

| SHEET INDEX |                                   |
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| 1           | COVER SHEET                       |
| 2           | SITE DEVELOPMENT PLAN             |
| 3           | SITE DEVELOPMENT PLAN             |
| 4           | SITE DEVELOPMENT PLAN             |
| 5           | SITE DEVELOPMENT PLAN             |
| 6           | SEDIMENT AND EROSION CONTROL PLAN |
| 7           | SEDIMENT AND EROSION CONTROL PLAN |
| 8           | SEDIMENT AND EROSION CONTROL PLAN |
| 9           | SEDIMENT AND EROSION CONTROL PLAN |
| 10          | DETAIL SHEET                      |

| LOT                      | INVERT @ 2' DIA | E      |
|--------------------------|-----------------|--------|
| HOLLIFIELD SECTION ONE   |                 |        |
| 4                        | 338.90          | 340.60 |
| 5                        | 328.50          | 332.60 |
| 6                        | 326.70          | 330.60 |
| 11                       | 299.50          | 303.60 |
| 12                       | 292.30          | 296.60 |
| 13                       | 289.80          | 293.60 |
| 19                       | 334.00          | 339.60 |
| 21                       | 343.80          | 348.60 |
| 22                       | 344.80          | 349.60 |
| 23                       | 350.50          | 352.60 |
| 30                       | 345.46          | 349.88 |
| 31                       | 342.40          | 344.60 |
| 32                       | 337.20          | 342.60 |
| 33                       | 307.20          | 312.60 |
| 34                       | 308.20          | 312.60 |
| 39                       | 329.50          | 333.60 |
| 40                       | 333.00          | 337.60 |
| 45                       | 362.40          | 366.60 |
| 47                       | 361.70          | 365.60 |
| 48                       | 356.20          | 360.60 |
| HOLLIFIELD SECTION TWO   |                 |        |
| 50                       | 365.40          | 369.60 |
| 51                       | 36.40           | 365.60 |
| 52                       | 359.50          | 363.60 |
| 53                       | 355.80          | 362.60 |
| 59                       | 348.60          | 352.60 |
| 60                       | 355.50          | 359.60 |
| 62                       | 36.90           | 366.60 |
| 63                       | 365.80          | 370.60 |
| 68                       | 360.95          | 364.95 |
| 69                       | 36.30           | 362.60 |
| 70                       | 360.85          | 364.85 |
| 71                       | 36.95           | 364.95 |
| HOLLIFIELD SECTION THREE |                 |        |
| 9                        | 34.20           | 34.80  |
| 10                       | 34.60           | 35.20  |
| 11                       | 34.60           | 35.20  |
| 12                       | 343.80          | 348.60 |
| 13                       | 343.80          | 348.60 |
| 14                       | 349.70          | 354.60 |
| 15                       | 354.00          | 359.60 |

| LOT                      | STREET ADDRESS           |
|--------------------------|--------------------------|
| HOLLIFIELD SECTION ONE   |                          |
| 4                        | 2104 Oak Forest Drive    |
| 5                        | 2804 River Terrace Court |
| 6                        | 2806                     |
| 11                       | 2228                     |
| 12                       | 2230                     |
| 13                       | 2232                     |
| 19                       | 2201                     |
| 21                       | 2122 Oak Forest Drive    |
| 22                       | 2122                     |
| 23                       | 2130                     |
| 30                       | 2210 Kaitlins Court      |
| 31                       | 2200                     |
| 32                       | 2200                     |
| 33                       | 2220                     |
| 34                       | 2232                     |
| 39                       | 2228                     |
| 40                       | 2228                     |
| 45                       | 2201                     |
| 47                       | 2163 Oak Forest Drive    |
| 48                       | 2189                     |
| HOLLIFIELD SECTION TWO   |                          |
| 50                       | 2200 Michaels Ridge      |
| 51                       | 2200                     |
| 52                       | 2200                     |
| 53                       | 2212                     |
| 59                       | 2213                     |
| 60                       | 2200                     |
| 62                       | 2200                     |
| 63                       | 2201                     |
| 68                       | 2101 Oak Forest Drive    |
| 69                       | 2157                     |
| 70                       | 2157                     |
| 71                       | 2123                     |
| HOLLIFIELD SECTION THREE |                          |
| 9                        | 2123 Oak Forest Drive    |
| 10                       | 2123                     |
| 11                       | 2123                     |
| 12                       | 2123                     |
| 13                       | 2123                     |
| 14                       | 2123                     |
| 15                       | 2123                     |

PLANNING AND ZONING

*Andy Karamba*  
1/26/01  
DATE

*1/26/01*  
DATE

*1/26/01*  
DATE

# SITE DEVELOPMENT PLAN HOLLIFIELD ESTATES

HOLLIFIELD ESTATES I SECTION ONE  
LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48

HOLLIFIELD ESTATES I SECTION TWO  
LOTS 50-53, 59-60, 62-63 & 68-71

HOLLIFIELD ESTATES II  
LOTS 9-15

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**LEGEND**

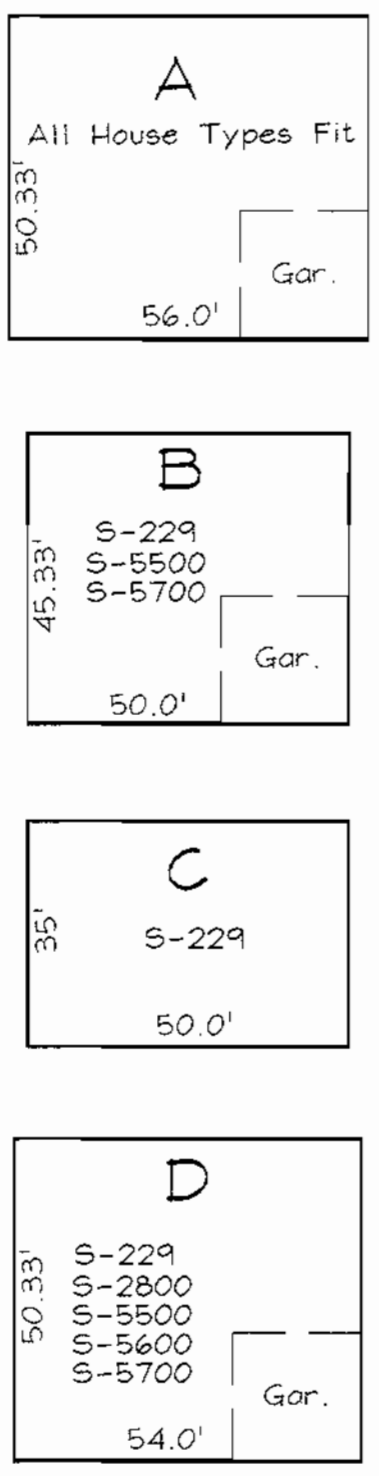
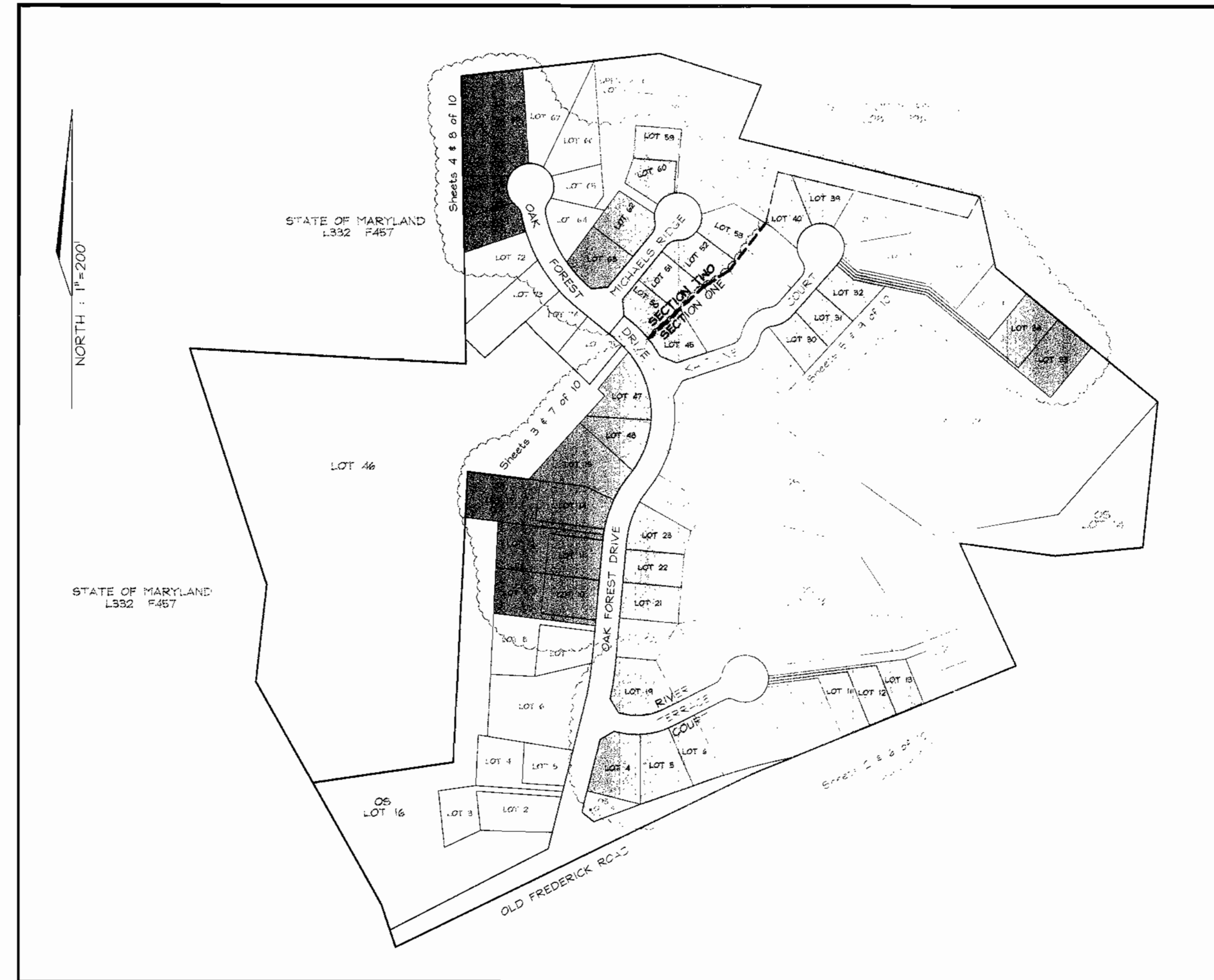
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Flow
- Existing Trees to Remain
- Existing Landscape Trees
- Proposed Landscape Trees
- Light Poles
- Walk Out Basement
- Dry Well
- Fire Hydrant
- Stabilized Construction Entrance
- Silt Fence
- Super Silt Fence
- Limit of Disturbance
- Prop. Erosion Control Matting
- Ex. Erosion Control Matting

**VICINITY MAP**  
SCALE: 1"=2000'

**BENCHMARKS**

7FA N594,849.55 E 1,364,629.52  
7F7 N595,830.83 E 1,363,029.09

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION DIVISION 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:
    - MES UTILITY: 1-800-257-7777
    - BELL ATLANTIC TELEPHONE COMPANY: 1-800-586-4301
    - HOWARD COUNTY BUREAU OF UTILITIES: 313-2246
    - AT&T CABLE LOCATION DIVISION: 393-5555
    - B.G.I.E. CO. CONTRACTOR SERVICES: 850-4620
    - B.G.I.E. CO. UNDERGROUND DAMAGE CONTROL: 787-4620
    - STATE HIGHWAY ADMINISTRATION: 531-5535
  - SITE ANALYSIS:**
    - AREA OF SITE: HOLLIFIELD ESTATES I, SECTION ONE: 44.95 AC
    - HOLLIFIELD ESTATES I, SECTION TWO: 8.43 AC
    - HOLLIFIELD ESTATES II: 11.42 AC
    - AREA OF SUBMISSION: 2.36 AC
    - PRESENT ZONING: R-ED
    - LIMIT OF DISTURBANCE: 933 AC
    - PROPOSED USE OF SITE: SINGLE FAMILY DETACHED DWELLINGS
    - TOTAL NUMBER OF UNITS: 30
  - PROJECT BACKGROUND:**
    - LOCATION: TAX MAP 18 GRID 42 PARCEL 1 & 375
    - ZONING: R-ED per the Comprehensive Zoning Plan dated Oct 18, 1983
    - SUBDIVISION: HOLLIFIELD ESTATES I & II
    - HOLLIFIELD ESTATES I: DPZ REFERENCES: F-99-75, F-99-76, F-99-16, F-99-11, F-99-61 & WP-99-39, F-00-50
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION DIVISION 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 INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - ALL DRIVEWAY APPROX. SHALL BE PER HOWARD COUNTY STANDARD DETAILS R-6.01, R-6.03, R-6.05 & R-6.06 AS SPECIFIED ON PLAN.
  - 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 ON SOILS TEST.
  - STORMWATER MANAGEMENT IS PROVIDED BY AN ON-SITE EXTENDED DETENTION POND APPROVED UNDER PERMITS. THE FACILITY IS TO BE PRIVATELY OWNED AND JOINTLY MAINTAINED BY HOWARD COUNTY AND THE SUBDIVISION. DRY WELLS WILL BE PROVIDED FOR ALL LOTS THAT DO NOT DRAIN TO THE STORMWATER MANAGEMENT FACILITY.
  - COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENT NO. 7FA & NO. 7F7.
  - EXISTING TOPOGRAPHY IS BASED ON AERIAL PHOTOGRAPHIC SURVEY PREPARED BY KING'S AERIAL MAPPING CO., INC. FLOWN ON MARCH 25, 1996.
  - SEWER CONTRACT NO. 14-3801-D & 14-3802-D
  - WATER CONTRACT NO. 14-3801-D & 14-3802-D
  - PERIMETER LANDSCAPING FOR SECTION 1 (F-99-75) AND SECTION 2 (F-99-76) HAS BEEN FULFILLED THROUGH THE RETENTION OF EXISTING VEGETATION AND SUPPLEMENTAL PLANTINGS. SEE SHEET 2 FOR LANDSCAPING SURETY REQUIREMENTS FOR LOTS 4, 19, 45, 50 AND 63.
  - OPEN SPACE REQUIREMENTS FOR THE SUBDIVISION HAVE BEEN PROVIDED UNDER F-99-75, F-99-76 & F-99-19.
  - FOREST CONSERVATION OBLIGATIONS HAVE BEEN FULFILLED BY ESTABLISHMENT OF FOREST CONSERVATION EASEMENTS UNDER F-99-75, F-99-76 & F-99-39.
  - NO CONSTRUCTION OR GRADING IS PERMITTED WITHIN WETLANDS, STREAMS OR THEIR BUFFERS AND PINNACLED CONSERVATION AREAS.
  - IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, PORCHES 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 SETBACKS.
  - FOR USE-IN-COMMON DRIVE DETAILS AND SPECIFICATIONS SEE SHEET 10 OF 10 AND F-99-75 AND F-99-76.



LOCATION MAP  
SCALE: 1"=200'

**OWNER/DEVELOPER**  
BEAZER HOMES  
8965 GUILFORD ROAD, SUITE 290  
COLUMBIA, MARYLAND 21046  
410-720-5071  
ATTN: JOE FORTINO

| SUBDIVISION NAME      | SECTION/AREA | LOT/PARCEL #   |          |              |            |
|-----------------------|--------------|--|----------|--------------|------------|
| HOLLIFIELD ESTATES I  | SECTION ONE  | LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48 |          |              |            |
| HOLLIFIELD ESTATES I  | SECTION TWO  | LOTS 50-53, 59-60, 62-63 & 68-71                       |          |              |            |
| HOLLIFIELD ESTATES II | -            | LOTS 9-15  |          |              |            |
| PLAT NO.              | BLOCK NO.    | ZONE   | TAX/ZONE | ELECT. DIST. | CENSUS TR. |
| 14378 thru 14385      | 1 & 2        | R-ED   | 18       | 2ND          | 6021       |
| 14418 thru 14415      |              |  |          |              |            |
| 14432 thru 14435      |              |  |          |              |            |
| 14605                 |              |  |          |              |            |
| WATER CODE            | F-01         | SEWER CODE   | 1460000  |              |            |

**COVER SHEET  
HOLLIFIELD ESTATES**

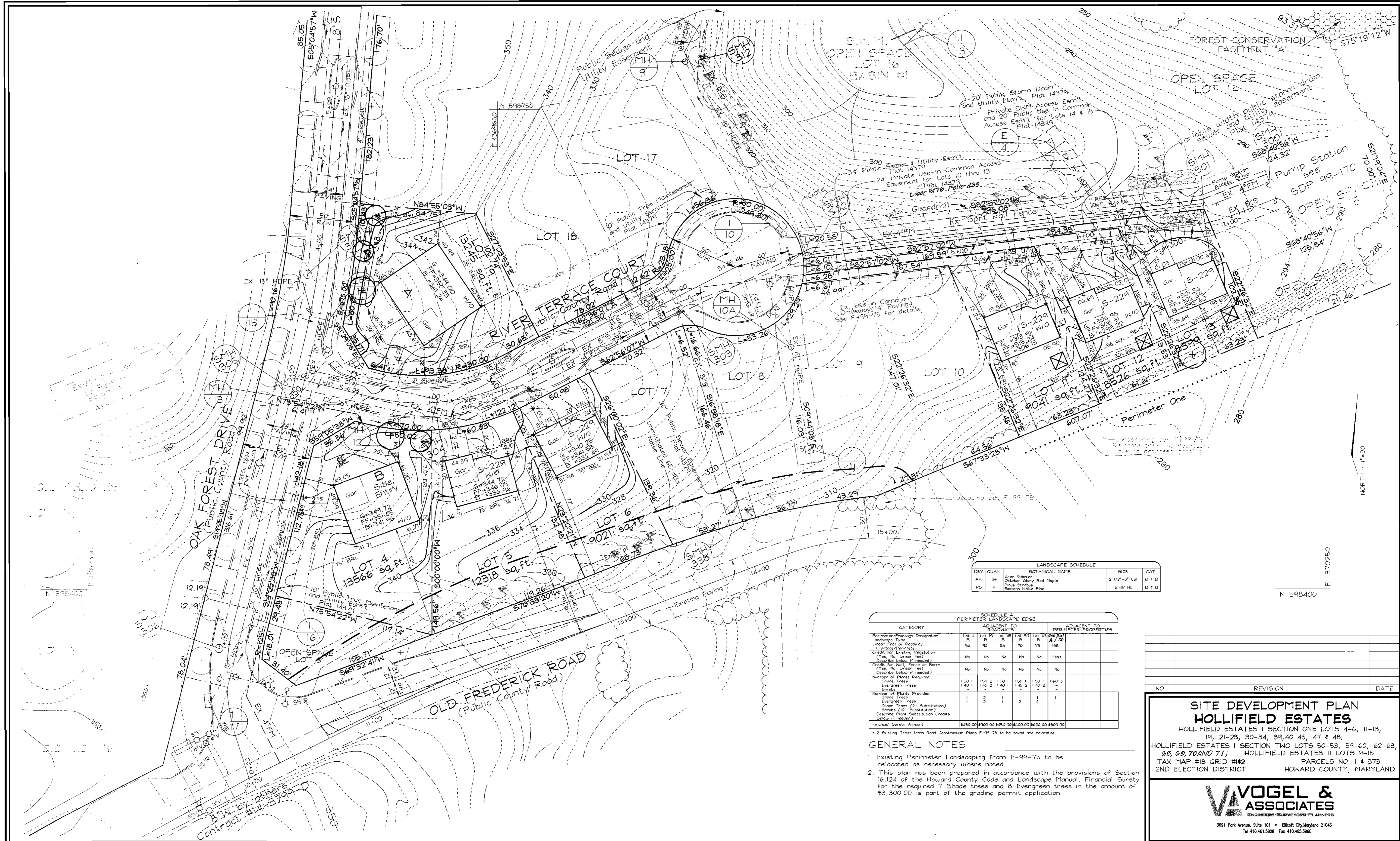
HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15

TAX MAP #18 GRID #102 PARCELS NO. 1 & 375  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
ENGINEERS/SURVEYORS/PLANNERS  
3591 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
Tel 410.461.5828 Fax 410.465.3966

DESIGN BY: GAH  
DRAWN BY: GAH  
CHECKED BY: RHY  
DATE: August 17, 2000  
SCALE: AS SHOWN  
W.O. NO.: 99-129

1 SHEET OF 10



LANDSCAPE SCHEDULE

| KEY | QUAN. | BOTANICAL NAME | SIZE             | CAT.  |
|-----|-------|----------------|------------------|-------|
| AR  | 26    | Acer Rubrum    | 2 1/2" - 3" Cal. | B & B |
| PD  | 4     | Pinus strobus  | 6" - 8" H.       | B & B |

SCHEDULE A  
PERIMETER LANDSCAPE EDGE

| CATEGORY   | ADJACENT TO ROADWAYS |          |          |          | ADJACENT TO PERIMETER PROPERTIES |          |        |        |        |
|--|----------------------|----------|----------|----------|----------------------------------|----------|--------|--------|--------|
|  | Lot 4                | Lot 5    | Lot 6    | Lot 7    | Lot 8                            | Lot 9    | Lot 10 | Lot 11 | Lot 12 |
| Perimeter/Frontage Designation   | B                    | B        | B        | B        | B                                | B        | B      | B      | B      |
| Linear Feet of Roadway Frontage/Perimeter  | 56                   | 90       | 38       | 70       | 78                               | 106      |        |        |        |
| Credits for Existing Vegetation (Yes, No, Linear Feet Describe below if needed)    | No                   | No       | No       | No       | No                               | Yes*     |        |        |        |
| Credits for Walls, Fences or Berms (Yes, No, Linear Feet Describe below if needed) | No                   | No       | No       | No       | No                               | No       |        |        |        |
| Number of Plants Required  | 150                  | 150      | 2        | 150      | 150                              | 150      | 140    | 3      |        |
| Shade Trees  | 140                  | 140      | 2        | 140      | 140                              | 140      | 2      |        |        |
| Evergreen Trees  |                      |          |          |          |                                  |          |        |        |        |
| Number of Plants Provided  | 1                    | 2        | 1        | 1        | 1                                | 1        | 1      |        |        |
| Shade Trees  | 1                    | 2        | 1        | 1        | 1                                | 1        |        |        |        |
| Evergreen Trees  |                      |          |          |          |                                  |          |        |        |        |
| Other Trees (2) (Substitution)   |                      |          |          |          |                                  |          |        |        |        |
| Shrubs (10) (Substitution)   |                      |          |          |          |                                  |          |        |        |        |
| Describe Plant Substitution Credits Below if needed                                |                      |          |          |          |                                  |          |        |        |        |
| Financial Surety Amount  | \$450.00             | \$900.00 | \$450.00 | \$600.00 | \$600.00                         | \$300.00 |        |        |        |

- GENERAL NOTES
- Existing Perimeter Landscaping from F-99-75 to be relocated as necessary where noted.
  - This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual. Financial Surety for the required 7 Shade trees and 8 Evergreen trees in the amount of \$3,300.00 is part of the grading permit application.

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

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #42 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3366

DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

2 SHEET OF 10

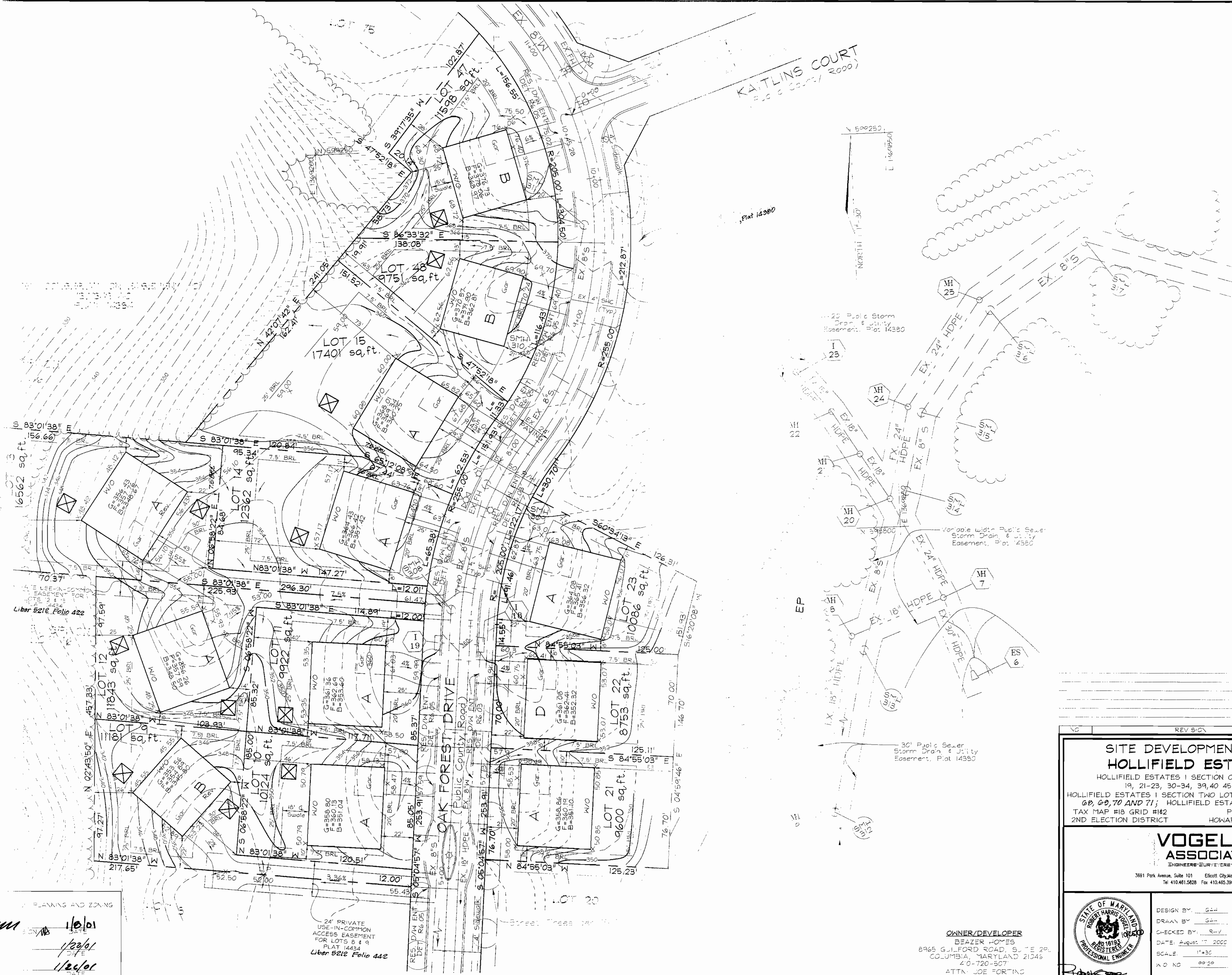
APPROVED - HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Wally Dammann* 1/16/01  
 CHIEF DEVELOPER REVIEWER DATE

*Cindy Hanada* 1/23/01  
 CHIEF DIVISION OF PLANNING AND ZONING DATE

*Joseph J. Smith* 1/23/01  
 DIRECTOR DATE

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



[Signature] 1/6/01  
 Cindy Hancock 1/29/01  
 [Signature] 1/24/01

24' PRIVATE  
 USE-IN-COMMON  
 ACCESS EASEMENT  
 FOR LOTS 8 & 9  
 PLAT 14434  
 Liber 8212 Folio 442

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
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 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

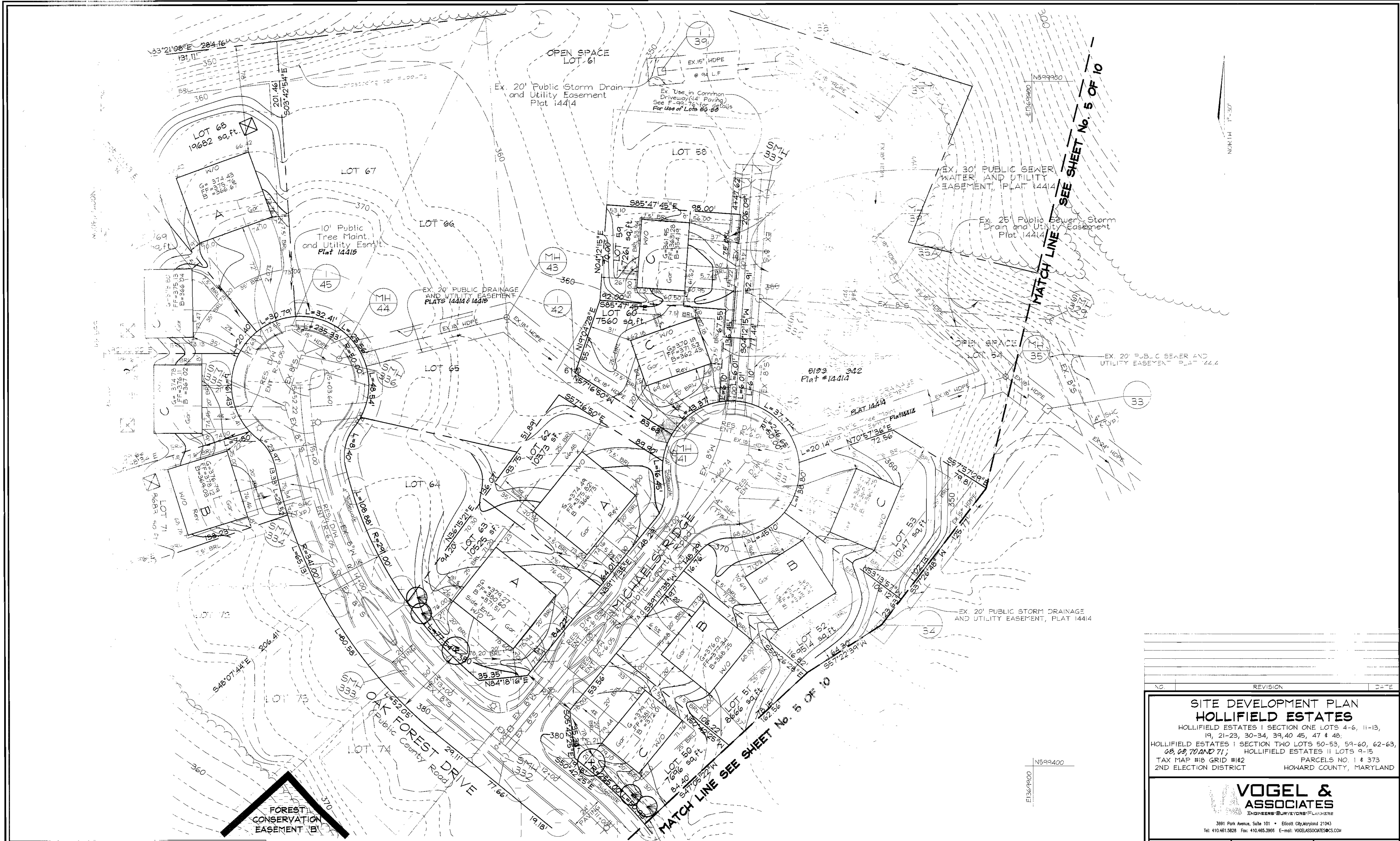
**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS & ARCHITECTS  
 3681 Park Avenue, Suite 101 Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3966

DESIGN BY: GLL  
 DRAWN BY: GLL  
 CHECKED BY: R-V  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 NO NO 00 20

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, S. TE 20,  
 COLUMBIA, MARYLAND 21046  
 410-720-5077  
 ATTN: JOE FORTING

STATE OF MARYLAND  
 ROBERT HARRIS JUDGE  
 15191  
 REGISTERED  
 PROFESSIONAL ENGINEER

3 10



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

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48,  
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 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS • SURVEYORS • PLANNERS  
 3891 Park Avenue, Suite 101 • Elliott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3966 E-mail: VOGELASSOCIATES@PCS.COM

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
|                  | DESIGN BY: GAL        | 4 OF 10<br>SDP-00-080 |
|                  | DRAWN BY: TR/GA       |                       |
|                  | CHECKED BY: RLV       |                       |
|                  | DATE: August 17, 2000 |                       |
| SCALE: 1"=30'    |                       | 4 OF 10<br>SDP-00-080 |
| N.O. NO.: 99-129 |                       |                       |

DEPARTMENT OF PLANNING AND ZONING

*Chela Dammann* 1/8/01  
 DATE

*Caroly Hander* 1/23/01  
 DATE

*Jay S. Smith* 1/26/01  
 DATE

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GULFORD ROAD, SUITE 200  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John Damman* 1/20/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 1/22/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Paul Smith* 1/26/01  
 DIRECTOR DATE

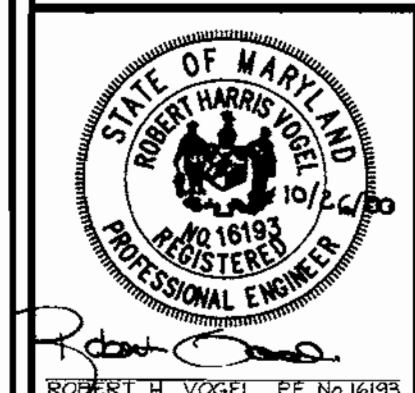
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**SITE DEVELOPMENT PLAN  
 HOLLIFIELD ESTATES**

HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
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 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL &  
 ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410-461-5828 Fax 410-465-3986



DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



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

**SEDIMENT & EROSION CONTROL PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
 19, 21-23, 30-34, 39, 40 45, 47 & 48;  
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 TAX MAP #18 GRID #1#2 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3091 Park Avenue, Suite 101 • Elliott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3986



DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHY  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

6 SHEET OF 10

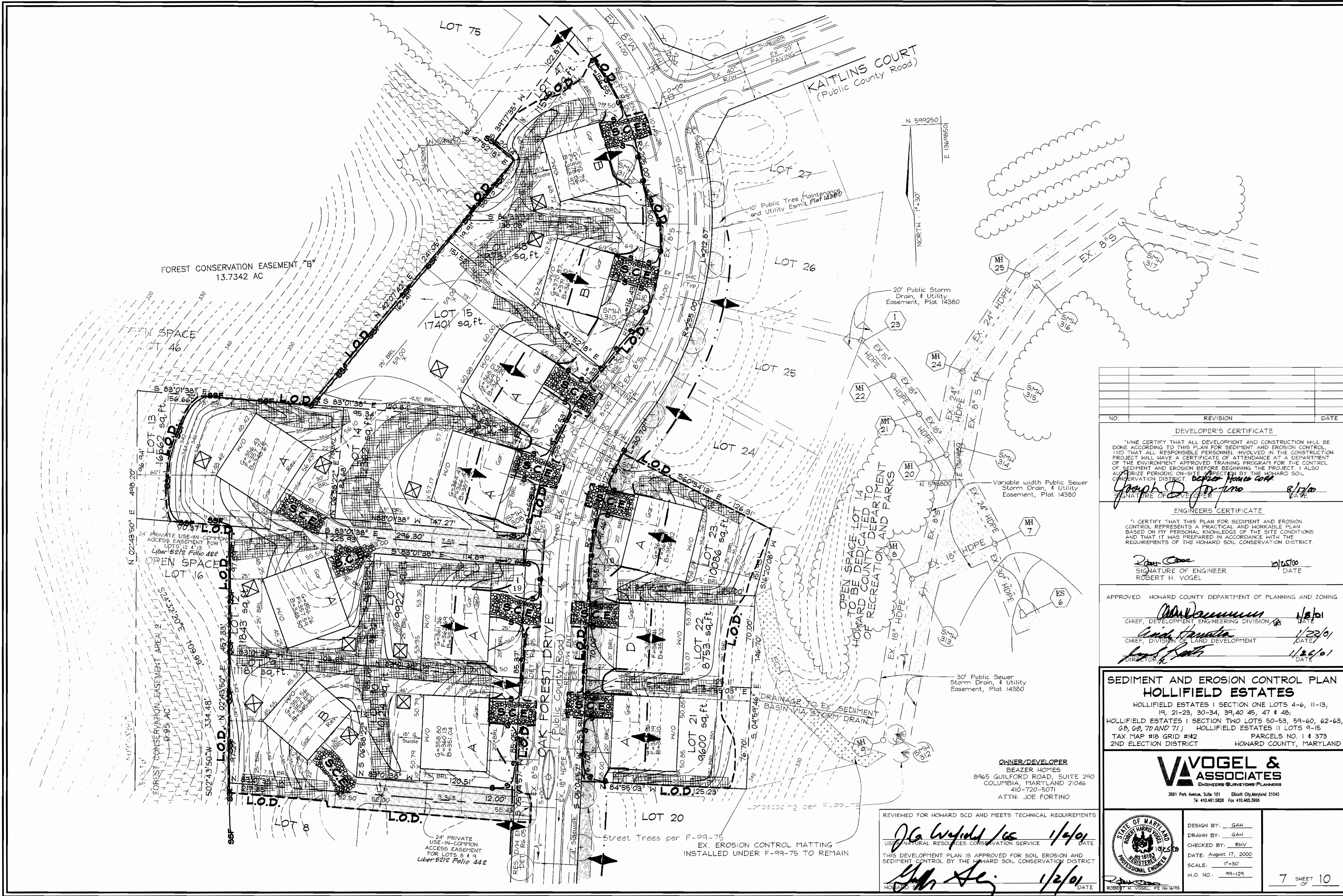
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Chris DeMunn* 1/6/01  
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE  
*Janice Hamilton* 1/20/01  
 CHIEF DIVISION OF LAND DEVELOPMENT DATE  
*John S. Smith* 1/20/01  
 DIRECTOR DATE

**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."  
*Robert H. Vogel* 10/25/00  
 SIGNATURE OF ENGINEER DATE  
 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 AUTORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
*Joe Fortino* 11/6/00  
 SIGNATURE OF DEVELOPER DATE  
 BEAZER HOMES CORP.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
*J.G. Wapfield* 1/2/01  
 USED/NATURAL RESOURCES CONSERVATION SERVICE DATE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John S. Smith* 1/2/01  
 HOWARD SCD DATE

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



| NO. | REVISION | DATE |
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**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.

*Joseph D. DeJure* 8/17/00  
 SIGNATURE OF DEVELOPER DATE

**ENGINEER'S 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.

*Robert H. Vogel* 10/25/00  
 SIGNATURE OF ENGINEER DATE  
 ROBERT H. VOGEL

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John W. ...* 1/8/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chris ...* 1/22/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Frank ...* 1/26/01  
 DIRECTOR DATE

**SEDIMENT AND EROSION CONTROL PLAN  
 HOLLIFIELD ESTATES**

HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 Ellicott City, Maryland 21043  
 Tel: 410-461-5628 Fax: 410-465-3956

DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

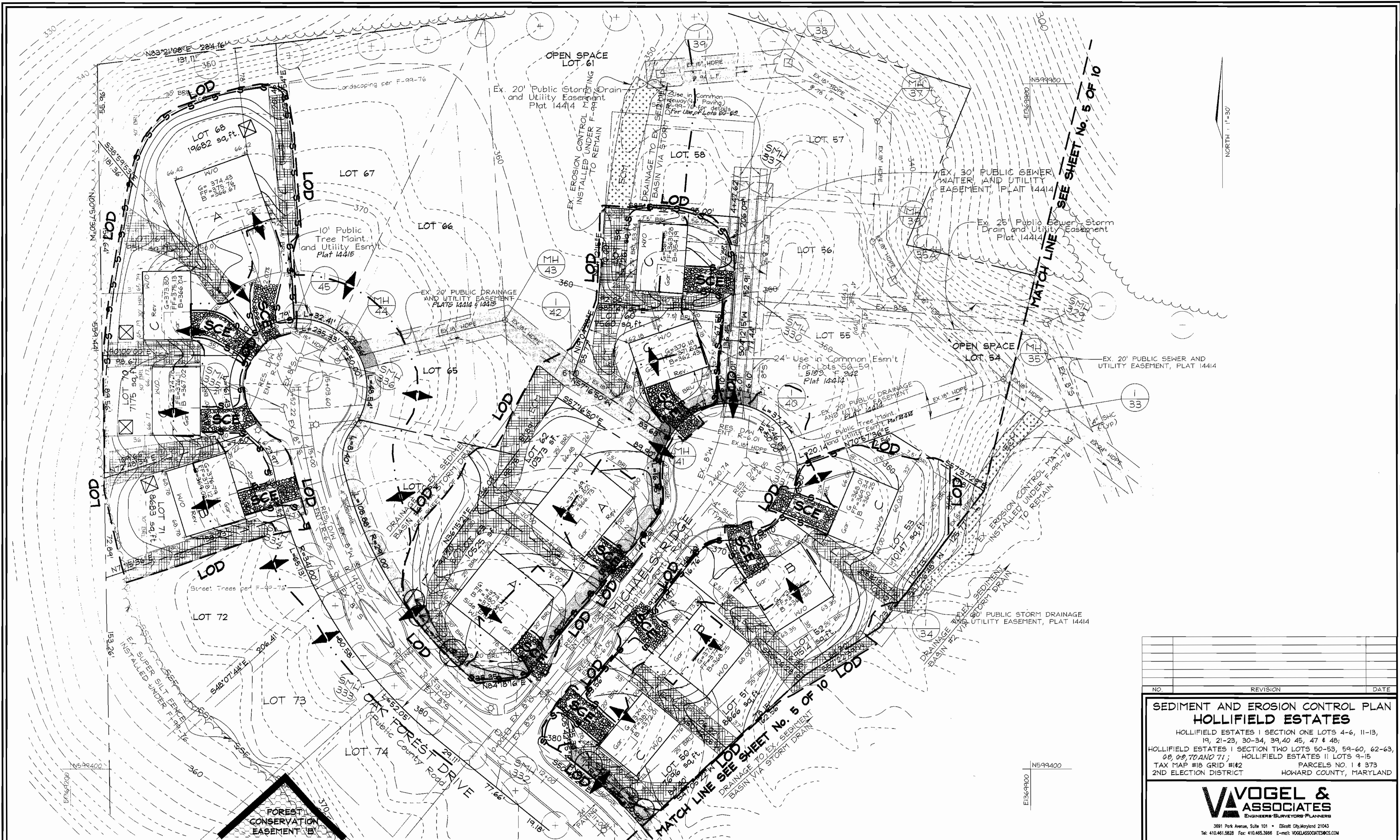
7 SHEET OF 10

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

*Joe Fortino* 1/2/01  
 USFS NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*Joe Fortino* 1/2/01  
 HOWARD COUNTY ENGINEER DATE

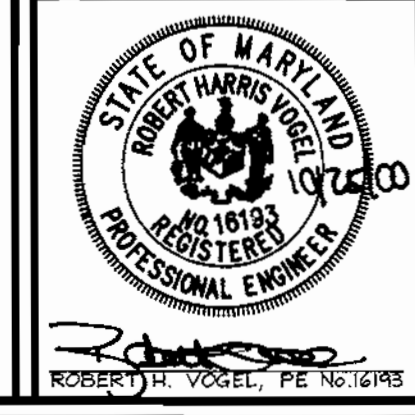


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**SEDIMENT AND EROSION CONTROL PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #42 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS PLANNERS

3591 Park Avenue, Suite 101 • Elkott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3986 E-mail: VOGEL@ASSOCIATES.COM



DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

8 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Chad Dammann* 1/8/01  
 CHIEF DEVELOPMENT ENGINEERING DIVISION /S/ DATE  
*Conrad Hamrick* 1/22/01  
 CHIEF DIVISION OF LAND DEVELOPMENT DATE  
*John R. Rutter* 1/26/01  
 DIRECTOR DATE

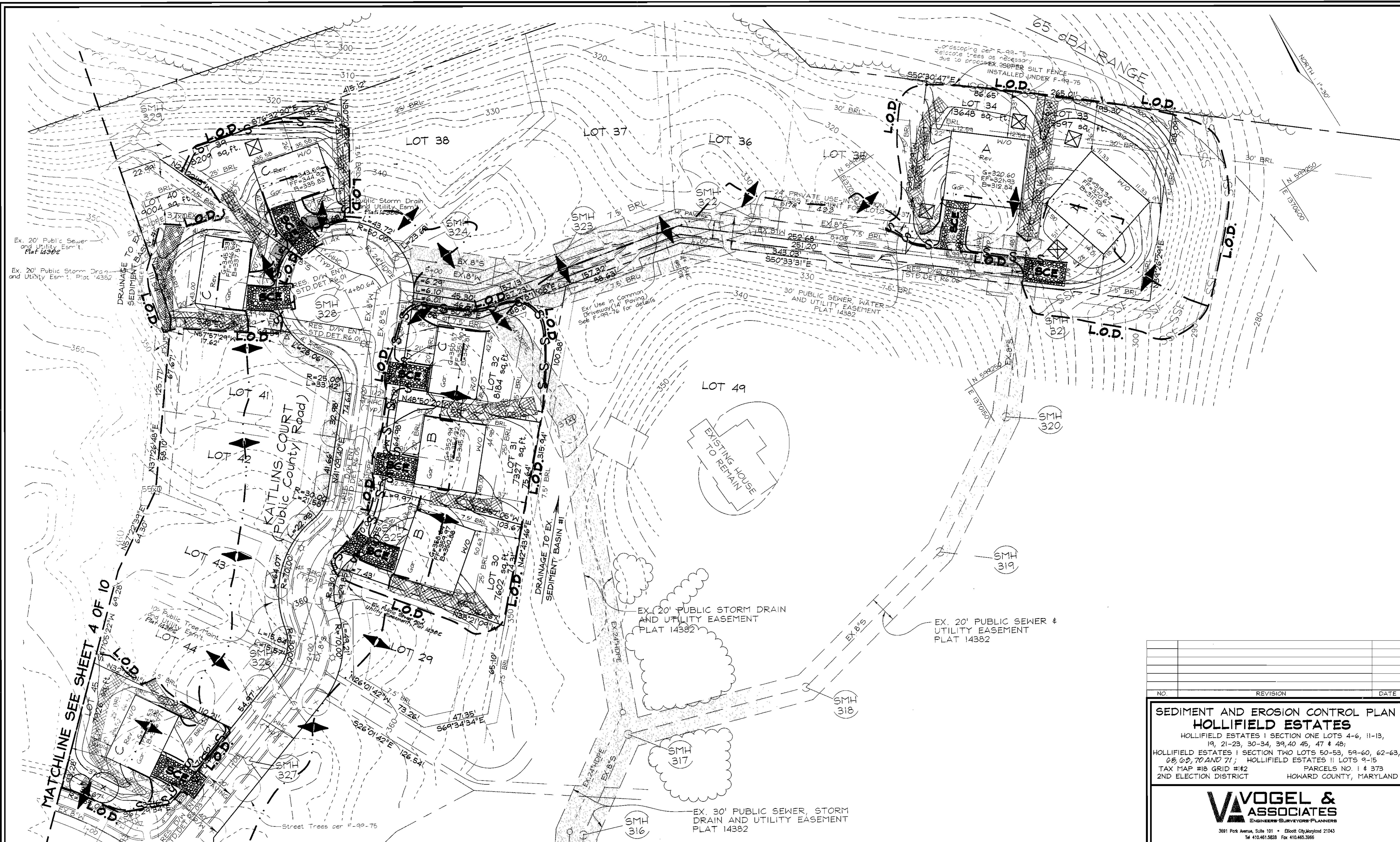
**ENGINEERS CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Robert H. Vogel* 1/17/00  
 SIGNATURE OF ENGINEER DATE  
 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 THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AGREE TO PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Joseph D. DeFino* 8/16/00  
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
*J. G. Crawford /cs* 1/2/01  
 US NATURAL RESOURCES CONSERVATION SERVICE DATE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John A. Sig* 1/2/01  
 HOWARD SCD DATE

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO





APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Chris Daum* 1/26/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chris Hamilton* 1/26/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Greg Smith* 1/26/01  
 DIRECTOR DATE

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."

*Robert H. Vogel* 1/25/00  
 SIGNATURE OF ENGINEER DATE  
 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."

*Beazer Homes Corp.* 2/17/00  
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

*J.G. Wainwright* 1/26/01  
 USFS NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*Robert H. Vogel* 1/26/01  
 HOWARD SCD DATE

OWNER/DEVELOPER

BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

| NO. | REVISION | DATE |
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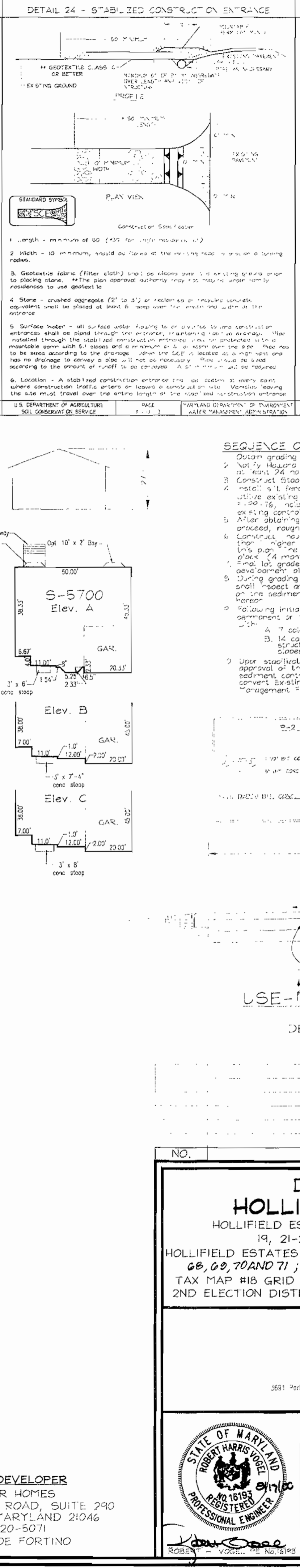
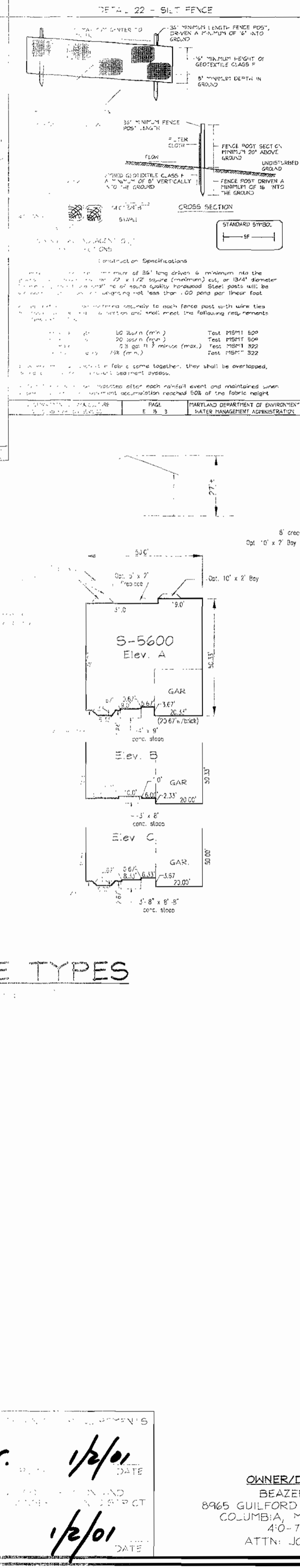
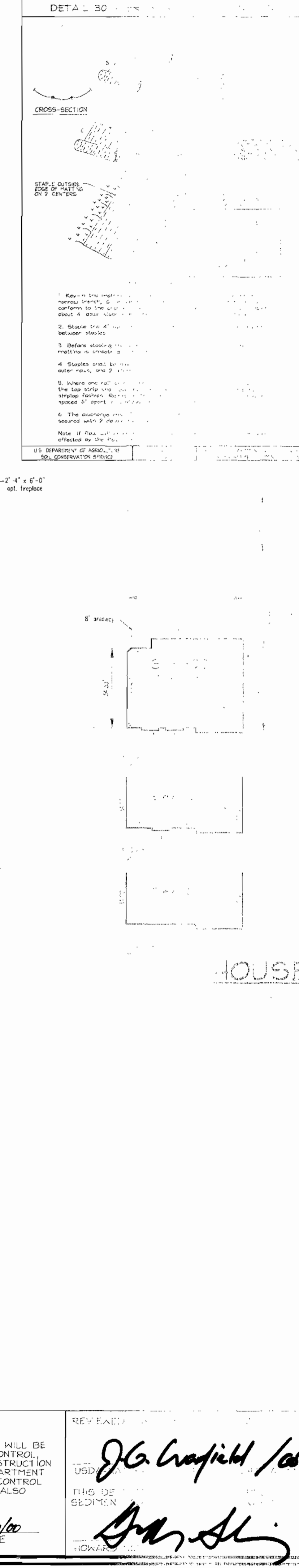
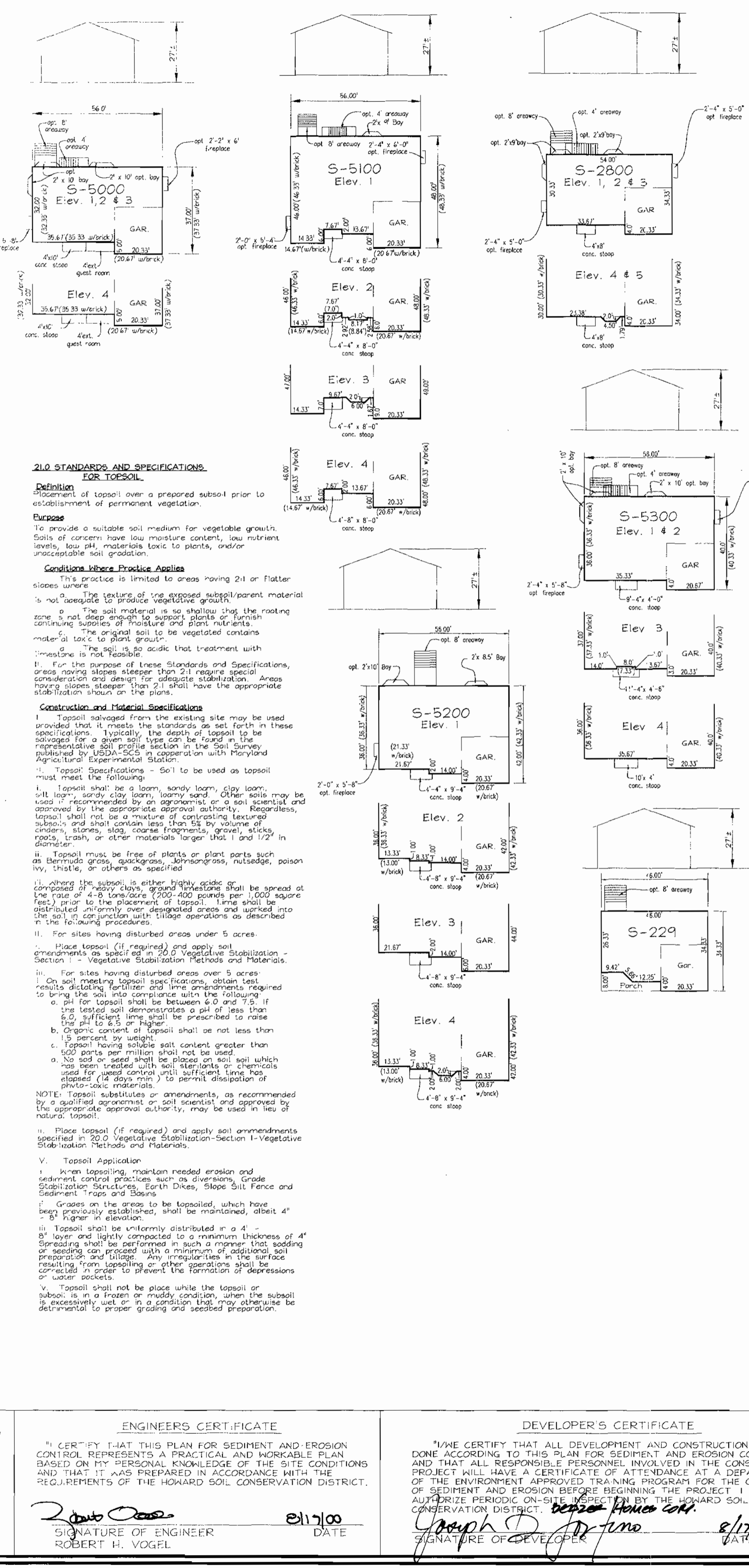
SEDIMENT AND EROSION CONTROL PLAN  
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 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #182 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS PLANNERS  
 3681 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3966

DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

9 SHEET OF 10

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**SEQUENCE OF CONSTRUCTION**

1. Obtain grading permit.
2. Notify Howard County Bureau of Inspections and Plan Review (HCBIR) at least 24 hours before starting any work.
3. Construct stabilized construction entrances.
4. Install a 1/2" silt fence and erosion control matting along the existing perimeter controls.
5. After obtaining permission from the sediment control engineer, proceed rough grade site (4 days).
6. Commence work on the first floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
7. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
8. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
9. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
10. A 7 calendar days for all perimeter sediment control matting to be installed.
11. Commence work on the second floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
12. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
13. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
14. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
15. Commence work on the third floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
16. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
17. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
18. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
19. Commence work on the fourth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
20. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
21. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
22. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
23. Commence work on the fifth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
24. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
25. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
26. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
27. Commence work on the sixth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
28. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
29. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
30. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
31. Commence work on the seventh floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
32. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
33. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
34. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
35. Commence work on the eighth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
36. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
37. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
38. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
39. Commence work on the ninth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
40. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
41. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
42. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
43. Commence work on the tenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
44. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
45. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
46. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
47. Commence work on the eleventh floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
48. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
49. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
50. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
51. Commence work on the twelfth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
52. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
53. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
54. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
55. Commence work on the thirteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
56. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
57. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
58. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
59. Commence work on the fourteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
60. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
61. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
62. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
63. Commence work on the fifteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
64. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
65. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
66. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
67. Commence work on the sixteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
68. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
69. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
70. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
71. Commence work on the seventeenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
72. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
73. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
74. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
75. Commence work on the eighteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
76. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
77. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
78. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
79. Commence work on the nineteenth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
80. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
81. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
82. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
83. Commence work on the twentieth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
84. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
85. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
86. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
87. Commence work on the twenty-first floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
88. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
89. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
90. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
91. Commence work on the twenty-second floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
92. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
93. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
94. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
95. Commence work on the twenty-third floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
96. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).
97. During grading and other earth handling, the contractor shall install and provide the necessary maintenance on the sediment and erosion control matting.
98. After obtaining permission from the sediment control engineer, commence permanent or temporary stabilization shall be completed.
99. Commence work on the twenty-fourth floor elevation control matting. The foundation footprint must be within the 1/2" silt fence.
100. Final rough grade to be in substantial conformance with the approved rough grade plan (2 days).

**HOUSE TYPES**

**USE-N-COMMON DR/V**

**TYPICAL SECTION DESIGN SPEED 15 MPH**

NOT TO SCALE

Howard County Standard Type P-2 Pavement Section

**PLANNING AND ZONING**

**ENGINEER'S CERTIFICATE**

I hereby 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.

DATE: 1/21/01

ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**

I hereby 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.

DATE: 1/21/01

ROBERT H. VOGEL

**REVISIONS**

| NO. | REVISION | DATE    |
|-----|----------|---------|
| 1   | As Shown | 1/21/01 |

**OWNER/DEVELOPER**

BEAZER HOMES

8965 GUILFORD ROAD, SUITE 290

COLUMBIA, MARYLAND 21046

410-720-5071

ATTN: JOE FORTINO

**DESIGN BY:** GA

**DRAWN BY:** GA

**CHECKED BY:** RHY

**DATE:** August 17, 2000

**SCALE:** As Shown

**NO. OF SHEETS:** 03-29

**STATE OF MARYLAND**

**ROBERT HARRIS**

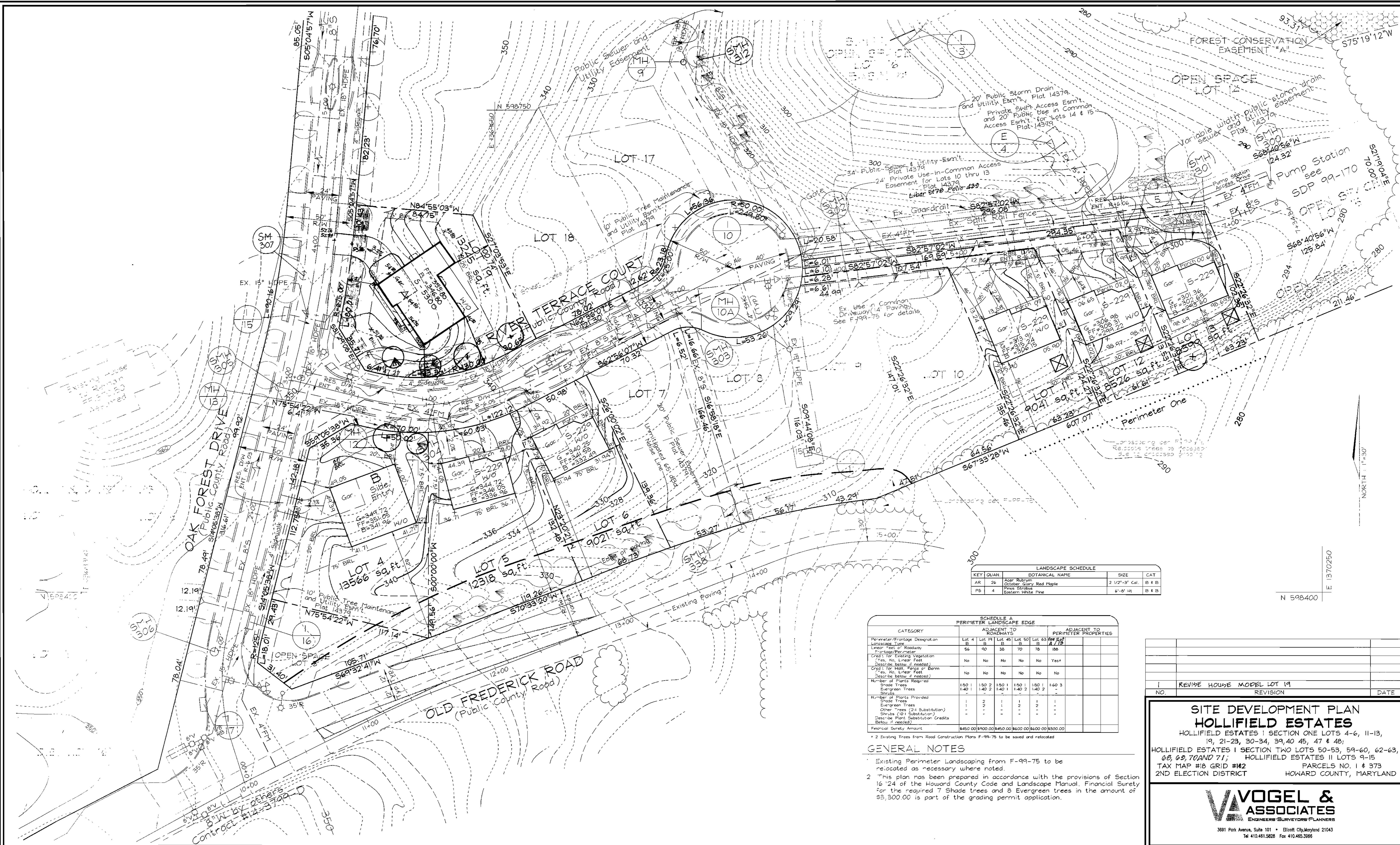
**REGISTERED PROFESSIONAL ENGINEER**

1951 Park Avenue, Suite 101 • Ellicott City, Maryland 21043

410-481-3828 Fax 410-481-3956

**10 SHEET OF 10**





| KEY QUAN | BOTANICAL NAME        | SIZE           | CAT   |
|----------|-----------------------|----------------|-------|
| AR 26    | Asplenium Platyneuron | 2 1/2'-3' Col. | B # B |
| PB 4     | Pinus strobus         | 6'-8' Ht.      | B # B |

| CATEGORY  | ADJACENT TO ROADWAYS |          |          |          |          | ADJACENT TO PERIMETER PROPERTIES |           |
|---|----------------------|----------|----------|----------|----------|----------------------------------|-----------|
|   | Lot 4                | Lot 5    | Lot 6    | Lot 10   | Lot 11   | Lot 12                           | Total     |
| Perimeter/Frontage Description                      | Lot 4                | Lot 5    | Lot 6    | Lot 10   | Lot 11   | Lot 12                           |           |
| Perimeter/Frontage Description                      | 56                   | 90       | 38       | 70       | 78       | 188                              |           |
| Linear Feet of Roadway                              |                      |          |          |          |          |                                  |           |
| Linear Feet of Perimeter                            |                      |          |          |          |          |                                  |           |
| Grade for Existing Vegetation                       | No                   | No       | No       | No       | No       | Yes                              |           |
| Grade for New Plantings                             | No                   | No       | No       | No       | No       | No                               |           |
| Grade for New Plantings                             | No                   | No       | No       | No       | No       | No                               |           |
| Number of Plants Required                           | 150                  | 150      | 150      | 150      | 150      | 150                              | 3         |
| Number of Plants Provided                           | 140                  | 140      | 140      | 140      | 140      | 140                              | -         |
| Shade Trees   | 1                    | 2        | 1        | 1        | 1        | 1                                |           |
| Evergreen Trees                                     | 1                    | 2        | 1        | 1        | 1        | 1                                |           |
| Other Trees (2:1 Substitution)                      | 1                    | 2        | 1        | 1        | 1        | 1                                |           |
| Shrubs (10:1 Substitution)                          | 1                    | 2        | 1        | 1        | 1        | 1                                |           |
| Describe Plant Substitution Credits Below if needed |                      |          |          |          |          |                                  |           |
| Financial Surety Amount                             | \$450.00             | \$900.00 | \$450.00 | \$600.00 | \$600.00 | \$600.00                         | \$3000.00 |

**GENERAL NOTES**

- Existing Trees from Road Construction Plans F-99-75 to be saved and relocated.
- Existing Perimeter Landscaping from F-99-75 to be relocated as necessary where noted.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual. Financial Surety for the required 7 Shade trees and 8 Evergreen trees in the amount of \$3,300.00 is part of the grading permit application.

| NO | REVISION                  | DATE |
|----|---------------------------|------|
| 1  | REVISE HOUSE MODEL LOT 19 |      |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40 45, 47 & 48;  
 HOLLIFIELD ESTATES II SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71;  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS PLANNERS  
 3691 Park Avenue, Suite 101 • Elliott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3986

|                       |                       |
|-----------------------|-----------------------|
| DESIGN BY: GAH        | DATE: August 17, 2000 |
| DRAWN BY: TR/GAH      | SCALE: 1"=30'         |
| CHECKED BY: RHY       | W.O. NO.: 99-129      |
| DATE: August 17, 2000 |                       |

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Wanda Dammicus* 11/21/01  
 CHIEF OF PERMITS ENGINEERING & SIGNATURE DATE

*Cindy Hamble* 11/22/01  
 CHIEF OF ZONING AND DEVELOPMENT DATE

*Joseph T. Smith* 11/22/01  
 CHIEF OF PLANNING DATE

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Mr. Damman* 1/20/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamner* 1/20/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Paul Smith* 1/26/01  
 DIRECTOR DATE

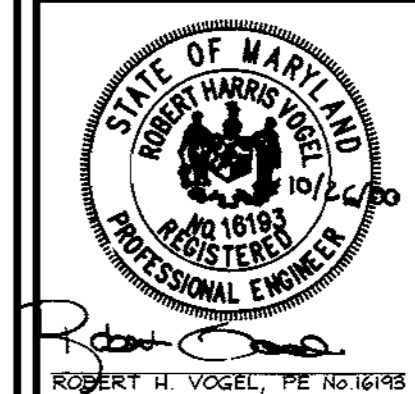
OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

| NO. | REVISION                 | DATE     |
|-----|--------------------------|----------|
| 1   | REVISE HOUSE TYPE LOT 45 | 12/19/01 |

**SITE DEVELOPMENT PLAN  
 HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
 19, 21-23, 30-34, 39, 40 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63,  
 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #1#2 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL &  
 ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3996



DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

5 SHEET OF 10

1. The applicant shall submit a copy of this plan to the Planning and Zoning Commission for their review and comment. The Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision. The Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision. The Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

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### 210 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

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

**Exposes**  
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**  
1. This practice is limited to areas having 2:1 or flatter slopes where:  
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.  
b. The soil material is so shallow that the rooting zone is not deep enough to support plants of sufficient size to produce adequate soil structure and nutrient supplies.  
c. The original soil to be vegetated contains material toxic to plant growth.  
2. The soil is so acidic that treatment with limestone is not feasible.

3. 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.

#### Construction and Material Specifications

Topsoil salvaged from the existing site may be used provided that it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged shall be determined by a soil scientist using a representative soil profile section in the Soil Survey conducted by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

Topsoil Specifications - Soil to be used as topsoil must meet the following:

1. 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 soil scientist approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textures, sands, silts, clays, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.

2. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, johnsongrass, nutgrass, poison ivy, thistle, or others as specified.

3. If the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (2000-4000 pounds per 1000 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:

4. For sites having disturbed areas under 5 acres:  
a. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.  
b. For sites having disturbed areas over 5 acres:  
i. On soil meeting topsoil specifications, obtain test results indicating fertilizer and lime amendments required to bring the soil into compliance with the following:  
a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.  
b. Organic content of topsoil shall be not less than 1.5 percent by weight.  
c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.  
d. No top or seed shall be placed on soil soil which has been treated with soil sterilization chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

NOTE: Topsoil substitutes 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.

5. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and Materials.

6. Topsoil Application

a. 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.  
b. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" or higher in elevation.  
c. Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4".  
d. 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.  
e. Topsoil shall not be placed while 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 seedling preparation.

7. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

8. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

9. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

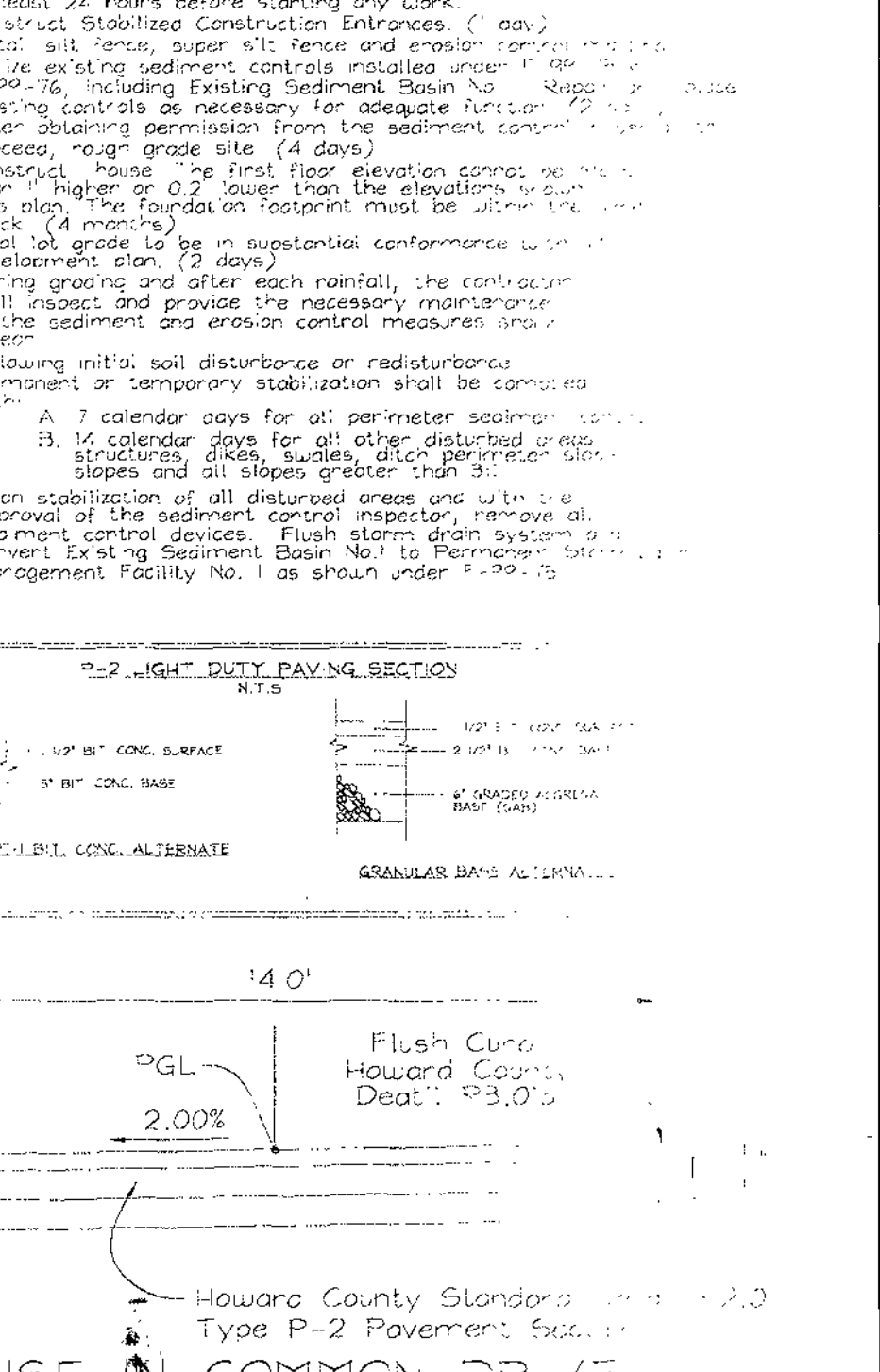
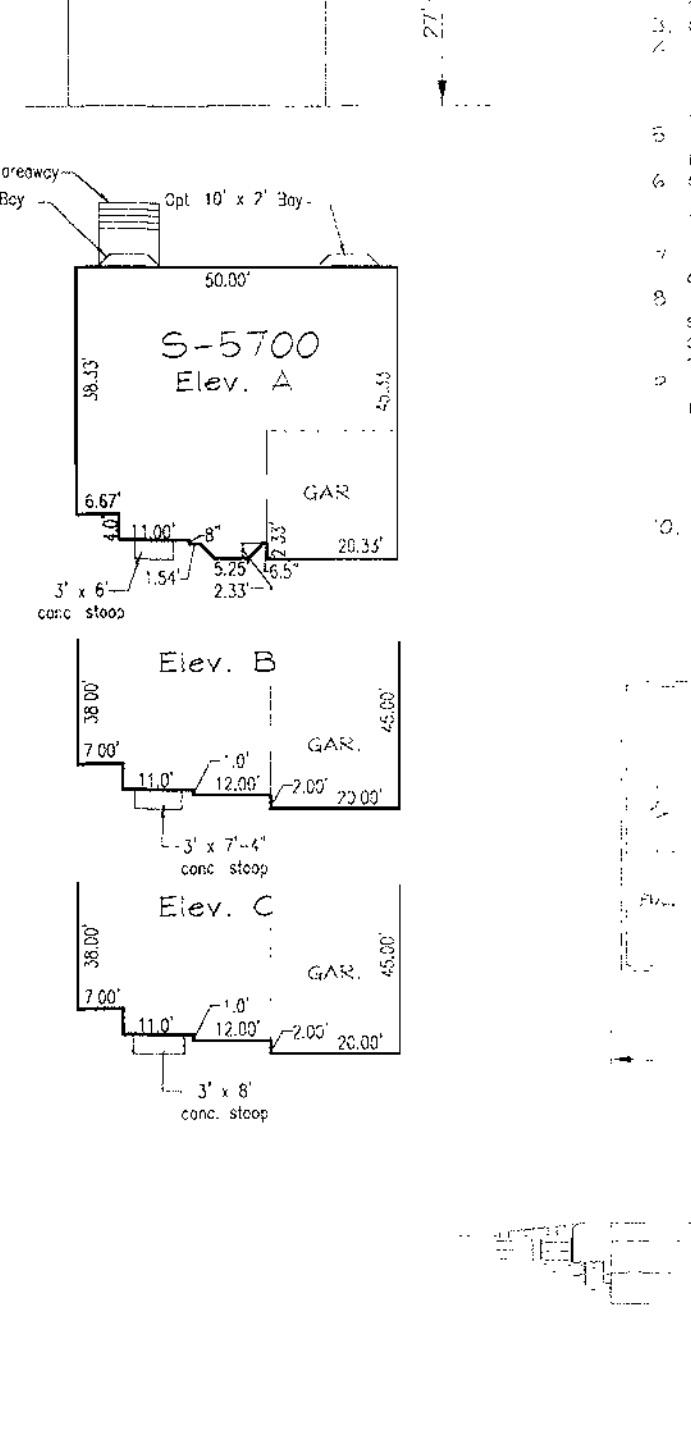
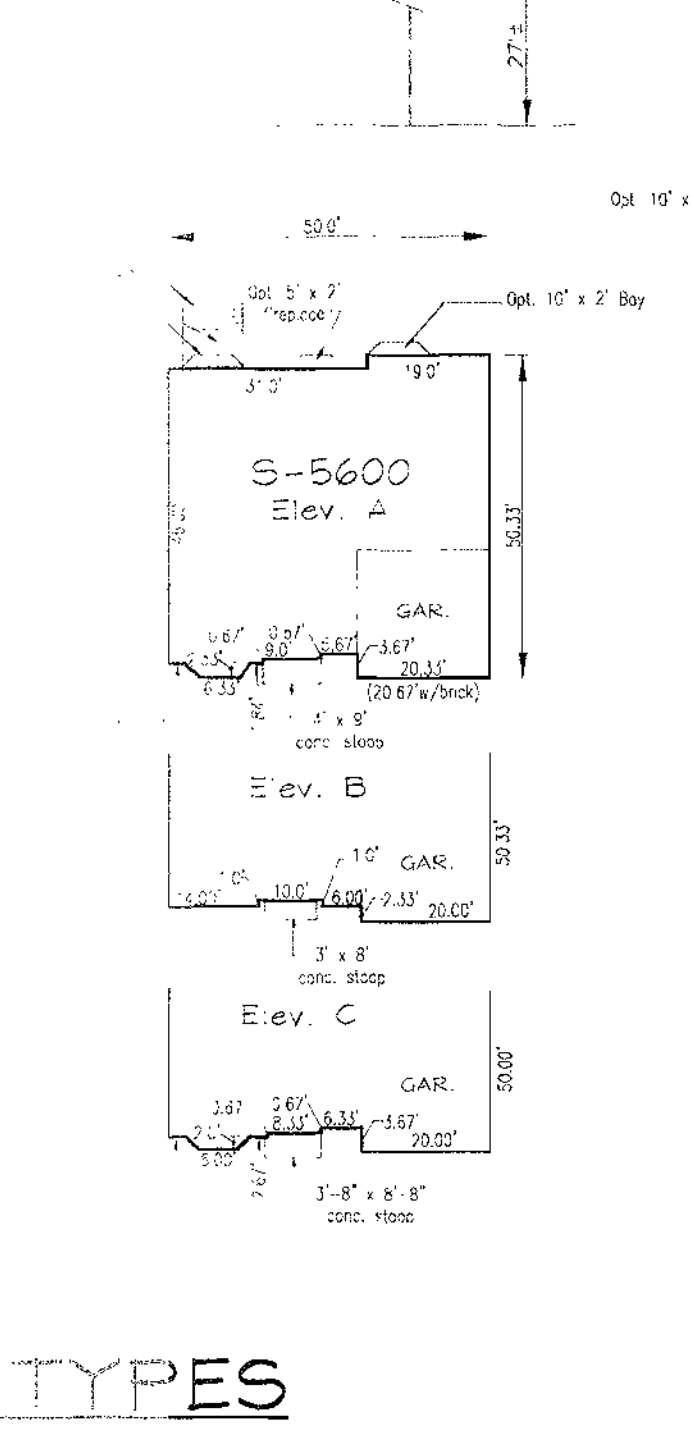
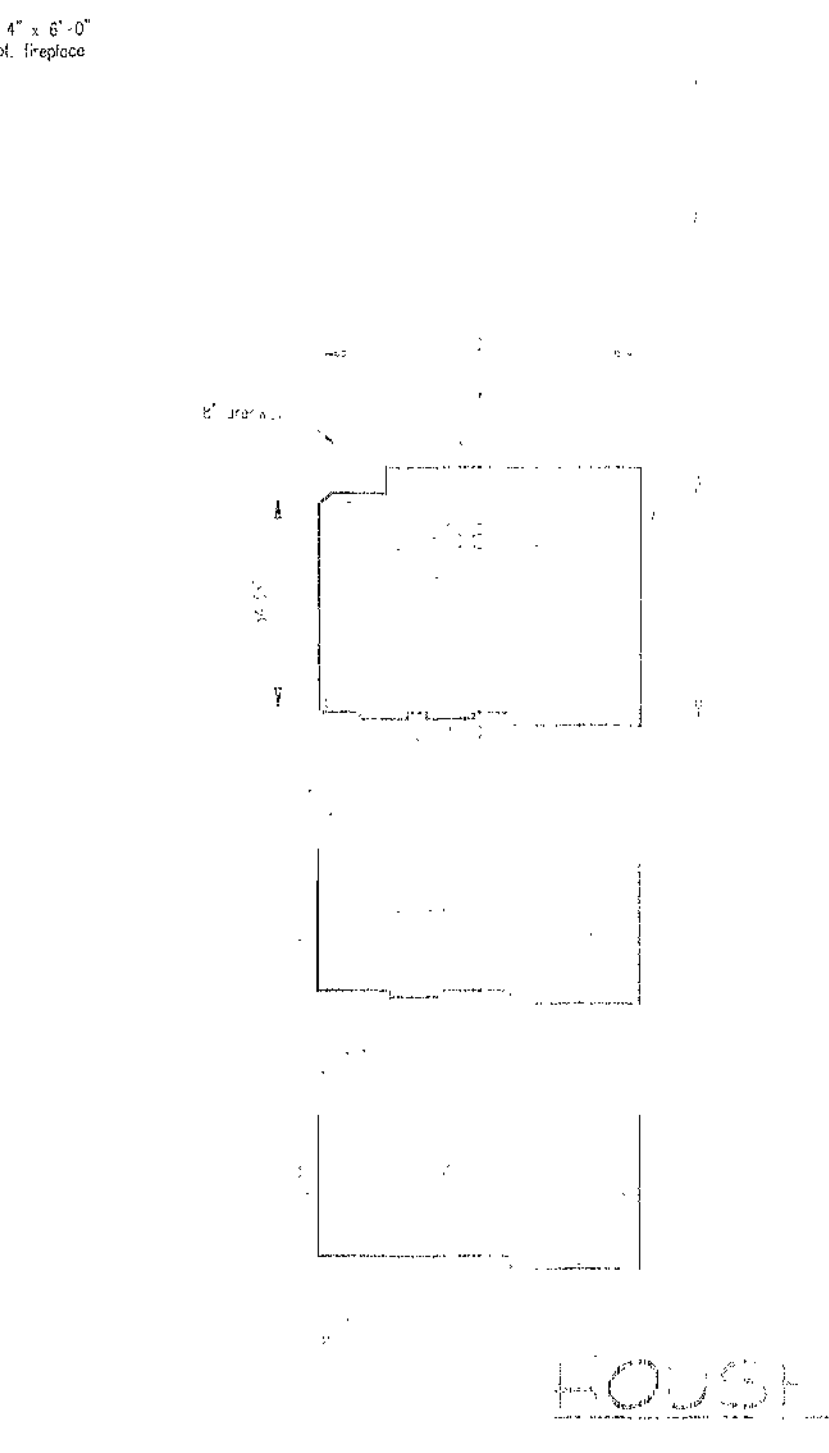
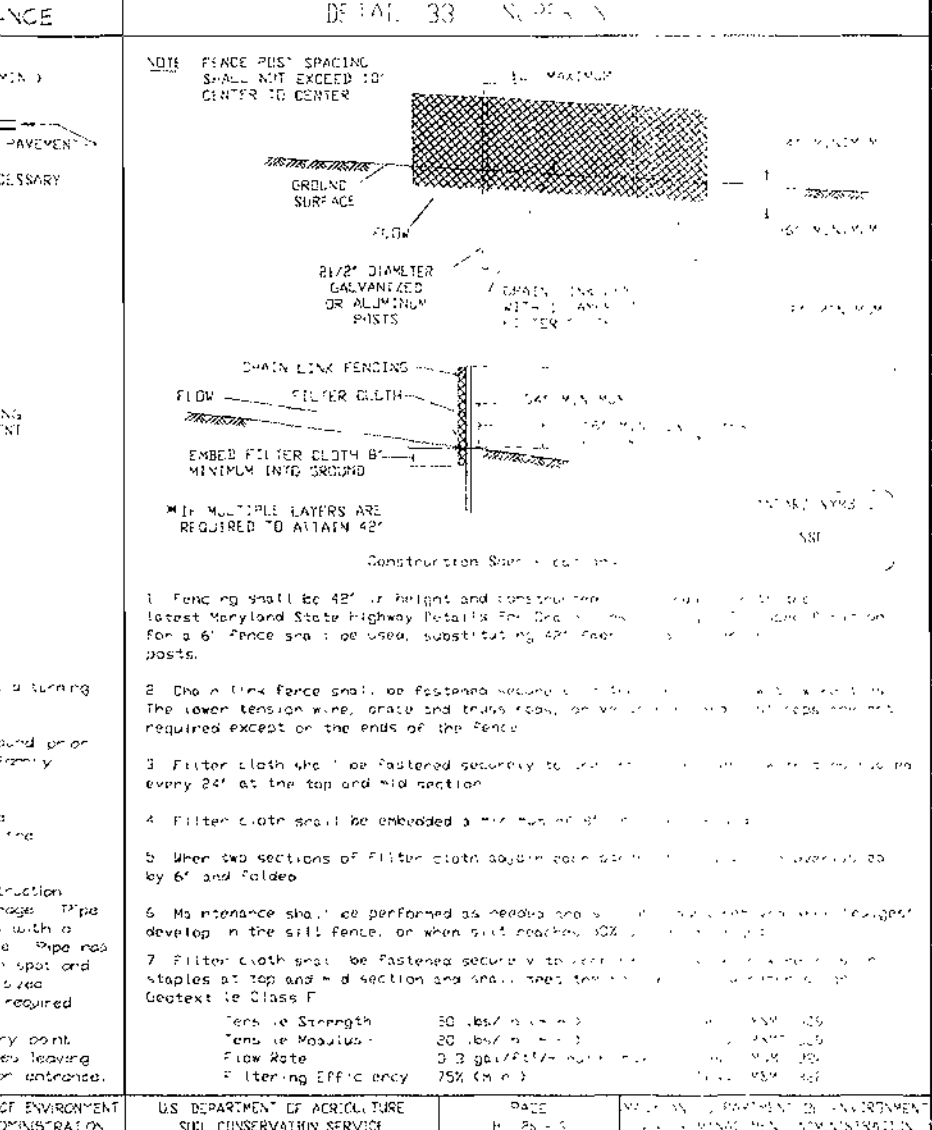
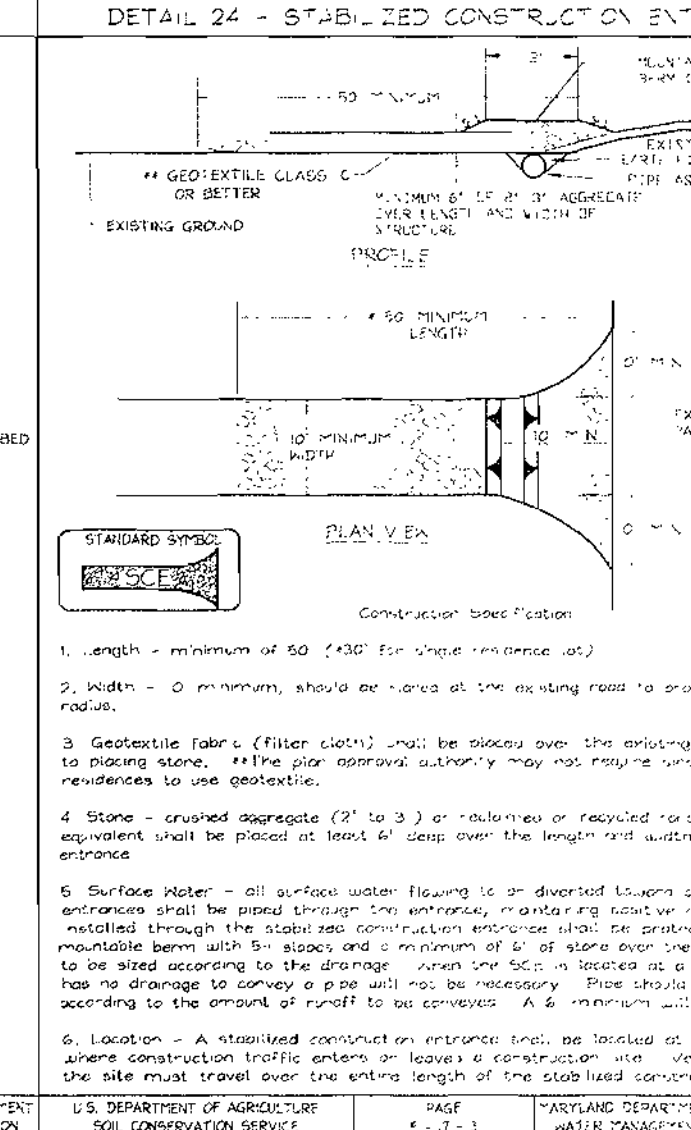
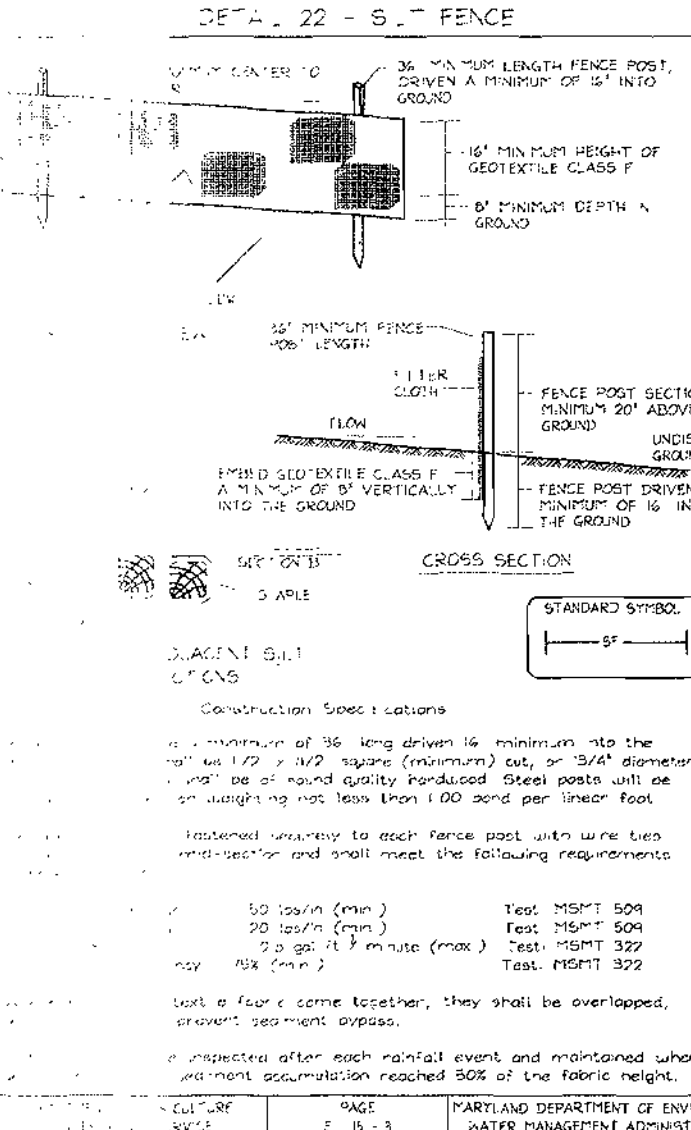
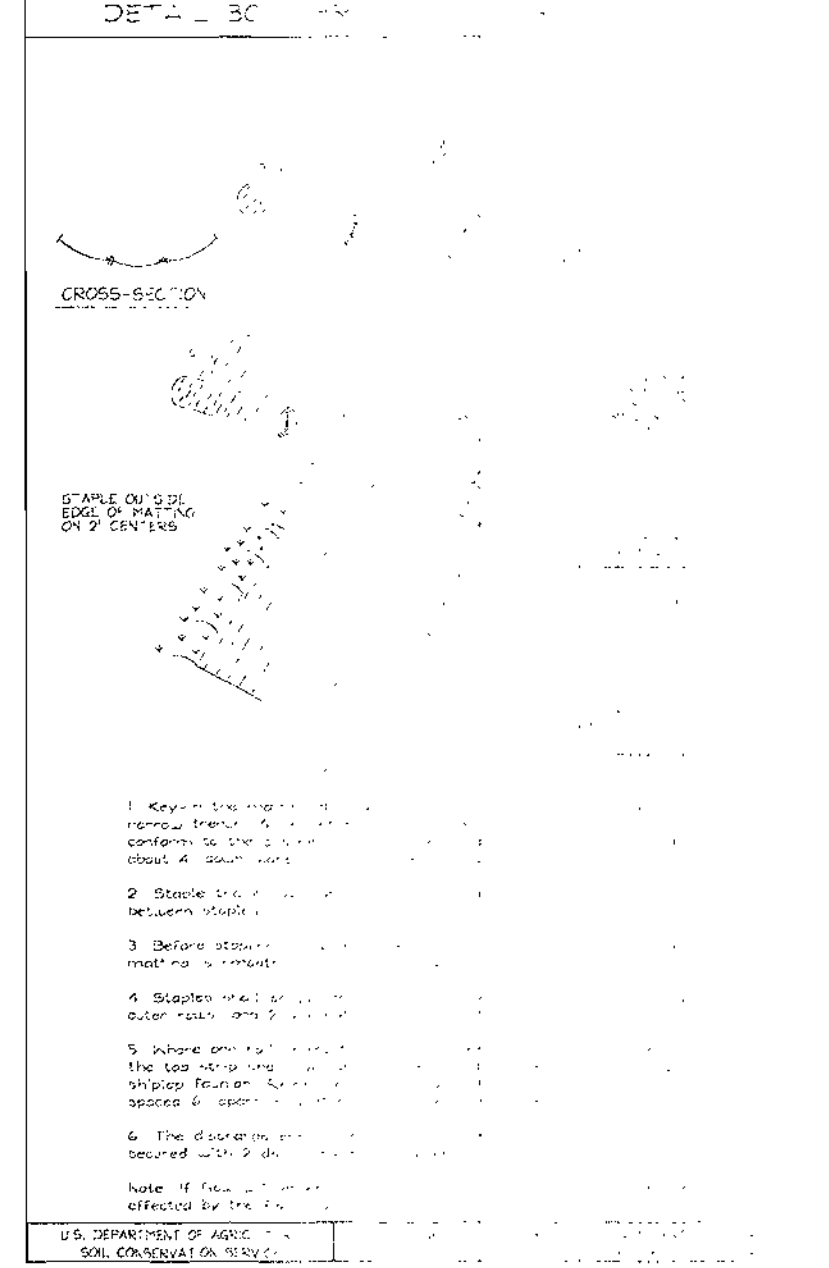
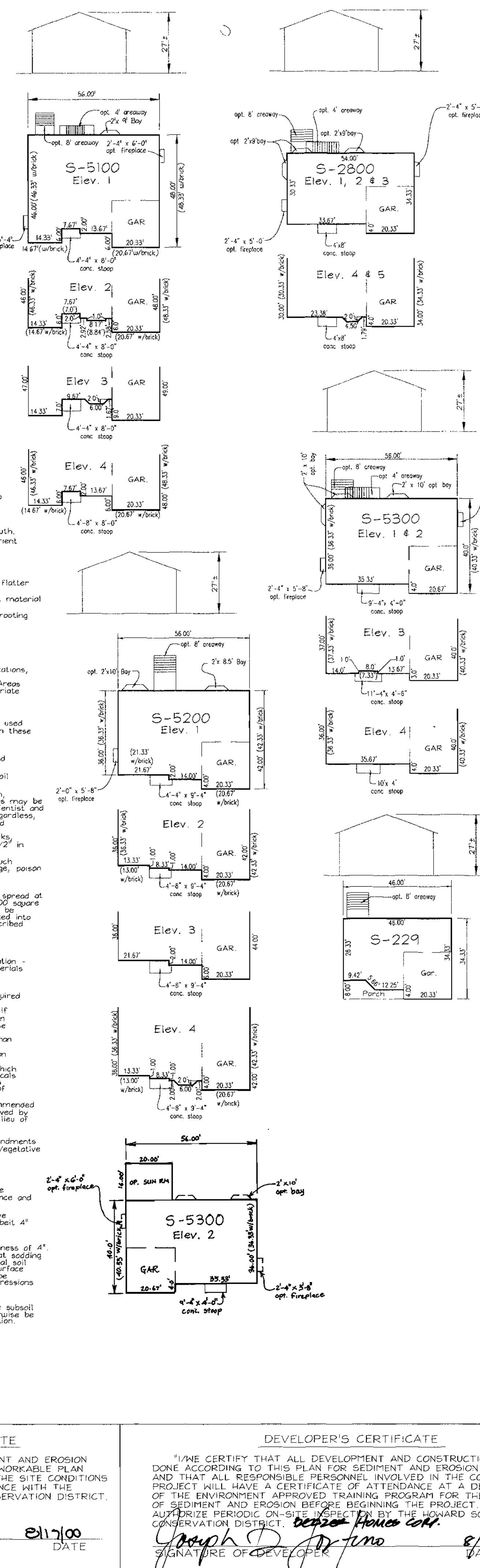
10. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

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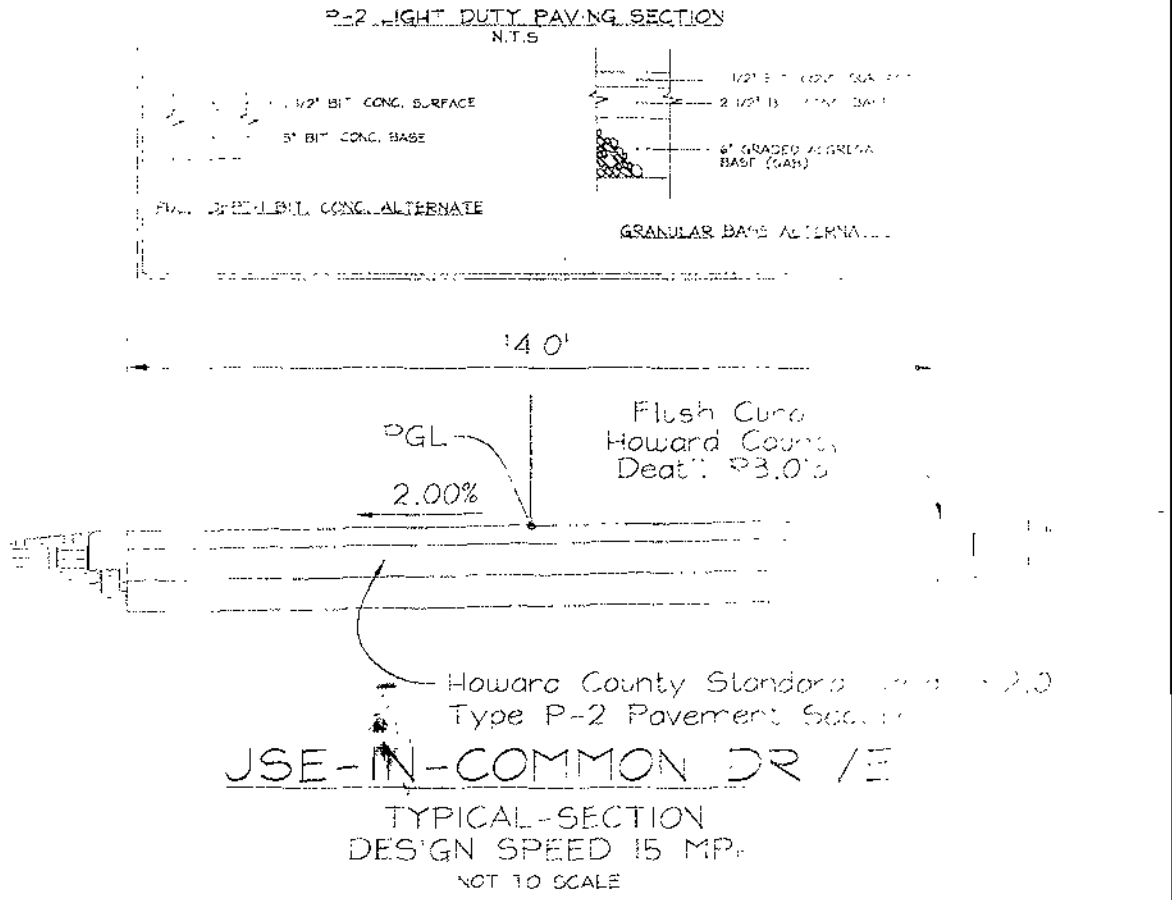
13. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.

14. Planning and Zoning Commission shall hold a public hearing on this plan at least 14 days before the date of the final decision.



### SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Notify Howard County Bureau of Inspections and Permitting at least 24 hours before starting any work.
3. Construct Stabilized Construction Entrances (if any).
4. Install silt fence, silt fence and erosion control measures on the existing sediment controls installed under the existing site.
5. After obtaining permission from the sediment control agency, proceed rough grade site (4 days).
6. Construct house. The first floor elevation cannot be higher than 1' higher or 1' lower than the elevations shown on the plans. The foundation footprint must be within the setback (4 days).
7. Final grade to be in substantial conformance with the development plan (2 days).
8. During grading and after each rainfall, the contractor shall inspect and provide the necessary maintenance on the sediment and erosion control measures installed.
9. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:  
a. 7 calendar days for all perimeter sediment traps.  
b. 14 calendar days for all other disturbed areas.  
c. Slopes and all slopes greater than 3:1.
10. Upon completion of all disturbed areas and with the approval of the sediment control inspector, remove all sediment control devices. Flush storm drain system and convert Existing Sediment Basin No. 1 as shown under E-309.15.



PLANNING AND ZONING  
DATE: 1/10/01  
DATE: 1/22/01  
DATE: 1/26/01

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: Robert H. Vogel  
DATE: 2/11/00

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: Joseph D. Jones  
DATE: 2/11/00

REQUIREMENTS  
OWNER/DEVELOPER  
BEAZER HOMES  
8965 GUILFORD ROAD, SUITE 200  
COLUMBIA, MARYLAND 21046  
410-720-5071  
ATTN: JOE FORTINO

STATE OF MARYLAND  
ROBERT H. VOGEL  
REGISTERED PROFESSIONAL ENGINEER  
DESIGN BY: G...  
DRAWN BY: G...  
CHECKED BY: REV...  
DATE: August 17, 2000  
SCALE: As Shown  
W.O. NO.: 99-129  
10 SHEET OF 10

| SHEET INDEX |                                   |
|-------------|-----------------------------------|
| 1           | COVER SHEET                       |
| 2           | SITE DEVELOPMENT PLAN             |
| 3           | SITE DEVELOPMENT PLAN             |
| 4           | SITE DEVELOPMENT PLAN             |
| 5           | SITE DEVELOPMENT PLAN             |
| 6           | SEDIMENT AND EROSION CONTROL PLAN |
| 7           | SEDIMENT AND EROSION CONTROL PLAN |
| 8           | SEDIMENT AND EROSION CONTROL PLAN |
| 9           | SEDIMENT AND EROSION CONTROL PLAN |
| 10          | DETAIL SHEET                      |

| SEWER CONNECTION INVERTS  |                |               |
|---------------------------|----------------|---------------|
| LOT                       | INV. ELEVATION | M.C.E.        |
| HOLLIFIELD I, SECTION ONE |                |               |
| 4                         | 335.20         | 340.60        |
| 5                         | 328.50         | 332.60        |
| 6                         | 326.70         | 330.60        |
| 11                        | 243.50         | 303.60        |
| 12                        | 242.30         | 298.60        |
| 13                        | 284.80         | 293.60        |
| 19                        | 334.00         | 339.10        |
| 21                        | 343.80         | 348.10        |
| 22                        | 344.80         | 349.10        |
| 23                        | 350.50         | 352.10        |
| 30                        | 345.46         | 343.66        |
| 31                        | 340.40         | 344.60        |
| 32                        | 337.10         | 341.10        |
| 33                        | 307.26         | 311.58        |
| 34                        | 308.20         | 312.50        |
| 38                        | 324.50         | 329.60        |
| 40                        | 333.10         | 338.60        |
| 45                        | 362.40         | 366.60        |
| 47                        | 361.10         | 365.60        |
| 48                        | 356.20         | 360.60        |
| HOLLIFIELD I, SECTION TWO |                |               |
| 50                        | 365.40         | 369.60        |
| 51                        | 361.40         | 365.60        |
| 52                        | 358.50         | 363.60        |
| 53                        | 355.87         | 360.17        |
| 59                        | 348.60         | 352.60        |
| 60                        | 355.50         | 359.60        |
| 62                        | 361.90         | 366.10        |
| 63                        | 365.60         | 370.10        |
| 68                        | 360.95         | 365.75        |
| 69                        | 361.30         | 365.60        |
| 70                        | 360.85         | 364.85        |
| 71                        | 361.06         | 366.25        |
| HOLLIFIELD II             |                |               |
| 9                         | 341.20         | (1.0%) 345.80 |
| 10                        | 346.60         | 351.10        |
| 11                        | 346.60         | 351.10        |
| 12                        | 343.80         | (1.0%) 348.50 |
| 15                        | 343.97         | (1.0%) 348.67 |
| 14                        | 344.70         | 344.60        |
| 16                        | 354.00         | 358.50        |

NOTE: SEWER INVERTS ARE BASED ON CONTRACT NO. 14-3801-D & 14-3802-D

| ADDRESS CHART             |                          |
|---------------------------|--------------------------|
| LOT                       | STREET ADDRESS           |
| HOLLIFIELD I, SECTION ONE |                          |
| 4                         | 2104 Oak Forest Drive    |
| 5                         | 2204 River Terrace Court |
| 6                         | 2206                     |
| 11                        | 2222                     |
| 12                        | 2222                     |
| 13                        | 2220                     |
| 19                        | 2114 Oak Forest Drive    |
| 21                        | 2122 Oak Forest Drive    |
| 22                        | 2120                     |
| 23                        | 2120                     |
| 30                        | 2216 Kaitlins Court      |
| 31                        | 2210                     |
| 32                        | 2223                     |
| 33                        | 2225                     |
| 34                        | 2225                     |
| 38                        | 2225                     |
| 40                        | 2221                     |
| 45                        | 2221                     |
| 47                        | 2118 Oak Forest Drive    |
| 48                        | 2122                     |
| HOLLIFIELD I, SECTION TWO |                          |
| 50                        | 2200 Michaels Ridge      |
| 51                        | 2204                     |
| 52                        | 2215                     |
| 53                        | 2215                     |
| 59                        | 2213                     |
| 60                        | 2219                     |
| 62                        | 2216                     |
| 63                        | 2201                     |
| 68                        | 2101 Oak Forest Drive    |
| 69                        | 2125                     |
| 70                        | 2125                     |
| 71                        | 2123                     |
| HOLLIFIELD II             |                          |
| 9                         | 2121 Oak Forest Drive    |
| 10                        | 2130                     |
| 11                        | 2130                     |
| 12                        | 2123                     |
| 14                        | 2127                     |
| 15                        | 2155                     |

# SITE DEVELOPMENT PLAN HOLLIFIELD ESTATES

HOLLIFIELD ESTATES I SECTION ONE  
LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48

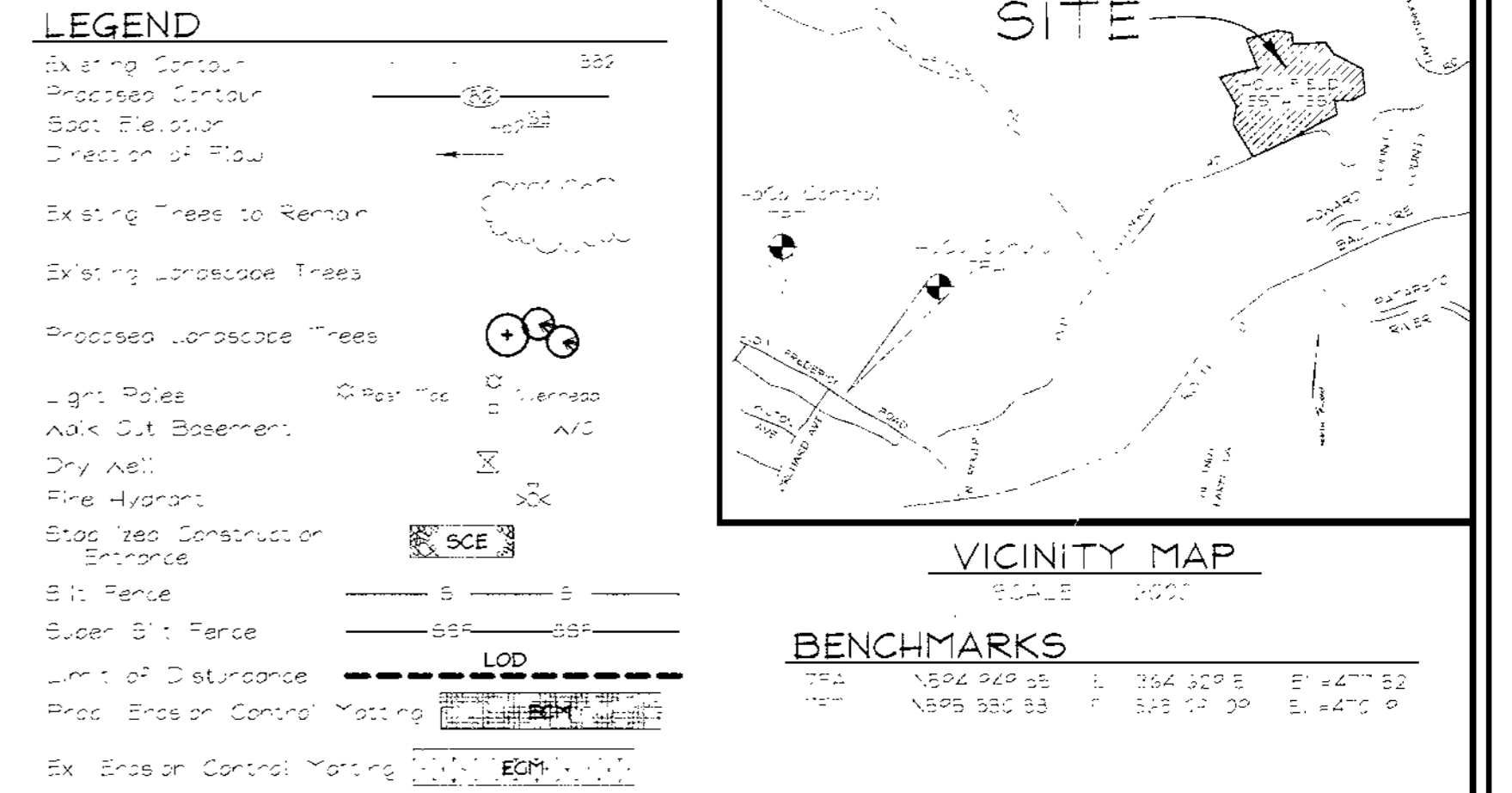
HOLLIFIELD ESTATES I SECTION TWO

LOTS 50-53, 59-60, 62-63 & 68-71

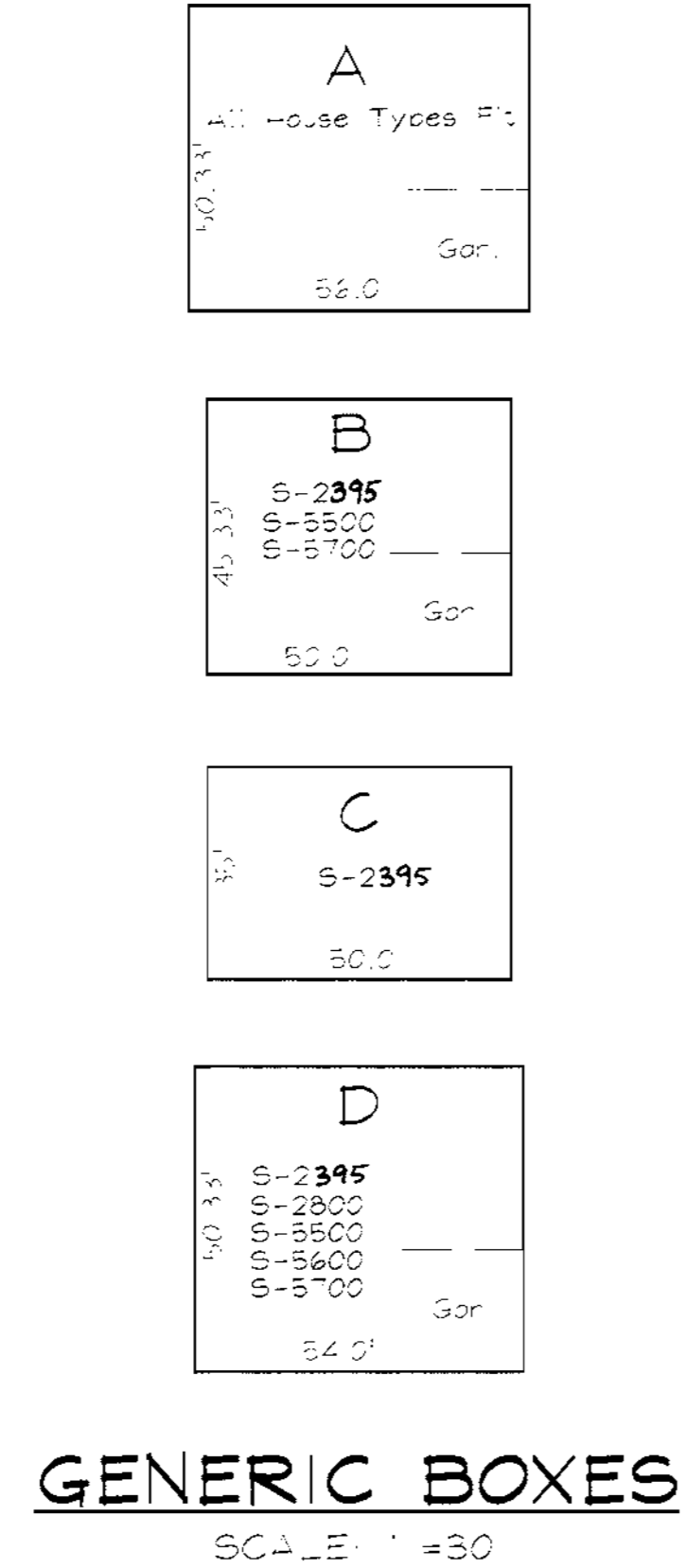
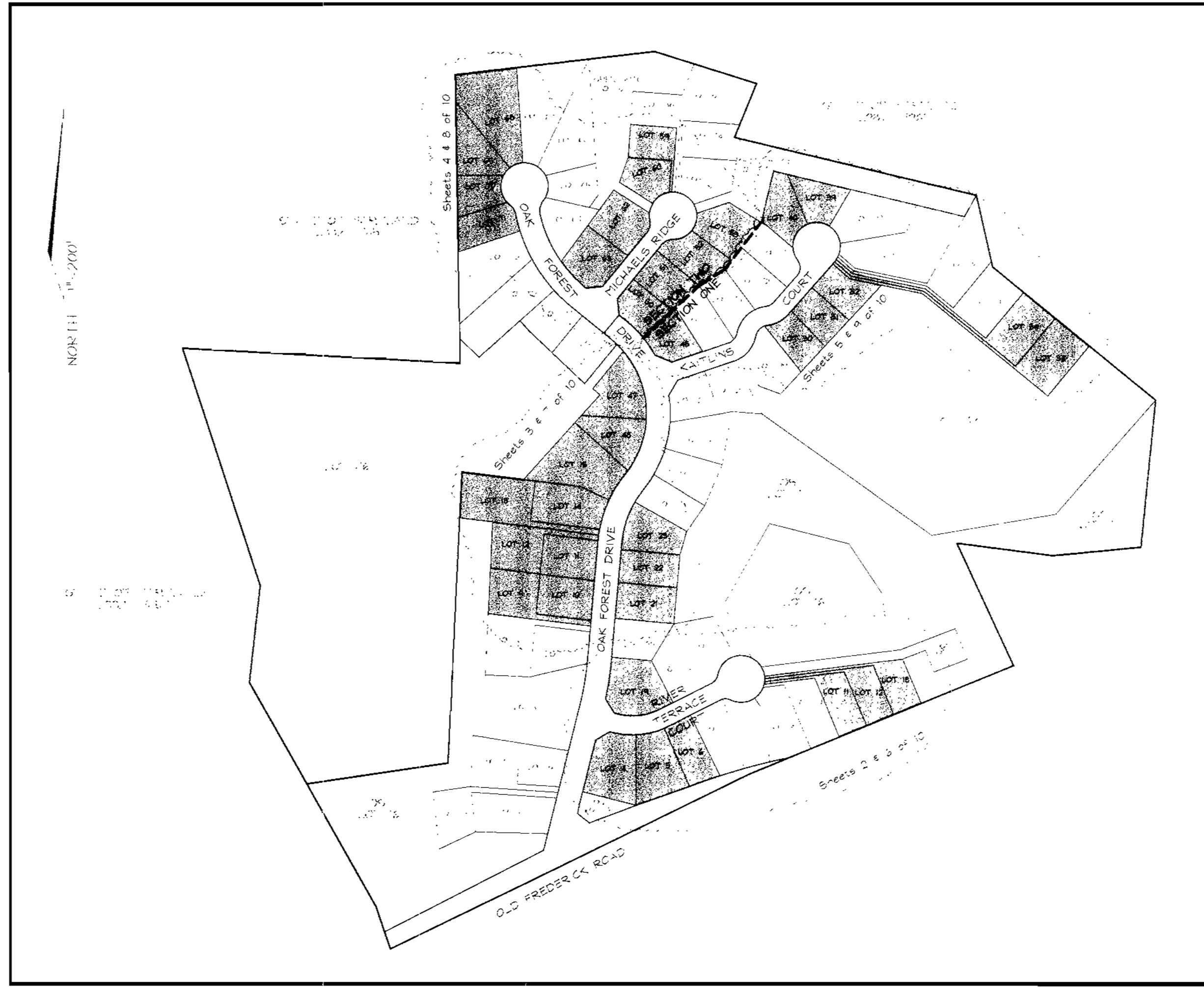
HOLLIFIELD ESTATES II

LOTS 9-15

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



- GENERAL NOTES**
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PUBLIC WORKS DEPARTMENT AND SPECIFICATION # 2013-01.
  - THE CONTRACTOR SHALL NOTIFY THE CITY AT 48 HOURS PRIOR TO ANY EXCAVATION WORK.
  - THE CONTRACTOR SHALL NOTIFY THE COUNTY AT 48 HOURS PRIOR TO ANY EXCAVATION WORK. BEFORE STARTING WORK ON THESE PARCELS, THE CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT AT (410) 386-4353 FOR A PERMIT TO EXCAVATE UNDERGROUND UTILITIES AND DAMAGE CONTROL.
  - SITE ANALYSIS:
    - AREA OF SITE: 44.95 AC
    - HOLLIFIELD ESTATES I SECTION ONE: 44.95 AC
    - HOLLIFIELD ESTATES I SECTION TWO: 8.43 AC
    - HOLLIFIELD ESTATES II: 42.40 AC
    - AREA OF SUBDIVISION: 93.81 AC
    - RESERVED: 1.00 AC
    - AREA OF DISTURBANCE: 93.30 AC
    - PROPOSED EROSION CONTROL: 93.30 AC
    - AREA OF SITE: 93.81 AC
  - PROJECT BACKGROUND:
    - LOCATION: 13815 GAITHERS ROAD, GAITHERSBURG, MD 20878
    - LOCATION: 13815 GAITHERS ROAD, GAITHERSBURG, MD 20878
    - SUBDIVISION: HOLLIFIELD ESTATES I SECTION ONE & TWO
    - SUBDIVISION: HOLLIFIELD ESTATES I SECTION ONE & TWO
    - DEVELOPER: BEAZER HOYES
    - DESIGNER: VOGEL & ASSOCIATES
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF UNDERGROUND UTILITIES AND DAMAGE CONTROL AT (410) 386-4353 AT LEAST FIVE (5) WORKING DAYS BEFORE THE START OF WORK TO 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 ON THE CONTRACTOR'S INFORMATION ON CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF UTILITIES AND TAKE NECESSARY PRECAUTIONS TO AVOID THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE PER HOWARD COUNTY STANDARD DETAIL # 2013-01.
  - TRAFFIC CONTROL DEVICES, PARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SIGNING AND REGULATORY SIGNS SHALL BE IN PLACE BEFORE OR AT THE END OF CONSTRUCTION. ESTIMATES OF EARTHWORK QUANTITIES WERE PROVIDED SOLELY FOR THE PURPOSE OF ESTIMATING FEES.
  - CONSTRUCTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER, SO LONG AS THEY ARE NEAR TO OR ACCEPTABLE TO THE APPROVED STANDARD SPECIFICATIONS FOR SOILS.
  - STORMWATER MANAGEMENT IS PROVIDED BY AN ON-SITE EXTENDED DETENTION TANK OPERATING UNDER PRESSURE. THE FACILITY IS TO BE MAINTAINED AND OPERATED BY HOWARD COUNTY AND THE FUNDING DRY WEATHER FLOW REQUIREMENTS FOR WET WEATHER FLOW SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR WET WEATHER FLOW FOR LANDSCAPING SURVEY REQUIREMENTS FOR LOTS 4, 5, 45, 46, 48, 49, 53.
  - OPEN SPACE REQUIREMENTS FOR THE SUBDIVISION HAVE BEEN PROVIDED UNDER PART 20.10.10.1 FOR FOREST CONSERVATION REGULATIONS HAVE BEEN FULFILLED BY ESTABLISHMENT OF FOREST CONSERVATION ELEMENTS UNDER PART 20.10.10.2.1 AND 20.10.10.2.2.
  - NO CONSTRUCTION OR GRADING IS PERMITTED ON WETLANDS, STREAMS OR OTHER BUFFERS AND FOREST CONSERVATION AREAS.
  - IN ACCORDANCE WITH SECTION 26 OF THE HOWARD COUNTY ZONING REGULATIONS, SIGNAGE OR OTHER ON-SITE FEATURES SHALL NOT BE MORE THAN 8 FEET IN HEIGHT AND SHALL NOT BE BACKLASH, BOLLARDS OR OTHER OPEN OR ENCLOSURE MAY PROJECT NOT MORE THAN 6 FEET FROM THE REAR SETBACK.
  - FOR USE-ADDITION, DRIVE DETAILS AND SPECIFICATIONS SEE SHEET 3 OF 10 AND UTILITIES AND SUPPLIES.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

1/8/01  
1/22/01  
1/26/01

| OWNER/DEVELOPER  |  |                     |          |              |            |
|--|--|---------------------|----------|--------------|------------|
| BEAZER HOYES   | SUITE 200                                    |                     |          |              |            |
| COLUMBIA, MARYLAND 21046   | 410-722-8377                                 |                     |          |              |            |
| ATTENTION: PORTNER   |  |                     |          |              |            |
| SUBDIVISION NAME   |  |                     |          |              |            |
| HOLLIFIELD ESTATES I   | SECTION/AREA                                 |                     |          |              |            |
| SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48 |  |                     |          |              |            |
| HOLLIFIELD ESTATES I   | SECTION TWO LOTS 50-53, 59-60, 62-63 & 68-71 |                     |          |              |            |
| HOLLIFIELD ESTATES II  | LOTS 9-15                                    |                     |          |              |            |
| PLAT NO.   | BLOCK NO.                                    | ZONE                | TAX/ZONE | ELECT. DIST. | CENSUS TR. |
| 14376 thru 14385   | 1 & 2  | R-ED                | 18       | 2ND          | 6021       |
| 14413 thru 14415   |  |                     |          |              |            |
| 14432 thru 14435   |  |                     |          |              |            |
| WATER CODE: F-01   |  | SEWER CODE: 1460000 |          |              |            |

| NO. | REVISION                         | DATE     |
|-----|----------------------------------|----------|
| 2   | REVISE HOUSE MODEL BOX B, C, & D | 10/26/01 |
| 1   | ADDRESS REVISED, LOT 11          |          |

**COVER SHEET**  
**HOLLIFIELD ESTATES**

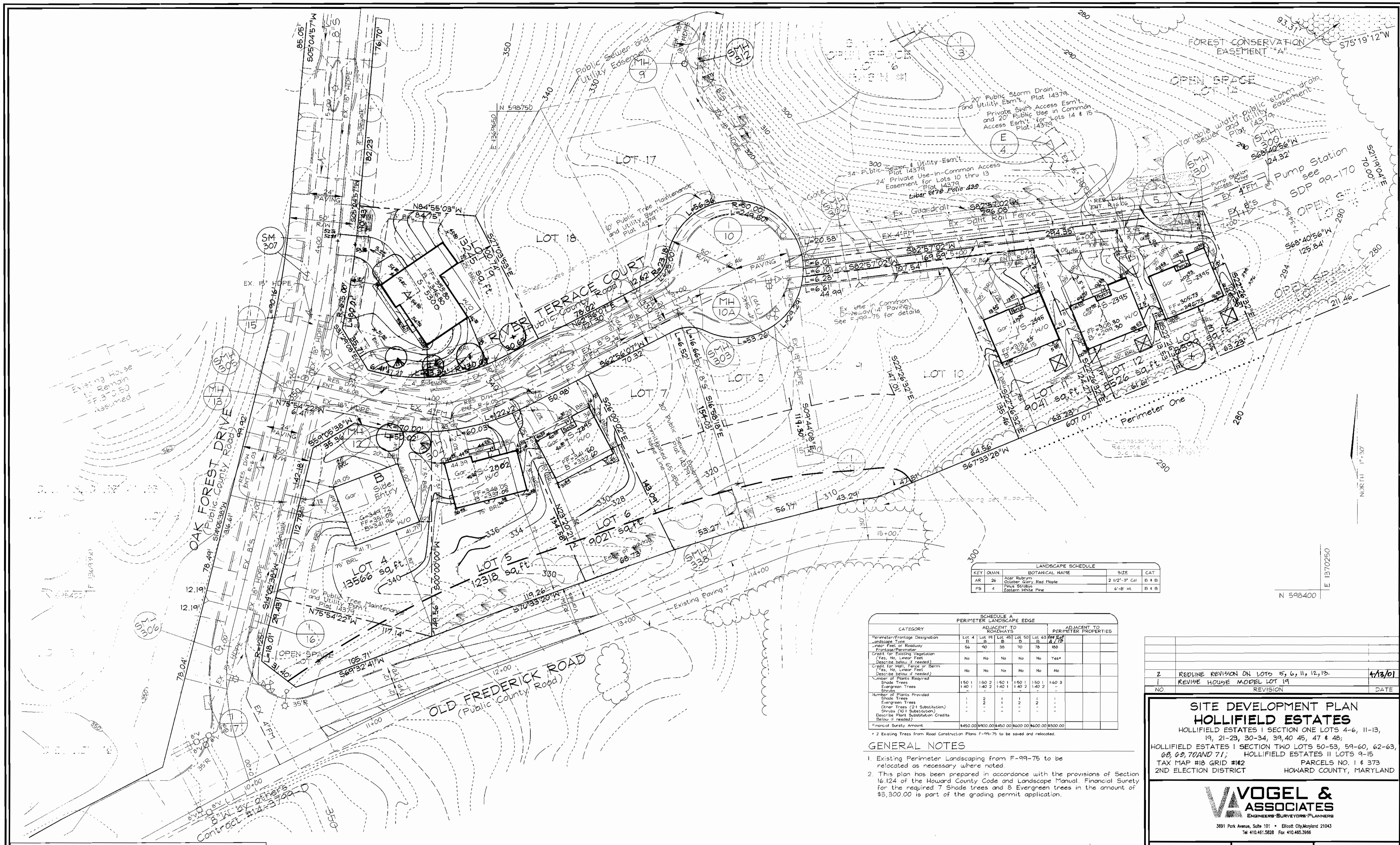
HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
TAX MAP #18 GRID #12 PARCELS NO. 1 & 373  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
ENGINEERS/PLANNERS/ARCHITECTS

333 Park Avenue, Suite 1100 • Farmington, MD 21048  
(410) 481-1888 • Fax (410) 481-1889

|                        |                         |
|------------------------|-------------------------|
| DESIGN BY: [Signature] | CHECKED BY: [Signature] |
| DATE: 1/22/01          | SCALE: AS SHOWN         |
| AC NO: 99-129          |                         |

1 SHEET OF 10



| KEY | DIAM | BOTANICAL NAME                              | SIZE        | CAT      |
|-----|------|---|-------------|----------|
| AR  | 26"  | Alder, Blackberry, October Glory, Red Maple | 2 1/2" - 3" | B & B    |
| PB  | 4"   | Pinus strobus, Eastern White Pine           | 6" - 8"     | H, B & B |

| CATEGORY   | ADJACENT TO ROADWAYS |          |          |          |          | ADJACENT TO PERIMETER PROPERTIES |        |
|--|----------------------|----------|----------|----------|----------|----------------------------------|--------|
|  | Lot 4                | Lot 19   | Lot 45   | Lot 50   | Lot 63   | Lot 10                           | Lot 19 |
| Perimeter/Frontage Designation   | B                    | B        | B        | B        | B        | A                                | B      |
| Frontage Type  | 56                   | 40       | 39       | 70       | 78       | 180                              |        |
| Frontage Perimeter   |                      |          |          |          |          |                                  |        |
| Credit for Existing Vegetation (Yes, No, Linear Feet) Describe below if needed | No                   | No       | No       | No       | No       | Yes*                             |        |
| Credit for Wall, Fence or Berm (Yes, No, Linear Feet) Describe below if needed | No                   | No       | No       | No       | No       | No                               |        |
| Number of Plants Required  |                      |          |          |          |          |                                  |        |
| Shade Trees  | 150                  | 150      | 150      | 150      | 150      | 160                              | 3      |
| Evergreen Trees  | 140                  | 140      | 140      | 140      | 140      | 2                                | -      |
| Number of Plants Provided  |                      |          |          |          |          |                                  |        |
| Shade Trees  | 1                    | 2        | 1        | 1        | 2        | 1                                | -      |
| Evergreen Trees  | 1                    | 2        | 1        | 1        | 2        | 1                                | -      |
| Other Trees (21 Substitution)  | -                    | -        | -        | -        | -        | -                                | -      |
| Shrubs (101 Substitution)  | -                    | -        | -        | -        | -        | -                                | -      |
| Describe Plant Substitution Credits Below if needed                            |                      |          |          |          |          |                                  |        |
| Financial Surety Amount  | \$450.00             | \$900.00 | \$450.00 | \$600.00 | \$600.00 | \$900.00                         | \$0.00 |

**GENERAL NOTES**

- Existing Perimeter Landscaping from F-99-75 to be relocated as necessary where noted.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual. Financial Surety for the required 7 Shade trees and 8 Evergreen trees in the amount of \$3,900.00 is part of the grading permit application.

| NO | REVISION                                   | DATE    |
|----|--|---------|
| 2  | REDLINE REVISION ON LOTS 5, 6, 11, 12, 13. | 1/13/01 |
| 1  | REVISE HOUSE MODEL LOT 19                  |         |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3891 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3366

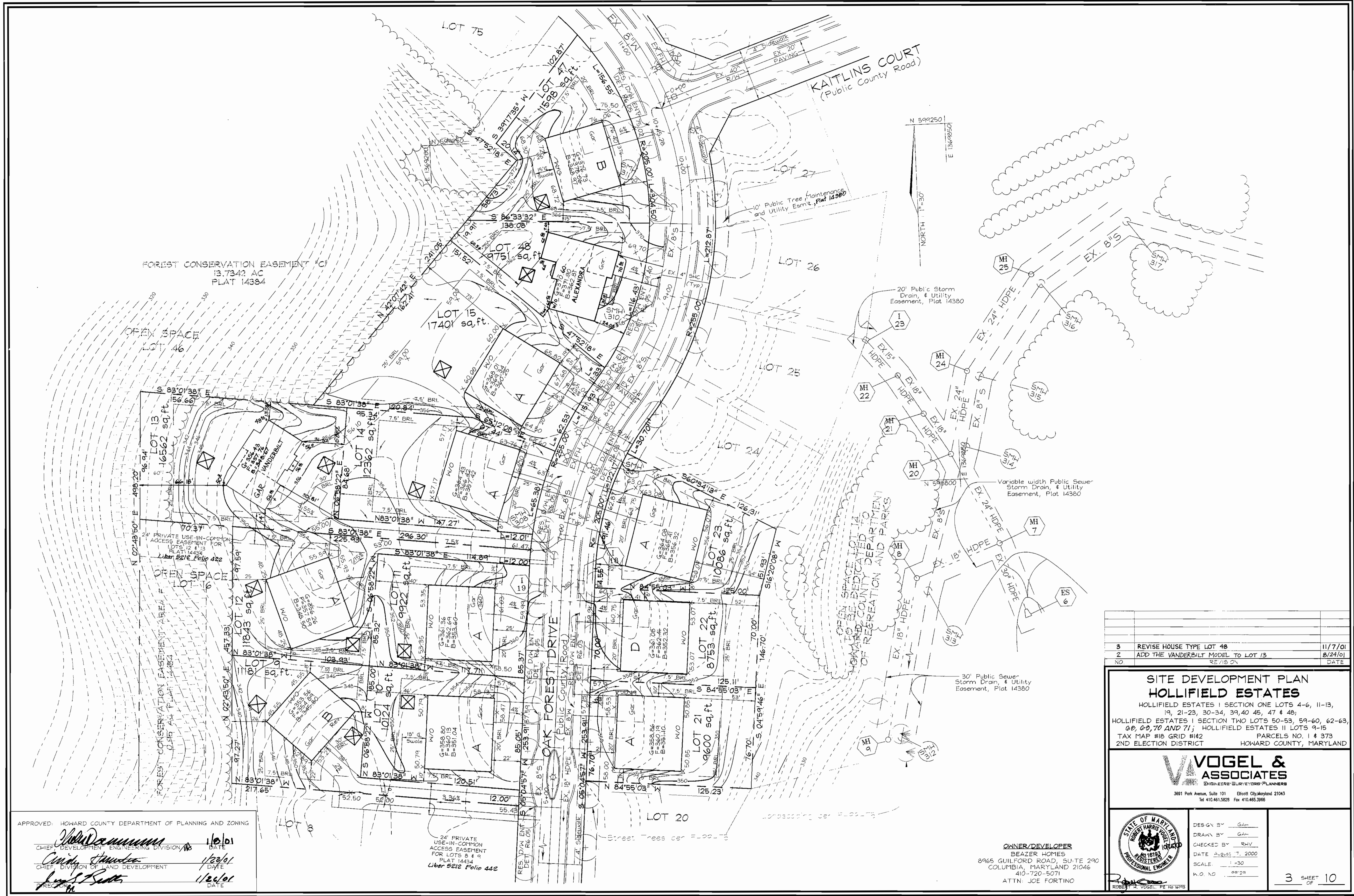


DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

2 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 1/16/01  
 [Signature] 1/22/01  
 [Signature] 1/26/01





|     |                                    |         |
|-----|------------------------------------|---------|
| 3   | REVISE HOUSE TYPE LOT 48           | 11/7/01 |
| 2   | ADD THE VANDERBILT MODEL TO LOT 13 | 8/24/01 |
| NO. | REVISION                           | DATE    |

**SITE DEVELOPMENT PLAN  
HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63,  
 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS/SURVEYORS/PLANNERS  
 3691 Park Avenue, Suite 101 Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3986

|          |            |               |
|----------|------------|---------------|
|          | DESIGN BY  | GAH           |
|          | DRAWN BY   | GAH           |
|          | CHECKED BY | RHV           |
|          | DATE       | 8/23/01       |
| SCALE:   |            | 1" = 30'      |
| W.O. NO. |            | 0029          |
|          |            | 3 SHEET OF 10 |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*John Dammann* 11/6/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*Candy Stauder* 1/22/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
*James S. Smith* 11/24/01  
 RECORDING DATE

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

24' PRIVATE  
 USE-IN-COMMON  
 ACCESS EASEMENT  
 FOR LOTS 9 & 91  
 PLAT 14434  
 Liber 5212 Folio 442

TEMPORARY SEEDING

Soil is exposed on a slope... Temporary seeding shall be applied to exposed soil... within 14 days of exposure...

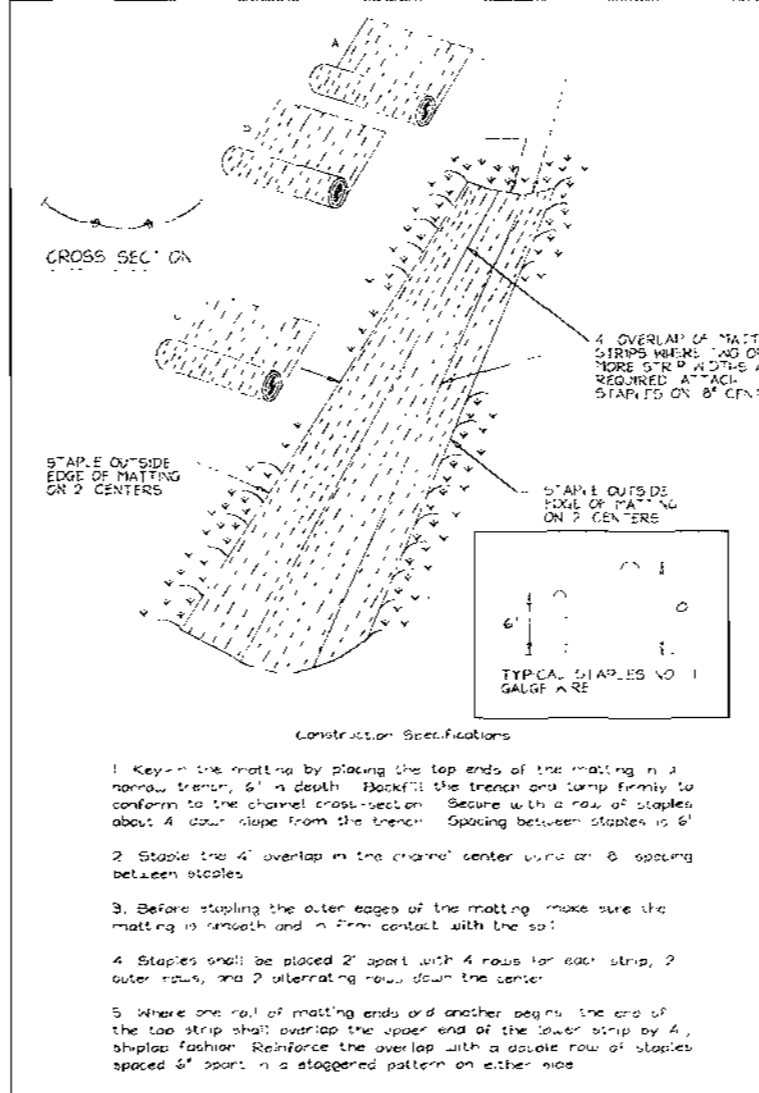
PERMANENT SEEDING NOTES

Apply a topsoil or mulch... Permanent seeding shall be applied to exposed soil... within 14 days of exposure...

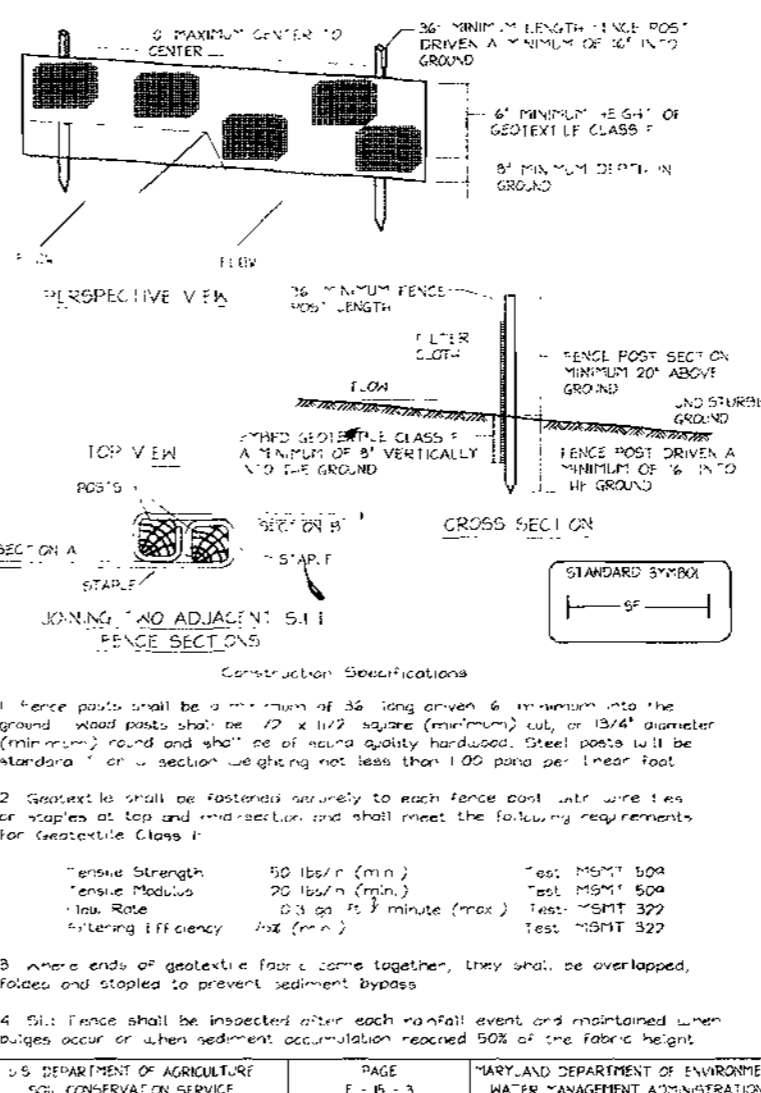
21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition: Topsoil is the soil... Standards and specifications for topsoil... Construction and Material Specifications...

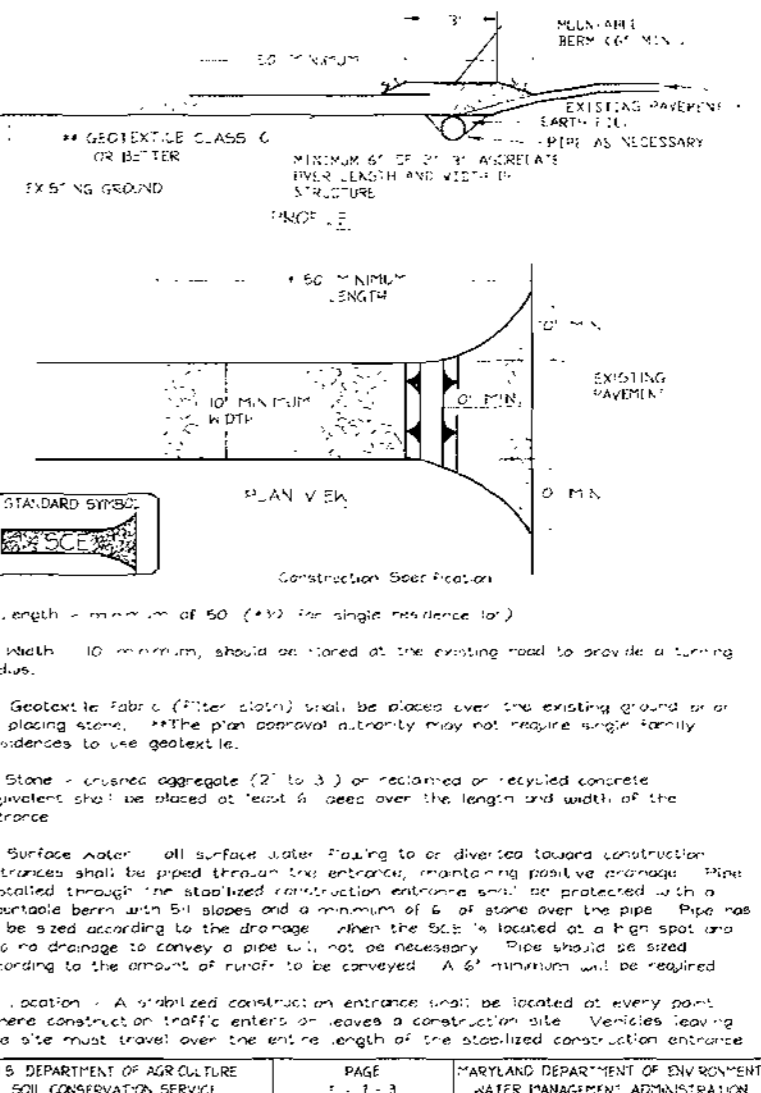
DETAIL 30 - EROSION CONTROL MATTING



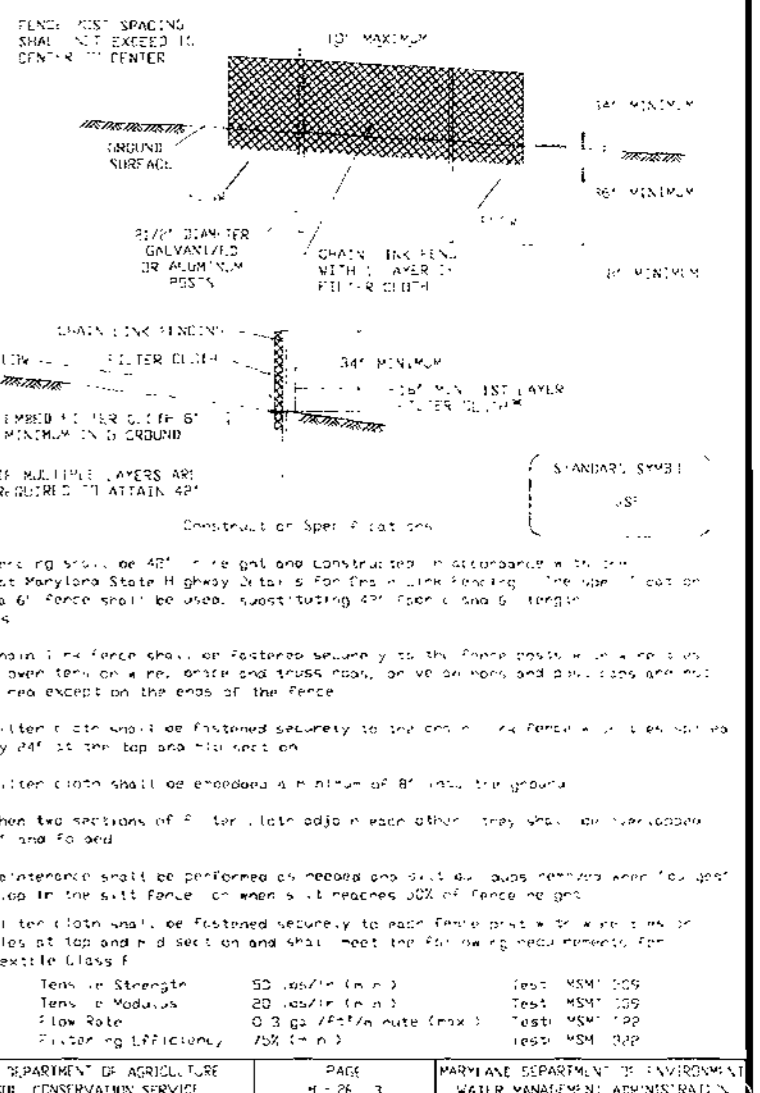
DETAIL 22 - SILT FENCE



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



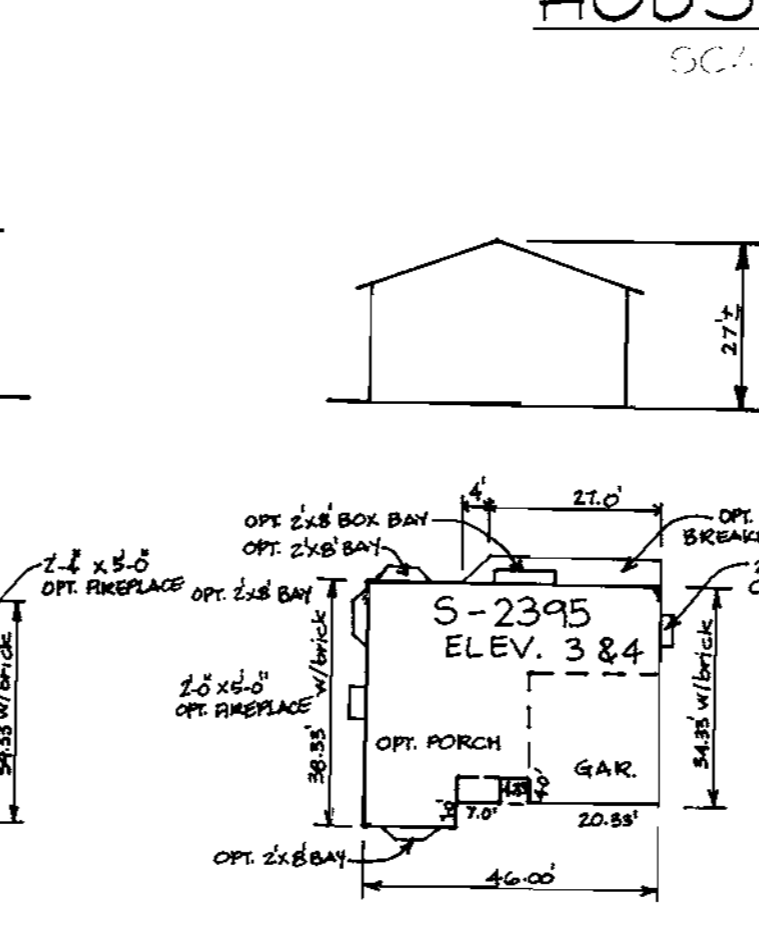
SEQUENCE OF CONSTRUCTION



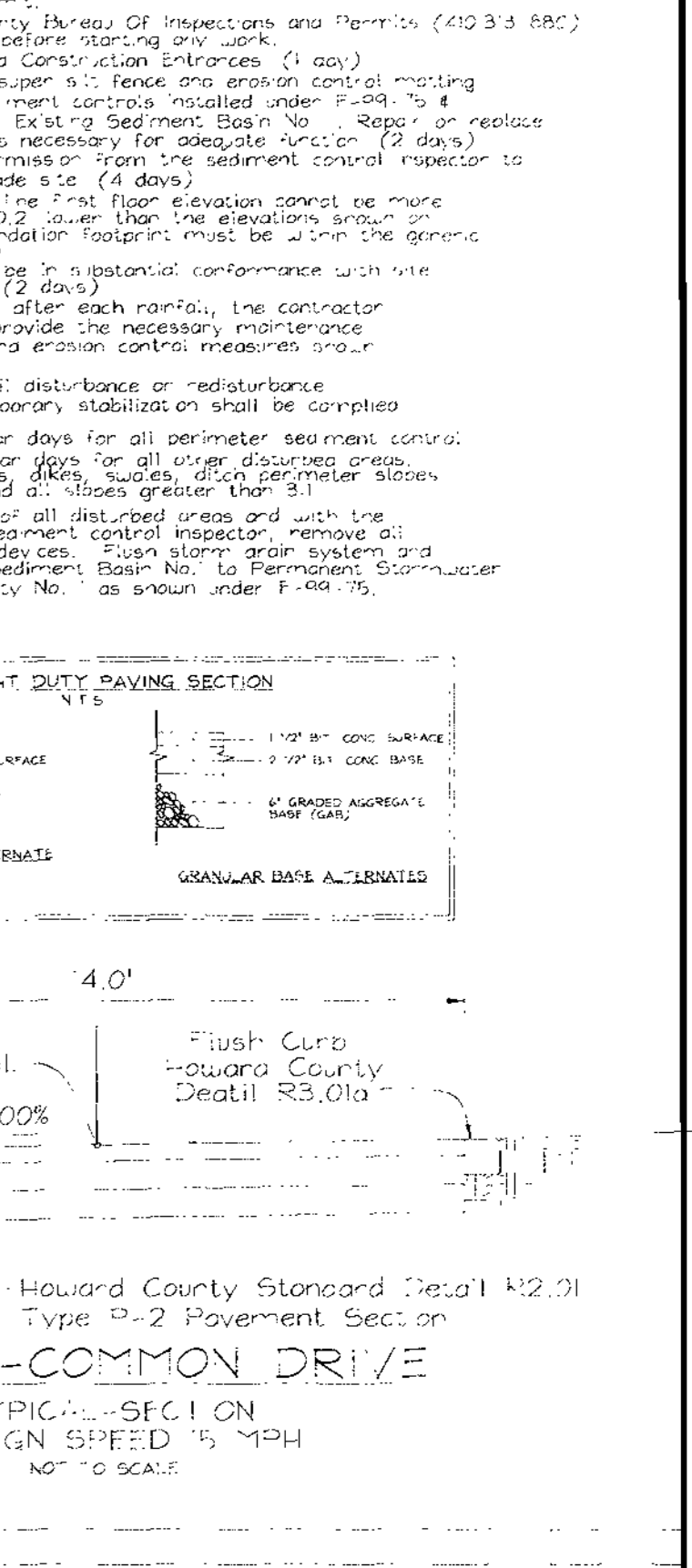
SEDIMENT CONTROL NOTES

1. Minimum of 60% of site must be covered... 2. Vegetation and structural protection... 3. Sediment control structures...

HOUSE TYPES



SEQUENCE OF CONSTRUCTION



Revision table with columns for NO., REVISION, and DATE.

DETAIL SHEET HOLLIFIELD ESTATES... HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63...

VOGEL & ASSOCIATES ENGINEERS SURVEYORS PLANNERS... State of Maryland Professional Engineer seal.

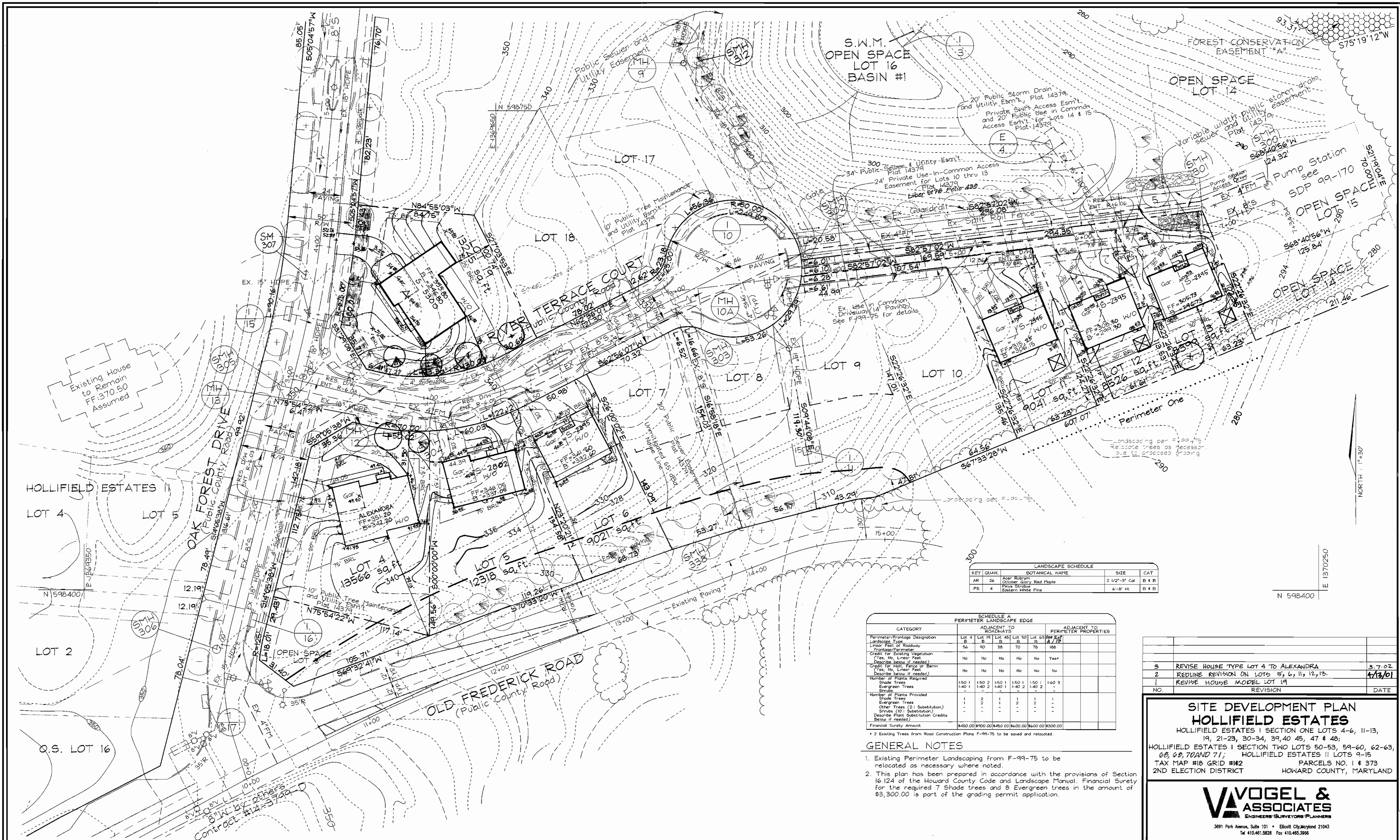
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING... [Signatures]

ENGINEER'S CERTIFICATE: I, CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN...

DEVELOPER'S CERTIFICATE: I, CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL...

RELEASED FOR HOWARD COUNTY MEETING REQUIREMENTS: [Signatures and dates]

OWNER/DEVELOPER: BEATER HOMES... [Address and contact info]



| KEY QUAN. | BOTANICAL NAME                         | SIZE          | CAT   |
|-----------|--|---------------|-------|
| AR 26     | Acer Rubrum<br>October Glory Red Maple | 2 1/2"-3" Cal | B 4 B |
| PS 4      | Pinus strobus<br>Eastern White Pine    | 6"-8" HT      | B 4 B |

| CATEGORY   | PERIMETER LANDSCAPE EDGE |                                  |                                  |                                  |                                  |
|--|--------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|  | ADJACENT TO ROADWAYS     | ADJACENT TO PERIMETER PROPERTIES | ADJACENT TO PERIMETER PROPERTIES | ADJACENT TO PERIMETER PROPERTIES | ADJACENT TO PERIMETER PROPERTIES |
| Perimeter/Frontage Designation   | Lot 4                    | Lot 11                           | Lot 45                           | Lot 50                           | Lot 63                           |
| Linear Feet of Roadway   | 56                       | 90                               | 30                               | 70                               | 186                              |
| Linear Feet of Perimeter   | -                        | -                                | -                                | -                                | -                                |
| Credit for Existing Vegetation (Yes, No, Linear Feet Describe below if needed) | No                       | No                               | No                               | No                               | Yes*                             |
| Credit for Matt Fence or Berm (Yes, No, Linear Feet Describe below if needed)  | No                       | No                               | No                               | No                               | No                               |
| Number of Plants Required  |                          |                                  |                                  |                                  |                                  |
| Shade Trees  | 1:50                     | 1:50                             | 2:150                            | 1:50                             | 1:150                            |
| Evergreen Trees  | 1:40                     | 1:40                             | 2:140                            | 1:40                             | 2:140                            |
| Number of Plants Provided  |                          |                                  |                                  |                                  |                                  |
| Shade Trees  | 1                        | 2                                | 1                                | 1                                | 1                                |
| Evergreen Trees  | 1                        | 2                                | 1                                | 1                                | 1                                |
| Other Trees (2:1 Substitution)   | -                        | -                                | -                                | -                                | -                                |
| Spruces (10:1 Substitution)  | -                        | -                                | -                                | -                                | -                                |
| Describe Plant Substitution Credits Below if needed                            |                          |                                  |                                  |                                  |                                  |
| Financial Surety Amount  | \$450.00                 | \$900.00                         | \$450.00                         | \$600.00                         | \$300.00                         |

- GENERAL NOTES**
- Existing Perimeter Landscaping from F-99-75 to be relocated as necessary where noted.
  - This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual. Financial Surety for the required 7 Shade trees and 8 Evergreen trees in the amount of \$3,300.00 is part of the grading permit application.

| NO. | REVISION                                    | DATE    |
|-----|---|---------|
| 3   | REVISE HOUSE TYPE LOT 4 TO ALEXANDRA        | 3.7.02  |
| 2   | REDLINE REVISION ON LOTS 15, 6, 11, 12, 13. | 4/13/01 |
| 1   | REVISE HOUSE MODEL LOT 19                   |         |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES II SECTION TWO LOTS 50-53, 59-60, 62-63,  
 68, 69, 70 AND 71; HOLLIFIELD ESTATES III LOTS 9-15  
 TAX MAP #18 GRID #1#2 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3966

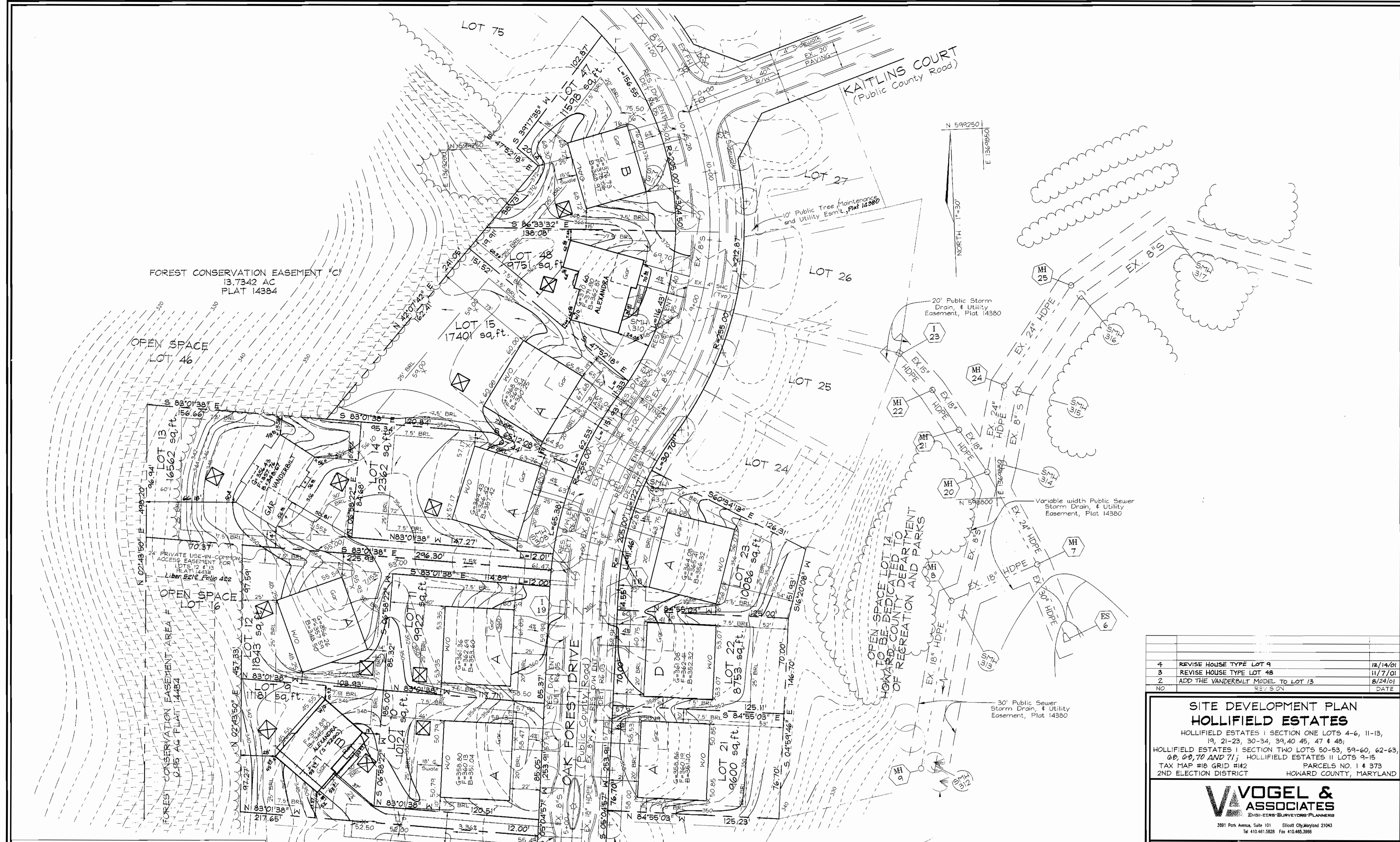


DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 N.O. NO.: 99-129

2 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 1/22/01  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 1/22/01  
  
 DIRECTOR  
 DATE: 1/22/01

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

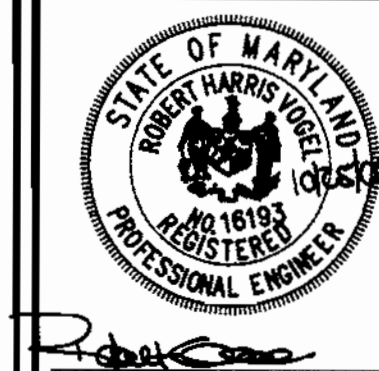


|    |                                    |          |
|----|------------------------------------|----------|
| 4  | REVISE HOUSE TYPE LOT 9            | 12/14/01 |
| 3  | REVISE HOUSE TYPE LOT 48           | 11/7/01  |
| 2  | ADD THE VANDERBILT MODEL TO LOT 13 | 8/24/01  |
| NO | REVISED                            | DATE     |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS PLANNERS  
 3591 Park Avenue, Suite 101 Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3966

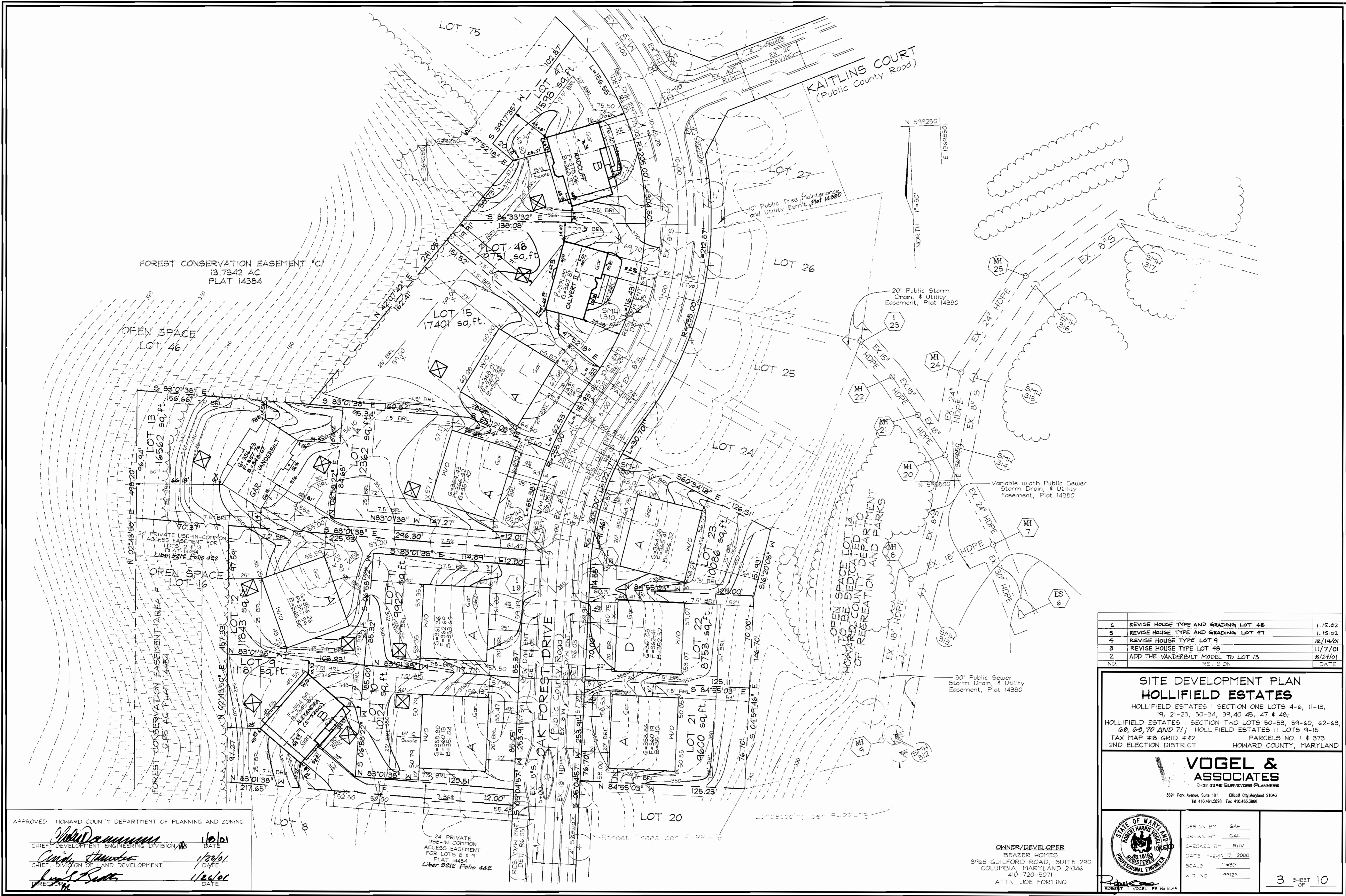
DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHY  
 DATE: 05.17.2000  
 SCALE: 1"=30'  
 W.C. NO: 99120



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 Chief Development Engineers Division  
 Chief, Division of Land Development  
 Director

1/6/01  
 1/28/01  
 1/28/01

C:\Land Projects\99-129\dwg\802\53.dwg 04.08.07.00



| NO. | REVISION                             | DATE     |
|-----|--------------------------------------|----------|
| 1   | REVISE HOUSE TYPE AND GRADING LOT 48 | 1.15.02  |
| 5   | REVISE HOUSE TYPE AND GRADING LOT 47 | 1.15.02  |
| 4   | REVISE HOUSE TYPE LOT 9              | 12/14/01 |
| 3   | REVISE HOUSE TYPE LOT 48             | 11/7/01  |
| 2   | ADD THE VANDERBILT MODEL TO LOT 13   | 8/24/01  |
| NO. | REVISION                             | DATE     |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES II SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES III LOTS 9-15  
 TAX MAP #16 GRID #12 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS SURVEYORS PLANNERS  
 3691 Park Avenue, Suite 101 Ellicott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.466.3966

|               |                  |  |
|---------------|------------------|--|
|               | DESIGN BY: GAH   | <p align="center"><b>3</b> SHEET <b>10</b></p> |
|               | DRAWN BY: GAH    |  |
|               | CHECKED BY: RHV  |  |
|               | DATE: 11/17/2000 |  |
| SCALE: 1"=30' | ATTN: 9/1/00     |  |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John DeMunn* 1/6/01  
 CHIEF, DEVELOPMENT ENGINEERS DIVISION

*Christy Hamilton* 1/28/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT

*Joseph P. Smith* 1/28/01  
 DIRECTOR

24' PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 8 & 9 PLAT 14434 Liber 5212 Folio 442

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

**TEMPORARY SEEDING**

Apply to graded or cleared areas likely to be redisturbed 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 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 (0.7 lbs./1000 sq. ft.). For the period November 16 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 soil.  
 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 at 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.  
 Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

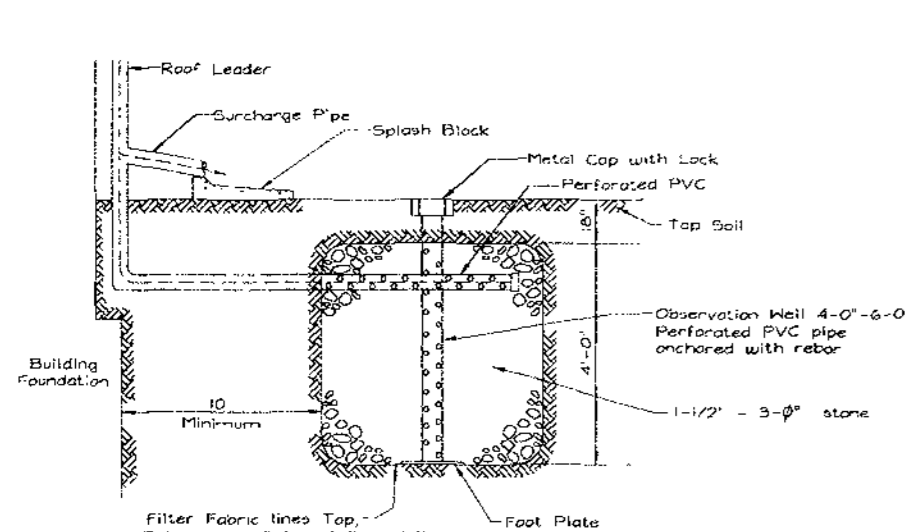
**PERMANENT SEEDING NOTES**

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: Use one of the following schedules:  
 1) Preferred: Apply 2 tons per acre of organic 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.  
 2) Acceptable: Apply 7 tons per acre of well-anchored straw mulch, and 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 periods March 1 thru April 30 and August 1 thru October 15, seed with 600 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. of Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 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 of well-anchored straw mulch, and seed as soon as possible in the spring. Option 2 - Use soil. Option 3 - Seed with 600 lbs. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.  
 Mulching: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool at 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.  
 Maintenance: Inspect all seeded areas, and make needed repairs, replacements, and reseedings.

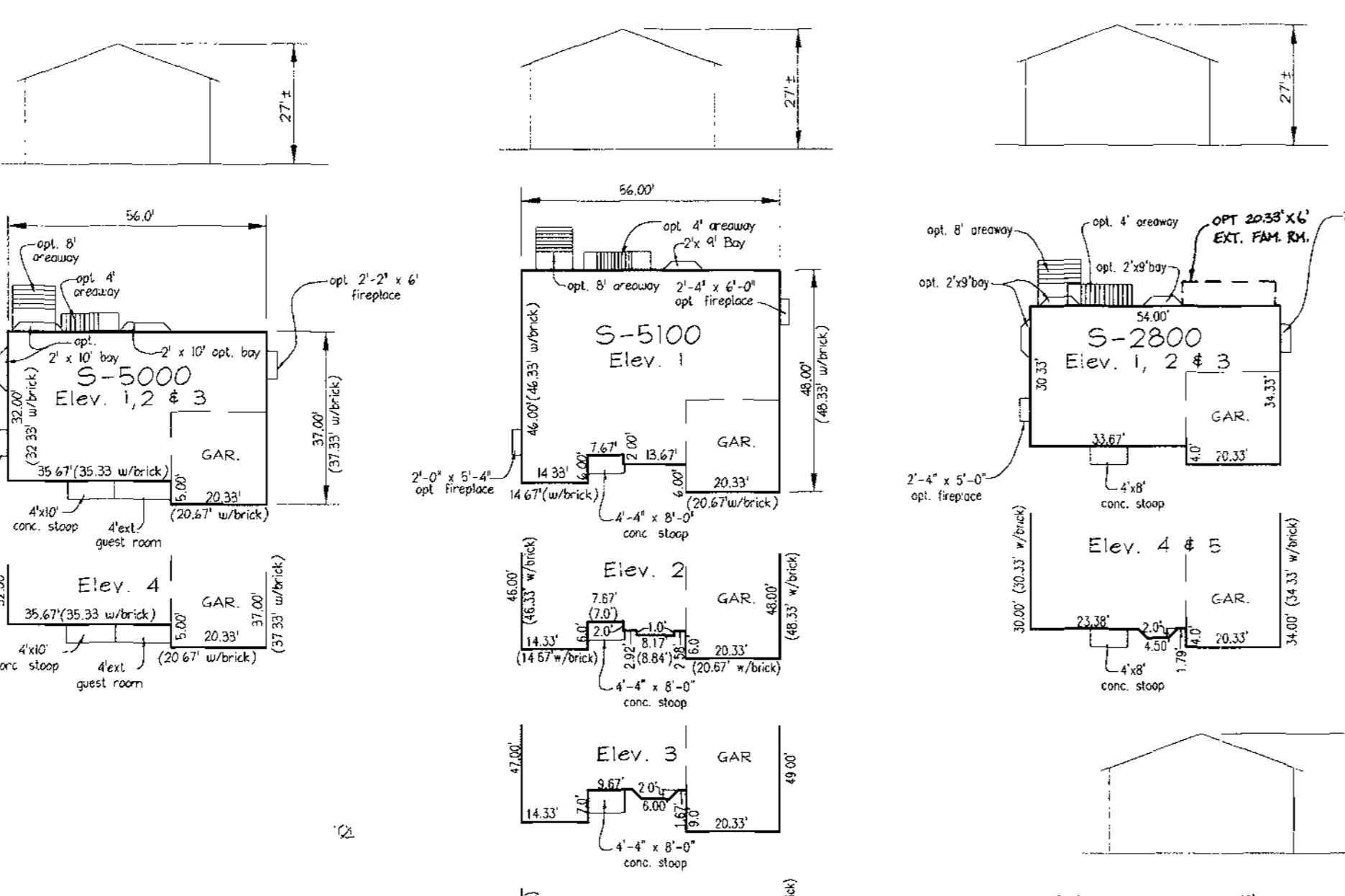
**SEDIMENT CONTROL NOTES**

- 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 (315-1995).
- All vegetation and structural practices 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.
- Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, and all slopes greater than 3:1, (b) 14 days to all other disturbed or graded areas on the project site.
- All sediment traps/basins shall 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, soil, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

|                                     |            |
|-------------------------------------|------------|
| Area Disturbed                      | 0.33 Acres |
| Area to be seeded or paved          | 2.30 Acres |
| Area to be vegetatively stabilized  | 6.43 Acres |
| Total CUL                           | 29.07 CU   |
| Total FILL                          | 29.07 CU   |
| Off-site waste/borrow 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 that 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.



NOTE: Drywell bottom must be placed on undisturbed soil.  
 1. 4000# - 2400 x 7 1/2 x 47/8  
 2. 15000# - 3800 x 36 x 45/8  
**TYPICAL DRY WELL CROSS SECTION**  
 NOT TO SCALE  
 LOCATION OF DRY WELLS ARE APPROXIMATE AND ARE TO BE DETERMINED IN FIELD.



**21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL**

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

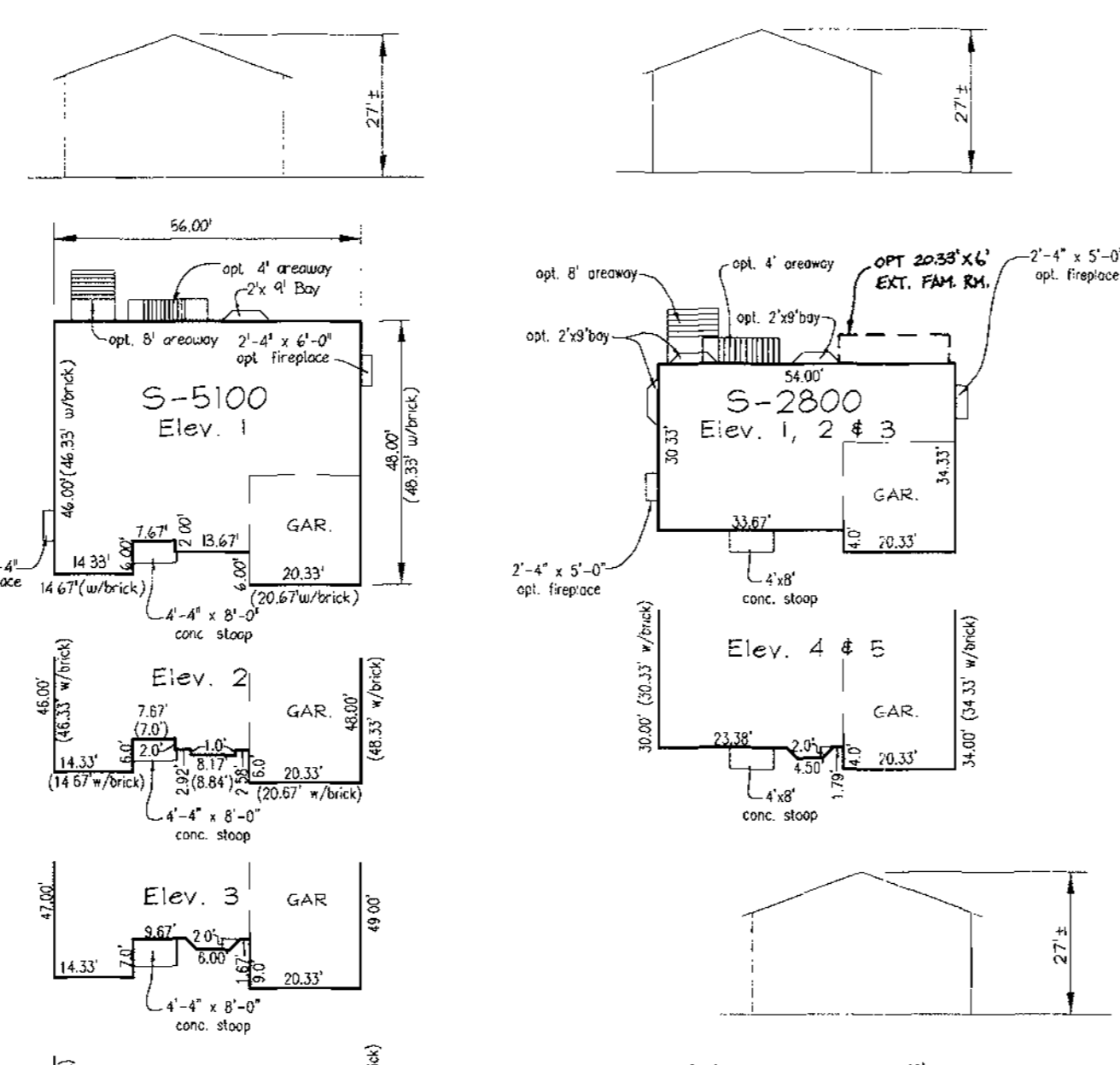
**Object**  
 To provide a suitable soil medium for vegetable growth. Soils of concern here low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**

- This practice is limited to areas having 21 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 containing 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.

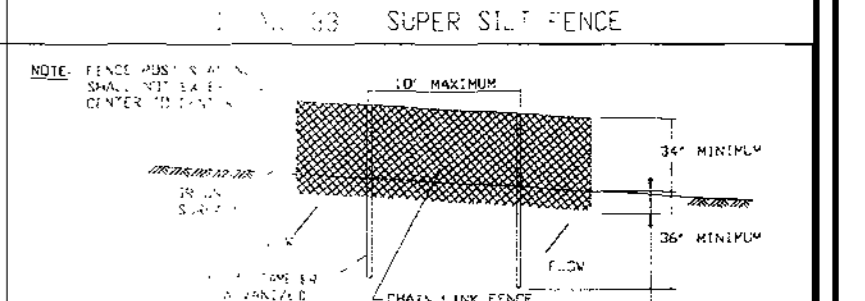
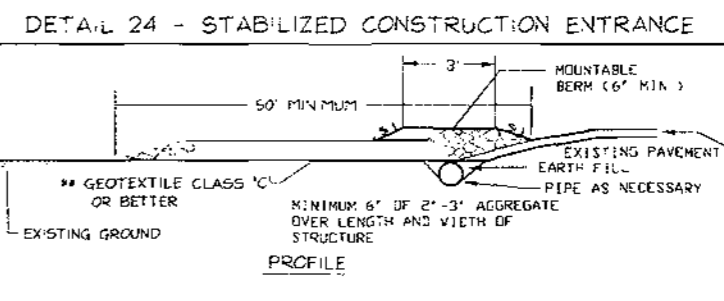
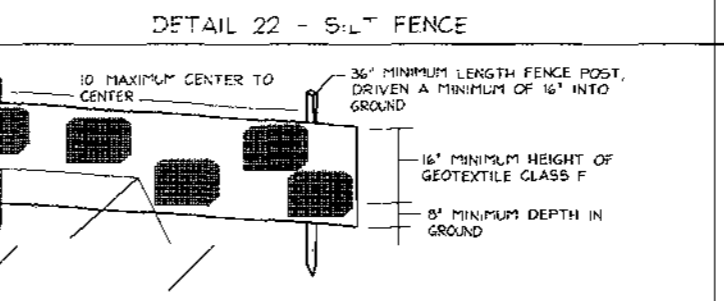
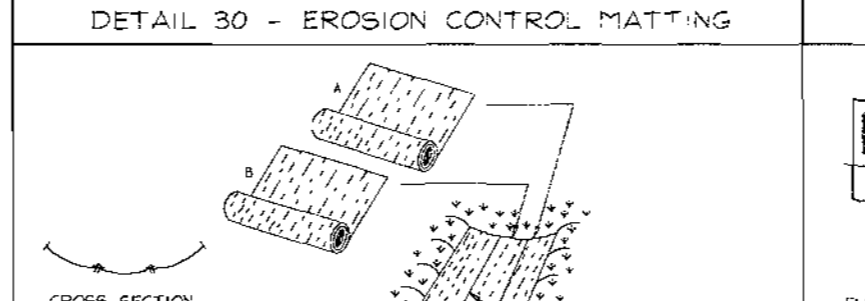
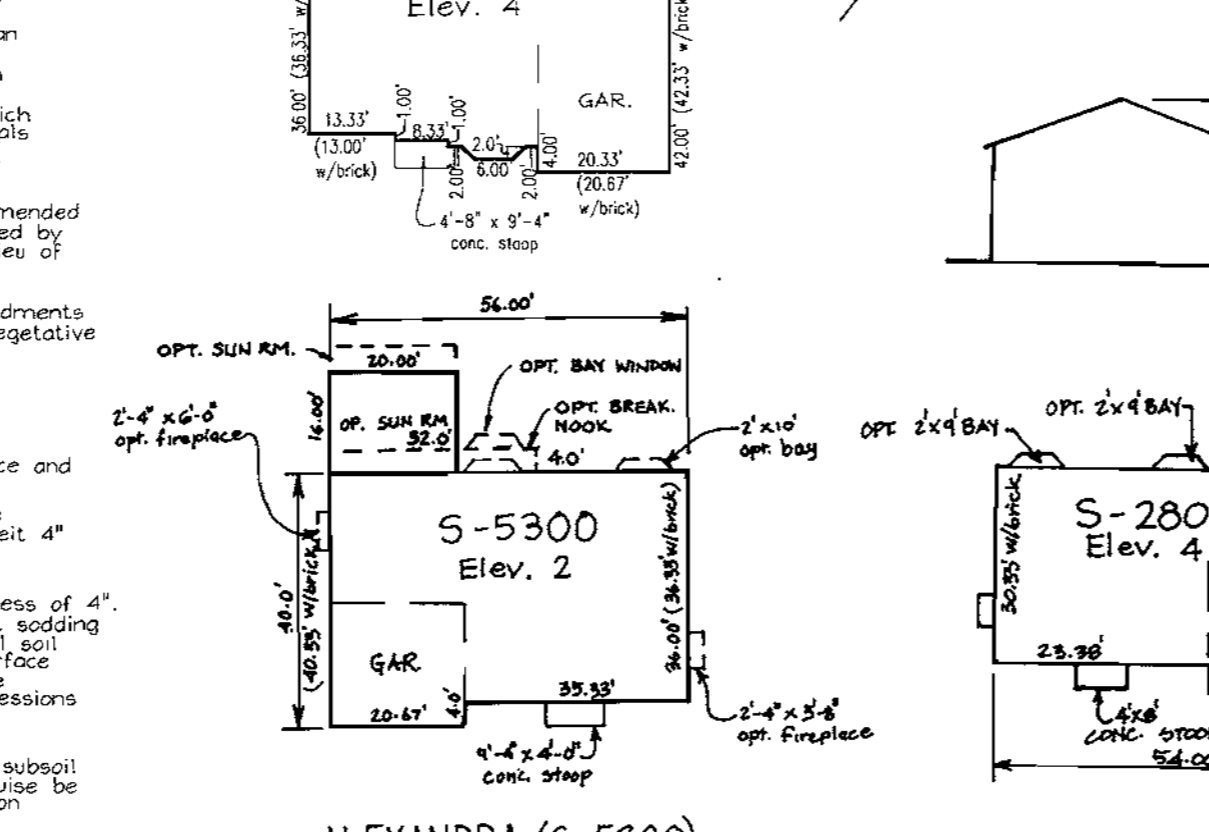
**Construction and Material Specifications**

- Topsoil salvaged from the existing site may be used provided that it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, all loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textures, subsoils and shall contain less than 2% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 inch 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.
  - Layers of subsoil, either heavy silt or compacted, must be broken up and amended. The amendment shall be spread at the rate of 4,000 pounds (2,000 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 over 5 acres:
    - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
    - For sites having disturbed areas over 5 acres:
      - On soil meeting topsoil specifications, obtain test results detailing fertilizer and lime amendments required to bring the soil into conformance with the following:
        - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
        - Organic content of topsoil shall be not less than 1.5 percent by weight.
        - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
        - No nod or sand shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control and which sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
      - 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 seeding or seeding can proceed with a minimum of additional soil preparation and tillage. Irregularities in the surface resulting from topsoiling or other operations shall be smoothed in order to prevent the formation of depressions or water pockets.
      - Topsoil shall not be placed while 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 seeded preparation.
    - Topsoil Application:
      - 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" 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 seeding or seeding can proceed with a minimum of additional soil preparation and tillage. Irregularities in the surface resulting from topsoiling or other operations shall be smoothed in order to prevent the formation of depressions or water pockets.
      - Topsoil shall not be placed while 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 seeded preparation.



**HOUSE TYPES**

SCALE: 1"=30'



**Construction Specifications:**  
 1. Roll out the matting by placing the top edge of the matting on a narrow trench, 6" in depth. Roll the trench out evenly to conform to the stabil matting. Secure with a row of staples about 4' down slope from the trench. Spacing between staples is 6".  
 2. Staple the 4" overlap in the channel center using an 18" spacing between staples.  
 3. Before stabilizing the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.  
 4. Staples shall be placed 2' apart with 4' rows for each strip, 2' apart, and 2' alternating rows about the center.  
 5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4". Where fabric overlaps, secure the overlap with a double row of staples spaced 4' apart in a staggered pattern on either side.  
 6. The discharge end of the matting liner shall be similarly secured with 2 double rows of staples.  
 Note: If flow will enter from the edge of the matting then the area affected by the flow must be keyed-in.

**Construction Specifications:**  
 1. Fence posts shall be a minimum of 3/4" thick driver 1/2" diameter. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) or 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be aluminum 1" or 1 1/2" section with a minimum of 1,000 psi yield strength. Posts shall be spaced 30' apart.  
 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at the top and mid-point and shall meet the following requirements for Geotextile Class:  
 a. Tensile Strength: 50 lbs./in. (min.) Test: ASTM 508  
 b. Tensile Elongation: 20% (max.) Test: ASTM 508  
 c. Pile Rupture: 120 lbs./in. (min.) Test: ASTM 322  
 d. Filtering Efficiency: 75% (min.) Test: ASTM 322  
 3. Where ends of geotextile fabric come together, they shall be overlapped.  
 4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.  
 5. The discharge end of the matting liner shall be similarly secured with 2 double rows of staples.

**Construction Specifications:**  
 1. Length - minimum of 50' (+50' for single residence lot).  
 2. Width - 10' minimum, should be stored at the existing road to provide a turning radius.  
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground or on grading stone. If the plan approval requires stone, the stone shall be placed on the existing ground or on grading stone.  
 4. Stone - crushed aggregate (3" to 3 1/2") or reclaimed or recycled concrete equivalent shall be placed at least 4" deep over the length and width of the entrance.  
 5. Surface water - all surface water flowing to an elevated road construction entrance shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a manhole or vault with a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SILE is located on a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.  
 6. Location - A stabilized construction entrance shall be located at every road where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

**SEQUENCE OF CONSTRUCTION:**  
 1. Obtain grading permit.  
 2. Notify Howard County Planning, Inspections and Permits (410-913-1880).  
 3. Construct Stabilized Construction Entrance (1 day).  
 4. Install silt fence, super silt fence, and erosion control matting. Utilize existing sediment control structures under F-99-76 & F-99-76, including Existing Sediment Basin No. 1. Repair or replace existing controls as necessary for adequate function. (2 days).  
 5. After obtaining permission from the sediment control inspector to proceed, rough grade site.  
 6. Construct house. The final floor elevation cannot be more than 1" higher on 5' slope than the elevations shown on this plan. The foundation footings must be within the generic setback.  
 7. Final lot grade to be in substantial conformance with site development plan.  
 8. During grading and other earth disturbing activities, the contractor shall inspect and provide the necessary maintenance on the sediment control structures on the project throughout the construction.  
 9. Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within:  
 A. 7 calendar days for perimeter sediment control structures.  
 B. 14 calendar days for all other disturbed areas, slopes and all slopes greater than 3:1.  
 10. Upon stabilization of all disturbed areas, the contractor shall, with the approval of the sediment control inspector, remove all sediment control devices, install storm drain system and convert existing sediment basin to stormwater management facility No. 1 at stormwater management facility No. 1.

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division  
 Chief, Division of Land Development  
 Reg. Sec.  
 1/9/01 DATE  
 1/22/01 DATE  
 1/26/01 DATE

**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: Robert H. Vogel  
 DATE: 11/20/00

**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: Joseph P. ...  
 DATE: 8/12/00

**REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS**  
 Signatures of reviewers and dates: 1/2/01, 1/2/01.

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GULLFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

**DETAIL SHEET HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #182 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS, SURVEYORS & PLANNERS  
 3691 Park Avenue, Suite 110 • 4th Floor, Maryland 21043  
 Tel: 410-681-5819 • Fax: 410-685-1996

|            |          |
|------------|----------|
| DESIGN BY  | GAH      |
| DRAWN BY   | GAH      |
| CHECKED BY | RH       |
| DATE       | 4-8-01   |
| SCALE      | AS SHOWN |
| NO. NO     | 10-10    |

10 SHEET OF 10






| NO. | REVISION                        | DATE    |
|-----|---------------------------------|---------|
| 6   | REVISE HOUSE MODELS LOTS 50A-60 | 1-8-03  |
| 5   | REVISE HOUSE MODEL LOT 60       | 12-4-02 |
| 4   | REVISE HOUSE MODEL LOT 59       | 10-3-02 |
| 3   | REVISE HOUSE MODEL LOT 70       | 10-1-02 |
| 2   | REVISE HOUSE MODEL LOT 53       | 6-6-02  |
| 1   | REVISE HOUSE MODEL LOT 52       | 4-1-02  |

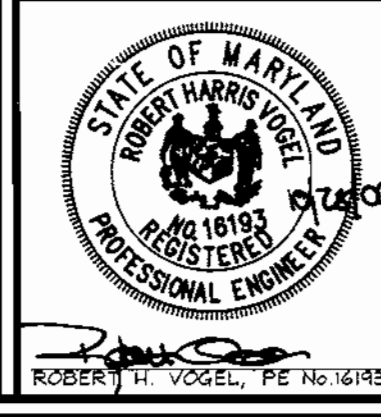
**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
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 19, 21-23, 30-34, 39, 40 45, 47 & 48;  
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 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

  
**VOGEL & ASSOCIATES**  
 ENGINEERS/SURVEYORS/PLANNERS  
 3691 Park Avenue, Suite 101 • Elkott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3966 E-mail: VOGELASSOCIATES@GCS.COM

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

 1/10/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
 1/22/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
 1/24/01  
 DIRECTOR DATE

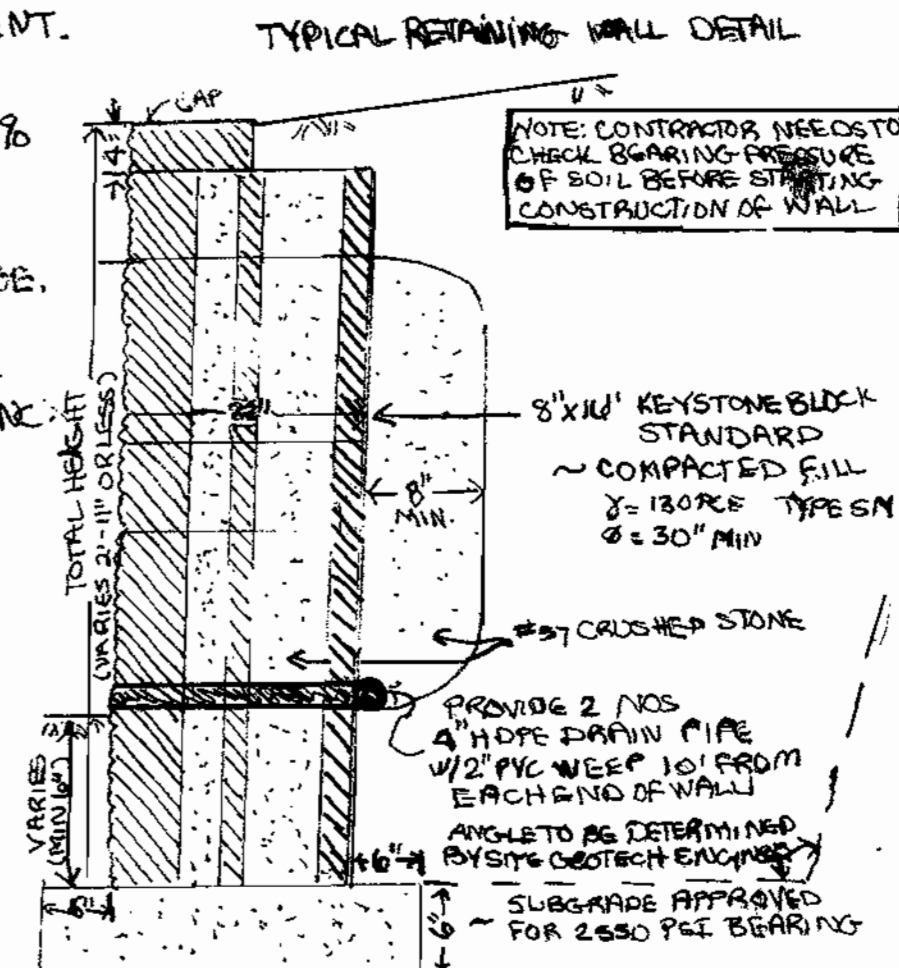
OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO



DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHW  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129



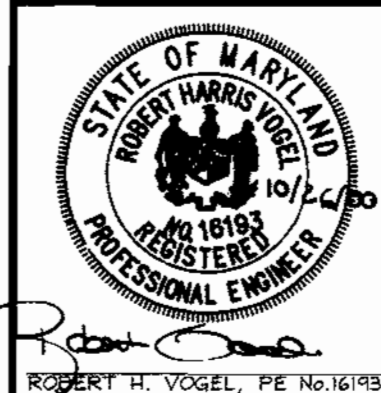
- RET. WALL NOTES**
1. PROVIDE 6" MIN. EMBEDMENT.
  2. ALL BACKFILL MATERIALS TO BE COMPACTED TO 95% MAX. DENSITY.
  3. FINISHED GRADES MUST PROVIDE POSITIVE DRAINAGE.
  4. RETAINING WALL SHALL BE MANUFACTURED BY GARFITH BROTHERS LANDSCAPING, INC. OR APPROVED EQUIVALENT.



| NO. | REVISION   | DATE     |
|-----|--|----------|
| 6   | REVISE HOUSE AND GRADING ON LOT 40 TO AS-BUILT CONDITION | 11.5.02  |
| 5   | ADD RET. WALL, REVISE GRADING LOT 33                     | 9-9-02   |
| 4   | REVISE HOUSE MODEL LOT 32                                | 7-24-02  |
| 3   | REVISE HOUSE MODEL AND EASEMENT LOT 40                   | 4.9.02   |
| 2   | REVISE HOUSE MODEL AND EASEMENT LOT 39                   | 4.9.02   |
| 1   | REVISE HOUSE TYPE LOT 45                                 | 12/13/01 |

**SITE DEVELOPMENT PLAN  
HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
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 68 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #182 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

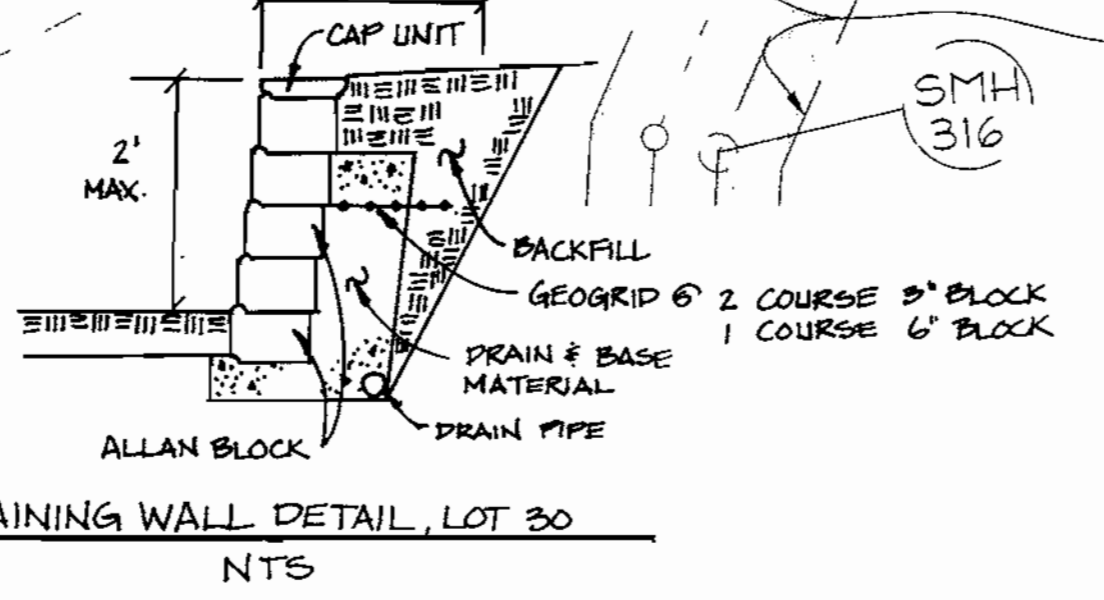
**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3891 Park Avenue, Suite 101 • Elliott City, Maryland 21043  
 Tel 410.461.5828 Fax 410.465.3965



DESIGN BY: GAH  
 DRAWN BY: GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

5 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 10/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 [Signature] 11/20/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 [Signature] 1/26/02  
 DIRECTOR



| NO. | REVISION                             | DATE     |
|-----|--------------------------------------|----------|
| 7   | ADD RETAINING WALL & DETAIL - LOT 30 | 03-18-03 |







| NO. | REVISION                         | DATE    |
|-----|----------------------------------|---------|
| 7   | REVISE HOUSE MODEL LOT 51        | 4.22.03 |
| 6   | REVISE HOUSE MODELS LOTS 50 & 60 | 1.8.03  |
| 5   | REVISE HOUSE MODEL LOT 60        | 12.9.02 |
| 4   | REVISE HOUSE MODEL LOT 59        | 10.3.02 |
| 3   | REVISE HOUSE MODEL LOT 70        | 10.1.02 |
| 2   | REVISE HOUSE MODEL LOT 53        | 6.6.02  |
| 1   | REVISE HOUSE MODEL LOT 52        | 4.9.02  |

**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
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 TAX MAP #18 GRID #142 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
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 3591 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3966 E-mail: VOGLASSOCIATES@CS.COM

DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RMV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W/O NO: 99-129

4 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Chibi Dammann* 1/10/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hancock* 1/22/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Jan S. Sante* 1/24/01  
 DIRECTOR DATE

OWNER/DEVELOPER  
 BEAZER HOMES  
 8965 GUILFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO

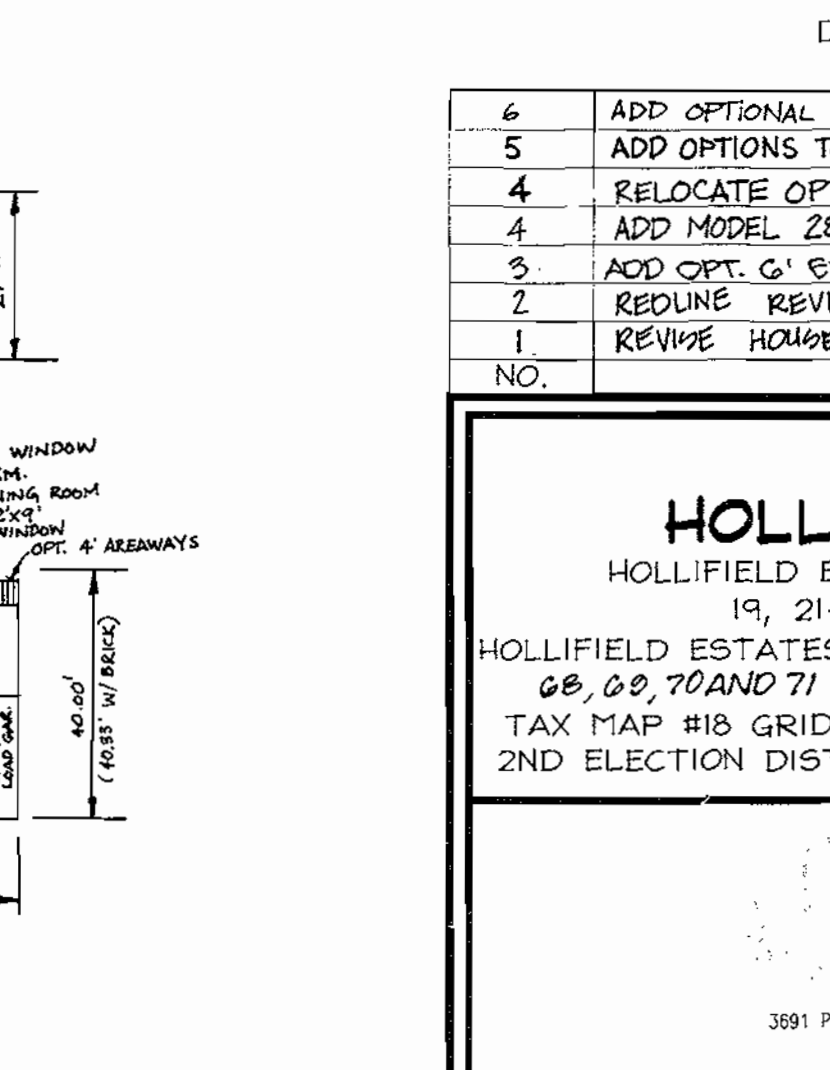
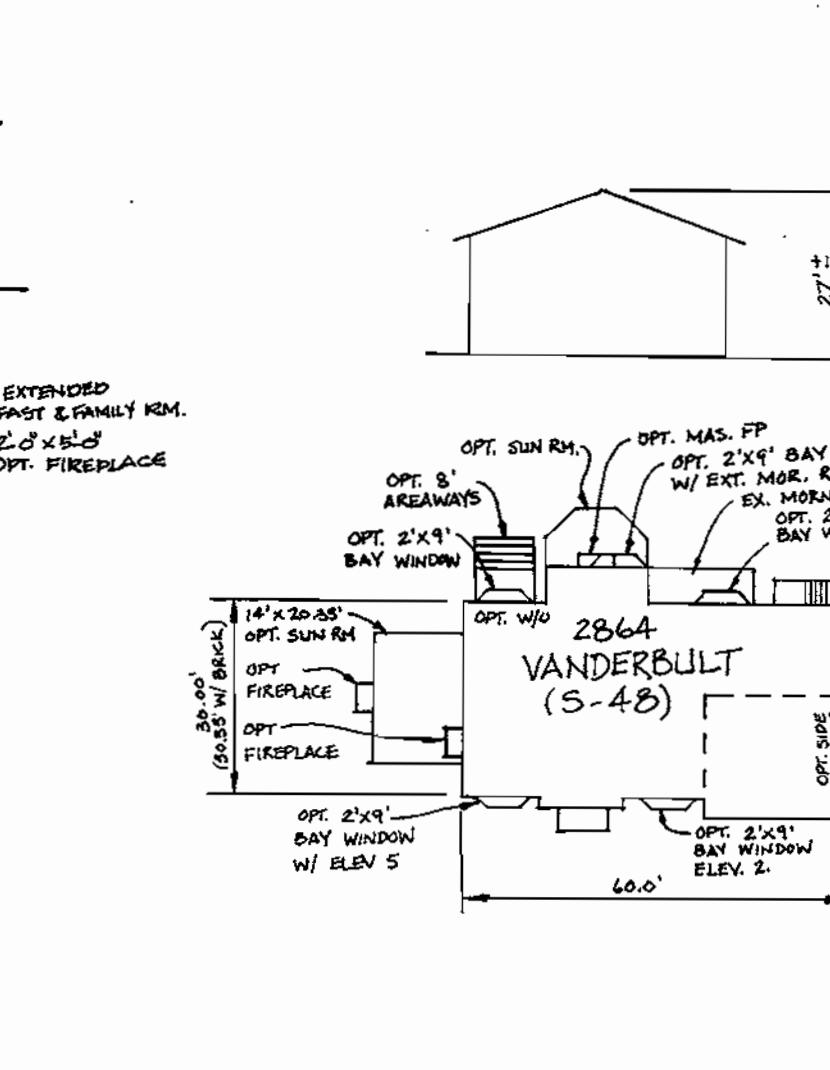
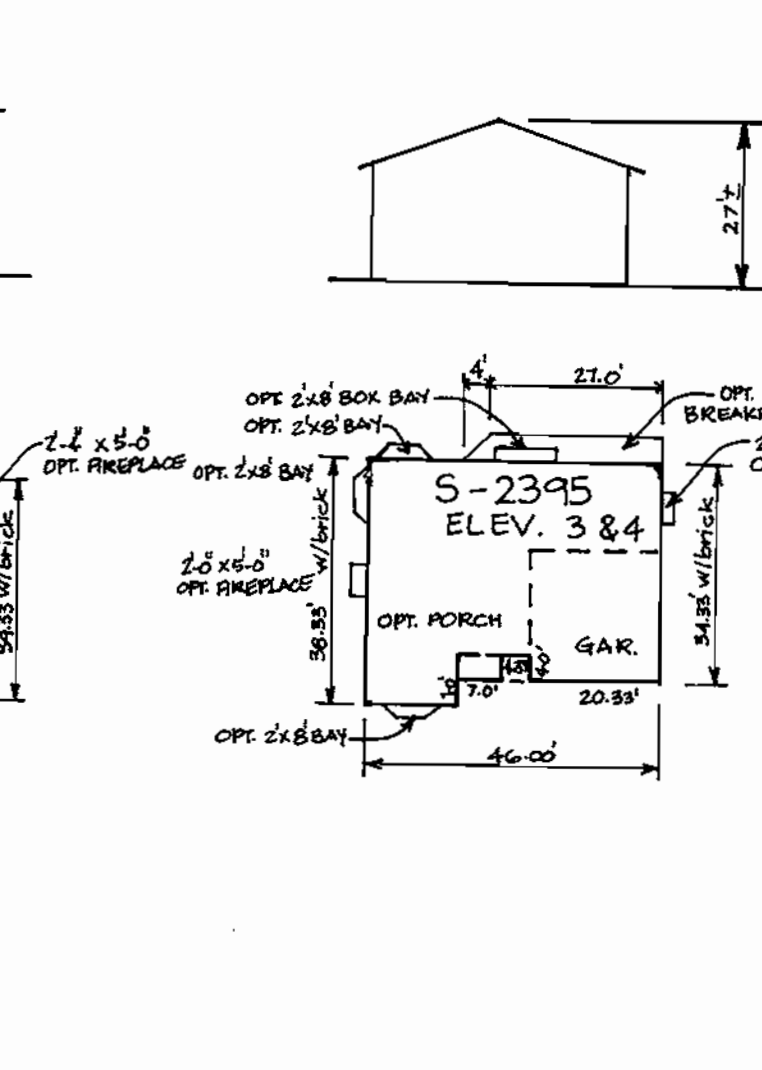
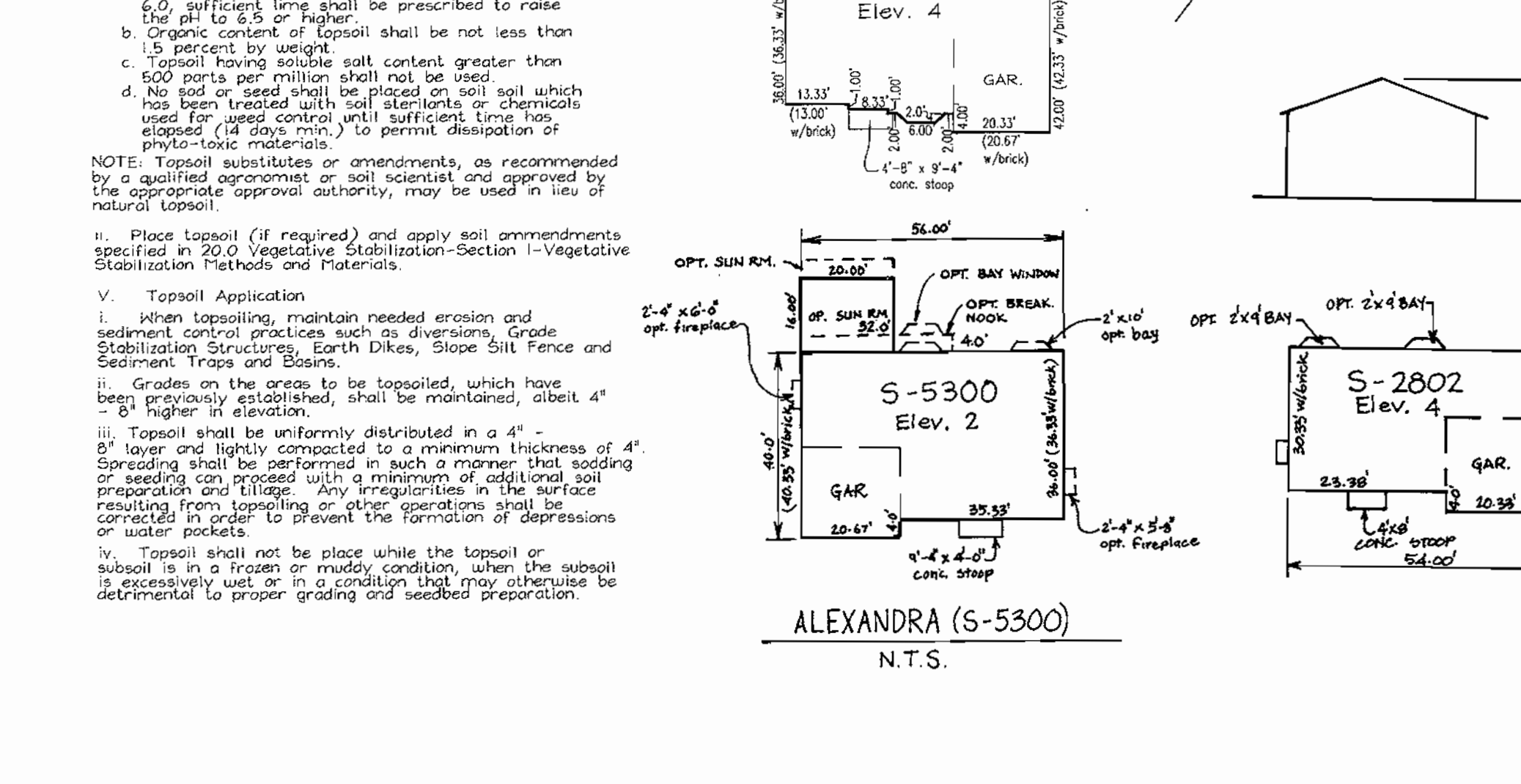
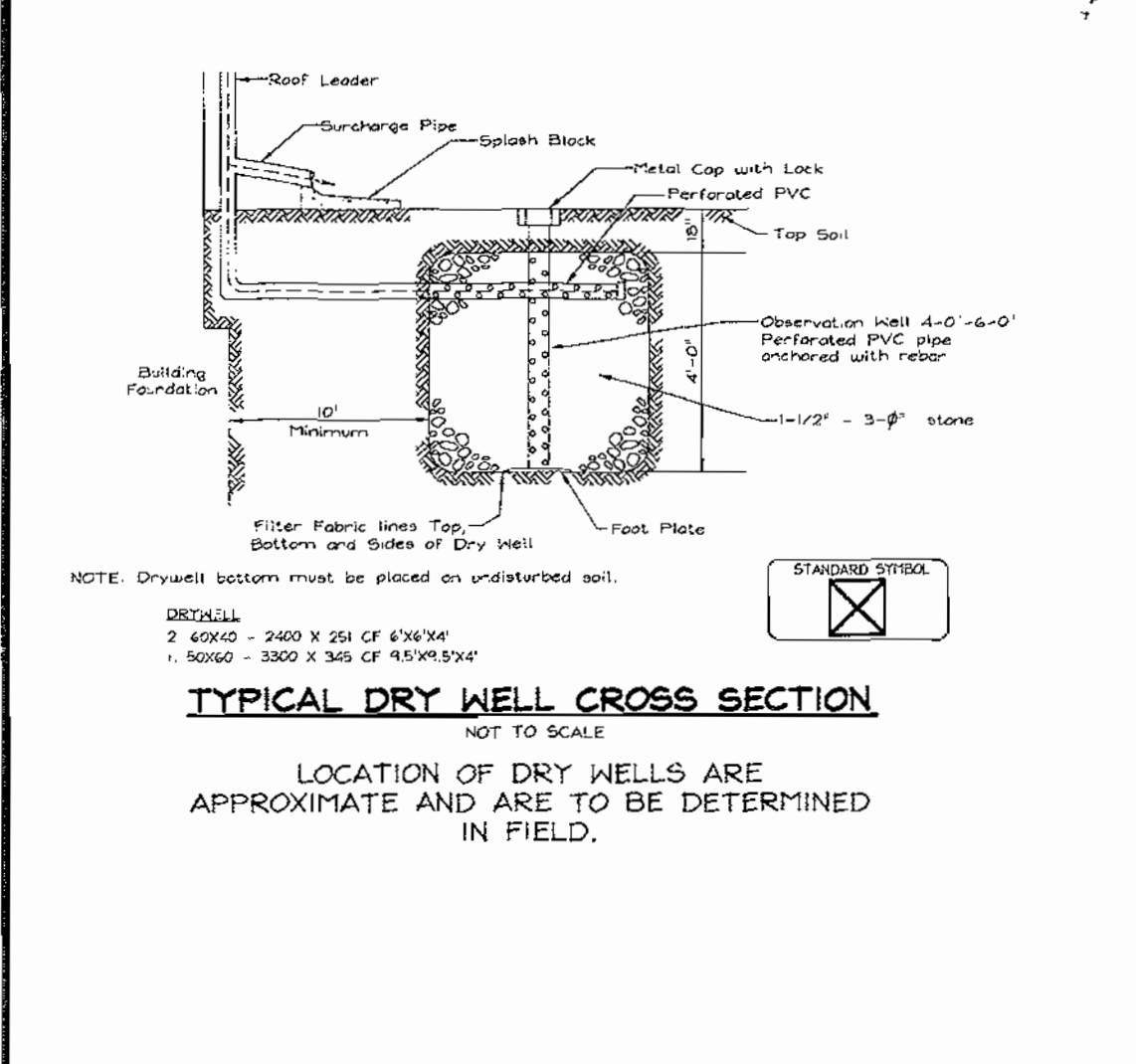
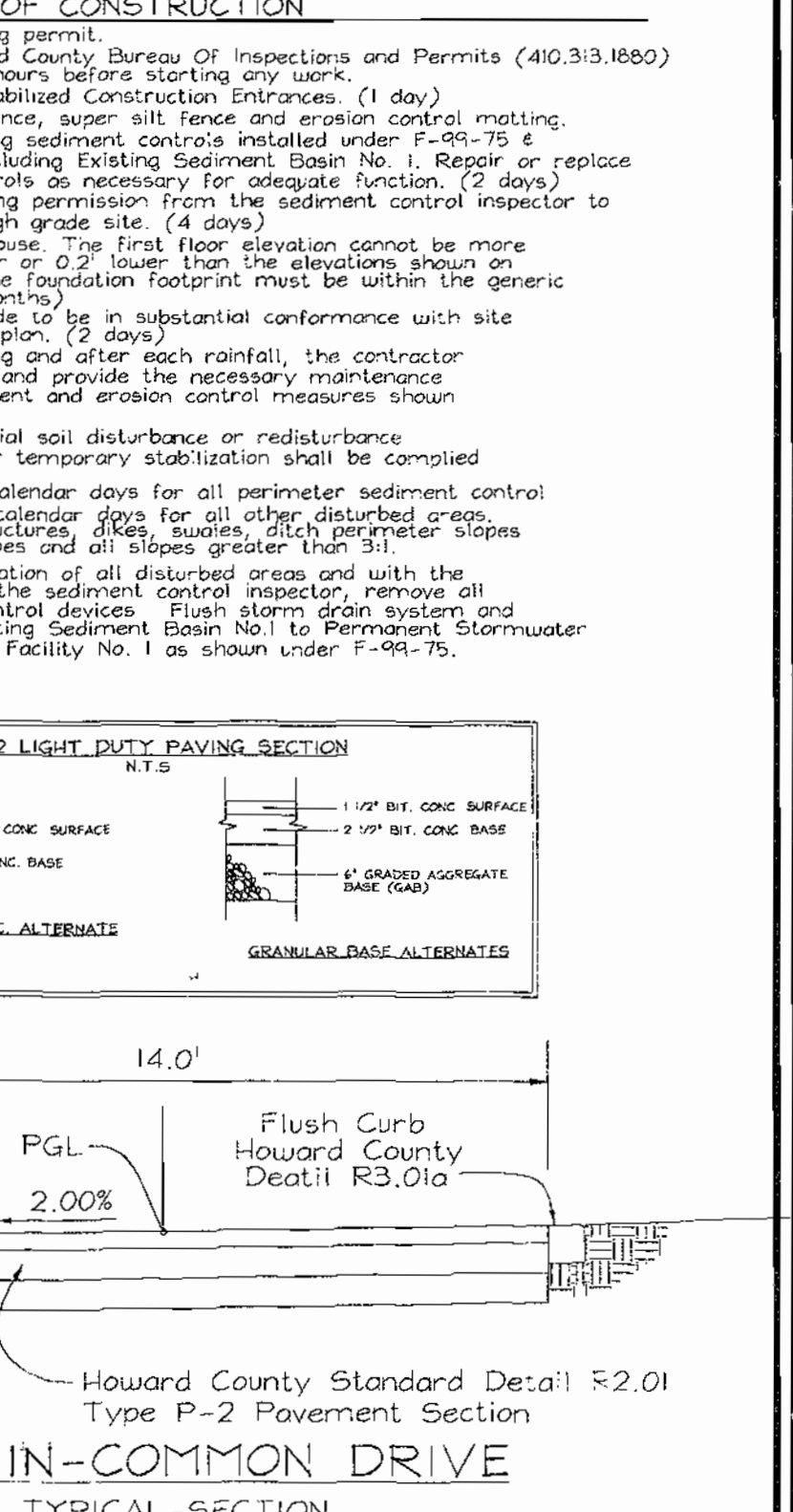
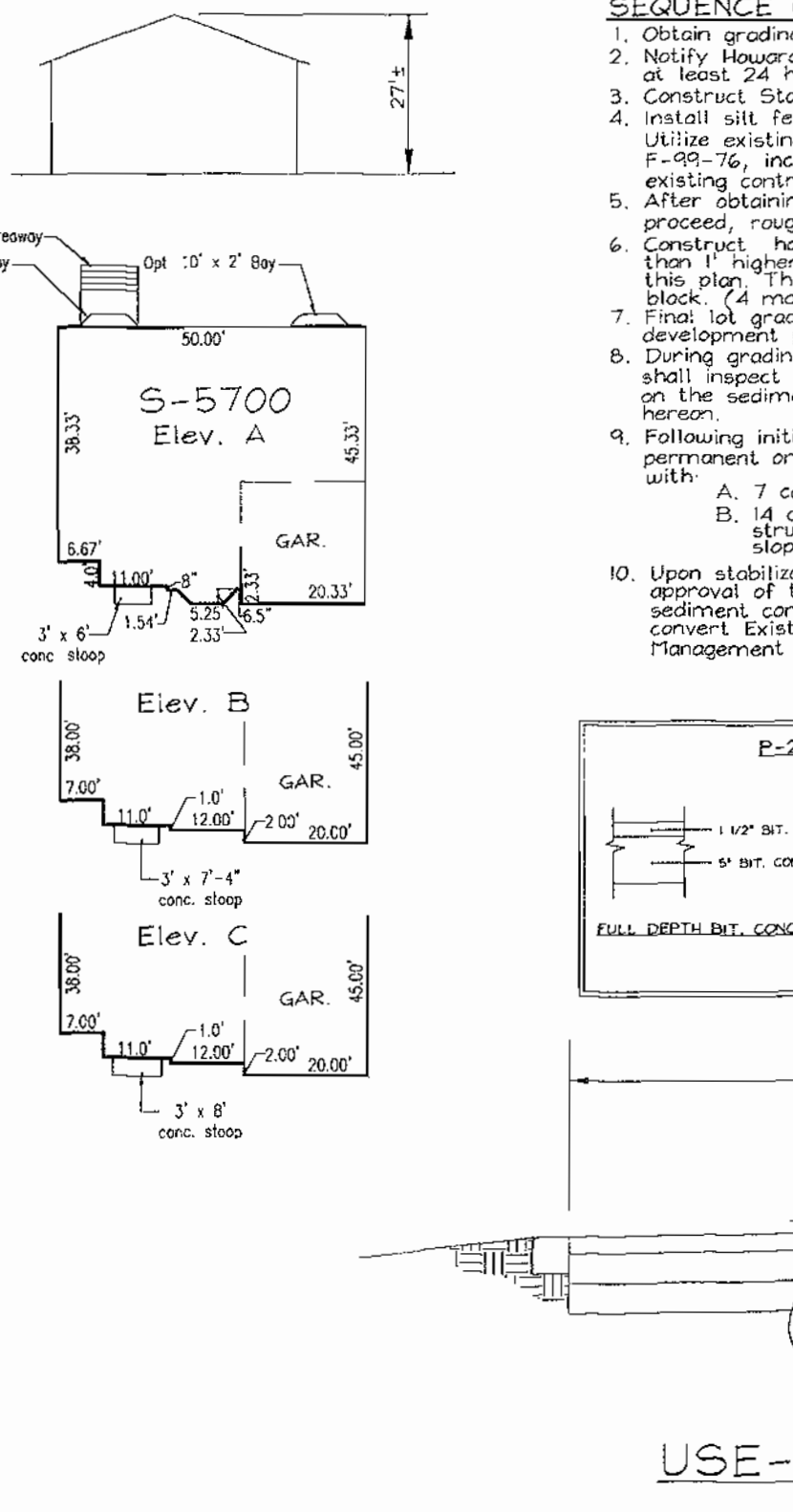
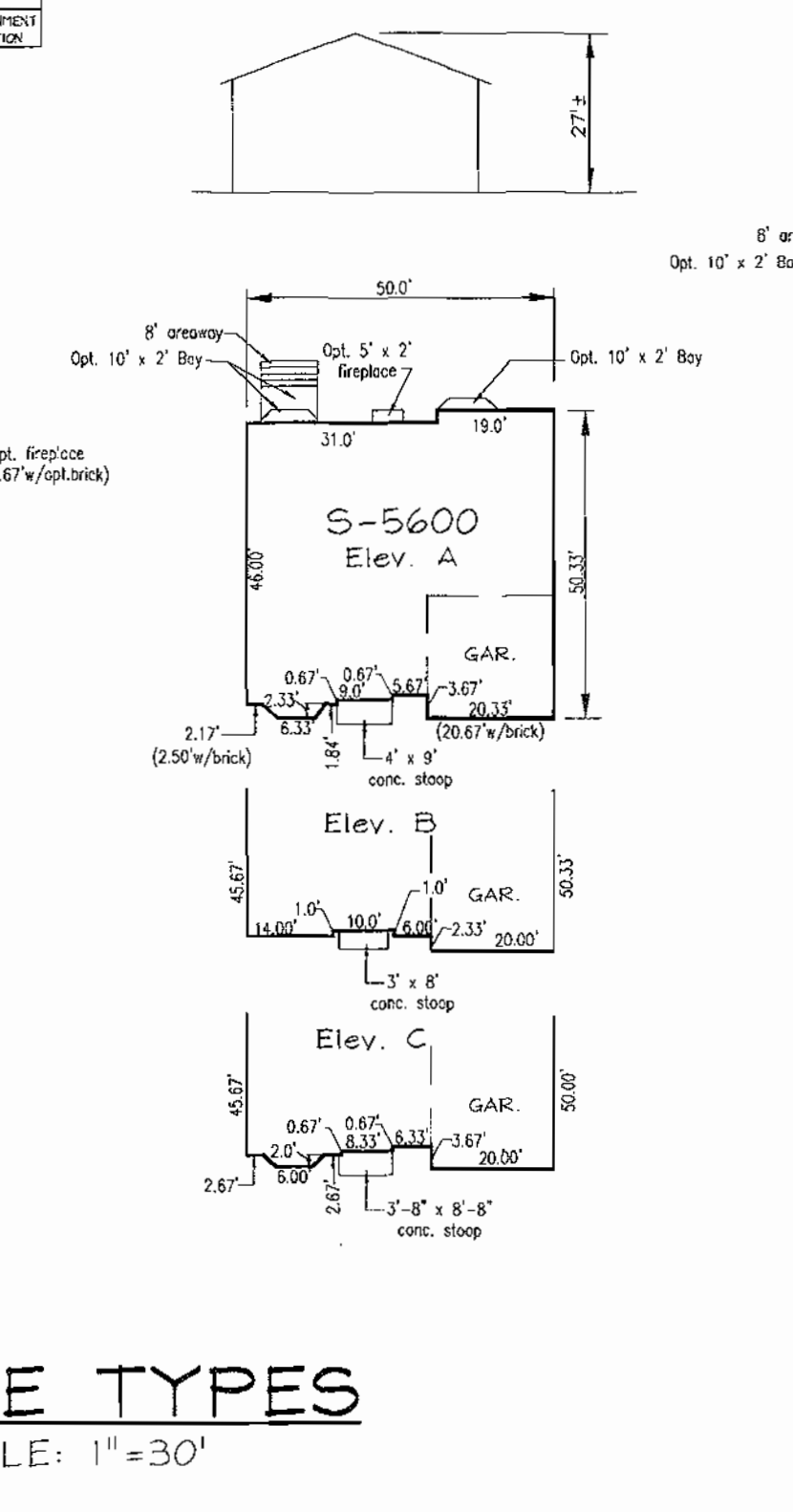
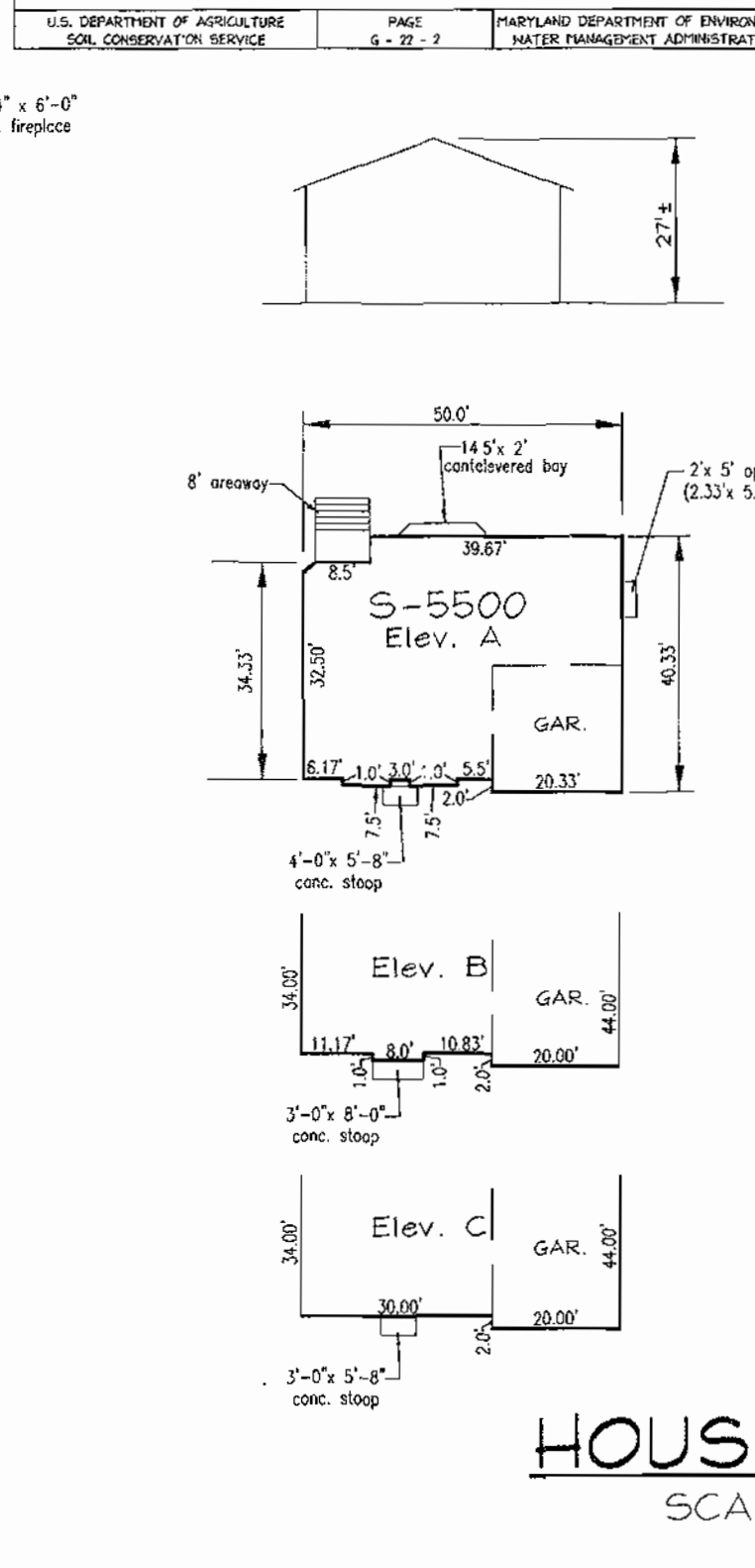
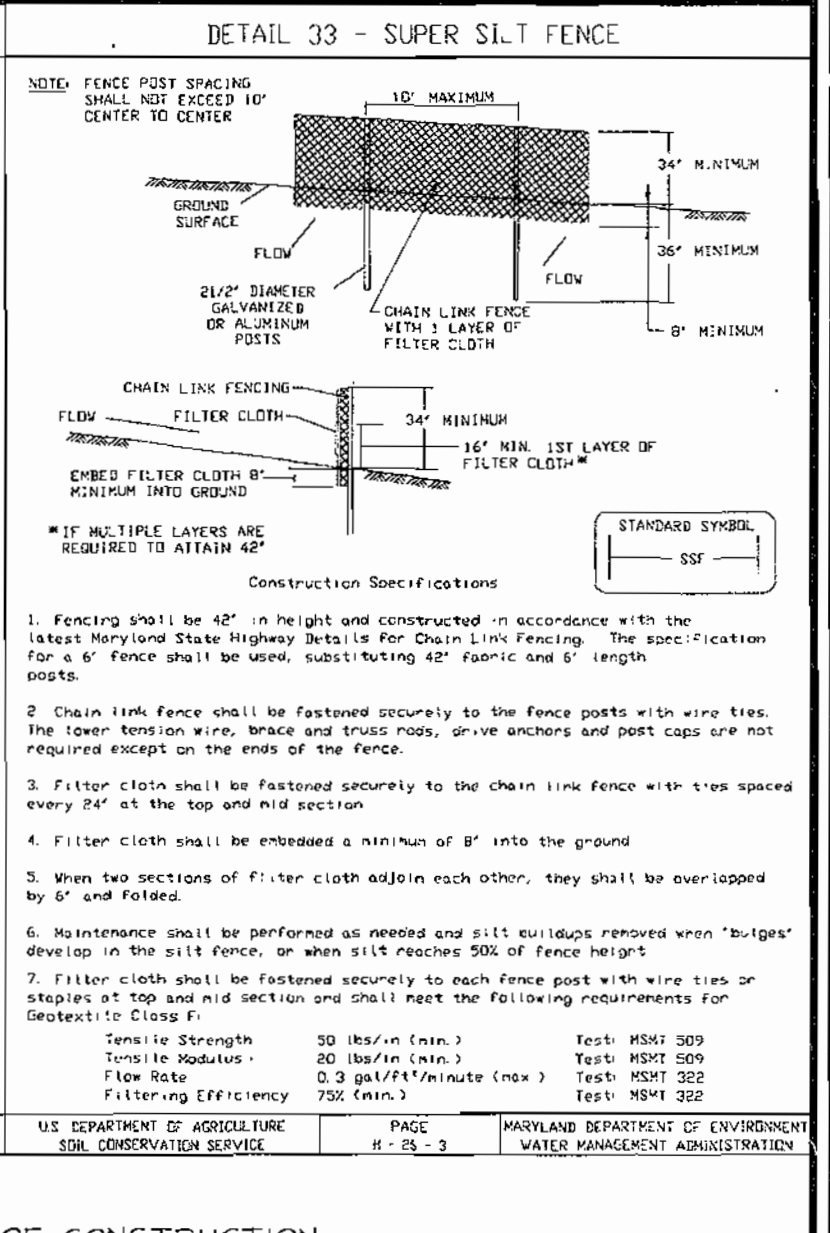
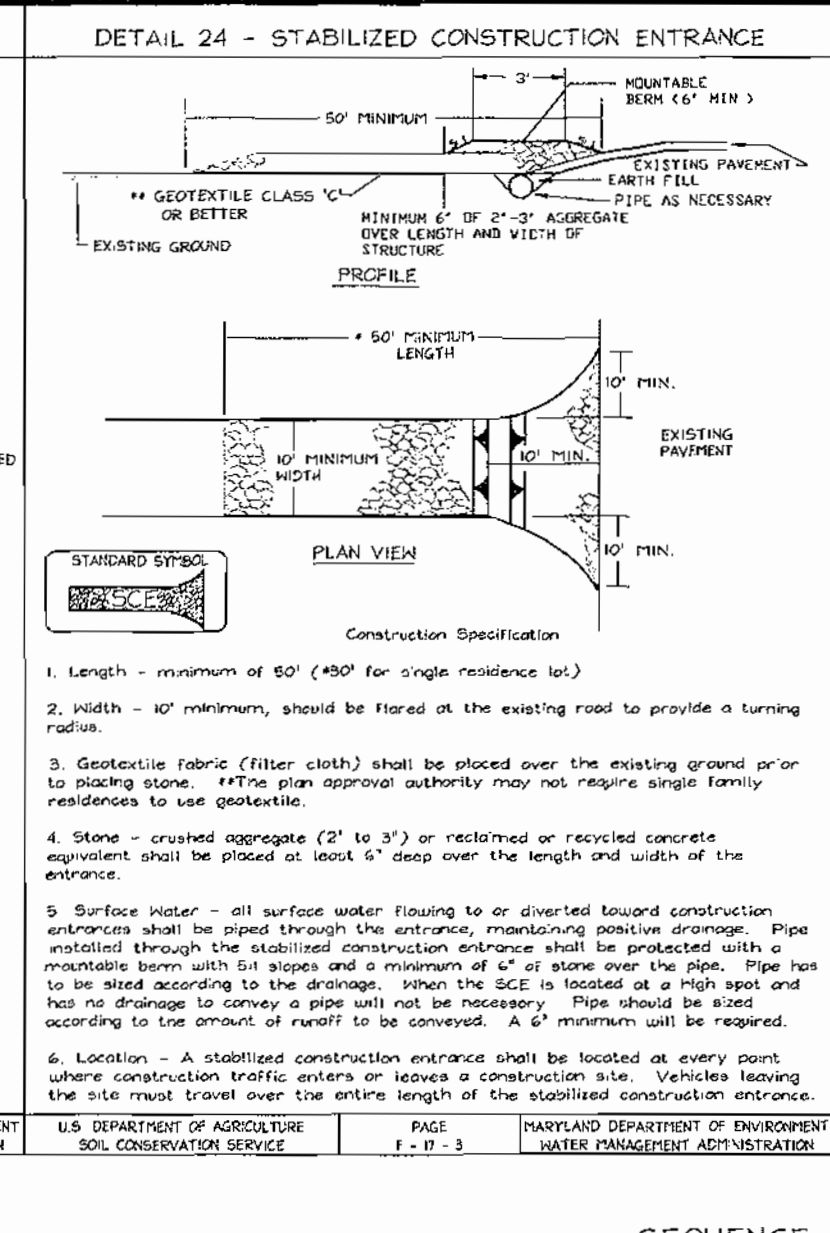
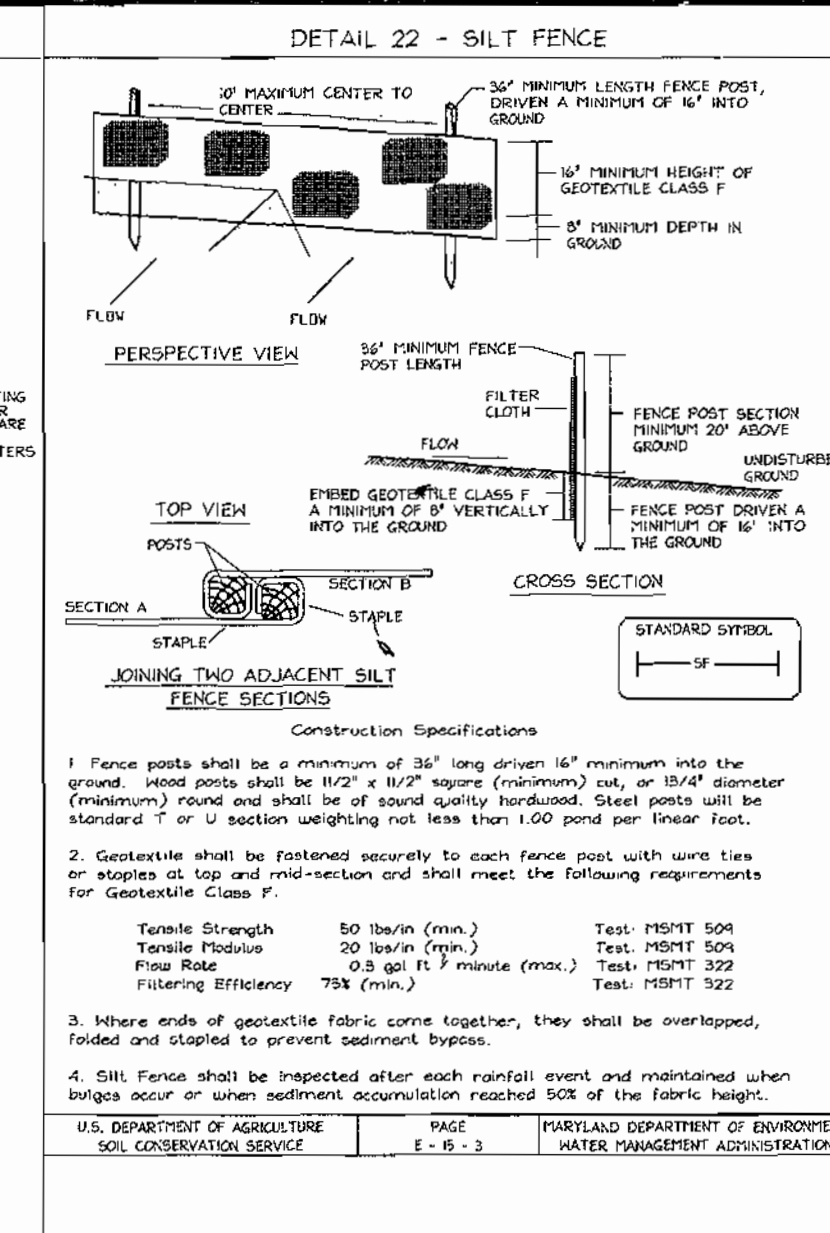
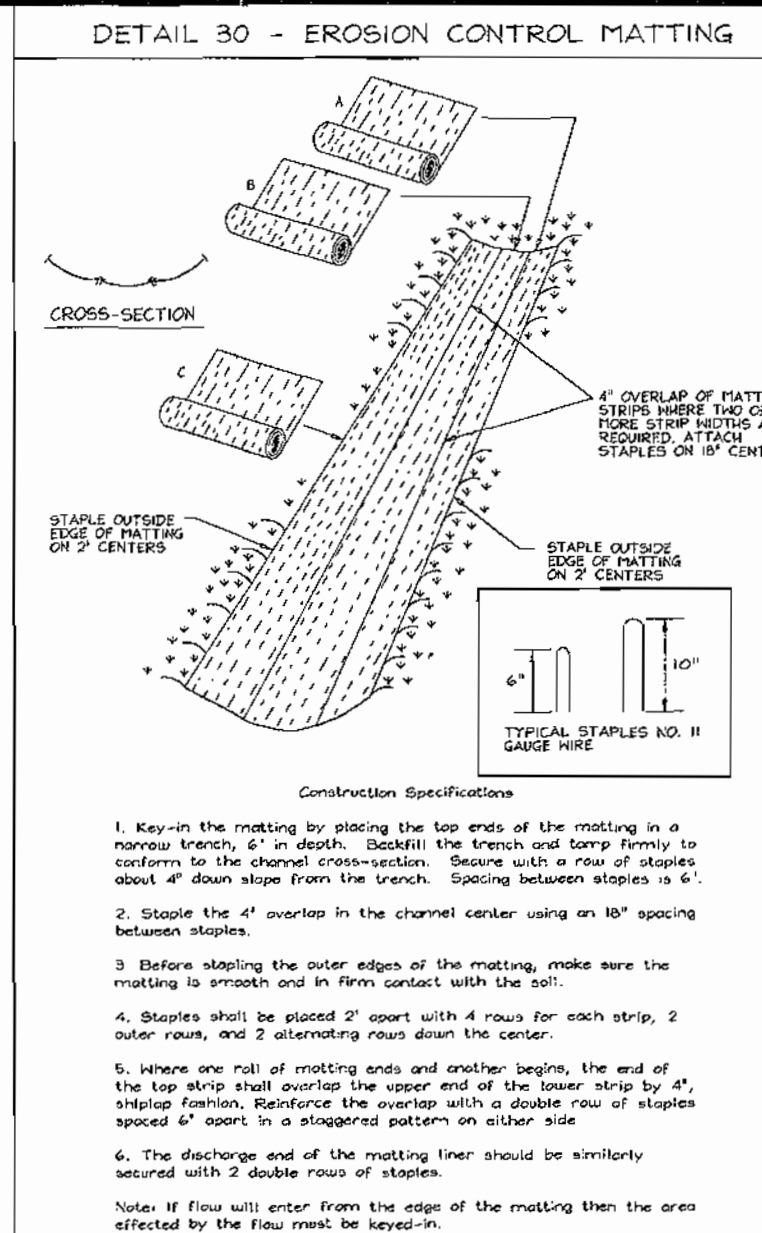
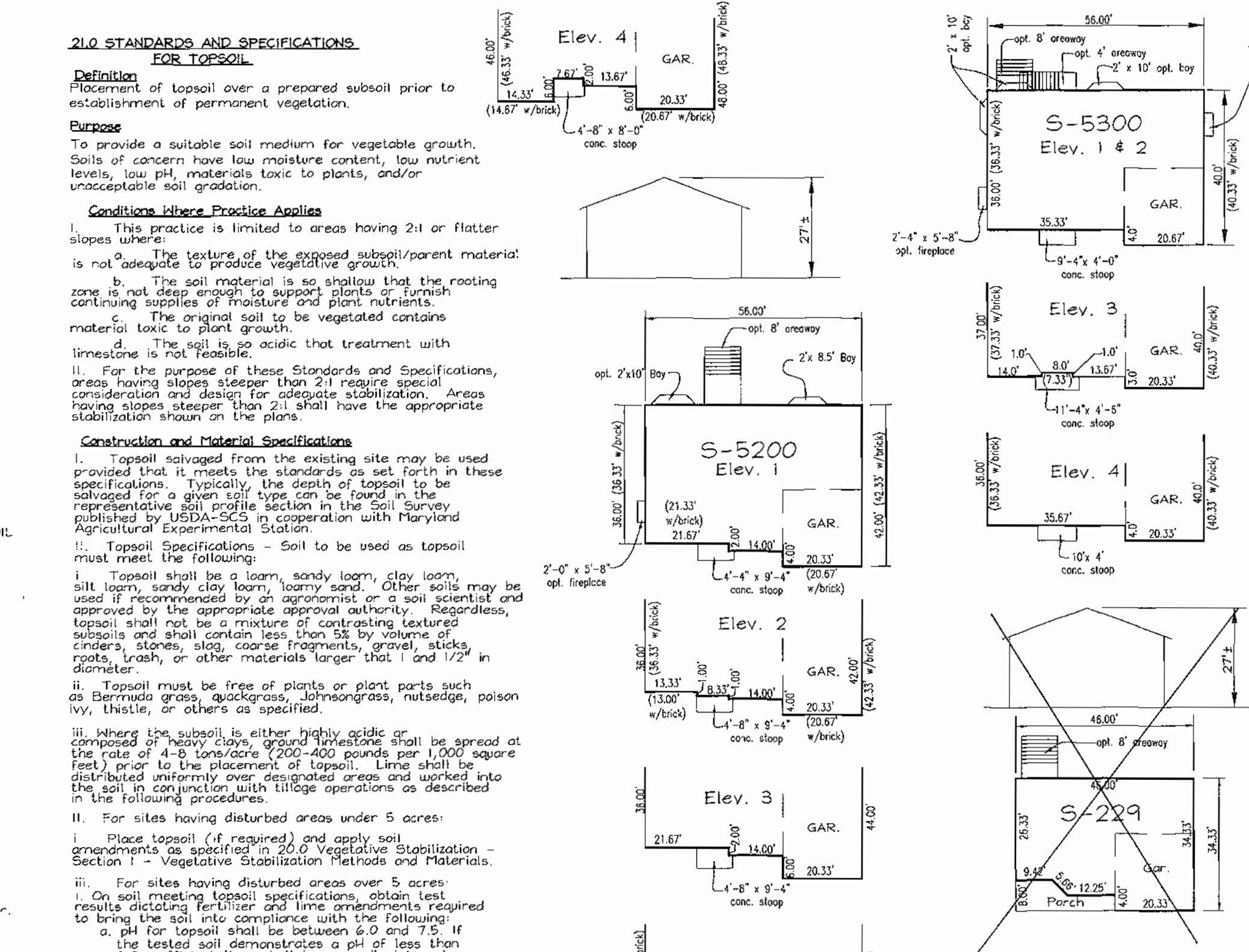
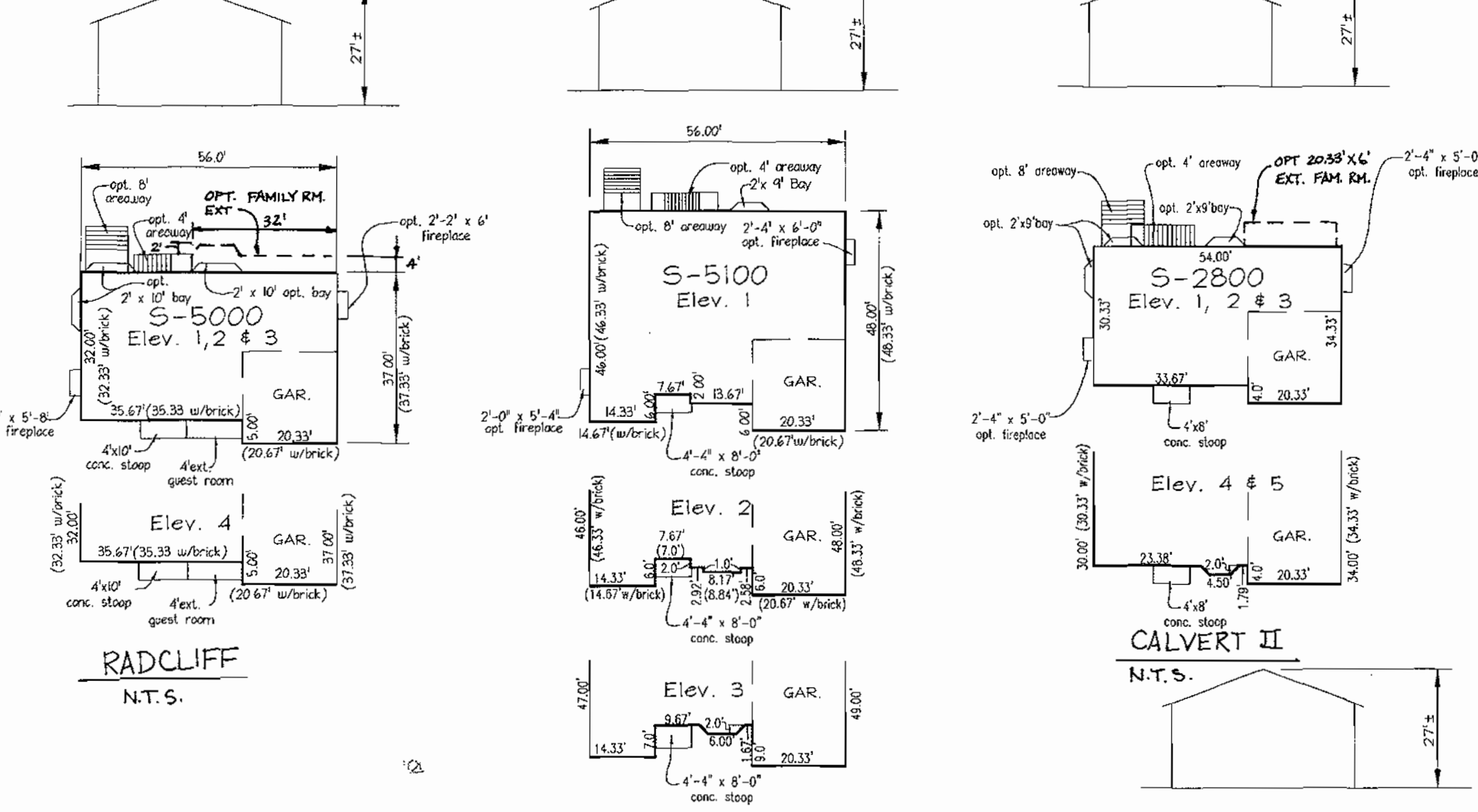
TEMPORARY SEEDING PERMANENT SEEDING NOTES 210 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Apply to graded or cleared areas likely to be redistributed where a short-term 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: Apply 800 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 2 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 (0.7 lbs./1000 sq. ft.). For the period November 16 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. Mowing: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrattled 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 slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring. Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened. Soil Amendments: Use one of the following schedules: 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 800 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper 3 inches of soil. At time of seeding apply 400 lbs. per acre 30-0-0 ureiform fertilizer (9 lbs./1000 sq. ft.). 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Maintenance: Inspect all seeded areas, and make needed repairs, replacements, or reseedings. 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 50 lbs. of Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 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 of well-anchored straw mulch, and seed as soon as possible in the spring. Option 2 - Use sod. Option 3 - Seed with 50 lbs. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw. Mowing: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of unrattled 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.

210 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 unacceptable soil gradation. Conditions Where Practice Applies: This practice is limited to areas having 21 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so alkaline that the rooting zone is not deep enough to support plants of sufficient containing supplies of moisture and plant nutrients. c. The original soil to be vegetated contains material toxic to plant growth. Construction and Material Specifications: I. Topsoil salvaged from the existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for given types can be determined from the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station. II. Topsoil Specifications - Soil to be used as topsoil must meet the following: 1. 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, 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, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter. 2. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, johnsongrass, nutgrass, poison ivy, thistle, or others as specified. 3. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at a rate of 4-8 tons/acre (200-400 pounds per 1000 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: i. For sites having disturbed areas under 5 acres: 1. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. 2. For sites having disturbed areas over 5 acres: a. On soil meeting topsoil specifications, obtain test results including fertilizer and lime amendments required to bring the soil into compliance with the following: i. a pH for topsoil shall be between 6.5 and 7.5. If the tested soil demonstrates a pH of less than 6.5, the soil sufficient lime shall be prescribed to raise the pH to 6.5 or higher. ii. Organic content of topsoil shall be not less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soil which has been treated with soil stabilizers that may be used for weed control until sufficient time has elapsed (45 days min.) to permit dissipation of phytotoxic materials. 4. Topsoil substitution 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. 5. Place topsoil (if required) and apply soil amendments specified in 20.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and Materials. V. Topsoil Application: 1. 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. 2. Grades on the areas to be topsoiled, which have previously established, shall be maintained, at least 4" - 8" higher in elevation. 3. Topsoil shall be uniformly distributed in a 4" - 6" depth and lightly compacted to a minimum thickness of 4". Seeding shall be performed in such a manner that sodding or seeding can proceed with a minimum of soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or tillage operations shall be corrected in order to prevent the formation of depressions or water pockets. 4. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that any disturbance be detrimental to proper grading and seedbed preparation.



| NO. | REVISION   | DATE     |
|-----|--|----------|
| 4   | ADD OPTIONAL FAMILY ROOM EXT. TO RADCLIFF (S-5300) | 11/21/02 |
| 5   | ADD OPTIONS TO ALEXANDRA (S-5300)                  | 11/17/01 |
| 4   | RELOCATE OPT. G' EXTENSION TO MODEL S-2800         | 8/16/01  |
| 4   | ADD MODEL 2864 (VANDERBULT)                        | 8/16/01  |
| 3   | ADD OPT. G' EXTENSION TO MODEL S-2800              | 6/7/01   |
| 2   | REDUCE REVISION ON LOTS 5, 6, 11, 12, 15           | 4/13/01  |
| 1   | REVISE HOUSE MODEL LOT 19.                         |          |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Chief, Development Engineering Division: [Signature] 10/01. Chief, Division of Land Development: [Signature] 1/22/01. Director: [Signature] 1/26/01.

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: Robert H. Vogel. Date: 8/17/00.

DEVELOPER'S CERTIFICATE. I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE 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. Signature of Developer: Joseph D. DeLino. Date: 8/17/00.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS. Signature of Reviewer: [Signature]. Date: 1/2/01.

OWNER/DEVELOPER. BEZIER HOMES. 8965 GUILDFORD ROAD, SUITE 290. COLUMBIA, MARYLAND 21046. 410-720-5071. ATTN: JOE FORTINO.

DETAIL SHEET HOLLIFIELD ESTATES. HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48; HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15. TAX MAP #18 GRID #142. PARCELS NO. 1 & 373. 2ND ELECTION DISTRICT. HOWARD COUNTY, MARYLAND. VOGEL & ASSOCIATES ENGINEERS SURVEYORS & PLANNERS. 3891 Perkiomen, Suite 101 • Ellicott City, Maryland 21043. Tel: 410.461.5878 Fax: 410.460.3966. DESIGN BY: GAH. DRAWN BY: GAH. CHECKED BY: RHV. DATE: August 17, 2000. SCALE: As Shown. W.O. NO.: 99-129. 10 SHEET OF 10.



| NO. | REVISION  | DATE    |
|-----|---|---------|
| 8   | Removed 24' of Ex. 15' HDPE & Str. I-30 between I-30 & I-39, abandoned part of the Ex. 20' Public Storm Drain & Utility Eas't located on Lots 56, 57 & Open Space Lot 61 and created a Private 20' Storm Drain & Utility Eas't on Lots 58 & 59. | 4.9.07  |
| 7   | REVISE HOUSE MODEL LOT 51   | 4.22.03 |
| 6   | REVISE HOUSE MODELS LOTS 50&60  | 1.8.03  |
| 5   | REVISE HOUSE MODEL LOT 60   | 12.9.02 |
| 4   | REVISE HOUSE MODEL LOT 59   | 10.3.02 |
| 3   | REVISE HOUSE MODEL LOT 70   | 10.1.02 |
| 2   | REVISE HOUSE MODEL LOT 53   | 6.6.02  |
| 1   | REVISE HOUSE MODEL LOT 52   | 4.9.02  |

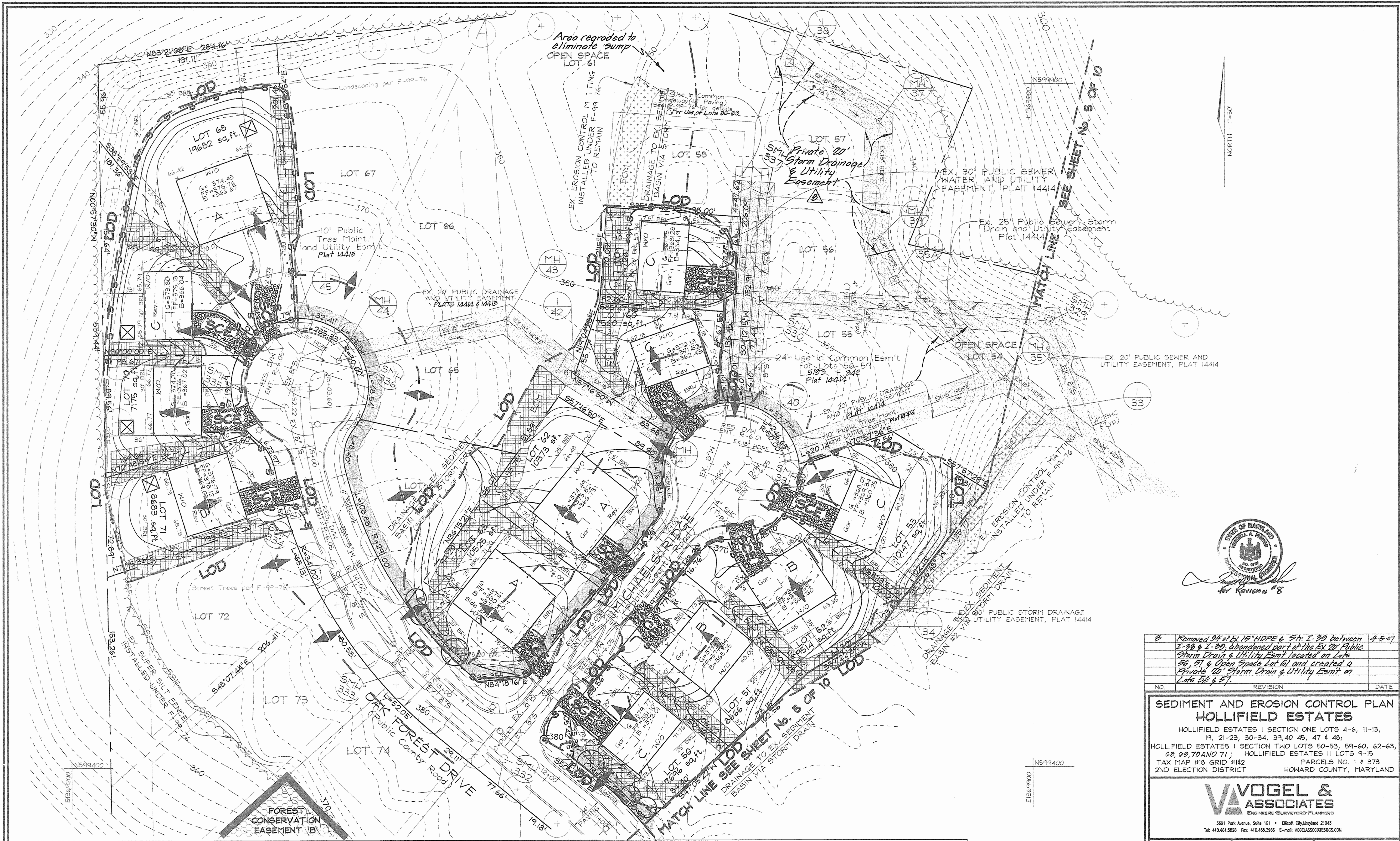
**SITE DEVELOPMENT PLAN**  
**HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13, 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63, 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #162 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL & ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3591 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3661 E-mail: VOGELASSOCIATES@PCS.COM

|   |                       |               |
|---|-----------------------|---------------|
|   | DESIGN BY: GAH        | 4 SHEET OF 10 |
|   | DRAWN BY: TR/GAH      |               |
|   | CHECKED BY: RHW       |               |
|   | DATE: August 17, 2000 |               |
|   | SCALE: 1"=30'         |               |
| OWNER/DEVELOPER<br>BEAZER HOMES<br>8965 GUILFORD ROAD, SUITE 290<br>COLUMBIA, MARYLAND 21046<br>410-720-5071<br>ATTN: JOE FORTINO |                       |               |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION 1/8/01  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT 1/22/01  
  
 DIRECTOR 1/24/01



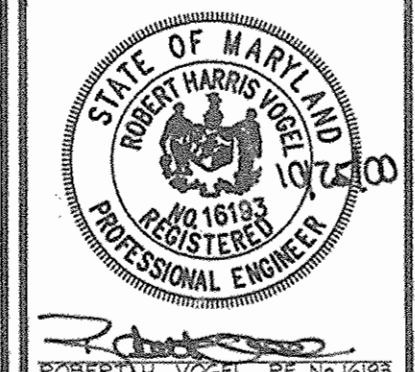
NORTH 1"=30'

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 ROBERT H. VOGEL  
 for Revision #8

| NO. | REVISION  | DATE   |
|-----|---|--------|
| 8   | Removed 94' of EX 18' HDPE & Str. I-39 between I-39 & I-39, abandoned part of the EX 18' Public Storm Drain & Utility Eas't located on Lots 56, 57 & Open Space Lot 61 and created a Private 20' Storm Drain & Utility Eas't on Lots 56 & 57. | 4-5-07 |

**SEDIMENT AND EROSION CONTROL PLAN  
 HOLLIFIELD ESTATES**  
 HOLLIFIELD ESTATES I SECTION ONE LOTS 4-6, 11-13,  
 19, 21-23, 30-34, 39, 40, 45, 47 & 48;  
 HOLLIFIELD ESTATES I SECTION TWO LOTS 50-53, 59-60, 62-63,  
 68, 69, 70 AND 71; HOLLIFIELD ESTATES II LOTS 9-15  
 TAX MAP #18 GRID #162 PARCELS NO. 1 & 373  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**VOGEL &  
 ASSOCIATES**  
 ENGINEERS-SURVEYORS-PLANNERS  
 3591 Park Avenue, Suite 101 • Ellicott City, Maryland 21043  
 Tel: 410.461.5828 Fax: 410.465.3966 E-mail: VOGELASSOCIATES@CS.COM



DESIGN BY: GAH  
 DRAWN BY: TR/GAH  
 CHECKED BY: RHV  
 DATE: August 17, 2000  
 SCALE: 1"=30'  
 W.O. NO.: 99-129

8 SHEET 10  
 OF

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
  
 CHIEF DEVELOPMENT ENGINEER, ENGINEERING DIVISION 1/15/01 DATE  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT 1/22/01 DATE  
  
 DIRECTOR 1/26/01 DATE

**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 10/25/00 DATE  
 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 8/17/00 DATE  
 Joseph D. DeFino

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
  
 J.G. Waples / es. 1/2/01 DATE  
 US NATURAL RESOURCES CONSERVATION SERVICE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
  
 Joe Fortino 1/2/01 DATE  
 HOWARD COUNTY

**OWNER/DEVELOPER**  
 BEAZER HOMES  
 8965 GULFORD ROAD, SUITE 290  
 COLUMBIA, MARYLAND 21046  
 410-720-5071  
 ATTN: JOE FORTINO