INSP 2	INSP 5			
INSP 3	INSP 6			
ISSUE DATE:	<sup>05/15/2007</sup> P	ERMIT		P 526703
APPROVAL DATE:	ON-SITE SEW, HOWARD COUN	GED INTO PERM TAX ID# 03-34 AGE DISPOSAI TY HEALTH DEI NVIRONMENTAL	L SYSTEM PARTMENT	r A 516525
Craftmark Homes,	Inc	IS PERMITT	ED TO INSTA	LL 🛛 ALTER 🗌
ADDRESS: 6820	Elm St, Ste 102,	22101 Mc Lean, VA PHO	NE NUMBER:	703-748-5877
SUBDIVISION: S	addlebrook Farm	LOT	NUMBER:	3
ADDRESS: <u>1014</u>	Saddlebrook Farm Trai	PROPERTY	OWNER: Shale	hearth LC
SEPTIC TANK CAPA	ACITY (GALLONS):	OUT	LET BAFFLE FIL	TER REQUIRED [
PUMP CHAMBER C	APACITY (GALLONS):	N/A COM	PARTMENTED 1	TANK REQUIRED
NUMBER OF BEDRO	OOMS:	_4		
SQUARE FEET PER	BEDROOM:	-		
LINEAR FEET OF T	RENCH REQUIRED:			
TRENCHES:	Trench to be 3.0 feet w depth 5.0 feet below or grade. 2.0 feet of stone	iginal grade. Effective	e area begins at 4.0	
LOCATION:			1	
NOTES:	Install system pe department. Layo	_		

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

H0-95-0506 63'	• •
NOT TO SCALE	TRENCH/DRAINFIELD DATA* WIDTH INLET BOTTOM 3' 3' 5
2'	NUMBER OF TRENCHES 2  TOTAL LENGTH 138'  ABSORPTION AREA 4/4+Sidem  DISTRIBUTION BOX LEVEL Level e  DISTRIBUTION BOX BAFFLE Yes  DISTRIBUTION BOX PORT Yes
90' Ollis' 23' 69' 5.5'	SEPTIC TANK DATA SEPTIC TANK 1 LEVEL YES  CAPACITY 2000 GAL SEAM LOC TANK LID DEPTH 2-2.5  BAFFLES YES BAFFLE FILTER NONE MANHOLE LOC FONT 6" PORT LOC REAR WATERTIGHT TEST NO SEPTIC TANK 2 LEVEL NA CAPACITY GAL SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANHOLE LOC 6" PORT LOC 6" PORT LOC
PRE-CONSTRUCTION 7/6/07 AM, Set the dist. bo the top right corner easement stake a INSTALLATION trenches on contour, PB 7/ finished. O. K. to boubfill, Kower tr	watertight test ex about 70 from and install 2-69' 6/07 P.M. System ench slightly off
contour (BB)	
FINAL INSPECTOR Baker DATE OF AF	PPROVAL 7/6/07

S

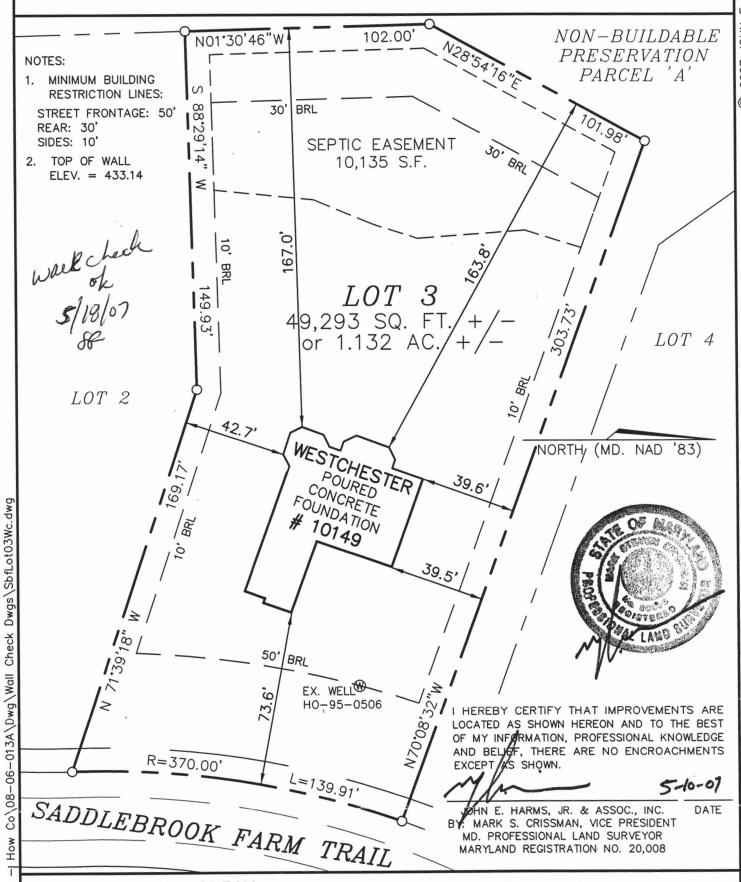
- THIS IMPROVEMENT LOCATION DRAWING:
- A. IS OF BENEFIT TO A CONSUMER ONLY INSOFAR AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING;
- B. IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS; AND

- C. DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.

  THE LEVEL OF ACCURACY AND ACCURACY OF APPARENT SETBACK DISTANCES IS ONE FOOT, MORE OR LESS.

  THIS PLAT WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT.

  RECORD PLAT IS TITLED "SUBDIVISION PLAT OF SADDLEBROOK FARM, LOTS 1-12, NON-BUILDABLE PRESERVATION PARCELS 'A'-'D', NON-BUILDABLE PARCEL 'E', AND BUILDABLE PRESERVATION PARCEL 'F' ", AND RECORDED AS PLAT #'S 18622 THRU 18624 ON 11-03-06 AMONG THE LAND RECORDS OF HOWARD COUNTY, MD.



WALL CHECK LOT 3

SADDLEBROOK FARM

Tax Map 11, Grid 13, Parcels 19 & 32 THIRD ELECTION DISTRICT

HOWARD COUNTY, MD

SCALE: 1"= 40'

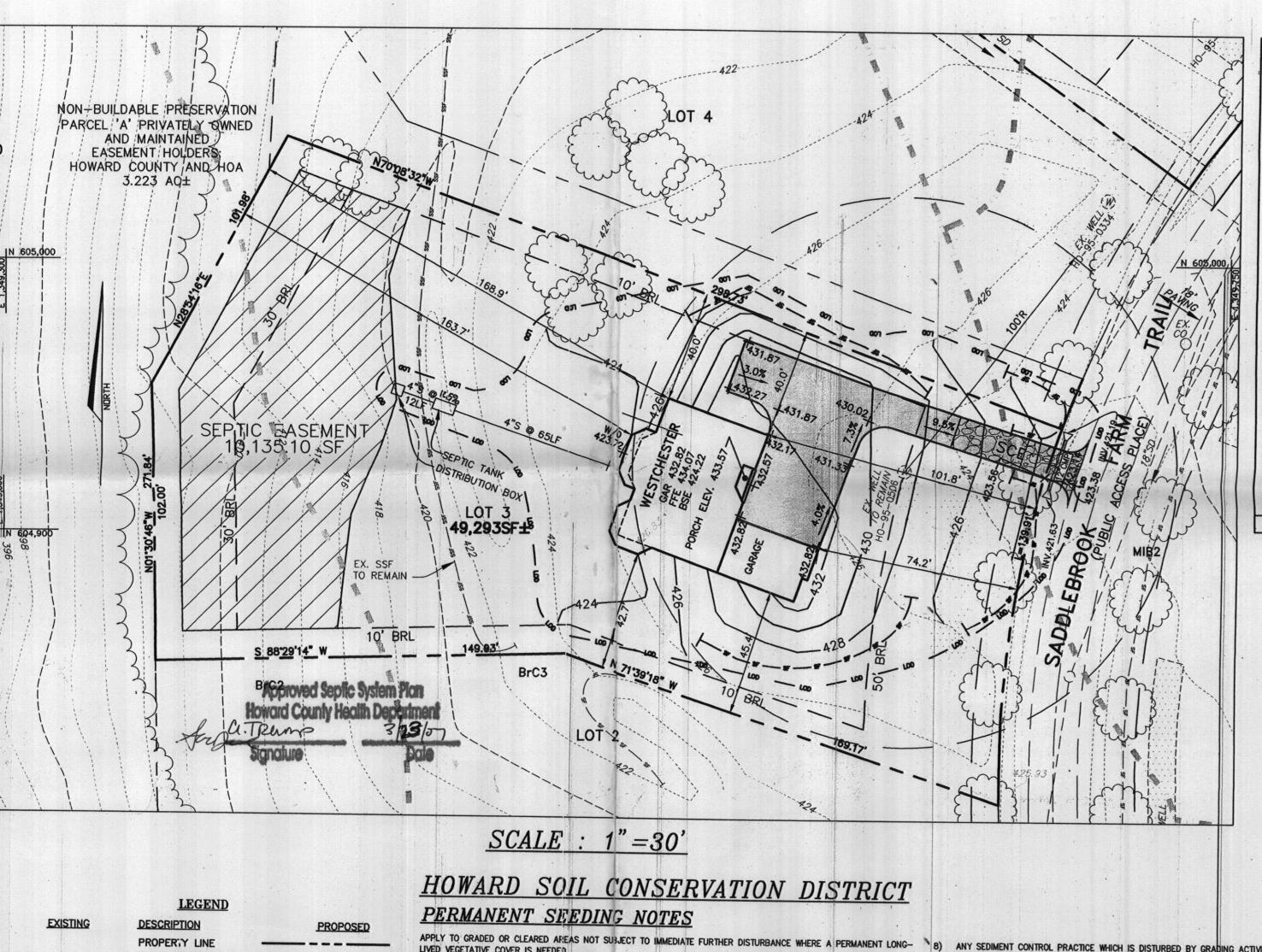
DATE: Apr. 25, 2007

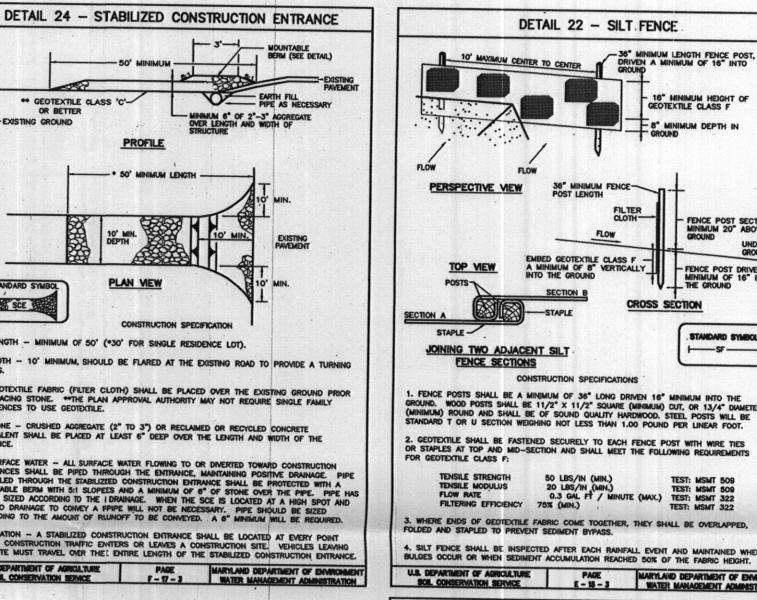
Craftmark Homes Westchester

10149 Saddlebrook Farm Trail



**ENGINEERS • PLANNERS • SURVEYORS** 41 E. All Saints St., Suite 210, Frederick, MD 217 Office: 301-631-2027 Fax: 301-631-2028





SEPITC SYSTEM DATA

434.07

424.22

418.60

418,35

FIRST FLOOR ELEVATION:

BASEMENT ELEVATION:

INV. OUT OF HOUSE:

INV. IN SEPTIC TANK

EX. ELEVATION AT SPETIC TANK:

PROP. ELEVATION AT SEPTIC TANK:

EX. ELEVATION AT DISTRIBUTION BOX: PROP. INVERT AT DISTRIBUTION BOX:

	SILT FENCE DESIGN C	RITERIA
SLOPE STEEPHESS	(MAXIMUM) SLOPE LENGTH	(MAXIMUM) SILT FENCE LENGTH
FLATTER THAN 50:1	UNLIMITED	UNLIMITED
50:1 TO 10:1	125 FEET	1,000 FEET
10:1 TO 5:1	100 FEET	750 FEET
5:1 TO 3:1	60 FEET	500 FEET
3:1 TO 2:1	40 FEET	250 FEET
2:1 AND STEEPER	20 FEET	125 FEET
STSTEM, SUIL CLASS A	MAXIMUM SLOPE LENGTH	COLS (USDA GENERAL CLASSIFICATIO AND SILT FENCE LENGTH WILL BE E THE ONLY PERIMETER CONTROL

WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS,

III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM

THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN

SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE

PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE

iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN

I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER

a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE

THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

IV. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILLIZER APPLIED AT THE RATE OF 4 LB/1,000

5. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALT OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE.

6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN AND CONSTRUCT SILT

6. UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR,

REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS. (7 DAYS)

PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE

b. COMPOSTED SLUDGE SHALL CONTAIN AT LEASE 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOURUS, AND 0.2

PERCENT POTASSIUM AND HAVE A Ph OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS,

5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5

THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER

II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL

c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE

EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

TEMPORARY DUST CONTROL MEASURES

2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.

FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.

FORMATION OF DEPRESSIONS OR WATER POCKETS.

ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

ENVIRONMENT UNDER COMAR 26.04.06.

TO THE POINT THAT RUNOFF BEGINS TO FLOW.

SEQUENCE OF CONSTRUCTION

4. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED. (1 DAY)

5. SEED AND MULCH ALL REMAINING DISTURBED AREAS. (1 DAY)

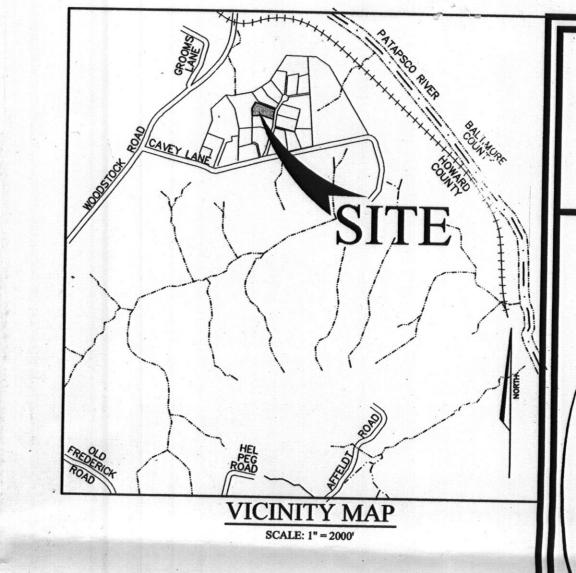
3. COMPLETE CONSTRUCTION AS SHOWN. (160 DAYS)

IN CONTROLLING SOIL BLOWING.

1. OBTAIN GRADING PERMIT

GRADING AND SEEDBED PREPARATION.

GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASING



## GENERAL NOTES

- TAX MAP: 11, PARCEL: 19, BLOCK: 13, LOT 3 ELECTION DISTRICT: THIRD. ZONING: RC-DEO. DEED REFRENCE: 8920/421.
  DPZ FILES: F-06-042, SP-03-10, WP-03-148.
  LOT AREA: 49,293 SQ.FT. OR 1.13 ACRES±
- 2. SUBJECT PROPERTY ZONED RC-DEO PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN.
- COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 101A & 17AB. STA NO. 101A= N 600,995.112, E 1,345,340.402 ELEV=442.707
- STA NO. 46EB= N 598,435.251, E 1,348,615.251 ELEV=509.178
- TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON ROAD PLANS FILED UNDER F-06-042 AND A FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED IN FEBRUARY 2002 BY FSH ASSOCIATES. BOUNDARY SHOWN HEREON IS ASSOCIATES. 5. ALL AREAS ARE MORE OR LESS.
- GROUNDWATER APPROPRIATION PERMIT NUMBER: H02005G009(01). SOME OF THE WELLS ARE KNOWN TO HAVE LEVELS OF GROSS ALPHA AND/OR GROSS BETA ABOVE CURRENT EPA STANDARDS AND WILL REQUIRE APPROPRIATE
- NO GRAVES, CEMETERIED, OR HISTORIC STRUCTURES EXIST ON-SITE. SITE IS NOT ADJACENT TO A DESIGNATED
- 8. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING (81 SHADE TREES, 36 EVERGREENS) HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF
- WETLAND AND FOREST STAND DELINEATIONS PREPARED BY EXPLORATION RESEARCH, INC. AND APPROVED UNDER SP-03-10 NO WETLANDS, STREAMS, THEIR BUFFERS, FLOODPLAIN, SLOPES 15% OR GREATER, OR 65dBA NOISE LINE
- SQ.FT.) IN THE AMOUNT OF \$41,033.52 AND REFORESTATION OF 1.17 ACRES (50,965.2 SQ.FT.) IN THE AMOUNT OF \$25,482.60 HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$66,516.12.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH=12 FEET (14 FEET SERVING MORE THAN ONE RESIDENT)
- STRUCTURES (CULVERT/BRIDGES)- CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING) DRAINAGE EASEMENTS- CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1-FOOT DEPTH OVER DRIVEWAY SURFACE . F) STRUCTURE CLEARANCES -MINIMUM 12 FEET
- AMENDED UNDER COUNCIL BILL NO. 75-2003. DEVELOPMENT OR CONSTRUCTION ON THIS LOT MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE BUILDING AND GRADING
- THIS LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 15. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE.
- 16. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS.

C&P TELEPHONE COMPANY: HO. CO. BUREAU OF UTILITIES AT&T CABLE LOCATION DIVISION: BALTIMORE GAS & ELECTRIC STATE HIGHWAY ADMINISTRATION HO. CO. DEPT OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION:

- 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

- 23. THE EXISTING WELL (TAG# HO-95-0506) HAS BEEN FIELD LOCATED BY

## THIS SUBDIVISION IS NOT IN THE METROPOLITAN DISTRICT. PRIVATE WELL AND SEPTIC SYSTEMS WILL BE UTILIZED.

FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16,1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FULFILLED BY RETENTION OF 4.71 ACRES AND REFORESTATION OF 1.17 ACRES. FINANCIAL SURETY FOR THE ON-SITE RETENTION OF 4.71 ACRES (205,167.6)

B) SURFACE= 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. C) GEOMETRY= MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.

G) MAINTENANCE- SUFFICIENT TO ENSURE ALL WEATHER USE.

12. STORMWATER MANAGEMENT REQUIREMENTS FOR CPV HAVE BEEN PROVIDED IN A SURFACE SAND FILTER FACILITY AND Rev has been provided for in grass swales. The surface sand filter facility is privately owned and maintained by the homeowners association. Wav for lot 1 has been provided for by a dry swale. Wav for lots 6-9 & 11 has been provided for by sheet flow to buffer, rooftop disconnects and non-rooftop disconnects, all to be privately owned and maintained. Wav for lots 2-5, 10 & 12 have been provided for in a surface sand filter facility.

THIS PLAN IS SUBJECT TO THE FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AS

THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF THE MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE

17. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY AGENCIES AT LEAST FIVE(5) DAYS PRIOR TO ANY

EXCAVATION WORK.

1-800-257-7777 3. TILLAGE - TO ROUGHTN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF 410-725-9976 410-313-4900 SITE. CHISEL-TYPE PLOWS APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT. 410-393-3533 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 410-313-1880

18. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGUALTIONS, BAY WINDOWS, CHIMNEYS OR

19. DRIVEWAY ENTRANCE SHALL BE CONSTRUCTED IN ACCRODANCE WITH HOWARD COUNTY STANDARD R-6.06. 20. ARTICLES OF INCORPORATION FOR THE HOMEOWNERS ASSOCIATION WERE ACCEPTED BY THE STATE DEPARTMENT OF ASSESSMENT AND TAXATION ON APRIL 5, 2006, INCORPORATION NUMBER D11219797.

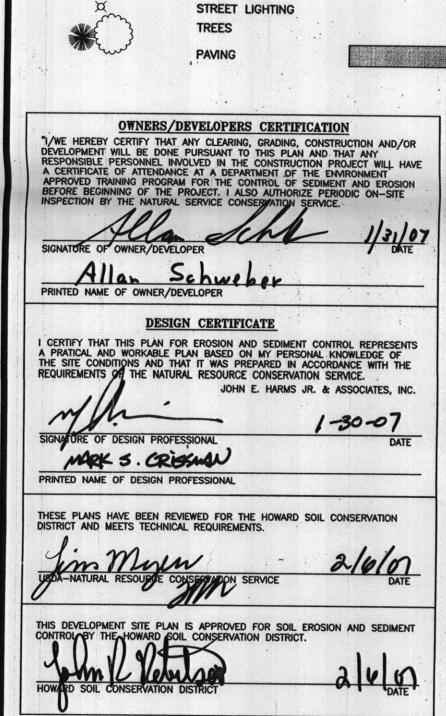
21. THIS PROJECT IS SUBJECT TO WAIVER PETITION WP-03-148 IN WHICH ON JULY 11, 2003 THE PLANNING DIRECTOR APPROVED A WAIVER FROM SECTION 16.119(e)(5) TO ALLOW THE PROPOSED RIGHT OF WAY OF CAVEY LANE TO TIE INTO EXISTING CAVEY LANE WITHOUT THE REQUIRED 25 FEET TRUNCATIONS ON EITHER SIDE OF THE RIGHT OF WAY.

22. PER LETTERS FROM SHALEHEARTH, L.C. (ELM STREET DEVELOPMENT) DATED JANUARY 3, 2007, CRAFTMARK HOMES HAS PERMISSION TO USE SEDIMENT CONTROLS INSTALLED UNDER F-06-042 AND PERMISSION TO GRADE ON ALL LOTS INCLUDING THE OPEN SPACE / NON-BUILDABLE LOTS / PARCEL.

HARMS PROFESSIONAL LAND SURVEYOR AND IS ACCURATELY SHOWN,

DEVELOPER SHALEHEARTH, L.C. 6820 ELM STREET, SUITE 102 MCLEAN, VIRGINIA 22101 (703)-734-9730 BUILDER CRAFTMARK HOMES 6820 ELM STREET, SUITE 102

MCLEAN, VIRGINIA 22101 (703)-287-0582



- - EASEMENT LINE

WATER VALVE

FIRE HYDRANT

UTILITY POLE

SILT FENCE

LIMIT OF DISTURBANCE

SOILS CLASSIFICATION/BOUNDARY

STABILIZED CONSTRUCTION ENTRANCE

×15650

SUPER SILT FENCE

CURB & GUTTER

SPOT ELEVATION

CONTOUR LINE

STREET SIGN

PIPE/GUTTER FLOW DIRECTION

EX. 15" SD \_\_\_ · STORM DRAIN & MH

EX. 8" S SEWER LINE & MH

EX. 8" W \_\_\_\_ WATER LINE & MH

20' B.R.L.

# EX. WV

EkB2

------

×156.50

EX. F.H.

G GAS LINE

OHE --- OHE -- OVERHEAD LINE

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES: AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.). 2) 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 DISK INTO UPPER THREE INCHES OF SOIL. SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS, KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) -SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE 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 EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES B FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS. TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AFIEAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

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

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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES ANI METHODS NOT COVERED.

## STANDARD SELIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEGMENT CONTROL DIVISION PRIOR TO THE START OF MAY CONSTRUCTION, (313-1855).
- THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND" STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALINDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL

2) ALL VEGETATIVE AND STRUCTIJRAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF

- STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADEI) AREAS ON THE PROJECT SITE. 4) 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. 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER
- GERMINATION AND ESTABLISHMENT OF GRISSES. 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.		
SITE ANALYSIS:		
TOTAL AREA OF SITE:	1.13	ACRES
AREA DISTURBED:	0.58	ACRES
AREA TO BE ROOFED OR PAVED:	0.15	ACRES
AREA TO BE VEGITATIVELY STABILIZE):	0.43	ACRES
TOTAL CUT:	600	CU. YDS.
TOTAL FILL:	600	CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION:	N/A	_ 00. 100.

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS ..

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED 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 HOWARD COURTY SEDIMENT CONTROL INSPECTOR.
- 0) 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.
- ) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAIN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

## STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

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.

CONDITIONS WHERE PRACTICE APPLIES I. THIS PRACTICE 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

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.

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. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAIN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER

THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS CONSTRUCTION AND MATERIAL SPECIFICATIONS TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET

FORTH IN THESE SPECIFICATION. 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. 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 CON-TRASTING TEXTURED 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

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-

SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND 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

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

i. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT

FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

DISSIPATION OF PHYTO-TOXIC MATERIALS.

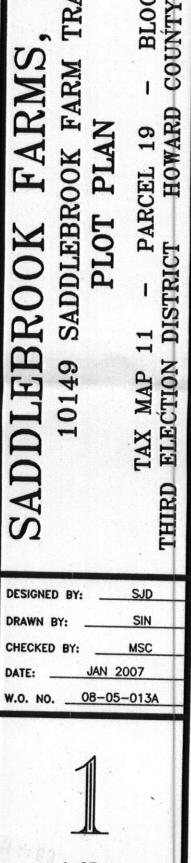
ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

a. PH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES AN PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TO 6.5 OR HIGHIER.

C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILAINTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT

NOTE: 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. II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

SOILS DESCRIPTION SYMBOL DESCRIPTION BrC2 BRANDYWINE LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED BRANDYWINE LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED



1 OF 1

GP - 07 - 48

CHECKED BY: DATE: W.O. NO. <u>08-05-013A</u>