



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS  
696 VIRGINIA ROAD  
CONCORD, MASSACHUSETTS 01742-2751

May 23, 2011

Regulatory Division  
Permit Number: NAE-2008-14

Thomas Leach, Harbormaster  
Town of Harwich  
PO Box 207  
Harwichport, MA 02646

Dear Mr. Leach:

In accordance with your recent request, your Department of the Army permit, number NAE-2008-14, is hereby amended. This work is located in the Saquatucket, Allen, Wynchmere Harbors and Herring River in Harwich, MA and is described on the enclosed plans entitled "PROPOSED DREDGING AND BEACH NOURISHMENT PLAN HARWICH MA on 7 sheets, and dated 8/29/07." The work involves maintenance hydraulic dredging with beach nourishment. However there will be no beach nourishment of the Red River Beach this year due to the presence of nesting piping plovers.

Special Condition 5 of the original authorization dated July 9, 2008 is replaced with the following condition to be consistent with the state approvals:

5. In order to protect spawning, larval and juvenile development of winter flounder, no dredging shall occur between January 15<sup>th</sup> and May 30<sup>th</sup> at the inner channel of the Herring River, Allen Harbor, Wychmere Harbor and Saquatucket Harbor. In addition, no dredging shall occur between March 15<sup>th</sup> and June 15<sup>th</sup> within the Herring River to protect herring migration and spawning.

All other conditions of the original permit remain in full force and effect.

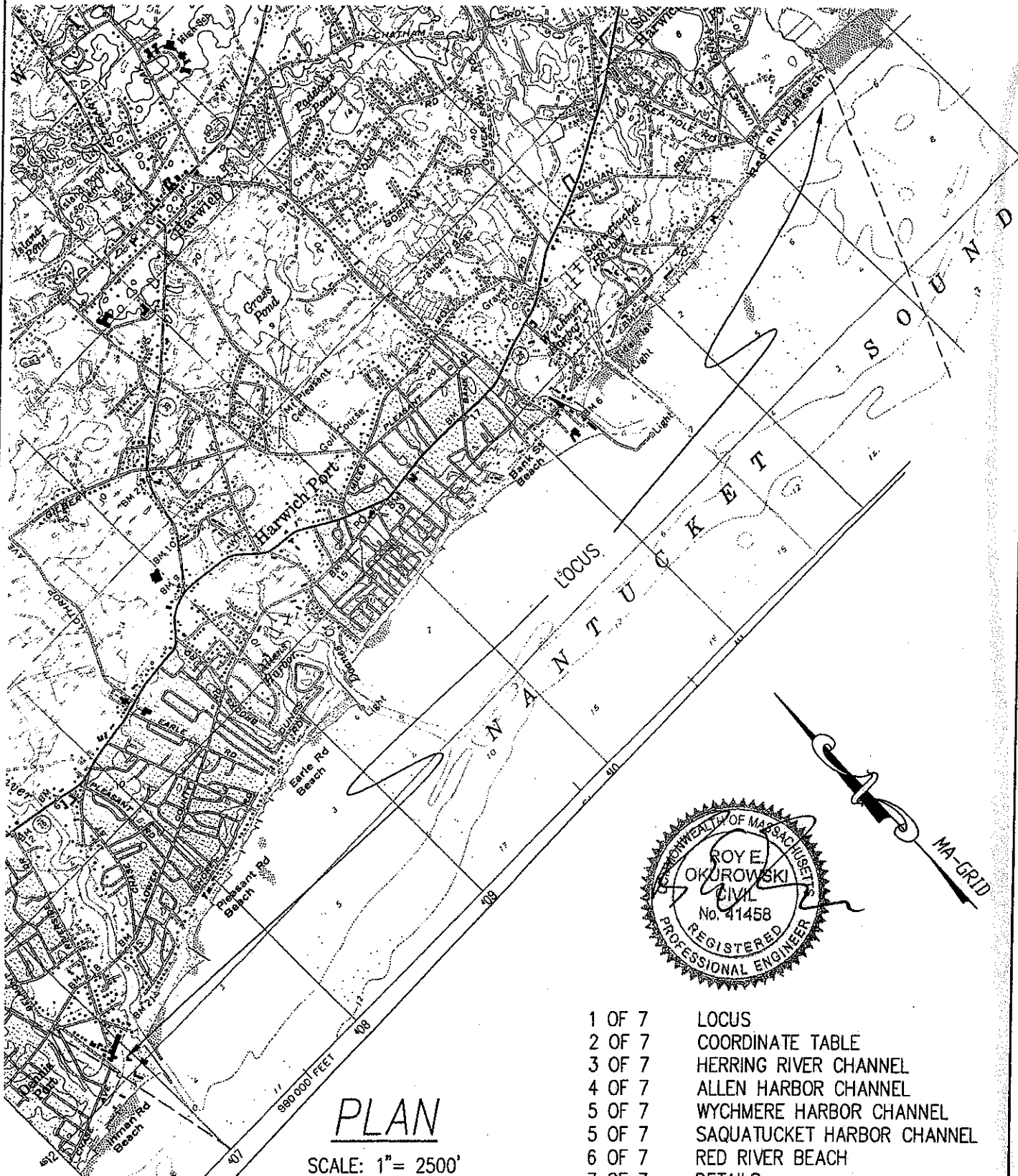
Also, this authorization requires that you notify us before beginning the work and that you allow us to inspect the project. Thus, you must complete and return the attached Work Start Notification Form as soon as you know the proposed starting date of this project. Ordinarily the form must arrive at our office no later than two weeks before the work will begin; please submit this immediately if not already done.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

*Alan R. Amarchuka-Nasemorn*

*for* Philip T. Feir  
Colonel, Corps of Engineers  
District Engineer

Attachment



**PLAN**

SCALE: 1" = 2500'

- 1 OF 7 LOCUS
- 2 OF 7 COORDINATE TABLE
- 3 OF 7 HERRING RIVER CHANNEL
- 4 OF 7 ALLEN HARBOR CHANNEL
- 5 OF 7 WYCHMERE HARBOR CHANNEL
- 5 OF 7 SAQUATUCKET HARBOR CHANNEL
- 6 OF 7 RED RIVER BEACH
- 7 OF 7 DETAILS

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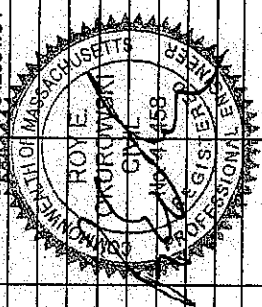
**COASTAL ENGINEERING COMPANY, INC.**  
 260 Cranberry Hwy. Orleans, MA 02653  
 508.255.6511 Fax: 508.255.6700

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

SHEET NO. **1 OF 7**

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"							2701662.24	1034542.87	2	2707114.00	1063851.50
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"							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"							2703497.06	1034578.92	6	2705771.50	1045476.00
2704306.02	1038062.02	"C"	PRIVATE	920	3	40	36,800	4,089	2703293.27	1034569.39	7	2705394.00	1042375.50
2704306.02	1038062.02	"C"							2701944.64	1034388.47	8	2704986.00	1040257.00
2704314.06	1038120.61	"D"	PUBLIC	60	3	40	2,400	267	2701810.77	1034479.06	9	2704717.00	1039566.00
2704314.06	1038120.61	"D"							2701662.24	1034542.87	10	2704596.00	1038857.00
2704314.06	1038120.61	"D"	PRIVATE	830	3	45	37,350	4,150	ALLEN HARBOR		11	2704335.50	1038076.50
2704526.91	1038920.38	"D"							2702592.00	1043021.00	12	2704164.00	1037054.50
2704526.91	1038920.38	"D"	PUBLIC	60	3	45	2,700	300	2702649.00	1043101.00	13	2703481.50	1036215.00
2704543.89	1038982.30	"E"							2704646.00	1041727.00	14	2703464.50	1035401.00
2704543.89	1038982.30	"E"	PRIVATE	630	3	40	25,200	2,800	2705023.00	1041662.00	15	2703113.00	1034567.50
2704703.21	1039589.87	"E"							2705466.64	1041704.69	16	2702655.50	1034508.00
2704703.21	1039589.87	"E"	PUBLIC	230	3	40	9,200	1,022	2705480.46	1041655.80	1c	2704478.11	1049483.47
2704801.02	1039806.62	"F"							2704673.00	1041585.00	2c	2703664.57	1049652.23
2704801.02	1039806.62	"F"	PRIVATE	1,700	3	80	136,000	15,111	2702592.00	1043021.00	3c	2706144.79	1049184.33
2704805.51	1041551.31	"F"							WYCHMERE HARBOR		1b	2706330.82	1050060.33
2705328.01	1041775.54	"G"	PRIVATE	570	3	50	28,500	3,167	2704781.50	1049390.49	2b	2706347.35	1050205.92
2705431.25	1042272.33	"G"							2704785.57	1049119.41	3b	2706400.57	1051525.36
2705431.25	1042272.33	"G"	PRIVATE	1,750	3	50	87,500	9,722	2704678.74	1048562.74	4b	2706420.09	1051728.01
2705690.34	1044010.51	"H"							2705008.66	1048367.24	181	2704749.80	1041629.52
2705690.34	1044010.51	"H"	PRIVATE	4,130	3	50	206,500	22,944	2705769.88	1048210.18	182	2705084.06	1041645.03
2705139.01	1048110.59	"I"							2706214.37	1048041.23	183	2705443.14	1041680.14
2705877.28	1048312.59	"J"	PRIVATE	790	3	40	31,600	3,511	2706232.14	1048087.96	420	2705108.50	1048439.00
2706120.32	1049087.68	"J"							2705787.64	1048256.92	421	2704761.00	1048652.50
2706094.09	1049332.17	"K"	PRIVATE	2,020	3	40	80,800	8,978	2705500.80	1048600.26	422	2704121.62	1042035.43
2706252.04	1051320.14	"K"							2704943.73	1048808.38	423	2702928.22	1042851.04
2706252.04	1051320.14	"K"	PRIVATE	1,040	3	45	46,800	5,200	2704930.29	1049363.56			
2706466.10	1052322.60	"L"							2704781.50	1049390.49			
2706252.04	1052322.60	"L"	PRIVATE	680	3	45	30,600	3,400	SAQUATUCKET HARBOR				
2706466.10	1052986.59	"M"							2702989.72	1049714.82			
2706466.10	1052986.59	"M"	PRIVATE	270	3	40	10,800	1,200	2706182.80	1049136.84			
2706707.08	1053215.71	"M"							2706627.47	1049320.26			
2706707.08	1053215.71	"M"	PRIVATE	2,620	3	50	131,000	14,566	2706590.69	1049396.22			
2707328.25	1055754.89	"END"	PUBLIC						2706174.53	1049214.56			
		TOTAL		21,510			1,054,950	117,217	2709015.78	1049786.31			
									2702989.72	1049714.82			



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**COASTAL**  
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**COMPANY, INC.**

260 Cranberry Hwy, Orleans, MA 02653  
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**PROPOSED DREDGING**  
**AND**  
**NOURISHMENT PLAN**

PROJECT HARWICH, MA

SHEET NO.

**2 OF 7**

PROJECT NO.

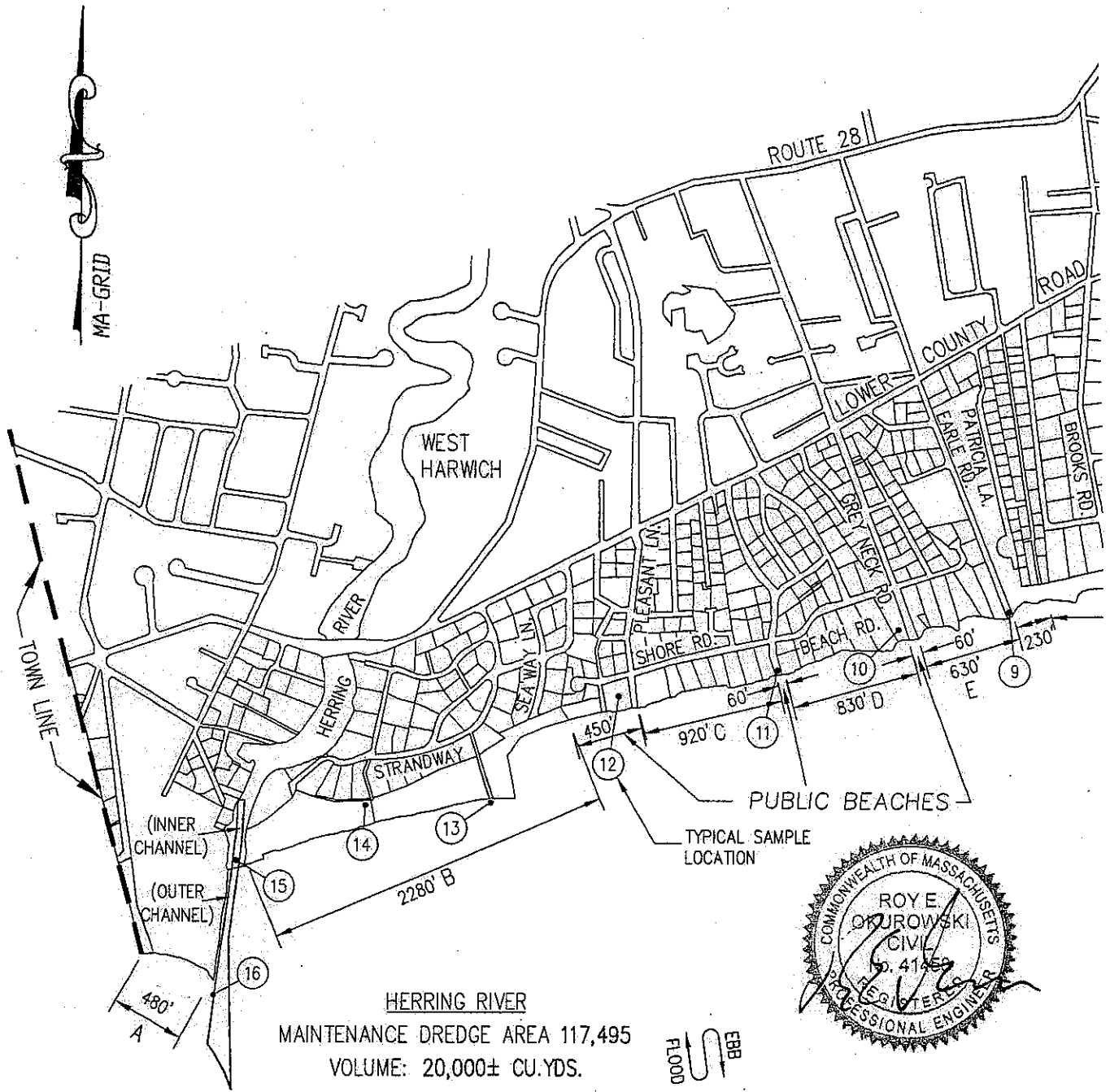
C16678.01

SCALE

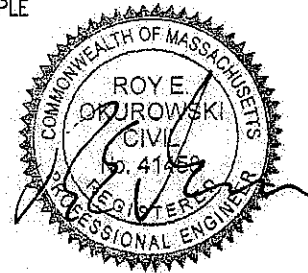
AS NOTED

DATE

08/29/07



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



NANTUCKET SOUND

PLAN

SCALE: 1" = 1000'

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

SHEET NO.

**3 OF 7**

PROJECT NO.

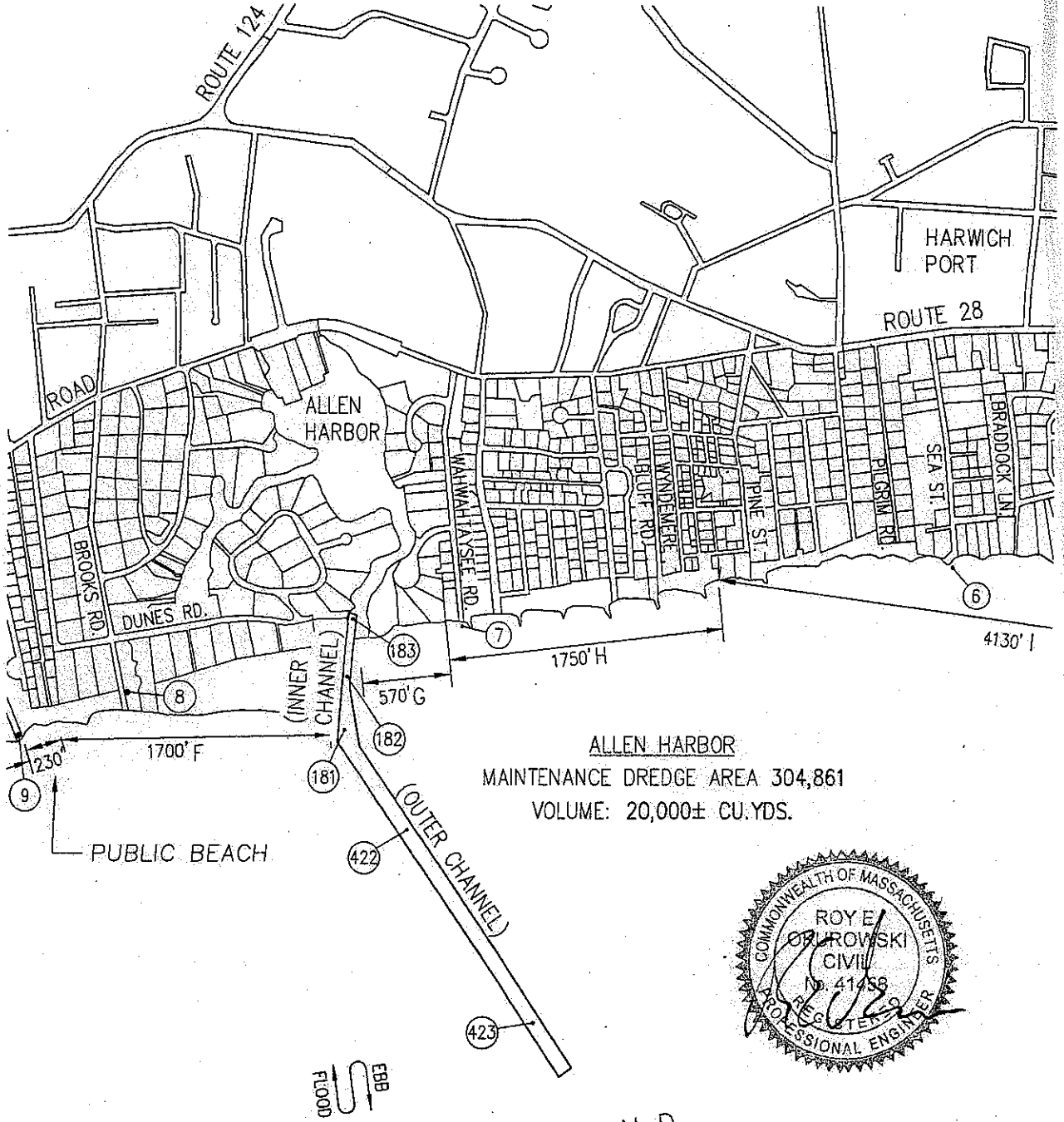
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SCALE

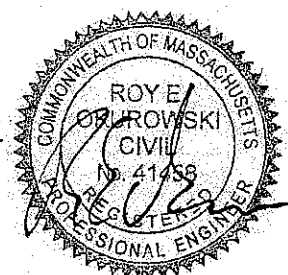
AS NOTED

DATE

08/29/07



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



NANTUCKET SOUND

PLAN

SCALE: 1" = 1000'

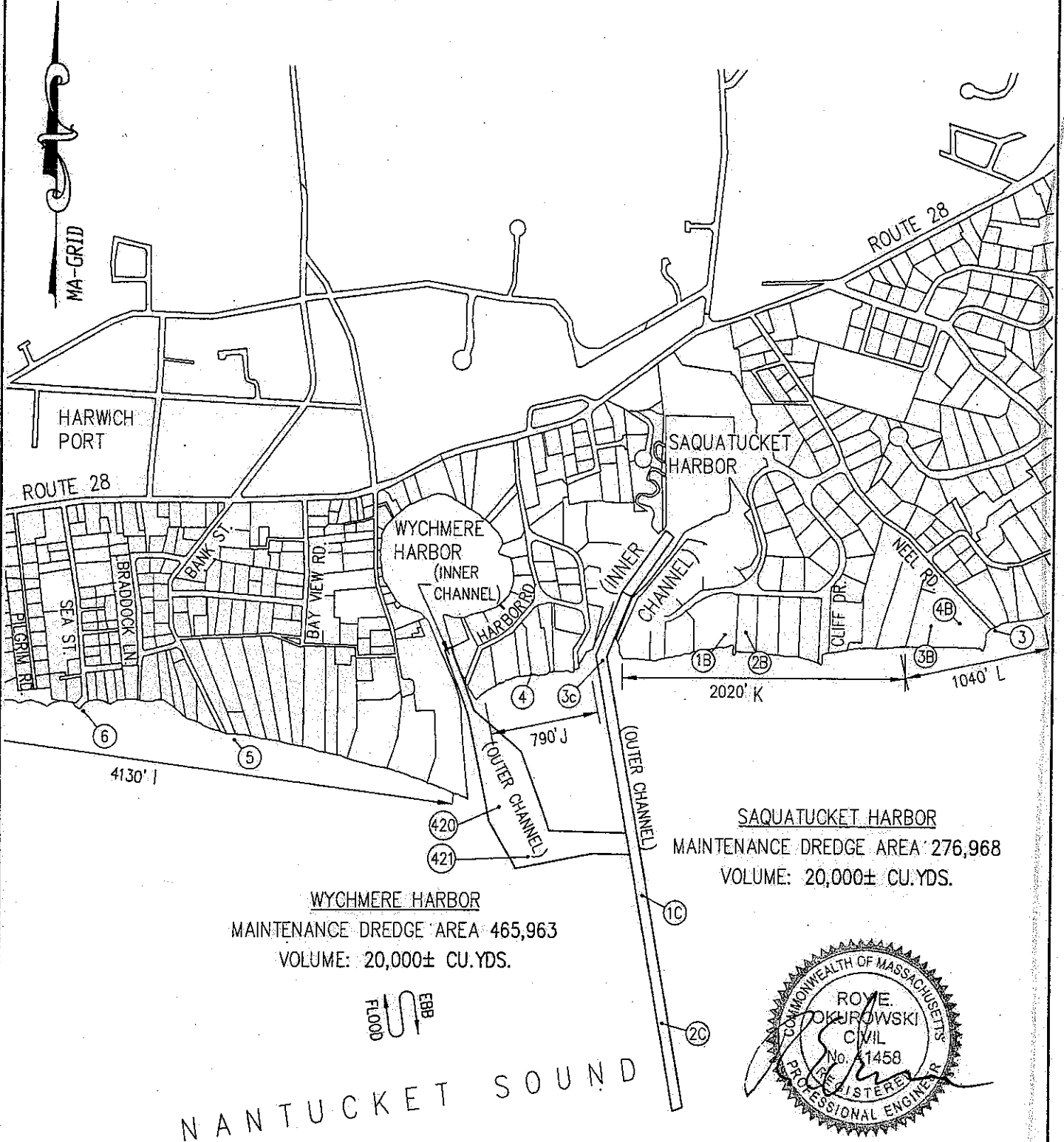
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**PROPOSED DREDGING  
 AND  
 NOURISHMENT PLAN**  
 PROJECT HARWICH, MA

SHEET NO.  
**4 OF 7**

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.



NANTUCKET SOUND

**PLAN**

SCALE: 1" = 1000'

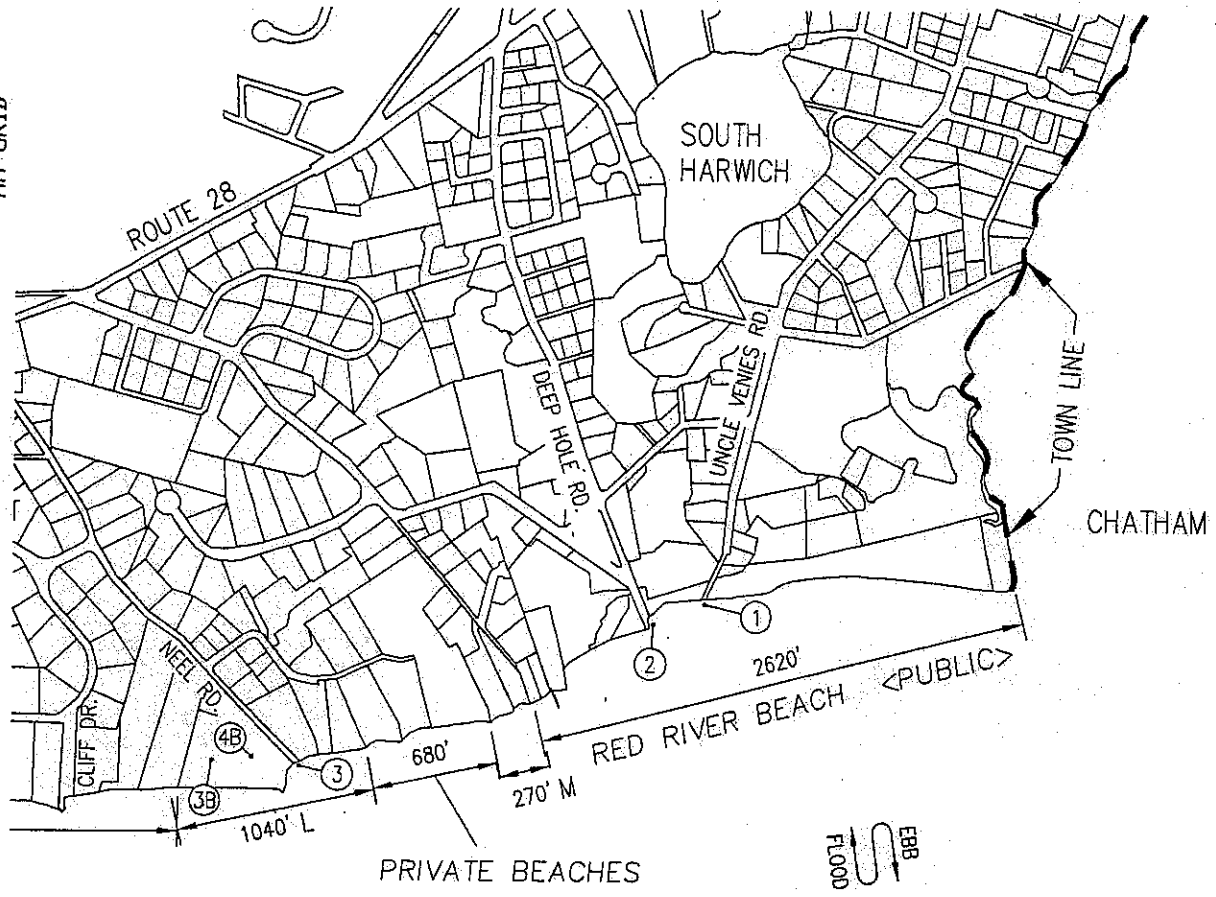
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**PROPOSED DREDGING AND NOURISHMENT PLAN**  
 SAQUATUCKET HARWICH, MA

SHEET NO.  
**5 OF 7**

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



NANTUCKET SOUND

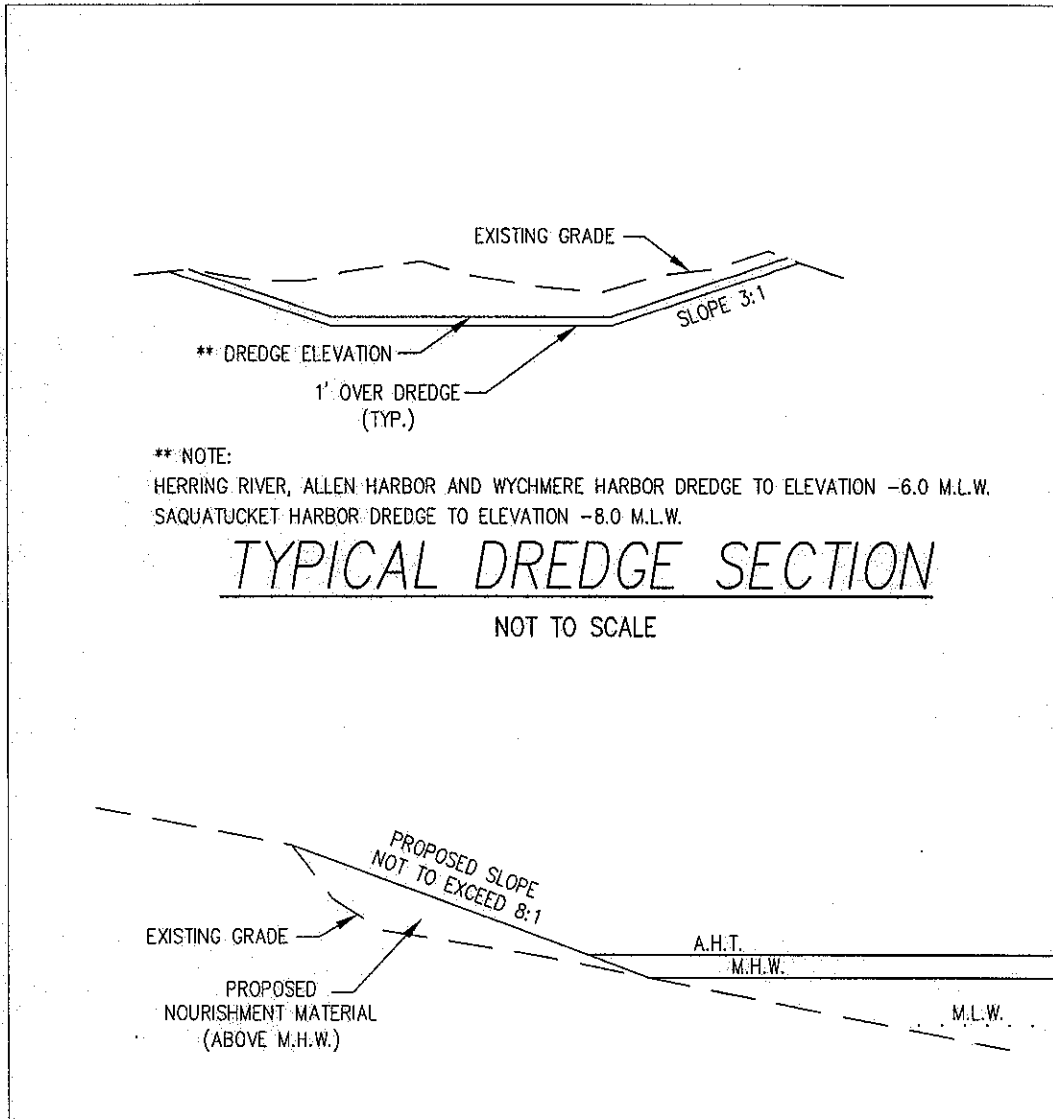


PLAN

SCALE: 1" = 1000'

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<b>COASTAL ENGINEERING COMPANY, INC.</b> 260 Cranberry Hwy. Orleans, MA 02653 508.255.6311 Fax: 508.255.6700	<b>PROPOSED DREDGING AND NOURISHMENT PLAN</b> PROJECT HARWICH, MA	SHEET NO.	PROJECT NO.
		<b>6 OF 7</b>	C16678.01
		SCALE	AS NOTED
		DATE	08/29/07



**TYPICAL DREDGE SECTION**

NOT TO SCALE

**TYPICAL BEACH NOURISHMENT PROFILE**

NOT TO SCALE

**\*\* NOTE:**  
 HERRING RIVER, ALLEN HARBOR AND WYCHMERE HARBOR DREDGE TO ELEVATION -6.0 M.L.W.  
 SAQUATUCKET HARBOR DREDGE TO ELEVATION -8.0 M.L.W.

REV. 06-23-08 ADDED A.H.T. TO SHEET 7 OF 7  
 REV. 04-03-08

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<b>COASTAL ENGINEERING COMPANY, INC.</b> 260 Cranberry Hwy. Orleans, MA 02653 508.255.6511 Fax: 508.255.6700	<b>PROPOSED DREDGING AND NOURISHMENT PLAN</b> PROJECT HARWICH, MA	SHEET NO.	PROJECT NO.
		<b>7 OF 7</b>	SCALE
			DATE
			C16678.01 AS NOTED 08/29/07



**US Army Corps  
of Engineers®**  
New England District

**GENERAL PERMIT  
WORK-START NOTIFICATION FORM**  
(Minimum Notice: Two weeks before work begins)

\*\*\*\*\*  
 \* MAIL TO: U.S. Army Corps of Engineers, New England District \*  
 \* Permits and Enforcement Branch \*  
 \* Regulatory Division \*  
 \* 696 Virginia Road \*  
 \* Concord, Massachusetts 01742-2751 \*  
 \*\*\*\*\*

Corps of Engineers Permit No. 2008-14 was issued to Town of Harwich on 7/9/08. This dredging is located in the Saquatucket, Allen, Wynchmere Harbors and Herring River in Harwich, MA. The permit authorized the permittee to maintenance dredge (hydraulic) with beach nourishment.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

**PLEASE PRINT OR TYPE**

**Name of Person/Firm:** \_\_\_\_\_

**Business Address:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Telephone Numbers:** ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**Proposed Work Dates:** Start: \_\_\_\_\_ Finish: \_\_\_\_\_

**Permittee/Agent Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Permit Issued: 7/9/08, extended 2/17/10, modified 5/23/2011 Permit Expires: 1/21/2015**  
 \*\*\*\*\*

**FOR USE BY THE CORPS OF ENGINEERS**

**PM:** Kristoff

**Submittals Required:** Yes

**Inspection Recommendation:** during construction