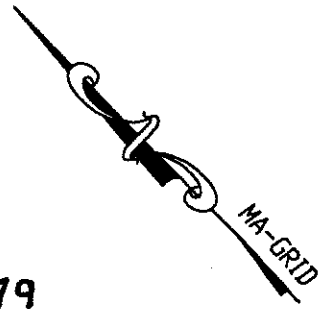


PLAN

SCALE: 1" = 2500'



PERMIT NO. 12379

Approved by Department of Environmental Protection

Date: **MAR 06 2009**

- 1 OF 10 LOCUS
- 2 OF 10 COORDINATE TABLE
- 3 OF 10 HERRING RIVER AND AREA BEACHES
- 4 OF 10 HERRING RIVER CHANNEL DETAIL
- 5 OF 10 ALLEN HARBOR AND AREA BEACHES
- 6 OF 10 ALLEN HARBOR CHANNEL DETAIL
- 7 OF 10 WYCHMERE HARBOR,
SAQUATUCKET HARBOR AND AREA BEACHES
- 8 OF 10 WYCHMERE HARBOR AND
SAQUATUCKET HARBOR CHANNEL DETAILS
- 9 OF 10 RED RIVER BEACH
- 10 OF 10 ADDITIONAL SECTIONS AND PROFILES

REV. 10-22-08
REV. 06-23-08
REV. 04-03-08

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**PROPOSED DREDGING
AND
NOURISHMENT PLAN**
PROJECT HARWICH, MA

SHEET NO.
1 OF 10

PROJECT NO.
C16678.01
SCALE
AS NOTED
DATE
-08/29/07

BEACH COORDINATES				CHANNEL COORDINATES				SAMPLE LOCATIONS						
NORTH	EAST	BEACH LETTER	TYPE	L (FT)	HT. (FT)	AVE W. (FT)	AREA (SQ.FT)	VOL CU YDS	NORTHING	EASTING	S #	NORTHING	EASTING	
2702510.99	1033955.73	"A"	PRIVATE	480	3	40	19,200	2,133	HERRING RIVER			1	2707219.00	1054115.00
2702344.08	1034427.46	"A"	PRIVATE						2701662.24	1034542.87	2	2707114.00	1053851.50	
2703077.14	1034627.18	"B"	PRIVATE	2,280	3	50	114,000	12,667	2702609.83	1034520.50	3	2706374.50	1051974.00	
2704012.80	1036725.49	"B"	PRIVATE						2703242.02	1034605.58	4	2706041.50	1048666.00	
2704012.80	1036725.49	"B"	PUBLIC	450	3	40	18,000	2,000	2703495.91	1034621.66	5	2705578.00	1046554.00	
2704092.97	1037175.99	"C"	PRIVATE	920	3	40	36,800	4,089	2703497.06	1034578.92	6	2705771.50	1045476.00	
2704092.97	1037175.99	"C"	PRIVATE						2703293.27	1034569.39	7	2705394.00	1042375.50	
2704306.02	1038062.02	"C"	PUBLIC	60	3	40	2,400	267	2701944.64	1034388.47	8	2704986.00	1040257.00	
2704306.02	1038062.02	"C"	PUBLIC						2701810.77	1034479.06	9	2704717.00	1039566.00	
2704314.06	1038120.61	"D"	PRIVATE	830	3	45	37,350	4,150	2701662.24	1034542.87	10	2704598.00	1038857.00	
2704314.06	1038120.61	"D"	PRIVATE						ALLEN HARBOR			11	2704335.50	1038076.50
2704526.91	1038920.38	"D"	PUBLIC	60	3	45	2,700	300	2702592.00	1043021.00	12	2704164.00	1037054.50	
2704526.91	1038920.38	"D"	PUBLIC						2702649.00	1043101.00	13	2703481.50	1036215.00	
2704543.89	1038982.30	"E"	PRIVATE	630	3	40	25,200	2,800	2704646.00	1041727.00	14	2703464.50	1035401.00	
2704543.89	1038982.30	"E"	PRIVATE						2705023.00	1041662.00	15	2703113.00	1034567.50	
2704703.21	1039589.87	"E"	PUBLIC	230	3	40	9,200	1,022	2705466.64	1041704.69	16	2702655.50	1034508.00	
2704703.21	1039589.87	"E"	PUBLIC						2705480.46	1041655.80	1c	2704478.11	1049483.47	
2704805.51	1041551.31	"F"	PRIVATE	1,700	3	80	136,000	15,111	2704673.00	1041585.00	2c	2703584.57	1049652.23	
2704805.51	1041551.31	"F"	PRIVATE						2702592.00	1043021.00	3c	2706144.79	1049184.33	
2705328.01	1042272.33	"G"	PRIVATE	570	3	50	28,500	3,167	WYCHMERE HARBOR			1b	2706330.82	1050060.33
2705328.01	1042272.33	"G"	PRIVATE						2704781.50	1049390.49	2b	2706347.35	1050205.92	
2705431.25	1042272.33	"G"	PRIVATE	1,750	3	50	87,500	9,722	2704785.57	1049119.41	3b	2706400.57	1051525.36	
2705431.25	1042272.33	"G"	PRIVATE						2704678.74	1048562.74	4b	2706420.09	1051728.01	
2705690.34	1044010.51	"H"	PRIVATE	4,130	3	50	206,500	22,944	2705008.66	1048367.24	181	2704749.80	1041629.52	
2705690.34	1044010.51	"H"	PRIVATE						2705789.88	1048210.18	182	2705084.06	1041645.03	
2705139.01	1048110.59	"I"	PRIVATE	790	3	40	31,600	3,511	2706214.37	1048041.23	183	2705443.14	1041680.14	
2705139.01	1048110.59	"I"	PRIVATE						2706232.14	1048087.96	420	2705108.50	1048439.00	
2706877.28	1048312.59	"J"	PRIVATE	2,020	3	40	80,800	8,978	2705787.64	1048256.92	421	2704761.00	1048652.50	
2706877.28	1048312.59	"J"	PRIVATE						2705500.80	1048600.26	422	2704121.62	1042035.43	
2706120.32	1049087.68	"K"	PRIVATE	1,040	3	45	46,800	5,200	2704943.73	1048808.38	423	2702928.22	1042851.04	
2706120.32	1049087.68	"K"	PRIVATE						2704930.29	1049363.56	H1	2703494.27	1034623.65	
2706094.09	1049332.17	"K"	PRIVATE	680	3	45	30,600	3,400	2704781.50	1049390.49	H2	2703463.24	1034583.35	
2706252.04	1051320.14	"K"	PRIVATE						SACUJACKET HARBOR					
2706252.04	1051320.14	"K"	PRIVATE						2704781.50	1049390.49				
2706466.10	1052322.60	"L"	PRIVATE	270	3	40	10,800	1,200	2702989.72	1049714.82				
2706466.10	1052322.60	"L"	PRIVATE						2705182.80	1049136.94				
2706466.10	1052986.59	"M"	PRIVATE	2,620	3	50	131,000	14,556	2706627.47	1049320.26				
2706466.10	1052986.59	"M"	PRIVATE						2706590.69	1049386.22				
2706707.08	1053215.71	"M"	PUBLIC	21,610			1,054,950	117,217	2706174.53	1049214.56				
2706707.08	1053215.71	"M"	PUBLIC						2703015.78	1049786.31				
2707328.25	1055754.89	"END"	TOTAL						2702989.72	1049714.82				

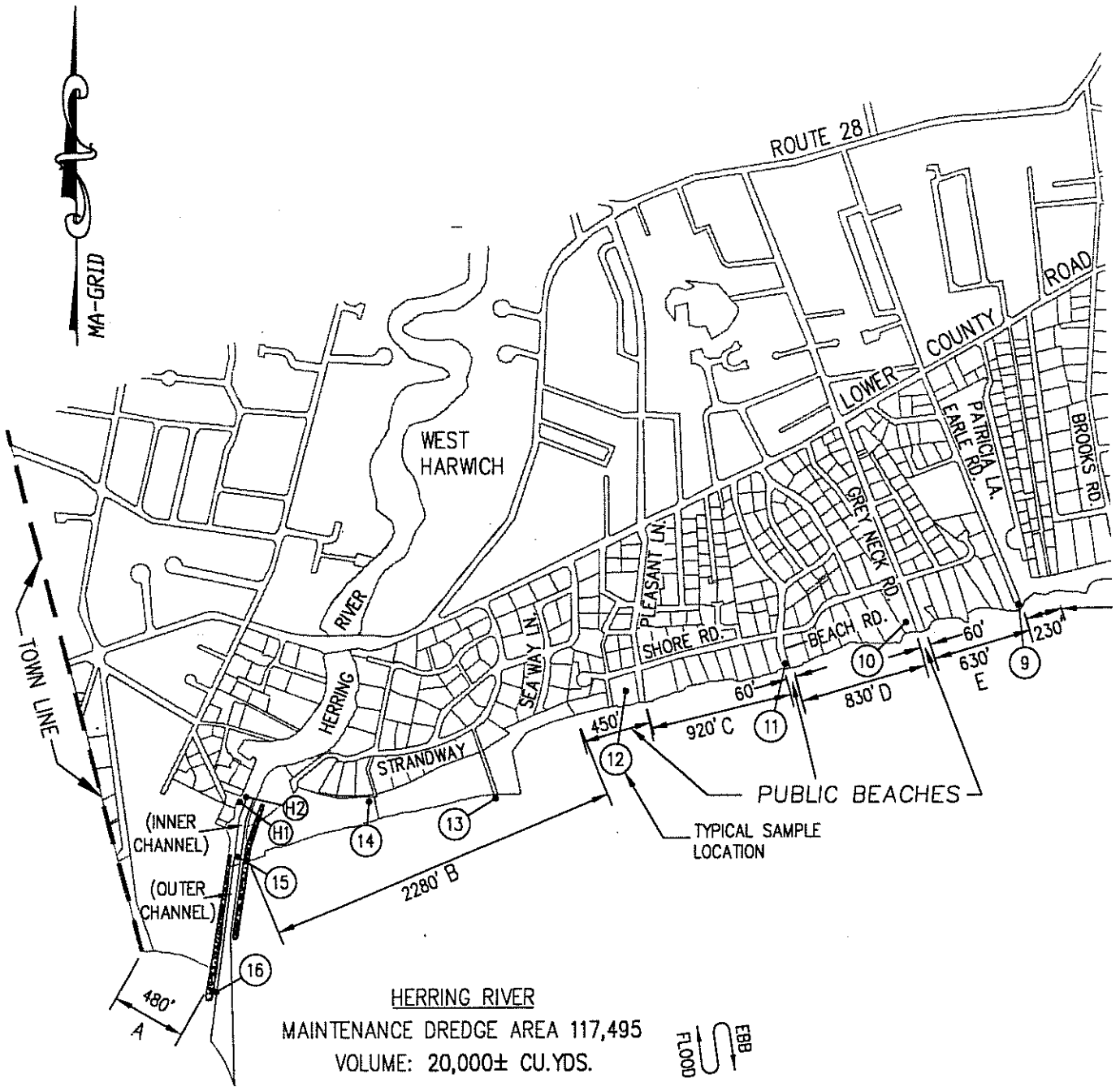
REV. 06-23-08
REV. 04-03-08

PERMIT NO. 12379
Approved by Department of Environmental Protection
Date: MAR 06 2009

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PROPOSED DREDGING AND NOURISHMENT PLAN
HARWICH, MA

PROJECT NO. C16678.01
SCALE AS NOTED
DATE 08/29/07



PLAN

SCALE: 1" = 1000'

HERRING RIVER
 MAINTENANCE DREDGE AREA 117,495
 VOLUME: 20,000 ± CU.YDS.

NANTUCKET SOUND

PERMIT NO. 12379
 Approved by Department of Environmental Protection
 Date: **MAR 06 2008**

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

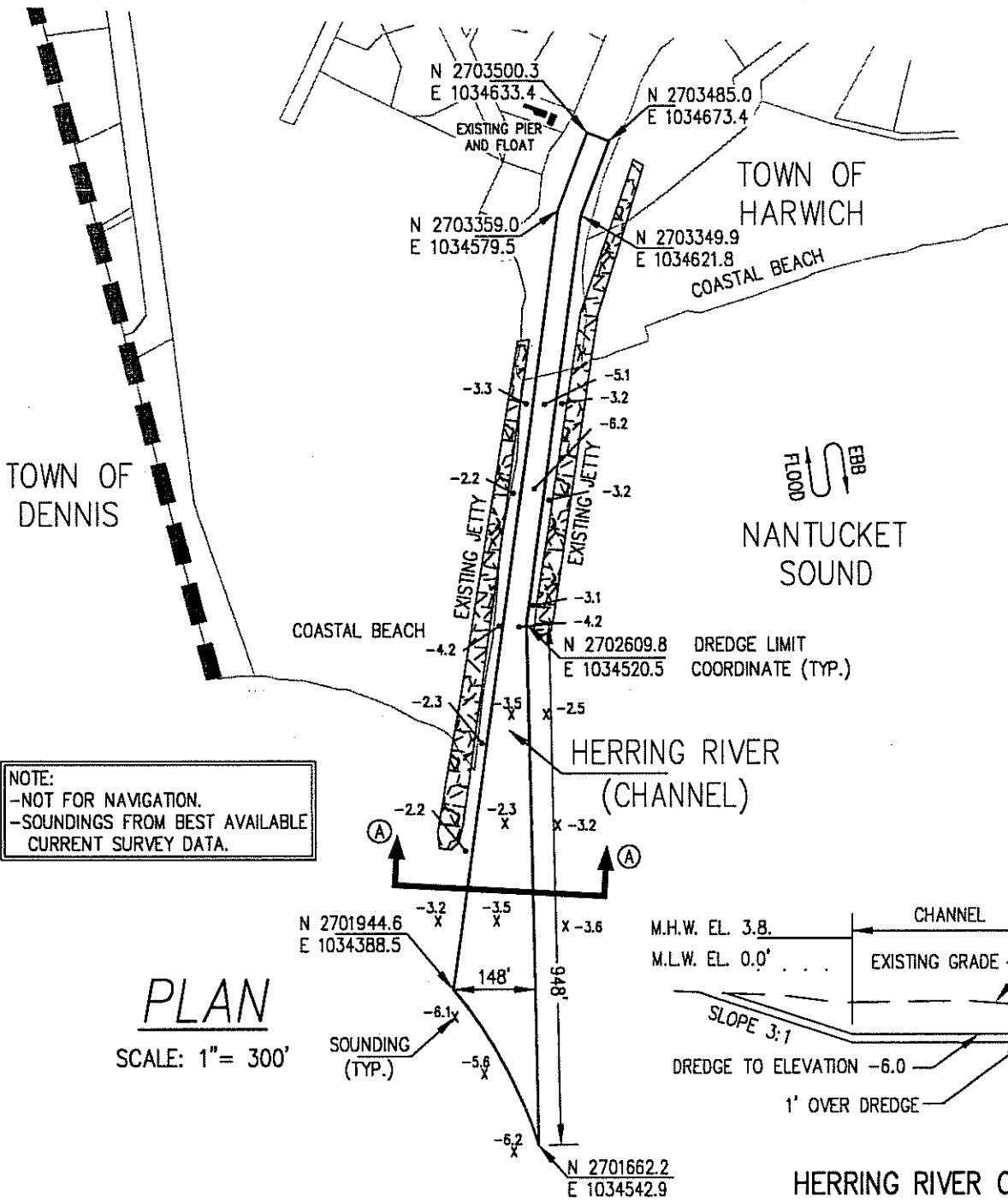
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PROPOSED DREDGING AND NOURISHMENT PLAN
 PROJECT HARWICH, MA

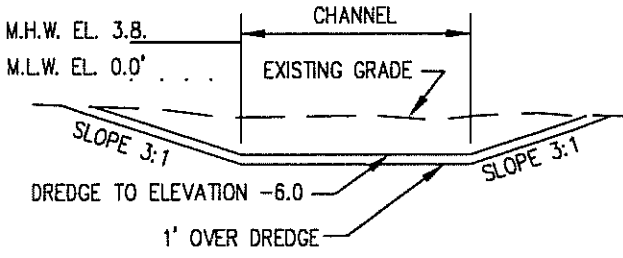
SHEET NO.
3 OF 10

PROJECT NO.
 C16678.01
 SCALE
 AS NOTED
 DATE
 -08/29/07-



NOTE:
 -NOT FOR NAVIGATION.
 -SOUNDINGS FROM BEST AVAILABLE
 CURRENT SURVEY DATA.

PLAN
 SCALE: 1" = 300'



**HERRING RIVER CHANNEL
 DREDGE PROFILE A-A**
 DREDGE TO EL. -6.0
 NOT TO SCALE

PERMIT NO. 12379
 Approved by Department of Environmental Protection
 Date: **MAR 06 2009**

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

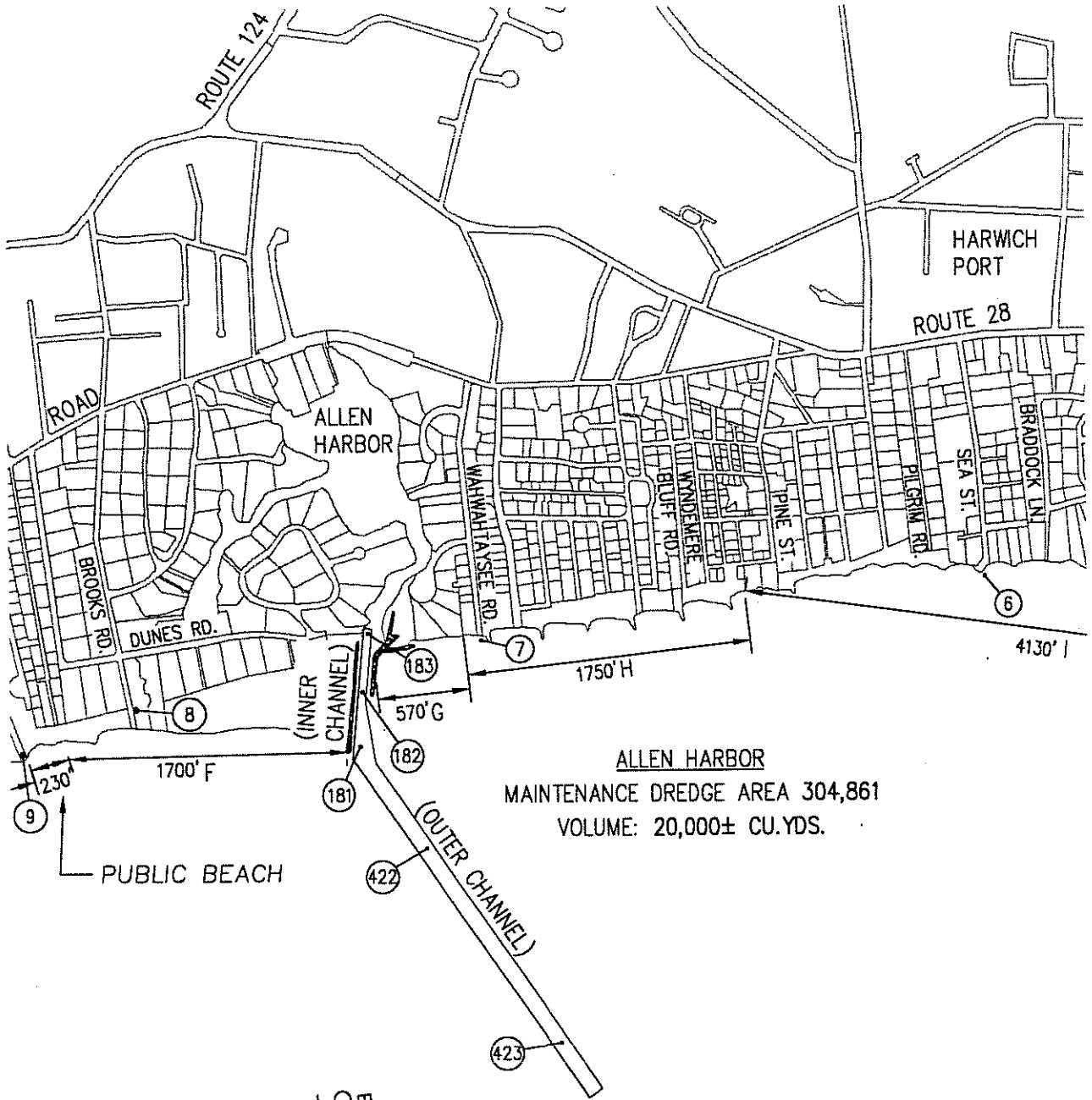
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**PROPOSED DREDGING
 AND
 NOURISHMENT PLAN**
 PROJECT **HARWICH, MA**

SHEET NO.
4 OF 10

PROJECT NO.
 C16678.01
 SCALE
 AS NOTED
 DATE
 -08/29/07



ALLEN HARBOR
 MAINTENANCE DREDGE AREA 304,861
 VOLUME: 20,000± CU.YDS.

PLAN

SCALE: 1" = 1000'



NANTUCKET SOUND

PERMIT NO. 12379

Approved by Department of Environmental Protection

Date: **MAR 06 2009**

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

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PROPOSED DREDGING AND NOURISHMENT PLAN
 HARWICH, MA

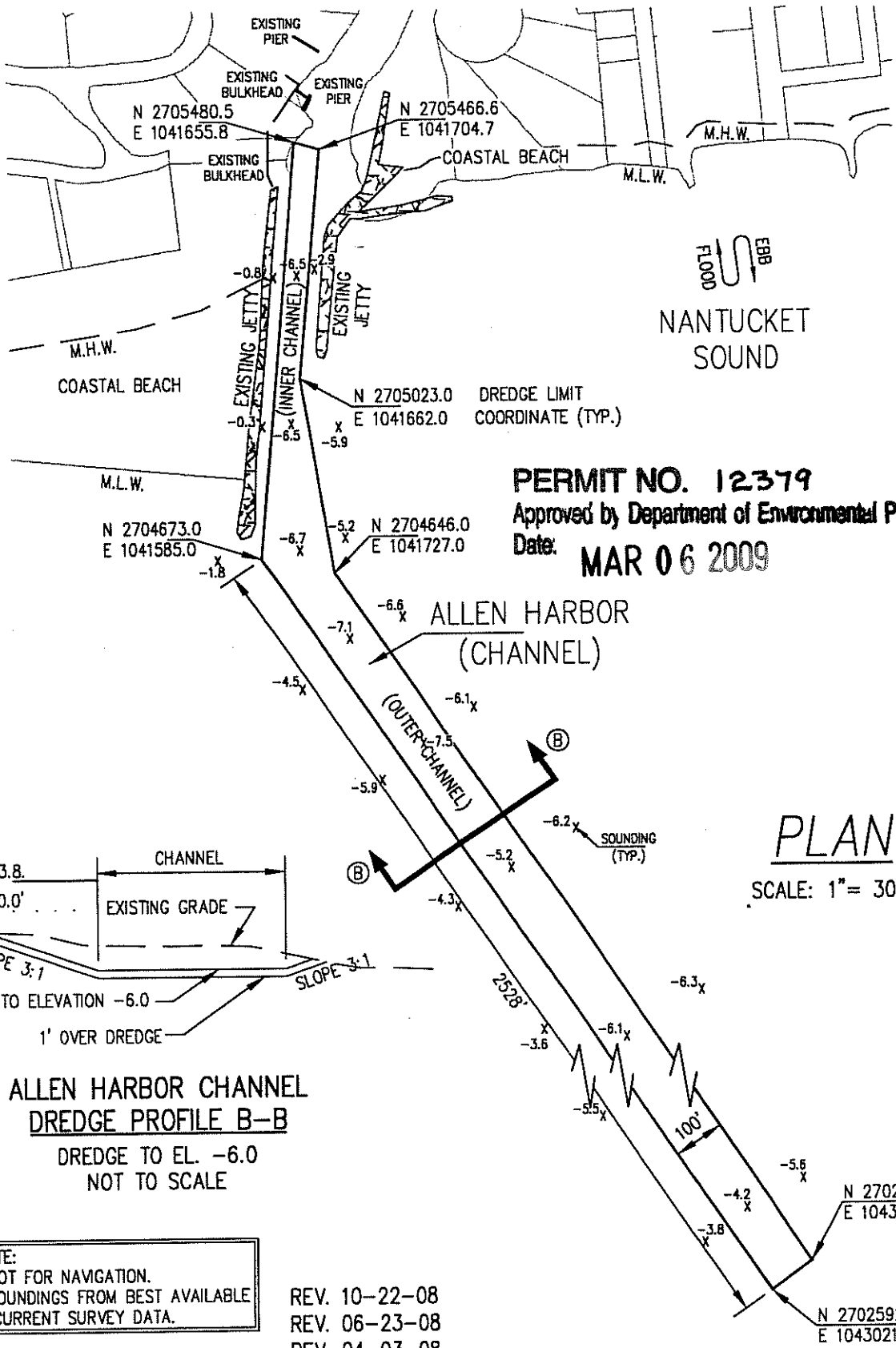
SHEET NO.

5 OF 10

PROJECT NO. C16678.01

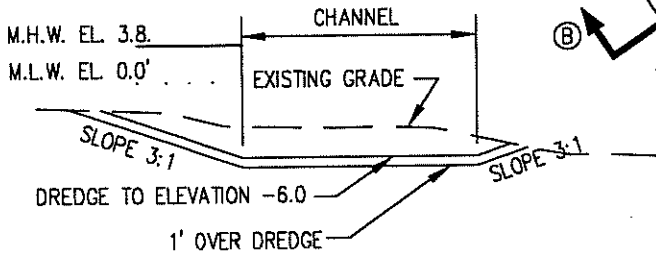
SCALE AS NOTED

DATE -08/29/07



PERMIT NO. 12379
 Approved by Department of Environmental Protection
 Date: **MAR 06 2009**

PLAN
 SCALE: 1" = 300'



**ALLEN HARBOR CHANNEL
 DREDGE PROFILE B-B**
 DREDGE TO EL. -6.0
 NOT TO SCALE

NOTE:
 -NOT FOR NAVIGATION.
 -SOUNDINGS FROM BEST AVAILABLE
 CURRENT SURVEY DATA.

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

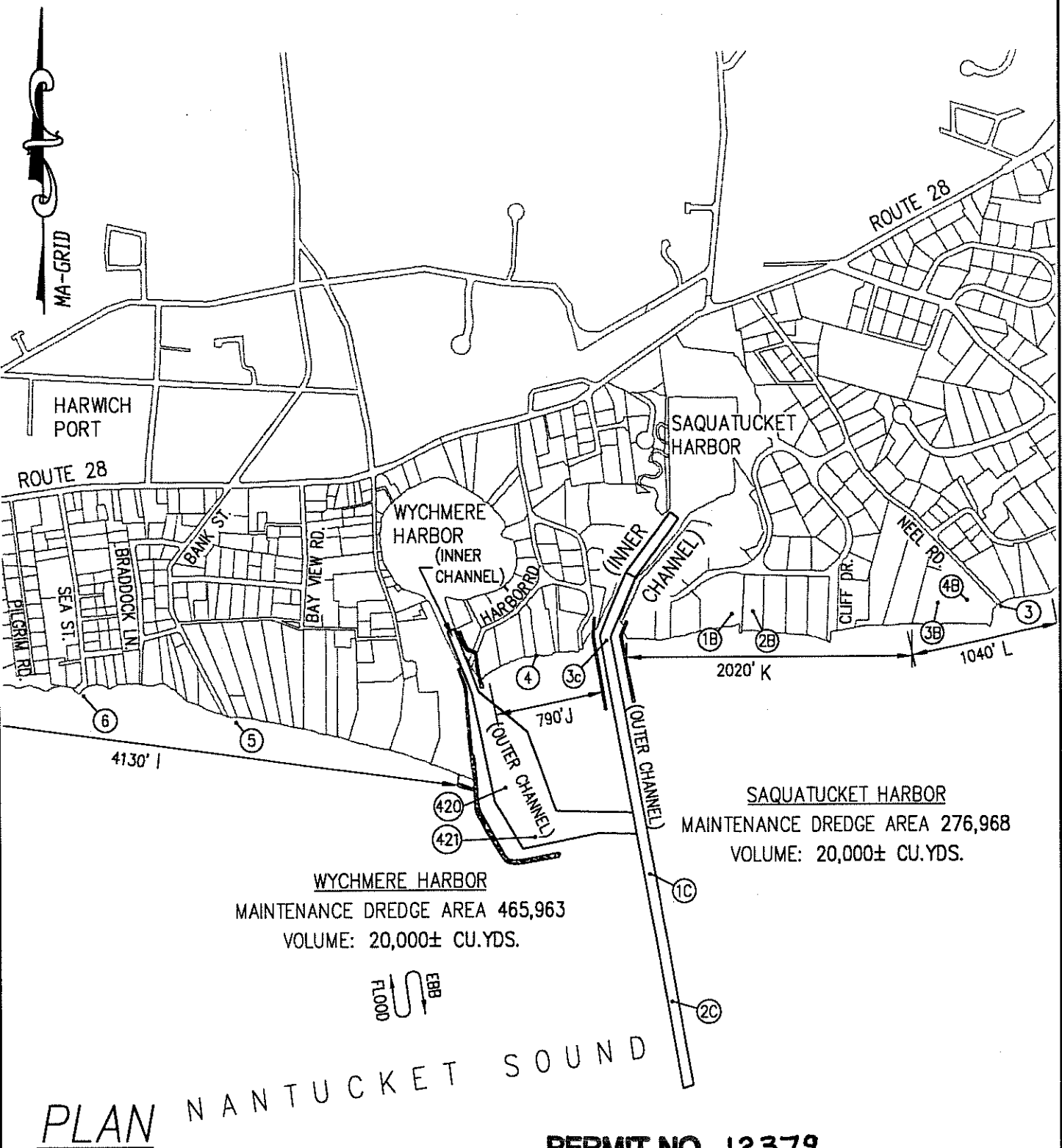
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**PROPOSED DREDGING
 AND
 NOURISHMENT PLAN**
 PROJECT HARWICH, MA

SHEET NO.
6 OF 10

PROJECT NO.
 C16678.01
 SCALE
 AS NOTED
 DATE
 -08/29/07



WYCHMERE HARBOR
 MAINTENANCE DREDGE AREA 465,963
 VOLUME: 20,000± CU.YDS.

SAQUATUCKET HARBOR
 MAINTENANCE DREDGE AREA 276,968
 VOLUME: 20,000± CU.YDS.

PLAN NANTUCKET SOUND

SCALE: 1" = 1000'

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

PERMIT NO. 12379
 Approved by Department of Environmental Protection
 Date: **MAR 06 2009**

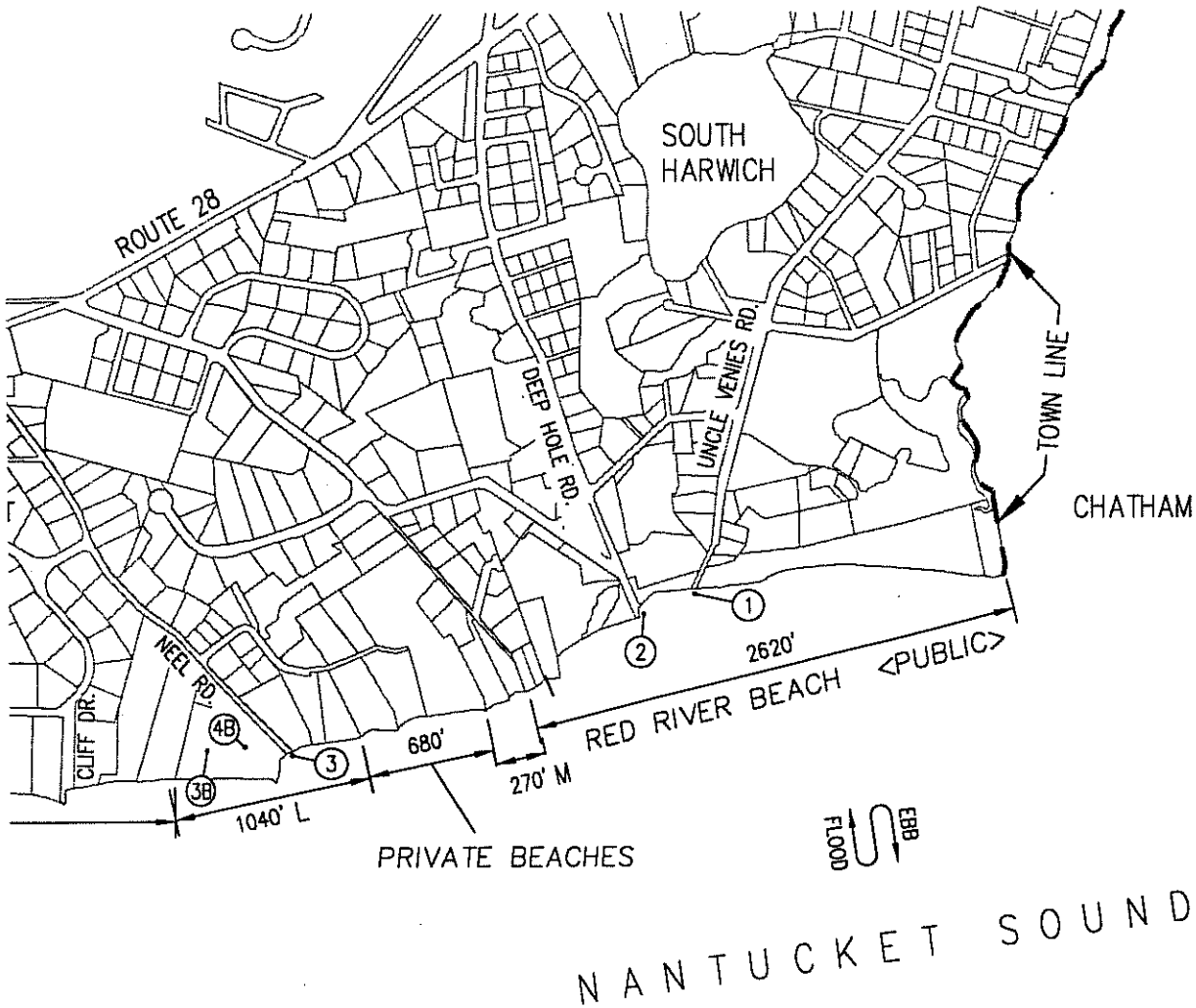
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PROPOSED DREDGING AND NOURISHMENT PLAN
 SAQUATUCKET HARWICH, MA

SHEET NO.
7 OF 10

PROJECT NO.
 C16678.01
 SCALE
 AS NOTED
 DATE
 -08/29/07



NANTUCKET SOUND

PLAN

SCALE: 1" = 1000'

REV. 10-22-08
 REV. 06-23-08
 REV. 04-03-08

PERMIT NO. 12379

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Date: **MAR 06 2009**

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**PROPOSED DREDGING
 AND
 NOURISHMENT PLAN**
 PROJECT HARWICH, MA

SHEET NO.

9 OF 10

PROJECT NO.

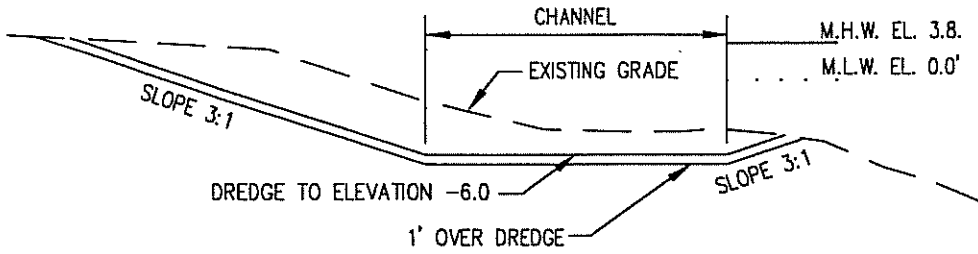
C16678.01

SCALE

AS NOTED

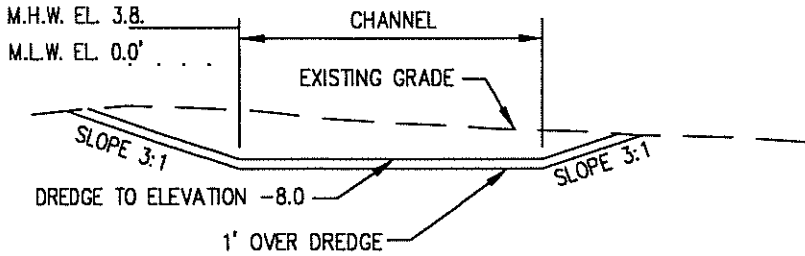
DATE

-08/29/07



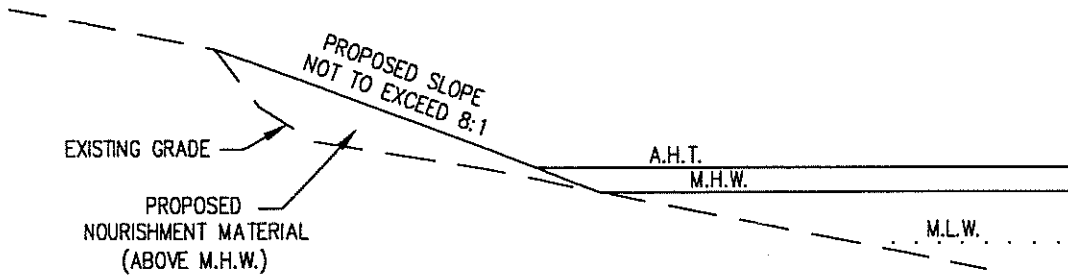
**WYCHMERE HARBOR CHANNEL
DREDGE PROFILE C-C**

DREDGE TO EL. -6.0
NOT TO SCALE



**SAQUATUCKET HARBOR CHANNEL
DREDGE PROFILE D-D**

DREDGE TO EL. -8.0
NOT TO SCALE



TYPICAL BEACH NOURISHMENT PROFILE

NOT TO SCALE

REV. 10-22-08

REV. 06-23-08

REV. 04-03-08

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**PROPOSED DREDGING
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PROJECT

HARWICH, MA

SHEET NO.

10 OF 10

PROJECT NO.

C16678.01

SCALE

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-08/29/07