

LAYOUT \_\_\_\_\_

INSP 1 \_\_\_\_\_ INSP 3 \_\_\_\_\_

INSP 2 \_\_\_\_\_ INSP 5 \_\_\_\_\_

ISSUE DATE: 12/7/04

P 521605

APPROVAL DATE: \_\_\_\_\_

4/27/05

# PERMIT SHARED SEPTIC SYSTEM

A

INDEXED

03343642

## HOUSE SEWER LINE CONNECTION

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH

NVR Inc. t/a Ryan Homes IS PERMITTED TO INSTALL  ALTER

ADDRESS: 6085 Marshalee Dr., Suite 140 Elkridge PHONE NUMBER: 410-796-0980

SUBDIVISION Homeland LOT NUMBER: 76

ADDRESS: 3036 Harbin Field PROPERTY OWNER: NVR., Inc t/a Ryan Homes

NUMBER OF BEDROOMS: 2

HOUSE SERVED BY PUBLIC WATER? YES

|           |   |
|-----------|---|
| LOCATION: | Install 4" house sewer line connection per the approved site plan.  |
| NOTES:    | This permit is limited to the installation of the individual house sewer line connection and installation of the grinder pump, if applicable. The Howard County Bureau of Utilities must be contacted for scheduling of inspection of these items, as well at 410-313-4900. |

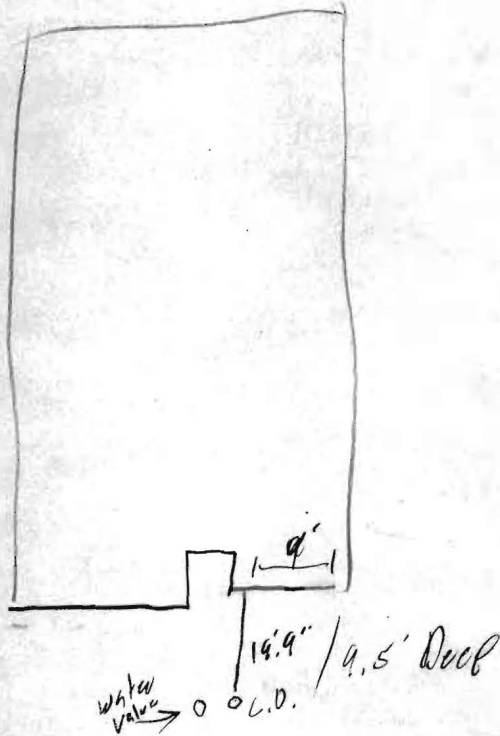
PLANS APPROVED: Kevin J. Bell DATE: 12/20/04

### PERMIT VOID AFTER 2 YEARS

1. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS.
2. ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED.
3. MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED.
4. CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT.
5. NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
6. PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 FOR INSPECTION HOUSE CONNECTION

NOT TO SCALE



*Harbin field*

ROAD

**TRENCH/DRAINFIELD DATA**

WIDTH \_\_\_\_\_ INLET \_\_\_\_\_ BOTTOM \_\_\_\_\_

NUMBER OF TRENCHES \_\_\_\_\_

TOTAL LENGTH \_\_\_\_\_

ABSORPTION AREA \_\_\_\_\_

DISTRIBUTION BOX LEVEL \_\_\_\_\_

DISTRIBUTION BOX BAFFLE \_\_\_\_\_

DISTRIBUTION BOX PORT \_\_\_\_\_

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL \_\_\_\_\_

CAPACITY \_\_\_\_\_ GAL

SEAM LOC \_\_\_\_\_

TANK LID DEPTH \_\_\_\_\_

BAFFLES \_\_\_\_\_

BAFFLE FILTER \_\_\_\_\_

MANHOLE LOC \_\_\_\_\_

6" PORT LOC \_\_\_\_\_

WATERTIGHT TEST \_\_\_\_\_

SEPTIC TANK 2 LEVEL \_\_\_\_\_

CAPACITY \_\_\_\_\_ GAL

SEAM LOC \_\_\_\_\_

TANK LID DEPTH \_\_\_\_\_

BAFFLES \_\_\_\_\_

BAFFLE FILTER \_\_\_\_\_

MANHOLE LOC \_\_\_\_\_

6" PORT LOC \_\_\_\_\_

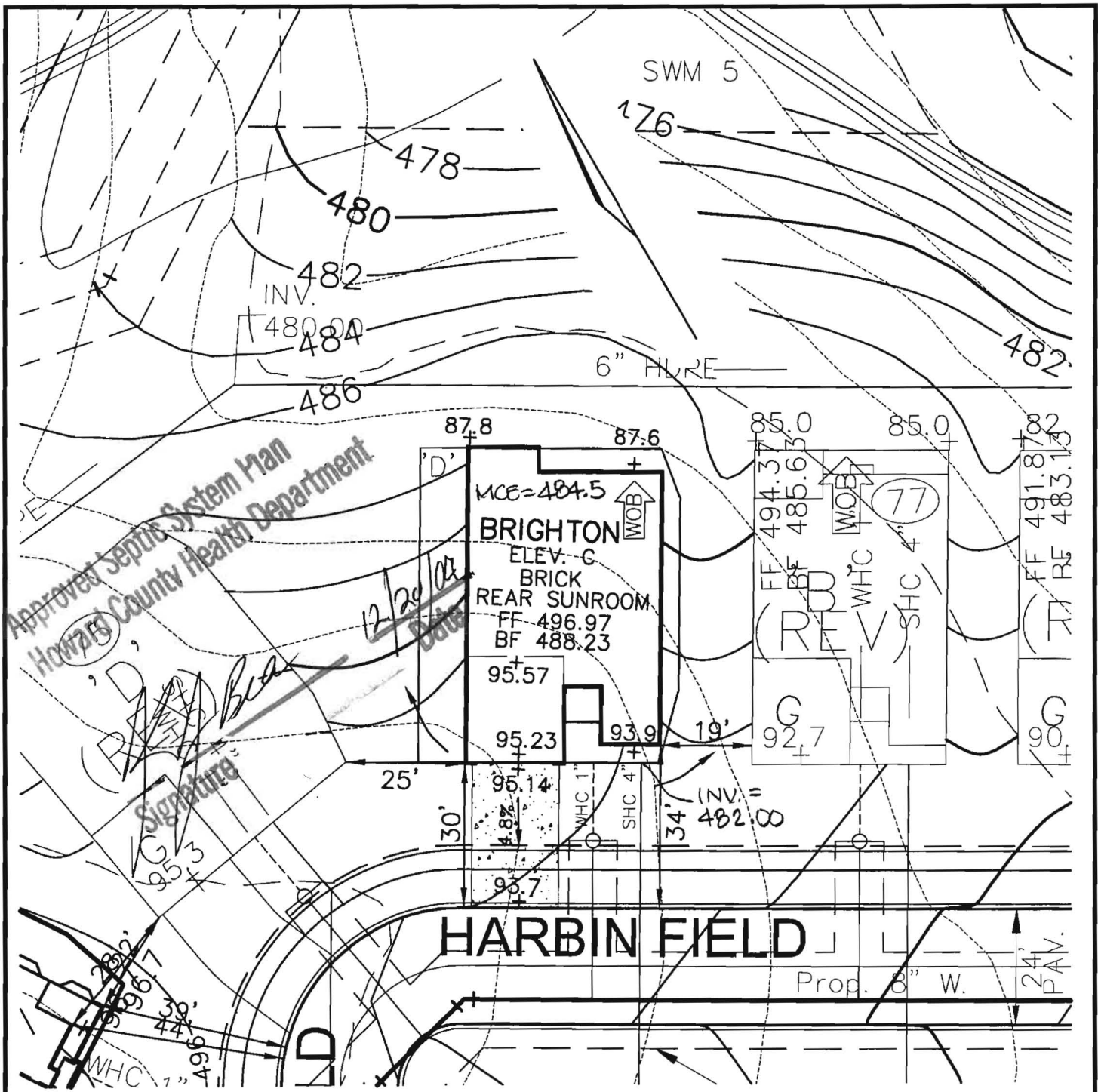
WATERTIGHT TEST \_\_\_\_\_

PRE-CONSTRUCTION \_\_\_\_\_

INSTALLATION 3/11/05 - Sewer House can covered  
Plumber to send as built (50)  
4/27/05 received as built 50

FINAL INSPECTOR *[Signature]*

DATE OF APPROVAL 4/27/05



**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET TEL: 410.461.7666  
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

NOTE:  
 ALL DIMENSION ARE FROM  
 ARCHITECTURAL BRICK LEDGE.

SCALE 1"=30'  
 DRAWN BY JCO  
 CHECKED BY RHV  
 DATE DECEMBER 1, 2004  
 W. O. # 04-87.00  
 SHEET# 1 OF 1

**RYAN HOMES  
 ELLICOTT MEADOWS  
 UNIT 76**

HOMELAND SDP-03-30  
 TAX MAP 16  
 3RD ELECTION DISTRICT

PARCEL 53,96,165&204  
 HOWARD COUNTY, MARYLAND

Methods.  
 Manufacturer's Operation and Maintenance Manuals

provide operations and maintenance

and at least 60 days prior to the date set for  
 to the Owner five (5) Operation and  
 and electrical systems and equipment  
 include all installation, operation, start-up and  
 noted in the manuals shall consist of catalogs,  
 files, parts, lists, assembly drawings, wiring  
 and maintenance measures, approved working  
 drawings for the Owner to establish an effective

provided in 3-ring loose-leaf binders and indexed.  
 to above dimensions and placed in envelopes

to Operator and/or Owner in understanding the  
 limitations of the equipment as well as to  
 performance. Technical and maintenance information  
 and electrical components shall be included  
 but not limited to, Operation Responsibilities,  
 Design Criteria, Operational Modifications,  
 Component Equipment O&M, System Equipment  
 and As-Builts.

Completion of the facilities will not be undertaken until  
 all manuals have been submitted. Partial approvals

|                                    |           |                         |
|------------------------------------|-----------|-------------------------|
| NH <sub>3</sub> -N                 | 35        | mg/L                    |
| Alkalinity (as CaCO <sub>3</sub> ) | 100       | mg/L                    |
| pH                                 | 6.0 - 9.0 | S.U.                    |
| Water Temperature Min.             | 15        | °C                      |
| Water Temperature Max              | 28        | °C                      |
| Air Temperature Min.               | 0         | °F                      |
| Air Temperature Max                | 100       | °F                      |
| Site Elevation                     | 442       | ft                      |
| <b>Effluent Characteristics</b>    |           |                         |
| BOD <sub>5</sub> (20°C)            | 30        | mg/L                    |
| Total Suspended Solids             | 30        | mg/L                    |
| NH <sub>3</sub> -N                 | 1.0       | mg/L                    |
| Total Nitrogen (N)                 | 10.0      | mg/l                    |
| <b>Influent Pumping</b>            |           |                         |
| Average design rate in             | 15.3      | gpm                     |
| Peak rate in                       | 61.2      | gpm @ 4 x Avg.          |
| Pump rate provided                 | 70        | gpm 1 pump<br>(28' TDH) |

PUBLIC WATER +  
 PRIVATE SHARED SEPTIC  
 SYSTEM

HOMELAND SENIOR CENTER  
 147 UNITS TOTAL  
 EACH UNIT CAN ONLY  
 BE A TOTAL OF 2 BEDROOMS

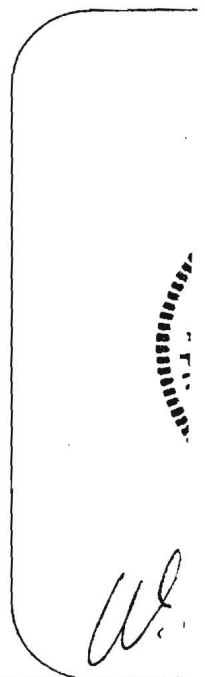
SDP-03-030

Approved Septic System Plan MDE  
 Howard County Health Department

Approved Septic System Plan  
 Howard County Health Department

*[Signature]*  
 Signature      9-2-03  
 Date

*Steven Roger King*  
 Signature      9/2/03  
 Date



Methods.  
Operator's Operation and Maintenance Manuals

provide operations and maintenance

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SDP-03-030

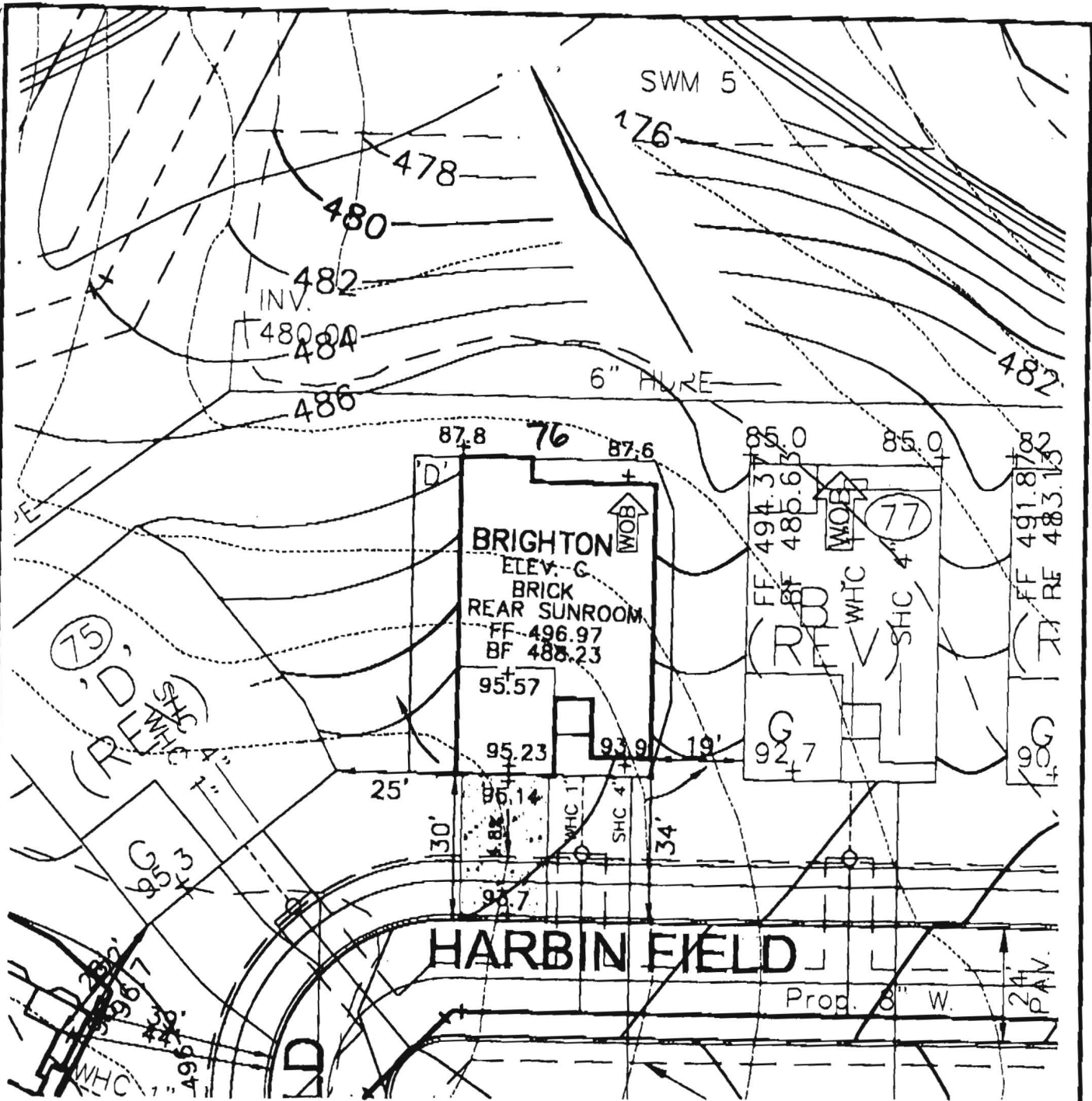
Approved Septic System Plan MDE  
Howard County Health Department

Approved Septic System Plan  
Howard County Health Department

Randy M. Hoff 9-2-03  
Signature Date

Steven Roger Krieg 9/2/03  
Signature Date

W.



**VA** **ROBERT H. VOGEL**  
**ENGINEERING, INC.**  
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**ELLICOTT MEADOWS**  
**UNIT 76**

HOMELAND SDP-03-30  
 TAX MAP 18  
 3RD ELECTION DISTRICT

PARCEL 53,98,165&204  
 HOWARD COUNTY, MARYLAND



## HOWARD COUNTY HEALTH DEPARTMENT

Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia MD 21046  
(410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-877-4MD-DHMH

---

*Penny E. Borenstein, M.D., M.P.H., County Health Officer*

4/27/2005

NVR Inc. t/a Ryan Homes  
6085 Marshalee Drive, Suite 140  
Elkridge, Maryland 21075

**SENT VIA FACSIMILE 410-796-7094**

RE: Homeland, Lot 76  
3036 Harbin Field  
Ellicott City, MD 21043  
BP # B001~~52105~~ 151443  
**PUBLIC WATER**

Dear Sirs or Madam:

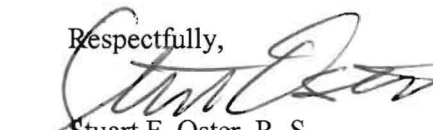
This is to advise that the connection from the house to the street has been installed and inspected for the referenced property. A Community Septic System serves this dwelling. **Final approval was granted on 4/27/2005 by HCHD for the house connection.**

The property is served by public water and is therefore exempt from the Health Department water sampling requirements.

By issuance of this letter, this office recommends release of the Use and Occupancy permit for the referenced property.

### RECOMMENDATION FOR USE AND OCCUPANCY

Respectfully,



Stuart F. Oster, R. S.  
Well and Septic Program

cc: DILP, Building Inspectors Office  
File