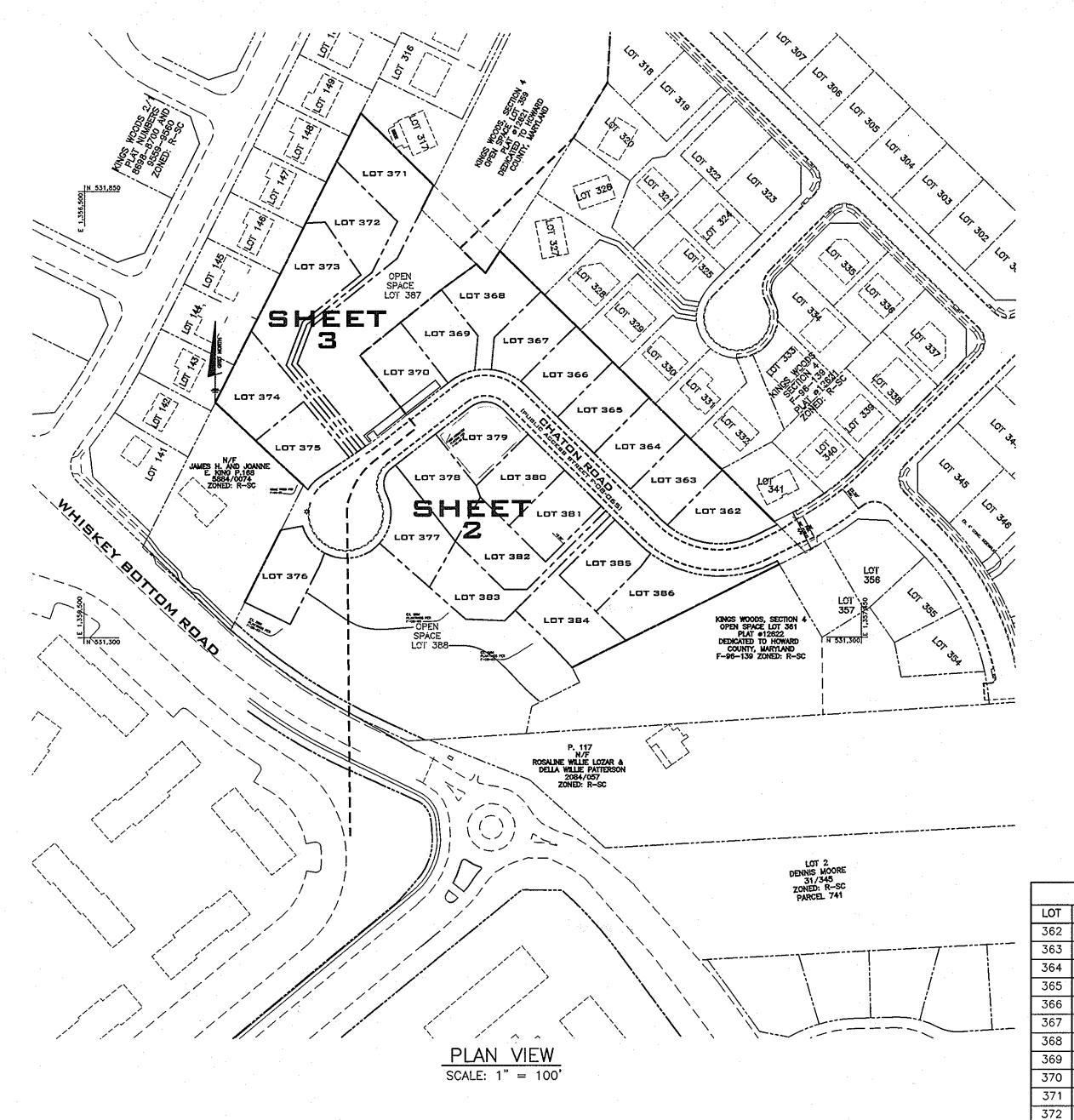
# SITE DEVELOPMENT PLAN KINGS WOODS

SECTION 5 LOTS 362-386



# GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED R-SC PER THE 2-02-04 COMPREHENSIVE ZONING PLAN
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIMISION A (410)313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.

HAMMONDS

PROMISE

216 CANTERBURY

RIDING

KINGS

HO.CO.STA.

.00.517.. 50B5

HO.CO.STA.

ADC MAP 19 GRID K9 VICINITY MAP SCALE: 1" = 2000'

50BA (

- AND FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., DATED FEBRUARY, 2003. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE
- MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 50BA AND 50B5 WERE USED FOR THIS
- EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM CONTRACT DRAWINGS #24-4434-D AND ROAD CONSTRUCTION PLANS F-08-065, APPROVED CONTRACT DRAWINGS AND FIELD LOCATIONS. IF NECESSARY, CONTRACTOR SHALL ADJUST ANY OR ALL STRUCTURE TOP ELEVATIONS TO MATCH SDP GRADES.

4. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM THE GRADING PLAN UNDER F-08-065, CONTOUR INTERVAL IS 2 FEET

- THERE ARE NO WETLANDS, WETLANDS BUFFERS, STREAMS, STREAM BUFFERS OR 100-YEAR FLOODPLAIN LOCATED ON THESE
- 8. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS; BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS; PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- 9. WOB INDICATES WALKOUT BASEMENT.
- 10. PREVIOUS HOWARD COUNTY FILE NUMBERS: S-02-012, P-07-01, F-08-065, CONT. #24-4434-D. 11. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES
- 12. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
- 13. "BRL" INDICATES BUILDING RESTRICTION LINE.

ADDRESS CHART

STREET ADDRESS 9548 CHATON ROAD

9552 CHATON ROAD 9556 CHATON ROAD

9560 CHATON ROAD

9564 CHATON ROAD

9568 CHATON ROAD

9572 CHATON ROAD

9576 CHATON ROAD

9580 CHATON ROAD

9584 CHATON ROAD

9588 CHATON ROAD

9592 CHATON ROAD

9596 CHATON ROAD

9600 CHATON ROAD

9599 CHATON ROAD

9585 CHATON ROAD

9581 CHATON ROAD

9577 CHATON ROAD

9573 CHATON ROAD

9569 CHATON ROAD

9565 CHATON ROAD

9561 CHATON ROAD

9557 CHATON ROAD 9553 CHATON ROAD 9549 CHATON ROAD

6th

7320000

SECTION/AREA:

TAX MAP

47

LOT/PARCEL #

PARCEL: 857

6069.02

374

375

378

384

ZONE

R-SC

KINGS WOODS

PERMIT INFORMATION CHART

**BENCHMARKS** 

HO. CO. #50BA (NAD '83) ELEV.=N/A STANDARD DISC ON CONCRETE MONUMENT

N 527561.6702'

N 524999.3640'

THE CURB OF U.S. ROUTE 1.

BEING 39.7' SOUTHWEST OF THE CORNER OF A STONE PLANTER, 11.8' NORTHWEST OF THE CONC. CURB OF U.S. ROUTE 1 AND 42.9'

NORTH OF THE INTERIOR CORNER OF THE CURB.

HO. CO. #50B5 (NAD '83) ELEV.=178.242' STANDARD DISC ON CONCRETE MONUMENT BEING 73.9' NORTHEAST OF THE FRONT RIGHT CORNER OF #10100 U.S. ROUTE 1, 50.2' SOUTH OF A FIRE HYDRANT AND 2.9' WEST OF

E 1359772.5936

E 1357925.6751'

- 14. FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.03 & R-6.05.
- 15. HOUSES/GARAGES WILL BE SITED ON LOTS SO THAT A SECOND CAR, IF PARKED IN THE DRIVEWAY, WILL NOT OVERHANG INTO THE SHARED DRIVEWAY (18' MINIMUM CLEARANCE).
- 16. DRIVEWAY SLOPES SHOWN ARE AVERAGE. THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR STEEPER DEPENDING ON
- 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:
- 1. WIDTH 12' (16' SERVING MORE THAN ONE RESIDENCE); 2. SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.):
- 3. <u>Geometry</u> Max. 15% grade, Max. 10% grade Change and Min. 45' turning radius. 4. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING);
- 5. <u>DRAINAGE ELEMENTS</u> CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
- 6. MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE. 18. THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN FIVE YEARS OF SIGNATURE APPROVAL OF THIS PLAN.
- 19. STREET TREES SHALL BE PROVIDED IN ACCORDANCE WITH THE APPROVED ROAD CONSTRUCTION DRAWINGS (F-08-065). SURETY HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT.
- 20. PERIMETER AND STORM WATER MANAGEMENT LANDSCAPING, IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL, WAS PROVIDED AS SHOWN ON THE LANDSCAPE PLAN SHEETS OF THE ROAD
- CONSTRUCTION DRAWINGS (F-08-065) FOR THIS PROJECT.
- 21. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT-OF-WAY LINE
- AND NOT ONTO THE FLAG OR PIPE STEM LOTS DRIVEWAY.
- 22. THE STORMWATER MANAGEMENT IS BEING PROVIDED AS PER F-08-065, THIS PLAN IS EXEMPT FROM PROVIDING CPV, WQV AND REV MANAGEMENT.
- 23. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL WAS PROVIDED BY THE PLACEMENT OF .27 ACRES OF ON-SITE REFORESTATION INTO AN EASEMENT AREA (F08-65.KINGS WOODS) AND THE ACQUISITION OF 2.44 ACRES OF FORESTATION INTO AN EASEMENT AREA (F08-65.KINGS WOODS) AND THE ACQUISITION OF 2.44 ACRES OF OFF-SITE REFORESTATION FROM A FOREST MITIGATION BANK IDENTIFIED AS NON-BUILDABLE PRESERVATION PARCEL C OF EDGEWOOD FARM, TAX MAP 21, GRID 22, PARCEL 90 (F-06-108) WHICH IS SUFFICIENT TO MEET THE TOTAL REFORESTATION OBLIGATION OF 2.71 ACRES. SURETY FOR 0.27 ACRES OF REFORESTATION IN THE AMOUNT OF \$8,820.75 (11,761 SQ. FT. X \$0.75) SHALL BE POSTED WITH THE DEVELOPERS AGREEMENT FOR THIS FINAL PLAN, F-08-65. NO SURETY IS REQUIRED FOR THE OFF-SITE REFORESTATION SINCE IT IS LOCATED IN A FOREST MITIGATION BANK.

1 9-9-09 REVISE ADDRESS FOR LOT 370 IN ADDRESS CHART NO. DATE REVISION

**BENCHMARK** 

# ENGINEERING, INC.

ENGINEERS & LAND SURVEYORS A PLANNERS

8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 phone: 410-465-6105 ▲ fax: 410-465-6644

Check: DAM

Draft: WEO

email: bei@bei—civilengineering.c	were prepared or approved by the, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. 28559 Expiration Date: 7-22-2009.			
6085 MARSHALEE DRIVE SUITE 140 ELKRIDGE, MARYLAND 21075	PROJECT: KINGS WOODS SECTION 5 LOTS 362 - 386			
	LOCATION: FILE: S-02-12	TAX MAP No. 47 PARCEL 6th ELECTIC HOWARD COUN	No. 857 N DISTRICT	
	P-07-0: TITLE:	· · · · · · · · · · · · · · · · · · ·	SHEET	
410-796-0980 ATTEN: JOHN LEWIS	1 DATE: -	ULY, 2008 FMBFR 2008	PROJECT NO.	2128

SCALE: AS SHOWN

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

SITE ANALYSIS DATA CHART

PERCENTAGE OF GROSS AREA \_\_\_\_\_\_\_\_0%

J.) AREA OF RECREATIONAL OPEN SPACE REQUIRED \_\_\_\_\_ 0 s.f.

AREA OF RECREATIONAL OPEN SPCAE PROVIDED \_\_\_\_\_ 0 s.f.

M.) PROPOSED WATER AND SEWER SYSTEMS: X PUBLIC PRIVATE

PERCENTAGE OF GROSS AREA \_\_\_\_\_\_\_ 0%

L.) APPLICABLE DPZ FILE REFERENCES: \_\_\_\_\_

A.) TOTAL PROJECT AREA \_\_\_\_\_

D.) PRESENT ZONING:

E.) PROPOSED USE OF SITE:

I.) OPEN SPACE ON-SITE \_

F.) FLOOR SPACE PER LOT \_\_\_\_\_

G.) TOTAL NUMBER OF UNITS ALLOWED

K.) BUILDING COVERAGE OF SITE\_\_\_\_

AS SHOWN ON FINAL PLAT(S)\_\_\_\_

H.) TOTAL NUMBER OF UNITS PROPOSED.....

B.) AREA OF THIS PLAN SUBMISSION \_\_\_\_\_

C.) APPROXIMATE: LIMIT OF DISTURBANCE \_\_\_\_\_

12/8/08

RESIDENTIAL

\_\_\_ S-02-012, P-07-01

CONTRACT # 24-4434-D

SINGLE FAMILY DETACHED UNITS

GROSS AREA PIPESTEM AREA MIN. LOT SIZE LOT NO. 813 S.F. 6.914 S.F SHEET INDEX 371 10,726 S.F. 2,918 S.F. 7,808 S.F. 1.694 S.F. 9,141 S.F. 7,447 S.F. DESCRIPTION 10,545 S.F. 11,370 S.F. 825 S.F. 373 TITLE SHEET 8,112 S.F. 533 S.F. 7,579 S.F. 374 2 & 3 SITE DEVELOPMENT AND GRADING PLAN 7,304 S.F. 770 S.F. 6,534 S.F. 382 SEDIMENT & EROSION CONTROL PLAN 7,102 S.F. 1,092 S.F. 383 6,010 S.F. SEDIMENT & EROSION CONTROL NOTES AND DETAILS 6,129 S.F. 6,899 S.F. 770 S.F.

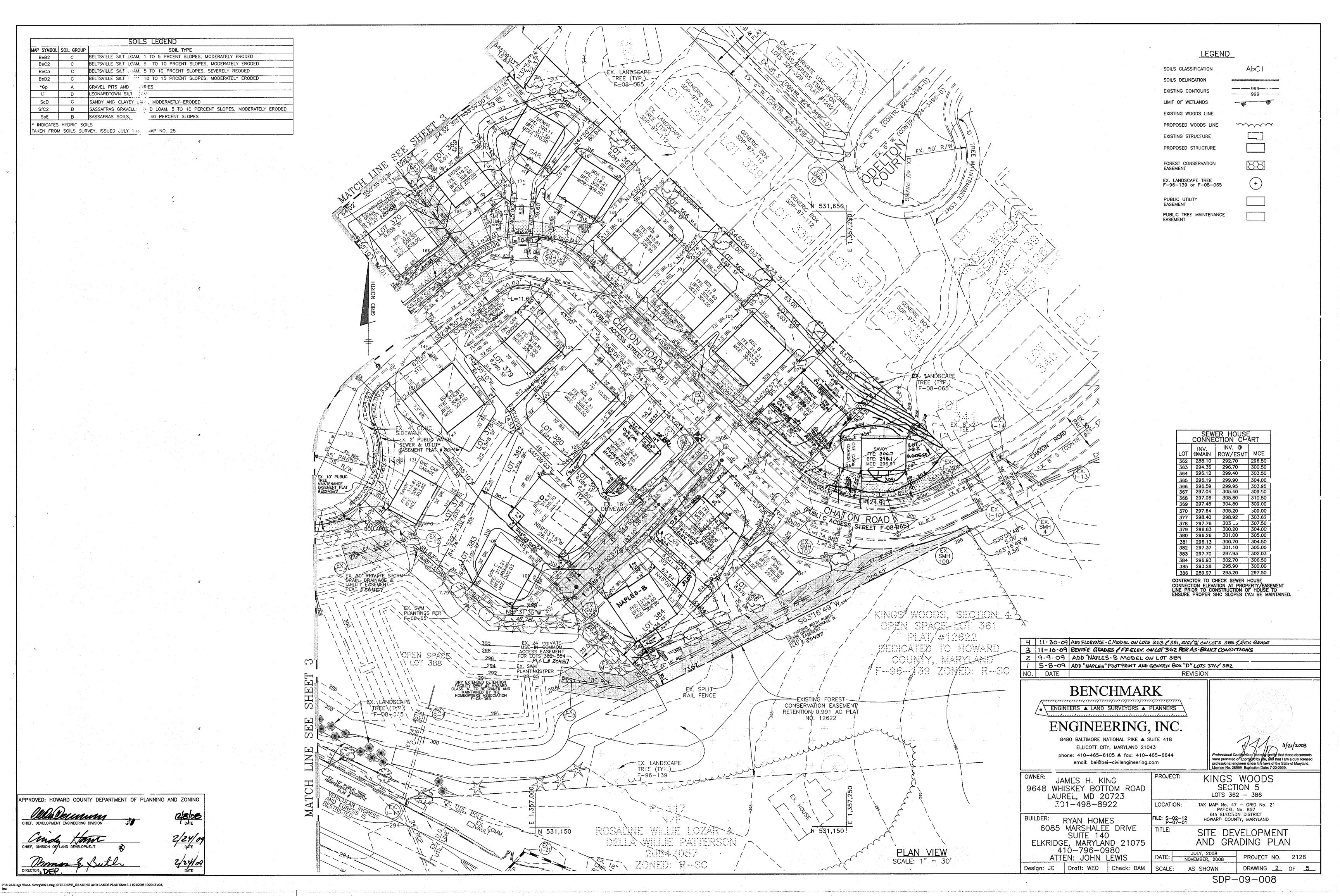
MINIMUM LOT SIZE CHART

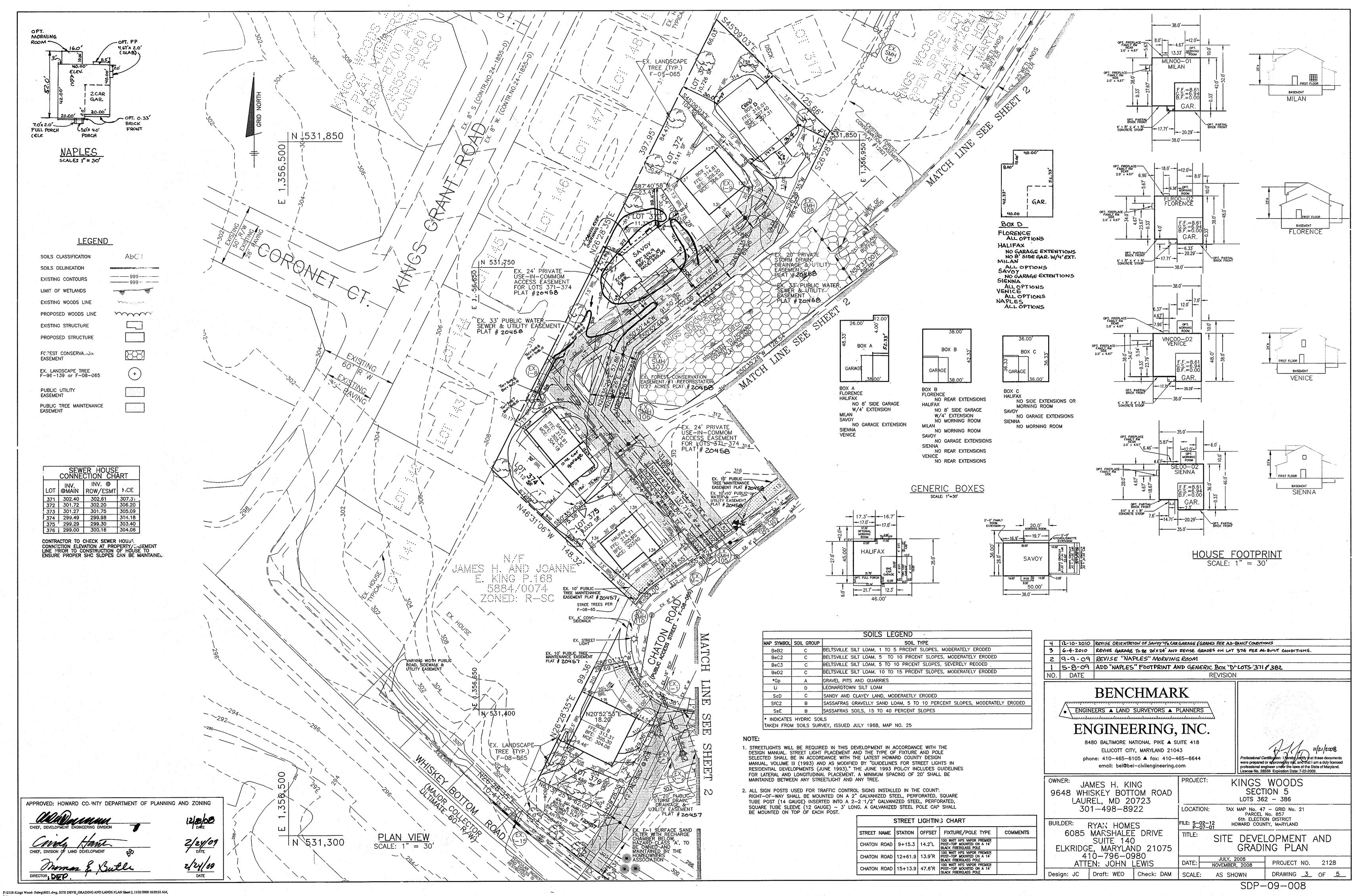
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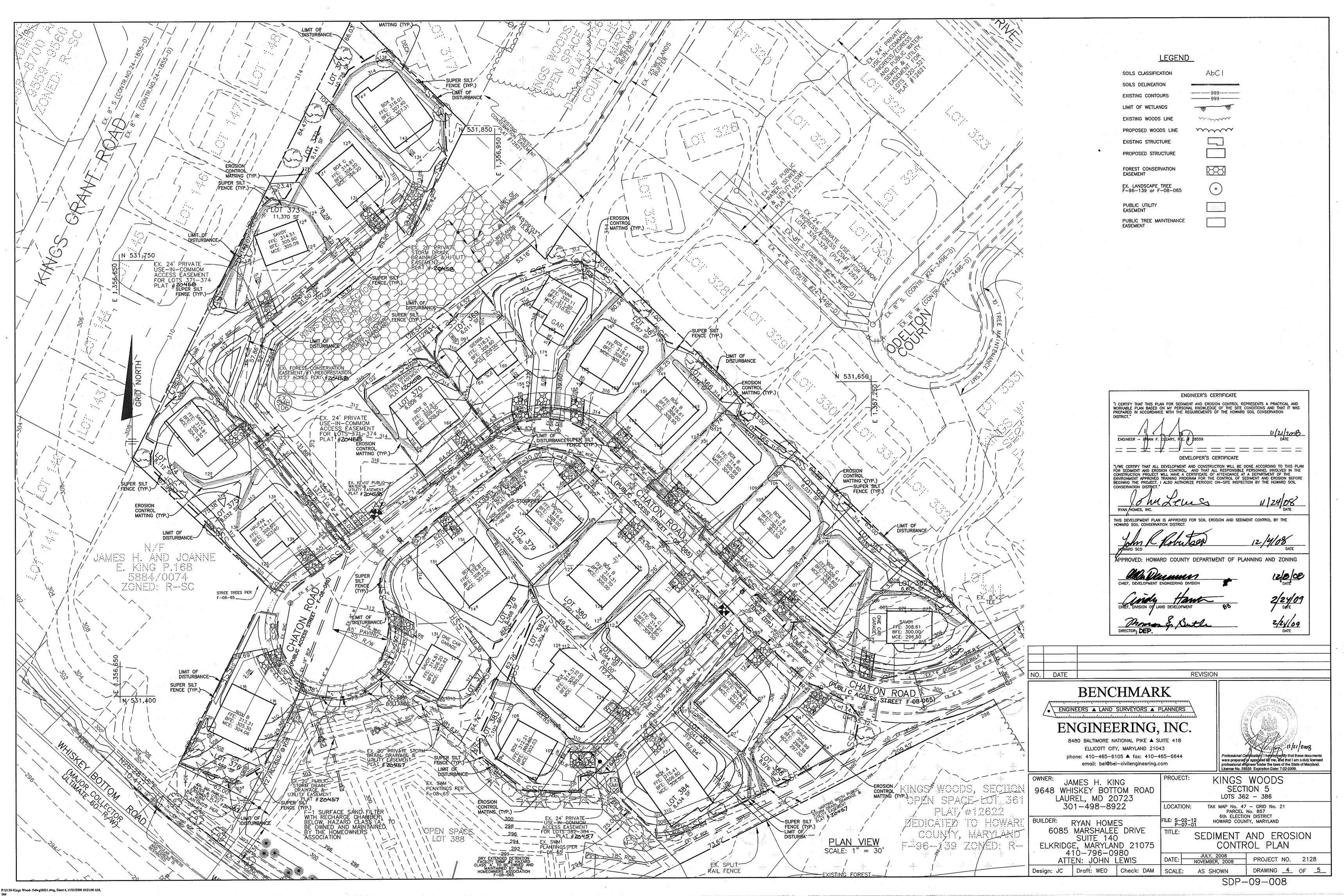
DRAWING 1 OF 5

P:\2128-Kings Wood-5\dwg\8009.dwg, Cover 01, 11/21/2008 10:17:40 AM,

?04*56-2045*8| WATER CODE C-03 SEWER CODE







#### SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).
- 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 MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL". REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZÁTION WITH MULCH ALONE CAN ONLY BE DONE WHÊN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. 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 HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

#### 7. SITE ANALYSIS:

TOTAL AREA OF SITE (THIS SUBMISSION)	4.1 ACRES
AREA DISTURBED	3.7 ACRES
AREA TO BE ROOFED OR PAVED	2.7 ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.0
TOTAL CUT	7900 cy
TOTAL FILL	0 <sub>CY</sub>
OFFSITE WASTE/BORROW AREA LOCATION	*

- \*IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OD CONSTRUCTION. ANY SEDIMENT CONTROL PRACTICE WHICH IS CISTURBED BY GRADING ACTIVITY FOR
- PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

#### PERMANENT SEEDBED PREPARATIONS

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING

- PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER
- ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 50 FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHOPED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED

SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF ENULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL /1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND

### TEMPORARY SEEDBED PREPARATIONS

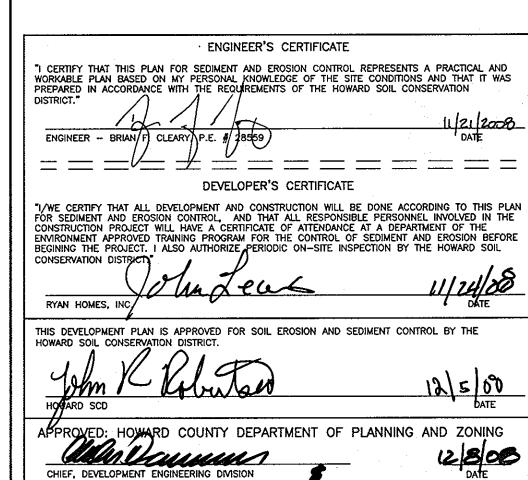
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPT, BLE MEANS BEFORE SEEDING, IF NOT PREMOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT). SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS .07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SELDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



2/24/09

#### TOPSOIL SPECIFICATIONS

1. Topsoil salvaged from the existing site may be used provided that it meets that standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

II. Topsoil Specifications — Soil to be used as topsoil must meet the following: Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.

Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, around limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

III. For sites having disturbed areas under 5 acres:

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and

IV. For sites having disturbed areas over 5 acres:

On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

- pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- Organic content or topsoil shall be not less than 1.5 percent by weight.
- Topsoil having soluble salt content greater than 500 parts per million shall
- d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: foosoil 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

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and

Materials.

When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment

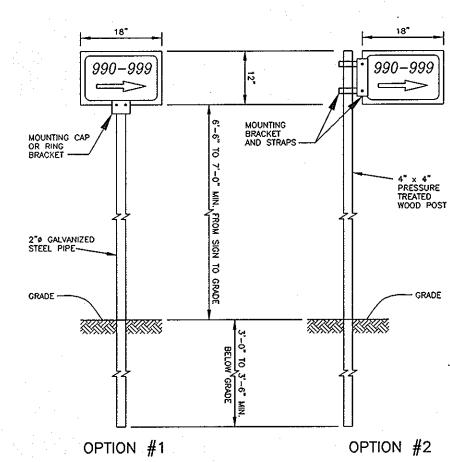
ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" — 8" higher in elevation.

iii. Topsoil shall be uniformly distributed in a 4" — 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall 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 shall be corrected in order to prevent the formation of depressions or

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified
  - 1. Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to prescribe amendments and for sites having DAY 1 disturbed areas under 5 acres shall conform to the following requirements:
  - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent
  - phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- iv. Composted studge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guidelines Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes,



THE FOLLOWING STANDARD SIGN DESIGN SPECIFICATIONS SHALL APPLY:

- 1. THE SIGN SIZE SHALL BE 12" x 18".
- 2. THE SIGN MATERIAL SHALL BE 0.080 GAUGE THICKNESS ANODIZED ALUMINUM. 3. THE SIGN SHALL HAVE A GREEN BACKGROUND WITH 3" HIGH WHITE REFLECTIVE
- NUMBERS AND ARROW WITH A WHITE REFLECTIVE BORDER. WHERE A PRIVATE ROAD NAME IS IN USE OR PART OF A PRIVATE HOMEOWNER'S ARTICLES OF INCORPORATION AGREEMENT THE SIGN SIZE WILL BE ENLARGED TO ACCOMODATE THE NECESSARY LETTERING BUT REMAIN PROPORTIONAL TO THE
- ABOVE DESIGN LIMITS. 5. THE SIGN WILL BE INSTALLED WITHIN THE COMMON DRIVEWAY EASEMENT AREA AS NOTED ON THE FINAL PLAT.
- 6. ADDRESS NUMBER IDENTIFICATION SIGNS ARE TO BE PROVIDED UNDER THE TENANTS OF THE HOMEOWNER'S ASSOCIATION INCORPORATION OR A PROPERTY MANAGEMENT COMPANY FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH THE DEPARTMENT OF PLANNING AND ZONING ADDRESS NUMBERING SYSTEM AND PER SECTION 3.503(a) OF THE HOWARD COUNTY CODE - PUBLIC SIGNS. MAINTENANCE/REPAIR AND REPLACEMENT OF THE ADDRESS NUMBER DIRECTIONAL SIGNS WILL BE THE RESPONSIBILITY OF THE HOMEOWNER'S ASSOCIATION OR A PROPERTY MANAGEMENT
- 7. COMPLIANCE REGARDING THE INSTALLATION OF THE NEW ADDRESS NUMBER DIRECTIONAL SIGNS WILL BE ENFORCED BY THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF FINAL APPROVAL FOR ISSUANCE OF THE USE AND OCCUPANCY PERMITS.

HO. CO. APPROVED SIGN DESIGN AND INSTALLATION DETAIL

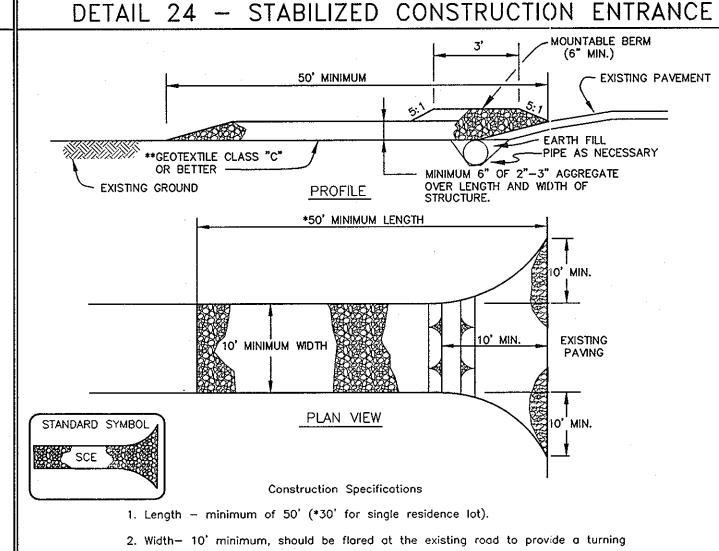
NOT TO SCALE

# DETAIL 30 - EROSION CONTROL MATTING -4" OVERLAP OF MATTING STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. ATTACH STAPLES ON 18 INCH **CENTERS** STAPLE OUTSIDE EDGE OF MATTING ON 2" CENTERS -STAPLE OUTSIDE EDGE OF MATTING ON 2" CENTERS TYP. STAPLES NO.11 CONSTRUCTION SPECIFICATIONS TRENCH, 6" IN DEPTH, BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM DOWN SLOPE FROM THE TRENCH, SPACING BETWEEN STAPLES IS 6". 2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES. 3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.

- 1. KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4"

- 4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS. AND 2 ALTERNATING ROWS DOWN THE CENTER.
- 5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
- 6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.

NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.



3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residence to use geotextile.

4. Stone — crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mounted berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized

according to the amount of runoff to be conveyed. A 6" minimum will be required.

- 17 - 3

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

MARYLAND DE ARTMENT OF ENVIRONMENT | U.S. DEPARTMENT OF AGRICULTURE PAGE U.S. DEPARTMENT OF AGRICULTURE G - 22 - 2SOIL CONSERVATION SERVICE

#### WATER MANAGEMENT ADMINISTRATION DETAIL 33 - SUPER SILT FENCE

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION 1.) OBTAIN GRADING PERMIT.

SEQUENCE OF CONSTRUCTION

DAY 2-5 2.) INSTALL PERIMETER SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SOP.

3.) INSTALL SEDIMENT CONTROLS FOR INDIVIDUAL HOUSE. DAY 7-10\* 4.) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.

DAY 11-80\* 5.) CONSTRUCT HOUSE, BACKFILL AND CONSTRUCT DRIVEWAY DAY 81-85\* 6.) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES

DAY 86-89\* 7.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. REMOVE INDIVIDUAL LOT SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS. DAY 90 8.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR REMOVE THE PERIMETER SEDIMENT CONTROL DEVICES AND STABILIZE ANY

\* - INDICATES SINGLE HOUSE CONSTRUCTION.

REMAINING DISTURBED AREAS.

EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD

ALL SEDIMENT & EROSION CONTROL FEATURES ARE TO BE REPAIRED IMMEDIATELY IF DISRUPTED BY UTILITY INSTALLATION SUPER SILT FENCE IS TO BE INSPECTED FREQUENTLY & CLEANED, REPAIRED AND/OR RE-INSTALLED IMMEDIATELY AS NECESSARY ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

# CHAIN LINK FENCE WITH ONE SHALL NOT EXCEED 10 CENTER TO CENTER LAYER OF FILTER CLOTH OVER 10' MAXIMUM RFACE FLOW STANDARD SYMBOL PERSPECTIVE VIEW \_2~1'/'2~" Dia. GALVANIZED OR \_\_\_\_\_SSF-\_\_\_ ALUMINUM FENCE POST

SOIL CONSERVATION SERVICE

CHAIN LINK FENCE -ALUMINUM FENCE POST 16" MIN. 1st LAYER FILTER CLOTH - UNDISTURBED GROUND FLOW EMBED FILTER CLOTH MIN. 8" INTO GROUND

SECTION

CONSTRUCTION SPECIFICATIONS Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts. 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

SUPER SILT FENCE

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every

4. Filter cloth shall be embedded a minimum of 8" into the ground.

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5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded. 6. Maintenance shall be performed as needed and silt buildups removed when "bulges' develop in the silt fence, or when silt reaches 50% of fence height

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples a

Test: MSMT 509 Test: MSMT 509 Tensile Modulus 0.3 gal/ft /minute (max.) 75% (min.) Test: MSMT 322 Flow Rate Test: MSMT 322

## SUPER SILT FENCE DESIGN CRITERIA

Slope	Slope <u>Steepness</u>	Slope Length (maximum)	Silt Fence Length <u>(maximum</u> )
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

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MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION

> NO. DATE REVISION **BENCHMARK** ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 Professional Certification: It in prefer certify that these documents were prepared or approved by the, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 28559 Expiration Date: 7-22-2009. phone: 410-465-6105 ▲ fax: 410-465-6644 email: bei@bei-civilengineering.com KINGS WOODS SECTION 5 9648 WHISKEY BOTTOM ROAD LOTS 362 - 386 LAUREL. MD 20723 301-498-8922 TAX MAP No. 47 - GRID No. 21

> > SCALE:

BUILDER: RYAN HOMES 6085 MARSHALEE DRIVE SUITE 140 ELKRIDGE, MARYLAND 21075 410-796-0980 ATTEN: JOHN LEWIS

Draft: WEO | Check: DAM

PARCEL No. 857 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

AS SHOWN

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS PROJECT NO. 2128

SDP-09-008

DRAWING <u>5</u> OF <u>5</u>

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