<u>SHEET INDEX</u>

| SHEET NO. | TITLE |
|-----------|--|
| 1 | COVER SHEET |
| 2 | SUPPLEMENTAL PLAN (GRADING, LANDSCAPE & FOREST CON.) |
| 3 | DRAINAGE AREA MAP, STORM DRAIN PROFILE AND DETAILS |
| 4 | SEDIMENT CONTROL NOTES AND DETAILS |

| 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. Digitally signed by Samer Alomer, c-US, o-Midenberg Boender & associates, email-salomer (Bmba-eng.com) Reason: I am approving this document 12/22/2021 SIGNATURE OF ENGINEER DATE | | | | |
|--|--|--|--|---------------------|
| SAMER A. ALOMER, P.E. PRINTED NAME OF ENGINEER | | | | |
| DEVELOPERS CERTIFICATE I 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 ATTENDANCE TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT HOMARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION. 12/22/2021 SIGNATURE OF DEVELOPER DATE DONALD R. REUWER Jr. PRINTED NAME OF DEVELOPER | DEVELOPI | ER/OWNER | <u>DEVELOPER/OWNER</u> | |
| THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Docusigned by: Olexander Bratchie 1/27/2022 HOWARD SOIL************************************ | TRA LAND DESIGN 8318 FORREST ST ELLICOTT CI PHONE 41 | ACT 2 & DEVELOPMENT TREET – SUITE 200 TY, MD 21043 0–707–7054 | TRACT 1 HOWARD LAND INVESTORS 8318 FORREST STREET – SUI ELLICOTT CITY, MD 2104 PHONE 410-707-7054 | LLC. TE 200 3 |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING DocuSigned by: Pluil Humpson For: 1/27/2022 CHIEF, DEVELOPMENT DATE DocuSigned by: 1/26/2022 CHIEF, DHVISHOMP40FA2ERAND. DEVELOPMENT DATE | OF. MAA MAA R. O. S. | I HEREBY CERTIFY PREPARED OR APP A DULY LICENSED UNDER THE LAWS LICENSE NO. 26859 Samer Alomer SAMER A. ALOMER | THAT THESE DOCUMENTS WERE ROVED BY ME AND THAT I AM PROFESSIONAL ENGINEER OF THE STATE OF MARYLAND, 9, EXP DATE 08/08/23 pred by Samer Adomer and approving this 12/22/2021 P.E. DATE: | |

ENGINEER'S CERTIFICATE

PIERCE PROPERTY LOT 1, OPEN SPACE LOT 2 AND NON-BUILDABLE BULK PARCELS A & B FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



 $\frac{VICINITY}{SCALE: 1''=1000'} MAP \qquad adc map: 39, grid f-4$

Ш প্র A PARCELS \geq ERT. RO BUIL SH. \mathbb{Z} NO Γ Ο **N**AN **N** $|\mathcal{L}|_{\sim}$ HO AC $\mathbf{\hat{N}}$ ΕN Д 0 $\overline{}$ C) 0 S П S Z G *& R* ILDENBEI OENDER ST 6 MM OF 4

GENERAL NOTES:

- SUBJECT PROPERTY ZONED "R-20" PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
 ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
- 3. <u>PROJECT BACKGROUND</u> : ADDRESS: 10504A SCAGGSVILLE ROAD, LAUREL MD 20723 LOCATION: TAX MAP: 46 - PARCEL : 277 TRACT 1 & TRACT 2- GRID 12
- ELECTION DISTRICT : FOURTH . DEED REFERENCE: 3962/387, 8581/224
- AREA: 3.94± ACRES
- PREVIOUS DPZ FILE NUMBERS : ECP-19-056, WP-20-013, WP-21-145, SP-20-004 PROPOSED USE FOR SITE : RESIDENTIAL TOTAL NUMBER OF UNITS : 1
- 1 BUILDABLE LOT, 2 NON-BUILDABLE BULK PARCELS AND 1 OPEN SPACE LOT TYPE OF PROPOSED UNIT : SFD
- EXISTING TOPOGRAPHIC INFORMATION IS BASED ON AERIAL TOPOGRAPHIC SURVEY BY WINGS AERIAL MAPPING CO., INC. DATED APRIL 10, 2006.
- BOUNDARY INFORMATION IS BASED ON FIELD RUN MONUMENTED SURVEY BY MILDENBERG, BOENDER & ASSOC., INC. DATED APRIL 2019.
 COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY
- GEODETIC CONTROL STATIONS NO : 46FA & 47DB . No. 46FA N 535,140.866 E 1,346,962.690 EL. 403.650
- No. 46FA N 535,140.866 E 1,346,962.690 EL. 403.650 No. 47DB N 534,316.917 E 1,348,131.250 EL. 398.560
- 7. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. WATER AND SEWER ARE PUBLIC. EXTENSION OF WATER AND SEWER CONTRACT #24-1233-D WILL BE PROVIDED.
- 8. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). DEVELOPMENT OF CONSTRUCTION OF THESE LOTS MUST COMPLY WITH THE SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION, OR BUILDING/GRADING PERMIT.
- 9. FOREST STAND AND WETLAND DELINEATIONS ARE BASED ON A STUDY PERFORMED BY ECO-SCIENCE PROFESSIONALS ON OR ABOUT APRIL, 2020.
- NO FLOODPLAIN EXIST ON SITE.
 NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS ADJACENT TO LANDING ROAD, WHICH IS A DESIGNATED SCENIC ROAD. THE EXISTING STRUCTURE ON THE PROPERTY IS NOT LISTED ON THE HISTORIC REGISTRY BUT IS OLDER THAN 50 YEARS. THE DPZ RESOURCE CONSERVATION DISTRICT DETERMINED THAT THE SITE DOES NOT REQUIRE HDC APPROVAL PRIOR TO DEMOLITION.
- SOIL DELINEATION IS BASED ON HOWARD COUNTY SOIL SURVEY MAP.
 THERE IS A DWELLING ON LOT 1 TO REMAIN). NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS. THERE IS AN EXISTING GARAGE ON BULK PARCEL A TO BE REMOVED. EXISTING FOUNDATIONS WILL REMAIN AT THIS STAGE. FOUNDATIONS WILL BE REMOVED AT THE SDP STAGE FOR BUILDING THE HOUSE ON FUTURE LOT 4.
- SLOPES GREATER THAN 25% EXIST ON SITE.
 NO BURIAL GROUNDS OR CEMETERIES EXIST ON SITE.
- 16. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FULFILLED BY ON-SITE RETENTION OF 1.63 ACRES. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- 17. LANDSCAPING FOR THIS SUBDIVISION HAS BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR 14 SHADE AND 21 EVERGREEN TREES FOR PERIMETER LANDSCAPING IN THE AMOUNT OF \$7,350.00 AND 12 SHADE TREES PROVIDED AS A CONDITION OF THE APPROVAL OF WP-20-013 IN THE AMOUNT OF \$3,600.00 FOR A TOTAL OF \$10,950.00 WILL BE POSTED WITH THE DEVELOPERS AGREEMENT.
- STORMWATER MANAGEMENT IS PROVIDED BY M-6 MICRO-BIORETENTION FACILITIES IN ACCORDANCE WITH THE 2007 MARYLAND STORMWATER DESIGN MANUAL. ALL SWM FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
 A PRIVATE RANGE OF ADDRESS SIGN SHALL BE FABRICATED AND INSTALLED BY THE HOWARD COUNTY
- BUREAU OF HIGHWAYS AT THE DEVELOPER'S / OWNER'S EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATE. 20. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 RESIDENTIAL INFILL
- 20. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 10.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSE TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
 22. THIS PROJECT IS EXEMPT FROM MIHU. IT IS NOT CREATING ANY ADDITIONAL UNITS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
 THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF
- ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 25. A COMMUNITY MEETING FOR THIS PROJECT WAS HELD ON APRIL 16, 2019 AT 6:00 PM AT THE SAVAGE LIBRARY.
 26. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE
- PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM LOT AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY. 27. THIS PROJECT IS SUBJECT TO ALTERNATIVE COMPLIANCE WP-20-013 OF SECTION 16.120(C)(2),
- 16.121.(a)(2) AND 16.1205(a)(3). ON APRIL 2, 2020 AND PURSUANT TO SECTION 16.1216, THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING, DIRECTOR OF THE DEPARTMENT OF RECREATION AND PARKS AND ADMINISTRATOR OF THE OFFICE OF COMMUNITY SUSTAINABILITY CONSIDERED AND APPROVED YOUR REQUEST FOR A VARIANCE WITH RESPECT TO SECTION 16.1205(A)(3) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO REMOVE 9 SPECIMEN TREES IN ORDER TO PROVIDE ACCESS TO AND DEVELOP THE PROPERTY WITH 6 SINGLE FAMILY DETACHED LOTS AND AN OPEN SPACE LOT TO BE DEDICATED TO HOWARD COUNTY. ON APRIL 20, 2020, AND PURSUANT TO SECTION 16.104, THE DIRECTOR OF PLANNING AND ZONING CONSIDERED AND APPROVED YOUR REQUEST FOR ALTERNATIVE COMPLIANCE WITH RESPECT TO SECTIONS 16.121(A)(2)** AND SECTION16.120(C)(2) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO REDUCE THE MINIMUM LOT SIZE TO 14,000 SQUARE FEET AND DEDICATE 30% OF THE GROSS ACREAGE (1.78 ACRES) AS OPEN SPACE TO HOWARD COUNTY CONTAINING A STREAM, WETLANDS AND STEEP SLOPES AND TO ALLOW THE EXISTING HOUSE TO CONTINUE ACCESS THROUGH PARCEL 36 TO SCAGGSVILLE ROAD INSTEAD OF FROM ITS PUBLIC ROAD FRONTAGE ONTO LESLIE DRIVE.APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 27.1. INCLUDE ALTERNATIVE COMPLIANCE APPLICATION FILE NUMBER WP-20-013, DATE OF APPROVAL
- AND CONDITIONS OF APPROVAL ON ALL RELATED PLAN SUBMISSIONS.
 27.2. APPROVAL OF RELIEF OF SECTION 16.120(C)(2) ONLY APPLIES TO LOT 6 AND THE EXISTING HOUSE. INCLUDE A GENERAL NOTE ON THE FINAL PLAN AND PLAT THAT MANDATES SHOULD THE EXISTING HOUSE BE DEMOLISHED OR DESTROYED, AND A NEW HOUSE BUILT, THE ACCESS THROUGH PARCEL 36 EXPIRES AND THE LOT SHALL GAIN ACCESS TO LESLIE DRIVE VIA THE SHARED DRIVEWAY. INCLUDE THAT A PLAT OF REVISION MAY BE NEEDED TO CHANGE THE HOUSE ORIENTATION AND SETBACKS.
- 27.3. THE ENVIRONMENTAL FEATURES MUST BE WHOLLY CONTAINED WITHIN AN OPEN SPACE LOT THAT IS DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.
 27.4. ALL REMOVED SPECIMEN TREES SHALL BE REPLACED WITH NATIVE TREES OF 3" CALIPER TREES AT A 2:1 RATIO. SHOW THE REPLACEMENT TREES WITH A NOTE REFERENCING WP-20-013 ON FUTURE DI AN SUDMISSIONS
- PLAN SUBMISSIONS. 27.5. ALL FUTURE PLAN SUBMISSIONS SHALL CLEARLY LABEL THE REMAINING SPECIMEN TREES AND INCLUDE A NOTE REQUIRING THE SPECIMEN TREES BE MAINTAINED IN PERPETUITY. FURTHER, SHOULD A SPECIMEN TREE PERISH, REPLACEMENT TREES OF 4" CALIPER OR GREATER SHALL BE PLANTED AT 2:1 AS MITIGATION AND A REDLINE TO THE APPROVED SDP SHALL BE PROCESSED TO REFLECT THE
- CHANGES.
 27.6. INCLUDE THE TREE PRESERVATION METHODS OUTLINED IN THE FEBRUARY 16, 2020
 RECOMMENDATIONS LETTER FROM T.D. MAYER CONSULTING ON THE SITE DEVELOPMENT PLANS AND CONSTRUCTION DRAWINGS.
 27.7. THE SEQUENCE OF OPERATION SHALL INCLUDE CONTACTING DPZ STAFF TO BE PRESENT TO OBSERVE
- 27.7. THE SEQUENCE OF OPERATION SHALL INCLUDE CONTACTING DPZ STAFF TO BE PRESENT TO OBSERVE AND VERIFY ROOT PRUNING, DEEP ROOT FERTILIZATION, AND POST CONSTRUCTION TREE PROTECTIONS
 28. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
- A) WIDTH 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
 B) SURFACE 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2").
 C) GEOMETRY MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. OF 45 FOOT TURNING RADIUS.
 D) STRUCTURES (CULVERT/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
- E) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD PLAIN WITH NO MORE THAN 1 FOOT OF DEPTH OVER DRIVEWAY SURFACE.
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- 28. THIS PROJECT IS SUBJECT TO ALTERNATIVE COMPLIANCE WP-21-145 OF SECTION 16.120(C)(2). A REQUEST TO ALLOW THE SUBDIVISION OF PARCEL 277 WITHOUT INCLUDING PARCEL 36 IN THE SUBDIVISION. PARCELS 277 AND 36 WERE CREATED BY DEED INSTEAD OF GOING THROUGH THE SUBDIVISION PROCESS TO ULTIMATELY RECORD A PLAT. IT WAS APPROVED BY THE DIRECTOR OF PLANNING AND ZONING, ON AUGUST 12, 2021 APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
- 28.1 INCLUDE FILE NUMBER WP-21-145, SECTIONS, SUMMARY OF REQUEST, DECISION, DATE OF DECISION AND CONDITIONS OF APPROVAL ON ALL SUBSEQUENT PLAN SUBMISSIONS FOR THE SUBDIVISION FINAL PLANS AND SITE DEVELOPMENT PLANS.
 28.2 APPROVAL OF THIS ALTERNATIVE COMPLIANCE IS FOR THE FINAL PLANS DEVELOPING PIERCE
- PROPERTY PER THE APPROVED SP-20-004 ONLY. APPROVAL IS ONLY VALID AS LONG AS THE APPROVED SP-20-004 AND RELATED FINAL PLANS ARE BEING PROCESSED. SHOULD ANY OF THE PLANS BECOME VOID FOR FAILURE TO MEET MILESTONES OR WITHDRAWN BY THE APPLICANT, WP-21-145 WILL ALSO BE VOID 28.3 THE APPLICANT MUST SEND A COPY OF THIS APPROVAL TO THE OWNERS OF PARCEL 36 VIA
- CERTIFIED MAIL, IN ORDER TO NOTIFY THEM OF THIS ACTION. 29. THIS PROJECT IS SUBJECT TO DESIGN MANUAL WAIVER TO STANDARD R-5.05 OF DESIGN MANUAL VOLUME III, APPROVED ON JULY 28, 2020. CONDITIONS OF APPROVAL ARE: 29.1. DRIVEWAY SHOULD BE CENTERED AT THE TEE TURN AROUND.
- 29.2. TEE TURN AROUND TO BE UPGRADED TO MATCH DETAIL R-5.05 29.3. A "NO PARKING IN TURN AROUND AREA" TO BE ADDED A RANGE OF ADDRESSES CHART TO BE
- ADDED ALONG WITH THE SUBDIVISION OF BULK PARCELS A & B. 29.4. IMPROVEMENTS MUST BE MADE WITHIN THE PUBLIC RIGHT OF WAY TO APPROPRIATELY CAPTURE AND CONVEY RUNOFF TO ELIMINATE DISCHARGE FROM THE PUBLIC ROAD INTO THE PRIVATE DRIVEWAY.
- 30. DPZ STAFF TO BE CONTACTED WITH 3 DAY NOTICE TO: 30.1. TO ATTEND PRE CONSTRUCTION MEETING.
- 30.2. AFTER INSTALLATION OF TPF.
 30.3. AFTER CONSTRUCTION IS COMPLETED TO DOCUMENT SPECIMEN TREE CONDITION.

| <u>SOIL DESCRIPTION:</u> | | | | | | | |
|--------------------------|--------|--|----------|---------|-----------------|--|--|
| SYMBOL | RATING | NAME | K FACTOR | MAP NO. | COMMENTS | | |
| MaD | (B) | MANOR LOAM 15-25% SLOPES, | .24 | 46 | HIGHLY ERODABLE | | |
| GmC | (C) | GLENVILLE SILT LOAM 8-15% SLOPES | .37 | 46 | HIGHLY ERODABLE | | |
| Fa | (B) | FALLSINGTON SANDY LOAM 0-2% SLOPES | .20 | 46 | | | |
| UcB | (D) | URBAN LAND-CHILLUM-BELTSVILLE COMPLEX 0-5% SLOPES, MODERATELY ERODED. | .37 | 46 | | | |





| EES | 17 SHADE TREES 21 EVERGREEN TREES 0 SHRUBS |
|--------------|--|
| EES TREES | 14 SHADE TREES 21 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS |

| KEY | SPECIES | SIZE | CRZ | COMMENTS |
|-------|--------------|------|-------|---|
| ST-01 | TULIP POPLAR | 42.5 | 63.75 | FAIR CONDITION |
| ST-02 | TULIP POPLAR | 44.5 | 66.75 | MULTIPLE STEMS - HOLLOW - TO BE REMOVED |
| ST-03 | WHITE OAK | 32 | 48 | FAIR CONDITION |
| ST-04 | TULIP POPLAR | 31.5 | 47.25 | FAIR CONDITION |
| ST-05 | RED OAK | 33 | 49.5 | FAIR CONDITION |
| ST-06 | TULIP POPLAR | 32 | 48 | FAIR CONDITION - TO BE REMOVED |
| ST-07 | RED OAK | 30.5 | 45.75 | FAIR CONDITION - TO BE REMOVED |
| ST-08 | CHESTNUT OAK | 34.5 | 51.75 | VERY POOR CONDITION - SEVERE ROT AT BASE - TO B |
| ST-09 | RED OAK | 49.5 | 74.25 | POOR, 2ND TRUNK DEAD TO BE REMOVED |
| ST-10 | CHESTNUT OAK | 34,5 | 51.75 | POOR, 2ND TRUNK DEAD TO BE REMOVED |
| ST-11 | CHESTNUT OAK | 56.5 | 84.75 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-12 | CHESTNUT OAK | 31 | 46.5 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-13 | CHESTNUT OAK | 48.5 | 72.75 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-14 | CHESTNUT OAK | 30 | 45 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-15 | CHESTNUT OAK | 46.5 | 69.75 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-16 | CHESTNUT OAK | 33 | 49.5 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-17 | TULIP POPLAR | 37 | 55.5 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| ST-18 | TULIP POPLAR | 30 | 45 | PRESERVED IN FOREST CONSERVATION ESMNT ON OPEN |
| | | | | |



| STANDARD SEDIMENT CONTROL NOTES | | FOR SOIL | (B–4–2) STANDA PREPARATION, 1 | RDS AND OPSOILIN |) SPECIFICATIO IG, AND SOIL A | NS MENDMENTS | |
|--|---|--|---|---|---|---|---|
| WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AN PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO C MUST BE GIVEN AT THE FOLLOWING STAGES: A PRIOR TO THE START OF FARTH DISTURBANCE | ND THE PRO | DCESS OF PREP SE | ARING THE SOILS TO SU | ISTAIN ADEQU | ATE VEGETATIVE STABI | LIZATION. | I T E |
| B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER CRADING UNIT | S, <u>CONDIT</u> | VIDE A SUITABL | E SOIL MEDIUM FOR VEC (RACTICE APPLIES) ABILIZATION IS TO BE ES | TABLISHED. | WIH. | | (- - |
| D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL TH INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDER DEPUNTS CHAIL BE DEFENDED TO ENSIVE COOPDINATION AND TO AVOID CONFLICTS WITH TH | IIS <u>A. SOIL</u> AL <u>1. TEMP</u> | CRITERIA S A. SOIL PREPARATION L 1. TEMPORARY STABILIZATION | | | | | |
| PLANI, PLAN, 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO TH PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAN STANDARDS AND SPECIFICATIONS FOR SOUL EROSION AND SEDUMENT CONTENT AND ARE POPULATION AND ARE POPULATION AND AND ARE POPULATION ARE POPULATION AND ARE POPULATION AND ARE POPULATION ARE POP | "Sa.Si HESS NDR NCR | EEDBED PREPAI UITABLE AGRICU IPPERS MOUNTI OLLED OR DRA(| RATION CONSISTS OF L JLTURAL OR CONSTRUC ED ON CONSTRUCTION GGED SMOOTH BUT LEFT | DOSENING SOI TON EQUIPMEN EQUIPMENT. IN THE ROUC | IL TO A DEPTH OF 3 NT, SUCH AS DISC HA AFTER THE SOIL IS GHENED CONDITION. SLO | TO 5 INCHES BY RROWS OR CHISEL LOOSENED, IT MUS DPES 3:1 OR FLAT | MEANS OF PLOWS OR ST NOT BE TER ARE TO |
| STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISION THERETO. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORAF STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF A | RY b. A LL c. IN | E TRACKED WIT PPLY FERTILIZE ICORPORATE LI | H RIDGES RUNNING PAR R AND LIME AS PRESCR ME AND FERTILIZER IN | ALLEL TO THE BED ON THE TO THE TOP | CONTOUR OF THE SLO PLANS. 3 TO 5 INCHES OF | OPE. SOIL BY DISKING | OR OTHER |
| PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPI THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHE DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE | ER <u>2. PERM</u> IN a. A | IANENT STABILIZ | <u>ZATION</u> REQUIRED FOR ANY E | | BANCE OF 5 ACRES | OR MORE. THE MI | NIMUM SOIL |
| ACCORDANCE WITH THE 2011 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AN 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 ADDUED DETWEEN THE FAUL AND SEDING SEEDING DATES | ND C 5), I. 3 DN II. Si | ONDITIONS REQU SOIL PH BETWEI OLUBLE SALTS OIL CONTAINS I | JIRED FOR PERMANENT EN 6.0 AND 7.0. LESS THAN 500 PARTS FSS THAN 40 PERCENT | VEGETATIVE ES PER MILLION CLAY BUT FN | STABLISHMENT ARE: (PPM). NOUGH FINF GRAINED M | IATERIAL (GREATER | THAN .30 |
| THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL E ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS (20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AN | BE P DF E ND C | ERCENT SILT PI XCEPTION: IF L LAY) WOULD BE | LUS CLAY) TO PROVIDE OVEGRASS WILL BE PLA ACCEPTABLE. | THE CAPACIT NTED, THEN | Y TO HOLD A MODERA A SANDY SOIL (LESS | TE AMOUNT OF MO THAN 30 PERCENT | DISTURE. AN I SILT PLUS <u>2</u> |
| 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 OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM TH CID. | IV.S IN V.S HE b.A C | OIL CONTAINS 1 OIL CONTAINS S PPLICATION OF ONDITIONS. | .5 PERCENT MINIMUM OF SUFFICIENT PORE SPACE AMENDMENTS OR TOP: | RGANIC MATTE TO PERMIT A SOIL IS REQU | ER BY WEIGHT. DEQUATE ROOT PENETI VIRED IF ON-SITE SOIL | RATION. S DO NOT MEET | THE ABOVE |
| 6. SITE ANALYSIS: TOTAL AREA OF SITE:3.94ACRES AREA DISTURBED:1.38ACRES AREA TO BE ROOFED OR PAVED:0.25ACRES | c. G Pl d. A Si | RADED AREAS LAN, THEN SCA PPLY SOIL AME OIL TEST. | MUST BE MAINTAINED RIFIED OR OTHERWISE LU NDMENTS AS SPECIFIED | N A TRUE A DOSENED TO A ON THE APP | ND EVEN GRADE AS A DEPTH OF 3 TO 5 IN ROVED PLAN OR AS IN | SPECIFIED ON THE ICHES. IDICATED BY THE I | E APPROVED |
| AREA TO BE VEGETATIVE STABILIZED:1.13ACRES TOTAL CUT:2100CU. YDS. TOTAL FILL:2100CU. YDS. OFFSITE WASTE/BORROW AREA LOCATION: | e. M R A | IX SOIL AMEND AKE LAWN ARE ND READY THE | MENTS INTO THE TOP 3 CAS TO SMOOTH THE S CAREA FOR SEED APP R FOULDMENT TO BOLL | TO 5 INCHE URFACE, REM LICATION. LO | S OF SOIL BY DISKING OVE LARGE OBJECTS OSEN SURFACE SOIL | OR OTHER SUITA LIKE STONES AND BY DRAGGING WITH CONDITIONS WILL | BLE MEANS. BRANCHES, H A HEAVY |
| ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEME OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. T SEE AND ALL CONTROL SCHALL BE INSPECTED BY THE CONTRACTOR WEEKLY: AND THE NO. | NT N Si THE LE | ORMAL SEEDBEI OIL IN AN IRRI EAVE THE TOP | D PREPARATION. TRACK EGULAR CONDITION WITH P 1 TO 3 INCHES (| SLOPES 3:1 I RIDGES RUN F SOIL LOO | OR FLATTER WITH TRA NNING PARALLEL TO T ISE AND FRIABLE. S | CKED EQUIPMENT L THE CONTOUR OF EEDBED LOOSENIN | EAVING THE THE SLOPE. G MAY BE |
| DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UP REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE: INSPECTION DATE | ON <u>B. TOPS</u> 1.] | OILING | CED OVER PREPARED | SUBSOIL PRIO | R TO ESTABLISHMENT | OF PERMANENT | VEGETATION. |
| -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 PRECIPITATION) | ו + ע 2. 1 | THE PURPOSE I TAVE LOW MOIS JNACCEPTABLE TOPSOIL SALVAC | S TO PROVIDE A SUITA TURE CONTENT, LOW NU SOIL GRADATION. GED FROM AN EXISTING | BLE SOIL MEI JTRIENT LEVEI SITE MAY BE | DIUM FOR VEGETATIVE LS, LOW PH, MATERIAL USED PROVIDED IT ME | GROWTH. SOILS O S TOXIC TO PLAN ⁻ EETS THE STANDAR | F CONCERN TS, AND/OR RDS AS SET 1. |
| -BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES -EVIDENCE OF SEDIMENT DISCHARGES -IDENTIFICATION OF PLAN DEFICIENCIES | F S F J | ORTH IN THES SOIL TYPE CAN PUBLISHED BY U | E SPECIFICATIONS. TYPI N BE FOUND IN THE JSDA-NRCS. IMITED TO AREAS HAVIN | CALLY, THE E REPRESENTAT | DEPTH OF TOPSOIL TO IVE SOIL PROFILE SE | BE SALVAGED FO | DR A GIVEN DIL SURVEY |
| -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 | a. 1 b. 1 | THE TEXTURE O ROWTH. | F THE EXPOSED SUBSO | L/PARENT MA | ATERIAL IS NOT ADEQU | ATE TO PRODUCE | VEGETATIVE O SUPPORT |
| -PHOTOGRAPHS -MONITORING/SAMPLING -MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED OTHER INSPECTION JETHOR AS DECIMIEED BY THE CENERAL DEPART FOR | c. 1 d. 1 4. 4 | THE ORIGINAL S THE SOIL IS SO AREAS HAVING | NISH CONTINUING SUPPL OIL TO BE VEGETATED C ACIDIC THAT TREATMEN SLOPES STEEPER THAN | ONTAINS MAT ONTAINS MAT T WITH LIMES 2:1 REQUIRE | URE AND PLANT NUTR ERIAL TOXIC TO PLANT TONE IS NOT FEASIBLE SPECIAL CONSIDERATIO | GROWTH. N AND DESIGN. | |
| STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE). 9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR TH WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKD, | 5. 1 a. 1 AT C AY, E | FOPSOIL SPECIFI FOPSOIL MUST E DTHER SOILS M BY THE APPRO | CATIONS: SOIL TO BE U BE A LOAM, SANDY LOA AY BE USED IF RECOM IPRIATE APPROVAL AU | SED AS TOPS M, CLAY LOAI MENDED BY A HORITY, TOP | OIL MUST MEET THE FO M, SILT LOAM, SANDY AN AGRONOMIST OR SO SOIL MUST NOT BE | OLLOWING CRITERIA: CLAY LOAM, OR LO DIL SCIENTIST AND A MIXTURE OF CO | : DAMY SAND. APPROVED ONTRASTING |
| WHICHEVER IS SHORTER. 10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MIN REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES. | BE 1 OR 5 | EXTURED SUBS SLAG, COARSE NCHES IN DIAMI | SOILS AND MUST CONT FRAGMENTS, GRAVEL, S ETER. RE EREE OF NOVIOUS | AIN LESS THATICKS, ROOTS | AN 5 PERCENT BY V S, TRASH, OR OTHER | OLUME OF CINDER MATERIALS LARGE | RS, STONES, R THAN 1½ |
| 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE LO.D. A PROJECT IS TO BE SEQUENCED SO TH GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADI UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED A | NG C. 1 50 C. 1 ND | GRASS, JOHNSON OPSOIL SUBST SCIENTIST AND | N GRASS, NUT SEDGE, F ITUTES OR AMENDMENT APPROVED BY THE A | POISON IVY, TH S, AS RECO PPROPRIATE | HISTLE, OR OTHERS AS MMENDED BY A QUA APPROVAL AUTHORITY, | SPECIFIED. LIFIED AGRONOMIS MAY BE USED I | T OR SOIL IN LIEU OF |
| APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MO THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME. 12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MU BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE. | RE 6. 1 IST a. E b. U | INATURAL TOPSC TOPSOIL APPLIC TROSION AND SI JNIFORMLY DIST | IL. ATION EDIMENT CONTROL PRAC IRIBUTE TOPSOIL IN A | TICES MUST E 5 TO 8 IN | BE MAINTAINED WHEN A CH LAYER AND LIGHT | PPLYING TOPSOIL. | A MINIMUM |
| TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMPERICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN FLEVATION | ד פ וו א כ | THICKNESS OF SEEDING CAN RREGULARITIES CORRECTED IN (| 4 INCHES. SPREADING PROCEED WITH A MIN IN THE SURFACE RE ORDER TO PREVENT THE | IS TO BE PE IMUM OF AE SULTING FRO FORMATION (| ERFORMED IN SUCH A DDITIONAL SOIL PREP M TOPSOILING OR O DF DEPRESSIONS OR W | MANNER THAT S ARATION AND TIL THER OPERATIONS ATER POCKETS. | SODDING OR LAGE. ANY MUST BE |
| 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIO (INCLUSIVE): USE I AND IP MARCH 1 – JUNE 15 USE II AND IP OCTOPER 1 – ADDI 30 | DS c. 1 V F | TOPSOIL MUST WHEN THE SUBS PROPER GRADIN | NOT BE PLACED IF TH SOIL IS EXCESSIVELY WE G AND SEEDBED PREPA | E TOPSOIL OF T OR IN A CO RATION. | R SUBSOIL IS IN A FI ONDITION THAT MAY O | ROZEN OR MUDDY THERWISE BE DETR | CONDITION, IMENTAL TO 3. |
| USE IV MARCH 1 - MAY 31 USE IV MARCH 1 - MAY 31 16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SI "EROSION AND SEDIMENT CONTROL AND ASSOCIATED PERMITS SHALL BE ON-SITE AND | <u>C. SOIL</u> OIL 1. S | AMENDMENTS (SOIL TESTS MUS IME AND FERTI | FERTILIZER AND LIME SE ST BE PERFORMED TO D LIZER ON SITES HAVING | ECIFICATIONS |) E EXACT RATIOS AND . AREAS OF 5 ACRES C | APPLICATION RATES | S FOR BOTH ALYSIS MAY |
| (B-4-8) STANDARDS AND SPECIFICATION FOR STOCKPILE AREA | E 2. F | BE PERFORMED ENGINEERING PU ERTILIZERS MU APPLICATION BY | BY A RECOGNIZED PR RPOSES MAY ALSO BE JST BE UNIFORM IN ′ APPROPRIATE EQUIPMI | VATE OR CO JSED FOR CHI COMPOSITION, INT. MANURE | MMERCIAL LABORATOR EMICAL ANALYSES. , FREE FLOWING ANI MAY BE SUBSTITUTEE | Y. SOIL SAMPLES D SUITABLE FOR D FOR FERTILIZER | ACCURATE |
| DEFINITION A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CON MEASURES. PURPOSE | TROL S | APPROVAL FROM SITE FULLY LAB OR TRADEMARK | THE APPROPRIATE APP ELED ACCORDING TO TI AND WARRANTY OF THE MUST BE CROUND LIME | PROVAL AUTH HE APPLICABL PRODUCER. | ORITY. FERTILIZERS MU E LAWS AND MUST B | ST ALL BE DELIVER EAR THE NAME, T | RED TO THE RADE NAME |
| TO POOVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS TH POTENTIAL FOR EROSION, SEDIMENTATION ,AND CHANGES TO DRAINAGE PATTERNS. CONDITIONS WHERE PRACTICE APPLIES | E V F | MEN HYDROSE | EDING) WHICH CONTAIN: DE). LIMESTONE MUST B A #100 MESH SIEVE AN | S AT LEAST E GROUND TO D 98 TO 100 | 50 PERCENT TOTAL (SUCH FINENESS THAT PERCENT WILL PASS 1 | DXIDES (CALCIUM T AT LEAST 50 PE THROUGH A #20 ME | OXIDE PLUS RCENT WILL ESH SIEVE. |
| 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 CLEAR | USE. 4. L (5. V RLY L | .IME AND FERTIL OF SOIL BY DISH WHERE THE SU .IMESTONE AT T | JZER ARE TO BE EVENL KING OR OTHER SUITABL BSOIL IS EITHER HIGH 'HE RATE OF 4 TO 8 TO | Y DISTRIBUTEL E MEANS. _Y ACIDIC OI DNS∕ACRE (20 | D AND INCORPORATED R COMPOSED OF HEA 00—400 POUNDS PER 1 | INTO THE TOP 3 T VY CLAYS, SPRE/ .000 SQUARE FEET | O 5 INCHES AD GROUND () PRIOR TO |
| THE FOOTPRINT OF STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING. | OF BE | THE PLACEMENT | OF TOPSOIL. | IEICATIONS | S FOD MICDO_D | ΟΡΕΤΕΝΤΙΟΝ | |
| ACCESS 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 DIVERSI DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST | ION BE | AIN GARDEI MATERIAL | SPECIFICATION | INFILTRA | TION NO | TES | |
| 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. STOCKPILE MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREME | NT F | PLANTINGS | SEE APPENDIX A. TABLE A.4. LOAMY SAND (60 – 65%) | N/A N/A | PLANTINGS ARE SITE-S | PECIFIC | LOAM; |
| AS WELL AS STANDARD B-4-I INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORA STABILIZATION. 8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVID BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINAT | RY L DED TED | 2" TO 4" DEEP] | & COMPOST (35 – 40%) OR SANDY LOAM (30%), | | CLAY CONTENT < 5% | | |
| MATERIAL MUST COVERED WITH IMPERMEABLE SHEETING. <u>MAINTENANCE</u> THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETAT ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION SIDE SLOPES MI | | DRGANIC CONTENT | COMPOST (40%) MIN. 10% BY DRY WEIGHT (ASTM D 2974) | | | | |
| BE MAINTAINED AT NO STEEPER THAN 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET F 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE W SECTION B_3 LAND GRADING | OF M FOR F MTH E | MULCH PEA GRAVEL DIAPHRAGM | SHREDDED HARDWOOD PEA GRAVEL: ASTM-D-448 | NO. 8 OR NO. 9 | AGED 6 MONTHS, MINIM | UM; NO PINE OR WO | OD CHIPS |
| | | CURTAIN DRAIN | ORNAMENTAL STONE: | (1/8" TO 3/8") STONE: | | | 2. 3. |
| DEVELOPER/OWNER DEVELOPER/OWNER TRACT 1 TRACT 2 HOWARD LAND INVESTORS LLC. CLARKSVILLE RIDGE PROFESSIONAL FORDERST STREET SUME 200 | GE GR | OTEXTILE AVEL | AASHTO M-43 | N/A NO. 57 OR NO. 6 | | | 4. 5. |
| ELLICOTT CITY, MD 21043 PHONE 410-707-7054 B318 FORREST STREET - SUITE 200 ELLICOTT CITY, MD 21043 PHONE 410-707-7054 | | ILTRATION RMS) | F 758 TYPE PS 28 | AGGREGATE (3/8" TO 3/4") 4"TO 6"RIGID | | | 6. 7. 8. |
| ENGINEER'S CERTIFICATE | | | OR AASHTO M-278 | SCHEDULE 40 PVC OR SDR35 | GRAVEL OVER PIPES; N PIPES. PERFORATED PIP 14-INCH GALVANIZED H/ | ROW; MINIMUM OF 3" OT NECESSARY UNDEI E SHALL BE WRAPPEI ARDWARE CLOTH | OF 10. RNEATH 10. D WITH 11. |
| 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 WOWARD, SOLL CONSERVATION DISTRICT. | PO CO REC | URED IN PLACE NCRETE (IF QUIRED) | MSHA MIX NO. 3; F'C = 3500 PSI @ 28 DAYS, NORMAL WEIGHT | N/A | ON-SITE TESTING OF P REQUIRED: 28 DAY STRENGTH CONCETE DESIGN (CAS | OURED-IN-PLACE CC | DNCRETE T; ALL |
| Alomer development associates, Reason: I am approving this 12/22/2021 SIGNATURE OF ENGINEER DATE | | | AIR-ENTRAINED; REINFORCING TO MEET ASTM-615-60 | | OR PRE-CAST) NOT U STATE OR LOCAL ST. DRAWINGS SEALED AND PROFESSIONAL STRUCTU | SING PREVIOUSLY AP ANDARDS REQUIRES APPROVED BY A JRAL ENGINEER LICEN | PROVED DESIGN NSED IN |
| SAMER A. ALOMER, P.E. PRINTED NAME OF ENGINEER | | | | | THE STATE OF MARYLAI -DESIGN TO INCLUDE M VERTICAL LOADING [H- HORIZONTAL LOADING (I | ND IEETING ACI CODE 35 -10 OR H-20]; ALL BASED ON SOIL PRES | 0.R/89; OWABLE SURES); |
| DEVELOPERS CERTIFICATE | SA | ND | AASHTO-M-6 OR ASTM-C-33 | 0.02"TO 0.04" | AND ANALYSIS OF POTE " SAND SUBSTITUTIONS GRAYSTONE (AASHTO) | NTIAL CRACKING SUCH AS DIABAS #10 ARE NOT ACCE | E AND PTABLE. |
| 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 | | | | | NO CALCIUM CARBÓN SUBSTITUTIONS ARE AC CAN BE USED FOR SAN | ATED OR DOLOMITIC CEPTABLE. NO ROCK D. | SAND DUST" |
| TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROFECT. HOW RD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUST PERIODIC ON-SITE INSPECTION. | | j | PERMANENT SEI | DING SU | MMARY | | |
| SIGNATURE OF DEVELOPER DATE | ARDINESS ZO | NE (FROM FIGURE RE (FROM TABLE | E B.3): 6b B.3): 8 | | FERTILIZER RATE (10-20-20) | | RATE |
| DONALD R. REUWER Jr. NO. S PRINTED NAME OF DEVELOPER 1 TAL | SPECIES RA | TE (LB/AC) | DATES DEPTHS CH 1-MAY 15 2 15-OCT 15 1/4"-1/2" | A5 LBS. PER ACRE | 90 LBS. PER ACRE PI | K ₂ U 90 LBS. 2 TONS ER ACRE (90 LBS | / ACRE / 1000 |
| THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT MIXTURES | 5 1, 4–7, 9, MENT CONTR | AND 10 FROM ROL MAY BE US | TABLE B.3 OF THE 2011 ED. | (1 LB./1000 SF MARYLAND S | +) (2 LB./1000 SF) (2 LE STANDARD AND SPECIFI | 3./1000 SF) SF CATIONS FOR SOIL | F) EROSION |
| CUNTRUE BROCKATERIERIQUEARD SUIL CONSERVATION DISTRICT. Olexander Bratchie 1/27/2022 | | | | | | | |
| HOWARD SOIL CONSERVATION DISTRICT DATE | 10 | HEBEB | Y CERTIFY THAT T | HESF DOCU | MENTS WERE | 1 | |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING Phil thompson For: 1/27/2022 | MARL | PREPAR A DULY | ED OR APPROVED LICENSED PROFESS THE LAWS OF THE | STATE OF | THAT I AM SINEER MARYLAND | | |
| CHIEF, DEVELOPMENTE ANGINEERING DIVISION DATE | ER RA | | NO: 26859 signed by Samer Ak Discars Samer Akoner, c-UU o-Midlehoter Boender & as email=salomer@mba-eng.co | ATE 08/08 | 8/23 | | |
| | 59. GIN 111 | | Reason: I am approving this document | | 12/22/2021 | | |

DEFINITION

b.

<u>PURPOSE</u>

CONDITIONS WHERE PRACTICE APPLIES

<u>CRITERIA</u> A. SEEDING

MEANS OF a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS. c. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT 30 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE. . SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR

a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. , PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.

IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT

APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT

(PHOSPHOROUS), 200 POUNDS PER ACRE; K 0 (POTASSIUM), 200 POUNDS PER ACRE. 2 LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE

- APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
- AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY.THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
- WILL BE PHYTO-TOXIC
- MINIMUM. APPI ICATION APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
- ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH
- WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. ANCHORING
- DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD: I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR
- USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR. MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. III. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II
- THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO

- LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.
- 1. 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 ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON
- 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 B-4-3.A.1b, AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

PERFORM CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS PER SHEET 2 (5 DAYS). CONSTRUCT ALL PERIMETER SEDIMENT CONTROL MEASURES: DIVERSION DIKES AND SUPER SILT FENCE (10 DAYS)

CONSTRUCT PRIVATE STORM DRAIN (7 DAYS)

INSTALL INLET PROTECTION (1 DAY)

CONSTRUCT USE-IN-COMMON DRIVEWAY (15 DAYS). STABILIZE ALL DISTURBED AREAS (1 DAY).

UPON THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT TRAP AND CONSTRUCT MICROOBIORETENTION FACILITY (10 DAYS).

WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL PERIMETER SEDIMENT CONTROL

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| PLANT SPECIES | SEEDING RATE | | SEEDING DEPTH | RECOMMENDED SEEDING DATED BY PLANT HARDIN | | | |
|--|-----------------|---------------|------------------|---|-------------------------------------|------------------|--|
| | LB/AC | LB/ 1000SF | (INCHES) | 5B AND 6A | 6B | 7A | |
| COOL SEASON GRASSES | | | | | | | |
| ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM) | 40 | 1.0 | 0.5 | MAR 15 TO MAY 31; AUG 1 TO SEP 30 | MAR 1 TO MAY 15; AUG 1 TO OCT 15 | FEB.15 AUG 15 | |
| BARLEY (HORDEUM VULGARE) | 96 | 2.2 | 0.5 | MAR 15 TO MAY 31; AUG 1 TO SEP 30 | MAR 1 TO MAY 15; AUG 1 TO OCT 15 | FEB.15 AUG 15 | |
| OATS (AVENA SATIVA) | 72 | 1.7 | 0.5 | MAR 15 TO MAY 31; AUG 1 TO SEP 30 | MAR 1 TO MAY 15; AUG 1 TO OCT 15 | FEB.15 AUG 15 | |
| WHEAT (TRITICUM AESTIVUM) | 120 | 2.8 | 0.5 | MAR 15 TO MAY 31; AUG 1 TO SEP 30 | MAR 1 TO MAY 15; AUG 1 TO OCT 15 | FEB.15 AUG 15 | |
| CEREAL RYE (SECALE ITALICA) | 112 | 2.8 | 0.5 | MAR 15 TO MAY 31; AUG 1 TO OCT 31 | MAR 1 TO MAY 15; AUG 1 TO OCT 15 | FEB.15 AUG 15 | |
| WARM SEASON GRASSES | | | | | | | |
| FOXTAIL MILLET (SETARIA ITALICA) | 30 | 0.7 | 0.5 | JUN 1 TO JUL 31 | MAY 16 TO JUL 31 | MAY 1 | |
| PEARL MILLET (PENNISETUM GLAUCUM) | 20 | 0.5 | 0.5 | JUN 1 TO JUL 31 | MAY 16 TO JUL 31 | MAY 1 | |

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| Certificate Of Completion | | | | |
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