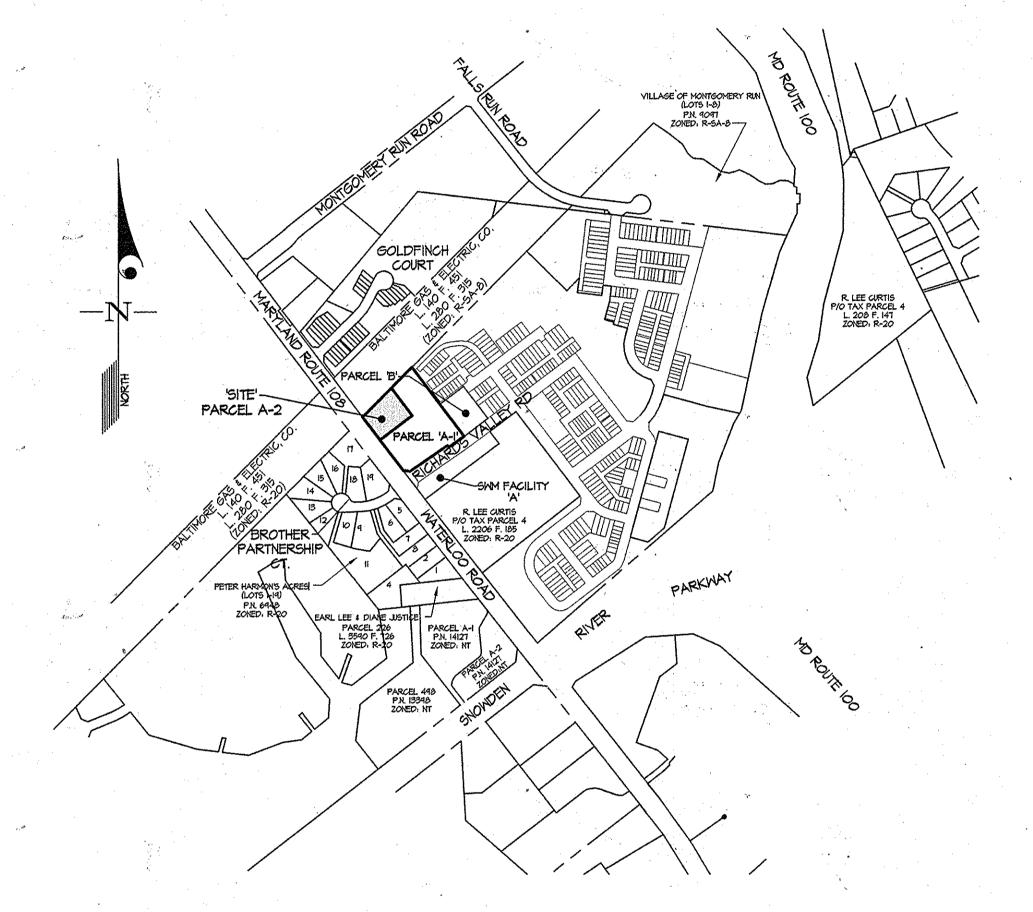
## GENERAL NOTES

- I. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARD AND SPECIFICATIONS IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-TTTI AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- 4. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF FUBLIC WORKS, BUREAU OF UTILITIES AT (410) 313-4900 AT LEAST FIVE WORKING DAYS PRIOR TO STARTING ANY EXCAVATION WORK.
- 5. AREA OF PARCEL A-2 IS 0.98 AC.
- 6. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 7. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 8. EXISTING TOPOGRAPHY IS FROM A FIELD SURVEY BY GUTSCHICK, LITTLE, & WEBER DATED JULY 2014.
- 9. COORDINATES AND BEARINGS ARE BASED UPON THE MD STATE PLANE SYSTEM (NAD '83).
- IO. EXISTING WATER AND SEMER SHOWN WAS DERIVED FROM THE APPROVED PUBLIC WATER & SEMER PLANS UNDER CONTRACTS 14-4355-D AND SDP 07-053.
- II. EXISTING STORM DRAIN SHOWN IS PER F-07-043 AND SDP 07-053.
- 12. STORMWATER MANAGEMENT QUALITY & QUANTITY CONTROL IS PROVIDED BY EXISTING POND A, DESIGNED UNDER F-007-043 THE RECHARGE (Rev) REQUIREMENT FOR PARCEL IS PROVIDED UNDER F-07-043.
- 13. THERE ARE NO STREAMS, WETLANDS, OR FLOODPLAINS RELATED TO THIS SITE.
- 14. ALL CURB RADII ARE 5' UNLESS NOTED OTHERWISE.
- 15. SIDEWALKS ADJACENT PARKING SHALL BE 5' WIDE, EXCEPT WHERE DIMENSIONED OTHERWISE.
- 16. CONTRACTOR SHALL UTILIZE PVC PIPE FOR ALL SEMER HOUSE CONNECTIONS. CONTRACTOR SHALL UTILIZE D.I.P. (CL. 52) FOR 6" WATER HOUSE CONNECTIONS.
- IT. CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITY CONNECTIONS. SHOULD SUBSTANTIAL DISCREPANCIES ARISE, THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER BEFORE MAKING ADJUSTMENTS.
- 18. PAVED AREAS INDICATED ARE PRIVATE EXCEPT AS NOTED.
- 19. RECORDING REFERENCE: PLAT NO. 19232 & 22645
- 20. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. ALL HANDICAP ACCESSIBLE SIDEWALKS SHALL HAVE A TWO PERCENT MAXIMUM CROSS SLOPE . PROVIDE A FIVE-FOOT BY FIVE-FOOT LEVEL (2) PERCENT MAX.) LANDING AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
- 21. ALL WATER METERS SHALL BE LOCATED INSIDE BUILDINGS.
- 22. THE END OF THE PROPOSED UTILITY STUBS ARE LOCATED 5' FROM THE BUILDING FACE, FINAL CONNECTION TO THE BUILDING
- 23. THE BUILDING-STORM DRAIN CONNECTIONS ARE TO BE CONSTRUCTED BY THE BUILDING PLUMBER.
- 24. MAINTAIN 2 % CROSS-SLOPES ON SIDEWALKS, PER STANDARD DETAILS. WHERE SIDEWALK IS ADJACENT TO BUILDING, SLOPE AWAY FROM BUILDING, AND UTILIZE EXPANSION JOINT MATERIAL AND SEALER IN THE JOINT BETWEEN THE SIDEWALK AND THE BUILDING WALL.
- 25. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP DATED JANUARY 18, 2008.
- 26. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
- 27. THE PROPOSED USE OF PARCEL A-2 IS SHOPPING CENTER. A REVISED HOWARD COUNTY INDUSTRIAL WASTE SURVEY QUESTIONNAIRE WILL BE SUBMITTED AS PART OF THE BUILDING PERMIT.
- 28. THIS PARCEL DOES NOT APPEAR ON THE COUNTY'S CEMETERY INVENTORY AS HAVING CEMETERIES OR BURIAL GROUNDS. ALSO, THERE IS NO PHYSICAL EVIDENCE OF EITHER CEMETERIES OR BURIAL GROUNDS BEING PRESENT ON THE SITE.
- COORDINATES AND BEARINGS ARE BASED UPON THE '83 MD STATE COORDINATE SYSTEM (NAD '83) AS PROJECTED B HOWARD COUNTY GEODETIC CONTROL STATIONS NOS. 2243002, 2243003.
- 30. FOREST CONSERVATION FOR THIS SITE HAS BEEN PROVIDED UNDER F-06-019.
- 31. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING SHALL BE POSTED AS PART OF THE GRADING PERMIT AS NOTED ON SHEET 5. THE SURETY IS IN THE AMOUNT OF \$600.00.
- 32. APPLICABLE DPZ FILE REFERENCE: S 04-09 (APPROVED 2/15/05), WP 04-105, F 06-019, WP 06-045 ZRA-65, F 07-001, P-06-001, F-07-043, SDP 07-053, \$ F-14-016.
- 33. ALL OUTSIDE LIGHTING SHALL COMPLY WITH ZONING REGULATION SECTION 134 WHICH REQUIRES LIGHTS TO BE INSTALLED TO DIRECT/REFLECT LIGHT DOWNWARDS AND INWARDS ON SITE AWAY FROM ALL ADJOINING PUBLIC STREETS AND RESIDENTIAL
- 34. HOWARD COUNTY FIRE AND RESCUE GENERAL REQUIREMENTS
- a. A KNOX BOX (FIRE DEPT. ACCESS BOX) IS REQUIRED TO BE PLACED IN FRONT OF THE BUILDING. IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4-5' IN HEIGHT AND NO MORE THAN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSED. NFPA-I
- 18.2.25.I.I AMENDED IN TITLE 17. b. MAINTAIN A MINIMUM CANOPY HEIGHT OF 13 FEET, 6 INCHES FOR EMERGENCY EQUIPMENT ACCESS. NFPA-1 18.2.2.5.1.1
- AMENDED IN TITLE IT. c. PROVIDE SIGNAGE ON THE BUILDING IDENTIFYING BUILDING ACCESS
- 35. ALL PUBLIC ROADS SHOW WITHIN THESE PLANS ARE EITHER STATE OR COUNTY ROADS
- 36. THE SHARED PARKING AND ACCESS EASEMENTS FOR PARCELS 'A-I' & 'A-2' ARE RECORDED AS PART OF EASEMENTS AND COVENANTS AGREEMENT, RECORDED L.: 15248 F.: 32
- BT, HEALTH DEPARTMENT APPROVAL OF THIS SITE DEVELOPMENT PLAN DOES NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATION ASSOCIATED WITH THIS PLAN. PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN THE LIMITS DESCRIBED BY THIS PLAN WILL REQUIRE REVIEW AND APPROVAL BY THE HEALTH DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT ARE NOT LIMITED TO, THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE
- Note: The 450 sft additional seating area is exemt from Stormwater management. Any future increase where the cumulative total area is over 5,000 sft. shall be required to brovide atormwater management"

HOWARD COUNTY HEALTH DEPARTMENT APPROVED: HOWARD COOKET THEALTH SEWER SYSTEMS APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Chief, Development Engineering Division

# SITE DEWELOPMENT PLAN SHIPLEY'S GRANT

PARCEL A-2 PN. 22645



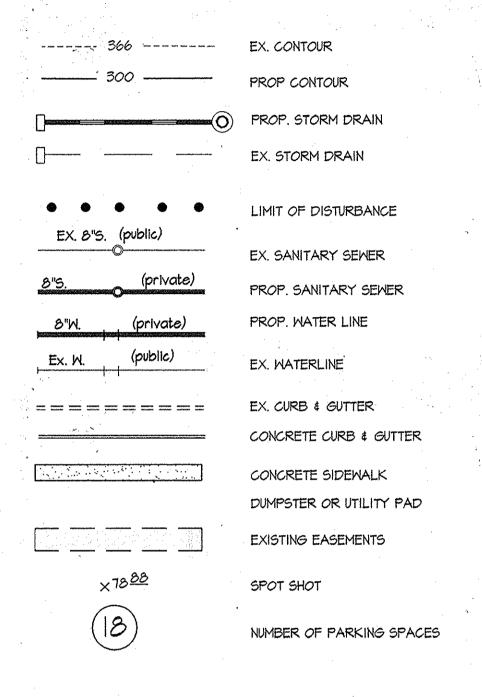


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PROP. LIGHT FIXTURE & POLE

EX. LIGHT FIXTURE & POLE

## AREA OVERVIEW

SCALE : I" = 500'

# SITE ANALYSIS DATAAA

Gross Area of Parcel A-2 =	0.98 Ac.
Disturbed Area =	0.85 Ac.
<u>Proposed Building C</u> (Sho	opping Center
Gross Building Area =	5,965 sq-ft.
Outdoor Seating Area =	790 sq-ft.
Total Canopy Area =	0 sq-ft.
Building Coverage =	5,965 sq-ft.
% Building Coverage =	14.0%
	*

Site zoning: B-1 (per the 2/2/04 Comprehensive Zoning Plan)

# Existing Building A (Shapping Center) (Information taken from SDP 07-053)

Evicting Building B (Shopp	ina Center)
Canopy Area =	1,532 sq-ft.
Outdoor Seating Area = *	634 sq-ft
Gross Building Area =	19,093 sq-ft

#### Existing Building B (Snopping Center) (Information taken from SDP 07-053) 6,432 sq-ft Gross Building Area =

404 sq-ft.

1936 sq-ft.

Total	Areas	(Parcels A-I	Æ	A-2)	
			· t		

#### TOTAL ALEGS (LALCEIS ALL & ALZ) 32,914 sq-ft\* Total Gross Building Area =

Total Canopy Area =

\* Includes outdoor seating area.

Canopy Area =

# Parking Tabulation (Parcel A-1 & A-2)

180 spaces or SDP-10-046)
6 spaces
2 space
9 spaces OP-10-046)
9 spaces DP-10-046)

1. No change in use is permitted without compliance with the applicable parking requirements of zoning section 133.d and the approval of the DPZ.

2. Restaurantuses in overall shopping center (Buildings A, B : C) shall not exceed 50% of its gross floor orea. If restaurant uses exceed 50% of the gross floor area, the parking requirements for all buildings sholl be colculated separately based on their specific use(s) and the related specific parking requirement(s) found in Zaning Section 133.d, With the exception of Zaning Section 133.d.4.n Which is for Shapping Center. 3. All three buildings operate as one continuous shopping center. None of the buildings are considered separate pad sites.

# VICINITY MAP SCALE: 1'' = 2,000'STANDARD DISC ON CONCRETE MONUMENT ADC HOWARD COUNTY MAP PAGE 16 - GRID F-6

Howard County Control Stations STANDARD DISC ON CONCRETE MONUMENT N 564,925.75, E 1,367,067.65

ELEY. = 437.28 STANDARD DISC ON CONCRETE MONUMENT N 563,835.91, E 1,367,971.65

## SHEET INDEX

- I. COVER SHEET
- 2. SITE DEVELOPMENT PLAN & PARCEL MAP
- 3. HANDICAP ACCESSIBILITY AND TYPICAL DETAILS
- 4. SEDIMENT CONTROL PLAN, NOTES, DETAILS & SOILS MAP
- 5. LANDSCAPE PLAN, SCHEDULES AND PLANT DETAILS
- 6. LANDSCAPE NOTES AND PLANT LIST

7. UTILITY PROFILES & STORM DRAIN DRAINAGE AREA MAP

ADDRESS CHART BUILDING STREET ADDRESS A BLDG C 5715 RICHARDS VALLEY ROAD

PERMIT INFORMATION CHART						
SUBDIVISION NAME	E: SHIF	PLEY'S GRANT			TION/AREA	PARCEL PARCEL A-2
PLAT No. 19232 \$ 22645	ZONE B-I	TAX MAP 37	BL	ock.	ELEC, DIST.	CENSUS TRACT 6011.02
WATER CODE:	D07	, 7		SEWER C	ODE: 27800	000

CIVIL

GLWGUTSCHICK LITTLE & WEBER, P.A.				
IL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK				
BURTONSVILLE, MARYLAND 20866 EL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	10.2.15	Parking Note #2 revised, outdoor seating area added (2)	94.	
		LAYOUT REVISED FOR RETAIL. PARCEL A SUBDIVIDED INTO A−1 & A−2 🗥		
D\DRAWINGS\03006\08015\SDP\08015-SDP-01.dwg   DES. mjt   DRN. mjt   CHK.	DATE	REVISION	BY	APP'R.

PREPARED FOR: SHIPLEY'S GRANT PAD SITE, LLC O BAVAR PROPERTIES GROUP, LL 1954 Greenspring Drive, SUITE 400 TIMONIUM, MARYLAND 21093 ATTN: ROBERT BAVAR

410-560-0300

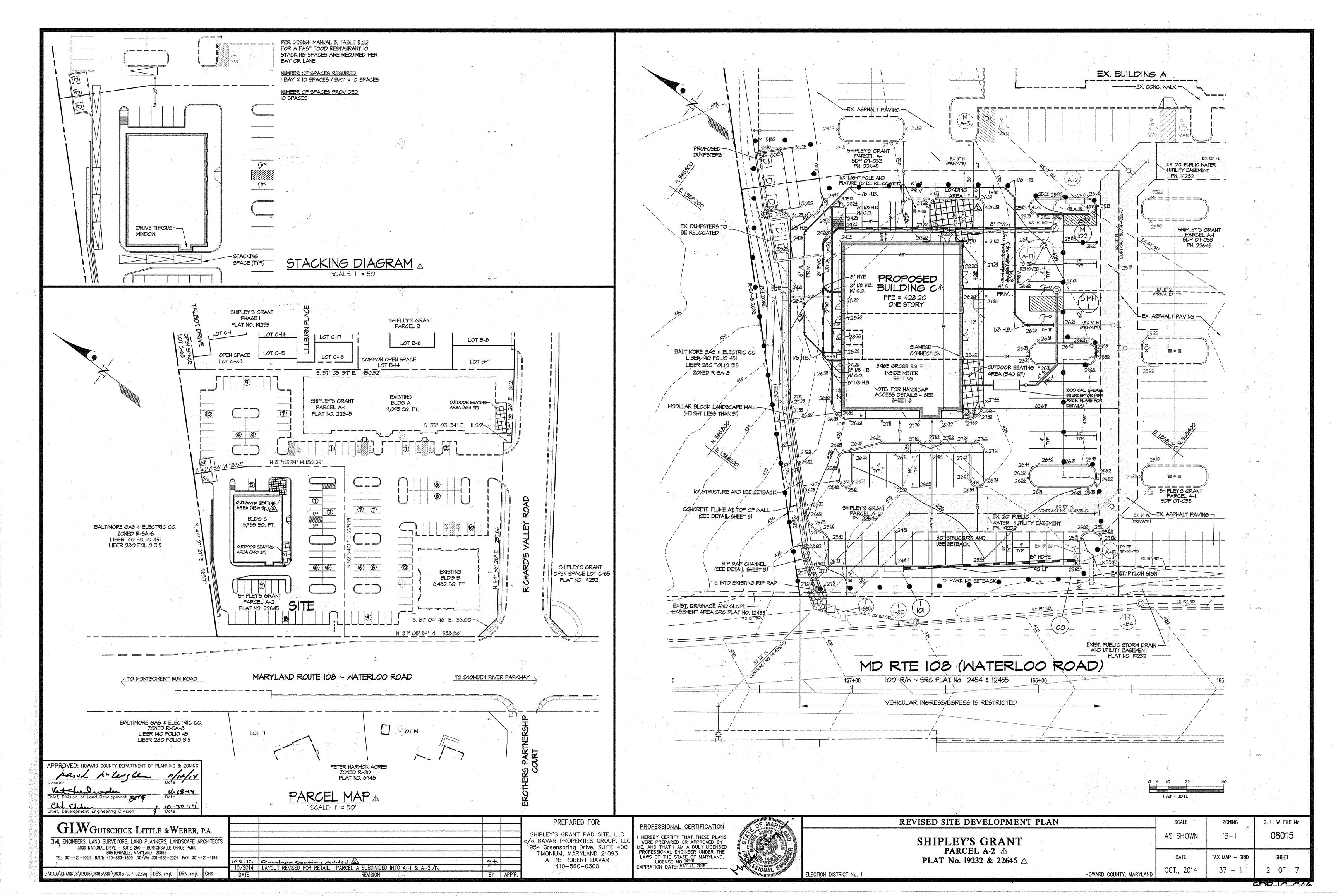
PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14931 EXPIRATION DATE: MAY 21, 2016

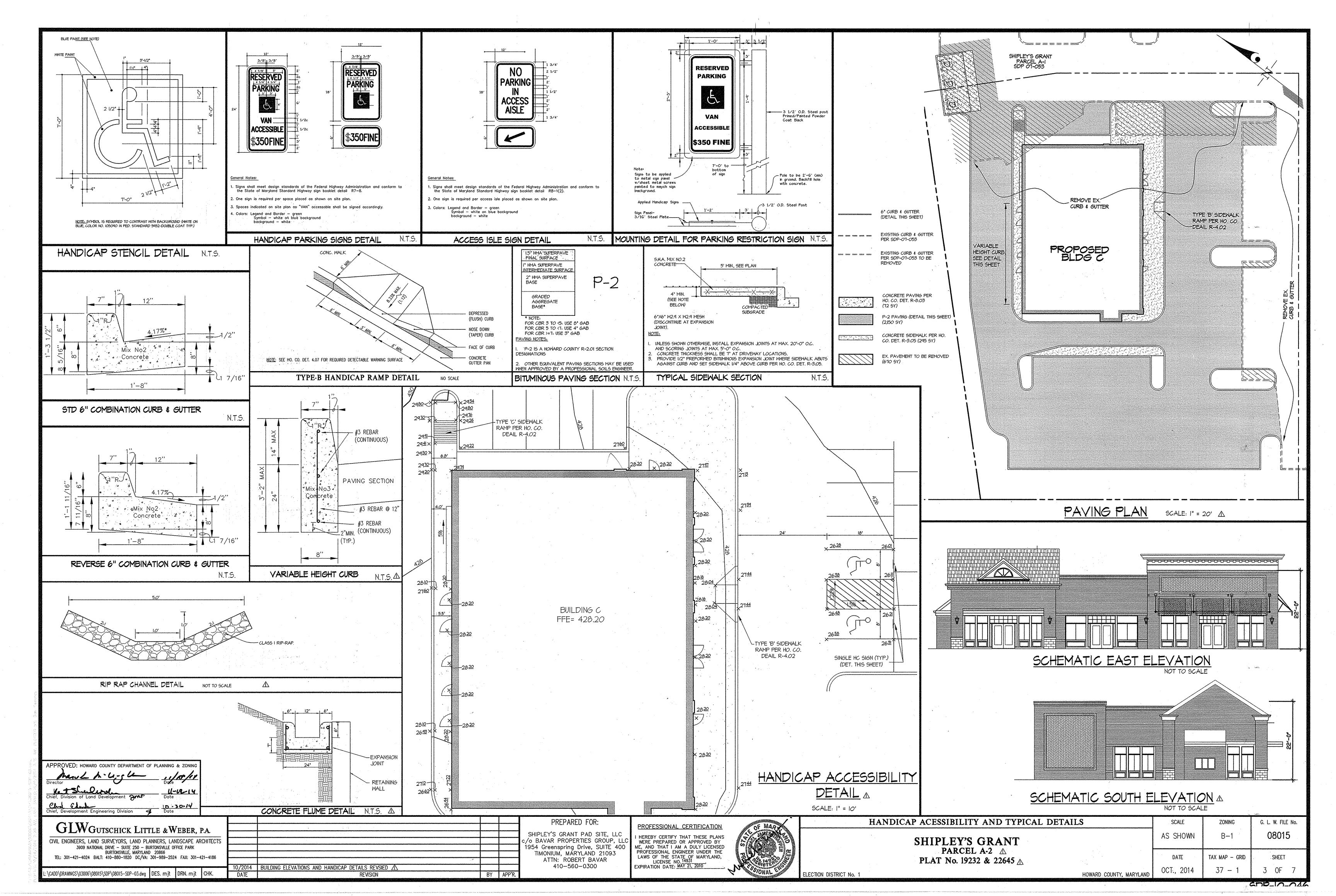
LECTION DISTRICT No. 1

SHIPLEY'S GRANT PARCEL A-2 A PLAT No. 19232 & 22645 A

**REVISED COVER SHEET** 

SCALE ZONING G. L. W. FILE No. 08015 AS SHOWN TAX MAP - GRID 1 OF HOWARD COUNTY, MARYLAND





#### SEQUENCE OF CONSTRUCTION **B-4-2 STANDARD AND SPECIFICATIONS FOR SOIL** B-4-3 STANDARDS AND SPECIFICATIONS FOR PREPARATION, TOPSOILING, AND SOIL AMENDMENTS **B-4-4 STANDARDS AND SPECIFICATIONS B-4-5 STANDARDS AND SPECIFICATIONS** OBTAIN GRADING PERMIT AND ARRANGE THE SEEDING and MULCHING FOR TEMPORARY STABILIZATION FOR PERMANENT STABILIZATION PRE-CONSTRUCTION MEETING WITH THE HOWARD COUNT DEFINITION THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. SEDIMENT CONTROL INSPECTOR (I DAY) DEFINITION BeB2 TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. INSTALL STABILIZED CONSTRUCTION ENTRANCE, INLET PROTECTION AND PERIMETER SUPER SILT FENCE (3 DAYS). | \A-3/ TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON CONDITIONS WHERE PRACTICE APPLIES CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A GRADE THE SITE, START UTILITY INSTALLATION, BUILDING DISTURBED SOILS PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION SHIPLEY'S GRANT CONSTRUCTION AND LANDSCAPE WALL. INSTALL INLET TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT PRACTICES ARE REQUIRED. CONDITIONS WHERE PRACTICE APPLIES PARCEL A-I . SOIL PREPARATION UNDER ACTIVE GRADING. PROTECTION ON NEW INLETS AS THEY ARE INSTALLED. AS <u>CRITERIA</u> EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE. EXISTING PAVEMENT IS REMOVED, RELOCATE SILT FENCE TEMPORARY STABILIZATION TO OUTER LIMITS OF CONSTRUCTION (3 MONTHS). SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR TH SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE UITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS O RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BI TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES. SEEDING DATES COMPLETE BUILDING CONSTRUCTION AND INSTALL CURB. AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED. THEN ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE AND BASE PAYING WALLS (2 MONTHS). TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN. a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES B APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. A INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER THE TESTING AGENCY SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING. STABILIZE REMAINING AREAS WITH LANDSCAPING, MULCH, bed used must have been tested within the 6 months immediately precedii CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND GRASS SEED AND/OR SOD (I WEEK). F SOWING SUCH MATERIAL ON ANY PROJECT, REFER TO TABLE B.4 RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE. MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN PERMANENT STABILIZATION ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES UNTIL THE NEXT SEEDING SEASON. 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 342 AFTER PERMISSION IS OBTAINED FROM THE SEDIMENT MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ). A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE TEMPORARY SEEDING SUMMARY CONTROL INSPECTOR, REMOVE ANY REMAINING SEDIMENT CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: APPLIED WHEN THE GROUND THAWS. RITICAL AREA PLANTING. CONTROL FEATURES. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES . INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES I. SOIL PH BETWEEN 6.0 AND 7.0. FERTILIZER MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY SEED MIXTURE: RECOMMENDED BY THE SOIL TESTING AGENCY. RATE FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICAT FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). INSTALL SURFACE COURSE PAVING (I WEEK) IN THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE (10-10-10) RATE 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN SPECIES RATE (lb/oc.) FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING, NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED, TEMPERATURES DATES ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY. III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER TH Mar. 1 to May 15. 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF 5 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE Aug. 1 to Oct. 15 0.5 INCHES 436 lb./ac. 2 tons/ac TANDARD SYMBOL 40 lb/ac TURFGRASS MIXTURES RYEGRASS MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 DETAIL E-9-3 CURB INLET PROTECTION an [E (10 lb./ 1 (90 lb.) SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND 1,000 sf) 1,000 sf) STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS PEARL MILLET 20 lb/cc May 16 to July 31 0.5 INCHES COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. majimum drahade area = X; acre IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS. BALTIMORE GAS & ELECTRIC CO. LIBER 140 FOLIO 451 SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE APPLICATION V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. SEDIMENT CONTROL NOTES 2 IN x 4 IN WOR-SANDBAG OR OTHER APPROVED ANCHORING METHOL CONDITIONS OR PURPOSE, ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF LIBER 280 FOLIO 315 DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE 6 FT MAX SPACING OF % TO 1% STONE 7 a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE ZONED R-SA-8 INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (410) 313-1855 2 IN x 4 IN ANCHORS. 2 FT MIN. LENGTH INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED OF KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO TH GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED INTENSIVE MANAGEMENT, IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES. SITE—SPECIFIC SEEDING SUMMARIES PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "2011 MARYLAND" MODULAR BLOCK LANDSCAPE WALL 2 N x 4 N SPA AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER, APPLY HA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND - GALVANIZED HAROWARE CLOTH (HEIGHT LESS THAN 3" SEEDING RATE IN EACH DIRECTION, ROLL THE SEEDED AREA WITH A SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF I. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS HREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT. OF THE TOTAL MIXTURE BY WEIGHT. . OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEAN KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN STABILIZATION SHALL BE COMPLETED WITHIN: RAKE LAWN AREAS TO SMOOTH THE SURFACE REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES SECTION A-A CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE A. 3 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM MEDIUM TO INTENSIVE MANAGEMENT, CERTIFIED PERENNIAL RYEGRASS ISOMETRIC CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HAI INSTRUCTION SPECIFICATIONS 1000 SQUÁRE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE EX. 20' PUBLIC WATER AND UTILIT B. 7 CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJEC HE SEEDING RATE IN EACH DIRECTION. WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE SITE NOT UNDER ACTIVE GRADING. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. UNNECESSARY ON NEWLY DISTURBED AREAS. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEE TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE HAIL THE 2X4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART) AND FERTILIZER) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO ATTACH A CONTINUOUS PIECE OF % INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WER, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE. IF FFRTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD TOPSOILING RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 COUNTY DESIGN MANUAL, STORM DRAINAGE. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR. TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN K20 (POTASSIUM), 200 POUNDS PER ACRE. 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN . PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACR HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/O ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATEI KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED FORM THE HAROWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE HAROWARE CLOTH AND GEOTEXTILE WITH CLEAN % TO 1% INCH STONE OR EQUIVALENT RECYCLED CONCRETE. AND MULCHING (SEC. B). TEMPORARY STABILIZATION, WITH MULCH ALONE, CAN ONLY BE TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS S FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN LIME WHEN HYDROSEFDING TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 11/2 DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY TO 3 POUNDS PER 1000 SQUARE FEET. ESTABLISHMENT OF GRASSES. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL PUBLISHED BY USDA-NRCS. O. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SECRIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN MULCHING SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATI OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR MULCH MATERIALS (IN ORDER OF PREFERENCE) -- EXIST. DRAINAGE AND SLOPE / EASEMENT AREA SRC PLAT NO. 1245 TOTAL AREA OF SITE RECOMMENDATIONS FOR MARYLAND" MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE. OAT, OR BARLEY AND AREA DISTURBED 0.85± AC U.S. DEPARTMENT OF AGRICULTURE 2011 WARYLAND DEPARTMENT OF ENVIRONMENT RAL RESOURCES CONSERVATION SERVICE 2011 PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS A THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH. AREA TO BE ROOFED OR PAVED 0.65± AC CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT O SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYEI d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. AGRICULTURE. TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER DETAIL E-9-2 AT-GRADE INLET PROTECTION [D]AGIP OR EXCESSIVELY DUSTY, NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHER ONE SPECIES OF GRASS IS DESIRED. AREA TO BE VEGETATIVELY STABILIZED : 0.2± AC. PROTECTION AND ASSURES A PURE GENETIC LINE AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN. 1.100± CY TOTAL CUT . WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD WAXIMUM DRABBACE AREA = 1 ACRE IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE. I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT TOTAL FILL 1.100± CY TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA: WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B OFF-SITE WASTE/BORROW WILL PROVIDE AN APPROPRIATE COLOR INSPECTION OF THE UNIFORMLY SPREAD SLURRY. APPROPRIATE COLOR TO FACILITATE VISUAL AREA LOCATION CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) - 1/4 TO 1/5 IN STONE MD RTE IOS (NATERLOS ROAD) SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF 100" R/W ~ SRC PLAT No. 12454 \$ 12455 PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE (HARDINESS ZONES: 7A, 7B) CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDER III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A Andreas or contract the special of the same STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER MANNER THAT THE WOOD CELLULOSE FIBER MUICH WILL REMAIN IN LINIFORM TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 3 THAN 1.5 INCHES IN DIAMETER ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THI USPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED TO 4 INCHES LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDED. REMOVE <u>VEHICULAR INGRESS/ÉGRESS IS RESTRICTED</u> HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR. FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES A MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS. INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF k. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT \_\_\_\_\_ TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL PERIMETER FROSION AND SEDIMENT CONTROLS BUT REFORE PROCEEDING WITH ANY OTHER GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES. ₩ IN HARDWARE CLOTH TOPSOIL APPLICATION . STANDARD SILT FENCE MAY BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION - % TO 1% IN STONE APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER . EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL. PERMANENT SEEDING SUMMARY TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT OF THE SEDIMENT CONTROL INSPECTOR UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM HOLDING CAPACITY OF 90 PERCENT MINIMUM. WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN 1 WORKING DAY, WHICHEVER IS THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR 2. WHEN SUPER SILT FENCE IS RUNNING AT A SLOPE GREATER THEN 5% FOR A DISTANCE SEFOING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE AN' ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED OVER 50', CURL FENCE UP 2' FOR EVERY 2' OF ELEVATION CHANGE ALONG SILT FENCE. SEED MIXTURE: #9 (Tall Fescue/Kentucky Bluegrass) **FERTILIZER** IRRECULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH RATE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. SEEDING 3. SEDIMENT CONTROL INSPECTOR MAY RELOCATE STABILIZED CONSTRUCTION | DEPTHS | (10-20-20) | RATE CONSTRUCTION TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE ( 2 TONS PER 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 DATES A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL PROPER GRADING AND SEEDBED PREPARATION. UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME, WORK MAY PROCEED THIS PLAN FOR SEDIMENT 4. IF A STOCKPILE EXCEEDS IS FEET IN HEIGHT, IT MUST BE BENCHED. OT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATIO TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. (95% by weight): Falcon IV, SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) IN THE PRECEDING GRADING UNIT HAS BE STABILIZED AND APPROVED BY THE Mar. 1 to May 15, 1/4 - 1.0 lb/ 1000 90 lb/ . LIFT CRATE AND WRAP WITH NONYOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT Penn 1901 & Rebel Exedo 6-8 lb/ CONTROL PRUPOSES ONLY Aug. 15 to Oct. 15 1/2 IN. . s.f. 1000 s. ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE STANDARD STABILIZATION NOTE: 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 1000 s.f , PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORAR' APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT (45 lb/acre) Certified Kentucky Bluegrass BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSI STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTDNANCE. REMOVE ACCUMILATED SEDMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOCGING, IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WHISH 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED, WHEN THIS OCCURS, REMOVE ACCUMULATED SECMENT AND CLEAN, OR REPLACE GEOTEXTIL AND STORM. STABILIZATION MUST BE COMPLETED WITHIN: 100 GALLONS OF WATER. blend (5% by weight): MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES. Courtyard, Raven & Yankee **B-4-8 STANDARDS AND SPECIFICATIONS FOR** A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR STOCKPILE AREA DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO I PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING \* Other cultivars listed as "proven" in the most current UMD TT-77 may also be used APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY, FERTILIZERS MUST ALL BE DELIVERED TO MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDWENT CONTROL VERTICAL (3:1); AND THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER). DEFINITION U.S. DEPARTMENT OF AGRICULTURE 2011 MARKLAND DEPARTMENT OF ENYROHMEN TURAL RESOURCES CONSERVATION SERVICE 2011 WATER MANAGEMENT ADMINISTRATION NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER. METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND B.) SEVEN (1) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE . GENERAL SPECIFICATIONS A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED PROJECT SITE NOT UNDER ACTIVE GRADING. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE CONTROL MEASURES. DETAIL E- 9-1 STANDARD INLET PROTECTION PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. T PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, TI a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE PLUS MAGNESIUM OXIDE), LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 -W SOL K DETAIL E-3 SUPER SILT FENCE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. ENTRANCE -----SSF------<u>Purpose</u> PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH. PLUS OR MINUS TYPE A MAXIMUM DRAINAGE AREA = 1/4 ACRE TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE #20 MESH SIEVE. PRACTICE SHOULD FOLLOW THE CONTOUR. O PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 I. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS. INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIO OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE AT THE RATE OF 4 TO 8 ELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULO CONDITIONS WHERE PRACTICE APPLIES STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. FIBER PER 100 GALLONS OF WATER. WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM -2 IN x 4 IN FRAMI SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR GRASP ON THE UPPER 10 PERCENT OF THE SECTION -PIPE (SEE NOTE 6 H-5 STANDARDS AND SPECIFICATIONS FOR DUST CONTROL TERRA TAX II, TERRA MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS CROUND SURFACE--d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY PROFILE BE HEAVIER AT THE EDGES WHERE WIND OFFINITION CONTROLLING THE SUSPENSION OF DUST PARTICLES FROM CONSTRUCTION ACTIVITIES. CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE O DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL -16 IN MIN. -NOTCH ELEVATION SO FT MIN. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS, SOD ASPHALT BINDERS IS STRICTLY PROHIBITED NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 LEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG. INCLUDING HEALTH AND TRAFFIC HAZARDS. IE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. CONDITIONS WHERE PRACTICE APPLIES AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING. CHAIN LINK FENCING -DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL WOVEN SUT FILM GEOTEXTILE-LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD. DEVELOPER'S/BUILDER'S CERTIFICATE WOVEN SUIT FILM LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED NOW \_ ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. 18 IN INTO GROUND --PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PLAN VIEW I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE MULCHES: SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION B-4-3 SEEDING TYPE A CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A IYPE B PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OF ACCORDING TO THIS PLAN. AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED I AND MULCHING, AND SECTION B-4-4 TEMPORARY STABILIZATION, MULCH MUST BE ANCHORED TO PREVENT BLOWING DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH ISOMETRIC VIEW VECETATIVE COVER: SEE SECTION B-4-4 TEMPORARY STABILIZATION. THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING PROGRAM PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVI WOULD CAUSE AIR DRYING OF THE ROOTS. TILLAGE: TILL TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE, BEGIN PLOWING ON WINDWARD SIDE OF FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD." 5. PLACE STABRIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES MUST TRAVEL OVER THE ENTRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (\*30 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM WOOTH OF 10 FEET, FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT. APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT TH SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE IRRIGATION: SPRINKLE SITE WITH WATER UNTIL THE SURFACE IS MOIST, REPEAT AS NEEDED. THE SITE MUST NOT BE 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 NATIO THE GROWING UNDERLYING SOIL SURFACE. IRRIGATED TO THE POINT THAT RUNOFF OCCURS. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSTIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A LIQUINTABLE BERNI WITH 5:1 SLOPES AND A MENILUL OF IZ INCHES OF STOKE OVER THE PIPE ROMOE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGED CONVEY, A PIPE IS NOT NECESSARY, A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF BARRIERS: SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE FASTEN 9 GAUGE OR HEAVER CALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 RICHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS. MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. SIGNATURE OF DEVELOPER/BUILDER TANDARD B-4-4 TEMPORARY STABILIZATION. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT CHEMICAL TREATMENT: USE OF CHEMICAL TREATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW F THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS ENGINEER'S CERTIFICATE . SOD MAINTENANCE WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SECIMENT BY PASS. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING . PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE AUGMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. o. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS MAINTENANCE REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM. KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN SECTION FOR TYPE A AND B THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION Ketslehoo REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT REPLACE GEOTEXTILE IF TORN. IF UNDERWINING OCCURS, REINSTALL CHAIN LINK FENCING AND JECTICATED. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN, A 2:1 RATIO. THE STOCKPILE ARE MOISTURE CONTENT. 4-18-14 MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FE DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST E PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING. MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED. 2011 MARTIANO DEPARTMENT OF ENTRONMENT U.S. DEPARTMENT OF ADRICULTURE 2011 MARTIANO DEPARTMENT OF ENTRONM WATER MANAGEMENT ADMINISTRATION NATURAL RESOURCES CONSENTATION SERVICE 2011 WATER MANAGEMENT ADMINISTRATION DEPARTMENT OF ENTROPHY WATER MANAGEMENT ADMINISTRATION DEPARTMENT OF ENTROPHY WATER MANAGEMENT ADMINISTRATION DEPARTMENT OF ENTROPHY ADMINISTRATION DEPARTMENT D Chief, Development Engineering Division PREPARED FOR: REVISED SEDIMENT CONTROL PLAN, NOTES, DETAILS & SOILS MAP SCALE GLWGUTSCHICK LITTLE &WEBER, P.A. PROFESSIONAL CERTIFICATION SHIPLEY'S GRANT PAD SITE, LLC 1'' = 30'HEREBY CERTIFY THAT THESE PLANS SHIPLEY'S GRANT /o BAVAR PROPERTIES GROUP, LL CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS WERE PREPARED OR APPROVED BY 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK 1954 Greenspring Drive, SUITE 400 IE, AND THAT I AM A DULY LICENSED PARCEL A-2 A BURTONSVILLE, MARYLAND 20866 PROFESSIONAL ENGINEER UNDER THE TIMONIUM, MARYLAND 21093 LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14931 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 PLAT No. 19232 & 22645 🛦 ATTN: ROBERT BAVAR EXPIRATION DATE: MAY 21, 2010 410-560-0300 10/2014 | LAYOUT REVISED FOR RETAIL. NOTES AND DETAILS UPDATED PER 2011 STANDARDS A BY APP'R. ELECTION DISTRICT No. HOWARD COUNTY, MARYLAND

TAX MAP - GRID SHEET 

G. L. W. FILE No.

08015

EX BUILDING A

EX. 20' PUBLIC WATER AND UTILITY EASEMENT

SHIPLEY'S GRANT

EX 6" 5 \_ \_ \_

LEX. ASPHALT PAVING

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EXIST. PYLON SIGNEX 15" SD\_ ===

SEDIMENT CONTROL

LIMIT OF DISTURBANCE

PROPOSED SUPER SILT FENCE

ENTRANCE

INLET PROTECTION

STOCKPILE AREA

PROPOSED TEMPORARY

STABILIZED CONSTRUCTIO

**ზ**5८**⊑**‱

This Development Plan is approved for

Soil Erosion and Sediment Control

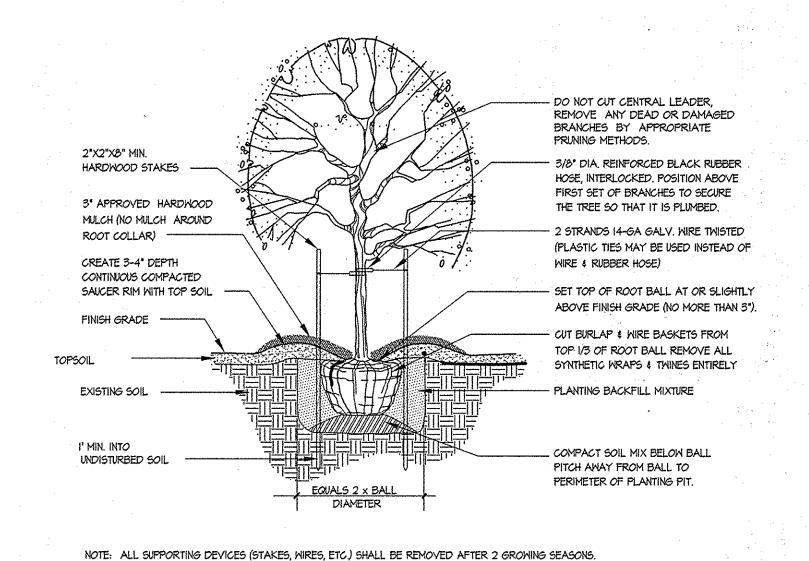
by the Howard Soil Conservation

ZONING

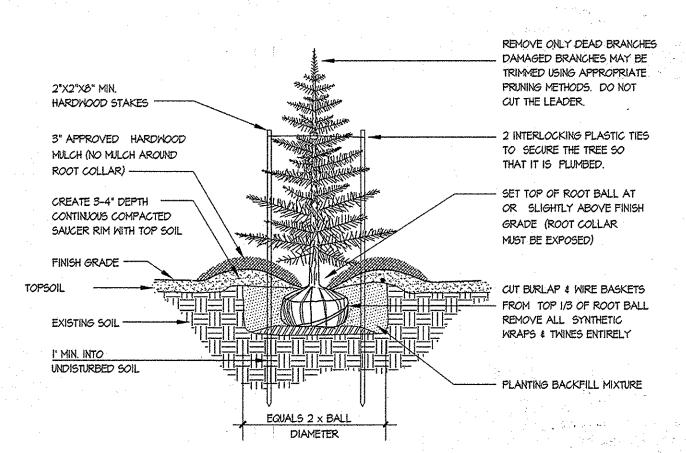
المراجعة المسترسية عبير سيرجين يكرانيك

SHIPLEY'S GRANT PARCEL A-I

-EX. ASPHALT PAVING

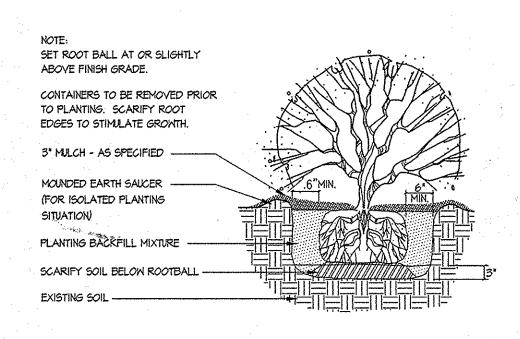


DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER



NOTE: ALL SUPPORTING DEVICES (STAKES, TIES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

EVERGREEN TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

SCHEDULE A: PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT PROPERTY	ROADWAY		
LANDSCAPE BUFFER TYPE	C			
LOCATION	PERIMETER #I	PERIMETER #2		
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	180 L.F.	l62 L.F.	·.	·
CREDIT FOR EXISTING VEGETATION	NONE	NONE		
CREDIT FOR WALL FENCE OR BERM	NONE	NONE		
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	5 q O	4 0 41		
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 90b) SHRUBS (10:1 90b) SUBSTITUTIONS	5000*	4 0 0 42 *		

\* OVERALL BUFFER FOR MD RTE 108 PROVIDED UNDER SDP 07-053.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE PER 'SCHEDULE A' HAS BEEN POSTED WITH THE GRADING PERMIT FOR SDP 07-053

SCHEDULE-B: PARKING LOT INTERNAL LANDSCAPING

	PARCEL A-2	OVERALL SITE (A-I & A-2)
NUMBER OF PARKING SPACES	53	180
NUMBER OF SHADE TREES REQUIRED		
(I PER 20 SPACES)	3	9
NUMBER OF ISLANDS REQUIRED	3	9
NUMBER OF TREES PROVIDED		
SHADE TREES	3 (EXISTING)	IO (EXISTING)
OTHER TREES (2:1 SUBSTITUTION)	NONE	NONE
NUMBER OF ISLANDS PROVIDED	3 (EXISTING)	10 (EXISTING)

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE PER 'SCHEDULE B' HAS BEEN POSTED WITH THE GRADING PERMIT FOR SDP 07-053. NO NEW LANDSCAPING IS REQUIRED.

PLAN LEGEND  $\triangle$ 

EXISTING SHADE TREE (PER SDP-07-053)

EXISTING EVERGREEN (PER SDP-07-053)

RELOCATED EVERGREEN

RELOCATED SHADE TREE

( EXISTING SHRUB (PER SDP-07-053)

EXISTING SHADE TREE OR EVERGREEN TO BE RELOCATED

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Chief, Division of Land Development SMF Chief, Development Engineering Division

GLWGUTSCHICK LITTLE &WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

\CADD\DRAWNGS\03006\08015\SDP\08015-SDP-0506.dwg | DES. mjt | DRN. mjt | CHK.

10/2014 LANDSCAPING REVISED FOR NEW LAYOUT △ REV BY APP'R. REVISION

PREPARED FOR: SHIPLEY'S GRANT PAD SITE, LLC /o BAVAR PROPERTIES GROUP, LL 1954 Greenspring Drive, SUITE 400 TIMONIUM, MARYLAND 21093 ATTN: ROBERT BAVAR 410-560-0300

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 14931
EXPIRATION DATE: MAY 21, 2010



ELECTION DISTRICT No. 1

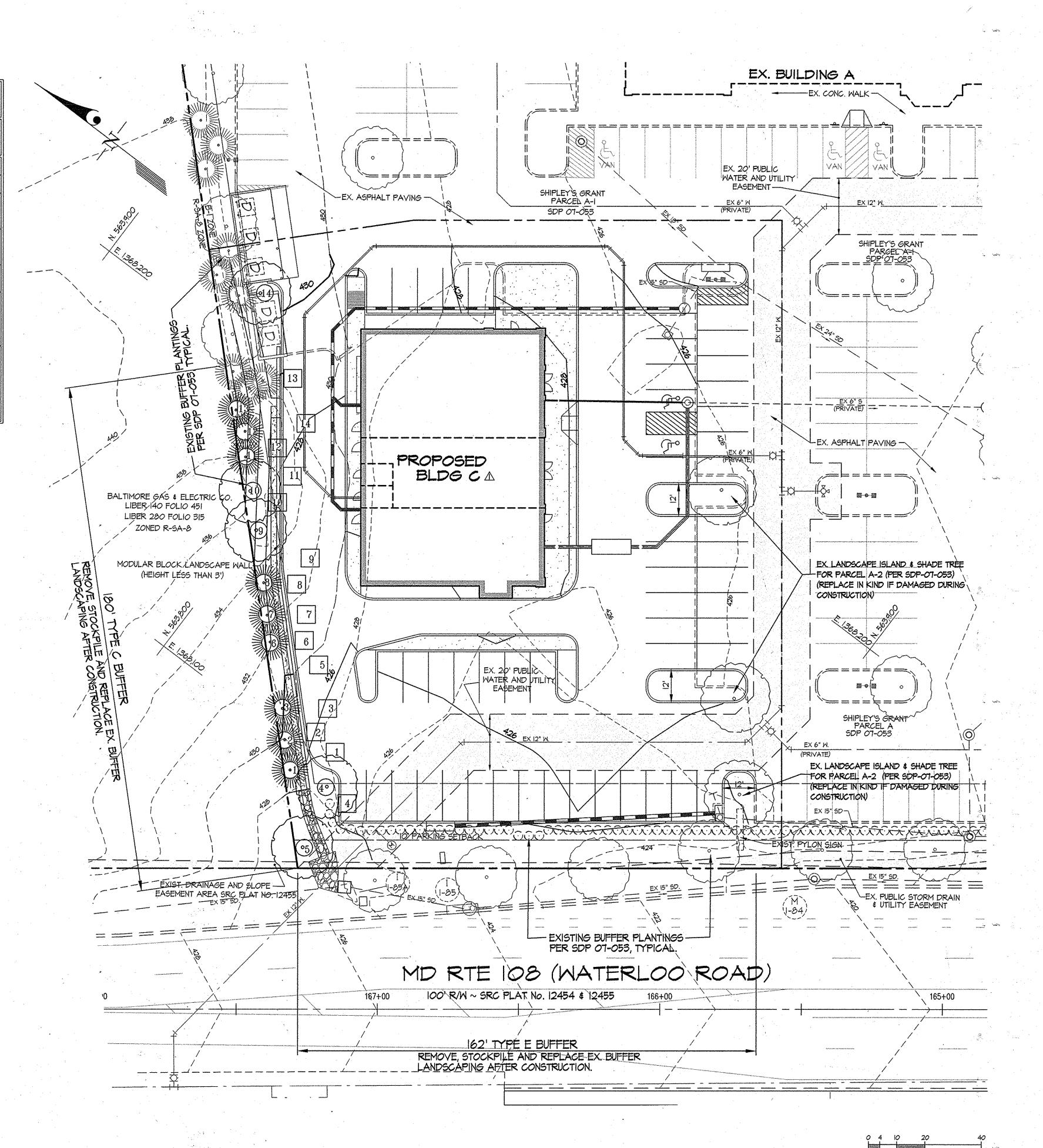
REVISED LANDSCAPE PLAN, SCHEDULES & PLANT DETAILS 1"=20' SHIPLEY'S GRANT PARCEL A-2 A TAX MAP - GRID PLAT No. 19232 & 22645 A OCT., 2014

HOWARD COUNTY, MARYLAND

G. L. W. FILE No.

08015

SHEET



#### SPECIFICATIONS: PLANT MATERIALS AND PLANTING METHODS

#### A. PLANT MATERIALS

THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.

#### I. PLANT NAMES

PLANT NAMES USED IN THE PLANT SCHEDULE SHALL CONFORM WITH "STANDARDIZED PLANT NAMES," LATEST EDITION.

#### 2. PLANT STANDARDS

ALL PLANT MATERIAL SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (HERE- AFTER REFERRED TO AS AAN STANDARDS). ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED AND WITH HEALTHY, WELL-FURNISHED ROOT SYSTEMS. THEY SHALL BE FREE OF DISEASE, INSECT PESTS AND MECHANICAL INJURIES.

ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATE CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BEFORE PLANTING. NEITHER HEELED-IN PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

#### 3. PLANT MEASUREMENTS

ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE AS APPROVED BY THE DESIGN REVIEW COMMITTEE (DRC).

A. CALIPER MEASUREMENTS SHALL BE TAKEN SIX INCHES (6") ABOVE GRADE FOR TREES UNDER FOUR-INCH (4") CALIPER AND TWELVE (12") ABOVE GRADE FOR TREES FOUR INCHES (4") IN CALIPER AND OVER.

B. MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX FEET (6'), MAXIMUM EIGHT FEET (6').

C. CALIPER, HEIGHT, SPREAD AND SIZE OF BALL SHALL BE GENERALLY AS FOLLOWS:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
3" - 3 <i>5</i> "	14'-16'	6'-8'	32" DIAMETER
3.5'- 4'	14'-16'	8'-10'	36" DIAMETER
4" - 4.5"	16'-18'	8'-10'	40" DIAMETER
45"- 5"	16'-17'	10'-12'	44" DIAMETER
5" - 5 <i>5</i> "	16'-20'	10'-12'	48" DIAMETER
5 <i>5</i> "- 6"	18'-20'	12'-14'	52" DIAMETER

ALL PLANT MATERIAL SHALL GENERALLY AVERAGE THE MEDIAN FOR THE SIZE RANGES INDICATED ABOVE AS INDICATED IN THE "AAN STANDARDS".

#### 4. PLANT IDENTIFICATION

LEGIBLE LABELS SHALL BE ATTACHED TO ALL SHADE TREES, MINOR TREES, SPECIMEN SHRUBS AND BUNDLES OR BOXES OF OTHER PLANT MATERIAL GIVING THE BOTANICAL AND COMMON NAMES, SIZE AND QUANTITY OF EACH. EACH SHIPMENT OF PLANTS SHALL BEAR CERTIFICATES OF INSPECTION AS REQUIRED BY FEDERAL, STATE AND COUNTY AUTHORITIES.

### 5. PLANT INSPECTION

THE DESIGN REVIEW COMMITTEE MAY, UPON REQUEST BY THE BUILDER OR DEVELOPER, AT LEAST TEN (IO) DAYS PRIOR TO THE INSTALLATION OF ANY PROPOSED PLANT MATERIAL, INSPECT ALL PROPOSED PLANT MATERIAL AT THE SOURCE OF ORIGIN.

#### B. PLANTING METHODS

ALL PROPOSED PLANT MATERIALS THAT MEET THE SPECIFICATIONS IN SECTION A ARE TO BE PLANTED IN ACCORDANCE WITH THE FOLLOWING METHODS DURING THE PROPER PLANTING SEASONS AS DESCRIBED IN THE FOLLOWING:

#### I. PLANTING SEASONS

THE PLANTING OF DECIDIOUS TREES, SHRUBS AND VINES SHALL BE FROM MARCH IST TO JUNE 15TH AND FROM SEPTEMBER 15TH TO DECEMBER 15TH. PLANTING OF DECIDIOUS MATERIAL MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDING THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.

THE PLANTING OF EVERGREEN MATERIAL SHALL BE FROM MARCH 15TH TO JUNE 15TH AND FROM AUGUST 15TH TO DECEMBER 1ST. NO PLANTING SHALL BE DONE WHEN THE GROUND IS FROZEN OR EXCESSIVELY MOIST. NO FROZEN OR WET TOPSOIL SHALL BE USED AT ANY TIME.

#### 2. DIGGING

ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (B&B) IN ACCORDANCE WITH THE "AAN STANDARDS".

#### 3. EXCAVATION OF PLANT PITS

THE LANDSCAPING CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES AND SHRUB BEDS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

A. LOCATIONS OF ALL PROPOSED PLANT MATERIAL SHALL BE STAKED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT BEFORE ANY OF THE PROPOSED PLANT MATERIAL IS INSTALLED BY THE LANDSCAPE CONTRACTOR.

B. ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, VERTICAL SIDES; DEPTH SHALL NOT BE LESS THAN 6" DEEPER THAN THE ROOT BALL, DIAMETER SHALL NOT BE LESS THAN TWO TIMES THE DIAMETER OF THE ROOT BALL AS SET FORTH IN THE FOLLOWING SCHEDULE.

C. IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE EXCAVATED TO AT LEAST IS" DEPTH MINIMUM. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE EXCAVATED TO AT LEAST 12" IN DEPTH MINIMUM.

D. DIAMETER AND DEPTH OF TREE PITS SHALL GENERALLY BE AS FOLLOWS:

PLANT SIZE	ROOT BALL	PIT DIA.	PIT DEPTH
3" - 3.5"CAL.	32*	64"	28°
35"- 4" CAL.	36"	72"	32"
4" - 4.5"CAL.	40"	8O"	36"
45"- 5" CAL.	44"	88"	40"
5" - 5.5"CAL.	48"	96"	44"
55"- 6" CAL.	52"	104"	48"

A 20 % COMPACTION FIGURE OF THE SOIL TO BE REMOVED IS ASSUMED AND WILL BE ALLOWED IN CALCULATION OF EXTRA TOPSOIL. THE TABULATED PIT SIZES ARE FOR PURPOSES OF UNIFORM CALCULATION AND SHALL NOT OVERRIDE THE SPECIFIED DEPTHS BELOW THE BOTTOMS OF THE ROOT BALLS.

### 4. STAKING, GUYING AND WRAPPING

ALL PLANT MATERIAL SHALL BE STAKED OR GUYED, AND WRAPPED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

A. STAKES: SHALL BE SOUND WOOD 2" x 2" ROUGH SAWN OAK OR SIMILAR DURABLE WOODS, OR LENGTHS, MINIMUM 7'-O" FOR MAJOR TREES AND 5'-O" MINIMUM FOR MINOR TREES. B. WIRE AND CABLE: WIRE SHALL BE #10 GA. GALVANIZED OR BETHANIZED ANNEALED STEEL WIRE. FOR TREES OVER 3" CALIPER, PROVIDE 5/16" TURN BUCKLES, EYE AND EYE WITH 4" TAKE-UP. FOR TREES OVER 5" CALIPER, PROVIDE 3/16", 7 STRAND CABLE CADMIUM PLATED STEEL, WITH GALVANIZED "EYE" THIMBLES OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.

C. HOSE: SHALL BE NEW, 2 PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D. "PLASTIC LOCK TIES" OR "PAUL'S TREES BRACES" MAY BE USED IN PLACE OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.

D. ALL TREES UNDER 3" IN CALIPER ARE TO BE PLANTED AND STAKED IN ACCORDANCE WITH: THE ATTACHED PLANTING DETAILS.

#### 5. PLANT PRUNING, EDGING AND MULCHING

A. EACH TREE, SHRUB OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER TO ITS PARTICULAR REQUIREMENTS, IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS FLUSH WITH THE ADJACENT TRUNK OR BRANCHES. ALL CUTS OVER I" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED ANTISEPTIC TREE WOUND DRESSING.

B. ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT. SOD WHICH HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGES OF SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS.

C. AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A 3" LAYER OF FINE, SHREDDED PINE BARK, PEAT MOSS, OR ANOTHER APPROVED MATERIAL OVER THE ENTIRE AREA OF THE BED OR SAUCER.

#### 6. PLANT INSPECTION AND ACCEPTANCE

THE DESIGN REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR INSPECTING ALL PLANTING PROJECTS ON A PERIODIC BASIS TO ASSURE THAT ALL WORK IS PROCEEDING IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

#### 7. PLANT GUARANTEE

ALL PLANT MATERIAL SHALL BE GUARANTEED FOR THE DURATION OF ONE FULL GROWING SEASON, AFTER FINAL INSPECTION AND ACCEPTANCE OF THE WORK IN THE PLANTING PROJECT. PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.

A. FOR THIS PURPOSE, THE "GROWING SEASON" SHALL BE THAT PERIOD BETWEEN THE END OF THE "SPRING" PLANTING SEASON, AND THE COMMENCEMENT OF THE "FALL" PLANTING SEASON.

B. GUARANTEE FOR PLANTING PERFORMED AFTER THE SPECIFIED END OF THE "SPRING" PLANTING SEASON, SHALL BE EXTENDED THROUGH THE END OF THE NEXT FOLLOWING "SPRING" PLANTING SEASON.

#### <u>SODDING</u>

ALL SODDING SHALL BE IN ACCORDANCE TO THE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" LATEST EDITION, APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.

ALL SOD SHALL BE STRONGLY ROOTED SOD, NOT LESS THAN TWO YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH DEVELOPMENT WHEN PLANTED AND IN STRIPS NOT MORE THAN 18" WIDE X 4" LONG. PROVIDE SOD COMPOSED PRINCIPALLY OF IMPROVED STRAIN KENTUCKY BLUEGRASS, SUCH AS, COLUMBIA, VICTA, OR ESCORT.

	PLANT LIST					
SYMBOL	QUANT.	SIZE	NAME (BOTANICAL/COMMON) OF PLANTS FOR SELECTION BY OWNER/BUYER	COMMENTS		
6	2	25-3" CAL.	Gleditsia triacanthos inermis 'imperial'/ imperial Thorniess Honeylocust	B4B		

NOTE: FINANCIAL SURETY FOR THE TOTAL REQUIRED LANDSCAPING PER THE SCHEDULES SHALL BE POSTED AS PART OF GRADING PERMIT ASSOCIATED WITH THIS SDP. THE LANDSCAPE SURETY IS \$600.00 FOR THE FOLLOWING:

2 SHADE TREES @ \$300.00 EA

= \$600.00

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director

Date

Chief, Division of Land Development

Chief, Development Engineering Division

Date

GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

\CADD\DRAWNGS\03006\08015\SDP\08015-SDP-0506.dwg | DES. mit | DRN. mit | CHK.

DATE REVISION BY APP'R.

PREPARED FOR:

SHIPLEY'S GRANT RETAIL, LLC

c/o BAVAR PROPERTIES GROUP, LLC

1966 GREENSPRING DRIVE, SUITE 508

TIMONIUM, MARYLAND 21093

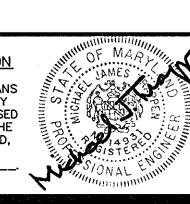
ATTN: MICHAEL SHEEDY

410-560-0300

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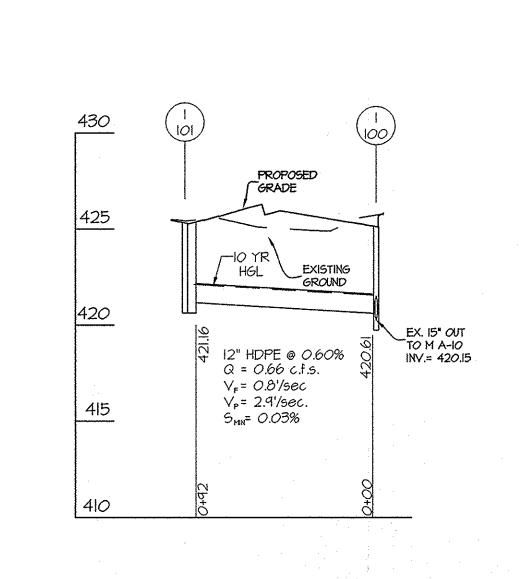
PROFESSIONAL CERTIFICATION

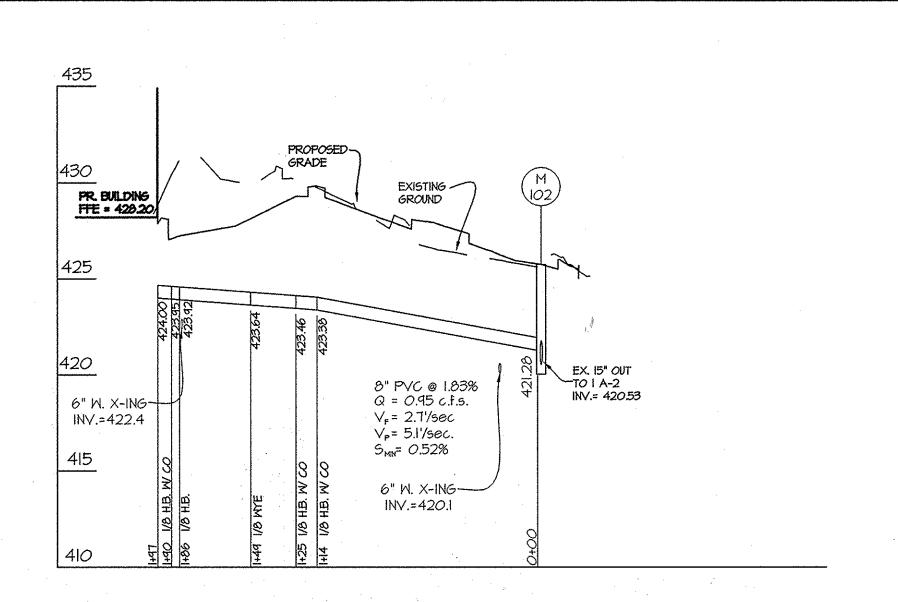
I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 14931
EXPIRATION DATE: MAY 21, 2010



LANDSCAPE NOTES AND	PLANT LIST	SCALE	ZONING	G. L. W. FILE No.
SHIPLEY'S GRA	NT	AS SHOWN	B-1	08015
PARCEL A PLAT No. 19232		DATE	TAX MAP — GRID	SHEET
ELECTION DISTRICT No. 1	HOWARD COUNTY, MARYLAND	MARCH, 2010	37 – 1	6 OF 7

DP-10-046





PROPOSED-

4" S. @ 2.00% 4" S. (IN) INV= 421.69

# STORM DRAIN PROFILE A

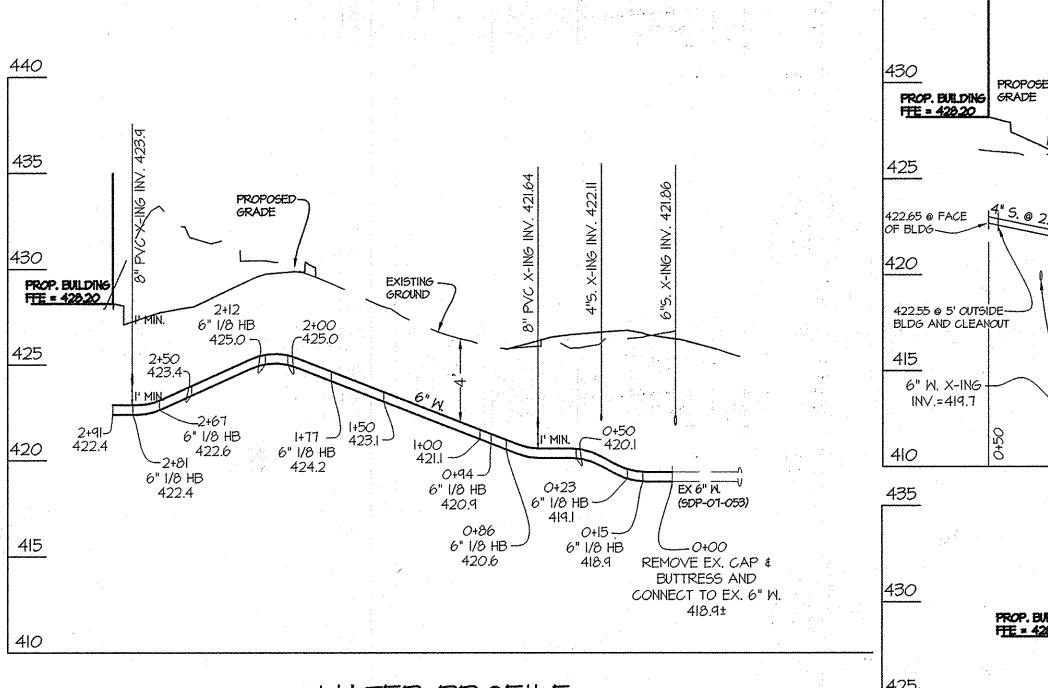
SCALE: I" = 50' HORIZONTAL I" = 5' VERTICAL

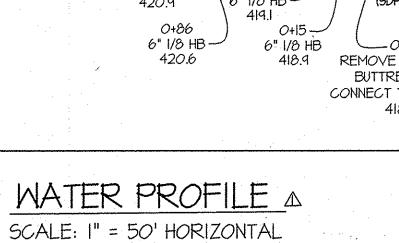
# STORM DRAIN PROFILE A

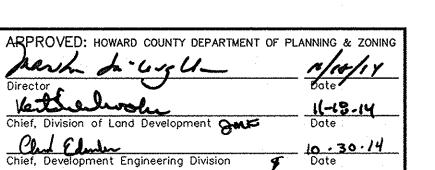
SCALE: I" = 50' HORIZONTAL I" = 5' VERTICAL

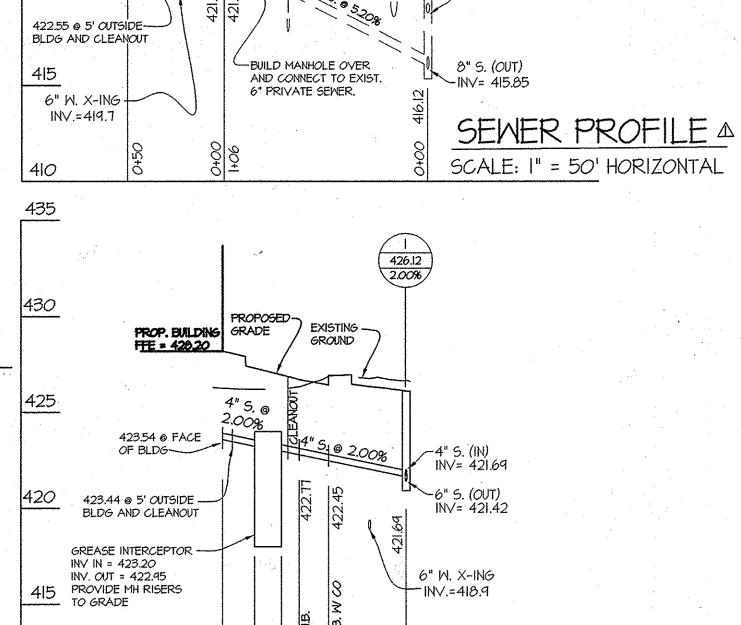
	S.D. STRUCTURE SCHEDULE A									
		WIDTH	TOP ELI	EVATION	INVERT E	LEVATION				
NO.	TYPE	(INSIDE)	UPPER	LOWER	UPPER	LOWER	STANDARD DETAIL	NOTES		•
1-100	A-10	2'-6"	425.14	ena 140 mas	420.61	420.15	HO. CO. SD 4.03			•
1-101	DOUBLE WR	2'-6"	425.67	425.55	422.24	421.16	HO. CO. SD 4,35			
M-102	MANHOLE	4'-O"	425.75		421.28	420.53	HO. CO. G 5.12			

S.D.	Pipe S	Summ	ary Table	Δ
Size (in.)	Туре	Quantity (L.F.)	Remarks	
8	PVC	197	5CH. 40	
12	HDPE	92	ADS N12 or equiv.	
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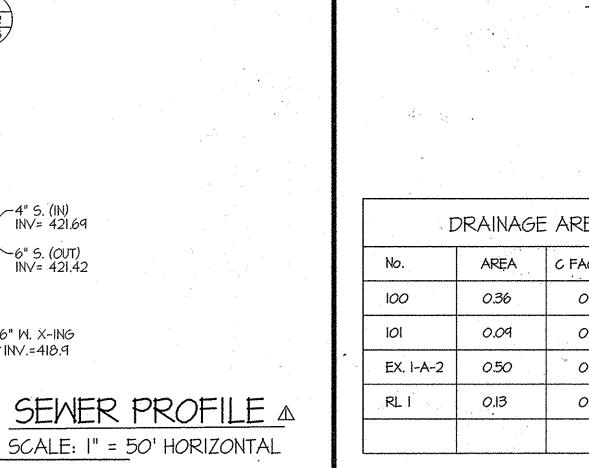


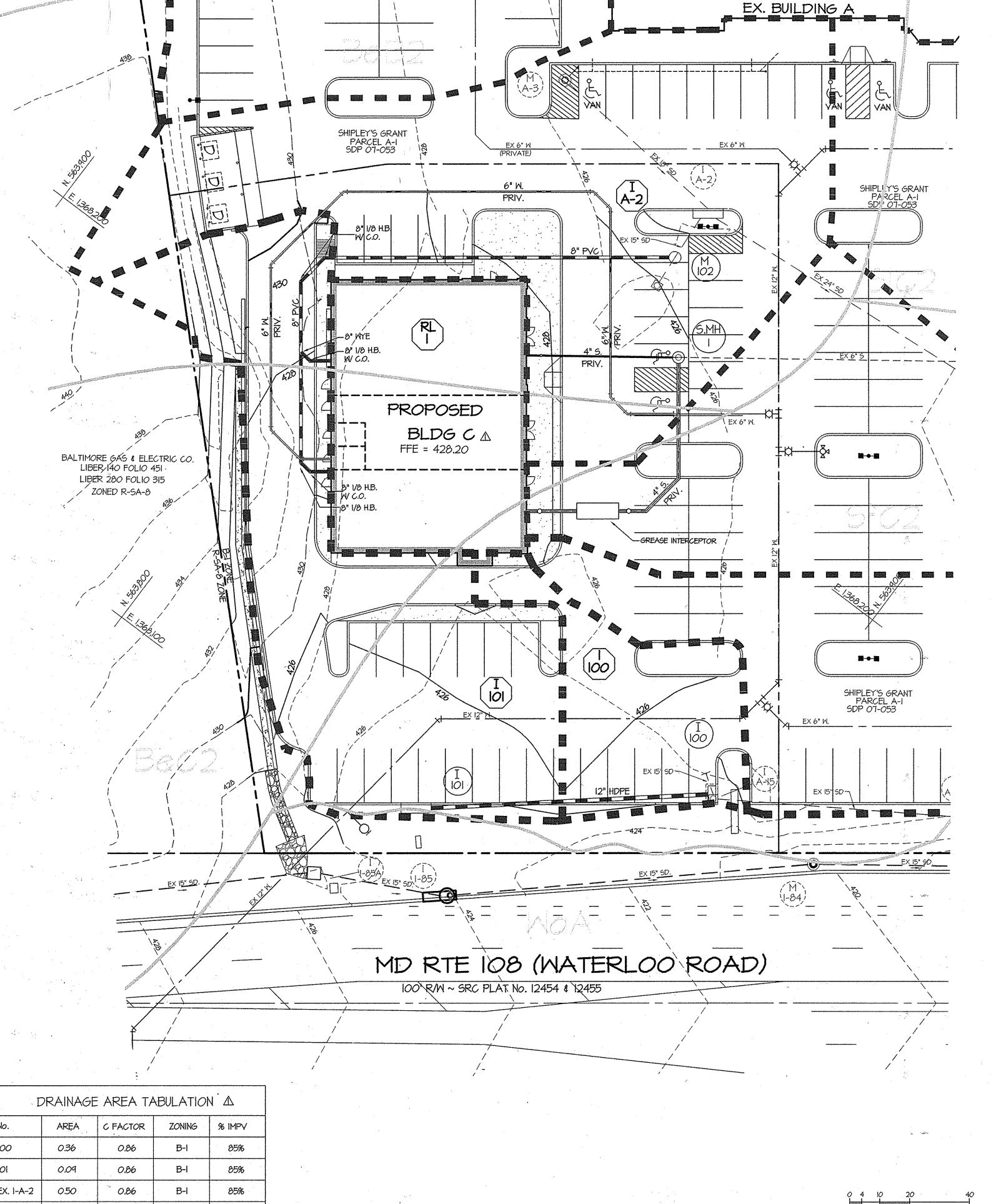






EXISTING GROUND





DRAINAGE AREA TABULATION A								
No.	AREA	C FACTOR	ZONING	% IMPV				
100	0.36	0.86	B-I	85%				
IOI	0.09	0.86	B-I	85%				
EX. I-A-2	0.50	0.86	B-I	85%				
RL I	0.13	0.86	B-I	100%				

1 inch = 20 ft.

GLWGUTSCHICK LITTLE &WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866

GLWGutschick Litt	TLE &W	VEBER,	P.A.	ř
CIVIL ENGINEERS, LAND SURVEYORS, LAND PL. 3909 NATIONAL DRIVE – SUITE 250 – BI BURTONSVILLE, MARYLANI TEL: 301–421–4024 BALT: 410–880–1820 DC/VA:	URTONSVILLE O 20866	FFICE PARK		S
ADD\DRAWNGS\03006\08015\SDP\08015-SDP-07.dwg				

©GLW 2014

ITECTS										Ĭ
4186					<u> </u>		<del></del>			
4180	10/2014	DRAINAGE A	reas and utility P	ROFILES REVISED F	OR BUILDING	C LAYOUT	$\overline{\Lambda}$			
ŀK.	DATE			REVISION		0 2001	<u> </u>	BY	APP'R.	1

PREPARED FOR: SHIPLEY'S GRANT PAD SITE, LLC c/o BAVAR PROPERTIES GROUP, LLC 1954 Greenspring Drive, SUITE 400 TIMONIUM, MARYLAND 21093 ATTN: ROBERT BAVAR 410-560-0300

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14931

EXPIRATION DATE: MAY 21, 2016



REVISED UTIL	ITY PROFILES & STORM DRAIN	DRAINAGE AREA MAP	SCALE	ZONING	G. L. W. FILE No.
	SHIPLEY'S GRANT		AS SHOWN	B-1	08015
· ·	PARCEL A-2 <b>△</b> PLAT No. 19232 & 22645 <b>△</b>		DATE	TAX MAP — GRID	SHEET
TION DISTRICT No. 1		HOWARD COUNTY, MARYLAND	OCT., 2014	37 – 1	7 OF 7