

LAYOUT _____ INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 4/6/2006

APPROVAL DATE: 9/14/2006

PERMIT

INDEXED

TAX ID #05-330951

**ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH**

P 524391

A 52130

*Babylon
410 848 0393*

J. C. Harris Plumbing & Heating IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS: 3120A Old Nat'l Pike, Middletown PHONE NUMBER: 301-371-7574
21769

SUBDIVISION: _____ LOT NUMBER: _____

ADDRESS: 580 Watersville Road PROPERTY OWNER: Charles Schroyer
Schroyer

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED ☐

PUMP CHAMBER CAPACITY (GALLONS): 1250 COMPARTMENTED TANK REQUIRED ☒

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 140 HOUSE SERVED BY PUBLIC WATER ☐

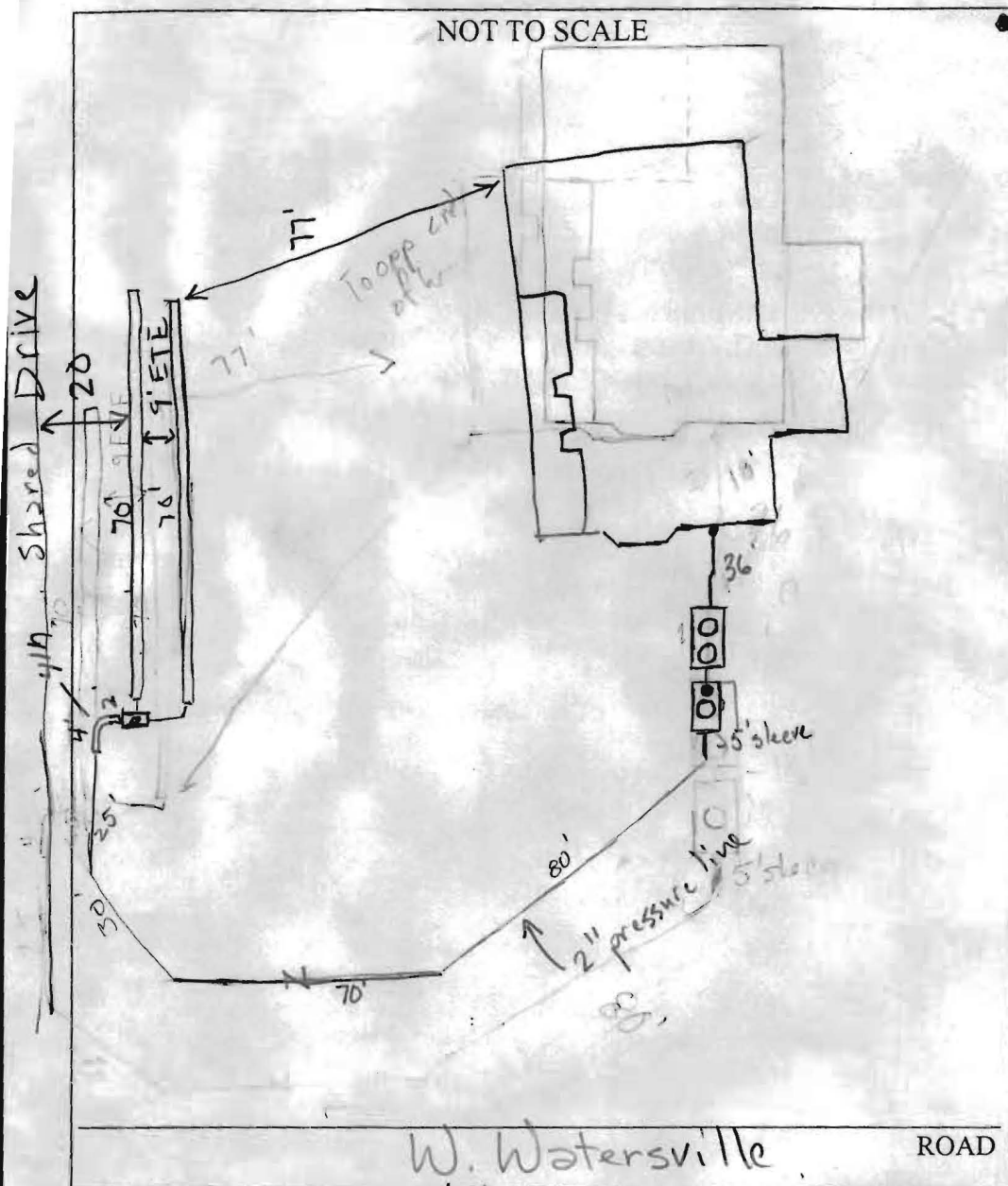
TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box in the highest elevation of the approved SDA.
NOTES:	

PLANS APPROVED: Kevin J. Bell Reviewed by: _____ DATE: 11/7/05

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**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
ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

P524391



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		
2		
TOTAL LENGTH		
140'		
ABSORPTION AREA		
DISTRIBUTION BOX LEVEL		
DISTRIBUTION BOX BAFFLE		
yes		
DISTRIBUTION BOX PORT		
yes		

SEPTIC TANK DATA		
SEPTIC TANK 1 LEVEL		
yes		
CAPACITY	1500	GAL
SEAM LOC	Top	
TANK LID DEPTH	1-3'	
BAFFLES	yes	
BAFFLE FILTER	No	
MANHOLE LOC	Both	
6" PORT LOC	N/A	
WATERTIGHT TEST	No	
SEPTIC TANK 2 LEVEL		
yes		
CAPACITY	1250	GAL
SEAM LOC	Top	
TANK LID DEPTH	3'	
BAFFLES	Inlet	
BAFFLE FILTER	N/A	
MANHOLE LOC	Mid	
6" PORT LOC	Inlet	
WATERTIGHT TEST	No	

PRE-CONSTRUCTION 4/11/06 Layout, set tanks coming straight out of house toward road - keep < 4' deep. Run 2x70' trenches

INSTALLATION from d-box placed 70' from one end of septic area. OK to start ~ 10' from top of SDA to Avoid tree stumps and power lines in top of area. Plenty of room for 5+ full repairs. (GAC)

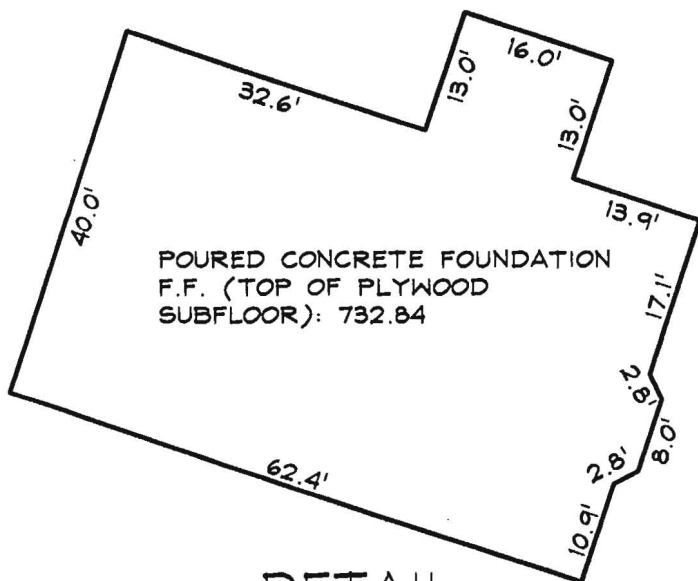
4/13/06 Open trench inspection trenches a few inches too shallow on end furthest from RD. < 6" though. OK. 4/14/06 pump line run and trenches stoned everything hooked up. (GAC)

Need pump? Alarm tests. (GAC) 7/28/06 No pump & Alarm tests needed per Mike (GAC)

FINAL INSPECTOR Salvador A. G. DATE OF APPROVAL 9/14/06

K. Bell

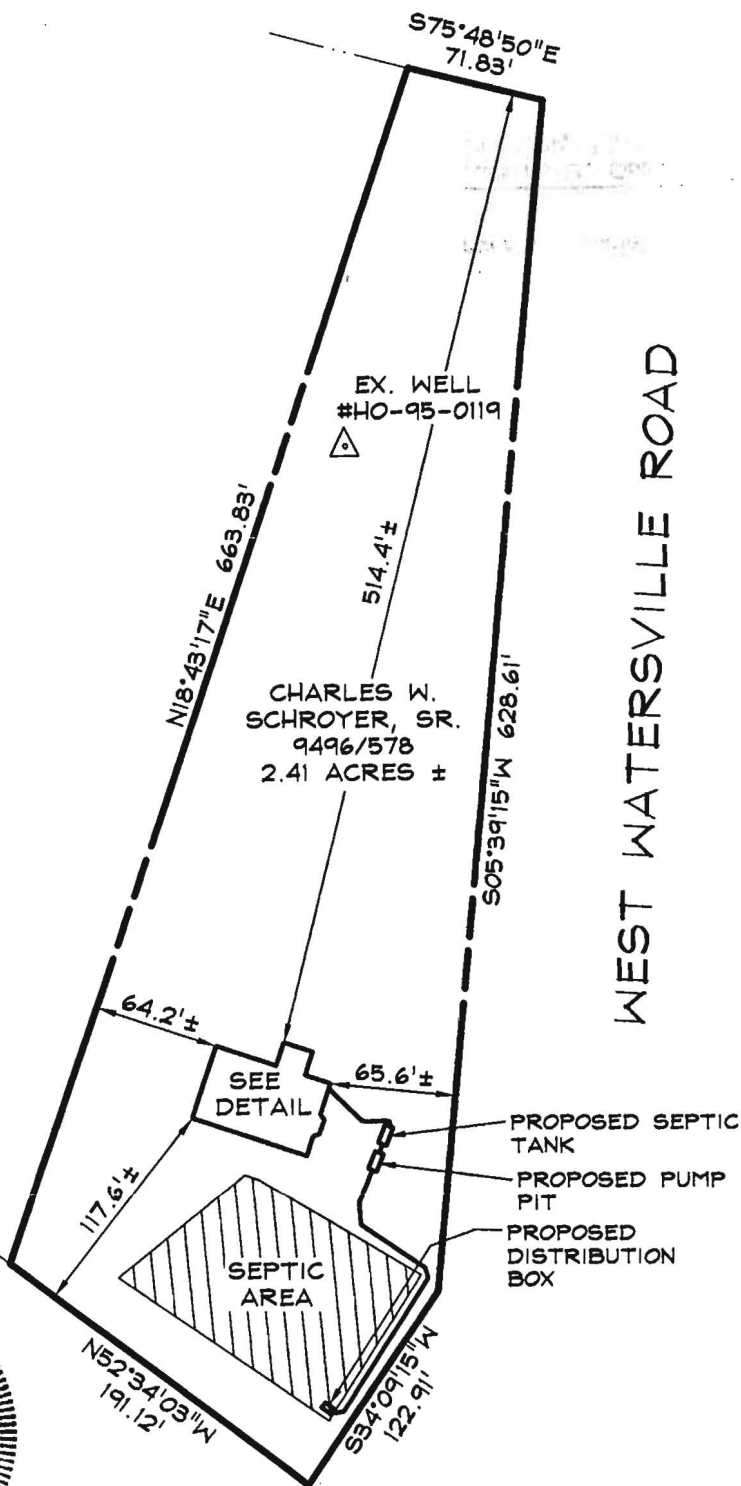
1/6/06
wall check
OK *RBS*



POURED CONCRETE FOUNDATION
F.F. (TOP OF PLYWOOD
SUBFLOOR): 732.84

DETAIL

1"=20'



WEST WATERSVILLE ROAD



SEPTIC SYSTEM ELEVATIONS

First Floor Elevation: 732.84
Basement Elevation: 723.17
Invert Out of the House: 720.67
Invert In Septic Tank: 719.87
Invert Out Septic Tank: 719.67
Invert in Pumping Station: 719.57
Invert in Distribution Box: 742.0
Existing Elevation @ Septic Tank: 721.37
Existing Elevation @ Distribution Box: 743.58

NOTE: MAINTAIN 2' MINIMUM COVER
OVER PIPE.

The purpose of this survey was
to locate the constructed foundation
in relation to the property lines
established in July, 2005 by KCE Engineering,
Inc., as shown on a plan entitled "Plot Plan,
Furr Property" dated 11/04/2005.

Robert B. Southard 12-29-05
Robert B. Southard Date
Property Line Surveyor #239

Permit # B00156404
DeMario Design Consultants, Inc.
580 W. Watersville Rd.
The Old Firehouse
66 East Main Street, Suite 200
Westminster, MD 21157
Phone: (410) 386-0560
Fax: (410) 386-0564
eMail: ddc@demariodesign.us

AS-BUILT SURVEY
CHARLES W. SCHROYER, SR.
PROPERTY

TAX MAP 2, GRID 14
PARCEL 55
L. 9496, F. 578

DATE: 12/29/05

DDC JOB#: 05148.1

DRN. BY: JAI

SCALE: 1"=100'

DES. BY: JAI

CHK. BY: *RBS*

STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- 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 recent 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes steeper 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 seeding (Sec. 51), and (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 grasses.
- 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:

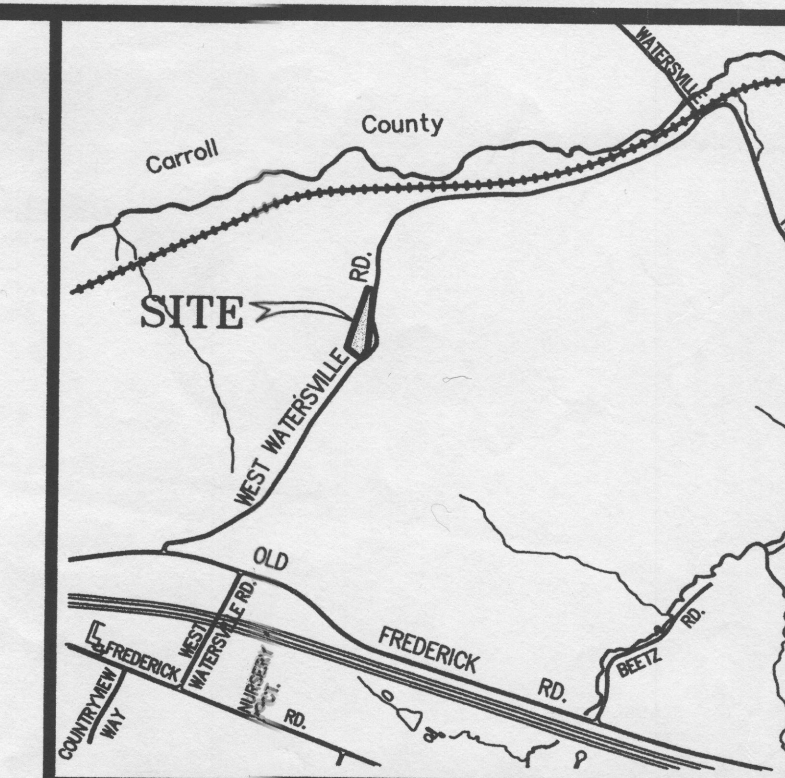
Total Area of Site	= 2.41	Acres
Area Disturbed	= 0.685	Acres = 29,850 sq. ft.
Area to be roofed or paved	= 0.107	Acres = 4,655 sq. ft.
Area to be vegetatively stabilized	= 0.58	Acres
Total Cut	= 1.05	Cu. Yds.
Total Fill	= 320	Cu. Yds.
Offsite waste/borrow area location:	to be borrowed from site with approved grading permit	
- 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 County Sediment Control Inspector.
- 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 shall be back-filled and stabilized within one working day, whichever is shorter.

SEQUENCE OF CONSTRUCTION

- Obtain a Grading Permit.
- Install Stone Construction Entrance.
- Install the sediment control measures as shown on plan.
- Perform necessary grading and stabilize the site with topsoil and seeding.
- After the site is permanently stabilized and permission is granted from the Howard County Sediment Control Inspector, remove sediment controls and stabilize any remaining disturbed areas.

SOILS LEGEND

SYMBOL	NAME/DESCRIPTION	TYPE
G1B2	Glenelg loam, 3 to 8% slopes, moderately eroded	B
G1C2	Glenelg loam, 8 to 15% slopes, moderately eroded	B



VICINITY MAP

SCALE 1:2000

LEGEND

- POWER POLE
- ✱ GUY ANCHOR
- ROAD SIGN
- ⊙ APPROX. LOCATION OF OLD PERC TEST
- OVERHEAD WIRE
- ⊗ SEPTIC CLEANOUT
- ⊙ C4 PERC HOLES LOCATED, TESTED & PASSED
- IPF DENOTES IRON PIPE FOUND
- EXISTING CONTOURS
- W1 PROPOSED WELL LOCATIONS
- EX. TREE LINE
- ⊙ C1 PERC HOLES LOCATED, NOT TESTED
- STABILIZATION CONSTRUCTION ENTRANCE (SCE) W/MOUNTABLE BERM
- LINE OF DISTURBANCE
- SF--- SF--- SILT FENCE

The existing well shown on this plan (identified with the attached well tag number # H0950119) has been field located by KCE Engineering Inc. and is accurately shown.

First Floor Elevation= 720.0
 Basement Elevation= 722.0
 Invert Out of the House= 720.0
 Invert in Septic Tank @2% = 719.24
 Invert Out Septic Tank = 719.04
 Invert in Pumping Station = 718.84
 Invert in Distribution Box = 741.30
 Existing Elevation @Septic Tank = 722.00
 Existing Elevation @Distribution Box = 742.30

NOTES:

- This site is zoned RC-DEO per the 10-18-93 Comprehensive Zoning Plan.
- BRL denotes Building Restriction Line.
- Driveway shall be provided per the following minimum requirements:
 - Width=12' (14' serving more than one residence);
 - Surface=6" of compacted crusher run base w/tar and chip coating (1-1/2" min.);
 - Geometry=Max. 15% grade, max. 10% grade change and min. 45' turning radius;
 - Structures (culverts/bridges)=capable of supporting 25 gross tons (H25 loading);
 - Drainage Elements=capable of safely passing 100-year flood with no more than 1 foot depth over driveway surface;
 - Maintenance=sufficient to insure all weather use.
- Topography shown here is based on field run topo performed by KCE Engineering, Inc. in July, 2005.
- Boundary survey was performed by KCE Engineering, Inc. in July, 2005.
- Elevations shown hereon are tied to Howard County NGVD 29 Datum.
- No steep slopes exist on site.
- Wells or septic within 100' of property line have been shown.
- Length of Trench to be determined at time of Septic Permit Issuance.
- Contractor to verify elevations in field before beginning any construction.
- Proposed 1500 gal. septic tank.
- The lot hereon complies with the minimum ownership, with a lot area as required by the Maryland State Department of the Environment.

THIS AREA DESIGNATES A PRIVATE EASEMENT OF MINIMUM OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS WILL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

PLOT PLAN
 FURR PROPERTY
 PARCEL 55, TAX MAP 2, GRID 14
 LIBER 6496, FOLIO 417
 MT. AIRY, HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 05110.00 DATE: 11/04/2005 SHEET: 1 OF 1



KCE ENGINEERING, INC.

EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE (410) 203-9800 FAX (410) 203-9228



CONTRACT DEVELOPER

CHARLES SCHROYER
 1225 EMMAUS ROAD
 WOODBINE, MD 21797

ENGINEER'S 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 Engineer
 DHARAM V. KATHURIA
 Print name of Engineer

11/2/05
 Date

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan, 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 Conservation District.

Signature of Developer
 Date

Reviewed for HOWARD SCD and meets Technical Requirements.

USDA-Natural Resources Conservation Service
 Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD
 Date