

LAYOUT 12/19/06 INSP 4 \_\_\_\_\_  
INSP 2 12/20/06 INSP 5 \_\_\_\_\_  
INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE: 12/18/06

# PERMIT

P 525689

APPROVAL DATE: 12/20/06

A 522951

TAX ID # 05-343216

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

K & K excavating IS PERMITTED TO INSTALL  ALTER

ADDRESS: PO box 84 Lisbon PHONE NUMBER: 410 442 1336

SUBDIVISION: FERBER PROPERTY LOT NUMBER: \_\_\_\_\_

ADDRESS: 5005 GREEN BRIDGE ROAD PROPERTY OWNER: KEN FERBER

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 217

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	
NOTES:	Install trenches on south side first. Basement service by gravity.

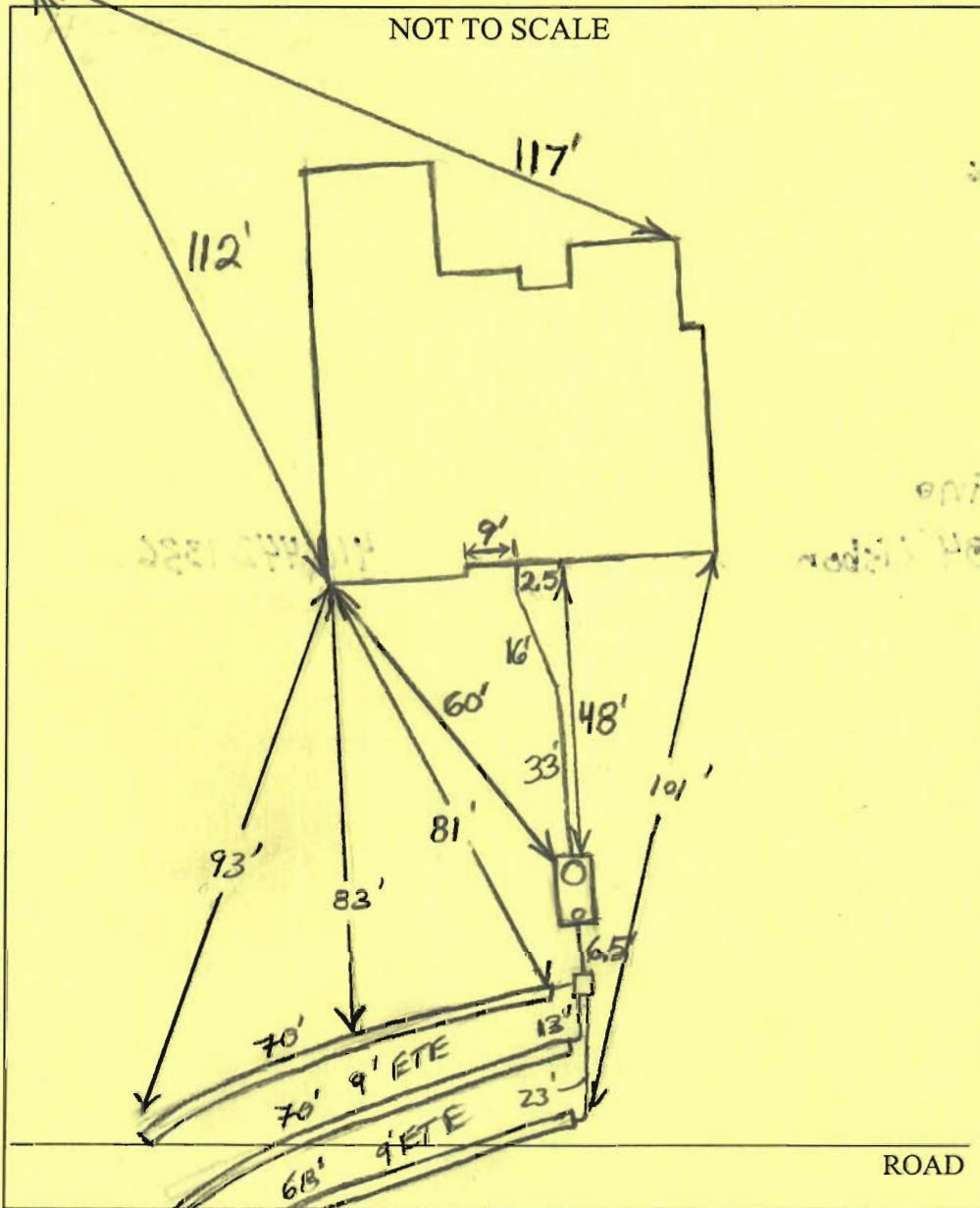
PLANS APPROVED: Sara Fegel DATE: 8/21/2006

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 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

H0-95-0396

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		208'
ABSORPTION AREA		624 + SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		NO

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5-2'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
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

12/19/06 Place the distribution box near the location on the B.P. plan and install three 72' trenches

INSTALLATION

behind the proposed pool location. (PB)

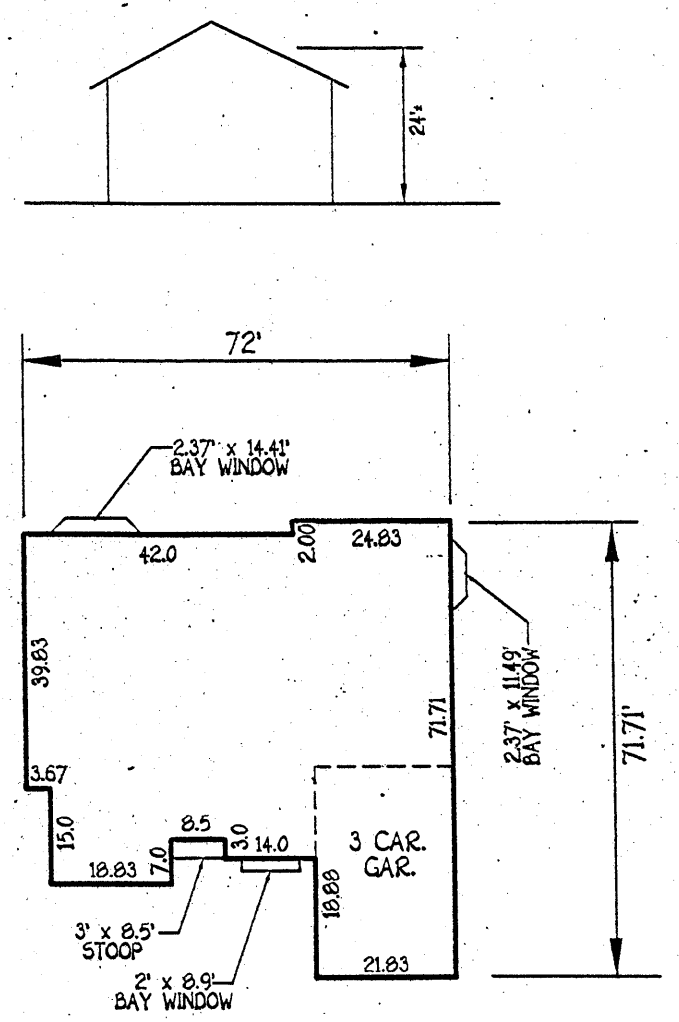
12/20/06 System Complete. Contractor not present @ time of final insp. Was concerned about fall on feed line from D box to middle trench; was almost level in some sections... Need levelers in Dbox next time! OK to cover (KW)

FINAL INSPECTOR

*[Signature]*

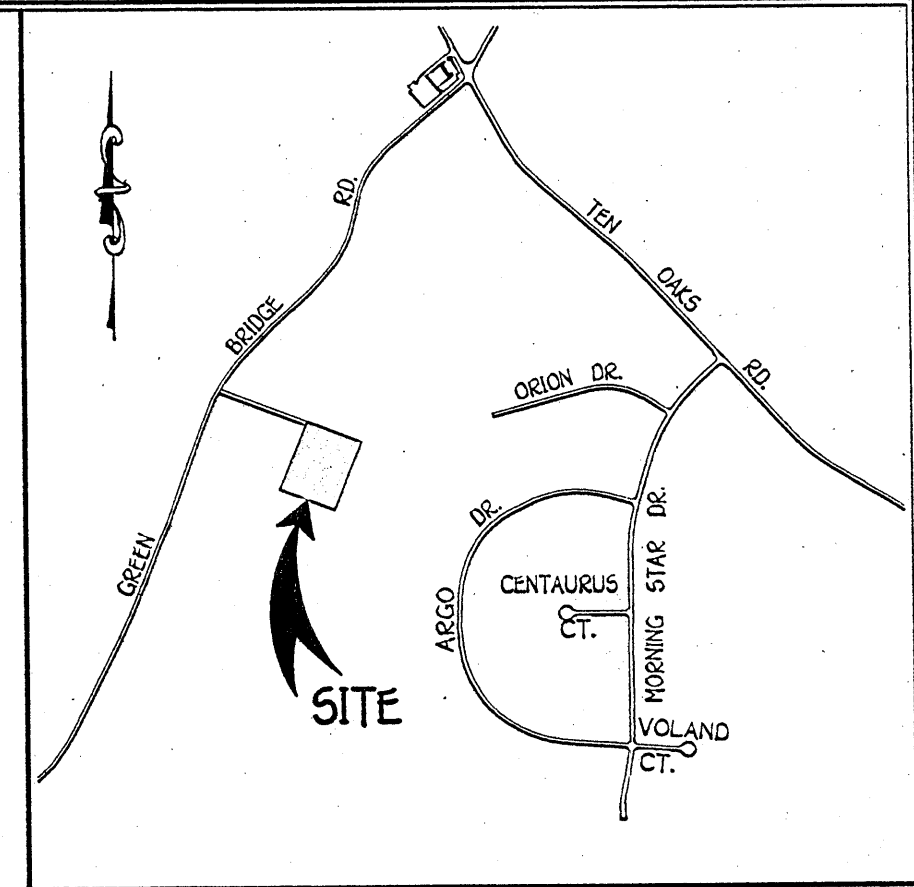
DATE OF APPROVAL

12/20/06



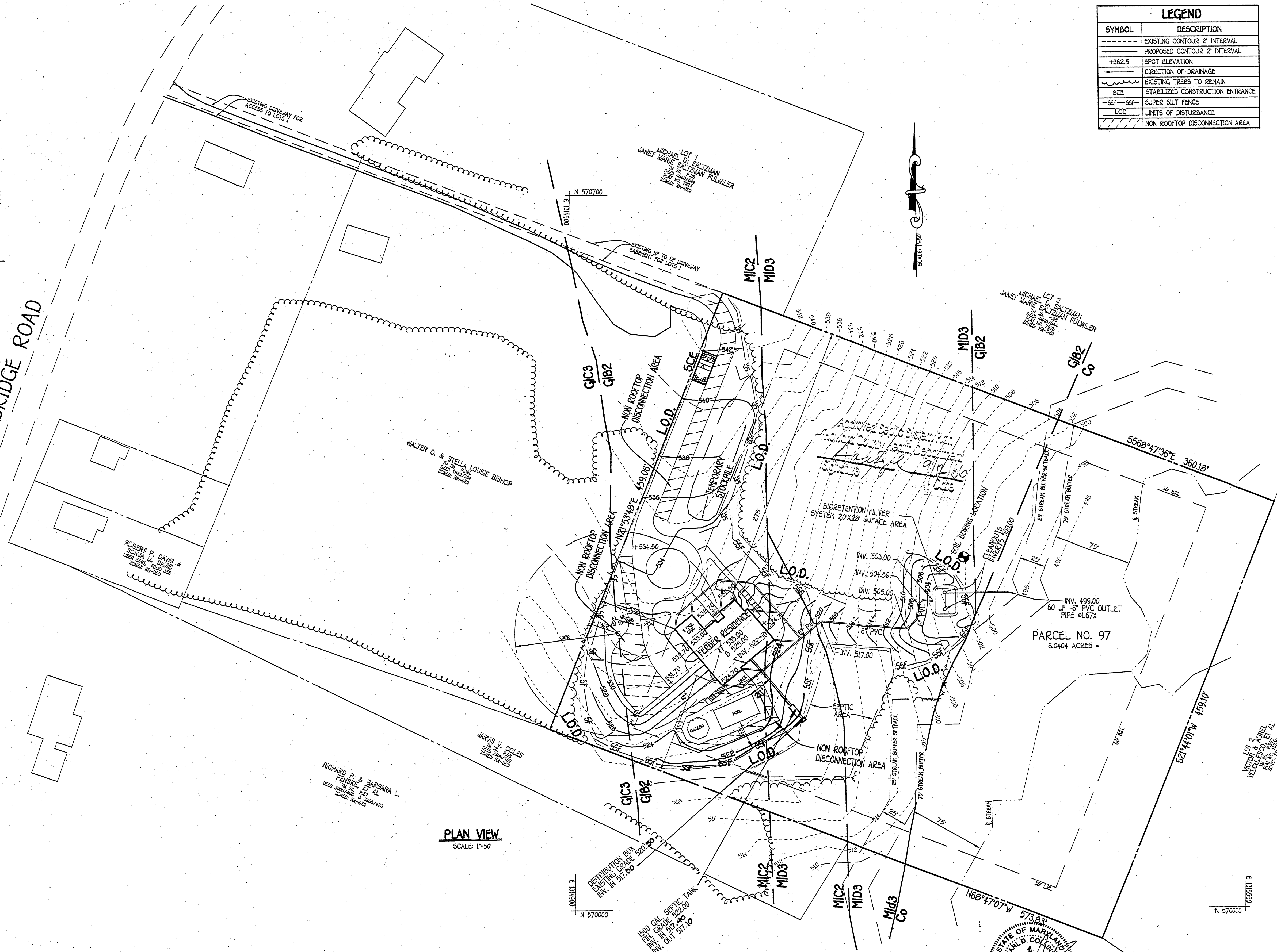
**FERBER RESIDENCE**  
SCALE: 1" = 30'

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
+362.5	SPOT ELEVATION
---	DIRECTION OF DRAINAGE
---	EXISTING TREES TO REMAIN
---	SCE STABILIZED CONSTRUCTION ENTRANCE
---	SEF SUPER SILT FENCE
---	LOD LIMITS OF DISTURBANCE
---	NON ROOFTOP DISCONNECTION AREA



**VICINITY MAP**  
SCALE: 1" = 1,200'

**GREENBRIDGE ROAD**



**PLAN VIEW**  
SCALE: 1" = 50'

- GENERAL NOTES**
- SUBJECT PROPERTY ZONED: RR-DEO
  - TOTAL AREA OF PROPERTY: 6.0404 ACRES
  - TOTAL AREA OF DISTURBANCE: 1.94 AC.
  - LENGTH OF TRENCHES TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  - CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - EXISTING TOPOGRAPHY SHOWN WAS FIELD RUN BY FISHER, COLLINS AND CARTER, INC. IN OCTOBER OF 2005.
  - THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO 95-0396 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
410.441.2225

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED: *[Signature]* 8/14/06  
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*[Signature]* 8/14/06  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE 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]* 8-14-06  
SIGNATURE DATE

**ENGINEER'S CERTIFICATE**  
"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*[Signature]* 8-14-06  
SIGNATURE DATE

**OWNER/BUILDER**  
KENNETH AND DELORES FERBER  
926 RITA DRIVE  
ODENTON, MARYLAND 21113

**GP-06-100**  
SITE DEVELOPMENT,  
SEDIMENT/EROSION CONTROL PLAN  
FERBER PROPERTY  
PARCEL NO. 97  
TAX MAP NO: 28 ZONED: RR-DEO  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUGUST, 2006  
SHEET 1 OF 2







**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 OR DISTURBANCE.
- 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 CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - CALENDAR DAYS FOR ALL PERMITTED SEDIMENT CONTROL STRUCTURES.
  - DAYS FOR PROPOSED SLOPES AND ALL SLOPES STEEPER THAN 3:1 TO 10:1 DAYS AS ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPPING DEVICES MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEM 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. 21.501.05C), TEMPORARY SEEDING (SEC. 21.501.05D), AND MULCHING (SEC. 21.501.05E). 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- NOTE:
  - TOTAL AREA OF SITE: 6004 ACRES
  - AREA DISTURBED: 1340 ACRES
  - AREA TO BE COVERED OR PAVED: 0.354 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 12376 ACRES
  - TOTAL CUT: 45 CUBIC YARDS
  - TOTAL FILL: 325 CUBIC YARDS
- OFFSITE WASTE/DEBRIS AREA LOCATION TO BE DETERMINED.
- ANY SEDIMENT CONTROL PRACTICES WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS, THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR SHALL BE NOTIFIED PRIOR TO THE START OF ANY CONSTRUCTION OR DISTURBANCE.
- APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMANENT AND TEMPORARY SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER AGENCIES OR GRADING INSPECTION AGENCIES MAY NOT BE AUTHORIZED UNTIL THE AGENCY APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRUNCUS 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.

- CONSTRUCTION SCHEDULE**
- OBTAIN GRADING PERMIT: 2 WEEKS
  - INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN: 1 DAY
  - CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO FINISH: 1 DAY
  - INSTALL TEMPORARY SEEDING: 1 DAY
  - CONSTRUCT BUILDINGS: 3 MONTHS
  - FINAL GRADE SITE, INSTALL SHM DEVICES, PERMANENT SEEDING AND LANDSCAPE: 3 DAYS
  - REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR: 2 DAYS

**TEMPORARY SEEDING NOTES**  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REINTEGRATED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:**  
 APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER OR 150 LBS./1000 SQ. FT. FERTILIZER.

**SEEDING:**  
 FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1/2 BUSHEL PER ANNUAL ONE (1) LB. LBS./ACRE OF SEEDING HARROW OR DISC. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 3 LBS./ACRE OF SEEDING HARROW OR DISC. FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.

**MULCHING:**  
 APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 40 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 250 GALLONS PER ACRE OF GALLIUM SOFTY OF ENHANCED ASPHALT ON FLAT AREAS ON SLOPES 6 FEET OR HIGHER. USE 340 GALLONS PER ACRE OF GALLIUM SOFTY FOR ANCHORING. REFER TO THE 1996 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**  
 ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

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**MAINTENANCE:**  
 INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPAIRMENTS AND RESEEDINGS.  
 \* FOR PUBLIC PONES SUBSTITUTE CHEMUNG GROWNWITH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

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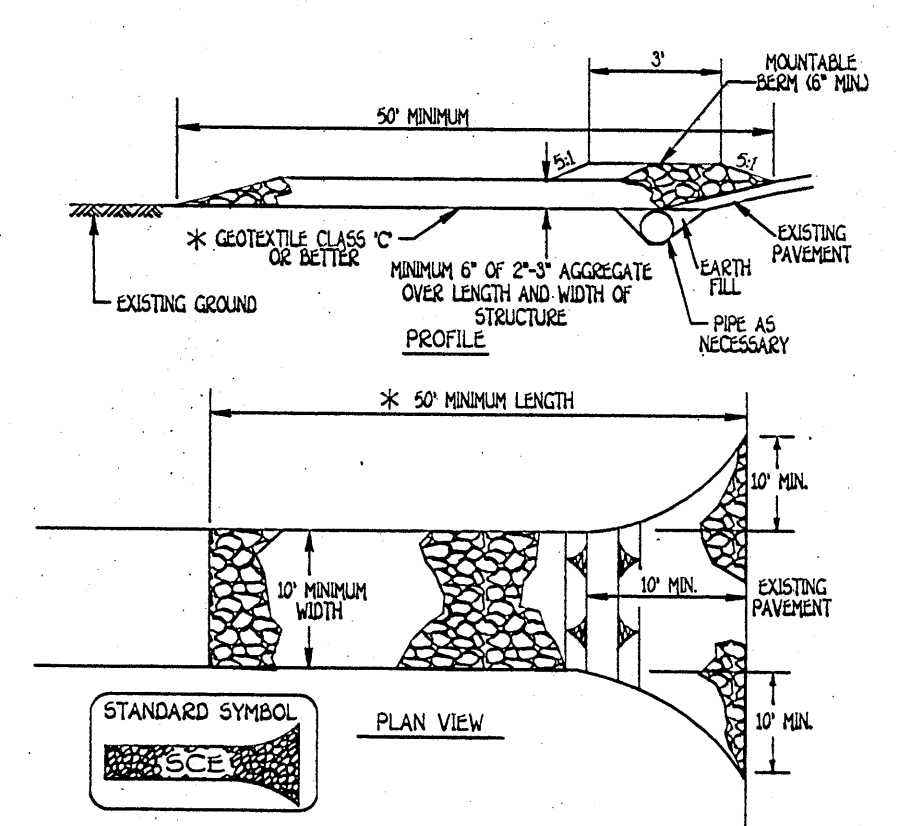
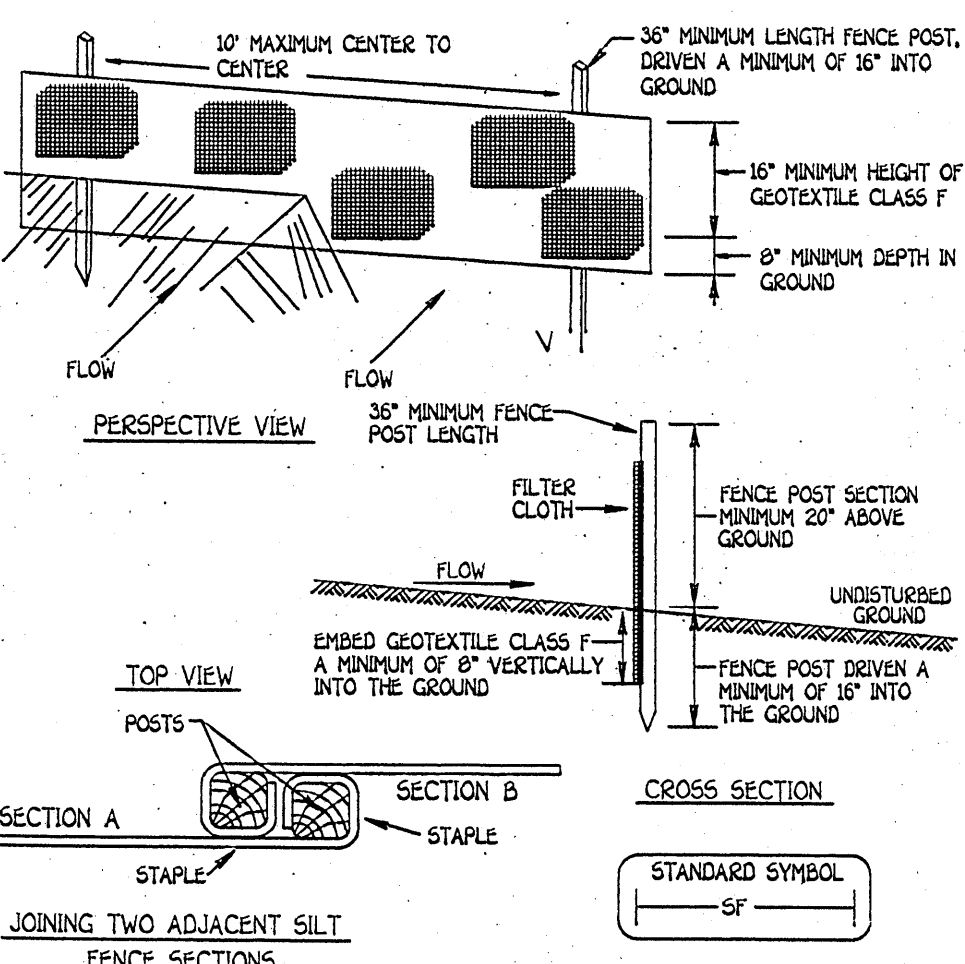
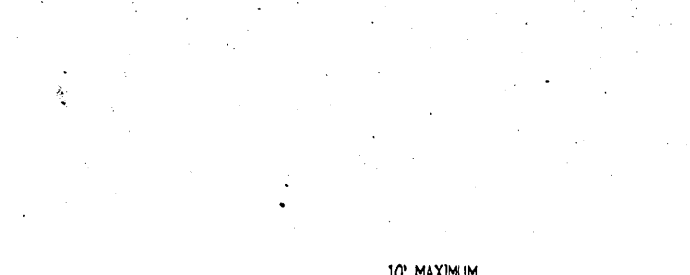
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**TYPICAL DRIVEWAY SECTION FOR NON-ROOFTOP DISCONNECT CREDIT**

NOT TO SCALE



**Construction Specifications**

- Fence posts shall be a minimum of 30' long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) or, 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 100 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: 0.5 gal ft / 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.

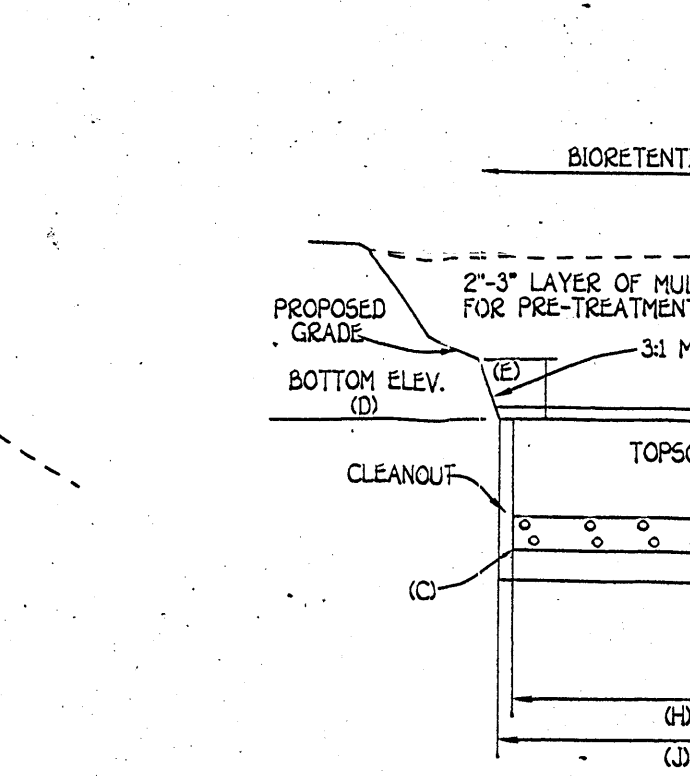
**Silt Fence Design Criteria**

Slope Steepness	(Maximum) Filter Length	(Maximum) Silt Fence Spacing
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

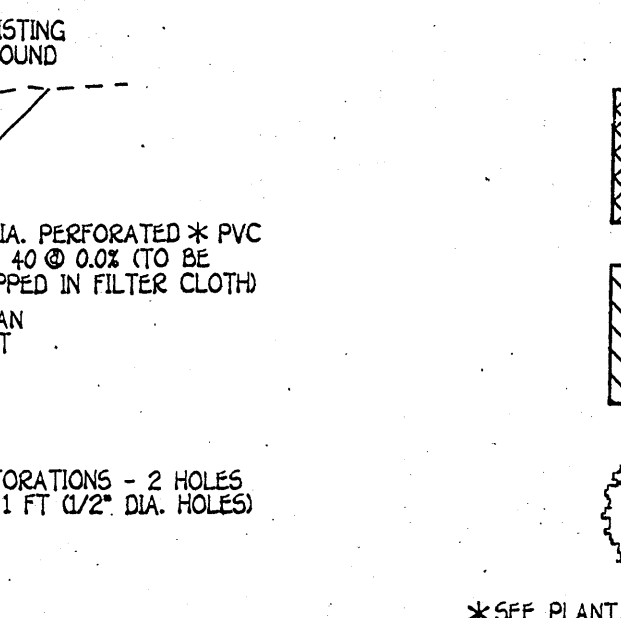
**SUPER SILT FENCE**

NOT TO SCALE

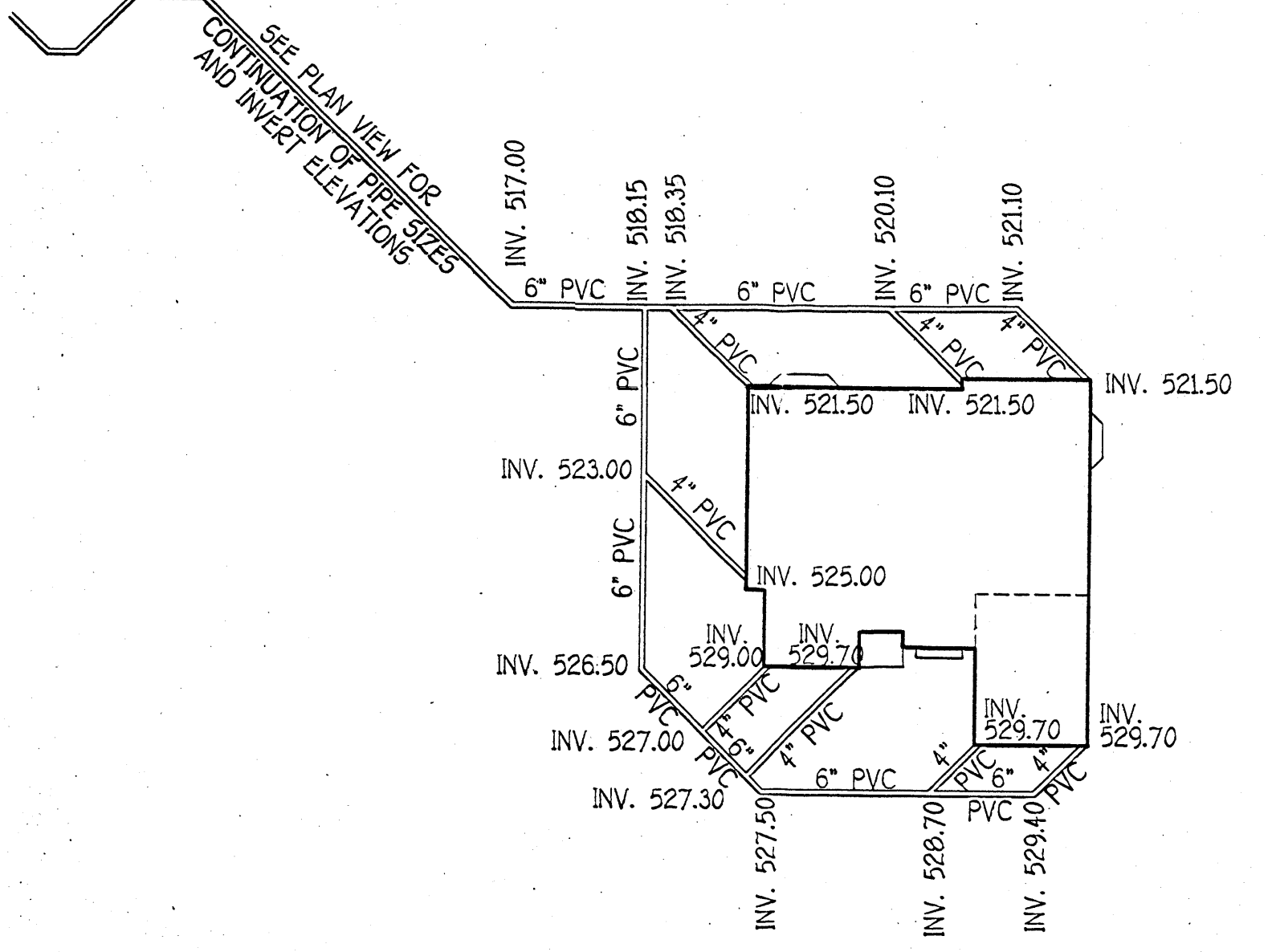


**SILT FENCE**

NOT TO SCALE

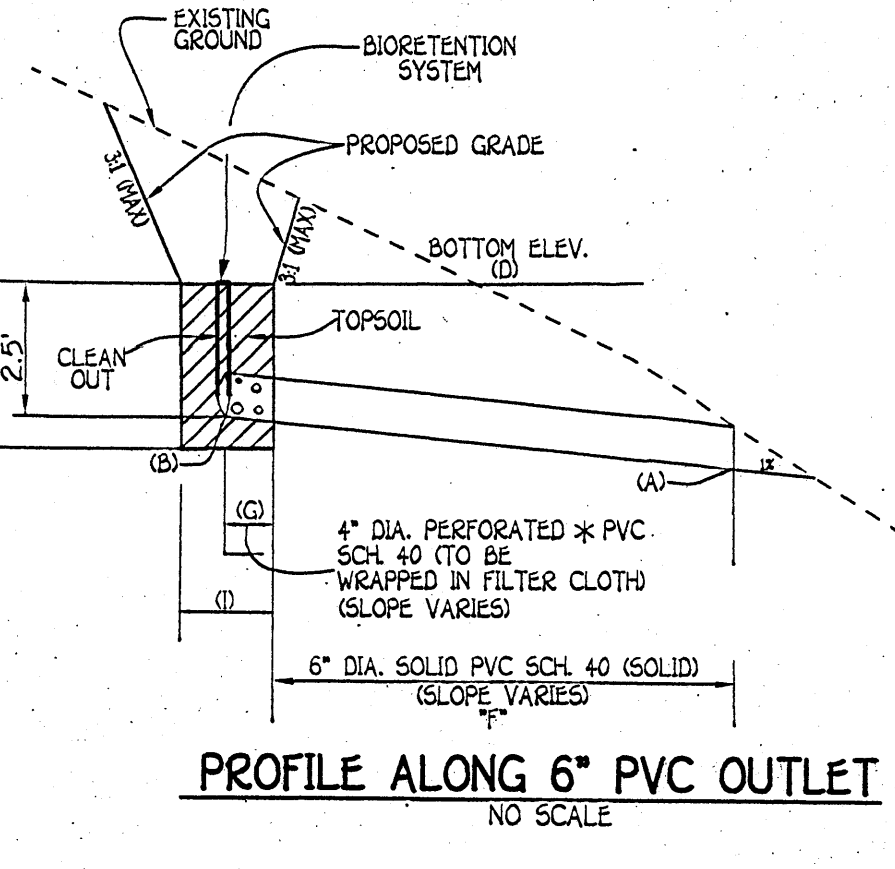


NOTE: SEE PLANT MATERIAL CHARTS FOR QUANTITIES AND SPACING. PLANT MATERIAL MUST COVER AT LEAST 50% OF THE SURFACE AREA OF THE RAINGARDEN.



**ROOF TOP DISCONNECTS AND ROOF DRAIN INVERT ELEVATIONS**

SCALE: 1" = 30'



**BIORETENTION FILTER DATA**

BIORETENTION FILTER	A	B	C	D	E	F	G	H	I	J
1	499.00	500.00	500.00	503.00	503.50	60'	10'	10'	20'	20'

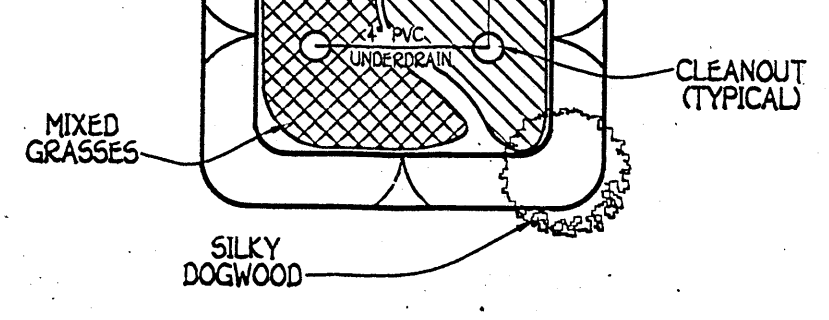
**BIORETENTION FILTER PLANT MATERIAL**

QUANTITY	NAME	MAXIMUM SPACING (FT)
45	MIXED PERENNIALS	1 FT.
45	MIXED GRASSES	1 FT.
2	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

**PRIVATE BIORETENTION FILTER OPERATION & MAINTENANCE SCHEDULE**

- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYERS IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTIVE AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

**BIORETENTION FILTER PLANTING DETAIL**



**DEVELOPER'S CERTIFICATE**

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*Kenneth A. Gal* 8-14-06  
 SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATE**

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*John D. Collins* 8-14-06  
 SIGNATURE DATE

**OWNER/BUILDER**

KENNETH AND DELORIS FERBER  
 926 RITA DRIVE  
 ODENTON, MARYLAND 21113

*Kenneth and Deloris Ferber* 8-14-06  
 SIGNATURE DATE

**SEDIMENT EROSION CONTROL NOTES & DETAILS**

**FERBER PROPERTY**  
 PARCEL NO. 97  
 TAX MAP NO. 28 ZONED: RR-DEO  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUGUST, 2006  
 SHEET 2 OF 2

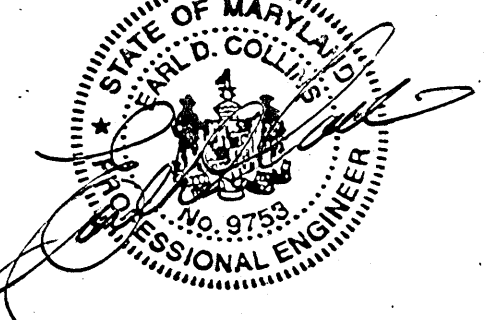
**FISHER, COLLINS & CARTER, INC.**  
 ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL Pkwy  
 GAITHERSBURG, MD 20878  
 410-481-2200

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

*John D. Collins* 8/14/06  
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Jim M. Jones* 8/14/06  
 M.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE



GP-06-100