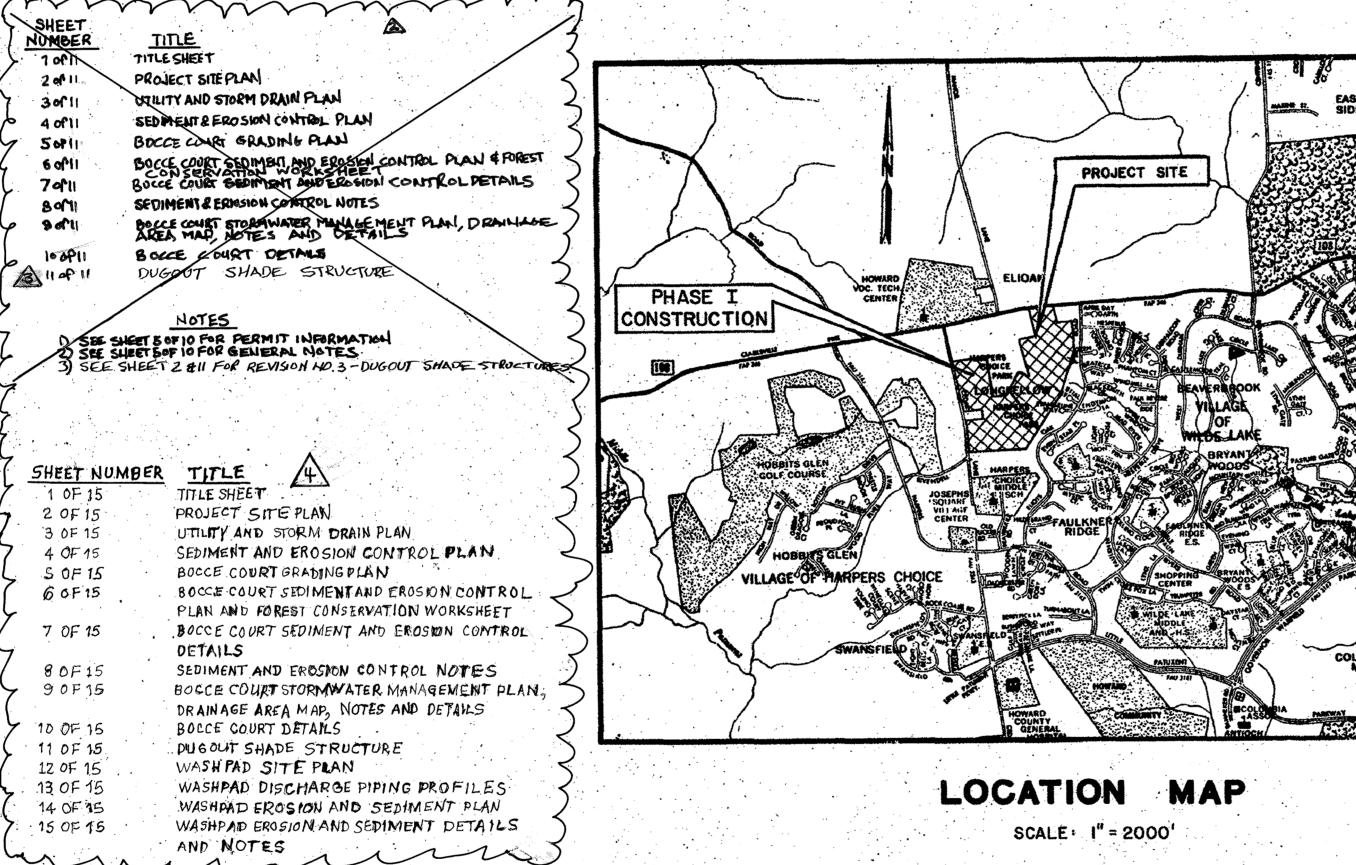
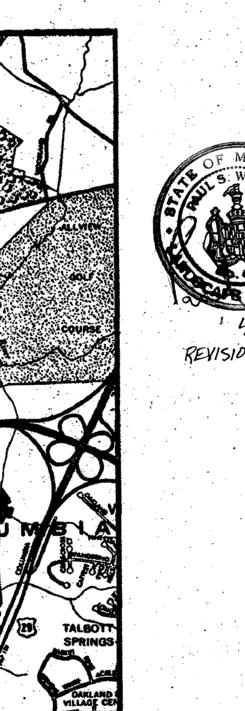




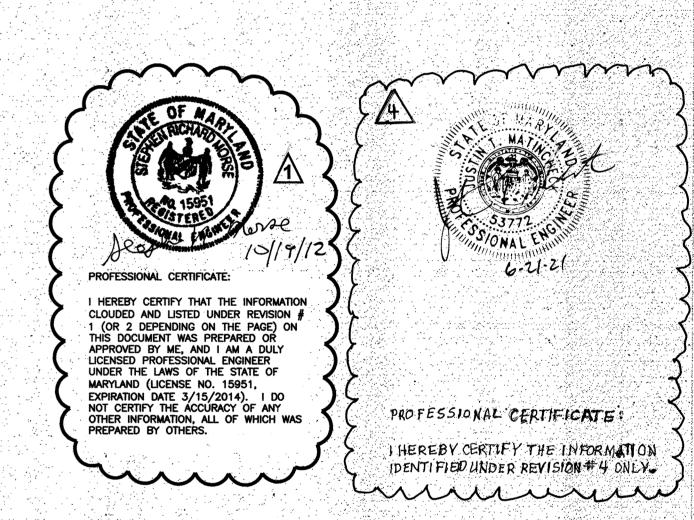
# HOWARD COUNTY MARYLAND DEPARTMENT OF PUBLIC WORKS FOR DEPARTMENT OF RECREATION AND PARKS





CEDAR LANE PARK

MARYLAND ROUTE 108 AND CEDAR LANE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND

DIRECTOR DATE CHIEF, BUREAU OF ENGINEERS

STORM DRAINAGE SYSTEMS AND ROADS

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

HOWARD COUNTY . MARYLAND

(6100 mingood 2-5-83

THIS SHEET'S INDEX WAS MODIFIED TO INCLUDE THE

WASHPAD FACILITIES DESIGN INFORMATION. REFER TO THE

CEDAR LANE PARK FACILITIES WASHPADDESIGN PACKAGE, CAPITAL PROJECT CO313 DATED JANUARY 2020.

COUNTY OFFICE OF PLANNING AND ZONING

2-22-8

3-3-83

DATE

HOWARD COUNTY HEALTH DEPARTMENT

THIS SHEET WAS MODIFIED TO INCLUDE THE RAINWATER HARVESTING FACILITIES DESIGN INFORMATION. REFER TO THE FULL RAINWATER HARVESTING PARKS FACILITIES DESIGN PACKAGE, CAPITAL PROJECT C-0313, DATED DECEMBER 2011

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
ROWARD COUNTY, MARYLAND

DATE 11-9-82

Aum.

4 NOTE:

THE LOD OF 4,792 SFT IS EXEMPT FROM PROVIDING
STORMWATER MANAGEMENT. ANY FUTURE REVISIONS WHERE
THE CUMULATIVE DISTURBANCE EXCEEDS 5,000 SFT THEN
STORMWATER MANAGEMENT WILL BE PROVIDED.

CAPITAL PROJECT N-4-3028

BY NO. REVISION DATE

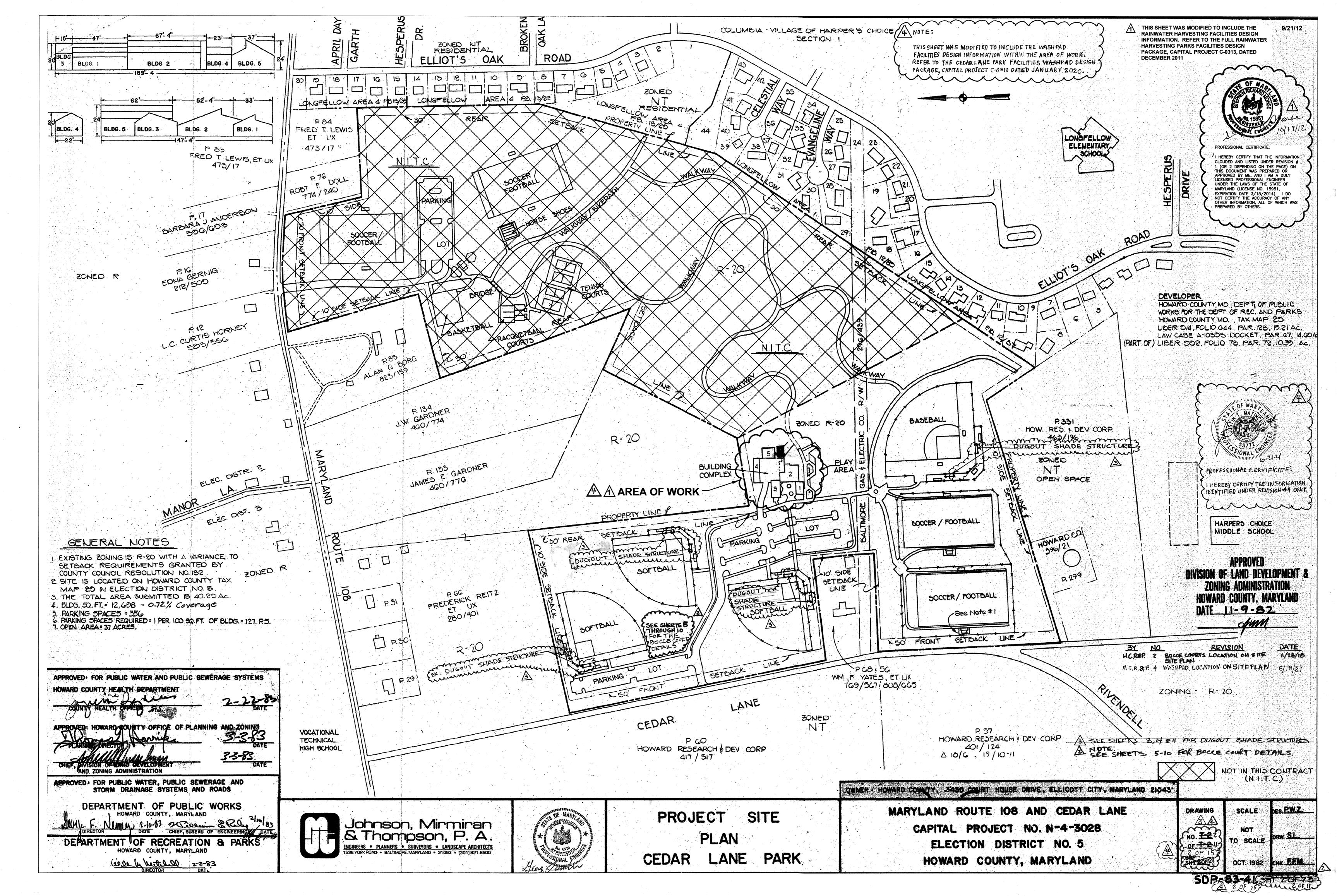
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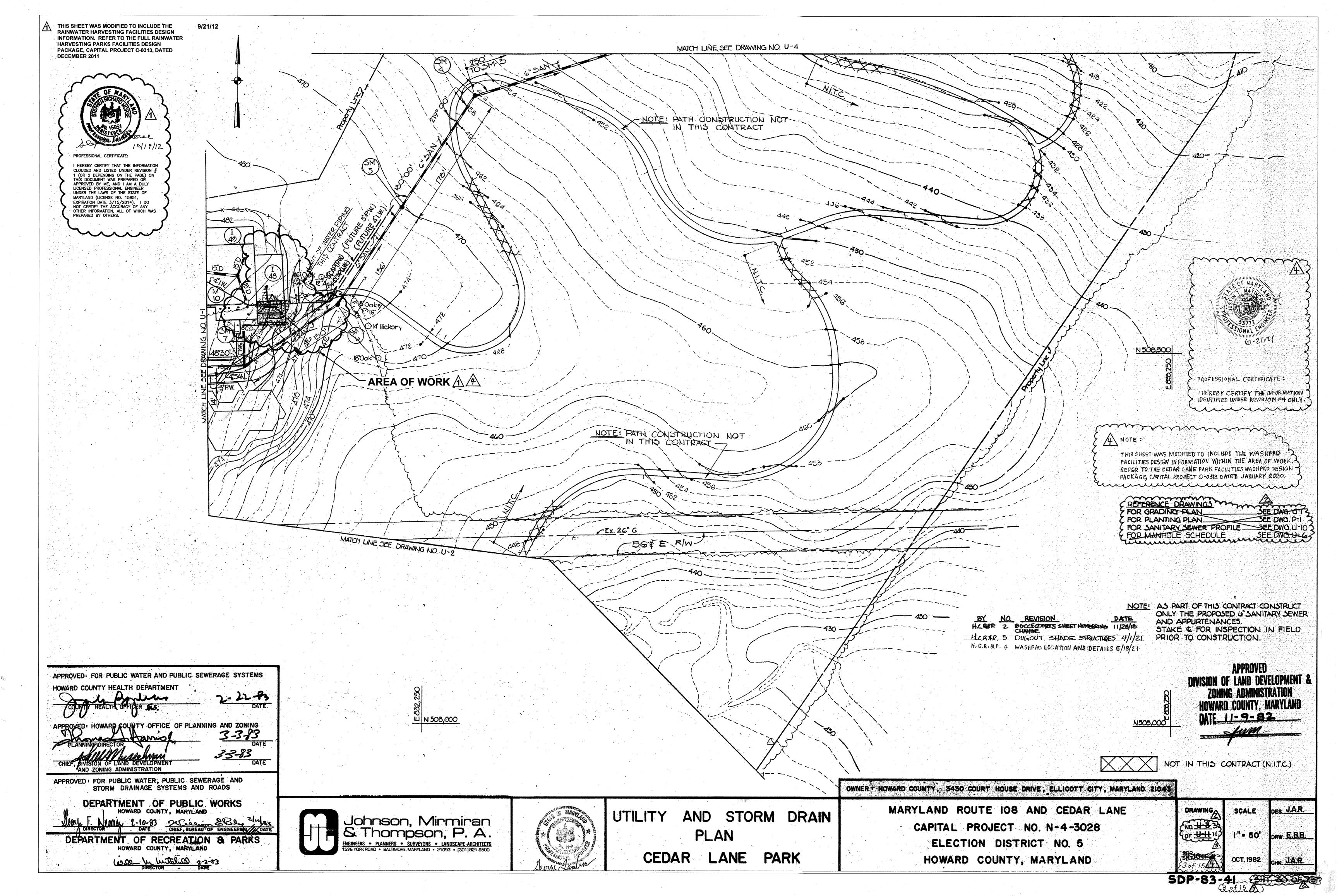
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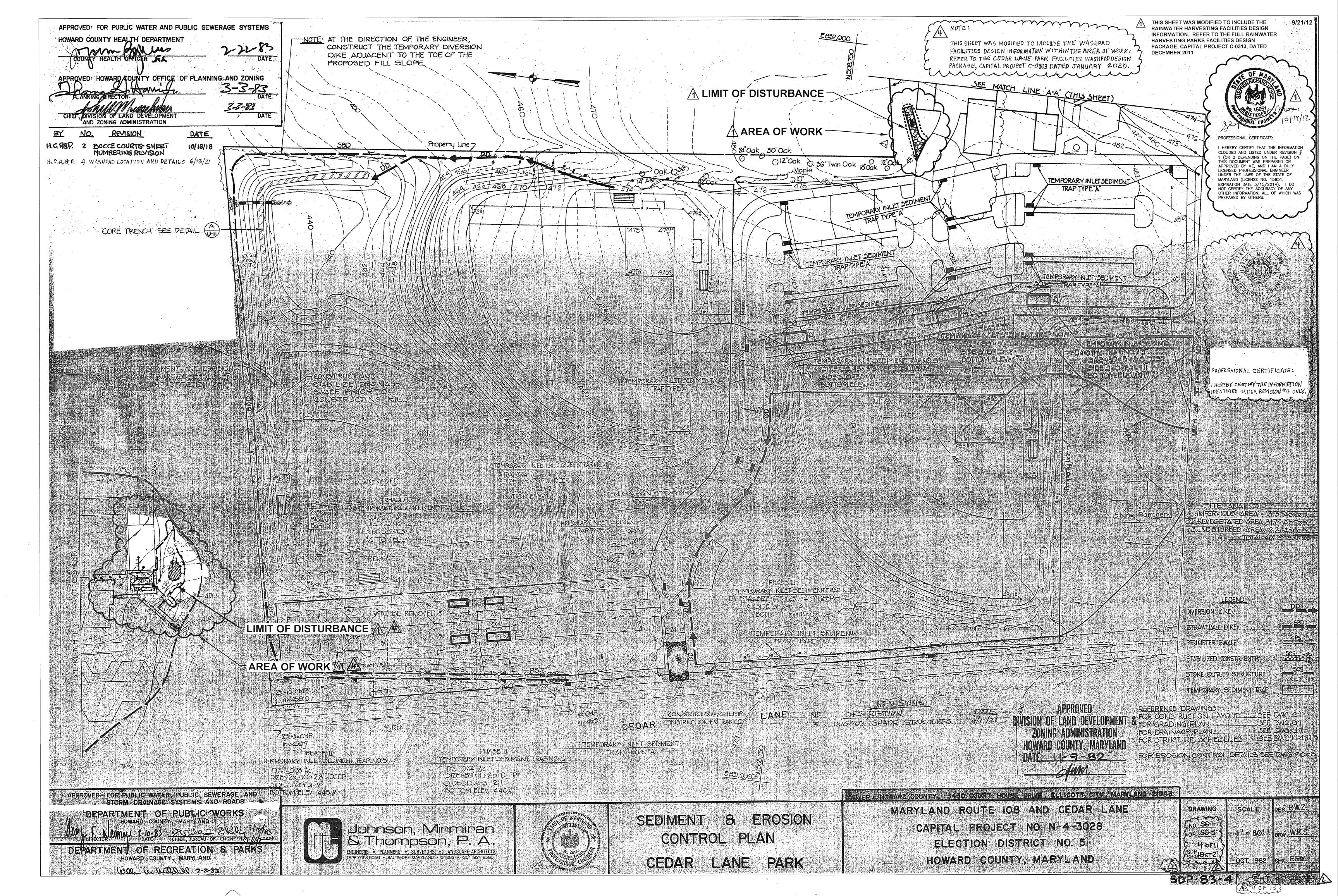
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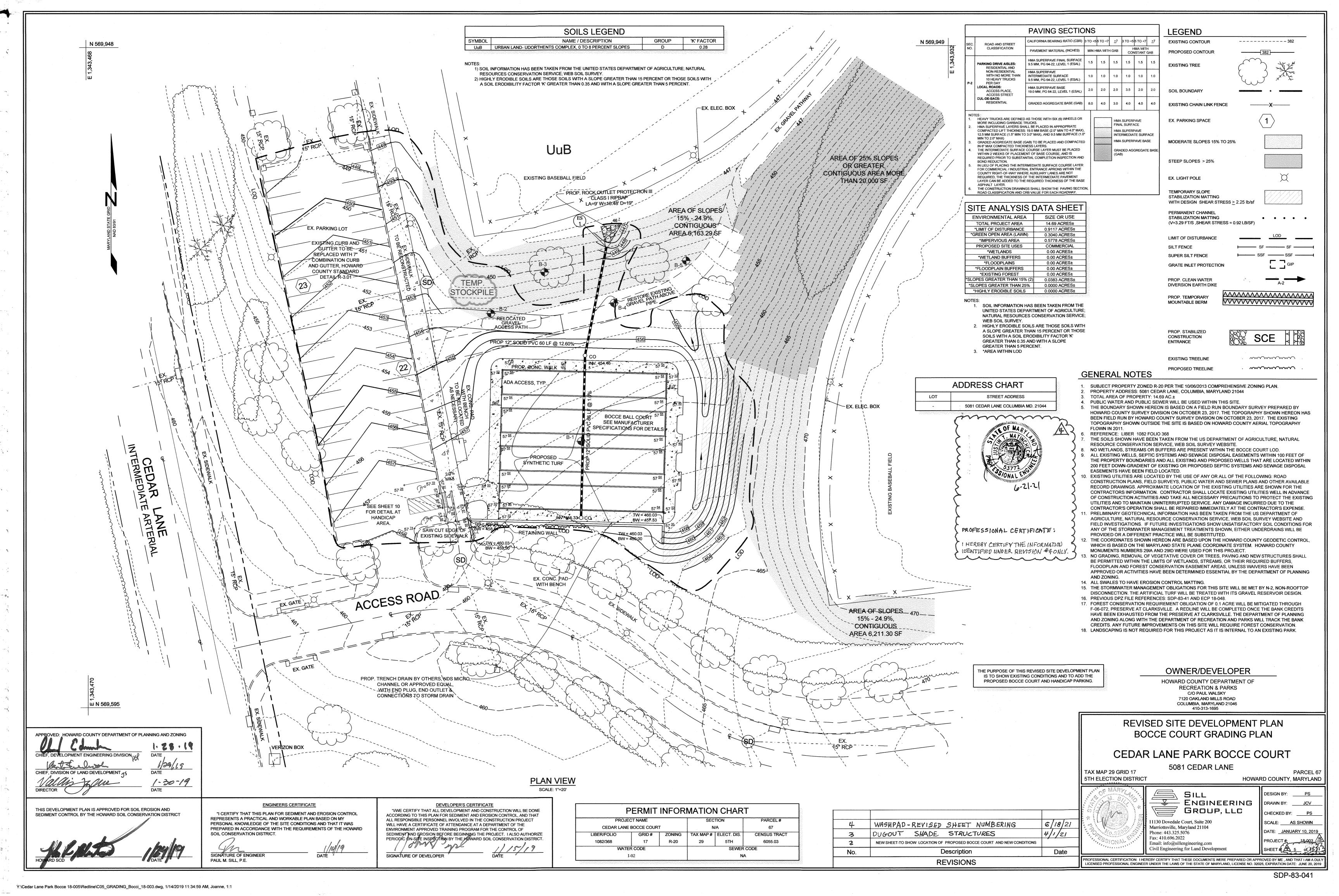
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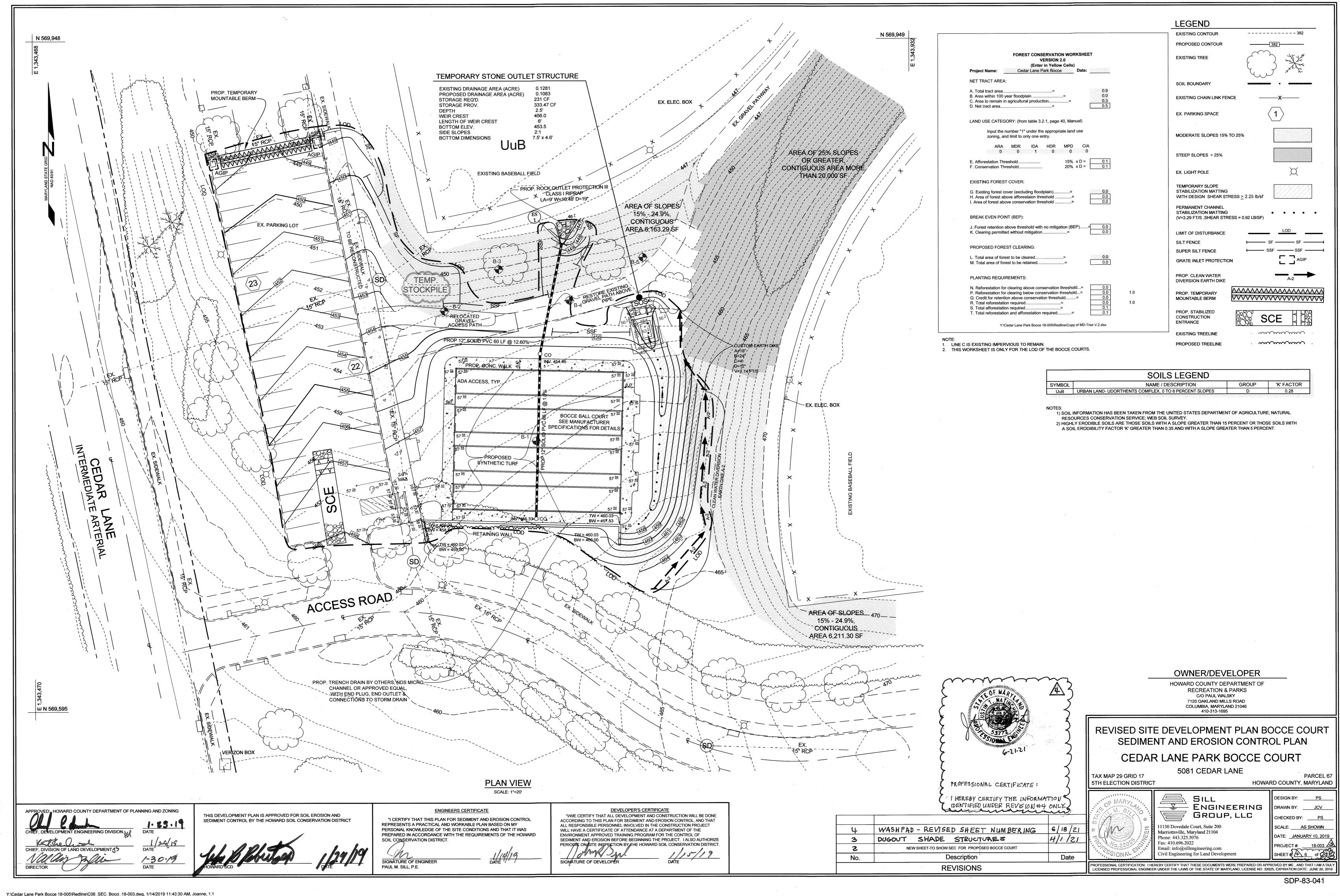
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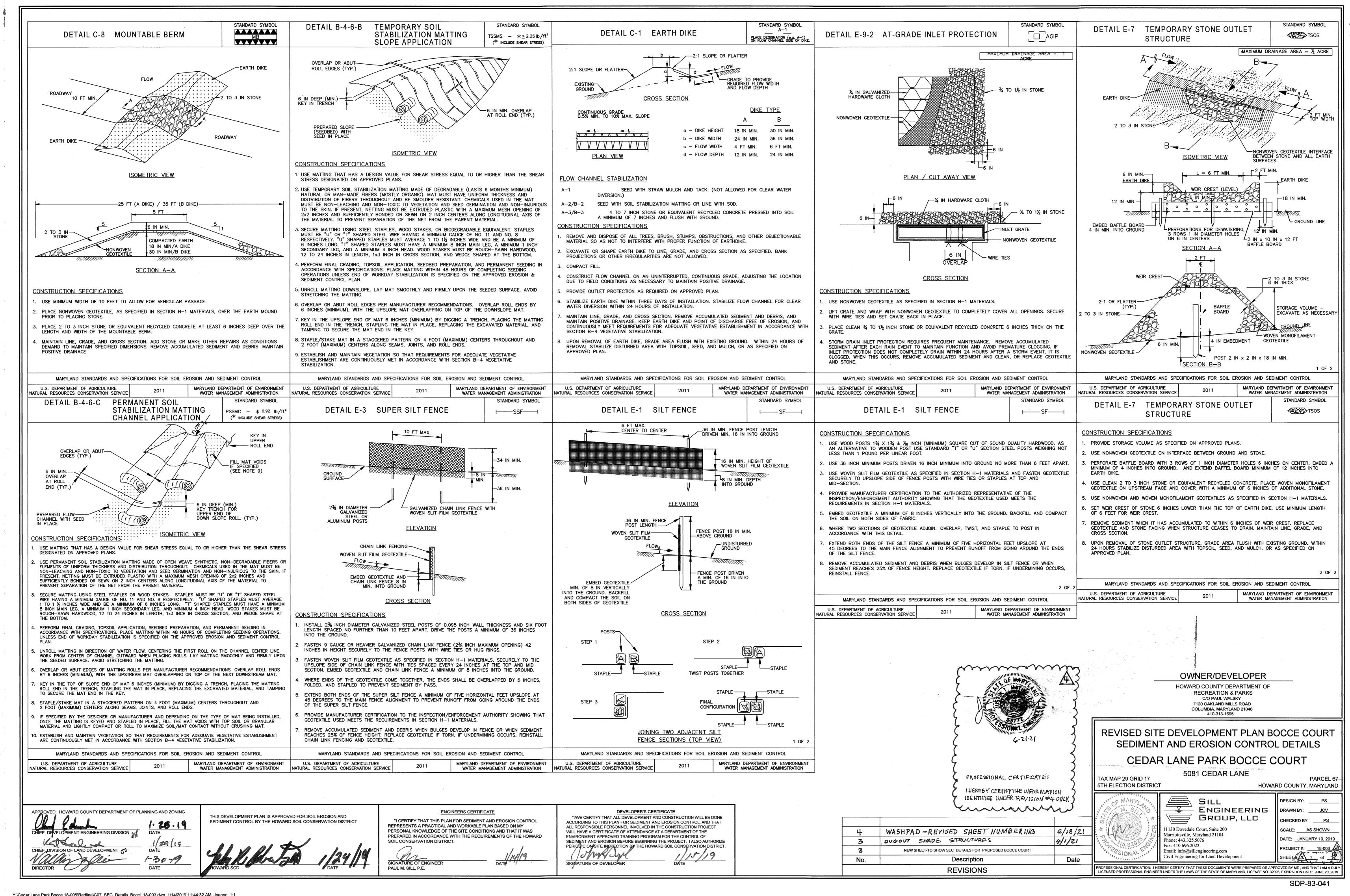












A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOURS NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING

A: PRIOR TO THE START OF EARTH DISTURBANCE

 B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. • C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.

 D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.

ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL; AND REVISIONS THERETO. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS

REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED IN ACCORDANCE WITH THE 201

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH > 15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).

5. 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 CID.

6. SITE ANALYSIS:

TOTAL AREA AREA DISTURBED AREA TO BE ROOFED OR PAVED: AREA TO BE VEGETATIVELY STABILIZED: TOTAL CUT: TOTAL FIL OFFSITE WASTE/BORROW AREA LOCATION:

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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:

INSPECTION DATE

 INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT) NAME AND TITLE OF INSPECTOR

WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED

 BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES EVIDENCE OF SEDIMENT DISCHARGES IDENTIFICATION OF PLAN DEFICIENCIES

IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE

 IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS • COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS

 PHOTOGRAPHS MONITORING/SAMPLING

MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED

 OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPES LENGTHS OR THAT WHICH CAN AND SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY BE ALLOWED BY THE

CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE HSCD. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME. 12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A

SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE. 13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE. 14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM

INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION. 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):

 USE I AND IP MARCH 1 - JUNE 15 USE III AND IIIP OCTOBER 1 - APRIL 30 USE IV MARCH 1 - MAY 31

APPROVED AND ACTIVE GRADING PERMIT.

16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE

EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

 A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES

 TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS. CONDITIONS WHERE PRACTICE APPLIES

STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER

CRITERIA:

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.

ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. 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 CONCENTRATED FLOW IN A NON-EROSIVE MANNER WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL. AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY

STABILIZATION IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN 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 B-3 LAND GRADING.

STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES: EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), 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 PLAN AND COMPLETED. THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.

FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON. APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION 8-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING STANDARD STABILIZATION NOTE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES. SWALES.

STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

SHOWN IN THE PERMANENT SEEDING SUMMARY

SUN TO MEDIUM SHADE

BI ENDED

HARDINESS ZONES: 7A, 7B)

TO 4 INCHES, LEVEL

POSE NO DIFFICULTY

1. GENERAL SPECIFICATIONS

ACCEPTABLE

2. SOD INSTALLATION

3 SOD MAINTENANCE

TO IT AND TIGHTLY

GROWTH AND STRENGTH

WEIGHT AND RETAIN THEIR

PERCENT OF THE SECTION.

SCIENTIST PRIOR TO ITS INSTALLATION

PREVENT SLIPPAGE ON SLOPES. ENSURE

ADEQUATE MOISTURE CONTENT.

GRASSES WILL

WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT

SEEDING RATE: 11/2 TO 3 POUNDS PER 1000 SQUARE FEET.

PROTECTION AND ASSURES A PURE GENETIC LINE

C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES:

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER

A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE

HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE

B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES,

FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA

D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2

1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE

PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE

I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE

INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL

MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS

MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10

CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER

1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS

PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL

RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100

PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING

RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE

SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY

CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT.

"TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED

THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE,

MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY.

IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH

MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS

NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST

CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77.

TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER

WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)

D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2

AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER

DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF

E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT

GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE

FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE

PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE

B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4

INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP

C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN

SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10

D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY

NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL

E SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS, SOD

A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL.

B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL

WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM

ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED

TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO

D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF

THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE

THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT

OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES.

MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS

**ENGINEERS CERTIFICATE** 

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD

REPRESENTS A PRACTICAL AND WORKARLE PLAN BASED ON MY

SOIL CONSERVATION DISTRICT.

PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS

C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND

SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.

A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS

C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/2 OF THE GRASS LEAF

B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN

WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.

HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE

CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)

SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15

CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A

II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN

AREAS WHERE B.22 RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL

RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS

WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES

DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION

ON DISTURBED SOILS.

GENERAL USE

CRITERIA

A. SEED MIXTURES

CONDITIONS WHERE PRACTICE APPLIES

APPROPRIATE PLANT

PERMANENT SEEDING

RECOMMENDED BY THE SOIL

FOUND ON TABLE

TESTING AGENCY

SOIL AMENDMENTS

2. TURFGRASS MIXTURES

COMMERCIAL SITES

CONDITIONS OR

DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE

PROJECT SITE NOT UNDER ACTIVE GRADING. DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

 TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. CONDITIONS WHERE PRACTICE APPLIES • WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

2. PERMANENT STABILIZATION

A. SOIL PREPARATION 1. TEMPORARY STABILIZATION

a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES 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 MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION, SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS

a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: I SOIL PH BETWEEN 6.0 AND 7.0. II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM)

III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED. THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT

V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET

GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5

APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.

MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE, LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH, SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH. MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS, TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS. 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

a. 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

THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL

SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 11/2 INCHES IN DIAMETER. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS. QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS

TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL. 6. TOPSOIL APPLICATION

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A

MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT TH FORMATION OF DEPRESSIONS OR WATER POCKETS. TOPSOIL MUST NOT BE PLACED IF 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. C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES

FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES. 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR

ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD

DEVELOPER'S CERTIFICATE

ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT

SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE

PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT

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

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

SEEDING | RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE PLANT SPECIES 7a & 7b LB/AC LB/1000 FT<sup>2</sup> (INCHES) 5b & 6a COOL-SEASON GRASSES ANNUAL RYEGRASS MARCH 15 TO MAY 31: MARCH 1 TO MAY 15 1.0 (LOLIUM PERENNE SSP. MULTIFLORUM) **FEB 15 TO APR 30** MARCH 15 TO MAY 31 MARCH 1 TO MAY 15 BARLEY (HORDEUM VULGARE 2.2 1.0 AUG 1 TO SEP 30 AUG 15 TO NOV 30 AUG 1 TO OCT 1 **FEB 15 TO APR 30** MARCH 15 TO MAY 31 MARCH 1 TO MAY 15 OATS (AVENA SATIVA) 1.7 1.0 AUG 1 TO SEP 30 AUG 15 TO NOV 30 AUG 1 TO OCT 1 MARCH 15 TO MAY 31 MARCH 1 TO MAY 1 FEB 15 TO APR 30 WHEAT (TRITICUM AESTIVUM 120 2.8 1.0 AUG 1 TO SEP 30 AUG 1 TO OCT 1 AUG 15 TO NOV 30 FEB 15 TO APR 30 MARCH 15 TO MAY 31 MARCH 1 TO MAY 15 CEREAL RYE (SECALE CEREALE) 2.8 112 1.0 AUG 1 TO NOV 15 AUG 1 TO OCT 31 AUG 15 TO DEC 15 FOXTAIL MILLET (SETARIA ITALICA) 0.7 0.5 JUN 1 TO JUL 31 MAY 16 TO JUL 31 MAY 1 TO AUG 14 30 PEARL MILLET (PENNISETUM GLAUCUM) 20 0.5 MAY 1 TO AUG 14 0.5 JUN 1 TO JUL 31 MAY 16 TO JUL 31

ESTABLISHMENT.

1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS), ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED. ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL-SEASON GRASSES. SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE. WHEN PLANTED AS A NURSE CROP WITH PERMANENT SEED MIXES, USE 1/3 OF THE SEEDING RATE LISTED ABOVE FOR BARLEY, OATS, AND WHEAT. FOR SMALLER-SEEDED GRASSES (ANNUAL RYEGRASS, PEARL MILLET, FOXTAIL MILLET), DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX. CEREAL RYE GENERALLY SHOULD NOT BE USED AS A NURSE CROP, LINESS PLANTING WILL OCCUR IN VERY LATE FALL BEYOND THE SEEDING DATES FOR OTHER TEMPORARY SEEDINGS CEREAL RYE HAS ALLELOPATHIC PROPERTIES THAT INHIBIT THE GERMINATION AND GROWTH OF OTHER PLANTS. IF IT MUST BE USED AS A NURSE CROP, SEED AT 1/3 OF THE RATE LISTED ABOVE. OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES.

FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE. 3. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONE

PROFESSIONAL CERTIFICATE: I HEREBY CERTIFY THE INFORMATION

IDENTIFIED UNDER REVISION # 4 ONLY

OWNER/DEVELOPER HOWARD COUNTY DEPARTMENT OF

RECREATION & PARKS C/O PAUL WALSKY 7120 OAKLAND MILLS ROAD COLUMBIA, MARYLAND 21046 410-313-1695

REVISED SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL NOTES

CEDAR LANE PARK BOCCE COURT

5081 CEDAR LANE TAX MAP 29 GRID 17 **5TH ELECTION DISTRICT** 

Phone: 443.325.5076

ENGINEERING GROUP, LLC Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development

PROJECT#

OFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DU ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2019

Y:\Cedar Lane Park Bocce 18-005\Redline\C08\_SEC\_Notes\_Bocci\_18-003.dwg, 1/14/2019 11:47:07 AM, Joanne, 1:1

1/29/19

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

REMOVE EXISTING SIDEWALK AND GUTTER AS SHOWN ON PLANS, AND REPLACE WITH NEW CURB AND BASE GRADE PARKING LOT AS SHOWN ON PLANS. (1WEEK)

TABLE B.5: RECOMMENDED PLANTING DATES FOR PERMANENT COVER IN MARYLAND

5b & 6a

**MAR 15 TO MAY 31** 

AUG 1 TO SEP 30

MAR 15 TO MAY 31++

JUN 1 TO JUN 15\*

MAR 15 TO MAY 31

JUN 1 TO AUG 31

SEP 1 TO NOV 11

MARCH 15 TO MAY

JUN 1 TO JUN 30\*

JUN 1 TO JUN 30\*

SEP 1 TO NOV 15

1. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE. THESE DATES MAY REQUIRE ADJUSTMENT TO

REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONES. WHEN SEEDING TOWARD THE

END OF THE LISTED PLANTING DATES, OR WHEN CONDITIONS ARE EXPECTED TO BE LESS THAN OPTIMAL, SELECT

AN APPROPRIATE NURSE CROP FROM TABLE B.1 TEMPORARY SEEDING FOR SITE STABILIZATION AND PLANT

2. WHEN PLANTED DURING THE GROWING SEASON, MOST OF THESE MATERIALS MUST BE PURCHASED AND KEPT IN

TEMPERATURE TRENDS. RECOMMEND ADDING A NURSE CROP, AS NOTED ABOVE, IF PLANTING DURING THIS

◆◆ WARM-SEASON GRASSES NEED A SOIL TEMPERATURE OF AT LEAST 50 DEGREES F IN ORDER TO GERMINATE. IF

A PLANTING DATE. CONSIDER THE NEED FOR WEED CONTROL VS. THE LIKELIHOOD OF HAVING SUFFICIENT

\* ADDITIONAL PLANTING DATES DURING WHICH SUPPLEMENTAL WATERING MAY BE NEEDED TO ENSURE PLANT

FREQUENT FREEZING AND THAWING OF WET SOILS MAY RESULT IN FROST-HEAVING OF MATERIALS PLANTED IN

BECOME SUFFICIENTLY ROOTED. LARGE CONTAINERIZED AND BALLED-AND-BURLAPPED STOCK MAY BE PLANTED

LATE FALL, IF PLANTS HAVE NOT SUFFICIENTLY ROOTED IN PLACE. SOD USUALLY NEEDS 4 TO 6 WEEKS TO

INTO THE WINTER MONTHS AS LONG AS THE GROUND IS NOT FROZEN AND SOIL MOISTURE IS ADEQUATE.

SOIL TEMPERATURES ARE COLDER THAN 50 DEGREES, OR MOISTURE IS NOT ADEQUATE. THE SEEDS WILL REMAIN

PERIOD ALLOWS MORE TIME FOR WEED EMERGENCE AND WEED CONTROL PRIOR TO PLANTING. WHEN SELECTING

DORMANT UNTIL CONDITIONS ARE FAVORABLE. IN GENERAL, PLANTING DURING THE LATTER PORTION OF THIS

ADDITIONAL PLANTING DATES FOR THE LOWER COASTAL PLAIN, DEPENDENT ON ANNUAL RAINFALL ANI

A DORMANT CONDITION UNTIL PLANTING. BARE-ROOT GRASSES ARE THE EXCEPTION—THEY MAY BE SUPPLIED AS

PLANT HARDINESS ZONES

MAR 1 TO MAY 15

AUG 1 TO OCT 15

MAR 1 TO MAY 15++

MAY 16 TO JUN 15\*

MAR 1 TO MAY 15

MAY 16 TO SEP 14\*

SEP 15 TO NOV 15'

MARCH 1 TO MAY 15

MAY 16 TO JUN 30\*

MAR 1 TO MAY 15

MAY 16 TO JUN 30

SEP 15 TO NOV 30\*

7a & 7b

FEB 15 TO APR 30

AUG 15 TO OCT 31

NOV 1 TO NOV 30+

FEB 15 TO APR 30++

MAY 1 TO MAY 31\*

FER 15 TO APR 30

MAY 1 TO SEP 30

OCT 1 TO DEC 1\*

FEB 15 TO APR 30

MAY 1 TO JUN 30\*

FEB 15 TO APR 30

MAY 1 TO JUN 301

OCT 1 TO DEC 15

CONSTRUCT SWALE ON EAST SIDE OF COURT, PERMANENTLY STABILIZE SWALE WITH SOD, AND

NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT (410) 313-1880

TEMPORARY MOUNTABLE BERM AND AT GRADE INLET PROTECTION. INSTALL CLEAR WATER DIVERSION

INSTALL STABILIZED CONSTRUCTION ENTRANCE. SILT FENCE AND SUPER SILT FENCE. INSTALL

FINE GRADE SITE. (1 WEEK) FINAL GRADE PARKING LOT. (1 WEEK) 10. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING

INSTALL STORM DRAIN FROM CLEAN OUT TO ES-1 AND INSTALL BOCCI COURT. (1 MONTH)

SEQUENCE OF CONSTRUCTION

GRADE AND STABILIZE SLOPE. (1 WEEK))

AT LEAST 24 HOURS BEFORE STARTING ANY WORK

**OBTAIN GRADING PERMIT** 

GUTTER (1 WEEK)

TYPE OF PLANT MATERIAL

SEEDS- COOL-SEASON GRASSES

SOD - COOL-SEASON

(INCLUDES MIXES WITH FORBS AND/OR LEGUMES)

(INCLUDES MIXES WITH FORBS AND/OR LEGUMES)

SEEDS- WARM-SEASON/ COOL-SEASON GRASS MIXES

UNROOTED WOODY MATERIALS; BARE-ROOT PLANTS;

CONTAINERIZED STOCK; BALLED-AND-BURLAPPED STOCK

TOGETHER WITH THE PERMANENT SEEDING MIX.

MOISTURE FOR LATER PLANTINGS, ESPECIALLY ON DROUGHTY SITES.

GROWING (NON-DORMANT) PLANTS.

BULBS, RHIZOMES, CORMS AND TUBERS ?

ROUGH GRADE SITE. (1 WEEKS)

TABLE B.1: TEMPORARY SEEDING FOR SITE STABILIZATION

FERTILIZER RATE (10-20-20): 436 LB/AC (10LB/1000SF) LIME RATE: 2 TONS/AC (90LB/1000SF)

6/18/21 WASHPAD-REVISED SHEET NUMBERING DUGOUT SHADE STRUCTURES NEW SHEET-TO SHOW SEC NOTES FOR PROPOSED BOCCE COURT 2 No. Description Date

**REVISIONS** 

11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104

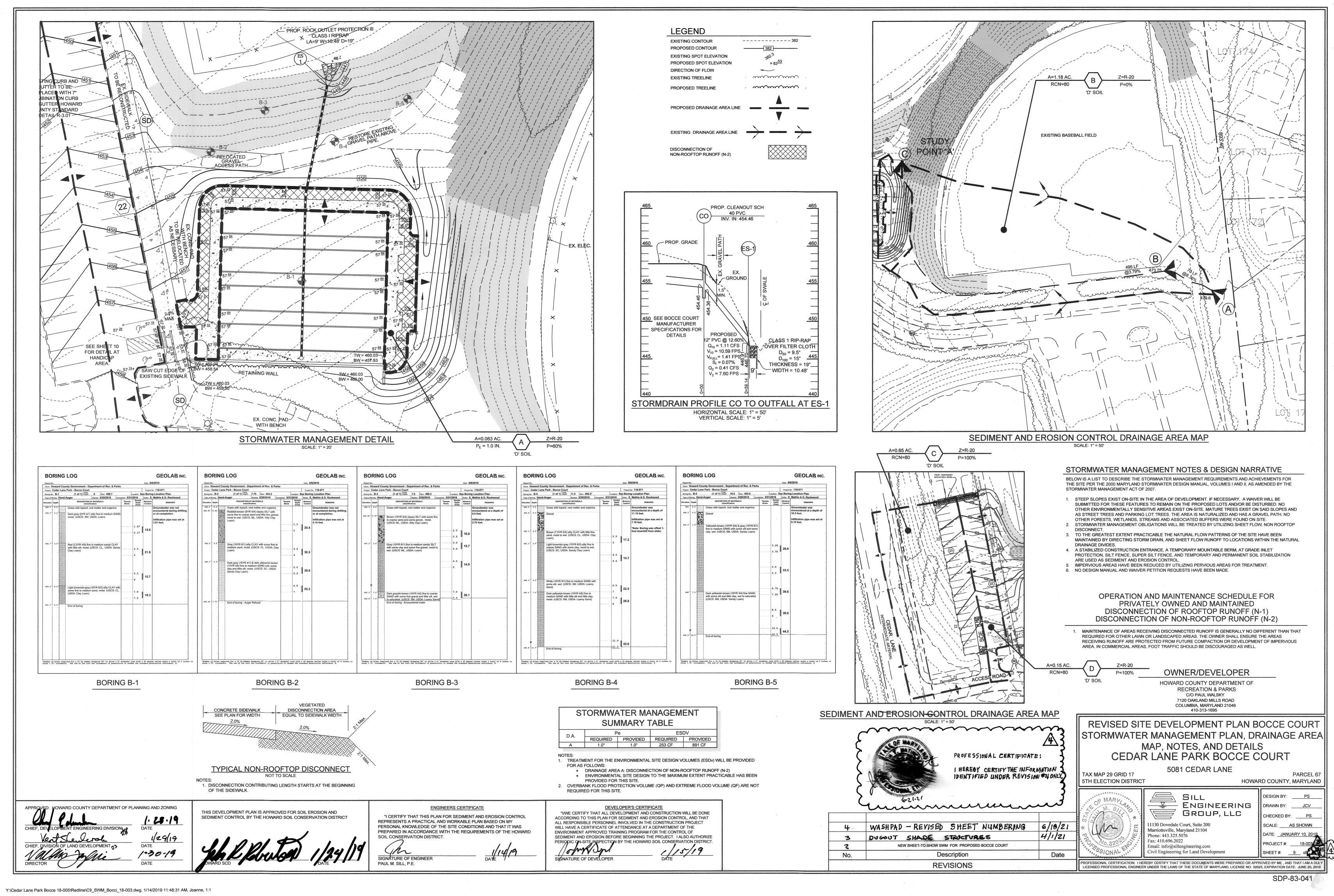
DESIGN BY: DRAWN BY: CHECKED BY: PS

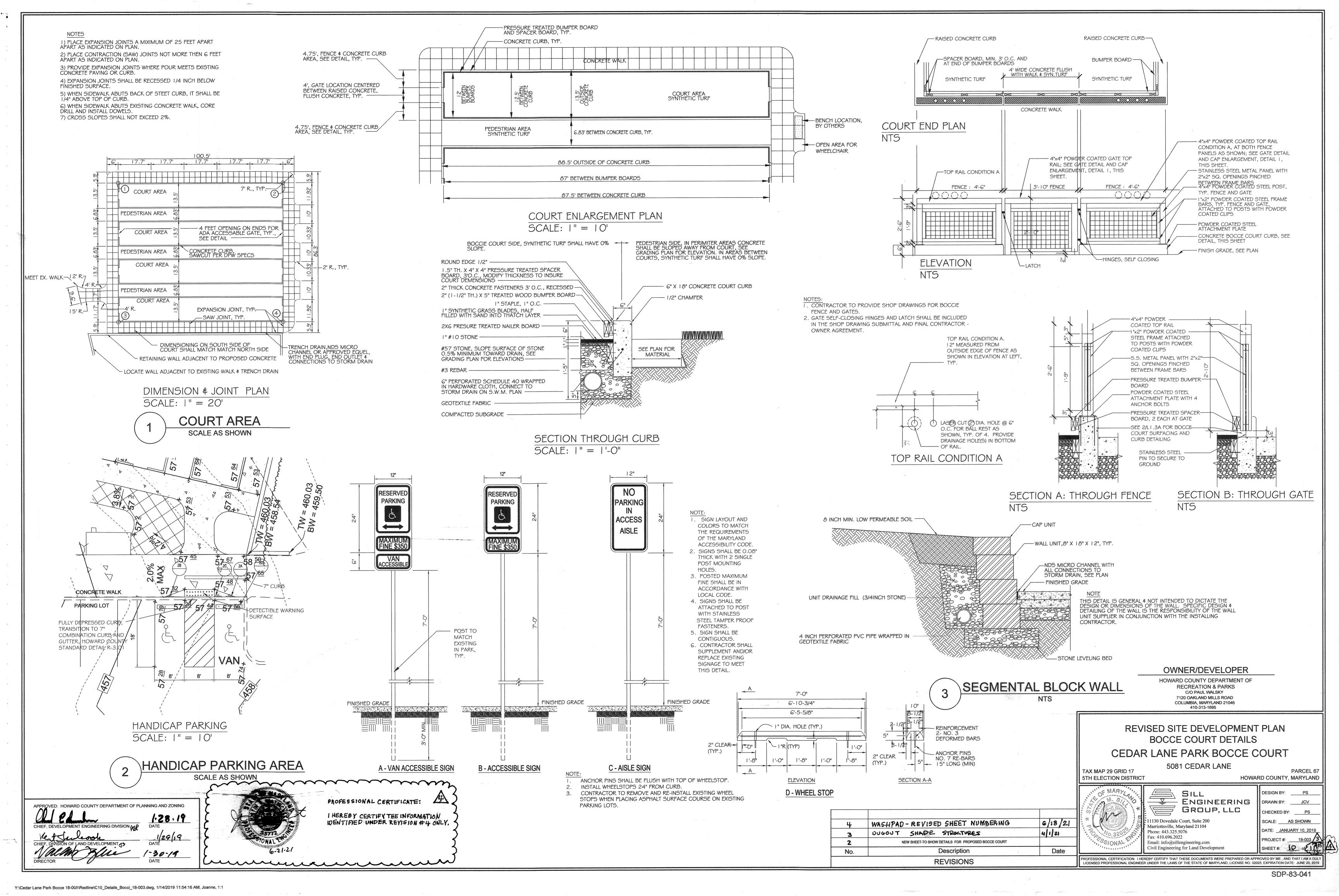
SCALE: AS SHOWN DATE: JANUARY 10, 201

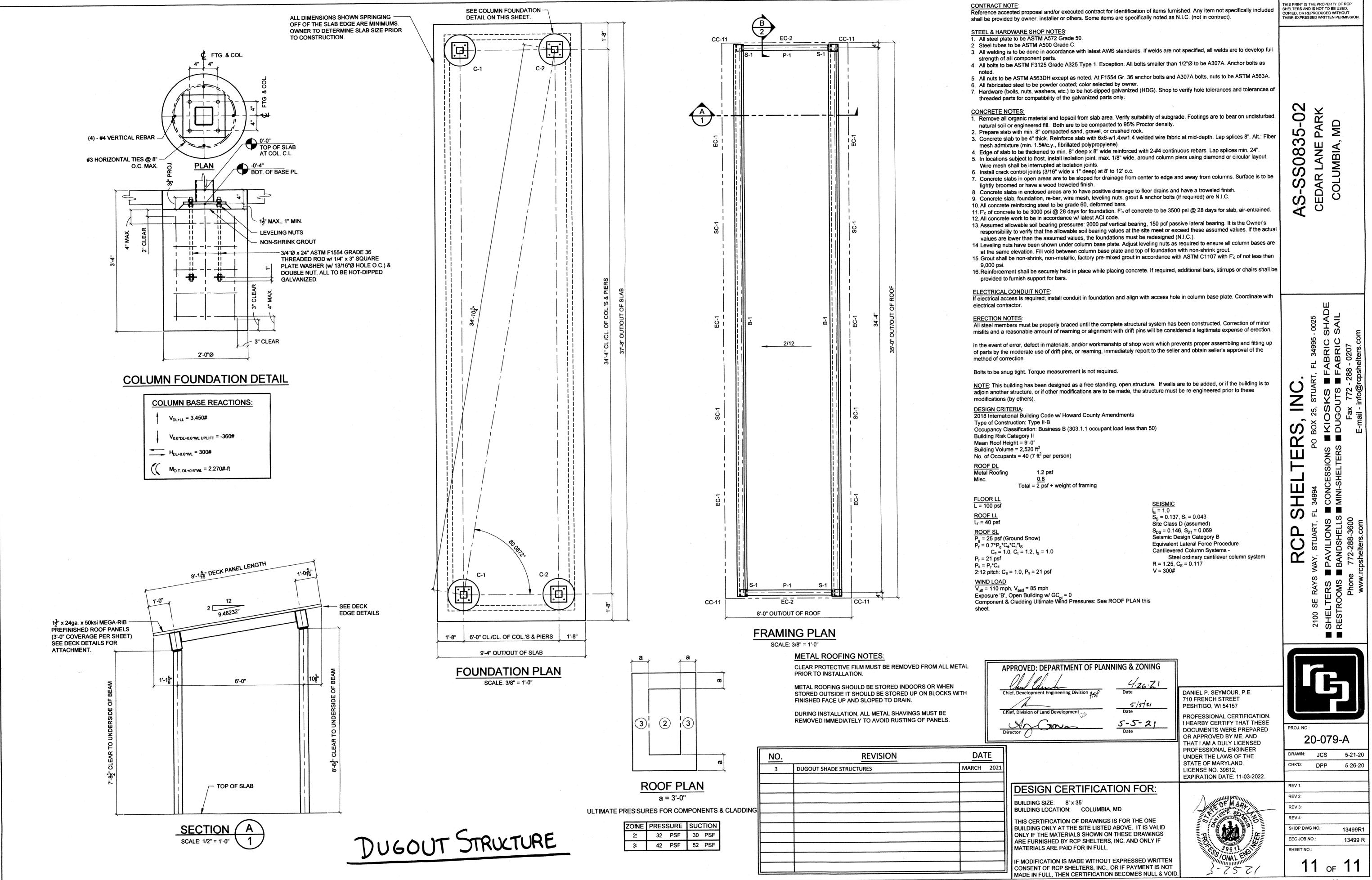
HOWARD COUNTY, MARYLAND

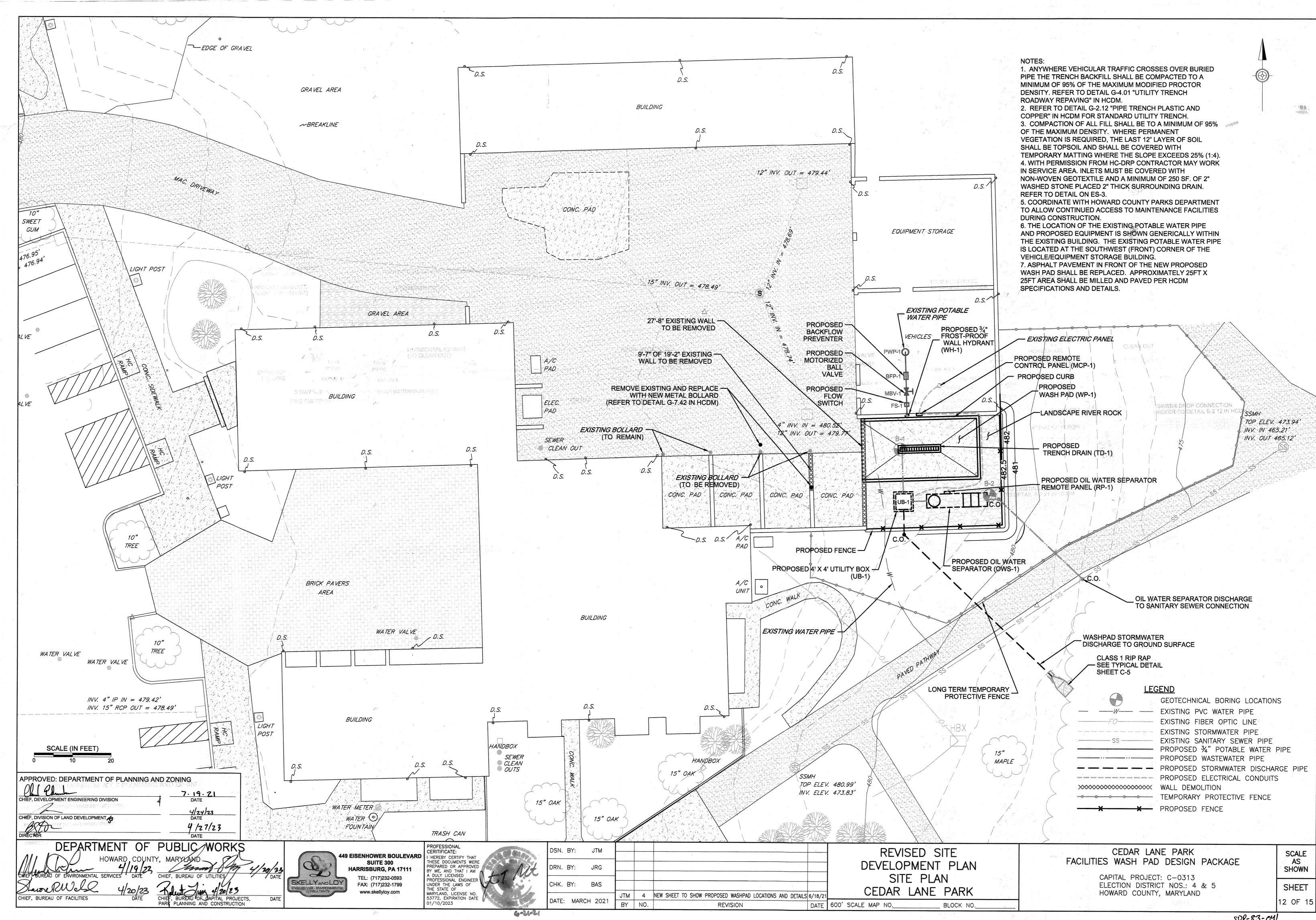
PARCEL 6

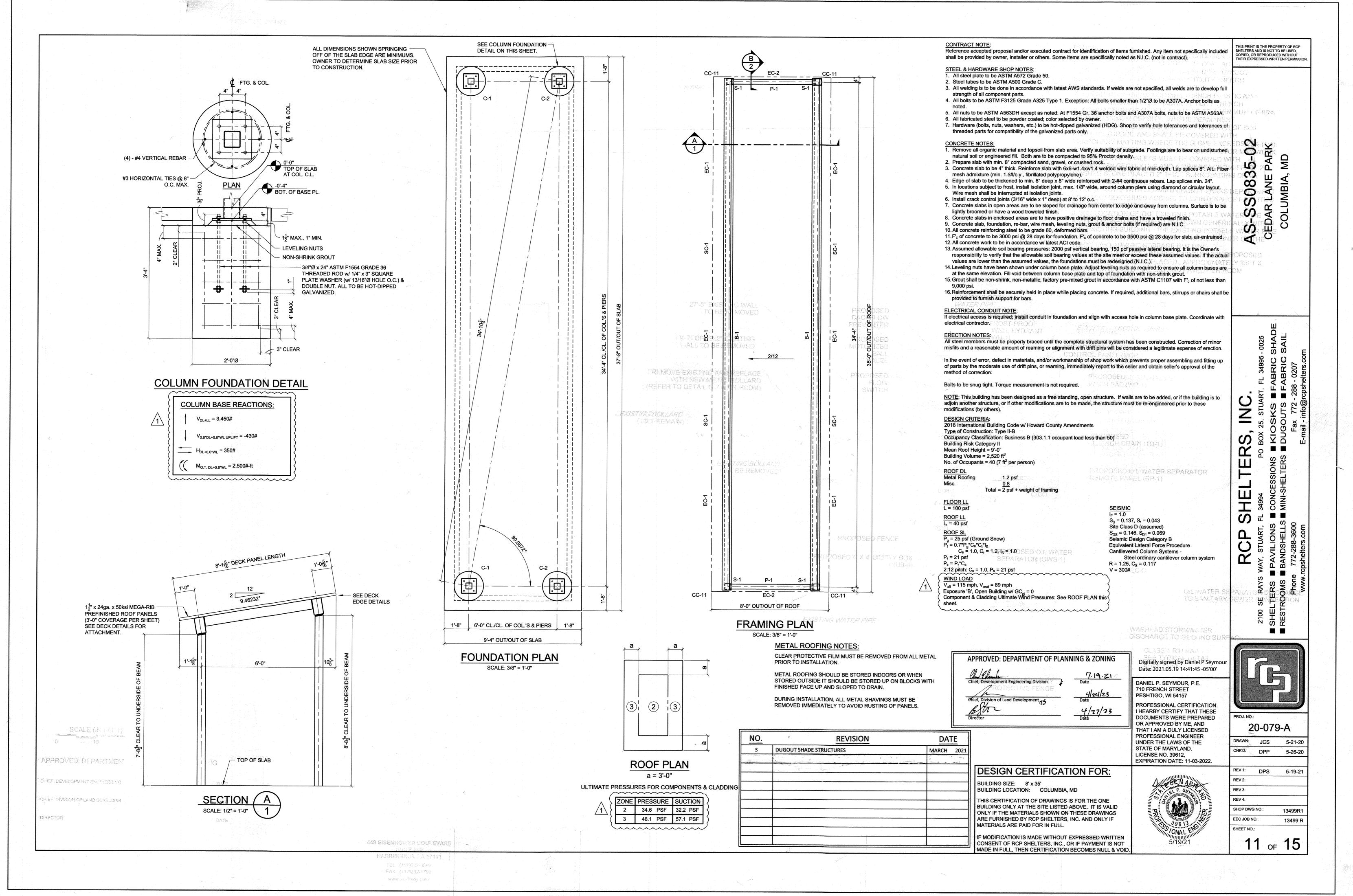
SDP-83-041

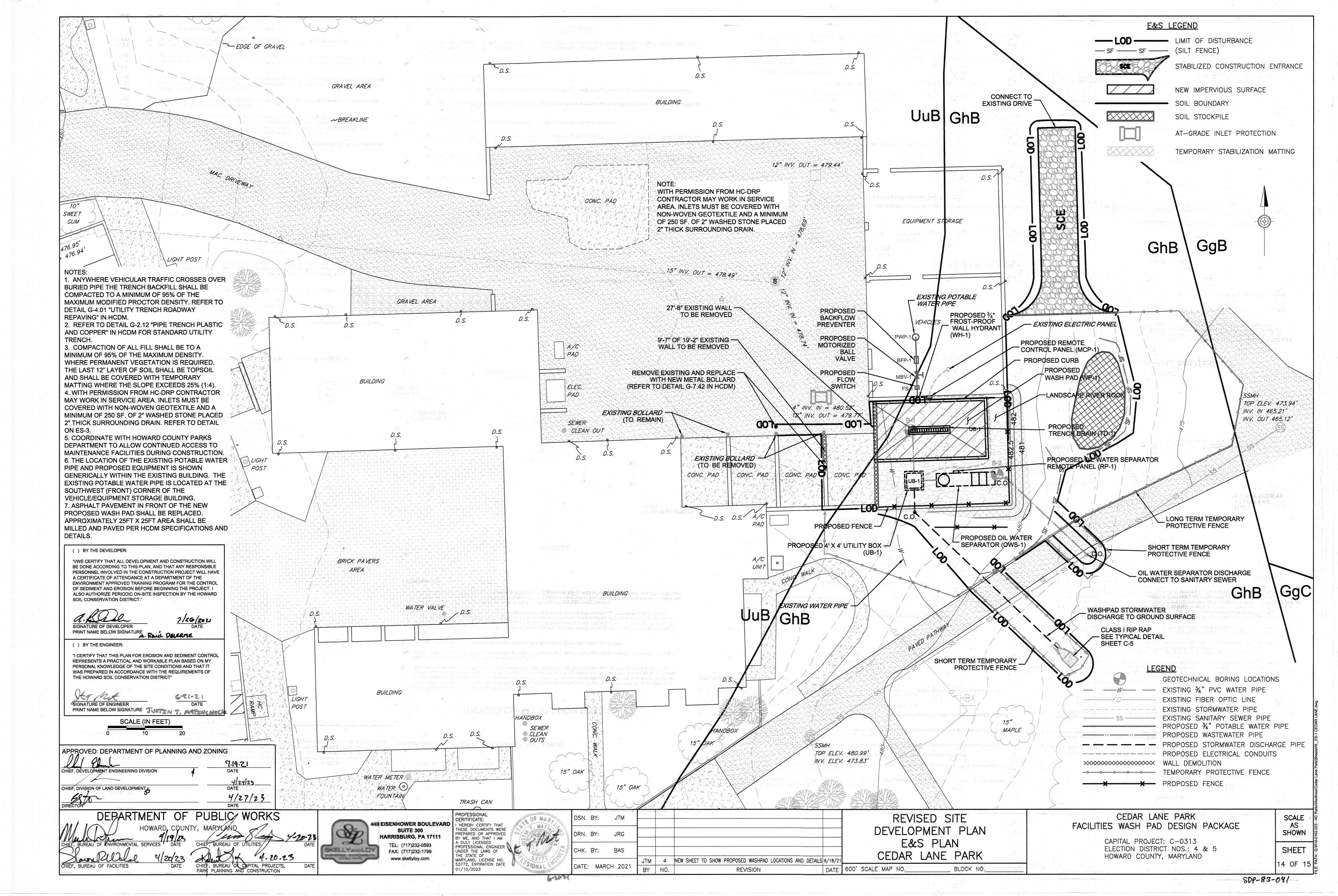










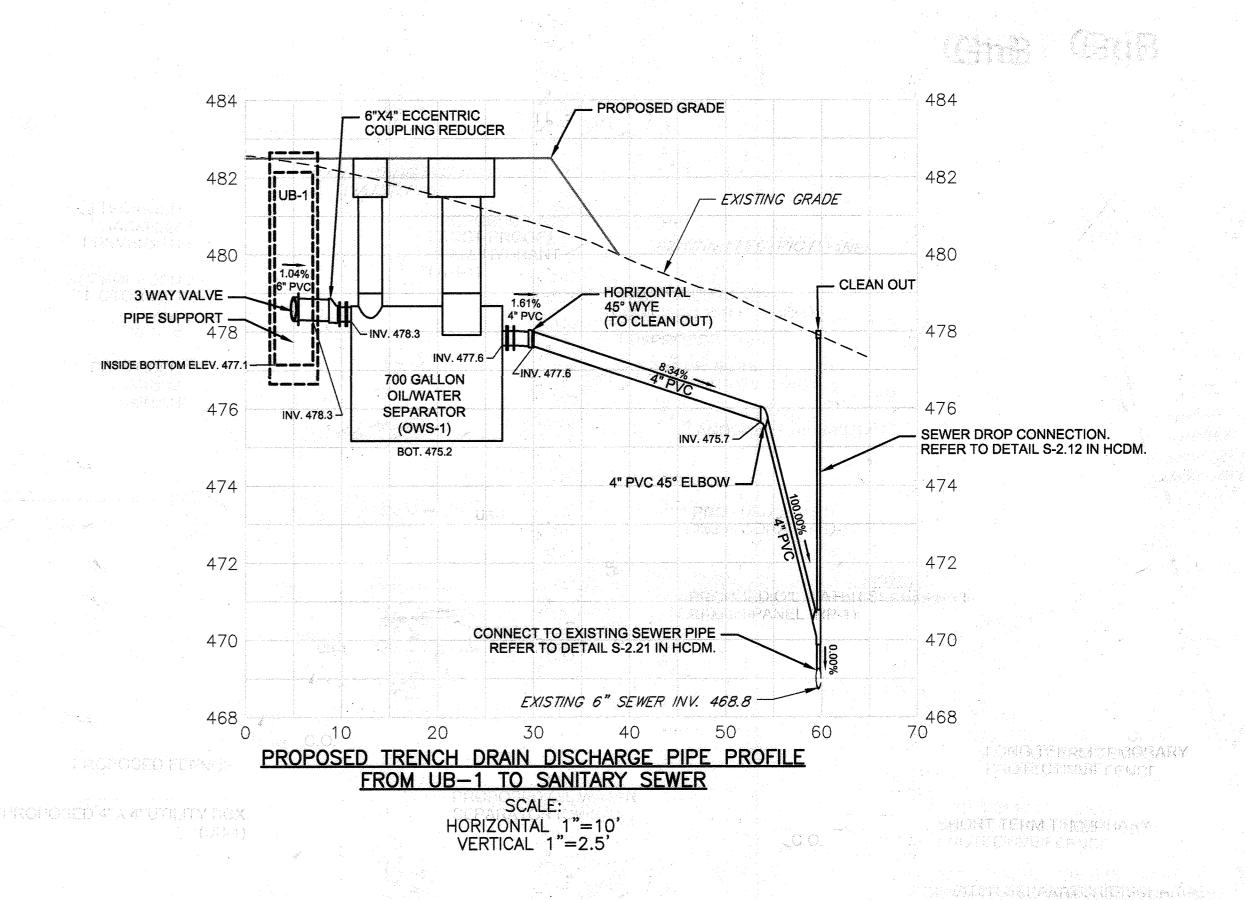


EXISTRATION DE LA CONTRACTION DE LA CONTRACTION

Z"TERKCLERC DREEKS FORMA - PROPOSED CURB -REINFORCED CONCRETE WASHPAD (WP-1) - TOP OF UB-1 TO BE A MIN. 2" ABOVE PROPOSED GRADE PRECAST CONCRETE
TRENCH DRAIN (TD-1) 484 - PROPOSED GRADE - EXISTING GRADE 482 480 **-- PROPOSED GRADE** -HORIZONTAL 45° WYE (TO CLEAN OUT) - PROPOSED 6" PVC ELBOWS INV. 478.3 -EXISTING EQLL 20 110 PROPOSED TRENCH DRAIN DISCHARGE PIPE PROFILE FROM TD-1 TO GROUND SURFACE

SCALE:

HORIZONTAL 1"=10' VERTICAL 1"=2.5'



DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

HIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE

CHIEF, BUREAU OF FACILITIES

CHIEF, BUREAU OF CAPITAL PROJECTS, PARK PLANNING AND CONSTRUCTION

DATE



RD	PROFESSIONAL CERITIFICATE: 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. 53772, EXPIRATION DATE 01/10/2023	
	• •	6-31-2

11/1	DATE: MARC	H 2021	BY	NO.	REVISION	DATE
			JTM	4	NEW SHEET TO SHOW PROPOSED WASHPAD LOCATIONS AND DETAILS	6/18/2
	CHK. BY:	BAS				
H	DRN. BY:	JRG				
e e						-
1000	D3N. D1.	O 1 IVI				
	DSN. BY:	JTM				

COGNERSCOOP MAD AREA IN CEENALL ARRANDALITA RESENTED COUNTRY MADAGENISM DESCRIPTION OF COMPRESSION CORRESSOOF CONTRACTORS FRANCISM

REVISED SITE
DEVELOPMENT PLAN
PROFILES
CEDAR LANE PARK

BLOCK NO.

600' SCALE MAP NO.

TWO THE WATER FARE

CEDAR LANE PARK FACILITIES WASH PAD DESIGN PACKAGE

CONFORCESSANDAYSEDESS

CAPITAL PROJECT: C-0313 ELECTION DISTRICT NOS.: 4 & 5 HOWARD COUNTY, MARYLAND

SHEET 13 OF 15

SCALE AS SHOWN

### FOREST CONSERVATION WORKSHEET FOR CEDAR LANE PARK FACILITIES WASHPAD DESIGN Net Tract Area Total (Gross) Tract Area Area within 100-year Floodplain Other Deductions (Identify: D. Net Tract Area Land Use Category Insert the number "1" under the appropriate land use (limit to only one entry) Rural LD Rural MD Suburban Linear Office PUD 0 0 0 1 Afforestation Threshold (Net Tract Area x Reforestation Threshold (Net Tract Area x

<ul> <li>G. Existing Forest Cover within the Net Tract Area</li> <li>H. Area of Forest above Afforestation Threshold</li> <li>I. Area of Forest above Reforestation Threshold</li> </ul>		G = 0.00 $H = 0.00$ $I = 0.00$	
Break Even Point J. Break Even Point K. Forest Clearing Permitted without Mitigation		J = 0.00 K = 0.00	
Proposed Forest Clearing  L. Total Area of Forest to be Cleared  M. Total Area of Forest to be Retained		L = 0.00 M = 0.00	
Planting Requirements Inside Watershed  N. Reforestation for Clearing above the Reforestation T P Reforestation for Clearing below the Reforestation T Q. Credit for Retention above the Reforestation Thresh R. Total Reforestation Required S. Total Afforestation Required T Total Reforestation and Afforestation Requirement U 75% of Total Obligation (Retention + Planting) V Planting Required Onsite to meet 75% Obligation	hreshold	$ N = 0.00 \\ P = 0.00 \\ Q = 0.00 \\ R = 0.00 \\ S = 0.00 \\ T = 0.00 \\ U = 0.00 \\ V = 0.00 $	
Planting Requirements Outside Watershed W. Total Planting within Development Site Watershed X. Total Afforestation Required Y. Remaining Planting within Watershed for Reforestat Z. Reforestation for Clearing above the Reforestation T AA. Reforestation for Clearing below the Reforestation T BB. Credit for Retention above the Reforestation Thresh CC. Total Reforestation Required DD. Total Afforestation and Reforestation Requirement	Threshold Threshold	W= 0.00 X= 0.00 Y= 0.00 Z= 0.00 AA= 0.00 BB= 0.00 CC= 0.00 DD= 0.00	
Date:April 2021  Note - Further improvements on the site will require forest	conservation.		
( ) BY THE DEVELOPER:  "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."	REPRESENTS A PRACTICATION PERSONAL KNOWLEDGE	AN FOR EROSION AND SEDIMENT CONT AL AND WORKABLE PLAN BASED ON M OF THE SITE CONDITIONS AND THAT IT ORDANCE WITH THE REQUIREMENTS O	Υ <sup>`</sup> Γ

THE HOWARD SOIL CONSERVATION DISTRICT"

7-20-23

SIGNATURE OF ENGINEER

CHIEF. BUREAU OF CAPITAL PROJECTS,

PARK PLANNING AND CONSTRUCTION

6-21-61

SIGNATURE OF DEVELOPER

PRINT NAME BELOW SIGNATURE

#### 1. NOTIFY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION AND INSPECTION DIVISION (410-313-1855) A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION AT CEDAR LANE PARK.

INSPECTOR FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

			JU FT WITH.			
EXISTING GROUND- NONWOVEN	MOI		5:1	8 FT MIN. 3 FT	EXISTING P	<b>AVEMENT</b>
GEOTEXTILE -		A	IN. 6 IN OF 2 TO 3 IN GGREGATE OVER LENGT ND WIDTH OF ENTRANCE	H PIF	PE (SEE NOTE 6)	
#\$1	•		PROFILE			
			50 FT MIN.	/ _		
			LENGTH *		10 FT MIN.	
		10FT MIN.			EDGE OF EXISTING	PAVEMEN
					A	

**CEDAR LANE PARK** 

SEQUENCE OF CONSTRUCTION

4. INSTALL TEMPORARY PROTECTIVE FENCE, SILT FENCE AND AT GRADE INLET PROTECTION AS SHOWN ON DRAWINGS.

6. REMOVE TOP SOIL FROM WASHPAD AREA, STOCKPILE TOPSOIL WHERE SHOWN ON PLAN.

10. PLAGE FILL MATERIAL AND STONE IN WASHPAD AREA AND COMPACT PER SPECIFICATIONS.

14. PLACE LANDSCAPE RIVER ROCK AROUND WASHPAD AREA WHERE SHOWN ON DRAWINGS

COMPLETE INSIDE PIPING AND EQUIPMENT INSTALLATION, AND ALL WIRING AND CONNECTIONS.

50 FT MIN.

11. PLACE TOPSOIL ABOVE UTILITY TRENCHES AND APPLY PERMANENT SEEDING MIX PER PERMANENT SEEDING

SPECIFICATIONS. USE TEMPORARY SOIL STABILIZATION MATTING ON SLOPES >25%, AS SHOWN ON PLAN.

16. REMOVE SILT FENCE AND AT GRADE INLET PROTECTION AFTER ADEQUATE VEGETATIVE STABILIZATION (95% GROUND

5. DEMOLISH EXISTING CONCRETE WALL AS SHOWN ON DRAWINGS. DISPOSE OF DEMOLISHED MATERIAL AT AN APPROVED

7. EXCAVATE FOR OWS-1, TD-1 AND UB-1. USE EXCAVATED MATERIAL FOR FILL IF NEEDED (IF SUITABLE). IMMEDIATELY HAUL

8. INSTALL OWS-1, TD-1 AND UB-1, CONNECTING PIPING AND CONDUIT. BACKFILL OWS-1, TD-1, UB-1, AND UTILITY TRENCHES.

USE EXCAVATED MATERIAL FOR FILL IF NEEDED AND SUITABLE. IMMEDIATELY HAUL AWAY EXCESS SOIL TO AN APPROVED

2. FIELD MARK LIMITS OF DISTURBANCE.

OFFSITE LOCATION.

OFFSITE LOCATION.

COVER) IS COMPLETE.

3. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

12. INSTALL CONCRETE WASHPAD AND CURBING.

AWAY EXCESS SOIL TO AN APPROVED OFFSITE LOCATION.

9. INSTALL RIPRAP APRON AT DISCHARGE OF PROPOSED STORMWATER PIPE.

13. INSTALL WOOD FRAME EXTENSION WALL AS SHOWN ON DRAWINGS.

#### **CONSTRUCTION SPECIFICATIONS**

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (\*30 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. 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 LOCATED AT A HIGH SPOT

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

4. 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.

5. 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 SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR 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 DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

#### STABILIZED CONSTRUCTION ENTRANCE NO SCALE



#### **SEEDING NOTES**

REFER TO SECTIONS B-4-2 THROUGH B-4-5 OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL (LATEST EDITION) FOR FURTHER INSTRUCTION REGARDING VEGATATIVE STABILIZATION.

#### PERMANENT SEEDING SPECIFICATIONS

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGATIVE COVER IS NEEDED.

PERMANENT SEEDING SPECIFICATIONS ARE AS FOLLOWS:

	HARDINESS 2	FERTILI.	LIME				
SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P205	K20	RATE
TALL FESCUE	100	MAR 1 TO MAY 15 AUG 1 TO OCT 15	1/4 - 1/2 IN	45 LB/AC (1.0 LB/ 1,000 SF)	90 LB/AC (2.0 LB/ 1,000 SF)	90 LB/AC (2.0 LB/ 1,000 SF)	2 TONS/AC (90 LB/ 1,000 SF)

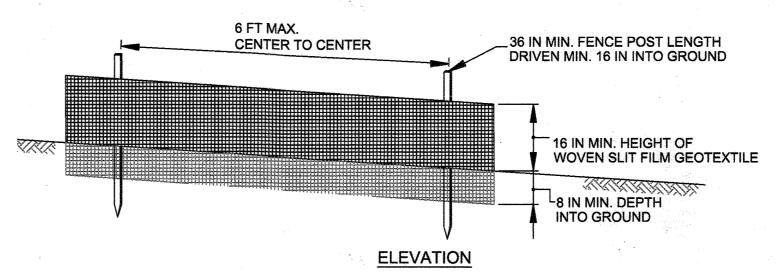
MAINTENANCE FERTILIZATION FOR PERMANENT SEEDING SHALL BE AS FOLLOWS

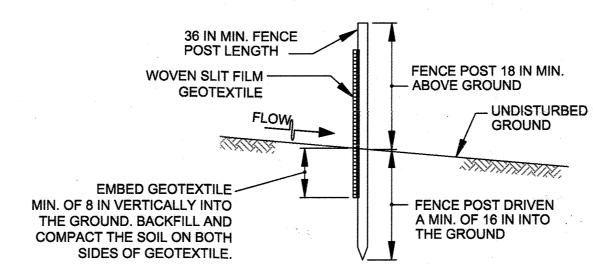
SEEDING MIXTURE	TYPE	LB/AC	LB/1,000 SF	TIME	MOWING
TALL FESCUE MAKES UP 70% OR	10-10-10 OR	500	11.5	45 LB/AC (1.0 LB/	90 LB/AC (2.0 LB/
MORE OF COVER	10/10/1930	400	9.2	1,000 SF)	1,000 SF)

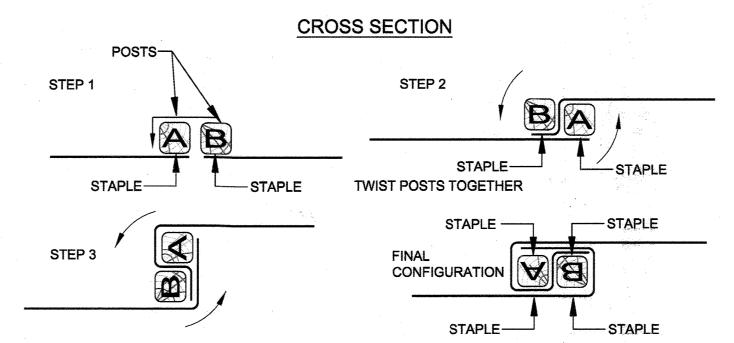
#### TEMPORARY SEEDING SPECIFICATIONS

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGATATIVE COVER IS NEEDED

	HARDINESS	FERTILIZER			
SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	RATE (10-20-20)	LIME RATE
ANNUAL RYEGRASS	40	MAR 1 TO MAY 15; AUG 1 TO OCT 15	½ IN	436 LB/AC (10 LB/ 1,000 SF)	2 TONS/AC (90 LB/ 1,000 SF)
FOXTAIL MILLET	30	MAY 16 TO JULY 31	½ IN	(10 EB/ 1,000 31 )	(90 LD/ 1,000 SI )







#### JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

#### **CONSTRUCTION SPECIFICATIONS**

- 1. USE WOOD POSTS 1½ X 1½ ± 1/6 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- 2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- 3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- 4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- 5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- 7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO

6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL

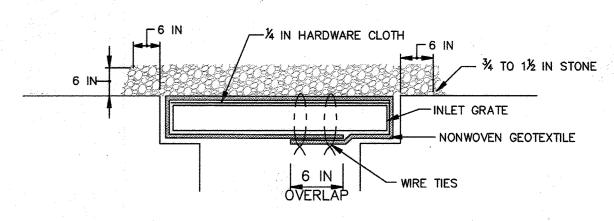
PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

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

> SILT FENCE NO SCALE

## MAXIMUM DRAINAGE AREA = 1 ACRE 4 TO 11/2 IN STONE NONWOVEN GEOTEXTILE

PLAN / CUT AWAY VIEW

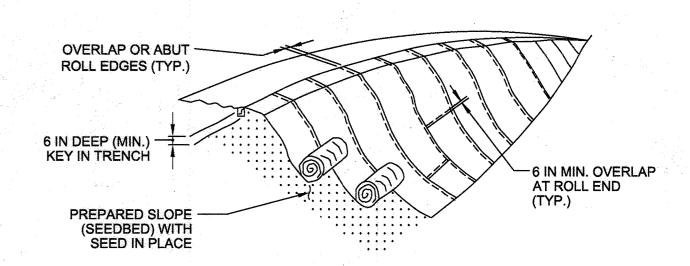


CROSS SECTION

CONSTRUCTION SPECIFICATIONS

- 1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- 2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS, SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
- 3. PLACE CLEAN 1/4 TO 11/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE
- 4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE

#### AT-GRADE INLET PROTECTION NO SCALE



#### ISOMETRIC VIEW

#### CONSTRUCTION SPECIFICATIONS

- 1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- 2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN, IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- 3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1% INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG, "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- 4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
- 5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE
- 6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- 7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN
- 8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- 9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

#### TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

NO SCALE

CEDAR LANE PARK FACILITIES WASH PAD DESIGN PACKAGE

SHOWN

SDP-83-041

01/10/2023

SUITE 300

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EISENHOWER BOULEVARD I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED RRISBURG, PA 17111 BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF UNDER THE LAWS OF THE STATE OF

**PROFESSIONAL** CERITIFICATE: MARYLAND, LICENSE NO. 53772, EXPIRATION DATE

DSN. BY: JTM DRN. BY: JRG CHK. BY: BAS

JTM 4 NEW SHEET TO SHOW PROPOSED WASHPAD LOCATIONS AND DETAILS 6/18/2 DATE: MARCH 2021 BY NO. REVISION

DEVELOPMENT PLAN

DATE 600' SCALE MAP NO.

E&S DETAILS AND NOTES CEDAR LANE PARK BLOCK NO.

REVISED SITE

CAPITAL PROJECT: C-0313 ELECTION DISTRICT NOS.: 4 & 5 HOWARD COUNTY, MARYLAND

SHEET 15 OF 15

SCALE

AS