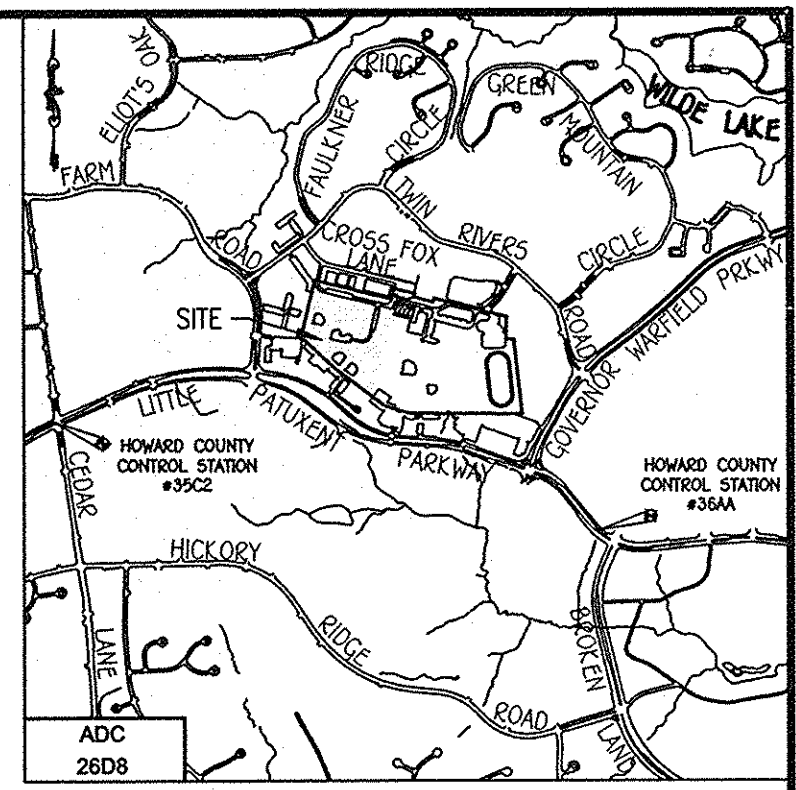


DESIGN NARRATIVE

- Natural Resources Protection Enhancement: The proposed new school building will not impact site wetlands, wetland buffers, and forests. There are no on-site floodplains or steep slopes. Therefore, these resources are not impacted. Groundwater recharge will be provided to compensate for existing and paved areas in the LODs.
- Maintenance of Natural Flow Patterns: There is no significant on-site grading that will alter drainage patterns. Stormwater generally flows to the same location after development as before development. In addition, the post-development one (1) year peak flows are not expected to increase due to the ESDv in the BMPs.
- Reduction of impervious areas through better site design, alternative surfaces, non-structural practices: The SWM concept is consistent with ESD practices. The new school is being built on a site of the previous school. Hence, existing impervious surface will be used where practicable. The use of alternative surfaces was precluded by the presence of existing HSG "D" soil.
- Integration of E&SC into SWM strategy: The E&SC design will follow HSCD standards & specifications and will meet the goal of keeping sediment from leaving the site. The practices will be integrated in SWM strategy by embracing sheet flow patterns where practicable and is a preferred ESD practice.
- Implementation of ESD planning techniques and practices: Non-rooftop disconnection credit will be utilized where practicable. The new development is proposed on existing impervious areas as much as reasonable.



VICINITY MAP
SCALE: 1" = 2000'

BENCHMARK INFORMATION

SITE DATA
 Site/Parcel Area: 52.2± acres (Includes High School)
 Wetlands and Wetland Buffers: None in the proposed LOD
 Floodplain: 0.0 acres in the proposed LOD
 Forests: None in LOD
 Forest Conservation Easement: 0.0 acres
 Steep Slopes: None in proposed LOD
 Erodible Soils: None in proposed LOD
 LOD: 563,400 sf
 Site Uses: Middle and High School, Parking, Ballfields, SWM Facilities.
 File References: S-87-66, P-87-70, F-88-55, F-89-85, F-90-125, F-91-69, F-93-23, ZB-1086A, WP-11-150, F-11-57, F-12-326, ECP-11-046, WP-11-147, S-11-101, SIP-89-275, SIP-90-041, SIP-93-055, VPI2-109, F-12-026, SDP-12-075.
 Green Open Area: N/A
 Environmental Waivers for Necessary Disturbance: N/A

B.M.#1 - HOWARD COUNTY CONTROL STATION #352 - HORIZONTAL - (NAD '83)
 LOCATED IN THE ISLAND NEAR THE INTERSECTION OF CEDAR LANE & LITTLE PATUXENT PARKWAY, APPROX. 4.56' BEHIND THE CURB AND 10' NORTH OF METAL POST.
 N 563,920.837 E 1,344,204.123
 ELEVATION = 463.411 - VERTICAL - (NAVD '80)

B.M.#2 - HOWARD COUNTY CONTROL STATION #364A - HORIZONTAL - (NAD '83)
 LOCATED ALONG LITTLE PATUXENT PARKWAY NEAR THE INTERSECTION OF BROKEN LAND PARKWAY, APPROX. 1.5' BEHIND THE CURB AND 2' OFF EDGE OF SIDEWALK.
 N 562,804.955 E 1,349,906.173
 ELEVATION = 359.173 - VERTICAL - (NAVD '80)

(3.05 Acs) FINAL CONDITIONS
 132,800 sf DA NT
 TBD 6 1.4 %
 NO BMP TREATMENT

(3.05 Acs) TEMP. CONDITIONS
 132,800 sf DA NT
 86 6 33.4 %
 NO BMP TREATMENT

(1.58 acs)
 66,720 sf DA NT
 TBD 2 69.2%
 TO BMP #2

(1.23 acs)
 53,480 sf DA NT
 TBD 1 74.3%
 TO BMP #1

(12.93 Ac.)
 563,400 sf LOD NT
 35.4%

SOILS TABLE
 Soils Maps: No. 17 (Clarksville NE), and No. 18 (Savage NW)

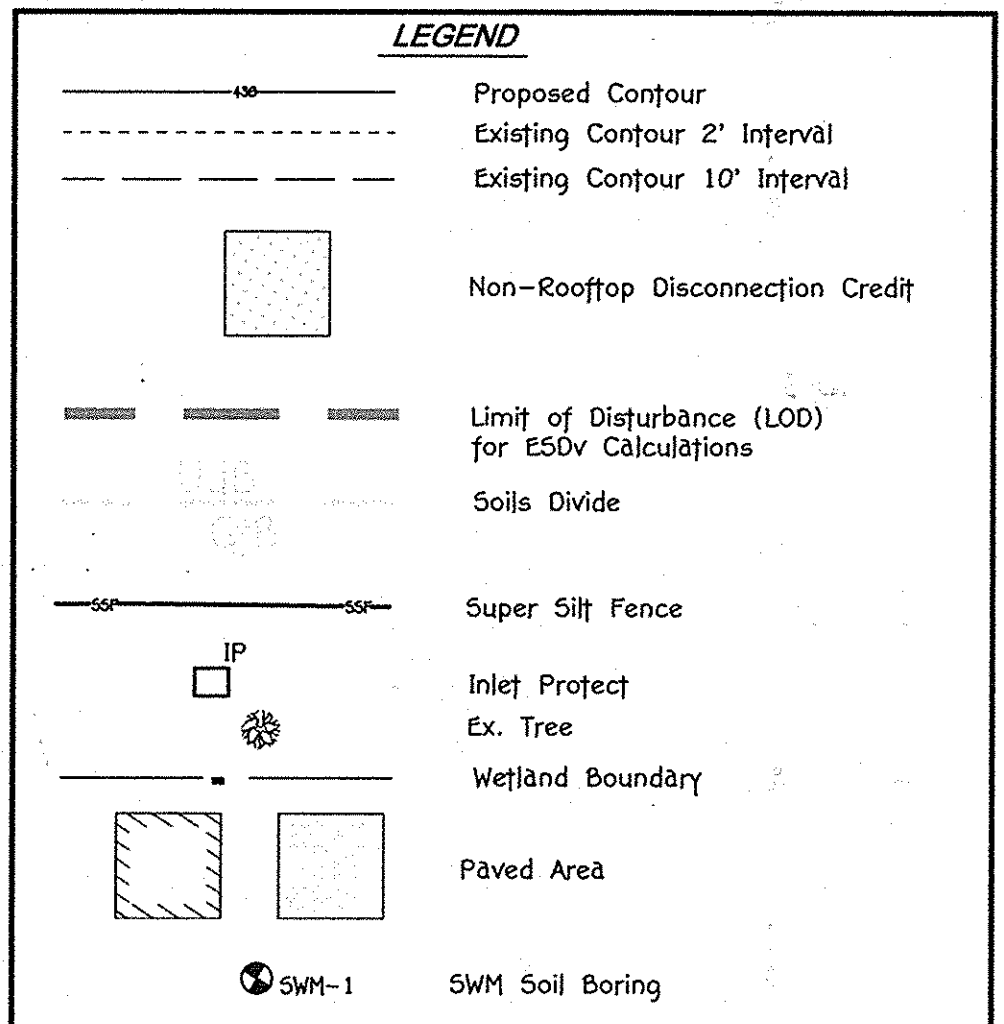
NAME	HSG
Baile silt loam, 0-3% Slopes K Value = 0.32	D
Cladstone-Urban complex, 0-8% Slopes K Value = 0.20	B
Urban Land, Udorhents complex, 0-8% Slopes K Value = Not defined by NRCS	D

**WILDE LAKE MIDDLE SCHOOL
 BMP / ESDv SUMMARY TABLE**

DA	DRAINAGE AREA (sf)	IMPERV. AREA (sf)	Pe	% IMP	Rv	Calculated ESDv (cf)	75% ESDv (cf)	BMP Volume (cf)
1	53,480	39,727	2.07	74.3	0.719	6,629	4,972	5,020
2	68,720	47,584	1.80	69.2	0.673	6,939	5,204	4,905
3	55,400	35,708	2.00	64.5	0.630	5,818	4,363	5,135
4	119,600	66,962	1.84	56.0	0.554	10,158	7,618	10,115
TOTALS	297,200	189,981				29,544	22,158	25,175

**WILDE LAKE MIDDLE SCHOOL
 TEMPORARY SWM POND SUMMARY TABLE**

	Maximum Required Storage (cf)	Available Storage (cf @ elev.)
Temporary SWM Pond	14,716	15,790 @ 438.0



(1.26 Acs)
 80,830 sf DA NT
 TBD 5 6.3 %
 NO BMP TREATMENT; PARTIAL N-R DISCONNECTION SWM CREDIT

55,400 sf DA NT
 TBD 3 64.5%
 TO BMP #3

(2.75 Acs)
 119,600 sf DA NT
 TBD 4 56.0%
 TO BMP #4

**WILDE LAKE MIDDLE SCHOOL
 SWM SUMMARY TABLE**

Location	AREA (sf)	IMPERV. AREA (sf)	Required ESDv (cf)	BMP Volume (cf)
DA to BMPs	297,200	189,981	22,406 ^a	25,175
Outside BMPs	266,200	9,630	1,819 ^b	0
TOTALS	563,400	199,611	24,225	25,176^c

^a This value represents 75% of the calculated ESDv for all areas draining to the BMPs.
^b This value represents 100% of the calculated ESDv for all areas not draining to the BMPs.
^c This value is the sum of the four (4) BMP volumes in the first 12" depth.

OWNER & DEVELOPER
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: BRUCE GIST
 410-313-6805

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 6-12-14
 Chief, Division of Land Development Date

[Signature] 6-13-14
 Chief, Development Engineering Division Date

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

LIBER/FOLIO	GRID	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
0506/0213	24	NT	29	5th	605A.02

ENVIRONMENTAL CONCEPT PLAN

**WILDE LAKE MIDDLE SCHOOL
 "PUBLIC SCHOOL"**

10481 Cross Fox Lane, Columbia, MD
 Tax Map 29 Parcel 280

5th ELECTION DISTRICT HOWARD COUNTY, MD
 SCALE: 1" = 50' DATE: APRIL 24, 2014 SHEET 1 of 1

I hereby certify that these documents were prepared under my supervision and that I am a duly licensed professional engineer under State of MD laws. License No. 13,204 w/expiration November 3, 2014

GENERAL ECP NOTES

- Stormwater management has been provided with ESD to the MEP. Specifically, four (4) micro-bioretention facilities and non-rooftop disconnection credit will address the stormwater management for this site. Please refer to the ECP Report prepared by Fisher, Collins & Carter, Inc. dated April 24, 2014 for more information.
- The Boundary and Topography shown on this plan was field surveyed by Fisher, Collins & Carter, Inc., Ellicott City, MD in January, 2014.
- Howard County approval of this ECP does not guarantee approval of subsequent plans (e.g., subdivision and/or site development plans).

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2955

I:\2011\10551\Engineering\DWG\WILMS_ECP_to_Dale_5-1-14.dwg, Model: 6/11/2014 7:38:04 AM, 1:50