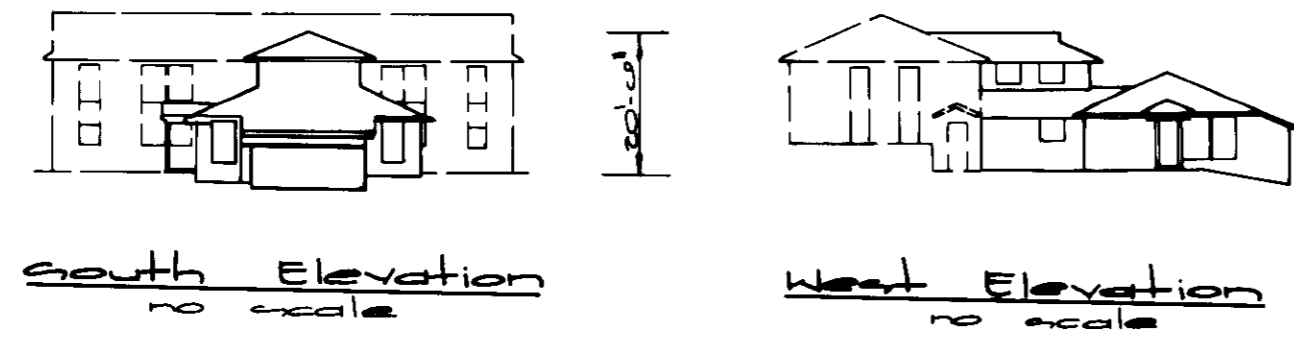
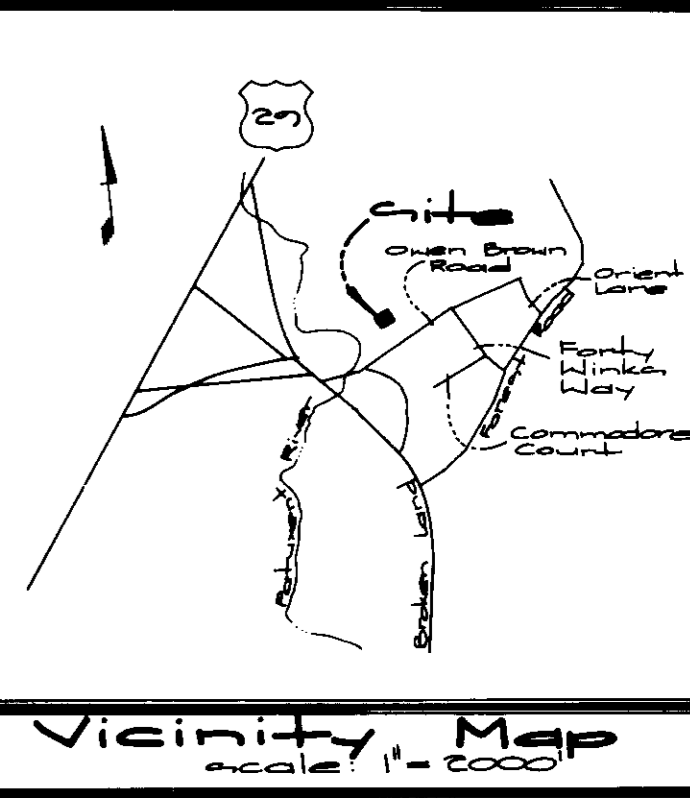


GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standard and specifications if applicable.
- The contractor shall notify the Department of Public Works/Construction Inspection Division at (410) 313-1855 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- 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 work.
- Site area: 1.96 acres.
- 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.
- Existing contours shown hereon were taken from a field run topography survey performed by Gutschick, Little & Weber, P.A. in March, 1997. Ex. Sanitary M.H. #4102 was used as the benchmark.
- Coordinates and bearings are based upon the MD State plan system (NAD '27).
- Water and sewer shown is public.
- Stormwater management (quantity and quality) is being provided on site.
- All existing water and sewer is per Contract 319-WMS.
- All existing public storm drain is per field survey by Gutschick, Little, and Weber, P.A.
- Utility information taken from approved final construction plans for development and field run topography.
- Contractor shall utilize PVC pipe for all sewer house connections. Contractor shall utilize D.I.P. (CL 51) for 6" water house connection.
- Paved areas indicated are private except as noted.
- Project background: See Dept. of Planning & Zoning File Numbers: BA Case 96-49E. Allowed expansion of existing species exception etc.
- 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 and building entrances and exits.
- Water meter shall be located inside building.
- The limits of public maintenance for waterhouse connections shall be 7' from the back of curb.
- All proposed site utilities are to terminate 5' from the building. The building plumber shall connect to and extend these utilities to the inside of the building.
- For Gas, Telephone and Electric routing, see plans by others.
- There is no floodplain on this site.
- There are no observed wetlands on this site.
- Building shall be fully sprinkled.



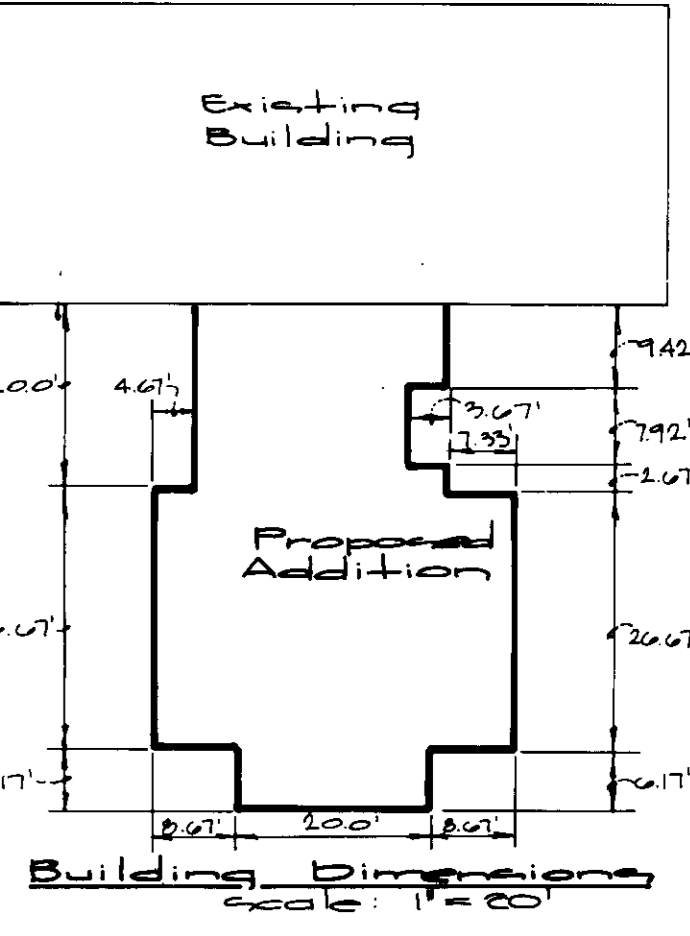
Benchmark
Ex. Sanitary Manhole #4102 Elevation



STEVEN'S FOREST
VILLAGE OF OAKLAND MILLS
SECTION 5 AREA 2
P.B. 18 P. No. 18

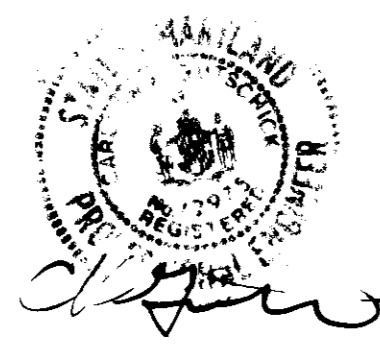
GALES PROPERTY
PLAT No. 115295

'BUCK-LEW PROPERTY'
PLAT No. 5490



SITE ANALYSIS

Project Area: 1.92 AC
 Limit of Disturbed Area: 1.21 AC ±
 Present Zoning: R-20
 Proposed Use: Montessori School
 Total Floor Space: 6410 sq ft (Green)
 No. of Parking Spaces Required: 10, 14C
 Building Coverage of Site: 28.20% ±
 Area of Landscaped Islands: 0.02 AC
 Area of Parking Lot: 0.17 AC ±



Legend

- Existing Contour
- Proposed Contour
- Existing Tree Line
- Ultimate Tree Line
- To Remain
- To Be Removed
- Entrance to be Utilized by Handicapped Persons

Sheet Index

- Site Development Plan
- Sediment Control Plan
- Landscaping Plan
- Sediment Control Notes, Details & Profiles
- Planting Notes & Details
- Notes and Details

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: [Signature] 2/25/98
 Chief, Division of Land Development: [Signature] 2/18/98
 Chief, Development Engineering Division: [Signature] 2/4/98

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 MO. NO. (301) 980-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

PREPARED FOR:
JULIA BROWN MONTESSORI SCHOOL
 9780 OWEN BROWN ROAD
 COLUMBIA, MD 21043
 (410) 730-5056

Site Development Plan
The Julia Brown Montessori School
 Village of Oakland Mills
 Section 5 Area 2

Water Code		Fence Code		Address Chart	
Parcel Number	Street Address	Parcel Number	Street Address	Parcel Number	Street Address
78	MD Owen Brown Road	78	MD Owen Brown Road	78	MD Owen Brown Road
Subdivision Name: Village of Oakland Mills		Section/Area: 5/E	Parcel: 78		
Plot: 9	Block: 9	Zone: R-20	Tax Map: 70	Elec. Dist: 6	Census Tract: 40000009

SCALE: 1"=20'	ZONING: R-20	G. L. W. FILE No.: 97037
DATE: Sept. '97	TAX MAP No.: 36	SHEET: 1 of 6

NO.	DATE	REVISION	BY	APPR.

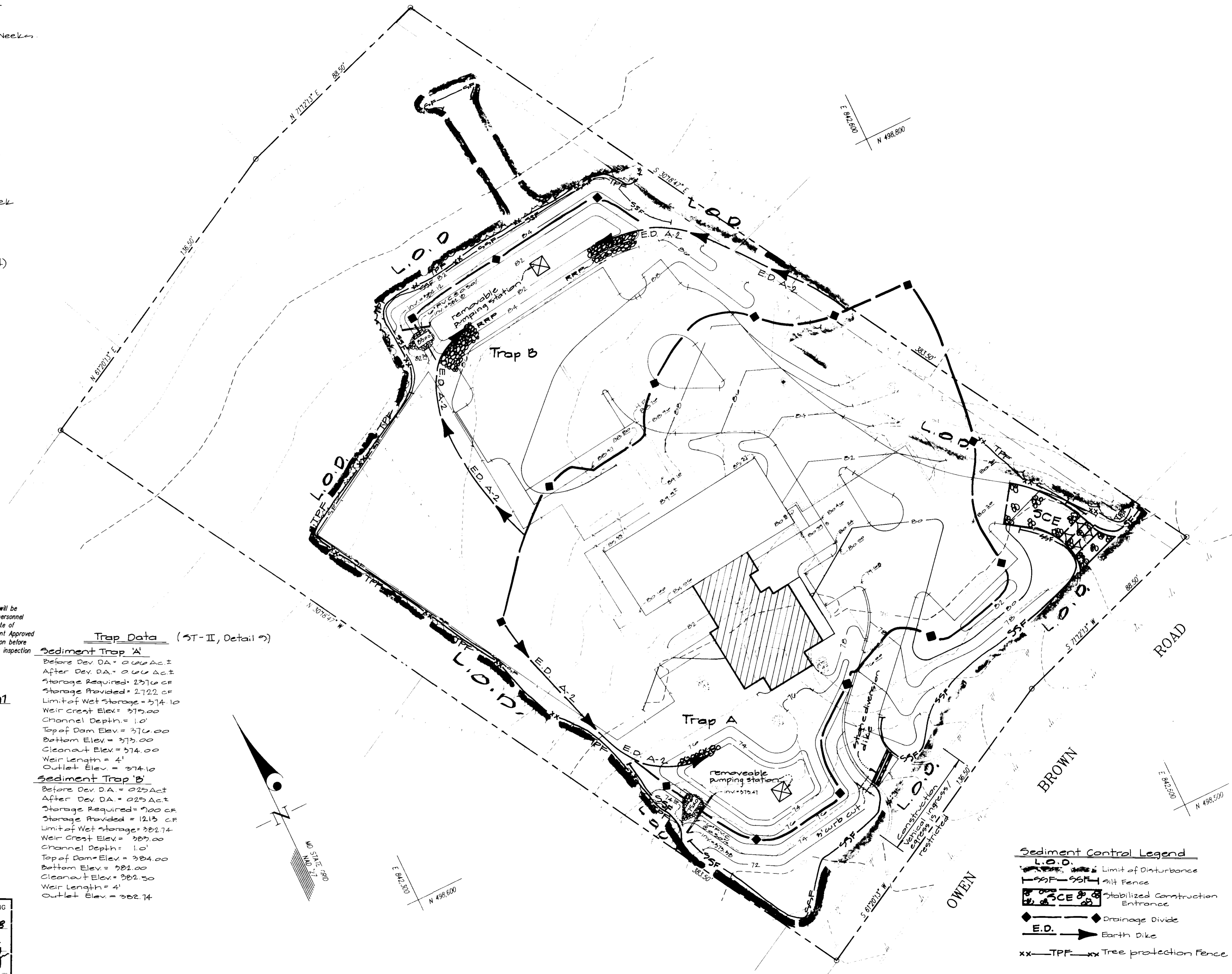
CULFORD ELECTRON DISTRICT No. 6

HOWARD COUNTY, MARYLAND

Sequence of Construction

1. Obtain grading permit. 1 day
2. Arrange on-site pre-construction meeting w/ sediment control inspector. 1 day
3. Install stone construction entrance, silt fence, & sediment traps 'A' & 'B' as shown on these plans. 2 Weeks
4. Fine grade site. 2 Weeks
5. Construct utilities to the building. 2 Weeks
6. Construct building. 4 Months
7. Install base paving, stabilize remaining areas w/ grass seed & mulch. 2 Weeks
8. When areas draining to sediment control measures have been stabilized & permission is granted from the sediment control inspector, the conversion from sediment traps to bio-retention facilities can begin. 1 Week
9. Install surface paving. 1 Week
10. Install landscaping. 1 Week
11. Remove all remaining sediment control devices. 1 Week

Note
After placing permanent seeding on bio-retention facilities, contractor must place erosion control matting (EriKamat or equivalent)



Trap Data (ST-II, Detail 2)

Sediment Trap 'A'
 Before Dev. D.A. = 0.00 A.C.T.
 After Dev. D.A. = 0.00 A.C.T.
 Storage Required = 2376 CF
 Storage Provided = 2722 CF
 Limit of Wet Storage = 374.10
 Weir Crest Elev. = 379.00
 Channel Depth = 1.0'
 Top of Dam Elev. = 376.00
 Bottom Elev. = 375.00
 Cleanout Elev. = 374.00
 Weir Length = 4'
 Outlet Elev. = 374.10

Sediment Trap 'B'
 Before Dev. D.A. = 0.25 A.C.T.
 After Dev. D.A. = 0.25 A.C.T.
 Storage Required = 700 CF
 Storage Provided = 1213 CF
 Limit of Wet Storage = 302.74
 Weir Crest Elev. = 305.00
 Channel Depth = 1.0'
 Top of Dam Elev. = 304.00
 Bottom Elev. = 302.00
 Cleanout Elev. = 302.30
 Weir Length = 4'
 Outlet Elev. = 302.74

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]
 Date: 4/15/97

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."

[Signature]
 Signature of Developer/Builder
 Date: 4.16.97

These plans have been reviewed for the Howard Soil Erosion and Sediment Control by the technical requirements.

[Signature] /cs 2/2/97
 Natural Resources Conservation Service Date

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

[Signature] 2/2/97
 H.S.C.D. Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 2/25/98
[Signature] 2/10/98
[Signature] 2/4/98

GW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 NO. VA: (202) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. MOD. CHK.

REVISION	DATE	BY	APPROVED

PREPARED FOR:
 JULIA BROWN MONTESSORI SCHOOL
 2760 OWEN BRD. #200
 COLUMBIA, MD. 21043
 (410) 730-5156

Sediment Control Plan
 The Julia Brown Montessori School
 Village of Oakland Mills
 Section 5 Area 2

SCALE	ZONING	G. L. W. FILE NO.
1"=20'	R-20	97037
DATE	TAX MAP No.	SHEET
Sept. '97	36	2 of 6

HOWARD COUNTY, MARYLAND

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 the ARC.

- 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 and over.
- 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 1/2" caliper, 14'-16" in height.
- d. Minimum size for planting minor or intermediate focus trees (pines, crabapples, etc.) shall be 3-3 1/2" 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	HEIGHT	SPREAD	SIZE OF BALL
3" - 3 1/2"	14'-16'	6'-8'	32" diameter
3 1/2" - 4"	14'-16'	8'-10'	36" diameter
4" - 4 1/2"	16'-18'	8'-10'	40" diameter
4 1/2" - 5"	16'-17'	10'-12'	44" diameter
5" - 5 1/2"	16'-20'	10'-12'	48" diameter
5 1/2" - 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 Standards".

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 authorities.

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.

2. Digging

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

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 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	ROOT BALL	PIT DIAMETER	PIT DEPTH
3" - 3 1/2" cal.	32"	64"	28"
3 1/2" - 4" cal.	36"	72"	32"
4" - 4 1/2" cal.	40"	80"	36"
4 1/2" - 5" cal.	44"	88"	40"
5" - 5 1/2" cal.	48"	96"	44"
5 1/2" - 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 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 5/16" turn buckles, eye and eye with 4" take-up. 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 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 dressing.
- 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 pockets.
- 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

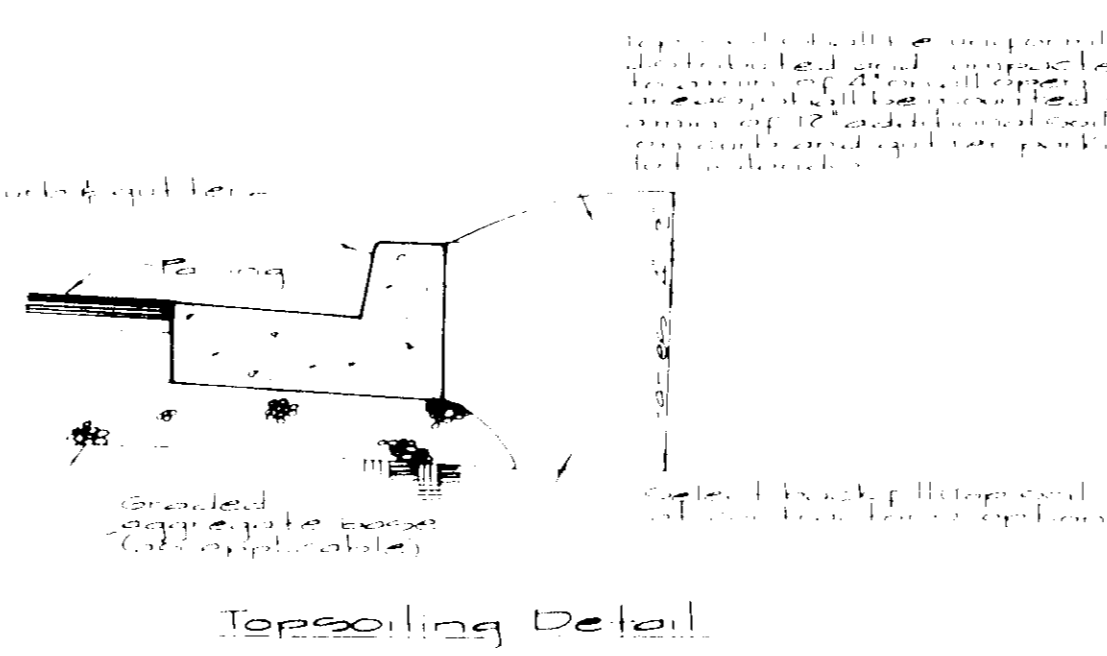
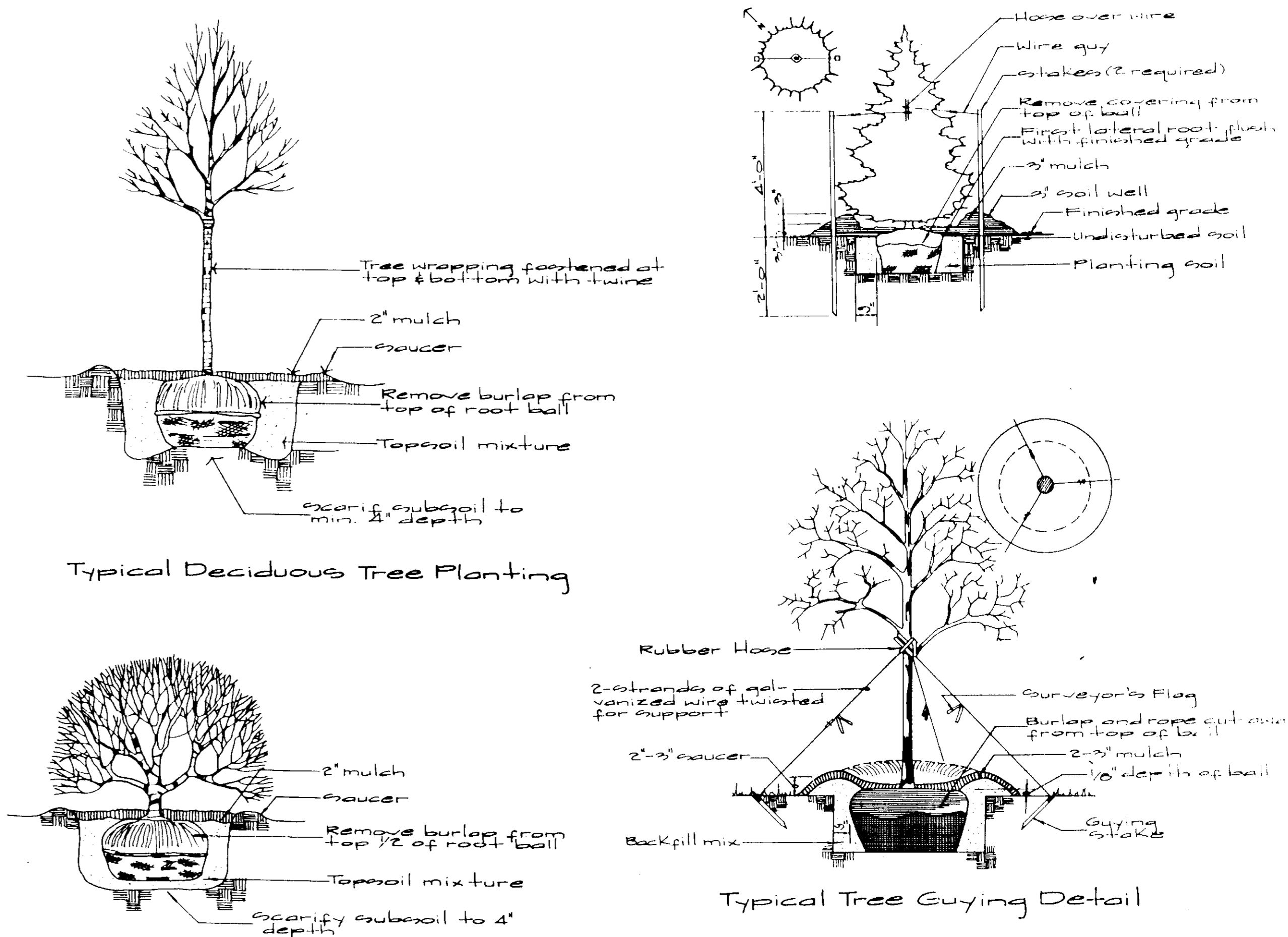
All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

- 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 season.
- 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.

Sodding

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

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 Escort.



Materials:
 This manual shall be in accordance with the following specifications: 1. Topsoil: Shall be a minimum of 6" deep, composed of a mixture of 50% topsoil and 50% compost. 2. Subsoil: Shall be a minimum of 6" deep, composed of a mixture of 50% subsoil and 50% compost. 3. Mulch: Shall be a minimum of 2" deep, composed of a mixture of 50% mulch and 50% compost. 4. 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. 5. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 5/16" turn buckles, eye and eye with 4" take-up. 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. 6. 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.

Approved Howard County Department of Planning & Zoning
 Director: *[Signature]* 2/25/08
 Chief of Land Development: *[Signature]* 2/19/08
 Chief Development Engineering: *[Signature]* 2/4/08

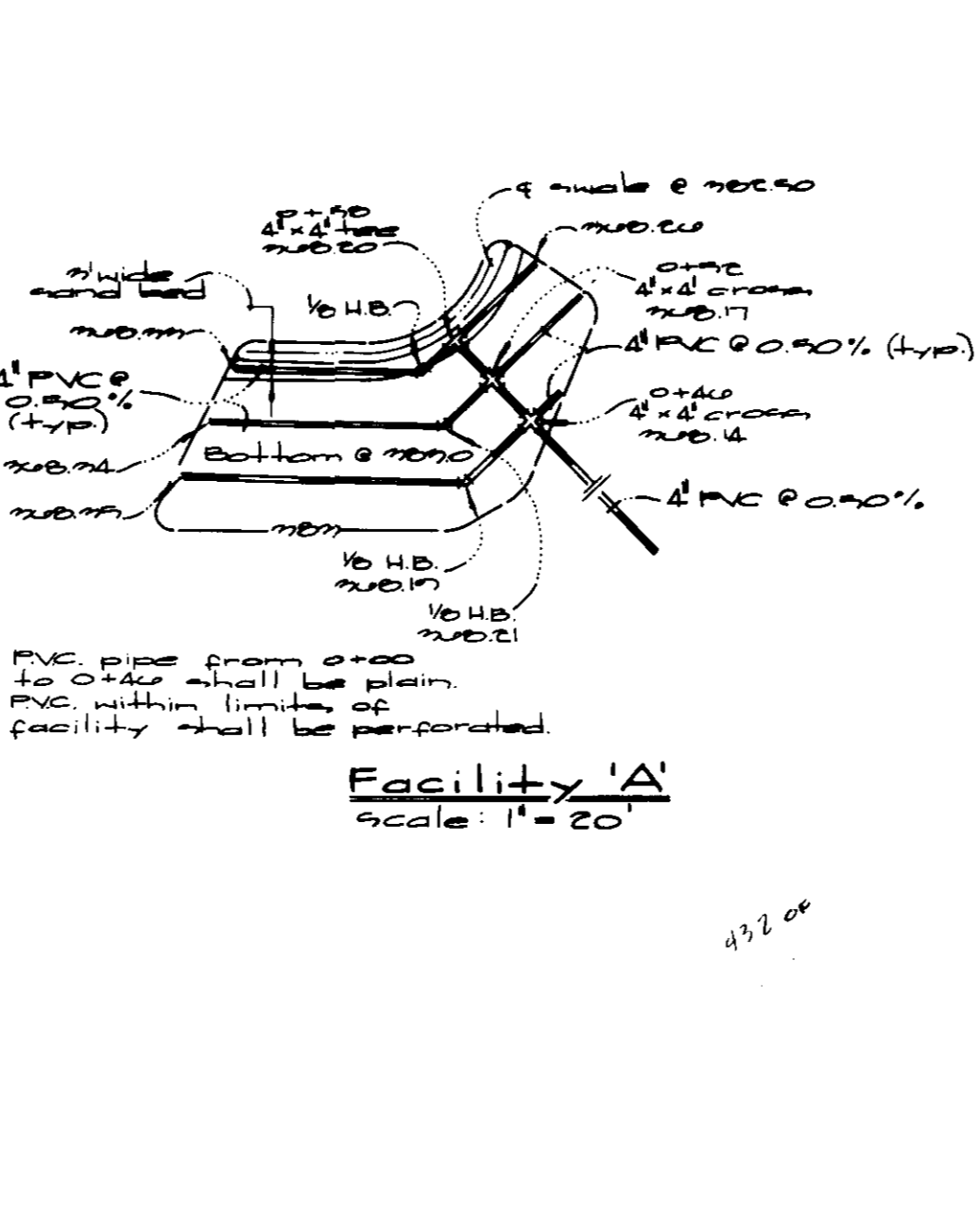
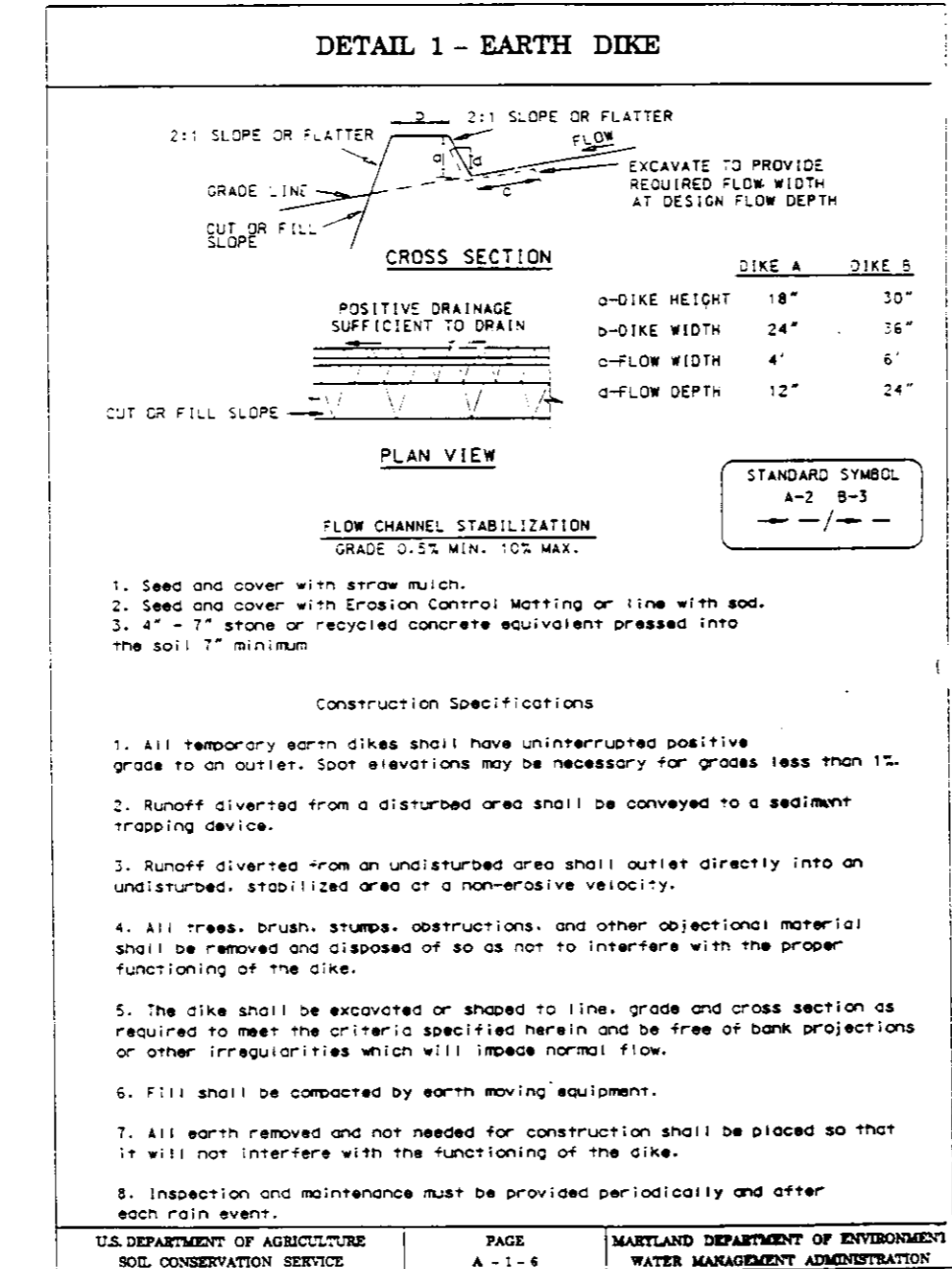
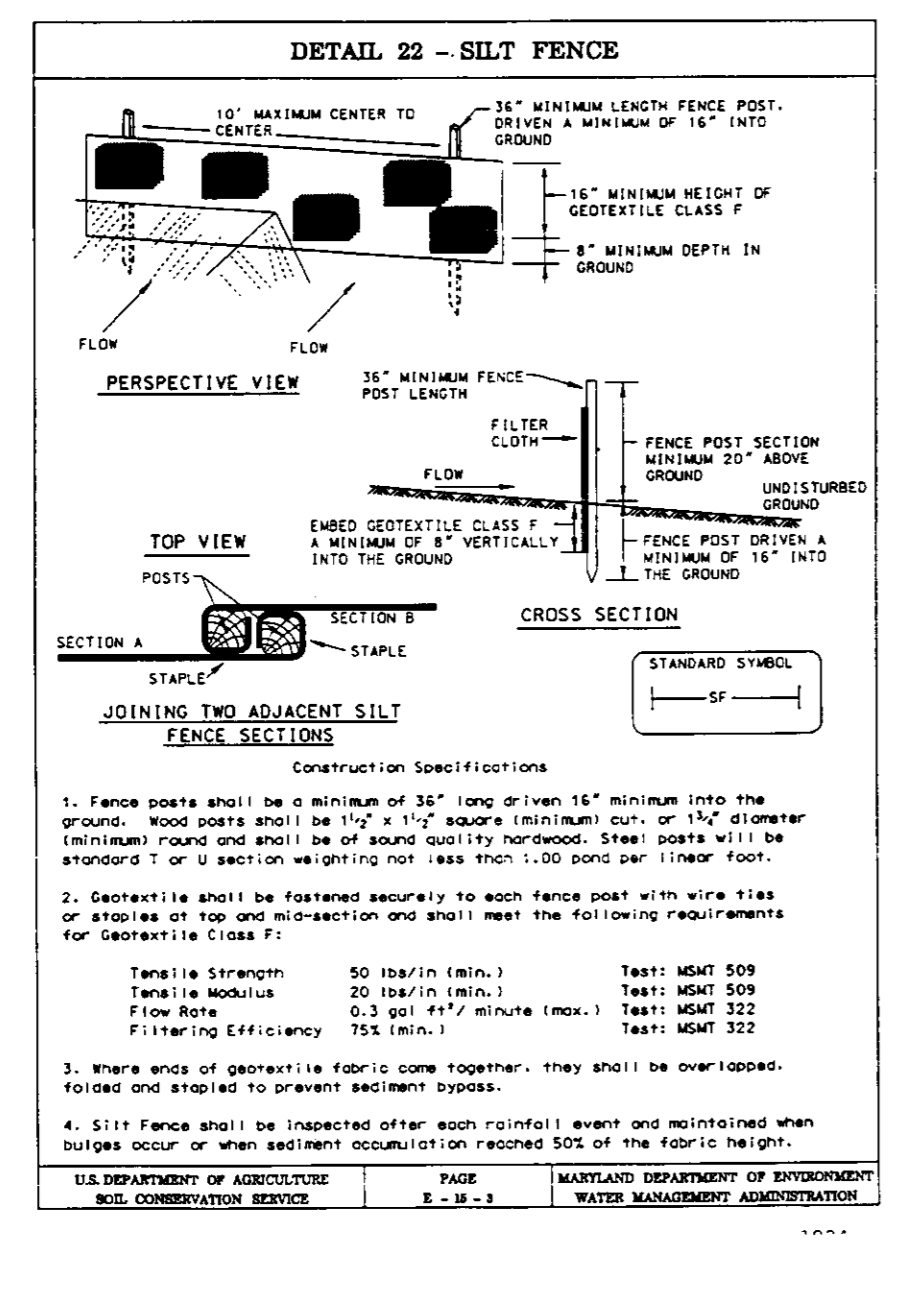
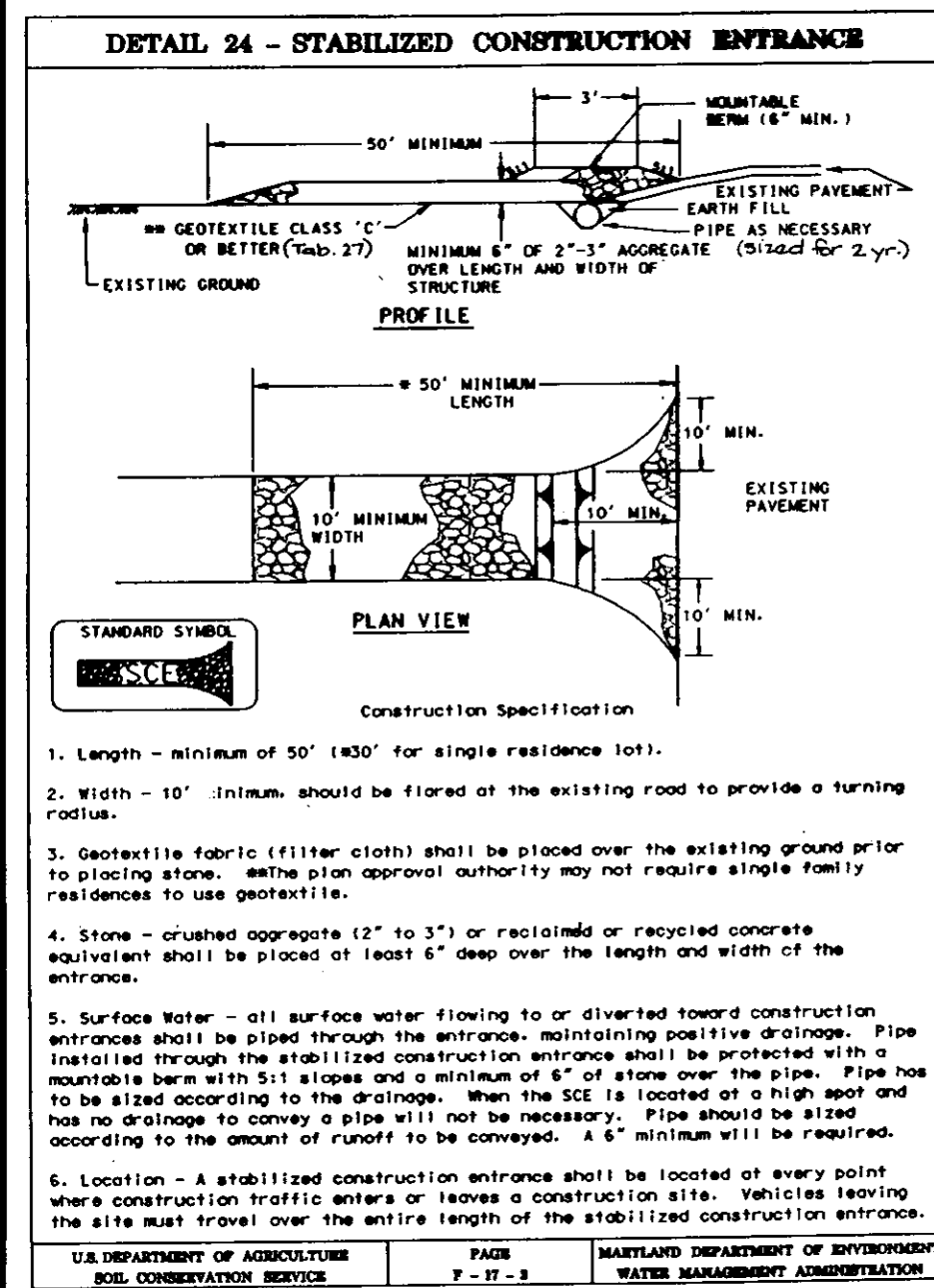
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
 TELEPHONE (301)421-4024 NO VA (301)989-2524 BAL TO (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP.

PREPARED FOR
 Julia Brown Montessori School
 2700 Owen Brown Road
 Columbia, Md 21043
 (410) 262-5056

Planting Notes & Details
 The Julia Brown Montessori School
 Village of Oakland Mills
 Section 5 Area 2
 Guilford Election District No. 6
 Howard County, Maryland

DES.	SCALE	ZONING	GL.W. FILE NO.
	As Shown	R-20	77097
DRN.	DATE	TAX MAP No.	SHEET
	Sept. '07	36	5 of 6



SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (40) 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. 1, 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 seeding, sod, temporary seeding, and mulching. (Sec G) Temporary stabilization, with mulch alone, shall 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.
- Site Analysis:
Total Area of Site : 1.96 Acres
Area Disturbed : 1.21 Acres
Area to be roofed or paved : 0.28 Acres
Area to be vegetatively stabilized : 0.77 Acres
Total Cut : 0.12 Cu. Yds.
Total Fill : 0.12 Cu. Yds.
Off-site waste/borrow area location:
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back filled and stabilized within one working day, whichever is shorter.

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, if not previously loosened.
- Soil Amendments: In lieu of soil test recommendations, use one of the following schedules
- Preferred - Apply 2 tons per acre dolomitic limestone (92 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 (9 lbs/1000 sq ft).
 - 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 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

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

TEMPORARY SEEDING NOTES

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

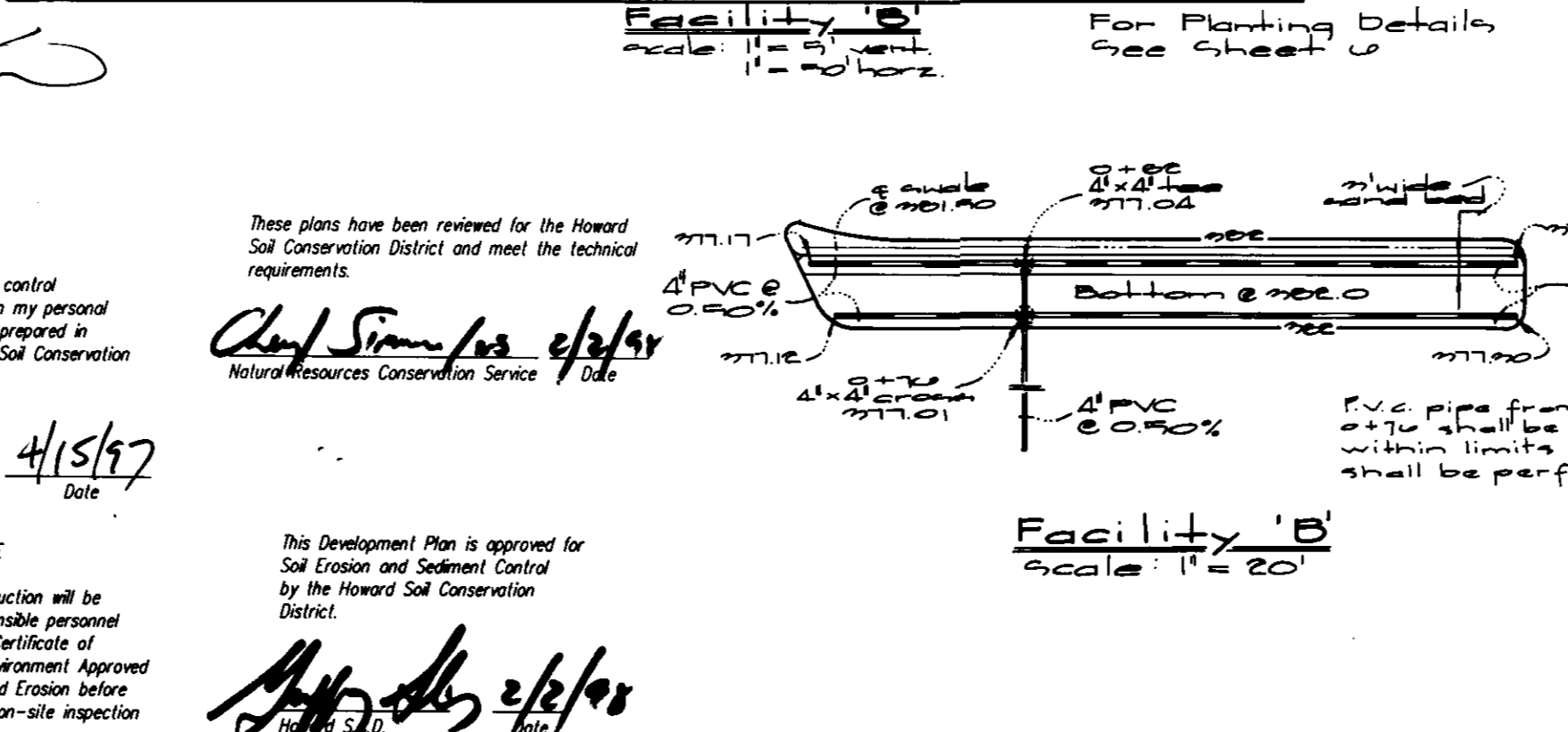
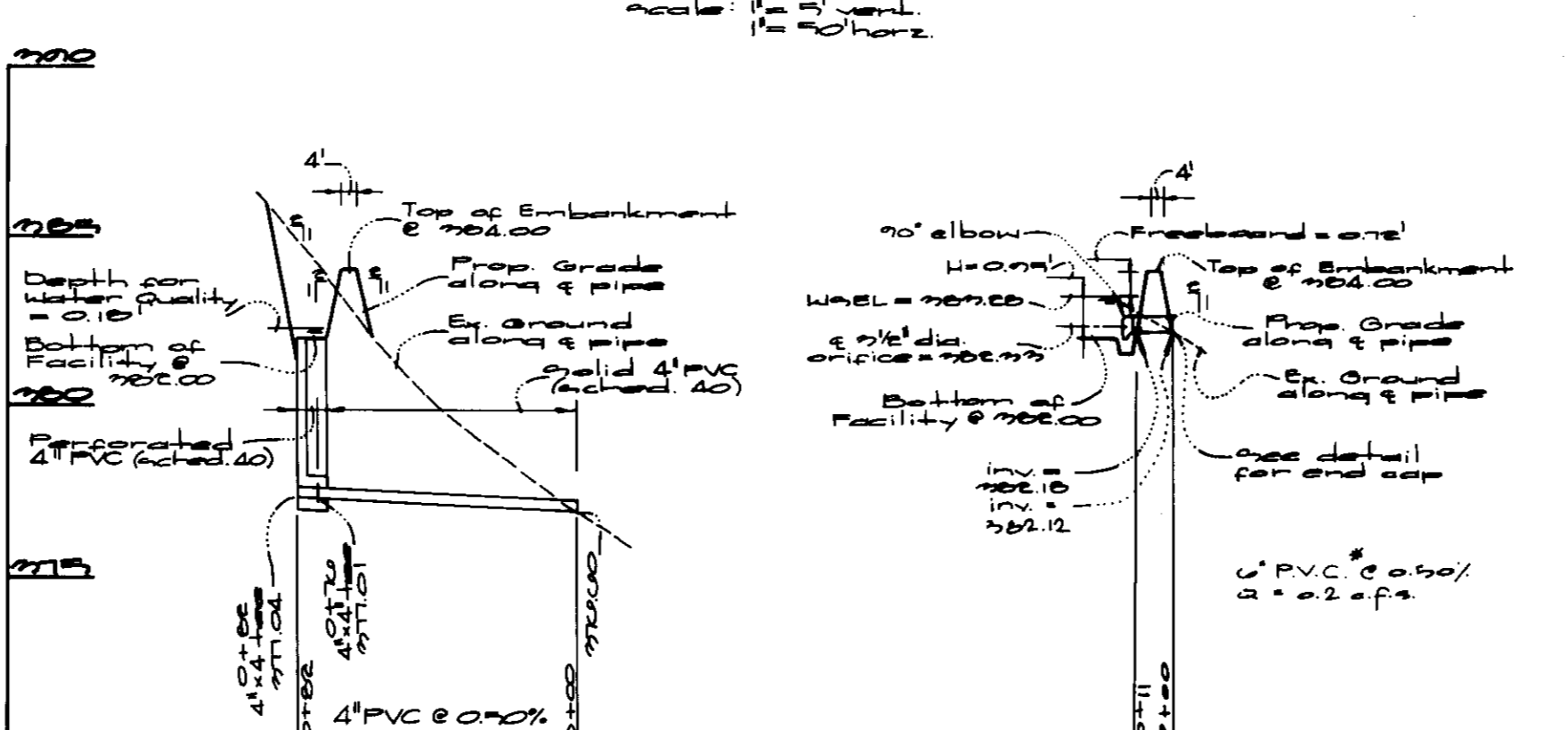
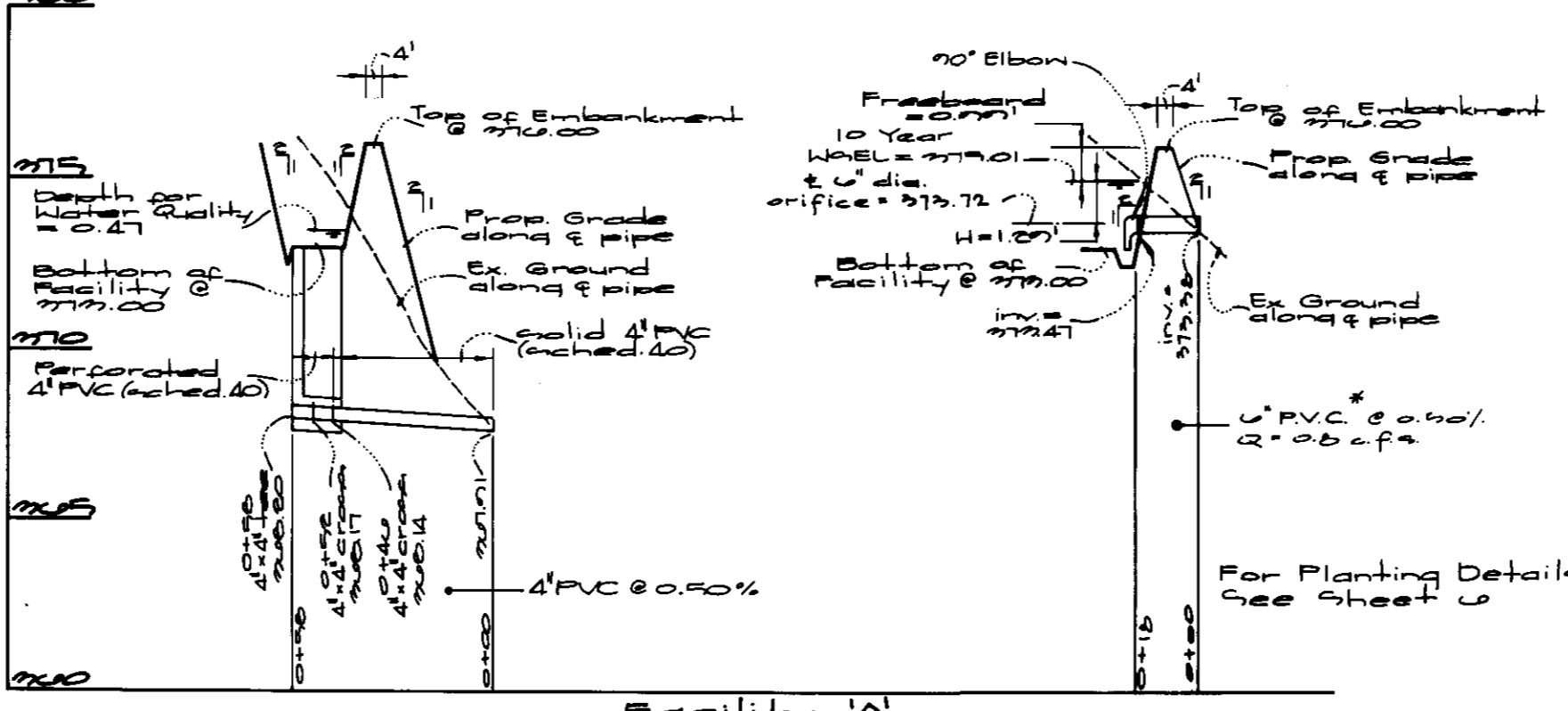
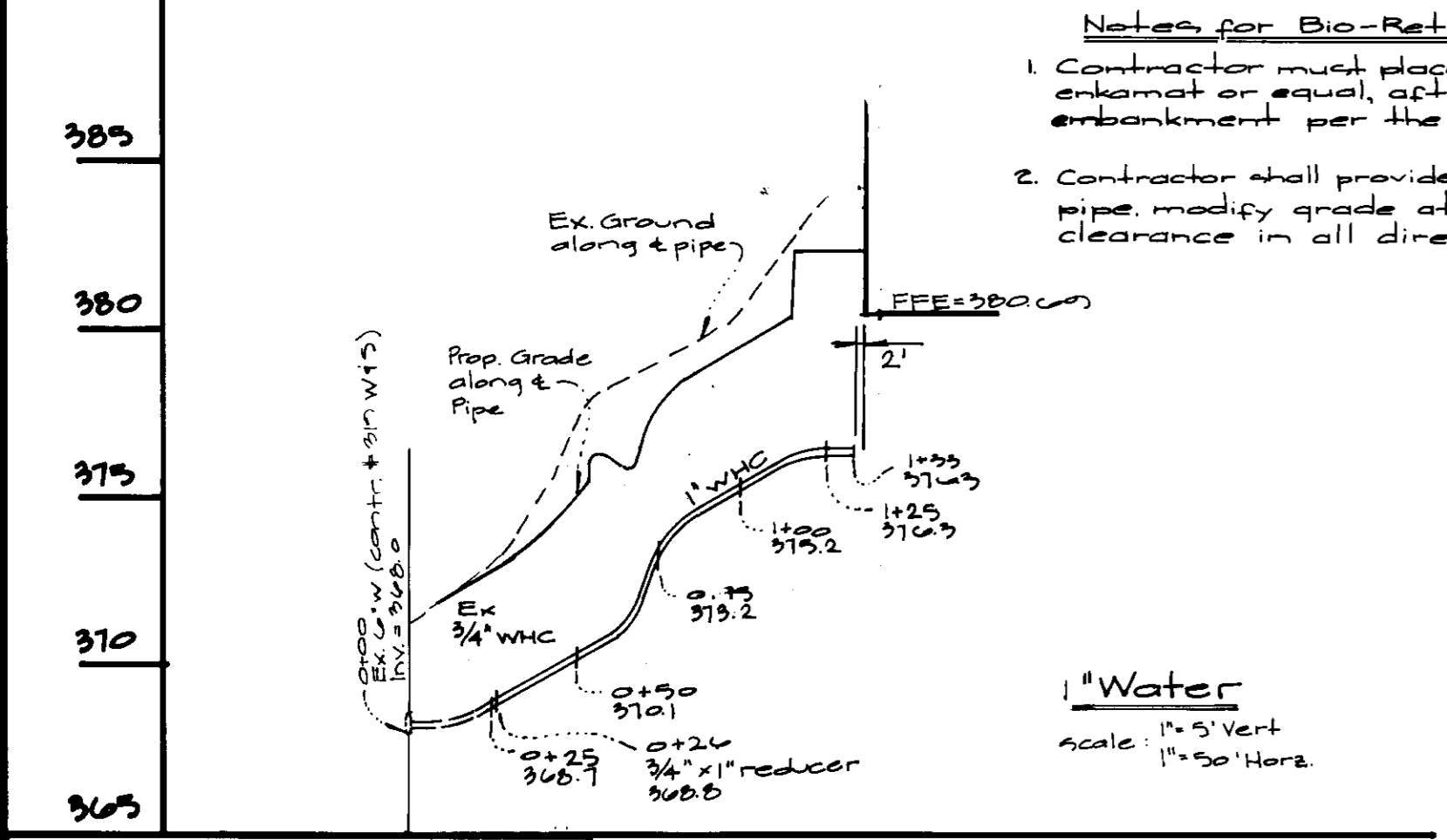
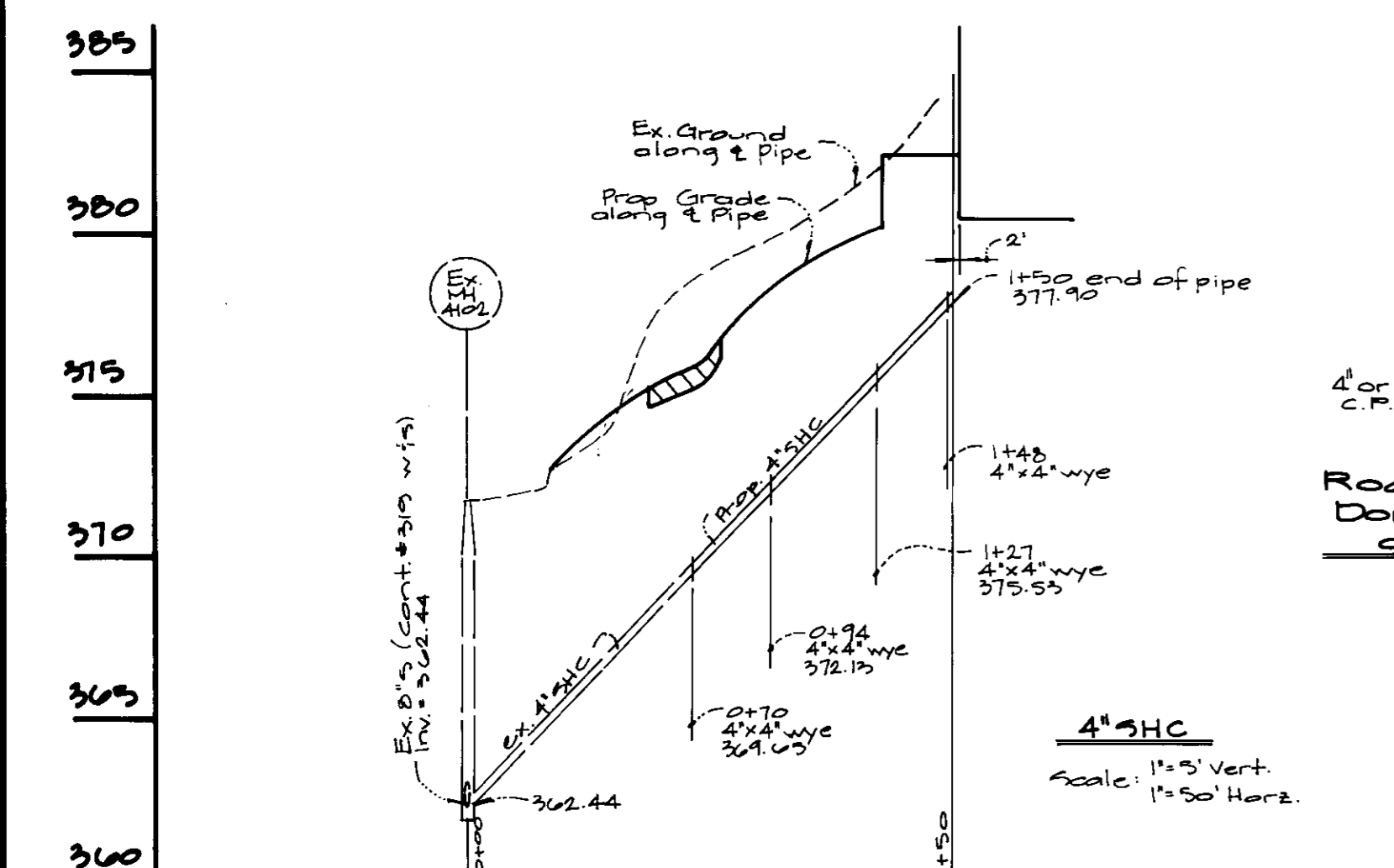
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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

Seeding: For periods March 1 thru April 30 and from August 15 thru 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.



Pipe Schedule		
size & type	class	qty.
4" P.V.C. Plain	sched 40	27
4" P.V.C. Perforated	sched 40	210
4" P.V.C. Plain	sched 40	122

APPROVED: FOR PUBLIC WATER & SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

County Health Officer _____ Date _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date 2/25/98

Chief, Division of Land Development _____ Date 2/15/98

Chief, Development Engineering Division _____ Date 2/16/98

ENGINEER'S CERTIFICATE

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

Date 4/15/97

DEVELOPER/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.

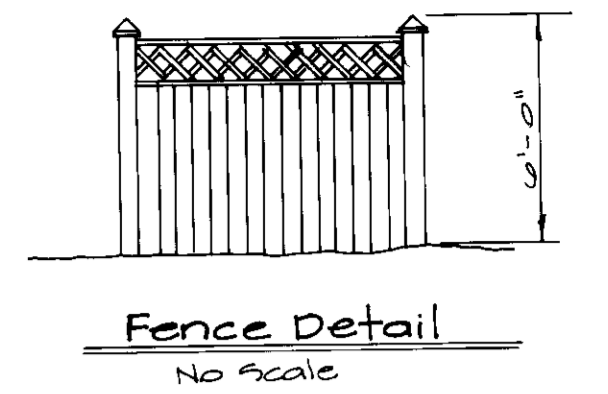
Date 2/16/98

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20886
TEL: (301) 421-4024 MO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK. DATE REVISION BY APPR.

PREPARED FOR:
Julia Brown Montessori School
7760 Owen Brown Road
Columbia, Md 21045
(410) 760-2000

Sediment Control Notes, Details & Profiles
The Julia Brown Montessori School
Village of Oakland Mills
Section 5 Area 2
Guilford Election District No. 6
Howard County, Maryland

SCALE	ZONING	G. L. W. FILE No.
as shown	R-60	07037
DATE	TAX MAP No.	SHEET
September 1997	20	4 of 6



Schedule A
Perimeter Landscape edge

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	B	E
Linear Feet of Roadway Frontage/Perimeter	135'	105'
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	Yes - 170' ex. trees	No
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	No	Yes - High Berm
Number of Plants Required Shade Trees Evergreen Trees Shrubs	4/5 LF 1 2 (4-EST) 0	105 LF 3 0 (berm) 0
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed.)	4 0 2 ornamental 14	4 over 3 0 1 0

* EST = Equivalent Shade Tree

Schedule B
Residential Development Internal Landscaping

Number of parking spaces	18
Number of Trees Required (1 per 10 spaces)	2
Number of Trees Provided Shade Trees Other Trees (2:1 substitution)	2

Schedule D
Stormwater Management Area Landscaping

Linear Feet of Perimeter	250 LF to be planted
Number of Trees Required Shade Trees (1:50) Evergreen Trees (1:40)	5 6 (=5 EST) ①
Credit for Existing Vegetation (No, Yes and %)	Yes, 100% for 150 LF
Credit for Other Landscaping (No, Yes and %)	Yes, by 10' buffer edge
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	5 6 ①

① An bio-retention facilities, these ponds are vegetated therefore, three of the evergreen trees for the back facility are transferred to the 170 LF type C edge in the SW corner.

Landscape Surety Calculation

Req. by Sched. A: 13 EST
Req. by Sched. B: 2
Req. by Sched. D: 8 EST

30 Evergreen shrubs per D10 #5

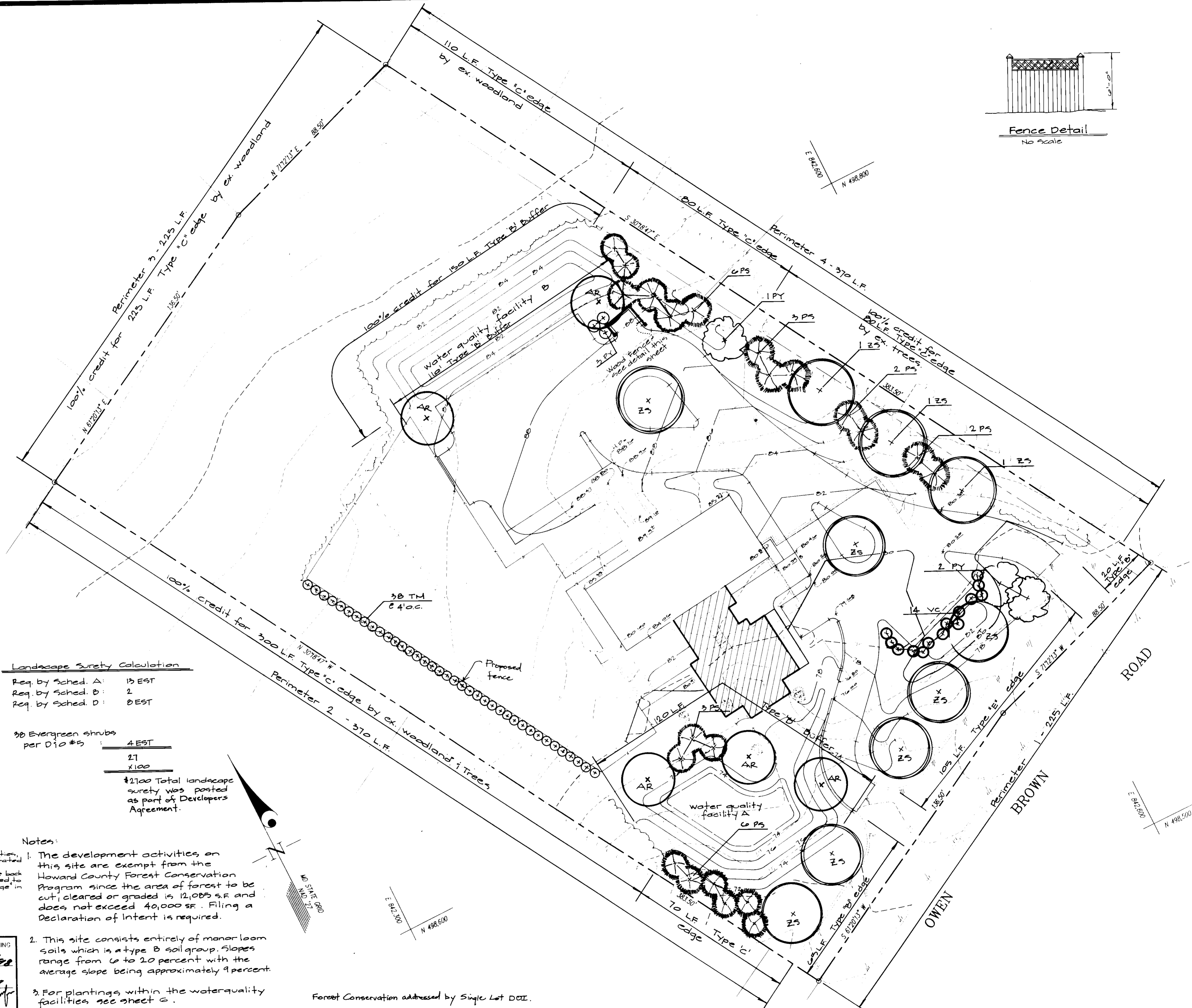
4 EST
27
x100

\$2700 Total landscape surety was posted as part of Developers Agreement.

Notes:

- The development activities on this site are exempt from the Howard County Forest Conservation Program since the area of forest to be cut, cleared or graded is 12,000 SF and does not exceed 40,000 SF. Filing a Declaration of Intent is required.
- This site consists entirely of moner loam soils which is a type B soil group. Slopes range from 6 to 20 percent with the average slope being approximately 9 percent.
- For plantings within the water quality facilities see sheet G.

Forest Conservation addressed by Single Lot DEC.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Janet Kuster 2/25/98
Candy Hamilton 2/18/98
Michael... 2/18/98

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186 DES. DRN:mcf CHK.

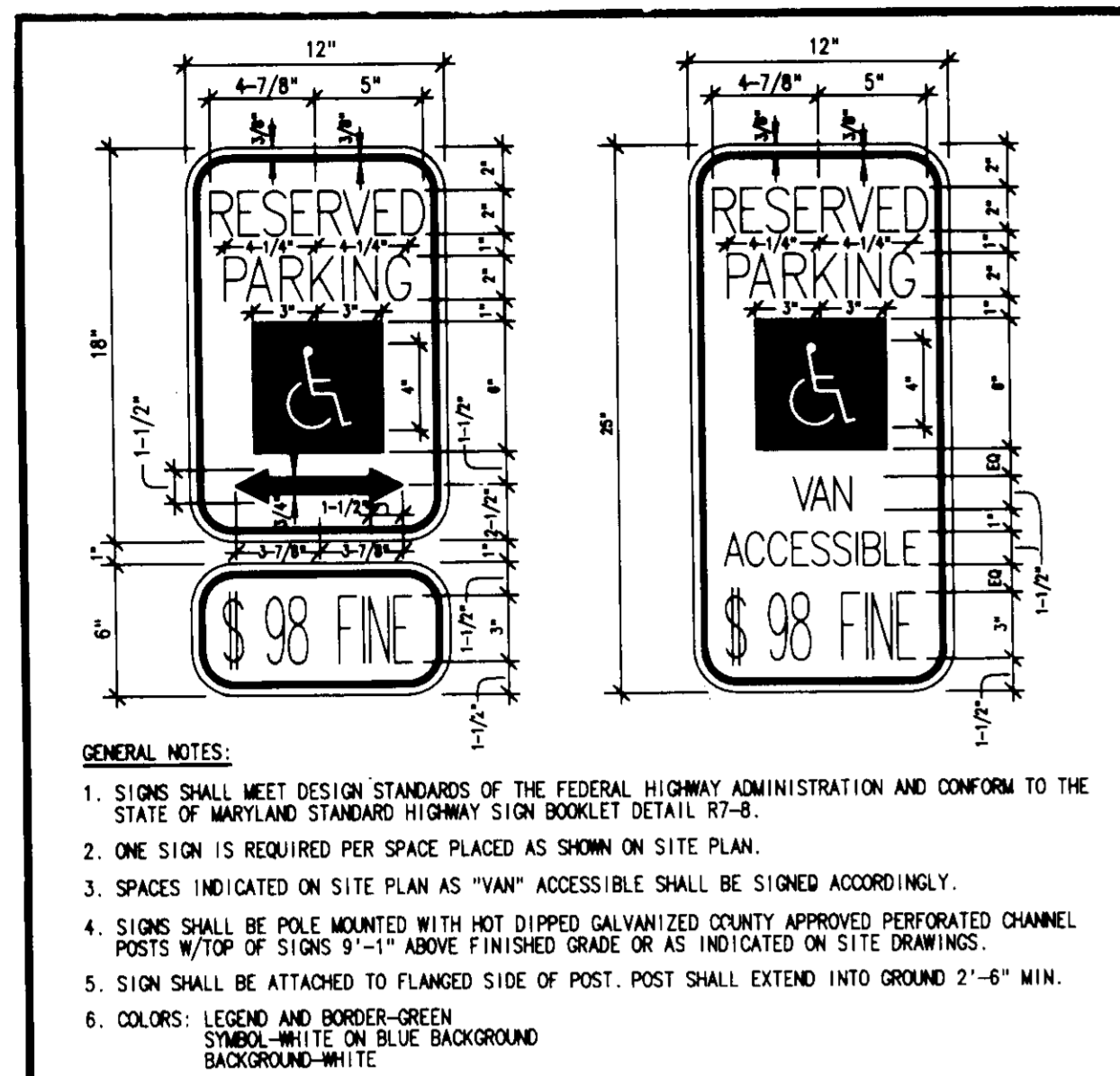
PREPARED FOR:
JULIA BROWN MONTESSORI SCHOOL
9780 OWEN BROWN ROAD
COLUMBIA, MD 21043
(410) 730-5056

Landscaping Plan

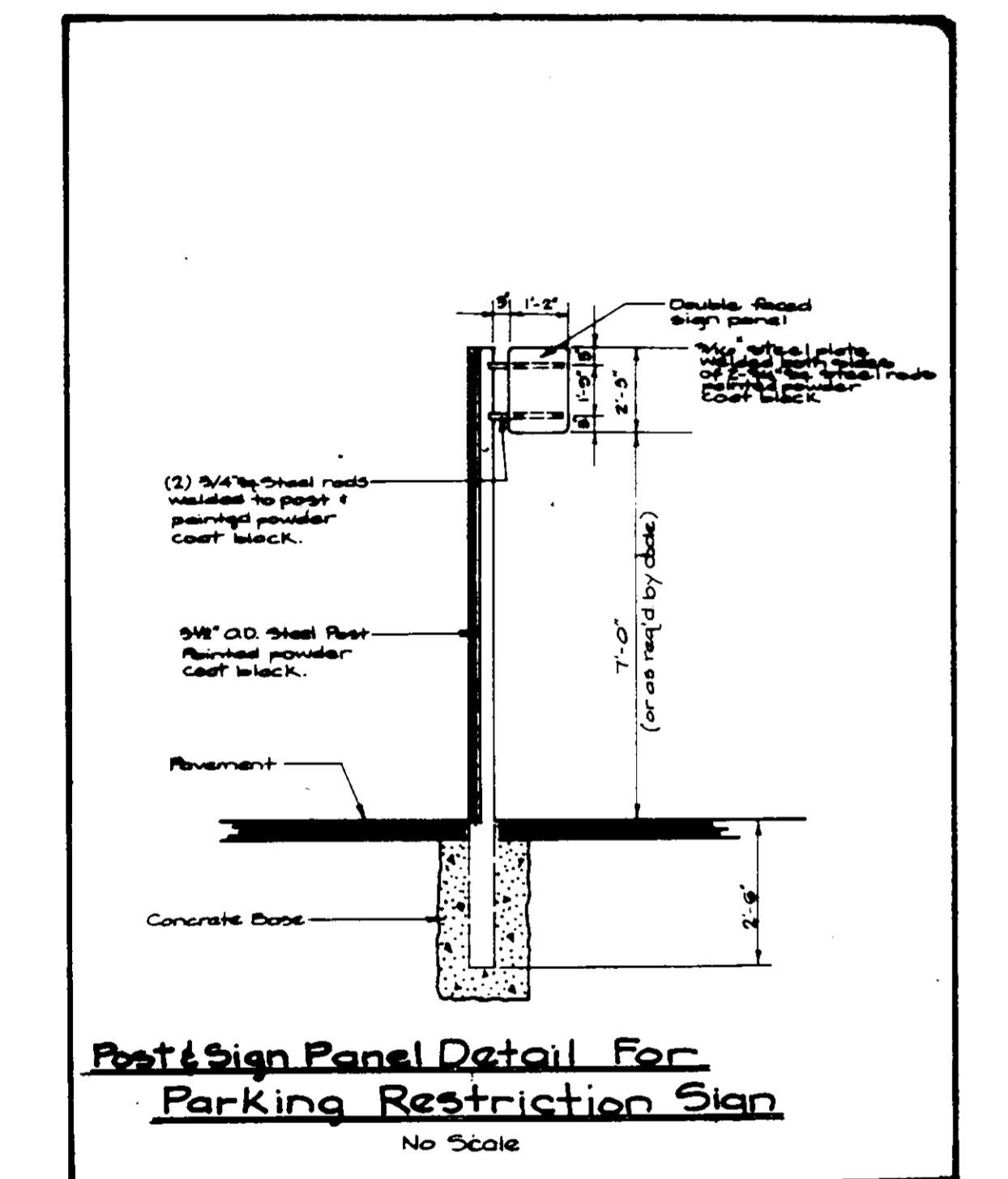
The Julia Brown Montessori School
Village of Oakland Mills
Section 5 Area 2

SCALE 1"=20'	ZONING R-20	G. L. W. FILE No. 97037
DATE Sept, '97	TAX MAP No. 36	SHEET 3 of 6

HOWARD COUNTY, MARYLAND



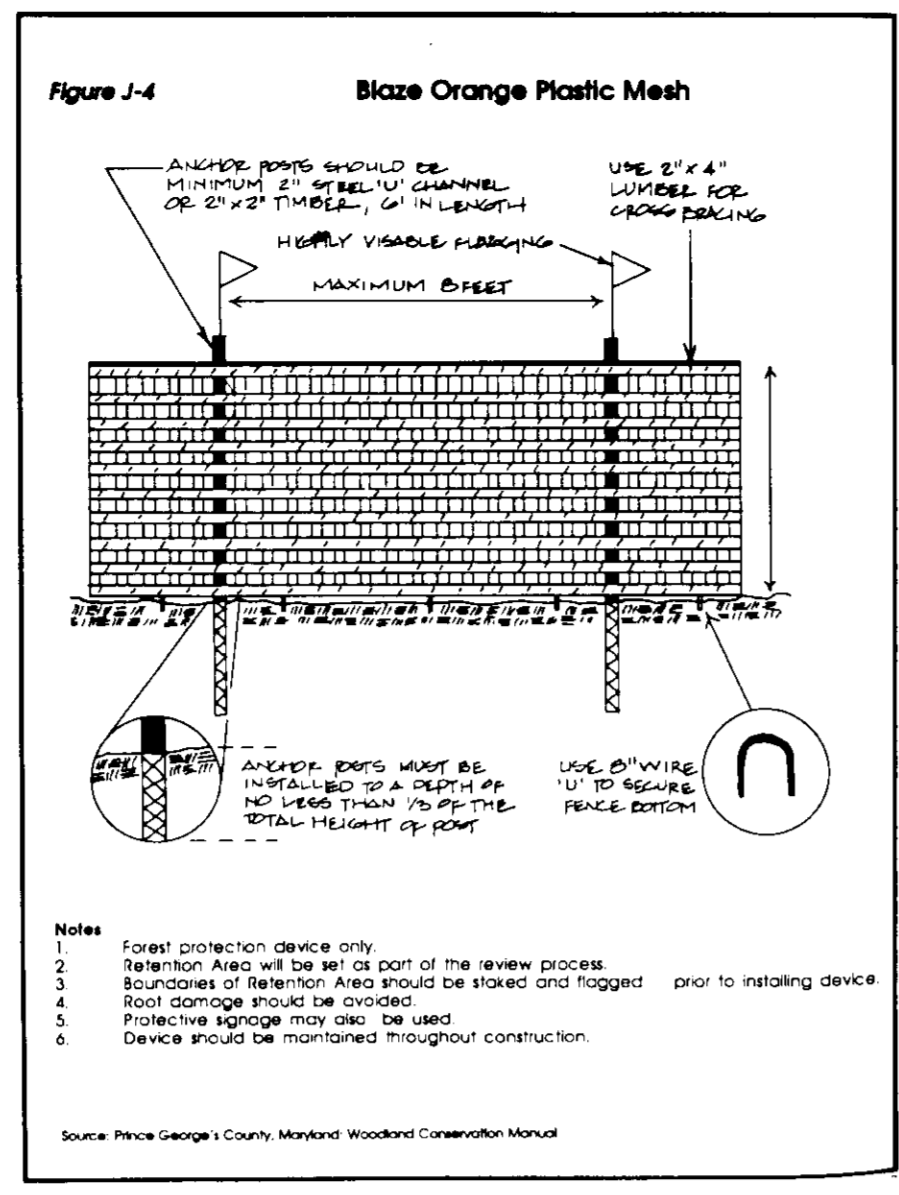
HANDICAP PARKING SIGNS DETAIL



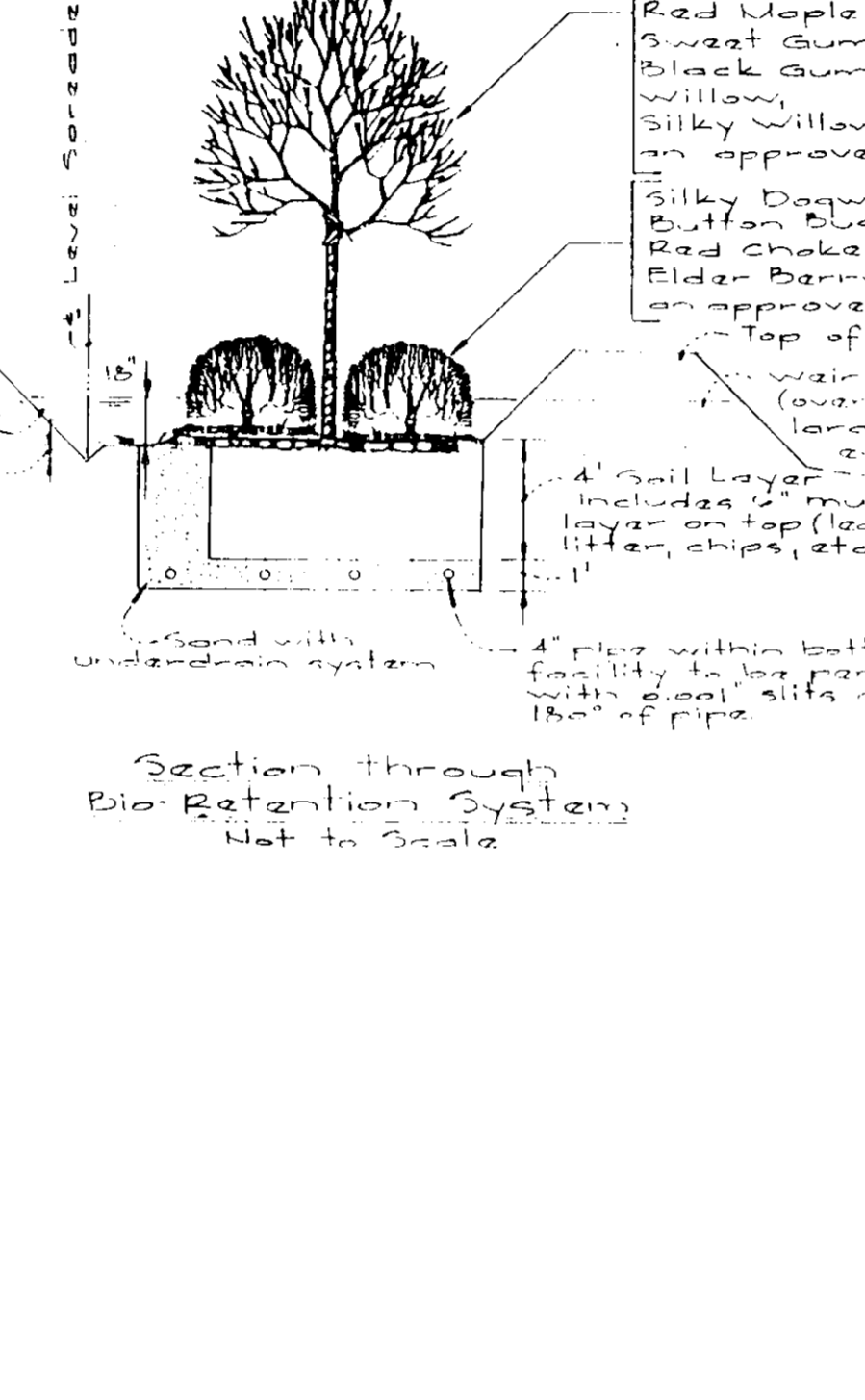
DEVELOPER'S/BUILDER'S CERTIFICATE

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.

[Signature] 4.16.91
Signature of Developer/Builder Date



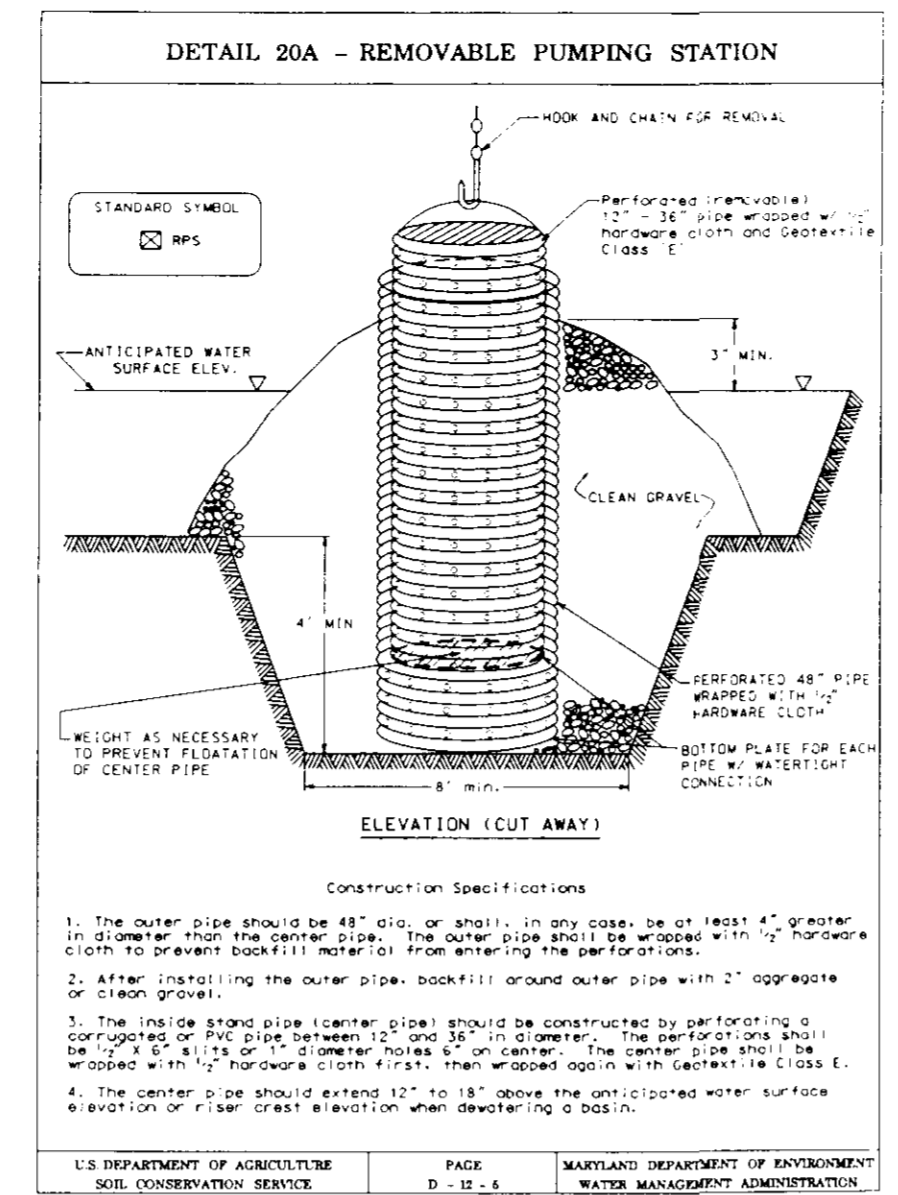
Blaze Orange Plastic Mesh



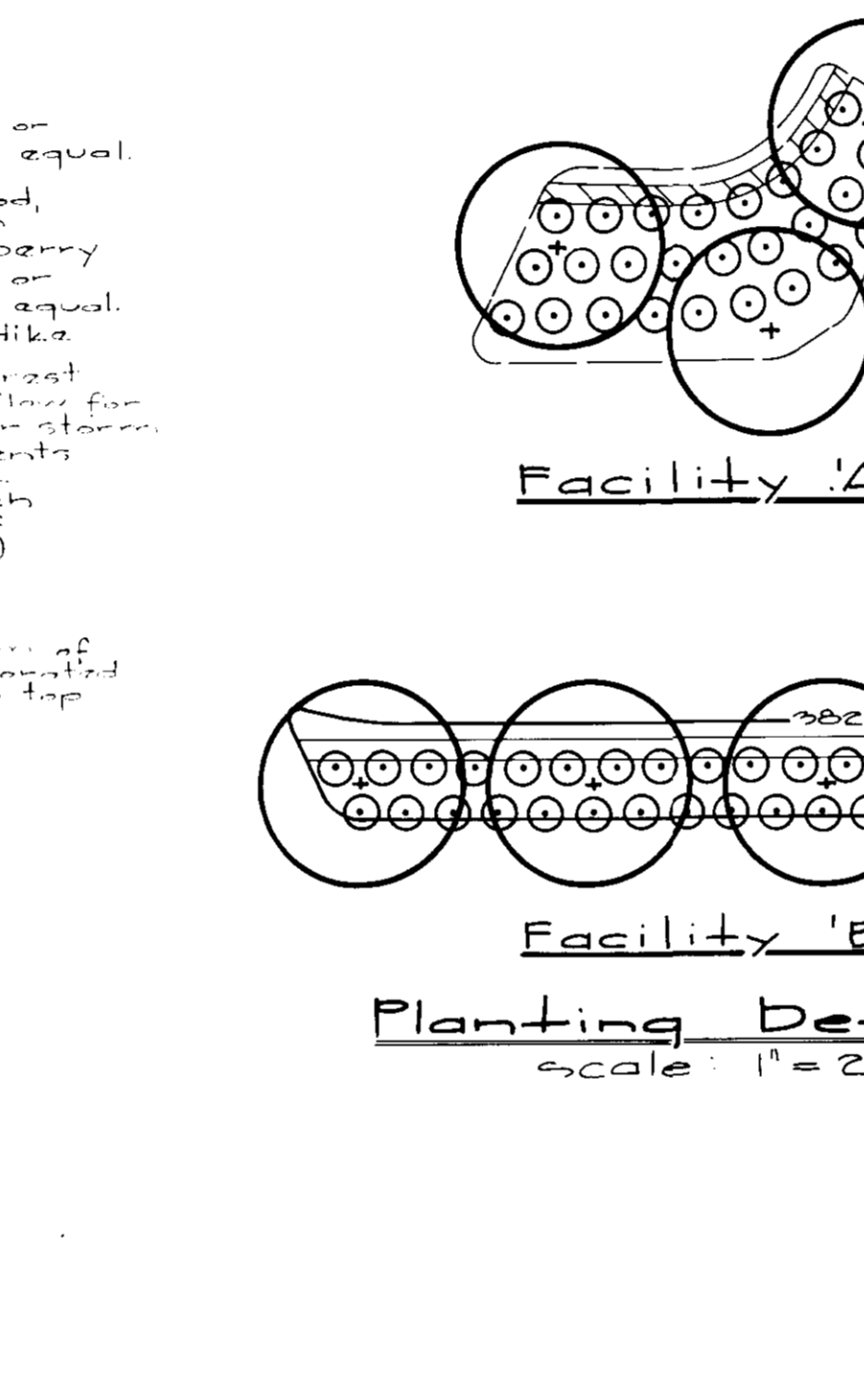
ENGINEER'S CERTIFICATE

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] 1-22-98
Date



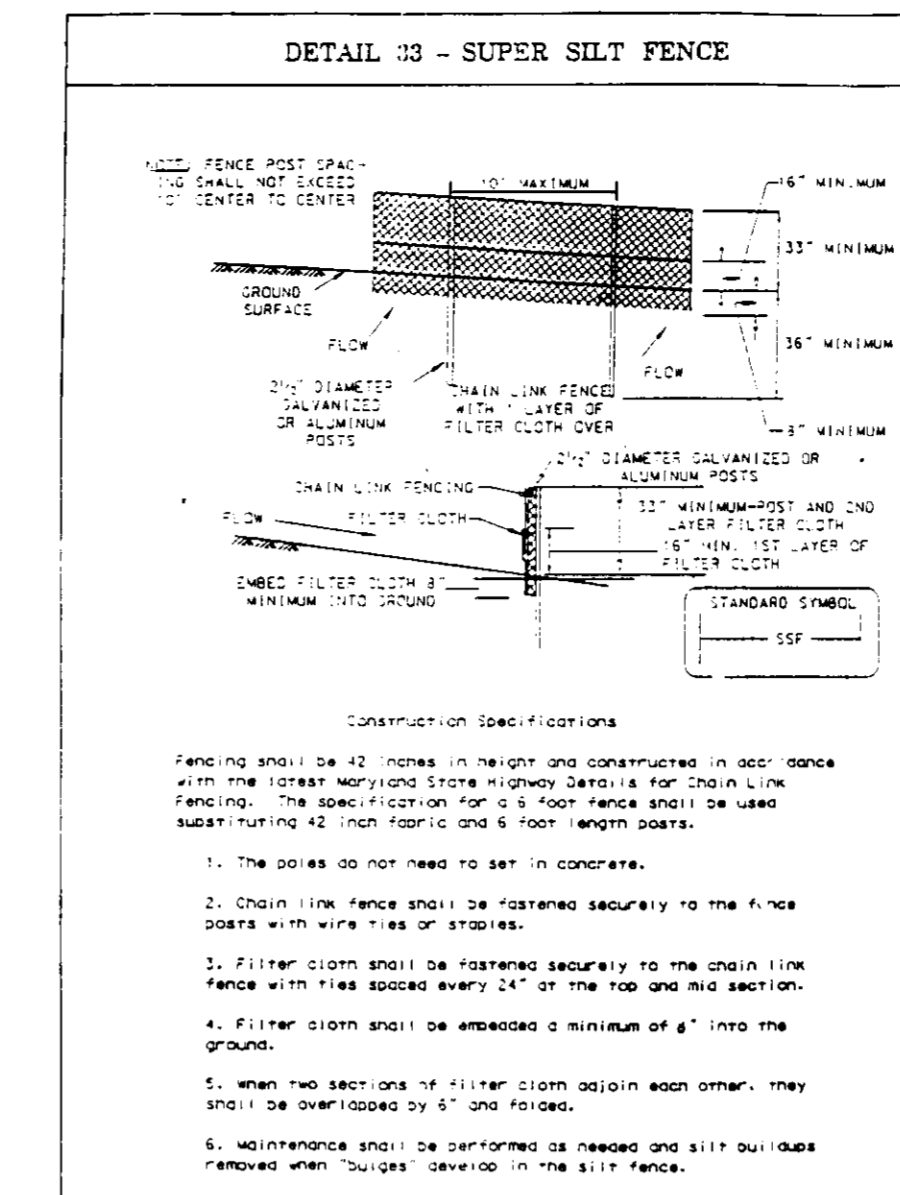
DETAIL 20A - REMOVABLE PUMPING STATION



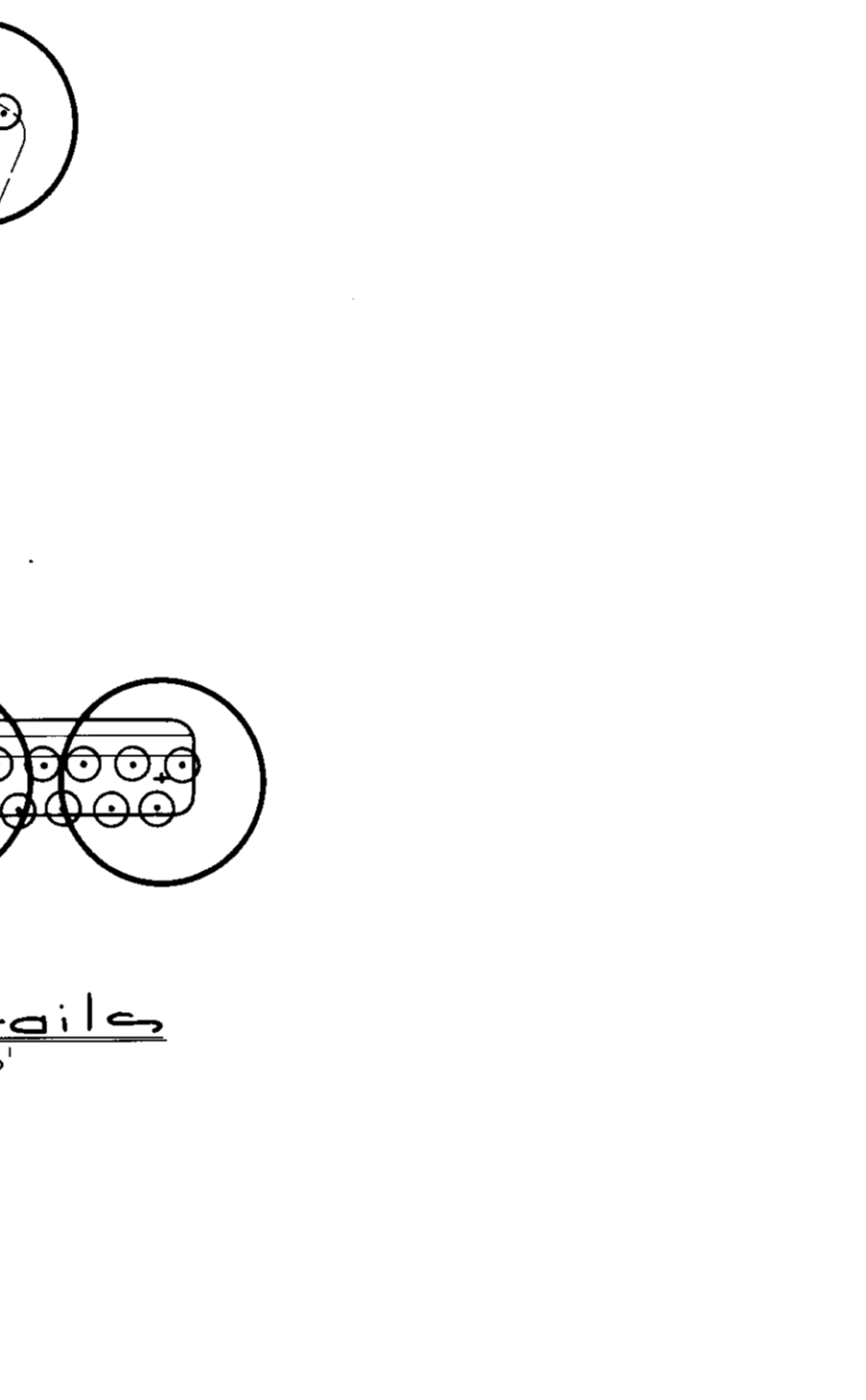
DEVELOPER'S/BUILDER'S CERTIFICATE

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.

[Signature] 4.16.91
Signature of Developer/Builder Date



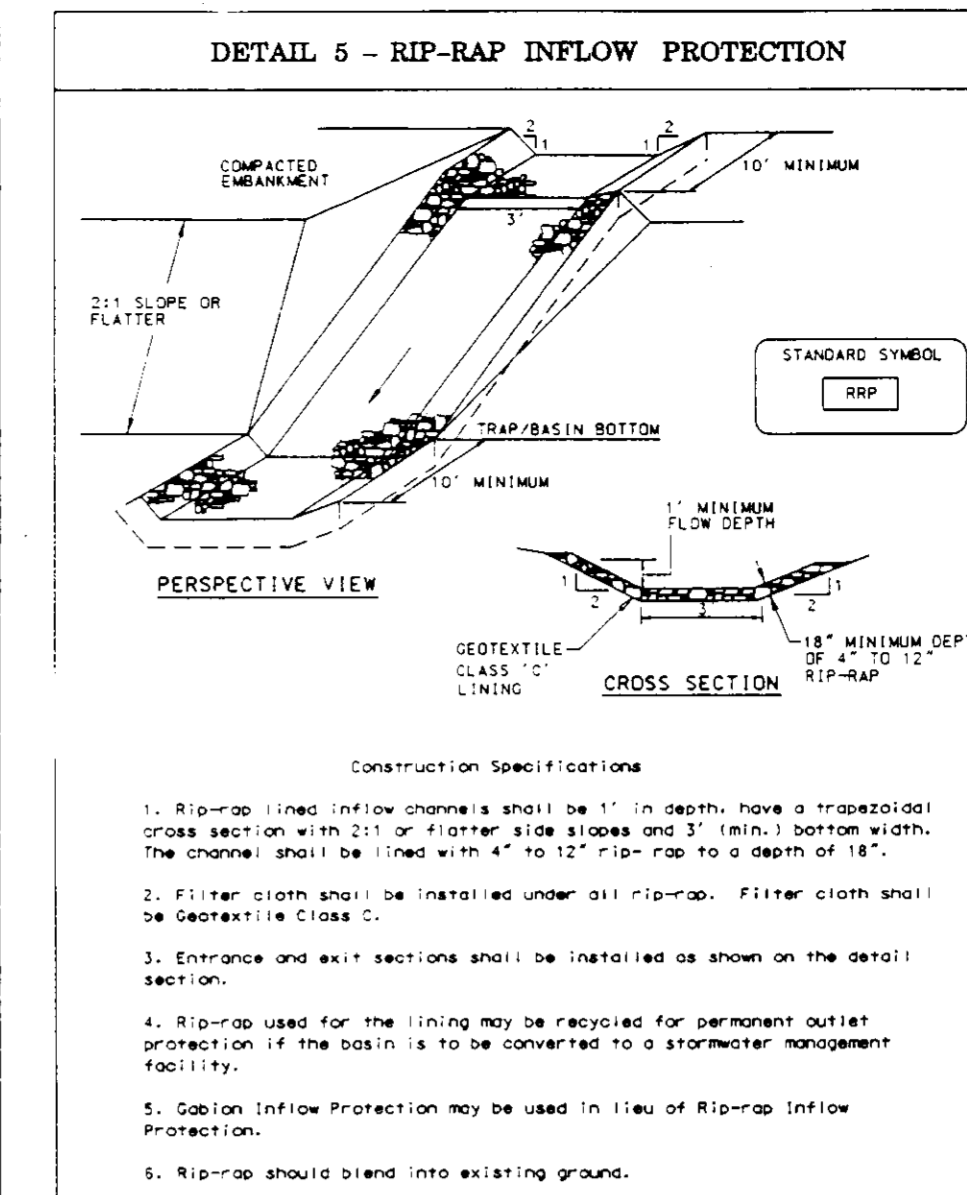
DETAIL 03 - SUPER SILT FENCE



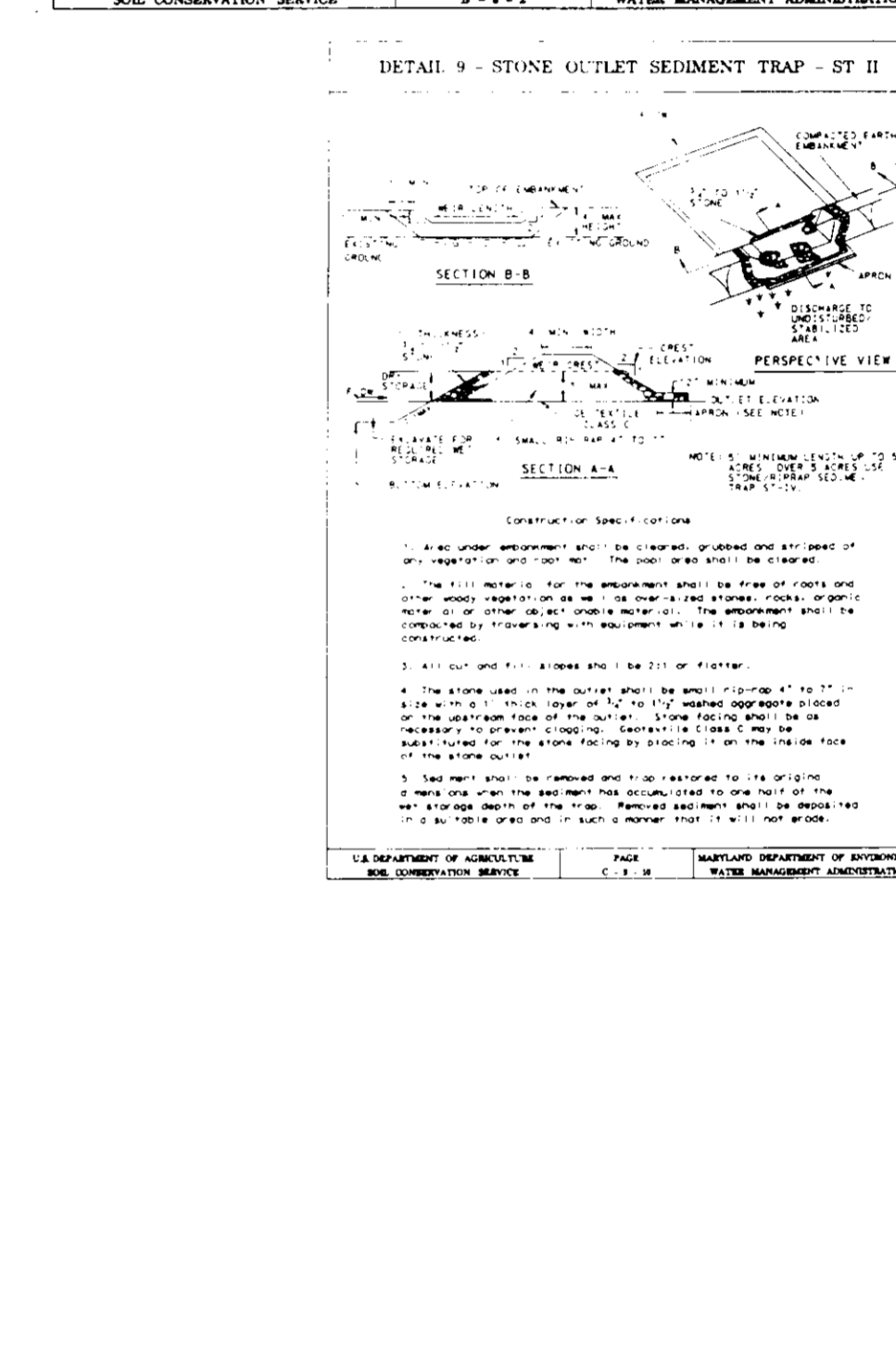
DEVELOPER'S/BUILDER'S CERTIFICATE

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.

[Signature] 4.16.91
Signature of Developer/Builder Date



DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II



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.

[Signature] 4.16.91
Signature of Developer/Builder Date

21.0 STANDARD AND SPECIFICATIONS

FOR TOPSOIL

Definition

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

Purpose

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

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

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 representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting 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.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutcase, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- Topsoil Application
 - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
 - 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 topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

21.0 STANDARD AND SPECIFICATIONS

GW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20866
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
JULIA BROWN MONTESSORI SCHOOL
9780 OWEN BROWN ROAD
COLUMBIA, MD 21043
(410) 730-5056

Notes and Details
The Julia Brown Montessori School
Village of Oakland Mills
Section 5 Area 2

DES.:	SCALE	ZONING	G.L.W. FILE NO.
	As Shown	R-20	97037
DRN.:	DATE	TAX MAP NO.	SHEET
	September 1997	30	06 of 0
CHK.:			