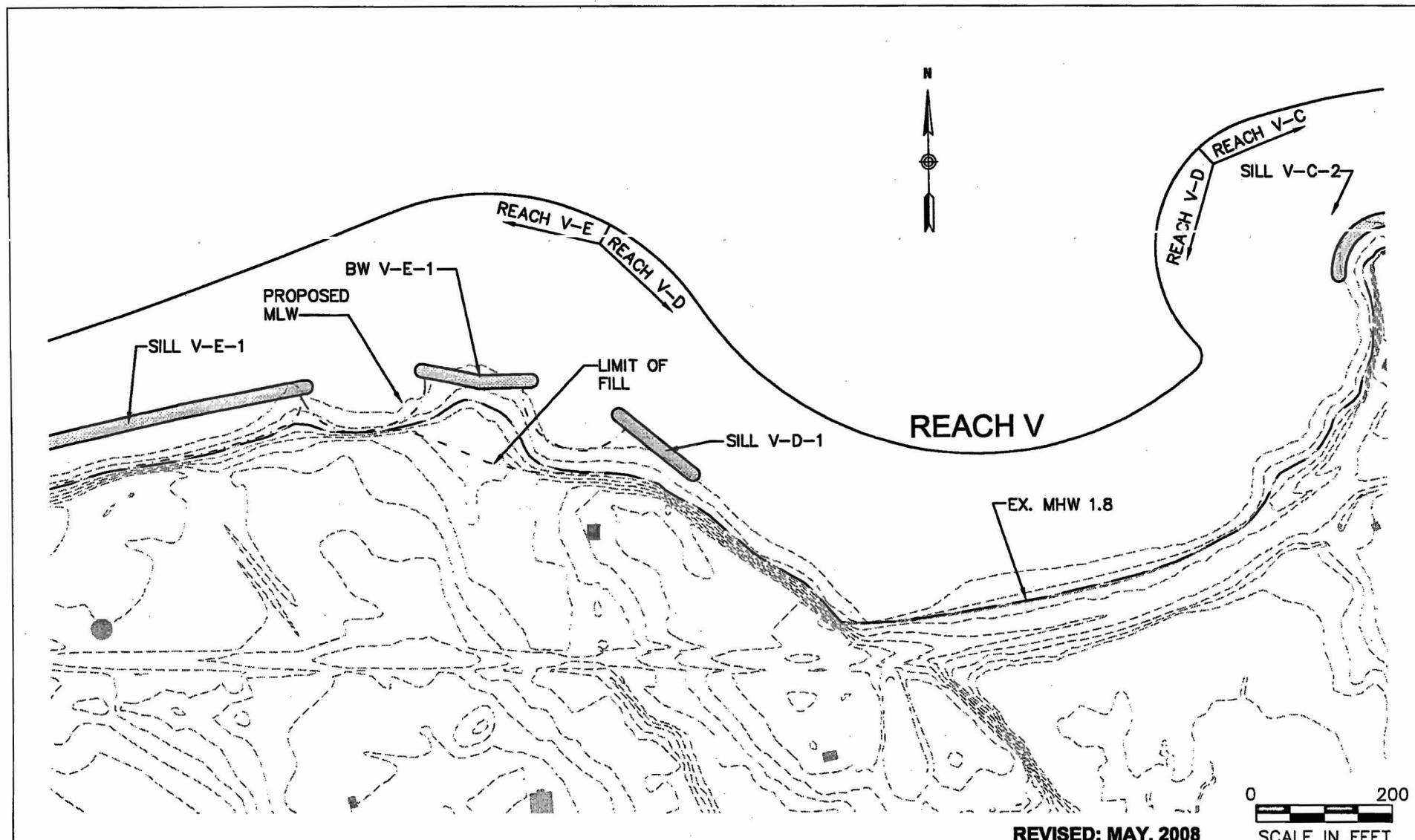


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	DATUM: MEAN LOW WATER	IN: INDIAN HEAD, MARYLAND		SHEET 15B OF 30



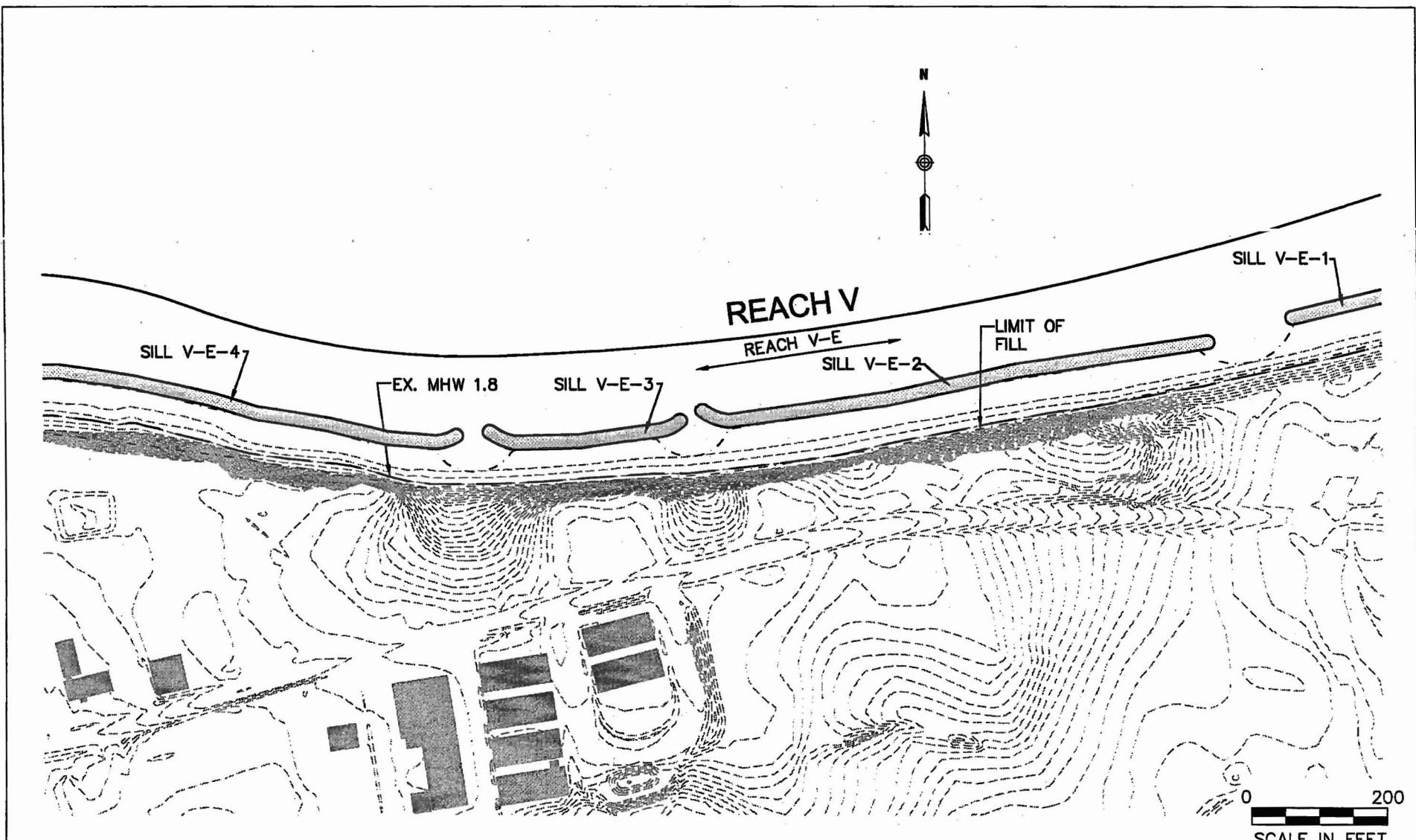
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	DATUM: MEAN LOW WATER			SHEET 16 OF 30



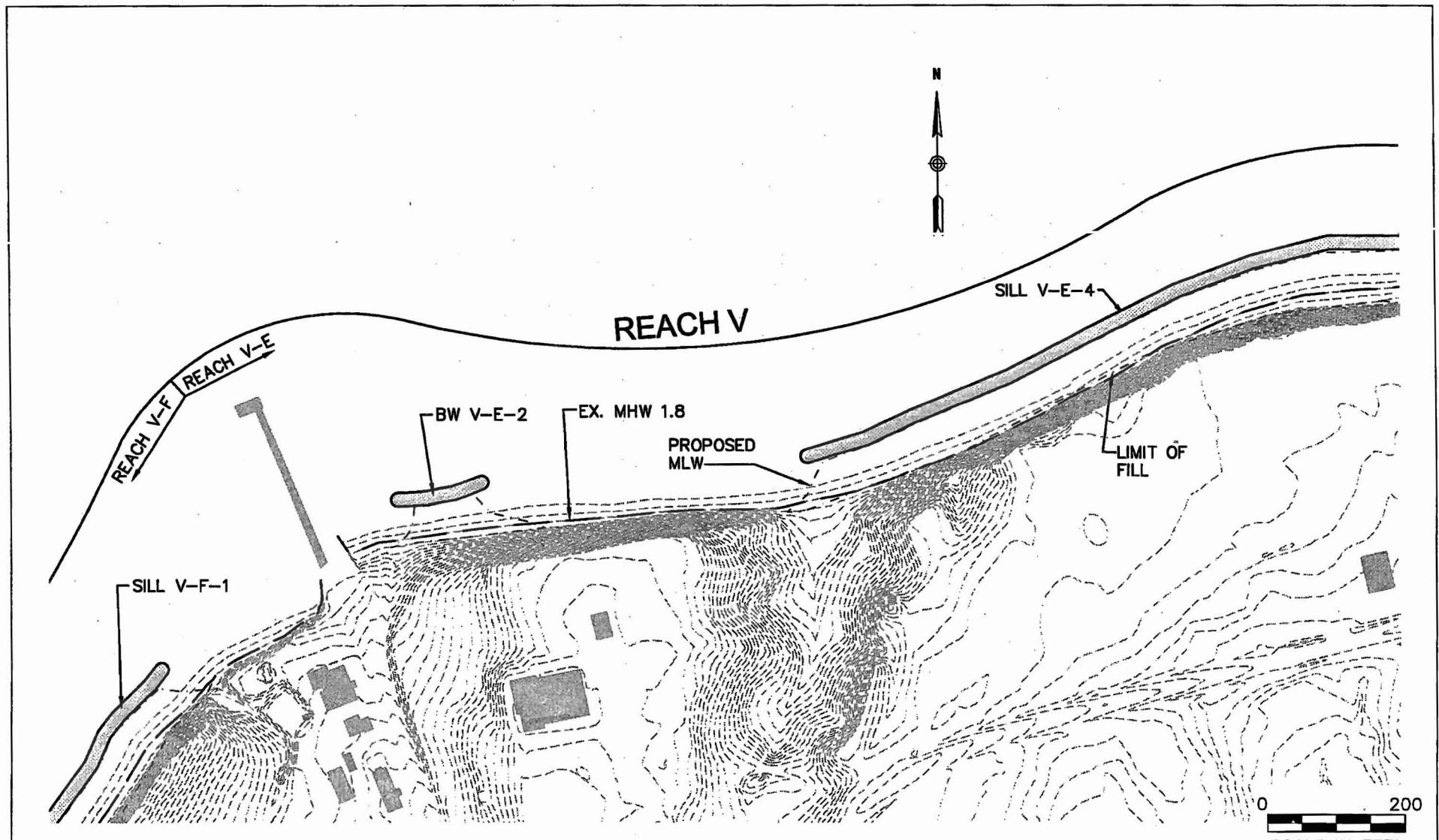


REVISED: MAY, 2008

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P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
DATUM: MEAN LOW WATER		PURPOSE: SHORE EROSION CONTROL PROJECT	SHEET 18 OF 30



COASTLINE DESIGN, P.C.	ADJACENT PROPERTY OWNERS:	NAVAL SUPPORT FACILITY, INDIAN HEAD REACH LAYOUT		APPLICATION BY: U.S. NAVY
P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
	DATUM: MEAN LOW WATER			SHEET 19 OF 30



COASTLINE DESIGN, P.C.

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

ADJACENT PROPERTY OWNERS:

DATUM: MEAN LOW WATER

**NAVAL SUPPORT FACILITY, INDIAN HEAD
REACH LAYOUT**

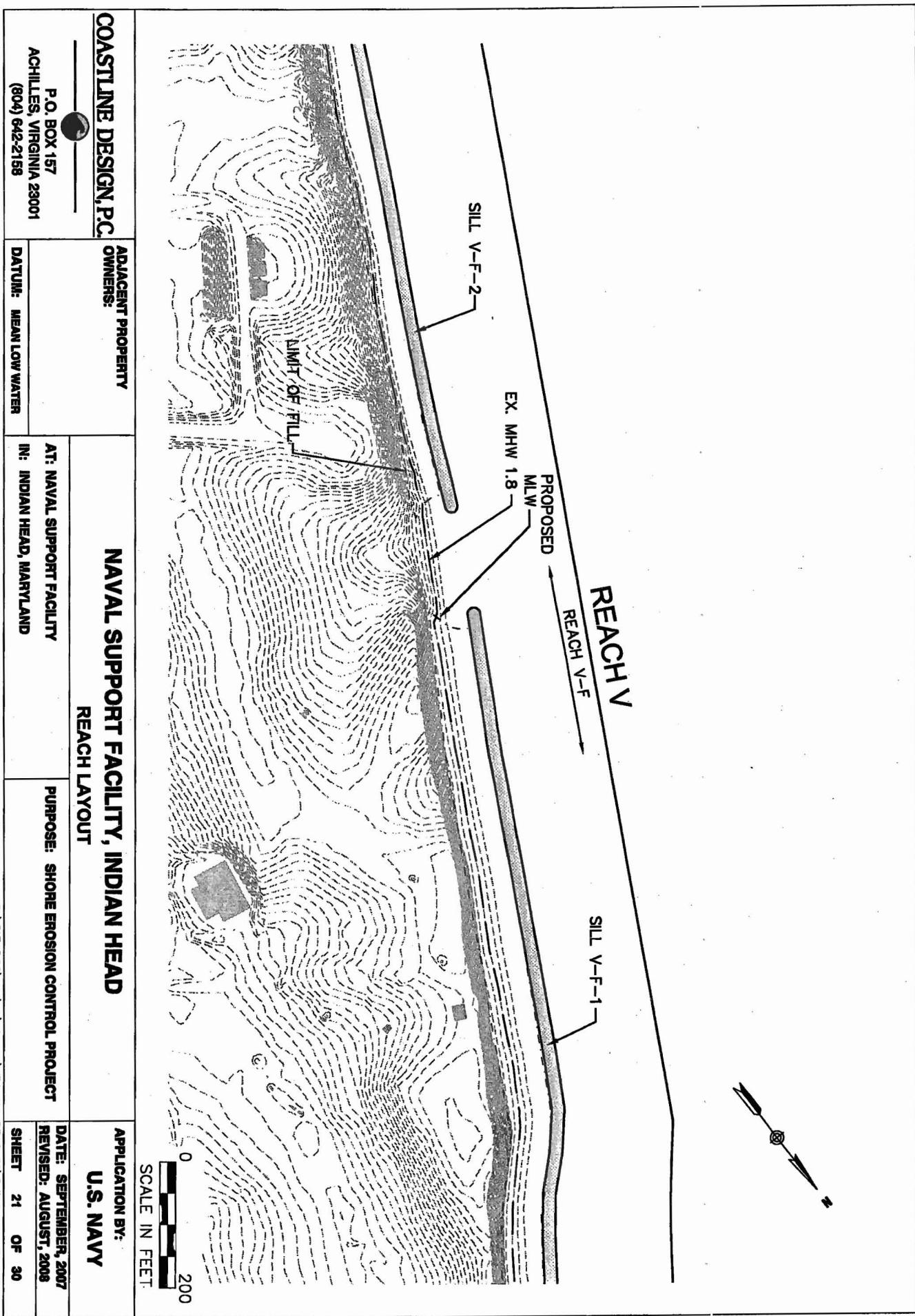
AT: NAVAL SUPPORT FACILITY
IN: INDIAN HEAD, MARYLAND

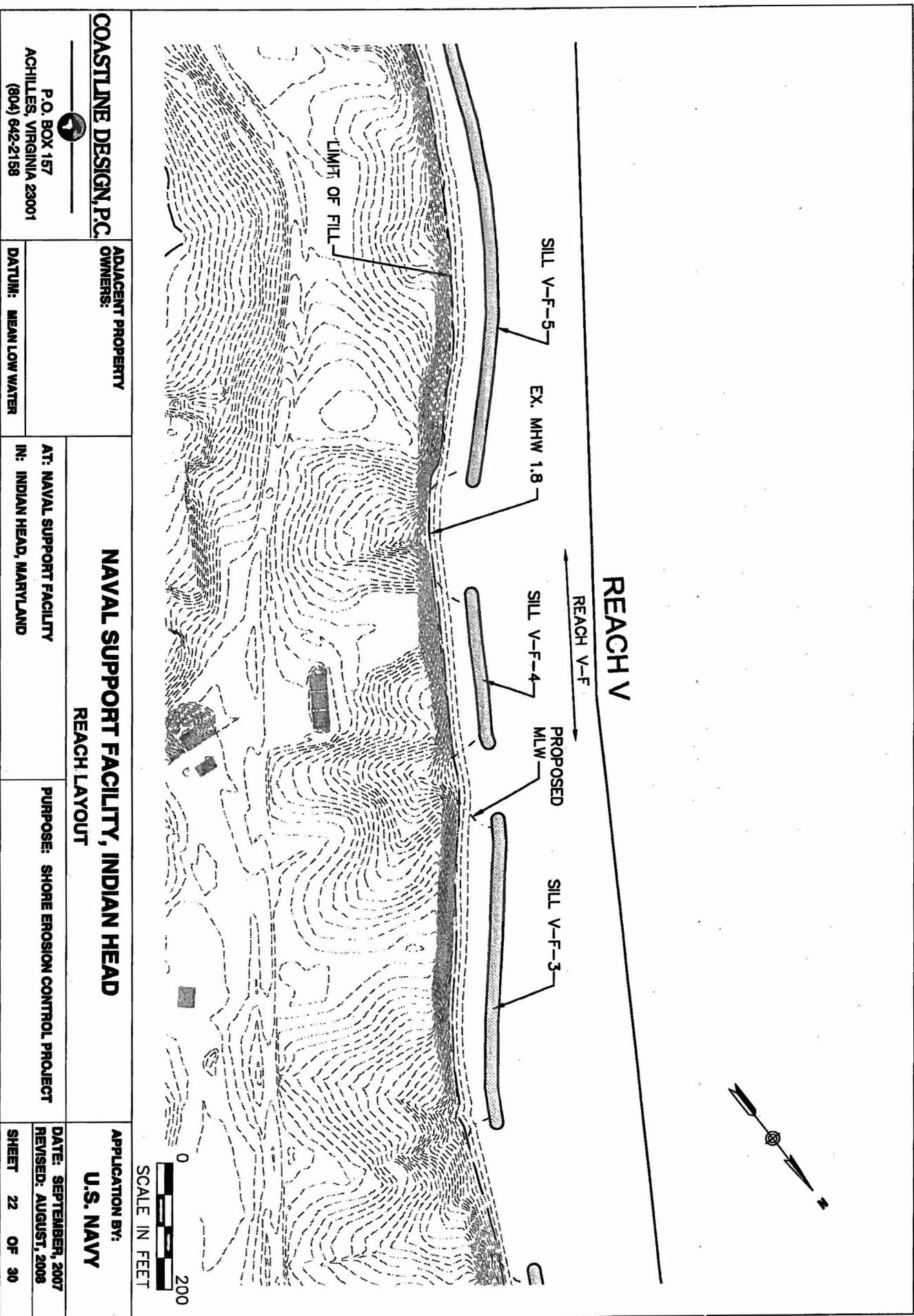
PURPOSE: SHORE EROSION CONTROL PROJECT

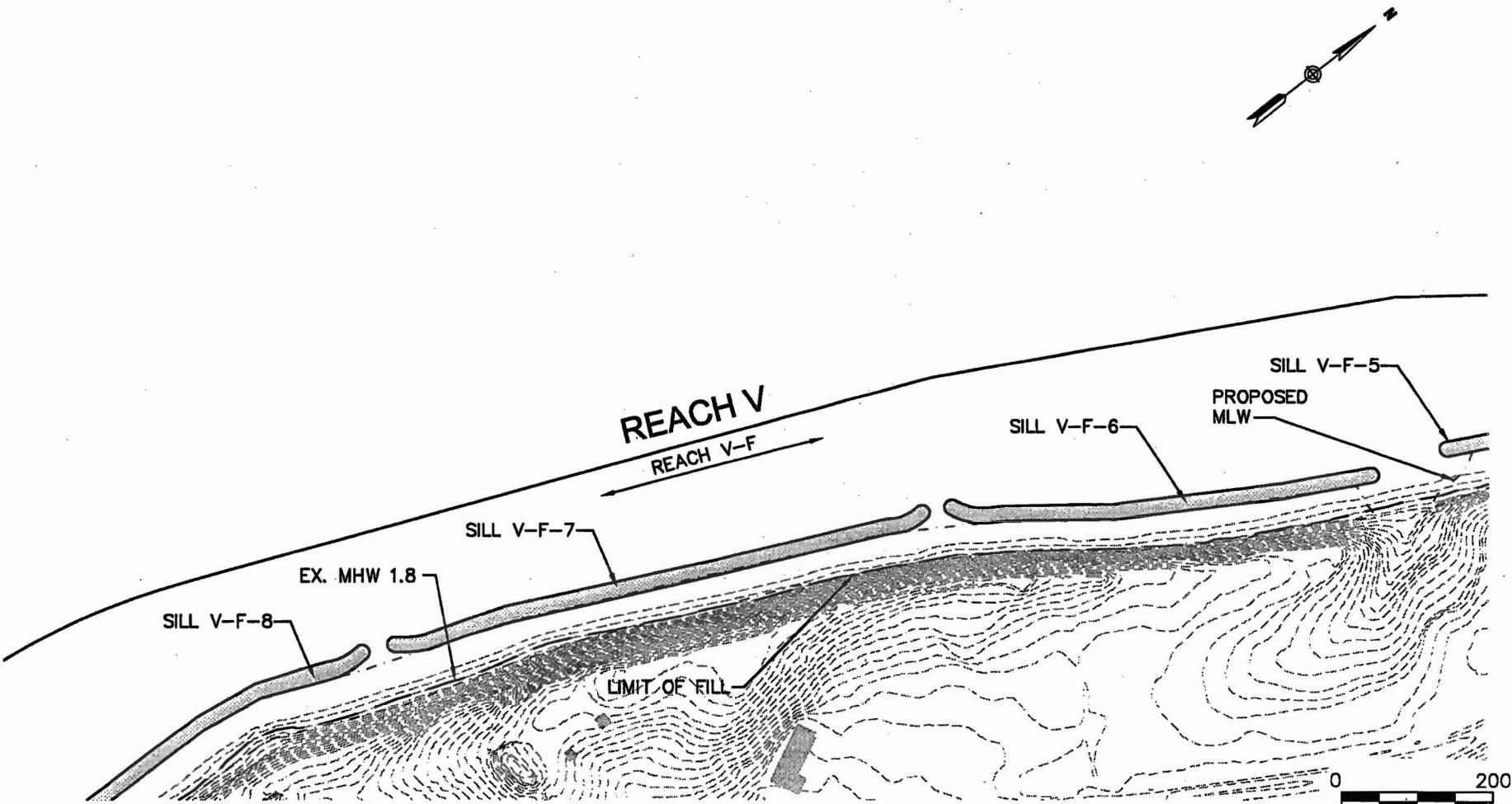
**APPLICATION BY:
U.S. NAVY**

DATE: SEPTEMBER, 2007
REVISED: AUGUST, 2008

SHEET 20 OF 30







COASTLINE DESIGN, P.C.

P.O. BOX 157
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ADJACENT PROPERTY OWNERS:

DATUM: MEAN LOW WATER

**NAVAL SUPPORT FACILITY, INDIAN HEAD
REACH LAYOUT**

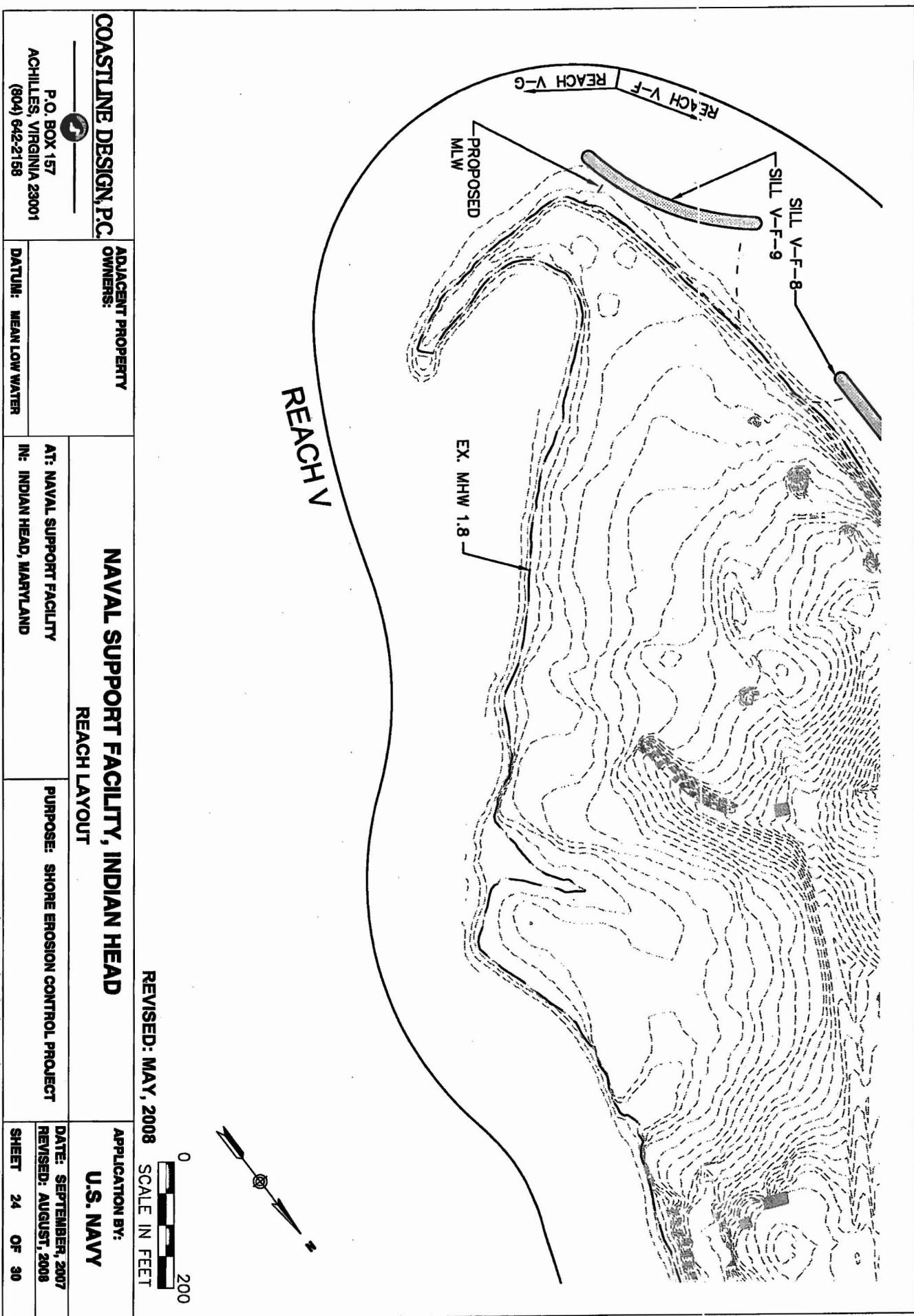
AT: NAVAL SUPPORT FACILITY
IN: INDIAN HEAD, MARYLAND

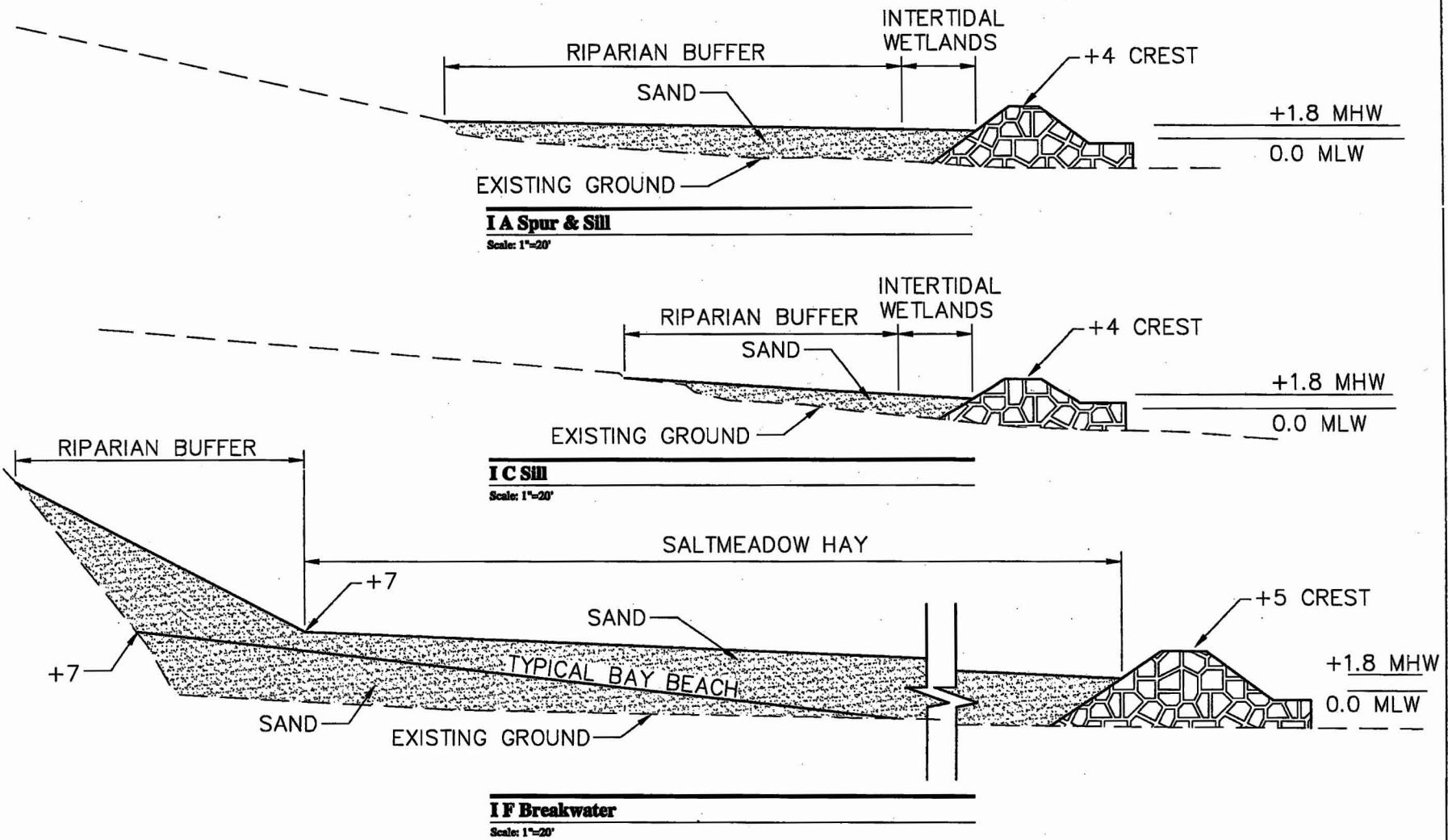
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**APPLICATION BY:
U.S. NAVY**

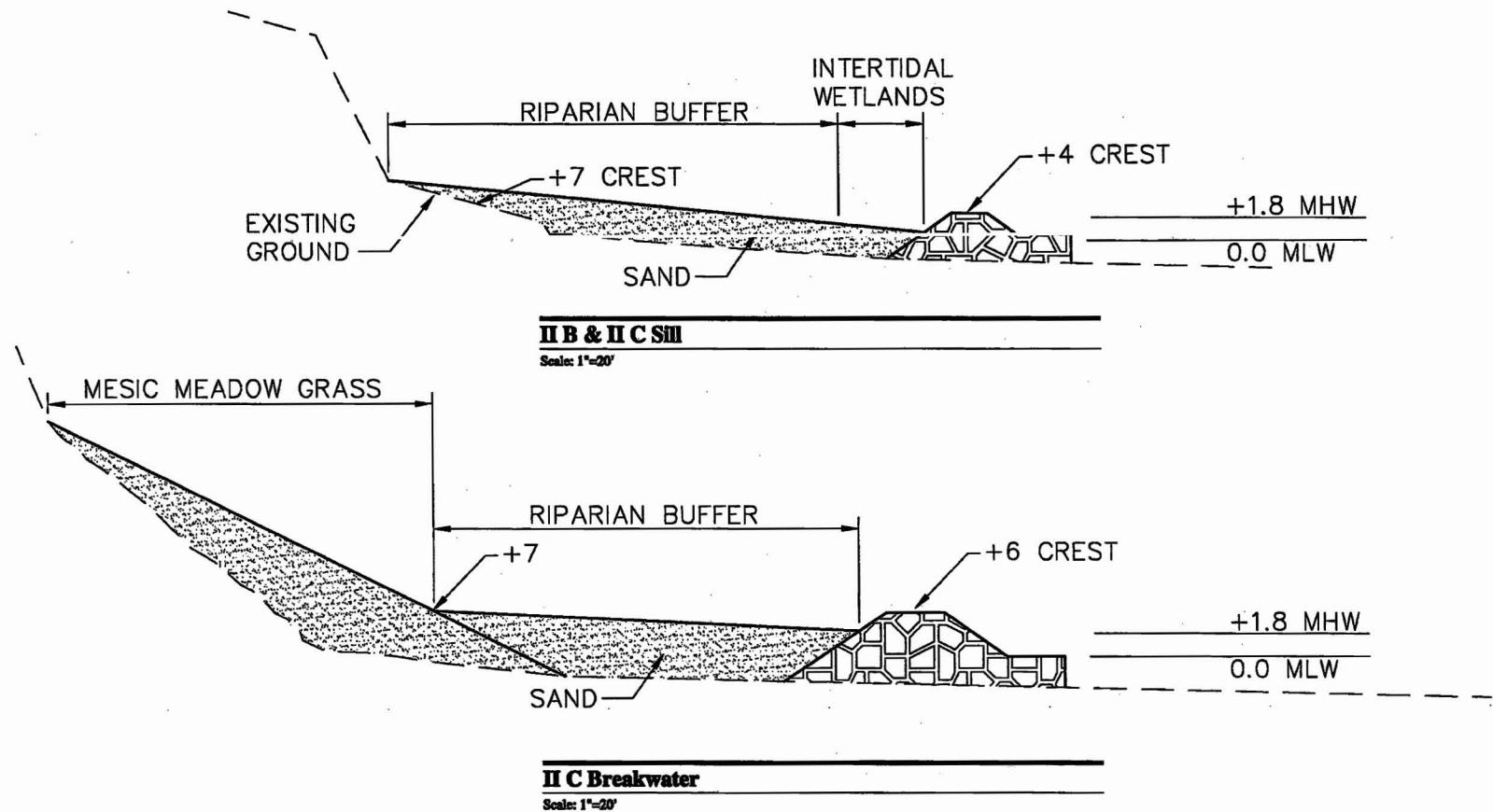
DATE: SEPTEMBER, 2007
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SHEET 23 OF 30

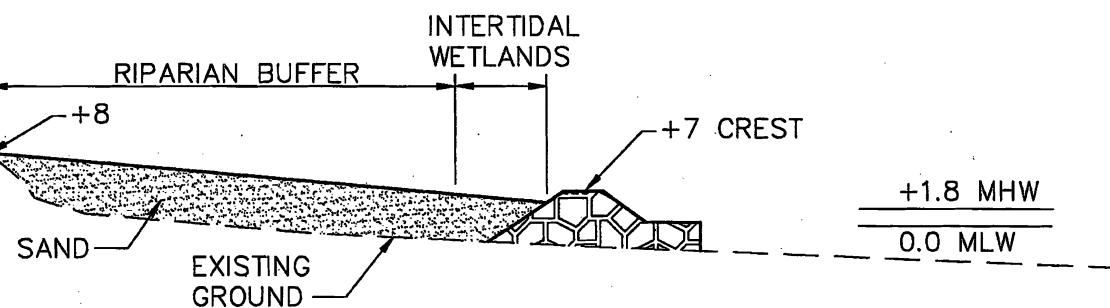
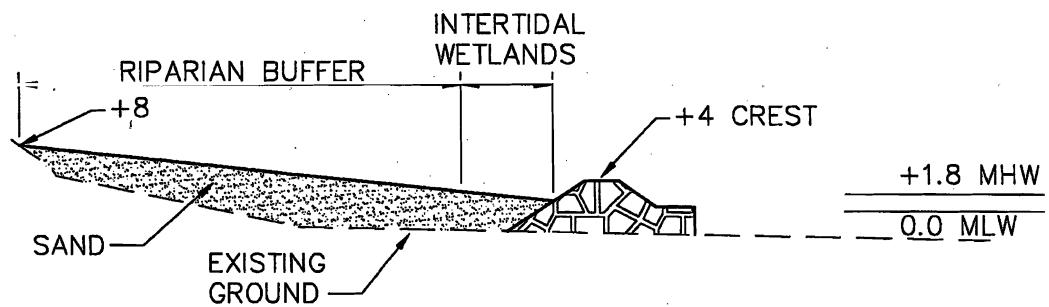




COASTLINE DESIGN, PC.	ADJACENT PROPERTY OWNERS:	NAVAL SUPPORT FACILITY, INDIAN HEAD TYPICAL SECTIONS		APPLICATION BY: U.S. NAVY
		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT	
P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	DATUM: MEAN LOW WATER			DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
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COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: DATUM: MEAN LOW WATER	NAVAL SUPPORT FACILITY, INDIAN HEAD TYPICAL SECTIONS	APPLICATION BY: U.S. NAVY
		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT



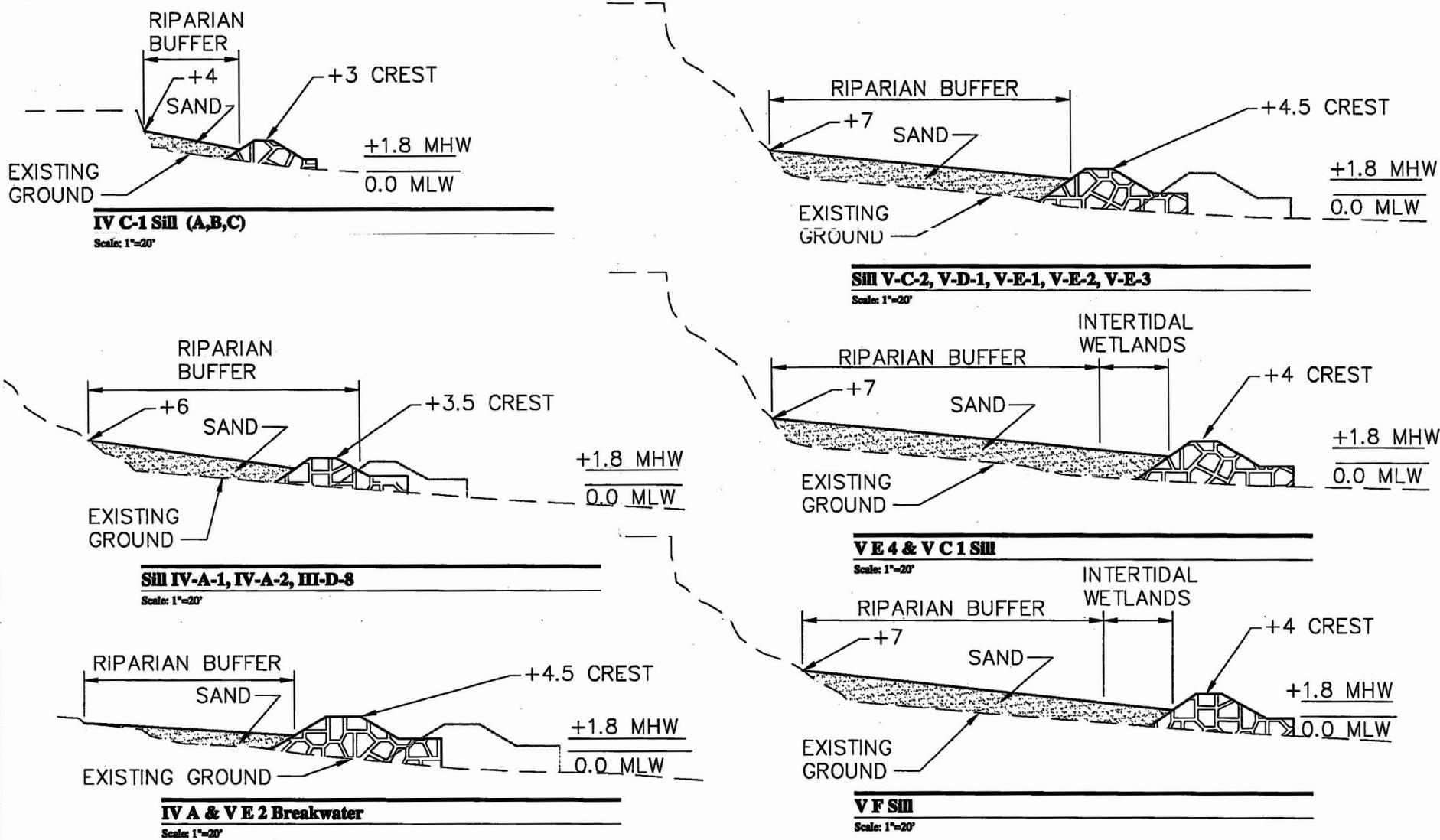
III D Breakwater

Scale: 1"=20'

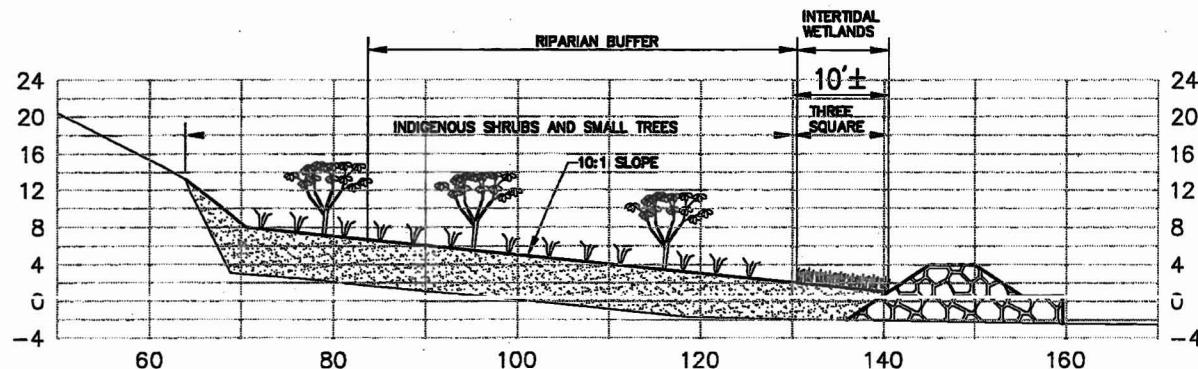
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DATE: SEPTEMBER, 2007
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SHEET 27 OF 30

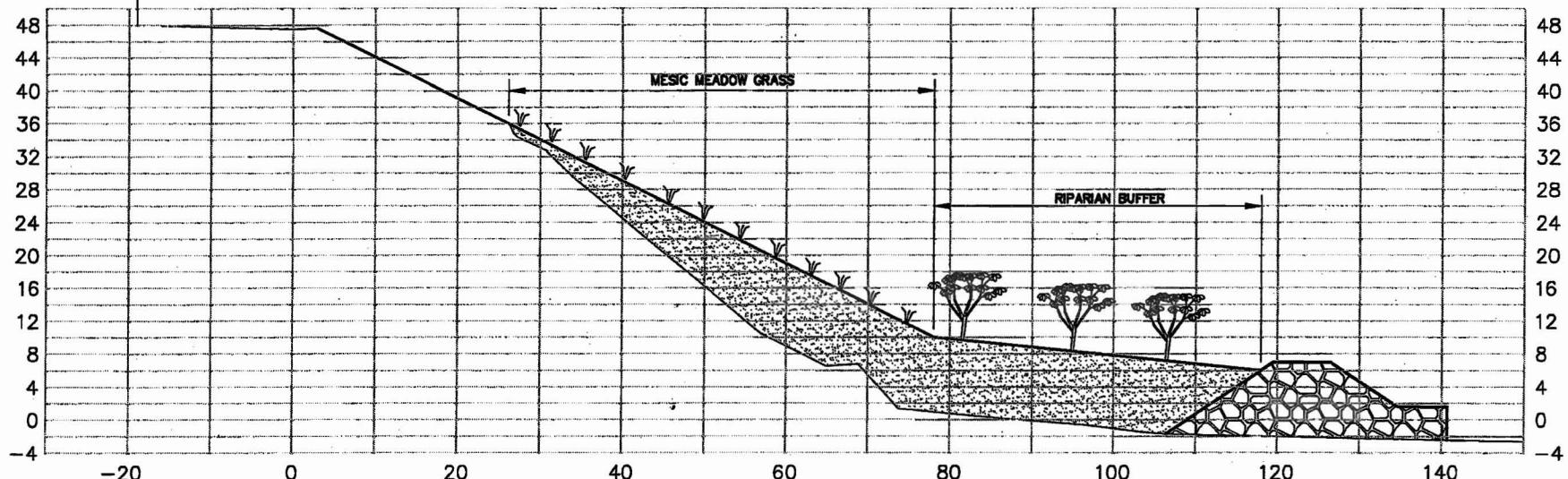


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P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	DATE: SEPTEMBER, 2007 REVISED: AUGUST, 2008
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Typical Section for Reaches I, II, III, & V

Scale: 1"-20'



Typical Breakwater Section for Reaches II & III

Scale: 1"-20'

COASTLINE DESIGN, P.C.  P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158	ADJACENT PROPERTY OWNERS: DATUM: MEAN LOW WATER	NAVAL SUPPORT FACILITY, INDIAN HEAD TYPICAL SECTIONS - VEGETATIVE PLANTINGS	APPLICATION BY: U.S. NAVY
		AT: NAVAL SUPPORT FACILITY IN: INDIAN HEAD, MARYLAND	PURPOSE: SHORE EROSION CONTROL PROJECT

DATE: SEPTEMBER, 2007
REVISED: AUGUST, 2008

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Indian Head Reach I

Structure Type		Length (ft)	Type	Impacted		Maximum Distance from MHW
Type	Number			Volume < MHW (cy)	Area < MHW (sq.ft)	
BW	I-A-1	120	Rock	420	2,400	100
		120	Sand	600	3,600	
Bay	I-A-1	200	Rock			50
			Sand	800	4,000	
BW	I-A-2	120	Rock	420	2,400	90
		120	Sand	600	3,600	
Bay	I-A-2	150	Rock			50
			Sand	600	3,000	
Sill	I-C-1	190	Rock	570	4,180	90
		190	Sand	760	9,500	
Bay	I-C-1	100	Rock			20
			Sand	400	2,000	
Sill	I-C-2	700	Rock	2,100	15,400	90
		700	Sand	2,800	35,000	
Spur	I-C-1	120	Rock	240	2,400	100
		120	Sand	480	600	
Revet	I-D-1	300	Rock	450	4,500	20
Spur	I-E-1	200	Rock	700	4,000	160
		150	Sand	750	3,000	
Bay	I-E-1	340	Rock			150
			Sand	2,040	23,800	
BW	I-F-1	210	Rock	735	4,200	210
		210	Sand	2,205	25,200	
Bay	I-F-1	150	Rock			120
			Sand	900	10,500	
BW	I-F-2	210	Rock	735	4,200	190
		210	Sand	2,205	25,200	
Bay	I-F-2	170	Rock		0	110
			Sand	1,020	11,900	
BW	I-F-3	210	Rock	735	4,200	200
		210	Sand	2,205	25,200	
Bay	I-F-3	170	Rock		0	130
			Sand	1,020	11,900	
Spur	I-F-1	240	Rock	840	4,800	180
		240	Sand	1,680	24,000	
Total			Rock	7,945	52,680	
			Sand	21,065	222,000	

Indian Head Reach II						
Structure		Length (ft)	Type	Impacted		
Type	Number			Volume<MHW (cy)	Area<MHW (sq.ft)	
Sill	II-B-1	1100	Rock	3,300	24,200	
		1100	Sand	4,400	55,000	
Bank BW	II-C-1	350	Rock	1,575	11,200	
		350	Sand	700	12,250	
Sill	II-C-1	450	Rock	1,350	9,900	
		450	Sand	1,800	22,500	
Bank BW	II-C-2	400	Rock	1,800	12,800	
		400	Sand	800	14,000	
Sill	II-C-2	700	Rock	2,100	15,400	
		700	Sand	2,800	35,000	
Sill	II-D-1	200	Rock	600	4,400	
		200	Sand	800	10,000	
Bay	II-D-1		Rock			
		150	Sand	600	7,500	
Sill	II-D-2	210	Rock	630	4,620	
		210	Sand	840	10,500	
Sill	II-D-3	600	Rock	1,800	13,200	
		600	Sand	2,400	30,000	
Total			Rock	13,155	95,720	
			Sand	15,140	196,750	

Indian Head Reach III

Structure		Length (ft)	Type	Impacted		Maximum Distance from MHW	
Type	Number			Volume<MHW (cy)	Area<MHW (sq.ft)		
Sill	III-C-2	500	Rock	1,500	11,000	80	
		500	Sand	2,000	25,000	65	
Sill	III-C-3	250	Rock	750	5,500	80	
		250	Sand	1,000	12,500	65	
Revet	III-D-1	350	Rock	525	5,250	20	
		350	Sand				
with spur	III-D-1	170	Rock	510	3,740	80	
		170	Sand	680	8,500	65	
	III-D-1	150	Rock	525	3,000		
		150	Sand	1,575	15,000	50	
Bay	III-D-1	330	Rock			80	
		330	Sand	1,320	6,600	65	
with spur	III-D-2	450	Rock	1,350	9,900	90	
		450	Sand	1,800	22,500	75	
	III-D-2	100	Rock	350	2,000	80	
		100	Sand	1,050	10,000	65	
(Bank BW)	III-D-3	600	Rock	2,700	19,200	60	
		600	Sand	1,200	21,000	35	
Sill	III-D-4	300	Rock	900	6,600	60	
		300	Sand	1,200	15,000	35	
Sill	III-D-5	360	Rock	720	7,200	60	
		360	Sand	1,260	12,600	35	
Sill	III-D-6	190	Rock	380	3,800	60	
		190	Sand	665	6,650	35	
Sill	III-D-7	380	Rock	760	7,600	60	
		380	Sand	1,330	13,300	35	
Sill	III-D-8	130	Rock	260	2,600	60	
		130	Sand	560	4,550	35	
Total			Rock	11,230	87,390		
			Sand	15,640	173,200		

Indian Head Reach IV

Structure Type		Length (ft)	Type	Impacted		Maximum Distance from MHW	
	Number			Volume < MHW (cy)	Area < MHW (sq.ft)		
Sill	IV-A-1	90	Rock	180	1,800	60	
		90	Sand	315	3,150	35	
Sill	IV-A-2	100	Rock	150	2,000	20	
		100	Sand				
BW	IV-A-1	190	Rock	665	3,800	100	
		190	Sand	950	5,700	60	
Sill	IV-C-1A	540	Rock	270	6,480	18	
		540	Sand	108	2,700	8	
Sill*	IV-C-1B	1000	Rock	500	12,000	18	
		1000	Sand	200	5,000	8	
Sill	IV-C-1C	630	Rock	315	7,560	18	
		630	Sand	126	3,150	8	
Total			Rock	2,080	33,640		
			Sand	1,699	19,700		

*Revised February 2008

Indian Head Reach V							
Structure Type		Length (ft)	Type	Impacted		Maximum Distance from MHW	
Type	Number			Volume < MHW (cy)	Area < MHW (sq.ft)		
Sill*	V-C-1	1,040	Rock	3,120	22,880	80	
		1,040	Sand	4,160	52,000	65	
Sill* [^]	V-C-2	810	Rock	2,430	17,820	65	
		810	Sand	2,673	28,350	50	
Sill+ [^]	V-D-1	150	Rock	450	3,300	65	
		150	Sand	495	5,250	50	
BW* [^]	V-E-1	170	Rock	595	3,400	90	
		170	Sand	680	3,400	75	
Sill [^]	V-E-1	600	Rock	1,800	13,200	65	
		600	Sand	1,980	21,000	50	
Sill* [^]	V-E-2	720	Rock	2,160	15,840	65	
		720	Sand	2,376	25,200	50	
Sill* [^]	V-E-3	280	Rock	840	6,160	65	
		280	Sand	924	9,800	50	
Sill* [^]	V-E-4	1,450	Rock	4,350	31,900	80	
		1,450	Sand	5,800	72,500	65	
BW	V-E-2	140	Rock	490	2,800	90	
		140	Sand	1,470	16,800	75	
Sill	V-F-1	1,250	Rock	3,750	27,500	80	
		1,250	Sand	5,000	62,500	65	
Sill	V-F-2	700	Rock	2,100	15,400	80	
		700	Sand	2,800	35,000	65	
Sill	V-F-3	450	Rock	1,350	9,900	80	
		450	Sand	1,800	22,500	65	
Sill	V-F-4	240	Rock	720	5,280	80	
		240	Sand	960	12,000	65	
Sill	V-F-5	700	Rock	2,100	15,400	80	
		700	Sand	2,800	35,000	65	
Sill*	V-F-6	550	Rock	1,650	12,100	80	
		550	Sand	2,200	27,500	65	
Sill*	V-F-7	700	Rock	2,100	15,400	80	
		700	Sand	2,800	35,000	65	
Sill*	V-F-8	520	Rock	1,560	11,440	80	
		520	Sand	2,080	26,000	65	
Sill	V-F-9	300	Rock	900	6,600	100	
		300	Sand	1,200	15,000	80	
Total			Rock	32,465	236,320		
			Sand	42,198	504,800		

*Revised February 2008

+Revised March 2008

[^]Revised June 2008

Reach	Length (ft)					Rock		Sand	
	Sills	BW	Spur	Revetment	Bay	Volume<MHW (cy)	Area<MHW (sq.ft)	Volume<MHW (cy)	Area<MHW (sq.ft)
I	890	870	560	300	1,280	7,945	52,680	21,065	222,000
II	3,260	750	0	0	150	13,155	95,720	15,140	196,750
III	3,330	600	250	350	330	11,230	87,390	15,640	173,200
IV	2,360	190	0	0	0	2,080	33,640	1,699	19,700
V	10,760	310	0	0	0	33,365	242,920	47,390	590,800
Total	20,600	2,720	810	650	1,760	67,775	512,350	100,934	1,202,450