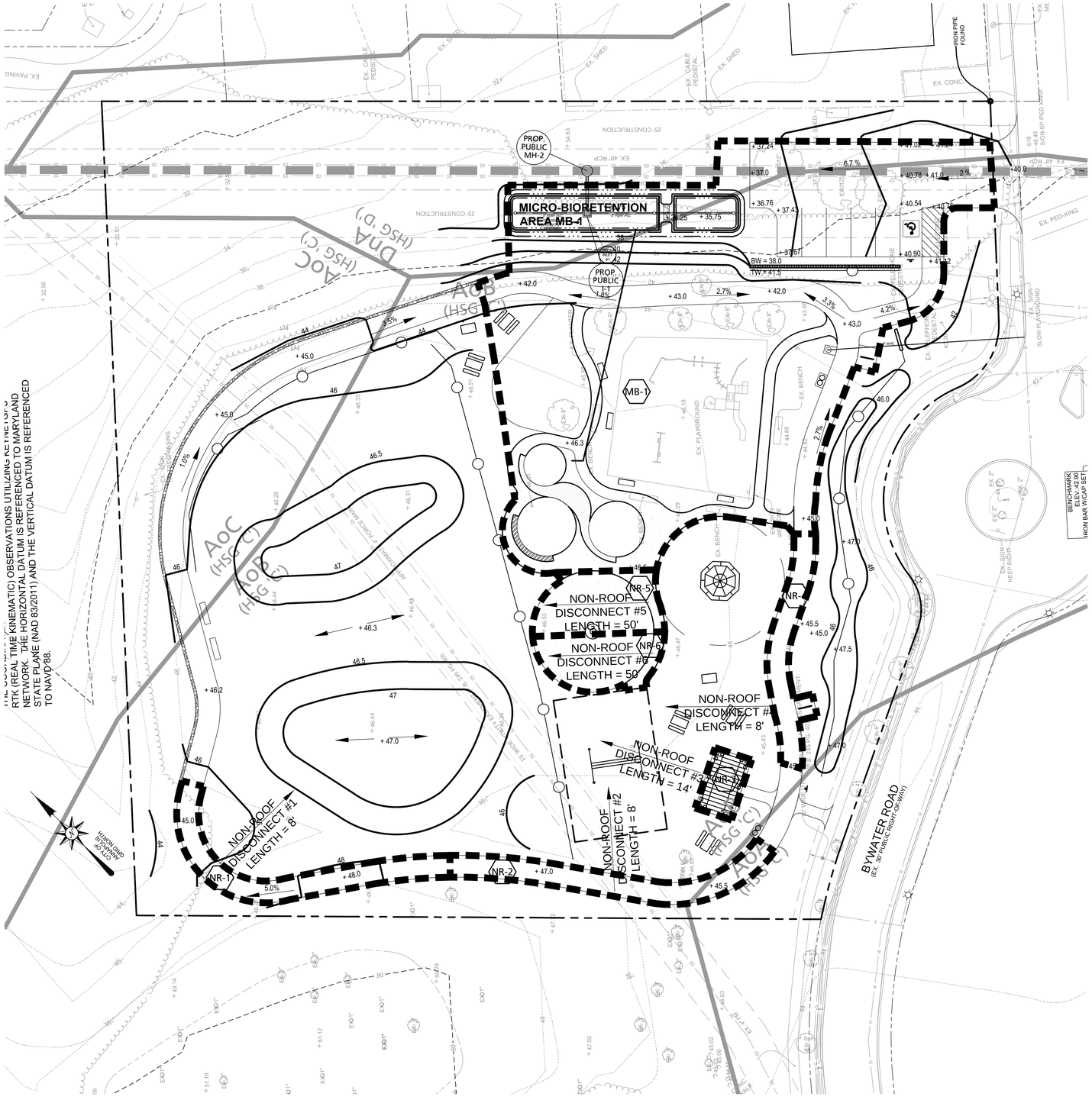

S.W.M. SUMMARY NOTE

STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED IN ACCORDANCE WITH THE MDE 2000 MARYLAND STORMWATER DESIGN MANUAL. THIS DEVELOPMENT IS CLASSIFIED AS NEW DEVELOPMENT. STORMWATER MANAGEMENT IS PROVIDED FOR THE SITE AS FOLLOWS:

- ESDV COMPUTATIONS FOR NEW DEVELOPMENT SHOW THAT THE ESDV REQUIRED IS 1,670 CF. ONE MICRO-BIORETENTION AREA AND SIX NON-ROOF DISCONNECTIONS PROVIDE 2,354 CF OF ESDV.
- CHANNEL PROTECTION VOLUME REQUIREMENTS ARE MET THROUGH THE USE OF MICRO-SCALE PRACTICES WITHIN THE ESDv VOLUME. THESE PRACTICES ARE LISTED ABOVE.
- OVERBANK FLOOD PROTECTION, OR MANAGEMENT OF THE 10-YEAR STORM EVENT, IS PROVIDED THROUGH THE USE OF MICRO-SCALE PRACTICES AND THE REDUCED RCN METHOD. RUNOFF FROM MICRO-BIORETENTION AREA WILL CONNECT TO THE EXISTING STORM DRAIN. THE REMAINING RUNOFF WILL SHEET FLOW TO THE SITE OUTFALL.
- EXTREME FLOOD PROTECTION, OR MANAGEMENT OF THE 100 YEAR STORM EVENT IS NOT REQUIRED FOR THIS SITE. THERE IS NO EVIDENCE OF EROSION OR SEDIMENTATION AT THE SITE OUTFALLS.

S.W.M. STRUCTURE

STORMWATER MANAGEMENT STRUCTURE SUMMARY TABLE

Project Name: Park at Bywater					Project No.:		Subdiv. No.:		
Bay Eng. No.: 14-5028		Design By:	JMVO	Date:	April 2016	Tax Map/Block/Parcel:		51E/14/250	
Overall DA	Practice	Structure No.	Type	Location		Drainage Area Treated (acres)	Runoff from 1-Yr 24-Hr. Storm	Water Quality Volume (Cu. Ft.)	Actual Device Volume (Cu. Ft.)
A	Micro-Bioretention	MB-1	M-6	18606	15669	0.459	1,970.26	1,968.14	1,968.14
	Non-Roof Disconnection	NR-1	N-2			0.023	212.77	78.80	78.80
	Non-Roof Disconnection	NR-2	N-2			0.022	208.93	77.38	77.38
	Non-Roof Disconnection	NR-3	N-2			0.008	70.09	25.96	25.96
	Non-Roof Disconnection	NR-4	N-2			0.017	160.53	59.45	59.45
	Non-Roof Disconnection	NR-5	N-2			0.023	210.39	77.92	77.92
	Non-Roof Disconnection	NR-6	N-2			0.019	178.59	66.15	66.15
					Total	0.570	3,011.55	**2,353.80**	2,353.80
					ESD$_v$ Required			**1,670.15**	

DRAINAGE AREA LEGEND

PROPERTY LINE / RIGHT-OF-WAY

DRAINAGE AREA BOUNDARY LINE

DRAINAGE AREA DESIGNATION

SF1

Revisions

Rev. #	By	Date	Description

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

Terry Schuman — Date 3/31/18
License No. 19593 — Expiration Date

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CIVIL ENGINEERS
Bay Engineering Inc.
Engineers, Planners and Surveyors

Date APRIL 2016
Job Number 14-5028
Scale 1"=20'
Drawn By JMVO
Approved By TS
Folder Reference BYWATER PARK

ESD DRAINAGE AREA PLAN

GRADING AND SEDIMENT & EROSION CONTROL PLAN
OF

THE PARK AT BYWATER

TAX MAP 51E, BLOCK 14, PARCEL 250
OPEN SPACE "B" BYWATER ROAD
CITY OF ANNAPOLIS, MARYLAND 21401
SIXTH DISTRICT ANNE ARUNDEL COUNTY ZONED OPEN SPACE

Sheet No. 8 OF 14

PLOTTED: Apr 28, 2016 - 11:19am
INCLUDED XREFS & IMAGES: Title 24x36.dwg BASE-GRADE.dwg BASE-SURVEY.DWG topo map.dwg

F:\14-5028 City of Annapolis The Park at Bywater - Deborah Schwab\Drawing Files\Grading\14-5028-GP-08-ESD-DAM.dwg