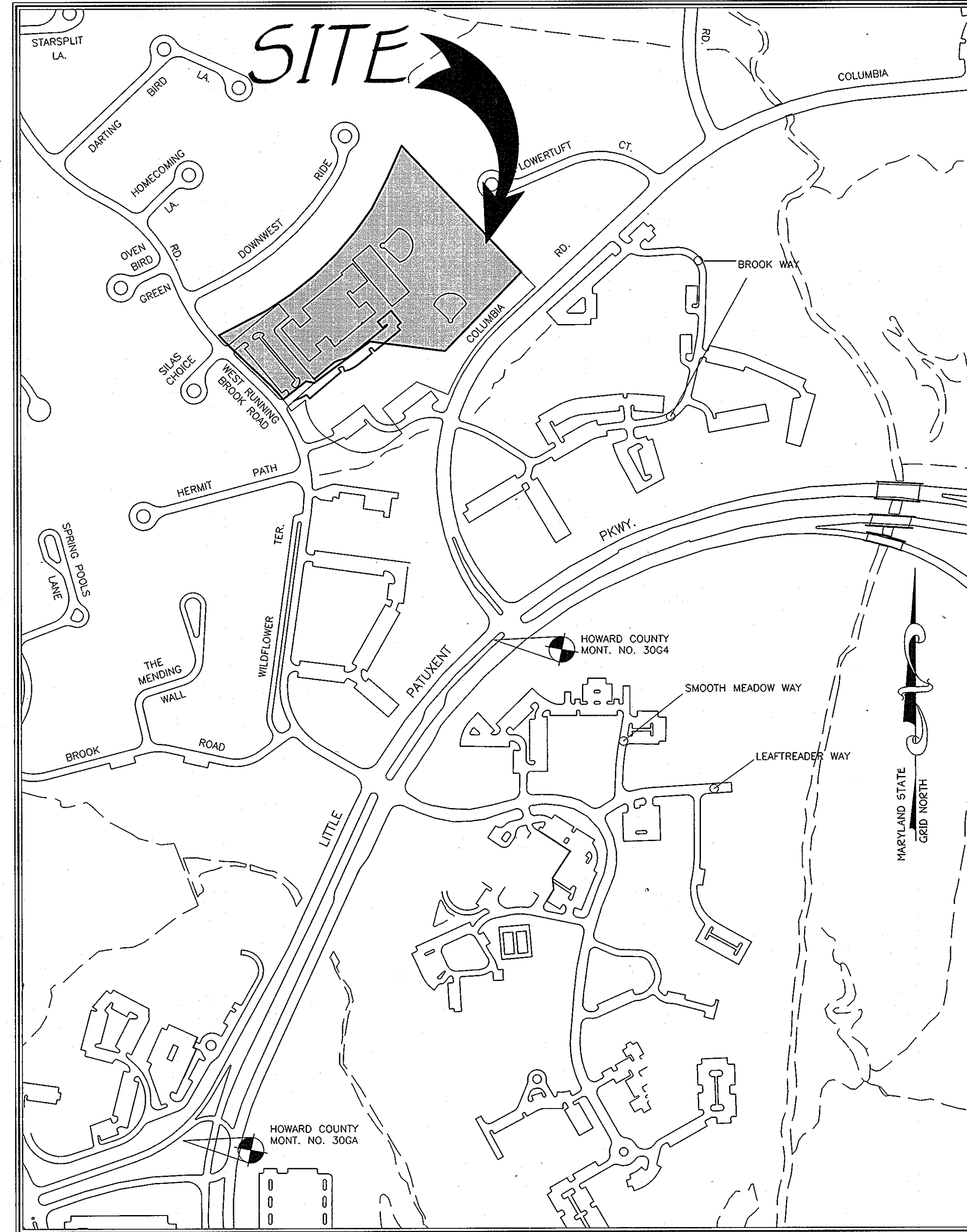
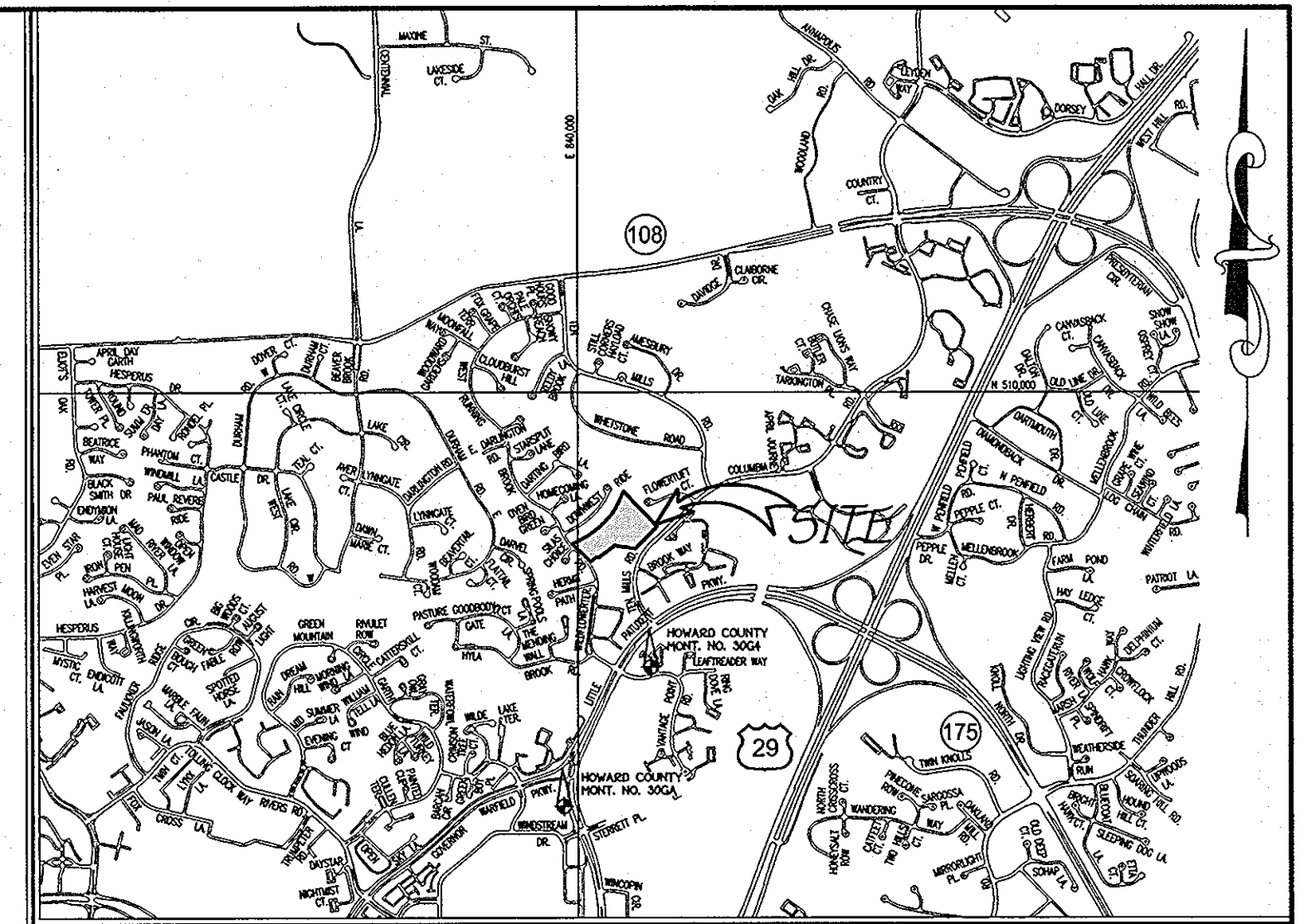


SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT CONTROL PLAN
5	DRAINAGE AREA MAP AND SOILS MAP
6	LANDSCAPE PLAN
7	DETAIL SHEET AND PLANTING SPECIFICATIONS
8	SOIL BORING PROFILES, SWM STORM DRAIN PROFILE AND STRUCTURE SCHEDULE
9	SEDIMENT CONTROL NOTES AND DETAILS
10	DEMOLITION PLAN, SEDIMENT AND EROSION CONTROL PLAN
11	SITE IMPROVEMENT PLAN
12	BUILDING ADDITIONS AND DEMOLITION PLAN ELEVATIONS
13	STORM DRAIN PROFILES, STRUCTURE SCHEDULE AND DETAILS
14	SEDIMENT CONTROL NOTES AND BUILDING ELEVATIONS

SITE DEVELOPMENT PLAN RUNNING BROOK ELEMENTARY SCHOOL COLUMBIA VILLAGE OF WILDE LAKE SECTION 9 AREA 5 LOT 78 AND OPEN SPACE LOT 79



LOCATION PLAN
SCALE: 1" = 300'

SITE ANALYSIS DATA

- General Site Data:
 - Present Zoning: NEWTOWN OPEN SPACE.
 - Present use of site or structure: Institutional; Public School
 - Public water and sewer to be utilized.
- Area Tabulation:
 - Total project area: 9.00 Ac.
 - Area of this plan submission: 1.89 Ac. is the limit of submission and grading disturbance for the construction of the parking lot addition.
 - Impervious Coverage Proposed Paved Areas (Access Road, Parking and Walkways) and Building Additions = 54,000 sq ft
- Open Space Data: A. Open Space Required: N/A
- Parking Space Data:
 - The Number of parking spaces in accordance with the Public School System's requirements = 110
 - Total number of parking spaces existing and provided on site: (Including handicap Parking) = 110
 - Number of Handicapped parking spaces provided: (Including Handicap Van Spaces) = 5

LEGEND	
SYMBOL	DESCRIPTION
--- 366 ---	EXISTING CONTOUR 2' INTERVAL
--- 370 ---	EXISTING CONTOUR 10' INTERVAL
• 367.50	SPOT ELEVATION
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	NEW CONCRETE WALK
---	PROPOSED PAVING
---	EXISTING TREE
---	LIMIT OF DISTURBANCE
TP	TREE PROTECTION FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL

General Notes:

- All construction shall be accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- The contractor shall notify the Bureau of Engineering/Construction Inspection Division at 410-313-1080 at least five working days prior to start of work.
- The contractor shall notify Miss Utility at 1-800-257-7777 at least 48 hours prior to any digging and excavation work.
- Project Background:
Tax Map 30, Grid 14
Part of Parcel No. 258
Zoning: This project is zoned NEWTOWN OPEN SPACE per the 2/2/04 comprehensive zoning plan and to Comp-Lite Zoning Amendments dated 7/28/06.
Election District: FIFTH
Section/Area: 9/5
Site Area: 9.00 Ac.
Open Space to be recorded on Amended Final Development Plan Phase Twenty-Two.
A. Open Space Lot 78: Credited = 0.00 acres
Non-Credited = 1.00 acres
B. Open Space Lot 79: Credited = 3.165 acres
Non-Credited = 0.300 acres
- 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 placement of any asphalt.
- All plan dimensions are to the face of curb or face of building unless otherwise noted. Dimensions are measured perpendicular or radial between items unless otherwise noted.
- Existing topography and features were derived from a field run survey by Fisher, Collins and Carter Inc. dated March 2006.
- Coordinates are based on NAD 83 Maryland Coordinates System as projected by Howard County Geodetic Control Stations.
30CA N 566,053,579 E 1,352,177,580 ELEV. 339.937
30CA N 567,015,220 E 1,353,271,280 ELEV. 360.306
- Public water and sewer is to be utilized for this project. The existing water and sewer systems serving this project are Contract No. 206 W&S.
- All on-site storm drains under this site development plan are private.
- The existing utilities shown hereon were derived from available public records. The Contractor must dig test pits by hand at all utility crossings and connection points to verify the exact location.
- All proposed ramps shall be in accordance with current A.D.A. Standards Accessibility Guidelines. Maximum sidewalk cross slope shall be two percent. Provide a (5'x5') five foot by five foot level landing (max. slope 2%) at the top and bottom of all ramps and building entrances and exits. Handrails shall be provided on all ramps in accordance with section 4.8.5 of the A.D.A. Standards Accessibility Guidelines.
- All driveways and parking to be owned and maintained by the Howard County Public School System.
- Any damage to County and or State owned right-of-way to be corrected at the Contractor's expense.
- Trench bedding for storm drains structures shall be in accordance with Howard County Standard G2.01 Class C Bedding unless otherwise noted.
- Gutter pan of curbs shall be pitched to conform to the adjacent drainage patterns of the adjoining paving for vehicular use.
- There are no known grave sites or cemeteries on this site based on a visual site visit and based on an examination of the Howard County Cemetery Inventory MRP.
- This Project is recorded among the land records in Howard County, Maryland in Plat Book 13, Folio 82 & Final Development Plan Phase 22 recorded in Plat Book 14 Folio 47 and Final Development Plan Phase 22-4 Recorded As Plat # 19839 - 19842.
- Soils Analysis prepared by Peniman and Browne, Inc. dated August 2007.
- All outside lighting shall comply with Zoning Regulations Section 134 which requires lights to be installed to direct/reflect light downwards and inwards on the site and away from all public streets and residential areas.
- Previous DPZ file numbers: SDP 84-98C, WP 99-128, SDP 70-03 and FDP-022.
- This SDP is subject to the First Amendment to the Fifth Edition of the Subdivision and Land Development Regulations dated October 2, 2003 and the Amended Zoning Regulations, per Council Bill 75-2003.
- No clearing, grading or construction is permitted within the limit of wetlands, streams or their required buffers, except as approved on this plan for necessary utility line disturbances in accordance with Section 16.116(c) of the Subdivision and Land Development Regulations.
- No landscape surety is required for this plan since it is a Howard County project.
- This SDP is subject to the Amended Fifth Edition of the Subdivision and Land Development Regulations per Council Bill No. 45-2003 and the Amended Zoning Regulations per Council Bill No. 75-2003. Development or construction on this property must comply with setback and buffer regulations in effect at the time of submission of the site development plan, waiver petition application or building/grading permit applications. The structure and use setbacks from lot lines internal to a development when two or more contiguous parcels are treated as a single parcel for development purposes shall not apply in accordance with section 12B.10 of the Zoning Regulations.
- All sign posts used for traffic control signs installed in the County right-of-way shall be mounted on a 2" galvanized steel, perforated, square tube post (4 gauge) inserted into a 2-1/2" galvanized steel, perforated, square tube sleeve (2 gauge) - 3' long. A galvanized steel pole cap shall be mounted on top of each post.
- Landscape is in accordance with Section 16.124 of the Howard County Code and the Landscape Manual.
- Forest Conservation for this project is exempt due to the limits of disturbance being within the original limits of disturbance based on Site Development Plans SDP 70-03 and SDP 84-98C. Grading permits were approved prior to 12-31-92 in accordance with Section 16.1202(b)(iii) of the Howard County Code, which exempts this project from forest conservation.
- The site is considered as "Redevelopment" and that the stormwater management has been addressed by the reduction of the impervious area for the limit of disturbance by at least 20%.



"Professional Certification. 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, License No. 13204, Expiration Date: November 3, 2008."

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK • 1827 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410-481-2955

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: 2/27/08

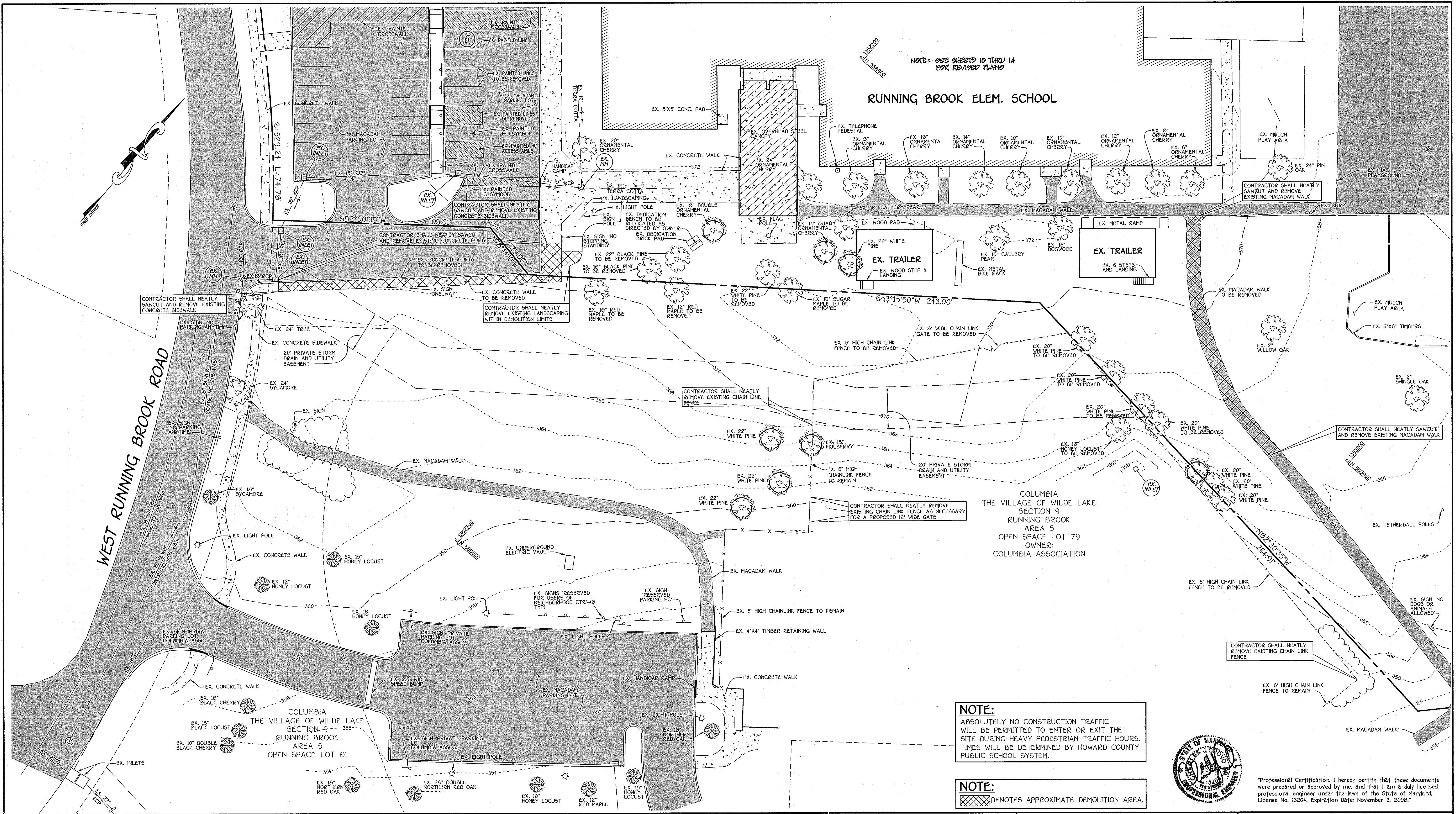
DATE	DESCRIPTION	DATE
9/6/07	REVISED SITE ANALYSIS NOTE 10	
2/19/08	REVISED SHEET INDEX AND SHEET NUMBERS	
REVISION BLOCK		
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Stephen L. Gist</i>	Director, Department of Planning and Zoning	4/29/08
<i>Cathy K. Gist</i>	Chief, Division of Land Development	4/29/08
<i>William J. Gist</i>	Chief, Development Engineering Division	4/29/08

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention: Bruce Gist
410-313-6805

Address Chart					
Parcel Number	Street Address				
PART OF	5215 WEST RUNNING BROOK ROAD				
PARCEL 258	COLUMBIA, MD. 21044				
PROJECT					
RUNNING BROOK ELEMENTARY SCHOOL	SECTION/AREA 9/5 P/O PARCEL 258				
PLAT REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/02	14	NEWTOWN OPEN SPACE	30	FIFTH	6054.01
WATER CODE	E-01	SEWER CODE	5660000		

TITLE SHEET		
RUNNING BROOK ELEMENTARY SCHOOL VILLAGE OF WILDE LAKE SECTION 9 AREA 5 LOT 78 AND OPEN SPACE LOT 79 PARKING LOT ADDITIONS		
TAX MAP No.: 30	GRID No.: 14	P/O PARCEL No.: 258
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND	DATE: FEB. 13, 2008
SCALE: A5 SHOWN	SHEET 1 OF 14 SDP-08-016	

SDP-08-016



NOTE: SEE SHEETS 10 THRU 14 FOR REVISED PLANS

RUNNING BROOK ELEM. SCHOOL

NOTE:
ABSOLUTELY NO CONSTRUCTION TRAFFIC WILL BE PERMITTED TO ENTER OR EXIT THE SITE DURING HEAVY PEDESTRIAN TRAFFIC HOURS. TIMES WILL BE DETERMINED BY HOWARD COUNTY PUBLIC SCHOOL SYSTEM.

NOTE:
DENOTES APPROXIMATE DEMOLITION AREA.



Professional Certification. 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, License No. 13204, Expiration Date: November 3, 2008.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
ELICOTT CITY, MARYLAND 21042
410 461-2899

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 3/27/08

2/10/08	REVISED SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Bruce Gist</i>	4/23/08
Director, Department of Planning and Zoning	DATE
<i>Charles Hanna</i>	4/21/08
Chief, Department of Planning and Zoning	DATE
<i>Walter Dorman</i>	4/21/08
Chief, Development Engineering Division	DATE

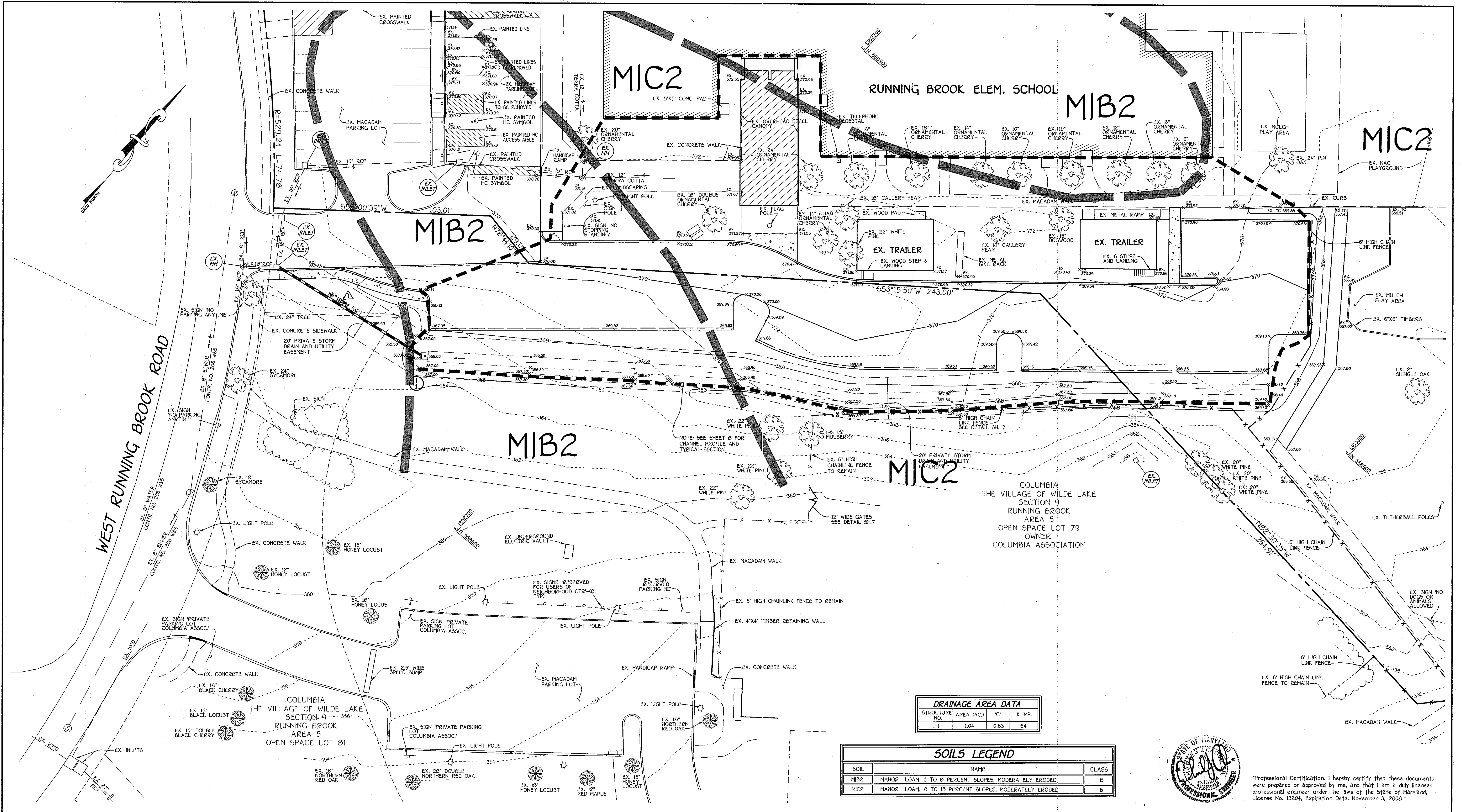
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 109
Ellicott City, Maryland 21042
Attention: Bruce Gist
410-313-6005

Address Chart					
Parcel Number	Street Address				
PART OF	5215 WEST RUNNING BROOK ROAD				
PARCEL 25B	COLUMBIA, MD. 21044				
PROJECT	SECTION/AREA				
RUNNING BROOK ELEMENTARY SCHOOL	9/5				
P/O PARCEL	25B				
PLAT REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/02	14	NEWTOWN OPEN SPACE	30	FIFTH	6054.01
WATER CODE	E-01	SEWER CODE	5660000		

DEMOLITION PLAN
RUNNING BROOK ELEMENTARY SCHOOL
VILLAGE OF WILDE LAKE
SECTION 9 AREA 5
LOT 78 AND OPEN SPACE LOT 79
PARKING LOT ADDITIONS

TAX MAP No.: 30 GRID No.: 14 P/O PARCEL No.: 25B
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: FEB. 13, 2008

SHEET 2 OF 14 SDP-08-016



DRAINAGE AREA DATA

STRUCTURE NO.	AREA (AC.)	C	% IMP.
I-1	1.04	0.63	64

SOILS LEGEND

SOIL	NAME	CLASS
MIB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MIC2	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B



Professional Certification. 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. License No. 13204, Expiration Date: November 3, 2008.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410-481-2955

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 3/27/08

DATE	DESCRIPTION
2/10/08	REVISED SHEET NUMBER
2/27/08	REVISED STORM DRAIN FROM RCP TO HDPE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director: *Doyle Kelly* 4/6/08
 Chief, Division of Planning and Zoning: *Conrad Stone* 4/10/08
 Chief, Development Engineering Division: *John Vaccaro* 4/24/08

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 Maryland Route 108
 Ellicott City, Maryland 21042
 Attention: Bruce Gist
 410-313-6805

Address Chart

Parcel Number	Street Address
PART OF	5215 WEST RUNNING BROOK ROAD
PARCEL 25B	COLUMBIA, MD. 21044

PROJECT	SECTION/AREA	P/O PARCEL
RUNNING BROOK ELEMENTARY SCHOOL	9/5	25B
PLAT REF.	BLOCK NO.	ZONE
13/02	14	NEWTOWN OPEN SPACE
TAX MAP	ELEC. DIST.	CENSUS TR.
30	FIFTH	6054.01
WATER CODE	E-01	SEWER CODE
		5660000

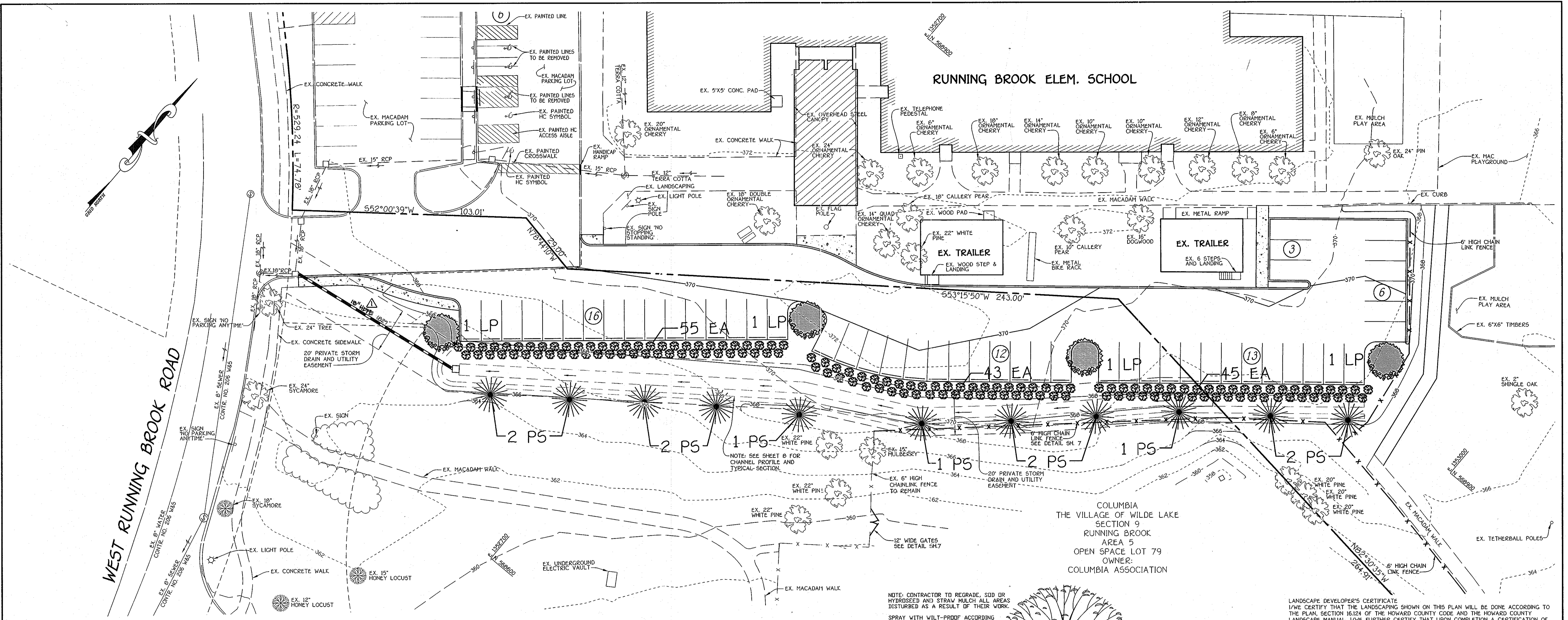
DRAINAGE AREA MAP AND SOILS MAP

RUNNING BROOK ELEMENTARY SCHOOL
 VILLAGE OF WILDE LAKE
 SECTION 9 AREA 5
 LOT 7B AND OPEN SPACE LOT 79
 PARKING LOT ADDITIONS

TAX MAP No.: 30 GRID No.: 14 P/O PARCEL No.: 25B
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: FEB. 13, 2008

SHEET 5 OF 4 SDP-08-016

SDP-08-016



WEST RUNNING BROOK ROAD

RUNNING BROOK ELEM. SCHOOL

COLUMBIA
THE VILLAGE OF WILDE LAKE
SECTION 9
RUNNING BROOK
AREA 5
OPEN SPACE LOT 79
OWNER:
COLUMBIA ASSOCIATION

LANDSCAPE DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Bruce Gist NAME
2/14/08 DATE

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.

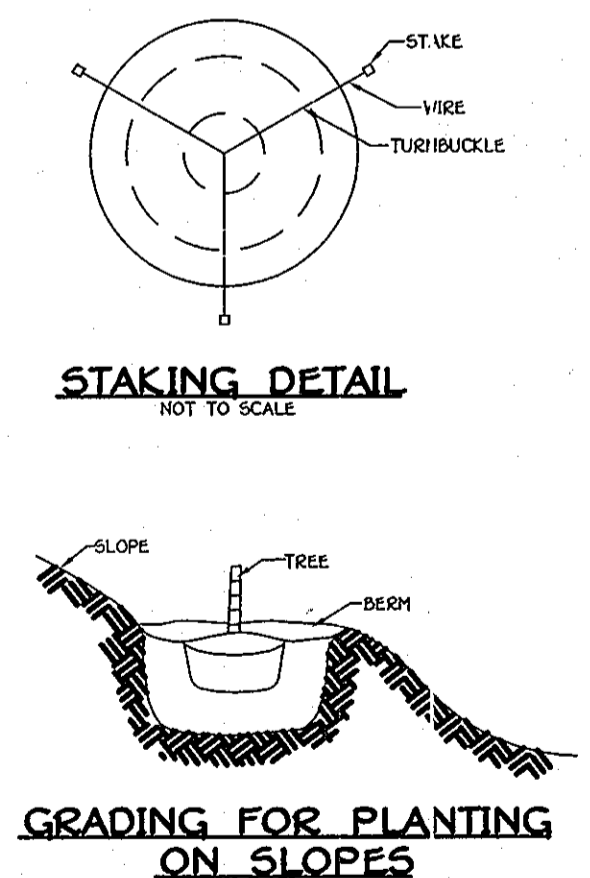
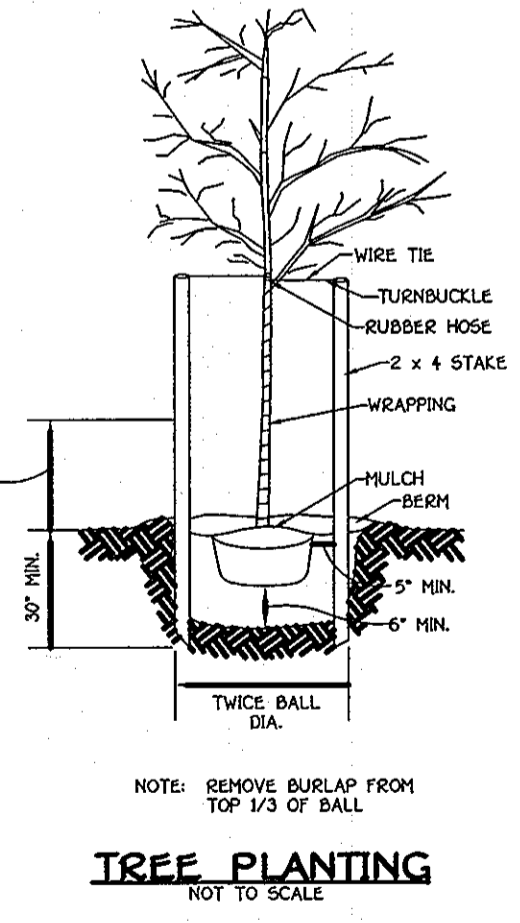
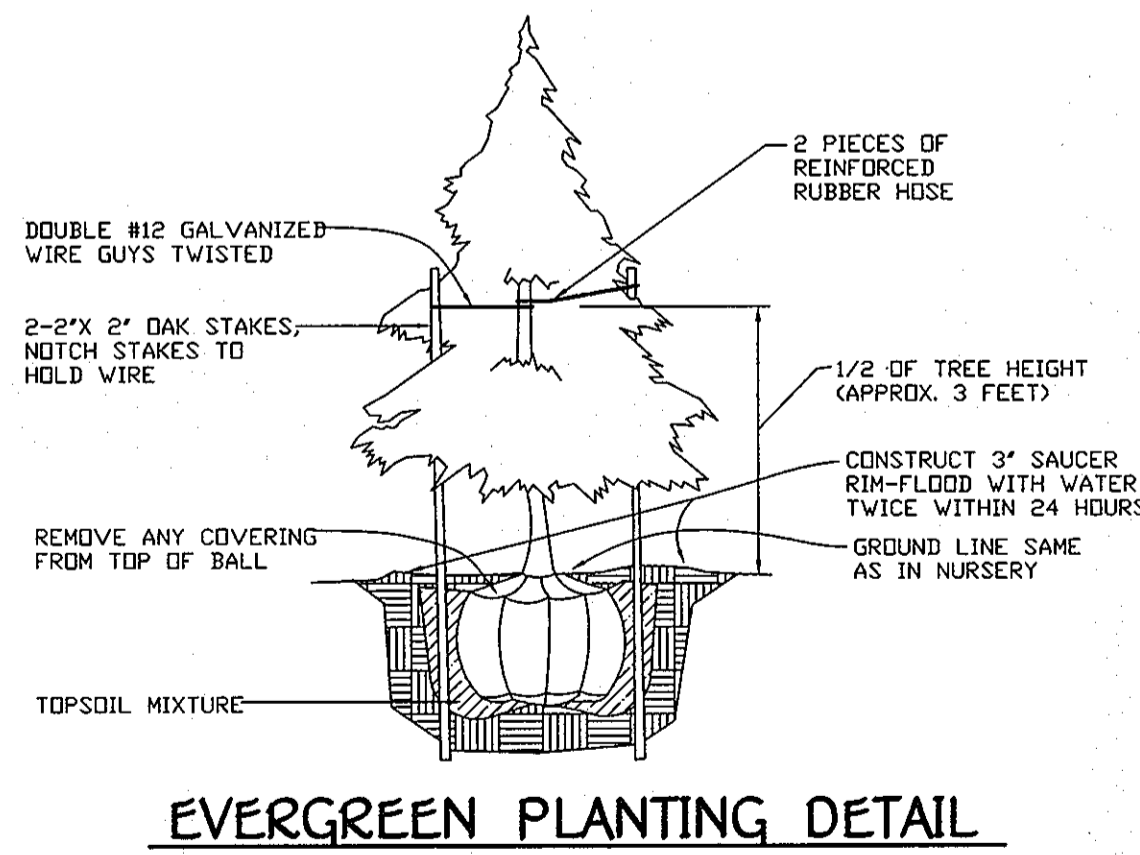
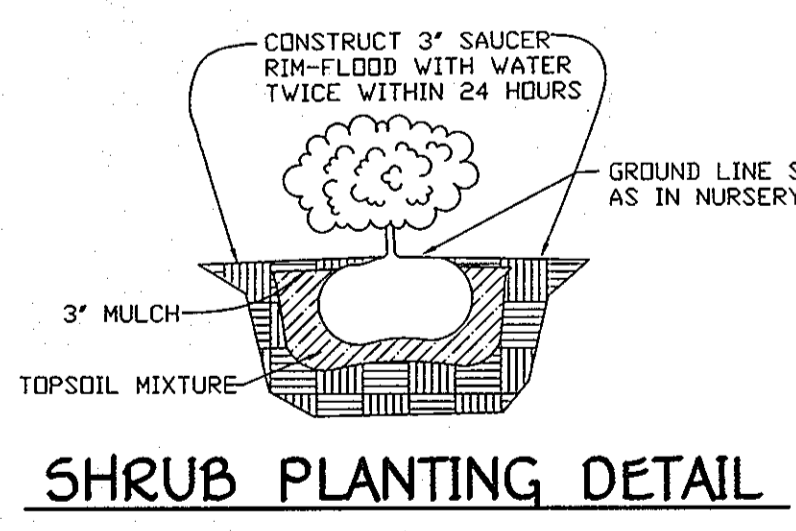
LANDSCAPE LEGEND				
SYMBOL	QTY.	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
EA	143	EUNYMIUS ALATUS "COMPACTA" DWARF WINGED EUNYMIUS	24" - 30" HEIGHT	18" - 24" SPACING
LP	4	PLATANUS OCCIDENTALIS "BLOODGOOD" LONDON PLANETREE	2 1/2 - 3" CAL.	
PS	11	PINUS STROBUS EASTERN WHITE PINE	6' - 8' HEIGHT	

NOTE: TREE AND SHRUB TYPES ARE ONLY A RECOMMENDATION, THESE MAY BE REVISED TO A COUNTY APPROVED EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

NOTE: SEE SHEET 7 FOR PLANTING SPECIFICATIONS



"Professional Certification: 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, License No. 13204, Expiration Date: November 3, 2008."



NOTE: CONTRACTOR TO REGRADE, SDD OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK.
SPRAY WITH WILT-PROOF ACCORDING TO MANUFACTURERS STANDARDS

PRUNE 1/3 LEAF AREA BUT RETAIN NATURAL FORM OF TREE

2 PIECES OF REINFORCED RUBBER HOSE
DOUBLE #12 GALVANIZED WIRE GUYS TWISTED

3-2"x 2" OAK STAKES, NOTCH STAKES TO HOLD WIRE
WRAP TRUNK TO SECOND TIER OF BRANCHES WITH WATERPROOF TREE WRAP, TIE AT 24" INTERVALS (EXCEPT EVERGREENS)
REMOVE ANY COVERING FROM TOP OF ROOT CROWN

3" MULCH
MAINTAIN GROUND LINE WITH TOP OF ROOT CROWN

CONSTRUCT 3" SAUCER RIM-FLOOD WITH WATER TWICE WITHIN 24 HOURS
TOP SOIL MIXTURE
CONVEX BOTTOM 6" MIN. HT.

TREE PLANTING DETAIL

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE: 10000 BELLINGHAM NATIONAL FREE
ELICOTT CITY, MARYLAND 21117
(410) 461-2855

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 3/27/08

DATE	DESCRIPTION	REVISION BLOCK
2/17/13	REVISED SHEET NUMBER	
9/27/08	REVISED STORM DRAIN FROM RCP TO HYPE	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Bruce Gist Director - Department of Planning and Zoning 4/29/08
Carol Hanes Chief, Division of Planning and Zoning 4/29/08
Chris Demaree Chief, Development Engineering Division 4/24/08

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention: Bruce Gist
410-313-6805

Address Chart	
Parcel Number	Street Address
PART OF	5215 WEST RUNNING BROOK ROAD
PARCEL 25B	COLUMBIA, MD. 21044

PROJECT	SECTION/AREA	P/O PARCEL
RUNNING BROOK ELEMENTARY SCHOOL	9/5	25B

PLAT REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/02	14	NEWTOWN OPEN SPACE	30	FIFTH	6054.01

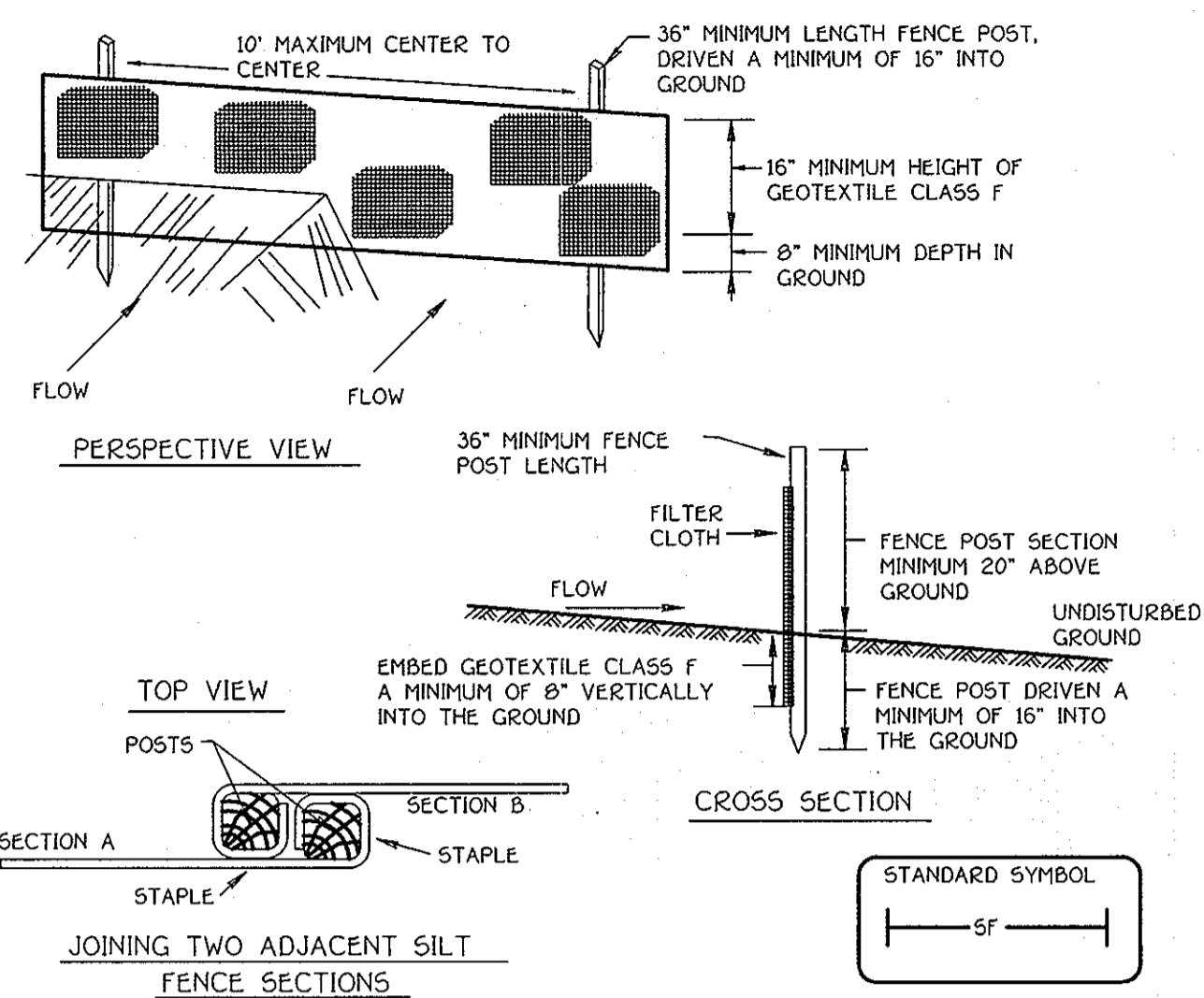
WATER CODE	SEWER CODE
E-01	5660000

LANDSCAPE PLAN
RUNNING BROOK
ELEMENTARY SCHOOL
VILLAGE OF WILDE LAKE
SECTION 9 AREA 5
LOT 78 AND OPEN SPACE LOT 79
PARKING LOT ADDITIONS

TAX MAP No.: 30 GRID No.: 14 P/O PARCEL No.: 25B
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: FEB. 13, 2008

SHEET 6 OF 14 SDP-08-016

SILT FENCE



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut), or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft ² / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

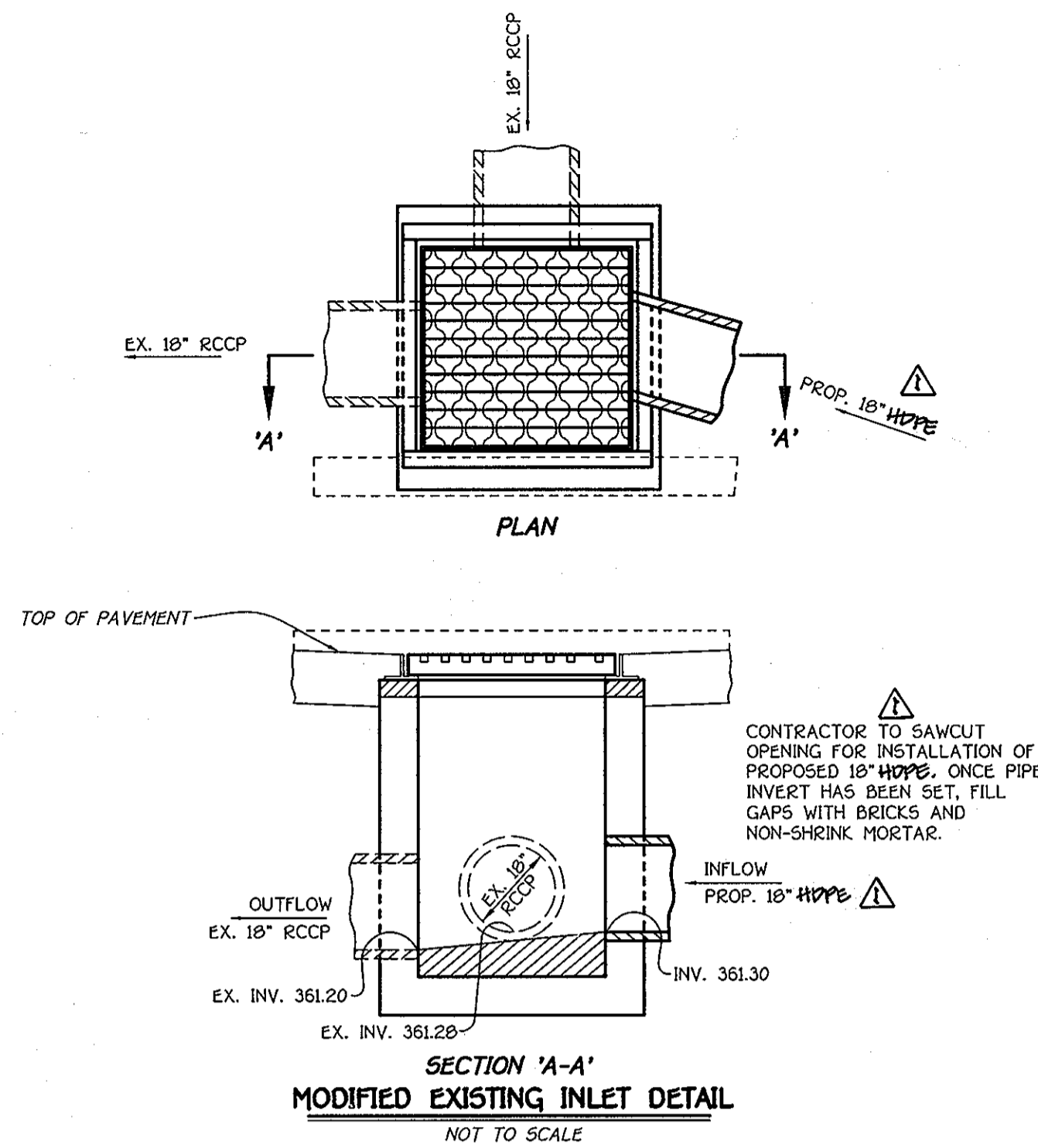
Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

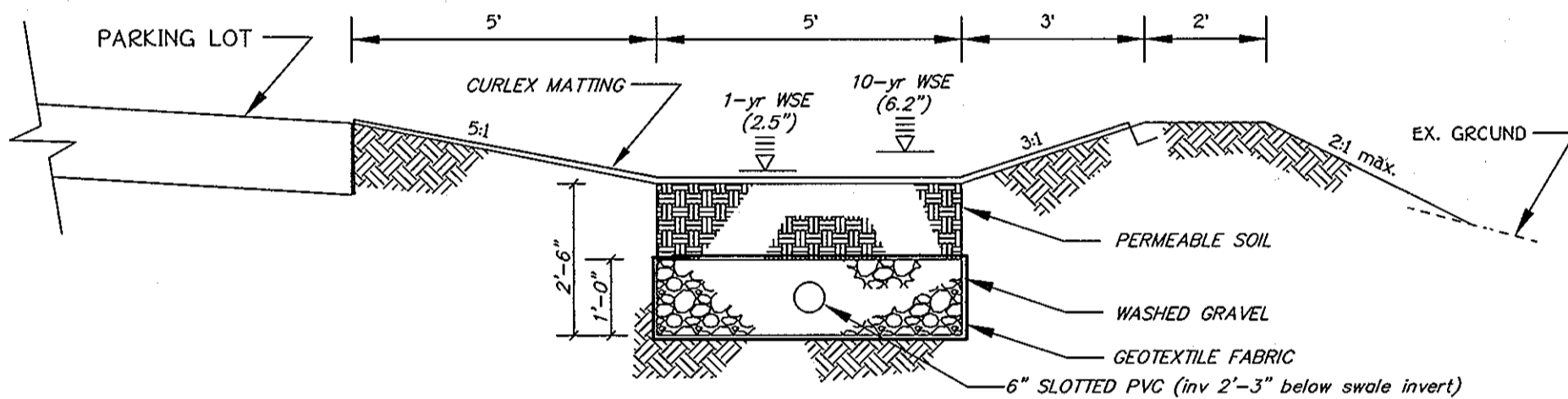
Note: In areas of less than 2X slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS (0-1 AND 0-2)

- The open channel system shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.
- The open channel shall be mowed a minimum of as needed during the growing season to maintain a maximum grass height of less than 6 inches.
- Debris and litter shall be removed during regular mowing operations and as needed.
- Visible signs of erosion in the open channel system shall be repaired as soon as it is noticed.
- Remove silt in the open channel system when it exceeds 25% of the original WQV.



CONTRACTOR TO SAWCUT OPENING FOR INSTALLATION OF PROPOSED 18" HPPPE. ONCE PIPE INVERT HAS BEEN SET, FILL GAPS WITH BRICKS AND NON-SHRINK MORTAR.



GRASS CHANNEL - TYPICAL SECTION
NO SCALE

GRASS SWALE SPECIFICATIONS

- All construction shall meet dryswale and bioretention soil standards as set for in the Maryland Department of the Environment's 2000 SWM Design Manual and as outlined below.
- The permeable soil and stone trench below the grassed swale invert shall be installed after ALL upstream areas have been stabilized (i.e., paved or have established vegetation).
- Mulch shall be double-shredded hardwood aged 6 to 12 months. No woods chips or pine mulch.
- The "washed gravel" shall be washed pea gravel (ASTM D448) or uniformly sized stone meeting AASHTO M-43 (0.375" to 0.75") surrounded by geotextile Mirafi 180N or approved equal (Alternative geotextiles are outlined in MDE's 2000 SWM Manual in Appendix B, Class "C" criteria). Stone shall be carefully placed to prevent damage to geotextile. The geotextile shall be installed per the manufacturer's specifications with a 6" overlap. Stone aggregate must be free of fines and clean.
- The permeable soil shall consist of well mixed 35% sand, and 65% topsoil. The soil shall be free of stones, stumps, roots, or other similar material greater than 2". No other material shall be mixed or dumped within the permeable soil that may hinder plant growth. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05. The permeable soil shall loosely compacted in 8" lifts and be flooded after placement. Any settlement shall be refilled to the design elevation.
- The 6" perforated PVC pipe shall be placed at the same grade as the grassed swale (0.6%). Perforated pipe shall be slotted. The PVC shall be Schedule 40 or stronger. Cap end except at connection to storm drain inlet (i.e., cap upstream end). NOTE: Use 1 LF of non-perforated PVC pipe to connect to the storm drain inlet.
- Sand shall meet AASHTO M-6 or ASTM C-33, Size: 0.02" to 0.04". Sand must be clean; free of fines, roots, etc.
- The curlex matting shall be stapled and installed per the manufacturer's specifications.

LOG OF BORING No. B1

Depth (ft)	Description	Soil Type	Moisture (%)	Specific Gravity	Unit Weight (pcf)	Penetration (blows/ft)	Notes
0-1	Topsoil - 4 inches	ML					
1-2	Brown damp to moist silty clay, trace rock frags	EM					
2-3	Brown moist silty clay, trace rock frags	SM					
3-4	Brown moist silty clay, trace rock frags	SM					
4-5	Brown moist silty clay, trace rock frags	SM					
5-6	Brown moist silty clay, trace rock frags	SM					
6-7	Brown moist silty clay, trace rock frags	SM					
7-8	Brown moist silty clay, trace rock frags	SM					
8-9	Brown moist silty clay, trace rock frags	SM					
9-10	Brown moist silty clay, trace rock frags	SM					
10-11	Brown moist silty clay, trace rock frags	SM					
11-12	Brown moist silty clay, trace rock frags	SM					
12-13	Brown moist silty clay, trace rock frags	SM					
13-14	Brown moist silty clay, trace rock frags	SM					
14-15	Brown moist silty clay, trace rock frags	SM					
15-16	Brown moist silty clay, trace rock frags	SM					
16-17	Brown moist silty clay, trace rock frags	SM					
17-18	Brown moist silty clay, trace rock frags	SM					
18-19	Brown moist silty clay, trace rock frags	SM					
19-20	Brown moist silty clay, trace rock frags	SM					
20-21	Brown moist silty clay, trace rock frags	SM					
21-22	Brown moist silty clay, trace rock frags	SM					
22-23	Brown moist silty clay, trace rock frags	SM					
23-24	Brown moist silty clay, trace rock frags	SM					
24-25	Brown moist silty clay, trace rock frags	SM					
25-26	Brown moist silty clay, trace rock frags	SM					
26-27	Brown moist silty clay, trace rock frags	SM					
27-28	Brown moist silty clay, trace rock frags	SM					
28-29	Brown moist silty clay, trace rock frags	SM					
29-30	Brown moist silty clay, trace rock frags	SM					
30-31	Brown moist silty clay, trace rock frags	SM					
31-32	Brown moist silty clay, trace rock frags	SM					
32-33	Brown moist silty clay, trace rock frags	SM					
33-34	Brown moist silty clay, trace rock frags	SM					
34-35	Brown moist silty clay, trace rock frags	SM					
35-36	Brown moist silty clay, trace rock frags	SM					
36-37	Brown moist silty clay, trace rock frags	SM					
37-38	Brown moist silty clay, trace rock frags	SM					
38-39	Brown moist silty clay, trace rock frags	SM					
39-40	Brown moist silty clay, trace rock frags	SM					
40-41	Brown moist silty clay, trace rock frags	SM					
41-42	Brown moist silty clay, trace rock frags	SM					
42-43	Brown moist silty clay, trace rock frags	SM					
43-44	Brown moist silty clay, trace rock frags	SM					
44-45	Brown moist silty clay, trace rock frags	SM					
45-46	Brown moist silty clay, trace rock frags	SM					
46-47	Brown moist silty clay, trace rock frags	SM					
47-48	Brown moist silty clay, trace rock frags	SM					
48-49	Brown moist silty clay, trace rock frags	SM					
49-50	Brown moist silty clay, trace rock frags	SM					

LOG OF BORING No. B2

Depth (ft)	Description	Soil Type	Moisture (%)	Specific Gravity	Unit Weight (pcf)	Penetration (blows/ft)	Notes
0-1	Topsoil - 2 inches	ML					
1-2	Brown damp to moist silty clay, trace rock frags, trace silt	ML					
2-3	Brown and grey moist silty clay, trace rock frags	SM					
3-4	Brown and grey moist silty clay, trace rock frags	SM					
4-5	Brown and grey moist silty clay, trace rock frags	SM					
5-6	Brown and grey moist silty clay, trace rock frags	SM					
6-7	Brown and grey moist silty clay, trace rock frags	SM					
7-8	Brown and grey moist silty clay, trace rock frags	SM					
8-9	Brown and grey moist silty clay, trace rock frags	SM					
9-10	Brown and grey moist silty clay, trace rock frags	SM					
10-11	Brown and grey moist silty clay, trace rock frags	SM					
11-12	Brown and grey moist silty clay, trace rock frags	SM					
12-13	Brown and grey moist silty clay, trace rock frags	SM					
13-14	Brown and grey moist silty clay, trace rock frags	SM					
14-15	Brown and grey moist silty clay, trace rock frags	SM					
15-16	Brown and grey moist silty clay, trace rock frags	SM					
16-17	Brown and grey moist silty clay, trace rock frags	SM					
17-18	Brown and grey moist silty clay, trace rock frags	SM					
18-19	Brown and grey moist silty clay, trace rock frags	SM					
19-20	Brown and grey moist silty clay, trace rock frags	SM					
20-21	Brown and grey moist silty clay, trace rock frags	SM					
21-22	Brown and grey moist silty clay, trace rock frags	SM					
22-23	Brown and grey moist silty clay, trace rock frags	SM					
23-24	Brown and grey moist silty clay, trace rock frags	SM					
24-25	Brown and grey moist silty clay, trace rock frags	SM					
25-26	Brown and grey moist silty clay, trace rock frags	SM					
26-27	Brown and grey moist silty clay, trace rock frags	SM					
27-28	Brown and grey moist silty clay, trace rock frags	SM					
28-29	Brown and grey moist silty clay, trace rock frags	SM					
29-30	Brown and grey moist silty clay, trace rock frags	SM					
30-31	Brown and grey moist silty clay, trace rock frags	SM					
31-32	Brown and grey moist silty clay, trace rock frags	SM					
32-33	Brown and grey moist silty clay, trace rock frags	SM					
33-34	Brown and grey moist silty clay, trace rock frags	SM					
34-35	Brown and grey moist silty clay, trace rock frags	SM					
35-36	Brown and grey moist silty clay, trace rock frags	SM					
36-37	Brown and grey moist silty clay, trace rock frags	SM					
37-38	Brown and grey moist silty clay, trace rock frags	SM					
38-39	Brown and grey moist silty clay, trace rock frags	SM					
39-40	Brown and grey moist silty clay, trace rock frags	SM					
40-41	Brown and grey moist silty clay, trace rock frags	SM					
41-42	Brown and grey moist silty clay, trace rock frags	SM					
42-43	Brown and grey moist silty clay, trace rock frags	SM					
43-44	Brown and grey moist silty clay, trace rock frags	SM					
44-45	Brown and grey moist silty clay, trace rock frags	SM					
45-46	Brown and grey moist silty clay, trace rock frags	SM					
46-47	Brown and grey moist silty clay, trace rock frags	SM					
47-48	Brown and grey moist silty clay, trace rock frags	SM					
48-49	Brown and grey moist silty clay, trace rock frags	SM					
49-50	Brown and grey moist silty clay, trace rock frags	SM					

LOG OF BORING No. B3

Depth (ft)	Description	Soil Type	Moisture (%)	Specific Gravity	Unit Weight (pcf)	Penetration (blows/ft)	Notes
0-1	Topsoil - 3 inches	ML					
1-2	Brown damp silty clay, trace rock frags, trace silt	ML					
2-3	Brown and grey moist silty clay, trace rock frags	SM					
3-4	Brown and grey moist silty clay, trace rock frags	SM					
4-5	Brown and grey moist silty clay, trace rock frags	SM					
5-6	Brown and grey moist silty clay, trace rock frags	SM					
6-7	Brown and grey moist silty clay, trace rock frags	SM					
7-8	Brown and grey moist silty clay, trace rock frags	SM					
8-9	Brown and grey moist silty clay, trace rock frags	SM					
9-10	Brown and grey moist silty clay, trace rock frags	SM					
10-11	Brown and grey moist silty clay, trace rock frags	SM					
11-12	Brown and grey moist silty clay, trace rock frags	SM					
12-13	Brown and grey moist silty clay, trace rock frags	SM					
13-14	Brown and grey moist silty clay, trace rock frags	SM					
14-15	Brown and grey moist silty clay, trace rock frags	SM					
15-16	Brown and grey moist silty clay, trace rock frags	SM					
16-17	Brown and grey moist silty clay, trace rock frags	SM					
17-18	Brown and grey moist silty clay, trace rock frags	SM					
18-19	Brown and grey moist silty clay, trace rock frags	SM					
19-20	Brown and grey moist silty clay, trace rock frags	SM					
20-21	Brown and grey moist silty clay, trace rock frags	SM					
21-22	Brown and grey moist silty clay, trace rock frags	SM					
22-23	Brown and grey moist silty clay, trace rock frags	SM					
23-24	Brown and grey moist silty clay, trace rock frags	SM					
24-25	Brown and grey moist silty clay, trace rock frags	SM					
25-26	Brown and grey moist silty clay, trace rock frags	SM					
26-27	Brown and grey moist silty clay, trace rock frags	SM					
27-28	Brown and grey moist silty clay, trace rock frags	SM					
28-29	Brown and grey moist silty clay, trace rock frags	SM					
29-30	Brown and grey moist silty clay, trace rock frags	SM					
30-31	Brown and grey moist silty clay, trace rock frags	SM					
31-32	Brown and grey moist silty clay, trace rock frags	SM					
32-33	Brown and grey moist silty clay, trace rock frags	SM					
33-34	Brown and grey moist silty clay, trace rock frags	SM					
34-35	Brown and grey moist silty clay, trace rock frags	SM					
35-36	Brown and grey moist silty clay, trace rock frags	SM					
36-37	Brown and grey moist silty clay, trace rock frags	SM					
37-38	Brown and grey moist silty clay, trace rock frags	SM					
38-39	Brown and grey moist silty clay, trace rock frags	SM					
39-40	Brown and grey moist silty clay, trace rock frags	SM					
40-41	Brown and grey moist silty clay, trace rock frags	SM					
41-42	Brown and grey moist silty clay, trace rock frags	SM					
42-43	Brown and grey moist silty clay, trace rock frags	SM					
43-44	Brown and grey moist silty clay, trace rock frags	SM					
44-45	Brown and grey moist silty clay, trace rock frags	SM					

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Vegetation - Annual grass or grain used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required.

A. Seed Mixtures - Temporary Seeding

i. Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardness Zone (from Figure 5) and enter them in the Temporary Seeding Summary below, along with application rates, seeding dates and seeding depths. If this summary is not put on the plans and completed, then Table 25 must be put on the plans.

Seed Mixture (Hardness Zone -- B --)	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	Fertilizer Rate (lb/ac)	Lime Rate (lb/1000sq ft)
1	BARLEY	122	3/1 - 5/15	1" - 2"	600 lb/ac (5/80000)	2 tons/ac
	OATS	96	8/15 - 10/15	1" - 2"		
	RYE	140		1" - 2"		

SEEDING GRASS AND LEGUMES TO ESTABLISH GRASS COVER FOR A MINIMUM OF ONE YEAR ON DISTURBED AREAS GENERALLY REQUIRING LOW MAINTENANCE.

A. Seed Mixtures - Permanent Seeding

i. Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardness Zone (from Figure 5) and enter them in the Permanent Seeding Summary below, along with application rates and seeding dates. Seeding depths can be estimated using Table 26. If this summary is not put on the plans and completed, then Table 25 must be put on the plans. Additional seeding specifications for exceptional sites such as shorelines, streambanks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USGS-SCS Technical Field Office Guide, Section 345 - Critical Area Planning. For special lawn maintenance areas, see Sections IV Soil and V Turfgrass.

Seed Mixture (Hardness Zone -- B --)	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	Fertilizer Rate (lb/ac)	Lime Rate (lb/1000sq ft)
3	TALL FESCUE (0551)	125	3/1 - 5/15	1" - 2"	90 lb/ac (4/80000)	2 tons/ac
4	PERENNIAL RYE GRASS (002)	15	8/15 - 10/15	1" - 2"	175 lb/ac (1/80000)	175 lb/ac (1/80000)
10	KENTUCKY BLUEGRASS (051)	100	3/1 - 5/15	1" - 2"	100 lb/ac (1/80000)	100 lb/ac (1/80000)
	HARD FESCUE (003)	30	8/15 - 10/15	1" - 2"		

NOTE: THESE SEEDING SPECIFICATIONS ARE THE MINIMUM REQUIRED FOR SEDIMENT CONTROL. REFER TO PROJECT SPECIFICATIONS FOR SEEDING REQUIREMENTS FOR OTHER AREAS OF THE SITE.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1059).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, PERMITS SHALL BE OBTAINED PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS
 - TOTAL AREA OF SITE: 9.00 ACRES
 - AREA TO BE ROOFED OR PAVED: 0.93 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 0.27 ACRES
 - TOTAL CUT: 611 CU.YD.
 - TOTAL FILL: 611 CU.YD.
 - OFFSITE WASTE/BORROW AREA LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMITS, EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS OBTAINED.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITH ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION FOR PARKING LOT ADDITIONS

- OBTAIN GRADING PERMIT. (1 DAY)
- NOTIFY "THIS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. SHALL BE REQUESTED UPON COMPLETION OF CONSTRUCTION/INSPECTION DIVISION AT 410-313-1870 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- CLEAR FOR AND INSTALL/CONSTRUCT ALL PERIMETER SEDIMENT CONTROL. (1 WEEK)
- UPON PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR BEGIN GRADING THE SITE AND IMMEDIATELY STABILIZE ALL SLOPES UPON COMPLETION OF GRADING WITH TEMPORARY SEEDING. (6 WEEKS)
- INSTALL STORM DRAIN SYSTEM AND EARTH SHALE. (1 WEEK)
- INSTALL CURB AND PAVING. (2 WEEKS)
- FINE GRADE SITE. (1 WEEK)
- INSTALL SIDEWALKS AND MACADAM WALKWAY. (1 WEEK)
- FOLLOWING SUCCESSFUL STABILIZATION (i.e. FULLY-ESTABLISHED VEGETATION OR PAVING) OF ALL DISTURBED AREAS, OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE ALL REMAINING SEDIMENT & EROSION CONTROL DEVICES AND THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (2 WEEKS)
- NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR A FINAL INSPECTION OF THE COMPLETED SITE.

ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *Charles Collins* Date: 2/13/08

DEVELOPER'S CERTIFICATE

"I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *John H. Roberts* Date: 2/14/08

STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose: To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, and/or are unworkable soil gradations.

Conditions Where Practice Applies: This practice is limited to areas having 21 or flatter slopes where:

- The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
- The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- The original soil to be vegetated contains material toxic to plant growth.
- The soil is so acidic that treatment with limestone is not feasible.

For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged is given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silty loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, silt, roots, trash, or other materials larger than 1/2" in diameter.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (2000-4000 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated area and worked into the soil in conjunction with tillage operations as described in the following paragraphs.

For sites having disturbed areas under 5 acres:

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

For sites having disturbed areas over 5 acres:

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic materials.

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained about 4" - 6" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that seeding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Alternative for Permanent Seeding - Instead of applying the full amount of lime and commercial fertilizer, composted sludge may be applied as specified below.

- Composted sludge material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- Composted sludge shall be amended with a potassium fertilizer at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guidelines Specifications, Soil Preparation and Seeding, MD-VA, Pub. 1 Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1977.

VI. Alternative for Permanent Seeding - Instead of applying the full amount of lime and commercial fertilizer, composted sludge may be applied as specified below.

Composted sludge material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.

Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

Composted sludge shall be amended with a potassium fertilizer at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guidelines Specifications, Soil Preparation and Seeding, MD-VA, Pub. 1 Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1977.

ANCHOR POST SHOULD BE MINIMUM 2" STEEL 1/2" CHANNEL OR 2" X 2" TIMBER 6' IN LENGTH

USE 2" X 4" LUMBER FOR CROSS BACKING

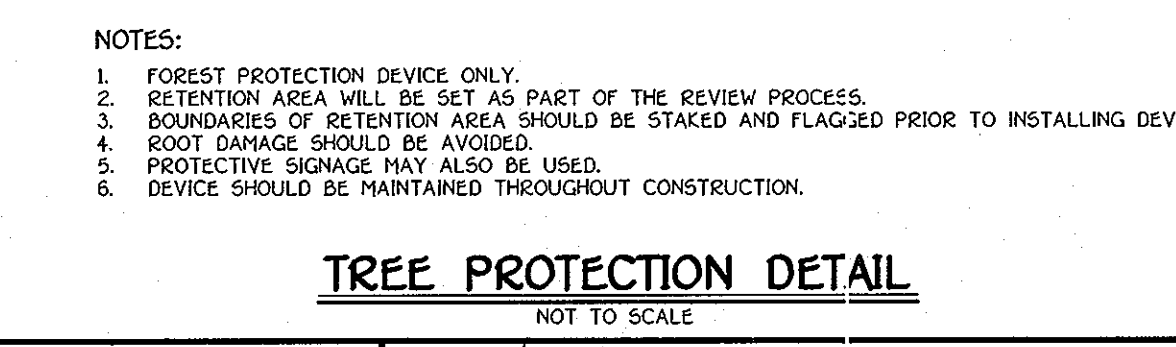
ANCHOR POST MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF POST

USE 3" WIRE TO SECURE FENCE BOTTOM

NOTES:

- FOREST PROTECTION DEVICE ONLY.
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE MAY ALSO BE USED.
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

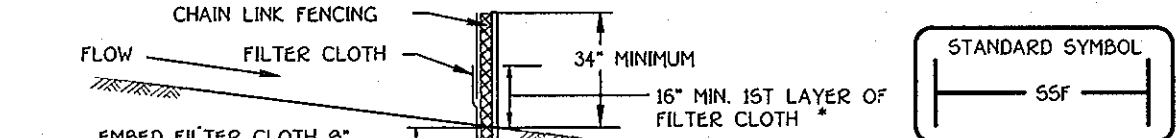
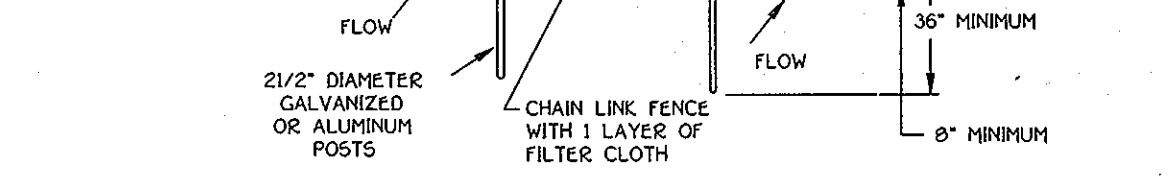
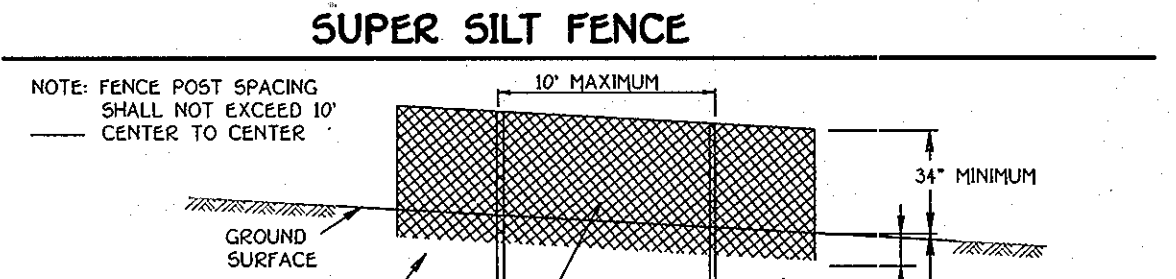
TREE PROTECTION DETAIL



NOT TO SCALE

DATE	DESCRIPTION
2/10/08	REVISED SHEET NUMBER
	ADDED THIS SHEET FOR DETAILS AND BUILDING ELEVATIONS.
	DATE: 4/23/08
	DATE: 4/28/08
	DATE: 4/28/08

SUPER SILT FENCE



Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnson grass, etc.
- Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (2000-4000 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated area and worked into the soil in conjunction with tillage operations as described in the following paragraphs.

For sites having disturbed areas under 5 acres:

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

For sites having disturbed areas over 5 acres:

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic materials.

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained about 4" - 6" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that seeding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Alternative for Permanent Seeding - Instead of applying the full amount of lime and commercial fertilizer, composted sludge may be applied as specified below.

Composted sludge material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.

Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

Composted sludge shall be amended with a potassium fertilizer at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guidelines Specifications, Soil Preparation and Seeding, MD-VA, Pub. 1 Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1977.

ANCHOR POST SHOULD BE MINIMUM 2" STEEL 1/2" CHANNEL OR 2" X 2" TIMBER 6' IN LENGTH

USE 2" X 4" LUMBER FOR CROSS BACKING

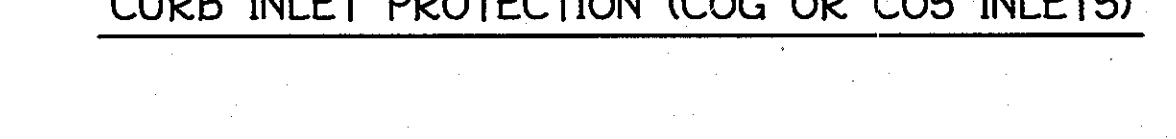
ANCHOR POST MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF POST

USE 3" WIRE TO SECURE FENCE BOTTOM

NOTES:

- FOREST PROTECTION DEVICE ONLY.
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE MAY ALSO BE USED.
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

CURB INLET PROTECTION (COG OR COS INLETS)



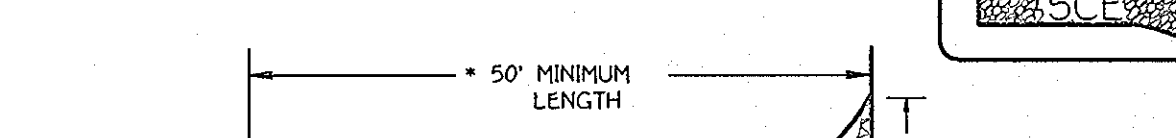
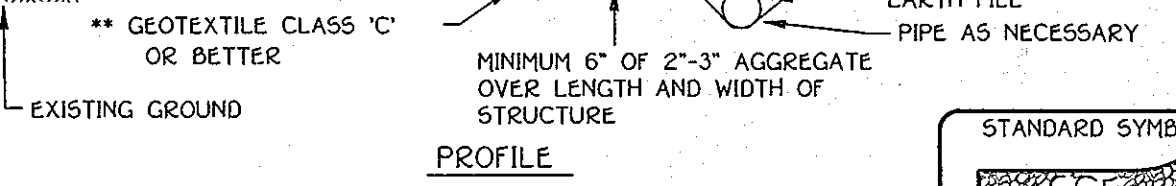
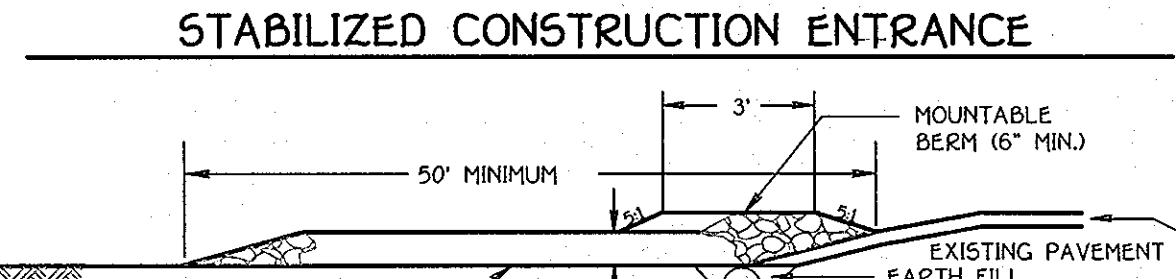
Construction Specifications

- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" wire (measuring throat length plus 2") as shown on the standard drawing.
- Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" wire.
- Securely nail the 2" x 4" wire to a 9" long vertical spacer to be located between the wire and the inlet face (max. 4" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the wire at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

STANDARD SYMBOL

STANDARD SYMBOL

STABILIZED CONSTRUCTION ENTRANCE



Construction Specifications

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe shall be sized according to the drainage. When the 5C is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles exiting the site must travel over the entire length of the stabilized construction entrance.

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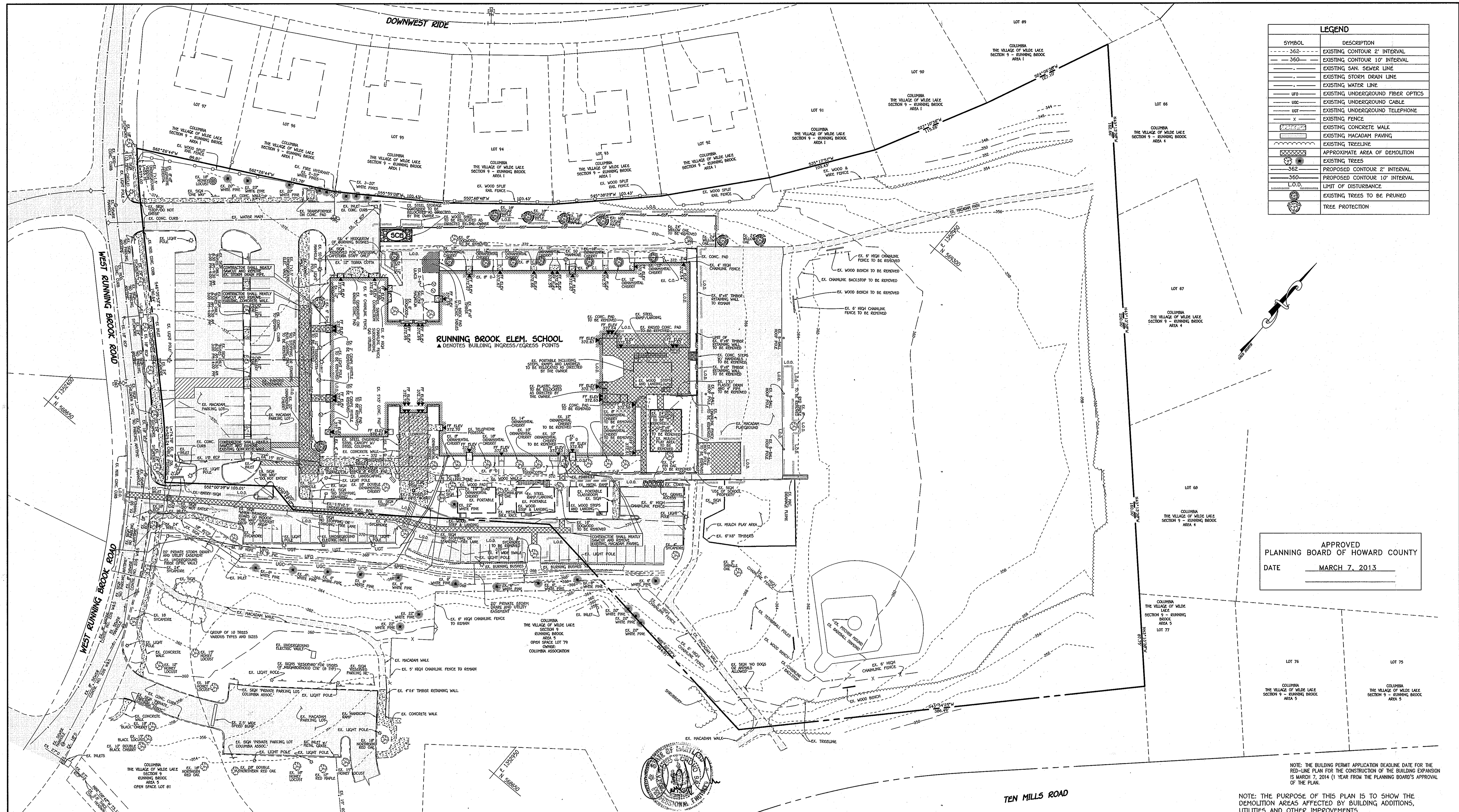
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SEDIMENT CONTROL NOTES AND DETAILS

RUNNING BROOK ELEMENTARY SCHOOL VILLAGE OF WILDE LAKE SECTION 9 AREA 5 LOT 78 AND OPEN SPACE LOT 79 PARKING LOT ADDITIONS

Parcel Number	Street Address
PARCEL 250	5215 WEST RUNNING BROOK ROAD COLUMBIA, MD. 21044

PROJECT	SECTION/AREA
---------	--------------



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND FIBER OPTICS
---	EXISTING UNDERGROUND CABLE
---	EXISTING UNDERGROUND TELEPHONE
X	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	EXISTING TREES
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	L.O.D.
---	EXISTING TREES TO BE PRUNED
---	TREE PROTECTION

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE MARCH 7, 2013

NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING ADDITIONS, UTILITIES AND OTHER IMPROVEMENTS IS MARCH 7, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN).

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE DEMOLITION AREAS AFFECTED BY BUILDING ADDITIONS, UTILITIES AND OTHER IMPROVEMENTS.

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *Charles J. Corvo, Sr.* 3/11/13
 Date

"Professional Certification. 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. License No. 135204, Expiration Date: November 3, 2014."
 Signature of Engineer: *Charles J. Corvo, Sr., P.E.* 3/11/13
 Date

DEVELOPER'S CERTIFICATE
 "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *John L. Robertson* 3/11/13
 Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature of District: *John L. Robertson* 3/11/13
 Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director: *David A. Powell* 4/2/13
 Chief, Division of Planning and Zoning: *Kevin S. ...* 3/25/13
 Chief, Development Engineering Division: *...* 3/22/13

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 Maryland Route 102
 Ellicott City, Maryland 21042
 Attention: Bruce Gist
 410-313-6805

SCHAMU MACHOWSKI GRECO
 ARCHITECTS, INC.
 1016 MORTON STREET,
 BALTIMORE, MD 21201
 TEL 410.685.3582
 FAX 410.625.4790

Address Chart	
Lot Number	Street Address
250	5215 WEST RUNNING BROOK
	COLUMBIA, MD. 21044

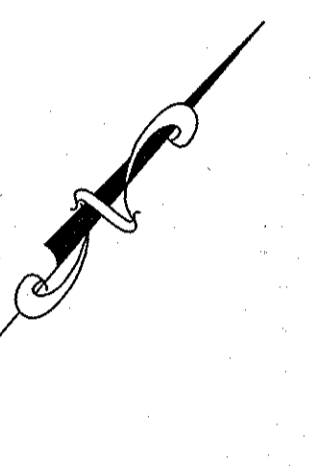
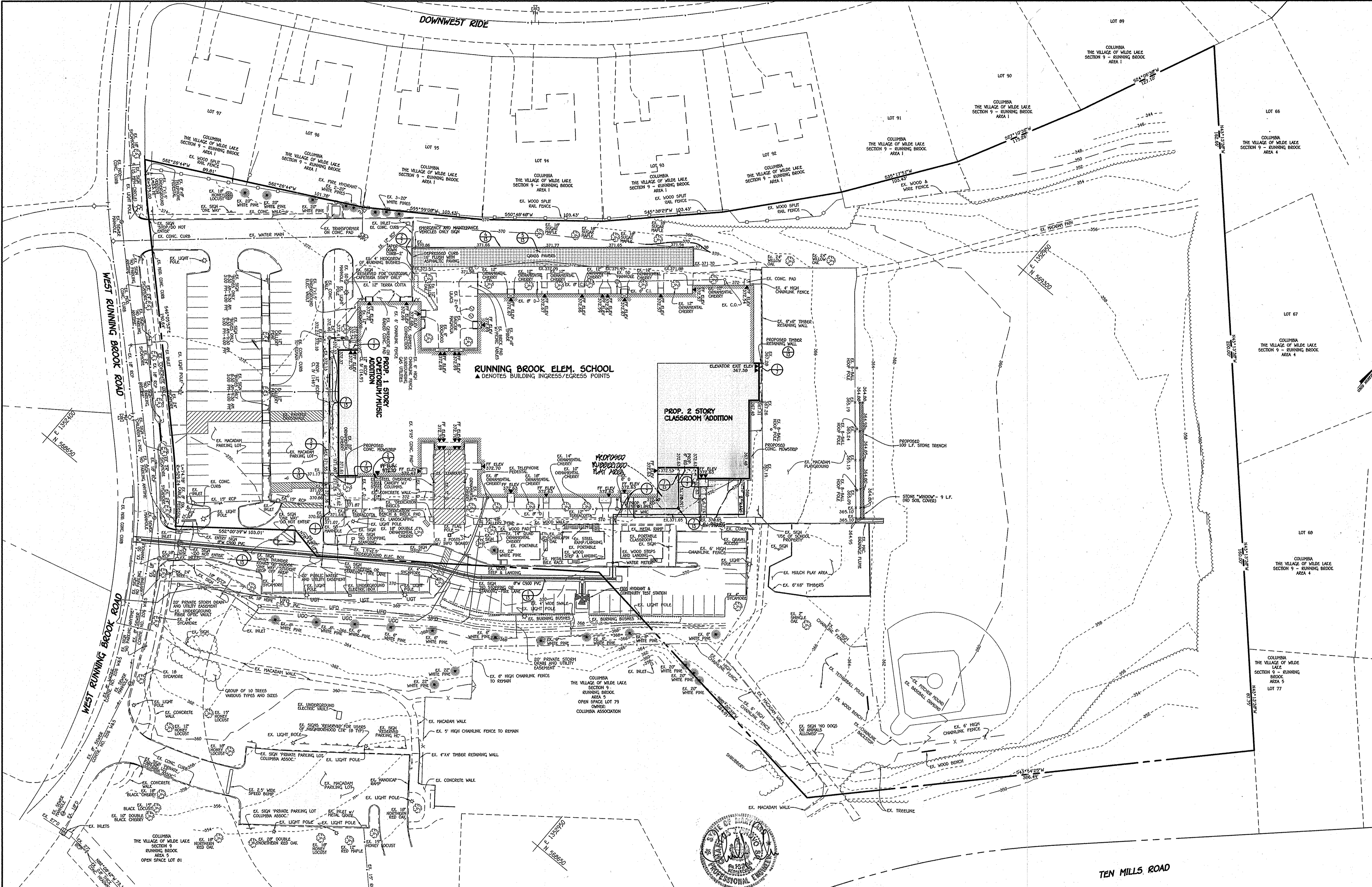
PROJECT	SECTION/AREA	PARCELS
RUNNING BROOK ELEMENTARY SCHOOL	9/5	250

DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/82	14	NT O.S.	30	FIFTH	6054.01

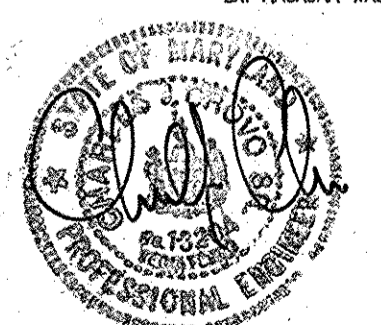
WATER CODE	SEWER CODE	5660000
E-01		

DEMOLITION PLAN, SEDIMENT AND EROSION CONTROL PLAN
 "REVISED SITE DEVELOPMENT PLAN"
RUNNING BROOK ELEMENTARY SCHOOL
 2 STORY CLASSROOM ADDITION AND 1 STORY CAFETERIA/MUSIC ADDITION
 PARCEL No.: 250
 TAX MAP No.: 30 GRID No.: 14
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: FEBRUARY 11, 2013

LEGEND	
SYMBOL	DESCRIPTION
- - - - -	EXISTING CONTOUR 2' INTERVAL
- - - - -	EXISTING CONTOUR 10' INTERVAL
- - - - -	EXISTING SAN SEWER LINE
- - - - -	EXISTING STORM DRAIN LINE
- - - - -	EXISTING WATER LINE
- - - - -	EXISTING UNDERGROUND FIBER OPTICS
- - - - -	EXISTING UNDERGROUND CABLE
- - - - -	EXISTING UNDERGROUND TELEPHONE
- - - - -	EXISTING FENCE
X	PROPOSED FENCE
- - - - -	PROPOSED CONTOUR 2' INTERVAL
- - - - -	PROPOSED CONTOUR 10' INTERVAL
+ 370.78	PROPOSED SPOT ELEVATION
- - - - -	EXISTING TREELINE
(Tree Symbol)	EXISTING TREES
(Walkway Symbol)	PROPOSED CONCRETE WALK
(Paving Symbol)	PROPOSED MACADAM PAVING
(Water Symbol)	PROPOSED PUBLIC WATER
(Drain Symbol)	PROPOSED STORMDRAIN
(Grass Symbol)	PROPOSED GRASS PAVERS



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE MARCH 7, 2013



NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS MARCH 7, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN).

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE BUILDING ADDITIONS, UTILITIES AND OTHER IMPROVEMENTS.

"Professional Certification. 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, License No. 13204, expiration date: November 3, 2014."

Charles J. Casvo
CHARLES J. CASVO, SR., P.E.
3/11/13 DATE

DATE	DESCRIPTION	REVISION BLOCK
6/10/11	REMOVED TO REDLINE SUBMITTED PLAYGROUND	
9/3/13	REMOVED 2 STORY CLASSROOM ADDITION AND ADDED SIDEWALK WEST OF MAIN ENTRANCE	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

David L. Casvo 3/25/13 DATE
Director - Department of Planning and Zoning

Jeff Stenhouse 3/21/13 DATE
Chief, Division of Land Development

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention: Bruce Gist
410-313-6805

SCHAMU MACHOWSKI GRECO
ARCHITECTS, INC.
1016 MORTON STREET,
BALTIMORE, MD 21201
TEL 410.685.3582
FAX 410.625.4790

Address Chart	
Lot Number	Street Address
258	5215 WEST RUNNING BROOK
	COLUMBIA, MD. 21044

PROJECT	SECTION/AREA	PARCELS
RUNNING BROOK ELEMENTARY SCHOOL	9/5	258

DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/82	14	NT O.S.	30	FIFTH	6054.01

WATER CODE	SEWER CODE	5660000
E-01		

SITE IMPROVEMENT PLAN

"REVISED SITE DEVELOPMENT PLAN"

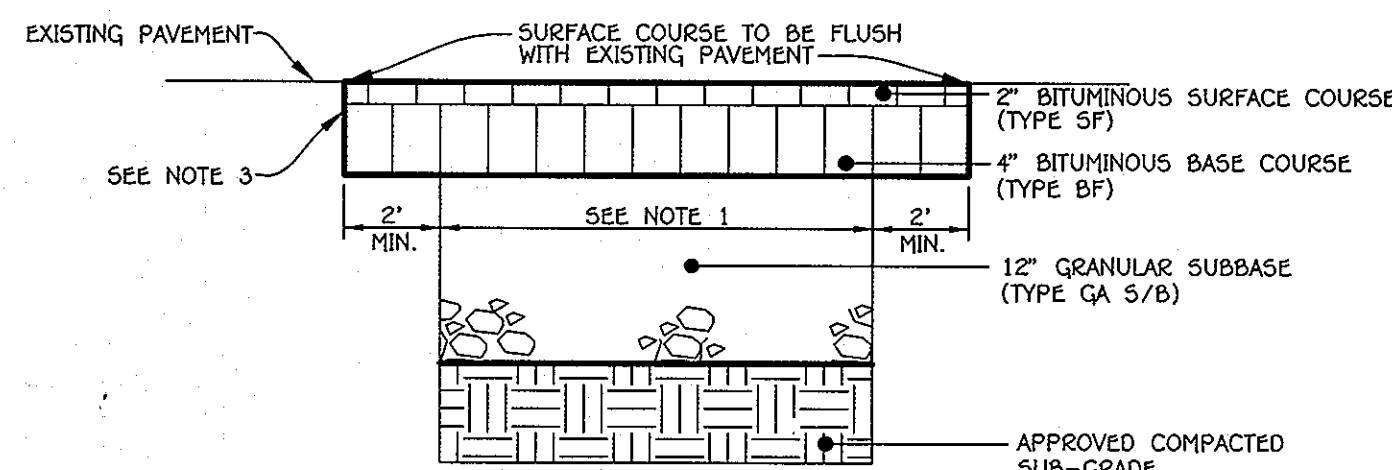
RUNNING BROOK ELEMENTARY SCHOOL

2 STORY CLASSROOM ADDITION AND 1 STORY CAFETERIA/MUSIC ADDITION

PARCEL No.: 258
TAX MAP No.: 30 GRID No.: 14
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: FEBRUARY 11, 2013

SHEET 11 OF 14

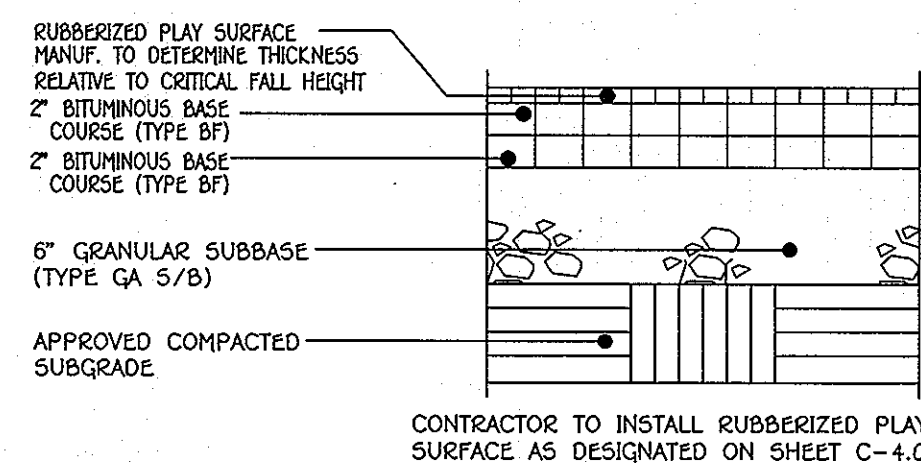
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10712 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2899



- NOTES:
1. AGGREGATE SUB-BASE WIDTH SHALL BE 6 FEET MINIMUM OR ACTUAL TRENCH WIDTH, WHICH EVER IS GREATER.
 2. HOT MIX ASPHALTIC PAVEMENT PATCH THICKNESS SHALL BE EQUIVALENT TO THE HEAVY DUTY PAVEMENT SECTION.
 3. CLEAN EXPOSED VERTICAL SURFACE OF ADJACENT PAVEMENT AND PLACE TACK COAT ON ALL VERTICAL SURFACES PRIOR TO PAVING.
 4. IF THE REMAINING EXISTING PAVEMENT IS LESS THAN 4" WIDE, THE RESIDUAL PAVEMENT SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED.
 5. SAW CUT FULL DEPTH ALL JOINTS OF EXISTING CONCRETE, BITUMINOUS, AND BASE PAVEMENTS.

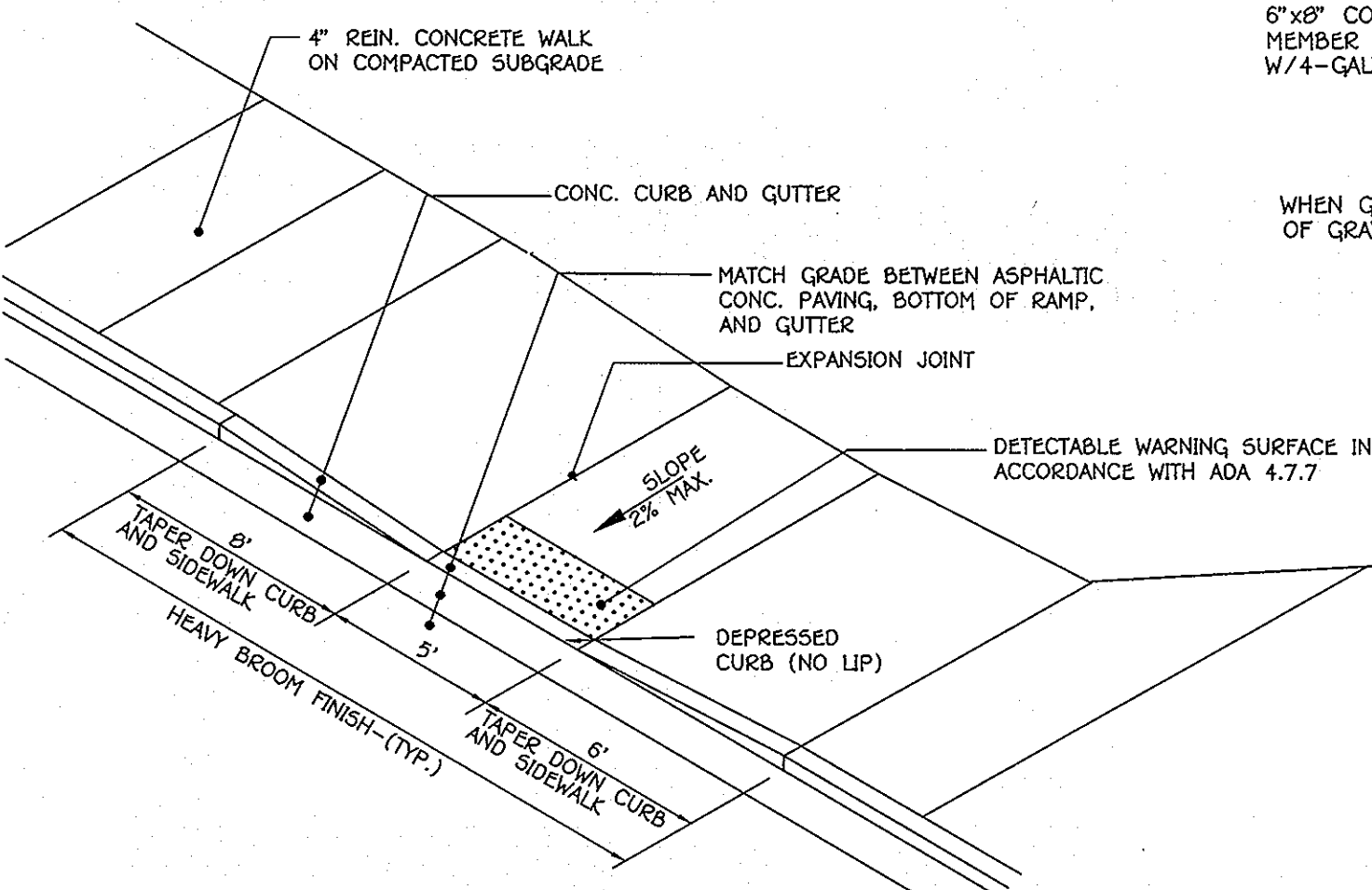
ASPHALTIC PATCH DETAIL

NO SCALE



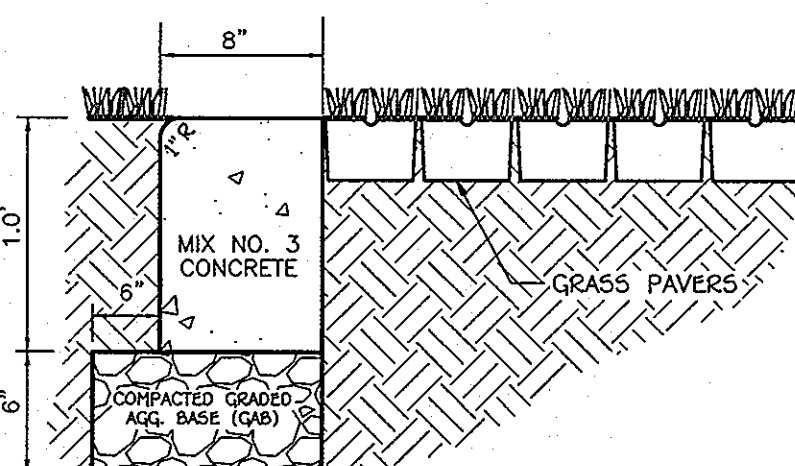
RUBBERIZED PLAY SURFACE DETAIL

NO SCALE



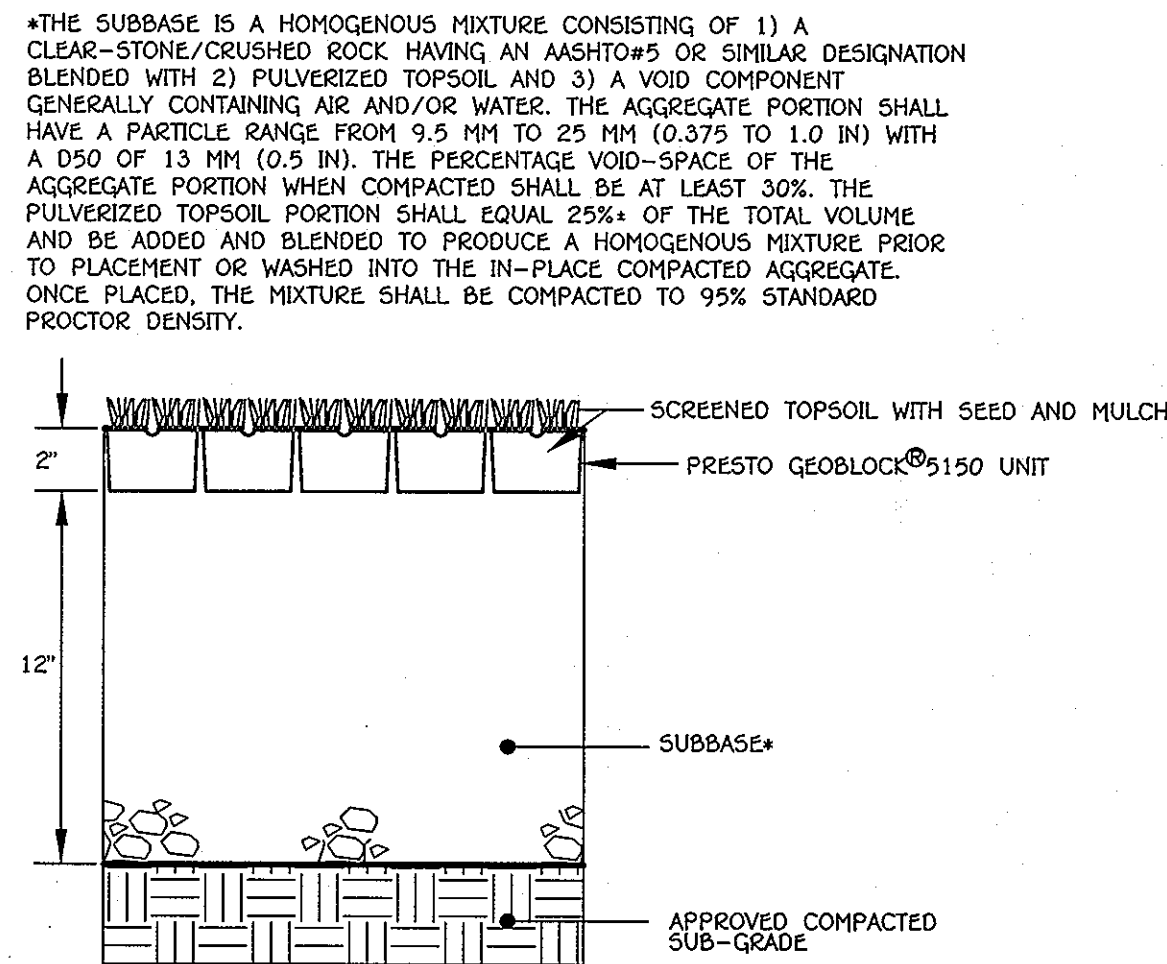
SIDEWALK RAMP DETAIL

NO SCALE



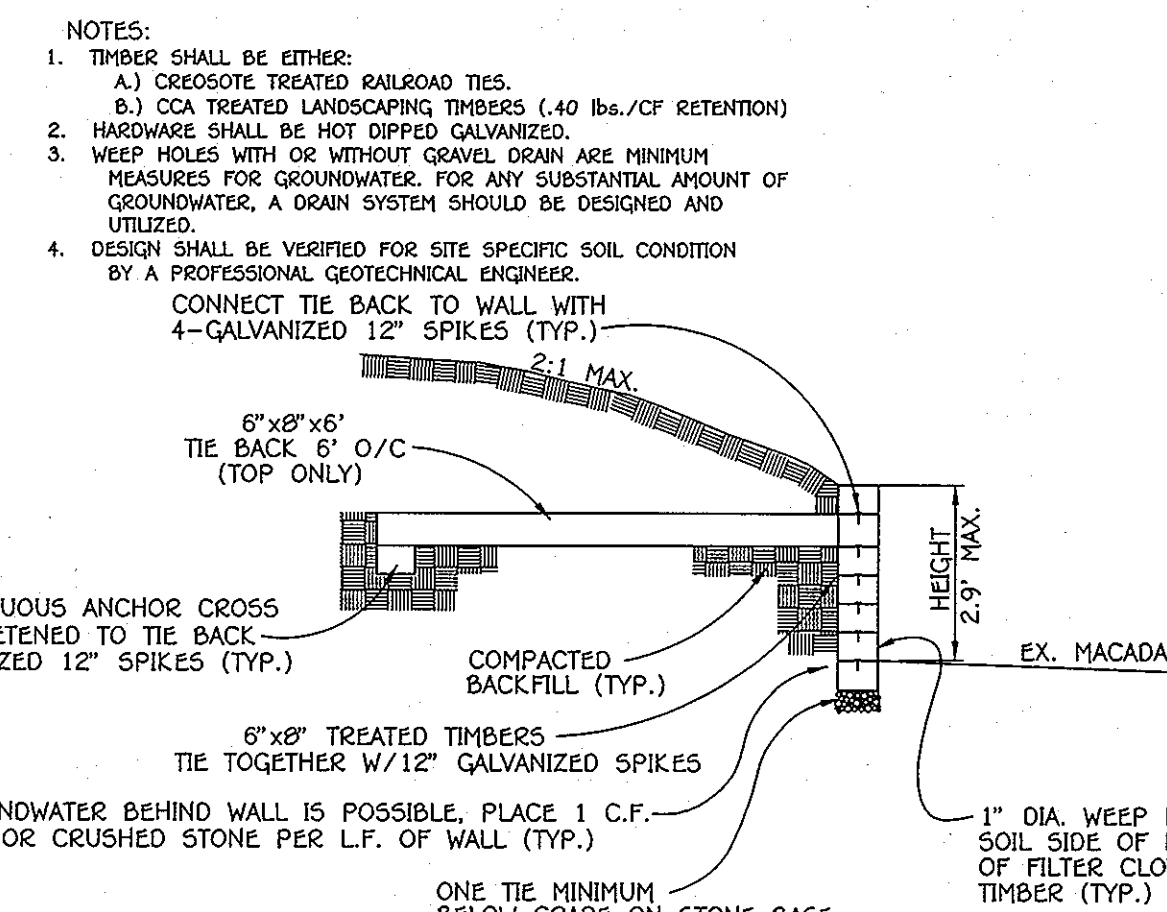
CURB FLUSH DETAIL

NO SCALE



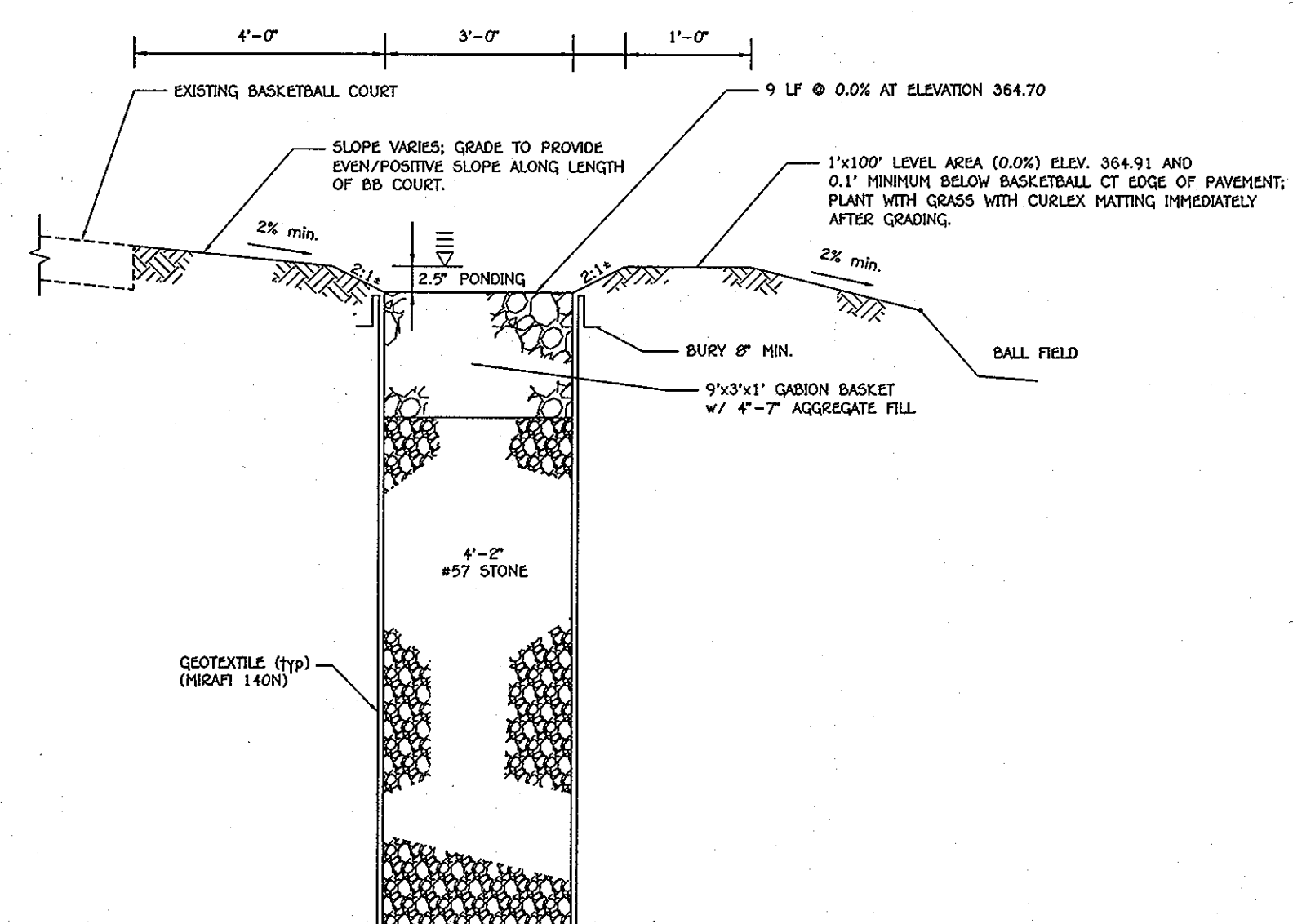
**GRASS PAVER SYSTEM
PRESTO GEOSYSTEMS - GEOBLOCK 5150**

NO SCALE



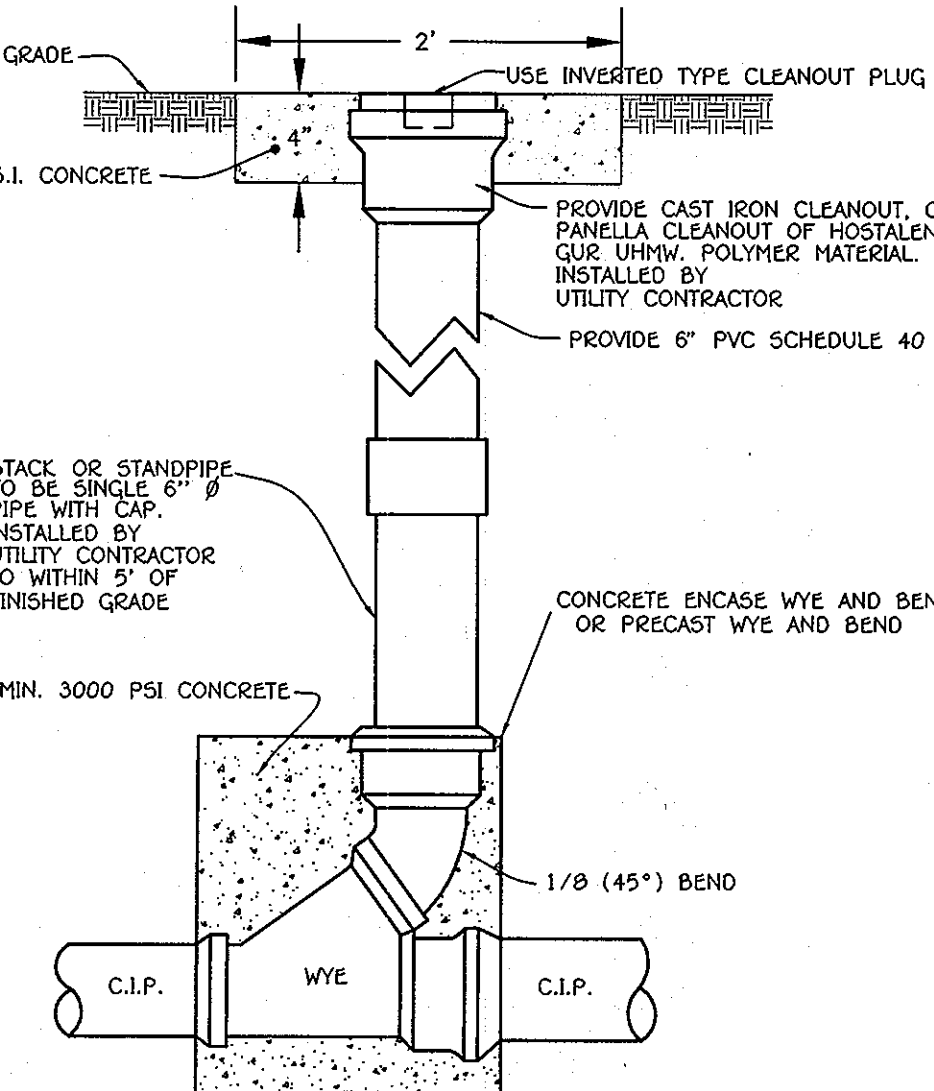
RETAINING WALL DETAIL

NO SCALE



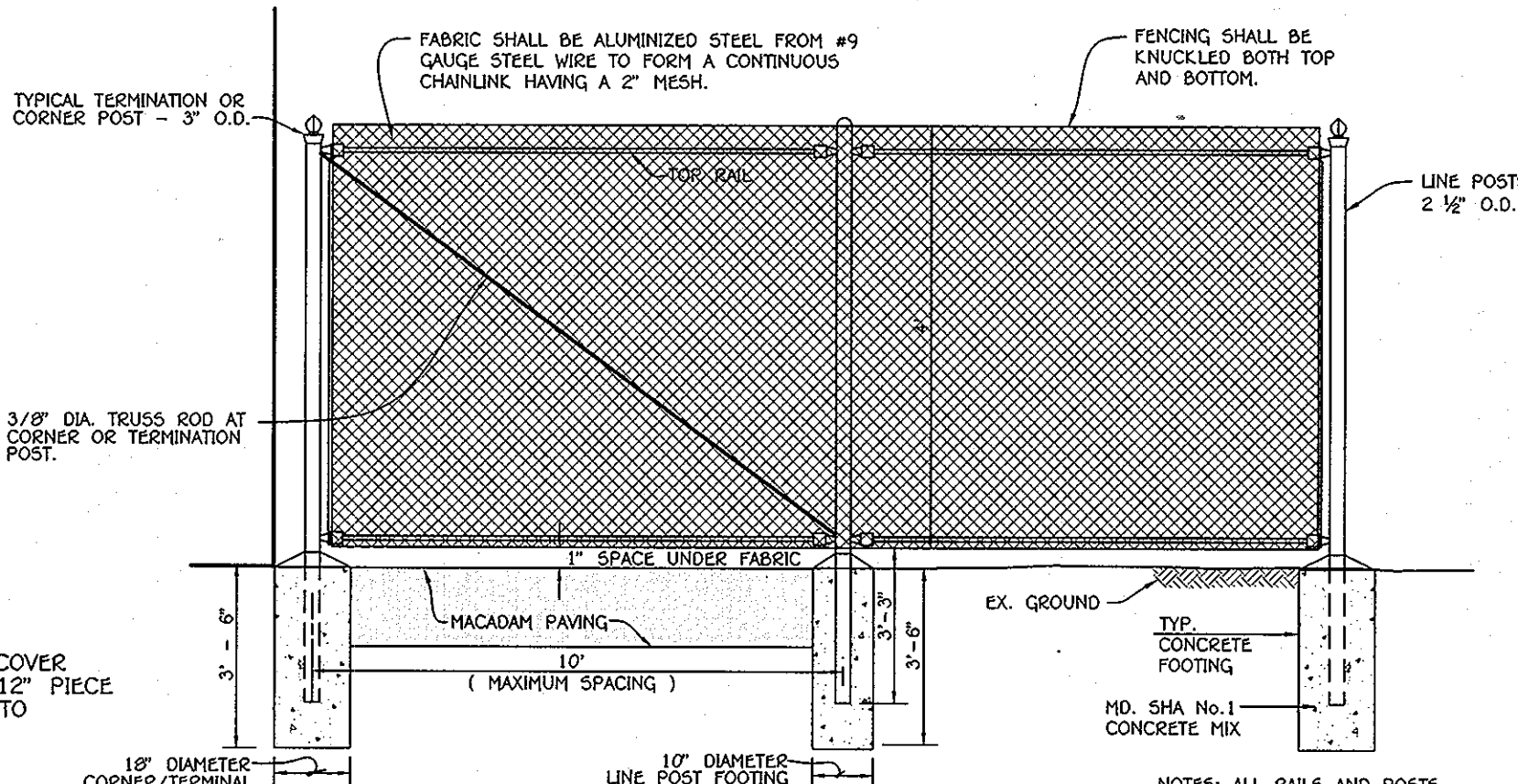
**STONE TRENCH (STONE WINDOW - 9 LF)
TYPICAL SECTION**

NO TO SCALE



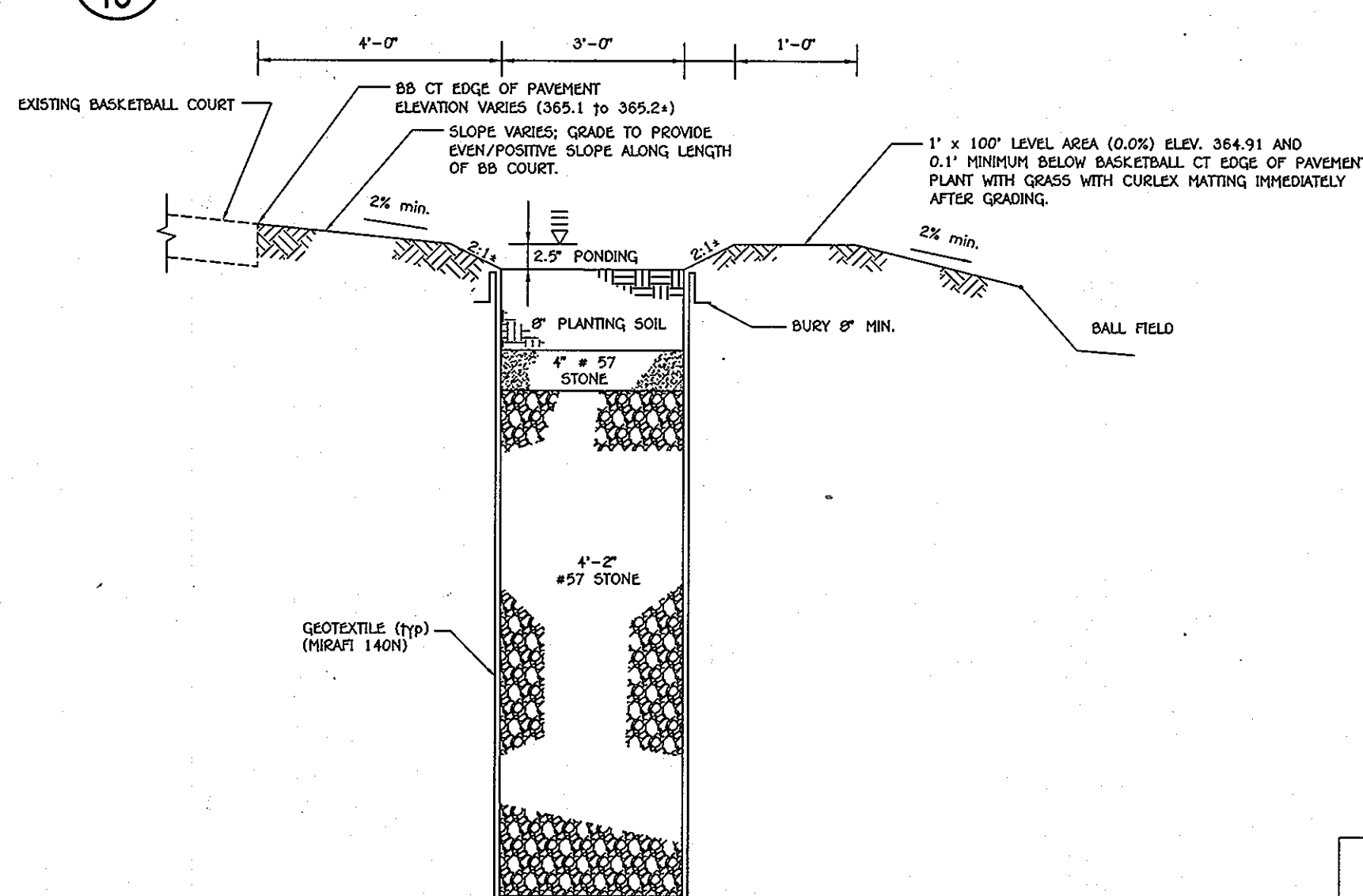
TYPICAL CLEAN-OUT

NO SCALE



CHAIN LINK FENCE DETAIL

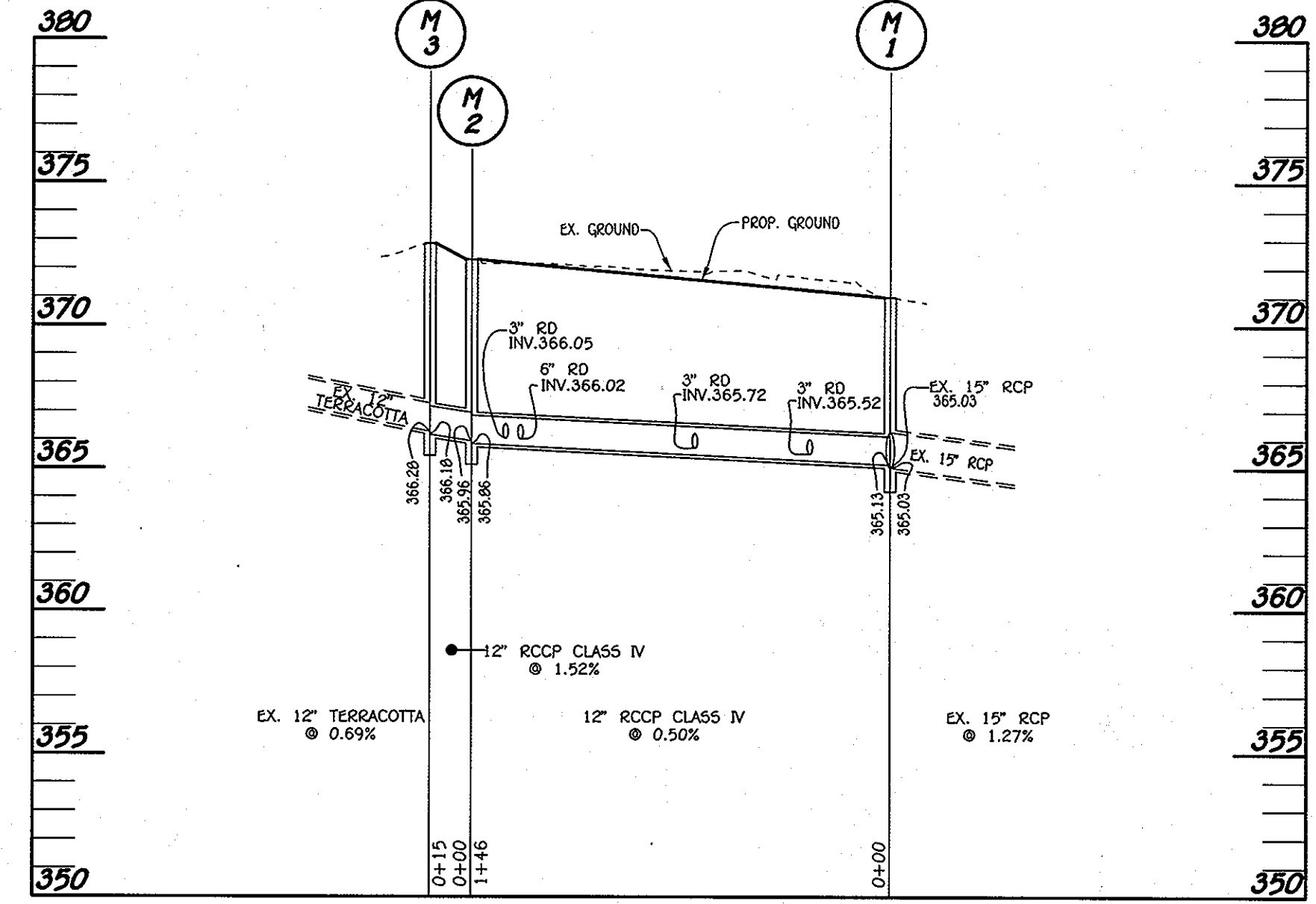
NO SCALE



**STONE TRENCH (GRASS COVER SEGMENT - 91 LF)
TYPICAL SECTION**

NOT TO SCALE

PIPE SCHEDULE (PRIVATE)		
SIZE	CLASS	LENGTH
3"	PVC	6 L.F.
6"	PVC	85 L.F.
12"	RCCP, CLASS IV	161 L.F.



PROFILE

SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

STRUCTURE SCHEDULE								
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	IN/IN	IN/OUT	COORDINATES	WIDTH	TYPE	REMARKS
M-1	PRIVATE	371.06	365.13 (12"), 365.03 (15")	365.03 (15")	N 568760.0212 E 1352624.3473	4'	STD. MANHOLE	G - 5.12
M-2	PRIVATE	372.31	365.96 (12")	365.86 (12")	N 568871.8949 E 1352530.6605	4'	STD. MANHOLE	G - 5.12
M-3	PRIVATE	372.51	366.28 (12")	366.18 (12")	N 568801.2145 E 1352541.7610	4'	STD. MANHOLE	G - 5.12

- STONE TRENCH NOTES:**
1. INSTALL 100 LF STONE TRENCH WITH SEGMENTS OF 91 LF GRASS COVERED AND A 9 LF GABION MATTRESS STONE "WINDOW".
 2. INSTALL STONE TRENCH WHEN BUILDING ADDITION CONSTRUCTION IS FINISHED AND ALL DISTURBANCE IS STABILIZED.
 3. THE STONE TRENCH SURFACE SHALL BE LEVEL (0.0%) AND IN A "SUMP" (KEEP GROUND ALONG EDGES AT FRONT, BACK, AND SIDES UP TO FORM A POOL DEPTH OF 2.5" (0.21 FT.). MINIMUM).
 4. PROVIDE A 1' WIDE LEVEL AREA ALONG THE NORTH EAST LENGTH OF THE STONE TRENCH (PARALLEL TO BASKETBALL COURT). THIS LEVEL SPREADER LIP SHALL BE 0.1 FT. MIN. BELOW THE EDGE OF THE BASKETBALL COURT. ADJUST SLOPE TO STONE TRENCH AS NECESSARY.
 5. THE STONE TRENCH MATERIALS ARE AS FOLLOWS:
 - PLANTING SOIL PER PLANTING SOIL SPECIFICATIONS OUTLINED IN MDC'S 2000 SWM MANUAL.
 - STONE AGGREGATE: MSHA SPECIFICATIONS AS SHOWN ON TYPICAL SECTION; AGGREGATE MUST BE FREE OF FINES, DIRT & DEBRIS.
 - GEOTEXTILE: PER MDE SWM MANUAL OR MERRIT 140N.
 - GABION: USE MACCAFERTSON OR EQUAL, PVC COATED.
 6. THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE STONE TRENCH UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).
 7. BOARDS SHALL NOT BE LEFT IN PLACE DURING THE CONSTRUCTION OF THE STONE TRENCH.
 8. GEOTEXTILE (FILTER FABRIC) SHALL BE PLACED AGAINST EXCAVATED SURFACES. SCARPY EARTH PRIOR TO GEOTEXTILE PLACEMENT. INSTALL GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS/RECOMMENDATIONS AND USE A 2 FT MINIMUM OVERLAP AND NOTCH ENDS WITH A 6" MINIMUM BURY OR EQUIVALENT ANCHORING METHOD.
 9. THE CONTRACTOR SHALL OBTAIN INDEPENDENT CERTIFICATION THAT THE SOILS AND OTHER MATERIALS MEET THE SPECIFICATIONS DURING THE AS-BUILT STAGE.
 10. THE STONE TRENCH FACILITIES SHALL BE PLANTED WITH GRASS ACCEPTABLE TO THE PUBLIC SCHOOL SYSTEM.

OPERATION AND MAINTENANCE SCHEDULE FOR STONE TRENCH

THE STONE TRENCHES SHALL BE INSPECTED AT LEAST TWICE PER YEAR (ONCE EACH IN THE SPRING AND FALL) AND AFTER HEAVY STORMS. THE OWNER IS RESPONSIBLE FOR MAINTAINING A DETAILED LOG OF THE MAINTENANCE INSPECTION FINDINGS AND A HISTORY OF THE COMPLETED WORK. THE LOG SHALL BE MADE AVAILABLE TO HOWARD COUNTY DPZ AND/OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UPON REQUEST.

STONE TRENCH FACILITY COMPONENTS TO BE INSPECTED AND MAINTAINED INCLUDE THE ITEMS AS FOLLOWS:

1. PLANT MATERIAL: GRASS SHALL BE REPLANT SHOULD THEY BE BARE AREAS.
2. SOIL LAYER: SHOULD STORMWATER POND FOR MORE THAN 48 HOURS, THE PLANTING SOIL LAYER SHALL BE REPLACED. THE OLD SOILS SHALL BE PROPERLY DISPOSED.
3. SPILLWAY OUTFALL INTERIOR SLOPES: ERODED AREAS SHALL BE REPAIRED (FILLED IN AND SEED) AS NEEDED. BARE AREAS SHALL BE TREATED AND RE-SEED.
4. REMOVE AND PROPERLY DISPOSE ACCUMULATED SEDIMENT GREATER THAN ONE (1) INCH.
5. WATERING MAY BE NEEDED DURING PROLONGED DRY PERIODS.

STONE TRENCH NOTES

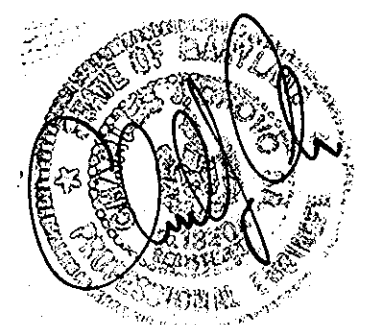
NO SCALE

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: MARCH 7, 2013

NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS MARCH 7, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN).

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS AND STORM DRAIN PROFILES FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - SUITE 200 BALTIMORE NATIONAL FIRE
ELLSWORTH CITY, MARYLAND 21201
(410) 461-2995



"Professional Certification. 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, License No. 13204, Expiration Date: November 3, 2014."

Charles J. Crowl, Sr., P.E.
3/19/13 DATE

DATE	DESCRIPTION	REVISION BLOCK
3/20/10	Director - Department of Planning and Zoning	
3/25/13	Chief, Division of Land Development	
5/21/13	Chief, Development Engineering Division	

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention Bruce Gist
410-313-6805

SCHAMU MACHOWSKI GRECO
ARCHITECTS, INC.
1016 MORTON STREET,
BALTIMORE, MD 21201
TEL 410.685.3582
FAX 410.625.4790

Address Chart	
Lot Number	Street Address
258	5215 WEST RUNNING BROOK
	COLUMBIA, MD. 21044

PROJECT	SECTION/AREA	PARCELS
RUNNING BROOK ELEMENTARY SCHOOL	9/5	258

DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
13/82	14	NT O.S.	30	FIFTH	6054.01

WATER CODE	SEWER CODE
E-01	5660000

STORM DRAIN PROFILE, STRUCTURE SCHEDULE AND DETAILS

"REVISED SITE DEVELOPMENT PLAN"

RUNNING BROOK ELEMENTARY SCHOOL

2 STORY CLASSROOM ADDITION AND 1 STORY CAFETERIA/MUSIC ADDITION

PARCEL No.: 258
TAX MAP No.: 30 GRID No.: 14
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY 11, 2013

SHEET 13 OF 14

DUST CONTROL

DEFINITION
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART. SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DICES AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

- PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOD, EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

SEQUENCE OF CONSTRUCTION

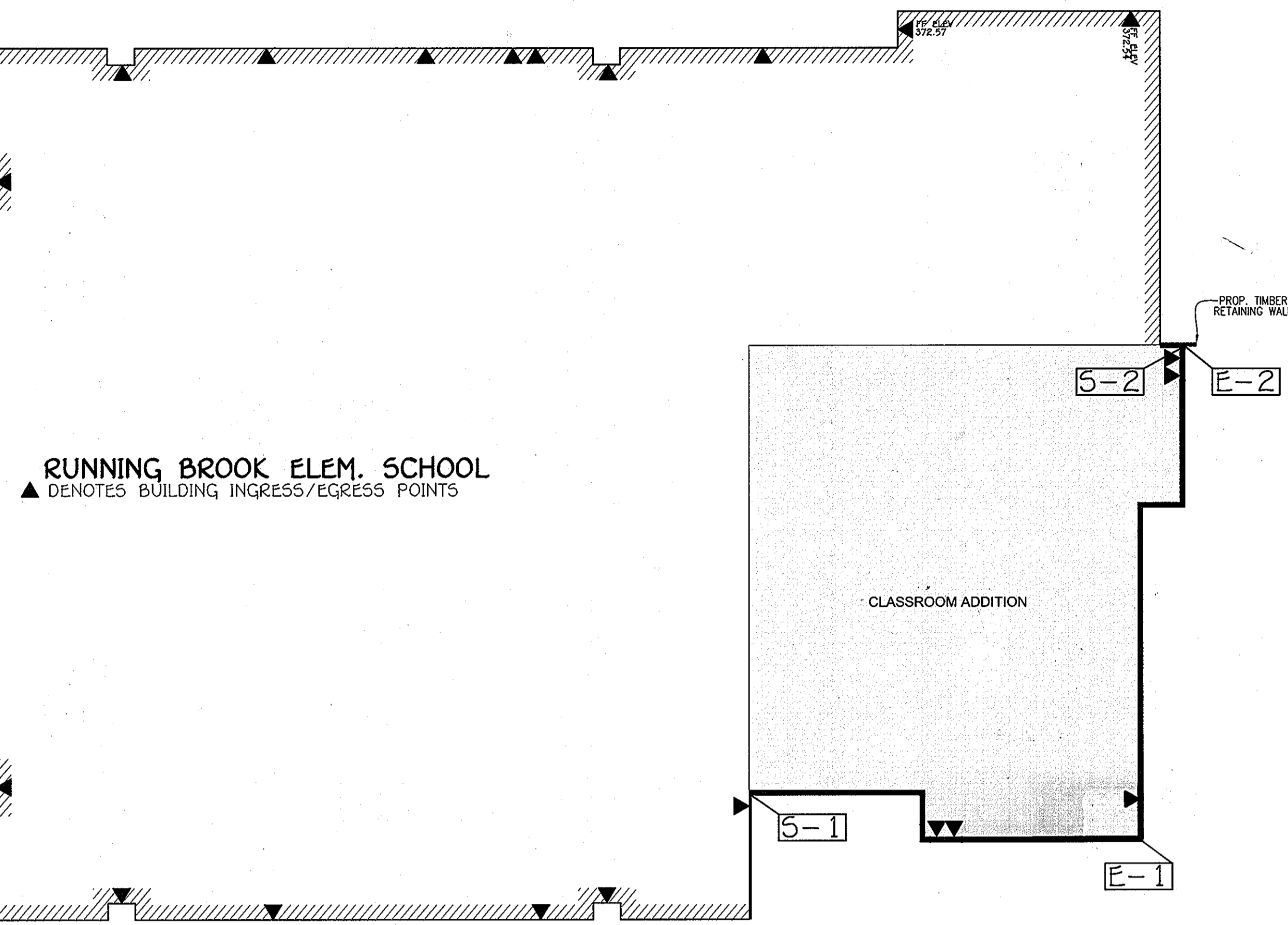
- OBTAIN GRADING PERMIT. (1 DAY)
- NOTIFY 'MISS UTILITY' AT 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313-1330 48 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS (1 DAY). INSTALL STABILIZED CONSTRUCTION ENTRANCES. (1 DAY)
- INSTALL SEDIMENT CONTROL MEASURES SHOWN ON SHEET 10. (2 DAYS)
- BEGIN DEMOLITION WORK SHOWN SHEET 11. (2 WEEKS)
- BEGIN BUILDING CONSTRUCTION. (6 WEEKS)
- INSTALL UTILITIES AND SIDEWALKS AS SHOWN ON PLANS. (1 WEEK)
- FINE GRADE ALL AREAS AND INSTALL PERMANENT SEEDING. (1 WEEK)
- FOLLOWING SUCCESSFUL STABILIZATION (i.e. ESTABLISHED VEGETATION OR PAVING) OF ALL DISTURBED AREAS, OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES. THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (1 WEEK)
- NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.
- SEQUENCE NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL EVENT AND ON A DAILY BASIS. REMOVE SEDIMENT FROM THE SUPER SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE 9.00 ACRES
AREA DISTURBED 0.50 ACRES
AREA TO BE ROOFED OR PAVED 0.70 ACRES
AREA TO BE VEGETATIVELY STABILIZED 0.20 ACRES
TOTAL CUT 1200 CU.YDS.
TOTAL FILL 1200 CU.YDS.
OFFSITE WASTE/ROBROW AREA LOCATION N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

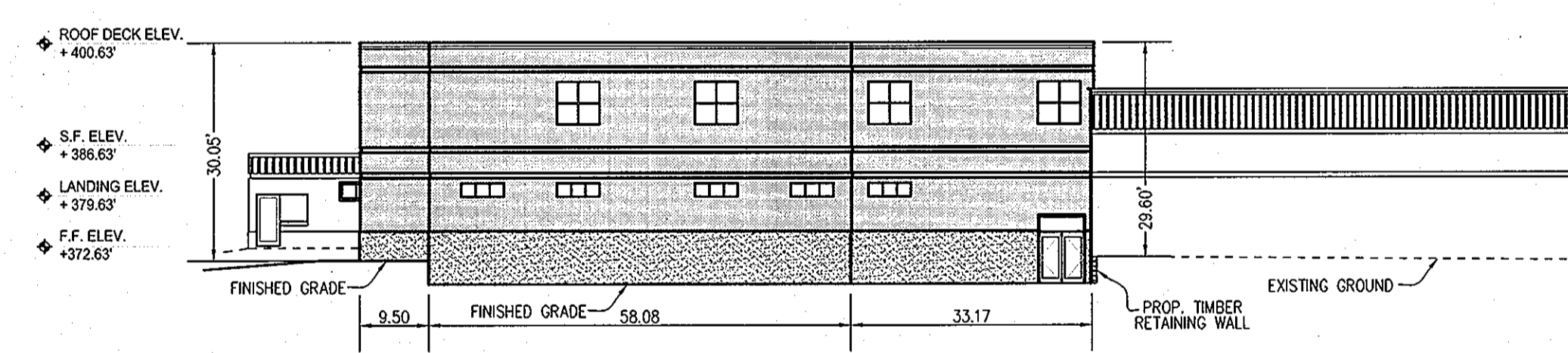
CLASSROOM ADDITION MEAN HEIGHT CHART

(S-1) SOUTH 1	28.33 FEET
(S-2) SOUTH 2	33.25 FEET
(E-1) EAST 1	30.05 FEET
(E-2) EAST 2	29.60 FEET
TOTAL	121.23 FEET
MEAN HEIGHT:	30.31 FEET

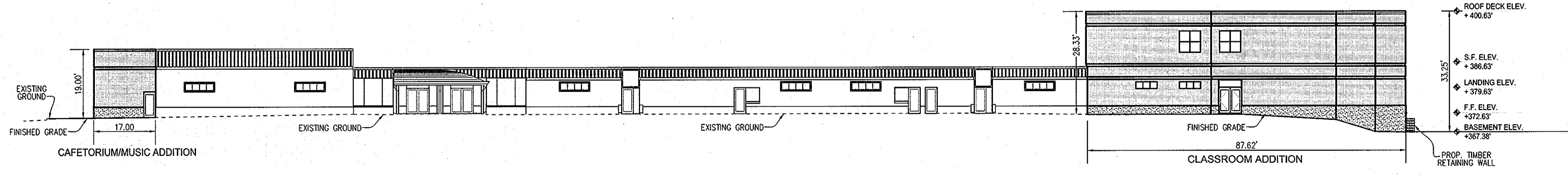


RUNNING BROOK ELEM. SCHOOL
▲ DENOTES BUILDING INGRESS/EGRESS POINTS

PLAN
SCALE: 1" = 20'



EAST ELEVATION
SCALE: 1" = 20'



SOUTH ELEVATION
SCALE: 1" = 20'

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE MARCH 7, 2013

NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS MARCH 7, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN).

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW SEDIMENT CONTROL NOTES AND BUILDING ELEVATIONS FOR THE PROPOSED BUILDING ADDITIONS.



ENGINEER'S CERTIFICATE
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: Charles J. Crowl, Sr., P.E. Date: 3/11/13

"Professional Certification. 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. License No. 13204, Expiration Date: November 3, 2014."
Signature of Engineer: Charles J. Crowl, Sr., P.E. Date: 3/11/13

DEVELOPER'S CERTIFICATE
"I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer: [Signature] Date: 3/11/13

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature of District: John R. Robertson Date: 3/13/13

9/16/10 REVIEWED 2 STORY CLASSROOM ADDITION
DATE DESCRIPTION REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning: Paul L. Gwede Date: 3/25/13
Chief, Division of Land Development: [Signature] Date: 3/22/13
Chief, Development Engineering Division: [Signature]

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention: Bruce Gist
410-313-6805

SCHAMU MACHOWSKI GRECO ARCHITECTS, INC.
1016 MORTON STREET,
BALTIMORE, MD 21201
TEL 410.685.3582
FAX 410.625.4790

Address Chart

Lot Number	Street Address
250	5215 WEST RUNNING BROOK COLUMBIA, MD. 21044

PROJECT	SECTION/AREA	PARCELS
RUNNING BROOK ELEMENTARY SCHOOL	9/5	250
DEED REF.	BLOCK NO.	ZONE
13/02	14	NT O.S.
TAX MAP	ELEC. DIST.	CENSUS TR.
30	FIFTH	6054.01
WATER CODE	E-01	SEWER CODE
		5660000

SEDIMENT CONTROL NOTES AND BUILDING ELEVATIONS

"REVISED SITE DEVELOPMENT PLAN"
RUNNING BROOK ELEMENTARY SCHOOL
2 STORY CLASSROOM ADDITION AND 1 STORY CAFETERIA/MUSIC ADDITION

PARCEL No.: 250
TAX MAP No.: 30 GRID No.: 14
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY 11, 2013

SHEET 14 OF 14