EMILIA'S ACROBATICS, GYMNASTICS ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE AND CHEERLEADING GYMNASIUM AND SCHOOL (5) WORKING DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH

THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL

ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

WATER IS PUBLIC, CONTRACT #24-1536-D. SEWER IS PUBLIC, CONTRACT #382-A-S.

THAT NEED TO BE MADE TO BE TRAFFIC BEARING.

83/91) AS SHOWN ON PLAT M.D.R. #14869.

EQUIPMENT THAT EMITS RADIATION.

F-89-145, ECP-15-045, WP-18-088

PARKING TABULATION

PARKING SPACES REQUIRED

TOTAL PARKING REQUIRED: TOTAL PARKING PROVIDED:

PROPOSED BUILDING (USEABLE AREA)

(BASED ON 1 SPACE/100 SQ. FT.)

BASED ON THE APPROVED PARKING STUDY INDICATING THAT EACH TRAIN

SPACES ARE TO BE PROVIDED ON SITE AND THE OWNER IS OBLIGATED

TO PROVIDE ADDITIONAL OFF SITE DURING HIGH USAGE TIMES AND THE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

SESSION WILL NOT EXCEED 55 STUDENTS AT ANY SESSION AND THE MAXIMUM NUMBER OF EMPLOYEES AND STAFF IS 5. SEVENTY-TWO PARKING

OWNER'S RESPONSIBILITY TO MANAGE AND RESOLVE DEFICIENCIES.)

CHIEF, DEVELOPMENT ENGINEERING DIVISION

22. THE PROPERTY IS NOT LOCATED IN WETLANDS.

ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT

ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE

O. STORMWATER MANAGEMENT DEVICES ARE COMPRISED OF FOUR MICRO-BIORETENTION (M-6) SYSTEMS THAT ARE OWNED, OPERATED, AND MAINTAINED PRIVATELY.

1. EXISTING UTILITIES ARE LOCATED BASED ON THE AVAILABLE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR IS TO ADJUST ANY STRUCTURE ELEVATION THAT NEED TO BE ADJUSTED. CONTRACTOR IS TO REPLACE OR FORTIFY ANY STRUCTURE

12. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF

4. THE BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO THE SYSTEM

OF COORDINATES ESTABLISHED IN THE MARYLAND STATE COORDINATE SYSTEM (NAD

FOLLOWING HOWARD COUNTY GEODÈTIC SURVEY CONTROL: 47IB WHICH WAS REPLACED

CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NOS. 47ID AND 47FC WERE USED FOR THIS PROJECT.

DOWNWARDS ON-SITE, AWAY FROM ALL ADJOINING RESIDENTIAL PROPERTIES AND PUBLIC

18. SIGNATURE COLOR TO BE USED FOR BUILDING EXTERIOR AND LED LIGHTING TO BE 19. ALL EXTERIOR LIGHT FIXTURES SHALL BE ORIENTED TO DIRECT LIGHT INWARDS AND

ROADS IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING

O. THERE IS NO CAPITAL PROJECT THAT WILL BE IMPACTED BY THIS PROJECT. FEE IN

1. HEALTH DEPARTMENT APPROVAL OF THIS SITE DEVELOPMENT PLAN (SDP) DOES NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATIONS ASSOCIATED WITH THIS PLAN PERMIT PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN THE LIMITS DESCRIBED BY THIS SDP WILL REQUIRE REVIEW AND APPROVAL BY THE HEALTH

LIEU OF ROAD IMPROVEMENTS HAS BEEN PROPOSED FOR THE MITIGATION OF IMPACTS

DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT NOT LIMITED TO, THOSE WHICH HAVE

SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE

13. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE BE DETERMINED AND APPROVED BY LICENSED GEOTECHNICAL ENGINEER.

5. CONTOURS AND ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) WITH LOCAL REFERENCE TO THE

7. THE PROPERTY IS NOT LOCATED WITHIN 100-YEAR FLOOD ZONE.

TO THE INTERSECTION OF ROUTE 1 AND WHISKEY BOTTOM ROAD.

23. THE SUBJECT PROPERTY IS ZONED CE-CLI PER THE OCTOBER 6, 2013

CONSERVATION EASEMENT AND 100 YEAR FLOOD PLAIN.

WIDE ENTRANCE TO FACILITATE THE TURNING MOVEMENT.

24. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW

REDLINE APPROVED JUNE 17, 2016. THERE IS NO REMAINING OBLIGATION.

BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THIS SDP-15-059.

STRUCTURES SHALL BE PERMITTED WITHIN WETLANDS, STREAM BUFFERS, FOREST

6. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED WITH THE

DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$5,610.00 FOR 6 SHADE TREES, . EVERGREEN TREES, 18 ORNAMENTAL TREES, 22 LF OF WALL AND 65 SHRUBS. IT IS TO

27. ON SEPTEMBER 15 THE DEVELOPMENT ENGINEERING DIVISION CHIEF APPROVED A REQUEST TO WAIVE DESIGN MANUAL VOLUME III, SECTION 2.6.D SUBJECT TO A 26'

COMPLY WITH ALL BUILDING PERMIT APPLICATION REQUIREMENTS OF THE

DATE OF SIGNATURE APPROVAL OF THE SITE DEVELOPMENT PLAN.

29. APPLICABLE HOWARD COUNTY PREVIOUS FILE NUMBERS: S-85-017, P-86-104,

THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL

WP-18-088. A REQUEST TO WAIVE SECTIONS 16.156 (I) AND (m), TO REACTIVATE AN APPROVED SITE DEVELOPMENT PLAN, WAS APPROVED BY THE DIRECTOR OF THE

FOR 60 DAYS' PERIOD FROM THE DATE OF THE ALTERNATIVE COMPLIANCE PETITION APPROVAL LETTER TO SUBMIT THE ORIGINAL MYLARS FOR EMILIA'S ACROBATICS GYM/SCHOOL (ON OR BEFORE OCTOBER 9, 2017). THE APPLICANT SHALL THEN

DEPARTMENT OF INSPECTION, LICENSES AND PERMITS IN ACCORDANCE WITH THE

WAIVER PETITION FILE NUMBER, REQUEST, SECTION OF THE REGULATIONS AND

APPROVAL DATE OF THE 60-DAY EXTENSION TO SUBMIT THE SDP ORIGINAL

30. ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH

THE APPLICANT SHALL ADD A GENERAL NOTE ON SHEET 1 REFERENCING THIS

18,900 SF

189 SPACES

72 SPACES

(A DETAILED PARKING STUDY WAS APPROVED, DATED AUGUST 2016, REVISED ON FEBRUARY, 2018,

72 SPACES *

12・5・1つ DATE

12-21-17

HEALTH DEPARTMENT APPROVAL OF THIS SITE DEVELOPMENT PLAN (SDP) DOES

PLAN. PERMIT PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN THE

THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED

LIMITS DESCRIBED BY THIS SDP WILL REQUIRE REVIEW AND APPROVAL BY THE

HEALTH DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT ARE NOT LIMITED T

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

FOODS, OR THAT MAY HAVE EQUIPMENT THAT EMITS RADIATION.

Howard County Health Department

NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATIONS ASSOCIATED WITH THIS

24. THE FOREST CONSERVATION OBLIGATION FOR THIS DEVELOPMENT IS FULFILLED BY USE

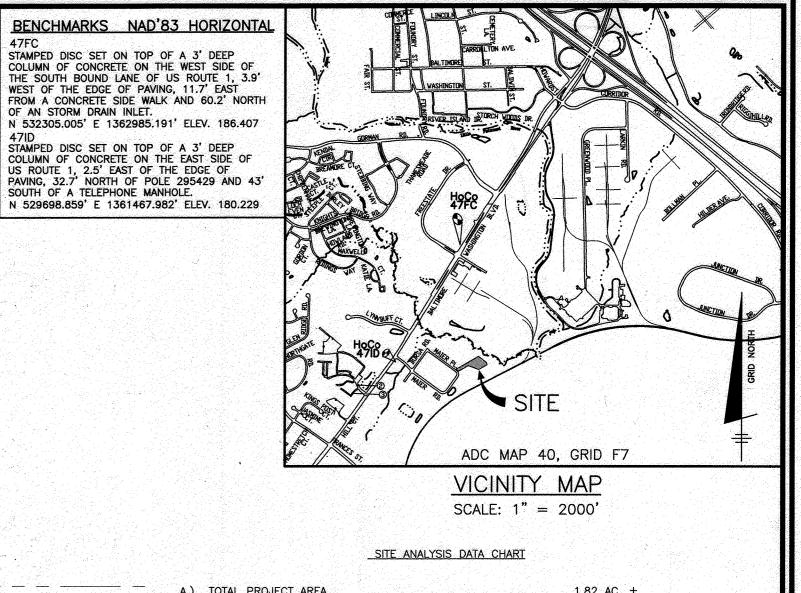
OF AN OFF-SITE FOREST CONSERVATION BANK. THE PHELPS PROPERTY (SDP-14-26FC) HAS SHOWN THE USE OF 0.61 ACRES OF BANK AREA FOR THIS DEVELOPMENT BY A

THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM 2 FOOT

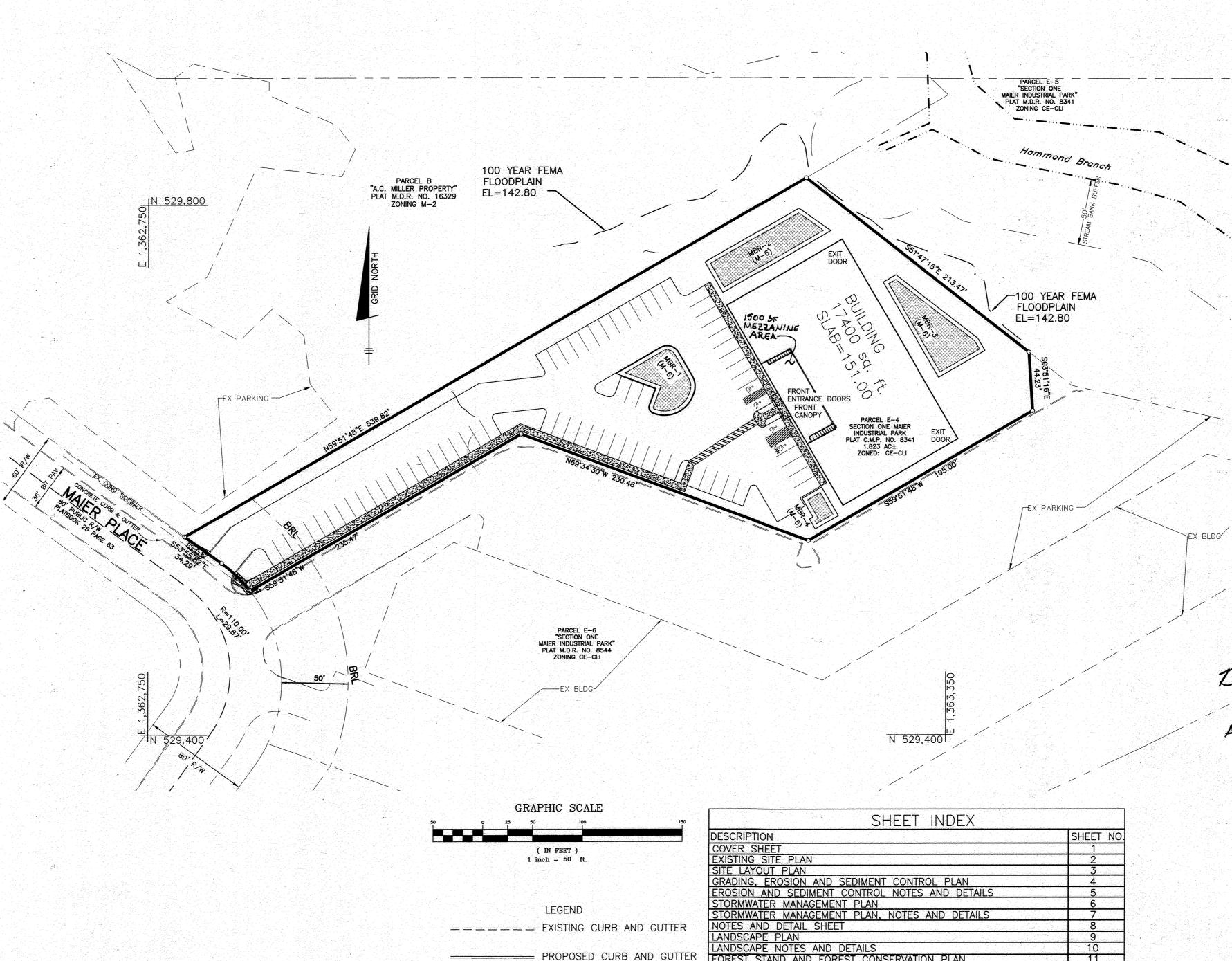
CONTOUR INTERVALS PREPARED BY LITTLE AND ASSOCIATES, INC. DATED OCTOBER, 2008

9000 MAIER PLACE LAUREL, MD 20723 PARCEL E-4, PLAT 8341

SITE DEVELOPMENT PLAN



OF AN STORM DRAIN INLET.



PROPERTY LINE

20' PUBLIC WATER

AND UTILITY EASEMENT

MICROBIORETENTION AREA

— UTILITY EASEMENT

PROPOSED

(MBR-1)

PROPOSED SIDEWALK

FOR BEI REVISION

rofessional Certification. I hereby certify that these

documents were prepared or approved by me, and that

fam a duly licensed professional engineer under the laws

License No. <u>45577</u> Expiration Date: <u>06.0818</u>

ONLY

of the State of Maryland.

FOREST STAND AND FOREST CONSERVATION PLAN PROFILES AND DETAILS

ADDRESS CHART

PERMIT INFORMATION CHART

SECTION/AREA

TAX MAP NO.

E-4 (P/0 873)

ELECTION

STREET ADDRESS

BLOCK NO.

SUBDIVISION NAME MAIER INDUSTRIAL PARK

PLAT CMP # 8341

9000 MAIER PLACE

ZONE CE-CLI

BUILDING ELEVATIONS

OWNER/DEVELOPER

EMILIA ACROGYMNASTICS

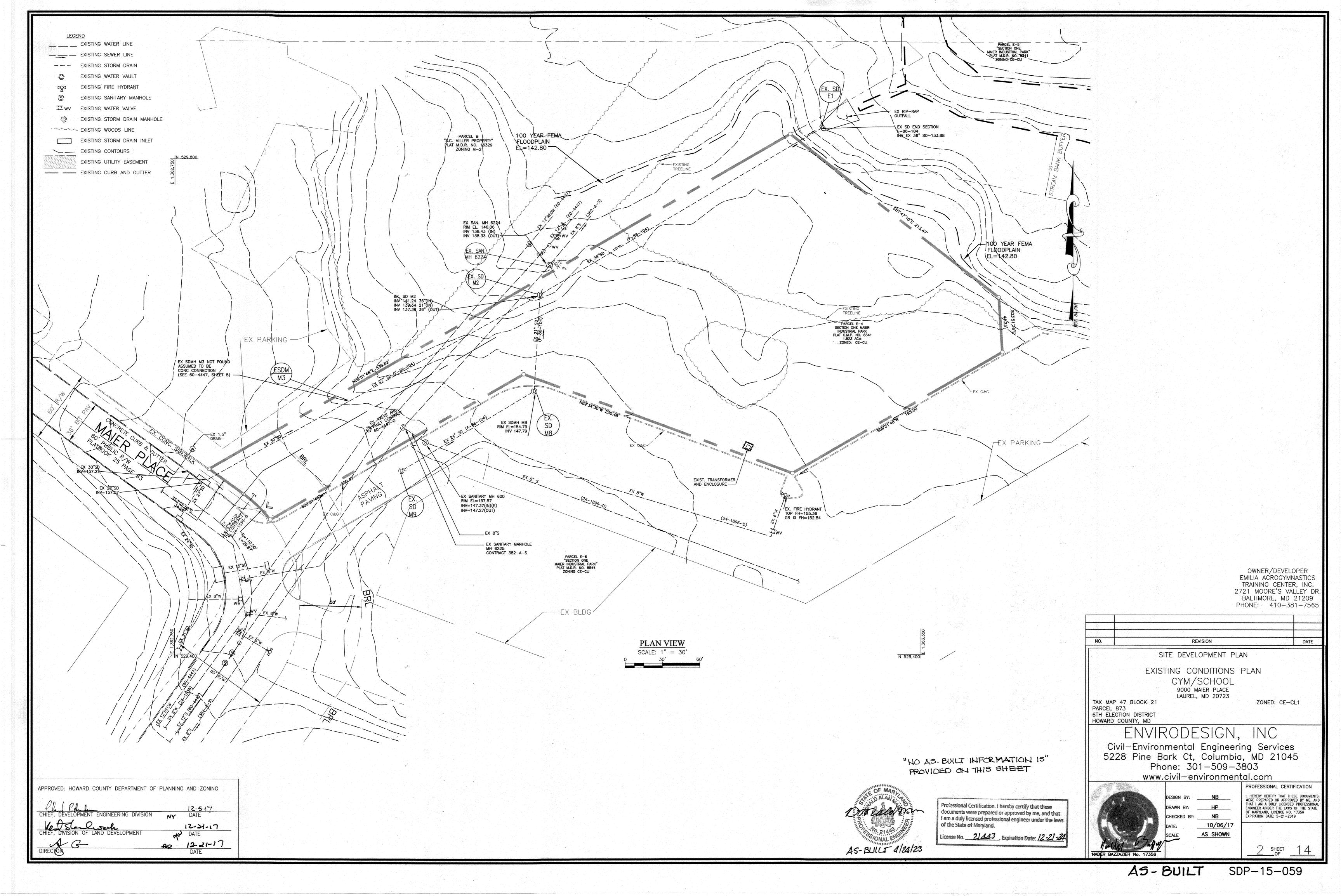
TRAINING CENTER, INC.

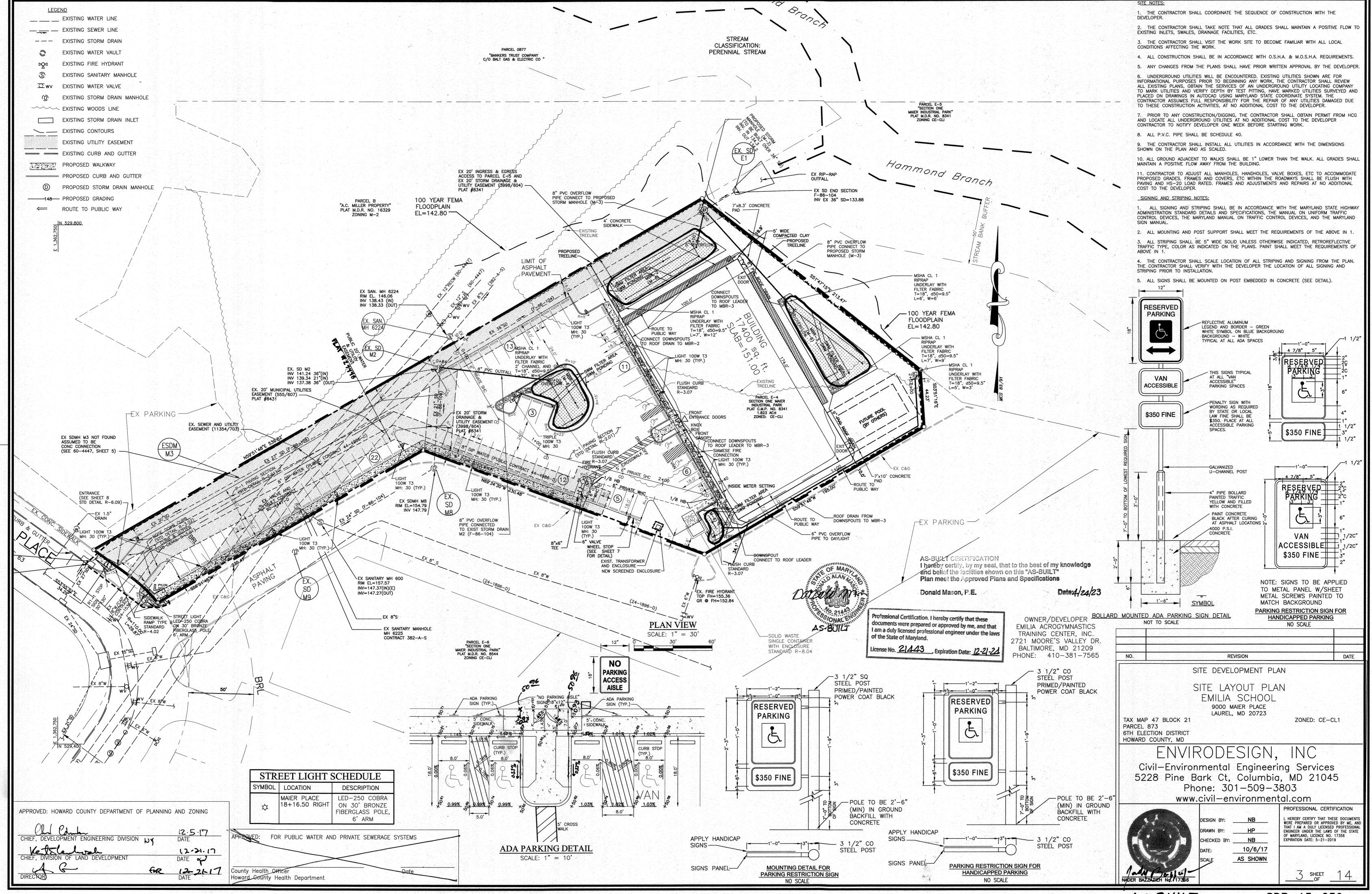
2721 MOORE'S VALLEY DR.

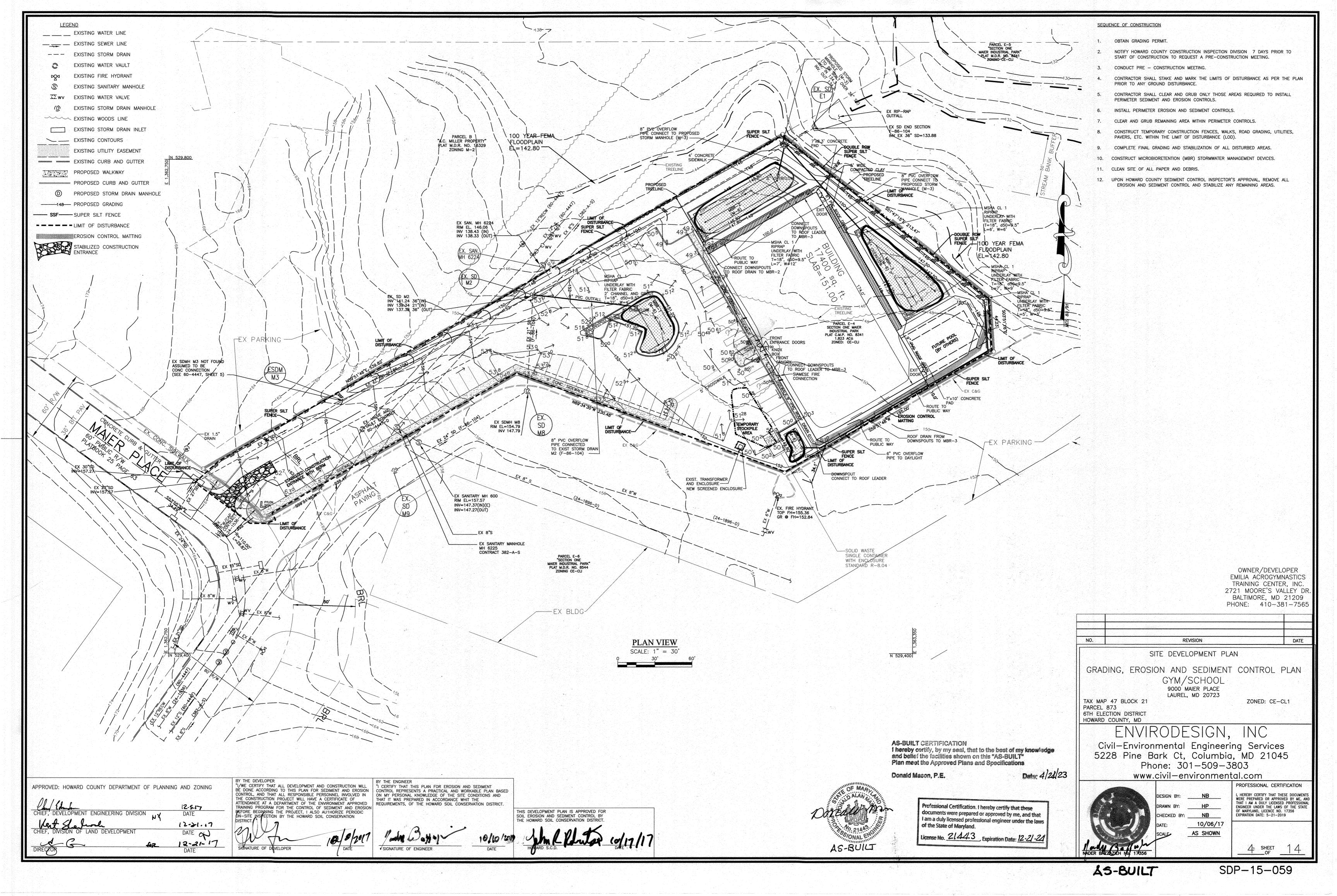
BALTIMORE, MD 21209 PHONE: 410-381-7565

1.82 AC. ± 1.82 AC. ± CE-CLI 17400 SQ. FT. 15T FLOOR 1500 \$Q. FT. MEZZANINE F.) FLOOR SPACE ON EACH LEVEL OF BLDG PER USE. 18,900 SQ.FT. TOTAL G.) TOTAL NUMBER OF UNITS ALLOWED H.) TOTAL NUMBER OF UNITS PROPOSED MAXIMUM NUMBER OF EMPLOYEES. 172-BASED ON PARKING SHOOY SEE NOTE BELOW LEFT COLNER L.) OPEN SPACE ON-SITE M.) AREA OF RECREATIONAL OPEN SPACE REQUIRED. AREA OF RECREATIONAL OPEN SPACE PROVIDED. 17400 SQ. FT. N.) BUILDING COVERAGE OR SITE. 22% 0.) APPLICABLE DPZ FILE REFERENCES ECP-15-045, SDP-15-059 - EXIT DOORS DOORS FINISHED FLOOR EL. 151.00 OVERHEAD → OVERHEAD DOORS -DOORS -ENTRANCE **DOORS** 20.17'x4.17' CANOPY FIRST FLOOR SLAB PLAN 1" = 30'SEE ELEVATION PLAN FOR ELEVATIONS/DETAILS "NO AS-BUILT INFORMATION IS" PROVIDED ON THIS SHEET 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. 2/4/3 ___ Expiration Date: /2-2/-24 BEI #1 REVISE BUILDING AREA FOR MEZZANINE, UPDATE PARKING 3.18.18 SITE DEVELOPMENT PLAN COVER SHEET EMILIA SCHOOL 9000 MAIER PLACE LAUREL, MD 20723 TAX MAP 47 BLOCK 21 ZONED: CE-CL1 PARCEL 873 **6TH ELECTION DISTRICT** HOWARD COUNTY, MD ENVIRODESIGN, INC Civil—Environmental Engineering Services 5228 Pine Bark Ct, Columbia, MD 21045 Phone: 301-509-3803 www.civil-environmental.com PROFESSIONAL CERTIFICATION ENGINEER UNDER THE LAWS OF THE STATE F MARYLAND, LICENCE NO. 17356 EXPIRATION DATE: 5-21-2019 10/6/2017

AS SHOWN







SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS

I. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS,

II. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING

III. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREA OVER 5 ACRES.

B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

I. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES. SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

II. FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS SHALL ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTEE OF THE PRODUCER.

III. LIME MATERIALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SIEVE AND 98 -100% WILL PASS THROUGH A #20 MESH SIEVE

IV. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 -5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

C. SEEDBED PREPARATION I. TEMPORARY SEEDING

A. SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3" TO 5" BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED. CONDITION. SLOPED AREAS (GREATER THAN 3:1) SHOULD BE TRACKED LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE .

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS

C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 -5" OF SOIL BY DISKING OR OTHER SUITABLE MEAN

II PERMANENT SEEDING

A. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT:

I. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING

BY A RECOGNIZED SEED LABORATORY. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THE JOB.

1. SOIL PH SHALL BE BETWEEN 6.0 AND 7.0

2. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM).

3. THE SOIL SHALL CONTAIN LESS THAN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (> 30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVEGRASS OR SERECIA LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (< 30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.

4. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT.

SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH SECTION 21 "STANDARD AND SPECIFICATION FOR TOPSOIL" OF THE 1994 MD STANDARDS SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

SEED MIXTURE (HARDINESS ZONE 6B FROM TABLE 26				FERTILIZER RATE	LIME RATE	
SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	ATES SEEDING DEPTHS (10-10-1			
ANNUAL RYEGRASS	50	2/1 - 4/30 8/15 - 11/1	1/4" - 1/2"	600 LB/AC (15 LB/1000SF)	2 TON/AC (100 LB/1000SF)	
RYE PLUS	150	5/1 - 8/14	1"			

SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE 25		NESS ZONE 6B)			FERTILIZER RATE (10-20-20)		LIME RATE	
	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	N	P205	K 20	
	TALL FESCUE (85%)	125	3/1 - 5/15	1/4"				
3	PERENNIAL RYE PLUS	15	8/15 - 11/15	1/4"	90 LB/AC (2.0 LB/	175 LB/AC (4 LB/AC	175 LB/AC 4 LB/	2 TONS/AC
	KENTUCKY BLUEGRASS (5%)	10		1/4"	1000 SF)	1000 SF)	1000 SF)	1000 SF)

NOTE: FOR DATES 5/16 - 8/14 USE TEMPORARY SEEDING METHOD OR

ADD - 10 LBS./AC. OF MILLET TO SEED MIXTURE NO. 3 SEED SPECIFICATIONS

I. AREAS PREVIOUSLY GRADED IN CONFORMANCE WITH THE DRAWINGS SHALL BE MAINTAINED IN A TRUE AND EVEN GRADE, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREA AND TO CREATE

HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN A SLOPE.

2. APPLY SOIL AMENDMENTS AS PER SOIL TEST OR AS INCLUDED ON THE PLANS. D. MIX SOIL AMENDMENTS INTO THE TOP 3 - 5 INCHES OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS LAWN AREAS SHOULD BE RAKED TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE. STEEP SLOPES (STEEPER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP I -3 INCHES OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

12.5.17 DATE 12-21-17 DATE (V) 12-31-17

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WIL

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

BEFORE BEGINNING THE PROJECT, LALSO AUTHORIZE PERIOD

SIGNATURE OF ENGINEER

NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF

3. INOCULANT - THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANT AS DIRECTED ON PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75-80° F. CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS

METHODS OF SEEDING

AND WITHOUT INTERRUPTION.

HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER), BROADCAST OR DROP SEEDER, OR A CULTIPACKER SEEDER.

1. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING: NITROGEN-MAXIMUM OF 100 LBS. PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS): 200 POUNDS/ACRE: K20 (POTASSIUM): 200

2. LIME - USE ONLY GROUND AGRICULTURAL LIMESTONE, (UP TO 3 TONS PER ACRE MAY BE

APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY

HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. 3. SEED AND FERTILIZER SHALL BE MIXED ON SITE AND SEEDING SHALL BE DONE IMMEDIATELY

 DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. A. SEED SPREAD DRY SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE TEMPORARY OR PERMANENT SEEDING SUMMARIES OR TABLES 25 OR 26. THE SEEDED AREA SHALL THEN BE ROLLED WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL

B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH

OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. III. DRILL OR CULTINACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH

A. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.

B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)

I. STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE OR OAT STRAW, REASONABLY BRIGHT IN COLOR, AND SHALL NOT BE MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW.

II. WOOD CELLULOSE FIBER MULCH (WCFM)

A. WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

B. WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY

C. WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

D. WCFM SHALL BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

E. WCFM SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL

F. WOOD CELLULOSE FIBER MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH TO APPROXIMATELY 10 MM., DIAMETER APPROXIMATELY 1 MM., PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM, AND WATER HOLDING CAPACITY OF 90% MINIMUM.

NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE A STAND ONE SPECIES OF GRASS IS DESIRED.

G. MULCHING SEEDED AREAS - MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY

I. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS AND SEEDING CAN BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS

II. WHEN STRAW MULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1 AND TWO INCHES. MULCH APPLIED SHALL ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED. THE RATE SHOULD BE

III. WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1.500. LBS. PER ACRE. THE WOOD CELLUI OSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER

H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON SIZE OF AREA AND EROSION HAZARD:

ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF TWO (2) INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE

I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND

APPLIED AT A NET DRY WEIGHT OF 750 POUNDS/ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER

III. APPLICATION OF LIQUID BINDERS SHOULD BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS, THE REMAINDER OF AREA SHOULD BE APPEAR UNIFORM AFTER BINDER APPLICATION. SYNTHETIC BINDERS -SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH.

IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

GENERAL CONSTRUCTION NOTE:

THE CONTRACTOR SHALL BERM CONSTRUCT A SECONDARY CONTAINMENT WHEN USING TEMPORARY FUEL STORAGE TANK ON SITE.

STANDARD STABILIZATION NOTE:

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDITURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROL, DIKES, SWALES DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN :3 HORIZONTAL TO 1 VERTICAL (3:1);; AND FOURTEEN DAYS (I4) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

SOIL CONSERVATION DISTRICT

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PER-SONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS

PREPARED IN ACCORDANCE WHIT THE REQUIREMENTS, OF THE HOWARD

STANDARD EROSION & SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY SCS (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF WMA.

2. THE CONTRACTOR MUST NOTIFY HOWARD COUNTY IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:

A. THE REQUIRED PRE-CONSTRUCTION MEETING.

 B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES. C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORM WATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY

 PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S). E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.

F. PRIOR TO FINAL ACCEPTANCE.

3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE AGENCY INSPECTOR OR SCS INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAYBE MADE IN THE FIELD WITH THE APPROVAL OF THE SCS INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM SCS INSPECTOR AND AGENCY INSPECTOR THE CONTRACTOR MUST OBTAIN PRIOR AGENCY AND SCS APPROVAL FOR CHANGES TO THE SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.

4. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.

5. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM WMA INSPECTOR AND AGENCY INSPECTOR.

6. ALL SEDIMENT BASINS, TRAP EMBANKMENTS AND SLOPES, PERIMETER DIKES, SWALES, AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3: 1 SHALL BE STABILIZED WITH SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURES AS SOON AS POSSIBLE BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER ESTABLISHMENT. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. (REQUIREMENT FOR STABILIZATION MAY BE REDUCED TO THREE (3) DAYS FOR SENSITIVE AREAS.)

7. THE CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN FOURTEEN (14) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. (REQUIREMENT MAYBE REDUCED TO SEVEN (7) DAYS FOR SENSITIVE AREAS.)

8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO THE DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

THE SITE'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF HOWARD COUNTY AND AGENCY RESPONSIBLE FOR PROJECT.

 SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING PROTECTIVE DEVICES TO LOWER THE WATER DOWNSLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. PROTECTIVE METHODS MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.

11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING. RIPRAP OR BY OTHER APPROVED STABILIZATION MEASURES.

12. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF HOWARD COUNTY INSPECTOR AND AGENCY INSPECTORS, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL

13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3: 1 WILL BE PERMITTED IN THE LAWN MAINTENANCE AREAS. A SLOPE GRADIENT OF UP TO 2: 1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2: 1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.

14. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO: PREVENT WATER FROM STANDING ON THE SURFACE MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL, AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

15. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN TWENTY (20) FEET OF A FOUNDATION WHICH IS EXISTING OR UNDER CONSTRUCTION. NO STRUCTURE MAY BE CONSTRUCTED WITHIN TWENTY (20) FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.

16. THE HOWARD COUNTY INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.

" NO AS-BUILT INFORMATION 15" PROVIDED ON THIS SHEET

Professional Certification. I hereby certify that these

documents were prepared or approved by me, and that arm a duly licensed professional engineer under the laws of the State of Maryland. License No. 21413 Expiration Date: 12-21-24

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

16. THE HOWARD COUNTY INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY

17. ALL TRAP DEPTH DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS MUST HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS SHALL HAVE STABLE INFLOW POINTS.

18. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING AND GROUND COVERS.

19. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET

20. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.

21. ALL WATER REMOVED FROM EXCAVATED AREAS (E.G. UTILITY TRENCHES) SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE FROM THE SITE (I.E. VIA FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE).

22. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION FOR AREAS OUTSIDE OF DESIGNED CONTROLS OR AS DIRECTED BY ENGINE:ER OR WMA INSPECTOR:

A. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF

B. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE

C. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY, UNLESS;

D. TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.

23. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE: FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST 42 INCHES HIGH HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. THE SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL

24. OFF-SITE SOIL OR BORROW AREAS ON STATE OR FEDERAL PROPERTY MUST HAVE PRIOR APPROVAL BY SCS AND OTHER APPLICABLE STATE, FEDERAL AND LOCAL AGENCIES; OTHERWISE, APPROVAL MUST BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

25. SITES WHERE INFILTRATION DEVICES ARE USED FOR THE CONTROL OF STORMWATER, EXTREME CARE MUST BE TAKEN TO PREVENT RUNOFF FROM UNSTABILIZED AREAS FROM ENTERING THE STRUCTURE DURING CONSTRUCTION, SEDIMENT CONTROL DEVICES PLACED IN INFILTRATION AREAS MUST HAVE BOTTOM ELEVATIONS AT LEAST TWO (2) FEET HIGHER THAN THE FINISH GRADE BOTTOM ELEVATION OF THE INFILTRATION PRACTICE. WHEN CONVERTING A SEDIMENT TRAP TO AN INFILTRATION DEVICE, ALL ACCUMULATED SEDIMENT MUST BE REMOVED AND DISPOSED OF PRIOR TO FINAL GRADING OF INFILTRATION DEVICE.

26. WHEN A STORM DRAIN SYSTEM OUTFALL IS DIRECTED TO A SEDIMENT TRAP OR SEDIMENT BASIN AND THE SYSTEM IS TO BE USED FOR TEMPORARILY CONVEYING SEDIMENT LADEN WATER, ALL STORM DRAIN INLETS IN NON-SUMP AREAS SHALL HAVE TEMPORARY ASPHALT BERMS CONSTRUCTED AT THE TIME OF BASE PAVING TO DIRECT GUTTER FLOW INTO THE INLETS TO AVOID SURCHARGING AND OVERFLOW OF INLETS IN SUMP AREAS.

27. SITE INFORMATION: TOTAL AREA OF PROJECT SITE 1.825 ACRES AREA DISTURBED **1.825 ACRES** AREA TO BE ROOFED OR PAVED **0.81 ACRES** 3000 CU, YDS TOTAL CUT

OFF - SITE WASTE/BORROW AREA LOCATION AS DETERMINED BY THE CONTRACTOR CUT/FILL IS FOR INFORMATION PURPOSE ONLY!. CONTRACTOR TO VERIFY ALL

EARTHWORK QUANTITIES TO HIS/HER SATISFACTION BEFORE ANY BIDS.

3000 CU. YDS.

GENERAL NOTES:

erosion, sedimentation, and changes to drainage patterns.

accordance with Section B-3 Land Grading.

impermeable sheeting.

B-3 Land Grading.

erosion and sediment control plan.

4. Access the stockpile area from the upgrade side.

concentrated flow in a non-erosive manner.

TOTAL FILL / REFILL

1. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.

2. AREAS NOT RECEIVING PAVING OR GRAVEL SHALL BE SEEDED AND MULCHED. SEE TEMPORARY AND PERMANENT SEEDING UNDER VEGETATIVE STABILIZATION METHODS AND MATERIALS, THIS SHEET.

B-4-8 STANDARDS AND SPECIFICATIONS

Definition: A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose: To provide a designated location for the temporary storage of soil that controls the potential for

FOR STOCKPILE AREA

Conditions Where Practice Applies

Criteria

and based on a side slope ratio no steeper than 2:1. Benching must be provided in

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

1. The stockpile location and all related sediment control practices must be clearly indicated on the

2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material

5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as

an earth dike, temporary swale or diversion fence. Provisions must be made for discharging

7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as

8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile

6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment

Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.

Maintenance

accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1

ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section

3. DEWATERING OF CONSTRUCTION AREAS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH NOTE 20 OF THE STANDARD EROSION CONTROL NOTES.

4. THE CONTRACTOR SHALL BERM OR CONSTRUCT A SECONDARY CONTAINMENT WHEN USING TEMPORARY\FUEL STORAGE TANKS ON SITE.

5. UTILITY WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH NOTE #22.

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

control practice must be used to intercept the discharge.

to facilitate cleanup. Stockpiles containing contaminated material must be covered with

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in

OWNER/DEVELOPER **EMILIA ACROGYMNASTICS** TRAINING CENTER, INC. 2721 MOORE'S VALLEY DR. BALTIMORE, MD 21209 PHONE: 410-381-7565

REVISION

DETAIL B-1

STABILIZED CONSTRUCTION

PROFILE

PLAN VIEW

PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLE

MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEE FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY, A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT NO ACCOUNTED AT A HIGH SPOT

PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND

TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS

SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

2011

SUPER SILT

ELEVATION

CROSS SECTION

INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.

FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (23/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE

FENCE

PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE

(WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

WOVEN SLIT FILM GEOTEXTILE-

DETAIL E-3

CONSTRUCTION SPECIFICATIONS

50 FT MIN.

LENGTH *

ENTRANCE

SCE

- EXISTING PAVEMENT

----SSF-----I

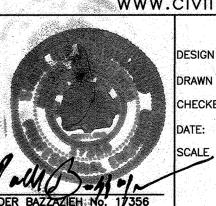
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS EMILIA SCHOOL

SITE DEVELOPMENT PLAN

9000 MAIER PLACE, LAUREL, MD 20723 TAX MAP 47 BLOCK 21 ZONED: CE-CL1 PARCEL 873 **6TH ELECTION DISTRICT** HOWARD COUNTY, MD

ENVIRODESIGN, INC

Civil-Environmental Engineering Services 5228 Pine Bark Ct, Columbia, MD 21045 Phone: 301-509-3803



WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL F MARYLAND, LICENCE NO. 17356 XPIRATION DATE: 5-21-2019

DATE

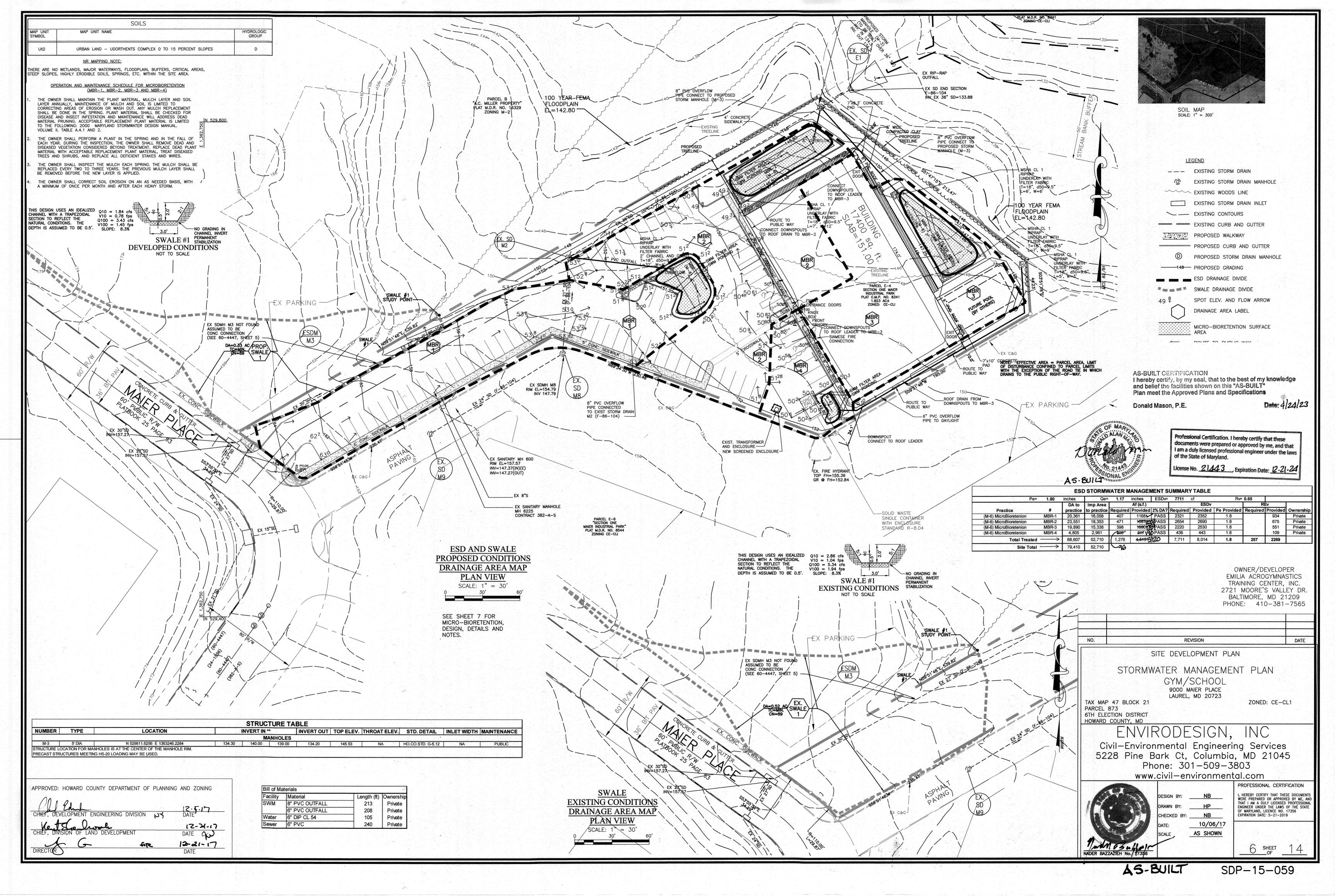
SDP-15-059

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10/06/17

AS-BUILT

AS SHOWN



B.4.C Specifications for Micro-Bioretention. Rain Gardens, Landscape Infiltration & **Infiltration Berms**

Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the microbioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. 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 planting soil shall be tested and shall meet the following criteria:

- Soil Component Loamy Sand or Sandy Loam (USDA Soil Textural Classification) • Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content Media shall have a clay content of less than 5%. • pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

Recommended plant material for micro-bioretention practices can be found in Appendix A Section A.2.3.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

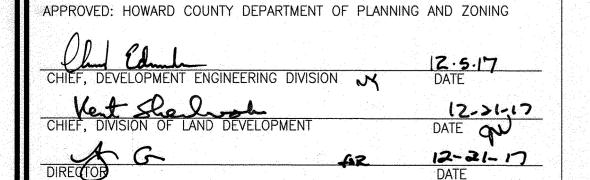
Underdrains

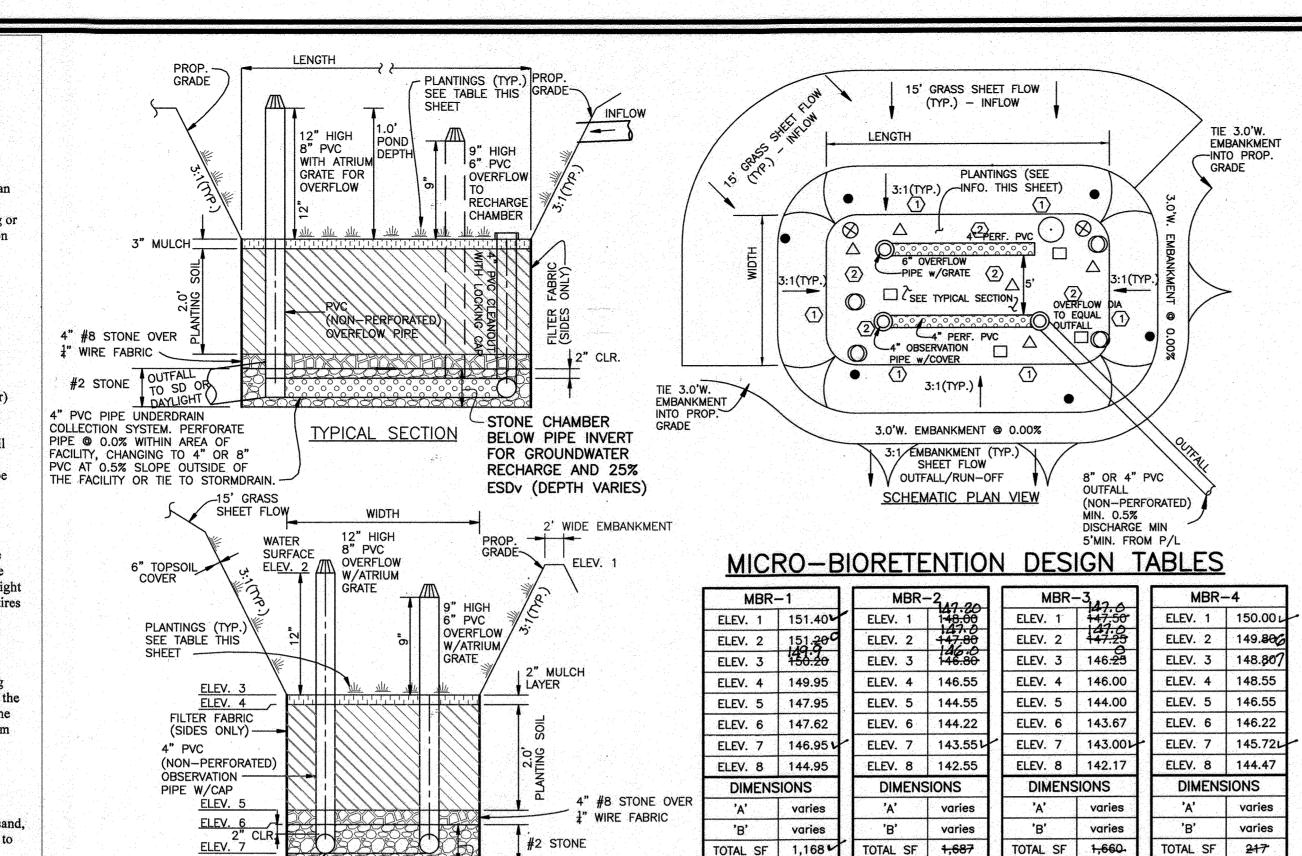
Underdrains should meet the following criteria:

- Pipe- Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTMF 758, Type PS 28, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g.,
- Perforations If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x4) galvanized hardware cloth.
- Gravel The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the
- The main collector pipe shall be at a minimum 0.5% slope.
- A rigid, non-perforated observation well must be provided (one per every 1,0000 square feet) to
- provide a clean-out port and monitor performance of the filter. A 4" layer of pea gravel (1/8" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

These practices may not be constructed until all contributing drainage area has been stabilized





STONE CHAMBER

BELOW PIPE INVERT

FOR GROUNDWATER

RECHARGE AND 25%

ESDv (DEPTH VARIES)

SEE SHEET 9 FOR LANDSCAPING OF MBR.

TYPICAL MICRO-BIORETENTION DETAILS

UNDERDRAIN, OVERFLOW AND OUTFALL NOTES

COLLECTION SYSTEM. PERFORATE TYPICAL PROFILE

1. THE LAST CLEAN-OUT LOCATION WITHIN EACH MICRO-BIORETENTION FACILITY SHALL BE FITTED WITH A NON-CLOGGING SURFACE DRAIN (EXAMPLE: 4" ABS ROOF DRAIN W/CAST ALUMINUM DOME) AT THE POND SURFACE ELEVATION INDICATED IN THE CORRESPONDING TABLE

2. THE PVC WITHIN THE FACILITY SHALL BE PERFORATED.

4" PVC PIPE UNDERDRAIN

PIPE @ 0.0% WITHIN AREA OF

FACILITY, CHANGING TO 4" OR 8"

PVC AT 0.5% SLOPE OUTSIDE OF

3. THE UNDER-DRAIN AND PIPE TO OUTFALL SHALL BE INSTALLED TO A MINIMUM DEPTH OF 2' BELOW FINISHED GRADE AND SHALL SEPARATION AT ALL CROSSINGS.

MICRO-BIORETENTION MBR-4

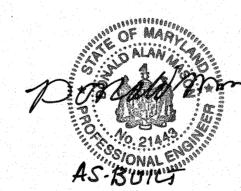
AS-BUILT CERTIFICATION I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on this "AS-BUILT" Plan meet the Approved Plans and Specifications

Donald Mason, P.E.

Date:4/24/23

MICRO-BIORETENTION MBR-3

1" - 10' H.T.S.

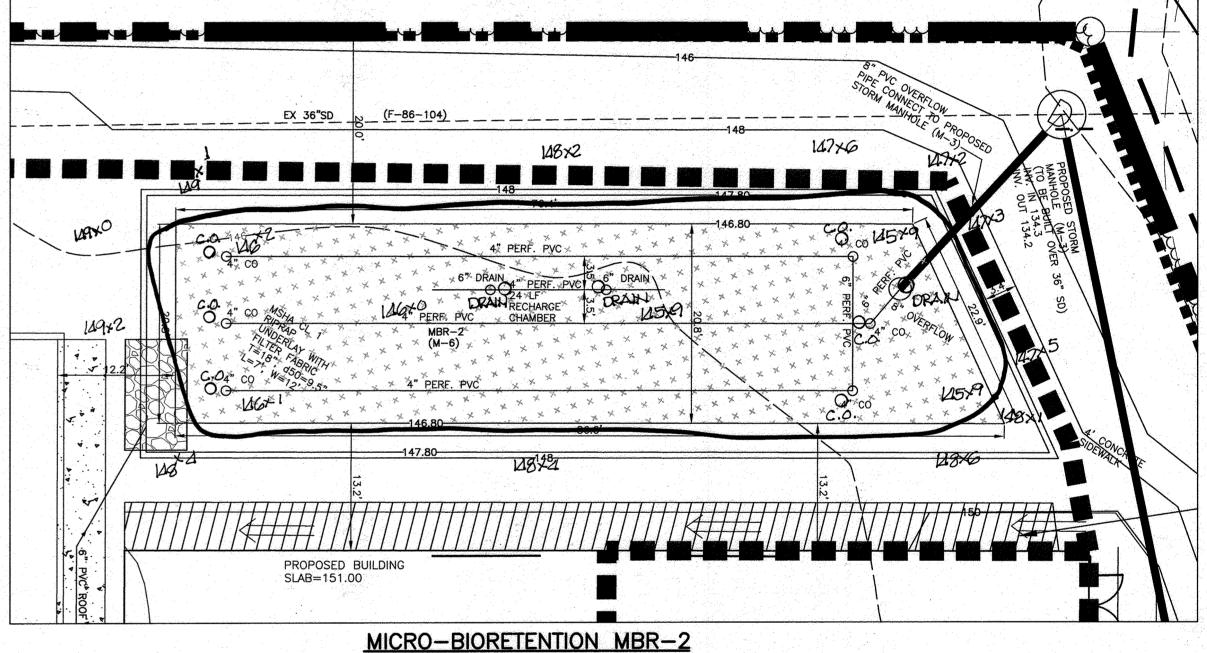


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duty licensed professional engineer under the laws of the State of Maryland.

License No. 21443 Expiration Date: 12-21-24

UNDERLAY WIT FILTER FABRIC 2' CHANNEY AND GROUT T=18", d50=9.5"

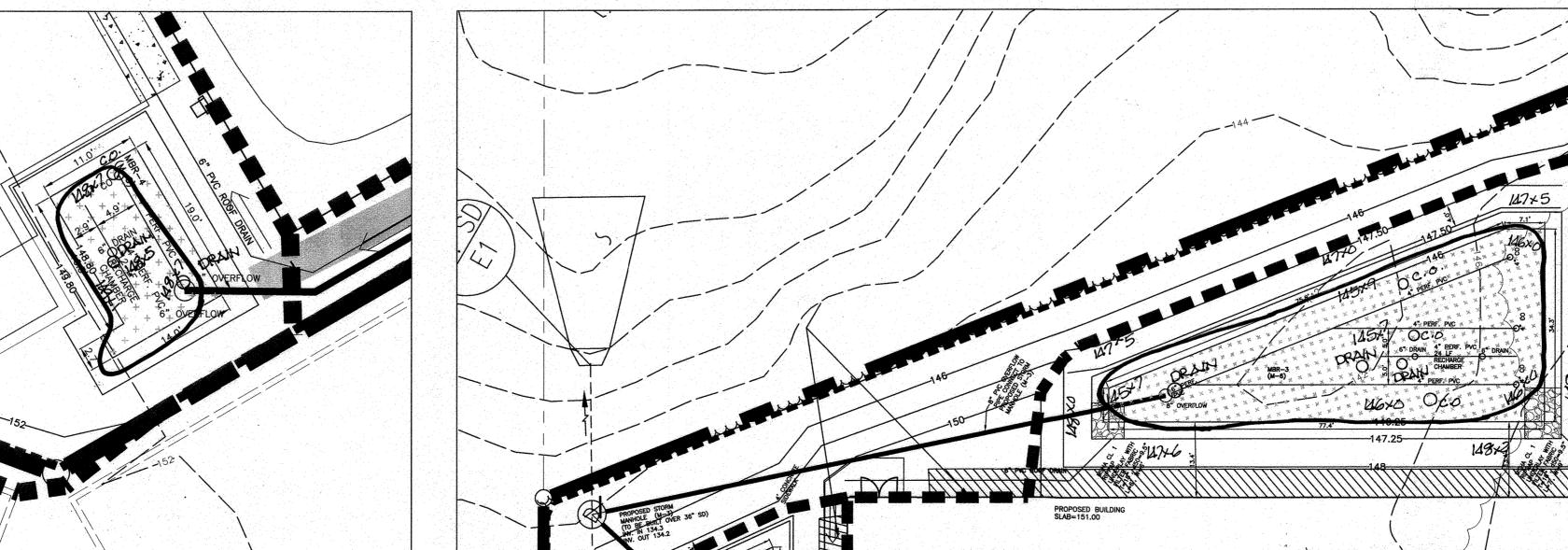
MICRO-BIORETENTION MBR-1



NO.

HOWARD COUNTY, MD

OWNER/DEVELOPER **EMILIA ACROGYMNASTICS** TRAINING CENTER, INC. 2721 MOORE'S VALLEY DR. BALTIMORE, MD 21209 PHONE: 410-381-7565

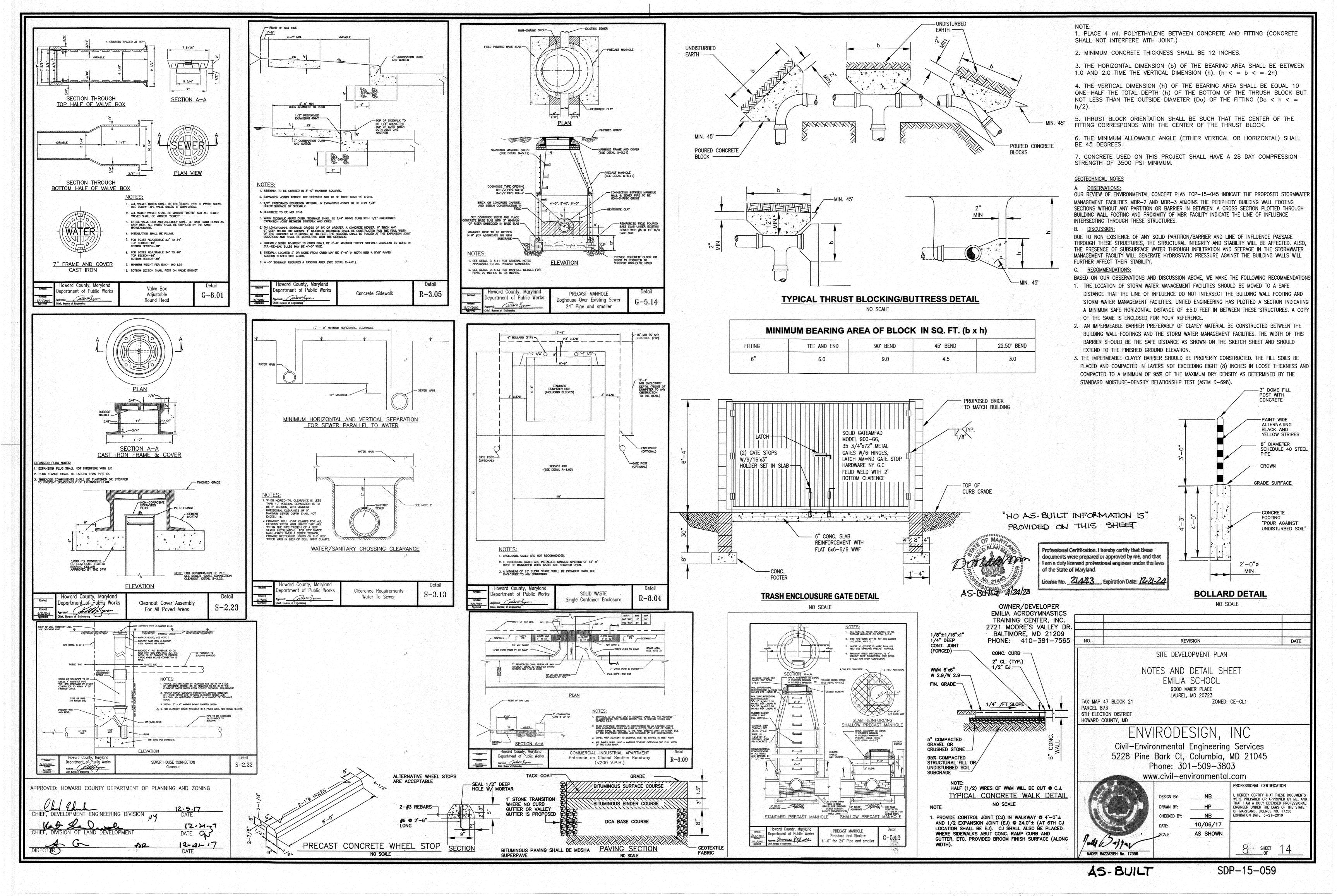


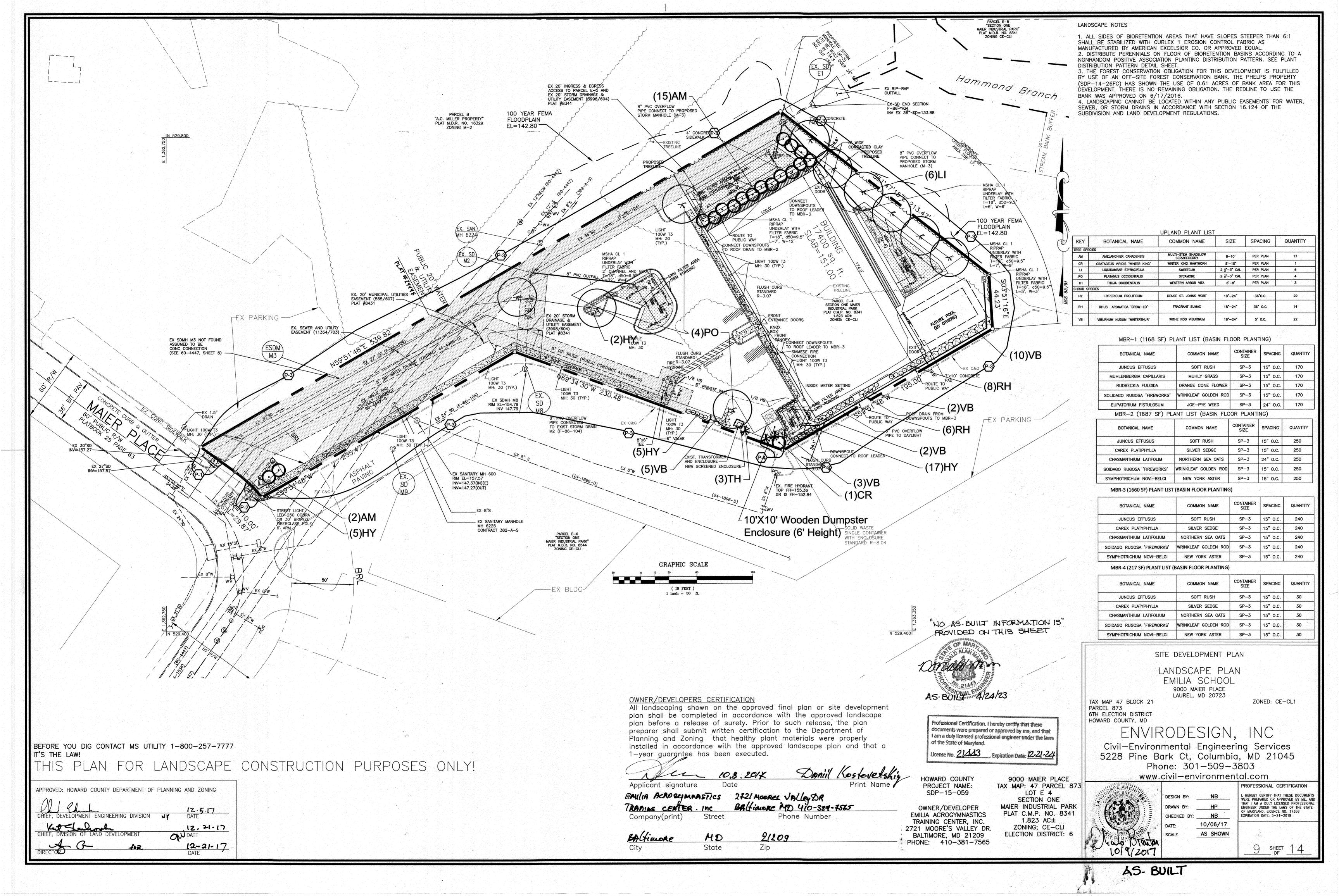
REVISION DATE SITE DEVELOPMENT PLAN STORMWATER MANAGEMENT PLAN, NOTES AND DETAILS GYM/SCHOOL 9000 MAIER PLACE LAUREL, MD 20723 TAX MAP 47 BLOCK 21 ZONED: CE-CL1 PARCEL 873 **6TH ELECTION DISTRICT**

ENVIRODESIGN, INC

Civil-Environmental Engineering Services 5228 Pine Bark Ct, Columbia, MD 21045 Phone: 301-509-3803 www.civil-environmental.com

PROFESSIONAL CERTIFICATION ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENCE NO. 17356 EXPIRATION DATE: 5-21-2019 10/6/17 AS SHOWN





SCHEDULE A PERIMETER LANDSCAPE EDGE ADJACENT TO TO ROADS PERIMETER PROPERTIES CATEGORY (P-4) LANDSCAPE TYPE B 1:50 shade E 1:40 shade 1:4 shrub E : 40 shade 1:60 shade LINEAR FEET OF ROADWAY 22 LF 18 LF 1458 LF 22 LF TOTALS CREDIT FOR EXISTING VEGETATION YES* 258 LF (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) CREDIT FOR WALL, FENCE OR BERM NO YES** 22 LF (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) 1200 LF 0 LF NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTE SHRUBS IUMBER OF PLANTS PROVIDED SHADE TREES 1**** 2**** EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTE

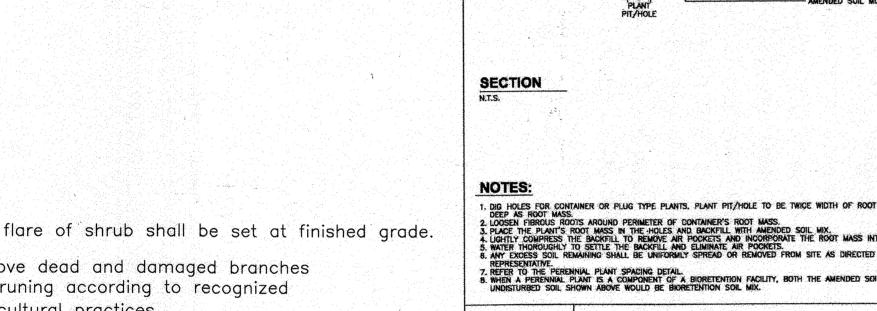
* CREDIT TAKEN IS FOR RETENTION OF EXISTING VEGETATION, LAND ADJACENT IS FLOODPLAIN.
** CREDIT TAKEN IS FOR WALL AROUND DUMPSTER.
*** SUBSTITUTIONS OF 10:1 FOR SHRUB, 2:1 FOR EVERGREEN AND 2:1 FOR SMALL TREES IS PROPOSED PER SHADE TREE.

**** P-1 EVERGREEN TREE IS PROVIDED NEAR THE EXISTING TRANSFORMER, P-1 SMALL TREE SUBSTITUTION IS PROVIDED IN P-3, NEAR THE INFLOW TO MBR #2.

SCHEDULE B PARKING LOT INTERNAL LANDSCAF	PING
NUMBER OF PARKING SPACES	72
NUMBER OF LANDSCAPE ISLANDS REQUIRE	D 4
NUMBER OF LANDSCAPE ISLANDS PROVIDE) 4
NUMBER OF SHADE TREES REQUIRED	4
NUMBER OF SHADE TREES PROVIDED	4

SHRUBS (10:1 SUBSTITUTE)

Kent Shenlinde



Philadelphia

UNDISTURBED SOIL
OR BIO-RETENTION -CONTAINER OR PLUG TYPE
PERENNIALS (FORBS, ORNAMENTAL
GRASSES OR GRASS-LIKE PLANTS) 1. DIG HOLES FOR CONTAINER OR PLUG TYPE PLANTS, PLANT PIT/HOLE TO BE TWICE WIDTH OF ROOT MASS AND AS

PERENNIAL PLANTING

DATE: 2/04/2013 SHEET NO: 54

PAGE NO: 4 OF 5 PLA - 4

SHRUB PLANTING DETAIL

Not to Scale

Typical Forest Tree Distribution Patterns

SPECIES 1 SPECIES 2

Note:
Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species groups. The objective of an afforestation/reforestation plar is to select the appropriate species and distribution pattern for a chose site that mimic natural

99 ** 99 ** 99 **

Figure 3.8.2

Note: When used, plant cluster type groupings the taper or feather out along the edges. Clusters often appear as elongated or tead drop shapes.

Locate larger trees (B&B or container grown) or transplant stock at the perimeter of reforestation/afforestation plantings of whips, seedling grown stock.

* 0 *

Aggregate Distribution Drift

Mixing Transplant Stock

Planting Distribution Patterns

---- Protective Fencing

*& Smaller Stock

GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL 2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$5,610.00 FOR 6 SHADE TREES, 3 EVERGREEN TREES, 18 ORNAMENTAL TREES, 22 LF OF WALL AND 65 SHRUBS. IT IS TO BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THIS SDP-15-059.

3. THE OWNER, TENANTS, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING PLANTING MATERIALS AND BEAMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION. AND WHEN NECESSARY REPAIRED OR REPLACED.

4. AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREE LISTED AND APPROVED ON THE LANDSCAPE PLAN SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH WITH THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN THE DENIAL OR DELAY IN THE RELEASE OF THE LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.

5. LANDSCAPING CANNOT BE LOCATED WITHIN ANY PUBLIC FASEMENTS FOR WATER, SEWER, OR STORM DRAINS IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

SPECIFICATION FOR PLANTING OF HERBACIOUS MATERIALS

1. For all bed areas, remove any existing sod or other vegetation growth from the bed areas. Add additional topsoil, if required, to re-establish grade. Uniformly spread approved compost material to an 80 mID (3-inch) depth, and thoroughly incorporate it into the soil to a depth of 150 mm (6 inches). Remove and dispose of undesirable material larger than 50 mm (2) inches) in any dimension as directed. NO TILLING OR HERBICIDE APPLICATION SHALL BE PERMITTED WITHIN CRITICAL ROOT ZONE OF EXISTING TREES AND SHRUBS 2. Dia planting pits through mulch with hand trowel or

3. Before planting, biodegradable pots shall be split, and non-bioodegradable pots removed.

4. Herbacious materials shall be planted:

a. So that the roots of the plants shall be surrounded by soil below the mulch. The plants shall be set so that the top of the root system is level with the finished ground surface.

b. at an equal distance apart as specified on the plant schedule.

5. Place 2 inches shredded hardwood bark mulch after

6. The entire perennial bed shall be edged.

Root flare of shrub shall be set at finished grade.

Existina Subarade

7. Water entire bed thoroughly at the completion of each day of work.

Landscape Notes

1. Plants and plant material shall meet the detailed description as given on the plans and as described herein.

2. All plant material, unless otherwise specified, shall be nursery grown, of good average, uniformly branched and have a vigorous root system. They shall be healthy, vigorous plants free from defects, decay, disfiguring roots sunscald injuries, abrasions of the bark, plant disease, insect pest eggs, boxpropers and all forms of infestations or objectionable disfigurements. Plant materials that are weak or which have been cut back from larger grades to meet certain specified requirements will be rejected. All plants shall be freshly dug: no heeled in plants or plants from cold storage will be accepted.

3. All plant characteristics including, but not limited to; ball diameter, caliper and height measurements, shall be in accordance with the current edition of the "U.S.A". Standard for Nursery Stock", as recommended by the American Assoc. of Nurserymen, Inc.

4. All trees shall be symmetrically balanced according to their normal habit of growth. No forked leader stock will be accepted.

5. Planting shall be performed in the period beginning March 15 and ending December 15.

6. All planting furnished under this contract shall be guaranteed to remain viable and to thrive in a healthy condition for a period of one (1) year. Trees that are not thriving satisfactorily, as deter- mined by the Landscape Architect, within said one year period shall be replaced by the Contractor at his sole expense. All plant materials shall be planted in accordance with the plans and specifications for the original plantings. Replacement shall include the cost of tearing up and replacing that portion of sidewalk or paving, if any, required for tree replacement, all at the Contractor's sole expense. All replacement plants shall be guaranteed for a minimum period of one (1) year.

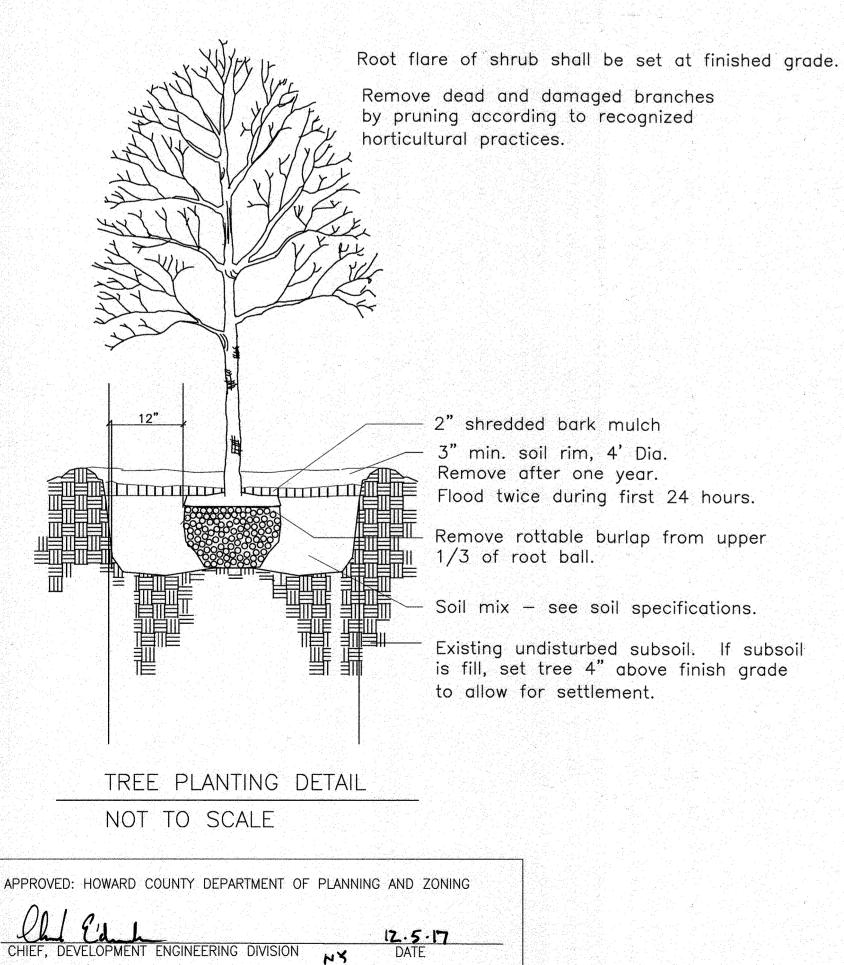
7. The Contractor shall notify all utility companies five (5) days prior to beginning work

8. Location of plant materials may be adjusted in the field to account for tree roots and other obstructions.

9. Any damage to the existing utilities, buildings, paving, curb, walls and vegetation (not so designated for removal on these plans) shall be repaired to previous condition or replaced by the Contractor at his expense.

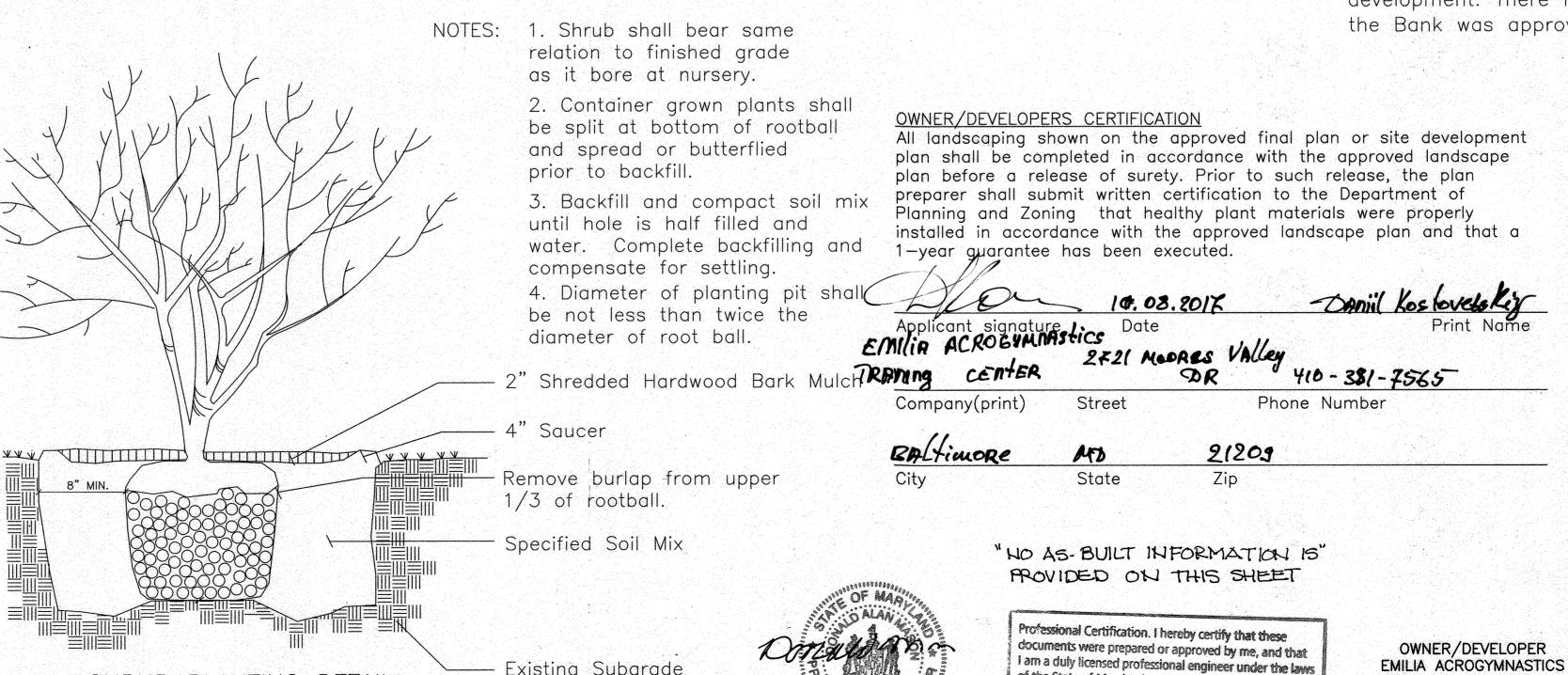
10. All planting beds shall have two (2) inches of shredded hardwood bark mulch placed on top of top soil.

11. The forest conservation obligation for this development is fulfilled by use of an off-site forest conservation bank. The Phelps Property (SDP-14-26FC) has shown the use of 0.61 acres of Bank area for this development. There is no remaining obligation. The redline for use of the Bank was approved on 6/17/2016.



12-21-17 DATE 9W

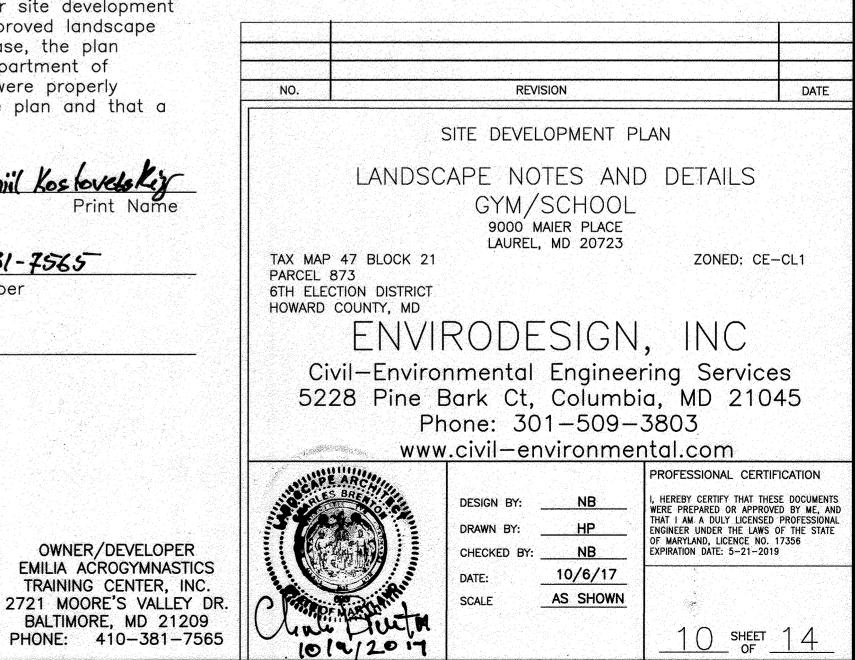
122417



AS-BUILT 123

of the State of Maryland:

License No. 21443 Expiration Date: 12-21-24



EMILIA ACROGYMNASTICS

TRAINING CENTER, INC.

DATE

