

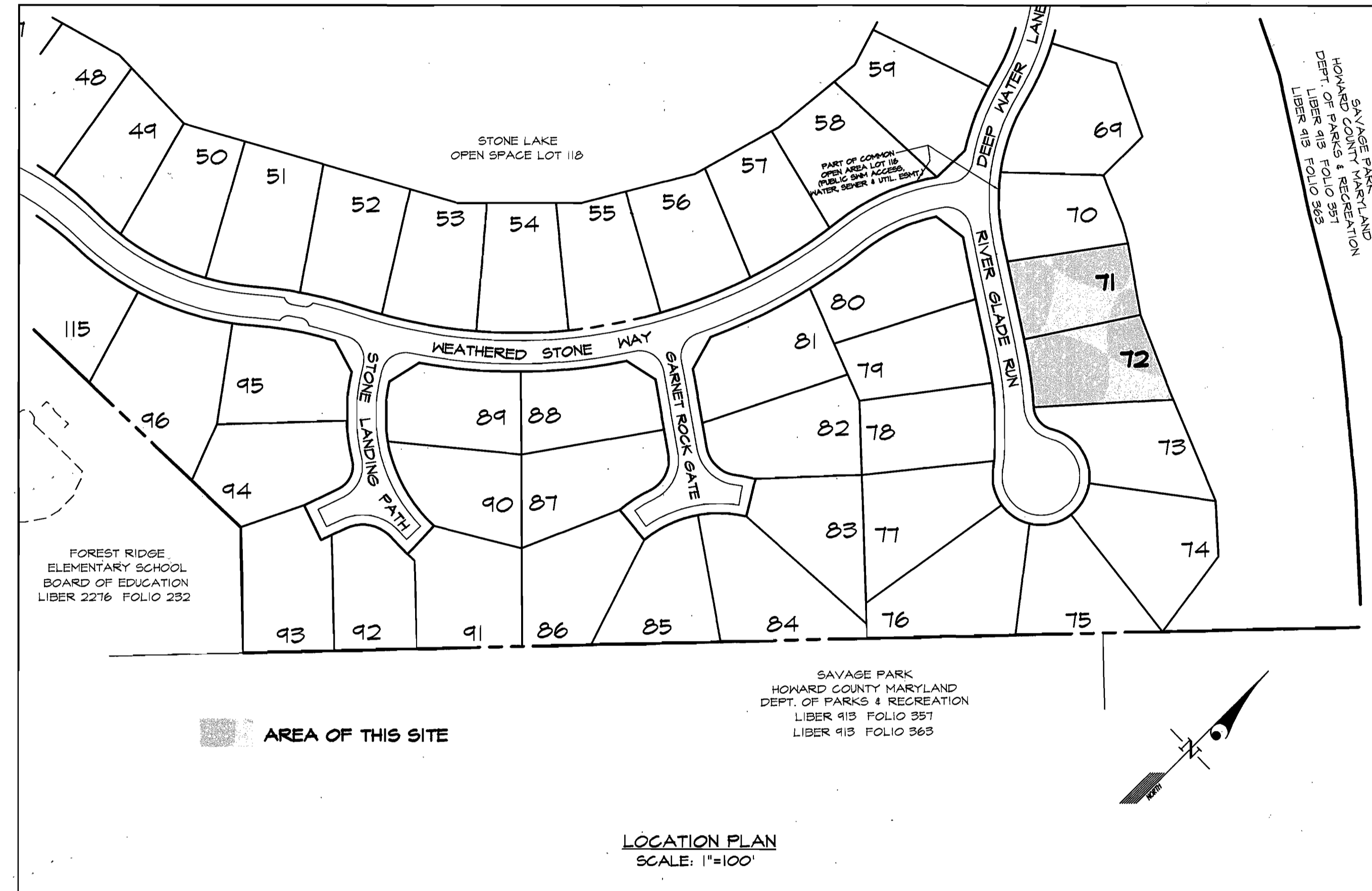
GENERAL NOTES

- 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 BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 315-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-TITI AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION WORK.
- PROJECT BACKGROUND:
LOCATION: TAX MAP #47, GRID 7
ZONING: R-ED (PER THE OCTOBER 18, 1993 COMPREHENSIVE ZONING PLAN)
ELECTION DISTRICT: 6TH
BUILDABLE LOT AREA: 20,371 SF OR .46 AC TOTAL FOR LOTS 71 & 72
OPEN SPACE AREA: 0 AC.
TOTAL AREA: 20,371 SF OR 0.46 AC.
REC. REF.: PLAT NO. 15534
- 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.
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIALLY BETWEEN ITEMS UNLESS OTHERWISE NOTED.
- EXISTING TOPOGRAPHY AND FEATURES WERE DERIVED FROM AERIAL PHOTOGRAPHY BY DAFT, MCGUINE & WALKER/SUMMER 1998 AND MASS GRADING INFORMATION FROM F-01-204.
- HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 41 EA, & 41 E4.
- PUBLIC WATER AND SEWER IS TO BE UTILIZED (PATAPSCO DRAINAGE AREA). CONTRACT NO. 34-3448-D.
- STORMWATER MANAGEMENT IS PROVIDED BY A PRIVATE FACILITY UNDER F-01-204. THE PRIVATE STORMWATER MANAGEMENT, DRAINAGE AND UTILITY EASEMENT IS OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- ALL STORM DRAINS SHOWN ARE PRIVATE AND ARE BUILT UNDER THE F-01-204 PLAN.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM F-01-204 AND CONTRACT NO. 34-3448-D BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
- BOTH THE NOISE AND TRAFFIC STUDIES WERE APPROVED AS PART OF SKETCH PLAN S-00-13 APPROVED ON 10-10-2000.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- OTHER HOWARD COUNTY FILES RELATED TO THIS SITE:
S-00-13P-01-15PB-345/MP-01-88/POO-88/MP-00-126/MP-01-60/MP-01-44, F-01-171, FB 345, F-01-85, F-01-204 AND MP-02-50 AND CONTRACT # 34-3448-D.
- FOREST CONSERVATION FOR THIS SITE IS PROVIDED UNDER F-01-171 & F-01-204.
- FOR DRIVEWAY APRON, SEE HOWARD COUNTY STANDARD DETAIL No R-6.03 AND R-6.05.
- LANDSCAPING AND REQUIRED STREET TREES SHALL BE IN ACCORDANCE WITH THE APPROVED ROAD CONSTRUCTION DRAWING, F-01-204.
- BENCH MARKS/CONTROL STATIONS: #47EA-N 535063.631 E 1357283.404 EL=315.28 AND #47E4 N 535063.631 E 13572830484 EL=338.91
- IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS; PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- RIVER GLADE RUN IS A PRIVATE ROAD AND SHALL BE MAINTAINED BY THE HOA.
- SEWER CLEANOUTS SHALL BE FLUSH WITH PROPOSED DRIVEWAY SURFACE. IF A CONCRETE DRIVEWAY IS TO BE UTILIZED, PROVIDE A 12-INCH BY 12-INCH REINFORCED CONCRETE PANEL AROUND THE CLEANOUT WITH EXPANSION JOINT MATERIAL AS APPROPRIATE. IF IN THE FUTURE, CLEANOUT IS PAVED OVER, DPM WILL NOT BE RESPONSIBLE FOR DAMAGE TO DRIVEWAY WHEN ACCESSING CLEANOUT.
- THIS PLAN IS SUBJECT TO THE COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS EFFECTIVE OCTOBER 2, 2003.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
A. WIDTH-12' (4' SERVING MORE THAN ONE RESIDENCE);
B. SURFACE- 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.);
C. GEOMETRY- MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
D. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING);
E. DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
F. MAINTENANCE - SUFFICIENT TO ALL WEATHER USE.
- ALL EASEMENTS (PUBLIC AND PRIVATE) SHOWN ON THESE PLANS ARE PER RECORDED PLAT NO. 15534, UNLESS OTHERWISE NOTED.
- STONE LAKE COMMUNITY ASSOCIATION, INC. IS THE HOMEOWNERS ASSOCIATION RECORDED ON FEBRUARY 27, 2002 IN LIBER 6019, AT FOLIO 414. THE SDAT# IS D06486157.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM, OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS, EXCEPT FOR THE DISTURBANCE PREVIOUSLY APPROVED UNDER F-01-204.

GENERIC SITE DEVELOPMENT PLAN

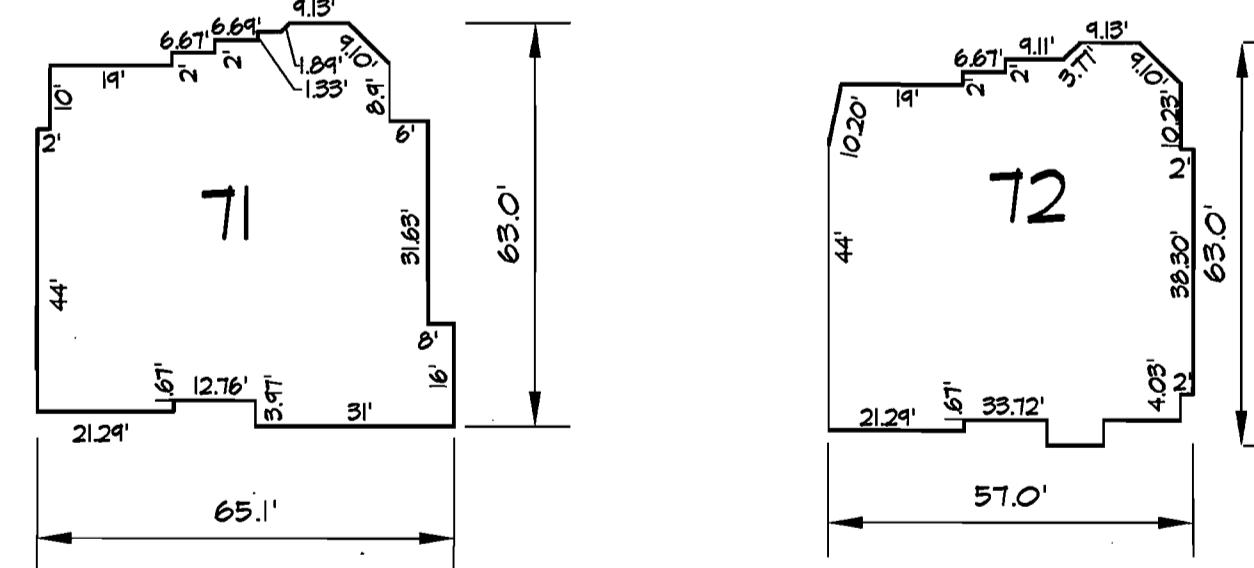
STONE LAKE

LOTS 71 AND 72



SITE ANALYSIS

- GENERAL SITE DATA
 - PRESENT ZONING: R-ED
 - PROPOSED USED FOR SITE AND STRUCTURE: SINGLE FAMILY DETACHED
 - TOTAL NUMBER OF UNITS: 2
- AREA TABULATION
 - SITE AREA: 0.46± AC. FOR 2 BUILDABLE LOTS
 - AREA OF PLAN SUBMISSION: 0.46± AC.
 - LIMIT OF DISTURBANCE: 0.70± AC.

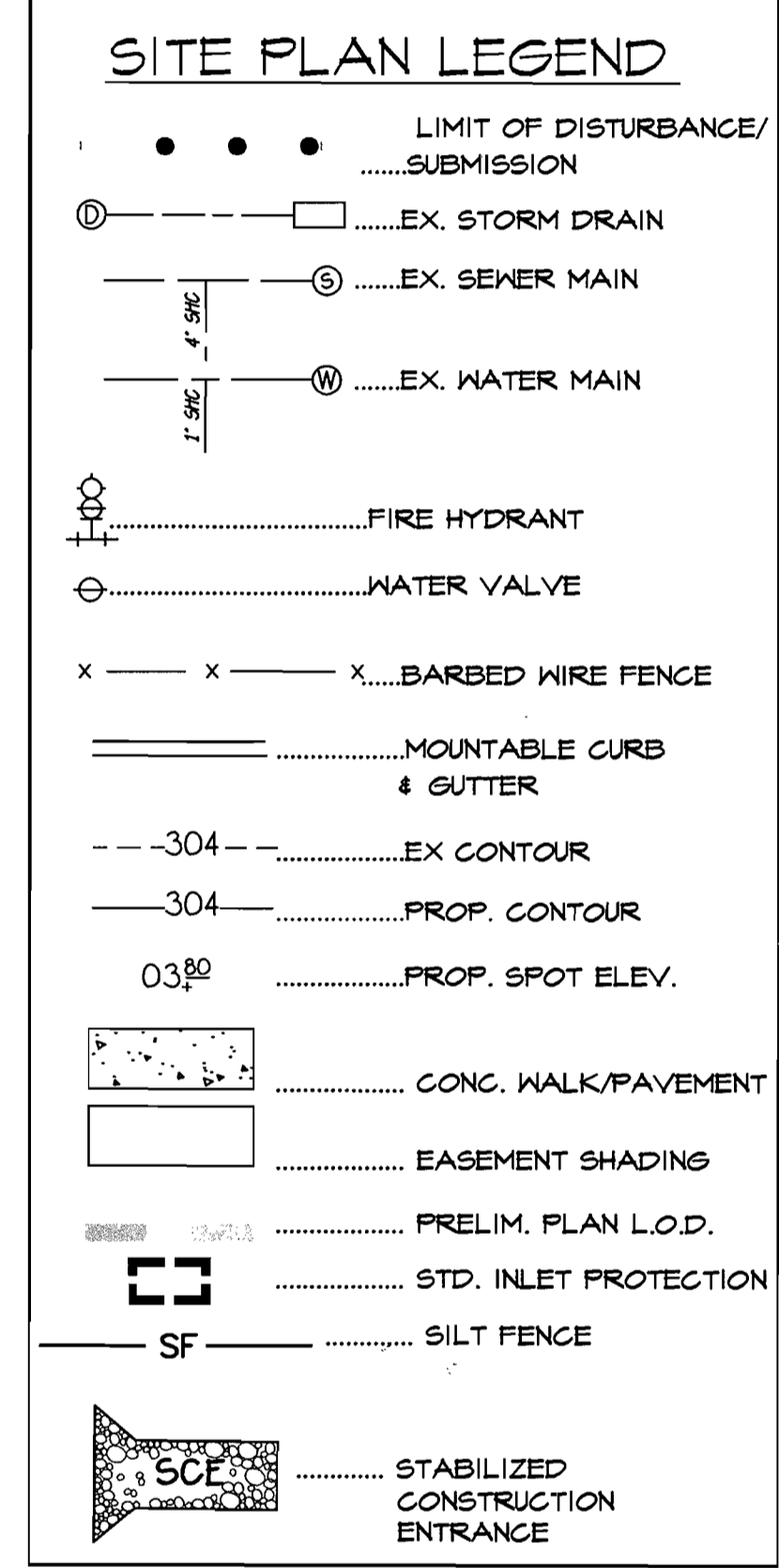
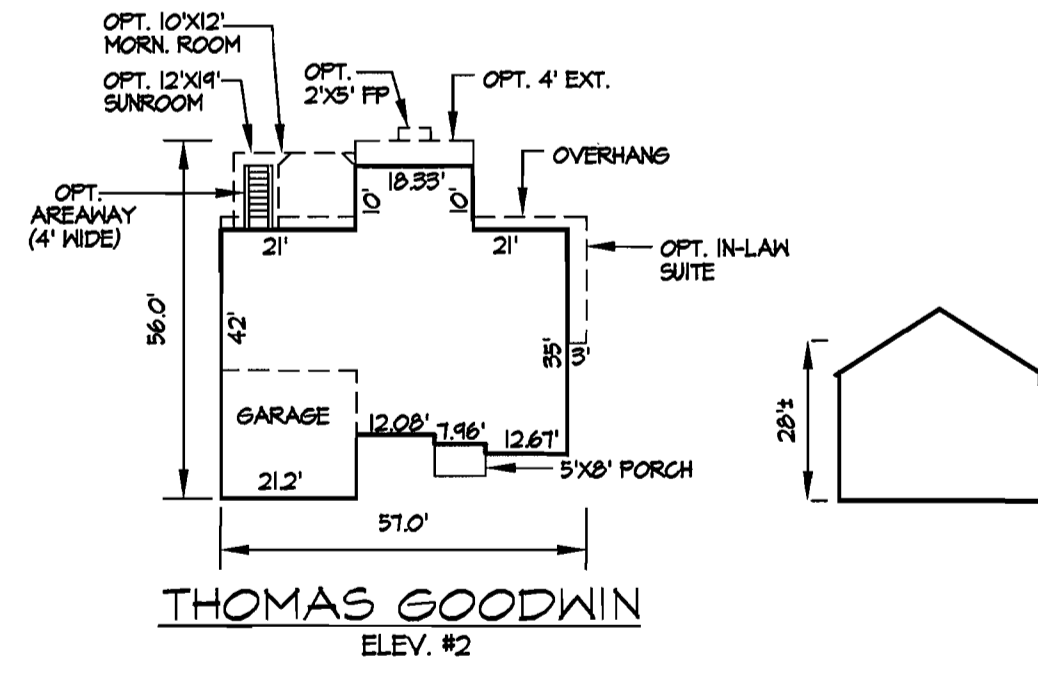
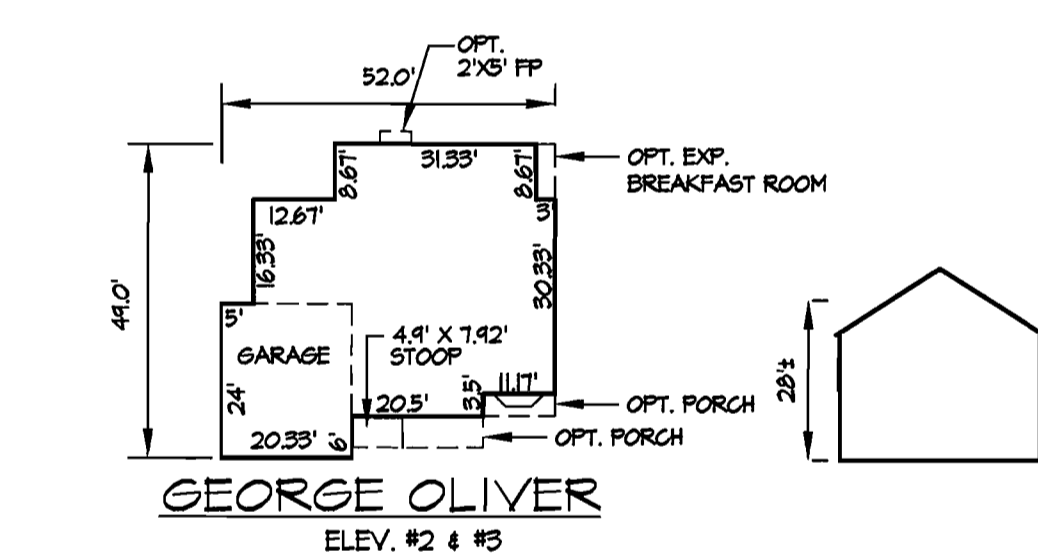
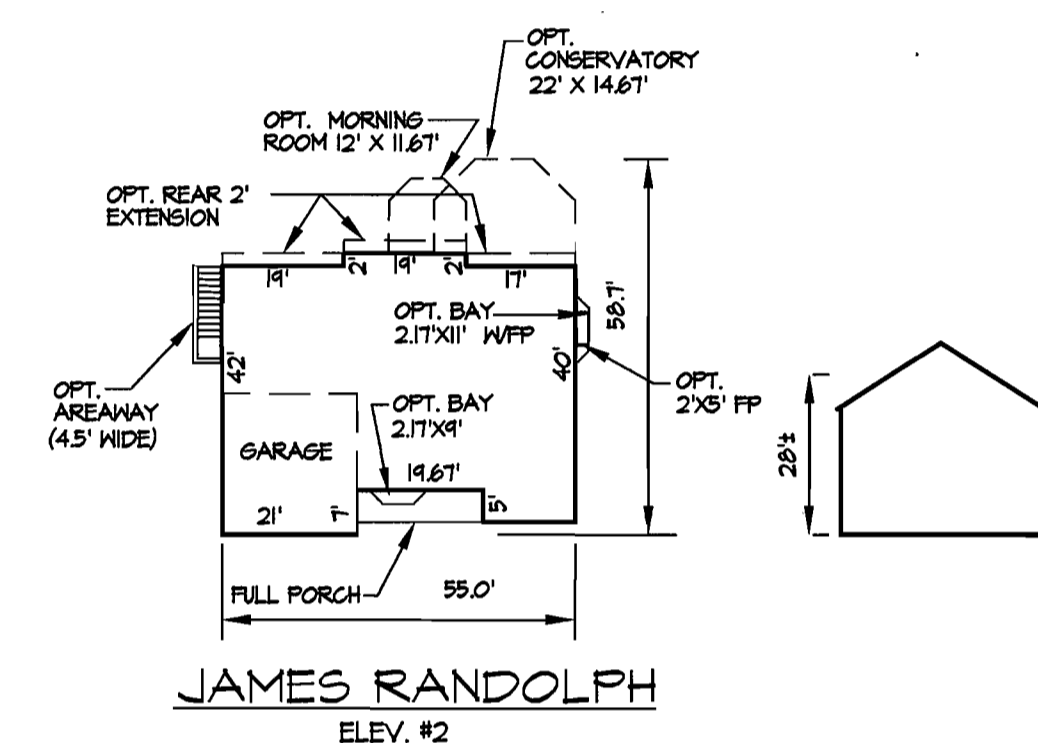
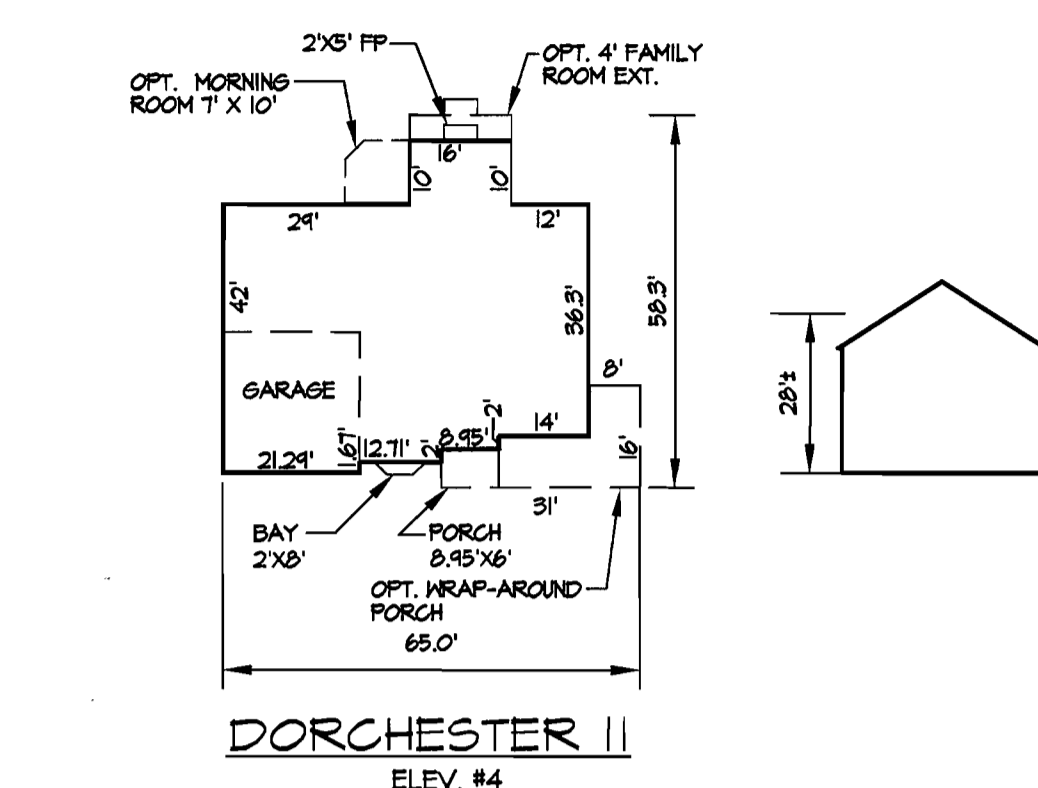
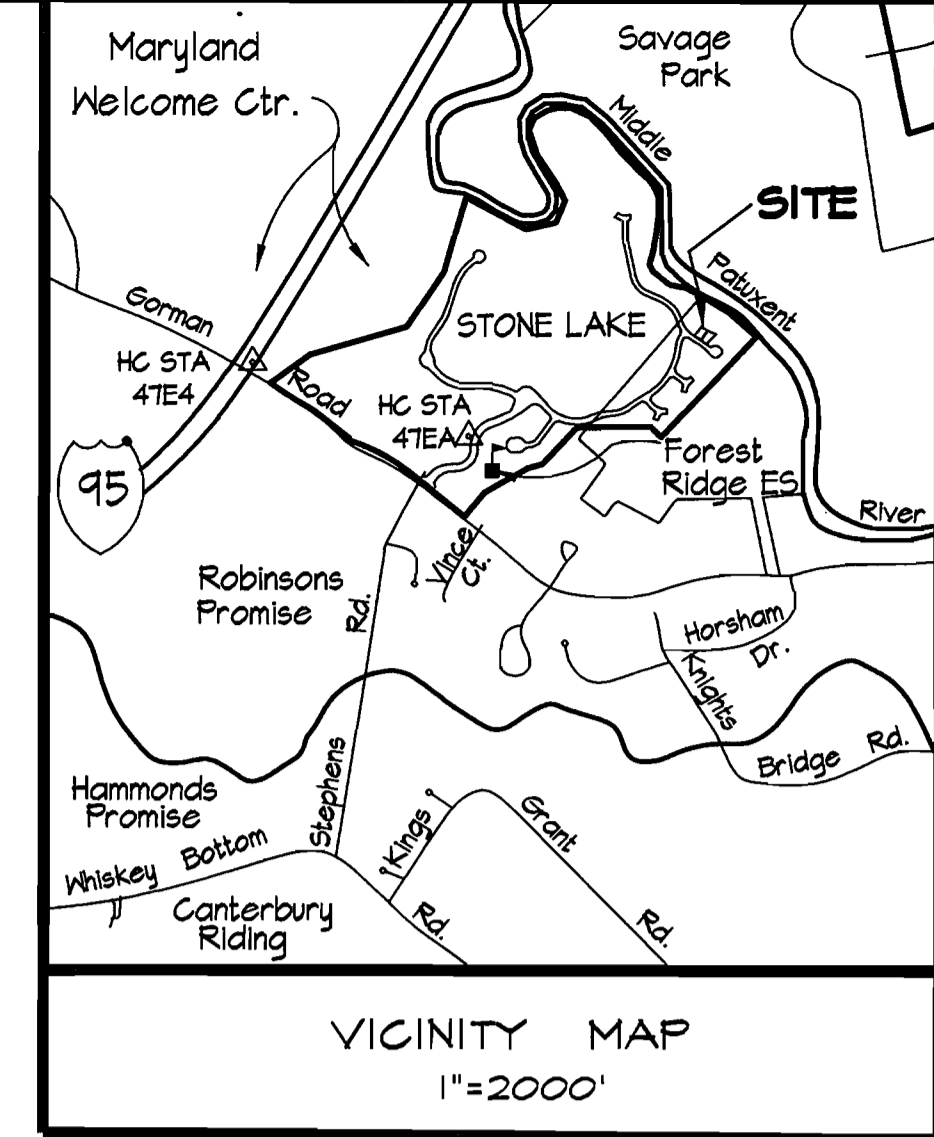


GENERIC BOX CHART

HOUSE TYPE	71	72
THOMAS GOODWIN	YES	YES
GEORGE OLIVER	YES	YES
JAMES RANDOLPH	YES	YES
DORCHESTER II	YES	YES (NO WRAPAROUND PORCH)

SHEET INDEX

SHEET NO.	TITLE
1	COVER SHEET AND HOUSE MODEL DETAILS
2	SITE AND SEDIMENT CONTROL PLAN



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
 Director (John) [Signature] 12/12/03
 Chief, Division of Land Development [Signature] 12/11/03
 Chief, Development Engineering Division [Signature] 12/10/03

GLWGUTSCHICK LITTLE & WEBER, PA.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
 WILLIAMSBURG GROUP
 P.O. BOX 1018
 COLUMBIA, MD. 21044
 410-997-8800
 ATTN: MR. ROBERT CORBETT

COVER SHEET AND HOUSE MODEL DETAILS
STONE LAKE
LOTS 71 AND 72
 PLAT No. 15539
 ELECTION DISTRICT No. 6

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
71	8605 RIVER GLADE RUN
72	8609 RIVER GLADE RUN

WATER CODE	SEWER CODE	SCALE	ZONING	G. L. W. FILE No.
E15	6100000	AS NOTED	R-ED	02-119

DATE	TAX MAP - GRID	SHEET
SEPTEMBER 2003	47 - 7	1 OF 2

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 313-1855
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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 seedings, sod, temporary seedings and mulching (Sec. 6). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. 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.

7. Site Analysis:
- | | |
|-------------------------------------|---------------|
| Total Area of Site | 46± Acres |
| Area Disturbed | 70± Acres |
| Area to be rooted or paved | 17± Acres |
| Area to be vegetatively stabilized | 53± Acres |
| Total Cut | 1350 Cu. Yds. |
| Total Fill | 800 Cu. Yds. |
| Off-site waste/borrow area location | 500 Cu. Yds. |
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 9. Additional sediment control must be provided, if deemed necessary by the Howard County DPM Sediment Control Inspector.
 10. 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.
 11. Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within 1 working day, whichever is shorter.

PERMANENT SEEDING NOTES

Apply to graded or cleared area 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, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (4 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (42 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.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 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 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 40 lbs/1000 sq ft) of untreated, weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 3 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless 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 October 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 (.71 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.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 40 lbs/1000 sq ft) of untreated, weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 3 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

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

Dust Control

Definition

Controlling dust blowing and movement on construction sites and roads.

Purpose

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

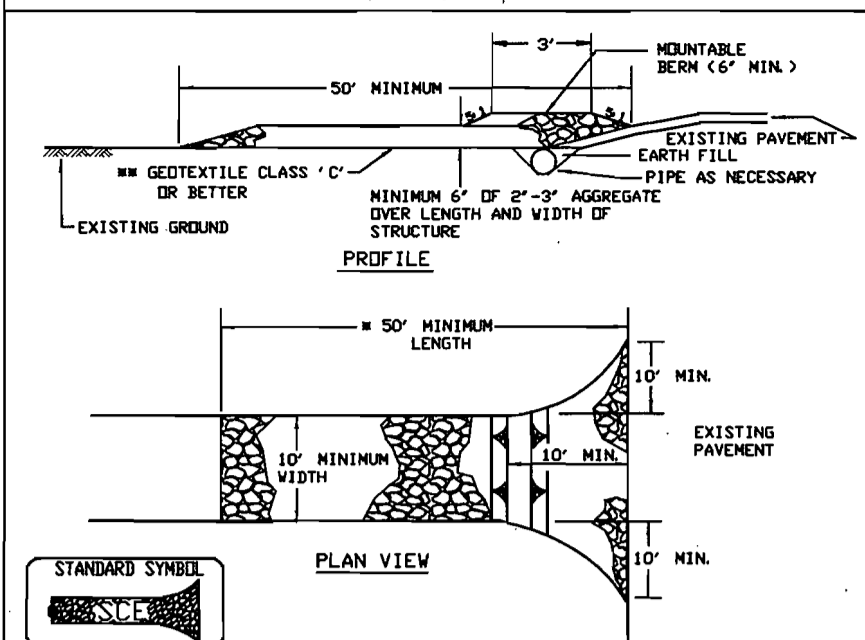
This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Specifications

- Temporary Methods
1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
 2. Vegetative Cover - See standards for temporary vegetative cover.
 3. Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12' apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
 4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
 5. Barriers - Solid board fences, silt fences, snow fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angle to prevailing currents at intervals at about ten times their height are effective in controlling soil blowing.
 6. Calcium Chloride - Apply at rates that will keep surface moist. May need treatment.
- Permanent Methods
1. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
 2. Topsoiling - Covering with less erosive soil material. See standards for top soil.
 3. Stone - Cover surface with crushed stone or gravel.

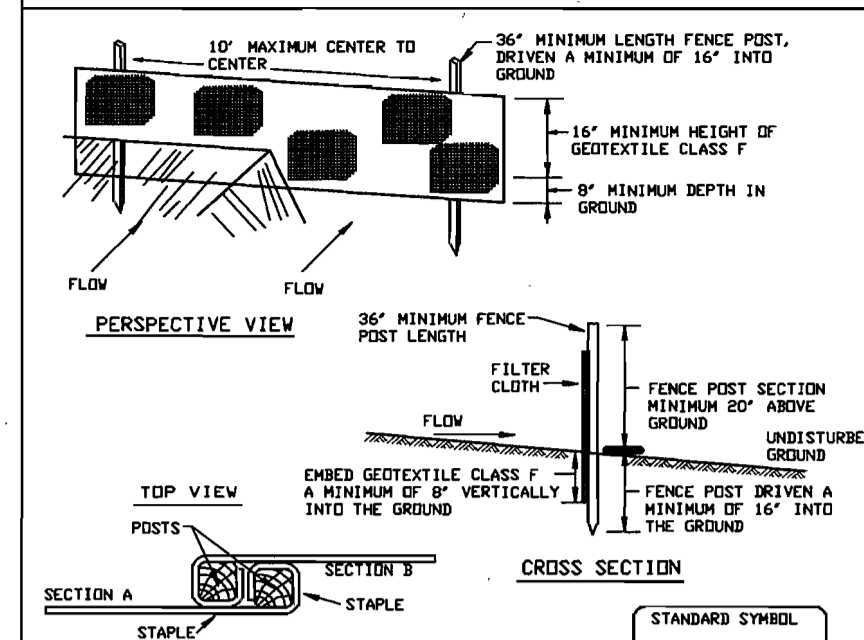
- References
1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA, ARS.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



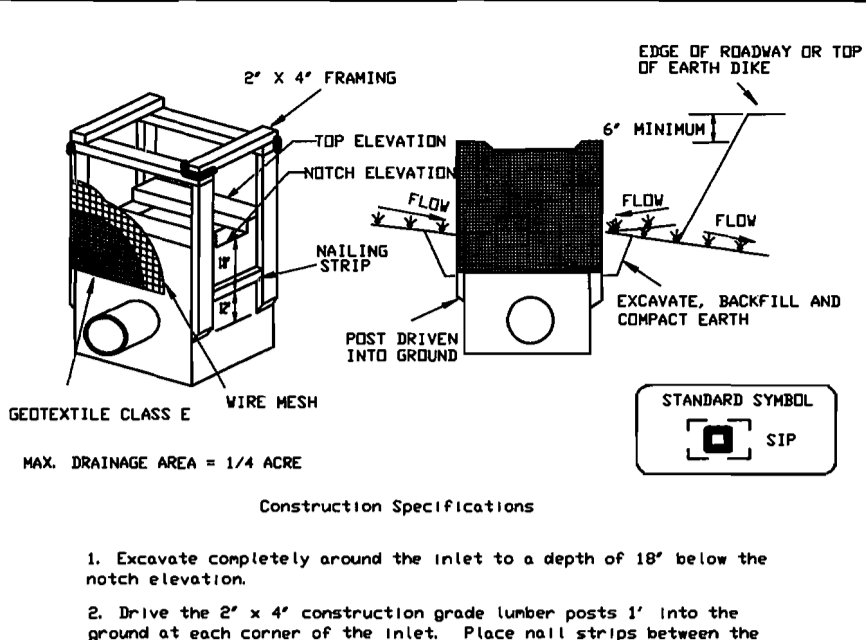
- Construction Specifications
1. Length - minimum of 50' (±30') for single residence lots.
 2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. In the plan approval authority may not require single family residences to use geotextile.
 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a roundabout berm with 3:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SIZ is located at 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 point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 22 - SILT FENCE



- Construction Specifications
1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 1/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1" or 1 1/2" section weighting not less than 1.00 pond per linear foot.
 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and in-section and shall meet the following requirements for Geotextile Class F:
- | | | |
|----------------------|---|---------------|
| Tensile Strength | 30 lbs/in (min.) | Test: MHT 509 |
| Tensile Modulus | 30 lbs/in (min.) | Test: MHT 509 |
| Flow Rate | 0.3 gal. Ft ² /minute (max.) | Test: MHT 302 |
| Filtering Efficiency | 75% (min.) | Test: MHT 302 |
3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 4. Silt Fence shall be inspected after each rainfall event and maintained when failure occurs or when sediment accumulation reaches 50% of the fabric height.
- U.S. DEPARTMENT OF AGRICULTURE PAGE 6-16-3 HOWARD COUNTY DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

DETAIL 23A - STANDARD INLET PROTECTION



- Construction Specifications
1. Excavate completely around the inlet to a depth of 18" below the notch elevation.
 2. Drive the 2' x 4' construction grade lumber posts 1' into the ground at each corner of the inlet. Place rail strips between the posts on the ends of the inlet. Assemble the top portion of the 2' x 4' frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.
 3. Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
 4. Stretch the geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
 5. Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
 6. If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
 7. The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.
- U.S. DEPARTMENT OF AGRICULTURE PAGE 6-16-3 HOWARD COUNTY DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District"

Carlton Outcick, PE. 11-14-03
Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done in accordance to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

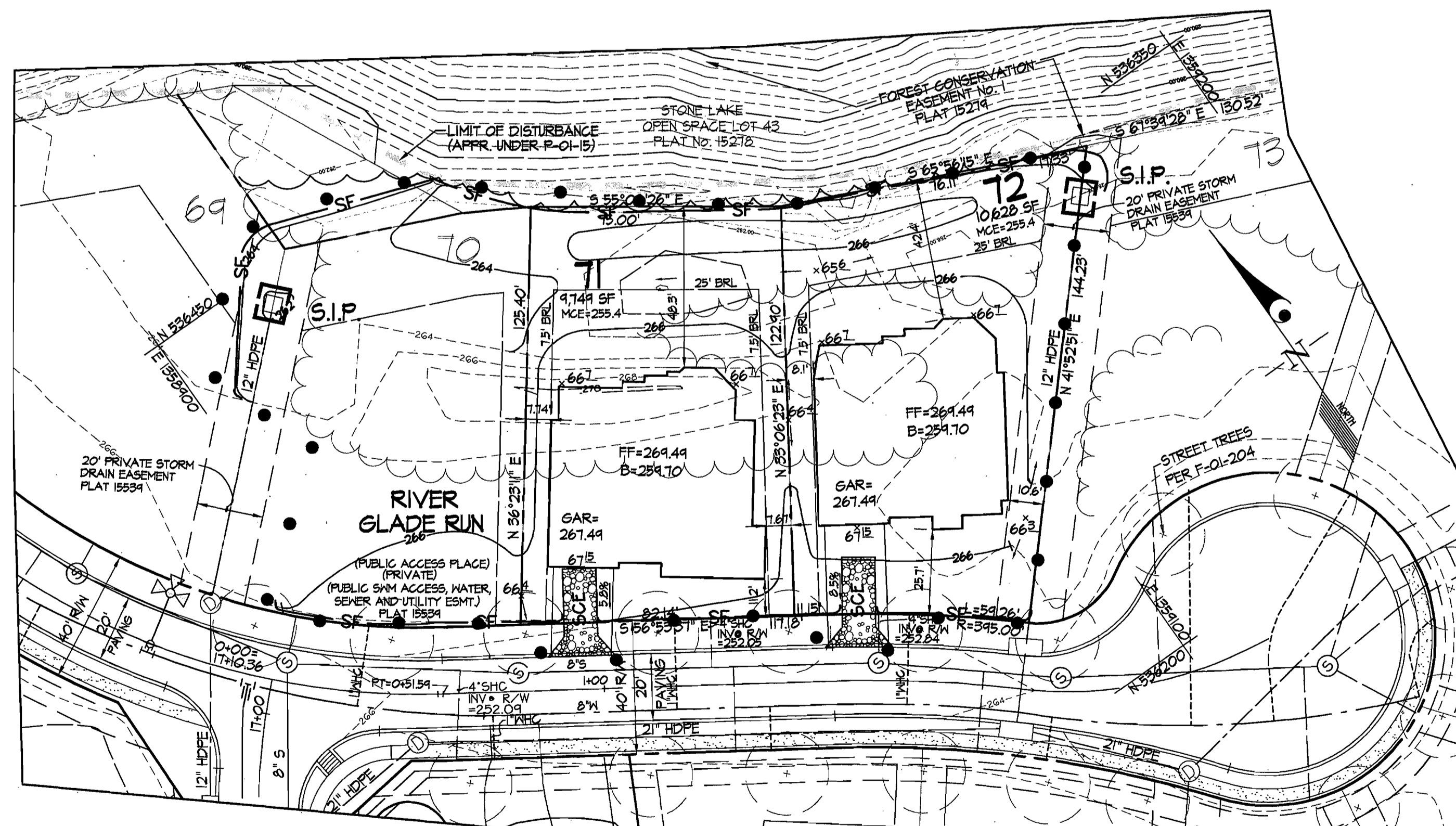
Robert Corbett 11-19-03
Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

Jim Meyer 12/4/03
Natural Resources Conservation Service Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

John K. Roberts 12/4/03
Howard S.C.D. Date



LOTS 71 AND 72

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

John W. White 12/12/03
Director Date

Andy Smith 12/11/03
Chief, Division of Land Development Date

Chris Williams 12/8/03
Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3809 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866

TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:

WILLIAMSBURG GROUP
P.O. BOX 1018
COLUMBIA, MD 21044
410-997-8800
MR. ROBERT CORBETT

SITE AND SEDIMENT CONTROL PLAN

STONE LAKE
LOTS 71 AND 72
PLAT No. 15539

SCALE	ZONING	G. L. W. FILE No.
1"=30'	R-ED	02-119
DATE	TAX MAP - GRID	SHEET
SEPTEMBER 2003	47 - 7	2 OF 2

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 313-1855
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seedings and mulching (Sec. 6). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

1. Site Analysis:

Total Area of Site	46± Acres
Area Disturbed	.70± Acres
Area to be roofed or paved	.17± Acres
Area to be vegetatively stabilized	53± Acres
Total Cut	1350 Cu. Yds.
Total Fill	800 Cu. Yds.
Off-site waste/borrow area location:	500 Cu. Yds.

- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPM Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within 1 working day, whichever is shorter.

PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred** - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (4 lbs/1000 sq ft).
- Acceptable** - Apply 2 tons per acre dolomitic limestone (42 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.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (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 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2½ gallons per acre (½ gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (½ gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeds.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

Director: *[Signature]* 12/12/03
Date

Chief, Division of Land Development: *[Signature]* 12/11/03
Date

Chief, Development Engineering Division: *[Signature]* 12/6/03
Date

TEMPORARY SEEDING NOTES

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 (unless 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 October 15, seed with 2-1/2 bushel per acre of annual rye (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.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2½ gal per acre (½ gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (½ gal/1000 sq ft) for anchoring.

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

Dust Control

Definition

Controlling dust blowing and movement on construction sites and roads.

Purpose

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

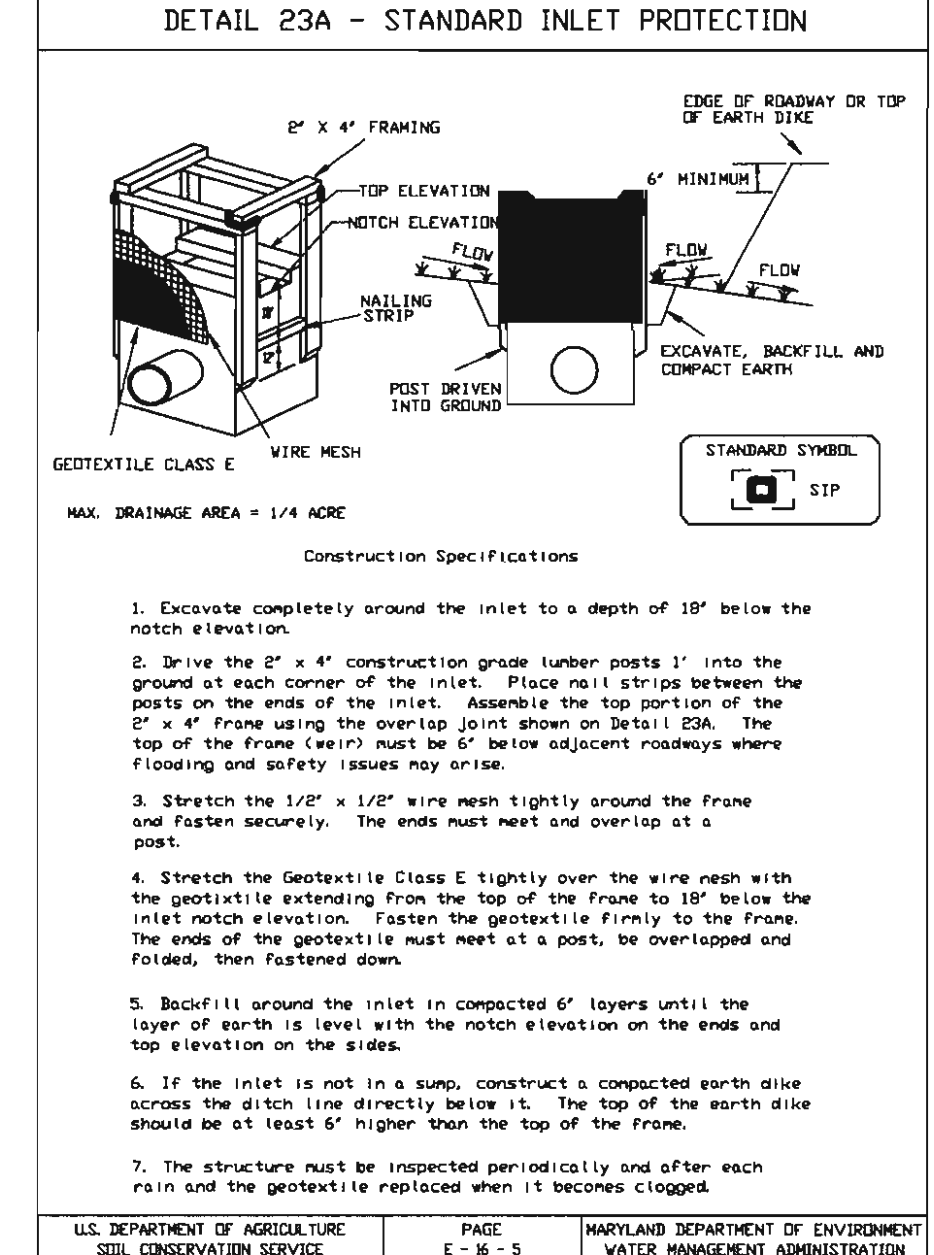
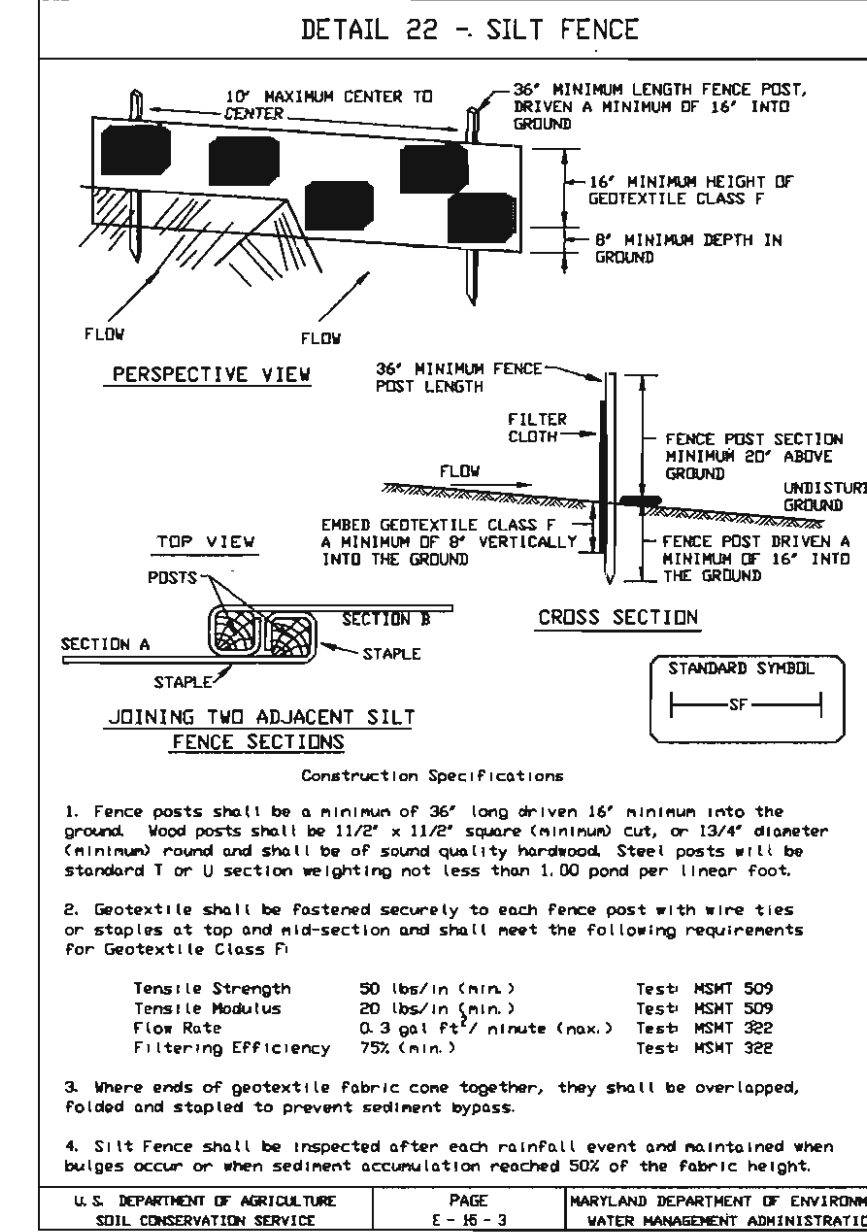
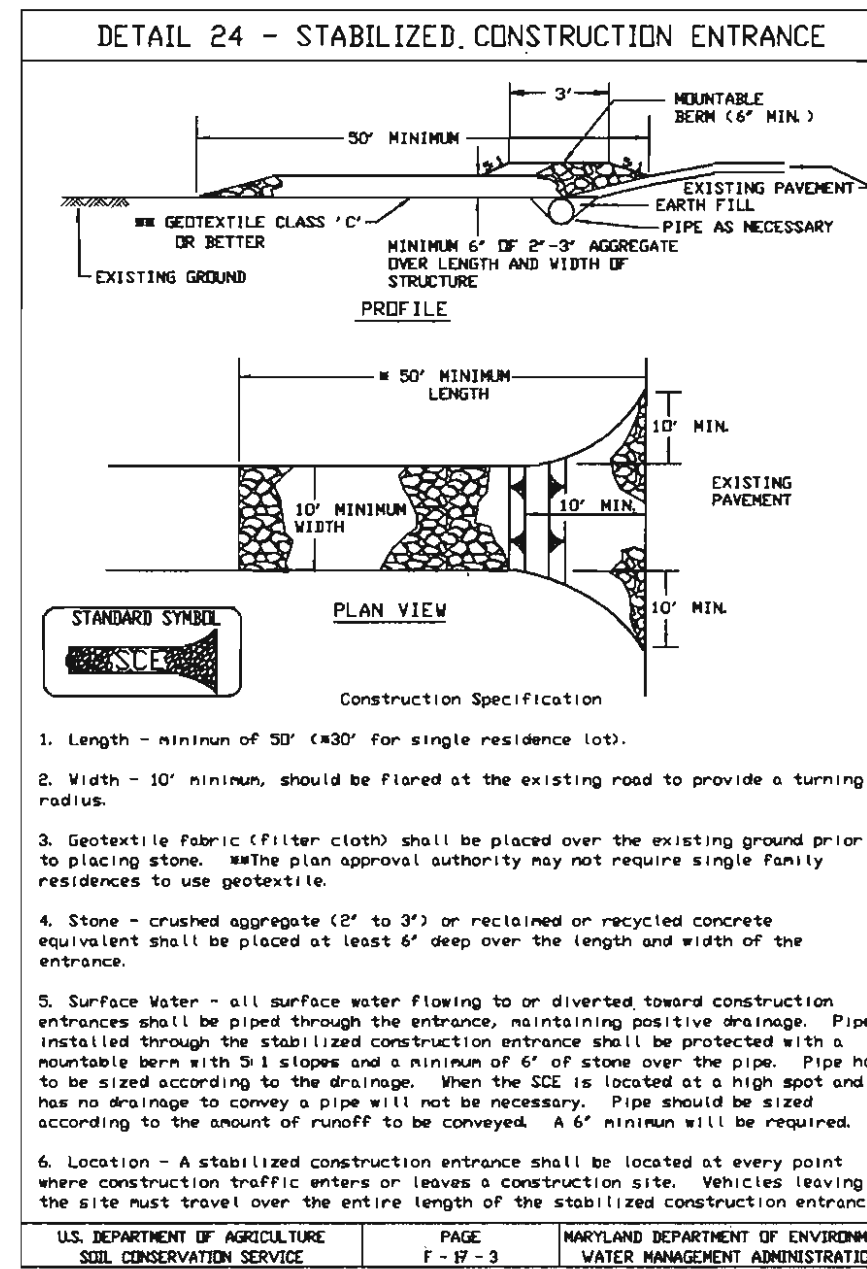
Specifications

- Temporary Methods**
- Mulches - See standards for vegetative stabilization with mulches only, mulch should be crimped or tacked to prevent blowing.
 - Vegetative Cover - See standards for temporary vegetative cover.
 - Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12' apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
 - Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
 - Barriers - Solid board fences, silt fences, snow fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angle to prevailing currents at intervals at about ten times their height are effective in controlling soil blowing.
 - Calcium Chloride - Apply at rates that will keep surface moist. May need treatment.

Permanent Methods

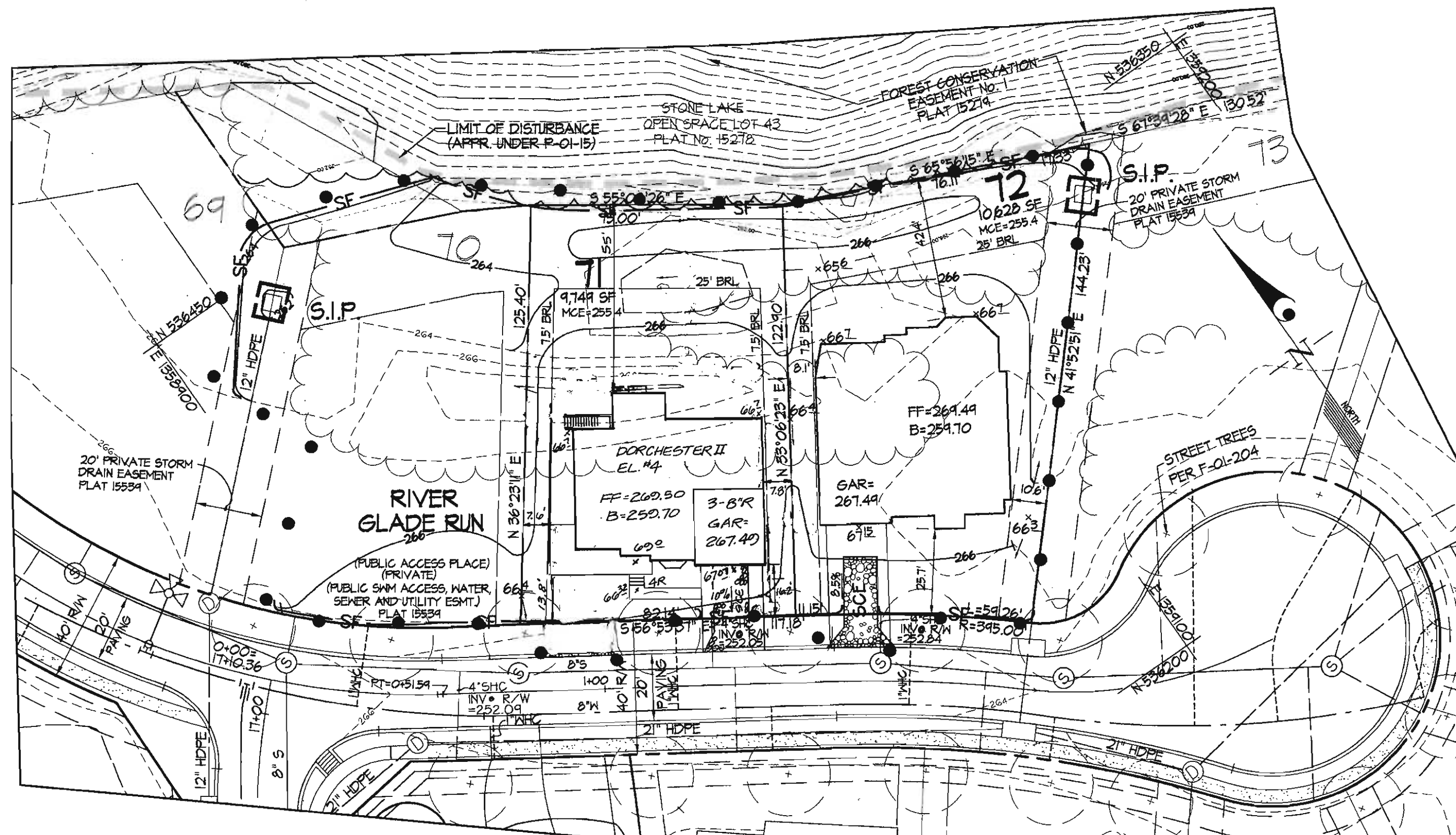
- Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- Topsailing - Covering with less erosive soil material. See standards for top soil.
- Stone - Cover surface with crushed stone or gravel.

- Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
- Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.



SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT AND ARRANGE FOR AN ON SITE MEETING. (1 DAY)
- INSTALL STONE CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION AS SHOWN ON THESE PLANS. (2 DAYS)
- BEGIN ROUGH GRADINGS. (1 WEEK)
- MAKE UTILITY CONNECTIONS.
- CONSTRUCT HOUSE. (3 MONTHS)
- FINE GRADE SITE AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES AND REMOVE SEDIMENT CONTROL DEVICES WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR. (1 WEEK)
- INSTALL SIDEWALK AND DRIVEWAY. (1 WEEK)



ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature] 11-14-03
Carlton Dutschick, P.E. Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done in accordance to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

[Signature] 11-19-03
Robert Corbett Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

[Signature] 12/4/03
Natural Resources Conservation Service Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

[Signature] 12/14/03
Howard S.C.D. Date

LOTS 71 AND 72

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE, SUITE 250 - BURTNSVILLE OFFICE PARK
BURTNSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186

PREPARED FOR:
WILLIAMSBURG GROUP
P.O. BOX 1018
COLUMBIA, MD 21044
410-997-8800
MR. ROBERT CORBETT

SITE AND SEDIMENT CONTROL PLAN
STONE LAKE
LOTS 71 AND 72
PLAT No. 15539

SCALE	ZONING	G. L. W. FILE No.
1" = 30'	R-ED	02-119
DATE	TAX MAP - GRID	SHEET
SEPTEMBER 2003	47 - 7	2 OF 2