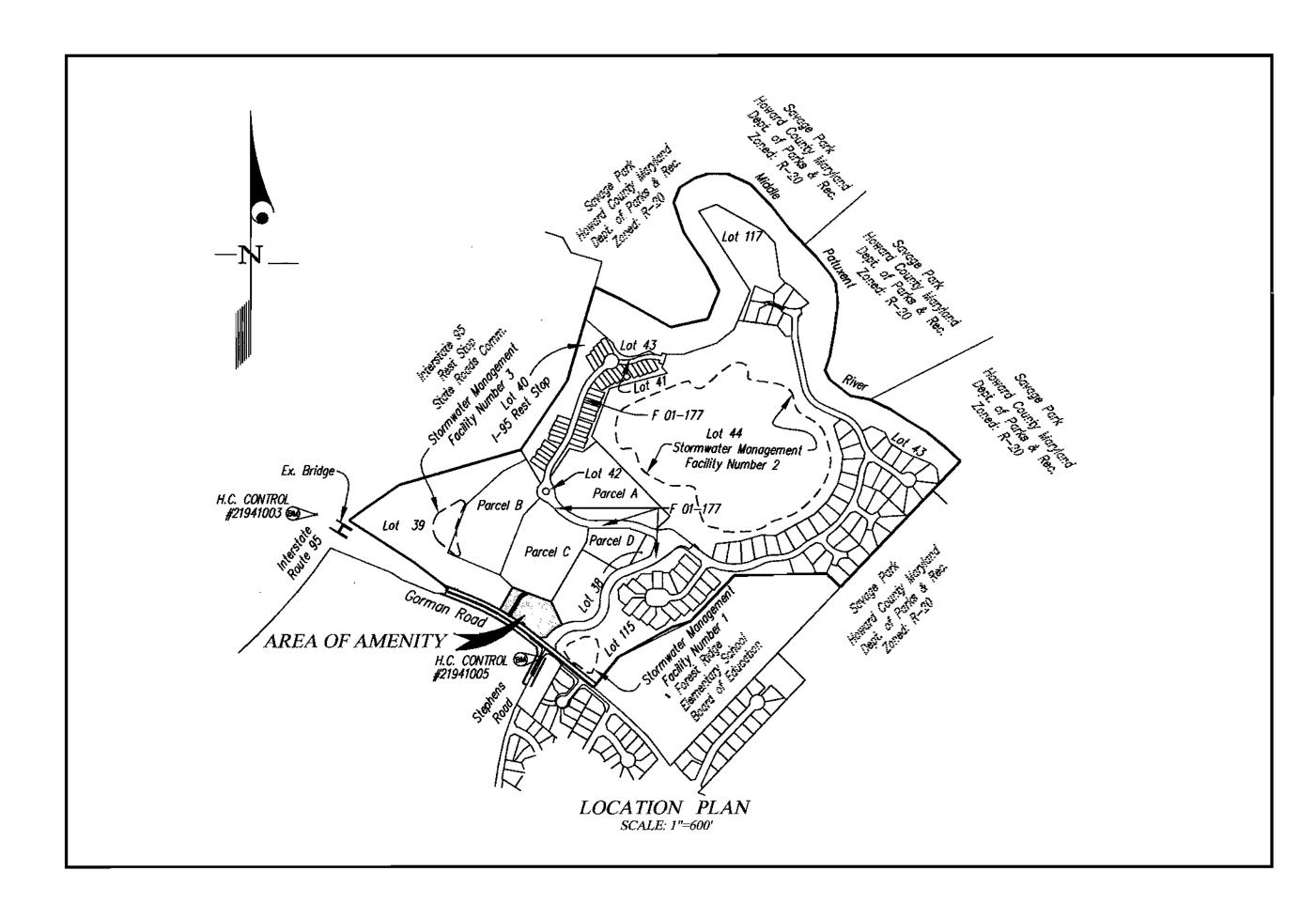
GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standard and specifications if applicable.
- 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 start of work.
- 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 working days prior to starting any excavation
- 5. Limit of Submission: 2.36 Ac. Disturbed Area: 2.36 Ac.
- 6. 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.
- 7. All plan dimensions are to face of curb unless otherwise noted.
- 8. Topography shown has a 2' contour interval and was determined by: Aerial photography by Daft, McCune & Walker, summer 1998.
- 9. Coordinates and bearings are based upon the MD State Plane System (NAD '83).
- 10. Water and sewer shown is public.
- 11. All existing water and sewer is shown per Cont. Nos. 34-4010-D, 34-3497-D & 44-3949-D.
- 12. Stormwater management for the improvements shown on these plans is provided at the facility on Open Space Lot 115. Water Quality and Management of the 2 and 10 year storm events is provided by Retention/Detention (Wet Facility). The facility will be privately owned and maintained.
- 13. All existing public and private storm drain is per F-01-185 & F-01-177.
- 14. All curb radii is 5' unless noted otherwise.
- 15. Utility information taken from approved final construction plans for development.
- 16. Sidewalks adjacent to perpendicular parking shall be 6' wide. All other sidewalks shall be 4' wide, except where dimensioned otherwise. Provide 3' radius rounding at all angle breaks and intersections.
- 17. Contractor shall utilize PVC pipe for all sewer house connections. Contractor shall utilize D.I.P. (Cl. 51) for 4" and 6" water house connections and D.I.P. (Cl. 50) for 8" sewer house connections.
- 18. For all storm drain connections at existing stubs, the contractor shall remove the existing blocking and maintain the same grade and alignment.
- 19. Use trench bedding class "C" for storm drains.
- 20. Paved areas indicated are private except as noted.
- 21. Project background: See Dept. of Planning & Zoning File Numbers: S-00-13, P-01-15, PB-345, WP-01-88, WP-00-88, WP-00-126, WP-01-60, WP-01-94, AA-01-29.
- 22. Recording reference: Plat No. 15274.
- 23. All proposed ramps shall be in accordance with current A.D.A. standards.

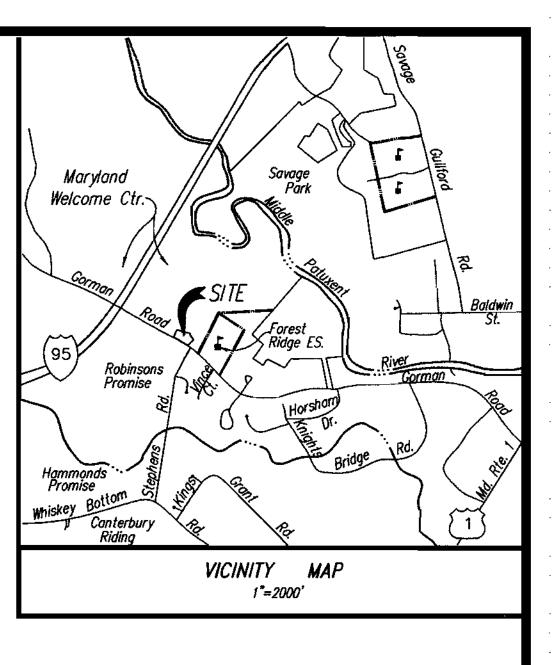
 Maximum sidewalk cross slope shall be two percent. Provide a five-foot by five-foot level
 (2 percent max.) landing at the top and bottom of all ramps.
- 24. All water meters shall be located inside buildings.
- 25. The proposed water and sewer house connection alignments indicated on the plans, from the existing utilities to the building, are to be constructed by the building plumber and are approximate.
- 26. Administrative adjustment no. AA 01-29 was granted on December 27, 2001 allowing the 15' maximum encroachment into the 75' Use Setback for the construction of the tennis courts.
- 27. Maintain 2% 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 sidewalk and the building wall.
- 28. 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.
- 29. A traffic study was prepared and submitted as part of the Sketch Plan.
- There is no floodplain within the limits of submission (LOS).
 There are no wetlands within the limits of submission (LOS).
- 32. Horizontal and vertical control are based on Howard County Control Sta. 21941003 & 21941005.

SITE DEVELOPMENT PLAN FOR AMENITY AREA STONE LAKE



SHEET INDEX

- 1. Cover Sheet
- 2. Site Development Plan
- 3. Landscape Details/Notes/Schedules
 4. Site Details
- 5. Sediment Control Plan/Drainage Area Map
- 5. Sediment Control Plan/Drainage Area Map
 6. Sediment Control Notes/Details & Utility Profiles



SITE ANALYSIS

- 1. AREA OF PLAN SUBMISSION: 2.36 AC. ±
- 2. LIMIT OF SUBMISSION: 2.36 AC. ±
- 3. ZONING: R-ED
- 4. PROPOSED USE: TENNIS COURTS AND GUARD HOUSE
- 5. PARKING SPACES REQUIRED: 0
- 6. HANDICAP PARKING SPACES REQUIRED: 0
- 7. PARKING SPACES PROVIDED: 6
- 8. HANDICAP PARKING SPACES PROVIDED: 1
- * THE NUMBER OF REQUIRED PARKING SPACES IS BASED UPON A PARKING NEEDS STUDY FOR THE STONE LAKE SUBDIVISION ONLY, SINCE THE PUBLIC WILL NOT HAVE ACCESS TO THE AMENITY AREA.



HOWARD COUNTY, MARYLAND

						ADDRESS CHAI	₹1
			AMENITY	AREA		STREET ADDRESS	·
			EAST ENTRA	ANCE V	VALL	8602 STONE LAK	E DRIVE
			WEST ENTR	ANCE V	WALL	8603 STONE LAK	E DRIVE
ER CODE:			GUARD HOUSE			8604 STONE LAKE DRIVE	
£15			GAZEBO/Tennis Ct.		8605 STONE LAK	E DRIVE	
BDIVISION I		STONE (LAKE		SE	CTION/AREA	PARCEL o.s. lot 39
PLAT	ZONE	TA	X MAP	Rid	UCK	FLEC DIST	CENSUS TRACT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Orector

Date

Chief, Division of Land Development

Chief, Development Engineering Division (6)

Date

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\amenity sdp\99140SP1.DWG
DES, DEV DRN. JAU CHK. DEV DATE

REVISION
BY APP'R.

OWNER:

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MD 21044

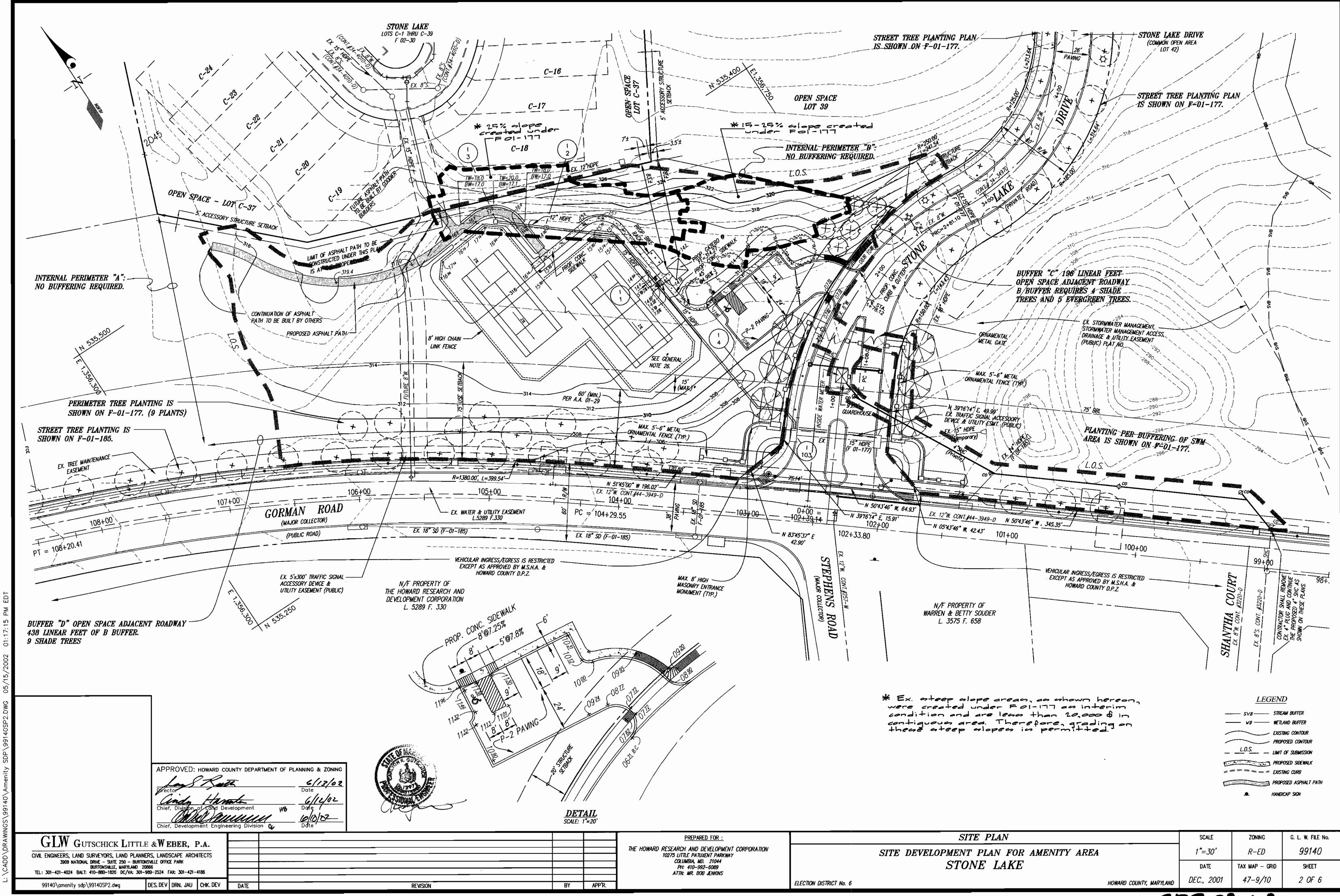
PH: 410-992-6089

ATTN: MR. BOB JENKINS

ELECTION DISTRICT No. 6

SITE DEVELOPMENT PLAN FOR AMENITY AREA
STONE LAKE

COVER SHEET



PLANT LIST SYMBOL	QTY.	NAMES (BOTANICAL / SCIENTIFIC)	SIZE	R00T	COMMENTS
w (X)	5	Pinus Strobus 'White Pine'	8'-10' HT.	B&B	
A	6	ACER RUBRUM 'OCTOBER SUNSET' OCTOBER SUNSET MAPLE	2-2 1/2" CAL.	B & B	
O STAN CONTRACTOR OF THE STAN	4	QUERCUS PALUSTRIS PIN OAK	22 1/2 CAL.	B & B	

SCHEDULE A PERIMETER LANDSCAPE EDGE		
Category	Perimeter	
	Adj. to Roadways C D	Adj.to Perim Prop. A B
Landscape Type	ВВ	N/A N/A
Linear Feet of Roadway Frontage/Perimeter	196' 438'	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	4 9 5 —	N/A N/A
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 subst.) Shrubs (10:1 subst.) (describe plant substitution	4 g * 5 —	N/A N/A

credits below if needed)	
SCHEDULE B	
PARKING LOT INTERNAL LANDSCAPING	
Number of Parking Spaces = 6 Number of Trees Requir	ed = 1
Number of Trees Provided = 3	
Shade Trees: 3	
OtherTrees (2: 1 substitution) NOTE:	
Alternative Compliance per HRD's Standards	
Alternative Compliance exceeds County requirements	
Cabadula 'D' Number of Fauturlant Shada Tanas (FST)	for handing. SUPETY ON CULATION FOR THE
Schedule 'B' Number of Equivalent Shade Trees (EST) REQUIRED HOWARD COUNTY LANDSCAPING	for bonding: Sokell CALCULATION FOR THE
THE PROPERTY OF THE PARTY OF TH	
Schedule 'A' Number of Shade Trees for bonding:	$4 \times $300 = $1,200.00$
Schedule 'B' Number of Shade Trees for bonding:	
Schedule 'A' Number of Evergreen trees for bonding:	$5 \times $150 = 750.00
TOTAL LANDSCAPE SURETY REQUIRED WITH GRADING PE	RMIT: \$2,250.00

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE GRAPING PERMIT IN THE AMOUNT OF \$2,250,00 * AS SHOWN ON SHEET 2, THESE 9 TREES ARE BEING PROVIDED UNDER F 01-177 AND WILL BE BONDED

LANDSCAPING NOTES

UNDER THAT PLAN AS WELL.

- 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 County Landscape Manual.
- 2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet 1 shall apply.
- 3. Field verify underground utility locations and existing conditions before starting planting work. Contact engineer / landscape architect if any relocations are required.
- 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 shall take precedence.
- 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 greas 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 natify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the
- 9. 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 developer agreement in the amount of \$2, 250.00.
- 11. Tabulation for landscape shown:

Planting provided: Shade Trees (proposed): 13 (4 UNDER THIS SDP AND 9 UNDER F 01-177) Evergreen Trees (proposed): 5

PLANT MATERIALS AND PLANTING METHODS

A. Plant Materials

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

2. Plant Standards

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 (hereafter 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 (6") 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 (8').
- 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:

CALIPER	HE I GHT	SPREAD	SIZE OF BALL
3" - 3.5" 3.5"- 4" 4" - 4.5" 4.5"- 5" 5" - 5.5"	14' -16' 16' -18' 16' -17'	6' -8' 8' -10' 8' -10' 10' -12' 10' -12'	32" diameter 36" diameter 40" diameter 44" diameter 48" diameter
5. 5" - 6"	18' -20'	12' -14'	52" diameter

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

4. Plant Identification

Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles or 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

5. Plant Inspection

The ARC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material, inspect all proposed plant material at the source of origin.

B. 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:

1. 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.

Digging

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 schedule:

- 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
- 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.

ELECTION DISTRICT No. 6

by the landscape contractor.

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 ot least 12" in depth minimum.

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

PLANT SIZE	ROOT BALL	DIAMETER	DEP1
3" - 3.5"cal.	32"	64"	28
3.5" - 4" cal.	36*	72 "	32
4" - 4.5"col.	40"	80"	36
4.5" - 5" cal.	44"	88"	4(
5" - 5. 5"cal.	48"	96"	44
5.5"-6" cal.	52"	104"	48

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 minor trees.
- b. Wire and Cable: Wire shall be #10 go. golvanized 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 caliper.
- 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" in caliper.
- 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 Detail"

5. Plant Pruning, Edging and Mulching

- a. Each tree, shrub or vine shall be pruned in an appropriate manner to its porticular 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 saucer.

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.

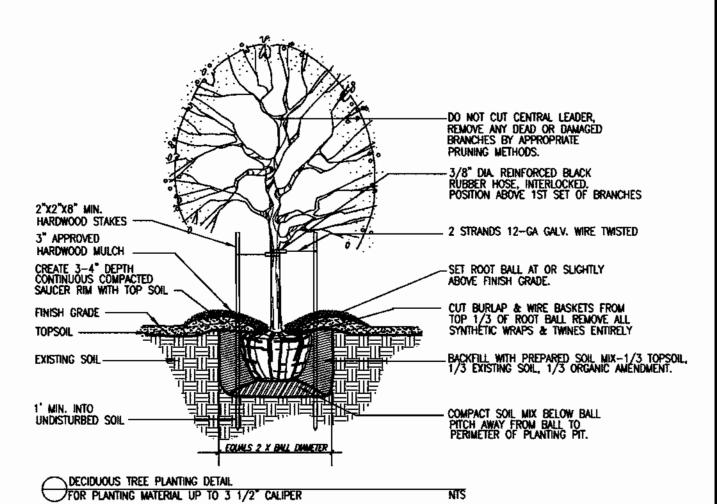
7. Plant Guarantee

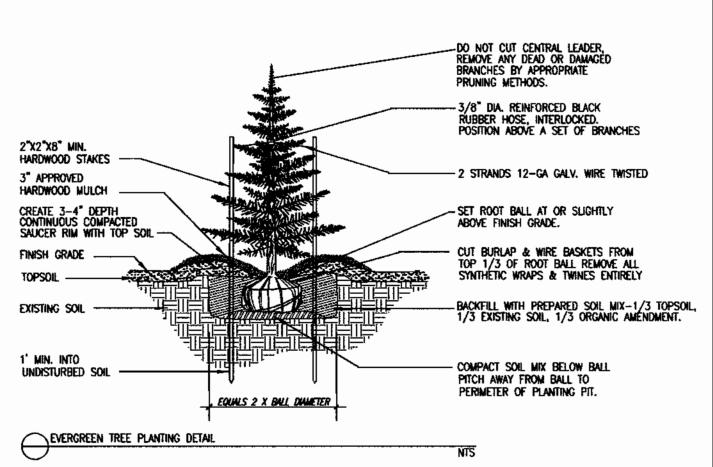
All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

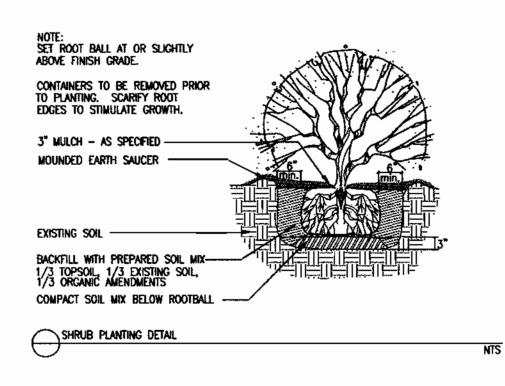
- a. For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the "Fall" planting
- b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following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

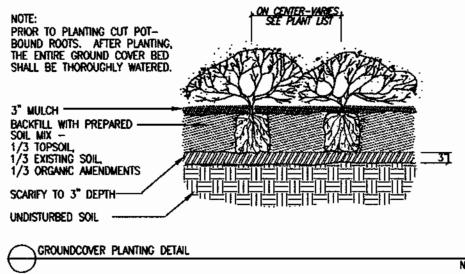
All sodding shall be in accordance to the "Landscape Specification Guidelines for Baltimore-Washington metropolitan Areas" latest edition, approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape

All sod shall be strongly rooted sod, not less than two years old and free of weeds and undesirable 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









SCALE ZONING NOT TO SCALE

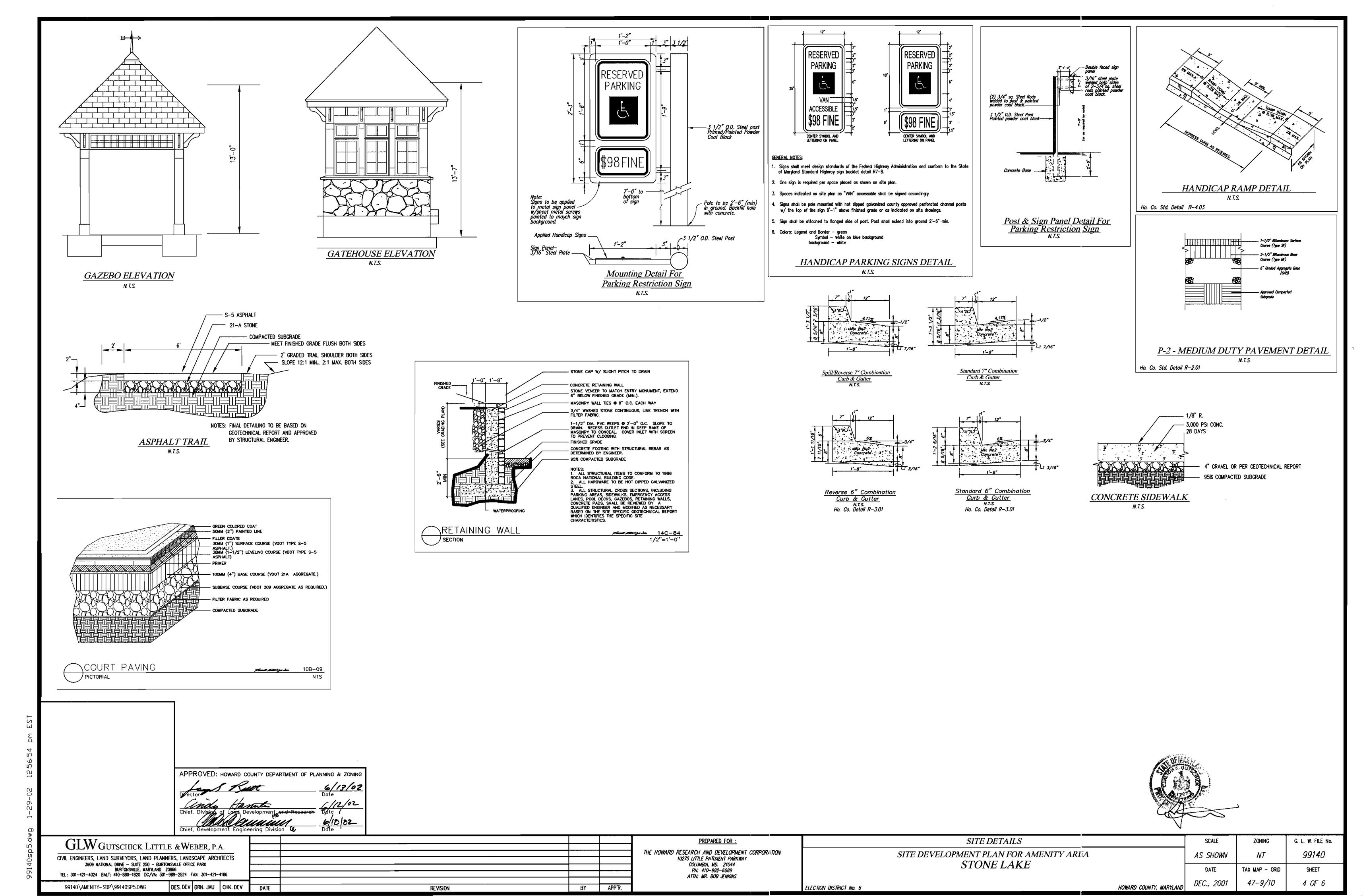
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

'hief, Development Engineering Division 🛭 🕊 GLWGUTSCHICK LITTLE &WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSWILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 DES.KMK DRN. KMK CHK. 99140\AMENITY\99140LD2.DWG DATE REVISION BY APP'R.

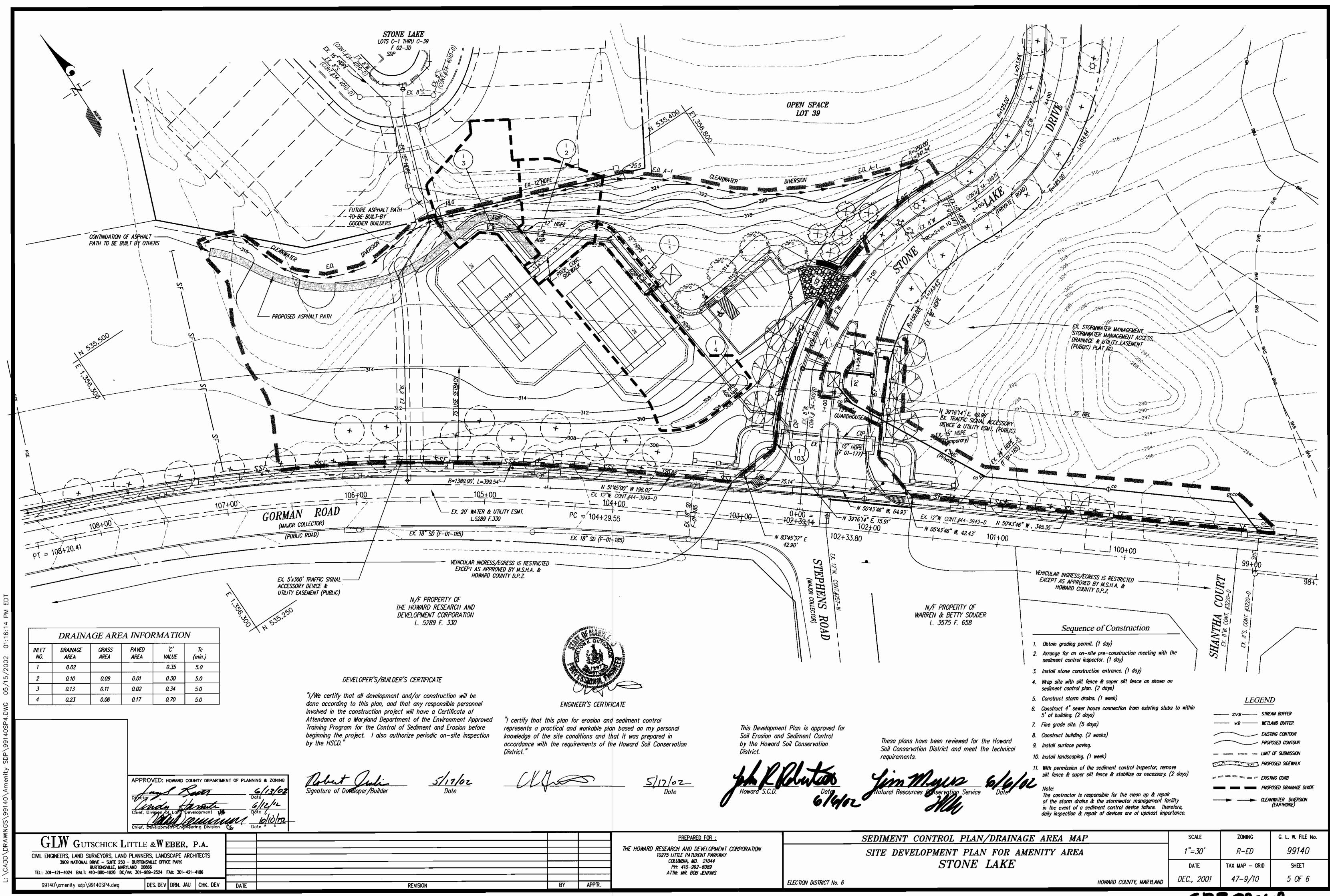
PREPARED FOR: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD. 21044 PH: 410-992-6089 ATTN: MR. BOB JENKINS

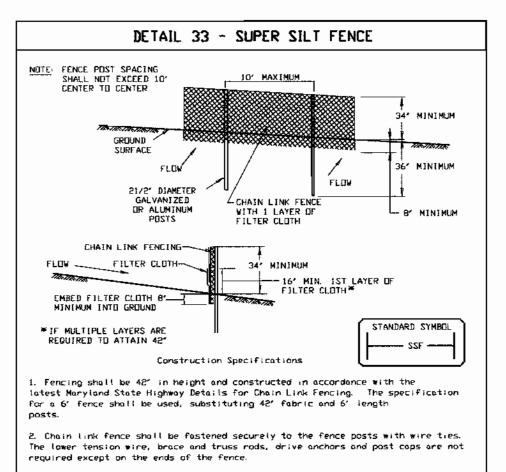
LANDSCAPE NOTES & DETAILS STONE LAKE **PARCEL**

G. L. W. FILE No. 99140 DATE SHEET TAX MAP - GRID 3 OF 6 HOWARD COUNTY, MARYLAND



50P 02-62





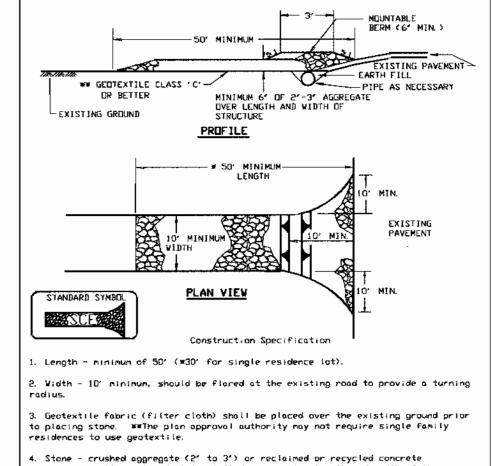
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24° at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8' into the ground. 5. When two sections of filter cloth adjoin each other, they shall be overlapped

6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height 7 Filter cloth shall be fostened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for

Tensile Strength 50 lbs/in (min.) Test: MSMT 509 Flow Rate 0.3 gal/ft /minute (max. Test: MSMT 322 Filtering Efficiency 75% (min.)

Test: MSMT 322 MARYLAND DEPARTMENT OF ENVIRONMENT VATER MANAGENENT ADMINISTRATION SOIL EDISERVATION SERVICE



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

equivalent shall be placed at least 6' deep over the length and width of the 5. Surface Water - all surface water flowing to or diverted toward construction entronces shall be piped through the entronce, maintaining positive drainage. Pipe

installed through the stabilized construction entrance shall be protected with a

to be sized according to the drainage. When the SCE is located at a high spot and

mountable bern with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has

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.

PAGE HARYLAND DEPARTMENT OF ENVIRONMENT
F - 17 - 3 VATER MANAGENEUT ABMINISTRATION

US DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

315 310 GROUND ALONG G PIPE PER F 01-177 1/8 BEND *305* HYDRAULIC -GRADIENT 15" HDPE @ 2.00% Q = 0.6 c.f.s.1/8 BEND $V_f = 1.7'/\text{sec.}$ $V_0 = 4.7'/\text{sec.}$ *300* 1/8 BEND 301.91 0+06--- 12" HDPE **0** 3.68% 15" HDPE @ 4.43% 1/8 BEND Q = 0.3 c.f.s. Q = 0.7 c.f.s.301,47 $V_f = 0.9'/sec.$ $V_f = 2.0^{\circ}/\text{sec.}$ $V_D = 5.4^{\circ}/\text{sec.}$ 295 Q = 2.0 c.f.s. $V_f = 1.6'/\text{sec.}$ $V_D = 8.3'/\text{sec.}$

STORM DRAIN PROFILE SCALE: 1"=50" HORIZ.

1"=5" VERT.

DETAIL 22 - SILT FENCE 36' MINIMUM LENGTH FENCE POST DRIVEN A MINIMUM OF 16' INTO MINIMUM HEIGHT OF 8' MINIMUM DEPTH IN PERSPECTIVE VIEW FENCE PDST SECTION MINIMUM 20' ABOVE GROUND EMBED GEDTEXTILE CLASS F FENCE POST DRIVEN A A MINIMUM OF 8' VERTICALLY CROSS SECTION _____sF ____ JOINING TWO ADJACENT SILT FENCE SECTIONS Construction Specifications 1. Fence posts shall be a minimum of 36' long driven 16' minimum into the ground. Wood posts shall be 11/2' x 11/2" square (minimum) cut, or 13/4' diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U 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 mid-section and shall meet the following requirements Test: MSMT 509 50 lbs/in (min.)

20 lbs/in (nin.)

2. Where ends of geotextile fabric came tagether, they shall be overlapped,

4. Silt Fence shall be inspected after each rainfall event and maintained when

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT

SINL CONSERVATION SERVICE E ~ 15 ~ 3 WATER MANAGEMENT ADMINISTRATION

bulges occur or when sediment accumulation reached 50% of the fabric height.

0.3 gal ft*/ minute (max.) Testi MSMT 322

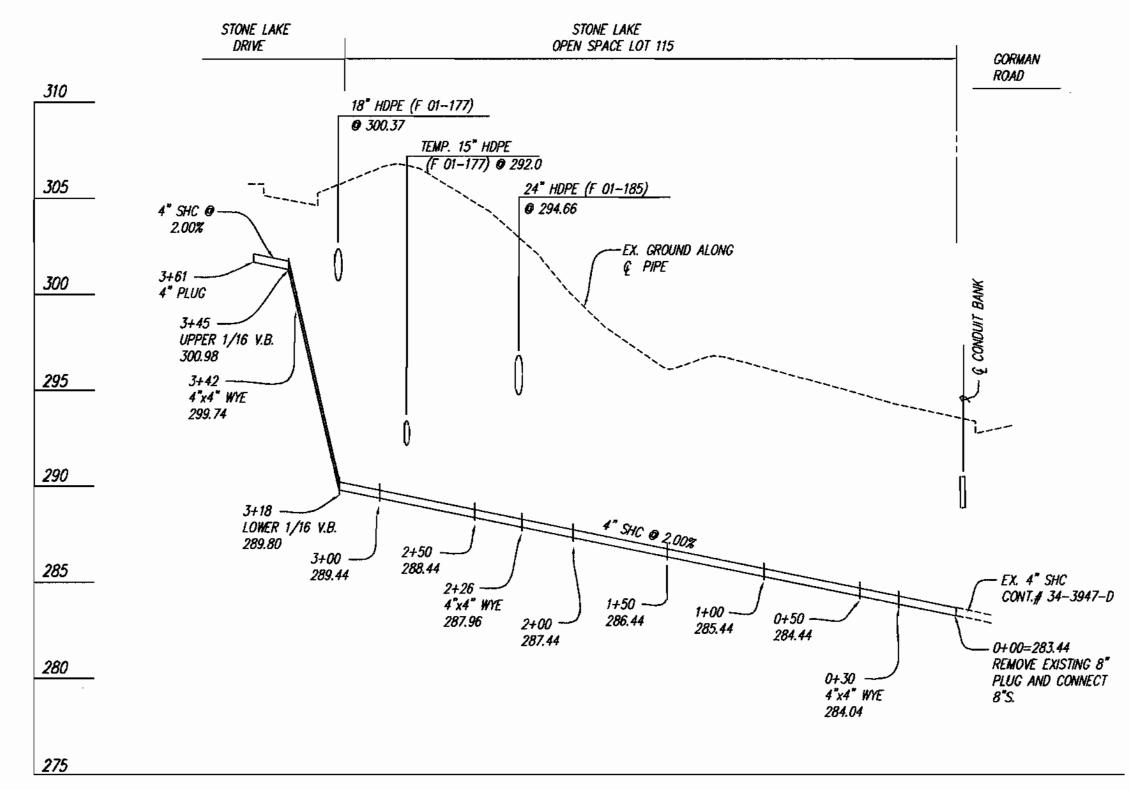
Tensile Modulus

Filtering Efficiency 75% (min.)

folded and stapled to prevent sediment bypass.

Test: MSMT 509

Test: MSMT 322

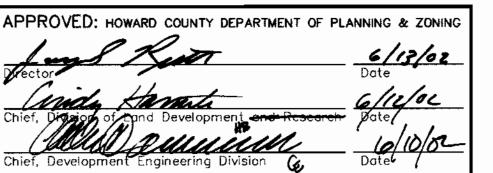


PRIVATE SEWER PROFILE SCALE: 1"=50' HORIZ.

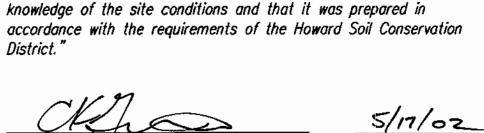
1"=5" VERT.

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/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."







PH: 410-992-6089 ATTN: MR. BOB JENKINS

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

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

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 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 seedings and mulching (Sec. G). Temporary stabilization, with mulch alone, can only be done

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

when recommended seeding dates do not allow for proper

7. Site Analysis:

Sediment Control Inspector.

2.36 Acres Total Area of Site 2.36 Acres± Area Disturbed 0.49 Acres± Area to be roofed or paved 1.87 Acres± Area to be vegetatively stabilized : Total Cut : ---- Cu. Yds. Total Fill : 2588 Cu. Yds. Off-site waste/borrow area location: Stone Lake (F 01-204)

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

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.

	STRUCTURE SCHEDULE							
NO.	TYPE	WDTH	TOP ELEVATION	INVERT E	LEVATION	STD. DETAIL	LOCATIONS	REMARKS
		(INSIDE)		UPPER	LOWER			
1	DRAIN BASIN	2'-0*	314.00	309.00	308.90	##	N 535,311 E 1,356,700	
2	DRAIN BASIN	2'-0"	314.00	311.07	310.82	##	N 535,383 E 1,356,654	
3	DRAIN BASIN	2'-0"	315.36		312.47	##	N 535,408 E 1,356,624	
4	DRAIN BASIN	2'-0"	307.00	304.55	304.35	##	N 535,200 E 1,356,612	

LOCATION IS TO CENTER OF DRAIN BASIN. ** INDICATES DRAIN BASIN BY ADS OR AN APPROVED EQUAL.

PIPE SCHEDULE							
SIZE	ΤΥΡΕ	QUANTITY (I.f.)	REMARKS				
12*	HDPE *	38 L.F.					
15"	HDPE *	265 L.F.					

* HDPE INDICATES HIGH DENSITY POLYETHYLENE. N-12 BY ADS, HI-Q BY HANCOR, OR AN APPROVED EQUAL.

ELECTION DISTRICT No. 6

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

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

previously loosened).

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 Ibs 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 unreaform 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.

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 Ibs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small arain 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 (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 (.07 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.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DES. DEV DRN. JAU | CHK. DEV | DATE

PREPARED FOR: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD. 21044

ENGINEER'S CERTIFICATE

represents a practical and workable plan based on my personal

"I certify that this plan for erosion and sediment control

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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BY

SEDIMENT CONTROL NOTES & DETAILS & UTILITY PROFILES SITE DEVELOPMENT PLAN FOR AMENITY AREA STONE LAKE

TAX MAP - GRID DEC., 2001 47-9/10 6 OF 6 HOWARD COUNTY, MARYLAND

SCALE

AS SHOWN

R-ED

G. L. W. FILE No.

99140

SHEET