

# PROPOSED BEACH REPLENISHMENT, BREAKWATER REPAIRS, NEW WAVE SCREENS AND PLANTINGS

1. WEST BEACH: TO EMPLACE APPROX. 215 CY OF CLEAN SAND AS BEACH REPLENISHMENT (AVULSION) AND GRADE AS REQUIRED AT THE LANDWARD OF THE MHWL (CURRENT AND PROPOSED) TO THE HISTORIC MHWL (2014 PER MDE) TO EMPLACE APPROXIMATELY 65 CY OF CLEAN SAND AS BEACH REPLENISHMENT AND GRADE AS REQUIRED LANDWARD OF THE HISTORIC MHWL (2014 PER MDE).

EAST BEACH: TO EMPLACE APPROX. 272 CY OF CLEAN SAND AS BEACH REPLENISHMENT (AVULSION) AND GRADE AS REQUIRED TO A MAXIMUM OF 25 FT. CHANNELWARD OF THE MHWL (CURRENT) AND LANDWARD OF THE HISTORIC MHWL (2014 PER MDE). TO EMPLACE APPROXIMATELY 690 CY OF CLEAN SAND AS BEACH REPLENISHMENT (AVULSION) AND GRADE AS REQUIRED LANDWARD OF THE MHWL (CURRENT) TO THE UPLAND/BEACH INTERFACE.

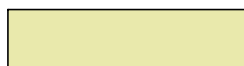
2. INSTALL STONE RIP-RAP ON 5 ENDS OF EXISTING BREAKWATERS TO REDUCE THE OPENING WIDTHS.
3. TO REPAIR 3 EXISTING STONE BREAKWATERS THAT HAVE SUBSIDED VARYING FROM 6" TO 12". ADD ADDITIONAL STONE TO BRING THEM TO THE ORIGINAL ELEVATION OF +4' MLW MATCHING THE OTHER STRUCTURES.
4. INSTALL 2 STONE WAVE SCREENS OUTSIDE OF THE EXISTING BREAKWATER OPENINGS. THE PROPOSED WAVE SCREENS WILL BE +4' MLW IN ELEVATION, 16' WIDE AND BOTH WILL BE 50' LONG. THE SITE HAS A 17 MILE FETCH TO THE NORTHEAST WHEN STRONG WINDS AND HIGH TIDES COME FROM THAT DIRECTION THE WAVES COME DIRECTLY INTO THE BEACH AND CAUSES BEACH EROSION.
5. INSTALL ON THE SOUTH EDGE OF THE PROPERTY ON THE EX. STONE RIP RAP ADDITIONAL STONE 2' HIGH WITH AN INTERNAL LAYER OF FILTER CLOTH TO ACT AS A BARRIER TO PREVENT SAND FROM MIGRATING TO THE NEIGHBOR'S PROPERTY. IN ADDITION, INSTALL A 5' WIDE BY 125' LONG STRIP OF AMERICAN BEACH GRASS. IT IS A DUNE GRASS TO FILTER SAND.
6. TO INSTALL A SAND TOMBOLO BEHIND THE SMALL BREAKWATER IT SHALL BE +3' MLW X 53.5' WIDE X 82' LONG. THIS WILL BE A CONTROLLED PLACEMENT OF 330 CY OF CLEAN SAND TO BE USED AS ACCESS TO CONSTRUCT THE OFFSHORE WAVE SCREENS AND WHEN THAT WORK IS COMPLETED THE TOMBOLO WILL REMAIN IN PLACE.
7. MAINTAIN FOUR (4) EXISTING WARNING SIGNS ON 4X4 POSTS SAYING "KEEP OFF ROCKS"

## LEGEND

----- ① ----- EX. BOTTOM CONTOURS

----- ② ----- EXISTING CONTOURS

 EXISTING STONE BREAKWATERS

 EXISTING SAND BEACH

----- · · · · · ----- EXISTING MHWL (MEAN HIGH WATER LINE)

----- · · · · · ----- EXISTING 0 MLW (0 MEAN LOW WATER)

 PROPOSED BEACH CONTOURS

----- · · · · · ----- HISTORIC MHWL 2014

 ADDITIONAL STONE TO REDUCE THE WINDOW

 ADDITIONAL STONE TO RAISE THE ELEV. TO +4

 PROPOSED STONE WAVE SCREEN

 PROPOSED AMERICAN BEACH GRASS PLANTINGS

 PROPOSED TOMBOLO

OWNER : HERRINGTON HARBOUR INC.  
MAILING ADDRESS: 7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714  
SITE ADDRESS: 7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714

MAP: 82 GRID: 20 PARCEL: 17 12.87 AC  
SUBDIVISION : 692  
DEED REFERENCE: 03062 / 00239  
DISTRICT - 08 ACCOUNT NUMBER - 01435000  
ZONING: MB CRITICAL AREA -IDA

## PROPOSED WORK DESCRIPTION

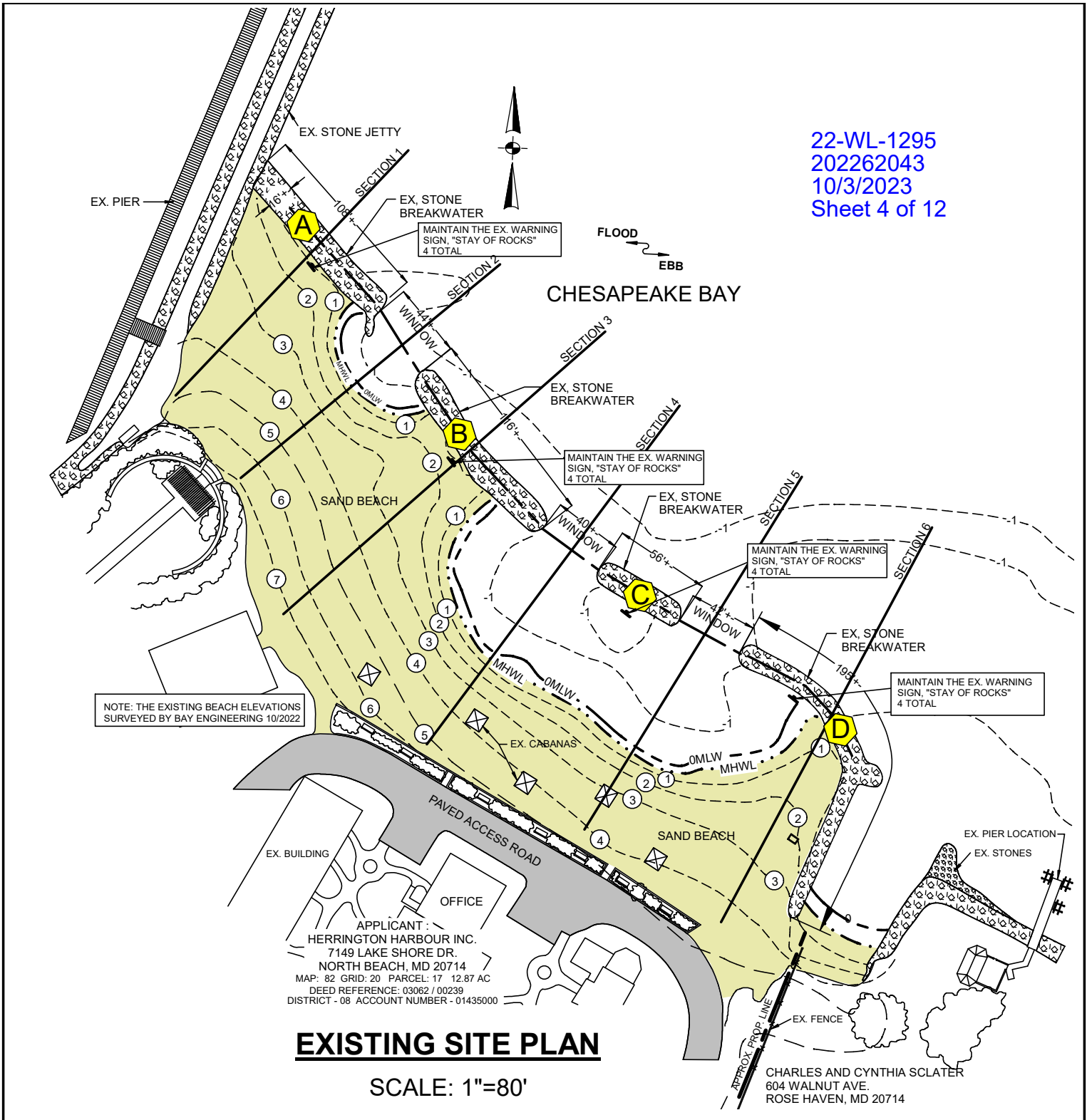
**Doldon W. Moore & Associates, LLC**  
Cell: 443-771-2374  
Tidal Wetlands Consultant and Facilitator  
P.O. Box 1  
Owings, MD 20736  
Email: [dwmooejr@verizon.net](mailto:dwmooejr@verizon.net)  
Consulting Services, Permit Facilitation, Project Management, Aquaculture, Habitat Restoration, Expert Testimony

### NOTES:

1. TIDAL WATERS, TIDE RANGE IS +1.0', MAX. DIST. FROM MHW IS 140'
2. ELEVATIONS BASED ON 0 MLW MEASURED FROM A DNR TIDE BOARD LOCATED AT THE NORTH BEACH BOAT RAMP AND A TOPO SURVEY BY BAY ENGINEERING INC.
3. PROPOSED WORK: FOR A FULL WORK DESCRIPTION SEE SHEET 3.
4. ALL ACCESS IS BY LAND AND WATER.
5. THIS DRAWING IS FOR OUTLINE PURPOSES ONLY.
6. DRAWN BY: FRED BEDELL

IN: CHESAPEAKE BAY  
TOWN: ROSE HAVEN  
COUNTY: ANNE ARUNDEL  
STATE: MARYLAND  
APPL. BY: HERRINGTON HARBOUR INC  
7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714  
DATE: REV. 5/15/23  
DRAWING 3

22-WL-1295  
 202262043  
 10/3/2023  
 Sheet 4 of 12



OWNER : HERRINGTON HARBOUR INC.  
 MAILING ADDRESS: 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714  
 SITE ADDRESS: 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714

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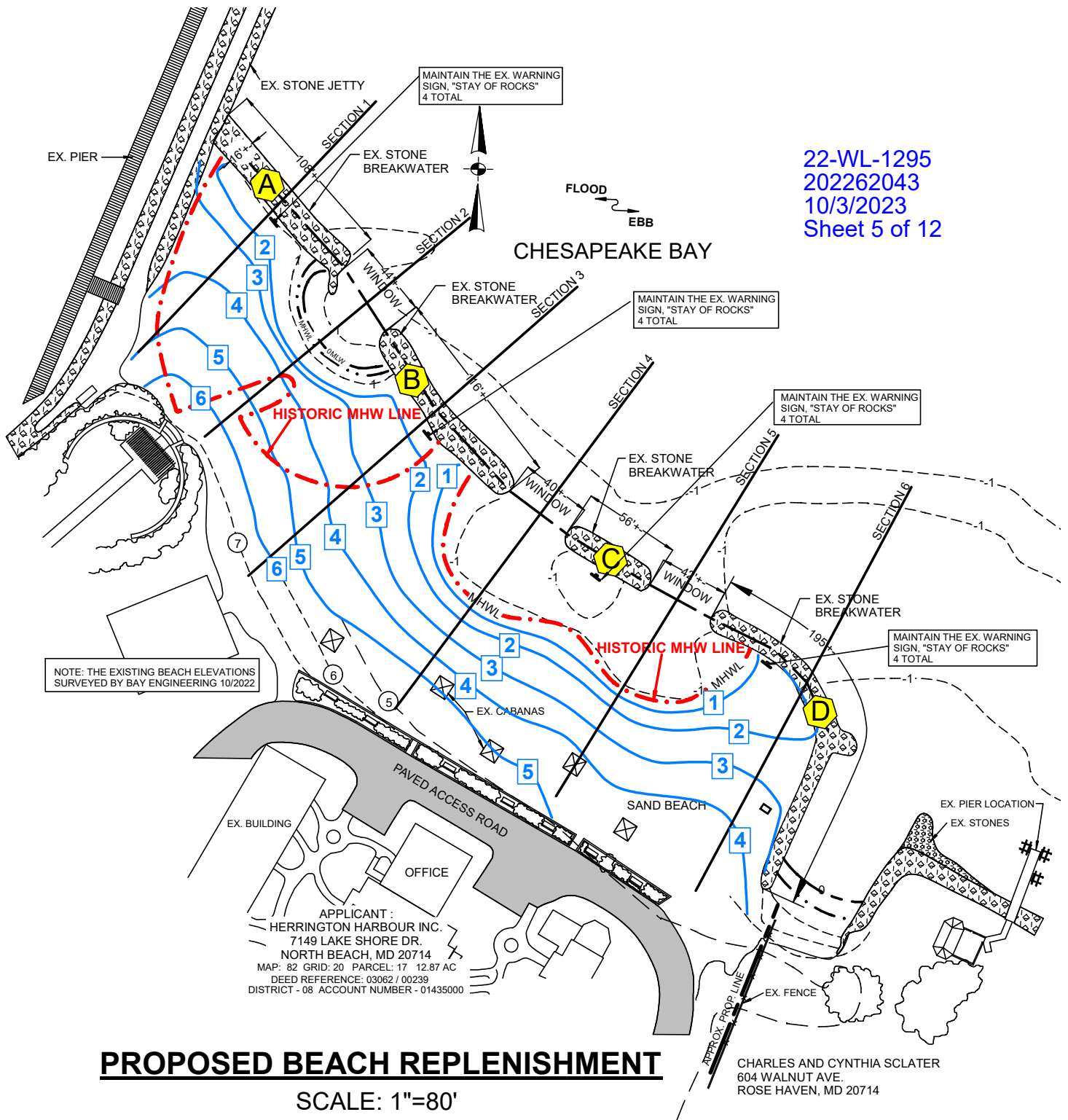
## EXISTING SITE PLAN

**Doldon W. Moore & Associates, LLC**  
 Cell: 443-771-2374  
 Tidal Wetlands Consultant and Facilitor  
 P.O. Box 1  
 Owings, MD 20736  
 Email: dwmoorej@verizon.net  
 Consulting Services, Permit Facilitation,  
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 Habitat Restoration, Expert Testimony

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 DRAWING 4

22-WL-1295  
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 10/3/2023  
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**PROPOSED BEACH REPLENISHMENT**

SCALE: 1"=80'

CHARLES AND CYNTHIA SCLATER  
 604 WALNUT AVE.  
 ROSE HAVEN, MD 20714

APPLICANT :  
 HERRINGTON HARBOUR INC.  
 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714  
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 DEED REFERENCE: 03062 / 00239  
 DISTRICT - 08 ACCOUNT NUMBER - 01435000

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 NORTH BEACH, MD 20714

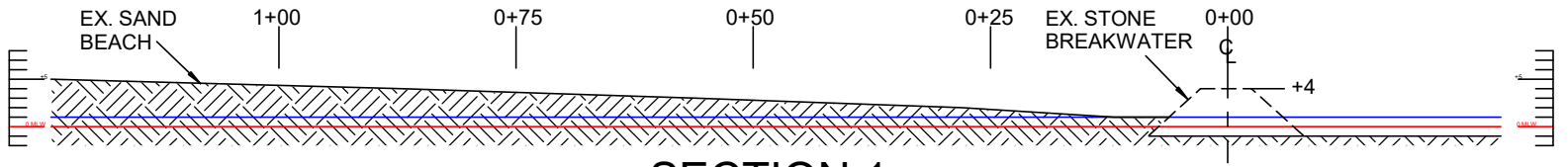
MAP: 82 GRID: 20 PARCEL: 17 12.87 AC  
 SUBDIVISION : 692  
 DEED REFERENCE: 03062 / 00239  
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**PROPOSED  
 BEACH  
 REPLENISHMENT**

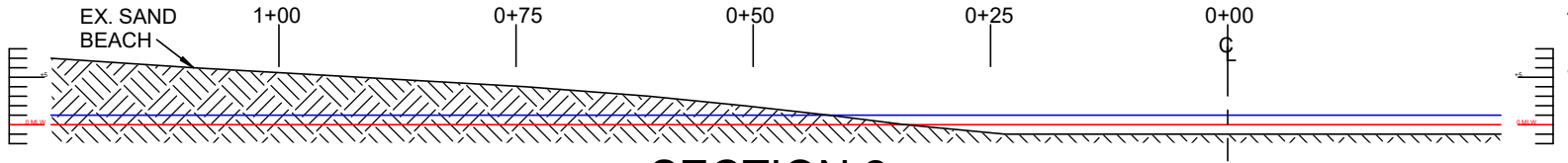
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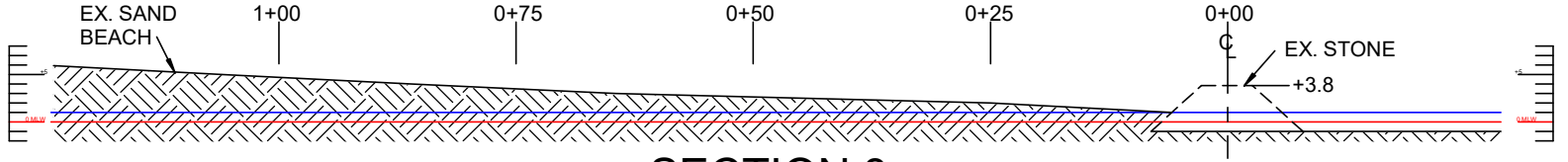
IN: CHESAPEAKE BAY  
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 COUNTY: ANNE ARUNDEL  
 STATE: MARYLAND  
 APPL. BY: HERRINGTON  
 HARBOUR INC  
 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714  
 DATE: REV. 5/15/23  
 DRAWING 5



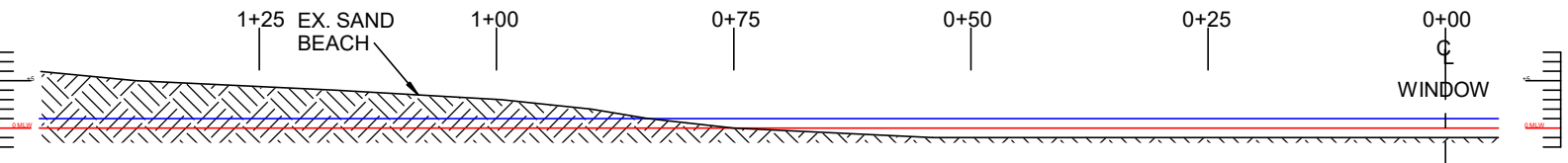
**SECTION 1**



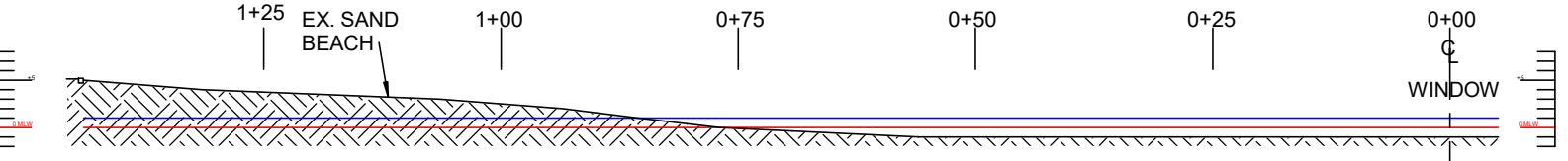
**SECTION 2**



**SECTION 3**



**SECTION 4**



**SECTION 5**

SCALE: 1"=20'

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**Doldon W. Moore & Associates, LLC**  
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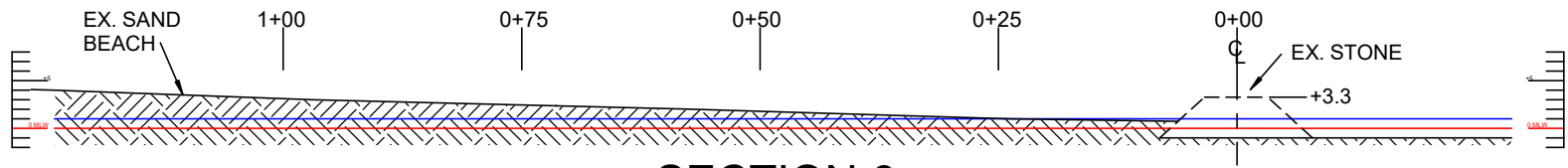
OWNER : HERRINGTON HARBOUR INC.  
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**EXISTING BEACH SECTIONS 1 TO 5**

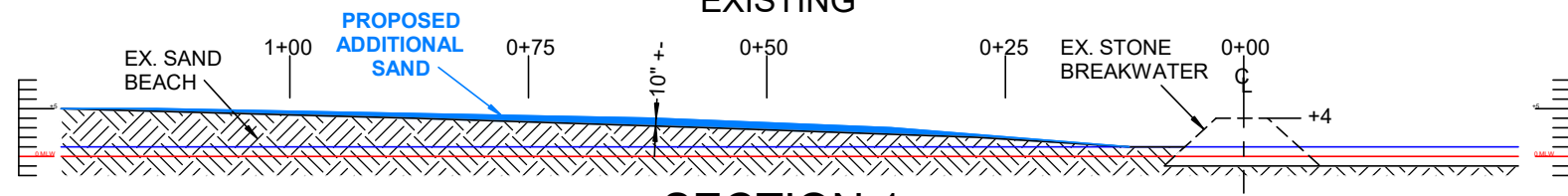
NOTE: THE EXISTING BEACH ELEVATIONS SURVEYED BY BAY ENGINEERING 10/2022

IN: CHESAPEAKE BAY  
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STATE: MARYLAND  
APPL. BY: HERRINGTON HARBOUR INC  
7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714

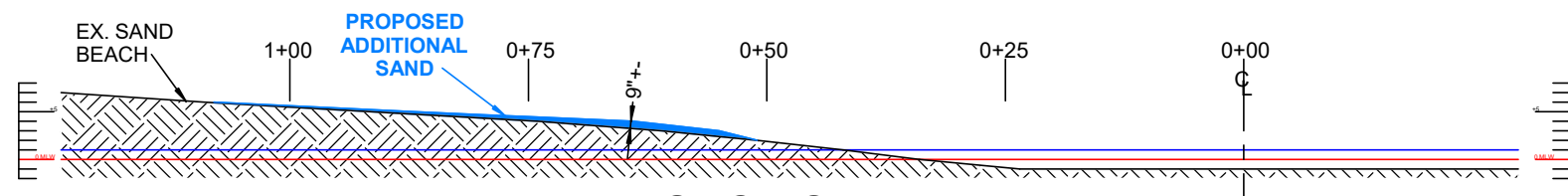
DATE: REV. 5/15/23 DRAWING 6



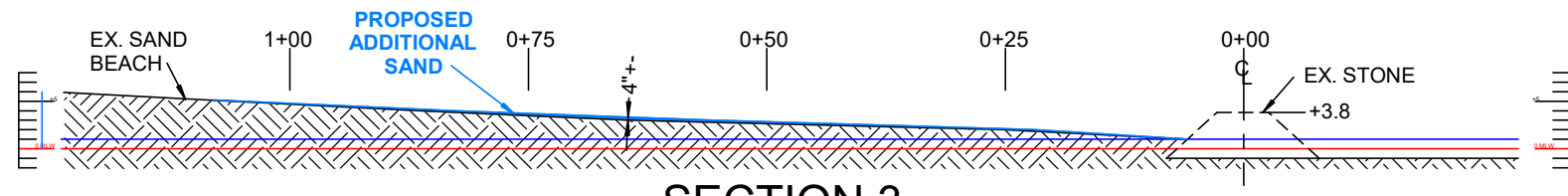
**SECTION 6  
EXISTING**



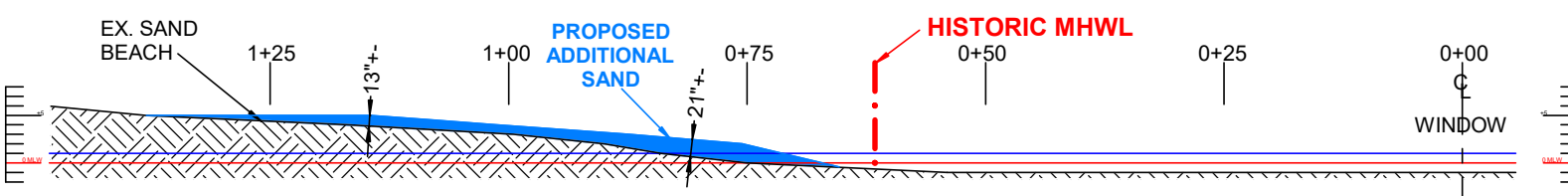
**SECTION 1**



**SECTION 2**



**SECTION 3**



**SECTION 4  
PROPOSED**

SCALE: 1"=20'

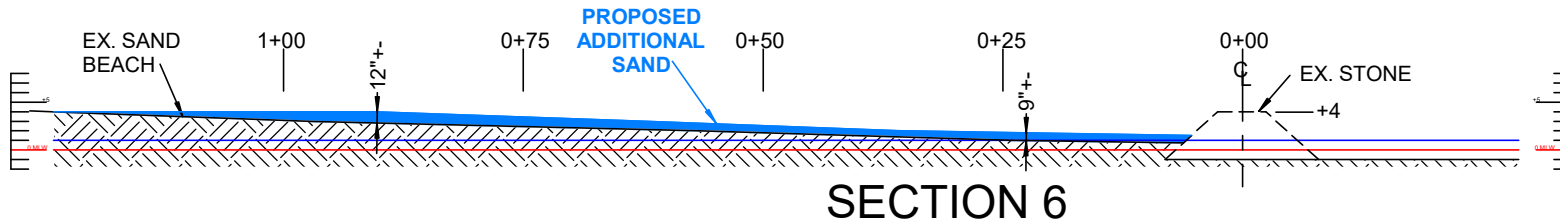
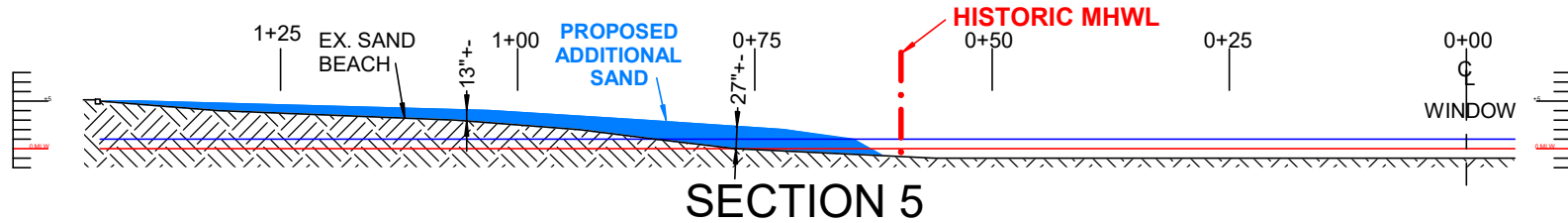
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ZONING: MB CRITICAL AREA -IDA

**EXISTING BEACH  
SECTIONS 6 AND  
PROPOSED SECTIONS 1 TO 4**  
NOTE: THE EXISTING AND PROPOSED BEACH  
ELEVATIONS SURVEYED BY BAY ENGINEERING  
10/2022

IN: CHESAPEAKE BAY  
TOWN: ROSE HAVEN  
COUNTY: ANNE ARUNDEL  
STATE: MARYLAND  
APPL. BY: HERRINGTON HARBOUR INC  
7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714  
DATE: REV. 5/15/23  
DRAWING 7



**TOTAL BEACH REPLENISHMENT (AVULSION)**

**WEST BEACH: EMPLACE 215 CY OF CLEAN SAND AS BEACH REPLENISHMENT (AVULSION) LANDWARD OF THE HISTORIC MHWL AND TO EMPLACE 65 CY OF CLEAN SAND AS BEACH REPLENISHMENT. TOTAL = 280 CY**

**EAST BEACH: EMPLACE 272 CY OF CLEAN SAND AS BEACH REPLENISHMENT (AVULSION) GRADE CHANNELWARD 25' MAX. OF THE HISTORIC MHWL AND TO EMPLACE APPROX. 690 CY OF CLEAN SAND BEACH REPLENISHMENT LANDWARD OF THE MHWL TOTAL = 962 CY**

**INSTALL 330 CY OF CLEAN SAND TO CREATE A TOMBOLO FOR CONSTRUCTION ACCESS.**

**GRAND TOTAL = 1,572 CY CLEAN SAND**

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202262043  
10/3/2023  
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**PROPOSED BEACH REPLENISHMENT SECTIONS**

SCALE: 1"=20'

NOTE: THE PROPOSED BEACH ELEVATIONS SURVEYED BY BAY ENGINEERING 10/2022

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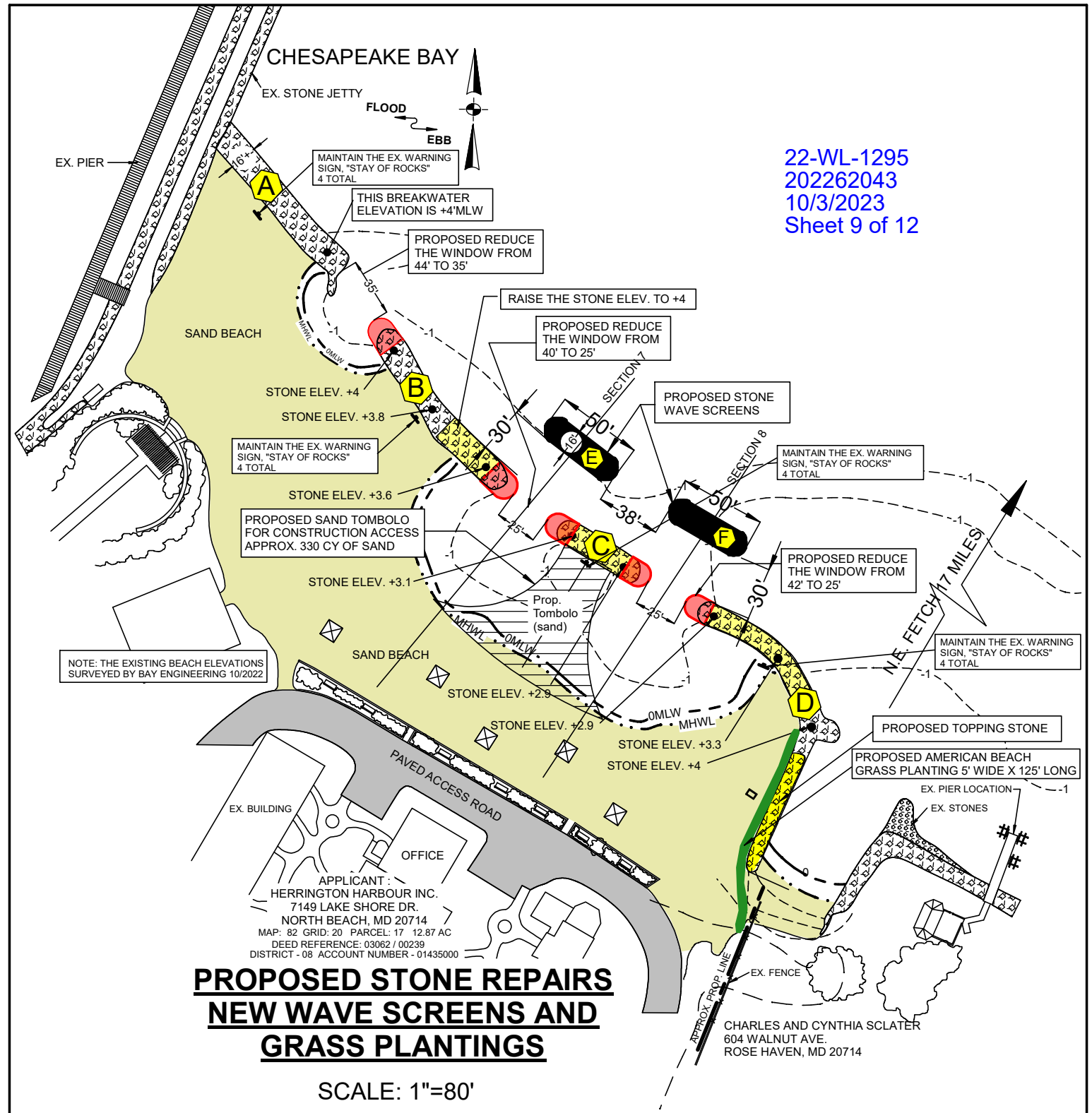
**PROPOSED SECTIONS 5 & 6**

NOTE: THE EXISTING AND PROPOSED BEACH ELEVATIONS SURVEYED BY BAY ENGINEERING 10/2022

IN: CHESAPEAKE BAY  
TOWN: ROSE HAVEN  
COUNTY: ANNE ARUNDEL  
STATE: MARYLAND  
APPL. BY: HERRINGTON HARBOUR INC  
7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714

DATE: REV. 5/15/23

DRAWING 7A



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 202262043  
 10/3/2023  
 Sheet 9 of 12

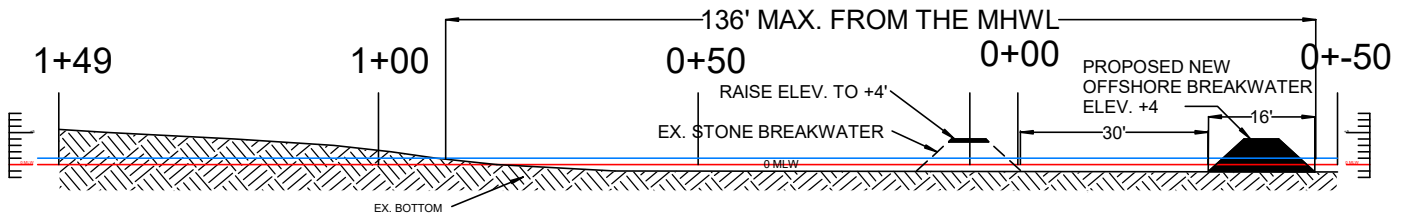
**PROPOSED STONE REPAIRS  
 NEW WAVE SCREENS AND  
 GRASS PLANTINGS**

SCALE: 1"=80'

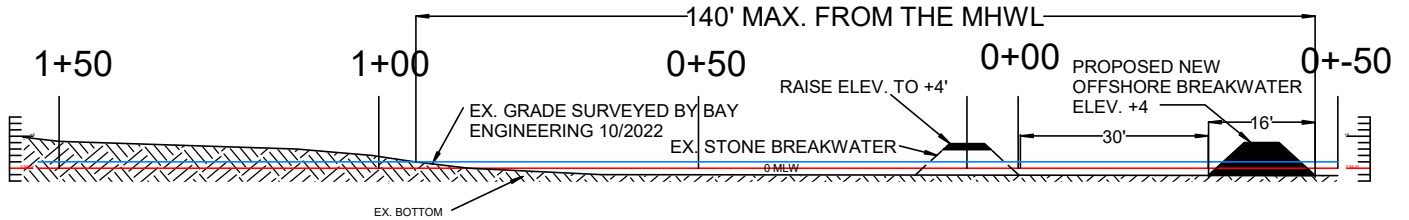
APPLICANT:  
 HERRINGTON HARBOUR INC.  
 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714  
 MAP: 82 GRID: 20 PARCEL: 17 12.87 AC  
 DEED REFERENCE: 03062 / 00239  
 DISTRICT - 08 ACCOUNT NUMBER - 01435000

CHARLES AND CYNTHIA SCLATER  
 604 WALNUT AVE.  
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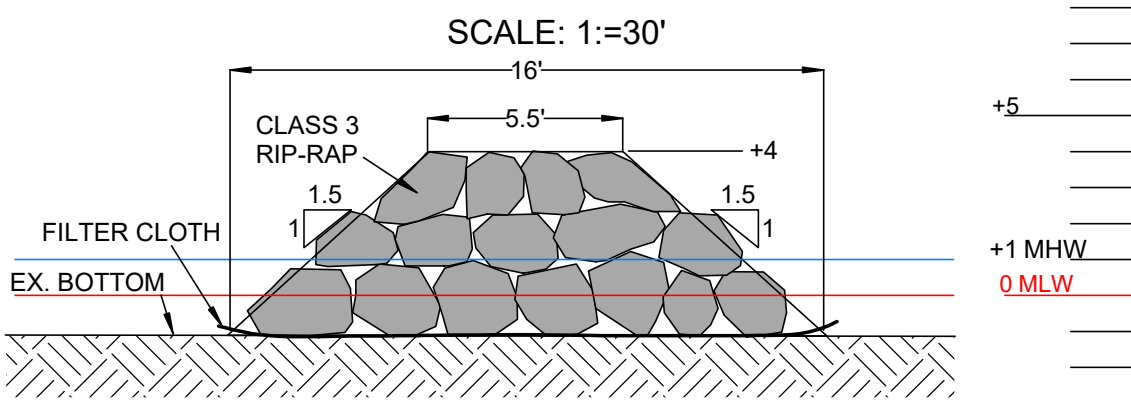
<p>OWNER : HERRINGTON HARBOUR INC.          MAILING ADDRESS: 7149 LAKE SHORE DR.          NORTH BEACH, MD 20714          SITE ADDRESS: 7149 LAKE SHORE DR.          NORTH BEACH, MD 20714</p>	<p>MAP: 82 GRID: 20 PARCEL: 17 12.87 AC          SUBDIVISION : 692          DEED REFERENCE: 03062 / 00239          DISTRICT - 08 ACCOUNT NUMBER - 01435000          ZONING: MB CRITICAL AREA -IDA</p>	<p><b>PROPOSED STONE REPAIRS          AND WAVE SCREENS</b></p>
<p><b>Doldon W. Moore &amp;          Associates, LLC</b>          Cell: 443-771-2374          Tidal Wetlands Consultant          and Facilitor          P.O. Box 1          Owings, MD 20736          Email: dwmoorej@verizon.net          Consulting Services, Permit Facilitation,          Proect Management, Aquaculture,          Habitat Restoration, Expert Testimony</p>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>TIDAL WATERS, TIDE RANGE IS +1.0', MAX. DIST. FROM MHW IS 140'</li> <li>ELEVATIONS BASED ON 0 MLW MEASURED FROM A DNR TIDE BOARD LOCATED AT THE NORTH BEACH BOAT RAMP AND A TOPO SURVEY BY BAY ENGINEERING INC.</li> <li>PROPOSED WORK: FOR A FULL WORK DESCRIPTION SEE SHEET 3.</li> <li>ALL ACCESS IS BY LAND AND WATER.</li> <li>THIS DRAWING IS FOR OUTLINE PURPOSES ONLY.</li> <li>DRAWN BY: FRED BEDELL</li> </ol>	<p>IN: CHESAPEAKE BAY          TOWN: ROSE HAVEN          COUNTY: ANNE ARUNDEL          STATE: MARYLAND          APPL. BY: HERRINGTON HARBOUR INC          7149 LAKE SHORE DR.          NORTH BEACH, MD 20714          DATE: REV 5/15/23          DRAWING 8</p>



**CROSS SECTION 7**



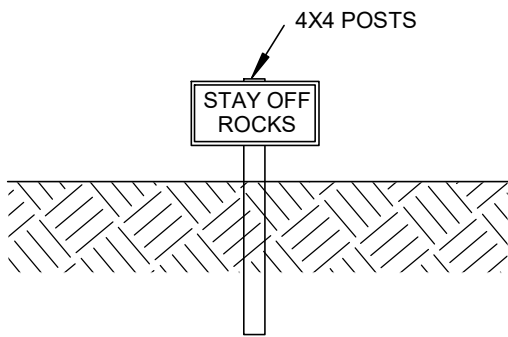
**CROSS SECTION 8**



**PROPOSED WAVE SCREEN SECTION**

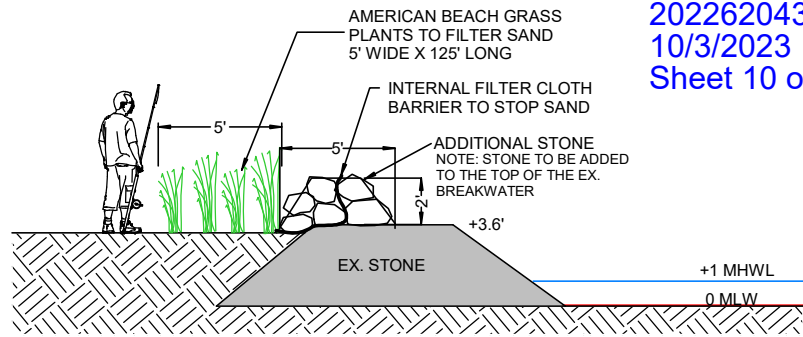
SCALE: 3/16"=1'

22-WL-1295  
202262043  
10/3/2023  
Sheet 10 of 12



**EXISTING WARNING SIGNS**

NOT TO SCALE



**AMERICAN BEACH GRASS PLANTING AND STONE BARRIER**

SCALE: 1/8"=1'

OWNER : HERRINGTON HARBOUR INC.  
MAILING ADDRESS: 7149 LAKE SHORE DR.  
NORTH BEACH, MD 20714  
SITE ADDRESS: 7149 LAKE SHORE DR.  
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**SECTION 7 & 8  
WAVE SCREEN SECTION  
PLANTING SECTION**

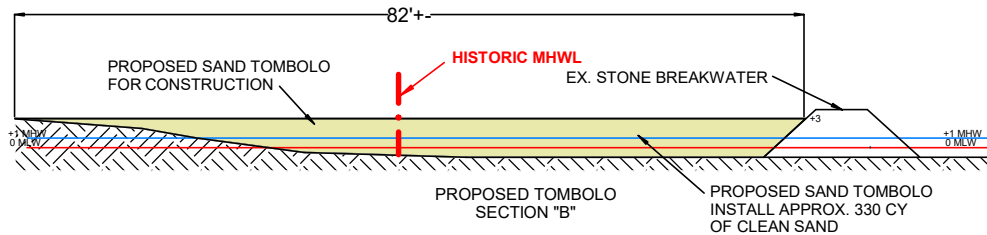
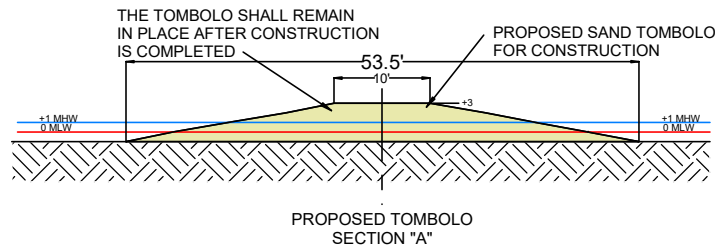
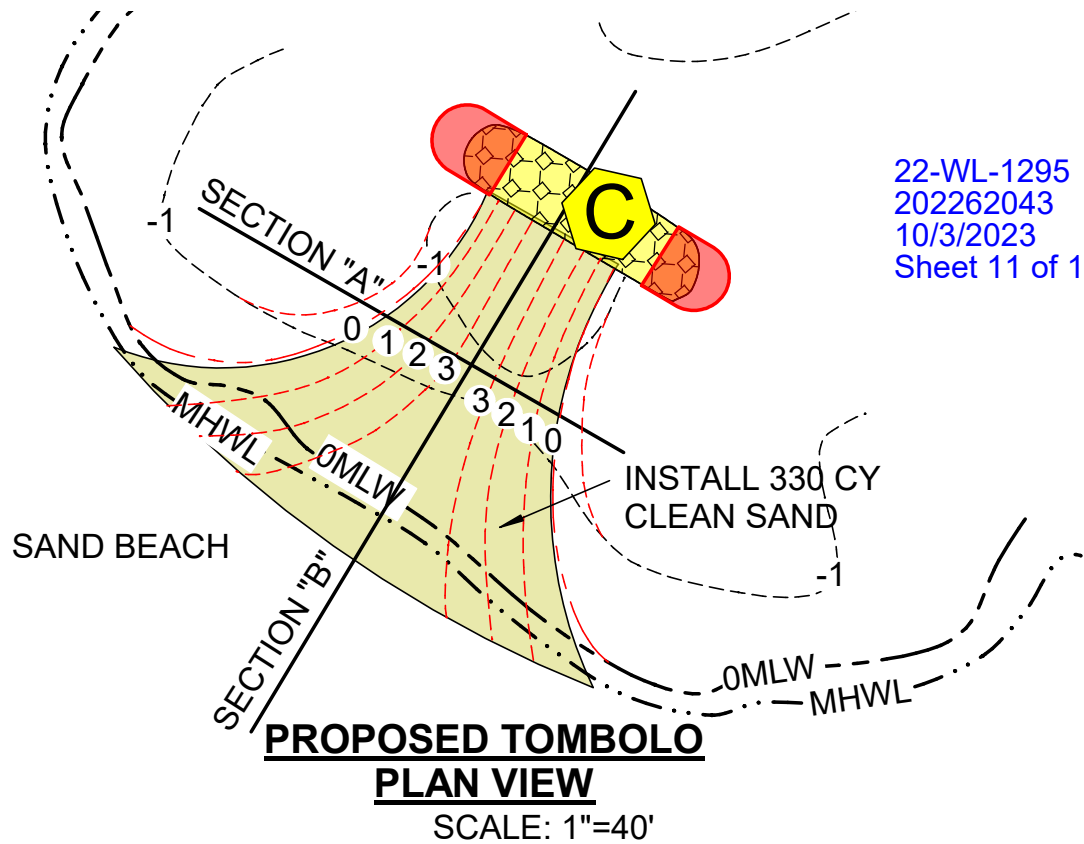
**Doldon W. Moore & Associates, LLC**  
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DRAWING 9



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 Sheet 11 of 12



SCALE" 1"=20'

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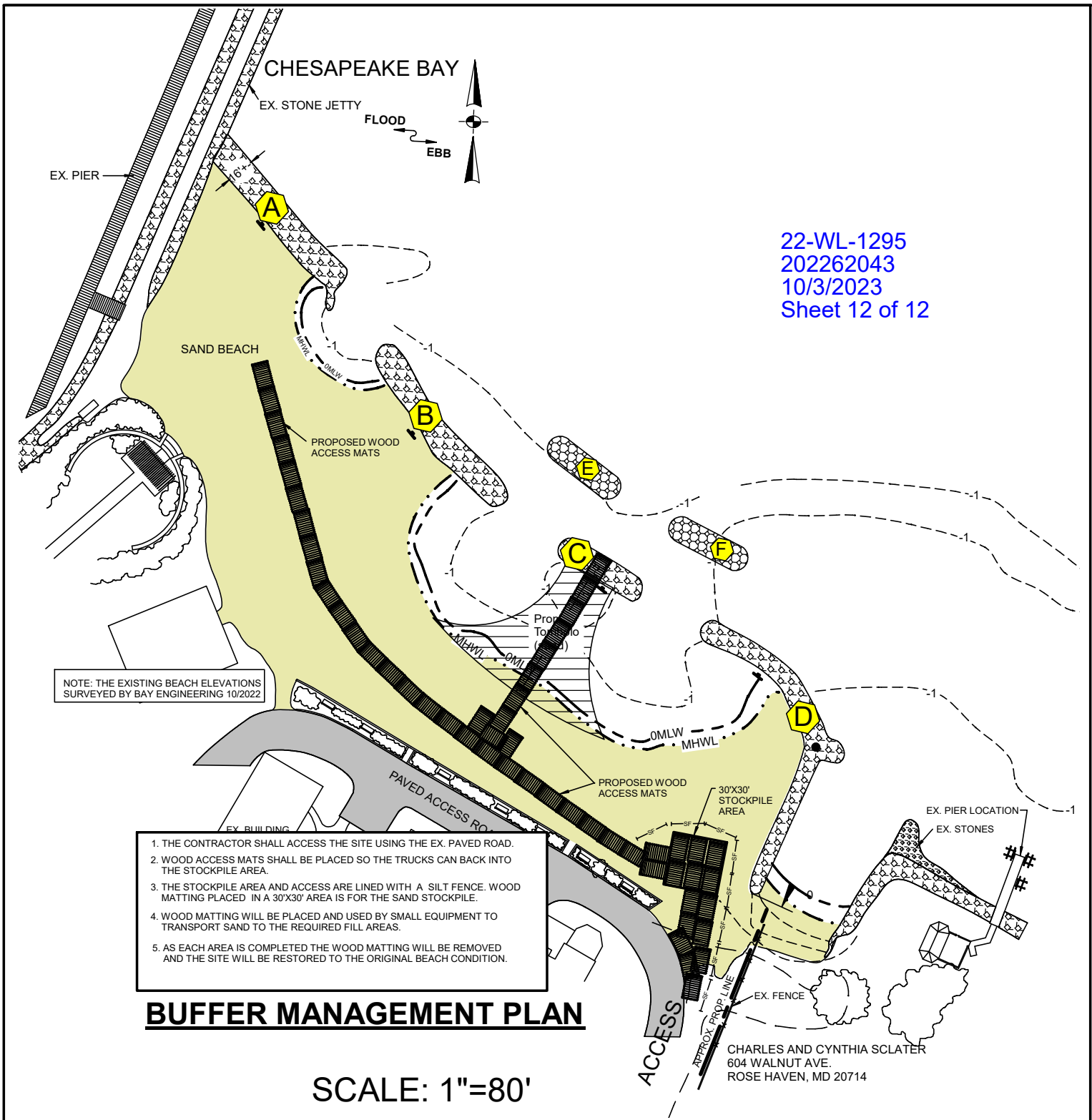
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 DISTRICT - 08 ACCOUNT NUMBER - 01435000  
 ZONING: MB CRITICAL AREA -IDA

**TOMBOLO DETAILS  
 AND SECTIONS**

**Doldon W. Moore &  
 Associates, LLC**  
 Cell: 443-771-2374  
 Tidal Wetlands Consultant  
 and Facilitor  
 P.O. Box 1  
 Owings, MD 20736  
 Email: dwwmoorej@verizon.net  
 Consulting Services, Permit Facilitation,  
 Proect Management, Aquaculture,  
 Habitat Restoration, Expert Testimony

- NOTES:**
1. TIDAL WATERS, TIDE RANGE IS +1.0', MAX. DIST. FROM MHW IS 140'
  2. ELEVATIONS BASED ON 0 MLW MEASURED FROM A DNR TIDE BOARD LOCATED AT THE NORTH BEACH BOAT RAMP AND A TOPO SURVEY BY BAY ENGINEERING INC.
  3. PROPOSED WORK: FOR A FULL WORK DESCRIPTION SEE SHEET 3.
  4. ALL ACCESS IS BY LAND AND WATER.
  5. THIS DRAWING IS FOR OUTLINE PURPOSES ONLY.
  6. DRAWN BY: FRED BEDELL

IN: CHESAPEAKE BAY  
 TOWN: ROSE HAVEN  
 COUNTY: ANNE ARUNDEL  
 STATE: MARYLAND  
 APPL. BY: HERRINGTON  
 HARBOUR INC  
 7149 LAKE SHORE DR.  
 NORTH BEACH, MD 20714  
 DATE: REV. 5/15/23  
 DRAWING 10



22-WL-1295  
 202262043  
 10/3/2023  
 Sheet 12 of 12

NOTE: THE EXISTING BEACH ELEVATIONS SURVEYED BY BAY ENGINEERING 10/2022

1. THE CONTRACTOR SHALL ACCESS THE SITE USING THE EX. PAVED ROAD.
2. WOOD ACCESS MATS SHALL BE PLACED SO THE TRUCKS CAN BACK INTO THE STOCKPILE AREA.
3. THE STOCKPILE AREA AND ACCESS ARE LINED WITH A SILT FENCE. WOOD MATTING PLACED IN A 30'X30' AREA IS FOR THE SAND STOCKPILE.
4. WOOD MATTING WILL BE PLACED AND USED BY SMALL EQUIPMENT TO TRANSPORT SAND TO THE REQUIRED FILL AREAS.
5. AS EACH AREA IS COMPLETED THE WOOD MATTING WILL BE REMOVED AND THE SITE WILL BE RESTORED TO THE ORIGINAL BEACH CONDITION.

**BUFFER MANAGEMENT PLAN**

SCALE: 1"=80'

CHARLES AND CYNTHIA SCLATER  
 604 WALNUT AVE.  
 ROSE HAVEN, MD 20714

<p>OWNER : HERRINGTON HARBOUR INC.          MAILING ADDRESS: 7149 LAKE SHORE DR.          NORTH BEACH, MD 20714          SITE ADDRESS: 7149 LAKE SHORE DR.          NORTH BEACH, MD 20714</p>	<p>MAP: 82 GRID: 20 PARCEL: 17 12.87 AC          SUBDIVISION : 692          DEED REFERENCE: 03062 / 00239          DISTRICT - 08 ACCOUNT NUMBER - 01435000          ZONING: MB CRITICAL AREA -IDA</p>	<p><b><i>BUFFER          MANAGEMENT          PLAN</i></b></p>
<p><b>Doldon W. Moore &amp;          Associates, LLC</b>          Cell: 443-771-2374          Tidal Wetlands Consultant          and Facilitator          P.O. Box 1          Owings, MD 20736          Email: <a href="mailto:dwmoorej@verizon.net">dwmoorej@verizon.net</a>          Consulting Services, Permit Facilitation,          Proect Management, Aquaculture,          Habitat Restoration, Expert Testimony</p>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. TIDAL WATERS, TIDE RANGE IS +1.0', MAX. DIST. FROM MHW IS 140'</li> <li>2. ELEVATIONS BASED ON 0 MLW MEASURED FROM A DNR TIDE BOARD LOCATED AT THE NORTH BEACH BOAT RAMP AND A TOPO SURVEY BY BAY ENGINEERING INC.</li> <li>3. PROPOSED WORK: FOR A FULL WORK DESCRIPTION SEE SHEET 3.</li> <li>4. ALL ACCESS IS BY LAND AND WATER.</li> <li>5. THIS DRAWING IS FOR OUTLINE PURPOSES ONLY.</li> <li>6. DRAWN BY: FRED BEDELL</li> </ol>	<p>IN: CHESAPEAKE BAY          TOWN: ROSE HAVEN          COUNTY: ANNE ARUNDEL          STATE: MARYLAND          APPL. BY: HERRINGTON          HARBOUR INC          7149 LAKE SHORE DR.          NORTH BEACH, MD 20714          DATE: REV. 5/15/23          DRAWING 11</p>