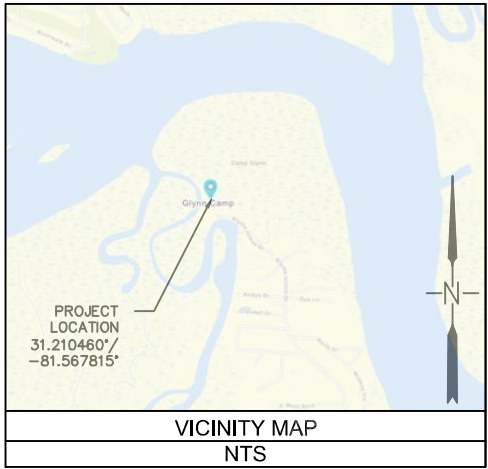


# HILLARY ISLAND COASTAL MARSHLANDS PROTECTION ACT SHORELINE AND DOCK ASSESSMENT



PREPARED FOR:  
MARK & KIM HANLY  
1800 BLYTHE ISLAND ROAD  
BRUNSWICK, GA 31523

LABARBA ENVIRONMENTAL SERVICES  
139 ALTAMA CONN. #161  
BRUNSWICK, GA 31525

LEGEND	
These standard symbols will be found in the drawing.	
	EDGE OF MARSH VEGETATION
	MEAN LOW WATER
	HIGH TIDE LINE/CMPA LINE
	FLEXAMAT
	EROSIONAL SHORELINE
	STABLE SHORELINE
	EXISTING RIP RAP
	PROPOSED RIP RAP

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

ORIGINAL ISSUE DATE: 5/4/2025

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COVER

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: NTS

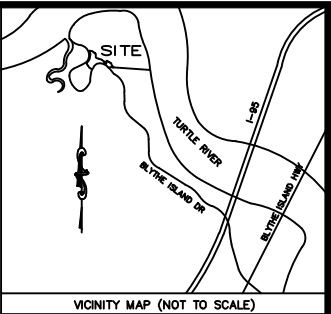
1

SHEET:

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.



LEGEND:

- ASPHALT
- BUILDING
- CONCRETE
- SALT MARSH

REFERENCES:

1. PLAT BOOK 19, PAGE 1136
2. DEED BOOK 4636, PAGE 404
3. SURVEY BY SHUPE SURVEYING COMPANY, P.C., TITLED 'LIMITED DEVELOPMENT SURVEY OF: A PORTION OF HILLARY ISLAND', DATED 04/12/2022, LAST REVISED 09/28/2022.

NOTES:

1. BEARINGS AND COORDINATES SHOWN ON THIS SURVEY ARE BASED ON THE GEORGIA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 AND WERE ESTABLISHED USING RTK GPS WITH A VRS NETWORK.
2. FIELD EQUIPMENT USED FOR THIS SURVEY: CARLSON BRX7 RTK GPS WITH VRS NETWORK (wGPS SOLUTIONS)
3. THE ADJOINING PROPERTY INFORMATION SHOWN ON THIS SURVEY WAS TAKEN FROM THE GLYNN COUNTY GIS WEBSITE (WWW.OPUBLIC.COM/GA/GLYNN) AND COURTHOUSE RESEARCH.
4. THIS SURVEY AND ALL SUBSEQUENT REVISIONS ARE BASED SOLELY ON FIELD WORK THAT WAS COMPLETED ON 02/18/2025 (UNLESS OTHERWISE NOTED). SHUPE SURVEYING COMPANY, P.C. IS NOT RESPONSIBLE FOR ANY CHANGES TO SITE CONDITIONS AFTER THIS DATE.
5. FRESHWATER WETLANDS AND SALT MARSHES MAY BE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE DEPARTMENT OF NATURAL RESOURCES. LOT OWNERS AND THE DEVELOPER MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATIONS AND APPROVAL. FRESHWATER WETLANDS WERE NOT SURVEYED AS PART OF THIS PROJECT.
6. COASTAL MARSHLANDS PROTECTION ACT (CMPA) JURISDICTION LINE WAS DELINEATED BY THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. THE CMPA LINE IS MARKED WITH PVC PIPE.
7. THIS PROPERTY MAY BE SUBJECT TO THE 15' GLYNN COUNTY DEVELOPMENT SETBACK MEASURED FROM THE CMPA LINE.
8. THIS PROPERTY MAY BE SUBJECT TO THE 25' CMPA BUFFER.
9. A CARLSON BRX7 DUAL FREQUENCY RTK GPS WITH A VRS NETWORK WAS USED TO ESTABLISH STATE PLANE COORDINATES AND LOCATE CMPA LINE. THE RELATIVE POSITIONAL TOLERANCE IS 0.05 FEET AT THE 95% ACCURACY CONFIDENCE LEVEL.
10. EXISTING IMPROVEMENTS SHOWN AS TAKEN FROM REFERENCE 3.

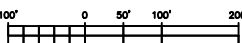
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N 89°12'24" E	20.14	L49	S 89°20'24" W	30.17	L97	N 89°12'24" E	20.14	L145	S 89°20'24" W	30.17
L2	N 89°12'24" E	20.14	L50	S 89°20'24" W	30.17	L98	N 89°12'24" E	20.14	L146	S 89°20'24" W	30.17
L3	N 89°12'24" E	20.14	L51	S 89°20'24" W	30.17	L99	N 89°12'24" E	20.14	L147	S 89°20'24" W	30.17
L4	N 89°12'24" E	20.14	L52	S 89°20'24" W	30.17	L100	N 89°12'24" E	20.14	L148	S 89°20'24" W	30.17
L5	N 89°12'24" E	20.14	L53	S 89°20'24" W	30.17	L101	N 89°12'24" E	20.14	L149	S 89°20'24" W	30.17
L6	N 89°12'24" E	20.14	L54	S 89°20'24" W	30.17	L102	N 89°12'24" E	20.14	L150	S 89°20'24" W	30.17
L7	N 89°12'24" E	20.14	L55	S 89°20'24" W	30.17	L103	N 89°12'24" E	20.14	L151	S 89°20'24" W	30.17
L8	N 89°12'24" E	20.14	L56	S 89°20'24" W	30.17	L104	N 89°12'24" E	20.14	L152	S 89°20'24" W	30.17
L9	N 89°12'24" E	20.14	L57	S 89°20'24" W	30.17	L105	N 89°12'24" E	20.14	L153	S 89°20'24" W	30.17
L10	N 89°12'24" E	20.14	L58	S 89°20'24" W	30.17	L106	N 89°12'24" E	20.14	L154	S 89°20'24" W	30.17
L11	N 89°12'24" E	20.14	L59	S 89°20'24" W	30.17	L107	N 89°12'24" E	20.14	L155	S 89°20'24" W	30.17
L12	N 89°12'24" E	20.14	L60	S 89°20'24" W	30.17	L108	N 89°12'24" E	20.14	L156	S 89°20'24" W	30.17
L13	N 89°12'24" E	20.14	L61	S 89°20'24" W	30.17	L109	N 89°12'24" E	20.14	L157	S 89°20'24" W	30.17
L14	N 89°12'24" E	20.14	L62	S 89°20'24" W	30.17	L110	N 89°12'24" E	20.14	L158	S 89°20'24" W	30.17
L15	N 89°12'24" E	20.14	L63	S 89°20'24" W	30.17	L111	N 89°12'24" E	20.14	L159	S 89°20'24" W	30.17
L16	N 89°12'24" E	20.14	L64	S 89°20'24" W	30.17	L112	N 89°12'24" E	20.14	L160	S 89°20'24" W	30.17
L17	N 89°12'24" E	20.14	L65	S 89°20'24" W	30.17	L113	N 89°12'24" E	20.14	L161	S 89°20'24" W	30.17
L18	N 89°12'24" E	20.14	L66	S 89°20'24" W	30.17	L114	N 89°12'24" E	20.14	L162	S 89°20'24" W	30.17
L19	N 89°12'24" E	20.14	L67	S 89°20'24" W	30.17	L115	N 89°12'24" E	20.14	L163	S 89°20'24" W	30.17
L20	N 89°12'24" E	20.14	L68	S 89°20'24" W	30.17	L116	N 89°12'24" E	20.14	L164	S 89°20'24" W	30.17
L21	N 89°12'24" E	20.14	L69	S 89°20'24" W	30.17	L117	N 89°12'24" E	20.14	L165	S 89°20'24" W	30.17
L22	N 89°12'24" E	20.14	L70	S 89°20'24" W	30.17	L118	N 89°12'24" E	20.14	L166	S 89°20'24" W	30.17
L23	N 89°12'24" E	20.14	L71	S 89°20'24" W	30.17	L119	N 89°12'24" E	20.14	L167	S 89°20'24" W	30.17
L24	N 89°12'24" E	20.14	L72	S 89°20'24" W	30.17	L120	N 89°12'24" E	20.14	L168	S 89°20'24" W	30.17
L25	N 89°12'24" E	20.14	L73	S 89°20'24" W	30.17	L121	N 89°12'24" E	20.14	L169	S 89°20'24" W	30.17
L26	N 89°12'24" E	20.14	L74	S 89°20'24" W	30.17	L122	N 89°12'24" E	20.14	L170	S 89°20'24" W	30.17
L27	N 89°12'24" E	20.14	L75	S 89°20'24" W	30.17	L123	N 89°12'24" E	20.14	L171	S 89°20'24" W	30.17
L28	N 89°12'24" E	20.14	L76	S 89°20'24" W	30.17	L124	N 89°12'24" E	20.14	L172	S 89°20'24" W	30.17
L29	N 89°12'24" E	20.14	L77	S 89°20'24" W	30.17	L125	N 89°12'24" E	20.14	L173	S 89°20'24" W	30.17
L30	N 89°12'24" E	20.14	L78	S 89°20'24" W	30.17	L126	N 89°12'24" E	20.14	L174	S 89°20'24" W	30.17
L31	N 89°12'24" E	20.14	L79	S 89°20'24" W	30.17	L127	N 89°12'24" E	20.14	L175	S 89°20'24" W	30.17
L32	N 89°12'24" E	20.14	L80	S 89°20'24" W	30.17	L128	N 89°12'24" E	20.14	L176	S 89°20'24" W	30.17
L33	N 89°12'24" E	20.14	L81	S 89°20'24" W	30.17	L129	N 89°12'24" E	20.14	L177	S 89°20'24" W	30.17
L34	N 89°12'24" E	20.14	L82	S 89°20'24" W	30.17	L130	N 89°12'24" E	20.14	L178	S 89°20'24" W	30.17
L35	N 89°12'24" E	20.14	L83	S 89°20'24" W	30.17	L131	N 89°12'24" E	20.14	L179	S 89°20'24" W	30.17
L36	N 89°12'24" E	20.14	L84	S 89°20'24" W	30.17	L132	N 89°12'24" E	20.14	L180	S 89°20'24" W	30.17
L37	N 89°12'24" E	20.14	L85	S 89°20'24" W	30.17	L133	N 89°12'24" E	20.14	L181	S 89°20'24" W	30.17
L38	N 89°12'24" E	20.14	L86	S 89°20'24" W	30.17	L134	N 89°12'24" E	20.14	L182	S 89°20'24" W	30.17
L39	N 89°12'24" E	20.14	L87	S 89°20'24" W	30.17	L135	N 89°12'24" E	20.14	L183	S 89°20'24" W	30.17
L40	N 89°12'24" E	20.14	L88	S 89°20'24" W	30.17	L136	N 89°12'24" E	20.14	L184	S 89°20'24" W	30.17
L41	N 89°12'24" E	20.14	L89	S 89°20'24" W	30.17	L137	N 89°12'24" E	20.14	L185	S 89°20'24" W	30.17
L42	N 89°12'24" E	20.14	L90	S 89°20'24" W	30.17	L138	N 89°12'24" E	20.14	L186	S 89°20'24" W	30.17
L43	N 89°12'24" E	20.14	L91	S 89°20'24" W	30.17	L139	N 89°12'24" E	20.14	L187	S 89°20'24" W	30.17
L44	N 89°12'24" E	20.14	L92	S 89°20'24" W	30.17	L140	N 89°12'24" E	20.14	L188	S 89°20'24" W	30.17
L45	N 89°12'24" E	20.14	L93	S 89°20'24" W	30.17	L141	N 89°12'24" E	20.14	L189	S 89°20'24" W	30.17
L46	N 89°12'24" E	20.14	L94	S 89°20'24" W	30.17	L142	N 89°12'24" E	20.14	L190	S 89°20'24" W	30.17
L47	N 89°12'24" E	20.14	L95	S 89°20'24" W	30.17	L143	N 89°12'24" E	20.14	L191	S 89°20'24" W	30.17
L48	N 89°12'24" E	20.14	L96	S 89°20'24" W	30.17	L144	N 89°12'24" E	20.14	L192	S 89°20'24" W	30.17

A CMPA JURISDICTION LINE SURVEY OF:

CAMP GLYNN,  
HILLARY ISLAND

27TH G.M.D.,  
GLYNN COUNTY, GEORGIA

PREPARED FOR:  
MARK HANLY AND KIM HANLY



SHEET 1 OF 1



DATE: 5/4/2025

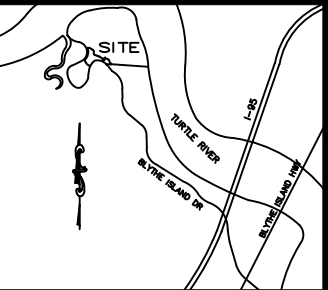
SCALE: 1"=250' (FOR 11"x17" PLOT)

S

SHEET:

NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.



VICINITY MAP (NOT TO SCALE)

LEGEND:

- ASPHALT
- BUILDING
- CONCRETE
- SALT MARSH

TOTAL UPLAND AREA: 524,278.97 SF  
TOTAL BUFFER AREA: 117,702.60 SF (22%)



CMPA JURISDICTION LINE

25' MARSH SETBACK

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N 03°00'00" W	20.14	L98	S 89°30'00" W	36.17	L95	N 46°31'48" E	37.23	L142	S 48°51'00" E	27.73
L2	N 03°00'00" W	20.14	L99	S 89°30'00" W	36.17	L96	N 46°31'48" E	37.23	L143	S 48°51'00" E	27.73
L3	N 03°00'00" W	20.14	L100	S 89°30'00" W	36.17	L97	N 46°31'48" E	37.23	L144	S 48°51'00" E	27.73
L4	N 03°00'00" W	20.14	L101	S 89°30'00" W	36.17	L98	N 46°31'48" E	37.23	L145	S 48°51'00" E	27.73
L5	N 03°00'00" W	20.14	L102	S 89°30'00" W	36.17	L99	N 46°31'48" E	37.23	L146	S 48°51'00" E	27.73
L6	N 03°00'00" W	20.14	L103	S 89°30'00" W	36.17	L100	N 46°31'48" E	37.23	L147	S 48°51'00" E	27.73
L7	N 03°00'00" W	20.14	L104	S 89°30'00" W	36.17	L101	N 46°31'48" E	37.23	L148	S 48°51'00" E	27.73
L8	N 03°00'00" W	20.14	L105	S 89°30'00" W	36.17	L102	N 46°31'48" E	37.23	L149	S 48°51'00" E	27.73
L9	N 03°00'00" W	20.14	L106	S 89°30'00" W	36.17	L103	N 46°31'48" E	37.23	L150	S 48°51'00" E	27.73
L10	N 03°00'00" W	20.14	L107	S 89°30'00" W	36.17	L104	N 46°31'48" E	37.23	L151	S 48°51'00" E	27.73
L11	N 03°00'00" W	20.14	L108	S 89°30'00" W	36.17	L105	N 46°31'48" E	37.23	L152	S 48°51'00" E	27.73
L12	N 03°00'00" W	20.14	L109	S 89°30'00" W	36.17	L106	N 46°31'48" E	37.23	L153	S 48°51'00" E	27.73
L13	N 03°00'00" W	20.14	L110	S 89°30'00" W	36.17	L107	N 46°31'48" E	37.23	L154	S 48°51'00" E	27.73
L14	N 03°00'00" W	20.14	L111	S 89°30'00" W	36.17	L108	N 46°31'48" E	37.23	L155	S 48°51'00" E	27.73
L15	N 03°00'00" W	20.14	L112	S 89°30'00" W	36.17	L109	N 46°31'48" E	37.23	L156	S 48°51'00" E	27.73
L16	N 03°00'00" W	20.14	L113	S 89°30'00" W	36.17	L110	N 46°31'48" E	37.23	L157	S 48°51'00" E	27.73
L17	N 03°00'00" W	20.14	L114	S 89°30'00" W	36.17	L111	N 46°31'48" E	37.23	L158	S 48°51'00" E	27.73
L18	N 03°00'00" W	20.14	L115	S 89°30'00" W	36.17	L112	N 46°31'48" E	37.23	L159	S 48°51'00" E	27.73
L19	N 03°00'00" W	20.14	L116	S 89°30'00" W	36.17	L113	N 46°31'48" E	37.23	L160	S 48°51'00" E	27.73
L20	N 03°00'00" W	20.14	L117	S 89°30'00" W	36.17	L114	N 46°31'48" E	37.23	L161	S 48°51'00" E	27.73
L21	N 03°00'00" W	20.14	L118	S 89°30'00" W	36.17	L115	N 46°31'48" E	37.23	L162	S 48°51'00" E	27.73
L22	N 03°00'00" W	20.14	L119	S 89°30'00" W	36.17	L116	N 46°31'48" E	37.23	L163	S 48°51'00" E	27.73
L23	N 03°00'00" W	20.14	L120	S 89°30'00" W	36.17	L117	N 46°31'48" E	37.23	L164	S 48°51'00" E	27.73
L24	N 03°00'00" W	20.14	L121	S 89°30'00" W	36.17	L118	N 46°31'48" E	37.23	L165	S 48°51'00" E	27.73
L25	N 03°00'00" W	20.14	L122	S 89°30'00" W	36.17	L119	N 46°31'48" E	37.23	L166	S 48°51'00" E	27.73
L26	N 03°00'00" W	20.14	L123	S 89°30'00" W	36.17	L120	N 46°31'48" E	37.23	L167	S 48°51'00" E	27.73
L27	N 03°00'00" W	20.14	L124	S 89°30'00" W	36.17	L121	N 46°31'48" E	37.23	L168	S 48°51'00" E	27.73
L28	N 03°00'00" W	20.14	L125	S 89°30'00" W	36.17	L122	N 46°31'48" E	37.23	L169	S 48°51'00" E	27.73
L29	N 03°00'00" W	20.14	L126	S 89°30'00" W	36.17	L123	N 46°31'48" E	37.23	L170	S 48°51'00" E	27.73
L30	N 03°00'00" W	20.14	L127	S 89°30'00" W	36.17	L124	N 46°31'48" E	37.23	L171	S 48°51'00" E	27.73
L31	N 03°00'00" W	20.14	L128	S 89°30'00" W	36.17	L125	N 46°31'48" E	37.23	L172	S 48°51'00" E	27.73
L32	N 03°00'00" W	20.14	L129	S 89°30'00" W	36.17	L126	N 46°31'48" E	37.23	L173	S 48°51'00" E	27.73
L33	N 03°00'00" W	20.14	L130	S 89°30'00" W	36.17	L127	N 46°31'48" E	37.23	L174	S 48°51'00" E	27.73
L34	N 03°00'00" W	20.14	L131	S 89°30'00" W	36.17	L128	N 46°31'48" E	37.23	L175	S 48°51'00" E	27.73
L35	N 03°00'00" W	20.14	L132	S 89°30'00" W	36.17	L129	N 46°31'48" E	37.23	L176	S 48°51'00" E	27.73
L36	N 03°00'00" W	20.14	L133	S 89°30'00" W	36.17	L130	N 46°31'48" E	37.23	L177	S 48°51'00" E	27.73
L37	N 03°00'00" W	20.14	L134	S 89°30'00" W	36.17	L131	N 46°31'48" E	37.23	L178	S 48°51'00" E	27.73
L38	N 03°00'00" W	20.14	L135	S 89°30'00" W	36.17	L132	N 46°31'48" E	37.23	L179	S 48°51'00" E	27.73
L39	N 03°00'00" W	20.14	L136	S 89°30'00" W	36.17	L133	N 46°31'48" E	37.23	L180	S 48°51'00" E	27.73
L40	N 03°00'00" W	20.14	L137	S 89°30'00" W	36.17	L134	N 46°31'48" E	37.23	L181	S 48°51'00" E	27.73
L41	N 03°00'00" W	20.14	L138	S 89°30'00" W	36.17	L135	N 46°31'48" E	37.23	L182	S 48°51'00" E	27.73
L42	N 03°00'00" W	20.14	L139	S 89°30'00" W	36.17	L136	N 46°31'48" E	37.23	L183	S 48°51'00" E	27.73
L43	N 03°00'00" W	20.14	L140	S 89°30'00" W	36.17	L137	N 46°31'48" E	37.23	L184	S 48°51'00" E	27.73
L44	N 03°00'00" W	20.14	L141	S 89°30'00" W	36.17	L138	N 46°31'48" E	37.23	L185	S 48°51'00" E	27.73
L45	N 03°00'00" W	20.14	L142	S 89°30'00" W	36.17	L139	N 46°31'48" E	37.23	L186	S 48°51'00" E	27.73
L46	N 03°00'00" W	20.14	L143	S 89°30'00" W	36.17	L140	N 46°31'48" E	37.23	L187	S 48°51'00" E	27.73
L47	N 03°00'00" W	20.14	L144	S 89°30'00" W	36.17	L141	N 46°31'48" E	37.23	L188	S 48°51'00" E	27.73

LINE	BEARING	DISTANCE
L189	S 57°30'00" W	28.21
L190	N 77°34'54" E	33.43



BUFFER VARIANCE EXHIBIT

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

PREPARED FOR:  
MARK AND KIM HANLY

DATE: 5/4/2025  
SCALE: 1"=250' (FOR 11"x17" PLOT)

BVE

SHEET:



c:\users\khan\_l\one\labarba - labarba environmental services\labarba\project\2024\les\les04 - les04\labarba\environmental\les04\les04.dwg; plotted 9/22/2025 4:03 PM by amlc



LEGEND

- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - HIGH TIDE LINE/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 5/10/22.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

SHEET LAYOUT

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=200' (FOR 11"X17" PLOT)

4

SHEET:



LEGEND

These standard symbols will be found in the drawing.

EDGE OF MARSH VEGETATION

MEAN LOW WATER

HIGH TIDE LINE/CPMA LINE

FLEXAMAT

EROSIONAL SHORELINE

STABLE SHORELINE

EXISTING RIP RAP

PROPOSED RIP RAP

- SHORELINE NOTES
1. WESTERN SHORELINE ALONG HILLARY CREEK DOES NOT HAVE A MARSH BUFFER FROM THE WATERWAY.

2. THE HIGHER BLUFF WITH NO SHORELINE PROTECTION IS CAUSING UNDERCUTTING, UP TO 10-FOOT UNDERNEATH THE EXISTING TREES.

3. EXISTING RIP RAP AROUND THE DOCK IS BEING UNDERMINED.

4. LENGTH OF ERODING SHORELINE  
TOTAL LENGTH: 768 LF  
EXISTING RIP RAP: 100 LF  
NO EXISTING STABILIZATION: 668 LF

NOT RELEASED  
FOR  
CONSTRUCTION

- NOTES
1. AERIAL IMAGERY WAS OBTAINED 9/26/24.

2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.

3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.

4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

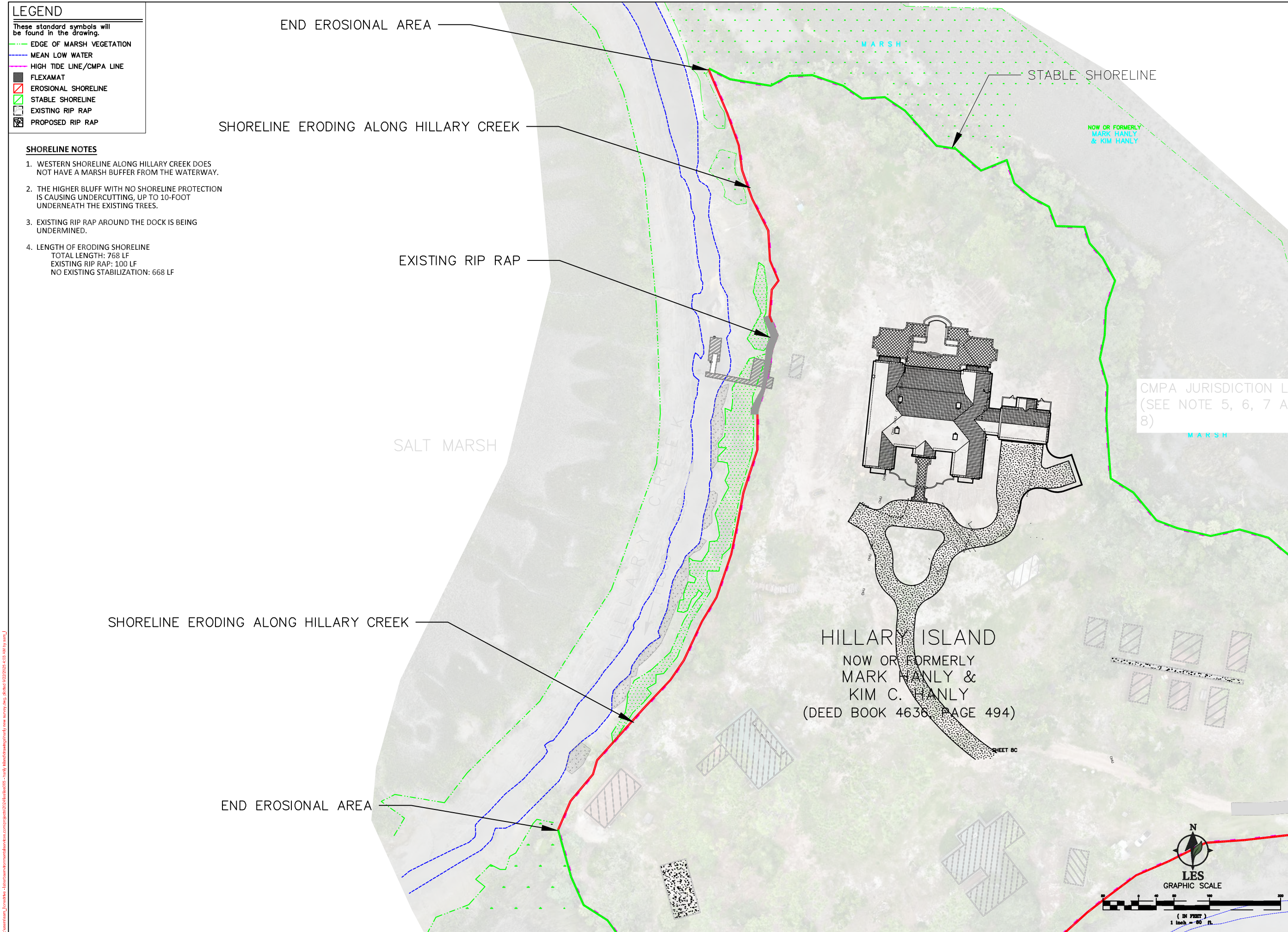
SHORELINE EROSION (1)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=80' (FOR 11"X17" PLOT)

5

SHEET:





## LEGEND

These standard symbols will be found in the drawing.

- EDGE OF MARSH VEGETATION
- MEAN LOW WATER
- HIGH TIDE LINE/CMPA LINE
- FLEXAMAT
- EROSIONAL SHORELINE
- STABLE SHORELINE
- EXISTING RIP RAP
- PROPOSED RIP RAP

## SHORELINE NOTES

1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
3. THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
4. VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
5. THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
5. MATERIAL QUANTITIES  
FLEXAMAT: 693 LF (8,271 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (311 SF)  
EXISTING RIP RAP: 100 LF (414 SF)
6. IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 693 LF (5,617.47 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
RIP RAP: 100 LF (725 SF)  
TEMPORARY MARSH VEG IMPACTS: 1,595

NOT RELEASED  
FOR  
CONSTRUCTION

## NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT

---

PROPOSED STABILIZATION (1)

LABARBA ENVIRONMENTAL SERVICES

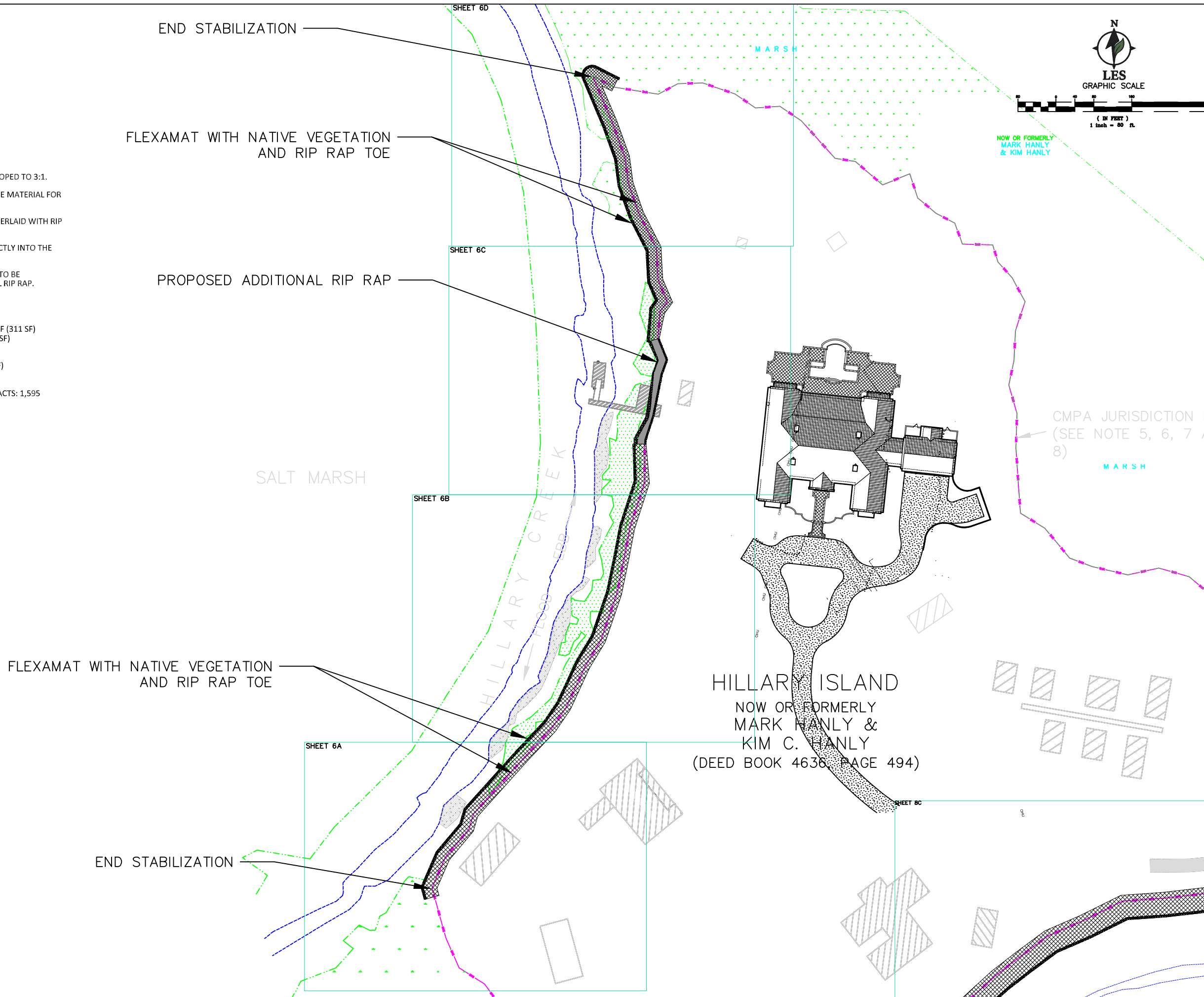
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025

SCALE: 1":80' (FOR 11"X17" PLOT)

6

SHEET:



LEGEND

- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - MEAN HIGH WATER/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP

SHORELINE NOTES

- THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
- FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
- THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
- VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
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FLEXAMAT: 693 LF (8,271 SF)  
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FLEXAMAT: 693 LF (5,617.47 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
RIP RAP: 100 LF (725 SF)  
TEMPORARY MARSH VEG IMPACTS: 1,595

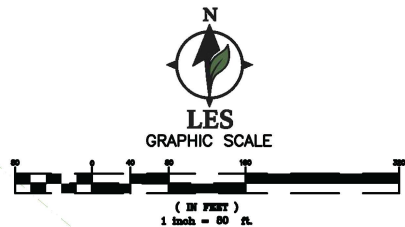
END STABILIZATION

FLEXAMAT WITH NATIVE VEGETATION AND RIP RAP TOE

PROPOSED ADDITIONAL RIP RAP

FLEXAMAT WITH NATIVE VEGETATION AND RIP RAP TOE

END STABILIZATION



NOW OR FORMERLY  
MARK HANLY  
& KIM HANLY

CMPA JURISDICTION L  
(SEE NOTE 5, 6, 7 A  
8)

HILLARY ISLAND  
NOW OR FORMERLY  
MARK HANLY &  
KIM C. HANLY  
(DEED BOOK 4636, PAGE 494)

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

- AERIAL IMAGERY WAS OBTAINED 9/26/24.
- BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
- HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
- TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

PROPOSED STABILIZATION (1)

LABARBA ENVIRONMENTAL SERVICES

BRUNSWICK, GA

PREPARED FOR:

MARK AND KIM HANLY

DATE: 9/21/2025

SCALE: 1"=80' (FOR 11"x17" PLOT)

6

SHEET:



LEGEND

- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - HIGH TIDE LINE/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP

SHORELINE NOTES

- THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
- FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
- THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
- VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
- THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
- MATERIAL QUANTITIES  
FLEXAMAT: 693 LF (8,271 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (311 SF)  
EXISTING RIP RAP: 100 LF (414 SF)
- IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 693 LF (5,617.47 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
RIP RAP: 100 LF (725 SF)  
TEMPORARY MARSH VEG IMPACTS: 1,595

OYSTER BED  
NOT IMPACTED

VEGETATION HARVESTED AND  
REPLANTED INTO FLEXAMAT

OYSTER BED  
NOT IMPACTED

FLEXAMAT WITH NATIVE VEGETATION  
AND RIP RAP TOE

VEGETATION HARVESTED AND  
REPLANTED INTO FLEXAMAT

END STABILIZATION

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

- AERIAL IMAGERY WAS OBTAINED 9/26/24.
- BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
- HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
- TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

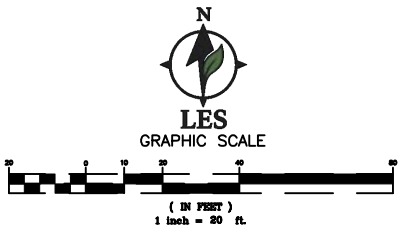
PROPOSED STABILIZATION (1)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=20' (FOR 11"X17" PLOT)

6B

SHEET:



LEGEND

- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - HIGH TIDE LINE/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP

SHORELINE NOTES

- THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
- FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
- THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
- VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
- THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
- MATERIAL QUANTITIES  
FLEXAMAT: 693 LF (8,271 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (311 SF)  
EXISTING RIP RAP: 100 LF (414 SF)
- IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 693 LF (5,617.47 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
RIP RAP: 100 LF (725 SF)  
TEMPORARY MARSH VEG IMPACTS: 1,595

FLEXAMAT WITH NATIVE VEGETATION AND RIP RAP TOE

OYSTER BED NOT IMPACTED

VEGETATION HARVESTED AND REPLANTED INTO FLEXAMAT

OYSTER BED NOT IMPACTED

UPLAND

NOT RELEASED FOR CONSTRUCTION

NOTES

- AERIAL IMAGERY WAS OBTAINED 9/26/24.
- BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
- HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
- TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

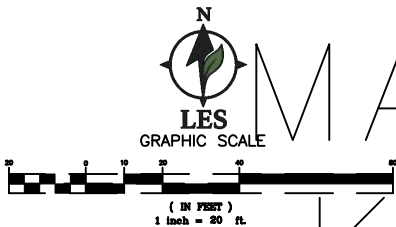
PROPOSED STABILIZATION (1)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1":20' (FOR 11"x17" PLOT)








6C

SHEET:



## LEGEND

These standard symbols will be found in the drawing.

-  EDGE OF MARSH VEGETATION  
 MEAN LOW WATER  
 HIGH TIDE LINE/CMPA LINE  
 FLEXAMAT  
 EROSIONAL SHORELINE  
 STABLE SHORELINE  
 EXISTING RIP RAP  
 PROPOSED RIP RAP

## SHORELINE NOTES

1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
3. THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
4. VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
5. THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
5. MATERIAL QUANTITIES  
FLEXAMAT: 693 LF (8,271 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (311 SF)  
EXISTING RIP RAP: 100 LF (414 SF)
6. IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 693 LF (5,617.47 SF)  
RIP RAP TOE: 693 LF (1,425 SF)  
RIP RAP: 100 LF (725 SF)  
TEMPORARY MARSH VEG IMPACTS: 1,595

NOT RELEASED  
FOR  
CONSTRUCTION

## NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

# PROPOSED STABILIZATION (1)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

PREPARED FOR:  
BRK AND KIM HAN

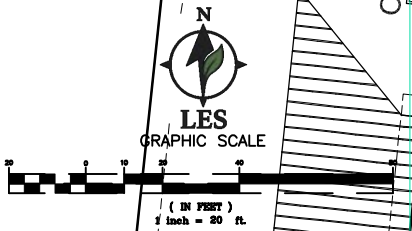
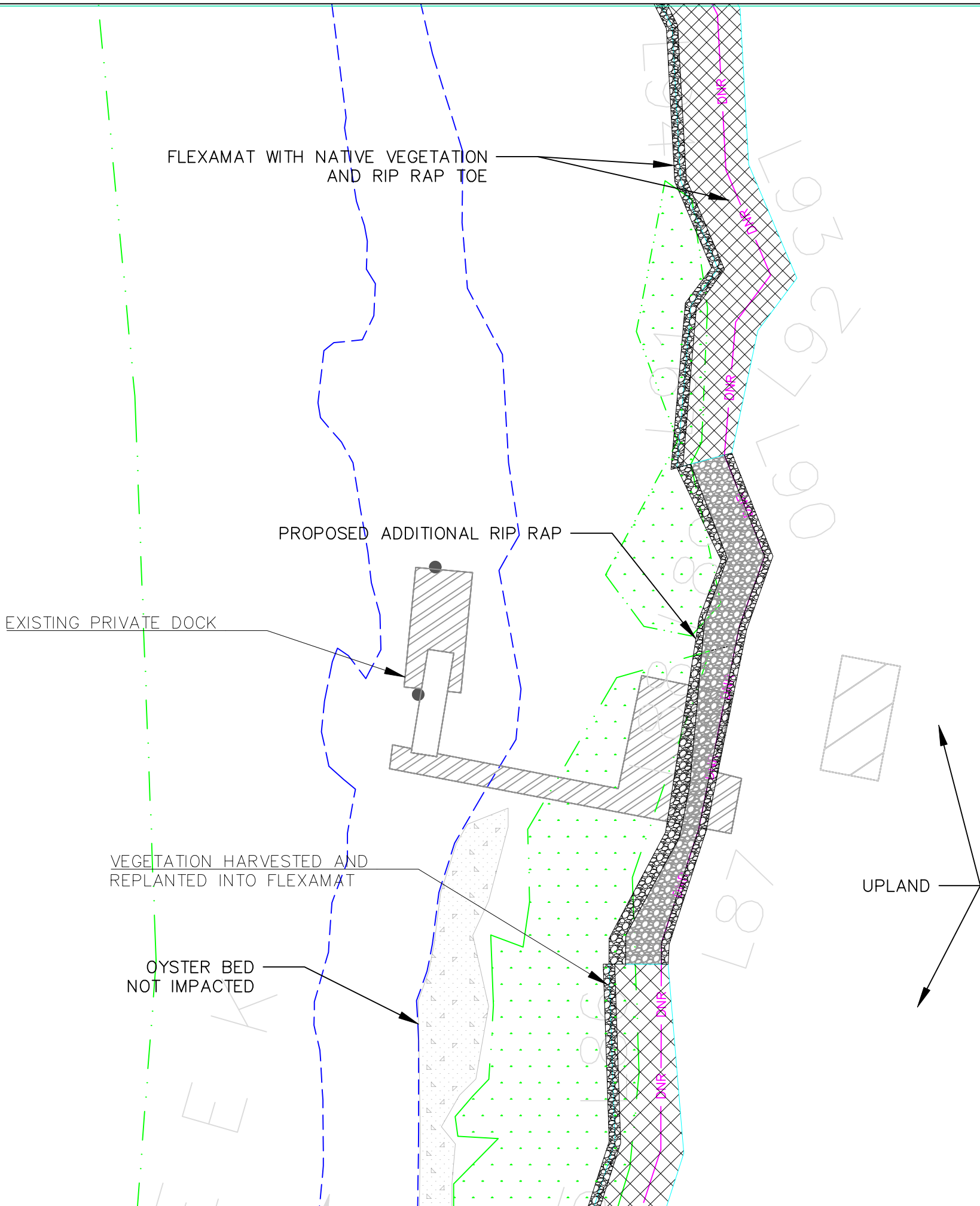
MARK AND KIM HANLEY

DATE: 9/21/2025

SCALE: 1":20' (FOR 11"X17" PLOT)

6D

SHEET:





## LEGEND

These standard symbols will be found in the drawing.

— · — · — EDGE OF MARSH VEGETATION

--- MEAN LOW WATER

— HIGH TIDE LINE/COMPA LINE

**FLEXAMAT**

 EROSIONAL SHORELINE

☒ STABLE SHORELINE

 EXISTING RIP RAP

 PROPOSED RIP RAP

## SHORELINE NOTES

1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
3. THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
4. VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
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5. MATERIAL QUANTITIES
  - FLEXAMAT: 693 LF (8,271 SF)
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  - SUPPLEMENTAL RIP RAP: 100 LF (311 SF)
  - EXISTING RIP RAP: 100 LF (414 SF)
6. IMPACTS TO CMPA JURISDICTION
  - FLEXAMAT: 693 LF (5,617.47 SF)
  - RIP RAP TOE: 693 LF (1,425 SF)
  - RIP RAP: 100 LF (725 SF)
  - TEMPORARY MARSH VEG IMPACTS: 1,595

NOT RELEASED  
FOR  
CONSTRUCTION

## NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

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PROPOSED STABILIZATION (1)

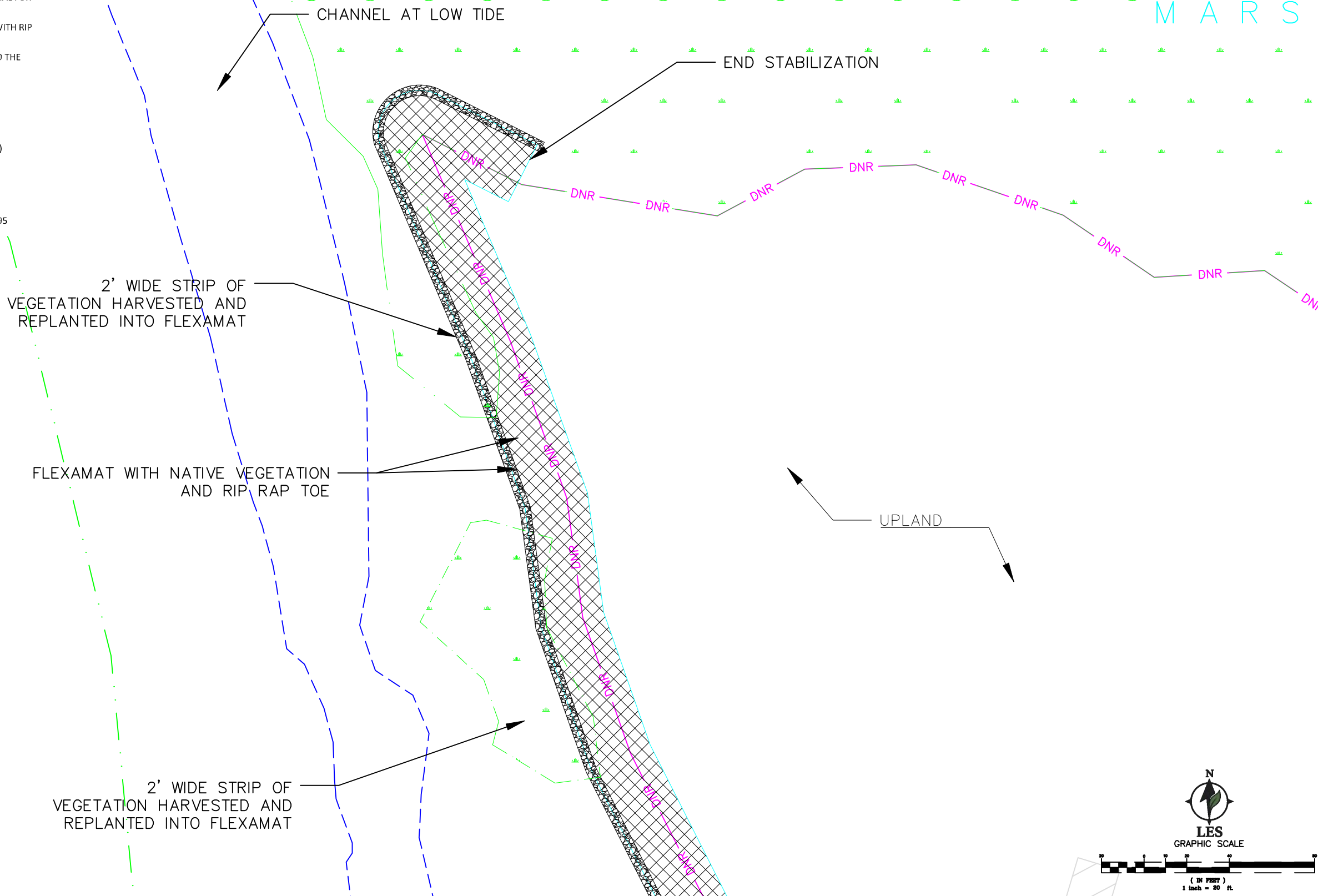
LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025

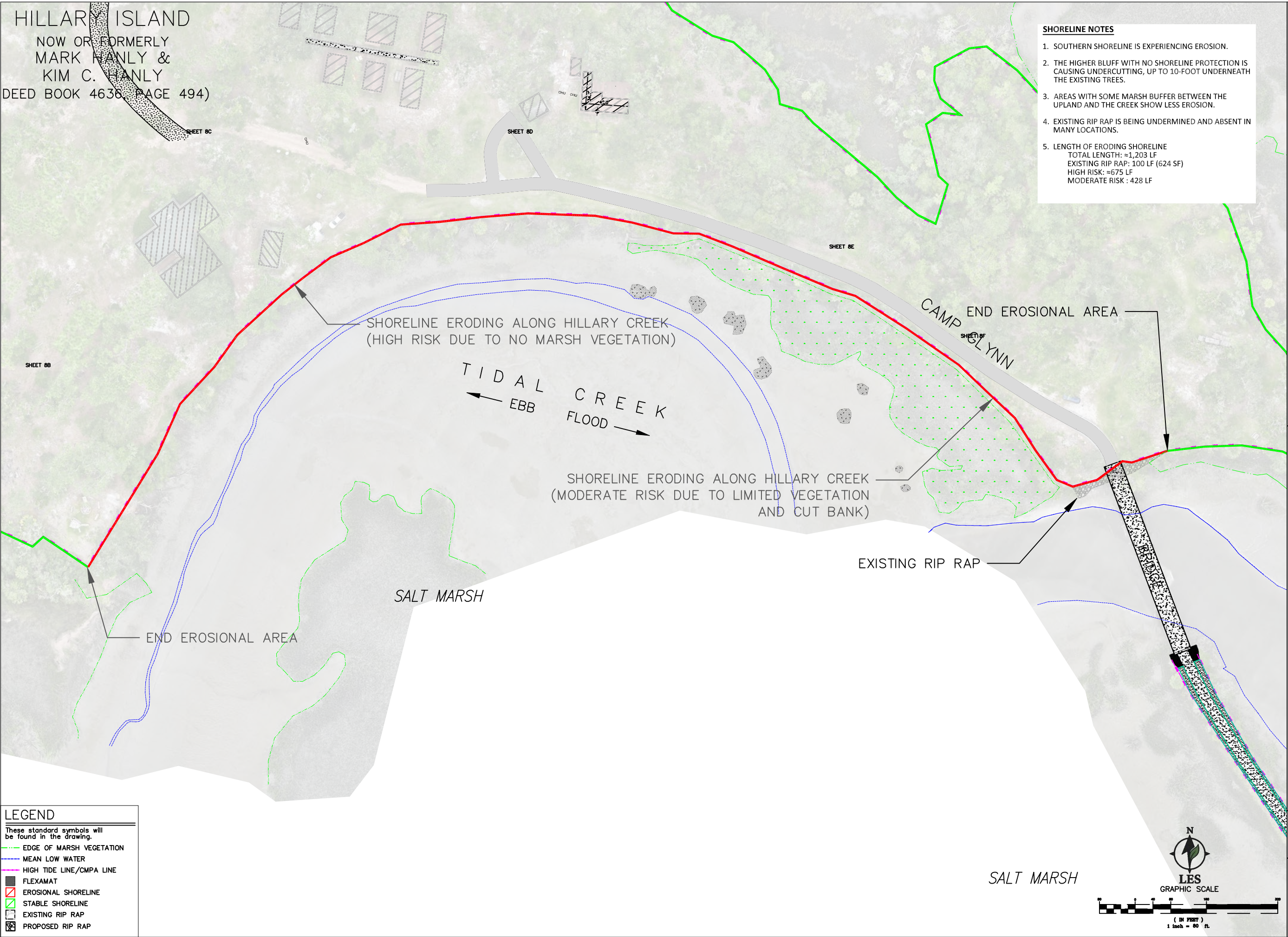
SCALE: 1":20' (FOR 11"X17" PLOT)

6E

SHEET:







HILLARY ISLAND  
NOW OR FORMERLY  
MARK HANLY &  
KIM C. HANLY  
DEED BOOK 4636, PAGE 494)

- SHORELINE NOTES**
1. SOUTHERN SHORELINE IS EXPERIENCING EROSION.
  2. THE HIGHER BLUFF WITH NO SHORELINE PROTECTION IS CAUSING UNDERCUTTING, UP TO 10-FOOT UNDERNEATH THE EXISTING TREES.
  3. AREAS WITH SOME MARSH BUFFER BETWEEN THE UPLAND AND THE CREEK SHOW LESS EROSION.
  4. EXISTING RIP RAP IS BEING UNDERMINED AND ABSENT IN MANY LOCATIONS.
  5. LENGTH OF ERODING SHORELINE  
TOTAL LENGTH: ≈1,203 LF  
EXISTING RIP RAP: 100 LF (624 SF)  
HIGH RISK: ≈675 LF  
MODERATE RISK : 428 LF

NOT RELEASED  
FOR  
CONSTRUCTION

- NOTES**
1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
  2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
  3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
  4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

SHORELINE EROSION (2)

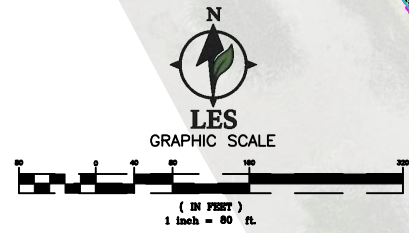
LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=80' (FOR 11"X17" PLOT)

7  
SHEET:

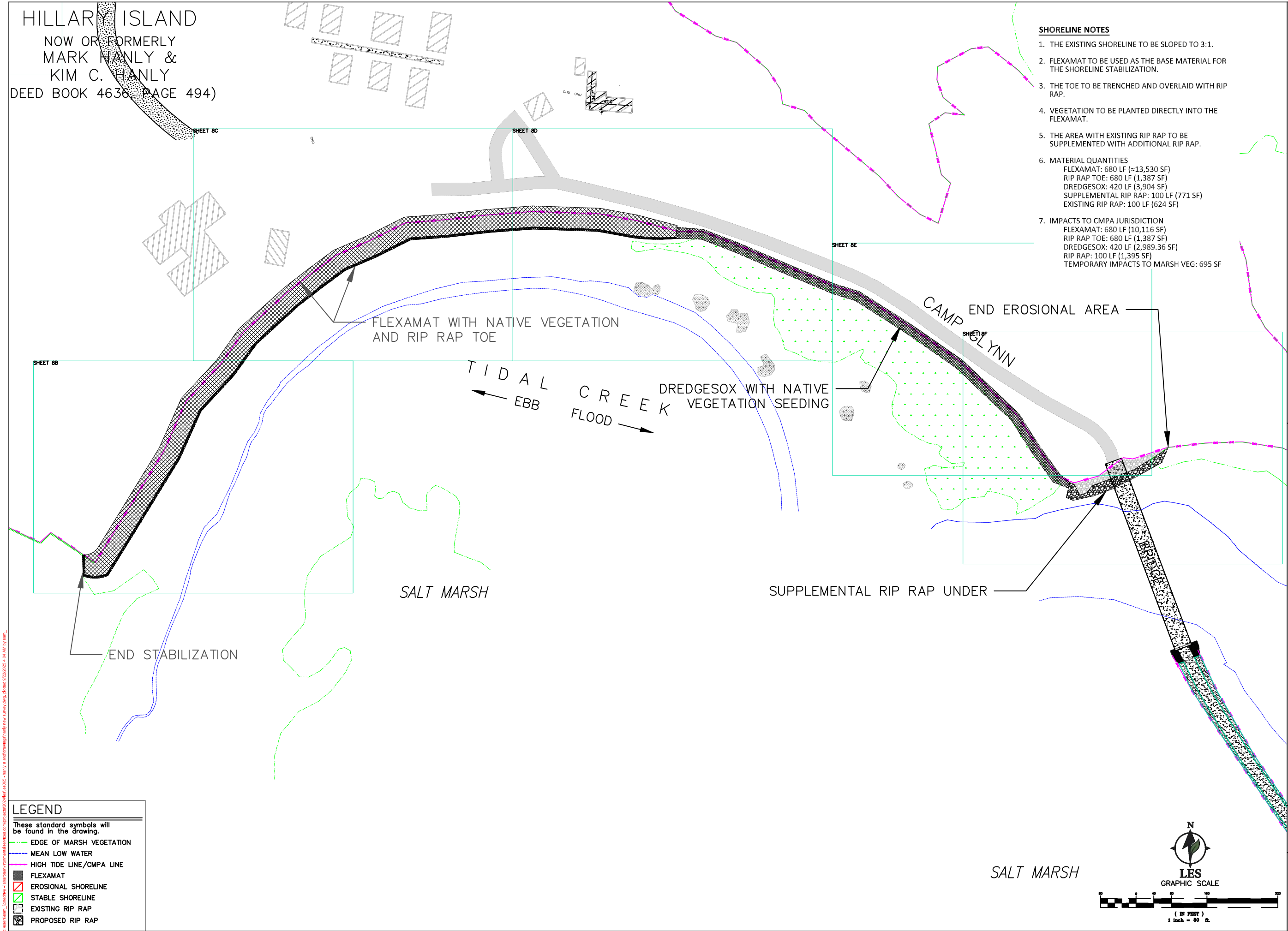
- LEGEND**
- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - HIGH TIDE LINE/CMFA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP



SALT MARSH



HILLARY ISLAND  
NOW OR FORMERLY  
MARK HANLY &  
KIM C. HANLY  
DEED BOOK 4636, PAGE 494)



- SHORELINE NOTES**
1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
  2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
  3. THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
  4. VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
  5. THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
  6. MATERIAL QUANTITIES  
FLEXAMAT: 680 LF (≈13,530 SF)  
RIP RAP TOE: 680 LF (1,387 SF)  
DREDGESOX: 420 LF (3,904 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (771 SF)  
EXISTING RIP RAP: 100 LF (624 SF)
  7. IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 680 LF (10,116 SF)  
RIP RAP TOE: 680 LF (1,387 SF)  
DREDGESOX: 420 LF (2,989.36 SF)  
RIP RAP: 100 LF (1,395 SF)  
TEMPORARY IMPACTS TO MARSH VEG: 695 SF

NOT RELEASED  
FOR  
CONSTRUCTION

- NOTES**
1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
  2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
  3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
  4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

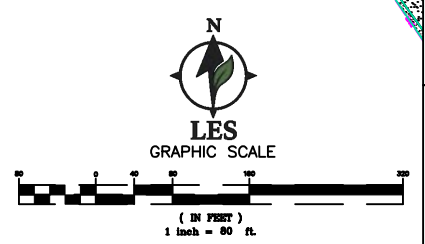
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=80' (FOR 11"X17" PLOT)

8

SHEET:

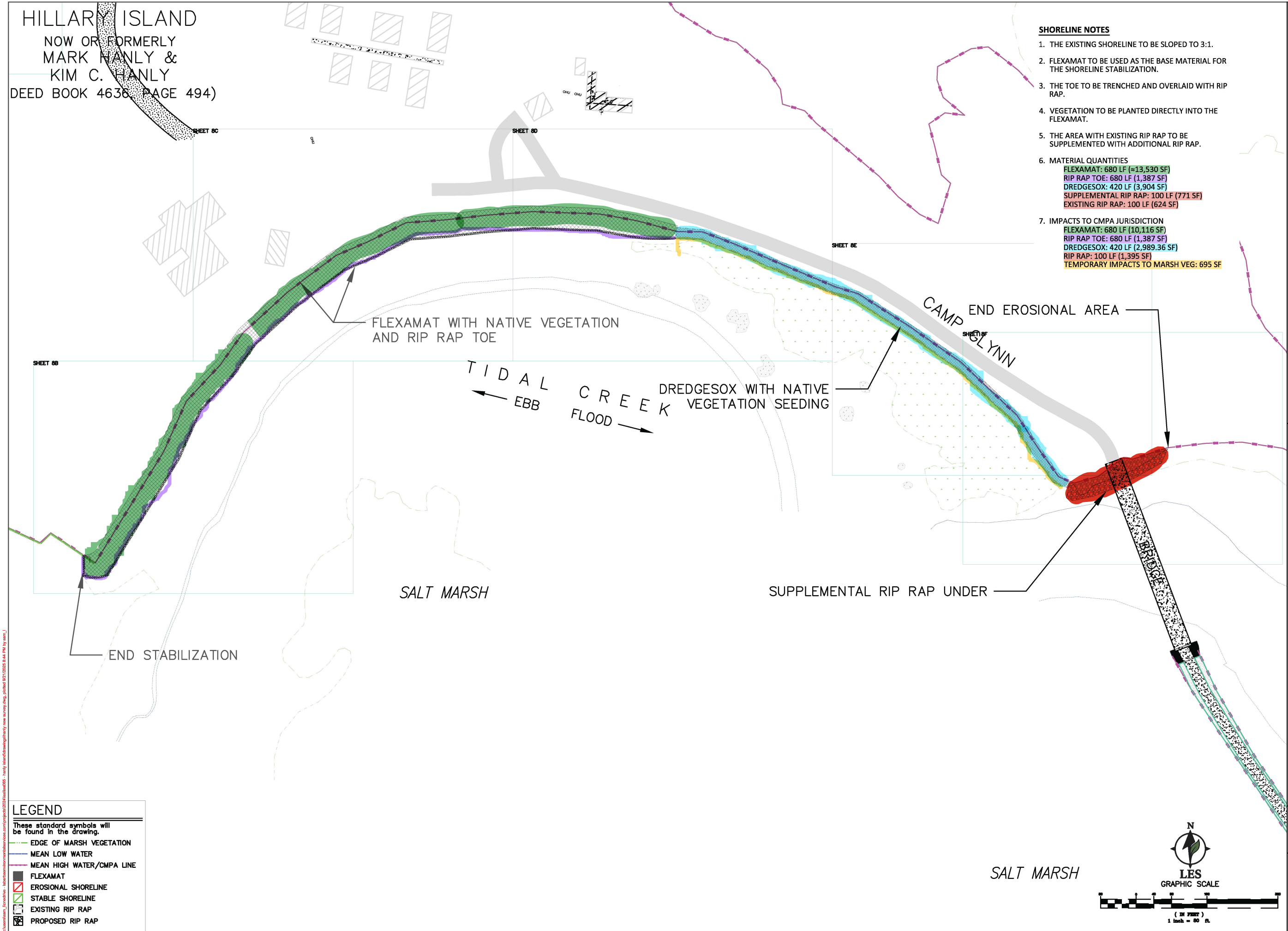
- LEGEND**
- These standard symbols will be found in the drawing.
- EDGE OF MARSH VEGETATION
  - MEAN LOW WATER
  - HIGH TIDE LINE/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP



SALT MARSH



HILLARY ISLAND  
NOW OR FORMERLY  
MARK HANLY &  
KIM C. HANLY  
DEED BOOK 4636, PAGE 494)



- SHORELINE NOTES**
1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
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RIP RAP TOE: 680 LF (1,387 SF)  
DREDGESOX: 420 LF (2,989.36 SF)  
RIP RAP: 100 LF (1,395 SF)  
TEMPORARY IMPACTS TO MARSH VEG: 695 SF

NOT RELEASED FOR CONSTRUCTION

**NOTES**

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

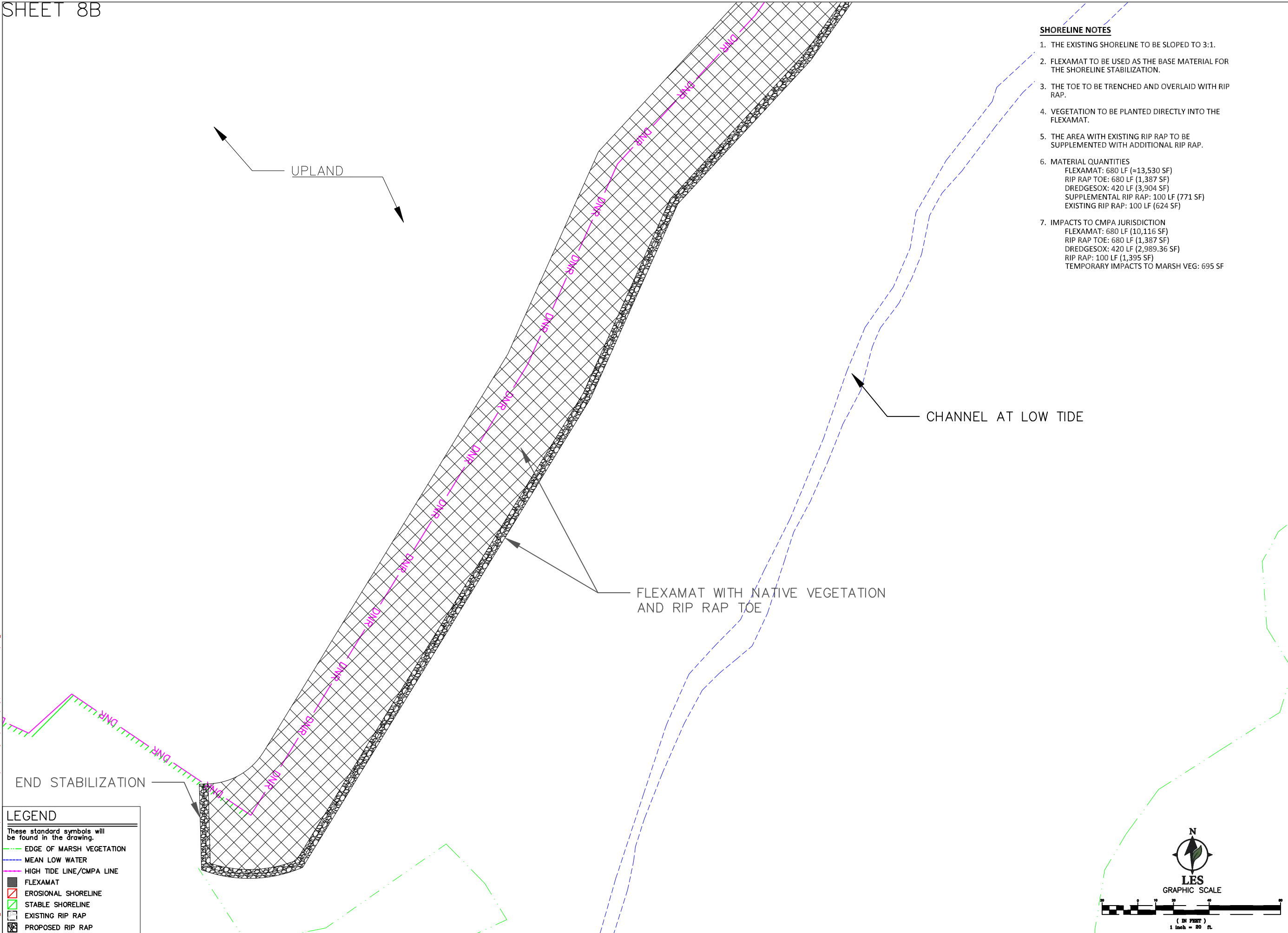
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025

SCALE: 1"=80' (FOR 11"x17" PLOT)

8

SHEET:



SHORELINE NOTES

1. THE EXISTING SHORELINE TO BE SLOPED TO 3:1.
2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
3. THE TOE TO BE TRENCHED AND OVERLAID WITH RIP RAP.
4. VEGETATION TO BE PLANTED DIRECTLY INTO THE FLEXAMAT.
5. THE AREA WITH EXISTING RIP RAP TO BE SUPPLEMENTED WITH ADDITIONAL RIP RAP.
6. MATERIAL QUANTITIES  
FLEXAMAT: 680 LF (≈13,530 SF)  
RIP RAP TOE: 680 LF (1,387 SF)  
DREDGESOX: 420 LF (3,904 SF)  
SUPPLEMENTAL RIP RAP: 100 LF (771 SF)  
EXISTING RIP RAP: 100 LF (624 SF)
7. IMPACTS TO CMPA JURISDICTION  
FLEXAMAT: 680 LF (10,116 SF)  
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DREDGESOX: 420 LF (2,989.36 SF)  
RIP RAP: 100 LF (1,395 SF)  
TEMPORARY IMPACTS TO MARSH VEG: 695 SF

NOT RELEASED  
FOR  
CONSTRUCTION

NOTES

1. AERIAL IMAGERY WAS OBTAINED 9/26/24.
2. BASE SURVEY PROVIDED BY SHUPE SURVEYING, DATED 4/14/25.
3. HOUSE LOCATION BASED ON DRAWINGS BY DAVID E. AMOS ARCHITECT, DATED 3/19/24.
4. TOPOGRAPHIC DATA WAS OBTAINED FROM GLYNN COUNTY GIS DEPARTMENT.

SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=20' (FOR 11"X17" PLOT)

8B

SHEET:

OHU

UPLAND

SHORELINE NOTES

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SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1"=20' (FOR 11"X17" PLOT)

8C

SHEET:

LEGEND

These standard symbols will be found in the drawing.

- EDGE OF MARSH VEGETATION
- MEAN LOW WATER
- HIGH TIDE LINE/CMPA LINE
- FLEXAMAT
- EROSIONAL SHORELINE
- STABLE SHORELINE
- EXISTING RIP RAP
- PROPOSED RIP RAP

N

LES  
GRAPHIC SCALE

( IN FEET )  
1 inch = 20 ft.

CHANNEL AT LOW TIDE

FLEXAMAT WITH NATIVE VEGETATION  
AND RIP RAP TOE

5.00'

21.00'

16.00'

43.19'



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CONSTRUCTION

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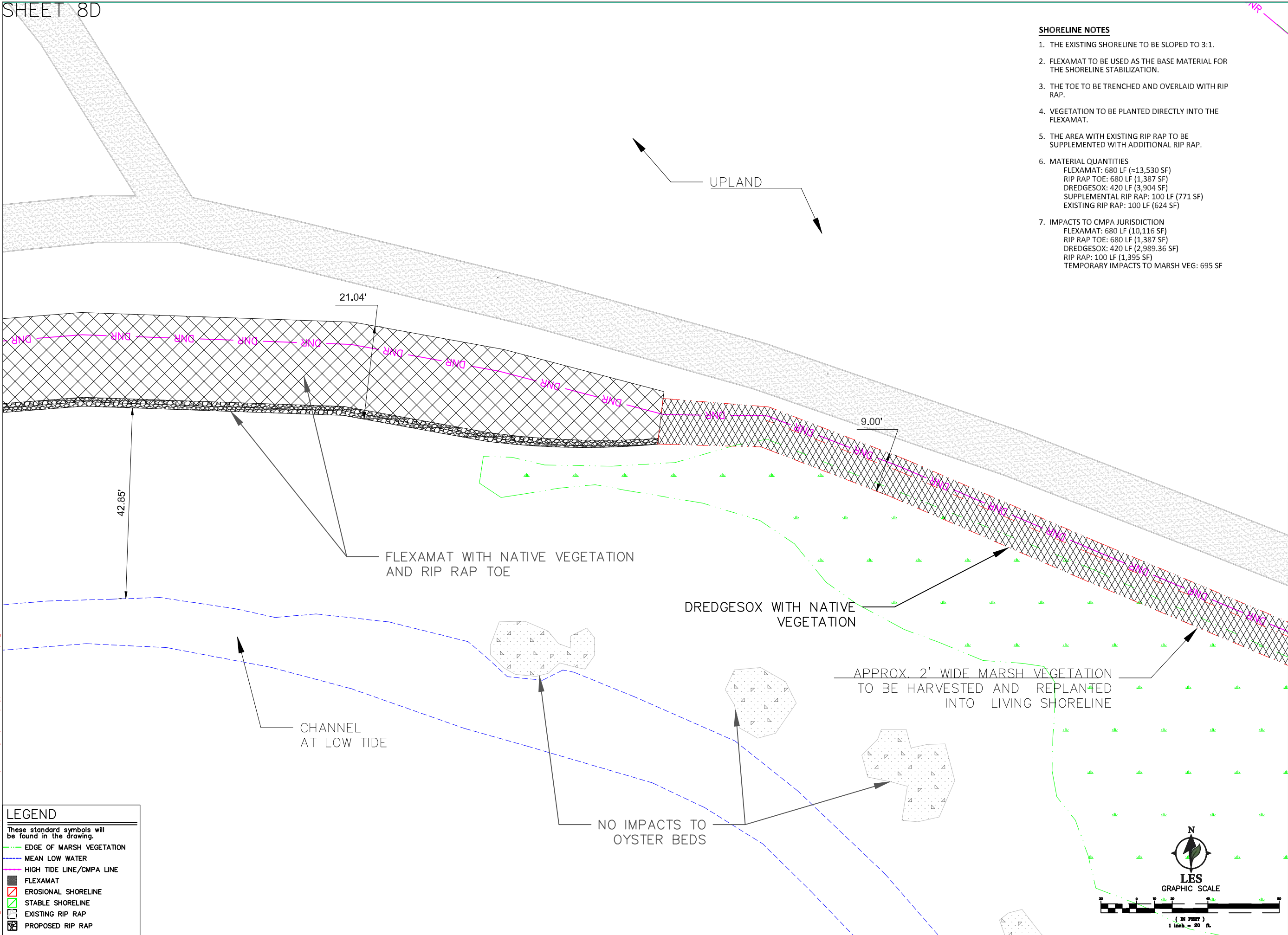
SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1":20' (FOR 11"x17" PLOT)

8D

SHEET:



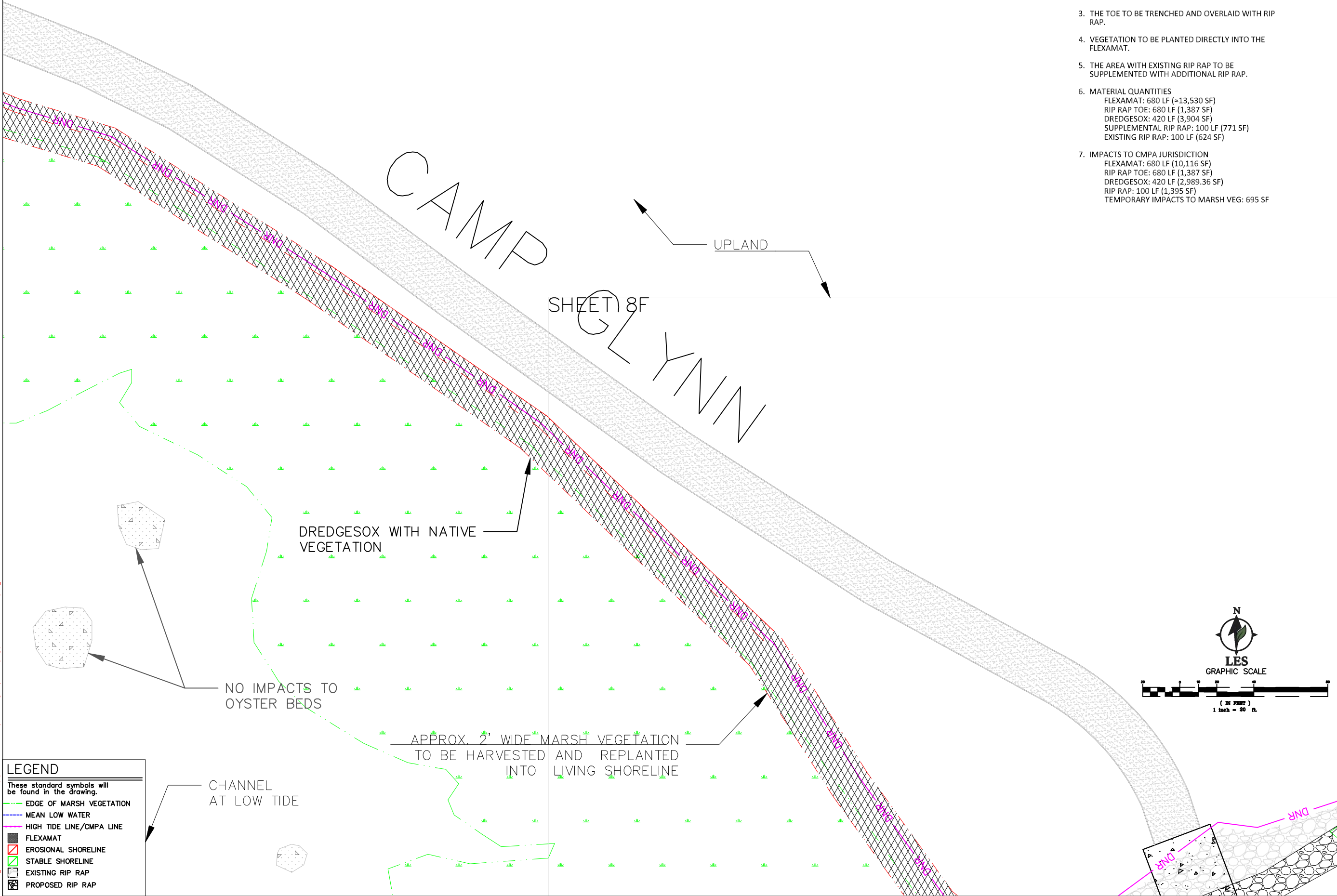
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LEGEND

- These standard symbols will be found in the drawing.
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  - MEAN LOW WATER
  - HIGH TIDE LINE/CMPA LINE
  - FLEXAMAT
  - EROSIONAL SHORELINE
  - STABLE SHORELINE
  - EXISTING RIP RAP
  - PROPOSED RIP RAP

SHORELINE EROSION (2)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
MARK AND KIM HANLY

DATE: 9/21/2025  
SCALE: 1":20' (FOR 11"x17" PLOT)

8E

SHEET:

SHEET 8F

DREDGESOX WITH NATIVE  
VEGETATION

APPROX. 2' WIDE MARSH VEGETATION  
TO BE HARVESTED AND REPLANTED  
INTO LIVING SHORELINE

UPLAND









– END STABILIZATION

SUPPLEMENTAL RIP RAP  
UNDER BRIDGE

- CHANNEL  
AT LOW TIDE

## LEGEND

These standard symbols will be found in the drawing.

-  EDGE OF MARSH VEGETATION  
 MEAN LOW WATER  
 HIGH TIDE LINE/CMPA LINE  
 FLEXAMAT  
 EROSIONAL SHORELINE  
 STABLE SHORELINE  
 EXISTING RIP RAP  
 PROPOSED RIP RAP

## SHORELINE NOTES

1. THE EXISTING SHORELINE TO BE SLOPED TO 2:1 - 3:1.
2. FLEXAMAT TO BE USED AS THE BASE MATERIAL FOR THE SHORELINE STABILIZATION.
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SHORELINE EROSION (2)

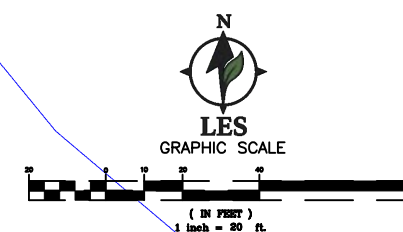
LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
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8F

SHEET:







- SHORELINE NOTES**
1. CAUSEWAY SHOWS SIGNS OF SUBSIDENCE, RATHER THAN EROSION.
  2. THE PRESENCE OF MARSH VEGETATION ALONG THE CAUSEWAY WILL LIMIT THE USE OF RIP RAP.
  3. RECOMMEND RAISING THE EXISTING CAUSEWAY RATHER THAN IMPLEMENTING SLOPE PROTECTION.
  4. EXISTING IMPACTS  
BULKHEAD: 172 SF  
BRIDGE: 2804 SF

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CONSTRUCTION

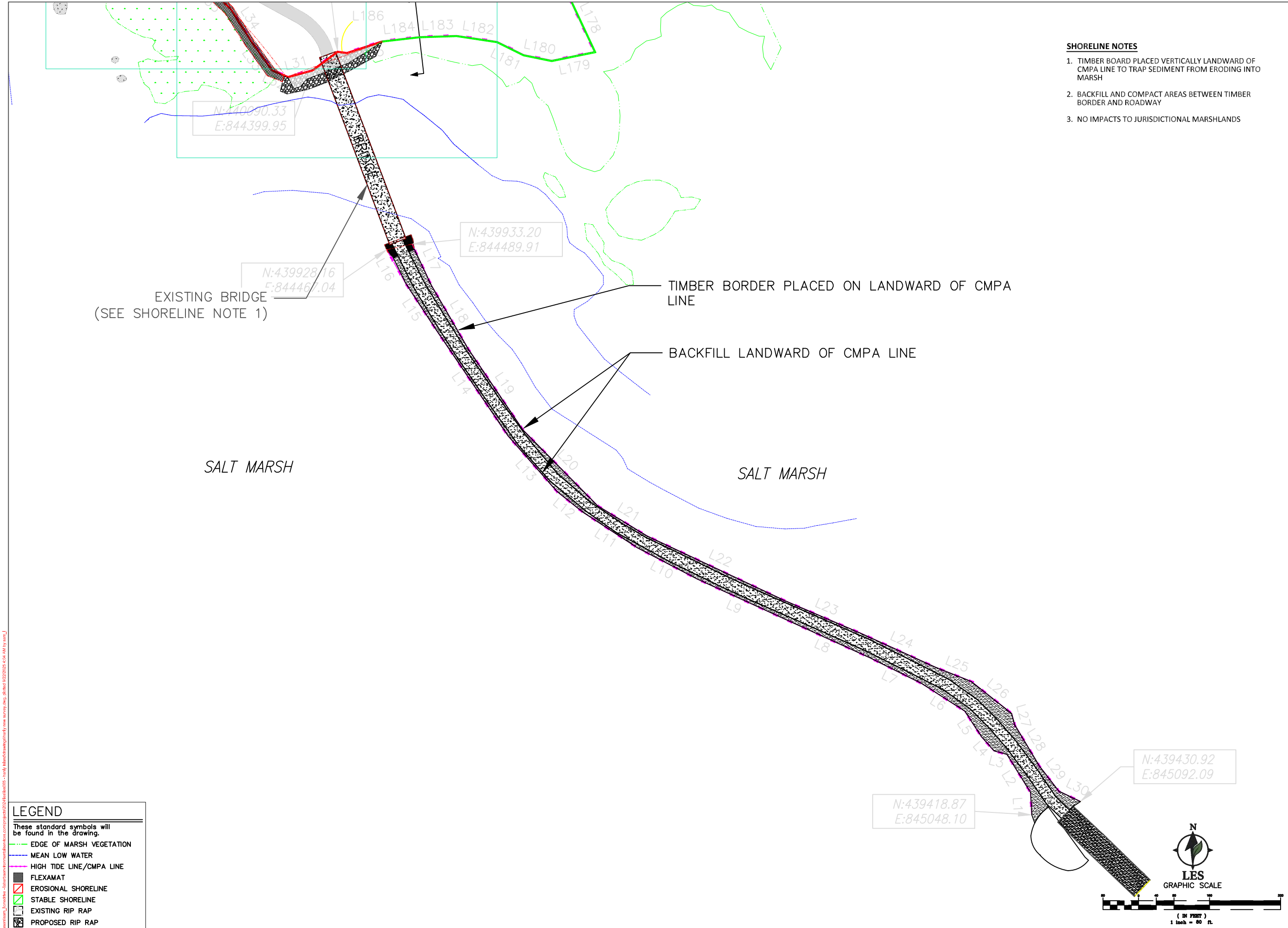
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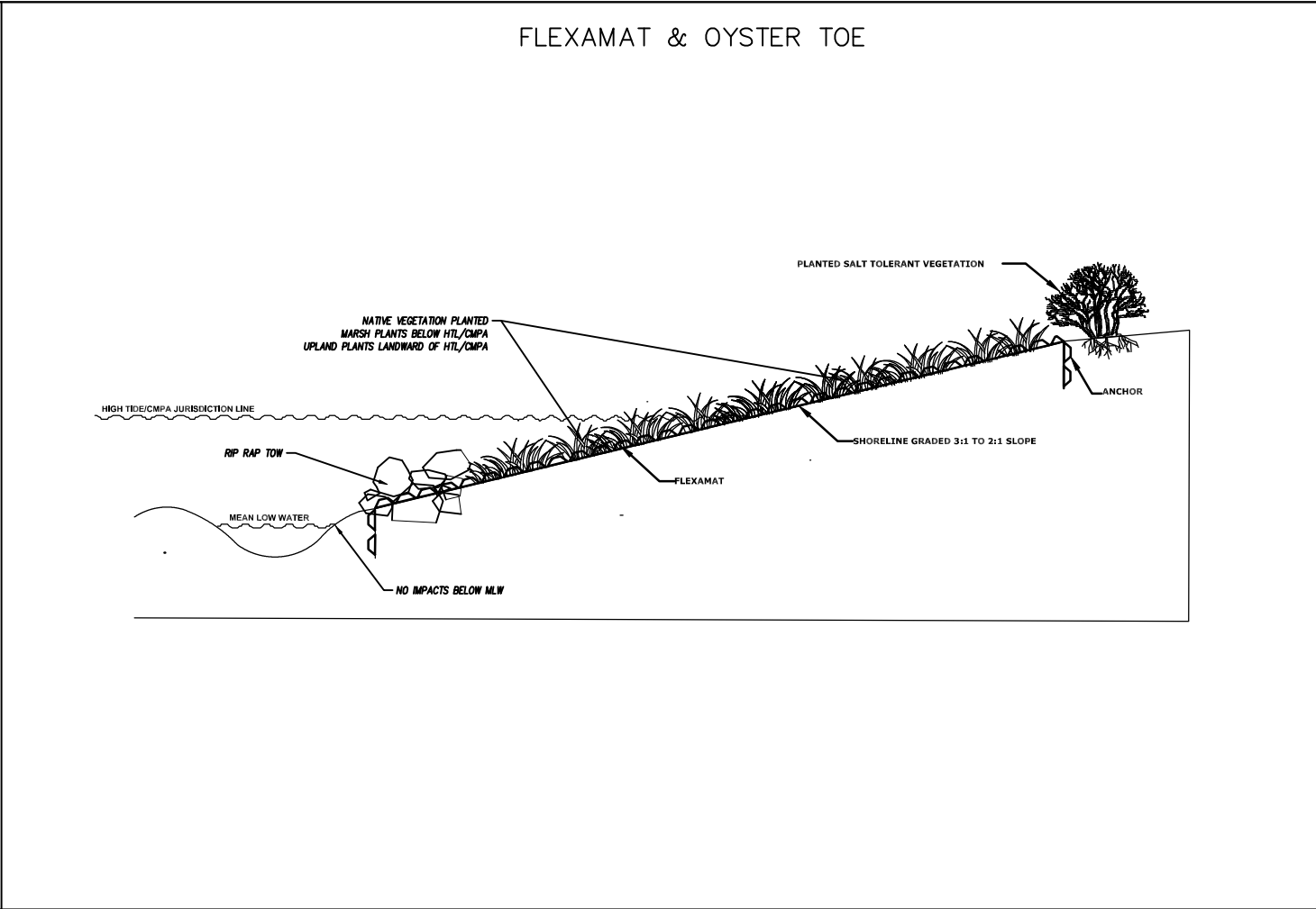
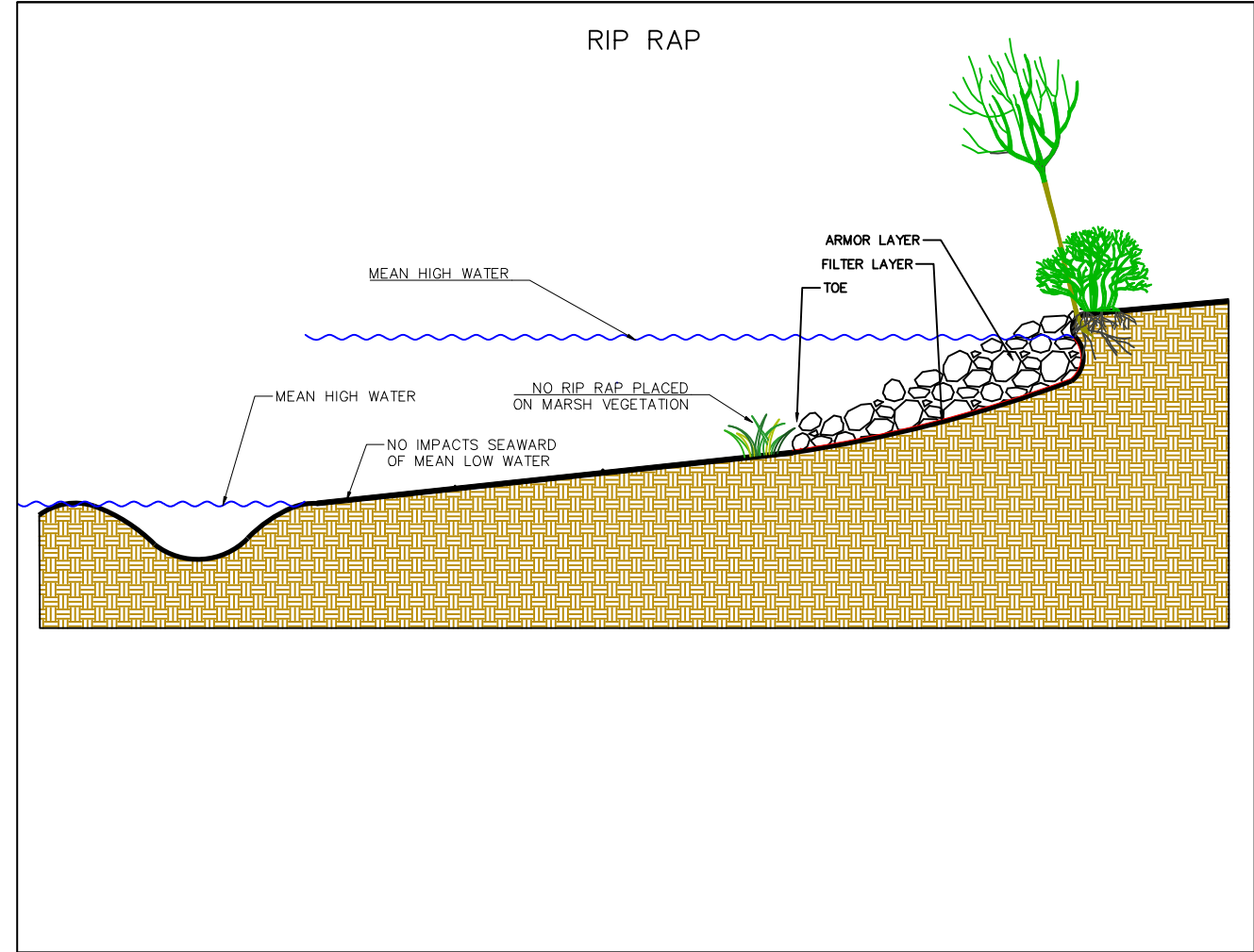
SHORELINE EROSION (3)

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA

PREPARED FOR:  
MARK AND KIM HANLY

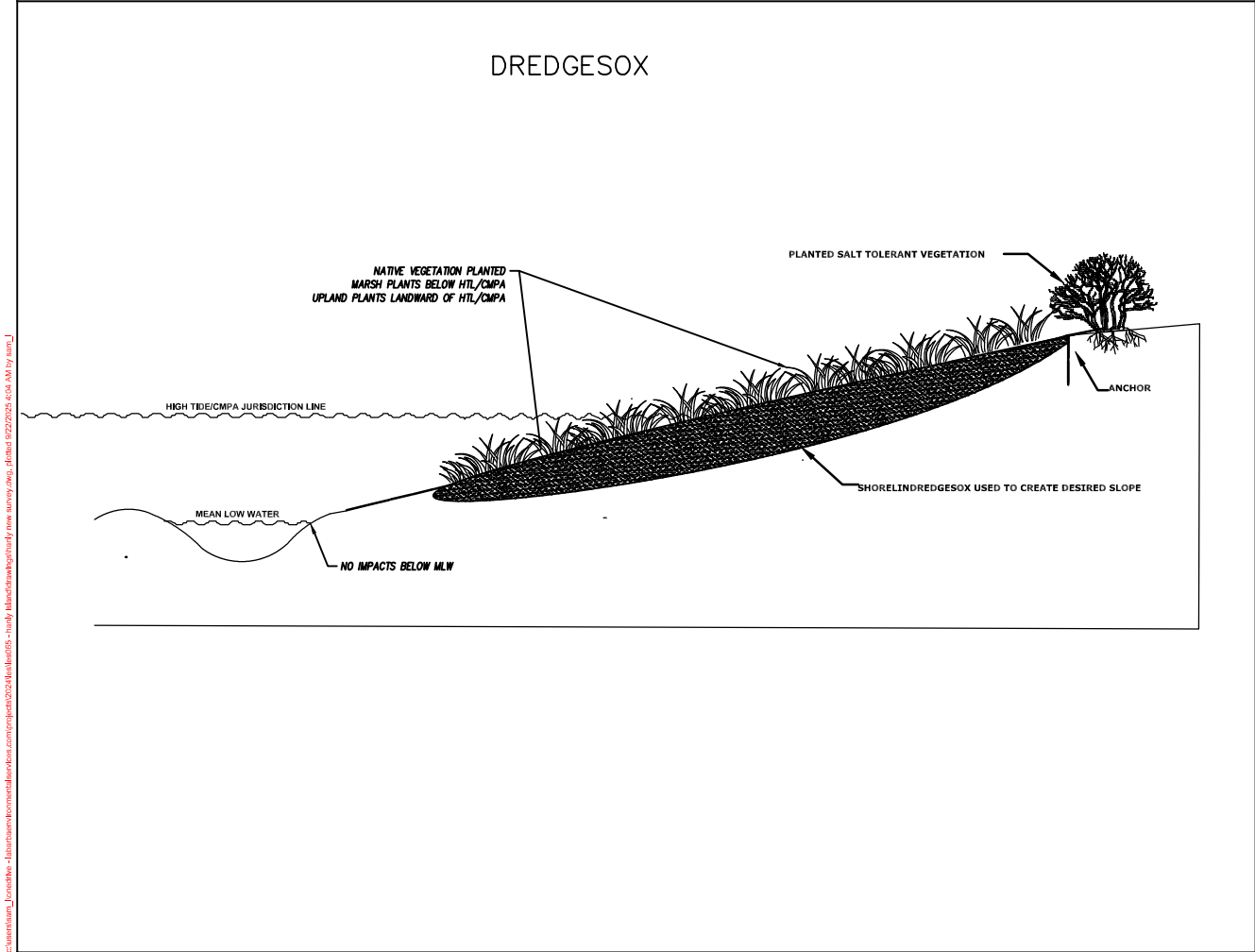
DATE: 9/21/2025  
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NOTES



TYPICAL PROFILES

LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
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DATE: 9/21/2025  
SCALE: NTS (FOR 11"x17" PLOT)

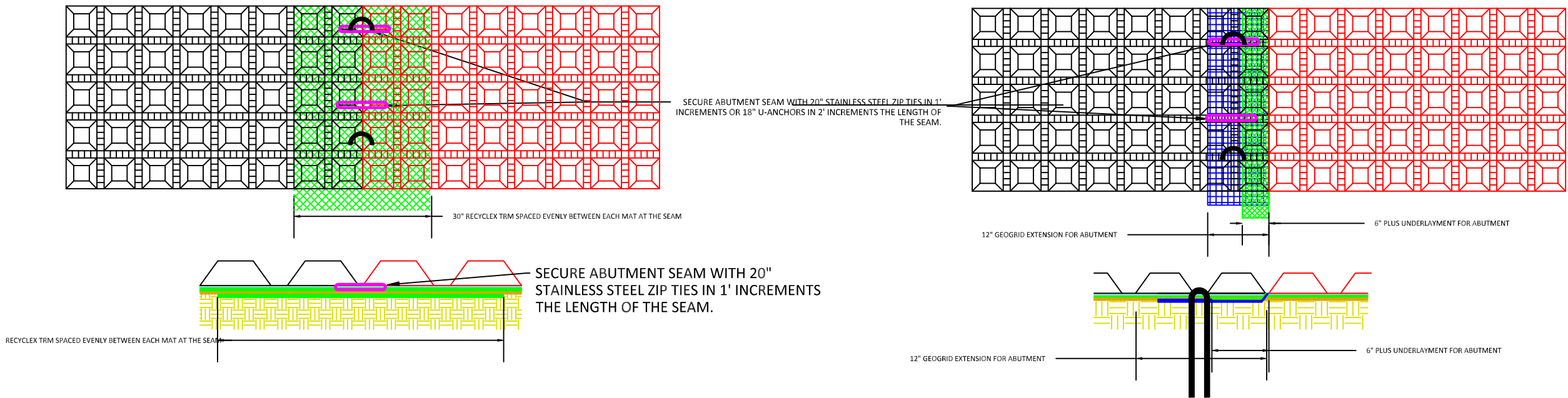
11

SHEET:

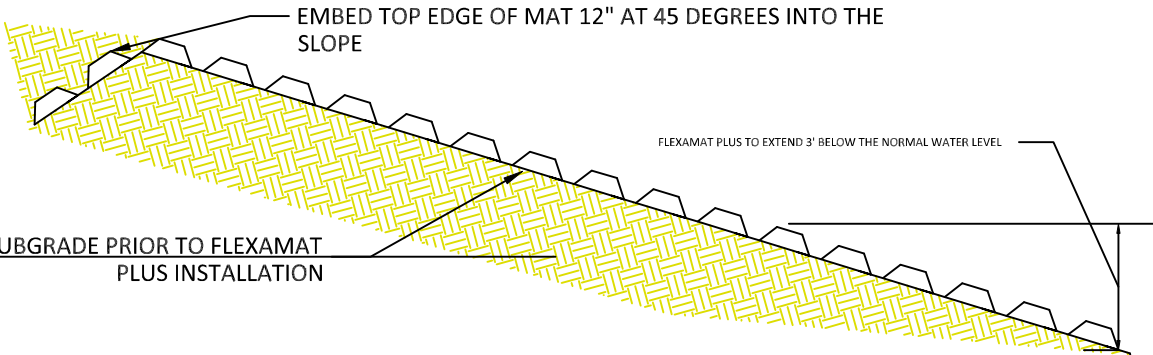


ABUTMENT METHOD FOR SHORELINE WIDTH LESS THAN 16'

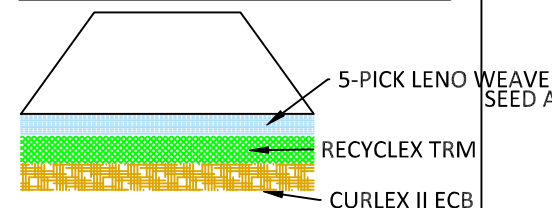
ABUTMENT METHOD FOR SHORELINE WIDTH GREATER THAN 16'



PROFILE VIEW OF SLOPE AND ANCHOR TRENCH



FLEXAMAT PLUS UNDERLAYMENT



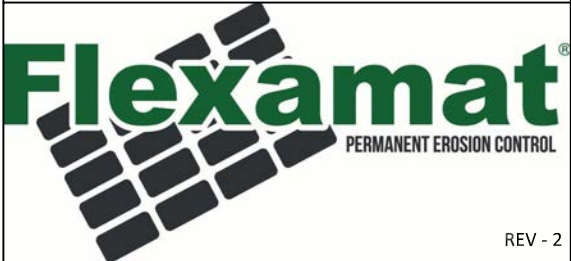
FLEXAMAT PLUS - SHORELINE ARMORING

CONSTRUCTION NOTES:

1. AN ENGINEER OR MANUFACTURES REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
3. PRIOR TO FLEXAMAT PLUS INSTALLATION, SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. .
4. INSTALL FLEXAMAT PLUS ROLLS, MATS SHALL BE CONTINUOUS FOR ENTIRE LENGTH OF SLOPE.
  - 4.1. MATTING SHALL EXTEND 3' BELOW ORDINARY WATER LEVEL.
5. AT MAT ABUTMENT SEAMS, INSTALL RECYCLEX TRM SEAMS EVENLY UNDER EACH MAT.
6. SECURE ABUTMENT SEAMS IN 2' INCREMENTS USING STAINLESS STEEL ZIP TIES OR #3 REBAR - 18" U-ANCHORS. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GRID OF EACH ABUTTING MAT OR GEOGRID EXTENSION. U-ANCHORS SHALL ENCOMPASS 2 CORDS OF GEOGRID OF EACH ABUTTING MAT OR GEOGRID EXTENSIONS.
7. AT THE BEGINNING AND END OF THE SHORELINE PROTECTION, EMBED THE MAT 18" PAST THE ANTICIPATED SCOUR POINT. FILL AND COMPACT TERMINATION TRENCH WITH COHESIVE SOIL.
8. RECESS TOP TWO BLOCKS OF MAT INTO THE SLOPE.

MOTZ  
ENTERPRISES, INC.

Flexamat  
(513)772-6689  
Info@Flexamat.com  
Flexamat.com



REV - 2

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CONSTRUCTION

NOTES

FLEXAMAT  
LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA  
PREPARED FOR:  
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DATE: 9/21/2025  
SCALE: NTS (FOR 11"x17" PLOT)

12

SHEET:



**LABARBA ENVIRONMENTAL SERVICES  
BRUNSWICK, GA**

**PREPARED FOR:  
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users/sam\_jonodrive-labartsenvironmentalservices.com/projects/2024/jes/eq055 - hartly BlandDrawings/hardy\_new\_survey.dwg, plotted 8/22/2025 4:04 AM by sam\_j