

RECEIPT DATE: 12/18/12

P 544454-A

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

# PERMIT

A \_\_\_\_\_

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

PROPERTY OWNER: Lawrence and Rebekah Granger

OWNER'S  
ADDRESS: 13428 Fairland Park Drive, Silver Spring, MD 20904 PHONE: \_\_\_\_\_

ADDRESS: 8115 Holly Manor Way TAX ACC'T #: 05-452600

SUBDIVISION: Holly House Meadows LOT: 3

SEPTIC TANK CAPACITY (GALLONS): TBD

PUMP CHAMBER CAPACITY (GALLONS): TBD

NUMBER OF BEDROOMS: TBD APPLICATION RATE: TBD

SQUARE FOOTAGE OF HOUSE: TBD

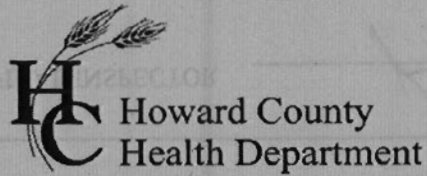
LINEAR FEET OF TRENCH REQUIRED: TBD

|           |   |
|-----------|---|
| TRENCHES: | TO BE DETERMINED ON APPROVED SUPPLEMENTAL PLAN  |
| LOCATION: | TO BE DETERMINED ON APPROVED SUPPLEMENTAL PLAN  |
| NOTES:    | A SUPPLEMENTAL PLAN PROVIDING SYSTEM DETAILS IS REQUIRED PRIOR TO HEALTH APPROVAL OF BUILDING PERMIT, PLOT PLAN, AND WALL CHECK. AN APPROVED WALL CHECK IS REQUIRED PRIOR TO PRE-CONSTRUCTION INSPECTION. THE OSDS PERMITTED HEREIN IS NOT SUBJECT TO REVISIONS TO COMAR 26.04.02 EFFECTIVE 1/1/2013 ON THE CONDITION THAT FINAL HEALTH APPROVAL OF THE INSTALLATION IS GRANTED PRIOR TO PERMIT EXPIRATION. |

ISSUED BY: JEFF WILLIAMS ISSUE DATE: 12/18/12 EXPIRATION DATE: 12/18/13

- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- 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
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**NEITHER THE HOWARD COUNTY COUNCIL OR 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.**



Bureau of Environmental Health  
 7178 Gateway Drive Columbia, MD 21046  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 12/18/12

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 544454-A

INSTALLATION APPROVAL DATE: 9/24/13

**PERMIT  
CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 8115 Holly Manor Way

SUBDIVISION: Holly House Meadows

LOT: 3

TAX ID: 1405452600

CONTRACTOR: J. Maurice Carlisle

EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_

PHONE: 301-428-8599

PROPERTY OWNER: Granger

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 13428 Fairland Park Drive, Silver Spring MD 20904

PHONE: \_\_\_\_\_

SEPTIC TANK SIZE (GALLONS): 2000

PUMP CHAMBER CAPACITY (GALLONS): N/A

PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 4

HOUSE SQ. FT. 5021

APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

|           |   |   |
|-----------|---|---|
| TRENCHES: | LINEAR FEET REQUIRED: <u>142'</u>   | INLET DEPTH: <u>4' 5'</u>                 |
|           | TRENCH WIDTH: <u>2'</u>   | MAXIMUM BOTTOM DEPTH: <u>2' 8'</u>        |
|           | MINIMUM SPACE BETWEEN TRENCHES: <u>8'</u>   | EFFECTIVE AREA BEGINNING DEPTH: <u>5'</u> |
| LOCATION: | <b>TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.</b>   |   |
| NOTES:    | Set septic tank per plan. Set d-box per plan. Install 2 x 71' trenches on contour. Layout inspection required prior to installation.<br><u>2x70</u> |   |

ISSUED BY: HS/RB

ISSUE DATE: 9/6/2013

EXPIRATION DATE: 12/18/2013

**NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**

**NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING**

**NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.**

**NOTE: WATERTIGHT SEPTIC TANKS REQUIRED**

**NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL**

**NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS**

**NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**

**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 TO SCHEDULE INSPECTIONS.**

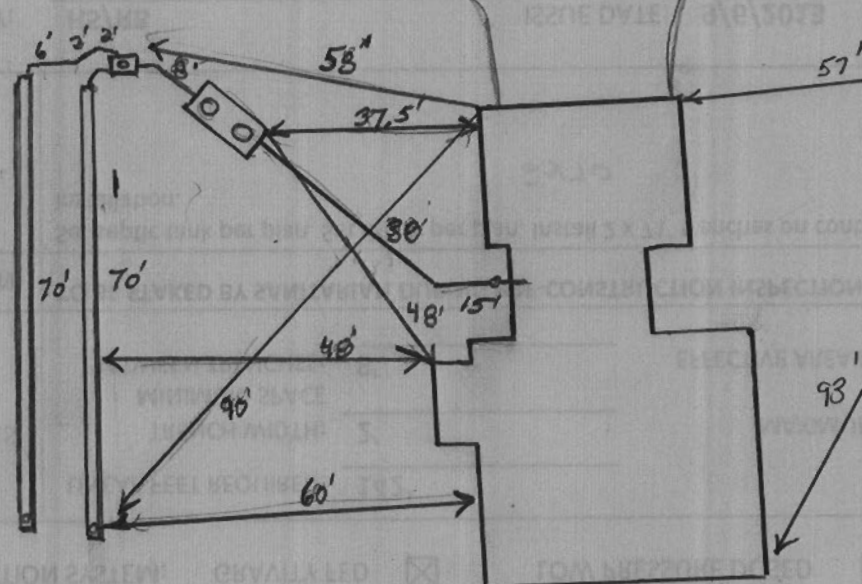
NOT TO SCALE

**TRENCH/DRAINFIELD DATA**

| WIDTH                   | INLET | BOTTOM  |
|-------------------------|-------|---------|
| 2'                      | 5'    | 8'      |
| NUMBER OF TRENCHES      |       | 2       |
| TOTAL LENGTH            |       | 140     |
| ABSORPTION AREA         |       | 280'±SW |
| DISTRIBUTION BOX LEVEL  |       | Level's |
| DISTRIBUTION BOX BAFFLE |       | Yes     |
| DISTRIBUTION BOX PORT   |       | Yes     |

**SEPTIC TANK DATA**

|                        |            |
|------------------------|------------|
| SEPTIC TANK 1 LEVEL    | Yes        |
| MANUFACTURER           | Babylon    |
| CAPACITY               | 2000 GAL   |
| SEAM LOC               | Top        |
| TANK LID DEPTH         | 3'         |
| BAFFLES                | Yes        |
| BAFFLE FILTER          | -          |
| MANHOLE LOC            | Front/Rear |
| 6" PORT LOC            | None       |
| WATERTIGHT TEST        | -          |
| SLOTTED                | Yes        |
| DATE ON LID            | 8-10-13    |
| PUMP/SEPTIC TANK LEVEL | N/A        |
| MANUFACTURER           |            |
| CAPACITY               | GAL        |
| SEAM LOC               |            |
| TANK LID DEPTH         |            |
| BAFFLES                |            |
| BAFFLE FILTER          |            |
| MANHOLE LOC            |            |
| 6" PORT LOC            |            |
| WATERTIGHT TEST        |            |
| SLOTTED                |            |
| DATE ON LID            |            |



ROAD NAME

**PRE-CONSTRUCTION:**

9/16/13 Set S.T. per approved BP plan. Set D box top middle part of SRA. Run 2x70' trenches on contour back across top of septic area. Call for inspection. (KW)

**INSTALLATION:**

9/24/13 Everything left open. Told contractor that inspections were not called in while working. Next day parts of system (including trenches) will be dug up. D box leveled. Stone blocks seen. OK. System looks good. OK to backfill

FINAL INSPECTOR

*[Signature]*

DATE OF APPROVAL

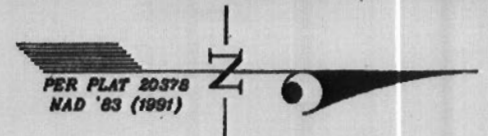
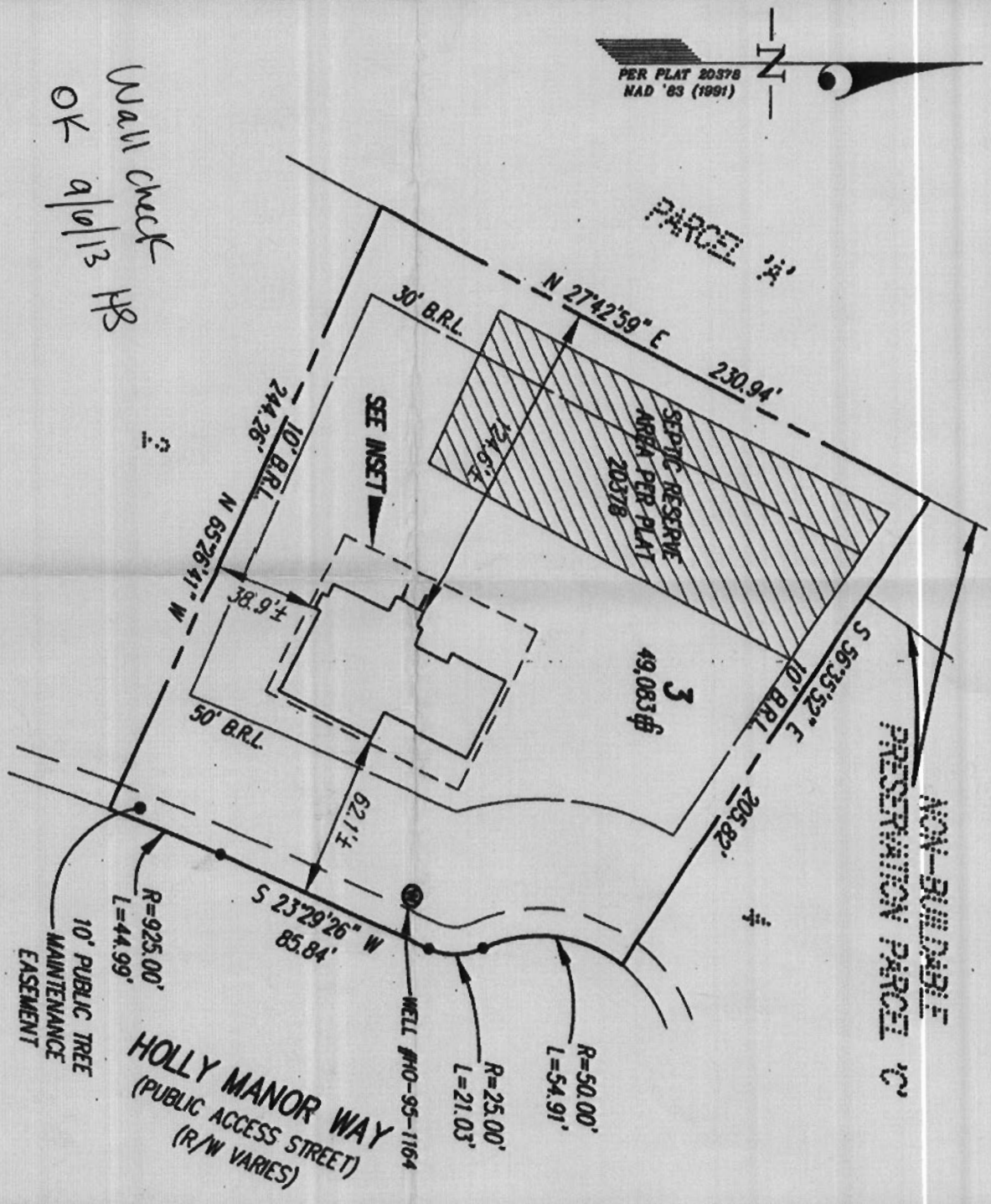
9/24/13



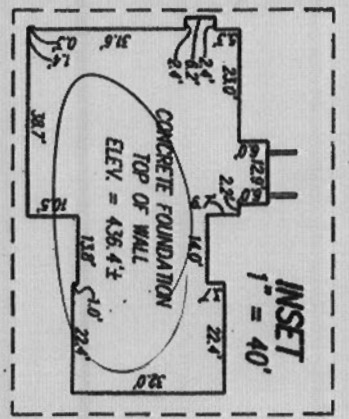




THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.



Wall check  
OK 9/10/13 HS



B.R.L.'s SHOWN HEREON PER PLAT 20378.  
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ± 0.1 FOOT.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3000 NATIONAL DRIVE - SUITE 200 - BERTONSHILLE OFFICE PARK  
BERTONSHILLE, MARYLAND 20888  
TEL: 301-421-4024 BALT. 410-680-1820 DC/VA 301-999-2524 FAX 301-421-4186

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE C (AREA OF ANNUAL FLOODING) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 240044 0041 B, REVERSED DECEMBER 4, 1996.

|                            |          |
|----------------------------|----------|
| REFERENCE : PLAT No.       | 20378    |
| DATE OF LATEST FIELD WORK: | 7-22-13  |
| DRAWN BY :                 | MP       |
| CHECKED BY :               | TS       |
| SCALE :                    | 1" = 60' |
| GLW FILE No.               | 12058    |

**SURVEYOR'S CERTIFICATE**  
THIS IS TO CERTIFY TO:  
MITCHELL & BEST,

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.



For Gutschick, Little and Weber, P.A.:  
Thomas C. O'Connor, Jr.,  
Professional Land Surveyor, No. 10854 (EXP. DATE: 07/03/2014)

WALLCHECK (SPECIAL PURPOSE SURVEY)  
"HOLLY HOUSE MEADOWS"  
LOT 3  
8115 HOLLY MANOR WAY  
HOWARD COUNTY, MARYLAND

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMPRESSED SEAL OF THE ABOVE SURVEYOR.

AUG 27 2013

### SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (402-35-0253).
- 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 THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - A 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2001 HANDBOOK OF STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (Sec. B-4-5), TEMPORARY SEEDINGS (Sec. B-4-4) AND MULCHING (Sec. B-4-3). 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.
6. SITE ANALYSIS:
 

|                                    |                |
|------------------------------------|----------------|
| TOTAL AREA OF SITE                 | : 1.031 ac.    |
| AREA DISTURBED                     | : 0.804 ac.    |
| AREA TO BE ROOFED OR PAVED         | : 0.123 ac.    |
| AREA TO BE VEGETATIVELY STABILIZED | : 0.063 ac.    |
| TOTAL CUT                          | : 6402 cu. yd. |
| TOTAL FILL                         | : 6402 cu. yd. |
| OFF-SITE WASTEWATER AREA LOCATION  | : N/A          |
- ANY SEDIMENT CONTROL PRACTICE WHICH IS REQUIRED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE DISTURBED 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 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.
- ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
- A PROJECT IS TO BE SEQUENCED SO THAT THE GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MINIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY, UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.

### B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

**DEFINITION**  
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

**PURPOSE**  
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS, FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

**CRITERIA**

- SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B1 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDINGS SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT FIT ON THE PLAN AND COMPLETED, THEN TABLE B1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
- FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
- WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

**TEMPORARY SEEDINGS SUMMARY**

| HARDNESS ZONE: 6b |                 | SEED MIXTURE: #9 (Tall Fescue, Kentucky Bluegrass) |                                       | FERTILIZER RATE (10-10-10) |                                     | LIME RATE                          |           |
|-------------------|-----------------|--|---------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| No.               | SPECIES         | APPLICATION RATE (lb./ac.)                         | SEEDING DATES                         | SEEDING DEPTHS (INCHES)    | (10-10-10)                          | (10-10-10)                         | LIME RATE |
| 1                 | ANNUAL RYEGRASS | 40 lb./ac.   | Mar. 1 to May 15<br>Aug. 1 to Oct. 15 | 0.5 INCHES                 | 436 lb./ac.<br>(10 lb./1,000 sq ft) | 2 tons/ac.<br>(90 lb./1,000 sq ft) |           |
| 2                 | PEARL MILLET    | 20 lb./ac.   | May 16 to July 31                     | 0.5 INCHES                 |                                     |                                    |           |

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS.

*John M. Heston* 5/13/13  
HOWARD S.C.D. DATE

### DEVELOPER'S/BUILDER'S CERTIFICATE

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR 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 MARYLAND 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 HCD."

*Robert Mahly* 5/13/13  
SIGNATURE OF DEVELOPER/BUILDER DATE

### 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 COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS."

*Chaf* 5-1-13  
DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE

**GLWGUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
BURTNSVILLE, MARYLAND 20888  
TEL: 301-421-4024 FAX: 301-421-4186

DES. MGT DRN. KLP CHK. CKG

### B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

**DEFINITION**  
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

**PURPOSE**  
TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

**CONDITIONS WHERE PRACTICE APPLIES**  
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

**CRITERIA**

- SEED MIXTURES
  - SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDINGS SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
  - ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 242 - CRITICAL AREA PLANTING.
  - FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
  - FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (80 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDINGS SUMMARY.
- TURFGRASS MIXTURES
  - AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
  - SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDINGS SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
    - KENTUCKY BLUEGRASS: FULL SUN MIXTURE FOR USE IN AREAS THAT RECEIVE INTERMEDIATE MANAGEMENT, IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 15 TO 20 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY HEIGHT.
      - KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTERMEDIATE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY HEIGHT.
      - TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIAN SHADE. RECOMMENDED MIXTURE INCLUDES CERTIFIED TALL FESCUE CULTIVARS 45 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
      - KENTUCKY BLUEGRASS/FESCUE SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTERMEDIATELY MANAGED TURF AREA, MIXTURE INCLUDES CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED TALL FESCUE AND GO TO 10 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

**NOTES**

- SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION AGRONOMY MEMO #71, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND"
- IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES
  - CENTRAL MD. MARCH 1 TO MAY 15, AUGUST 1 TO OCTOBER 15 (HARDNESS ZONE 6B)
  - SOUTHERN MD. EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 1 TO OCTOBER 15 (HARDNESS ZONES 7A, 7B)
- TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES. LEVEL AND RAISE THE AREA TO BE SEEDING. A PROPER SEEDING REMOVE STONES AND DEBRIS OVER 1/2 INCH IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
- IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SETTINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

### PERMANENT SEEDINGS SUMMARY

| HARDNESS ZONE: 6b |  | SEED MIXTURE: #9 (Tall Fescue, Kentucky Bluegrass) |                                      | FERTILIZER RATE (10-20-20) |                                  | LIME RATE         |           |
|-------------------|--|--|--------------------------------------|----------------------------|----------------------------------|-------------------|-----------|
| No.               | SPECIES  | APPLICATION RATE                                   | SEEDING DATES                        | SEEDING DEPTHS             | (10-20-20)                       | (10-20-20)        | LIME RATE |
| 9                 | Certified Tall Fescue blend (90% by weight), Fescue IV Penn 1901 & Rebel Exotic and Certified Kentucky Bluegrass blend (5% by weight), Courtyard, Raven & Yankee | 6-8 lb./1000 sq ft                                 | Mar. 1 to May 15, Aug. 15 to Oct. 15 | 1/4 - 1/2 INCH             | 1.0 lb./1000 sq ft (45 lb./acre) | 90 lb./1000 sq ft | 1000 s.f. |

\* Other cultivars listed as "proven" in the most current UMD TT-77 may also be used

B. 50D. TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. GENERAL SPECIFICATIONS

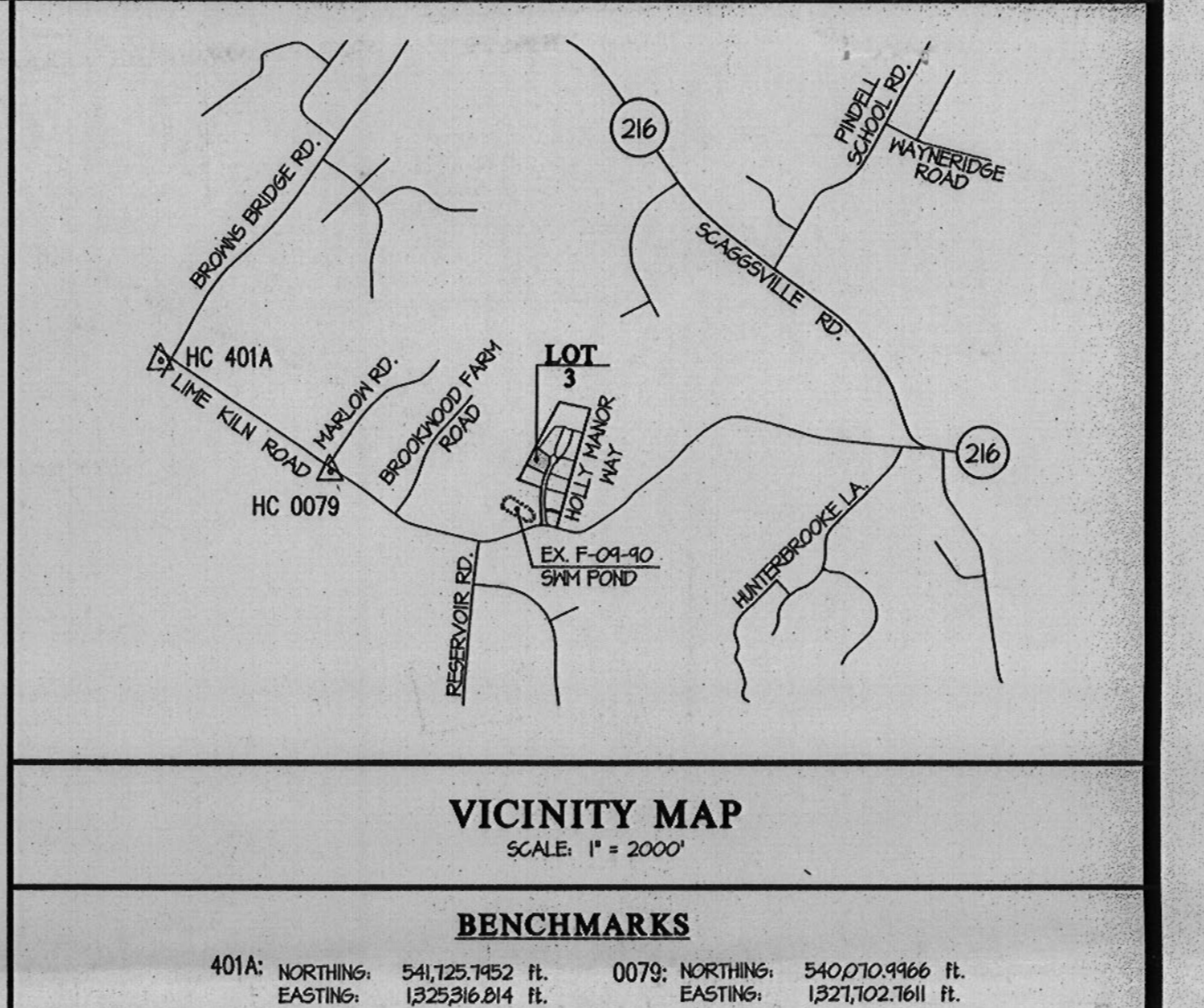
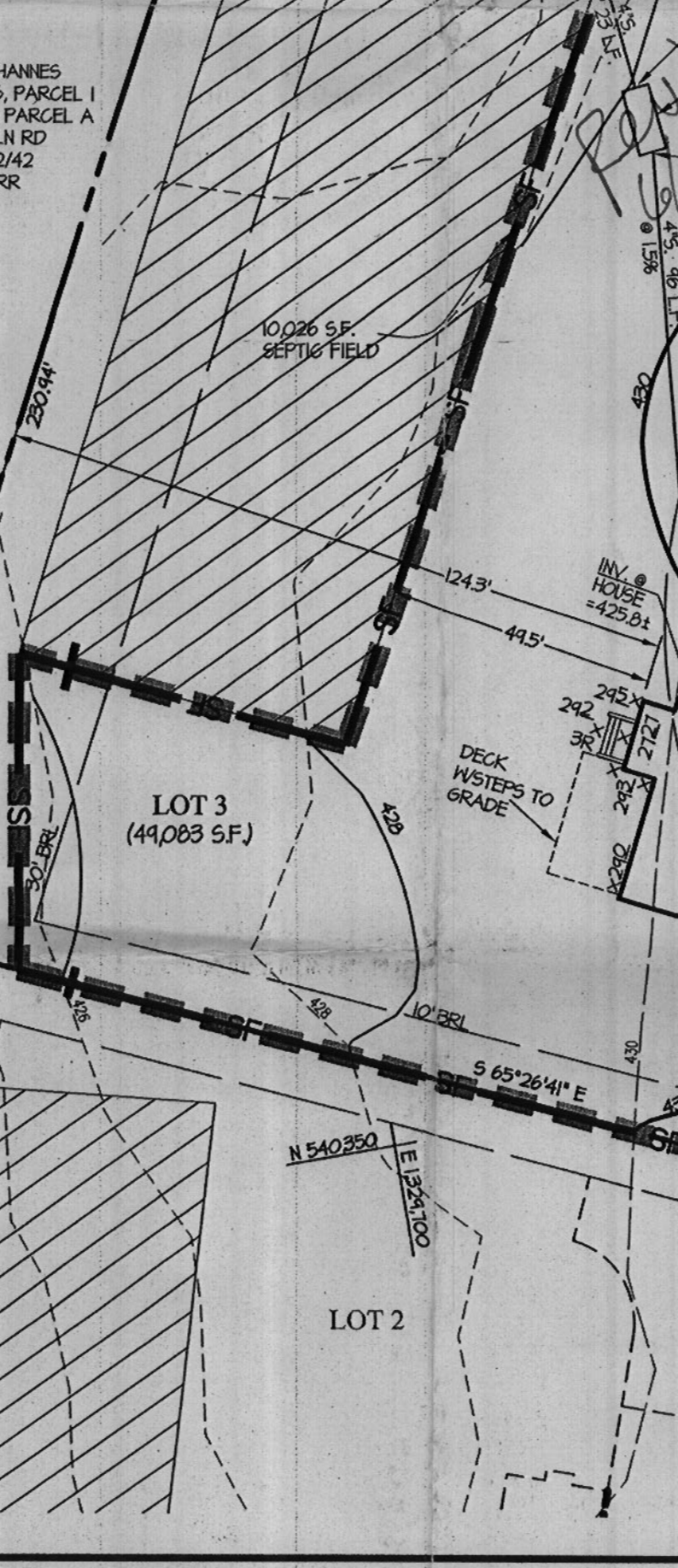
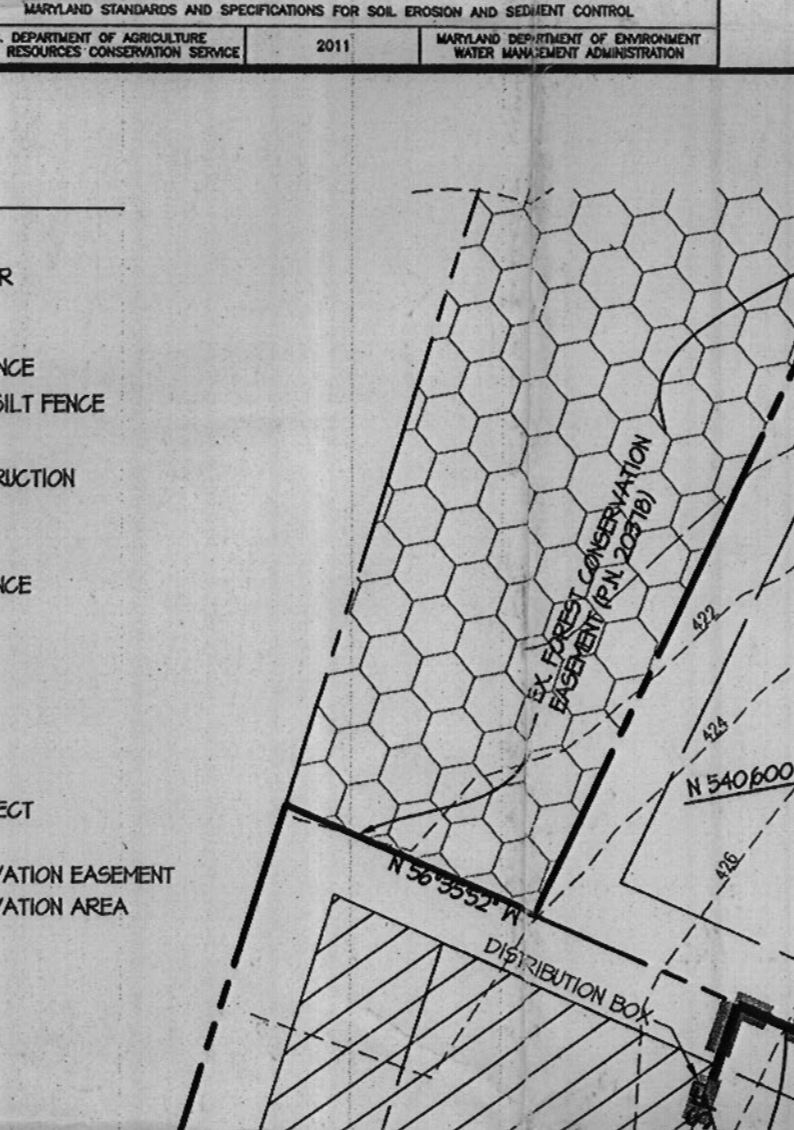
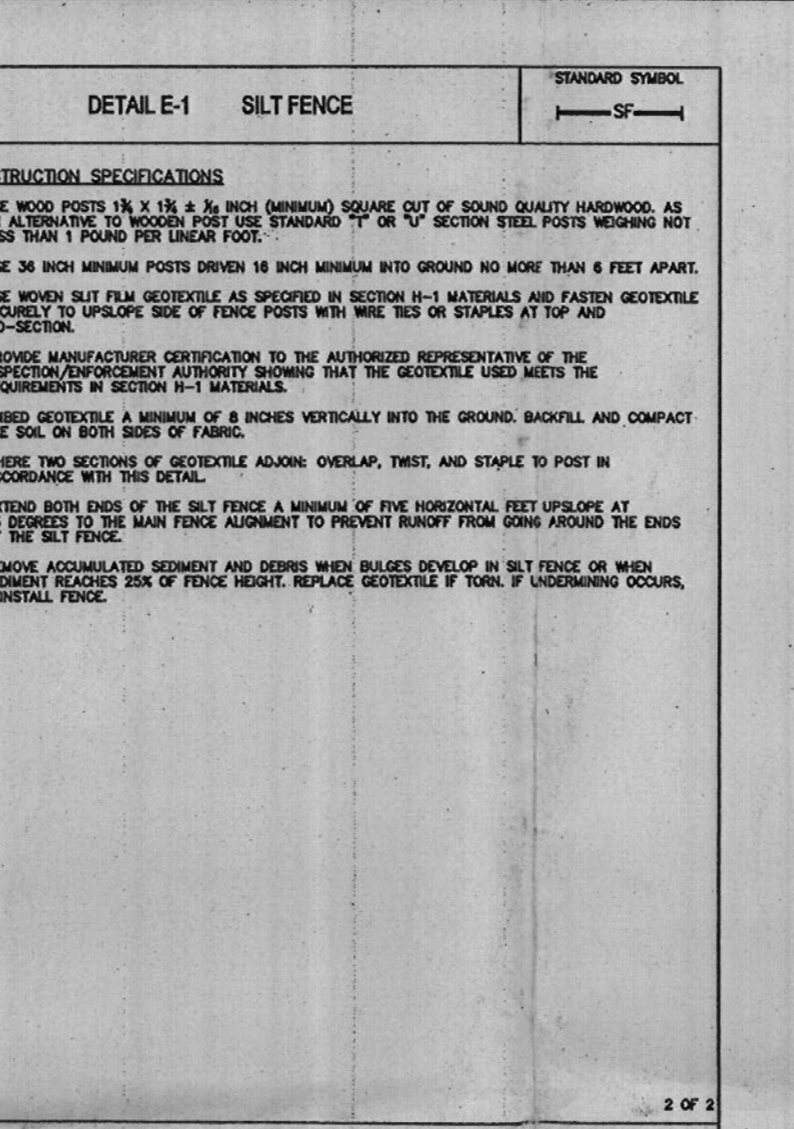
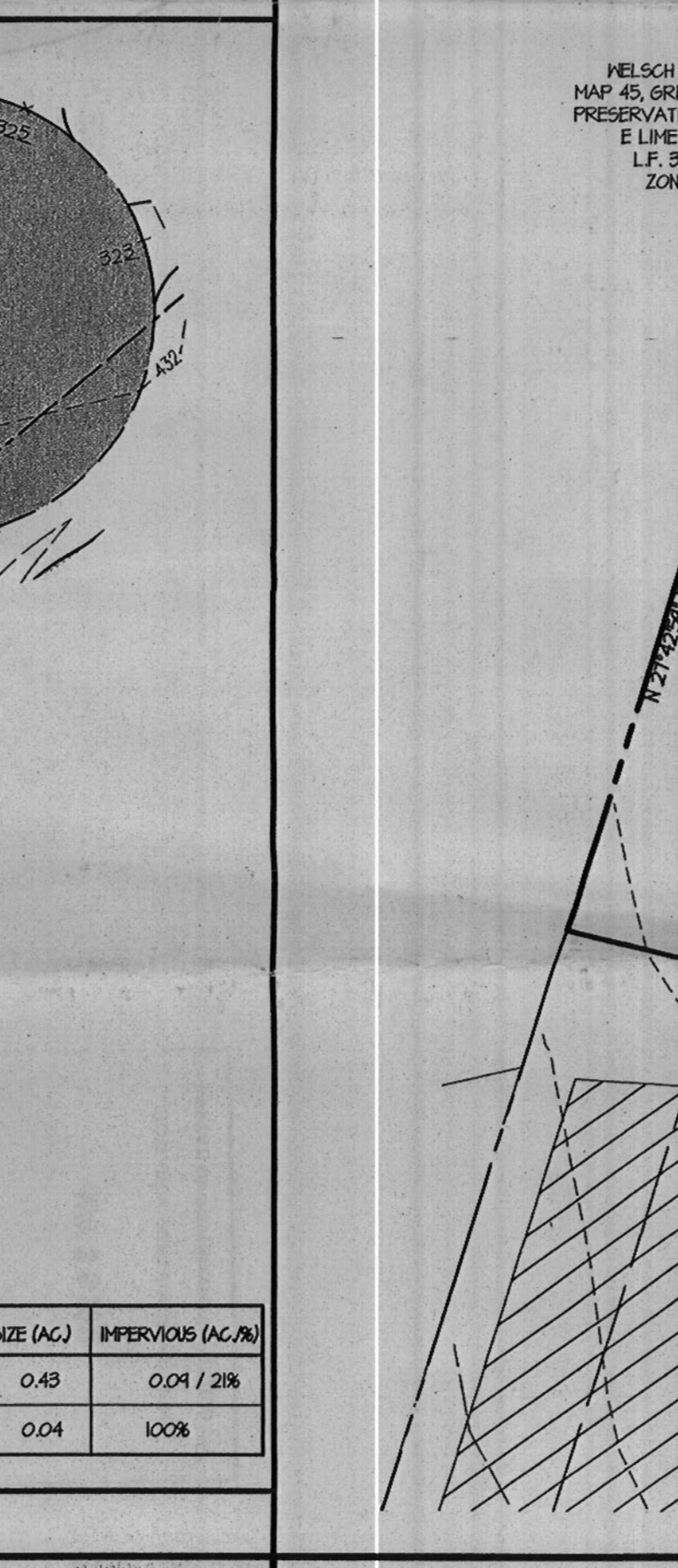
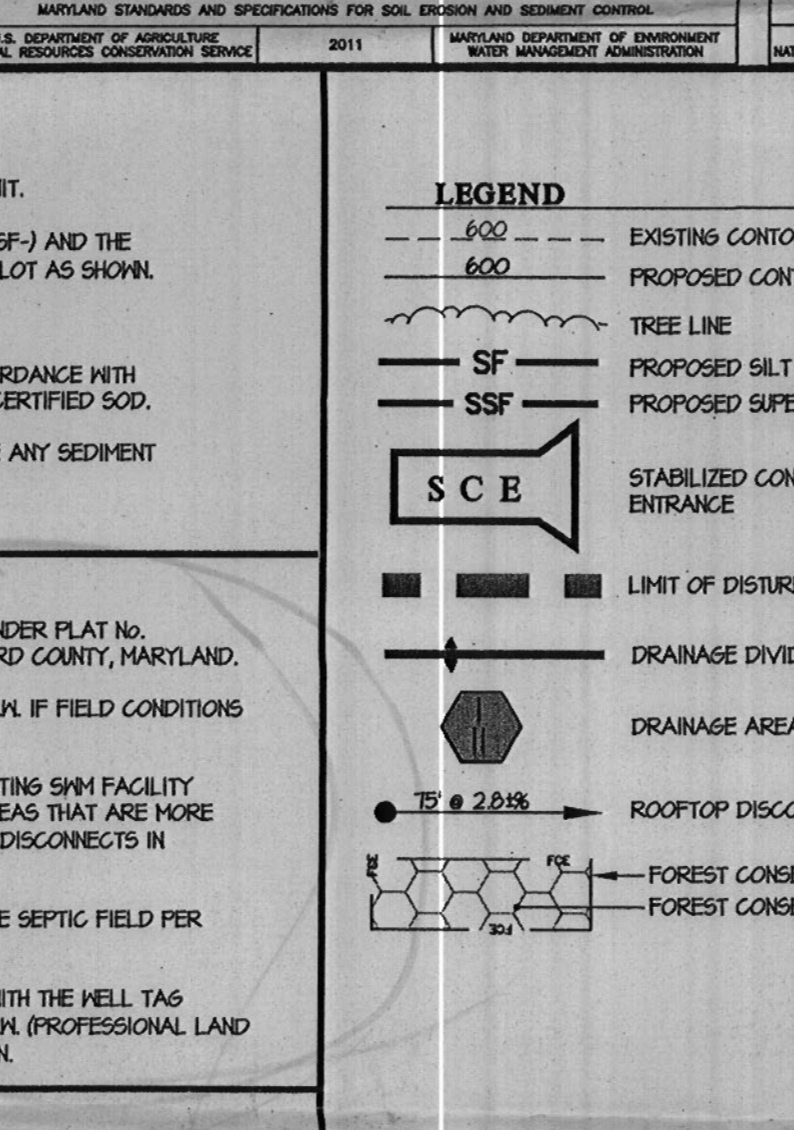
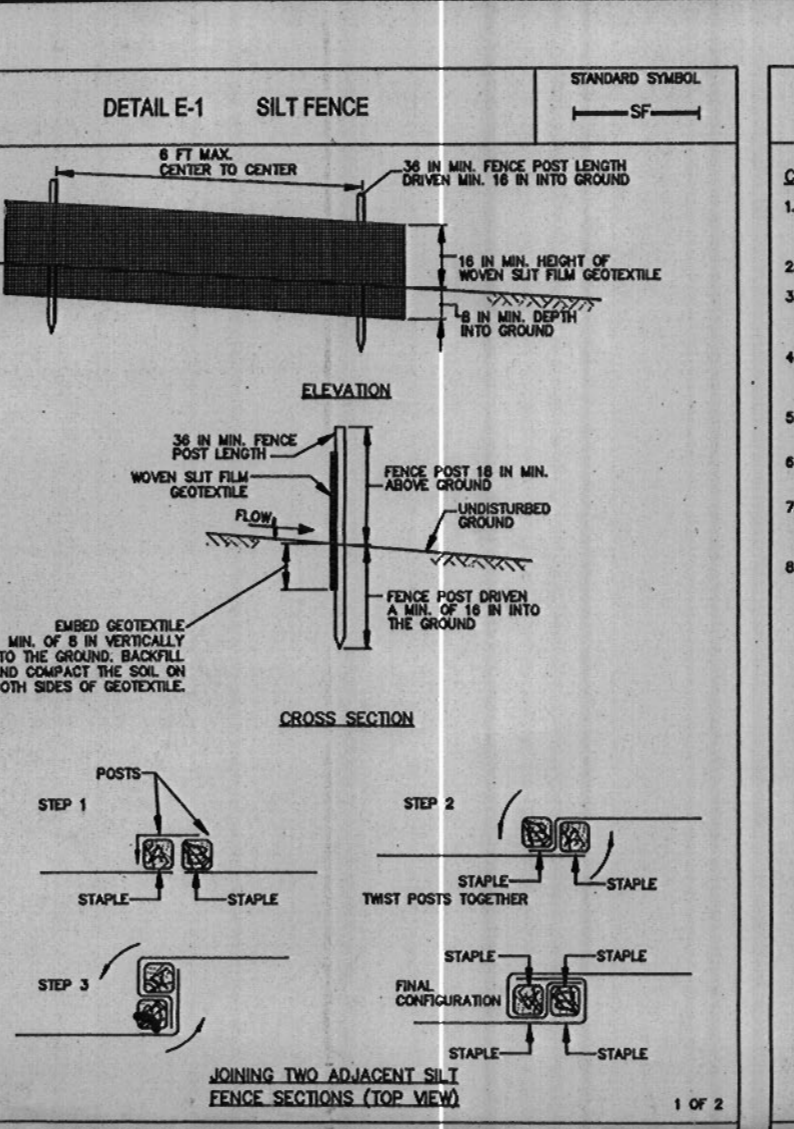
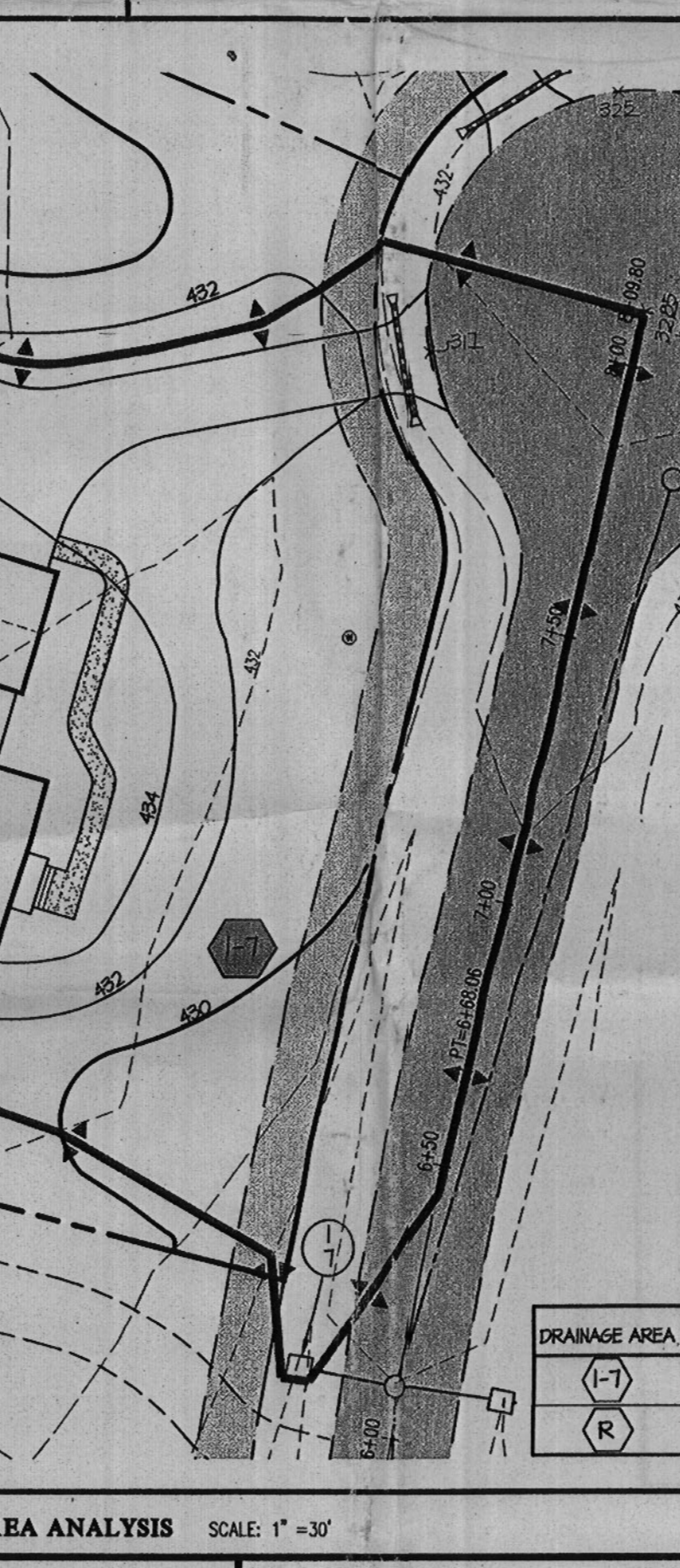
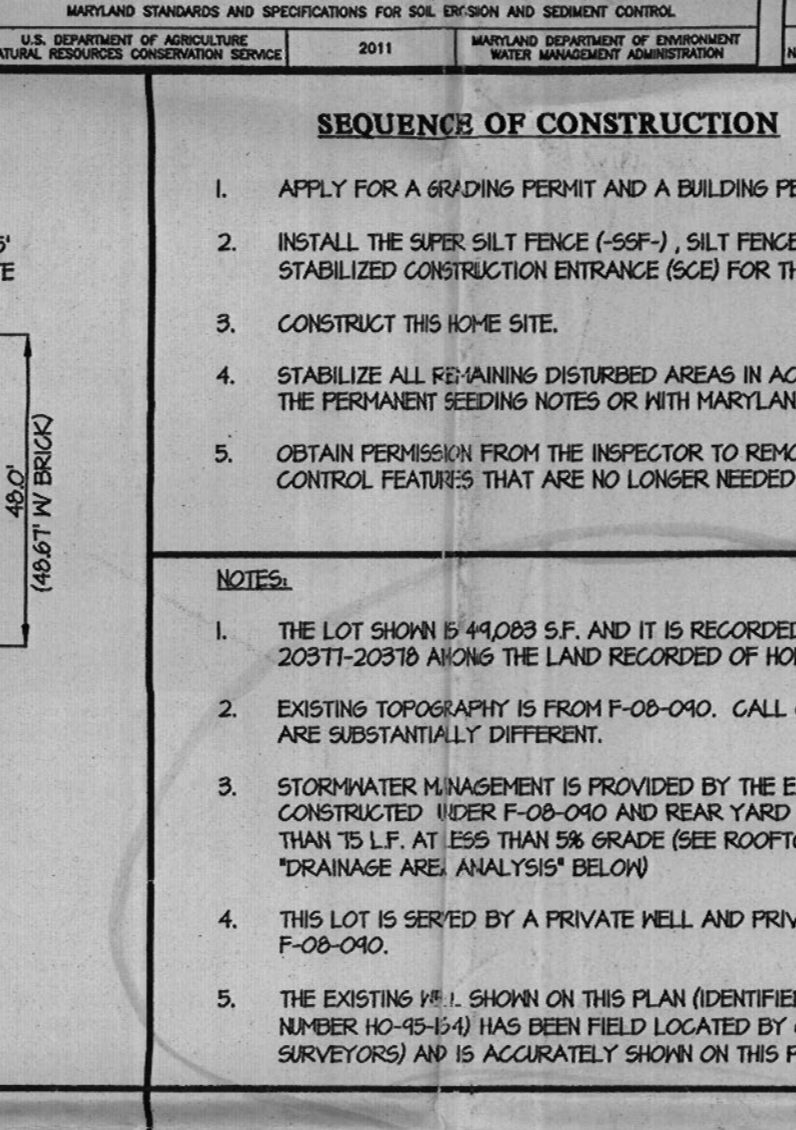
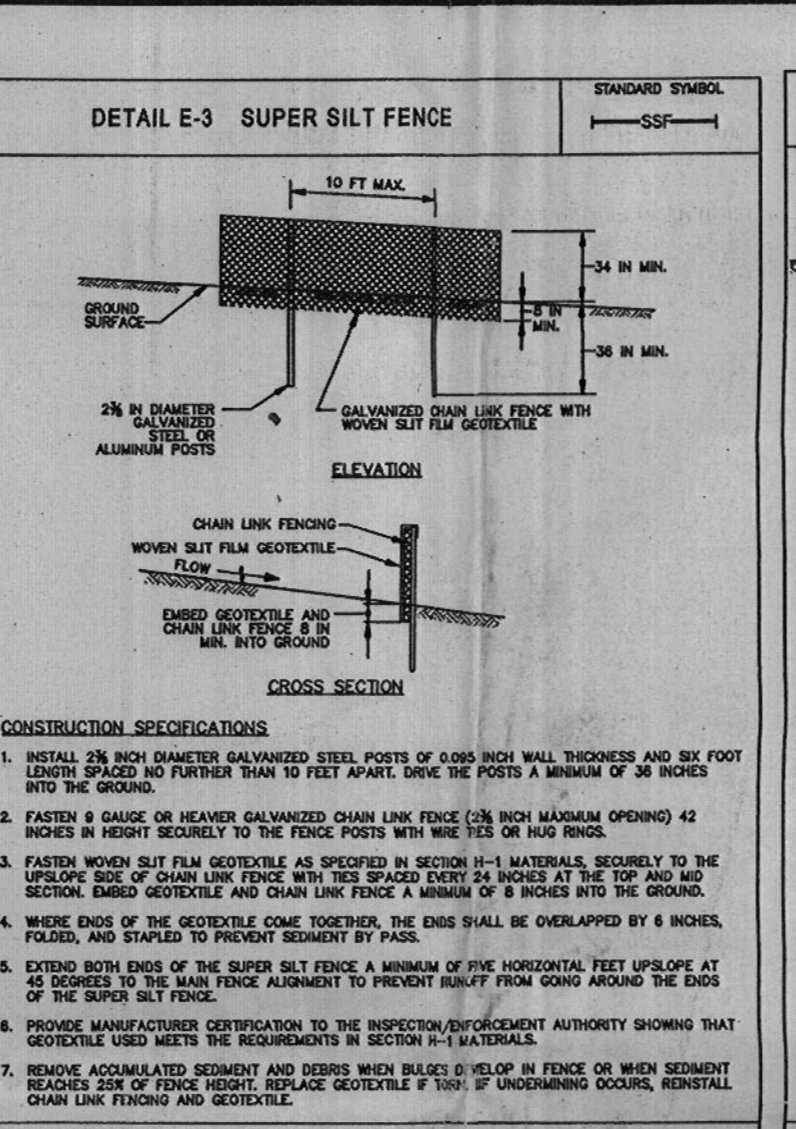
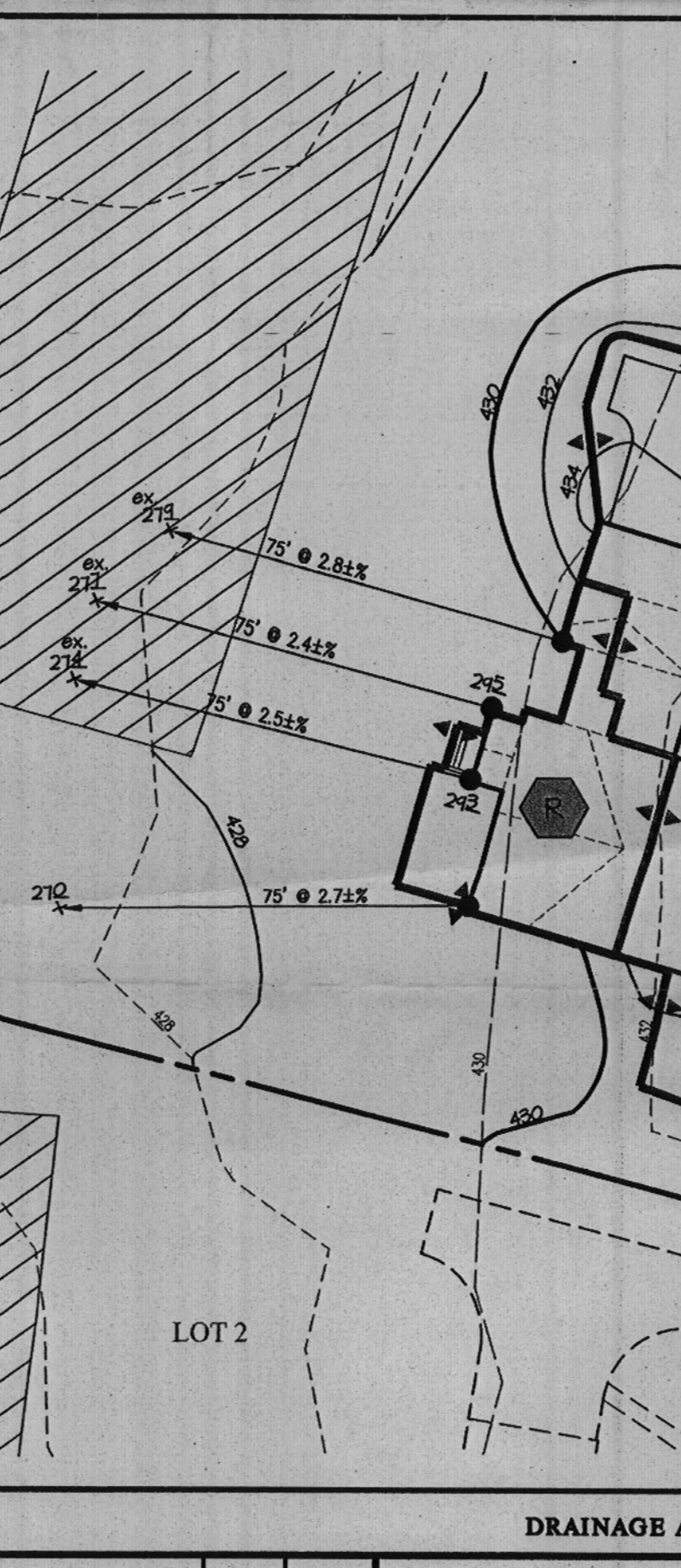
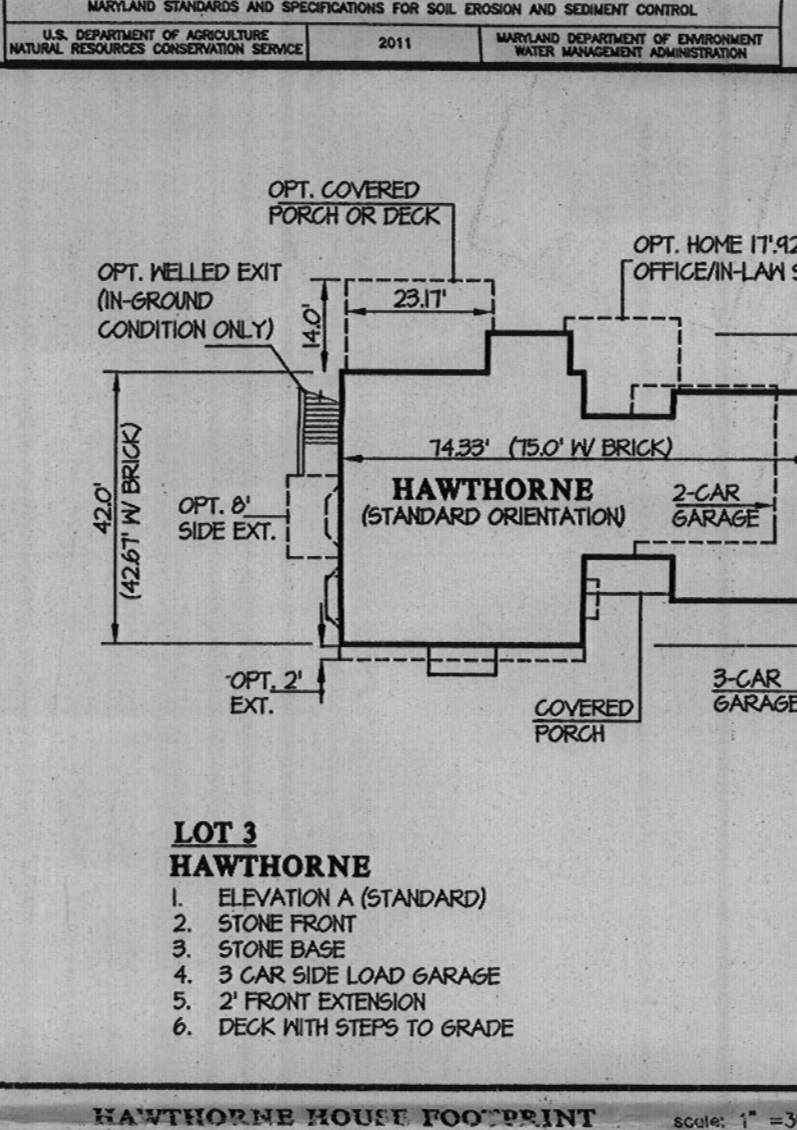
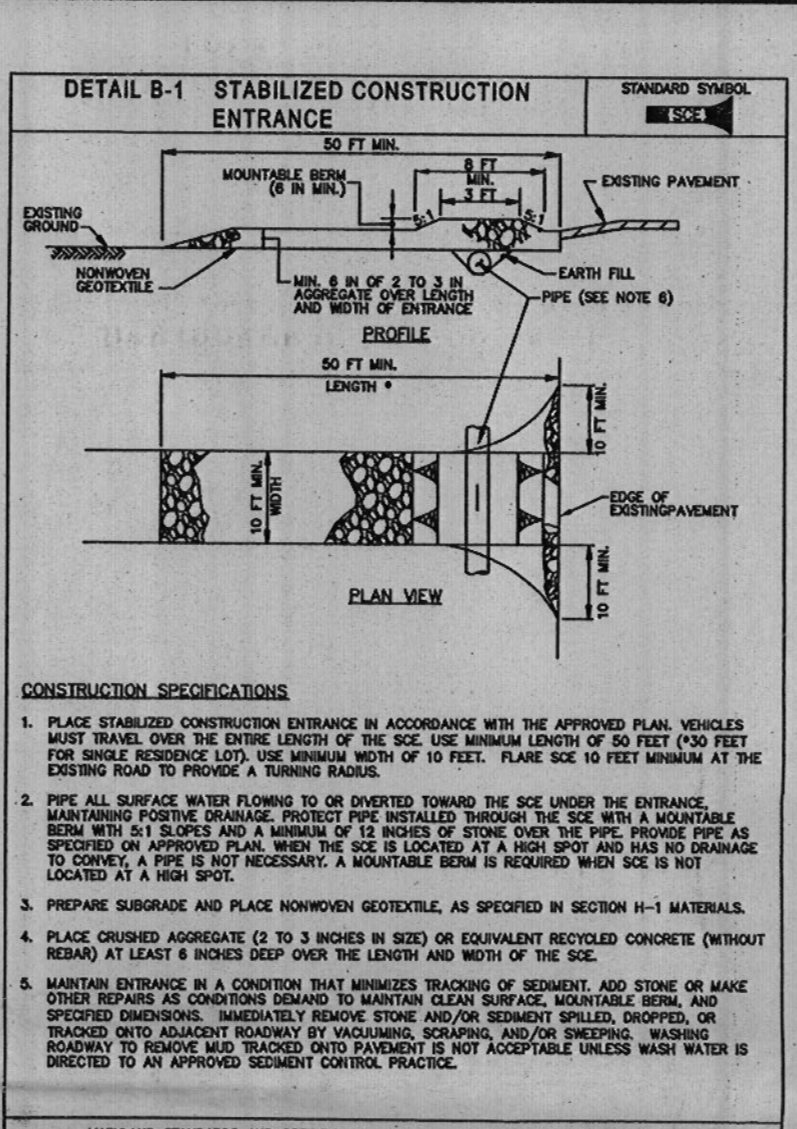
- CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE L2B FOREMAN AND INSPECTOR.
- SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORI OR UNEVEN EDGES WILL NOT BE ACCEPTABLE.
- STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASS ON THE UPPER 10 PERCENT OF THE SECTION.
- SOD MUST NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT EXCEEDS 100% DRY OR NETT MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION

- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY INTERLOCK AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- WHEREVER POSSIBLE LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. ROLL AND TAMP PDS OR OTHERWISE SECURE THE SOD TO PREVENT SLIPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
- MOWER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY MET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN 8 HOURS.

3. SOD MAINTENANCE

- IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
- DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.



**GLWGUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
BURTNSVILLE, MARYLAND 20888  
TEL: 301-421-4024 FAX: 301-421-4186

DES. MGT DRN. KLP CHK. CKG

DATE REVISION BY APPR.

PREPARED FOR:  
OWNER: HOLLY HOUSE DEVELOPMENT, LLC  
14045 GARET DRIVE  
ROCKVILLE, MD 20850  
PH: (301) 762-9511  
ATTN: JOHN CORGAN

BUILDER (Contract Purchase):  
MITCHELL & BEST  
1866 EAST GIDE DRIVE  
ROCKVILLE, MD 20850  
PH: (301) 762-9511  
ATTN: JOHN CORGAN

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE PLANS 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. 12978  
EXPIRATION DATE: MAY 28, 2014

**HOLLY HOUSE MEADOWS**  
LOT 3 (815 HOLLY MANOR WAY)  
PLAT Nos. 20377-20378

SCALE: 1" = 30'

ZONING: RC-DEO

G. L. W. FILE No.: 12058

DATE: APRIL 2013

TAX MAP - GRID: 45 - 6

SHEET: 1 OF 1

ELECTION DISTRICT No. 5

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 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

Friday, August 17, 2007

**IMPORTANT**

MEMORANDUM

To: FILE

From: Sara Fegel, R.S.  
Well and Septic Program

Re: Holly House Meadows  
Lot 3

Maximize the separation between the well on lot 3 and the abandoned septic system on lot 3. The well on lot 3 **must** be drilled in the location highlighted on the perc cert plan dated 5/21/07 and must be double cased, :