

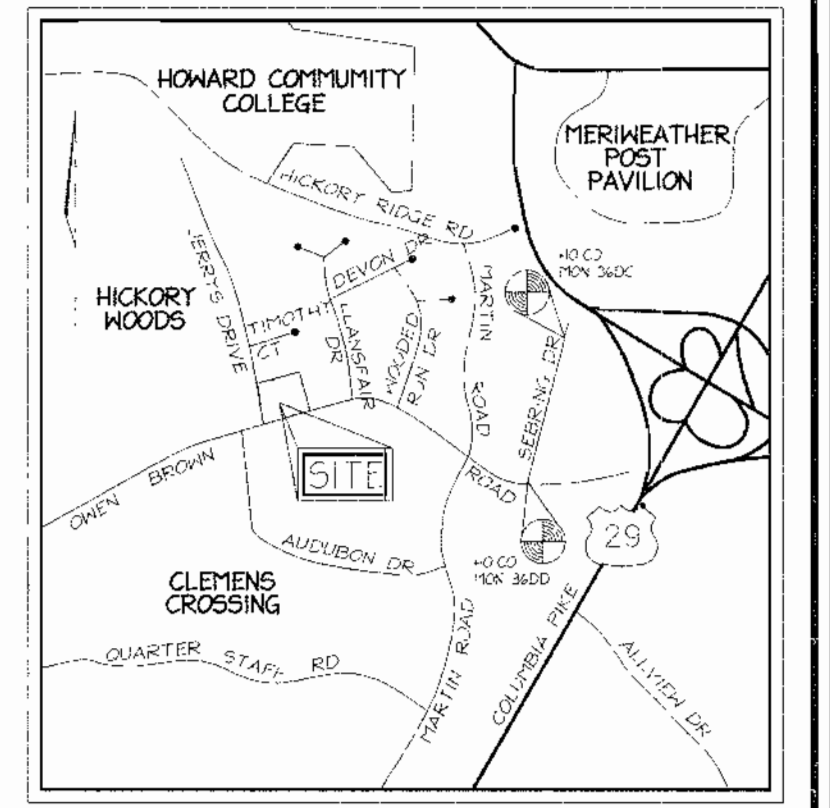
| SHEET INDEX  |           |
|--|-----------|
| DESCRIPTION  | SHEET NO. |
| COVER SHEET  | 1 OF 3    |
| SITE DEVELOPMENT AND SEDIMENT & EROSION CONTROL PLAN | 2 OF 3    |
| SITE AND SEDIMENT & EROSION CONTROL DETAILS          | 3 OF 3    |

# SITE DEVELOPMENT PLAN

# HEINZ PROPERTY

## LOTS 2 THRU 4

## HOWARD COUNTY, MARYLAND

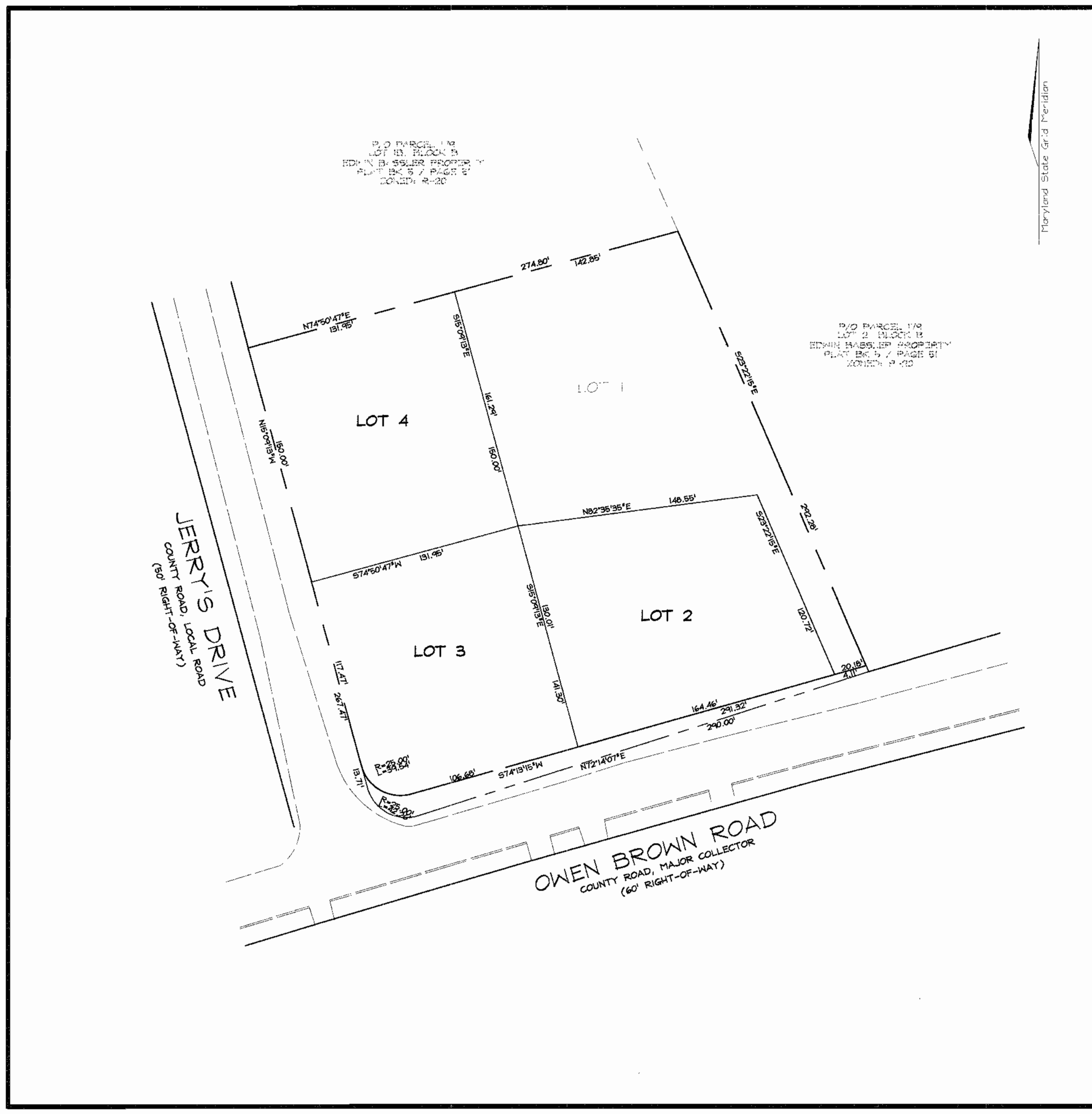


VICINITY MAP  
SCALE: 1"=200'

**BENCHMARKS**  
HOWARD COUNTY GEODETIC CONTROL STATIONS  
36DC  
36DD

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS FISHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:  
 MISS UTILITY: 1-800-257-7777  
 BELL ATLANTIC TELEPHONE CO.: 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES: 313-2366  
 AT&T CABLE LOCATION DIVISION: 393-3953  
 B & E CO. CONTRACTOR SERVICES: 950-4620  
 B & E CO. UNDERGROUND DAMAGE CONTROL: 787-4620  
 STATE HIGHWAY ADMINISTRATION: 531-5533
- SITE ANALYSIS:**  
 AREA OF SITE: 2.0425 AC  
 AREA OF PLAN SUBMISSION: 1.4155 AC  
 AREA OF OPEN SPACE REQUIRED: 0.00 AC  
 AREA OF OPEN SPACE PROVIDED: 0.00 AC  
 AREA DEDICATED TO HOV 2.0 FOR THE PURPOSE OF A PUBLIC ROAD: 0.0675 AC  
 TOTAL NUMBER OF LOTS: 3  
 PRESENT ZONING: R-20 AS PER 10/8/93 COMPREHENSIVE ZONING PLAN  
 LIMIT OF DISTURBANCE: 0.933 AC  
 PROPOSED USE OF SITE: SINGLE FAMILY DWELLINGS
- PROJECT BACKGROUND:**  
 LOCATION: TAX MAP: 35 PARCEL: 1791 BLOCK: 12  
 ZONING: R-20  
 HEINZ PROPERTY  
 DEED REFERENCE: L. 765/F. 564  
 DPZ REFERENCES: F-01-13
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE TO THE COUNTY'S RIGHT OF WAY INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOILS TEST.
- FEE-IN-LIEU OF PROVIDING STORMWATER MANAGEMENT FOR THIS PROJECT PER SECTION 5.23.A(3) OF THE DESIGN MANUAL, VOLUME 1 WAS APPROVED ON DECEMBER 20, 2000. WATER QUALITY FOR LOTS 2-4 WILL BE PROVIDED BY THE INSTALLATION OF DRYWELLS FOR EACH LOT.
- COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENT NO'S 36DC AND 36DD.
- EXISTING TOPOGRAPHY IS BASED ON PLANS PREPARED BY A FIELD SURVEY PREPARED BY VOGEL & ASSOCIATES, DATED APRIL 2000.
- ACCESS TO WATER HAS BEEN PROVIDED UNDER CONTRACT NO. 435-W. ACCESS TO SEWER HAS BEEN PROVIDED UNDER CONTRACT NO. 20-3043.
- NO STREAMS OR WETLANDS EXIST ON THIS SITE.
- THERE ARE NO STEEP SLOPES LOCATED ON THIS PROPERTY.
- NO BURIAL GROUNDS OR CEMETERIES ARE LOCATED ON THIS PROPERTY.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 6 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS. OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENT OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH - 12 FEET (14 FEET IF SERVING MORE THAN ONE RESIDENCE)  
 B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING  
 C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS  
 D) STRUCTURES (CULVERTS/BRIDGES) - MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING)  
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE  
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET  
 G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
- ALL DRIVEWAY APRONS TO BE PER HOWARD COUNTY STANDARD DETAIL NO'S R-6.05 & R-6.01 UNLESS OTHERWISE NOTED.
- PAYMENT OF LANDSCAPE SURETY FOR LOT 3 AND 4 WILL BE PAID WITH THE GRADING PERMIT APPLICATION. (LOT 3 = 6 TREES/\$1350.00) (LOT 4 = 3 TREES/\$900.00) LOT 2 IS AN INTERIOR LOT REQUIRING NO LANDSCAPING.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AS PER F-01-13.
- DOCUMENTATION IS TO BE PROVIDED TO THE HEALTH DEPARTMENT INDICATING THE PROPER WELL AND SEPTIC ABANDONMENT WITHIN 30 DAYS OF INSTALLATION AND APPROVAL OF REQUIRED UTILITIES.



LOCATION MAP  
SCALE: 1"=50'

| LOT | ELEV. @ MAIN | ELEV. @ LOT/R/W | M.C.E. |
|-----|--------------|-----------------|--------|
| 2   | 367.86       | 368.08          | 370.38 |
| 3   | 367.76       | 367.94          | 370.40 |
| 4   | 368.69       | 369.23          | 373.69 |

| NO. | REVISION | DATE |
|-----|----------|------|
|     |          |      |
|     |          |      |
|     |          |      |

| ADDRESS CHART |                      |
|---------------|----------------------|
| LOT #         | STREET ADDRESS       |
| 2             | 0464 OWEN BROWN ROAD |
| 3             | 6127 JERRY'S DRIVE   |
| 4             | 6125 JERRY'S DRIVE   |

| PERMIT INFORMATION CHART |              |               |         |              |
|--------------------------|--------------|---------------|---------|--------------|
| PROJECT NAME             | SECTION/AREA | PARCEL NUMBER | 1791    |              |
| HEINZ PROPERTY           | N/A          |               |         |              |
| PLAT REF.                | BLOCK NO.    | ZONE          | TAX MAP | ELECT. DIST. |
| 14703                    | 12           | R-20          | 35      | 5th          |
| WATER CODE               |              | SEWER CODE    |         |              |

**COVER SHEET**

**HEINZ PROPERTY**

**LOTS 2-4**

TAX MAP 35 BLOCK 12 PARCEL 1791  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
REF: F-01-13

**FREDERICK WARD ASSOCIATES, INC.**  
 ENGINEERS: 7125 Riverwood Drive Columbia, Maryland 21046-2354  
 ARCHITECTS: Phone: 410-290-9550 Fax: 410-720-8226  
 SURVEYORS: Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DESIGN BY: RHV  
 DRAWN BY: CMH  
 CHECKED BY: JCO  
 DATE: MAY 21, 2001  
 SCALE: AS SHOWN  
 W.O. NO.: 2014039.0

1 SHEET OF 3

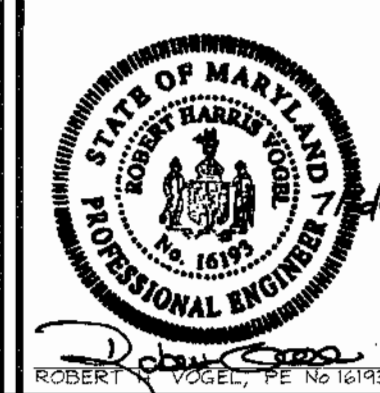
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*W. Damann* 7/17/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Candy Brantner* 7/19/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

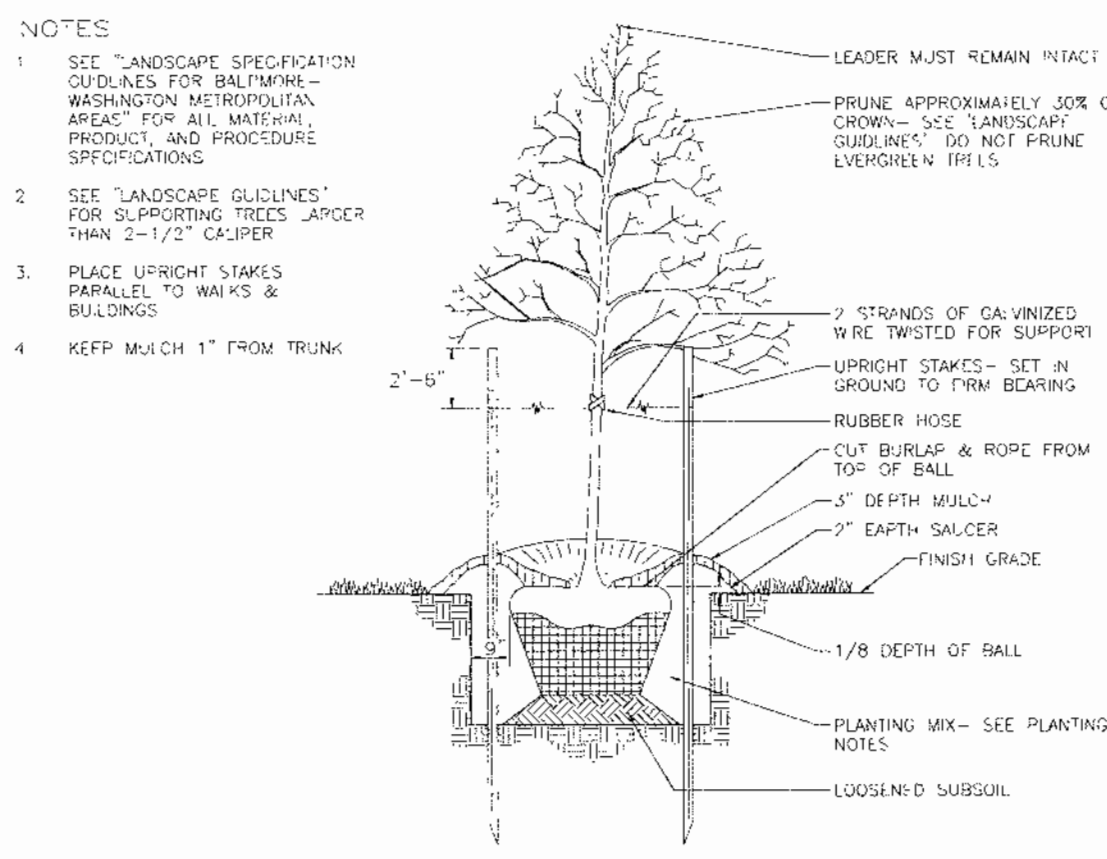
*Joseph Roth* 7/19/01  
 DIRECTOR DATE

**OWNER/DEVELOPER**  
 THE WILLIAMSBURG GROUP  
 5485 HARPER'S FARM ROAD  
 SUITE 200  
 COLUMBIA, MARYLAND 21044  
 (410) 997-5522



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**TREE PLANTING AND STAKING**  
DECIDUOUS AND EVERGREEN TREES UP TO 3" CALIPER NOT TO SCALE

**PLANT LIST**

| QTY | BOTANICAL NAME/<br>COMMON NAME       | SIZE           | ROOT  |
|-----|--------------------------------------|----------------|-------|
| 6   | ACER RUBRUM/<br>RED MAPLE            | 1 1/2" - 3" DB | B & d |
| 3   | PINUS STROBUS/<br>EASTERN WHITE PINE | 6-8 HI         | B & d |

**SCHEDULE A PERIMETER LANDSCAPE EDGE**

| CATEGORY  | ADJACENT TO ROADWAYS                      | ADJACENT TO PERIMETER PROPERTIES | ADJACENT TO PERIMETER PROPERTIES | ADJACENT TO PERIMETER PROPERTIES |
|---|---|----------------------------------|----------------------------------|----------------------------------|
| LANDSCAPE TYPE  | LINEAR FEET OF ROADWAY FRONTAGE/PER-METER | TYPE 'A'                         | TYPE 'B'                         | TYPE 'C'                         |
| CREDIT FOR EXISTING VEGETATION (YES/NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA  | 475, 295'                        | NO                               | NO                               |
| CREDIT FOR WALL, FENCE OR BERM (YES/NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA  | NO                               | NO                               | NO                               |
| NUMBER OF PLANTS REQUIRED   | NA  | 0                                | 0                                | 0                                |
| SHADE TREES   | NA  | 0                                | 0                                | 0                                |
| EVERGREEN TREES   | NA  | 0                                | 0                                | 0                                |
| NUMBER OF PLANTS PROVIDED   | NA  | 0                                | 0                                | 0                                |
| SHADE TREES   | NA  | 0                                | 0                                | 0                                |
| EVERGREEN TREES   | NA  | 0                                | 0                                | 0                                |
| OTHER TREES (2:1 SUBSTITUTION)  | NA  | 0                                | 0                                | 0                                |
| SHRUBS (10:1 SUBSTITUTION)  | NA  | 0                                | 0                                | 0                                |

\* PERIMETER 'A' EXEMPT FROM LANDSCAPE REQUIREMENTS (NO LANDSCAPING REQUIRED FOR A NEW 'J' WITH AN EXISTING HOUSE)

AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREON AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OF RELOCATED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.

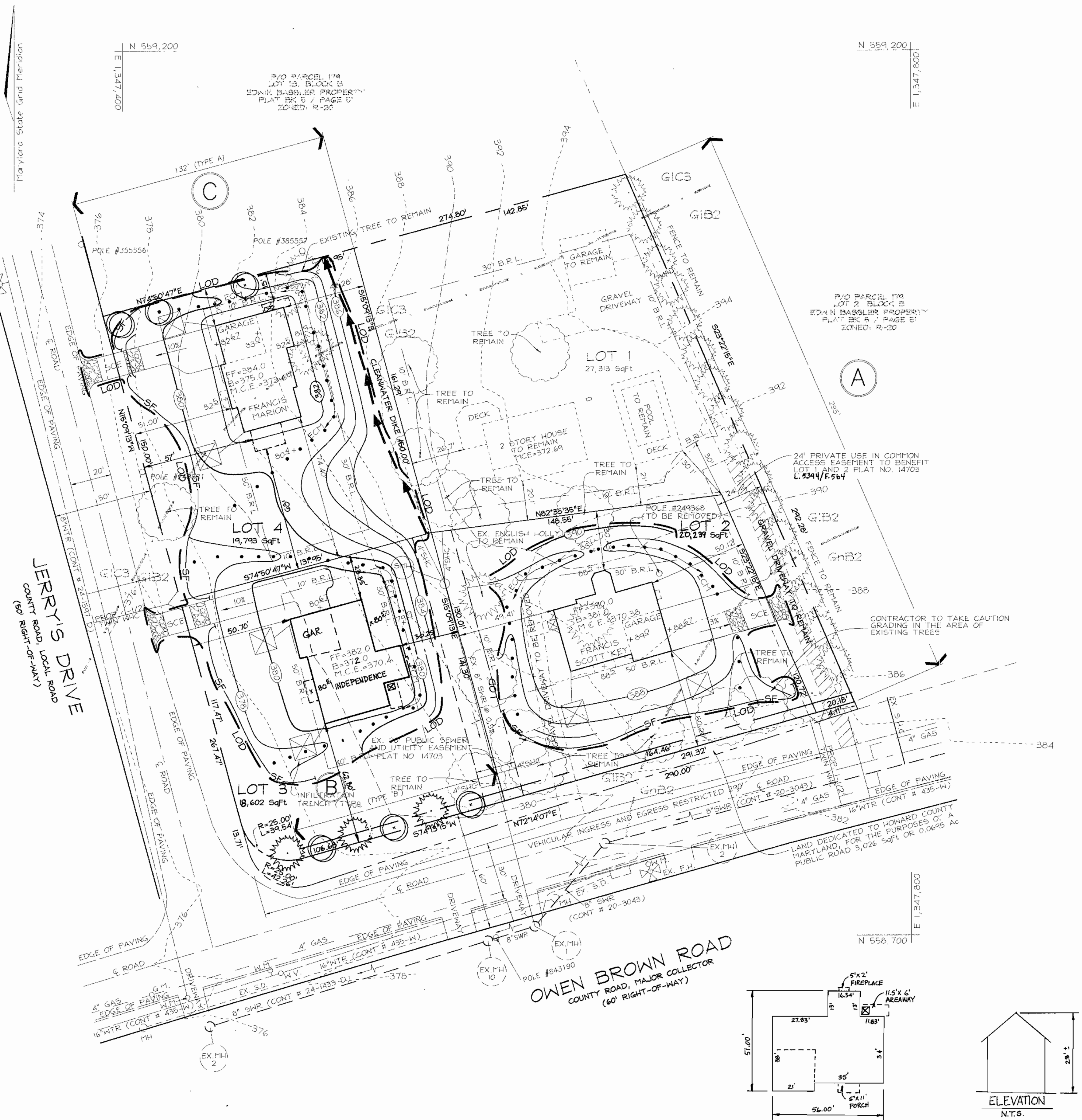
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY LANDSCAPE MANUAL, AND FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

SIGNATURE: *[Signature]* DATE: 7/6/01

**SOILS LEGEND**

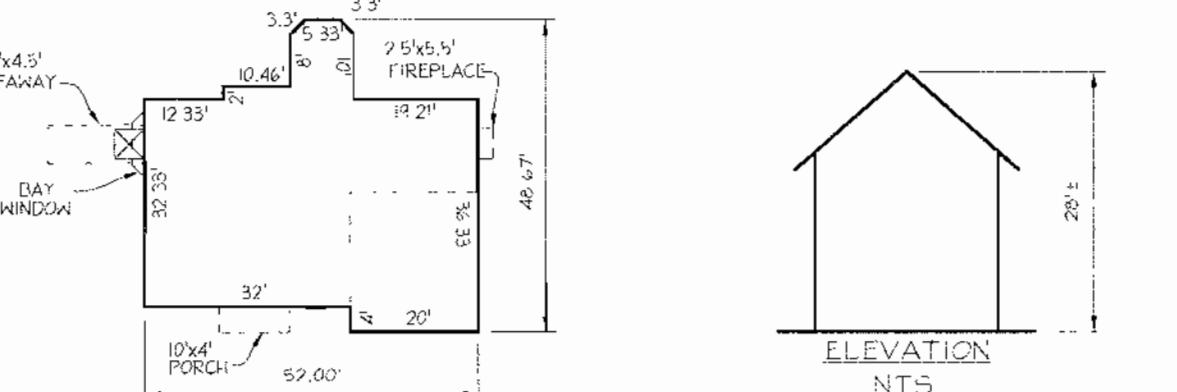
| SYMBOL | NAME / DESCRIPTION  | TYPE |
|--------|---|------|
| G-B2   | GLENNELG LOAM 3 TO 8 PERCENT SLOPES MODERATELY ERODED       | B    |
| G-C3   | GLENNELG LOAM 8 TO 15 PERCENT SLOPES SEVERELY ERODED        | B    |
| G-B2   | GLENNELG SILT LOAM 8 TO 15 PERCENT SLOPES MODERATELY ERODED | C    |

NOTE: HOWARD SOIL SURVEY, MAP NUMBER 24

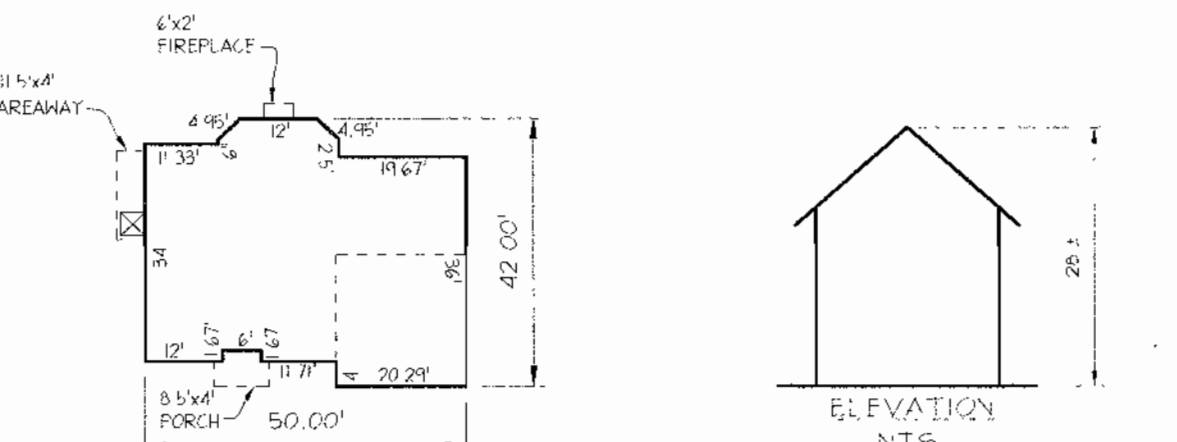


**LEGEND**

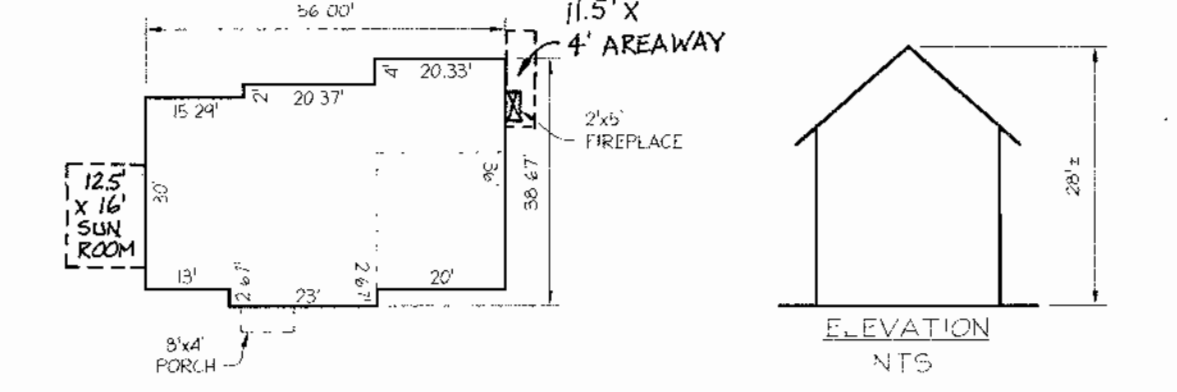
|                                 |         |
|---------------------------------|---------|
| Existing Contour                | --- 382 |
| Proposed Contour                | --- 382 |
| Spot Elevation                  | 182.53  |
| Direction of Flow               | ---     |
| Tree Protection Fence           | ---     |
| Stabilize Construction Entrance | ---     |
| Silt Fence                      | ---     |
| Limit of Disturbance            | ---     |
| Soils Divide                    | ---     |
| Erosion Control Matting         | ---     |
| Cleanwater Dike                 | ---     |
| Existing Trees                  | ---     |
| Proposed Landscaping            | ---     |
| Evergreen Trees Shade Trees     | ---     |



FRANCIS SCOTT KEY



JOHN RUTLEDGE



FRANCIS MARION LOT 4

**HOUSE TYPES**

SCALE: 1"=30'

|    |                                     |          |
|----|-------------------------------------|----------|
| 2  | REVISE HOUSE TYPE LOT 3             | 09/27/01 |
| 1  | ADD SUNROOM TO FRANCIS MARION MODEL |          |
| NO | REVISION                            | DATE     |

**SITE DEVELOPMENT AND SEDIMENT & EROSION CONTROL PLAN**  
**HEINZ PROPERTY**  
**LOTS 2-4**  
TAX MAP 35 BLOCK 12 5TH ELECTION DISTRICT PARCEL '179'  
REF: F-01-13 HOWARD COUNTY, MARYLAND

**FREDERICK WARD ASSOCIATES, INC.**  
ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354  
ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226  
SURVEYORS Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

|               |                     |                    |
|---------------|---------------------|--------------------|
|               | DESIGN BY: RHW      | <p>2 SHEET 3</p>   |
|               | DRAWN BY: CMH       |                    |
|               | CHECKED BY: JCO     |                    |
|               | DATE: JUNE 25, 2001 |                    |
| SCALE: 1"=30' |                     | W.O. NO. 2014039.0 |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 7/17/01  
DATE: 7/19/01  
DATE: 7/19/01

**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: *[Signature]* DATE: 7/16/01  
ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**  
"I/WE 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 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 OF DEVELOPER: *[Signature]* DATE: 7/6/01

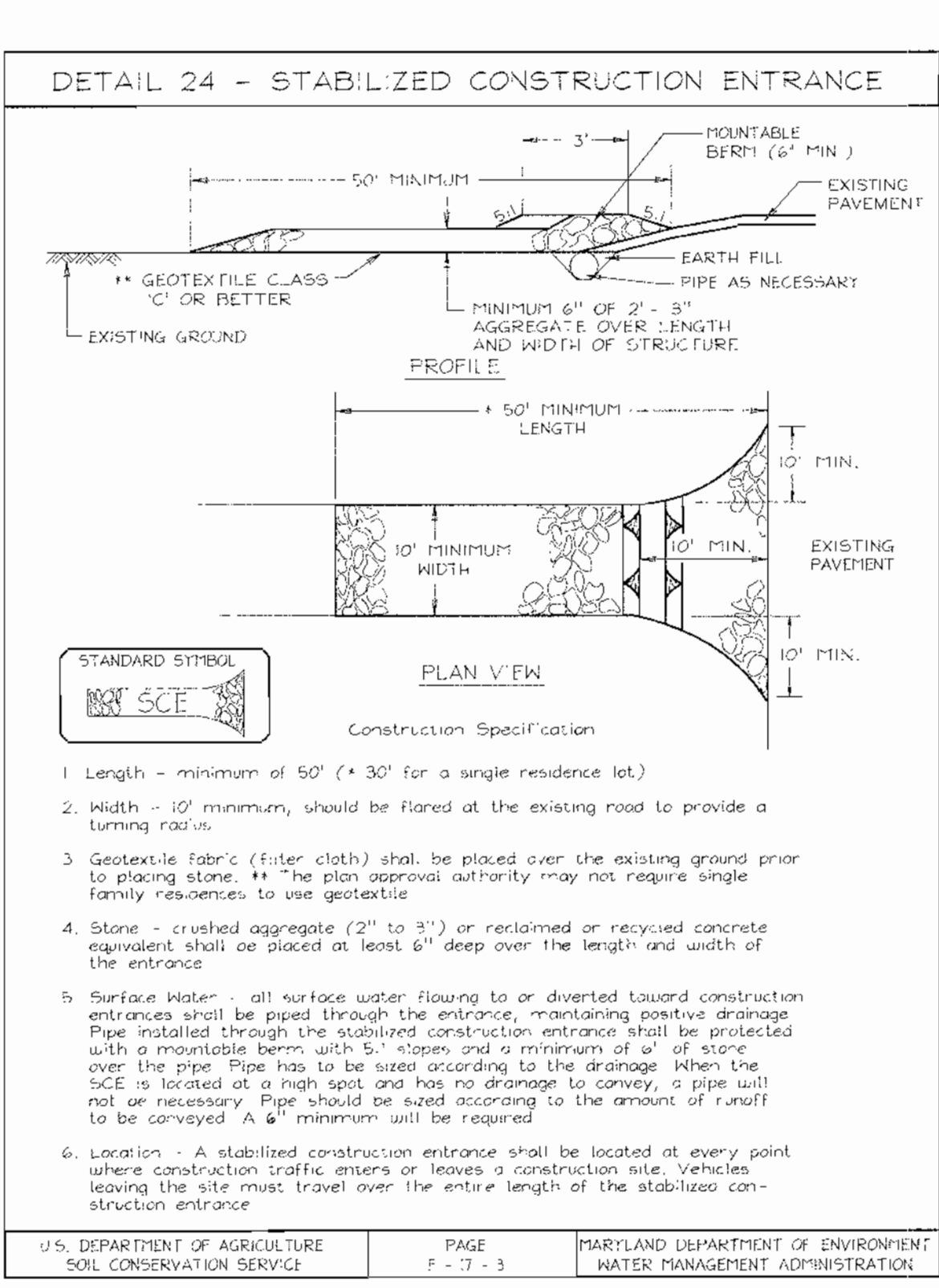
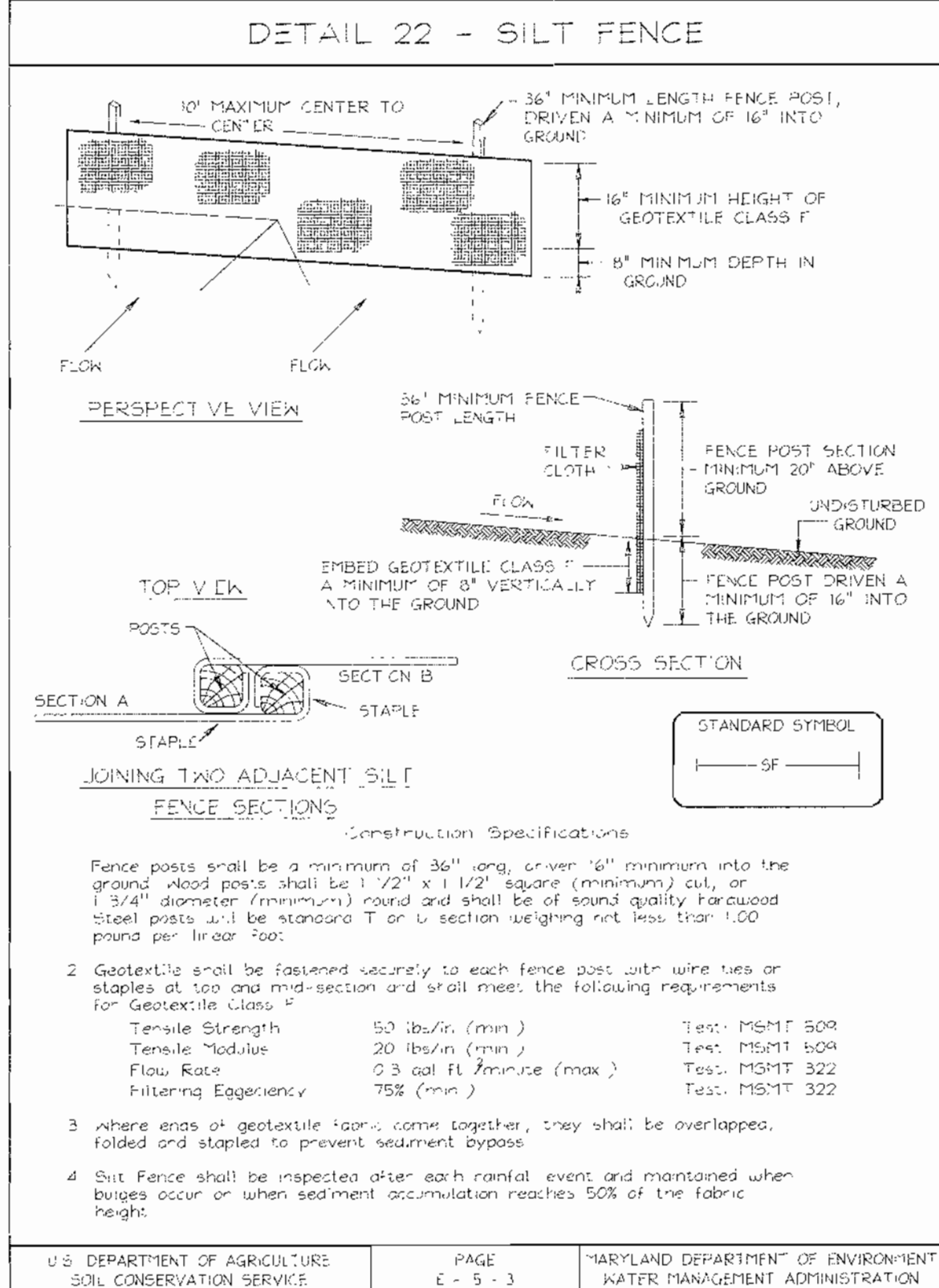
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS:

SIGNATURE: *[Signature]* DATE: 7/13/01  
HOWARD SCD

**INDEPENDENCE**

ELEVATION N.T.S.





### 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, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In view of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 50-0-0 ureaformal fertilizer (5 lbs./1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.5 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre 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 31 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 untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

### TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.7 lbs./1000 sq.ft.). For the period November 1 thru 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 sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

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

### SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (313-1895).
- All vegetation 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 as revisions thereto.
- Following initial soil disturbance or redistribution, 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, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding rates 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                         | 2,0425 AC | SUBMISSION 1,455 AC |
| Area Disturbed                     | 0.383 AC  |                     |
| Area to be seeded or paved         | 0.205 AC  |                     |
| Area to be vegetatively stabilized | 0.178 AC  |                     |
| Total Cut                          | 360 CY    |                     |
| Total Fill                         | 1500 CY   |                     |
| Offsite waste/narrow area location |           |                     |
- 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 controls 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 three pipe lengths or shorter, which shall be back-filled and stabilized within one working day, whichever is shorter.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

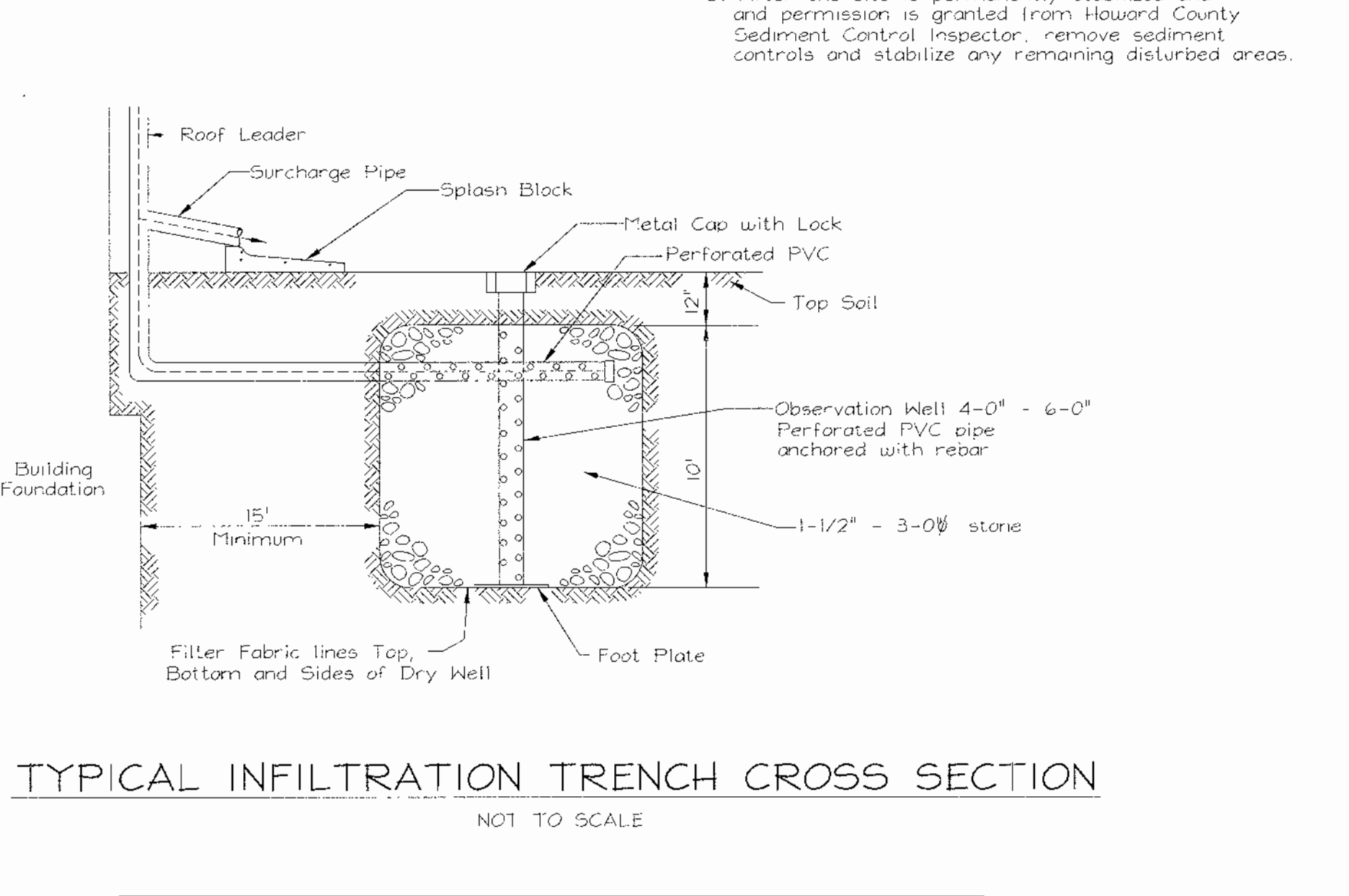
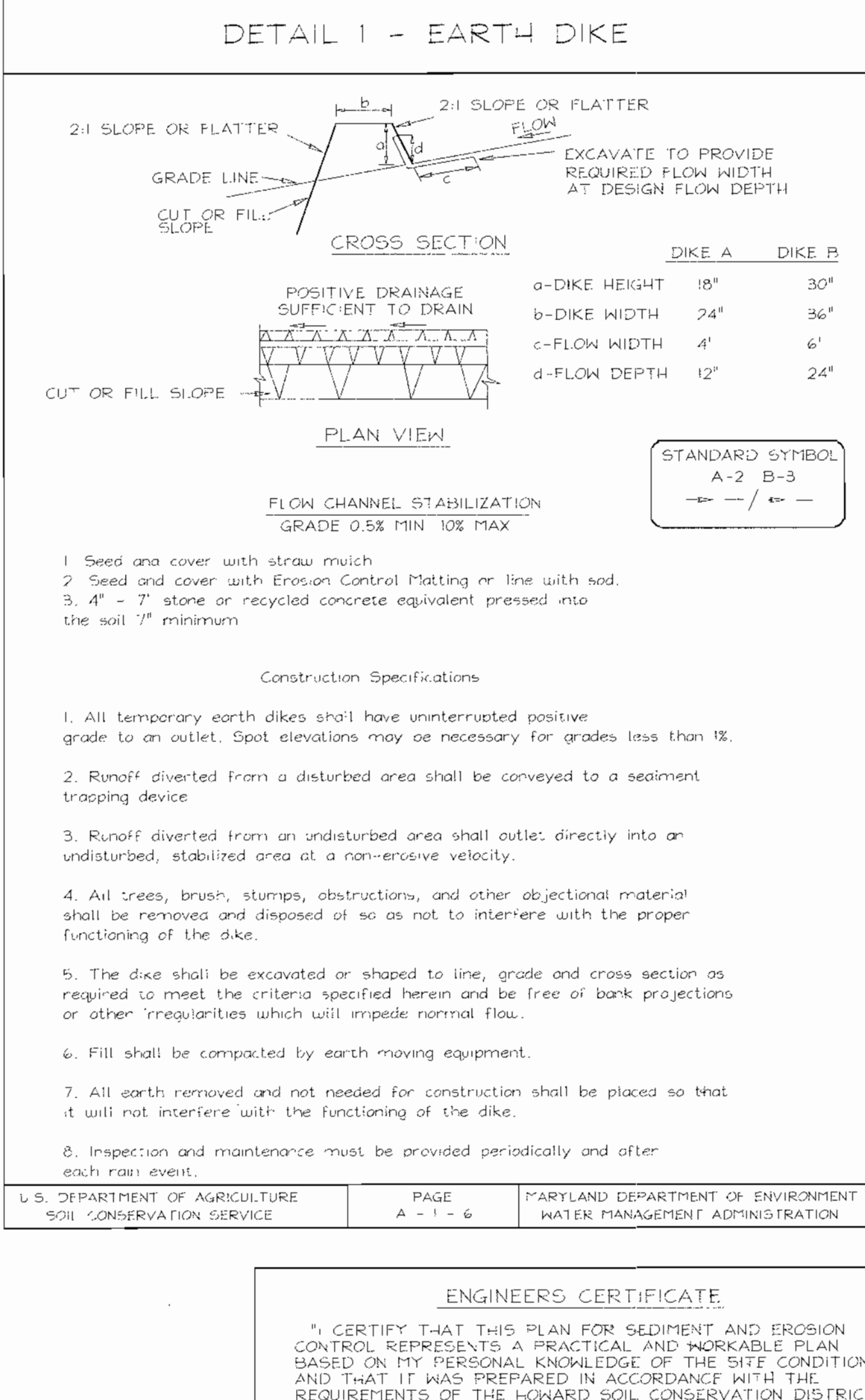
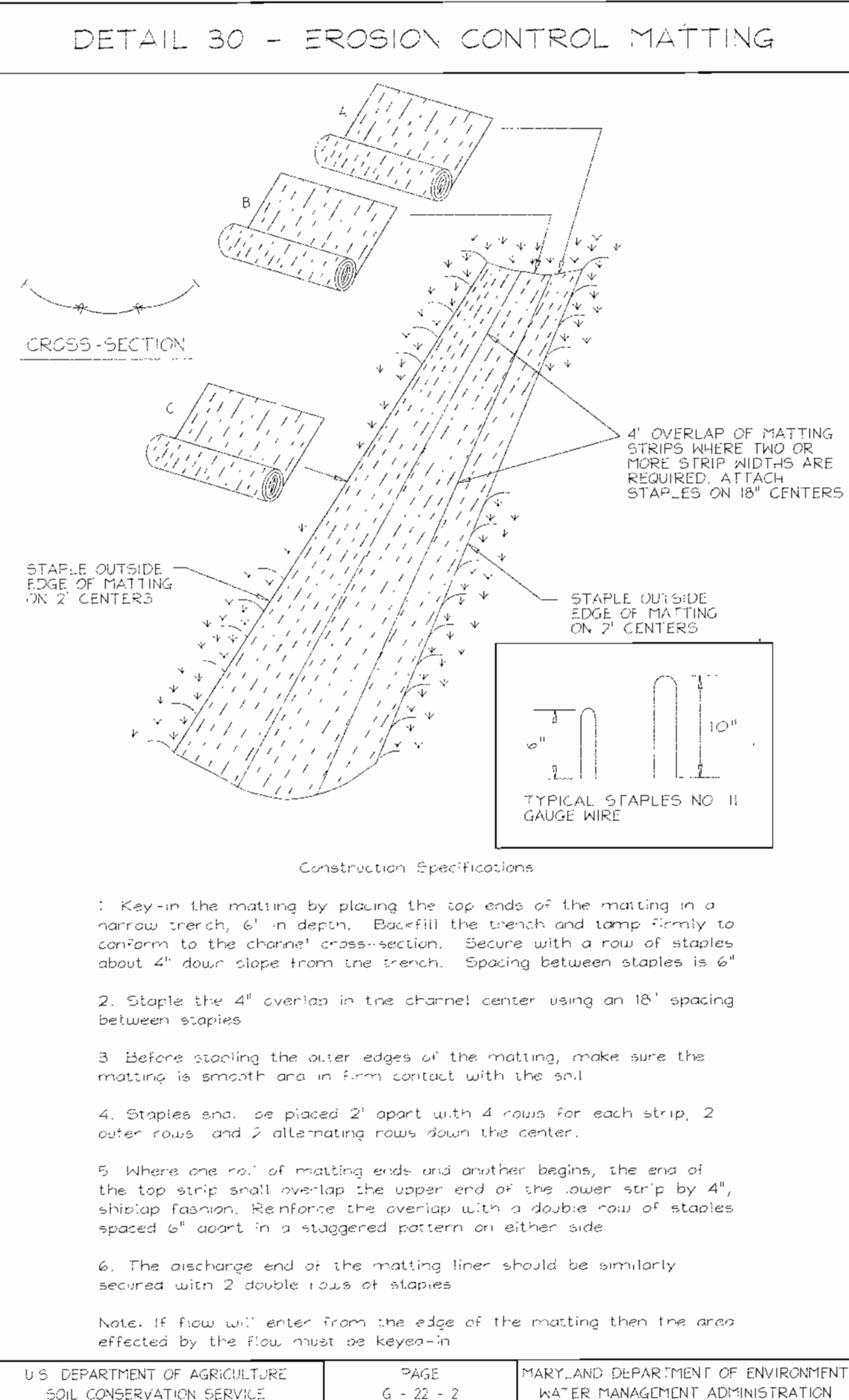
### 21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

**Definition:** Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose:** To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptably high gradation.

**Conditions Where Practice Applies:**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.
  - Topsoil substituted or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
  - Place topsoil (if required) and apply soil amendments specified in 20.0 Vegetative Stabilization-Section I-vegetative Stabilization Methods and Materials.
- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
  - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4' - 6" higher in elevation.
  - Topsoil shall be uniformly distributed in a 4' - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
  - Topsoil shall not be placed where the topsoil or subsoil is in a frozen or muddy condition. When the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.



**OWNER/DEVELOPER**  
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**SITE AND SEDIMENT & EROSION CONTROL DETAILS**  
**HEINZ PROPERTY**  
**LOTS 2-4**

TAX MAP 35 BLOCK 12 PARCEL 1791  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
REF: F-01-13

**FREDERICK WARD ASSOCIATES, INC.**  
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DESIGN BY: RHW  
DRAWN BY: CMH  
CHECKED BY: JCO  
DATE: JULY 2, 2001  
SCALE: AS SHOWN  
W.O. NO.: 2014039.0

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