

LAYOUT 1/2/08 (1cu) INSP 4 _____
INSP 2 1/3/08 INSP 5 _____
INSP 3 1/4/08 INSP 6 _____

ISSUE DATE: 11/28/07

P 527 925

APPROVAL DATE: 4/25/08

A 518599

PERMIT

Logged Into Permit Manager
TAX ID # 05447909

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

Fogles IS PERMITTED TO INSTALL ☒ ALTER ☐
ADDRESS: 580 Obrecht Rd, Sykesville PHONE NUMBER: 410-795-5670
SUBDIVISION: Sheppard Manor LOT NUMBER: 14
ADDRESS: 4626 Sheppard Manor Dr. PROPERTY OWNER: Williamsburg Group LLC
SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED ☐
PUMP CHAMBER CAPACITY (GALLONS): _____ COMPARTMENTED TANK REQUIRED ☒
NUMBER OF BEDROOMS: 5 *Inlet 5'*
SQUARE FEET PER BEDROOM: _____ *bottom 7.5'*
LINEAR FEET OF TRENCH REQUIRED: ~~220~~ 194

| | |
|-----------|--|
| TRENCHES: | Trench to be 3.0 feet wide. Inlet 5.0 feet below original grade. Bottom maximum depth 7.5 feet below original grade. Effective area begins at 5.5 feet below original grade. 2.5 feet of stone below distribution pipe. |
| LOCATION: | 1.) Set distribution box at northeast corner of easement. 2.) Install 1x70" & 2x75" trenches on contour. 3.) If Septic tank is installed at more than 70 feet from wall, a line cleanout must be installed at 70 feet. |
| NOTES: | 1.) Stake easement corners. 2.) Call for Layout Inspection. 3.) Stone tickets must be available for inspector. |

PLANS APPROVED: Robert Bricker DATE: 10/12/07

NOTE: PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

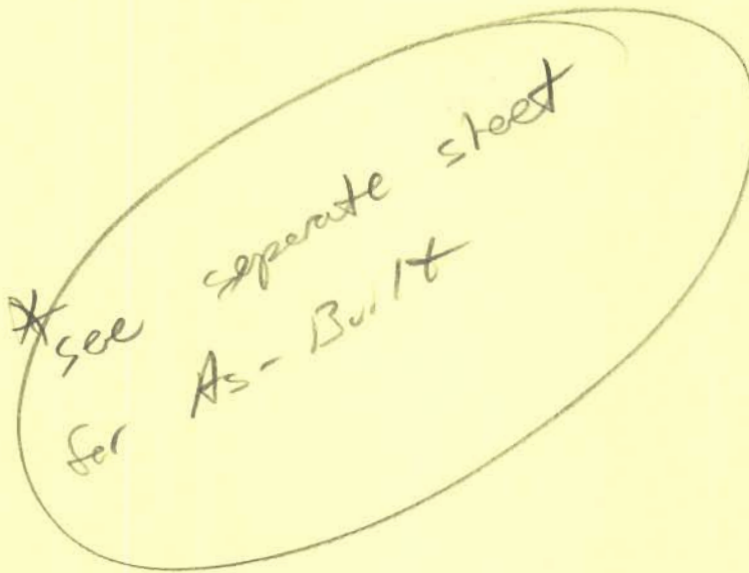
NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

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

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

**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**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|-------|----------------|
| 3 | 5' | 7.5' |
| NUMBER OF TRENCHES | | 3 |
| TOTAL LENGTH | | 201' |
| ABSORPTION AREA | | 603 + Sidewalk |
| DISTRIBUTION BOX LEVEL | | Leveler |
| DISTRIBUTION BOX BAFFLE | | Yes |
| DISTRIBUTION BOX PORT | | Yes |

SEPTIC TANK DATA

| | |
|---------------------|------------|
| SEPTIC TANK 1 LEVEL | Yes |
| CAPACITY | 2000 GAL |
| SEAM LOC | Top |
| TANK LID DEPTH | 2' |
| BAFFLES | Yes |
| BAFFLE FILTER | no |
| MANHOLE LOC | Front/Back |
| 6" PORT LOC | none |
| WATERTIGHT TEST | No |
| SEPTIC TANK 2 LEVEL | N/A |
| CAPACITY | GAL |
| SEAM LOC | |
| TANK LID DEPTH | |
| BAFFLES | |
| BAFFLE FILTER | |
| MANHOLE LOC | |
| 6" PORT LOC | |
| WATERTIGHT TEST | |

PRE-CONSTRUCTION 1/2/07 contractor to install a 50', 62', 82' on contour running away from house. Spec's changed accommodate INSTALLATION greater sidewalk absorption. (7.5' bottom). C/O required in house-to-tank line. open trench inspection required. (KW) 1/3/07 Tank set. Top trench dug for open trench inspection OK to continue. (KW) 1/4/07 Top 2 trenches completed per installation. Bottom being dug, stoned and piped. Need house connection. OK to backfill everything except D box. house conn and Bottom trench (KW) System complete. OK to cover. (KW) Need house connection

FINAL INSPECTOR B. Baker DATE OF APPROVAL 4/25/08

4/25/08 House connection made. (BB)

ROAD

HO-95-0736

78'

84'

Prop.
DME

108'

35'

84'

31'

111'

93'

4'

23'

4'

6'

9' ETE

84'

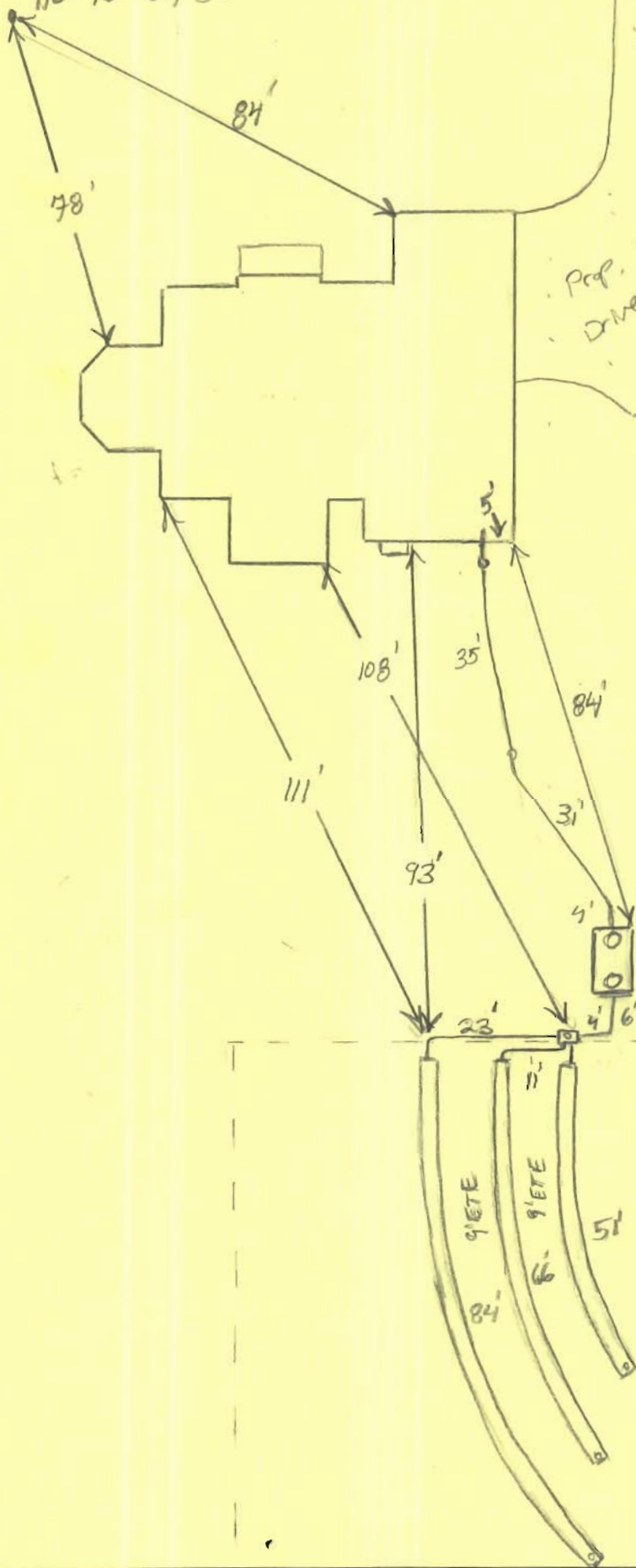
6'

9' ETE

51'

4626 Shoppard Manor Dr

NOT TO SCALE



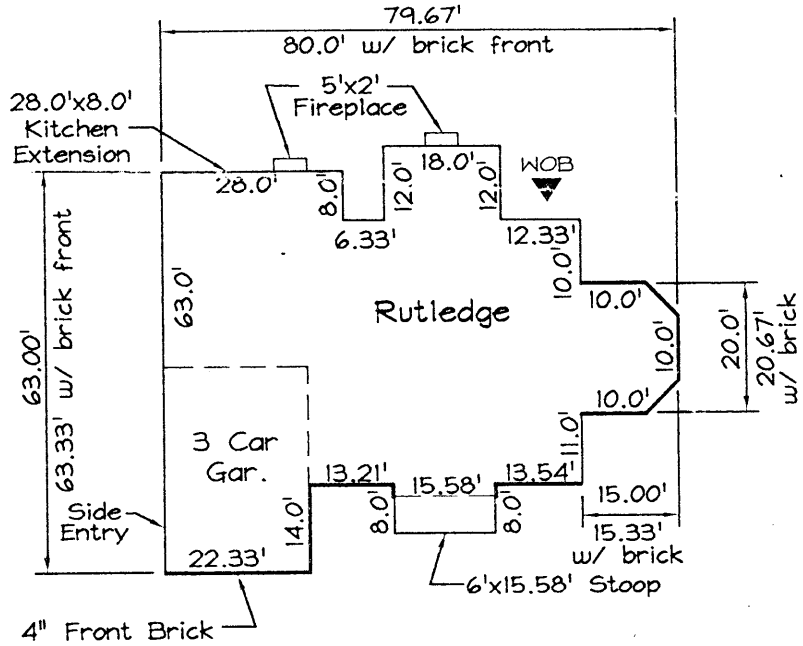
N 575,100
E 1,330,550

Maryland State Grid (NAD 83/91)

N 574,700
E 1,330,550

PLAN VIEW
SCALE: 1"=30'

HOUSE TYPE
NOT TO SCALE



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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 the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 s.f.) And 600 lbs. / acre (20.7 lbs./1000s.f.) of 10-20-20 before seeding. Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply a mixture of Turf Type Tall Fescue (80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

MULCHING: Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 tons/acre if a mulch anchoring tool is used). Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fiber/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agra-Tack), DCA-70, Petrosel and other approved equals may be used at rates recommended by the manufacturers.

| Permanent Seeding Summary | | | | | |
|--|--|----------------------------|----------------------------|---|---|
| Seed Mixture (Hardness Zone 2a and 2b) | | | Fertilizer Rate (10-20-20) | | |
| No. | Species | Application Rate (lb/acre) | Seeding Dates | Seeding Depth | Rate |
| 10 | Tall Fescue (80%) Hard Fescue (20%) | 30 30 | 3/1-5/15 8/15-11/15 | 0.5 in. (2.0lb/1000s.f.) (4lb/1000s.f.) (1000sf) | 2 tons/acre (100lb/1000sf) (1000sf) |

TEMPORARY SEEDING NOTES

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 the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 s.f.) And 600 lbs. / acre (15 lbs/1000s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

MULCHING: Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 tons/acre if a mulch anchoring tool is used). Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fiber/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agra-Tack), DCA-70, Petrosel and other approved equals may be used at rates recommended by the manufacturers.

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

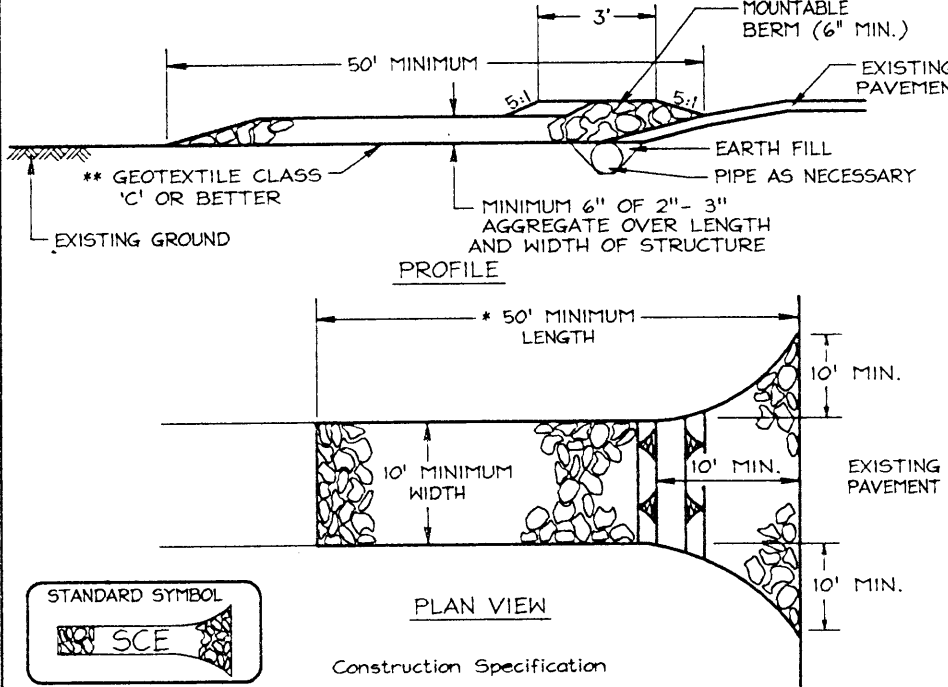
| Temporary Seeding Summary | | | | | |
|--|-----------------------------------|----------------------------|---|---|-------------------------------|
| Seed Mixture (Hardness Zone 2a and 2b) | | | Fertilizer Rate (10-10-10) | | |
| No. | Species | Application Rate (lb/acre) | Seeding Dates | Seeding Depth | Rate |
| 10 | Barley or Rye plus Foxtail Millet | 150 lbs (3.5lbs/1000sf) | 2/1-11/30 (7a) 3/15-10/31 (6a) | 1/4 in. 1/2 in. (15lb/1000sf) (100lb/1000sf) | 2 tons/acre (100lb/1000sf) |

SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permitting, Sediment Control Division prior to the start of any construction (410-313-1855).
- All vegetation and structural practices are to be installed in accordance with the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and 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 7, 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, soil, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 | 1.144 Acres |
| Area Disturbed | 0.682 Acres |
| Area to be roofed or paved | 0.140 Acres |
| Area to be vegetatively stabilized | 0.342 Acres |
| Total Cut | * 235 CF |
| Offsite waste/borrow area location | * 1,157 CF |

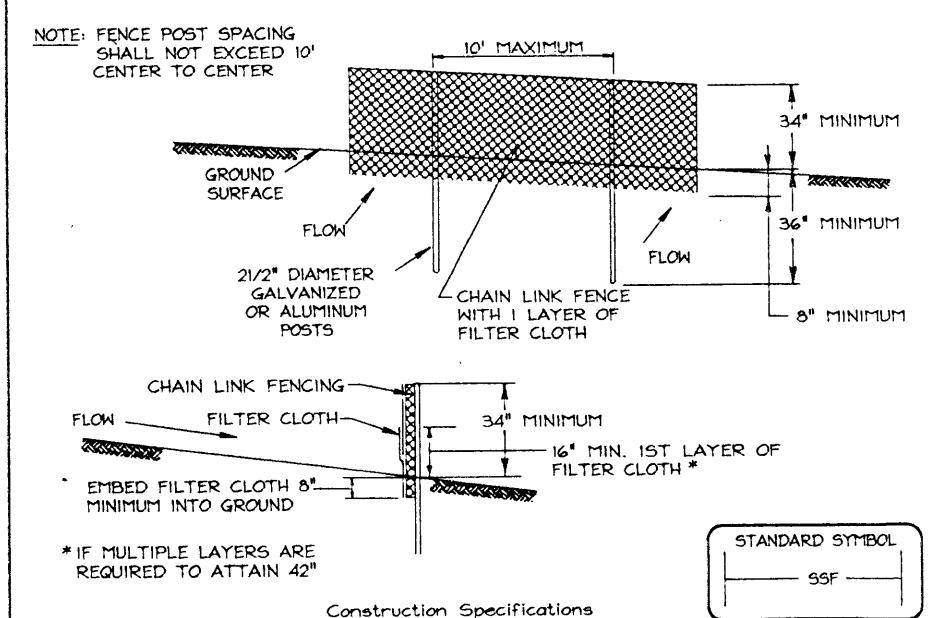
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 50' (+30' for a single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- 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.
- 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 mountable berm with 5' 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.
- 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.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DETAIL 33 - SUPER SILT FENCE



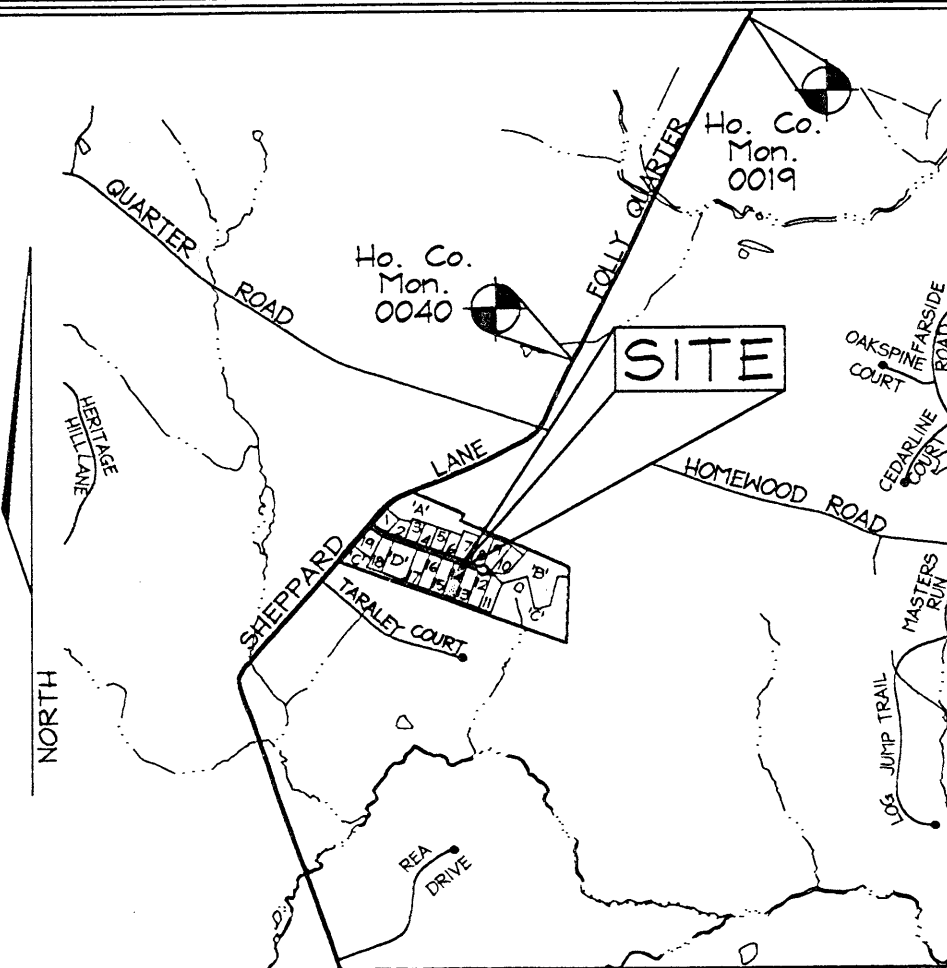
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- 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.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

| | | |
|----------------------|--------------------------|----------------|
| Tensile Strength | 50 lbs/in (min.) | Test: MSMT 504 |
| Tensile Modulus | 20 lbs/in (min.) | Test: MSMT 508 |
| Flow Rate | 0.3 gal/ft minute (max.) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 322 |

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

LEGEND

- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Flow
- Tree Protection Fence
- Existing Trees to Remain
- Super Silt Fence
- Limit of Disturbance
- Soil Boundary



VICINITY MAP
SCALE: 1"=2000'
ADC MAP 10 E13, 14 E1

BENCHMARKS

| | | | |
|-----------|----------------|-----------------|-----------------------|
| Sta. 0019 | N 176,927.0394 | E 406,505.1110 | EL: 117.6061 (meters) |
| Sta. 0040 | N 175,952.4260 | E 405,995.1970 | EL: 111.3465 (meters) |
| | N 577,270.584 | E 1,332,002.575 | EL: 365.309 (feet) |

GENERAL NOTES

- This property is zoned "RC-DEO" per the 02/02/04 Comprehensive Zoning Plan and the Comp. Lite Zoning Regulations Amendments effective 07/28/06.
- Public water and private sewer will be used within this site.
- This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewerage is available. 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 a modified sewage easement shall not be necessary.
- The septic fields are located on soil types Brc2, Brc3, MIB2, MIB3, MIB2 and MIB3 as per the soil survey of Howard County, Soils Map 2a.
- On-site topography based on a Field Run Topographic Survey prepared by FSH Associates dated 1/12/04. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five foot contours.
- Spill Material of Septic Trench Excavation shall be placed uphill of trench.
- Private water and sewer will be used within this site.
- When digging septic trenches contractor shall place excavated material on the uphill side of the trench.

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 24 hours before starting any work.
- Install Stabilized Construction Entrance.
- After receiving permission from the sediment control inspector, rough grade site and begin building construction.
- Construct driveway and finish building construction.
- Fine grade site.
- Upon stabilization of all disturbed areas and with the permission of the Sediment Control Inspector, remove all sediment control measures and stabilize any remaining disturbed area.

OWNER/DEVELOPER

WILLIAMSBURG GROUP LLC
5485 Harpers Farm Road #200
Columbia, Maryland 21044-3834
Telephone: (410) 997-8800
Fax: (410) 997-4358

GP-08-15

PLOT PLAN

SHEPPARD MANOR LOT 14

TAX MAP 39 GRIDS 01
5TH ELECTION DISTRICT

PARCEL 268
HOWARD COUNTY, MARYLAND



FSH Associates

Engineers Planners Surveyors
6339 Howard Lane, Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fsh.net

DESIGN BY: AY
DRAWN BY: AY
CHECKED BY: ZTF
SCALE: As shown
DATE: Aug. 16, 2007
W.O. No.: 3160
SHEET No.: 1 OF 1

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #34369, Expiration Date: 7/08/2009.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA-NATURAL RESOURCE CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD SCD

ENGINEERS CERTIFICATE

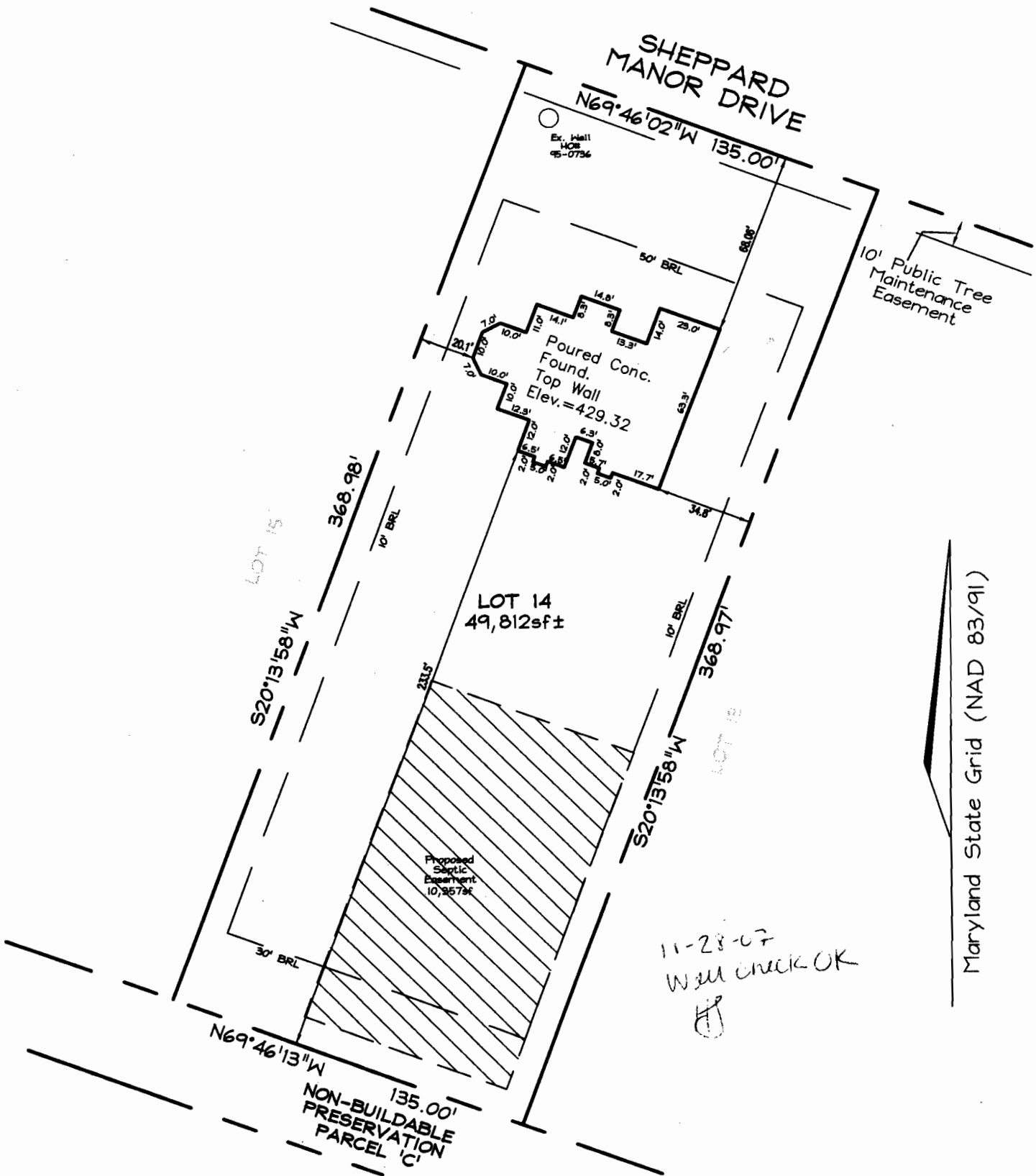
I, CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER
MICHAEL L. TAYLOR JR.

DEVELOPER'S CERTIFICATE

I, HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEING PERMITTED TO CONDUCT ANY CONSTRUCTION ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF DEVELOPER
DATE



F/P = FIREPLACE
B/W = BAY WINDOW
D/W = DRIVEWAY
CONC = CONCRETE

O/H = OVERHANG
H/P = HEAT PUMP
G/M = GAS METER
E/M = ELECTRIC METER

DIMENSIONS FROM FOUN. WALL TO PROPERTY LINE ARE +/-0.1'
ADDRESS No.: 4626 SHEPPARD MANOR DRIVE

TOP OF WALL ELEV. = 429.32

THIS LOCATION DRAWING IS OF BENEFIT TO THE 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.

THIS LOCATION DRAWING IS NOT TO BE RELIED UPON FOR THE ES-
TABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR
OTHER EXISTING OR FUTURE IMPROVEMENTS.

THIS LOCATION DRAWING 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.

FSH Associates

Engineers Planners Surveyors

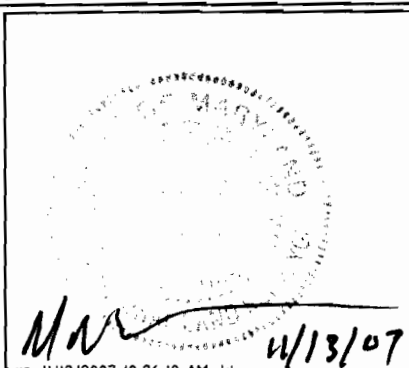
6339 Howard Lane, Elkridge, MD 21075

Tel: 410-567-5200 Fax: 410-796-1562

E-mail: FSHERI.COM

WALL CHECK

| | |
|------------|----------------|
| FOUNDATION | Date: 11/09/07 |
| FINAL | Date: |
| DRAWN BY: | RJS |
| SCALE: | 1"=50' |
| W.O. No.: | 3160 |



LOT 14
#4626 SHEPPARD
MANOR DRIVE

PLAT #19209

TAX MAP 29 GRID 1 PARCEL 268
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND