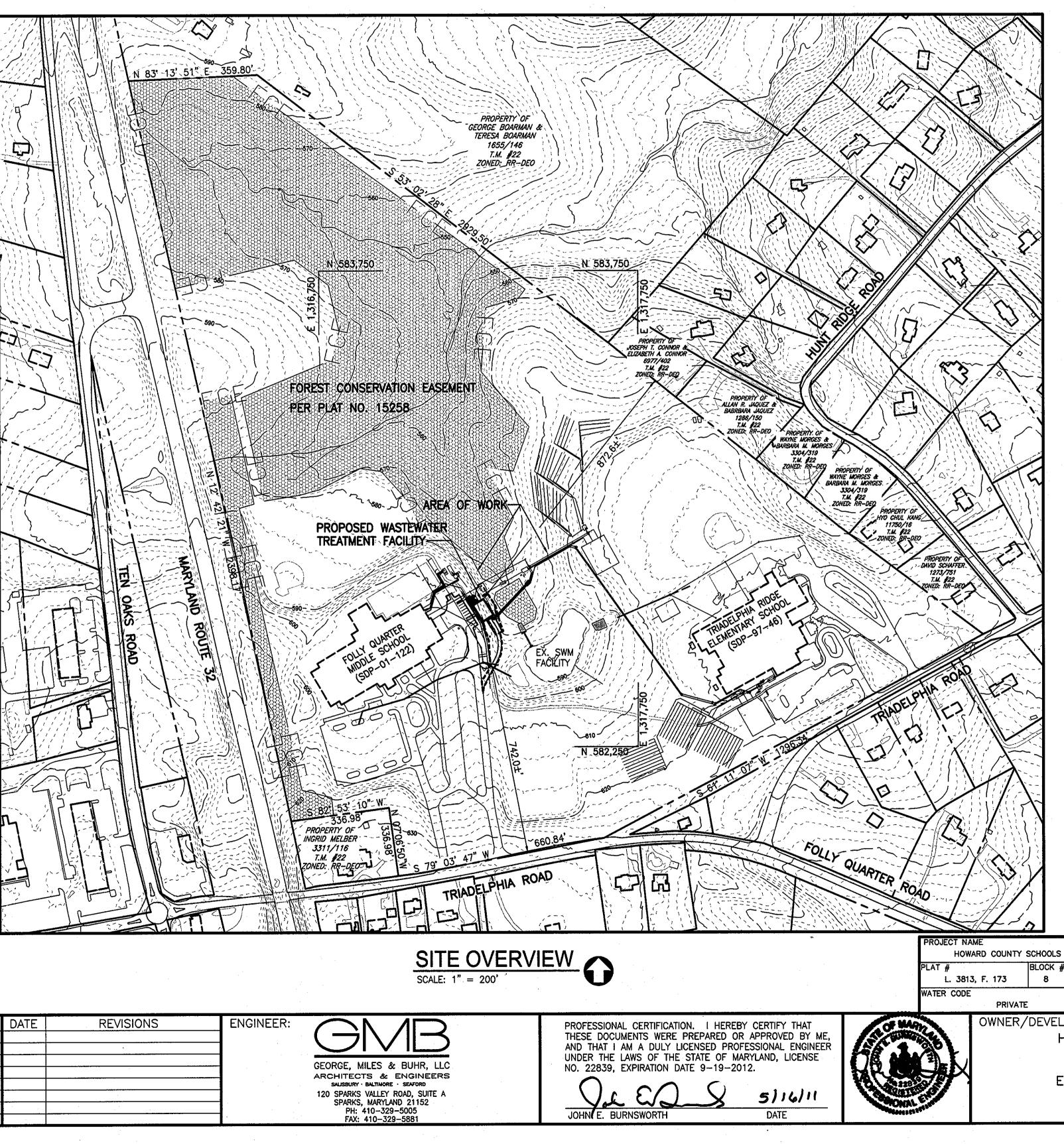
	SHEET INDEX	
NO.	DESCRIPTION	
1	TITLE SHEET	
2	OVERALL SITE PLAN	· · · · · · · · · · · · · · · · · · ·
3	ENLARGED SITE PLAN A	
4	ENLARGED SITE PLAN B	· .

# ENVIRONMENTAL CONCEPT PLAN HOWARD COUNTY BOARD OF EDUCATION FOLLY QUARTER MIDDLE & TRIADELPHIA RIDGE ELEMENTARY SCHOOLS WASTEWATER TREATMENT FACILITY **3rd ELECTION DISTRICT** HOWARD COUNTY, MARYLAND

**DESIGN NARRATIVE** The proposed wastewater treatment plant and facilities were located to avoid, to the maximum extent possible, disturbances to the intermittent stream, forest conservation area, and wetland. The design will achieve natural resource protection and enhancement by limiting the direct discharge of runoff from impervious surfaces on the site to the stream and wetland. Runoff from the building will be discharged to a micro bio-retention system and the access road will be constructed with reinforced turf. The proposed site grade has been designed to mimic natural flow patterns. Reinforced turf is being used for the access road in lieu of an impervious surface. Erosion and sediment controls (ESC) will discharge (where possible) to the existing stormwater management pond. All other ESC will be placed to reduce sediment laden discharges to the wetland and intermittent stream. Impacts to the site were reduced by changing the material for the access road and disconnecting roof drains from the building to route them to the micro-bioretention facility. Stormwater Management systems were selected based on the Marylan Department of the Environment's Stormwater Design Manual. ESD planning techniques and practices were used to the maximum extent practical by using reinforced turf for the access road and the micro-bioretention facility for runoff from the building. Both practices allow recharge into groundwater sources and treat runoff from impervious surfaces.

#### GENERAL NOTES

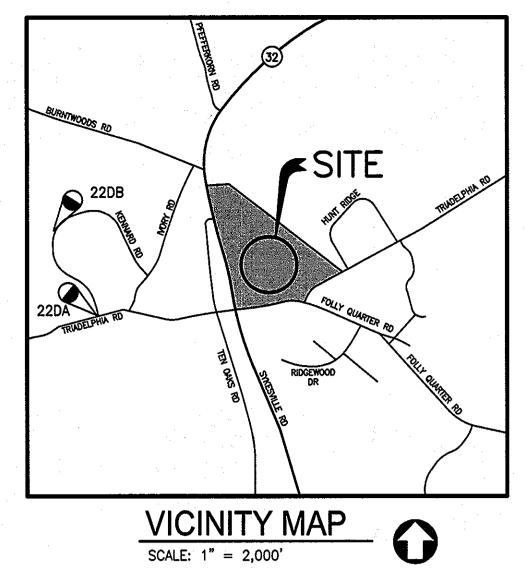
- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 5. ALL PLAN DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING OR CENTERLINE, UNLESS OTHERWISE NOTED.
- 6. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY GEORGE MILES & BUHR, LLC, DATED JUNE, 2010, AND HOWARD COUNTY GIS.
- 7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 22DA & 22DB.
- WATER SERVICE FOR THIS SITE IS PRIVATE.
- SEWER SERVICE FOR THIS SITE IS PRIVATE.
- 10. EXISTING UTILITIES ARE BASED ON FIELD RUN SURVEY AND EXISTING SITE DEVELOPMENT PLANS SDP-97-46 AND SDP-01-122.
- 11. THERE IS NO 100 YR. FLOODPLAIN ON THIS SITE.
- 12. THE WETLAND DELINEATION STUDY FOR THIS SITE WAS PREPARED BY KLEBASKO ENVIRONMENTAL, DATED JULY, 2010.
- 13. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- 14. THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE FEBRUARY 2, 2004, COMPREHENSIVE ZONING PLAN.
- 15. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- 16. ADC MAP: HOWARD COUNTY, MARYLAND, MAP: 9, GRID J-10, COORDINATES: 521,500, 805,000. 17. FOREST CONSERVATION EASEMENTS ON THIS SITE HAVE BEEN ESTABLISHED TO FULFILL
- REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE, FOREST CONSERVATION ACT. NO GRADING OR CONSTRUCTION ARE PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT EXCEPT AS DEFINED IN THE DEED OF FOREST CONSERVATION. OBLIGATIONS HAVE BEEN FULFILLED BY PLACEMENT OF 23.17 ACRES OF EXISTING FOREST AND REGENERATION AREA INTO AN EASEMENT AREA AS SHOWN ON PLAT NO. 15258, RECORDED FEBRUARY 25, 2002.
- 18. THIS PROJECT DOES NOT REQUIRE LANDSCAPING. PERIMETER LANDSCAPING HAS BEEN PREVIOUSLY ADDRESSED UNDER SDP-97-46 AND SDP-01-122.
- 19. APPROVAL OF THIS ECP IS FOR EROSION CONTROL MEASURES AND DOES NOT CONSTITUTE APPROVAL OF LOCATION OF STRUCTURES, LANDSCAPING OR FOREST CONSERVATION WHICH SHALL BE FURTHER REVIEWED UNDER REQUIRED SUBDIVISION AND SITE DEVELOPMENT PLANS, AS APPLICABLE.
- 20. GRADING WITHIN THE STREAM BANK BUFFER IS CONSIDERED ESSENTIAL DISTURBANCE TO INSTALL THE NEW MICRO BIORETENTION FACILITY.



NO.	DATE	REVISIONS
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APPROVED : HOWARD COUNTY DEPARTMENT OF ZONING.	PLANNING AND
Charl Edwards	6-3-11
CHIEF, DEVELOPMENT ENGINEERING DIVISION	4 DATE
Vet Sheulioolu	6/01/11
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE *

(C) COPYRIGHT 2010 GEORGE, MILES & BUHR, LLC



ADC MAP: HOWARD COUNTY, MARYLAND, MAP: 9, GRID J-10, COORDINATES: 521,500, 805,000.

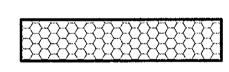
### SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA:	78.67 AC.
LIMIT OF DISTURBED AREA:	1.31 AC.
AREA OF PLAN SUBMISSION:	0.26 AC.
ZONING:	RR-DEO
PROPOSED USE:	ON-SITE PRIVATE WASTEWATER TREATMENT FACILITY
BUILDING COVERAGE:	0.05 AC.
NUMBER OF EMPLOYEES:	UNOCCUPIED BUILDING. TWO EMPLOYEES
DPZ FILE REFERENCES:	SDP-97-46, SDP-01-122
WETLANDS/WETLANDS BUFFER (W/IN LOD):	0.00 AC.
100 YR. FLOODPLAIN (W/IN LOD):	0.00 AC.
FOREST (W/IN LOD):	0.00 AC.
15% & GREATER STEEP SLOPES (W/IN LOD):	0.21 AC.
IMPERVIOUS AREA (W/IN LOD):	0.12 AC.
GREEN OPEN AREA (W/IN LOD):	1.19 AC.
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## LEGEND

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— LOD —

BLOCK # ZONING TAX MA

8 RR-DEO

PRIVATE

OWNER/DEVELOPER:

EXISTING CONTOUR PROPOSED CONTOUR

EX. WOODS LINE

DRAINAGE AREA BOUNDARY

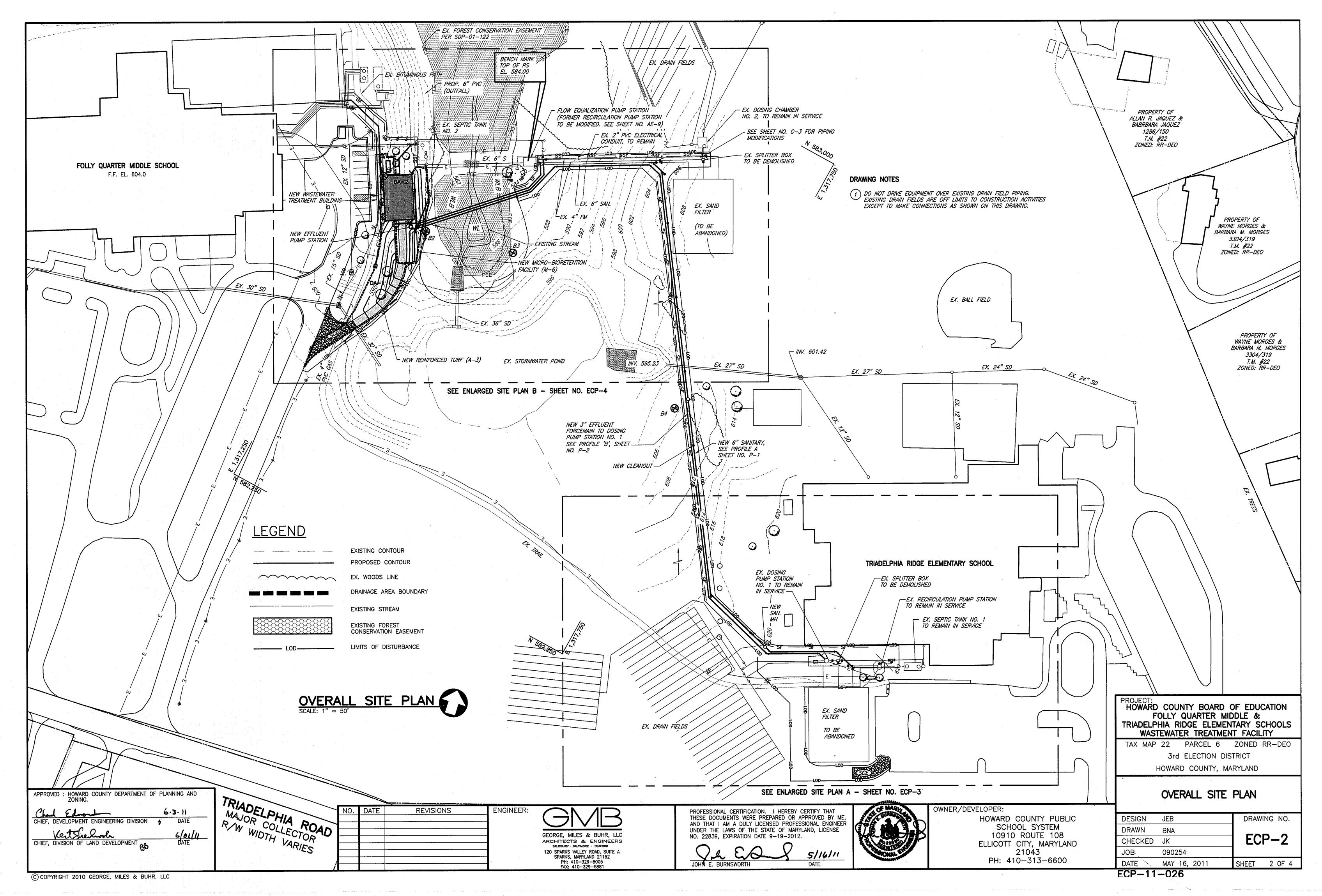
EXISTING STREAM

EXISTING FOREST CONSERVATION EASEMENT

LIMITS OF DISTURBANCE

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				6	13500	TRIADELPHIA RO	AD
				F TRIADELF	D COUNTY BO FOLLY QUARTI PHIA RIDGE E TEWATER TRE	ER MIDDLE LEMENTARY	& SCHOOLS
				TAX MAP	22 PARCE	L 6 ZONE	D RR-DEO
					3rd ELECT	ON DISTRICT	
S	SECT./AREA N/A	PA	RCEL 6		HOWARD COUN		D
# ZONING RR-DEO	TAX MAP NO. 22	ELECT. DIST	CENSUS TRACT 6030				
•	SEWER CODE	PRIVATE			TITLE	SHEET	
LOPER:							
HOWARD COUNTY PUBLIC			DESIGN	JEB	DR/	AWING NO.	
SCHOOL SYSTEM			DRAWN	BNA			
10910 ROUTE 108 ELLICOTT CITY, MARYLAND			CHECKED	JK	<u> </u>	CP-1	
21043			JOB	090254			
PH: 410-313-6600			DATE	MAY 16, 2011	SHEET	1 OF 4	
				10, 201		I I.UF 4+	

ECP-11-026



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3	PUMP STATION NO. 1 SEE PROFILE 'B' SHEET NO. P-2.	NEV TO PUK
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		4
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APPROVED : HOWARD COUNTY DE ZONING.		
APPROVED : HOWARD COUNTY DE ZONING. CHIEF, DEVELOPMENT ENGINEERIN	6.3.11 NO. DATE R	REVISION
Chief, DEVELOPMENT ENGINEERIN	G DIVISION & DATE	REVISIO
Chief, DEVELOPMENT ENGINEERIN	G DIVISION & DATE	
Chief, DEVELOPMENT ENGINEERIN	G DIVISION & DATE	

JOUPTRIGHT ZUTU GEURGE, MILES & BUHR, LLC

