



U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OP-RMN (Baltimore County Dept. of Recreation & Parks/
Watersedge Park / Revetment) 2016-60705-M18

PN 16-44

Comment Period: August 5, 2016 to September 5, 2016

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

This District has received an application for a Department of the Army permit pursuant to **Section 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act (33. U.S.C. 1344)** as described below:

APPLICANT: Mr. Patrick McDougall
Baltimore County Department of Recreation & Parks
9831 Van Buren Lane
Cockeysville, Maryland 21030

WATERWAY AND LOCATION: The proposed project is located in Bear Creek at Watersedge Park, 8820 Bullneck Road, Watersedge, Baltimore County, Maryland.

PROPOSED WORK:

1. Remove 280 cubic yards of existing stone breakwater structure (approximately 130 linear feet) to be reused for reconstruction of new breakwater structures.
2. Excavate and remove 9,000 square feet of invasive species, (*Phragmites*) along the project shoreline and backfill with clean sand.
3. Remove rubble and debris along 760 linear feet of shoreline.
4. Remove five timber piles adjacent to the existing timber pier.
5. Construct one 85 linear foot stone breakwater structure a maximum distance of 75 feet channelward of the approximate mean high water shoreline.
6. Reconstruct an existing stone breakwater structure by extending the length to 105 linear feet at a maximum distance of 60 feet channelward of the approximate mean high water shoreline.
7. Construct three stone groin structures 85 linear feet each at a maximum distance of 95 feet channelward of the approximate mean high water shoreline.
8. Place 2,600 cubic yards of clean sand over approximately 1.3 acres of shoreline and plant approximately 1.3 acres with marsh vegetation to create 1,500 linear feet of living shoreline within a maximum distance of 60 feet channelward of the

approximate mean high water shoreline.

9. Regrade 9,500 square feet of tidal area behind existing breakwaters and plant with marsh vegetation.
10. Repair undermining at the approach slab to the existing timber pier and install 140 square feet of stone slope protection within a maximum distance of 10 feet channelward of the approximate mean high water shoreline.
11. Remove undermined concrete seawall stairs.
12. Repair 85 linear feet of existing stone slope protection and install 75 linear feet of additional stone slope protection along the existing seawall within a maximum distance of 8 feet channelward of the approximate mean high water shoreline.

The purpose of the project is to provide shoreline erosion control and enhancement at Watersedge Park in Bear Creek, Baltimore County. All work will be completed in accordance with the enclosed plans dated April 20, 2016.

If you have any questions concerning this matter, please contact Mr. Richard Kibby at 410-962-0694 or richard.kibby@usace.army.mil.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, 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 reasonable 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, economic, 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, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people.

The evaluation of the impacts of the work described above on the public interest will include application of the Clean Water Act 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

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 provided will become part of the public record for this action. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Richard Kibby, CENAB-OPR-M], 10 S. Howard Street, Baltimore, MD 21201 or richard.kibby@usace.army.mil, within the comment period specified above.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH).

The project site lies in or adjacent to EFH as described under MSFCMA for windowpane flounder (*Scopthalmus aquosus*) juvenile and adult; blue fish (*Pomatomus saltatrix*) juvenile and adult; summer flounder (*Paralichthys dentatus*) juvenile and adult; and egg, larvae, juvenile and adult stages of red drum (*Sciaenops ocellatus*), king mackerel (*Scomberomorus cavalla*), spanish mackerel (*Scomberomorus maculatus*), and cobia (*Rachycentron canadum*), all managed species under the MSFCMA.

The project has the potential to adversely affect EFH or the species of concern by loss of spawning, nursery, forage and/or shelter habitat as described under the MSFCMA for the species and life stages identified above. The Baltimore District has made a preliminary determination that site-specific impacts would not be substantial and an abbreviated consultation will be conducted with NMFS. This determination may be modified if additional information indicates otherwise and would change the preliminary determination.

WATER QUALITY CERTIFICATION: 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 Maryland Department of the Environment, Tidal Wetlands Division, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. MDE has a statutory limit of one year from the date of this public notice to make its decision.

COASTAL ZONE MANAGEMENT PROGRAMS: The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the Maryland Coastal Zone Management (CZM) Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement. Public comments relating to consistency must be received by the Maryland Department of the Environment, Tidal Wetlands Division, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period specified above to receive consideration. MDE has a statutory limit of 6 months to concur or object to the applicant's consistency determination.

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 Federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues,

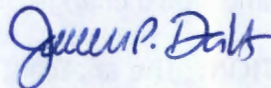
additional information may become available which could modify this preliminary determination.

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 request permit.

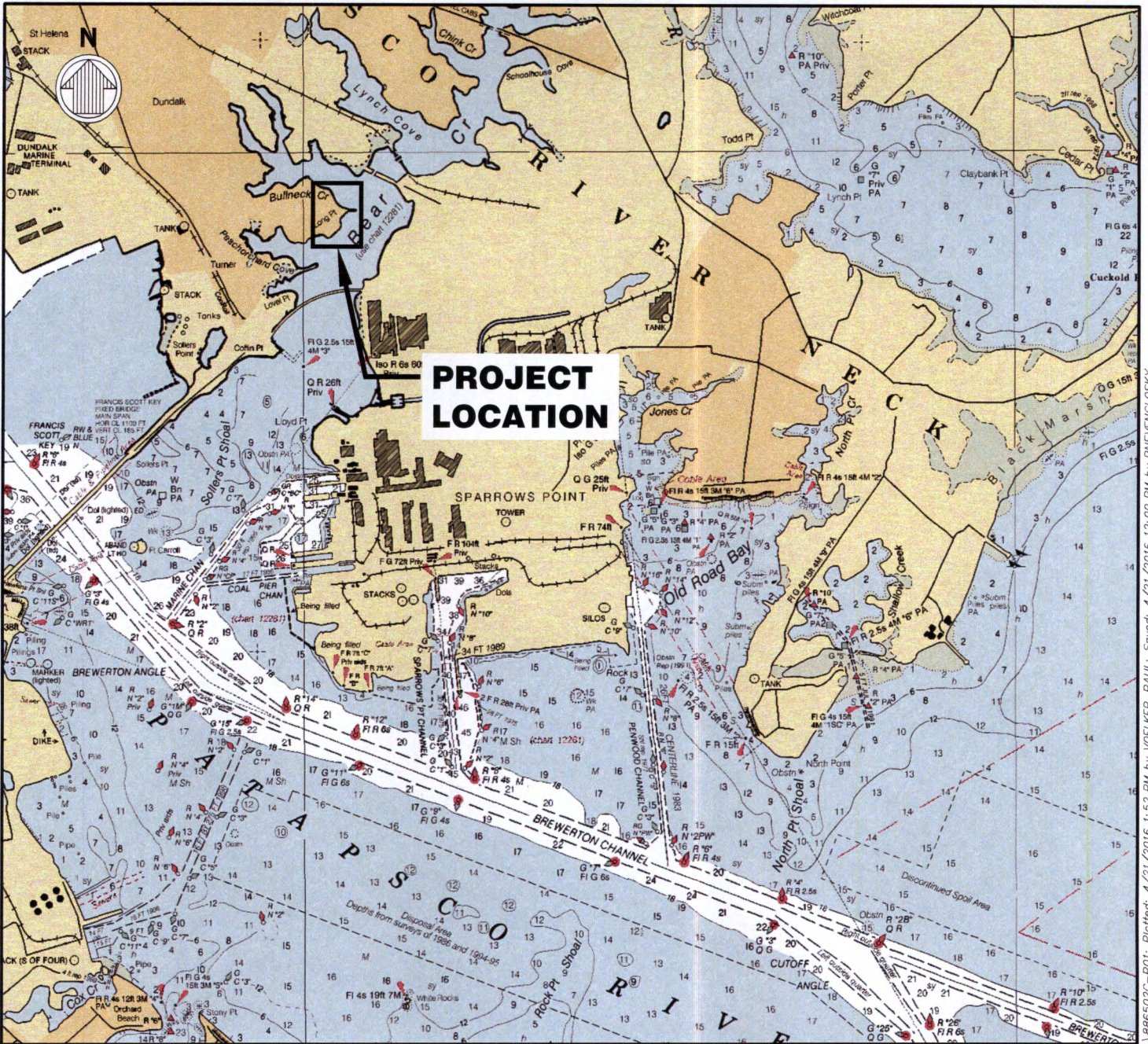
Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Richard Kibby, CENAB-OP-RMN], 10 South Howard Street, Baltimore, Maryland 21201, within the comment period as specified above to receive consideration. Also it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

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

FOR THE DISTRICT ENGINEER:



Joseph P. DaVia
Chief, Maryland Section Northern



**PROJECT
LOCATION**

VICINITY MAP

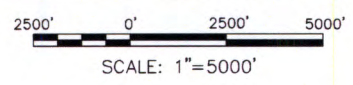
NOTE: BACKGROUND TAKEN FROM NOAA CHART 12278, 70TH ED., MAR. 4/00


SUMMARY

1. REMOVE 9,000 SF OF PHRAGMITES ALONG SHORELINE.
2. REMOVE RUBBLE AND DEBRIS FROM 760 LF OF SHORELINE.
3. REMOVE FIVE (5) TIMBER PILES ADJACENT TO EXISTING TIMBER PIER.
4. REMOVE 130 LF (280 CY) OF EXISTING BREAKWATER STRUCTURE.
5. CONSTRUCT 85 LF OF NEW BREAKWATER STRUCTURE.
6. CONSTRUCT 105 LF OF ENHANCED BREAKWATER STRUCTURE.
7. CONSTRUCT THREE (3) STONE GROINS, 85 LF EACH.
8. CONSTRUCT 1,500 LF OF LIVING SHORELINE BY PLACING 2,600 CY OF CLEAN SAND OVER 1.3 AC.
9. REGRADE 9,500 SF OF TIDAL AREA BEHIND BREAKWATERS AND INSTALL MARSH PLANTINGS.
10. REPAIR UNDERMINING AT PIER APPROACH SLAB AND INSTALL 140 SF OF STONE SLOPE PROTECTION.
11. REMOVE UNDERMINED CONCRETE SEAWALL STAIRS.
12. REPAIR 85 LF OF STONE SLOPE PROTECTION AND INSTALL 75 LF (600 SF) OF ADDITIONAL STONE SLOPE PROTECTION ALONG EXISTING SEAWALL.

APPLICATION BY:
BALTIMORE COUNTY
DEPT OF RECREATION AND PARKS
9831 VAN BUREN LANE
COCKEYSVILLE, MD 21030

**WATERSEdge PARK
SHORELINE EROSION CONTROL
AND ENHANCEMENT**

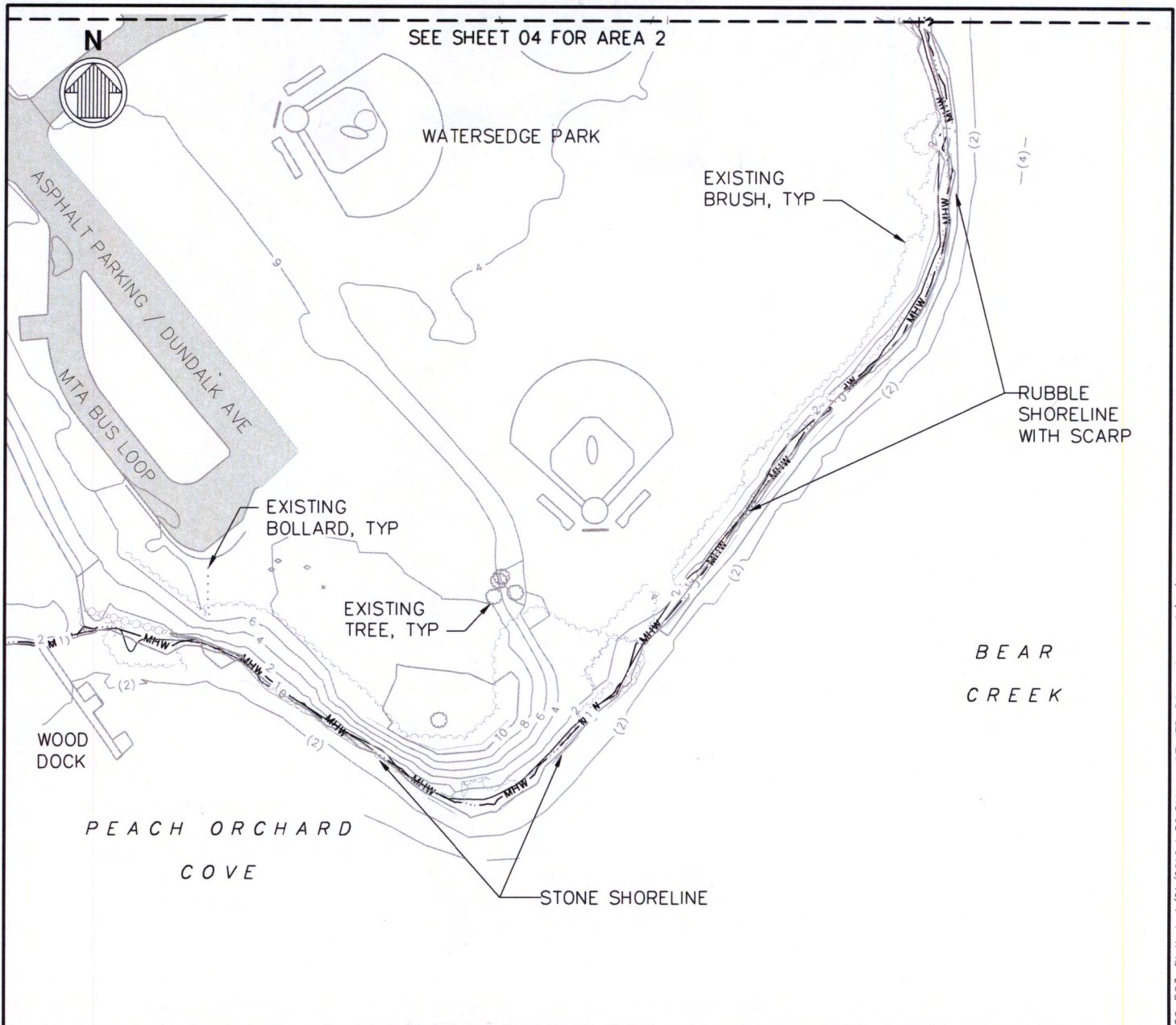


AGENT/ENGINEER:
 **moffatt & nichol**

PROJECT LOCATION:
BEAR CREEK
BALTIMORE COUNTY, MARYLAND

DATE: APRIL 20, 2016

SHEET 01 OF 14



EXISTING CONDITIONS – AREA 1


LEGEND

- MHW — MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

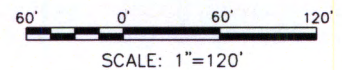
MEAN LOW WATER (MLW) = 0.0
 SOUNDINGS IN FEET
 EXISTING BATHYMETRY REFERENCED
 FROM EBA ENGINEERING INC, JUNE
 2015 SURVEY

APPLICATION BY:
 BALTIMORE COUNTY
 DEPT OF RECREATION AND PARKS
 9831 VAN BUREN LANE
 COCKEYSVILLE, MD 21030

AGENT/ENGINEER:
 **moffatt & nichol**

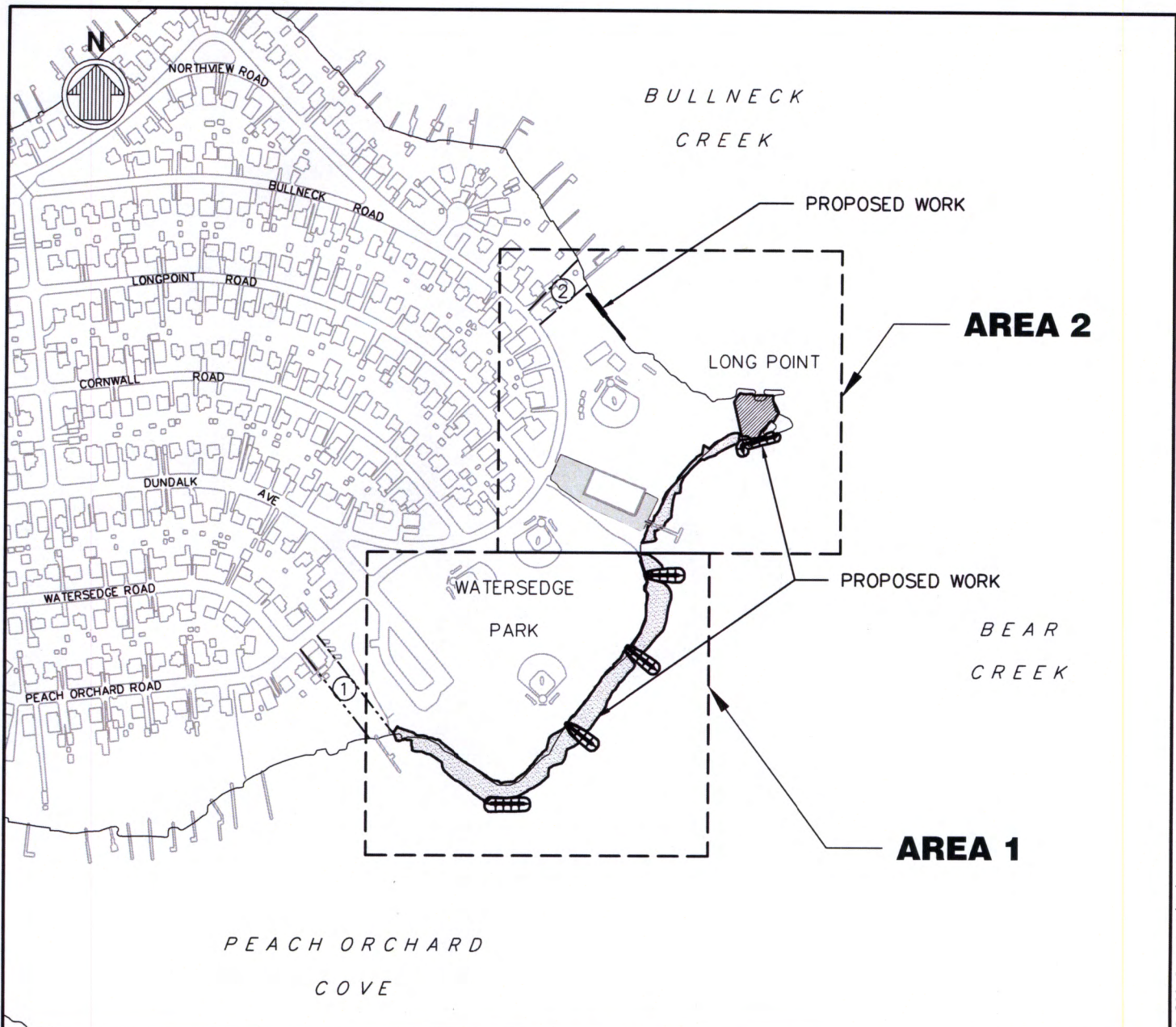
**WATERSEGE PARK
 SHORELINE EROSION CONTROL
 AND ENHANCEMENT**

PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND



DATE: APRIL 20, 2016

SHEET 03 OF 14



LOCATION MAP

- ① GWENDOLYN PARKER, 8247 PEACH ORCHARD RD,
BALTIMORE MD 21221
- ② CHARLES & KATHERINE GRIMM, 8276 BULLNECK RD,
BALTIMORE MD 21222

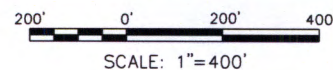
APPLICATION BY:
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DEPT OF RECREATION AND PARKS
9831 VAN BUREN LANE
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AGENT/ENGINEER:



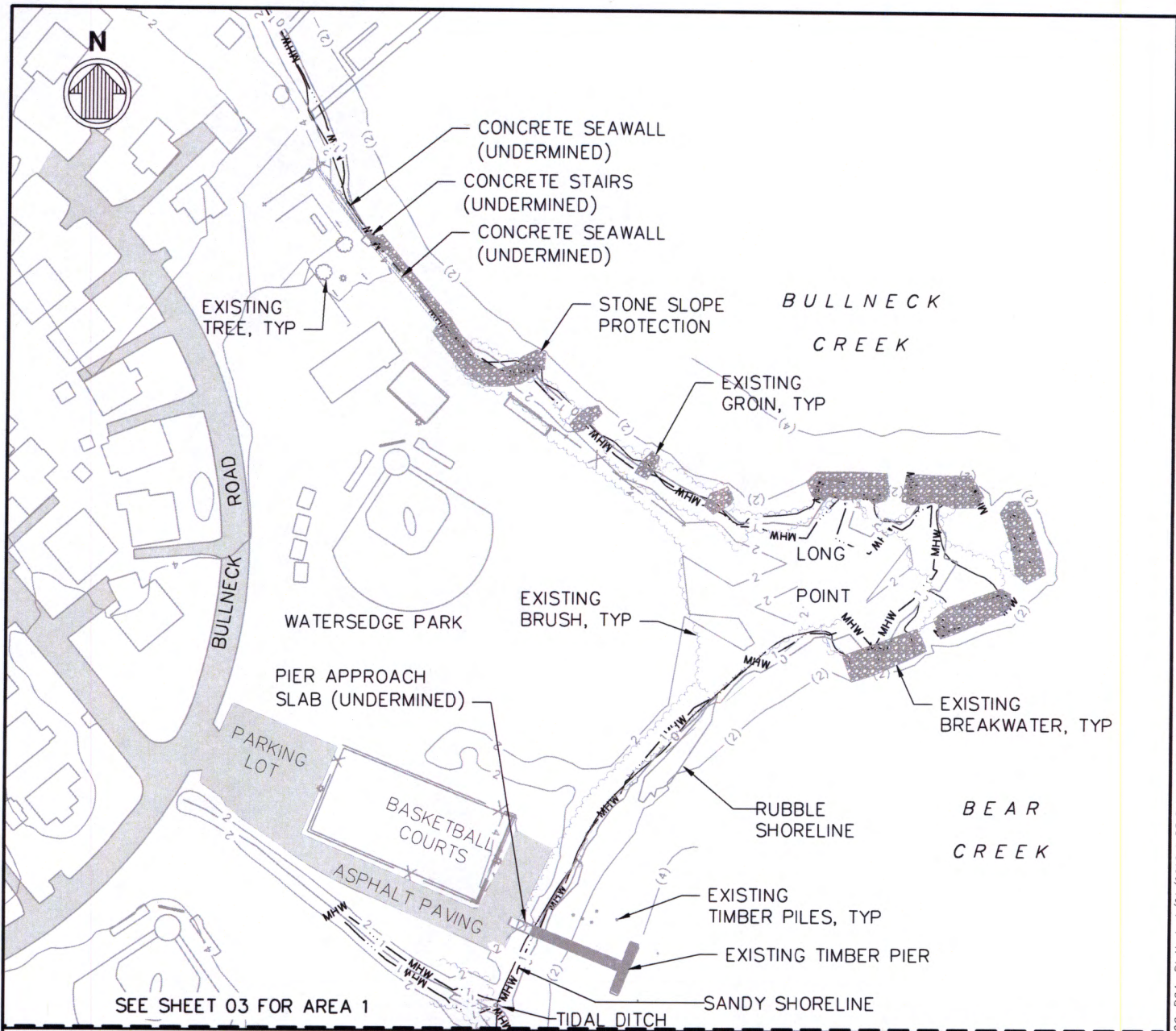
**WATERSEEDGE PARK
SHORELINE EROSION CONTROL
AND ENHANCEMENT**

PROJECT LOCATION:
BEAR CREEK
BALTIMORE COUNTY, MARYLAND



DATE: APRIL 20, 2016

SHEET 02 OF 14



SEE SHEET 03 FOR AREA 1

EXISTING CONDITIONS - AREA 2


LEGEND

- MHW — MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

MEAN LOW WATER (MLW) = 0.0
 SOUNDINGS IN FEET
 EXISTING BATHYMETRY REFERENCED
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 2015 SURVEY

APPLICATION BY:
 BALTIMORE COUNTY
 DEPT OF RECREATION AND PARKS
 9831 VAN BUREN LANE
 COCKEYSVILLE, MD 21030

AGENT/ENGINEER:
 **moffatt & nichol**

**WATERSEDGE PARK
 SHORELINE EROSION CONTROL
 AND ENHANCEMENT**

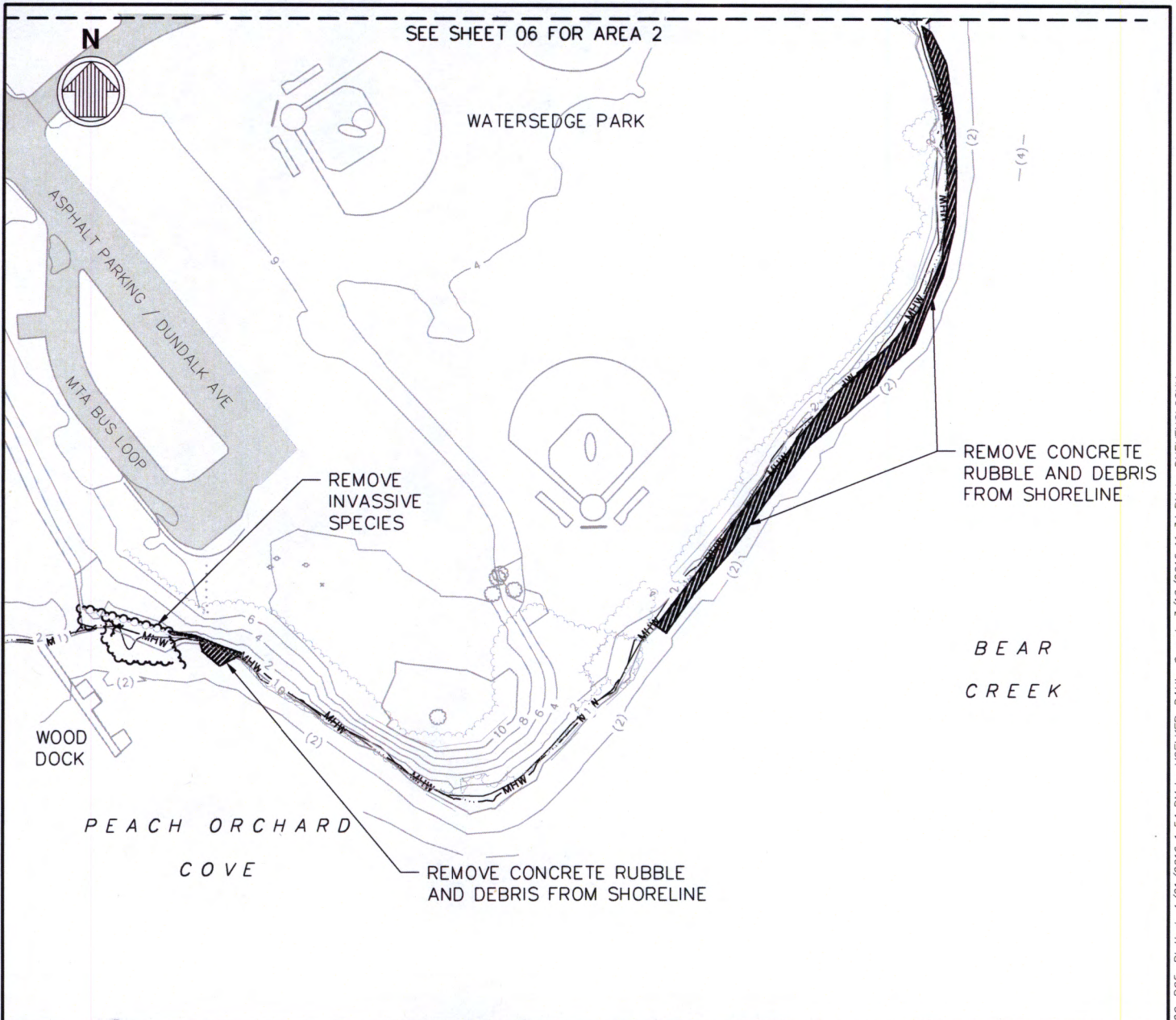
PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND

60' 0' 60' 120'
 SCALE: 1"=120'

DATE: APRIL 20, 2016

SHEET 04 OF 14

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PROPOSED DEMOLITION – AREA 1

NOTES

1. EXCAVATE AND REMOVE EXISTING PHRAGMITES AREAS (APPROX 9,000 SF TOTAL). EXCAVATE TO A MINIMUM 24" DEPTH AND BACKFILL WITH CLEAN SAND.
2. CLEAN UP EXISTING SHORELINE AND REMOVE DEBRIS (APPROX 760 LF). REMOVE CONCRETE RUBBLE AND DEBRIS AND PROPERLY DISPOSE OF OFFSITE.


LEGEND

- MHW — MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

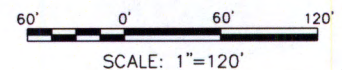
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AGENT/ENGINEER:
 **moffatt & nichol**

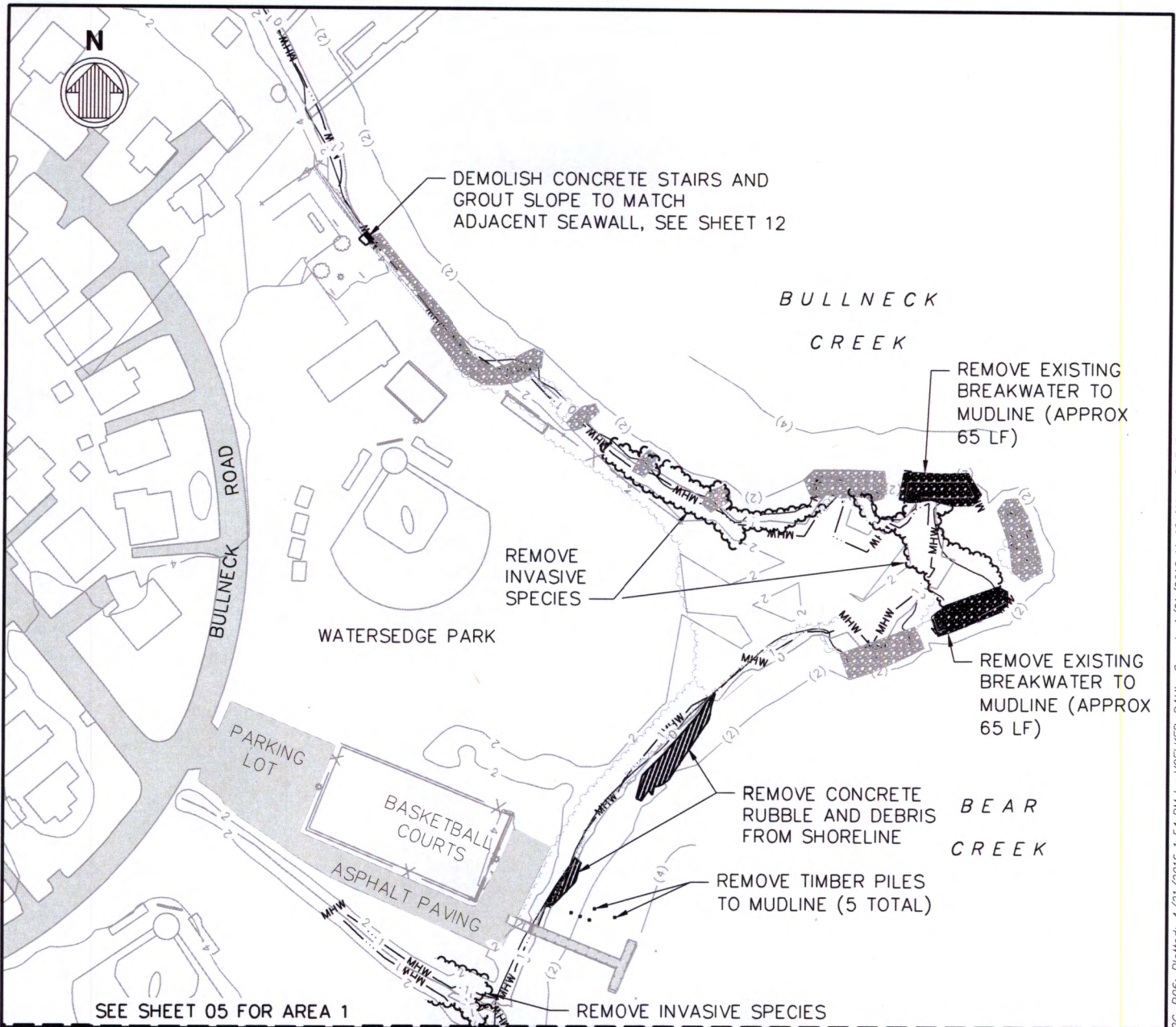
**WATERSEDGE PARK
 SHORELINE EROSION CONTROL
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PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND



DATE: APRIL 20, 2016

SHEET 05 OF 14



SEE SHEET 05 FOR AREA 1

PROPOSED DEMOLITION – AREA 2

NOTES

1. EXCAVATE AND REMOVE EXISTING PHRAGMITES AREAS (SEE SHEET 05, NOTE 1).
2. CLEAN UP EXISTING SHORELINE AND REMOVE DEBRIS (SEE SHEET 05, NOTE 2).
3. REMOVE FIVE (5) TIMBER PILES ADJACENT TO THE EXISTING TIMBER PIER. PULL PILES OR CUTOFF AT MUDLINE.
4. REMOVE TWO (2) EXISTING BREAKWATER STRUCTURES (130 LF TOTAL, APPROX 280 CY) TO INCREASE SPACING FOR IMPROVED TIDAL FLUSHING. RE-USE RIPRAP AS CORE STONE IN NEW BREAKWATER (SEE SHEET 07).
5. DEMOLISH EXISTING CONCRETE SEAWALL STAIRS AND RECONSTRUCT AREA WITH CEMENTITIOUS GROUT TO MATCH ADJACENT SEAWALL.

LEGEND

- MHW — MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

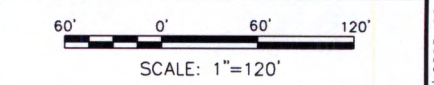
MEAN LOW WATER (MLW) = 0.0
 SOUNDINGS IN FEET
 EXISTING BATHYMETRY REFERENCED FROM EBA ENGINEERING INC, JUNE 2015 SURVEY

APPLICATION BY:
 BALTIMORE COUNTY
 DEPT OF RECREATION AND PARKS
 9831 VAN BUREN LANE
 COCKEYSVILLE, MD 21030

AGENT/ENGINEER:
moffatt & nichol

**WATERSEDGE PARK
 SHORELINE EROSION CONTROL
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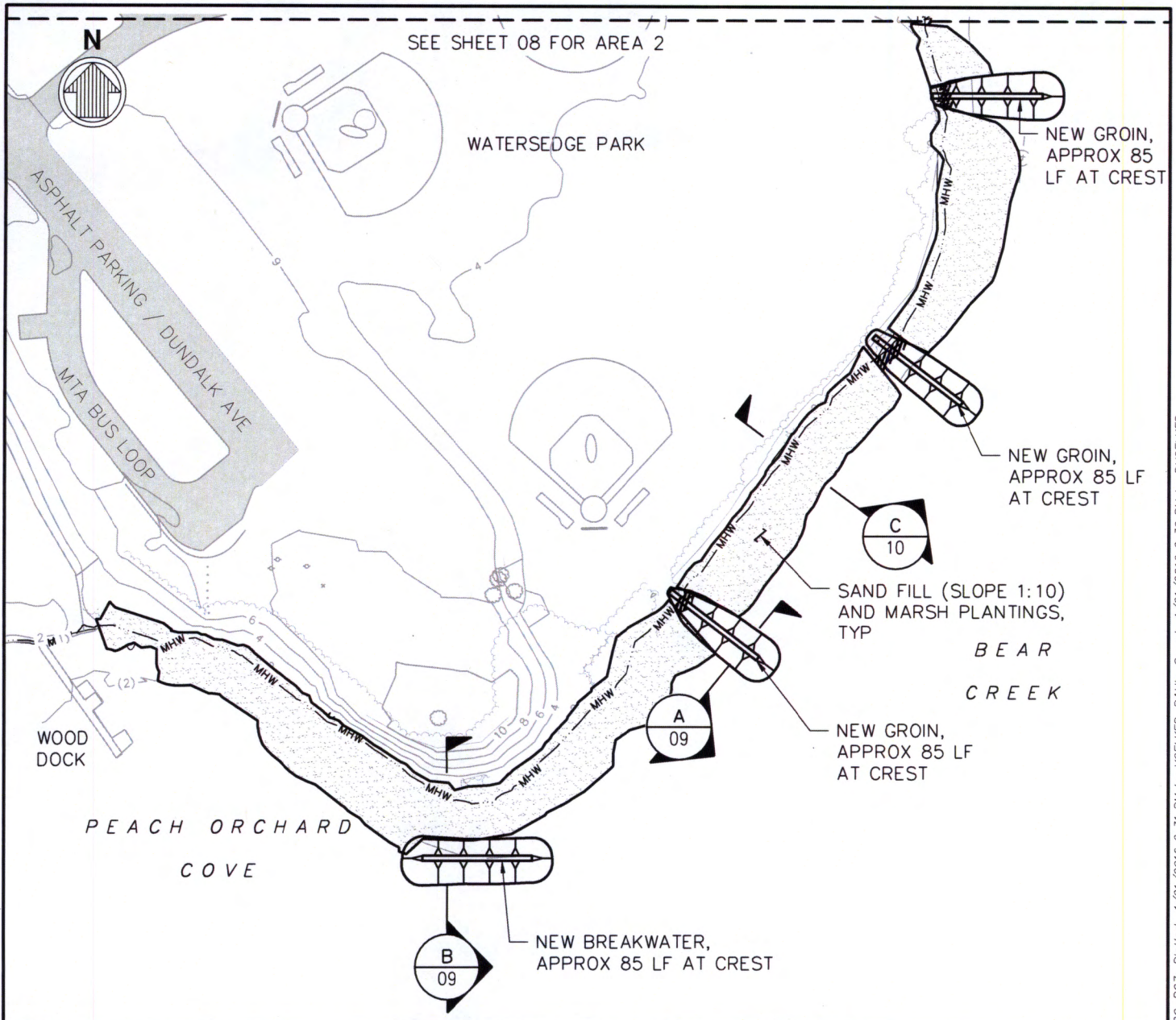
PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND



DATE: APRIL 20, 2016

SHEET 06 OF 14

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PROPOSED CONSTRUCTION – AREA 1

NOTES

1. CONSTRUCT ONE (1) STONE BREAKWATER, 85 LF AT CREST.
2. CONSTRUCT THREE (3) STONE GROINS, 85 LF EACH AT CREST, MAX 95 FT CHANNELWARD OF MHW.
3. PLACE CLEAN SAND FILL MATERIAL (2,600 CY, 1.3 AC TOTAL) TO CONSTRUCT 1,500 LF OF LIVING SHORELINE. INSTALL MARSH PLANTINGS AND SHRUBS (SEE SHEET 14).

LEGEND

- MHW — MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

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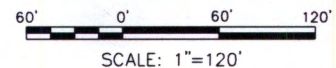
APPLICATION BY:
 BALTIMORE COUNTY
 DEPT OF RECREATION AND PARKS
 9831 VAN BUREN LANE
 COCKEYSVILLE, MD 21030

AGENT/ENGINEER:



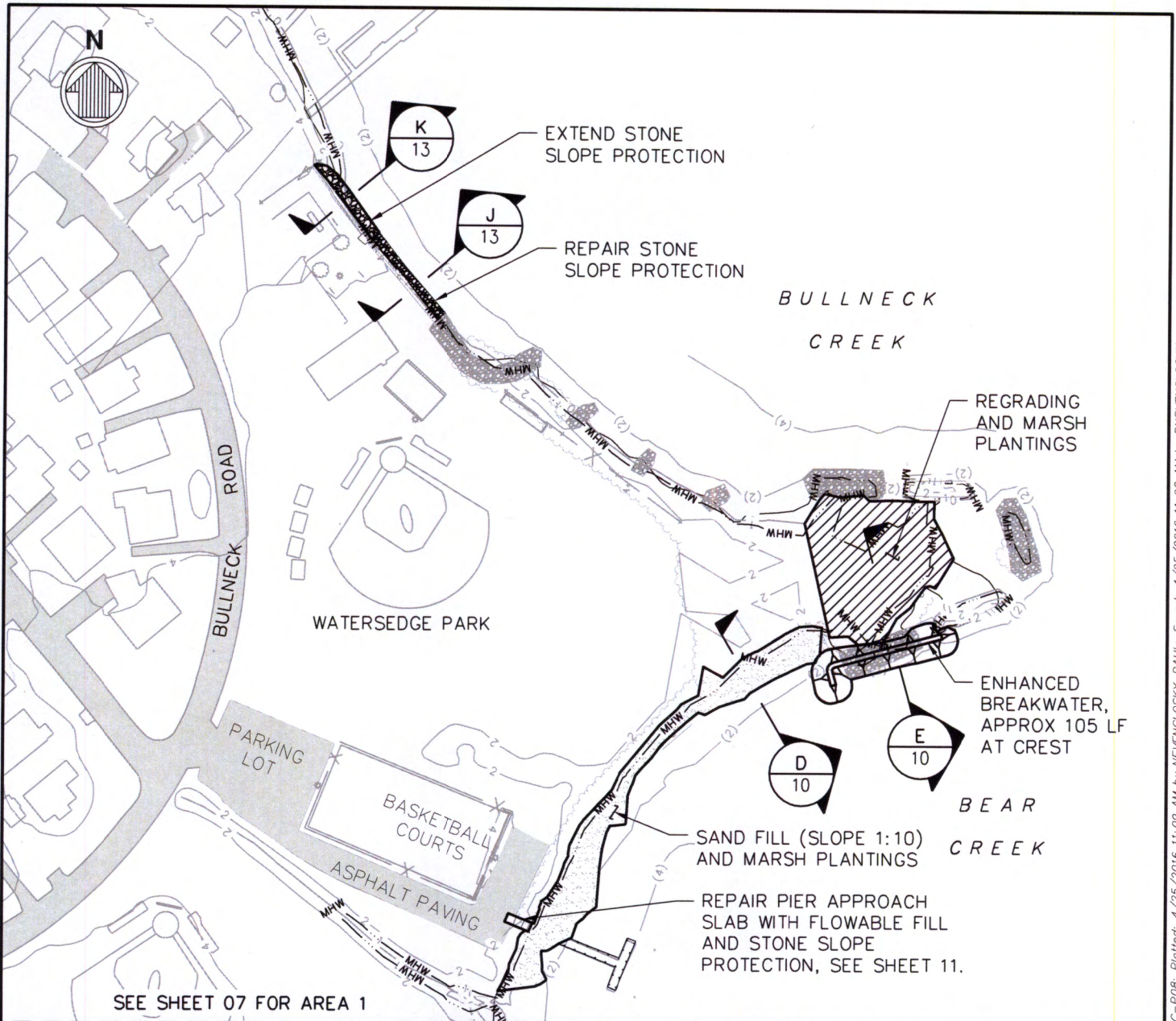
**WATERSEEDGE PARK
 SHORELINE EROSION CONTROL
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PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND



DATE: APRIL 20, 2016

SHEET 07 OF 14



SEE SHEET 07 FOR AREA 1

PROPOSED CONDITIONS – AREA 2

NOTES

1. REPAIR UNDERMINING AT APPROACH SLAB TO EXISTING TIMBER PIER. INSTALL FLOWABLE FILL AND STONE SLOPE PROTECTION (140 SF).
2. PLACE CLEAN SAND FILL MATERIAL TO CONSTRUCT LIVING SHORELINE (SEE SHEET 07, NOTE 3).
3. CONSTRUCT ENHANCED STONE BREAKWATER, 105 LF AT CREST. INCREASE CREST ELEVATION AND ARMOR STONE SIZE FOR SHORELINE EROSION PROTECTION.
4. REGRADE AREA BEHIND EXISTING AND ENHANCED BREAKWATERS (9,500 SF). INSTALL MARSH PLANTINGS.
5. REPAIR 85 LF OF STONE SLOPE PROTECTION ALONG THE EXISTING SEAWALL.
6. EXTEND STONE SLOPE PROTECTION 75 LF (600 SF) ALONG THE EXISTING SEAWALL TO PREVENT UNDERMINING.

LEGEND

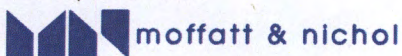
- MHW— MEAN HIGH WATER
- 2 — EXISTING CONTOUR

DATUM

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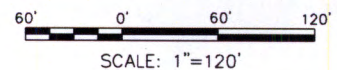
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AGENT/ENGINEER:



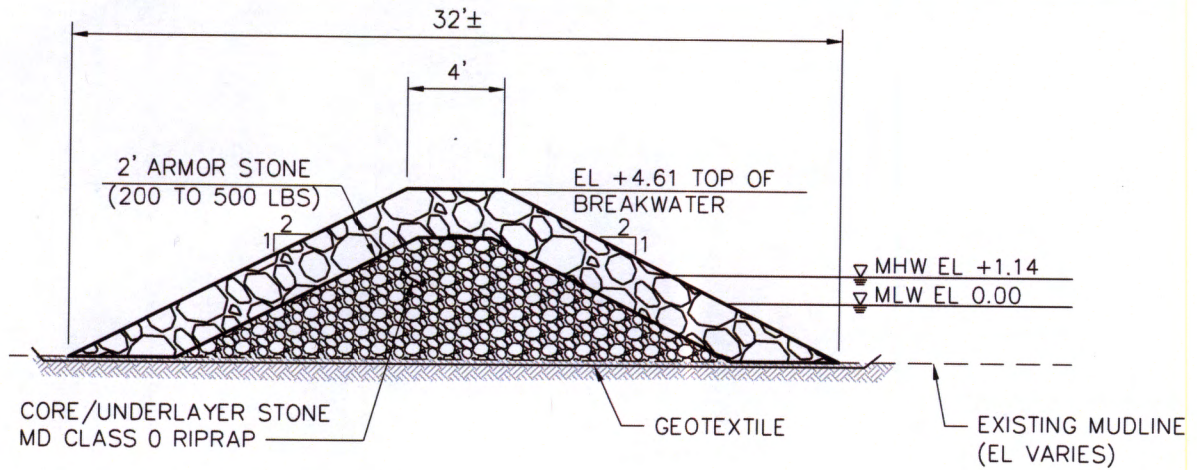
**WATERSEDGE PARK
 SHORELINE EROSION CONTROL
 AND ENHANCEMENT**

PROJECT LOCATION:
 BEAR CREEK
 BALTIMORE COUNTY, MARYLAND

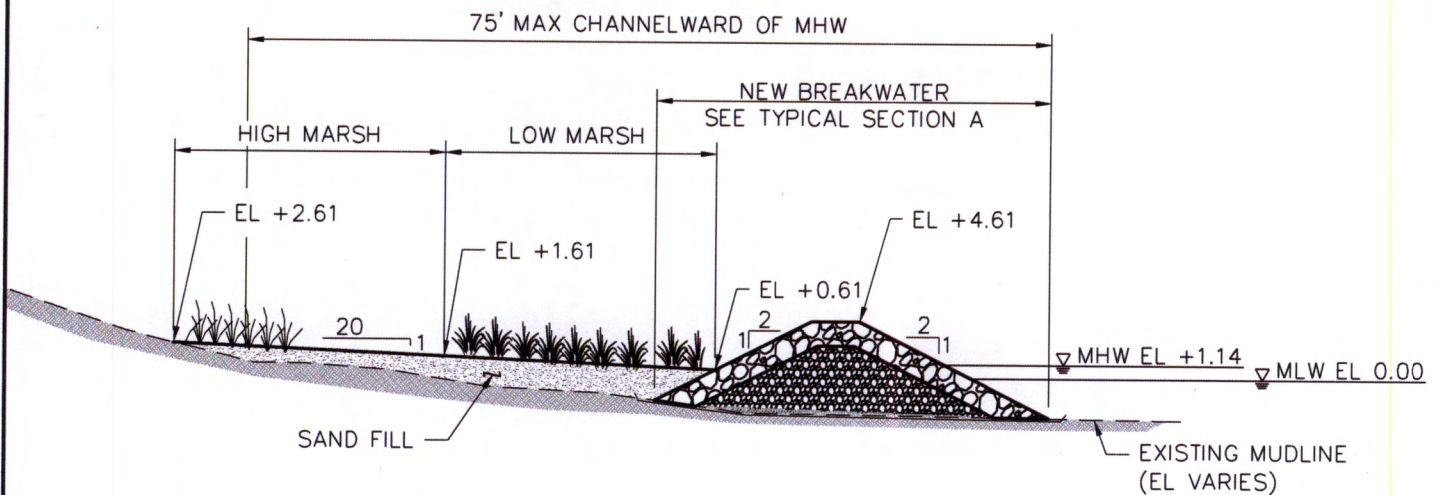


DATE: APRIL 20, 2016

SHEET 08 OF 14



A
07
TYPICAL SECTION – NEW BREAKWATER AND GROIN
SCALE: 1"=8'

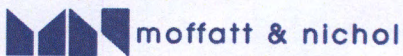


B
07
TYPICAL SECTION – LIVING SHORELINE WITH BREAKWATER
SCALE: 1"=16'

TYPICAL SECTIONS A & B

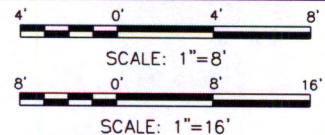
APPLICATION BY:
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9831 VAN BUREN LANE
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AGENT/ENGINEER:



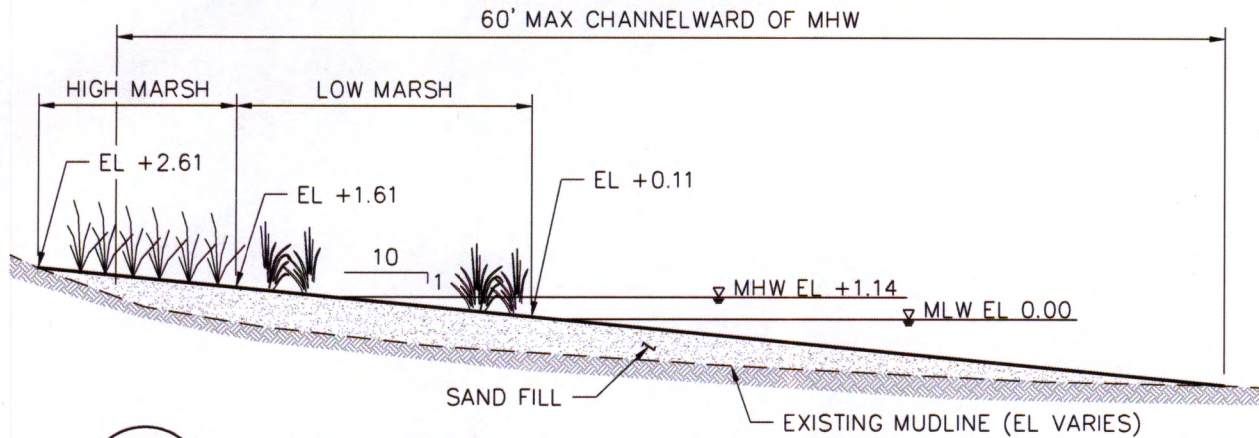
**WATERSEdge PARK
SHORELINE EROSION CONTROL
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PROJECT LOCATION:
BEAR CREEK
BALTIMORE COUNTY, MARYLAND

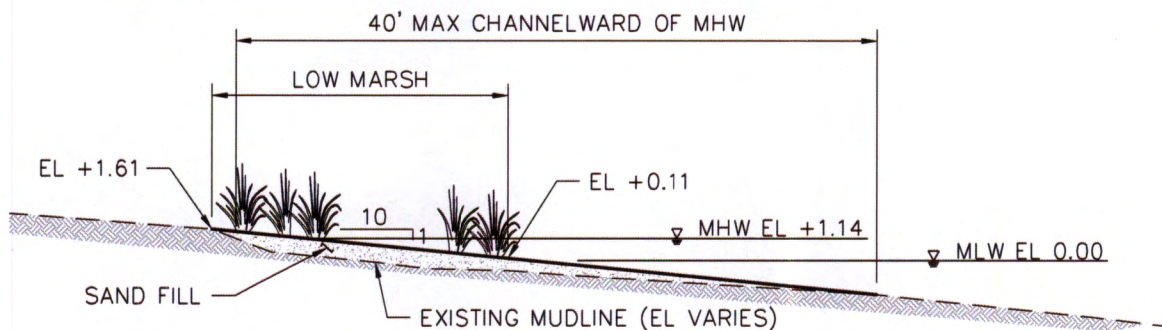


DATE: APRIL 20, 2016

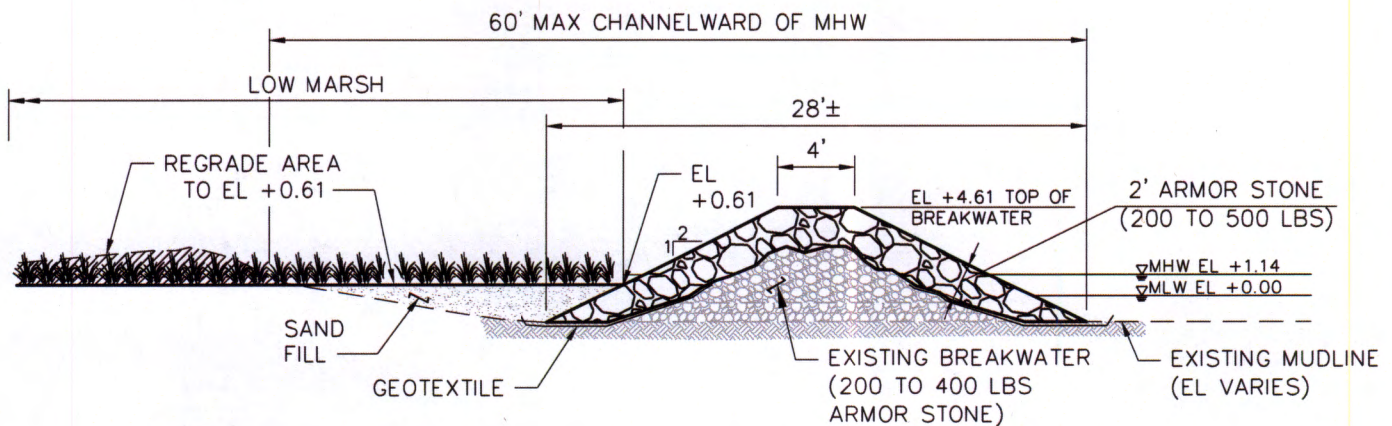
SHEET 09 OF 14



C
07
TYPICAL SECTION - LIVING SHORELINE BETWEEN GROINS
SCALE: 1"=10'



D
08
TYPICAL SECTION - LIVING SHORELINE
SCALE: 1"=10'

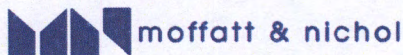


E
08
TYPICAL SECTION - ENHANCED BREAKWATER
SCALE: 1"=10'

TYPICAL SECTIONS C, D, & E

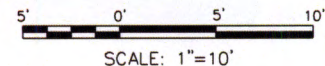
APPLICATION BY:
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9831 VAN BUREN LANE
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AGENT/ENGINEER:



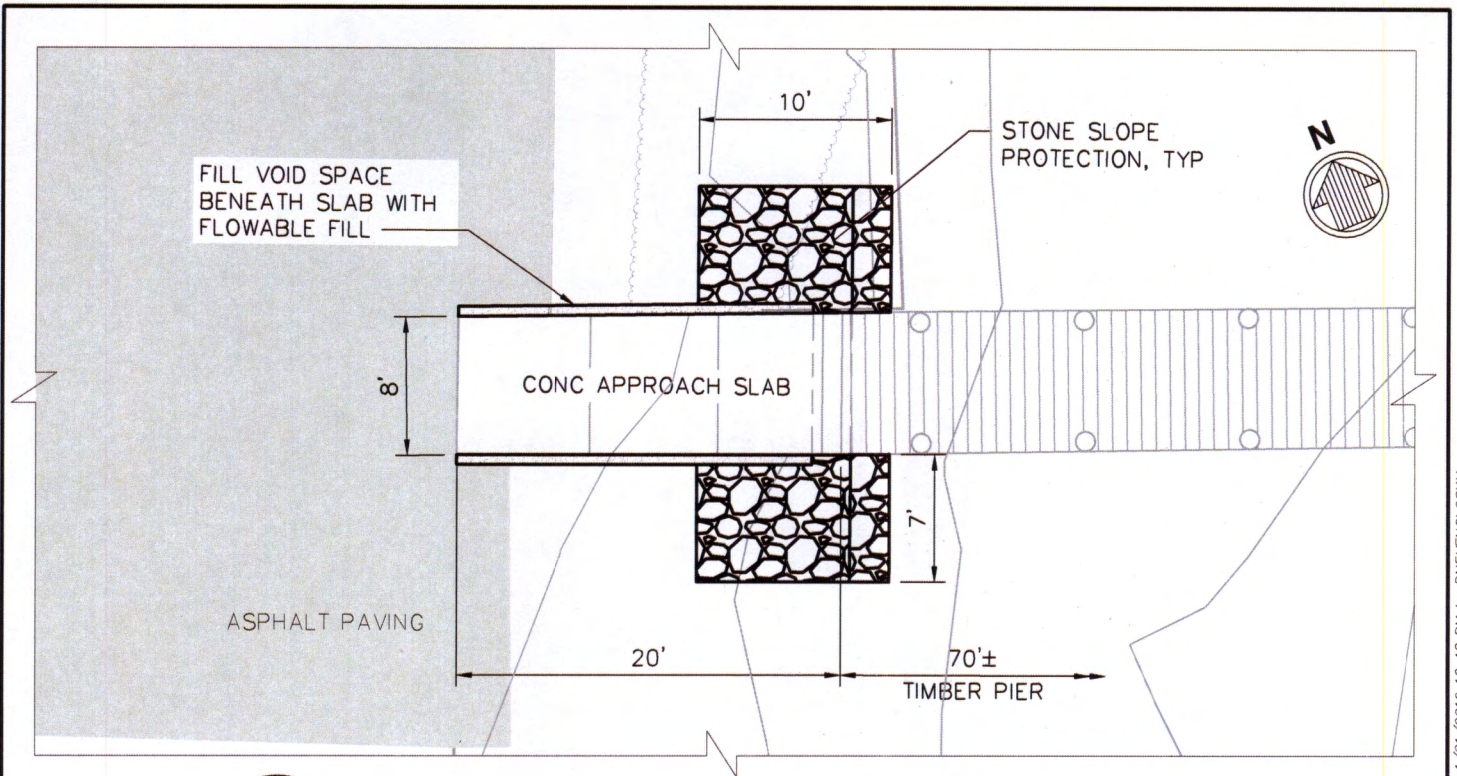
WATERSEDGE PARK
SHORELINE EROSION CONTROL
AND ENHANCEMENT

PROJECT LOCATION:
BEAR CREEK
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DATE: APRIL 20, 2016

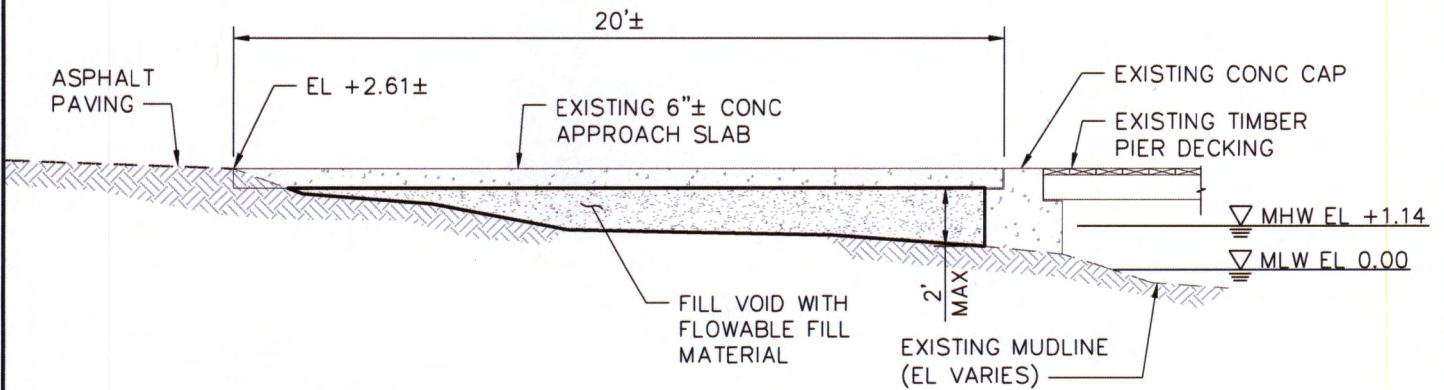
SHEET 10 OF 14



F
08

PLAN – PIER APPROACH SLAB REPAIR

SCALE: 1"=10'



G
08

TYPICAL SECTION – PIER APPROACH SLAB REPAIR

SCALE: 1"=5'

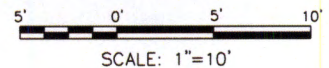
APPLICATION BY:
BALTIMORE COUNTY
DEPT OF RECREATION AND PARKS
9831 VAN BUREN LANE
COCKEYSVILLE, MD 21030

AGENT/ENGINEER:



WATERSEDGE PARK
SHORELINE EROSION CONTROL
AND ENHANCEMENT

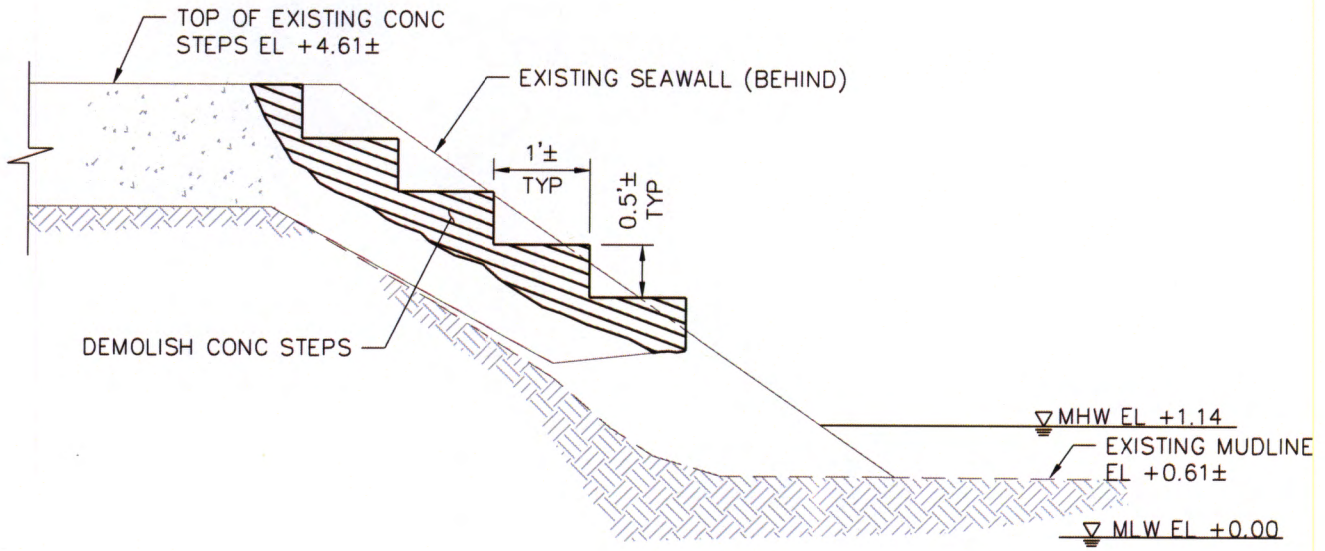
PROJECT LOCATION:
BEAR CREEK
BALTIMORE COUNTY, MARYLAND



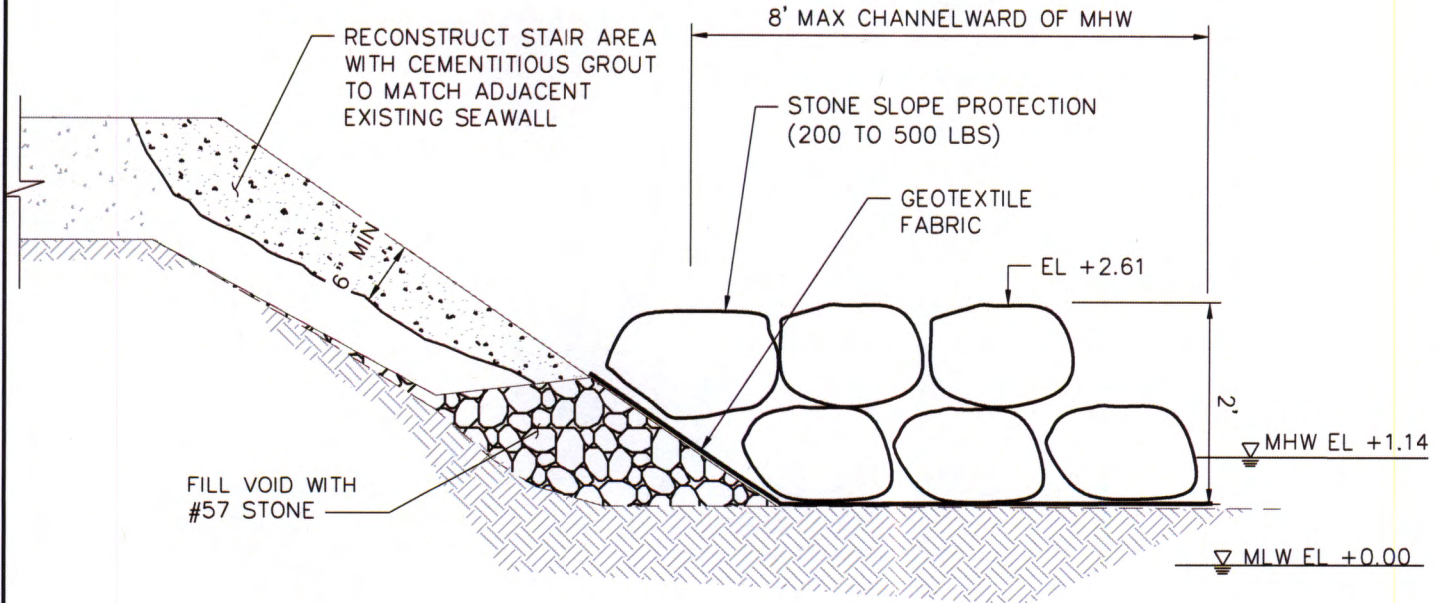
SCALE: 1"=10'

DATE: APRIL 20, 2016

SHEET 11 OF 14



H
06
TYPICAL SECTION – CONCRETE STAIRS DEMOLITION
SCALE: 1"=2'



I
06
TYPICAL SECTION – CONVERT STAIRS TO SEAWALL
SCALE: 1"=2'


TYPICAL SECTIONS H & I

APPLICATION BY:
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COCKEYSVILLE, MD 21030

AGENT/ENGINEER:
 **moffatt & nichol**

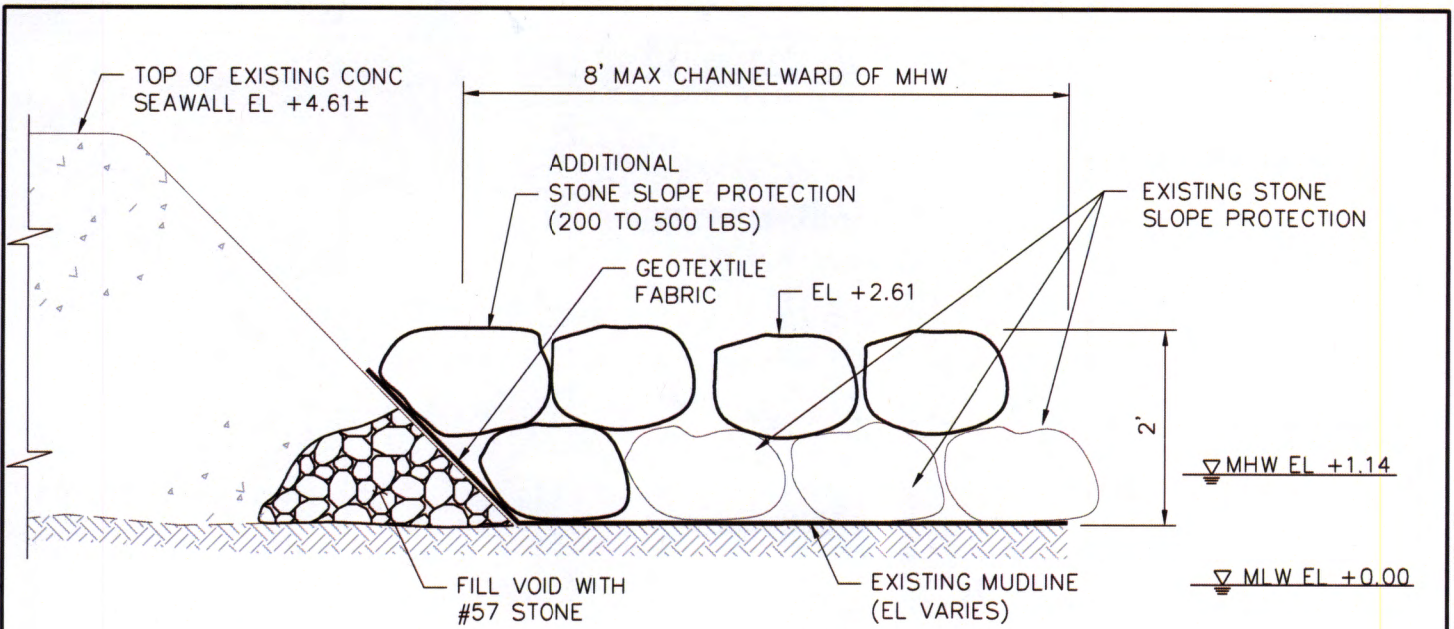
**WATERSEdge PARK
SHORELINE EROSION CONTROL
AND ENHANCEMENT**

PROJECT LOCATION:
BEAR CREEK
BALTIMORE COUNTY, MARYLAND

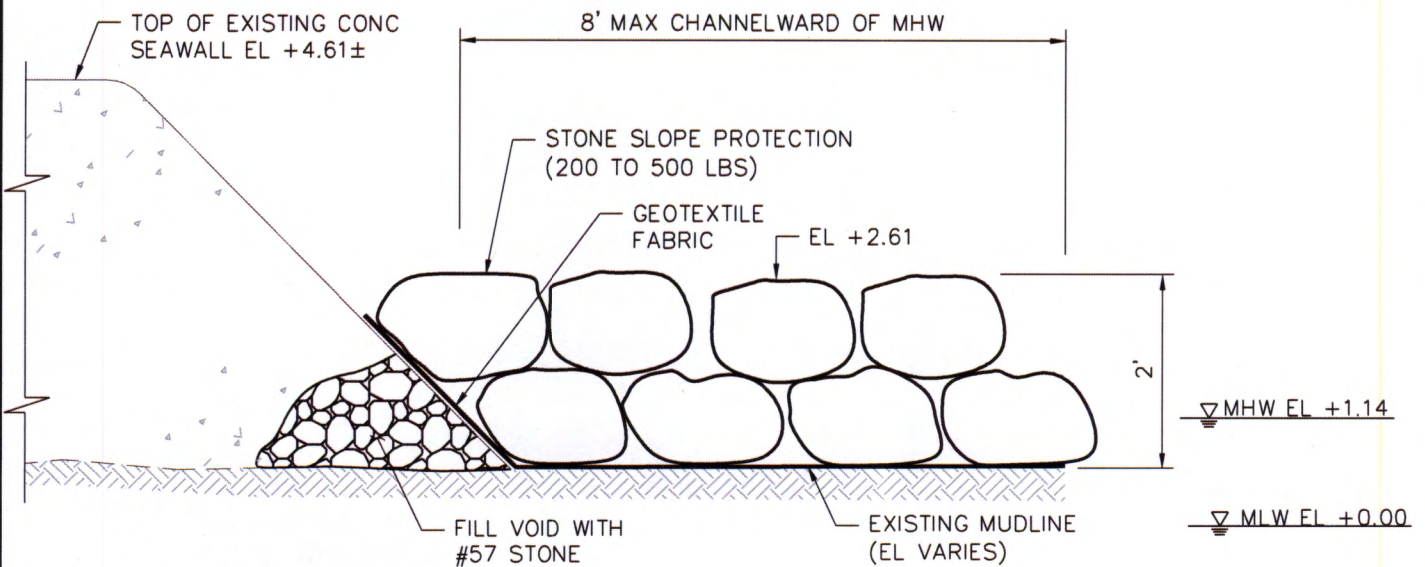

SCALE: 1"=2'

DATE: APRIL 20, 2016

SHEET 12 OF 14



J
08
TYPICAL SECTION - STONE SLOPE PROTECTION REPAIR
SCALE: 1"=2'



K
08
TYPICAL SECTION - STONE SLOPE PROTECTION EXTENSION
SCALE: 1"=2'

TYPICAL SECTIONS J & K

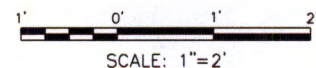
APPLICATION BY:
BALTIMORE COUNTY
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COCKEYSVILLE, MD 21030

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SHEET 13 OF 14

TYPICAL MARSH PLANTINGS

LOW MARSH

- SPARTINA ALTERNIFLORA (SMOOTH CORDGRASS)
- SCHOENOPLECTUS PUNGENS (COMMON THREE-SQUARE)
- SCHOENOPLECTUS AMERICANUS (CHAIRMAKER'S BULRUSH)

HIGH MARSH

- SPARTINA PATENS (SALTMARSH HAY)
- SPARTINA ALTERNIFLORA (SMOOTH CORDGRASS)
- SCHOENOPLECTUS AMERICANUS (CHAIRMAKER'S BRUSH)
- DISTICHLIS SPICATA (SALTGRASS)
- SOLIDAGO SEMPERVIRENS (SEASIDE GOLDENROD)
- SCHOENOPLECTUS ROBUSTUS (SALTMARSH BULRUSH)
- PANICUM VIRGATUM (SWITCHGRASS)
- HIBISCUS MOSCHEUTOS (SWAMP ROSE MALLOW)

HIGH MARSH BUFFER

- SPARTINA PATENS (SALTMARSH HAY)
- SCHOENOPLECTUS AMERICANUS (CHAIRMAKER'S BRUSH)
- DISTICHLIS SPICATA (SALTGRASS)
- SOLIDAGO SEMPERVIRENS (SEASIDE GOLDENROD)
- SCHOENOPLECTUS ROBUSTUS (SALTMARSH BULRUSH)
- PANICUM VIRGATUM (SWITCHGRASS)
- HIBISCUS MOSCHEUTOS (SWAMP ROSE MALLOW)
- BACCHARIS HALIMIFOLIA (GROUNDSEL)
- IVA FRUSTESCENS (MARSH ELDER)
- MORELLA CYRIFERA (WAX MYRTLE)

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