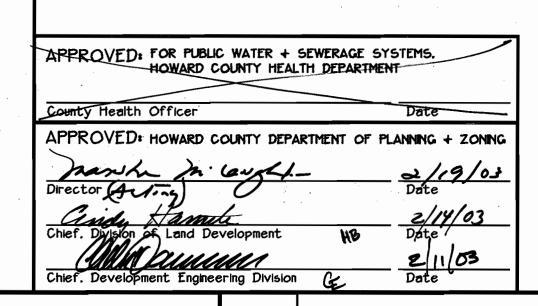
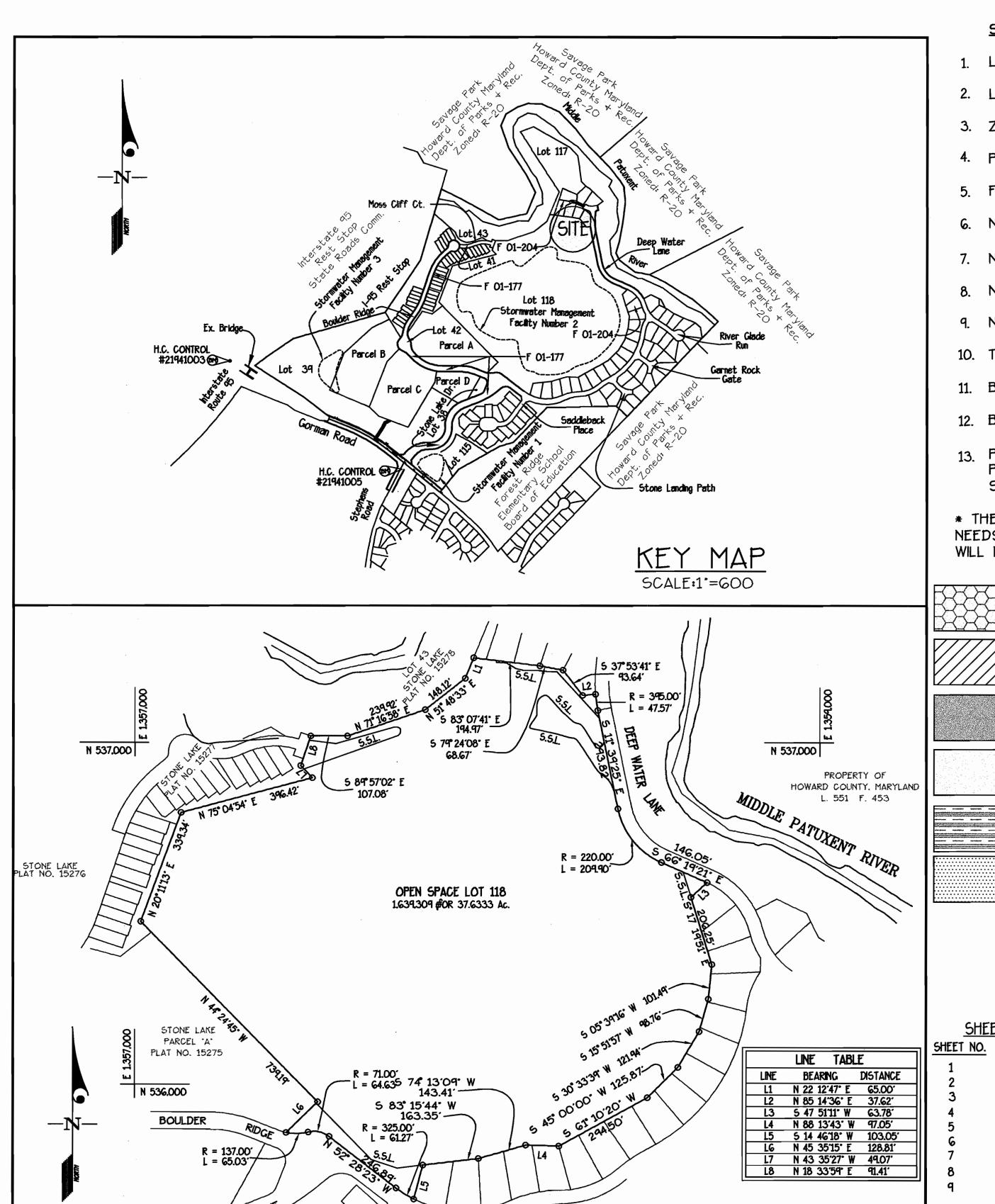
#### GENERAL NOTES

- 1. All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standard and specifications id
- 2. The contractor shall notify the Department of Public Works/Bureau of Inspection at (410) 313-1880 at least five (5) working days prior to the
- 3. The contractor shall notify 'Miss Utility' at 1-800-257-7777 at least 48 hours prior to any excavation work.
- 4. The contractor shall notify the Howard County Department of Public Works. Bureau of Utilities at (410) 313-4900 at least five (5) working days prior to starting any excavation.
- 5. Limit of Submission: 0.44 Ac. Disturbed Area: 0.44 Ac.
- 6. Recording reference: Plat No. 15541
- 7. Traffic control devices. markings and signals 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
- 8. All plan dimensions are to face of curb unless otherwise noted.
- 9. Topography shown has a 2' contour interval and was determined by: Aerial photography by Daft. McCune + Walker, summer 1998.
- 10. Coordinates and bearings are based upon the MD State Plane System (NAD
- 11. Horizontal and vertical control are based in Howard County Control Sta. 21941003 and 21941005.
- 12. Utility information taken from approved final construction plans for
- 13. Water and sewer shown is public.
- 14. All existing water and sewer is shown per Cont. No. 34-3948-D.
- 15. Contractor shall utilize PVC pipe for all sewer house connections and copper for water house connections.
- 16. All water meters shall be located inside buildings.
- 17. The proposed water and sewer house connection alignments indicated on the plans. from the existing utilities to the building. are to be constructed by the building plumber and are approximate.
- 18. Stormwater management quantity and quality is provided on site at a regional facility. approved under F-O1-204.
- 19. All existing private storm drain is per F-01-204.
- 20. All HDPE used for storm drain construction shall meet or exceed AASHTO M-252 type "5". M-294 type "5" and ASTM D2321 respectively. Use trench bedding class "C" for storm drains.
- 21. Sidewalks adjacent to perpendicular parking shall be six feet wide. All other sidewalks shall be four feet wide. except where dimensioned otherwise. Provide three feet radius rounding at all angle breaks and intersections.
- 22. All proposed ramps shall be in accordance with current A.D.A. standards. Maximum sidewalk cross slope shall be two percent. Provide a five-foot by five-foot level (two (2) percent max) landing at the top and bottom of all
- 23. Maintain two percent cross-slopes on sidewalks. per standard details. Where sidewalk is adjacent to building, slope away from building, and utilize expansion joint material and sealer in the joint between the sidewalks and the
- 24. All curb radii is five foot unless noted otherwise.
- 25. Paved areas indicated are private except as noted.
- 26. Sufficient sight distance per the Howard County Design Manual must be provided at all access points. Any landscaping that obstructs the line of sight must be relocated.
- 27. A traffic study was prepared and approved as part of the Sketch Plan. 5-00-13 on October 10. 2000.
- 28. There is no floodplain on this site.
- 29. There are no wetlands on this site.
- 30. No clearing, grading or construction is permitted within the required wetlands. streams or their buffers and forest conservation areas.
- 31. This project complies with the requirements of Section 16.1200 of the Howard County Code for Forest Conservation by approval and implementation of F-01-177 and F-01-204.
- 32. A waiver of gravity sewer service was granted on November 7, 2002 to allow the use of a on-site pumping unit + low pressure sewer.



REVISION

# SITE DEVELOPMENT PLAN FOR AMENITY AREA No. 2 (PAVILION + BOAT HOUSE)



STONE LAKE COMMUNITY ASSOC.

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MD 21044

PH: 410-992-6089

ATTN: MR. BOB JENKINS

BY

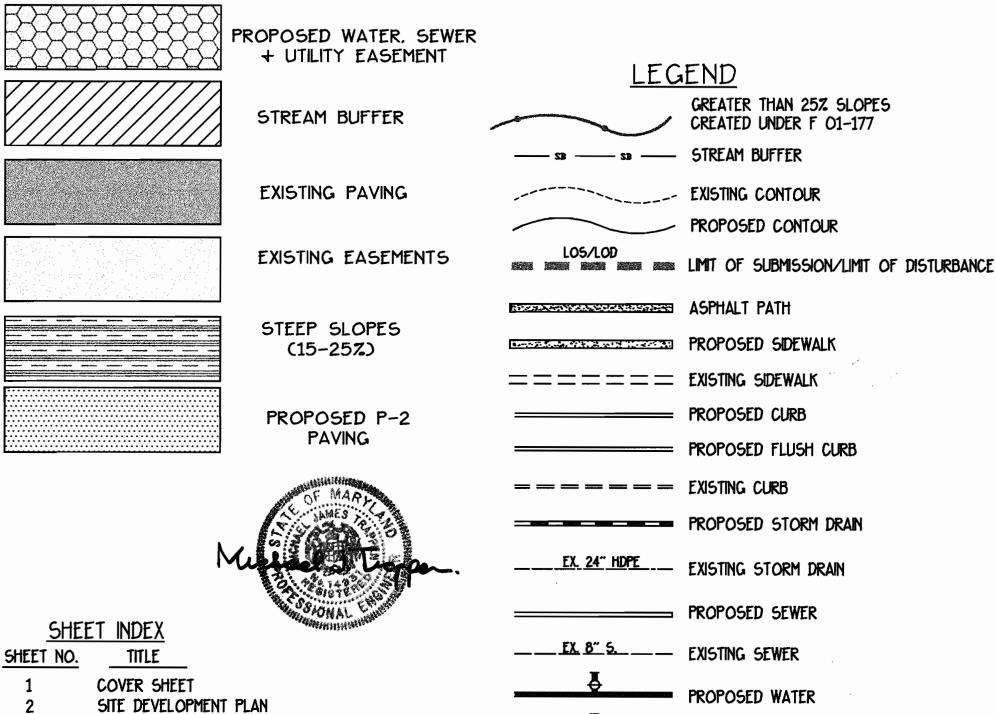
PROPERTY INFORMATION

ELECTION DISTRICT No. 6

SCALE:1'=200'

# Site Analysis Data Chart

- 1. LOT 118 = 1.639.309 SF or 37.63 Ac.
- 2. Limit of Disturbed Area = 19.176 SF or 0.44 Ac.
- 3. Zoning = R-ED
- 4. Proposed Use: BOAT HOUSE + PAVILLION.
- 5. Floor Area = 1.081 SF Gross
- 6. No. of standard parking spaces required: O spaces. \*
- 7. No. of handicap spaces required: O spaces. \*
- 8. No. of standard parking spaces provided: 9 spaces.
- 9. No. of handicap spaces provided: 1 spaces.
- 10. Total parking spaces provided: 10 spaces.
- 11. Building Area (Includes Roof Overhang + Deck) =2.788 SF
- 12. Building Coverage: 2.788 SF/1.639,309 SF=0.17%
- 13. Project Background: See Dept. of Planning and Zoning File Numbers: 5-00-13. P-01-15. PB-345. WP-01-88. WP-00-126. WP-01-60. WP-01-94. WP-02-50. 5DP-02-62. F-01-185. F-01-177. F-01-204 + F-03-85.
- \* THE NUMBER OF PARKING SPACES IS BASED UPON A PARKING NEEDS STUDY FOR THE STONE LAKE SUBDIVISION ONLY. THE PUBLIC WILL NOT HAVE ACCESS TO THE AMENITY AREA.



SITE DETAILS + HANDICAP ACCESSIBILTY PLAN SEDIMENT CONTROL PLAN SEDIMENT CONTROL NOTES + DETAILS LANDSCAPE PLAN LANDSCAPE NOTES + DETAILS UTILITY PROFILES. DETAILS + SCHEDULES

Open Space Lot 118

PLAT No. 15541

EXISTING STREET TREE ADDRESS CHART STREET ADDRESS SEWER CODE: 6100000 LOT 118 8835 DEEP WATER LANE SECTION/AREA STONE LAKE

DATE

JAN., 2003

EXISTING WATER

TAX MAP - GRID

Maryland

Welcome Ctr.

VICINITY MAP SCALE: 1'=2000'

DRAINAGE AREA MAP WATER CODE: SUBDIVISION NAME: P/O P 837 ELEC. DIST. CENSUS TRACT 15770 9/10 COVER SHEET SCALE G. L. W. FILE No. ZONING AS SHOWN

HOWARD COUNTY, MARYLAND

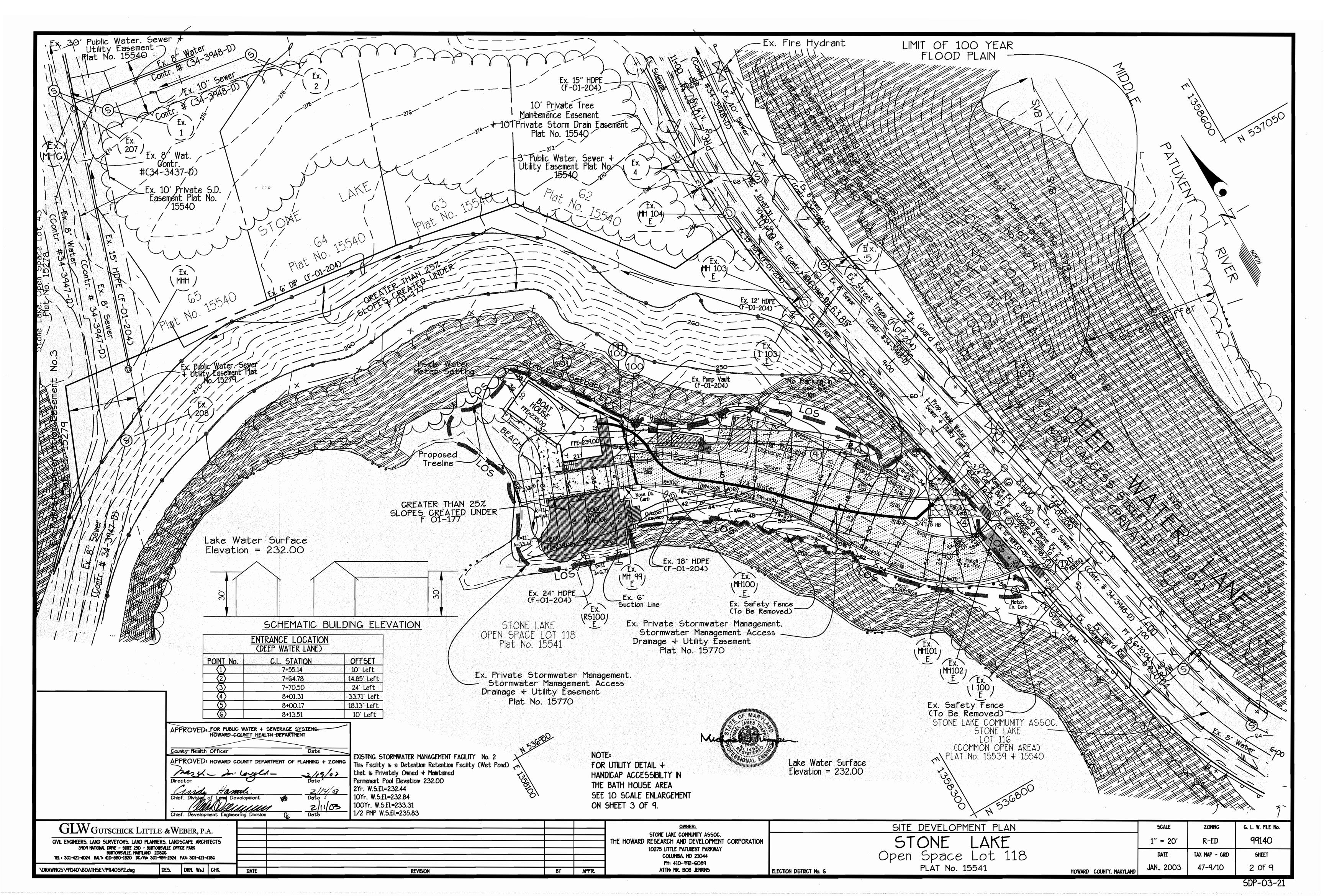
GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866

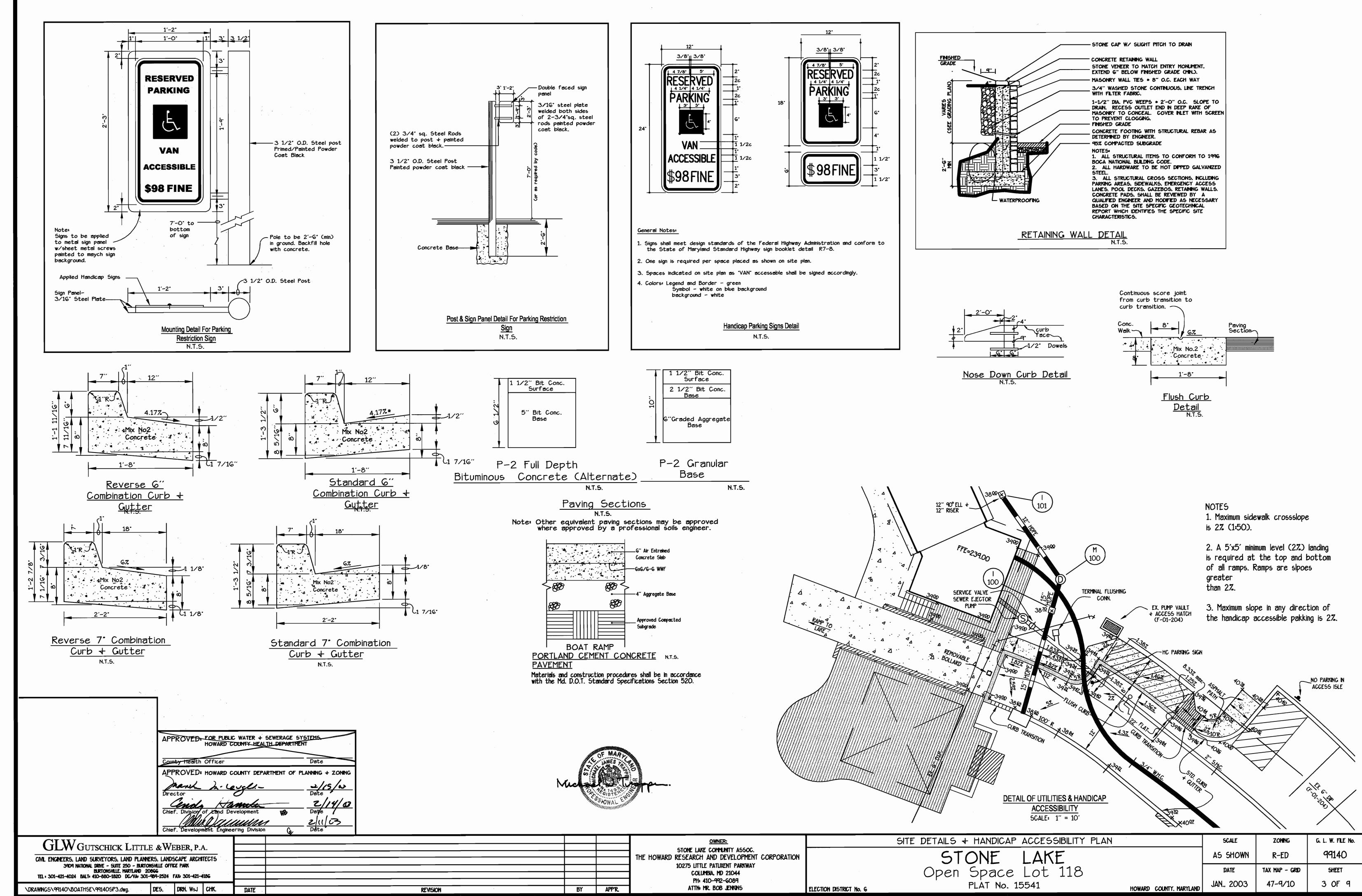
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

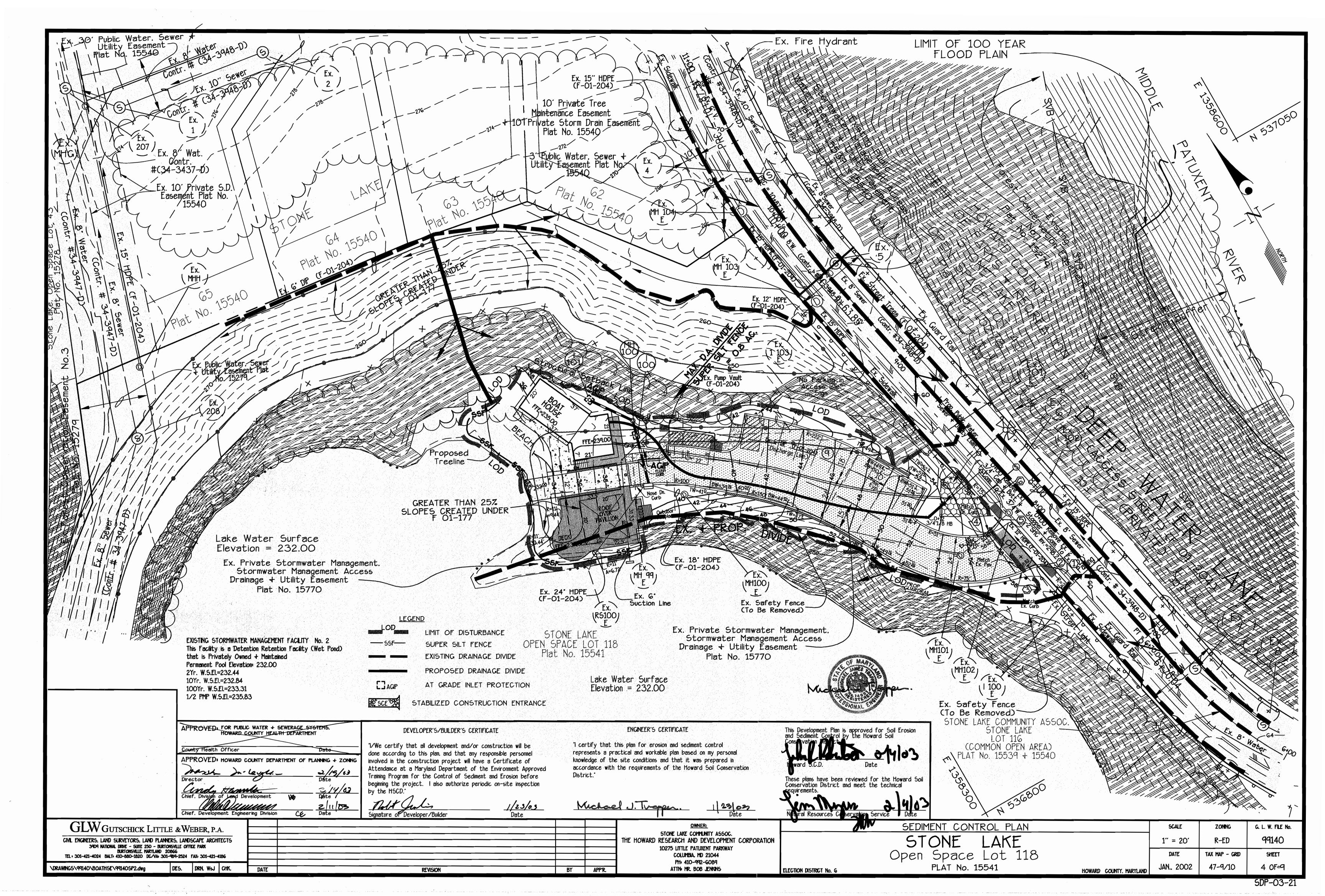
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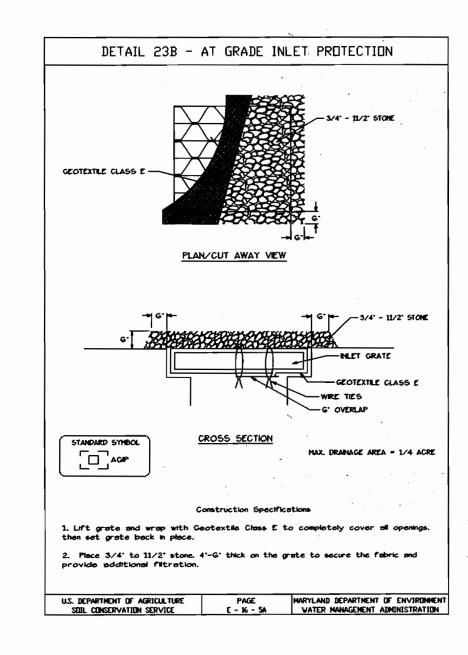
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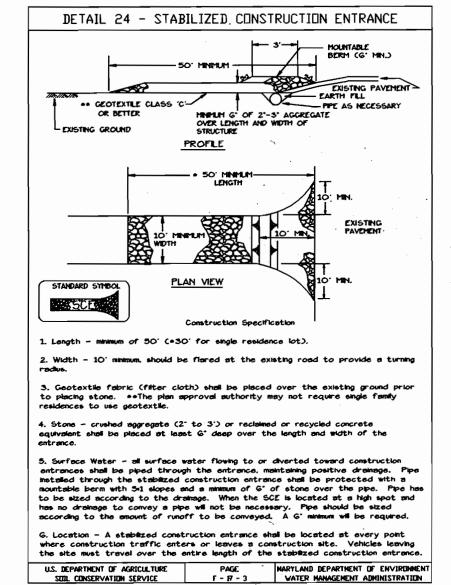
1 OF 9



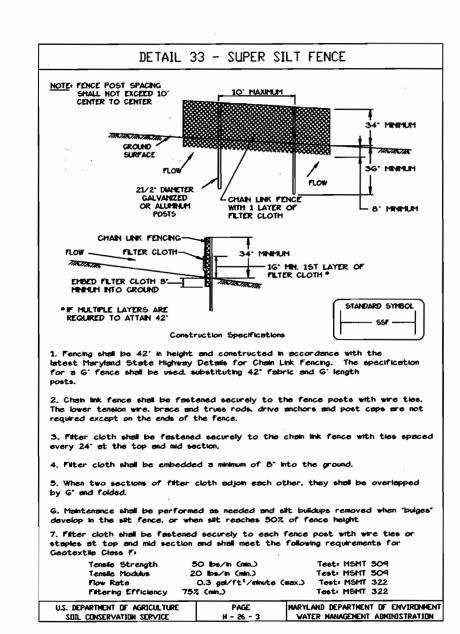












## ENGINEER'S CERTIFICATE

1 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

Michael J. Ticpan.

### DEVELOPER'S/BUILDER'S CERTIFICATE

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

1/8/03

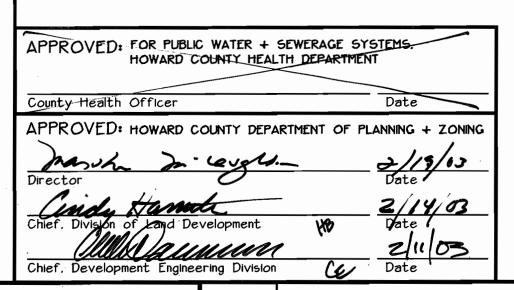
REVISION

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



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





#### STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION

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

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

#### CONDITIONS WHERE PRACTICE APPLIES I. This practice is limited to areas having 2:1 or flatter slopes

- 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 or furnish continuing supplied of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is
- not feasible. II. 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 as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the respective soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental
- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
- Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by a agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders. stones, slag, coarse fragments. gravel, sticks, roots, trash, or other materials larger than 1 1/2° in diameter.
- ii. Topsoil must be free of plant parts such as bermuda grass, quackgrass. Johnsongrass. nutsedge, poison ivy. thistle, or others as specified.
- iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate if 4-8 tons/acre (200-400 pounds per 1.000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- I. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 -Vegetative Stabilization Methods and Materials.
- II. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
  - a. ptt 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 greater than 500 parts per mill shall not be used.
  - d. No sod or seed shall be placed on soil which has been with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of photo-toxic materials.
- 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.
- ii. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I -Vegetative Stabilization Methods and Materials.
- V. Topsoil Application
- When topsoilling, maintain needed erosion and sediment control practices such as diversion. Grade Stabilization Structures. Earth Dikes. Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4°-8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4'-8' layer and lightly compacted to a minimum thickness of 4'. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoilling or other operations shall be corrected in order to prevent the formation of depressions or water
- iv. Topsoil shall not be placed while the topsoil or subsoil is frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer. composted sludge and amendments may be applied as specified below:

### PERMANENT SEEDING NOTES

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

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

- 1) Preferred Apply 2 tons per acre dolomitic limestone (100 lbs/1000 square feet) and 175 bs per acre 10-20-20 fertilizer (4 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding apply 150 lbs per acre 46-0-0 unreaform fertilizer (3-1/2 lbs/1000 sa ft).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (100 lbs/1000 sq ft) and 325 lbs per acre 10-20-20 fertilizer (7-1/2 bs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru May 15. and August 15 thru October 15, seed with 150 lbs per acre (3.4 lbs/1000 sq ft) of Mix 3. For the period May 16 thru August 14. seed with 133 lbs. Mix 7 per acre. During the period of October 16 thru February 28. protect site by: Option (1) 2 tons per acre of well anchored anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 150 lbs/acre Mix 3 and mulch with 2 tons/acre well anchored straw.

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

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

# TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed 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 (15 16s/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 4 lbs per acre of weeping lovegrass (.09 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 (70 to 90 lbs/1000 sq ft) of unrotted, weed-free, 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 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.

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements. the appropriate constituents must be added to meet the requirements
- prior to use. c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

ELECTION DISTRICT No. 6

iv. Composted sludge shall be amended with a potassium fertilizer applied at a rate of 41b/1.000 square feet. and 1/3 the normal lime application rate.

Guideline Specifications, Soil Preparation and Sodding. MD-VA Pub. #1. Cooperative Extension Service. University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

### 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.
- 3. Following initial soil disturbance or redisturbance. 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
- 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 seeding and mulching (Sec. G). 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:

37.63 Acres Total Area of Site Area Disturbed 0.44 Acres 0.21 Acres Area to be roofed or paved Area to be vegetatively stabilized: 0.23 Acres Total Cut 5.000 Yds. Total Fill 5.000 Yds. Off-site waste/borrow area location: N/A

- 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 DPW 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 one working day. whichever is shorter.

### SEQUENCE OF CONSTRUCTION

- 1. Obtain permits and arrange for pre-construction meeting with the Sediment Control Inspector (1 day);
- 2. Install stabilized construction entrance and perimeter super silt fence. (1 week);
- 3. Fine grade site (1 weeks)
- 4. Construct building (4 months);
- 5. Install utilities.(1month);
- 6. Install curb and gutter, sidewalks and base pave. Stabilize areas with grass seed and mulch (2 weeks);
- 7. When permission has been granted by the sediment Control inspector and all areas draining to the sediment controls have been stabilized, remove sediment controls and stabilize with grass seed and mulch (2days);
- 8. Install landscaping. (2days);
- 9. Install surface course paving and parking lot striping (3days).

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

\99140\DESIGN\BOATHSE\99140SP5.DWG

DES. DRN.WsJ CHK. DATE BY APP'R.

OWNER: STONE LAKE COMMUNITY ASSOC. THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044 PH: 410-992-6089 ATTN: MR. BOB JENKINS

Sediment Control Notes and Details LAKE Open Space Lot 118

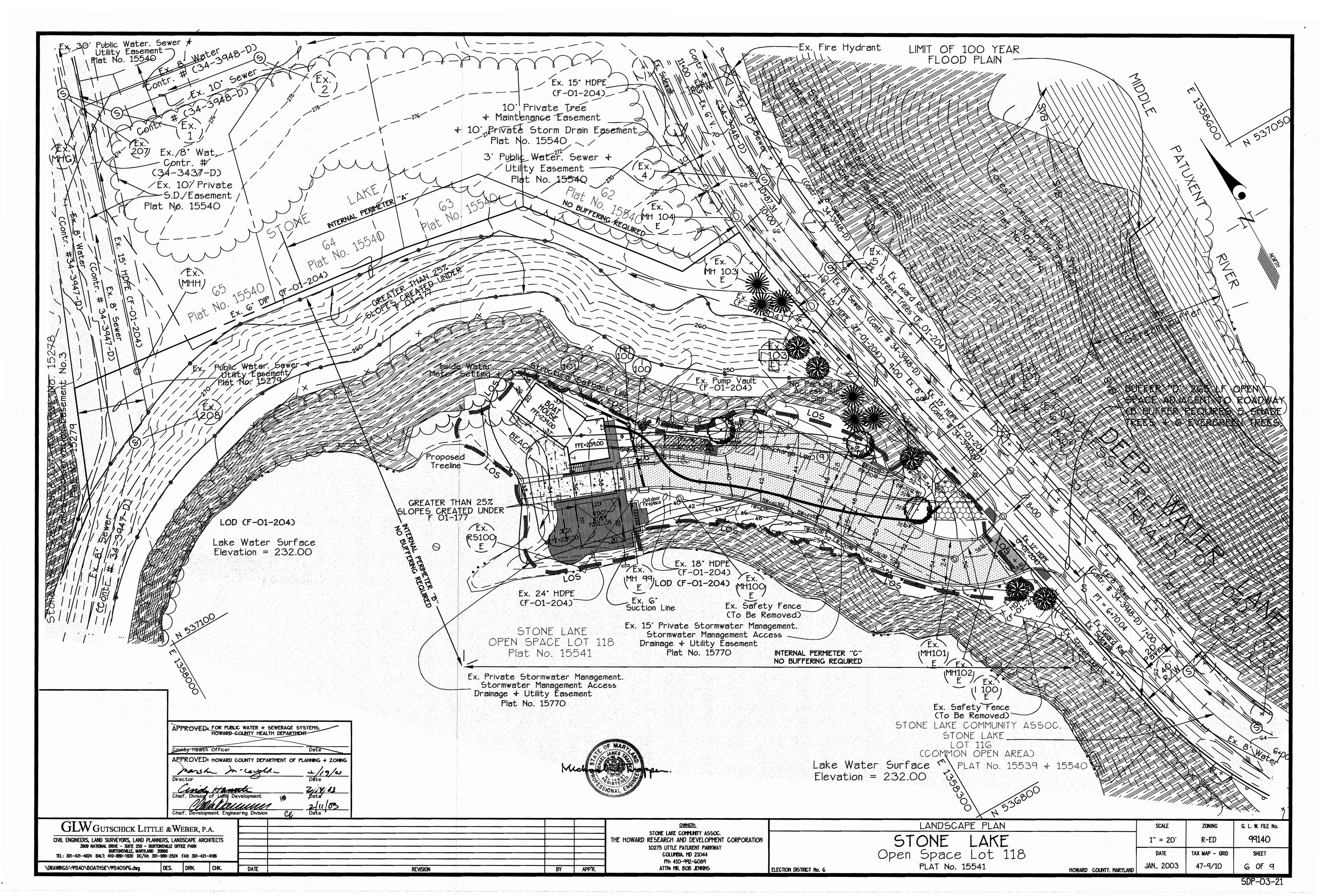
G. L. W. FILE No. R-ED TAX MAP - GRID Jan. 2003 47-9/10 PLAT No. 15541 HOWARD COUNTY, MARYLAND

5DP-03-21

99140

SHEET

5 OF 9



 		<u> </u>		_
Plant List				
SYMBOL	QTY.	NAMES (BOTANICAL / SCIENTIFIC)	SIZE ROOT COMMENTS	
WP	6	pinus strobus white pine"	8'-10' HT. B + B	
A ****	5	ACER RUBRUM "OCTOBER SUNSET" OCTOBER SUNSET HAPLE	2 1/2" - 3"CAL. B + B	
a to the same of t	3	Quercus palustris Pin cak	2 1/2" - 3"CAL B + B	

SCHEDULE A PERMETER LANDSCAPE EDGE Category	Perimeter					
	Adj. to Roadways	Adj. to Internal Prop.				
	D	Α	В	C		
Landscape Type	В*	N/A	N/A	N/A		
Linear Feet of Roadway Frontage/Perimeter	265′	N/A	N/A	N/A		
Credit for Ex. Vegetation (Yes. No. Linear Feet) (describe below if needed)	NO	NO	NO	NO		
Credit for Wall, Fence or Berm (Yes, No. Linear Feet) (describe below if needed)	NO	NO	NO	NO		
Number of Plants Required Shade Trees Evergreen Trees Shrubs	5 <u>6</u>	N/A	N/A	N/A		
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 subst.) Shrubs (10:1 subst.) (describe plant substitution credits below if needed)	5 6	N/A	N/A	N/A		

A ROAD) BECAUSE EVERGREENS WILL PROVIDE BETTER SCREENING THAN SHRUBS

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces = 10. Number of Trees Required =

Number of Trees Provided = Shade Trees: 3 OtherTrees (2:1 substitution)

Alternative Compliance per HRD's Standards Alternative Compliance exceeds County requirements

Schedule 'B' Number of Equivalent Shade Trees (EST) for bonding: SURETY CALCULATION FOR THE REQUIRED HOWARD COUNTY LANDSCAPING

Schedule 'A' Number of Shade Trees for bonding:  $5 \times $300 = $1,500.00$ Schedule B' Number of Shade Trees for bonding:  $1 \times $300 = $300.00$ Schedule 'A' Number of Evergreen trees for bonding:  $6 \times $150 = $900.00$ 

TOTAL LANDSCAPE SURETY REQUIRED WITH GRADING PERMIT

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW GRADING PERMIT IN THE AMOUNT OF \$2,700.00

DEVELOPER'S / BUILDER'S CERTIFICATE

I/We certify that the landscaping shown on this plan will be done according to the plan. Section 16.124 of the Howard County Code and the Howard County Landscape manual. L'We further cerify that upon completion a Certification of Landscape Installation, accompanies by an executed one-year guarantee of plant materials, will be submitted to the Department of Planning

\$2,700,00

18/03

# LANDSCAPING NOTES

- 1. This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Chapter VI (Alternative Compliance) of the Howard
- 2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities.
- 3. Field verify underground utility locations and existing conditions before starting planting work. Contact engineer / landscape architect if
- 4. Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan
- 5. All plant material shall be full heavy, well formed, and symmetrical. and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- 6. No substitution shall be made without written consent of the owner or his representative.
- 7. All areas disturbed by construction activities but not otherwise planted, paved, or mulched shall be seeded or sodded in accordance with the project specifications.
- 8. The contractor shall notify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the
- All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.
- 10. 'Schedule A Perimeter Landscape Edge: and 'Schedule B Parking Lot internal Landscaping are provided for landscape surety calculation purposes only. Financial surety for the required landscaping shall be posted with the grading permit in the amount of \$2.700.00.
- 11. Tabulation for landscape shows

Planting provided: Shade Trees (proposed) 8 Evergreen Trees (proposed): 6



#### PLANT MATERIALS AND PLANTING METHODS

The landscape contractor shall furnish and install and/or dig, ball, burlap and transplant all of the plant materials called for on drawings and/or listed in the Plant, Schedule,

### 1. Plant Names

Plant Standards

Plant names used in the Plant Schedule shall conform with "Standardized Plant Names."

All plant material shall be equal to or better than the requirements of the "USA Standard for Nursery Stock' latest edition, as published by the American Association of Nurserymen Chereafter referred to as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth and shall be first quality, sound, vigorous, well-branched and with healthy, well-furnished root systems. They shall be free of disease. insect pests and mechanical injuries.

All plants shall be nursery grown and shall have been grown under the same climate conditions as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.

# 3. Plant Measurements

All plants shall conform to the measurements specified in the Plant Schedule as approved by

- a. Caliper measurements shall be taken six inches (G") above grade for trees under four-inch (4") caliper and twelve (12") above grade for trees four inches (4°) in caliper
- b. Minimum branching height for all trees shall be six feet (6). maximum eight feet (87.
- c. Minimum size for planting shade trees shall be 3-3 caliper, 14'-16' in height.
- d. Minimum size for planting minor or intermediate focus trees (pines crabapples, etc.) shall be 3'-3 caliper, 10'-12' in height.
- e. Minimum size for planting shrubs shall be 18" - 24" spread unless noted otherwise.
- f. Caliper, height, spread and size of

ball shall be generally as follows:

3' - 3.5' 14'-16' 6'-8' 32' diameter 3.5"- 4" 14"-16" 8"-10" 36" diameter 4" - 4.5" 16"-18" 8"-10" 40" diameter 4.5'- 5' 16'-17' 10'-12' 44' diameter 5° - 5.5° 16'-20' 10'-12' 48' diameter 5.5'- 6' 18'-20' 12'-14' 52' diameter

CALIPER HEIGHT SPREAD SIZE OF BALL

All plant material shall generally average the median for the size ranges indicated above as indicated in the "AAN

# Plant Identification

Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles o boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certificates of Inspection as required by Federal State and County

#### The ARC may, upon request by the builder or developer, at least ten (10) days prior to the

5. Plant Inspection

installation of any proposed plant material. inspect all proposed plant material at the source of origin.

# Planting Methods

All proposed plant materials that meet the specifications in Section A are to be planted in accordance with the following methods during the proper planting seasons as described in the following:

# Planting Seasons

The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be continued during the winter months providing there is no frost in the ground and frost-free topsoil planting mixtures are used.

The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively moist. No frozen or wet topsoil shall be used at any time.

All plant material shall be dug, balled and burlapped (B+B) in accordance with the "AAN

# 3. Excavation of Plant Pits

The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following

- a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.
- b. All pits shall be generally circular in outline, vertical sides; depth shall not be less than 6' deeper than the root ball diameter shall not be less than two times the diameter of the root ball as set forth in the following schedule.

c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18' depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12° in depth minimum.

#### d. Diameter and depth of tree pits shall generally be as follows:

PLANT SIZE 3° - 3.5°cal. 32° 3.5'- 4' cal. 36' 4" - 4.5"cal. 40" 4.5'- 5' cal. 44' 5" - 5.5"cal. 48" 5.5'- 6' cal. 52'

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposes of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

#### 4. Staking, Guying and Wrapping All plant material shall be staked or guyed and wrapped

in accordance with the following specifications:

- a. Stakes: Shall be sound wood 2° x 2° rough sawn oak or similar durable woods, or lengths, minimum 7'-0' for major trees and 5'-0' minimum for
- b. Wire and Cable: Wire shall be #10 ga. gaivanized or bethanized annealed steel wire. For trees over 3° caliper. provide 5/16° turn buckles, eve and eve with 4" takeup. For trees over 5° caliper. provide 3/16. 7 strand cable cadmium plated steel with galvanized 'eye' thimbles of wire and hose on trees up to 3° in
- c. Hose: Shall be new. 2 ply reinforced rubber hose, minimum 1/2 I.D. "Plastic Lock Ties" or "Paul's Trees Braces' may be used in place of wire and hose on trees up to 3'
- d. All trees under 3° in caliper are to be planted and staked in accordance with the attached Typical Tree Staking Detail. All trees over 3 in caliper are to be planted and guyed in accordance with the attached Typical Tree Guying

### 5. Plant Pruning, Edging and Mulching

- a. Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements. in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1° in diameter shall be painted with an approved antiseptic tree wound
- b. All trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine
- c. After cultivation, all plant materials shall be mulched with a 2° layer of fine, shredded pine bark. peat moss, or another approved material over the entire area of the bed or soucer.

# 6. Plant Inspection and Acceptance

The ARC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is proceeding in accordance with the approved plans and specifications.

# 7. Plant Guarantee

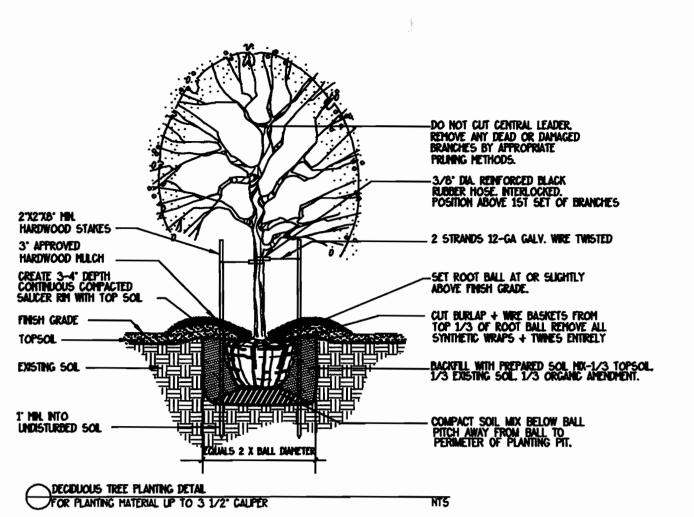
All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

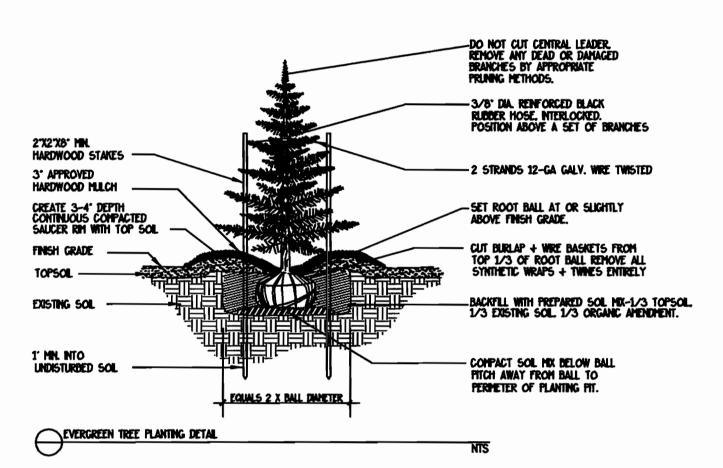
- For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the 'Fall' planting
- b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following "Spring" planting season.

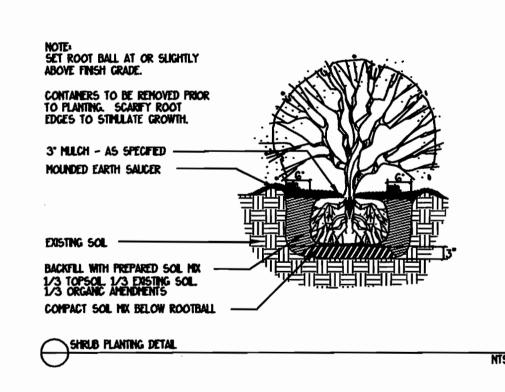
ELECTION DISTRICT No. 6

All sodding shall be in accordance to the "Landscape Specification Guidelines for Baltimore-Washington metropolitan Areas' latest edition approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape

All sod shall be strongly rooted sod, not less than two years old and free of weeds and undestrable native grasses. Provide only sod capable of growth development when planted and in strips not more than 18' wide x 4' long. Provide sod composed principally of improved strain Kentucky bluegrass, such as. Columbia. Victa. or







PRIOR TO PLANTING CUT POT-BOUND ROOTS. AFTER PLANTING. THE ENTIRE GROUND COVER BED SHALL BE THOROUGHLY WATERET 1/3 TOPSOL. 1/3 EXISTING SOL. 1/3 ORGANIC AMENDMENTS SCARIFY TO 3' DEPTH -UNDISTURBED SOL

GROUNDCOVER PLANTING DETAIL

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 99140\DESIGN\BOATHOUSE\99140SP7.DWG DES. DRN. WsJ CHK.

APPROVED. FOR PUBLIC WATER + SEWERAGE SYSTEMS

County Health Officer

HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

Date

revision

OWNER: STONE LAKE COMMUNITY ASSOC. THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044 PH: 410-992-6089 ATTN: MR. BOB JENKINS

LANDSCAPE NOTES + DETAILS STONE LAKE
Open Space Lot 118 PLAT No. 15541

SCALE ZONING G. L. W. FILE No. 99140 NOT TO SCALE R-ED TAX MAP - GRID SHEET Jan. 2003 7 OF 9 HOWARD COUNTY, MARYLAND

SDP-03-21

