

# SITE DEVELOPMENT PLAN ARRINGTON OVERLOOK

6490 LAWYERS HILL ROAD  
TAX MAP No. 38 GRID No. 02 PARCEL NO. 18  
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

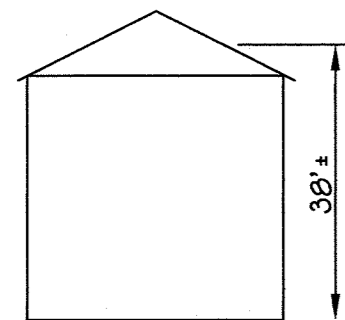
SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT & SEDIMENT AND EROSION CONTROL PLAN
3	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
4	LANDSCAPE PLAN
5	STORMWATER MANAGEMENT NOTES AND DETAILS

SOILS LEGEND			
SOIL	NAME	CLASS	K <sub>v</sub> VALUE
RuB	Russett and Beltsville soils, 2 to 5 percent slopes	C	0.24
UcB	Urban land-Chillum-Beltsville complex, 0 to 5 percent slopes	C	0.37

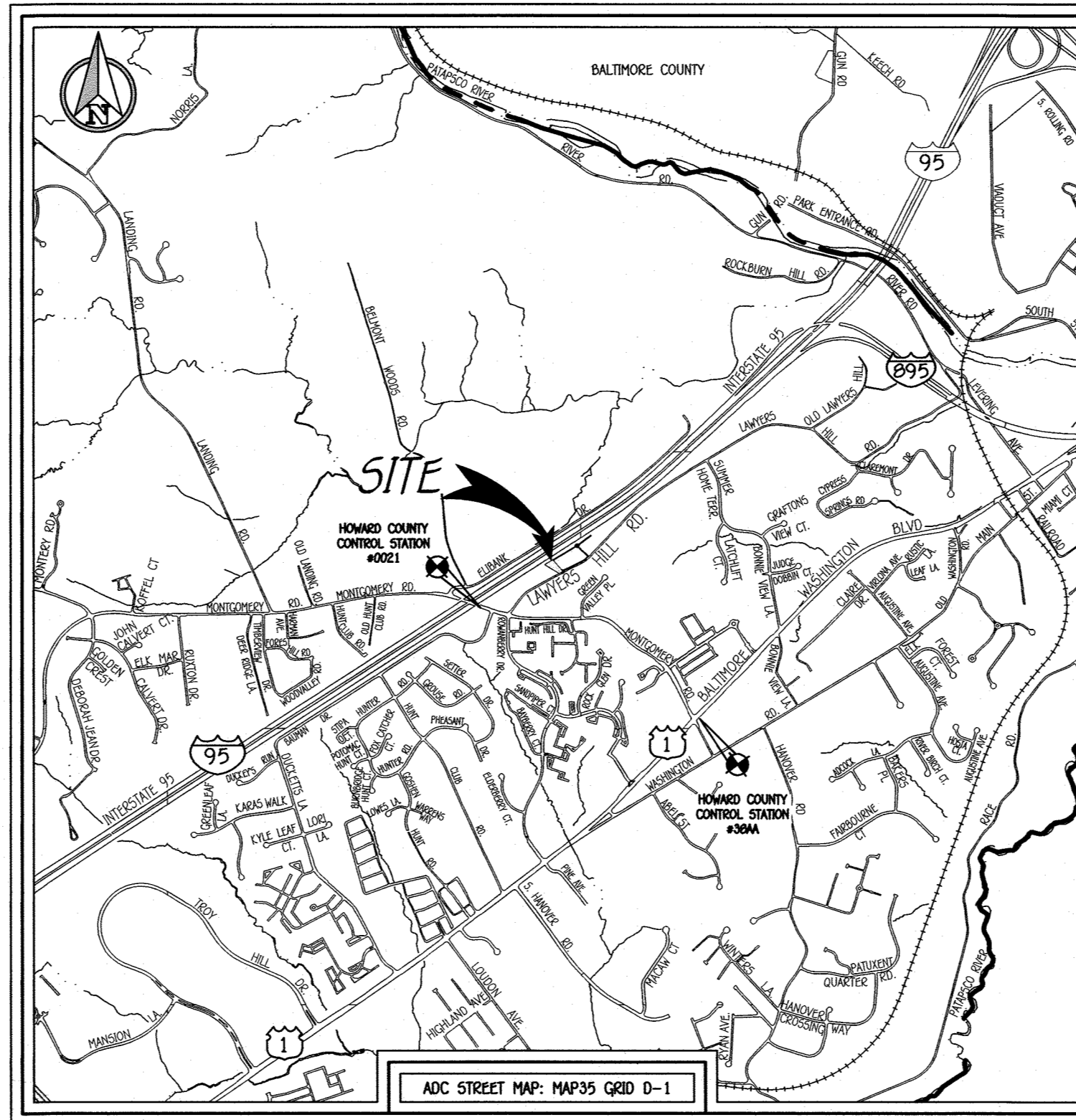
STORMWATER MANAGEMENT PRACTICES						
LOT NO.	PERMEABLE CONCRETE (A-2) Y/N, NUMBER	DISCONNECTION OF ROOFTOP RUNOFF (N-1) Y/N, NUMBER	DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2) Y/N, NUMBER	INFILTRATION BERMS (M-4) Y/N, NUMBER	DRY WELLS (M-5) Y/N, NUMBER	MICRO-BIORETENTION (M-6) Y/N, NUMBER
1	NO	NO	NO	NO	NO	YES, ONE (1)

STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	340 (STORAGE)	305 (STORAGE)	MICRO-BIORETENTION (M-6)
TOTAL	340	305	

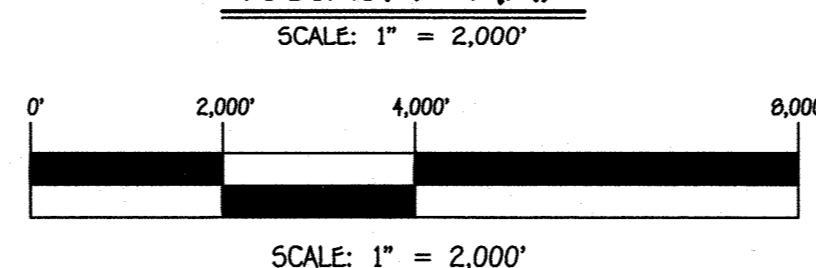
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
1	6490 LAWYERS HILL ROAD



**GENERIC HOUSE BOX**  
SCALE: 1" = 30'



**VICINITY MAP**



### GENERAL NOTES

1. THIS PROPERTY IS ZONED R-ED PER THE 2013 COMPREHENSIVE ZONING PLAN.
2. IN ACCORDANCE WITH SECTION 12B.0 OF THE HOWARD COUNTY ZONING REGULATIONS BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN HEIGHT MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
3. THIS SUBDIVISION PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 2013 ZONING REGULATIONS IN EFFECT AT THE TIME OF APPROVAL OF THIS SITE DEVELOPMENT PLAN.
4. DRIVEWAY SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR THE NEW DWELLING TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: (REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06 FOR DRIVEWAY ENTRANCE.)  
WIDTH - 12'  
SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN) GEOMETRY - MAX 15% GRADE, MAX 10% CROSS SLOPE AND MIN 45' TURNING RADIUS.  
STRUCTURE (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING)  
DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE  
MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
5. BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. DATED JAN. 2018.
6. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN JAN. 2018 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVALS (FOR 2' CONTOUR INTERVALS).
7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 0021 AND 38AA WERE USED FOR THIS PROJECT.  
Sta. 0021 N 562,745.797 E 1,366,542.119 Elev. = 226.200  
Sta. 38AA N 561,156.819 E 1,369,726.426 Elev. = 220.036
8. PREVIOUS DPZ FILE NUMBERS: ECP-20-017
9. STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 5 OF THE MARYLAND DEPARTMENT OF ENVIRONMENT STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. STORM WATER MANAGEMENT IS PROVIDED BY THE USE OF ONE (1) M-6 MICRO-BIORETENTION TO MEET AND EXCEED THE REQUIRED ESU VOLUME.
10. THE SMM FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNER.
11. THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOTS TO BE DEVELOPED PUBLIC WATER AND PUBLIC SEWER, CONTRACT #44-4280 & 10-1216.
12. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
13. THIS PROPERTY IS PART OF A FOREST STAND IDENTIFIED BY ECO SCIENCE PROFESSIONALS INC. AS PART OF A REPORT DATED MARCH 15, 2019.
14. SOIL BORINGS WERE EXCAVATED ON MAY 24TH, 2019 TO DETERMINE DEPTH TO ROCK OR WATER.
15. SOILS SHOWN HEREON ARE BASED ON THE NCS2 WESBOL SURVEY AND HOWARD COUNTY SOIL MAP #20.
16. THERE ARE NO SPECIMEN TREES, WETLANDS, STREAMS, 100 YEAR FLOODPLAIN OR STEEP SLOPES WITH A CONTIGUOUS AREA GREATER THAN 20,000 SQUARE FEET LOCATED ON THIS PROPERTY. THERE ARE NO WETLANDS ON-SITE THAT WILL BE DISTURBED OR THAT WILL REQUIRE 401 AND 404 WETLANDS PERMITS FROM THE STATE OF MARYLAND.
17. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLAND, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION AREAS.
18. ACCORDING TO SUBTITLE 12, SECTION 16.1202(b)(1)(i) OF THE PLANNING, ZONING, AND SUBDIVISIONS AND LAND DEVELOPMENT REGULATIONS THIS PROPERTY IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS.
19. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL, FINANCIAL SURETY IN THE AMOUNT OF \$2,400.00 FOR 6 SHADE TREES, 2 ORNAMENTAL TREES, AND 2 EVERGREEN TREES HAS BEEN POSTED AS PART OF THE GRADING PERMIT.
20. NO HISTORICAL FEATURES OR CHIMNEYS ARE ON SITE.
21. THIS SUBDIVISION IS ZONED R-ED BUT WILL BE DEVELOPED UNDER R-20 REGULATIONS ACCORDING TO SECTION 107.0.1.1
22. THE 65dbb NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS, AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPT. OF HOUSING AND URBAN DEVELOPMENT.
23. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1860 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
24. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
25. S&L DENOTES BUILDING RESTRICTION LINE.
26. SITE IS NOT ADJACENT TO A SCENIC ROAD.
27. DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO HAD '93 GRID.
28. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
29. EXISTING UTILITIES ARE BASED ON FIELD SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. JAN 2018 AND HOWARD COUNTY RECORD DRAWINGS AS LABELED.
30. REFER TO INVERT ELEVATION AT PROPERTY LINE AND MAIN FOR SANITARY HOUSE CONNECTION.

### SITE ANALYSIS DATA CHART

- |    |   |
|----|---|
| A. | TOTAL AREA OF THIS SUBMISSION = 0.426 AC.*  |
| B. | LIMIT OF DISTURBED AREA = 9,022 SQ.FT. OR 0.22 AC.*   |
| C. | PRESENT ZONING DESIGNATION = R-ED<br>(PER 10/06/2013 COMPREHENSIVE ZONING PLAN)   |
| D. | PROPOSED USE: RESIDENTIAL   |
| E. | PREVIOUS HOWARD COUNTY FILES: ECP-20-017  |
| F. | TOTAL AREA OF FLOODPLAIN AND THEIR BUFFERS LOCATED ON-SITE = 0.0 AC.*   |
| G. | TOTAL AREA OF STEEP SLOPES:<br>MODERATE STEEP SLOPES: 15%-24.9% = 0.00 AC.*<br>STEEP SLOPES: 25% OR GREATER = 0.00 AC.* |
| H. | TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.* (BUFFER)  |
| I. | TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC.* (BUFFER)  |
| J. | TOTAL AREA OF EXISTING FOREST = 0.422 AC.*  |
| K. | TOTAL AREA OF FOREST TO BE RETAINED = (0.280 Sq.Ft.) 0.19 AC.*  |
| L. | TOTAL AREA OF LOTS / BUILDABLE PARCELS = 0.426 AC.*   |
| M. | TOTAL GREEN OPEN AREA = (15,279.6 sq. ft.) 0.35 AC.*  |
| N. | TOTAL PROPOSED IMPERVIOUS AREA = 0.00 AC.*  |
| O. | TOTAL AREA OF ERODIBLE SOILS = 0 AC.*   |
| P. | TOTAL AREA OF ROAD DEDICATION = 0 AC.*  |

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461 - 2000

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development *[Signature]* 9/21/21  
Date

Chief, Development Engineering Division *[Signature]* 9/21/21  
Date

Director - Department of Planning and Zoning *[Signature]* 9-21-21  
Date



**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

*[Signature]* 6/16/21  
FRANK ANNALANSAN II, L.S. DATE

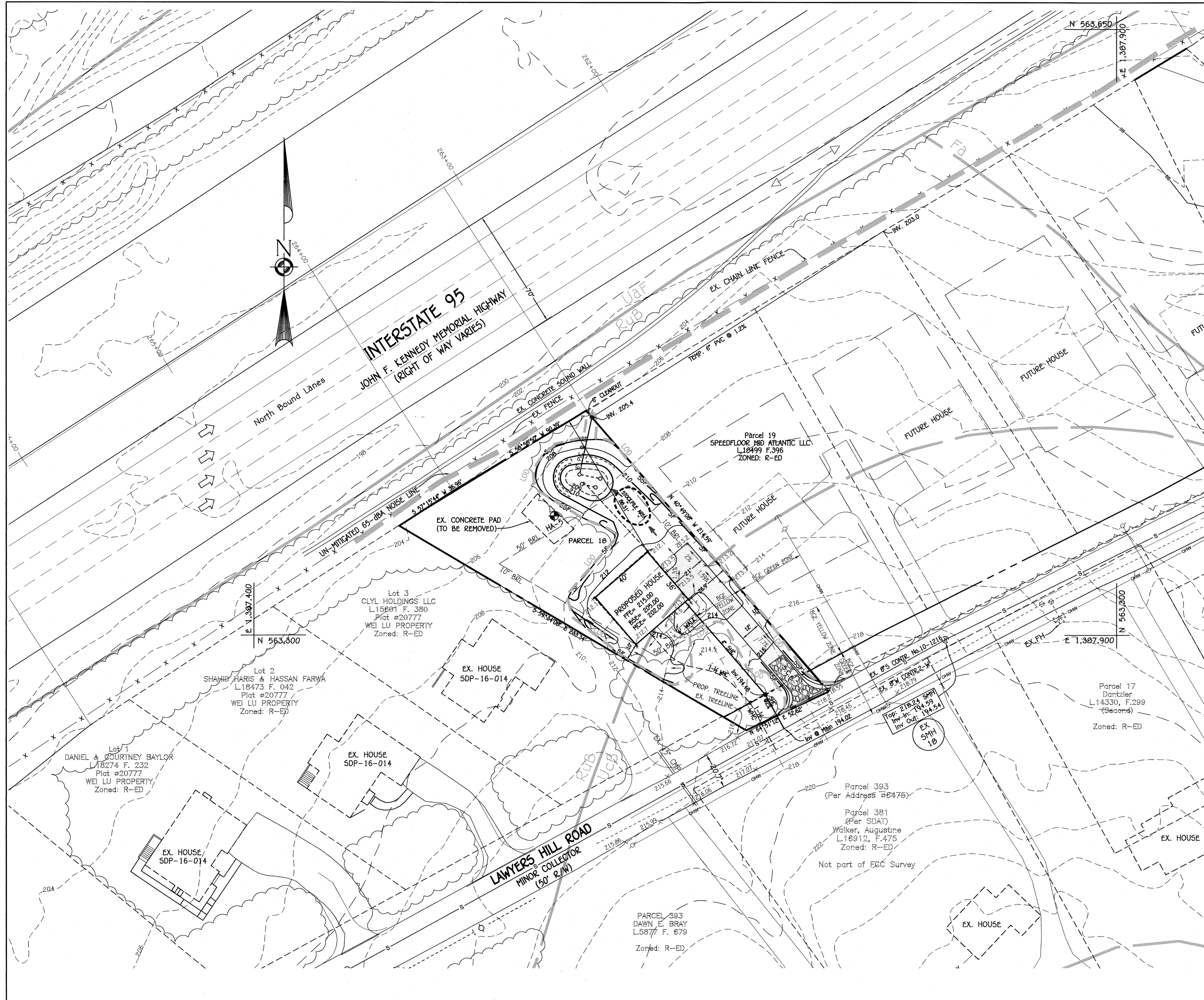
**OWNER/DEVELOPER**

SPEEDFLOOR MID-ATLANTIC LLC  
C/O TIMOTHY HAGMAN  
7116 JOHN CALVERT CT.  
ELKRIDGE, MARYLAND 21075  
443-906-6186

SUBDIVISION		REVISION		DATE	
ARRINGTON MANOR		SECTION/AREA		PARCEL	
		18		18	
DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L-18499	F-396	N/A	R-ED	38	1 601201

TITLE SHEET

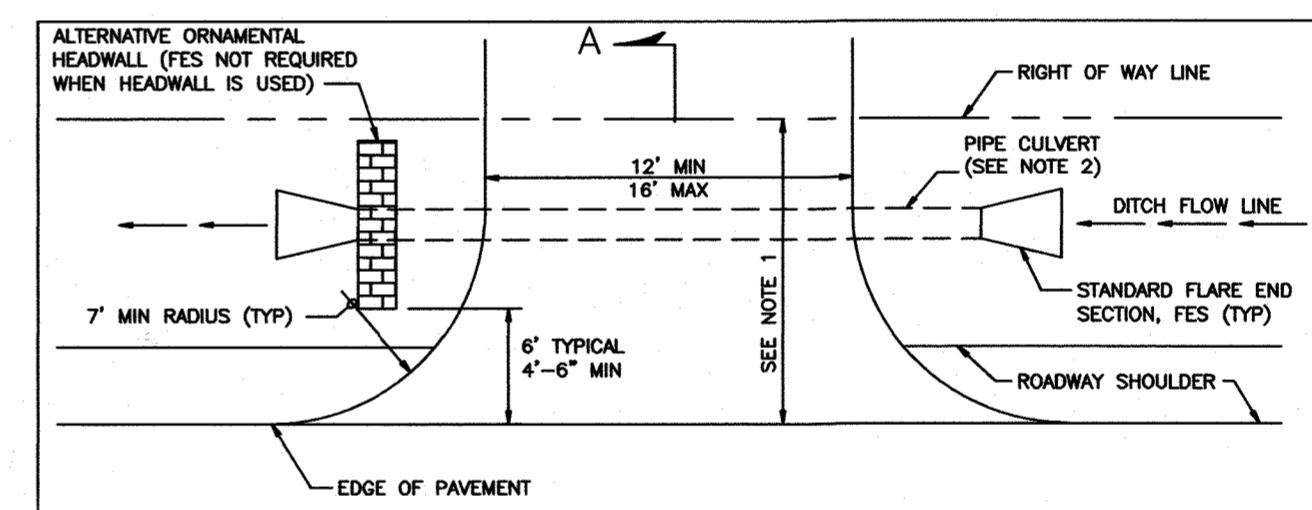
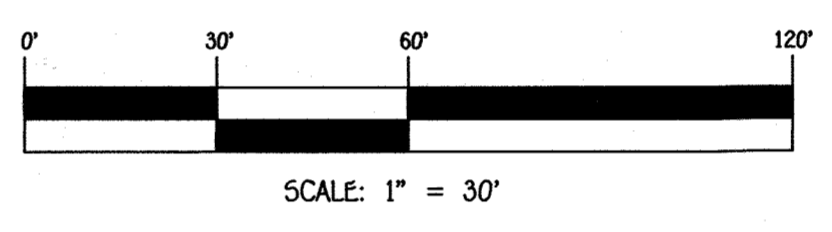
**ARRINGTON OVERLOOK**  
6490 LAWYERS HILL ROAD  
TAX MAP NO.: 38 GRID NO.: 02 PARCEL NO.: 18  
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: APRIL, 2021  
SHEET 1 OF 5



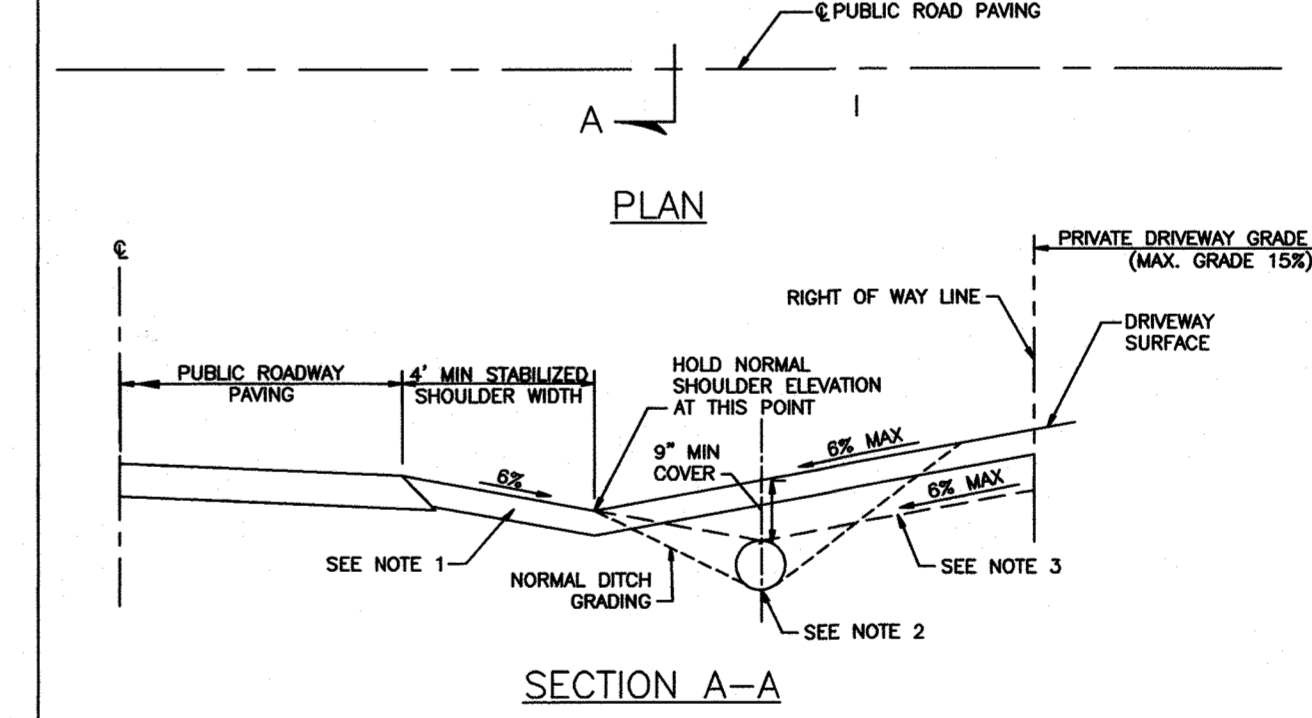
SOILS LEGEND			
SOIL	NAME	CLASS	K <sub>w</sub> VALUE
RuB	Russett and Beltsville soils, 2 to 5 percent slopes	C	0.24
UcB	Urban land-Chillum-Beltsville complex, 0 to 5 percent slopes	C	0.37

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x 440.5	SPOT ELEVATION
---	EXISTING STORM DRAIN
---	PROPOSED STORM DRAIN PIPE
---	EX. F.H.
---	EXISTING WATER LINE
---	EXISTING SEWER LINE
---	PROPOSED SEWER
---	PROPOSED WATER
---	EXISTING CABLE LINE
---	EXISTING OVERHEAD WIRE
---	PROPOSED PAVING/PATH
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	PERMANENT SOIL STABILIZATION MATING
---	EXISTING TREE LINE
---	PROPOSED TREE LINE
---	FUTURE TREE LINE (ECP-19-047)
---	DRAINAGE AREA
---	SOIL LINES AND TYPES
---	MICRO-BIO RETENTION FACILITY (M-6)
---	STABILIZED CONSTRUCTION ENTRANCE

EXISTING GROUND ELEV. 207.33'  
 BOTTOM OF PROPOSED FACILITY (ELEV. 205.00)  
 EXCAVATION DEPTH 6.5' (ELEV. 200.83)  
 GROUND WATER ENCOUNTERED  
 BOTTOM OF EXCAVATION 10.0' (197.33') REFUSAL  
**BORING HA-5**  
 SCALE: 1" = 10'



- NOTES:**
- DRIVEWAY MUST BE PAVED FROM EDGE OF PUBLIC ROAD TO RIGHT OF WAY LINE USING STANDARD PAVING SECTION P-1 OR ALTERNATE SECTION EQUAL TO OR BETTER THAN P-1, AS APPROVED BY DPW.
  - DRAINAGE CULVERT SHALL BE SIZED FOR A 10 YEAR FREQUENCY STORM AND THE MINIMUM SIZE SHALL BE 12" DIA. ROUND OR 14"x9" ARCH. PIPE IF LARGER PIPE IS REQUIRED, DITCH INVERT SHALL BE LOWERED TO PROVIDE MIN DITCH GRADIENT OF 0.5% AND CLEARANCE SHOWN.
  - SWALE FLOW MAY BE PROVIDED OVER DRIVEWAY LOCATED AT OR NEAR THE CREST OF VERTICAL CURVES ON THE PUBLIC ROAD WHERE QUANTITY OF FLOW IS SMALL, AS APPROVED BY DPW.
  - TIE-IN GRADE OF PRIVATE DRIVEWAY SHALL NOT EXCEED 15%.
  - SEE TYPICAL SECTIONS FOR LAYOUT AND GRADING OF DITCH AND PIPE CULVERT.
  - USE OF THE ALTERNATIVE ORNAMENTAL HEADWALL SHALL REQUIRE APPROVAL BY THE DPW DIRECTOR. HOWARD COUNTY WILL NOT MAINTAIN ORNAMENTAL HEADWALLS. AN HOA AGREEMENT IS REQUIRED.



**ALTERNATIVE ORNAMENTAL HEADWALL DETAIL**

Howard County, Maryland Department of Public Works Approved: _____ Chief, Bureau of Engineering	RESIDENTIAL DRIVEWAY ENTRANCE Open Section Roadway	Detail <b>R-6.06</b>
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APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development *[Signature]* 9/21/21  
 Date

Chief, Development Engineering Division *[Signature]* 9/21/21  
 Date

Director - Department of Planning and Zoning *[Signature]* 9-21-21  
 Date



**PROFESSIONAL CERTIFICATE**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*[Signature]* 6/10/21  
 SIGNATURE OF LICENSED PROFESSIONAL FRANK JOHN MANALANSAN II DATE

**BUILDER/DEVELOPER'S CERTIFICATE**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL AND THAT 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."

*[Signature]* 5/15/2021  
 SIGNATURE OF DEVELOPER TIMOTHY HARMAN DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]* 09/07/21  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**OWNER/DEVELOPER**  
 SPEEDFLOOR MID-ATLANTIC LLC  
 C/O TIMOTHY HARMAN  
 7116 JOHN CALVERT CT.  
 ELK RIDGE, MARYLAND 21075  
 443-506-6188

NO.	REVISION	DATE
NO.	SECTION/AREA	PARCEL
SUBDIVISION	ARRINGTON MANOR	1B
DEED	BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR.	
L18499 F.396	N/A R-ED 3B 1 601201	

**SITE DEVELOPMENT & SEDIMENT AND EROSION CONTROL PLAN**

**ARRINGTON OVERLOOK**  
 6490 LAWYERS HILL ROAD  
 TAX MAP NO.: 3B GRID NO.: 02 PARCEL NO.: 1B  
 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: APRIL, 2021  
 SHEET 2 OF 5

SDP-20-062

## SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- A. SOIL PREPARATION**
1. **TEMPORARY STABILIZATION**
- A. SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE APPROPRIATE CONSTRUCTION EQUIPMENT, SUCH AS BACKHOES OR CHISEL PLANS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST BE ROLLED OR TRACKED 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.
- B. APPLY FERTILIZER AND LIME (IF NECESSARY) AS PRESCRIBED ON THE PLAN.
- C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY USING AN OTHER SUITABLE MEANS.
2. **PERMANENT STABILIZATION**
- A. A SOIL TEST IS REQUIRED FOR EVERY FERTILIZER OR LIME APPLICATION. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
- SOIL PH BETWEEN 6.0 TO 7.0.
  - SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
  - SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROMOTE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS LOWGRASS WHICH WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
  - SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
  - SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS. GRADED AREAS MUST BE MAINTAINED IN A TREE AND OPEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCOURED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
- C. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST. USE SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY USING AN OTHER SUITABLE MEANS. LEAN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRICKS, AND REPAIR THE AREA FOR SEED APPLICATION. LOOSENING SOIL BY USING A BACKHOE OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDING 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 3 TO 5 INCHES OF SOIL LOOSE AND FERTILE. SEEDING LOOSENING MAY BE UNNECESSARY ON NEARLY DISTURBED AREAS.

- B. TOPSOILING**
1. TOPSOIL IS SURFACE OVER PREPARED SUBSOIL, PLOD TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF POOR QUALITY WITH LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRAIN SIZE.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICAL 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 H&S.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- THE TEXTURE OF THE SUBSOIL SUBSTANTIALLY MATCHES THAT OF THE TOPSOIL TO BE APPLIED.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR
  - FURNISH CONTAINING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
4. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

5. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIME IS NOT FEASIBLE.

6. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SEEDING, SOIL STABILIZATION AND DESIGN.

7. TOPSOIL SPECIFICATIONS: SOIL TO BE LAYERED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

  - 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 BE FREE OF TOXIC MATERIALS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CONCRETE, STONE, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
  - TOPSOIL MUST BE FREE OF NOxious PLANTS OR WEED SEEDS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SOIL, POISON IVY, THELTER, OR OTHERS AS SPECIFIED.
  - TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN PLACE OF TOPSOIL.

8. TOPSOIL APPLICATION

A. SOIL AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.

B. UNIFORM DISTRIBUTION: TOPSOIL IN A 5 TO 10 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SEEDING OR SOILING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. UNIFORMITY IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE MAINTAINED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

C. 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 INTERFERED TO PROPER GRADING AND SEEDING PREPARATION.

- C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS)**
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT NUTRIENT AND ANALYSIS 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 ANALYSIS.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING, AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PROPER APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY UNLADEN ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE MANUFACTURER'S TRADEMARK AND MANUFACTURE OF THE PRODUCT.
3. LIME MATERIALS MUST BE GROUND LIME (UNBURNED OR BURNED LIME MAY BE SUBSTITUTED EXCEPT WHEN INDICATED) WHICH CONTAINS AT LEAST 50 PERCENT VOLUME OF PURE LIME (CALCIUM HYDROXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 90 TO 100 PERCENT WILL PASS THROUGH A #200 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE UNIFORMLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY USING AN OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (2000-4000 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

## STANDARD STABILIZATION NOTE

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETER DICES, SWALES, DITCHES, PERMETER SLOPES, AND ALL SLOPES OTHER THAN 3:1.
  - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

## DUST CONTROL

- DEFINITION**  
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.
- PURPOSE**  
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.
- CONDITIONS WHERE PRACTICE APPLIES**  
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHEN ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.
- SPECIFICATIONS**
- TEMPORARY METHODS
    - MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE COMPEDED OR TRACKED TO PREVENT BLOWING.
    - VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
    - TILLAGE - TO REDUCE SURFACE WINDING AND CLUSTERS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN FLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TIPPED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
    - IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
    - BARBERS - SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAR FENCES, STRAW BALE BARRIERS AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CONTROLLING SOIL BLOWING, CLUSTERS AND SOIL BLOWING. CURTAINS AND SOIL BLOWING BARBERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN REDUCING DUST.
    - CALCULUS CURTAINS - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED REAPPLICATION.
  - PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOIL SEEDING TYPES OR LARGE SHRUBS WITH APROUD VEGEABLE PROTECTION IF LEFT IN PLACE.
  - TOPSOILING - CONSIDERING WITH LESS EROSION-SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
  - STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

## SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (14 DAYS)
  - NOTIFY "MSS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-297-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-315-1330 AT LEAST 24 HOURS BEFORE STARTING WORK. (7 DAYS)
  - INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, SUPER-SILT FENCE AND SILT FENCE. (2 DAYS)
  - REMOVE EXISTING TEMPORARY SEEDING, IF REQUIRED. (2 DAYS)
  - COMMENCE HOUSE CONSTRUCTION. (3 MONTHS)
  - COMMENCE CONSTRUCTION OF MICRO-BIO-RETENTION. (1 WEEK)
  - FINISH GRASS SITE AND INSTALL PERMANENT SEEDING. (17 DAYS)
  - ALL FINAL GRASSES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS. WHEN ALL CONTROLLING DEVICES TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. (3 DAYS)
- NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A DAILY BASIS.

## TEMPORARY SEEDING NOTES (B-4-4)

- DEFINITION**  
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.
- USE**  
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 THE PERMANENT STABILIZATION PRACTICES ARE REQUIRED.
- CRITERIA**
- SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPLICABLE HARDNESS ZONE (FROM FIGURE B.3) AND OTHER TYPES 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 ALONG AS PRESCRIBED IN SECTION B-4-3.1.8.1 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

## TEMPORARY SEEDING SUMMARY

HARDNESS ZONE (FROM FIGURE B.3):	6B	FERTILIZER RATE (10-20-20)	LIME RATE (SEED MIXTURE FROM TABLE B.3):
SPECIES	APPLICATION RATE (LB./AC.)	SEEDING DATES	SEEDING DEPTHS
BARLEY	96	5/1 - 5/15	1"
OATS	72	5/1 - 5/15	1"
RYE	112	5/1 - 5/15	1"

## PERMANENT SEEDING NOTES (B-4-5)

- A. SEED MIXTURES**
- GENERAL USE
    - SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. OTHER SELECTED MIXTURES, APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY OR THE SUMMARY IS TO BE PLACED ON THE PLAN.
    - ADDITIONAL PLANTING SPECIFICATIONS FOR SPECIALIZED SITES SUCH AS SHOWELLS, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 2 - CRITICAL AREA PLANTING.
    - FOR OTHER SPECIAL PURPOSES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. B. FOR AREAS REQUIRING LOW MAINTENANCE, APPLY URGA FROM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1,000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING, IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
  2. TURFGRASS MIXTURES
    - AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A HIGH TO HIGH LEVEL OF MAINTENANCE.
    - SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. OTHER SELECTED MIXTURES, APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY IS TO BE PLACED ON THE PLAN.
    1. CENTURY BULGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN CENTRAL MARYLAND AND HASTING HIGHLANDS. RECOMMENDED CERTIFIED CENTURY BULGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1,000 SQUARE FEET. CHOOSE A MINIMUM OF THREE CENTURY BULGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
    2. CENTURY BULGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHERE TURF WILL RECEIVE HIGH TO HIGH LEVEL OF MAINTENANCE. RECOMMENDED CERTIFIED CENTURY BULGRASS CULTIVARS/CERTIFIED CENTURY BULGRASS SEEDING RATE: 2 POUNDS PER 1,000 SQUARE FEET. CHOOSE A MINIMUM OF THREE CENTURY BULGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
    3. TALL FESCUE/CENTURY BULGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS REQUIRING A HIGH QUALITY, INTENSIVE MAINTENANCE TURF. RECOMMENDED CERTIFIED CENTURY BULGRASS CULTIVARS: 1.5 TO 2.0 POUNDS PER 1,000 SQUARE FEET. CHOOSE A MINIMUM OF THREE CENTURY BULGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
    4. CENTURY BULGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BULGRASS LAWNS. RECOMMENDED CERTIFIED CENTURY BULGRASS CULTIVARS: 1.5 TO 2.0 POUNDS PER 1,000 SQUARE FEET. CHOOSE A MINIMUM OF THREE CENTURY BULGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
  3. SELECT TURFGRASS SEEDS FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND TURFGRASS VARIETY TRIAL REPORT. TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND ARE AVAILABLE FROM THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SOIL SECTION. PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.
  4. SOIL TESTS OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDNESS ZONES 6B, 7A, 7B); EASTERN MD: MARCH 15 TO JUNE 1, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES 6B, 7A, 7B); SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES 7A, 7B).
  5. TALL FESCUE TO BE SEEDING BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES. LEAVES AND SWEET THE AREAS TO PREPARE A PROPER SEEDING. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDING MUST BE IN SUCH CONDITION THAT FUTURE MOISTURE OF GRASSES WILL POSE NO DIFFICULTY.
  6. SOIL AMENDMENT IS NECESSARY, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH. USE 1 1/2 TO 2 INCHES DEEP 3:1 TO 4:1 LIME DEPENDING ON SOIL TESTS. UNTIL THEY ARE FULLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDING ARE MADE LATE IN THE PLANTING SEASON, IN ANOMALOUSLY DRY OR HOT SEASONS, OR ON ADVISORY SITES.

**PERMANENT SEEDING SUMMARY**

HARDNESS ZONE (FROM FIGURE B.3):	6B	FERTILIZER RATE (10-20-20)	LIME RATE (SEED MIXTURE FROM TABLE B.3):
NO. SPECIES	APPLICATION RATE (LB./AC.)	SEEDING DATES	SEEDING DEPTHS
1	96	5/1 - 5/15	1"
2	72	5/1 - 5/15	1"
3	112	5/1 - 5/15	1"

- B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).**
1. **GENERAL SPECIFICATIONS**
- A CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE SOIL PROGRAM AND INSPECTOR.
  - SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS TO 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNWORN ENDS WILL NOT BE ACCEPTABLE.
  - STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND BEYOND THEIR SIZE AND SHAPE WHEN SUPPORTED VERTICALLY BY A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. SOD MUST BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
  - SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
2. **SOD INSTALLATION**
- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SOD, IMMEDIATELY PRIOR TO LAYING THE SOD.
  - LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND THIRTY FIVE INCHES FROM EACH OTHER. STRIKE LATERAL JOINTS TO PROMOTE GOOD UNIFORM GROWTH AND ORDER. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT HOLES WHICH WOULD CAUSE AIR DRYING OF THE SOILS.
  - WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SOIL AND TAMP. FEG OR OTHERWISE SEED THE SOD TO PREVENT SURFACE SOIL LOSS. ENSURE SOIL CONTACT EXISTS BETWEEN SOD SEEDS AND THE UNDERLYING SOIL SURFACE.
  - WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDES 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 HOURS.
3. **SOD MAINTENANCE**
- IN THE ABSENCE OF ADEQUATE RAINFALL, WATER ONLY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOIL DURING THE HEAT OF THE DAY TO PREVENT MILDING.
  - AFTER THE FIRST WEEK, SOIL WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. DO NOT ROW UNTIL THE SOD IS FULLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING, OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

## HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

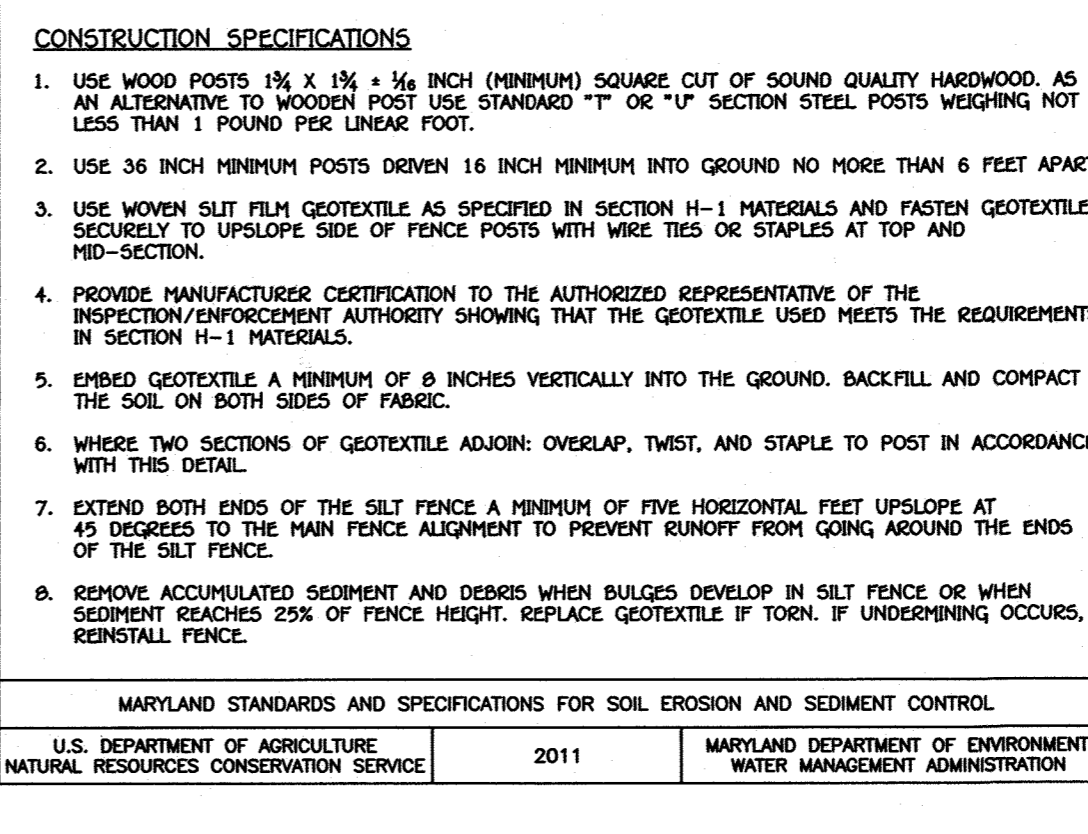
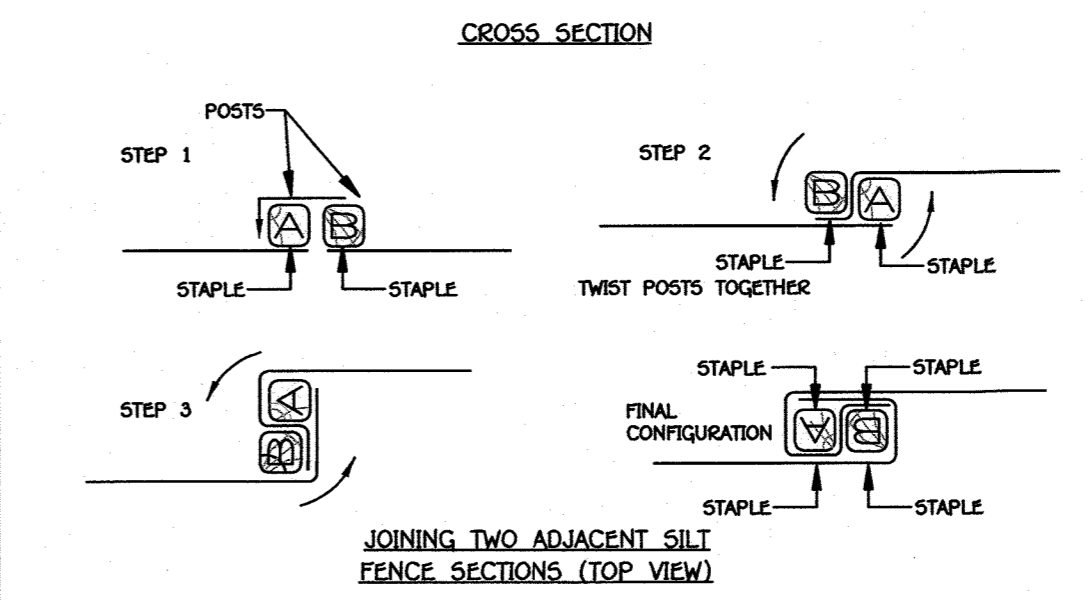
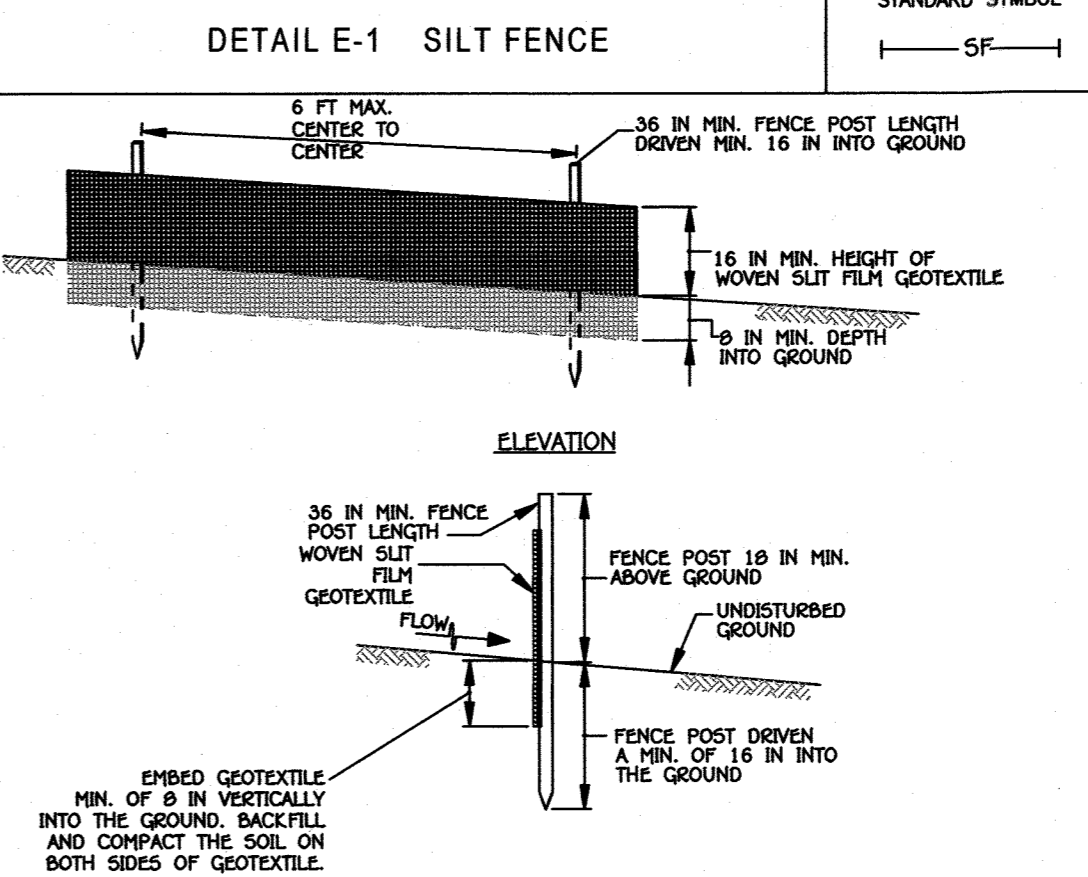
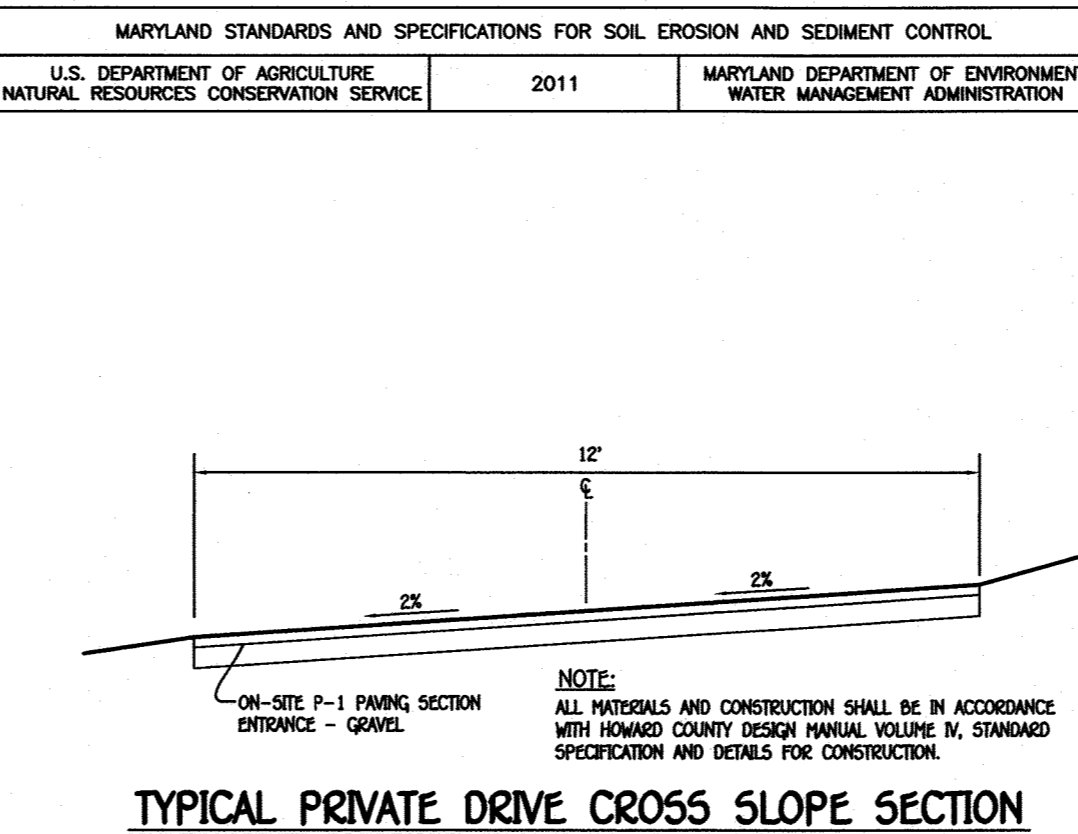
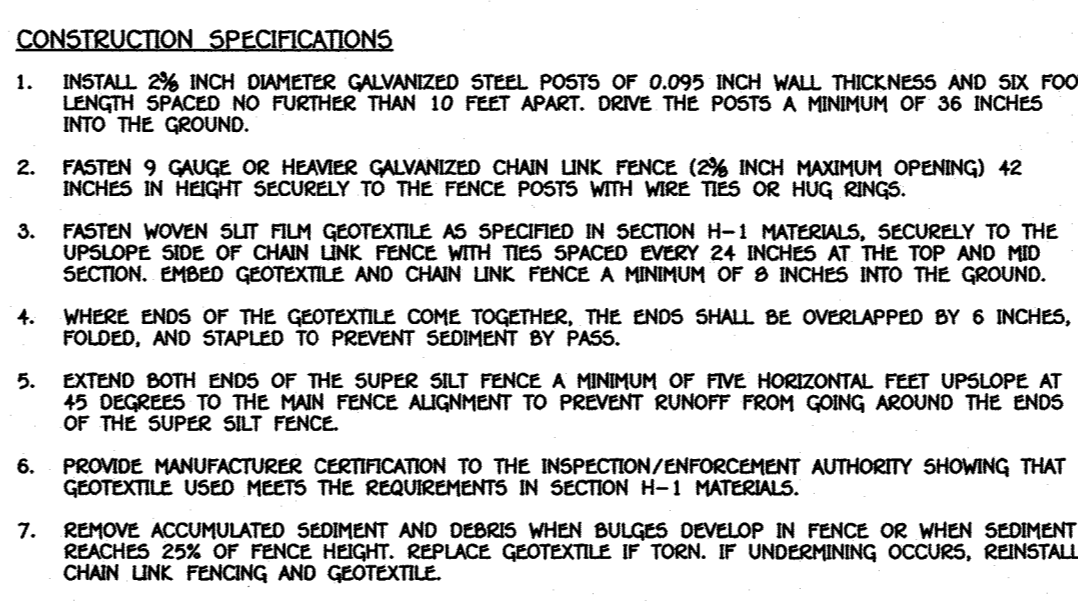
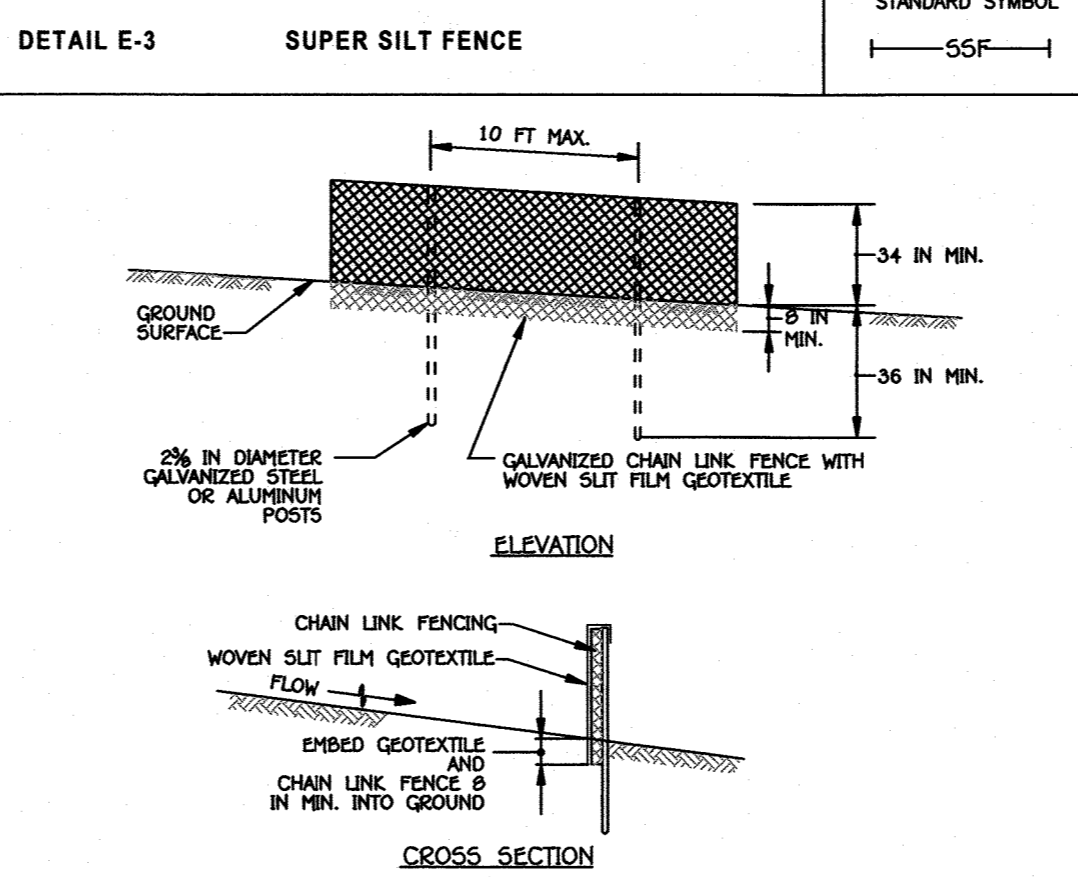
1. PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-315-1330 AFTER THE FUTURE LOTS AND PROTECTED AREAS ARE MAILED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOURS NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
  - PRIOR TO THE START OF EARTH DISTURBANCE.
  - UPON COMPLETION OF THE INSTALLATION OF PERMETER BARRIERS AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
  - PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
2. 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.
3. ALL VEGETATIVE 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 THEREOF.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
6. 2:1 TEMPORARY SEEDING (SEC. B-4-4-5), TEMPORARY SEEDING (SEC. B-4-4-5), AND MULCHING (SEC. B-4-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BEFORE THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCORPORATE STABILIZATION (SEC. B-4-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH 3:1 OR FLATTER SLOPES. STOCKPILES (SEC. B-4-4-6) IN EXCESS OF 20 FT. MUST BE BARRICADED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HEAVY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATING (SEC. B-4-4-6).
7. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATING CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
8. **SITE ANALYSIS:**

GENERAL USE SITE:	0.43 ACRES
AREA DISTURBED:	0.22 ACRES
AREA TO BE ROOFED OR PAVED:	0.09 ACRES
AREA TO BE VEGETATIVELY STABILIZED:	0.14 ACRES
TOTAL CUT:	298 CU. YDS.
TOTAL FILL:	354 CU. YDS.
9. OFFSITE WASTE/BORROW AREA LOCATION: N/A.
10. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
11. ADDITIONAL PLANTING SPECIFICATIONS FOR SPECIALIZED SITES SUCH AS SHOWELLS, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 2 - CRITICAL AREA PLANTING.
12. FOR OTHER SPECIAL PURPOSES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. B. FOR AREAS REQUIRING LOW MAINTENANCE, APPLY URGA FROM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1,000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING, IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
13. **INSPECTION TYPE (ROUTINE, PRE-STEAM EVENT, DURING RAIN EVENT)**

NAME AND TITLE OF INSPECTOR:	
WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS THE AMOUNT OF LAST RECEIVED PRECIPITATION):	
BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE AND/OR CURRENT ACTIVITIES):	
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:	
MAINTENANCE/SAMPLING:	
OTHER INSPECTION ITEMS AS REQUESTED BY THE GENERAL PERMIT FOR STEADYSTATE ASSOCIATED WITH CONSTRUCTION ACTIVITIES (IMPACT, MUD):	
14. TURFGRASS FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE FEET LENGTHS OF THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
15. ALL MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCESSING. ANY CHANGES TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCESSING. REVISIONS MAY ALLOWED BY THE HSCD PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
16. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MINIMUM AREA OF 30 ACRES 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 CONSECUTIVELY MAY BE DISTURBED AT A GIVEN TIME.
17. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES SHOULD BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASH/WATER STRUCTURE.
18. WASH WATER MUST BE STORED IN A SEDIMENT BASIN OR OTHER APPROVED WASH/WATER STRUCTURE UNTIL FURTHER RESTRICTION UNTIL FINAL GRADE.
19. ALL SILT AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE INDICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPWARD BY 2" IN ELEVATION.
20. STEADY STATE PERMITS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (UNLESS OTHERWISE SPECIFIED):
 

USE AND IRRIGATION - JUNE 15 - JUNE 15
USE AND IRRIGATION - APRIL 30 - APRIL 30
USE AND IRRIGATION - MARCH 31 - MARCH 31
21. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PICTURES SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

**NOTE:**  
FOR STANDARDS AND SPECIFICATION FOR SEED AND MULCHING (SECTION B-4-3) AND PLANT HARDNESS ZONES DELINEATE AREAS WHERE A SPECIES CAN BE SUCCESSFULLY ESTABLISHED BASED ON AVERAGE ANNUAL MINIMUM TEMPERATURES (FIGURE B.3) PLEASE REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.



**CONSTRUCTION SPECIFICATIONS**

1. 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.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPPER 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 6 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE CAME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. 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.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

**CONSTRUCTION SPECIFICATIONS**

1. USE WOOD POSTS 1 1/2 X 1 1/2 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 SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE UNLESS 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 PER SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 6 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN, OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE 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 SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. IF UNDERMINING OCCURS, REINSTALL FENCE.

**MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.**

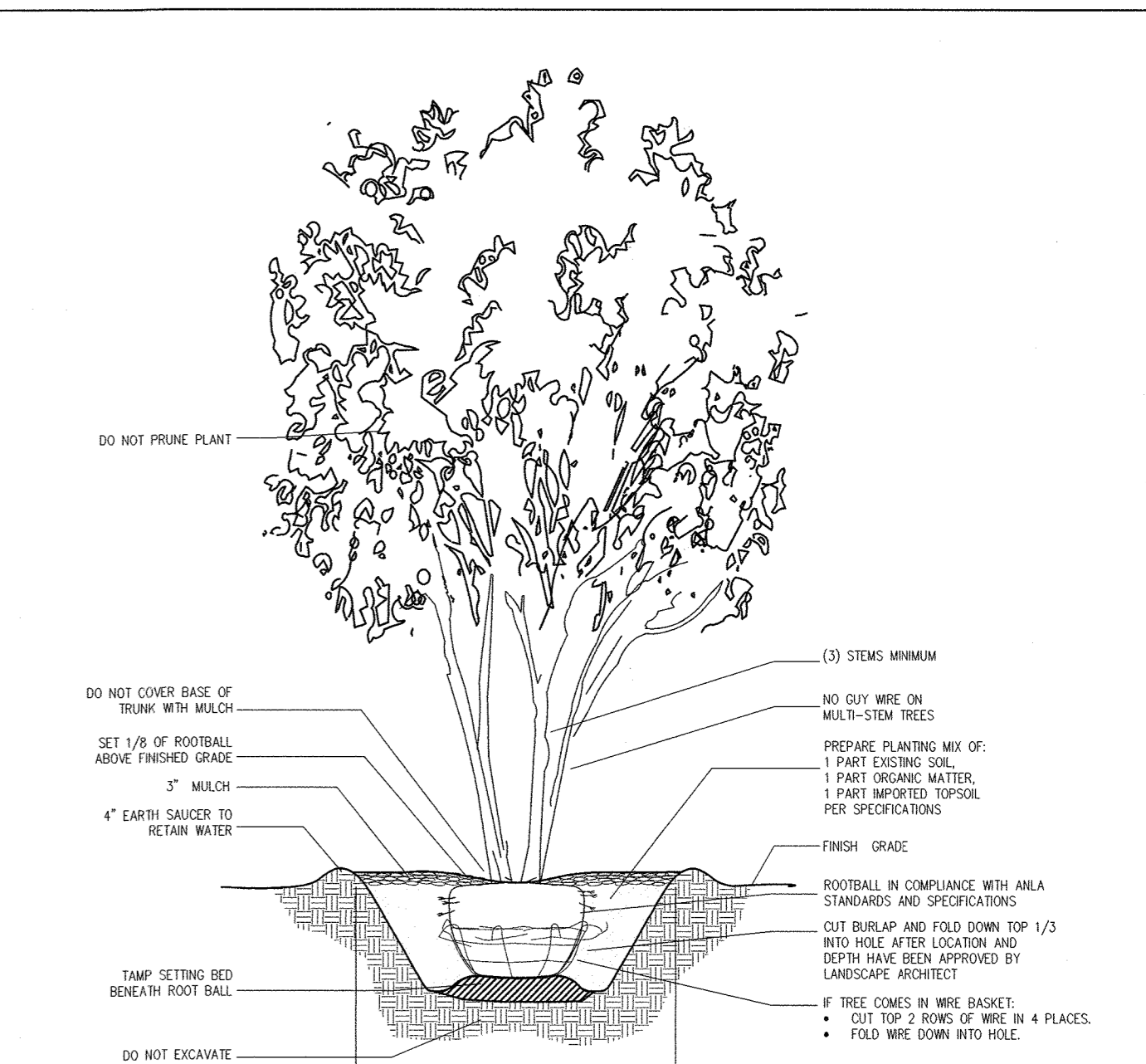
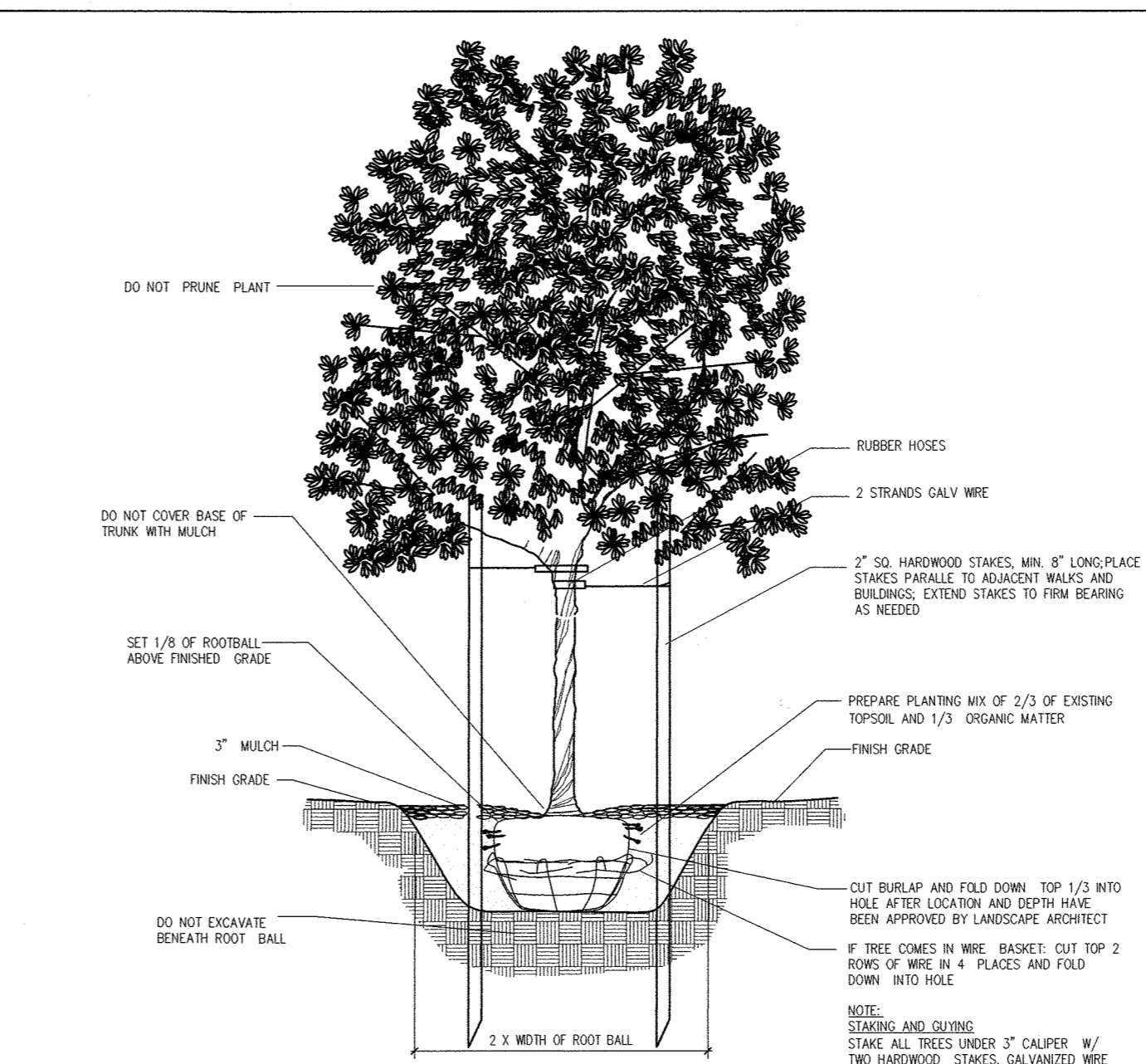
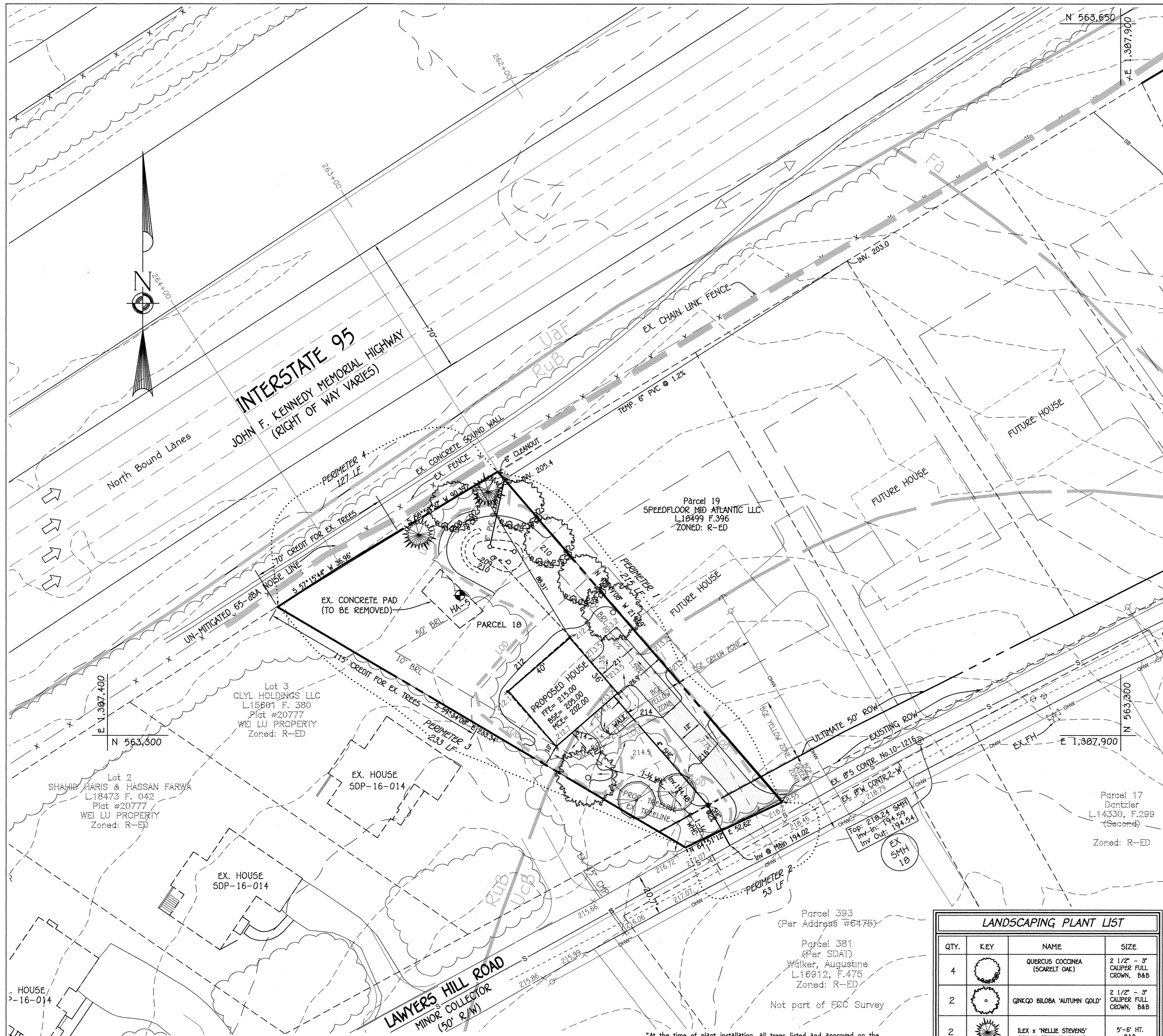
U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

## B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

- DEFINITION**  
A MOUND OR PILE OF SOIL, PROTECTED BY APPROP



DECIDUOUS TREE - TYPICAL PLANTING DETAIL

MULTISTEM TREE - TYPICAL PLANTING DETAIL

PLANTING SPECIFICATIONS

PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.

ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSEYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EDGES, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL AGENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.

BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.

ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.

POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE.

PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED.

A MINIMUM OF 20" SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND TREE.

GENERAL NOTES APPLICABLE TO ALL LANDSCAPING DETAILS:

1. HOSE FOR USE AROUND TREE TRUNKS SHALL BE METEOROLOGICAL.
2. TREE SUPPORTS INCLUDING WIRES, STAKES AND HOSE SHALL BE REMOVED AFTER 1 YEAR TO ALLOW TREES TO SWAY.
3. FOLD DOWN OR CUT OFF HALF OF WIRE BASKET TO BELOW SOIL LEVEL.
4. PIPE DIAMETER SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL.
5. ROOT BALLS SHALL HAVE 1/8" OF HEIGHT ABOVE GRADE.
6. SOIL BEINGS SHALL BE REMOVED AFTER 1 YEAR.
7. MULCH SHALL NOT BE DIRECTLY PLACED AGAINST TREE TRUNKS OR PLANT STEMS.
8. PRUNING PATTERNS SHALL BE AS FOLLOWS:
  - PRUNE TO REMOVE BROKEN, DEAD AND DAMAGED BRANCHES. ON TREES WITH DOMINANT LEADERS, REMOVE COMPETING SECONDARY LEADERS. ALL PRUNING SHALL BE AS APPROVED BY THE ENGINEER.
  - PRUNE OUT ALL DEAD, BROKEN, RUBBER OR CROSSING BRANCHES. RETAIN NORMAL TREE FORM.
  - REMOVE WIRE AND HOSE AFTER 1 YEAR.
  - REMOVE STAKES AFTER 1 YEAR.
  - FOLD DOWN OR CUT OFF TOP HALF OF WIRE BASKET TO BELOW SOIL LEVEL.
  - 1/8" OF ROOT BALL HEIGHT SHALL BE PLACED ABOVE FINISHED GRADE.
  - 3" MULCH DEPTH.
  - SOIL BERM - REMOVE AFTER 1 YEAR.
  - FINISHED GRADE.
  - UNDISTURBED SOIL.
  - EQUAL TO ROOT BALL.
  - 3 X ROOT BALL.
9. SOIL ROOT COLLAR HEIGHT DETAIL FOR PLANTING IN WELL-DRAINED SOIL SHALL NOT BE USED. ONLY ROOT HEIGHT DETAILS FOR COMPACTED SOIL OR POORLY DRAINED SOIL SHALL BE USED.

QTY.	KEY	NAME	SIZE
4		QUERCUS COCCINEA (SCARLET OAK)	2 1/2" - 3" CALIPER FULL CROWN, B&B
2		GINKGO BILOBA 'AUTUMN GOLD'	2 1/2" - 3" CALIPER FULL CROWN, B&B
2		ILEX x NELLIE STEVENS' (NELLY STEVENS HOLLY)	5'-6" HT. B&B
2		KOELERIA PANICULATA (GOLDEN RAIN TREE)	5'-6" HT. B&B

TOTAL: 6 SHADE TREES, 2 EVERGREEN TREES, 2 ORNAMENTAL TREES

LANDSCAPE SURETY NOTE: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY IN THE AMOUNT OF \$2,000.00 FOR 6 SHADE TREES, 2 ORNAMENTAL TREES, AND 2 EVERGREEN TREES HAS BEEN POSTED AS PART OF THE GRADING PERMIT.

PERIMETER	SCHEDULE A PERIMETER LANDSCAPE EDGE			
	P1	P2	P3	P4
CATEGORY	Adjacent to Perimeter Properties	5FD Front to roadway	Adjacent to Perimeter Properties	5FD Rear to roadway
LANDSCAPE TYPE	A	NONE	A	B
LINEAR FEET OF PERIMETER	215 LF	50 LF	233 LF	127 LF
TREES FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF TREATED)	NO	-	YES, 115 LF	YES, 70 LF
CREDIT FOR WALL, FENCE OR BERR (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	NO	-	NO	NO
NUMBER OF PLANTS REQUIRED				
SHADE TREES	4	-	2	1
EVERGREEN TREES	-	-	-	2
SHRUBS	-	-	-	-
NUMBER OF PLANTS PROVIDED				
SHADE TREES	4	-	1	1
SMALL DECIDUOUS / ORNAMENTAL	-	-	2 (2:1)	-
EVERGREEN TREES	-	-	-	2
SHRUBS	-	-	-	-

\* SUBSTITUTIONS USED FOR SMALLER SPECIES NEAR OVERHEAD POWER LINES

LANDSCAPE DEVELOPER'S CERTIFICATE

I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a letter of landscape installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

Name: *[Signature]* Date: 5/25/21

"The Owner, tenants and/or their agents shall be responsible for maintenance of the required perimeter landscaping. 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 the other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced."

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461 - 2000

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development Date: 9/2/21

Chief, Development Engineering Division Date: 9/4/21

Director of Department of Planning and Zoning Date: 9-21-21

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

*[Signature]* 6/10/21 DATE

**OWNER/DEVELOPER**

SPEEDFLOOR MID-ATLANTIC LLC  
 C/O TIMOTHY HACHMAN  
 7116 JOHN CALVERT CT.  
 ELK RIDGE, MARYLAND 21075  
 443-506-6188

NO.	REVISION	DATE

**LANDSCAPE PLAN**

**ARRINGTON OVERLOOK**  
 6490 LAWYERS HILL ROAD

TAX MAP NO.: 30 GRID NO.: 02 PARCEL NO.: 10  
 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: APRIL, 2021  
 SHEET 4 OF 5

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L18499 F.396	N/A	R-ED	30	1	601201

SDP-20-062

