

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

ISSUE DATE: 8/24/2006

P 525177

APPROVAL DATE: 8/31/06

A 522847

PERMIT

TAX ID #03-297861

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

David Edson IS PERMITTED TO INSTALL ALTER

ADDRESS: 9869 Hemwood Court PHONE NUMBER: 410-750-1889

SUBDIVISION: _____ LOT NUMBER: _____

ADDRESS: 1097 Underwood Road PROPERTY OWNER: David & Kimberly Edson

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

PUMP CHAMBER CAPACITY (GALLONS): n/a COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 300

LINEAR FEET OF TRENCH REQUIRED: 248 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 6.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place the septic tank & distribution box as shown on the approved building permit plan. Run 3-80' plus length trenches on contour, but no longer than 100' in length.
NOTES:	Basement gravity service is proposed.

PLANS APPROVED: Kacie Noonan Reviewed by: _____ DATE: 3/30/06

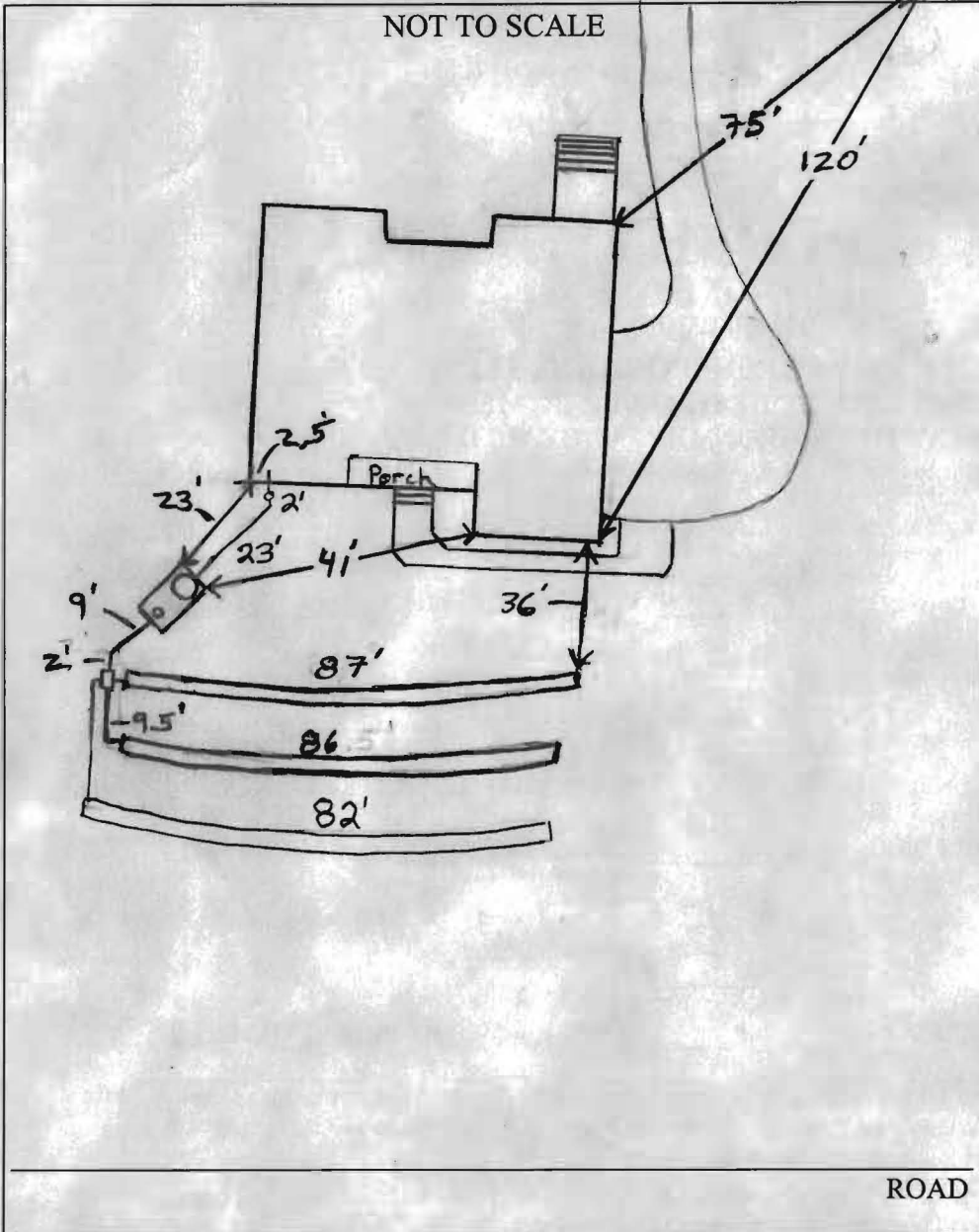
NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND 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
CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

4522847

well {H0-95-0268}

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		255'
ABSORPTION AREA		765 + Sidewall
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		No

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Level
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	2'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	NA

Babylon
2 comp

SEPTIC TANK 2 LEVEL	
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

PRE-CONSTRUCTION 8/25/06 Septic Area not staked. Could not do L. (K)

8/30/06 To install 3 trenches on contour. Put D box a

INSTALLATION little outside septic area near top left corner of SDA.

Installation: 8/30/06 Top 2 trenches installed. No plumbing from house to septic tank. (KW)

8/31/06 System finished, O.K. to cover everything. (BB)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 8/31/06

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

A 513203-K

DISTRICT _____

DATE _____

DATE SYSTEM APPROVED _____

INSPECTOR _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXXX~~ 410-313-2640

INDEXED

RPS #03-297861

IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS _____ PHONE _____

SUBDIVISION _____ LOT _____ ROAD 1097 Underwood Road

PROPERTY OWNER John Williams

ADDRESS _____

PLANS APPROVED BY _____ DATE _____

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

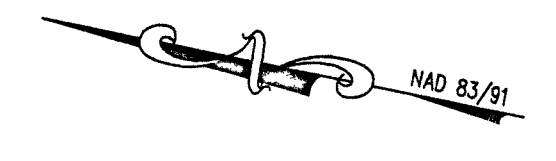
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

HD-280(6-90)

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

A 513203K



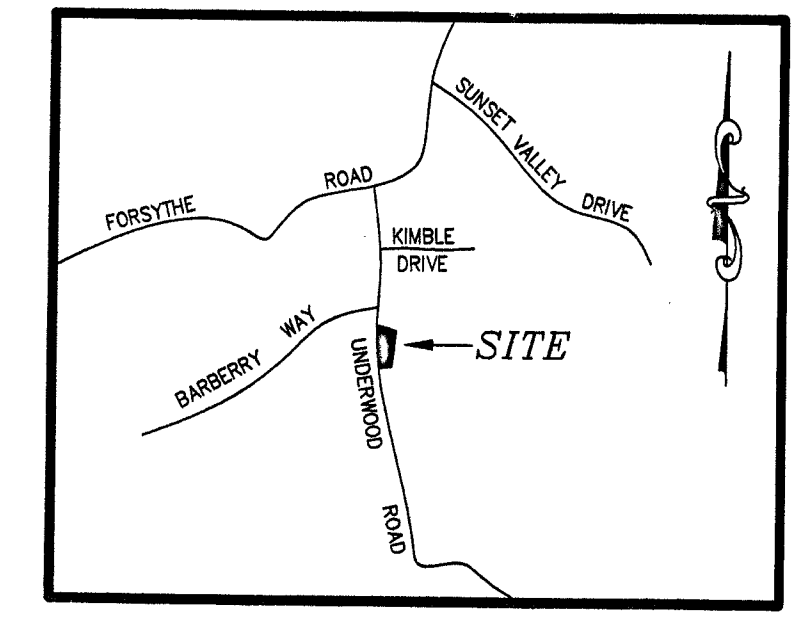
E 1316200
N 60600

PROPERTY OF
BOWLING GREEN
FARMS, INC.
PARCEL 1
TAX MAP 9, GRID 2
LIBER 8674, FOLIO 96

PROPERTY OF
KURT DANIEL AND KATHY MARIE HARDEN
PARCEL 134
TAX MAP 9, GRID 2
LIBER 8674, FOLIO 96

THE EDSON PROPERTY
PARCEL 26
TAX MAP 9, GRID 2
LIBER 9280, FOLIO 140
70291 SF. OR 1.6137 Ac.±

PROPERTY OF
ROGER VOLRATH
PARCEL 27
TAX MAP 9, GRID 2
LIBER 1095, FOLIO 395



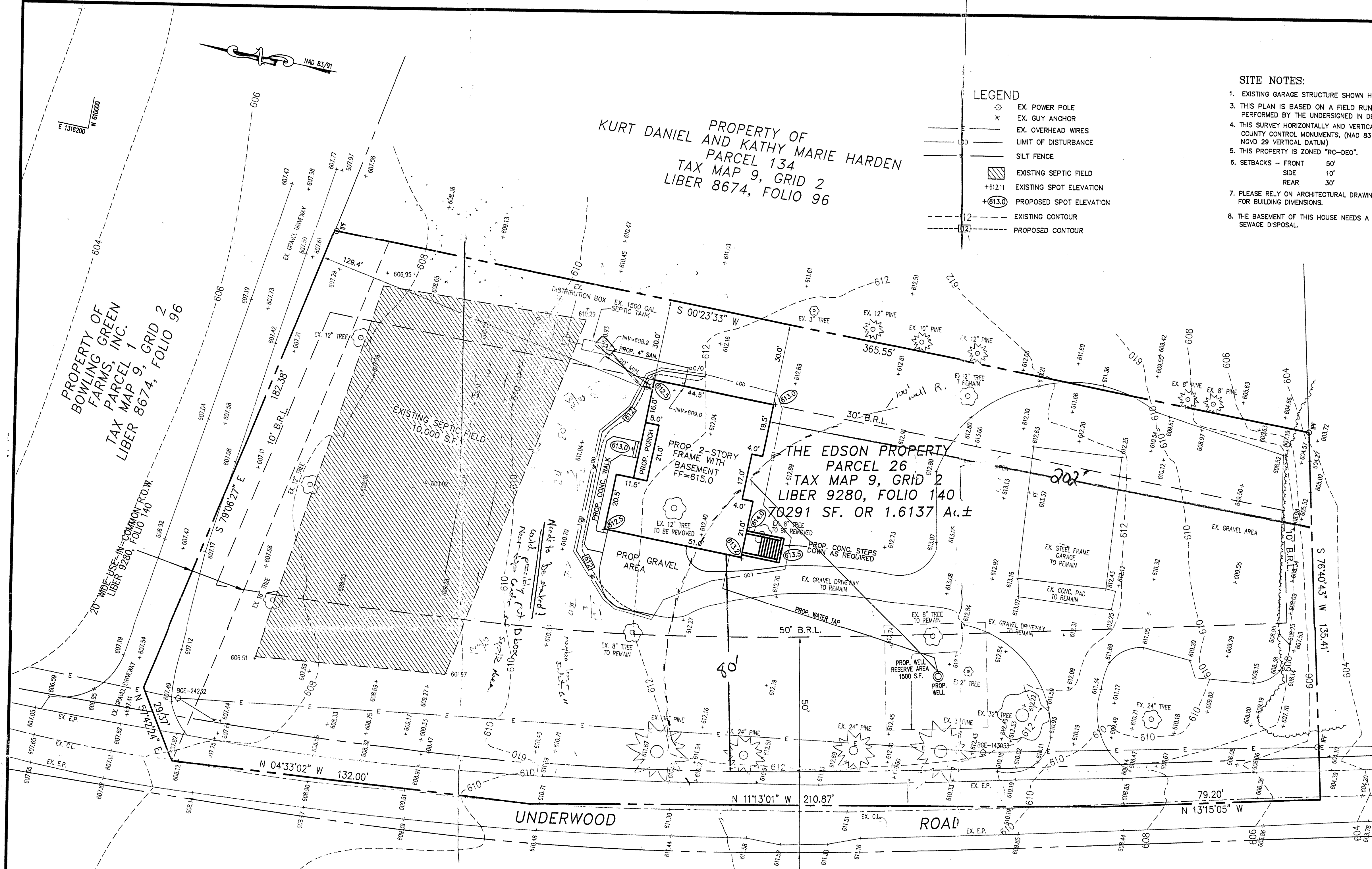
VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- EX. POWER POLE
- EX. GUY ANCHOR
- EX. OVERHEAD WIRES
- LIMIT OF DISTURBANCE
- SILT FENCE
- EXISTING SEPTIC FIELD
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR

SITE NOTES:

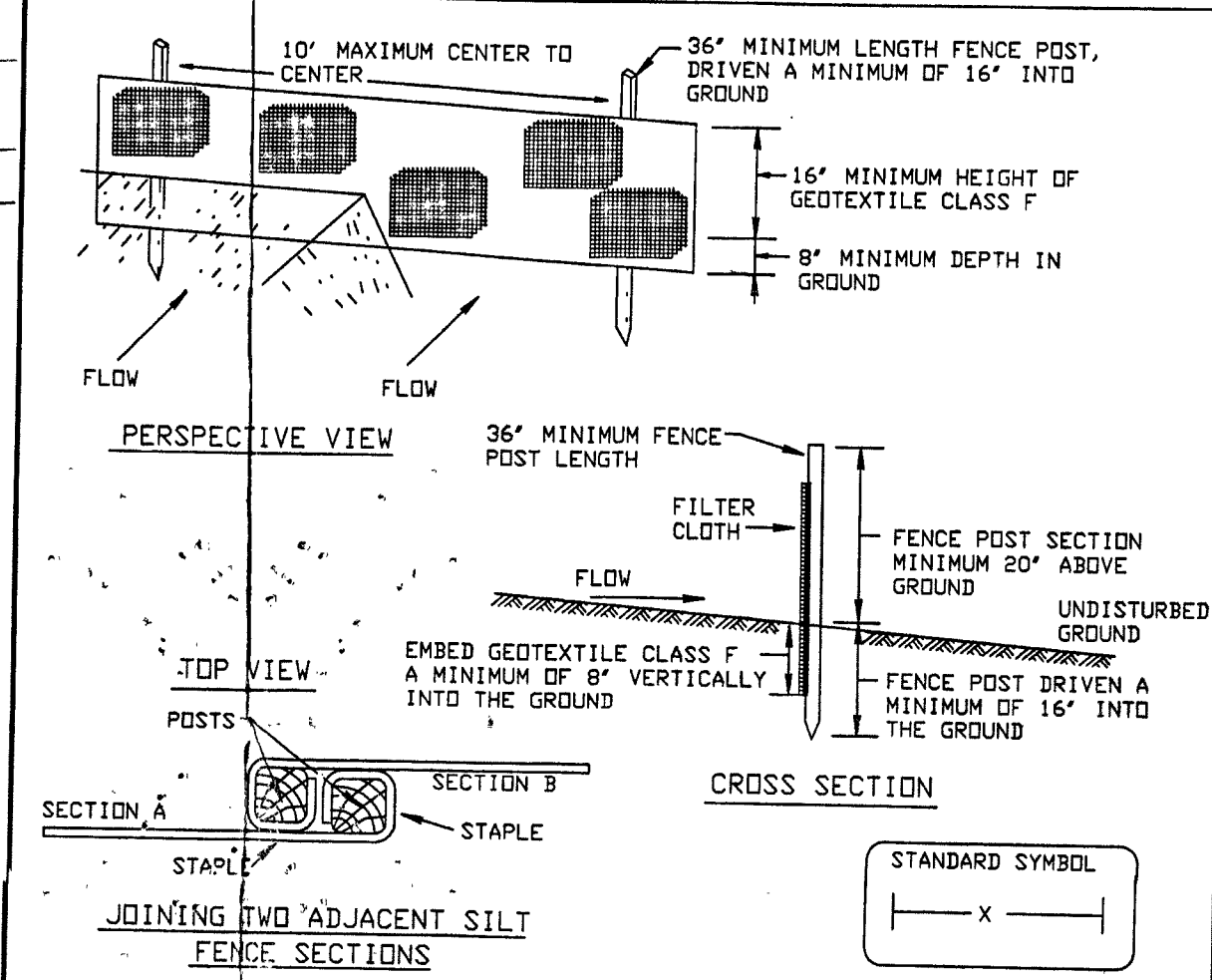
- EXISTING GARAGE STRUCTURE SHOWN HERON IS TO REMAIN.
- THIS PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY THE UNDERSIGNED IN DECEMBER OF 2005.
- THIS SURVEY HORIZONTALLY AND VERTICALLY IS TIED TO HOWARD COUNTY CONTROL MONUMENTS, (NAD 83 HORIZONTAL AND NVD 28 VERTICAL DATUM)
- THIS PROPERTY IS ZONED "RC-DEO".
- SETBACKS - FRONT 50' SIDE 10' REAR 30'
- PLEASE RELY ON ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
- THE BASEMENT OF THIS HOUSE NEEDS A GRINDER PUMP FOR SEWAGE DISPOSAL.



MSS-UTILITY NOTE:

- CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING. (800) 257 - 7777.

DETAIL 22 - SILT FENCE



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1 or 1 1/2 section weighting not less than 1.00 pound per linear foot.
- Geotextile 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 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded 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:

- Preferred: Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding heron or disk into upper three inches of soil. At time of seeding apply 400 lbs/acre 30-10-10 ureaform fertilizer (9 lbs/1000 sq. ft.)
- Acceptable: Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/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-April 30, and August 1-October 15, seed with 90 lbs/acre (14 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 21-July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (0.3 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 - February 28 protect site by: Option 1 - Two 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 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unratted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2/8 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 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 areas likely to be re-disturbed where a short term vegetative cover is needed.

Seeded Preparation: - Loosen upper three inches of soil by raking, disking or other acceptable means before seeding if not previously loosened.

Soil Amendments: - Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: - For periods March 1- April 30 and from August 15- October 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq. ft.). For the period May 1-August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16- February 28, site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unratted 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 slope 8ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

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 (410-313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7 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. Sod, temporary seeding, and mulching (sec. G). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

SEDIMENT CONTROL NOTES CONTINUED

- 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	4,990 SF. OR 0.11 Acres	= 1.6137 Acres
Area to be seeded or paved		= 0.07± Acres
Area to be vegetatively stabilized		= 0.04± Acres
Total cut		= 770± Cu. Yards
Total fill		= 100± Cu. Yards

 Offsite waste/borrow area location: NEXT DOOR AT BOWLING GREEN FARM
Total length of silt fence: 131 Feet
- 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.
- 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.

Approved by [Signature] Howard County Department of Inspections, Licenses and Permits 3/30/06

THE EDSON PROPERTY
PARCEL 26
TAX MAP 9, GRID 2
LIBER 9280, FOLIO 140
THIRD ASSESSMENT DISTRICT
HOWARD COUNTY, MARYLAND

PLAN PREPARED BY:
NJR & ASSOCIATES
Land Surveying and Planning
1833 MONTVEDDO ROAD
PESSEYVILLE, MARYLAND 20794
TEL: (410) 789-5523
FAX: (410) 789-5523

REVISIONS

NO.	DATE	DESCRIPTION

GRAPHIC SCALE 1"=20'

DATE: DEC. 19, 2005
JOB NUMBER: 2585
FILE NUMBER: 2585DWG
PLOTTED: FEB. 17, 2006
DRAWN BY: NJR

SITE PLAN

SHEET 1 OF 1

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

A 513203-K

DISTRICT _____

DATE _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXXX~~ 410-313-2640

DATE SYSTEM APPROVED _____

INSPECTOR _____

INDEXED

RPS # 03-2978e1

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PROPERTY OWNER John Williams

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