SHEET INDEX SHEET NO. DESCRIPTION TITLE SHEET GENERIC BOXES & HOUSE TYPES SITE DEVELOPMENT PLAN SHEETS, LOTS 130 THRU 140 SITE DEVELOPMENT PLAN SHEETS, LOTS 141 THRU 159 SEDIMENT EROSION CONTROL PLAN SHEETS, LOTS 141 THRU 159 SEDIMENT EROSION CONTROL NOTES & DETAILS STORMWATER MANAGEMENT NOTES, DETAILS AND DRYWELL CHART

SITE DEVELOPMENT PLAN ENCLAVE AT RIVER HILL PHASE 3

LOTS 130 THRU 159 & PART OF OPEN SPACE LOTS 128 AND 160 R-ED (RESIDENTIAL: ENVIRONMENTAL DEVELOPMENT) TAX MAP No. 34 GRID No. 18 PARCEL NO. 88 HOWARD COUNTY, MARYLAND

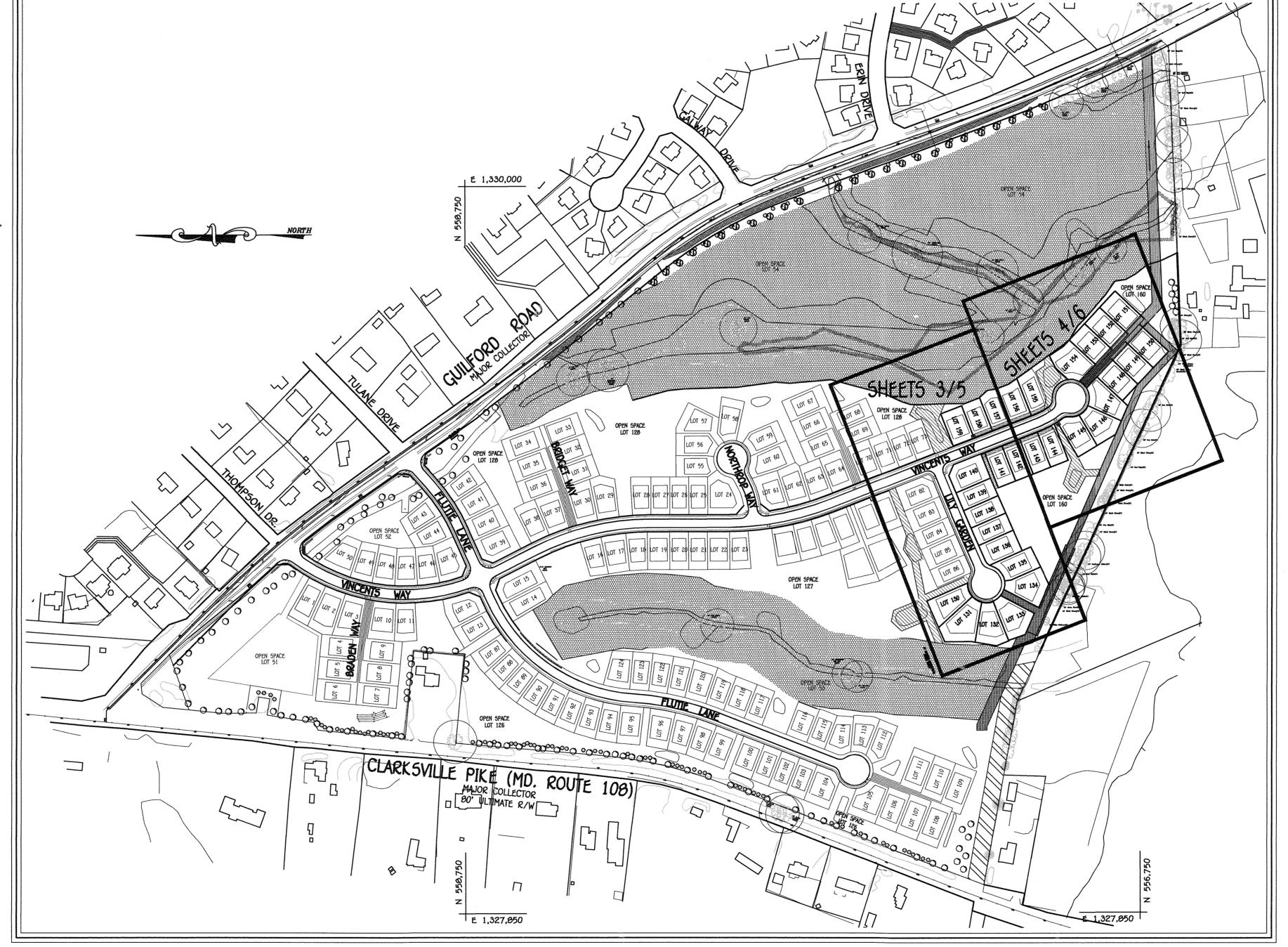
ADD	RESS CHART
LOT NO.	STREET ADDRESS
130	6122 LILY GARDEN
131	6126 LILY GARDEN
132	6130 LILY GARDEN
133	6131 LILY GARDEN
134	6127 LILY GARDEN
135	6123 LILY GARDEN
136	6119 LILY GARDEN
137	6115 LILY GARDEN
138	6111 LILY GARDEN
139	6107 LILY GARDEN
140	6103 LILY GARDEN
141	12630 VINCENTS WAY
142	12642 VINCENTS WAY
143	12646 VINCENTS WAY
144	12650 VINCENTS WAY
145	12654 VINCENTS WAY
146	12658 VINCENTS WAY
147	12662 VINCENTS WAY
148	12666 VINCENTS WAY
149	12670 VINCENTS WAY
150	12674 VINCENTS WAY
151	12673 VINCENTS WAY
152	12669 VINCENTS WAY
153	12665 VINCENTS WAY
154	12661 VINCENTS WAY
155	12651 VINCENTS WAY
156	12647 VINCENTS WAY
157	12643 VINCENTS WAY
158	12639 VINCENTS WAY
159	12635 VINCENTS WAY

	SITE	AN	AL'	1515	DA	ATA	
•	TOTAL	AREA	OF	SITE	= 88	3.96	-
	TOTAL	AREA	OF	THI5	5UB1	4155	IO
	LIMIT (OF DIS	TUR	BED	AREA	=	6.

- PROPOSED USE: SINGLE FAMILY DETACHED FLOOR SPACE ON EACH LEVEL OF BUILDING: N/A TOTAL NUMBER OF UNITS: 30 UNITS TOTAL NUMBER OF PARKING SPACES REQUIRED = 75 SPACES TOTAL NUMBER OF PARKING SPACES PROVIDED = 120 SPACES OPEN SPACE ON SITE: 3.912 AC. ± (LOT 128 & 160)
- PREVIOUS HOWARD COUNTY FILES: ECP-15-005, PB CASE NO. 409, 5P-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-18-031, SDP-17-013, SDP-17-014 & SDP-18-032 M. TOTAL AREA OF FLOODPLAIN: 0.00 AC. ±
- N. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.000 AC. \pm O. AREA OF WETLANDS = 0.00 AC. ±

		, , _ ,	-		
Ρ.	AREA OF	FOREST =	= (0.00	AC.±
Q.	IMPERVIO	US AREA =	== 4	14%	AC.±

	LEGEND						
5YMBOL	DESCRIPTION						
412	EXISTING CONTOUR 2' INTERVAL						
410	EXISTING CONTOUR 10' INTERVAL						
412	PROPOSED CONTOUR 2' INTERVAL						
410	PROPOSED CONTOUR 10' INTERVAL						
×411.27	SPOT ELEVATION						
15"RCCP	PROPOSED STORM DRAIN PIPE						
# 5	EXISTING SEWER						
	EXISTING WATER						
	LIMIT OF DISTURBANCE						
55F	SUPER SILT FENCE						
5F	SILT FENCE						
	15-24% 5LOPE5						
	25% OR GREATER SLOPES						
	'B' 50IL5						
	'C' 50IL5						
	ERODABLE SOILS						
	WETLANDS						
	100 YEAR FLOODPLAIN						
	STREAM BUFFER						
nger un mehr kasan ang dimensi kan kanan kang di pin kanan kanan kanan kang di pinan kanan kanan kanan kanan k	DRAINAGE DIVIDE						
\boxtimes	DRYWELL (M-5)-TYPICAL						
	BIO RETENTION FACILITY						
	(F-6) OR (M-6) A5 NOTED						
BING A	AS NOTED						
	SPECIMEN TREE						
	(TO BE REMOVED)						
	PUBLIC WATER, SEWER & UTILITY EASEMENT						
	RECREATIONAL OPEN SPACE						
	USE IN COMMON ACCESS EASEMENT						
YYYY	FOREST CONSERVATION EASEMENT						
	STREET TREES						

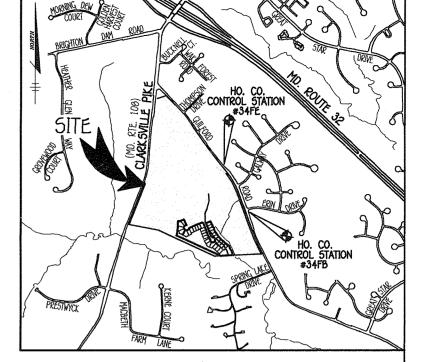


BENCH MARKS T.P. 34FB ELEV. 406.148 N. 557,439.913

GUILFORD ROAD & GALWAY DR. T.P. 34FE ELEV. 431.110 N. 558,339.601 E. 1,329,709.025 LOC. NEAR I-95 BRIDGE

LOC. NEAR INTERSECTION OF

LOC. NEAR INTERSECTION OF GUILFORD ROAD & ERIN DR.



5CALE: 1" = 2000'

- AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
- PRIOR TO ANY EXCAVATION WORK. 4. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: ECP-15-005, PB CASE NO. 409. 5P-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-10-031, 5DP-17-013,
- 5DP-17-014 & 5DP-18-032. 5. THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON C
- ABOUT FEBRUARY. 2014 BY FISHER. COLLINS & CARTER INC.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS. HOWARD COUNTY MONUMENT 34FB N 557,439.913 E 1,330,191.322
- HOWARD COUNTY MONUMENT 34FE N 558,339.601 E 1,329,709.025 ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE
- THIS PLAN IS FOR HOUSE SITING, AND GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE SEE APPROVED ROAD CONSTRUCTION PLANS F-17-003. FOR APPROVED WATER CONTRACT
- NO. 34-4888-D AND FOR APPROVED SEWER CONTRACT NO. 34-4992-D.
- APPROVED ON THE ROAD CONSTRUCTION DRAWINGS FILED UNDER F-17-003.

- DISTANCE DOES APPLY TO THE SECOND STORY OVERHANG. ALSO, IN THE R-ED ZONING DISTRICT

MORE THAN 60% OF THE REAR FACE OF THE DWELLING ON A LOT WHICH ADJOINS OPEN SPACI

- ALONG A MAJORITY OF THE LOT. 17. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE
- FOLLOWING (MINIMUM) REQUIREMENTS A.) WIDTH - 12' (16' IF SERVING MORE THAN ONE RESIDENCE) B.) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING
 - C.) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45 FOOT
 - D.) STRUCTURES (BRIDGES/CULVERTS) CAPABLE OF SUPPORTING 25 GROSS TONS
 - (H25-LOADING) E.) DRAINAGE ELEMENTS CAPABLE OF SAFETY PASSING 100 YEAR FLOOD WITH NO
- MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
- F.) STRUCTURE CLEARANCES MINIMUM 12 FEET G.) MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE.
- 16. MODERATE INCOME HOUSING UNITS (M.I.H.U.) REQUIREMENTS FOR PHASE 3 OF THE ENCLAVE AT RIVER HILL HAVE BEEN SATISFIED UNDER F-10-031. THE REQUIRED 3 M.I.H.U. (30 LOTS X 10%) HAVE BEEN SATISFIED BY THE DEVELOPER THROUGH AN ALTERNATIVE COMPLIANCE AND PAYMENT OF A FEE-IN-LIEU TO THE HOWARD COUNTY HOUSING DEPARTMENT. AN EXECUTED M.I.H.U. AGREEMENT WITH THE HOWARD COUNTY HOUSING DEPARTMENT HAS BEEN COMPLETED.
- 19. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE FOR ALL THE USE IN COMMON DRIVEWAYS. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS
- 20. FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT
- 21. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(5), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.

Please Note That All Lots In This Subdivision Are Subject To The Moderate Income Housing Unit (M.I.H.U.) Fee-In-Lieu Requirement. Developer Will Pursue Alternative Compliance By Paying A Fee-In-Lieu.

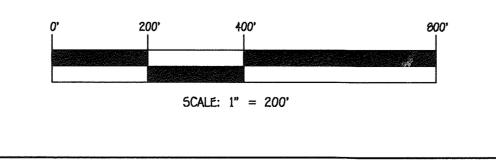




PROFESSIONAL CERTIFICATION

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE

OWNER TIERNEY FARMS-CLARKSVILLE, LP. 24151 VENTURA BOULEVARD CALABASAS, CALIFORNIA 91302 818-385-3697



DEVELOPER BEAZER HOMES, LLC. 8965 GUILFORD ROAD COLUMBIA, MD 21046 ATTN: MR. BRIAN KNAUFF 443-539-9249

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 7-19-18 7-24-18 PROJECT PARCEL NOs. ENCLAVE AT RIVER HILL BLOCK NO. TAX/ZONE ELEC. DIST. CENSUS TR 24650 -605102 R-ED 24653 PREVIOUS HOWARD COUNTY FILES: ECP-15-005, PB CASE NO. 409, SP-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-18-031, 50P-17-013, 50P-17-014 & 50P-18-032

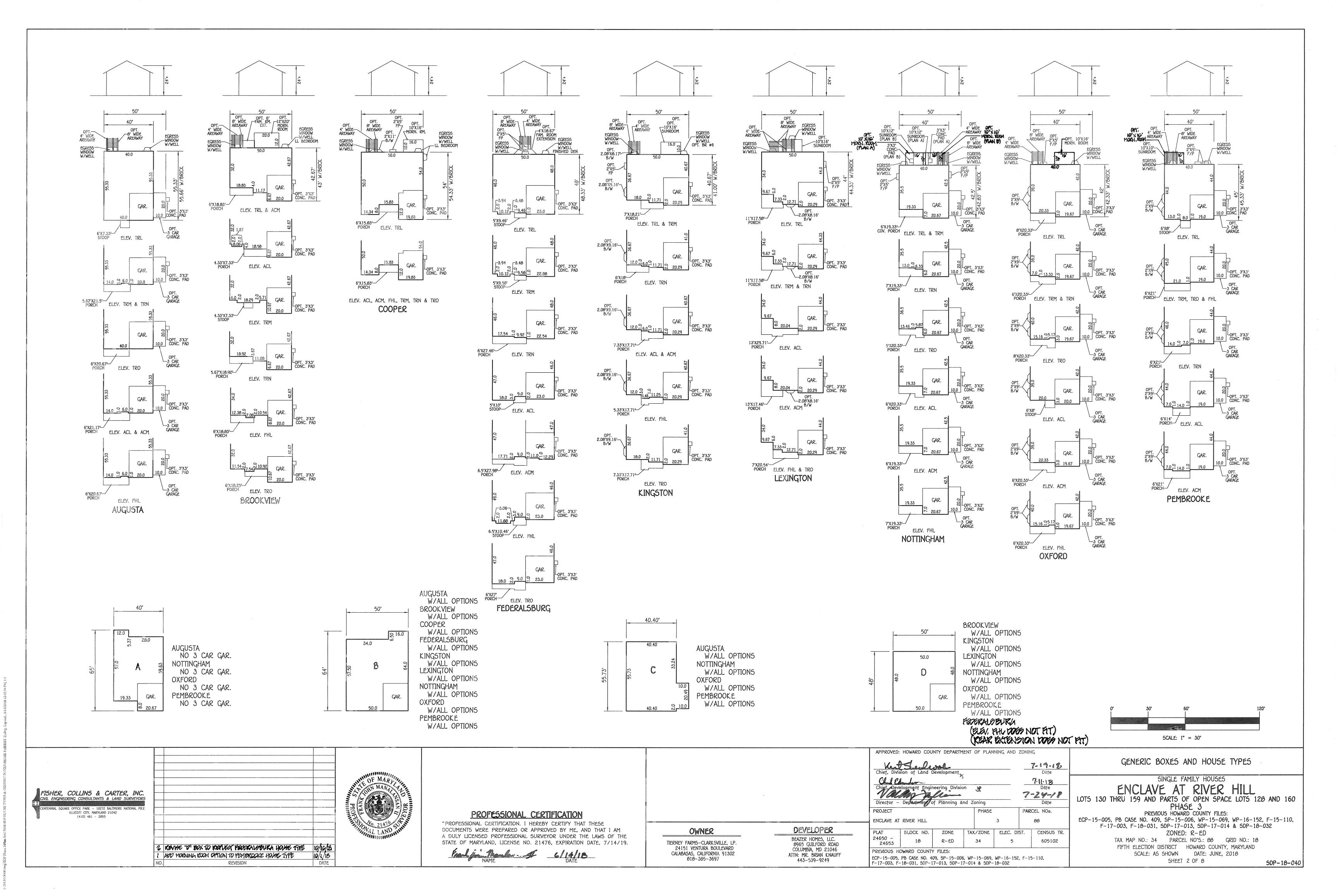
TITLE SHEET

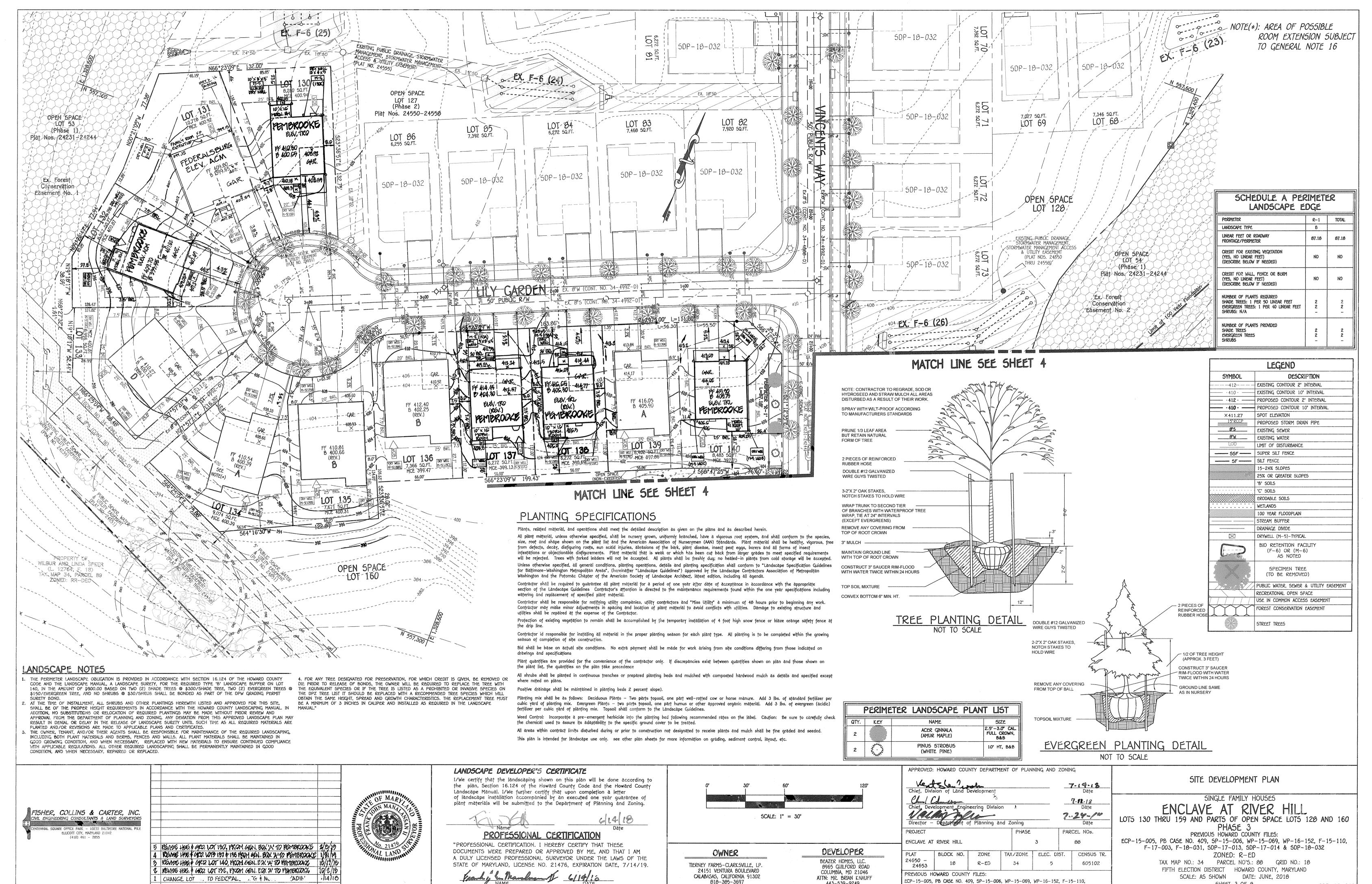
SINGLE FAMILY HOUSES LOTS 130 THRU 159 AND PARTS OF OPEN SPACE LOTS 128 AND 160

PREVIOUS HOWARD COUNTY FILES: ECP-15-005, PB CASE NO. 409, SP-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-10-031, 5DP-17-013, 5DP-17-014 & 5DP-10-032 ZONED: R-ED

TAX MAP NO.: 34 PARCEL NO'5.: 88 GRID NO.: 18 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JUNE, 2018

SHEET 1 OF 8 5DP-18-040





818-385-3697

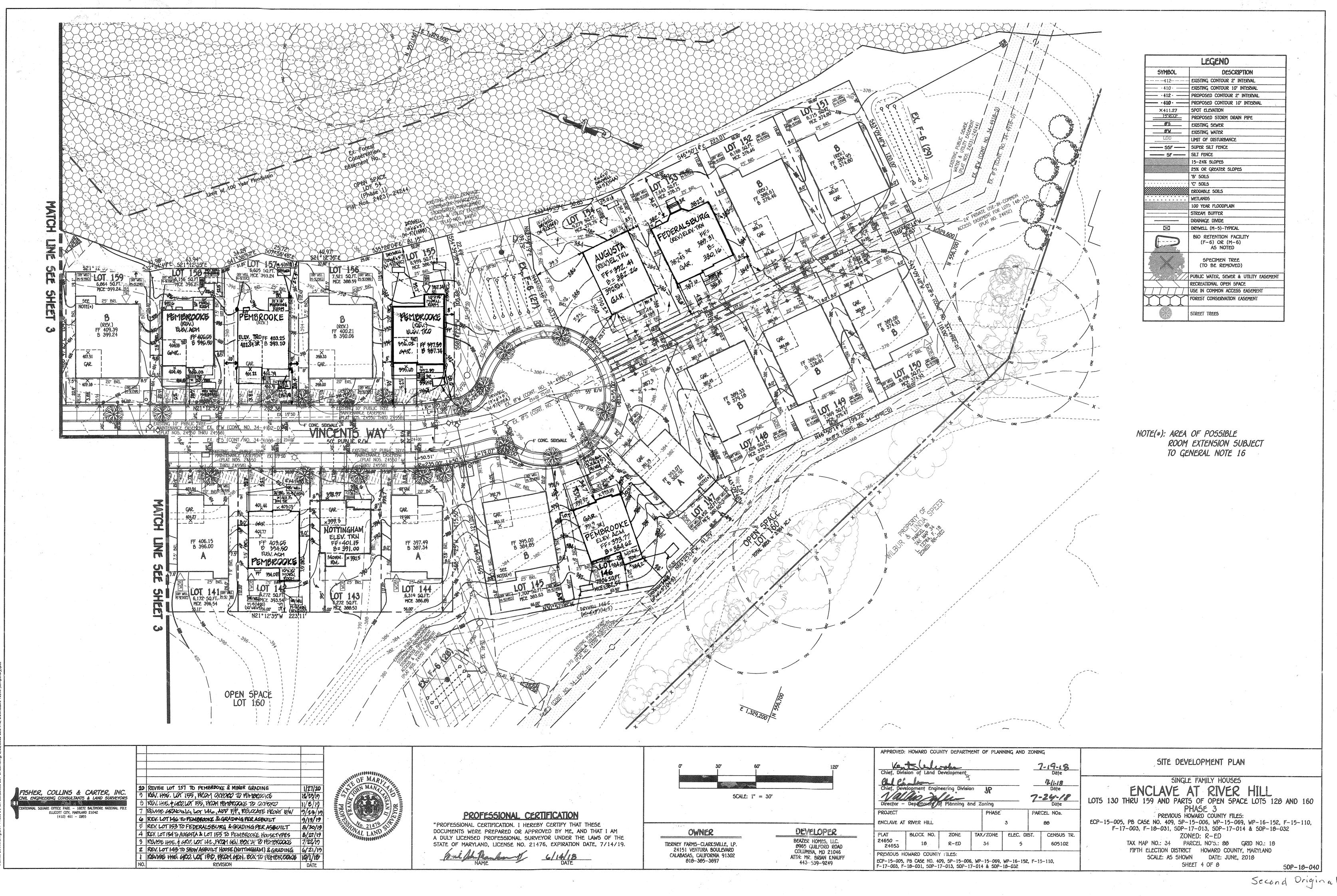
443-539-9249

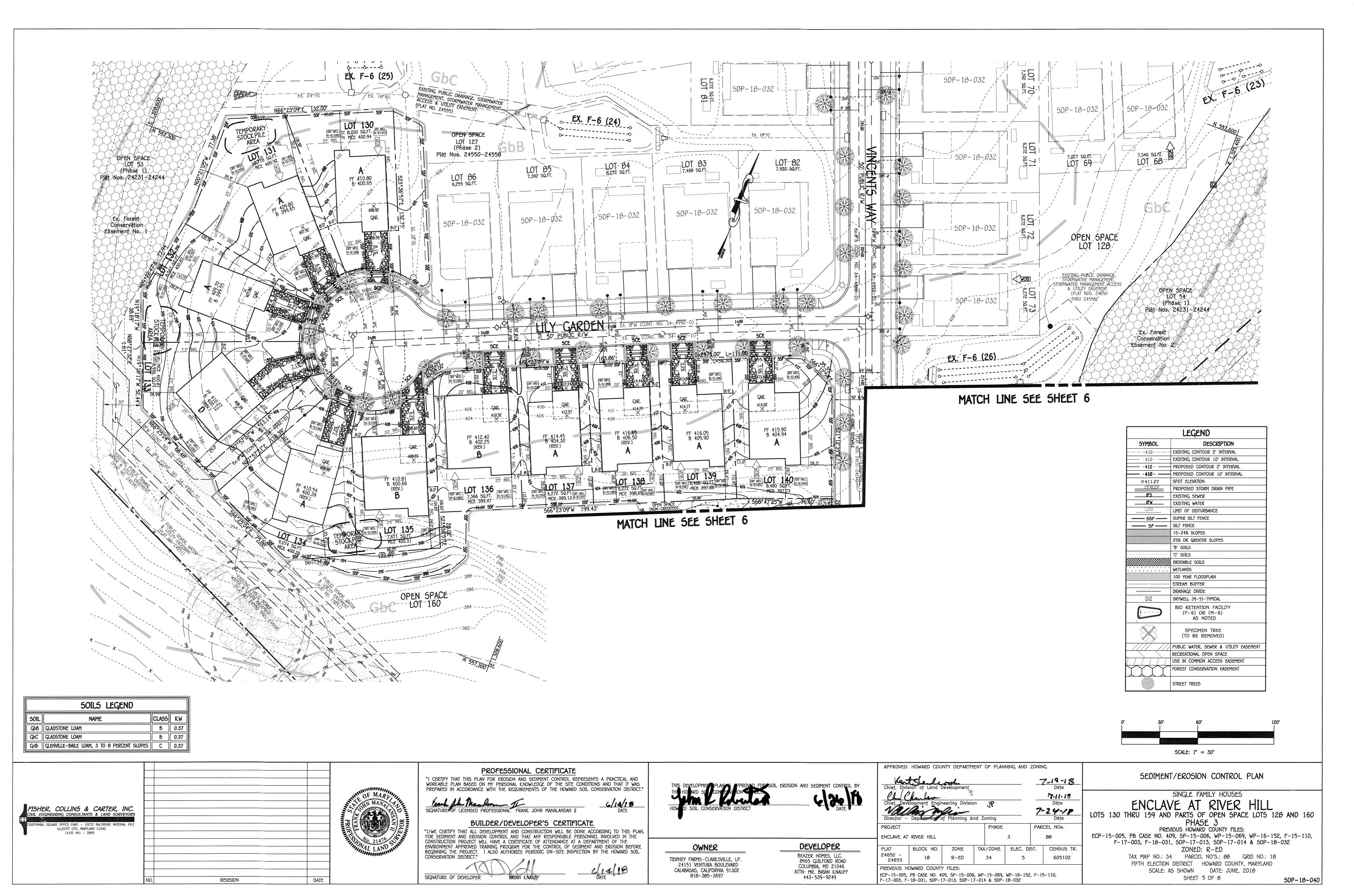
£CP-15-005, PB CASE NO. 409, 5P-15-006, WP-15-069, WP-16-152, F-15-110,

F-17-003, F-10-031, 5DP-17-013, 5DP-17-014 & 5DP-10-032

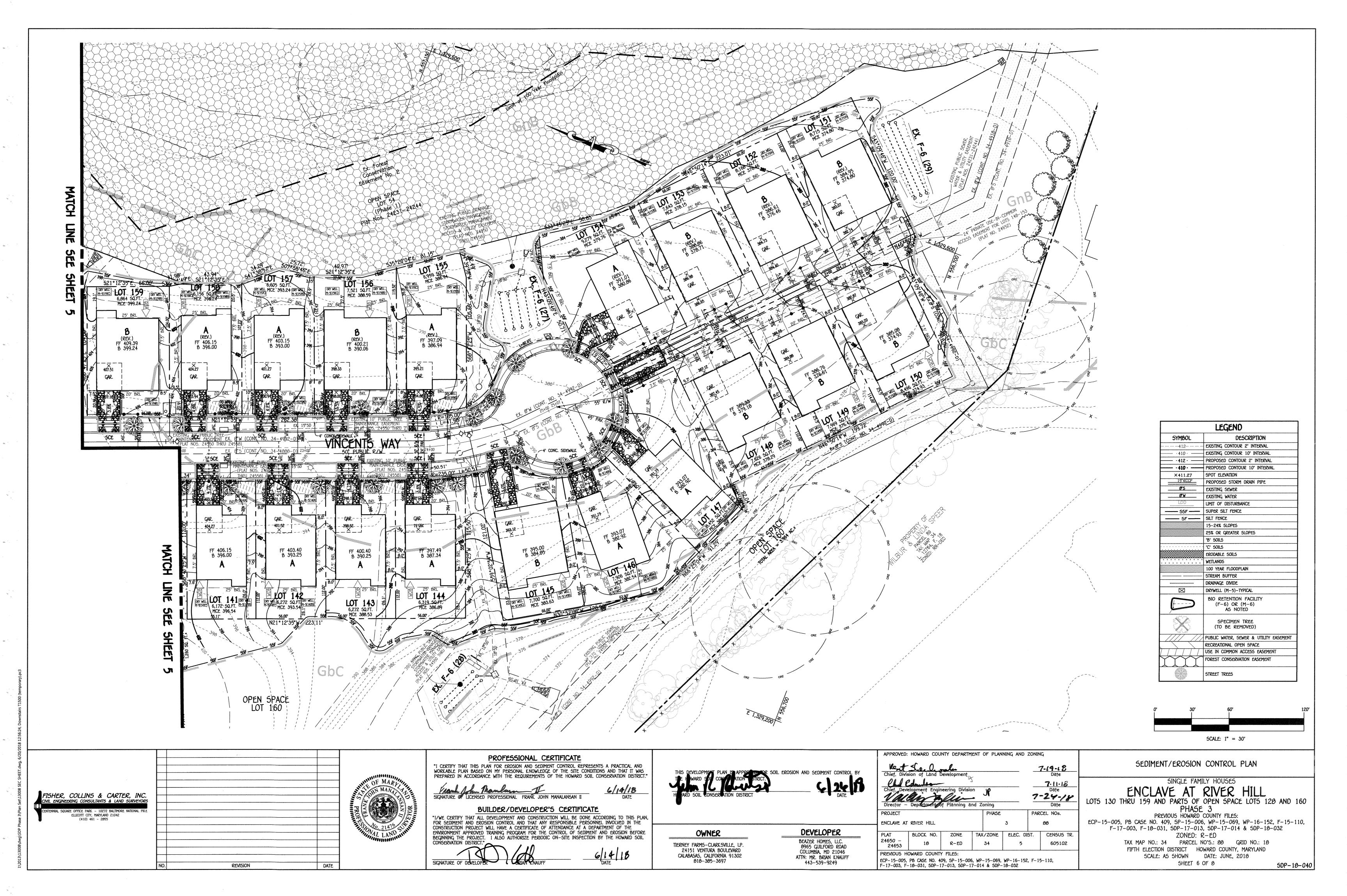
SHEET 3 OF 8

50P-18-040





3008'dwg\SDP Phase 3\Plan Set\13008 SEC SHEET.dwg, SEC, 6/14/2018 12:06:43 PM, 1



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

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION FOUIPMENT AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRACGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION, SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. 2. PERMANENT STABILIZATION

A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: I. SOIL PH BETWEEN 6.0 AND 7.0.

IL SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE

IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.

; graded areas must be maintained in a true and even grade as specified on the approved plan. Then SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES. D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST. E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN REAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE

SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, TRACK SLOPES 3:1 OR FLATTER. WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE

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

THESE SPECIFICATIONS, TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS. 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR

FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN. 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA: A. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN

LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, or other materials larger than 1 1/2 inches in diameter. B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IV. THISTLE, OR OTHERS AS SPECIFIED

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

A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL B. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed

C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS) 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

2 FERTILIZES MUST BE UNIFORM IN COMPOSITION FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE FOUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE. 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY

DISKING OR OTHER SUITABLE MEANS. 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL

DUST CONTROL

CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

<u>PURPOSE</u> TO PREVENT RIGHTING AND MOVEMENT OF DUST FROM EXPOSED S SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE

DAMAGE IS LIKELY WITHOUT TREATMENT.

TEMPORARY METHODS 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.

2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED REFORE SOIL BLOWING STARTS, REGIN PLOWING ON WINDWARD SIDE OF THE SITE, CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT

4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.

5. BARRIERS - SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DIKES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CONTROLLING SOIL BLOWING. CURRENTS AND SOIL BLOWING. CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN 6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS 1. PERMENENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOD, EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. 2. TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIALS, SEE STANDARDS FOR TOPSOILING. 3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

TEMPORARY SEEDING NOTES (B-4-4)

DEFINITION TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS

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

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

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS F THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER

AND LIME RATES MUST BE PUT ON THE PLAN. 2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.

3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION 8-4-3.A.1.8 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON. TEMPORARY SEEDING SUMMARY

HARDINESS SEED MIXTU	ZONE (FROM FIGURE RE (FROM TABLE B.1	FERTILIZER RATE (10-20-20)	LIME RATE		
5PECIES	APPLICATION RATE (LB/AC)	5EEDING DATES	SEEDING DEPTHS	(10 10 10)	
BARLEY	96		1"	425 10 445	2 TONS/AC
OAT5	72	3/1 - 5/15, 0/15 - 10/15	1"	436 LB/AC (10 LB/ 1000 5F)	(90 LB/ 1000 5F)
RYE	112		1"	1000 317	1000 31)

REVISION

PERMANENT SEEDING NOTES (B-4-5)

1. GENERAL USE A SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(5), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

3. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES. 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 - CRITICAL AREA PLANTING. C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO

2. TURFGRASS MIXTURES A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS. PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE, ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT . Kentucky bluegrass: full sun mixture: for use in areas that receive intensive management.

THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.

IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEPTING RATE: 2 POLINOS

IXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY

ONE OR MORE CULTIVARS MAY BE BLENDED.

IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO \$77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE

. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 OCTOBER 1 (HARDINESS ZONES: 58, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 1 (HARDINESS ZONE: 6B) SOUTHERN MD. EASTERN SHORE: MARCH 1 TO MAY 15. AUGUST 15 TO OCTOBER 1 (HARDINESS ZONES: 7A. 7B) D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/ nches in diameter the resulting seedbed must be in such condition that future moving of

E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY

DEGMANISHT ESSOINC CHIMMAON

HARDINESS ZONE (FROM FIGURE B.3): 68 SEED MIXTURE (FROM TABLE B.3): 8						R RATE (10	-20-20)	LIME RATE
_	Ι	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ 0	
8	TALL FESCUE	100	MAR. 1-MAY 15 AUG. 15-OCT. 15	1/4-1/2 IN.	45 LBS. PER ACRE (1.0 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 5F)	2 TON5/AC (90 LB/ 1000 5F)

B. 500: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. GENERAL SPECIFICATIONS

A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE B. 500 MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS TO 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH, BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. 50D MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OF WET) MAY ADVERSELY AFFECT ITS SURVIVAL. E. SOD MUST BE HARVESTED, DELIVERED. AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED

WITHIN THIS PERIOD MUST BE APPROVED BY AN ACRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION. 2. SOD INSTALLATION A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE 500. B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TICHTLY

WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS. . WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.

501L SURFACE BELOW THE 50D ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING, AND irricating for any piece of 500 within eight hours. 3. 50D MAINTENANCE A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS 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

B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1). 8.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

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

To provide a designated location for the temporary storage of soil that controls the potential for erosion.

sedimentation, and changes to drainage patterns. Conditions Where Practice Applies 5tockpile areas are utilized when it is necessary to salvage and store soil for later use.

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

2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading. 3. Runoff from the stockpile area must drain to a suitable sediment control practice. 4. Access the stockpile area from the upgrade side.

5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner. 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.

7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. 8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING & MULCHING

THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

A. SEEDING 1. SPECIFICATIONS

A. ALL SEED MUST MEET THE REQUIREMENT 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. B. 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 IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED, TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.

D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEEDCONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1,

PERMANENT SEEDING TABLE 8.3, OR SITE-SPECIFIC SEEDING SUMMARIES. II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT. 8. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL

I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING. II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN

HYDROSERDING: APPLY SEED UNIFORMLY WITH HYDROSERDER (SLURRY INCLUDES SEED AND FERTILIZER). 1. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P20 (PHOSPHORUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE.

II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSFFDING), NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSFFDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.

IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)

A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED. DECAYED. OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED

INTO UNIFORM FIBROUS PHYSICAL STATE I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOT TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

II. WCFM. INCLUDING DYF. MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVE 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. IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BY PHYTO-TOXIC. V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 6.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

A. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.

8. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH 50 THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.

C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED TO 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

A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD: L A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE

A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR. II. 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 CELLULOSE FIBER WITH WATER AT A 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, TERRA TACK AR, OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT 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 4-15 FEET WIDE AND 300 TO 3,000 FEET LONG.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages: a. Prior to the start of earth

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or aradina.

c. Prior to the start of another phase of construction or opening of another grading unit, d. Prior to

the removal or modification of sediment control practices. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to

2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. and revisions thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.

4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. 8-4-1) specifications shall be enforced in areas with >15' of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).

5. All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.

6. Site Analysis For Total Site Area:

Offsite waste/borrow area location: __

avoid conflicts with this plan.

6.00+/- Acres Total Area of Site: LOD Total Area Disturbed: 6.00+/- Acres Area to be roofed or paved: 2.26+/- Acres 3.74+/- Acres Area to be vegetatively stabilized: Total Cut: 5,185 Cu.Yds.+/-Total Fill: 5.185 Cu. Yds

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

N/A

8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:

 Inspection date • Inspection type (routine, pre-storm event, during rain event)

 Name and title of inspector · Weather information (current conditions as well as time and amount of last recorded precipitation)

· Brief description of project's status (e.g., percent complete) and/or current activities • Evidence of sediment discharges · Identification of plan deficiencies

· Identification of sediment controls that require maintenance · Identification of missing or improperly installed sediment controls · Compliance status regarding the sequence of construction and stabilization requirements

· Maintenance and/or corrective action performed · Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDE5, MDE).

Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter. 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of

HSCD-approved field changes 11. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the H5CD. Unless otherwise specified and approved by the H5CD, no more than 30 acres cumulatively may be disturbed at a given time.

12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a

13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade. 14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbricated at 25' minimum intervals, with lower ends curled uphill by 2' in elevation

15. Stream channels must not be disturbed during the following restricted time periods

 Use I and IP March 1 - June 15 • Use III and IIIP October 1 - April 30

• Use IV March 1 - May 31

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

TABLE B.1. TEMPORARY SEEDING FOR SITE STABILIZATION

PLANT 5PEC5	SEED	SEEDING RATE 1/ SE		RECOMMENDED	SEEDING DATES BY PLANT HARDINESS ZONE 3/		
	LB./AC.	LB./1000 FT. ²	DEPTH 2/ (INCHES)	5b AND 6a	6b	7a AND 7b	
COOL-SEASON GRASSES							
ANNUAL RYEGRASS (LOLIUM PERËNNE SSP. MUTIFLORUM)	40	1.0	0.5	MAR. 15 TO MAY 31; AUG. 1 TO 5EPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
BARLEY (HORDEUM VULGARE)	96	2.2	1.0	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
OATS (AVENA SATIVA)	72	1.7	1.0	MAR. 15 TO MAY 31; AUG. 1 TO 5EPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
WHEAT (TRITICUM AESTIVUM)	120	2.8	1.0	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
CEREAL RYE (SECALE CEREALE)	112	2.8	1.0	MAR. 15 TO MAY 31; AUG. 31 TO OCT. 31	MAR. 1 TO MAY 15; AUG. 1 TO NOV. 15	FEB. 15 TO APR. 30; AUG. 15 TO DEC. 15	
WARM-SEASON GRASSES		•					
FOXTAIL MILLET (SETARIA ITALICA)	30	0.7	0.5	JUNE 1 TO JULY 31	MAY 16 TO JULY 31	MAY 1 TO AUGUST 14	
PEARL MILLET (PENNISETUM GLAUCUM)	20	0.5	0.5	JUNE 1 TO JULY 31	MAY 16 TO JULY 31	MAY 1 TO AUGUST 14	

1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED.

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

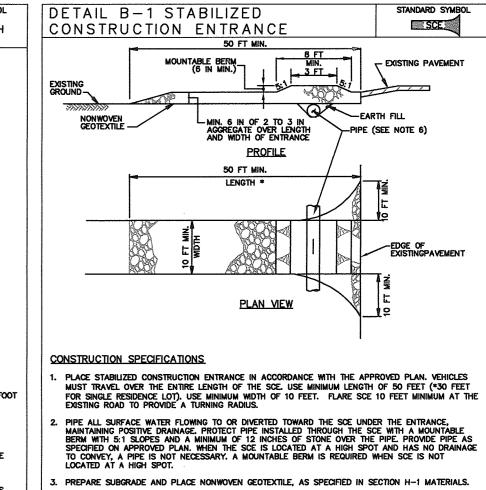
DETAIL E-3 SUPER SILT FENCE GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE **ELEVATION** CHAIN LINK FENCING -WOVEN SLIT FILM GEOTEXTILE-FLOW -CROSS SECTION

CONSTRUCTION SPECIFICATIONS INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

I, FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

SEQUENCE OF CONSTRUCTION

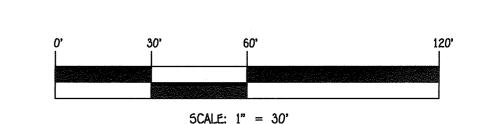
(7 DAY5)

(3 DAYS)

5DP-18-040

1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. 2. NOTIFY "MISS UTILITY" AT LEAST 40 HOURS BEFORE BEGINNING ANY WORK AT 1-000-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION / INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK. 3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AND SUPER-SILT FENCE. 4. ROUGH GRADE AROUND HOUSE SITE AND INSTALL TEMPORARY SEEDING, IF REQUIRED. 5. CONSTRUCT BUILDING. 5. INSTALL DRYWELLS

7. FINE GRADE SITE AND INSTALL PERMANENT SEEDING.
8. ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS.
WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A



FISHER. COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ELLICOTT CITY, MARYLAND 21042



DATE

PROFESSIONAL CERTIFICATE 'I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. SIGNATURE OF LICENSED PROFESSIONAL FRANK JOHN MANALANSAN II

CONSERVATION DISTRICT."

BUILDER/DEVELOPER'S CERTIFICATE I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL

OWNER TIERNEY FARMS-CLARKSVILLE, LP. 24151 VENTURA BOULEVARD CALABASAS, CALIFORNIA 91302 818-385-3697

DEVELOPER BEAZER HOMES, LLC. 8965 GUILFORD ROAD COLUMBIA, MD 21046 ATTN: MR. BRIAN KNAUFF 443-539-9249

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 7-19-18 7.11.18 7-24-18 PROJECT PARCEL NOs. ENCLAVE AT RIVER HILL BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. CENSUS TR. 24650 -605102 18 R-ED 34 24653 PREVIOUS HOWARD COUNTY FILES:

ECP-15-005, PB CASE NO. 409, 5P-15-006, WP-15-069, WP-16-152, F-15-110,

F-17-003, F-18-031, 50P-17-013, 50P-17-014 & 50P-18-032

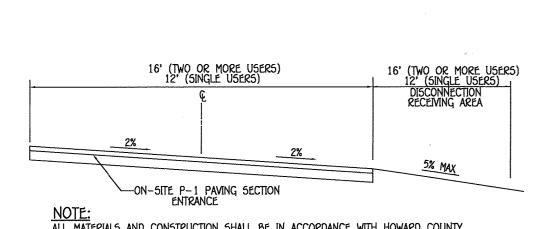
SEDIMENT AND EROSION ECP-15-005, PB CASE NO. 409, 5P-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-18-031, 5DP-17-013, 5DP-17-014 & 5DP-18-032

CONTROL NOTES AND DETAILS SINGLE FAMILY HOUSES ENCLAVE AT RIVER HILL

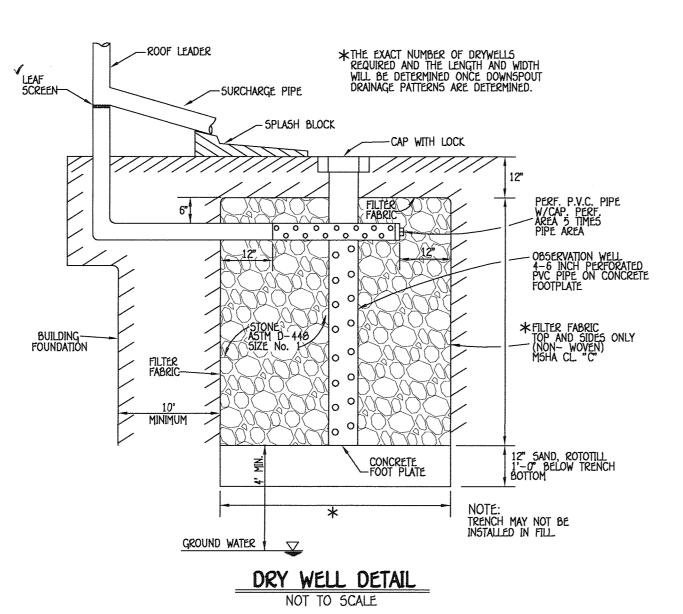
LOTS 130 THRU 159 AND PARTS OF OPEN SPACE LOTS 120 AND 160 PREVIOUS HOWARD COUNTY FILES:

> ZONED: R-ED TAX MAP NO.: 34 PARCEL NO'5.: 88 GRID NO.: 18 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: JUNE, 2018 SHEET 7 OF 8



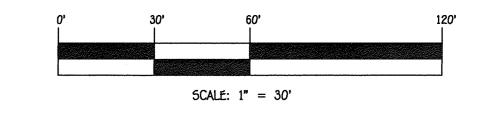
NOTE:
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION. TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION NOT TO SCALE

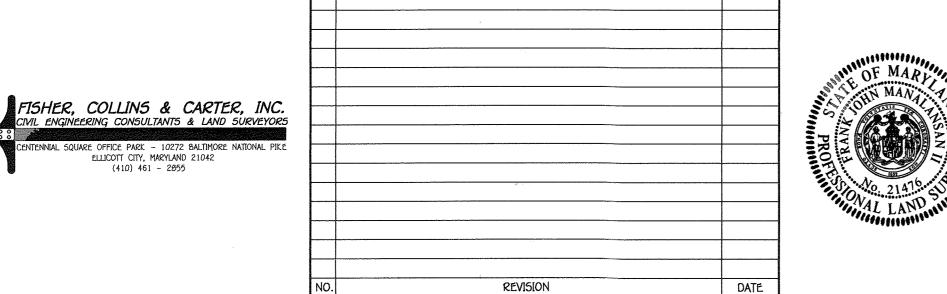


DRY WELL CHART									
LOT NO.	DRYWELL NUMBER	NO. OF DOWNSPOUTS	AREA OF ROOF	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF STORAGE	AREA OF TREATMENT	NO. OF DRYWELLS	DIMENSIONS OF DRYWELLS
130	M-5 (130A)	2	820 SqFt	104 CuFt	106 CuFt	100%	100%	1	9' X 6' X 5'
130	M-5 (130B)	2	879 SqFt	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
130	M-5 (130C)	1	596 SqFt	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
131	M-5 (131A)	2	820 SqFt	104 CuFt	100 Cuff	100%	100%	1	9' X 6' X 5'
131	M-5 (1318)	2	879 5qFt	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
131	M-5 (131C)	1	596 SqFt	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
132	M-5 (132A)	2	820 SqF†	104 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
132	M-5 (132B)	2	879 SqF†	112 CuFf	120 CuFf	100%	100%	1	10' X 6' X 5'
132	M-5 (132C)	1	596 SqFt	76 CuFt	80 Cuft	100%	100%	1	10' X 4' X 5'
133	M-5 (133A)	2	820 SqFt	104 CuFf	108 Cuff	100%	100%	1	9' X 6' X 5'
133	M-5 (1338)	2	879 SqFt	112 CuFf	120 CuFt	100%	100%	1	10' X 6' X 5'
133	M-5 (133C)	1	596 5qFt	76 CuF†	80 CuFt	100%	100%	1	10' X 4' X 5'
134	M-5 (134A)	2	820 SqF†	104 CuFt	108 Cuft	100%	100%	1	9' X 6' X 5'
134	M-5 (134B)	2	079 5qFt	112 CuF†	120 CuFf	100%	100%	1	10' X 6' X 5'
134	M-5 (134C)	1	596 SqFt	76 CuF†	80 CuFt	100%	100%	1	10' X 4' X 5'
135	M-5 (135A)	2	990 SqFt	126 CuF†	132 CuFt	100%	100%	1	11' X 6' X 5'
135	M-5 (1358)	2	991 5qFt	126 CuFf	132 CuFf	100%	100%	1	11' X 6' X 5'
135	M-5 (135C)	1	998 5qFt	127 CuFf	132 CuFf	100%	100%	1	11' X 6' X 5'
136	M-5 (136A)	2	990 5qFt	126 CuF†	132 CuFf	100%	100%	1	11' X 6' X 5'
136	M-5 (136B)	2	991 5qFt	126 CuFf	132 CuFf	100%	100%	1	11' X 6' X 5'
136	M-5 (136C)	1	998 SqF†	127 CuF†	132 CuFf	100%	100%	1	11' X 6' X 5'
137	M-5 (137A)	2	820 SqFt	104 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
137	M-5 (137B)	2	879 SqF†	112 Cuff	120 CuFf	100%	100%	1	10' X 6' X 5'
137	M-5 (137C)	1	596 5qFt	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
138	M-5 (138A)	2	820 5qFf	104 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
138	M-5 (1388)	2	879 54F†	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
136	M-5 (130C)	1	596 5qF†	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
139	M-5 (139A)	2	820 SqFt	104 CuFf	108 CuFt	100%	100%	1	9' X 6' X 5'
139	M-5 (139B)	2	879 5qFt	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
139	M-5 (139C)	1	596 54Ff	76 CuFt	80 Cuft	100%	100%	1	10' X 4' X 5'
140	M-5 (140A)	1	920 SqFt	104 CuF† 112 CuF†	108 CuFt 120 CuFt	100%	100%	1	9' X 6' X 5'
140	M-5 (1408) M-5 (140C)	1	879 54Ft			100%	100%	1	10' X 6' X 5'
140		1	596 5qFt	76 CuFt 104 CuFt	60 CuFt 106 CuFt	100%	100%	1	10' X 4' X 5' 9' X 6' X 5'
	M-5 (141A)		820 5qFt				100%	1	
141	M-5 (1418)		879 5qF†	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
=	M-5 (141C)		596 54Ft	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
	M-5 (142A)		820 54Ft	104 CuFt	100 CuFt	100%	100%	1	9' X 6' X 5'
	M-5 (142B)		879 54Ft	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
	M-5 (142C)		596 54Ft	76 CuFt	80 Cuft	100%	100%	1	10' X 4' X 5'
	M-5 (145A)		990 54Ft	126 CuFt	132 CuF†	100%	100%	1	11' X 6' X 5'
	M-5 (145B)		991 54Ft	126 CuF†	132 CuFt	100%	100%	1	11' X 6' X 5'
149	M-5 (145C)	1	998 54Ft	127 CuFf	132 CuFf	100%	100%	1	11' X 6' X 5'

				DRY WI	ELL CHA	RT			
LOT NO.	DRYWELL NUMBER	NO. OF DOWNSPOUTS	AREA OF ROOF	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF STORAGE	AREA OF TREATMENT	NO. OF DRYWELLS	DIMENSIONS OF DRYWELLS
146	M-5 (146A)	2	820 54Ft	104 CuFt	108 CuFt	100%	100%	. 1	9' X 6' X 5'
146	M-5 (146B)	2	879 5qFt	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
146	M-5 (146C)	1	596 5qFt	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
147	M-5 (147A)	2	820 SqFt	104 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
147	M-5 (147B)	2	879 SqFt	112 CuFt	120 CuFt	100%	100%	1	10' X 6' X 5'
147	M-5 (147C)	1	596 54Ft	76 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
148	M-5 (148A)	1	800 5qFt	102 CuFt	100 CuFt	100%	100%	1	9' X 6' X 5'
148	M-5 (1488)	1	579 5qFt	74 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
149	M-5 (149A)	1	800 5qFt	102 CuFf	100 Cuff	100%	100%	1	9' X 6' X 5'
149	M-5 (149B)		579 5qFt	74 CuF†	80 CuFt	100%	100%	1	10' X 4' X 5'
150	M-5 (150A)	1	800 SqF†	102 CuFt	108 CuFt	100%	100%	1	9' X 6' X 5'
150	M-5 (150B)	1	579 SqFt	74 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
	M-5 (151A)		834 5qFt	106 CuFf	108 CuFf	100%	100%	1	9' X 6' X 5'
151	M-5 (151B)	1	607 SqFt	77 Cuff	80 CuFt	100%	100%	1	10' X 4' X 5'
152	M-5 (152A)	1	834 SqFt	106 CuFf	108 Cuff	100%	100%	1	9' X 6' X 5'
152	M-5 (152B)	1	607 5qF†	77 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
153	M-5 (153A)	1	834 SqFt	106 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
153	M-5 (153B)		607 5qF†	77 CuFt	80 CuFt	100%	100%	1	10' X 4' X 5'
154	M-5 (154A)		527 SqFt	67 CuFt	72 CuFt	100%	100%	1	9' X 4' X 5'
154	M-5 (1548)		463 SqF†	59 CuFt	64 CuFt	100%	100%	1	8' X 4' X 5'
155	M-5 (155A)		820 SqFt	104 CuFf	108 CuFt	100%	100%	1	9' X 6' X 5'
	M-5 (155B)	2	879 54Ft	112 CuFf	120 CuFf	100%	100%	1	10' X 6' X 5'
	M-5 (155C)	1	596 5qF†	76 CuF†	80 CuFt	100%	100%	1	10' X 4' X 5'
	M-5 (156A)		990 5qFt	126 CuF†	132 CuF†	100%	100%	1	11' X 6' X 5'
	M-5 (156B)	2	991 5qFt	126 CuF†	132 CuF†	100%	100%	1	11' X 6' X 5'
	M-5 (156C)	1	998 5qFt	127 CuF†	132 CuF†	100%	100%	1	11' X 6' X 5'
	M-5 (157A)		820 SqFt	104 CuFf	100 CuFt	100%	100%	1	9' X 6' X 5'
157	M-5 (157B)	2	879 SqFt	112 CuFf	120 CuFf	100%	100%	1	10' X 6' X 5'
157	M-5 (157C)	1	596 5qF†	76 CuFt	80 Cuff	100%	100%	1	10' X 4' X 5'
158	M-5 (158A)	2	820 SqFt	104 CuFt	108 CuFf	100%	100%	1	9' X 6' X 5'
158	M-5 (1588)	2	879 SqFt	112 CuFt	120 CuF†	100%	100%	1	10' X 6' X 5'
158	M-5 (158C)	1	596 5qF†	76 CuFt	80 CuF†	100%	100%	1	10' X 4' X 5'
	M-5 (159A)	2	990 5qFt	126 CuF†	132 CuF ₁	100%	100%	1	11' X 6' X 5'
159	M-5 (159B)	2	991 5qF†	126 CuF†	132 CuF†	100%	100%	1	11' X 6' X 5'
159	M-5 (159C)	1.	998 5qFt	127 CuFf	132 CuFf	100%	100%	1	11' X 6' X 5'

	STORMWATER MANAGEMENT PRACTICES								
LOT NO.	DRY WELLS M-5 (Y/N)	STREET ADDRESS	MICRO BIO-RETENTION M-6 (Y/N)	BIO-RETENTION F-6 (Y/N)					
130	Y(3)	6122 LILY GARDEN		Y (PROVIDED BY F-17-003)					
131	Y(3)	6126 LILY GARDEN		Y (PROVIDED BY F-17-003)					
132	Y(3)	6130 LILY GARDEN		Y (PROVIDED BY F-17-003)					
133	Y(3)	6131 LILY GARDEN		Y (PROVIDED BY F-17-003)					
134	Y(3)	6127 LILY GARDEN		Y (PROVIDED BY F-17-003)					
135	Y(3)	6123 LILY GARDEN		Y (PROVIDED BY F-17-003)					
136	Y(3)	6119 LILY GARDEN		Y (PROVIDED BY F-17-003)					
137	Y(3)	6115 LILY GARDEN		Y (PROVIDED BY F-17-003)					
138	Y(3)	6111 LILY GARDEN		Y (PROVIDED BY F-17-003)					
139	Y(3)	6107 LILY GARDEN		Y (PROVIDED BY F-17-003)					
140	Y(3)	6103 LILY GARDEN							
141	Y(3)	12638 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
142	Y(3)	12642 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
143	N	12646 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
144	N	12650 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
145	Y(3)	12654 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
146	Y(3)	12658 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
147	Y(3)	12662 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
148	Y(2)	12666 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
149	Y(2)	12670 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
150	Y(2)	12674 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
151	Y(2)	12673 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
152	Y(2)	12669 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
153	Y(2)	12665 VINCENTS WAY		Y (PROVIDED BY F-17-003)					
154	Y(2)	12661 VINCENTS WAY	V /000 5040 0V 5 45 555						
155	Y(3)	12651 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
156	Y(3)	12647 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
157	Y(3)	12643 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
158	Y(3)	12639 VINCENTS WAY	Y (PROVIDED BY F-17-003)						
159	Y(3)	12635 VINCENTS WAY	Y (PROVIDED BY F-17-003)						





PROFESSIONAL CERTIFICATION

"PROFESSIONAL CERTII DOCUMENTS WERE PRE A DULY LICENSED PRO STATE OF MARYLAND,

lad	Ah.	Manley	A	6/14/18
6	N	IAME		DATE

COLUMN C CENTRAL TOTAL T	
TIFICATION. I HEREBY CERTIFY THAT THESE	
REPARED OR APPROVED BY ME, AND THAT I AM	
ROFESSIONAL SURVEYOR UNDER THE LAWS OF THE	
, LICENSE NO. 21476, EXPIRATION DATE, 7/14/19.	

OWNER
TIERNEY FARMS-CLARKSVILLE, LP. 24151 VENTURA BOULEVARD CALABASAS, CALIFORNIA 91302 818-385-3697

DEVELOPER	_
BEAZER HOMES, LLC. 8965 GUILFORD ROAD COLUMBIA, MD 21046 ATTN: MR. BRIAN KNAUFF 443-539-9249	

	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING									
	Chief, Division of Land Development Chief, Development Engineering Division						7			
							Dațe			
	Valling 1-24-18									
	Director - Department of Planning and Zoning							Dațe		
	PROJECT				PHASE		PARCEL NOs.			
	ENCLAVE AT RIVER HILL				3		88		ECP	
	PLAT	BLOCK NO.	ZONE	TAX	(/ZONE	ELEC. DI	5T.	CENSUS TR.		
	24650 - 24653	18	R-ED		34	5		605102		
PREVIOUS HOWARD COUNTY FILES:										

ECP-15-005, PB CASE NO. 409, 5P-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-18-031, 5DP-17-013, 5DP-17-014 & 5DP-18-032

SINGLE FAMILY HOUSES ENCLAVE AT RIVER HILL
OTS 130 THRU 159 AND PARTS OF OPEN SPACE LOTS 128 AND 160 PHASE 3

PREVIOUS HOWARD COUNTY FILES:

ECP-15-005, PB CASE NO. 409, SP-15-006, WP-15-069, WP-16-152, F-15-110, F-17-003, F-18-031, SDP-17-013, SDP-17-014 & SDP-18-032

ZONED: R-ED TAX MAP NO.: 34 PARCEL NO'5.: 88 GRID NO.: 18

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JUNE, 2018 SHEET 8 OF 8 5DP-18-040