

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE:

9/20/16

ONSITE SEWAGE DISPOSAL SYSTEM

P

559471

APPROVAL DATE:

2/2/17 (SEC)

PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 736 Woodbine Crossing

SUBDIVISION: Woodbine Crossing

LOT: 9

TAX ID: 04-374487

CONTRACTOR: WTC Contractors

EMAIL:

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157

PHONE: 443-458-7024

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:



MDE



MANUFACTURER:

PROPERTY OWNER: LDG INC.

EMAIL:

OWNER ADDRESS: 8601 Georgia Avenue, Silver Spring, MD 20910

PHONE: 301-585-7000

BAT UNIT MODEL: Norweco TNT-500

PUMP SIZE: 3/4

PUMP TANK CAPACITY: 1000

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED:

DATE RECORDED:

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE:

TRENCHES:

LINEAR FEET REQUIRED: 236

INLET DEPTH: 4

TRENCH WIDTH: 3

MAXIMUM BOTTOM DEPTH: 6

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 4.5

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

ISSUED BY: Hank Oswald

ISSUE DATE: 9/20/16

EXPIRATION DATE: 9/20/17

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

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

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM



ELECTRICAL PERMIT ISSUED

E 16003036

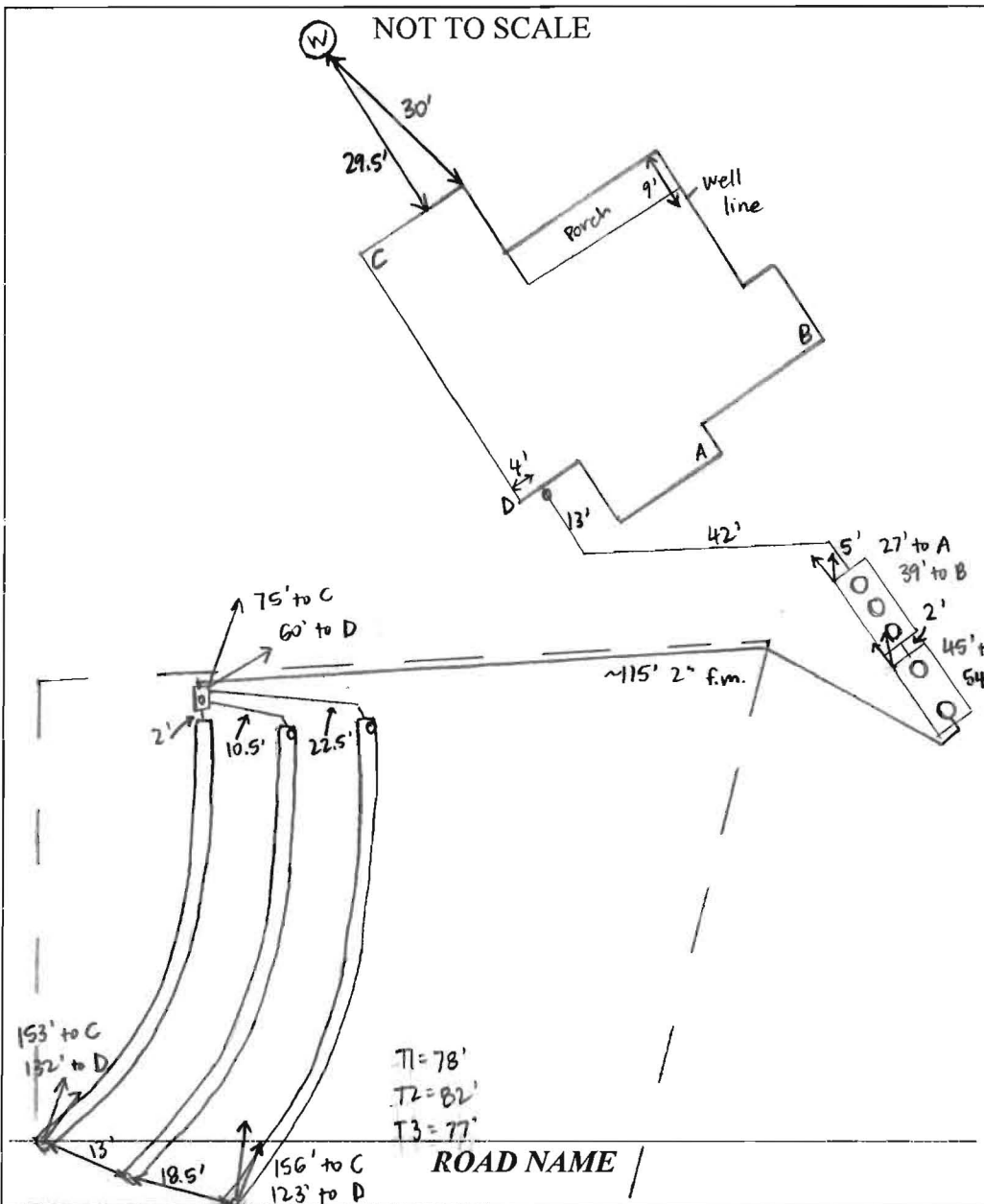
NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 TO SCHEDULE INSPECTIONS.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	6'
NUMBER OF TRENCHES		3
TOTAL LENGTH		237'
ABSORPTION AREA		711' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BACKRIVER / NORWECO
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-1.5'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	8-20-16
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	BACKRIVER
CAPACITY	1000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	8-19-16

PRE-CONSTRUCTION:

9/23/16 Met WTC on site for layout. All SDA stakes present, tank stakes not present. Moved tanks to just below SDA per builder's request (also on site). Force main should run just inside SDA edge to stay out of 100' well arc. Shot contour + laid out 3x79' trenches (SC)

INSTALLATION:

9/26/16 House connection made and tanks set. WTC about to dig force main from tank to D-box. (SC) 9/27/16 Force main run to D-box. T1 + T2 finished and left open at ends, WTC digging T3. 3' wide, 3.5' to stone, 6' to bottom on T3. 2" curved pipe as D-box observation port - need 4" pipe. (SC) 9/28/16 T3 finished + left open at end. 3' wide, 3.5' to stone, 4" PVC for D-box observation port. Need BAT startup certification and pump + alarm test. (SC) 10/4/16 BAT startup certification received. (SC) 2/2/17 on site for pump + alarm test. Pump pumps effluent to D-box, alarm sounds. Norweco startup good - alarm sounds + aerator runs. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 2/2/17



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Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM

THIS AGREEMENT is made this 28 day of May, 2014, among
LDG, Inc., hereinafter collectively referred to as
"Owner", and the Howard County Health Department hereinafter referred to as the
"County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at
736 Woodbine Crossing, Woodbine, MD 21797 (Lot 9), in the 04 Election District of Howard
County, Maryland, and the deed to same is recorded or shall be recorded among the Land
Records of Howard County, Maryland in Liber 1988 Folio 258.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage
disposal system with an advanced pre-treatment system, utilizing best available
technology to perform nitrogen reduction, in accordance with the Code of Maryland
Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable
time for access to the system to make periodic inspections and the Owner agrees to
provide any information and data in Owner's possession reasonably requested and
needed by the County to develop accurate and thorough test results.
B. Owner acknowledges and agrees that neither the County nor any of its agents or
employees, either officially or individually, underwrites the operation of any system
approved by them.
C. The Owner will devote reasonable care and effort to the operation and maintenance of
the system in perpetuity or until a public sewer connection is made so that a system
malfunction is not the result of poor maintenance, faulty operation, or neglect.
D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the
County with a private entity to operate and maintain on a regularly scheduled basis an
approved advanced pre-treatment system. The owner shall supply a copy of the contract
to the County when it is renewed or altered.
E. This agreement shall run with the land and upon Owner's taking title to the Lot shall
bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

Handwritten notes: 20, 40, 2

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Owner Date

Michael J. Davis 6/18/14
Howard County Health Department

[Signature] 6/9/14

Owner Date
LDG Inc. Bruce Lee

LR - Recording Fee (No Taxes) 20.00
Grantor/Grantee Name: Howard County
Reference/Control #: 91
LR - Surcharge 40.00
SubTotal: 60.00
Total: 660.00
06/18/2014 08:53 CC13-NW
#2931914 CC0503 -
Howard Co
Columbia/CC05.03.02 -
Register 02

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 736 Woodbine Crossing Rd., Mt. Airy, MD 21771 September 26, 2016 was installed according to the manufacture's specifications.

Installer: Walter Coon

Property Owner: Catonsville Homes, LLC

Permit #

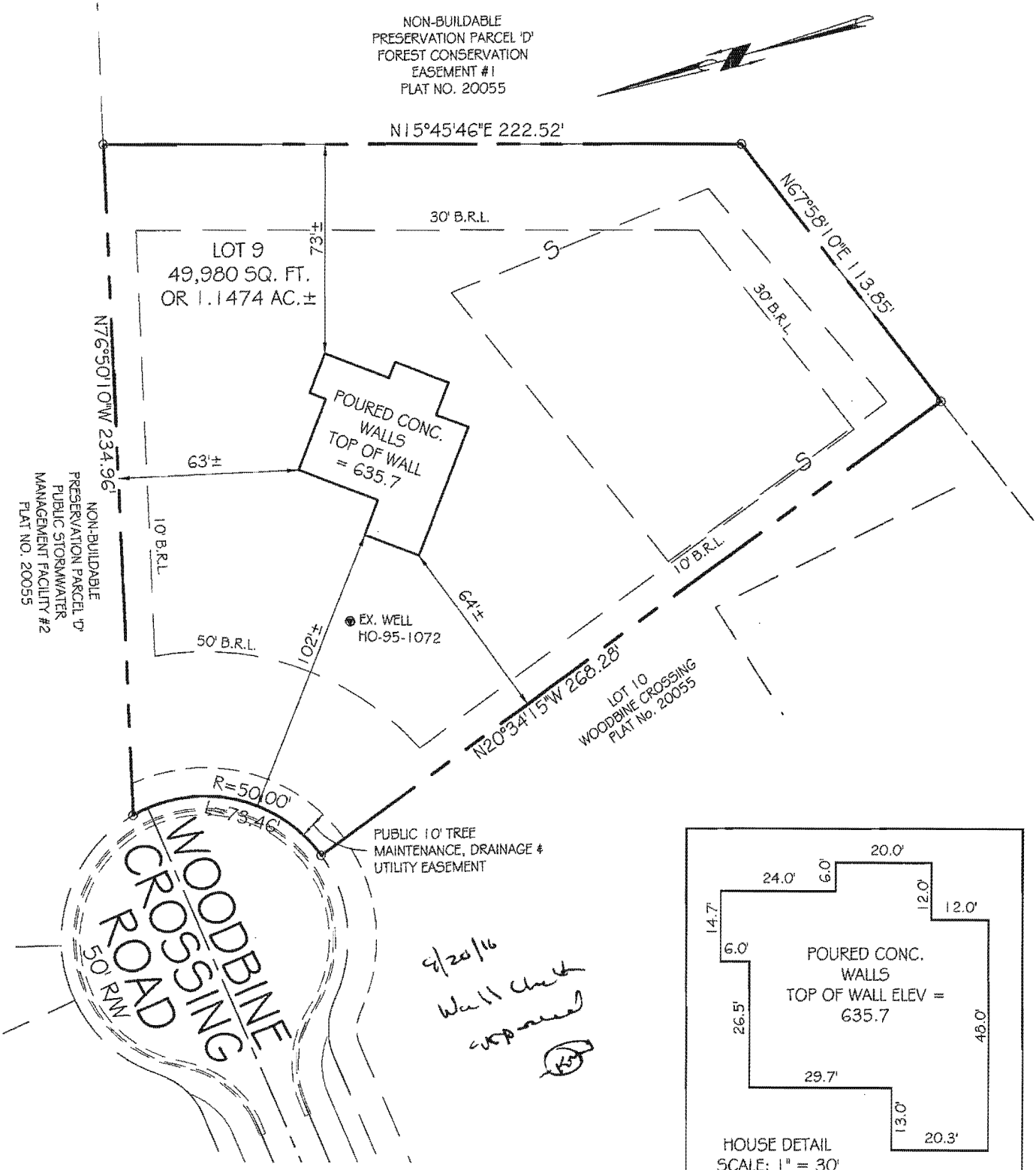
THIS CERTIFICATION IS FOR INSTALLATION ONLY. THE 5-YEAR OPERATIONS & MAINTENANCE AGREEMENT FROM DATE OF INSTALLATION WILL ONLY GO INTO EFFECT AFTER BACK RIVER PRE-CAST, LLC RECEIVES FINAL AND FULL PAYMENT FOR THE SYSTEM.



MATTHEW GECKLE
Vice-President

NOTES:

- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- 3) TOP OF WALL = 635.7



PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21097, EXPIRATION DATE JULY 26, 2017, IN ACCORDANCE WITH COMAR 06.03.06 §12.

(Signature)
 For VanMar Associates, Inc.
 Thomas L. Frazier, III, Professional Land Surveyor
 Date: 8/9/16

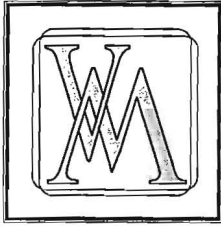
WALL CHECK DRAWING
 LOT 9
WOODBINE CROSSING
 PLAT No. 20055
 736 WOODBINE CROSSING ROAD
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' AUGUST, 2016

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 ©Copyright, Latest Date Shown

REFERENCE	JOB NO.
PLAT NO. 20055	B4-5416



**VANMAR
ASSOCIATES, INC.**

Engineers • Surveyors • Planners

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890
(301) 695-0600

(301) 831-5015

(410) 549-2751
Fax (301) 831-5603

May 17, 2016

Mr. Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

RE: Lot 9 Site Plan for BAT Installation
Woodbine Crossing Subdivision

The following is a response to the May 3, 2016 email comments.

1. *Alternate well sites do not meet 10 foot setback to proposed driveway.*

Response 1: The house location and driveway have been adjusted to meet the 10 ft. alternative well site setbacks.

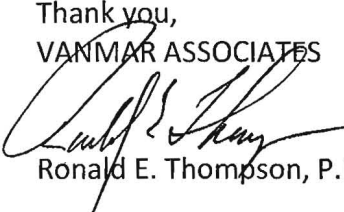
2. *SDA does not meet 20 foot setback to house.*

Response 2: The house location has been revised to meet the 20 foot setback to the SDA. Please note a pump tank has been added.

3. *SDA does not appear to match up with Perc Cert Plan. Perc test holes are located in a different location. (See attachment)*

Response 3: The SDA has been corrected to match up with the Perc Cert Plan.

Thank you,
VANMAR ASSOCIATES



Ronald E. Thompson, P.E.

LETTER OF TRANSMITTAL

AGENCY
 CLIENT
 FILE
 ACCT.
 CORR.
 OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
 310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
 301-829-2890 301-831-5015 301-695-0600
 410-549-2751 (FAX) 301-831-5603

TO: Howard County Environmental Health
 8930 Strafford Drive
 Columbia, Maryland 21045

Attn: Hank Oswald L.E.H.S.

DATE: May 17, 2016

PROJECT: Woodbine Crossing, Lot 9

VMA#: b45416

ENCLOSED:

Site Plan for BAT Technology SUBMISSION

COPIES	DATE	DESCRIPTION
4	5/17/16	Letter of Response to Email Comments dated 5/3/16
4	5/17/16	REVIED Site Plan for BAT Technology Lot 9, Woodbine Crossing

REMARKS: Hello Hank, the plan has been revised and submitted for review and approval. Thank you!

COPIES TO (ADDRESS): Catonsville Homes, 11175 Stratfield Boulevard, Marriottsville, Maryland 21104

SUBMITTED BY: dky

g:\engr\b45416 plot plan lot 9-bat plan revised hd submission 5.17.16

Oswald, Hank

From: Oswald, Hank
Sent: Monday, May 02, 2016 10:26 AM
To: Pam Walter (PWalter@catonsvillehomes.com)
Subject: BAT Plan_736 Woodbine Crossing Road
Attachments: Basement bedroom memo_736 Woodbine Crossing Road_5.2.2016.pdf

Hi Pam:

The BAT Plan for 736 Woodbine Crossing Road is sized for 4 bedrooms and the floor plan shows 4 bedrooms with potential for an extra bedroom in the basement with full bath rough-in. Please see attached basement bedroom memo.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

B-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition:
The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose:
To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies:
Where vegetative stabilization is to be established.

Criteria:

- Soil Preparation
 - Temporary Stabilization
 - Seeded 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 equipment. After the soil is loosened, it must be rolled or dragged smooth but not to the roughest condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
 - Apply fertilizer as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3 to 5 inches of soil by diskling or other suitable means.
 - Permanent Stabilization
 - A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
 - Soil pH between 5.0 and 7.0
 - Soluble salts less than 500 parts per million (ppm).
 - Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent all plus clay) to provide the capacity to hold a moderate amount of moisture. At least 10 percent of the soil must be silt loam, silty clay, or silty clay loam.
 - Soil contains 1.5 percent minimum organic matter by weight.
 - Soil contains sufficient pore space to permit adequate air penetration.
- Application of amendments or topsoil is required for all soil to be prepared. The topsoil must be maintained to a true and uniform grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
 - Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
 - Mix soil amendments into the top 3 to 5 inches of soil by diskling or other suitable means. Do not apply amendments to the surface, remove large objects like stones, branches, and roots from 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 seedling 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 3 to 5 inches of soil loose and friable. Seeded loosening may be unnecessary on newly disturbed areas.

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

Definition:
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.

Criteria:

- Seeding
 - All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B-4 regarding the quality of seed. Seed lots must be available upon request to the inspector to verify type of seed and seeding rate.
 - Mulch material must 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.
 - Incitants: The incitant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Incitants 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 inculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inculant less effective.
 - Soil or seed must not 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 phytotoxic materials.
- Application
 - Dry Seeding: This includes use of conventional drop or broadcast spreaders.
 - Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1. Permanent Seeding Table B.3, or site-specific seeding summaries.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. B.16 or D.11 or a Cultivator Seeding Mechanized seeders that apply seed cover seed with soil.
 - Cultipacking seeders are required to bury the seed to such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
 - If fertilizer is applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P2O5 (phosphorus), 200 pounds per acre; K2O (potassium), 200 pounds per acre.
 - Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons per acre should be hydroseeded at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Mix seed and fertilizer on site and seed immediately into the soil without interruption.
 - When hydroseeding do not incorporate seed into the soil.
 - Mulching
 - Mulch Materials (in order of preference)
 - Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds or species in the Maryland Seed Law and not stony, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
 - Wood Cellulose Fiber Mulch (WCM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCM is a co-extruded material that contains a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
 - WCM, including dye, must contain no germination or growth inhibiting factors.
 - WCM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water upon application and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a batter-like ground cover, on application, having moisture absorption and permeability properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCM material must not contain elements or compounds at concentration levels that will be phytotoxic.
 - WCM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum. B.17.
 - Application
 - Apply mulch to all seeded areas immediately after seeding.
 - 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 so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
 - Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to obtain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Anchoring
 - 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 on equipment available:
 - A mulch anchoring tool is a tractor draw implement designed to punch and anchor mulch into the soil surface in a continuous, steady, and uniform manner.
 - It is limited to slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
 - 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.
 - Synthetic binders such as Acrylic DLR (Aqua-Tack), DOR-70, Petrolast, Terra Tex II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. The application of binders to the soil surface where wind catches much, such as on valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
 - Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is easily available in rolls 6 to 15 feet wide and 300 to 3,000 feet long.

TEMPORARY STABILIZATION SPECIFICATIONS TABLE

No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
1	ANNUAL RYEGRASS	40	MAR 1 - MAY 15 JUN 1 - OCT 15	0.5 INCHES	436 lb/acre (10 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	FESTUCUE	30	AUG 1 - JULY 31	0.5 INCHES		

PERMANENT STABILIZATION SPECIFICATIONS TABLE

No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	N	P205	K20	Lime Rate
1	PERENNIAL RYEGRASS	20	MAY 1 - MAY 15 AUG 1 - OCT 15	1/4-1/2 in	45 pounds DOT 50# (1.0 lb/1000 sq ft)	90 lb/acre (2lb/1000 sq ft)	90 lb/acre (90 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	LEGUMES	20	MAY 1 - MAY 15 AUG 1 - OCT 15	1/4-1/2 in				

STANDARD STABILIZATION NOTE

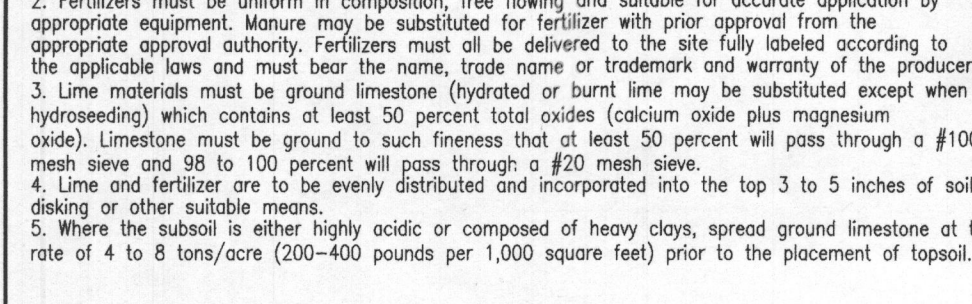
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- 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); AND
- SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE, NOT UNDER ACTIVE GRADING.

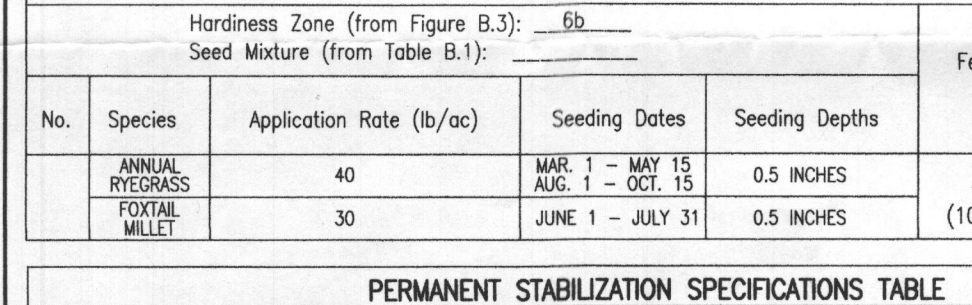
CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOLE. USE MINIMUM LENGTH OF 30 FEET (10 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. PLANE SOLE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SOLE UNDER THE ENTRANCE, MAIN MAINS, POLES, DRAINAGE STRUCTURES, OR OTHER OBSTACLES, MUST BE DIVERTED TO A MONITORABLE AND MAINTAINABLE DRAINAGE STRUCTURE. AN APPROVED PLAN MUST BE SUBMITTED TO THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING, AS SPECIFIED ON APPROVED PLAN, WHEN THE SOLE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO REMOVE AND TRACKED INTO PAVEMENT. A MONITORABLE BERM IS REQUIRED WHEN SOLE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CURBED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 4 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SOLE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MONITORABLE BERM AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE, AGGREGATE, SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCOPING, AND/OR BLOWING. WASHING ROADWAY TO REMOVE AND TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE. SLEEPS MUST BE TRACKED TO AN APPROVED DRAINAGE CONTROL STRUCTURE.

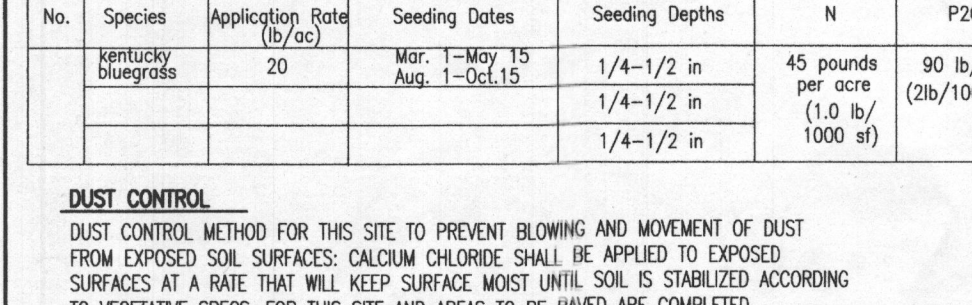
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



DETAIL E-1 SILT FENCE



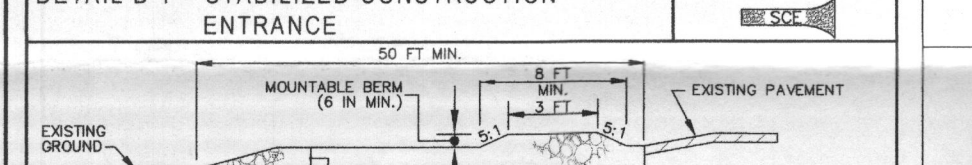
DETAIL E-3 SUPER SILT FENCE



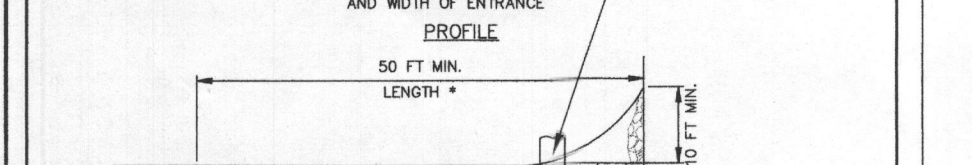
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JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)



JOINING TWO ADJACENT SILT FENCE SECTIONS (CROSS SECTION)



CONSTRUCTION SPECIFICATIONS

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.95 INCH WALL THICKNESS AND SIX FOOT LENGTHS NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
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SEEDING AND MULCHING

No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
1	ANNUAL RYEGRASS	40	MAR 1 - MAY 15 JUN 1 - OCT 15	0.5 INCHES	436 lb/acre (10 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	FESTUCUE	30	AUG 1 - JULY 31	0.5 INCHES		

PERMANENT SEEDING TABLE

No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	N	P205	K20	Lime Rate
1	PERENNIAL RYEGRASS	20	MAY 1 - MAY 15 AUG 1 - OCT 15	1/4-1/2 in	45 pounds DOT 50# (1.0 lb/1000 sq ft)	90 lb/acre (2lb/1000 sq ft)	90 lb/acre (90 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	LEGUMES	20	MAY 1 - MAY 15 AUG 1 - OCT 15	1/4-1/2 in				

STANDARD STABILIZATION NOTE

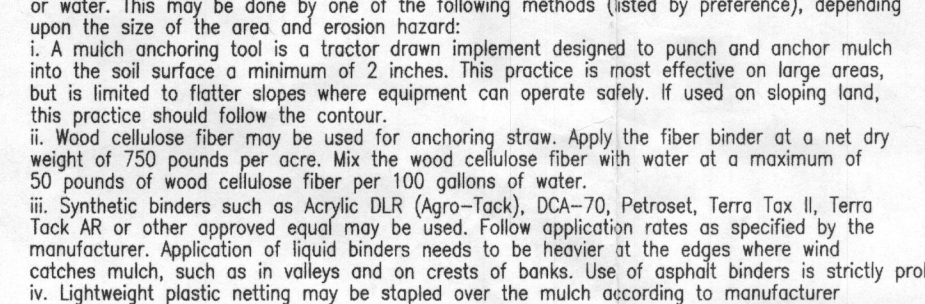
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- 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); AND
- SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE, NOT UNDER ACTIVE GRADING.

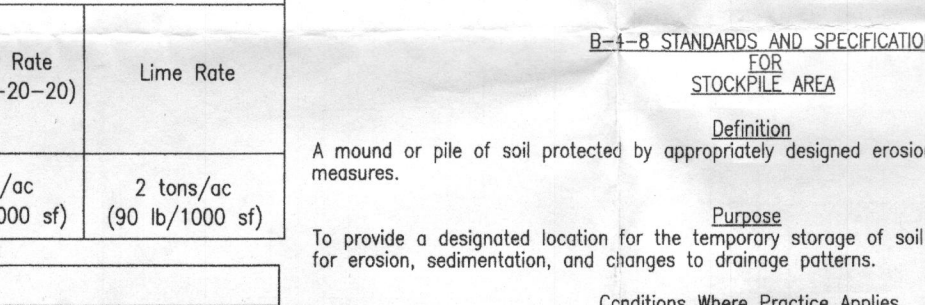
CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOLE. USE MINIMUM LENGTH OF 30 FEET (10 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. PLANE SOLE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SOLE UNDER THE ENTRANCE, MAIN MAINS, POLES, DRAINAGE STRUCTURES, OR OTHER OBSTACLES, MUST BE DIVERTED TO A MONITORABLE AND MAINTAINABLE DRAINAGE STRUCTURE. AN APPROVED PLAN MUST BE SUBMITTED TO THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING, AS SPECIFIED ON APPROVED PLAN, WHEN THE SOLE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO REMOVE AND TRACKED INTO PAVEMENT. A MONITORABLE BERM IS REQUIRED WHEN SOLE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CURBED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 4 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SOLE.
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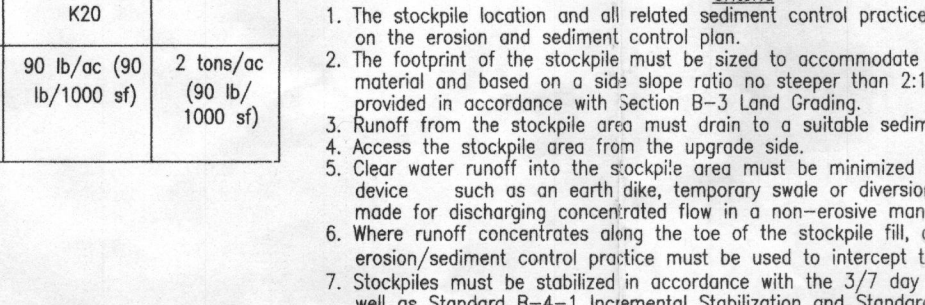
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



DETAIL E-1 SILT FENCE



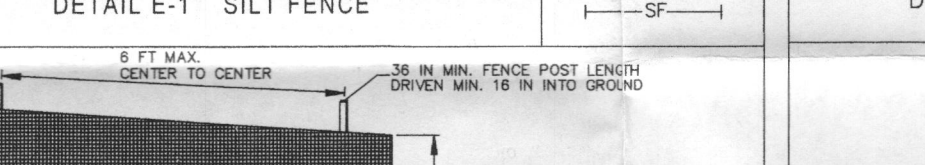
DETAIL E-3 SUPER SILT FENCE



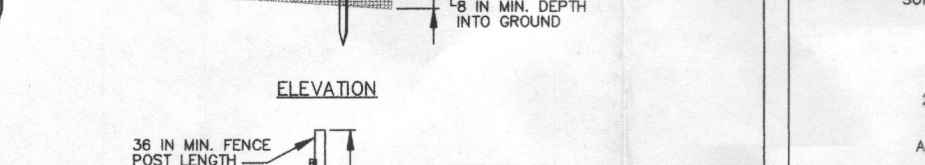
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JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)



JOINING TWO ADJACENT SILT FENCE SECTIONS (CROSS SECTION)



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