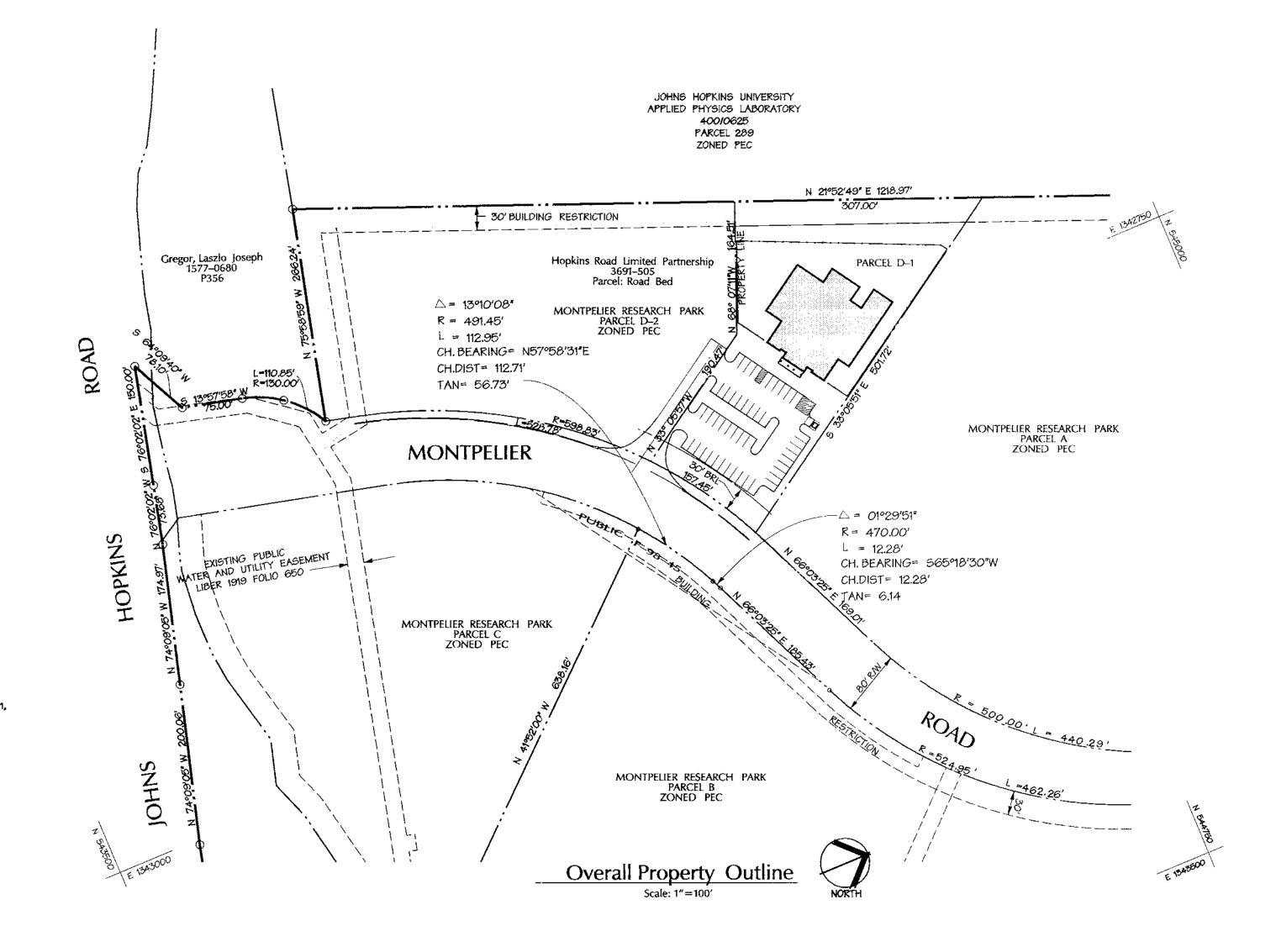
#### SHEET INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	SEDIMENT& EROSION CONTROL PLAN AND DRAINAGE AREA MAP
4	SEDIMENT & EROSION DETAILS
5	UTILITY PROFILES
6	LANDSCAPE PLAN
7	SITE & LANDSCAPE DETAILS

#### GENERAL NOTES

- 1. All construction shall be performed in accordance with the latest standards and specifications of Howard County, plus MSHA standards and specifications if applicable or as specified.
- 2. Approximate location of existing utilities are based solely on available records. Contractor shall verify the location of any utilities which may be impacted by the work. The contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to contractors operation shall be repaired immediately at the contractor's expense.
- 3. The contractor shall test pit existing utilities at least five (5) days before starting work shown on these drawings to verify their location and elevation. The contractor shall notify the engineer immediately if location of utilities is other than shown.
- 4. The contractor shall notify 'Miss Utility' at 1-800-257-7777 at least 48 hours prior to any excavation work being done, and shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- 5. Any damage caused by the Contractor to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be repaired at the Contactors expense.
- 6. Topo taken from mass grading per SDP 98-11(revised) dated April 9, 1998 by Daft McCune Walker, Inc.
- 7.Public water and sewer provided by contract No. 34-3654-D
- 8. All fill areas shall be compacted to a minimum of 95% of the maximum dry density as determined and verified in accordance with AASHTO T-180.
- 9. Regional stormwater management and water quality are provided in a retention facility located on Parcel F; plans were approved per SDP 98-11.
- 10. Forest Conservation requirements are provided per SDP98-11, F98-45 and SDP98-137.
- 11. There are no wetlands, floodplain, or streams on this site.
- 12. Traffic Study by Lee Cunningham and Associates was previously approved for this use per F98-45. Date: December 1997. See update provided with this submission
- 13. Operating existing valves, switches, services or start up of new services shall be coordinated with the owners representative.
- 14. The building will be provided with a sprinkler system.
- 15. Trench compaction for storm drains shall be in accordance with
- Howard County Design Manual IV, Std. No. G-2.01.
- 16. Unless otherwise noted, dimensions from curb are measured at face of curb.
- 17. Refer to architectural drawings for building dimensions.
- 18. The Contractor shall coordinate the location of all water, sewer, and drain house connections with the mechanical
- 19. The Contractor shall maintain 2.0 feet minimum cover over all utilities during construction.
- 20. Unless otherwise noted, all utility connections shall be capped or plugged five feet from buildings.
- 21. Electric, telephone, gas, cable, lighting, and retaining walls to be designed by others. Where those facilities are shown, they are for coordination purposes only.
- 22. All Curb radii 5' unless otherwise noted.
- 23. There are no known cemeteries or burial grounds on this site. However, upon discovery of any evidence of burial or graves, the developer will be subject to Section 16.1305 of the Howard County Subdivision and Land Development Regulations.
- 24. All exterior lighting fixtures shall be installed in compliance with Section 134 of the Zoning Regulations. 25. Geotechnical investigation by Giles Engineering Associates, Inc. Dated 4/29/99.

# Site Development Plan Childrens Discovery Center Montpelier Resarch Park-Parcel D-1



#### SITE ANALYSIS DATA CHART

- 1. General Site Data
- a. Present Zoning:\_\_\_ b. Applicable DPZ File References: SDP 98-11, F-98-45, F99-168
- c. Proposed Use of Site or Structure(s): DayCare d. Proposed Water and Sewer Systems: X Public - Private
- 2. Area Tabulation
- a. Total Project Area: 1.8 Acres (Indicate by Section and Area As Shown on Final Plat or As Shown on Deed)

e. Any Other Information Which May be Relevant: N/A

- b. Net Area of Site: \_\_\_\_\_1.8 \_\_\_\_ Acres
- (Indicate by Section and Area As Shown on Final Plat)

- c. Area of This Plan Submission:
   d. Limit of Disturbed Area:
   e. Building Coverage of Site: 0.31 Acres and 17.3 % of Gross Area (Proposed) f. Other Area:

- 3. Open Space Data
- a. Open Space on Site: O Acres O % of Gross Area (Proposed on This Submission or As Shown on the Final Plat)
- b. Area of Recreation Open Space Required by Subdivision and Land Development Regulations:
- (Proposed on This Submission or As Shown on the Final Plat)
- 4. Parkina Space Data
- a. Floor Space on Each Level per Building(s) per Use: 13,166 SF
- Maximum Number of Employees, Tenants On-Site per Use: \_\_\_N/A \_\_\_\_\_ c. Number of Parking Spaces Required by Zoning Regulations and Criteria:
- 13,166 SF X 3.0 SP/1000=40 SPACES d. Total Number of Parking Spaces Provided On-Site: 49 e. Number of Handicapped Parking Spaces Provided: 2



**Building Elevation** 

# 9/20/44



LOCATION MAP

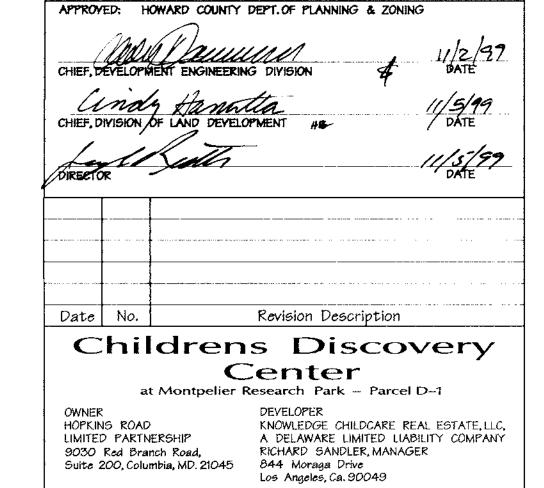
#### BENCHMARK

DESCRIPTION

Coordinates and bearing shown are referred to the system of coordinates established in the Maryland Coordinate System as projected by Howard County Geodetic Control Stations: NAD 83. Elevations shown hereon are referred to the North American Vertical Datum-NVD 29 and are based on the following Howard County Survey Control Stations: (Translated meters to feet.)

DESIGNATION	NORTH (#FT)	EAST(6FT)	Elevation (SI	
4113	544492.88	1344177.82	391.65	
0000	E 43470 06	134380016	403.62	

ADDRESS CHART				
	LOT NUMBERS STREET ADDRESS			
)	D-1			
,	D-1			



Daft · McCune · Walker, Inc. A Team of Land Planners,

Landscape Architects. Towson, Maryland 21286 Engineers, Surveyors & 410 296 3333 Fax 296 4705

Environmental Professionals Montpelier Research Park E-21

COVER SHEET

Scale: AS SHOWN Proj. No. 94171.G Drn By: CSC Des By: CSC Date: 7-29-99 Professional Engr. No. 10551 Chk By: of 7 Approved:

SDP-99-145

Fri Sep 10 11:38:11 1999

THE JOHNS HOPKINS UNIVERSITY LIBER 400 FOLIO 625 ZONED PEC N 21°52'49" E 854.17' INGRESS & EGRESS EX.LIGHT TO BE EASEMENT FOR PARCEL D-1 & D-2 RELOCATED ----APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING CONTRACTOR TO FIELD CHECK INVERT AND NOTIFY LEGEND ENGINEER IF THERE ARE DISCREPANCIES. EXISTING CONTOURS -REVERSE CURB & GUTTER PROPOSED CONTOURS CONNECT 24" RCCP TO EX. S.D. EX.INLET AND RECHANNEL EXISTING S.D. AS NECESSARY. - BUILD MANHOLE OVER 21" RCCP CL IV. STANDARD CURB & GUTTER PROPOSED S.D. AND CONNECT TO 8"S. Revision Description Date No. EX. 6" W. Childrens Discovery EXISTING WATER Center
at Montpelier Research Park - Parcel D-1 \_\_\_\_\_6" <u>W.</u>\_\_\_\_ STRUCTURE LABEL PROPOSED WATER WNER
HOPKING ROAD
LIMITED PARTNERSHIP
9030 Red Branch Road,
Sulte 200, Columbia, MD. 21045

A DELAWARE LIMITED LIABILITY COMPANY
RICHARD SANDLER, MANAGER
844 Moraga Drive
Los Angeles, Ca. 90049 PROPOSED ROOF DRAIN & CLEAN OUT PROPOSED SEWER FENCE x PROPOSED FENCE DAKA Daft · McCune · Walker, Inc. PRIVATE EXISTING WOODS INGRESS & EGRESS EASEMENT FOR 200 East Pennsylvania Avenue Towson, Maryland 21286 410 296 3333 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & PARCEL D-1 & D-2 EXISTING LIGHT 9-2>-99 Date Environmental Professionals Fax 296 4705 Montpolier Research Park

PLAT# OR LF | BLOCK # ZONE | TAX/ZONE MAP | ELECT. DISTRICT | 13937 | 17 | PEC | 41 | 5th |
WATER CODE | SEWER CODE | CAAOOOO AREA OF STEEP SLOPE PARCEL D-1 EXISTING TREES 6440000 PARKING COUNT SITE PLAN HANDICAP PARKING SYMBOL CONCRETE WALK Proj. No. 94171.G 2000 Drn By: CSC/ADL Scale: 1'=30' Des By: BIS Date: 9.10.99

Professional Engr. No. 降551

Approved:

of 7

THE JOHNS HOPKINS UNIVERSITY LIBER 400 FOLIO 625 ZONED PEC N 21°52'49" E 854.17 AREA OF STEEP SLOPES = ±0.3 ACRES EASEAMENT FOR APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING NOTE: EXISTING SEDIMENT BASIN SDP 98-11 TO BE UTILIZED. LEGEND\_ SEQUENCE OF CONSTRUCTION EXISTING CONTOURS 1. OBTAIN A GRADING PERMIT PROPOSED CONTOURS 2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES "3, CONSTRUCT STORM DRAINAGE 1-20 TO EXISTING 1-16 AND EXISTING S.D. M-1 TO 1-23 4. CLEAR AND ROUGH GRADE SITE 5. BEGIN BUILDING CONSTRUCTION, CONSTRUCT WATER-LINES & SEWER LINE. Childrens Discovery 6. CONSTRUCT PAVING AND WALKS - DRAINAGE AREA LABEL Center
at Montpelier Research Park - Parcel D-1 7. STABILIZE ALL AREAS IN ACCORDANCE WITH STANDARDS AND SPECIFICATION OWNER HOPKING ROAD 8. UPON APPROVAL OF THE SEDIMENT EROSION KNOWLEDGE CHILDCARE REAL ESTATE, LLC, A DELAWARE LIMITED LIABILITY COMPANY CONTROL INSPECTOR, REMOVE ALL EROSION CONTROL LIMIT OF DISTURBANCE LIMITED PARTNERSHIP MEASURES AND STABILIZE AND FLUSH S.D. SYSTEM RICHARD SANDLER, MANAGER 9030 Red Branch Road, Suite 200, Columbia, MD. 21045

844 Moraga Drive
Los Angeles, Ca. 90049 PRIOR TO BASIN CONVESION TO SWM. DRAINAGE AREA LIMIT \*NOTE: CONSTRUCTED STORM DRAINS TO CONVEY THE SITE SEDIMENT DMW TO THE EXISTING SEDIMENT BASIN. SDP 98-11 Daft · McCune · Walker, Inc. A Team of Land Planners, 200 East Pennsylvania Avenue Towson, Maryland 21286 Landscape Architects, 410 296 3333 Engineers, Surveyors & Fax 296 4705 Environmental Professionals PARCEL D-1 CERTIFICATION BY THE DEVELOPER: CERTIFICATION BY THE ENGINEER: REVIEWED FOR HOWARD S.C.D. AND MEETS PLATE OR LET BLOCK & ZONE TAX/ZONE MAP ELECT. DISTRICT 13937 17 PEC 41 5th
WATER CODE SEWER CODE 6051.02 "IME CERITFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE TECHNICAL REQUIREMENTS. I CERTIFY THAT THAS PLAN FOR EROSION AND SEDIMENT ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL CONTROL REPRESENTS A PRACTICAL AND WORKABLE INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE SEDIMENT & EROSION CONTROL PLAN TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE THE REQUIREMENTS OF THE HOWARD SOIL BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION & DRAINAGE AREA MAP Proj. No. 94171.G Drn By: ADL Scale: 1'=30' Des By: BIS Date: 9.10.99 Professional Engr. No. 1055 1 Chk By:

SEQUENCE

#### 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

I. This practice is limited to areas having 2:1 or flatter blopes where:

a. The texture of the exposed subsoil/parent material is not adequate to produce

b. 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.

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

I. 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 Experimental Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following: i. 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 mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slags, coarse fragments, gravel sticks, roots, trash, and other materials larger 11/2 inch in diameter.

li. Topsoil must be free of plants or 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 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.

#### II. 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

#### III. For sites having disturbed areas over 5 acres:

1. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher. b. Organic contents of topsoil shall be not less than 1.5 percent by weight.

c. Topsoil having soluble salt content greater than 500 parts per million shall not be

#### or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and

#### V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions. Grade Stabilization Structures, Earth Dikes, Slop Silt Fence and

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 topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. 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.

CERTIFICATION BY THE ENGINEER:

"I CERTIFY THAT THAS PLAN FOR EROSION AND SEDIMENT

PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE

CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE

CONTROL REPRESENTS A PRACTICAL AND WORKABLE

WITH THE REQUIREMENTS OF THE HOWARD SOIL

CONSERVATION DISTRICT."

### **Topsoil Specifications**

REVIEWED FOR HOWARD S.C.D. AND MEETS

THIS DEVELOPMENT PLAN SPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY

TECHNICAL REQUIREMENTS.

#### PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIYED YEGETATIVE COYER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING

1. PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS, PER ACRE 10-10-10 FERTILIZER (14 LBS, MOOO SQ, FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL, AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBG/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 DISK 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. (3) -SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 11/2 TO 2 TONS PER ACRE (70 - 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES & FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GALMOOD SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

#### 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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.)

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU OCTOBER 15, SEED WITH 21/2 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 11/2 TO 2 TONS PER ACRE (70 - 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 ADDITIONAL RATES AND METHODS NOT COVERED.

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437). 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. SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. B. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OF GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE "HOWARD COUNTY MANUAL," STORM DRAINAGE. 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS, SODS, TEMPORARY

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

SEEDING, AND MULCHING (SECTION G). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY

THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 7. SITE ANALYSIS:

TOTAL AREA OR SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT

Sediment Control General Notes

TOTAL FILL

1.76 ACRES 0.89 ACRES 0.87 ACRES 234 CUBIC YARDS 3852 CUBIC YARDS

1.81 ACRES

OFF-SITE WASTE/BORROW AREA LOCATION WASTE = UNDETERMINED 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 CONTROLS 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 THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

- MOUNTABLE BERM (SEE DETAIL) 50' MINIMUM - EARTH FILL PAYEMENT \*\* GEOTEXTILE CLASS 'C' - PIPE AS NECESSARY OR BETTER MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF EXISTING GROUND STRUCTURE **PROFILE** \* 50' MINIMUM LENGTH EXISTING 10' MINIMUM **PAVEMENT** WIDTH PLAN VIEW STANDARD SYMBOL

#### CONSTRUCTION SPECIFICATIONS

1. LENGTH - MINIMUM OF 50' (\*30' FOR SINGLE RESIDENCE LOT). 2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING

3. GEOTEXTILE FABRIC CLASS C (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. \*\*THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.

4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6' DEEP OVER THE LENGTH AND WIDTH OF THE

5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6º 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, YEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

F - 17 - 5

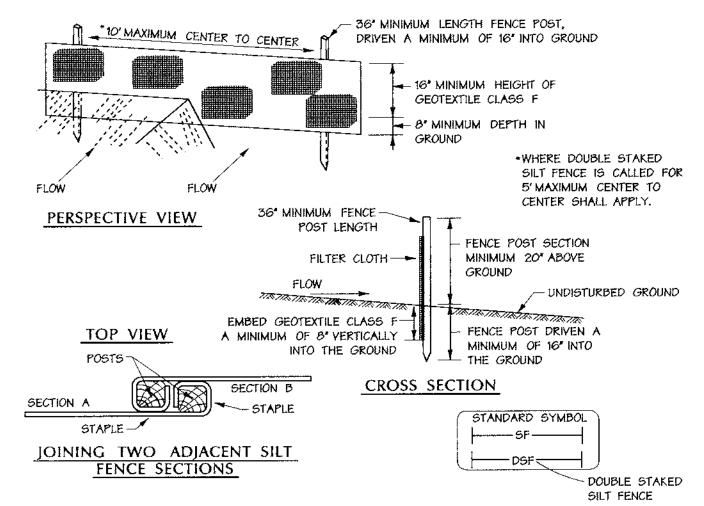
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Stabilized Construction Entrance

Not To Scale

### Permanent/Temporary Seeding Notes



#### CONSTRUCTION SPECIFICATIONS

STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR

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 POUND PER LINEAR FOOT. 2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR

GEOTEXTILE CLASS F: TENSILE STRENGTH TENSILE MODULUS FLOW RATE FILTERING EFFICIENCY

50 LBS/IN (MIN.) 20 LB5/IN (MIN.) 0.3 GAL FT/MIN (MAX) TEST: MSMT 322 75% (MIN.)

TEST: MSMT 509 TEST: MSMT 509 TEST: MSMT 322

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED.

FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. 4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

E - 15 - 5

9/13/99

WATER MANAGEMENT ADMINISTRATION Not To Scale

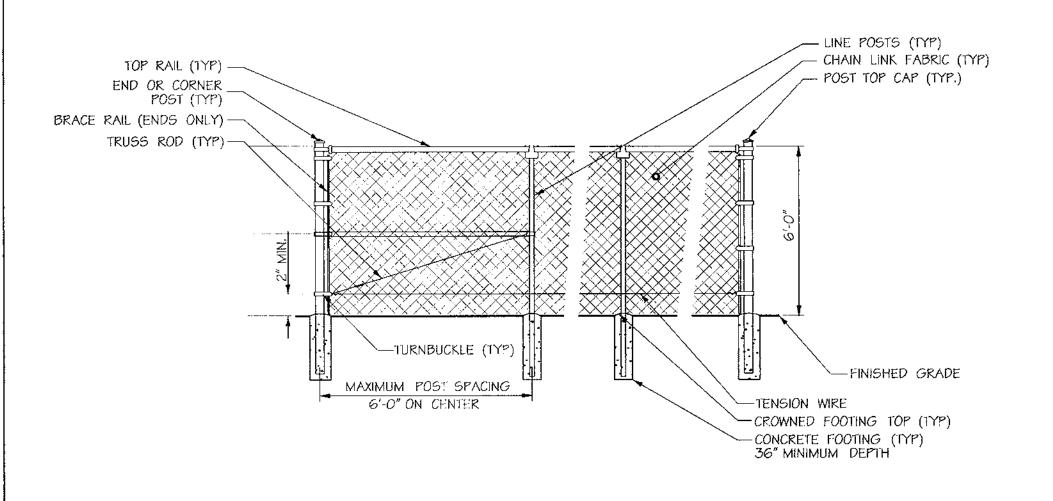
MARYLAND DEPARTMENT OF ENVIRONMENT

Silt Fence CERTIFICATION BY THE DEVELOPER:

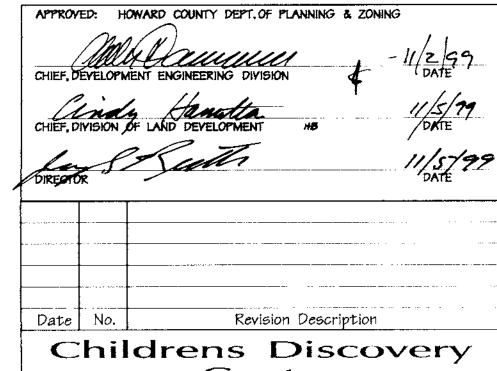
INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION

KNOWLEDGE CHILDRAGE REAL ESTAM, 126

"INVE CERITFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL BY THE HOWARD SOIL CONSERVATION DISTRICT."



Chain Link Fence



# Center

at Montpelier Research Park - Parcel D-1 DEVELOPER KNOWLEDGE CHILDCARE REAL ESTATE, LLC, HOPKINS ROAD

LIMITED PARTNERSHIP 9030 Red Branch Road, Suite 200, Columbia, MD. 21045

Montpelier Research Park

DMW

A Team of Land Planners,

Environmental Professionals SUBDIVISION NAME SECTION/ AREA

Landscape Architects,

Engineers, Surveyors &

Daft · McCune · Walker, Inc.

A DELAWARE LIMITED LIABILITY COMPANY RICHARD SANDLER, MANAGER 844 Moraga Drive Los Angeles, Ca. 90049

9/20/09

Professional Engr. No. 1055

6440000 E-21 SEDIMENT & EROSION CONTROL **DETAILS** 

5th

Scale: AS SHOWN Proj. No. 94171.G Date: 9,10.99 of 7 Approved:

SDP-99-145

Fri Sep 10 09:07:51 1999

200 East Pennsylvania Avenue

PARCEL D-1

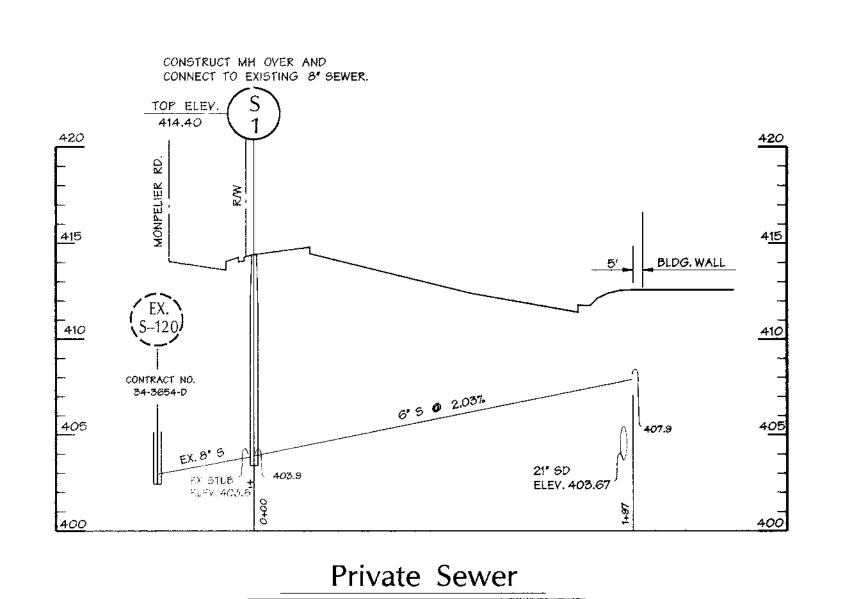
6051.02

Towson, Maryland 21286

410 296 3333

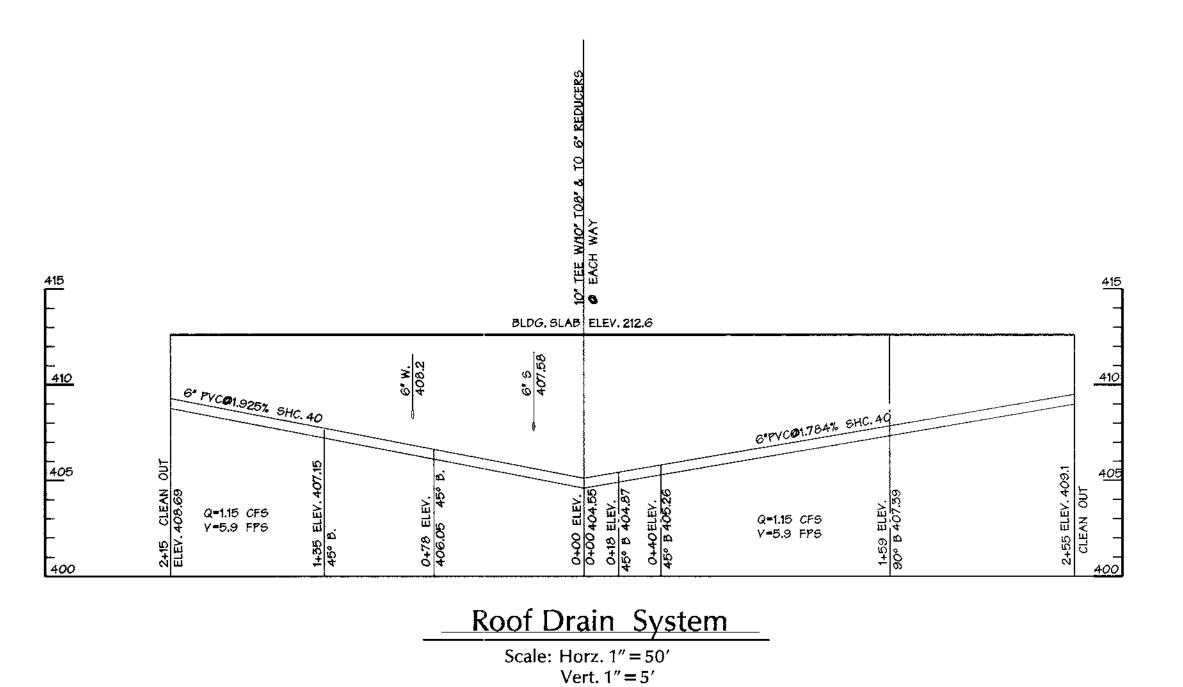
Fax 296 4705

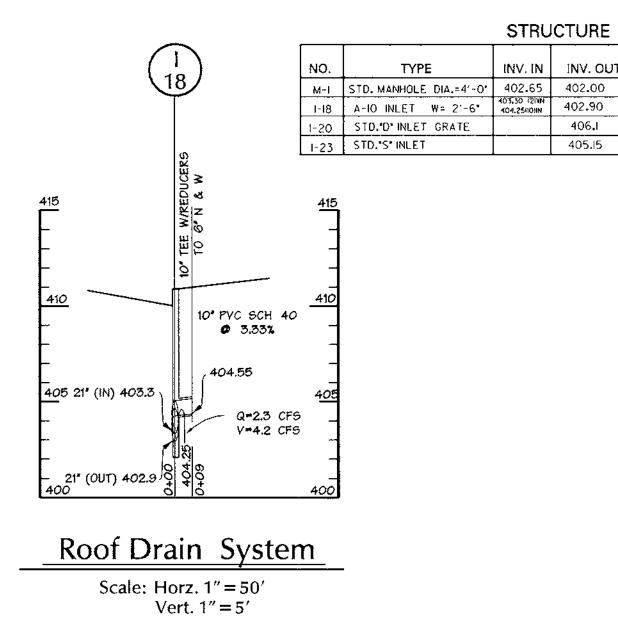
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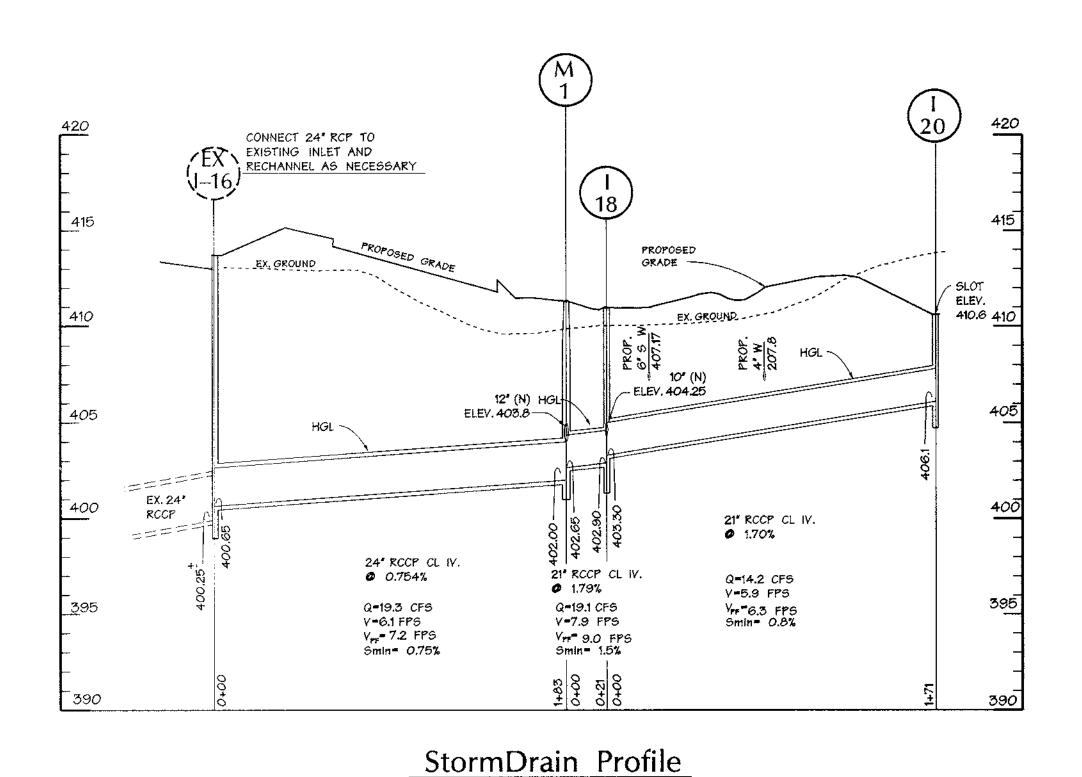


Scale: Horz. 1'' = 50'

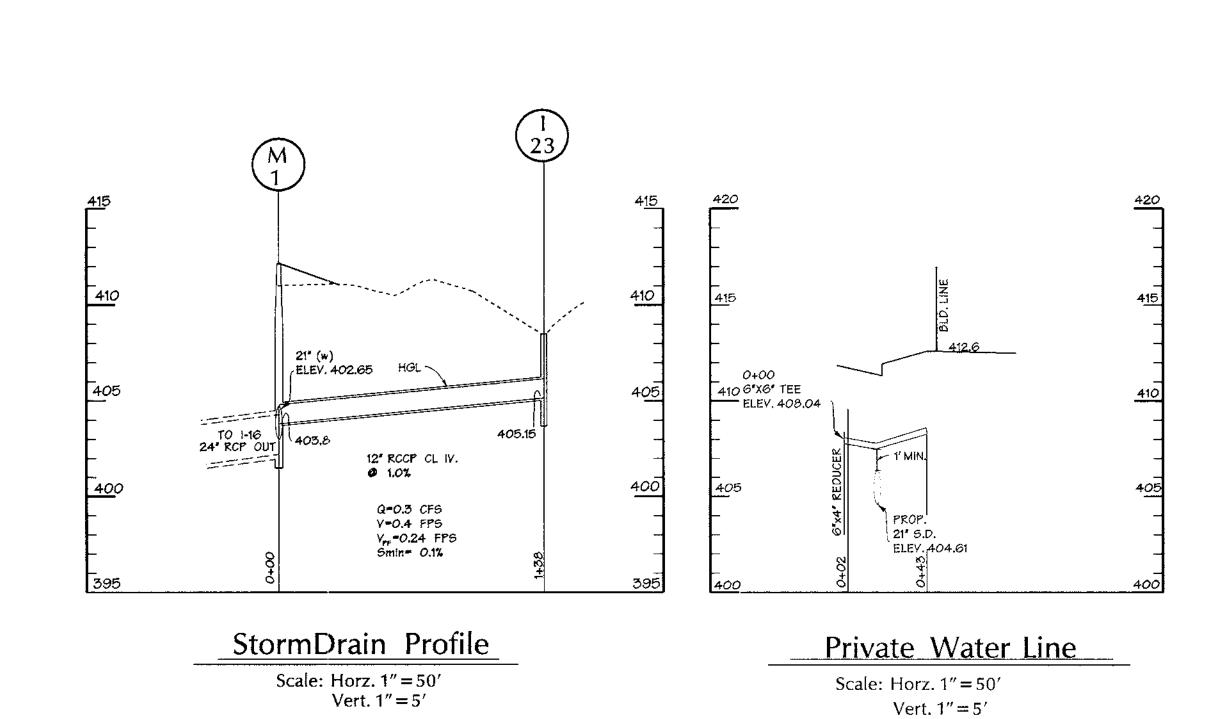
Vert. 1'' = 5'

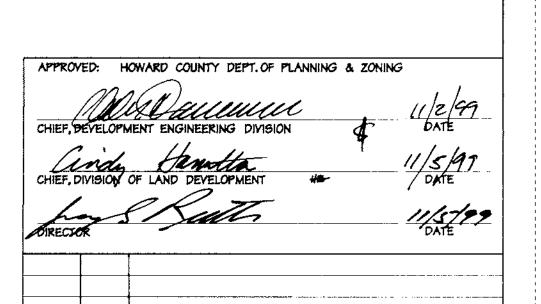






Scale: Horz. 1'' = 50'Vert. 1'' = 5'





Revision Description Childrens Discovery

# Center at Montpelier Research Park - Parcel D-1

OWNER HOPKINS ROAD LIMITED PARTNERSHIP

DEVELOPER KNOWLEDGE CHILDCARE REAL ESTATE, LLC, A DELAWARE LIMITED LIABILITY COMPANY LIMITED PAKINEKODIII
9030 Red Branch Road, RICHARD SANULEK, MOINTE
Suite 200, Columbia, MD. 21045 844 Moraga Drive
Los Angeles, Ca. 90049 RICHARD SANDLER, MANAGER

200 East Pennsylvania Avenue

Towson, Maryland 21286

STRUCTURE SCHEDULE

INV. IN INV. OUT

406.1

405.15

TOP ELEVATION UPPER LOWER

411.3

410.98/410.80

411.43

408.50

REMARKS

HO.CO. STD. G 5.12

HO.CO. STD. G 4.4I

HO.CO. STD. S.D.4.22

.CO. STD. S.D.4.II SLOTS 4 SIDES

DMW Daft · McCune · Walker, Inc. A Team of Land Planners, Landscape Architects,

Engineers, Surveyors & Environmental Professionals

410 296 3333 Environmental Professionals

SUBDIVISION NAME

Montpolier Research Park

PLAT# OR UP BLOCK # ZONE TAXZONE MAP ELECT. DISTRICT

13937 17 PEC 41 5th

WATER CODE

E-21 5EWER CODE

6440000 Fax 296 4705 DT/PARCEL # PARCEL D-1

# UTILITY PROFILES

Scale: 1"=50' Drn By: ADL Proj. No. 94171.G Des By: BIS 5 of 7 Date: 7-29--99

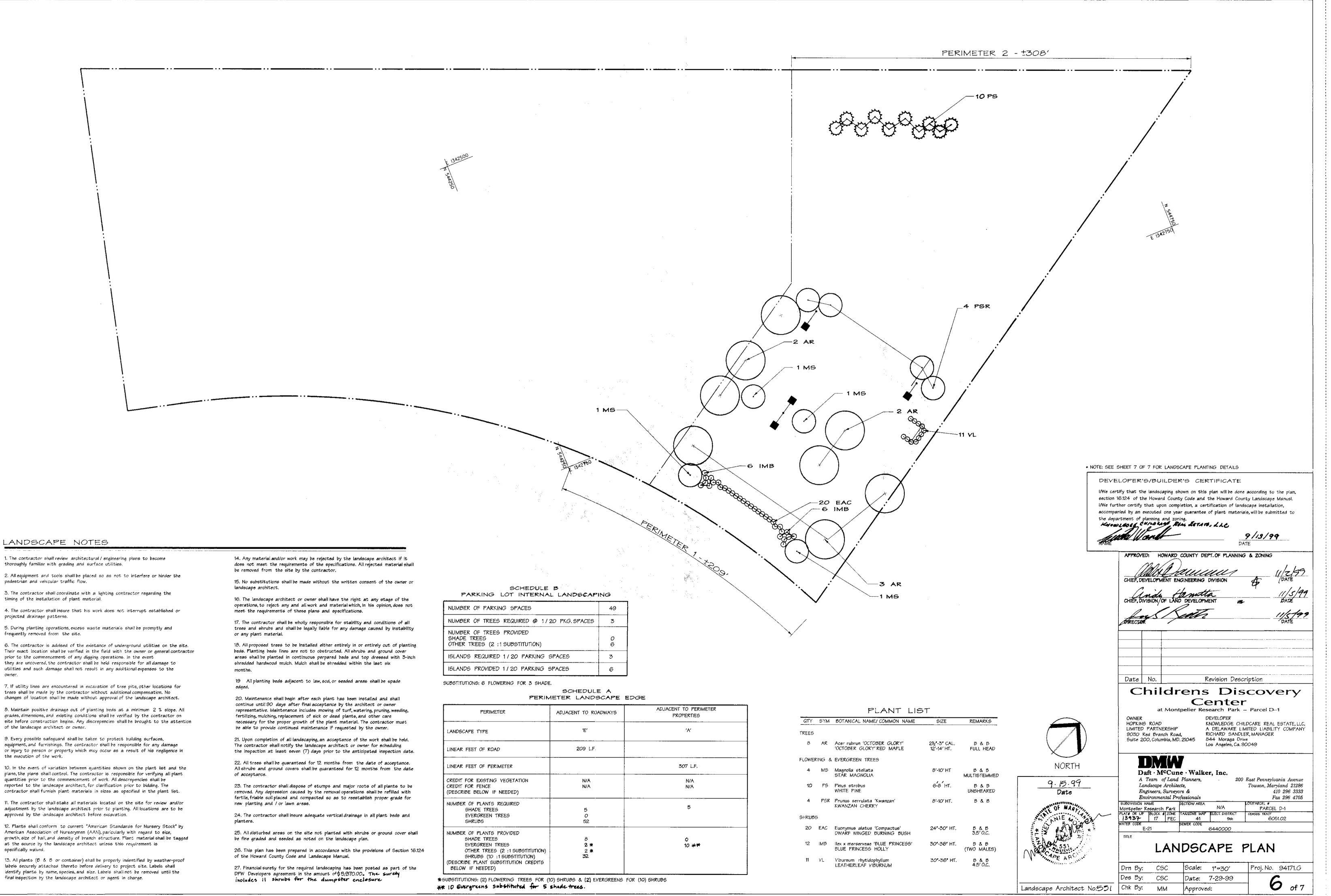
9/2/99

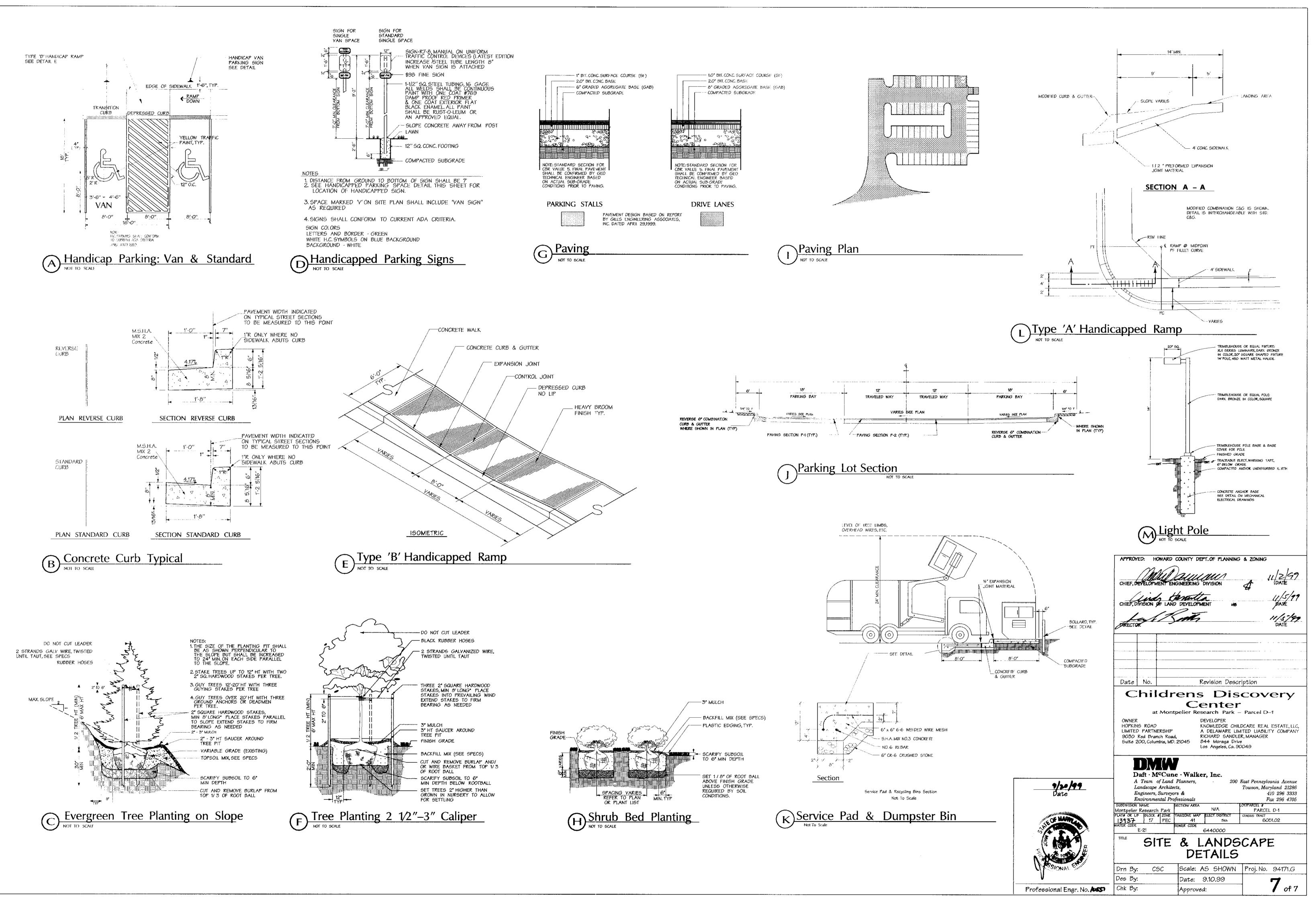
Approved:

Fri Sep 10 09:43:23 1999 n:\94171.g\@dprof.dgn

SDP-99-145

Professional Engr. No. 1955 Chk By:





Fri Sep 10 09:24:58 1999 n:\94171.e\94171g.dt1

SDP-99-145

	SHEET INDEX		
SHEET No.	DESCRIPTION		
1	TITLE SHEET		
2	MARYLAND ROUTE 97 PLAN AND PROFILE		
3	ROLLING HILLS DRIVE PLAN AND PROFILE		
4	COUNTRY CLUB DRIVE PLAN AND PROFILE		
5	CLEAR DRIVE COURT PLAN AND PROFILE		
6	WINDING PATH COURT PLAN AND PROFILE		
7 - 9	STREET TREE, GRADING AND SEDIMENT CONTROL PLAN		
10	5.W.M. GRADING AND SEDIMENT CONTROL PLAN		
11	TRAFFIC CONTROL AND STRIPING PLAN		
12 - 13	CROSS-SECTIONS (MD ROUTE 97)		
14 - 16	STORM DRAIN PROFILES		
17	DRAINAGE AREA MAP		
18	LANDSCAPE PLAN		
19	DETAIL SHEET		
20 - 21	SEDIMENT CONTROL NOTES AND DETAILS		
22 - 23	S.W.M. NOTES AND DETAILS		
24	FOREST CONSERVATION PLAN		
25	FOREST CONSERVATION NOTES AND DETAILS		
26	5.W.M. ACCESS ROAD PROFILE		
27	S.W.M. SOIL BORINGS		

## FINAL ROAD CONSTRUCTION, GRADING AND STORMWATER MANAGEMENT PLANS

# CATTAIL RIDGE

LOTS 4 THRU 37 AND

### PRESERVATION PARCELS 'A' THRU 'C'

(A RESUBDIVISION OF "CATTAIL RIDGE", LOTS 1 THRU 3, PLAT NO. 13626, AND THE RESIDUE OF SYNDACON PROPERTY, INC., LIBER 4228, FOLIO 464) ZONING "RC-DEO"

TAX MAP No. 21, PARCEL NO. 228, GRID NO. 3

FOURTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

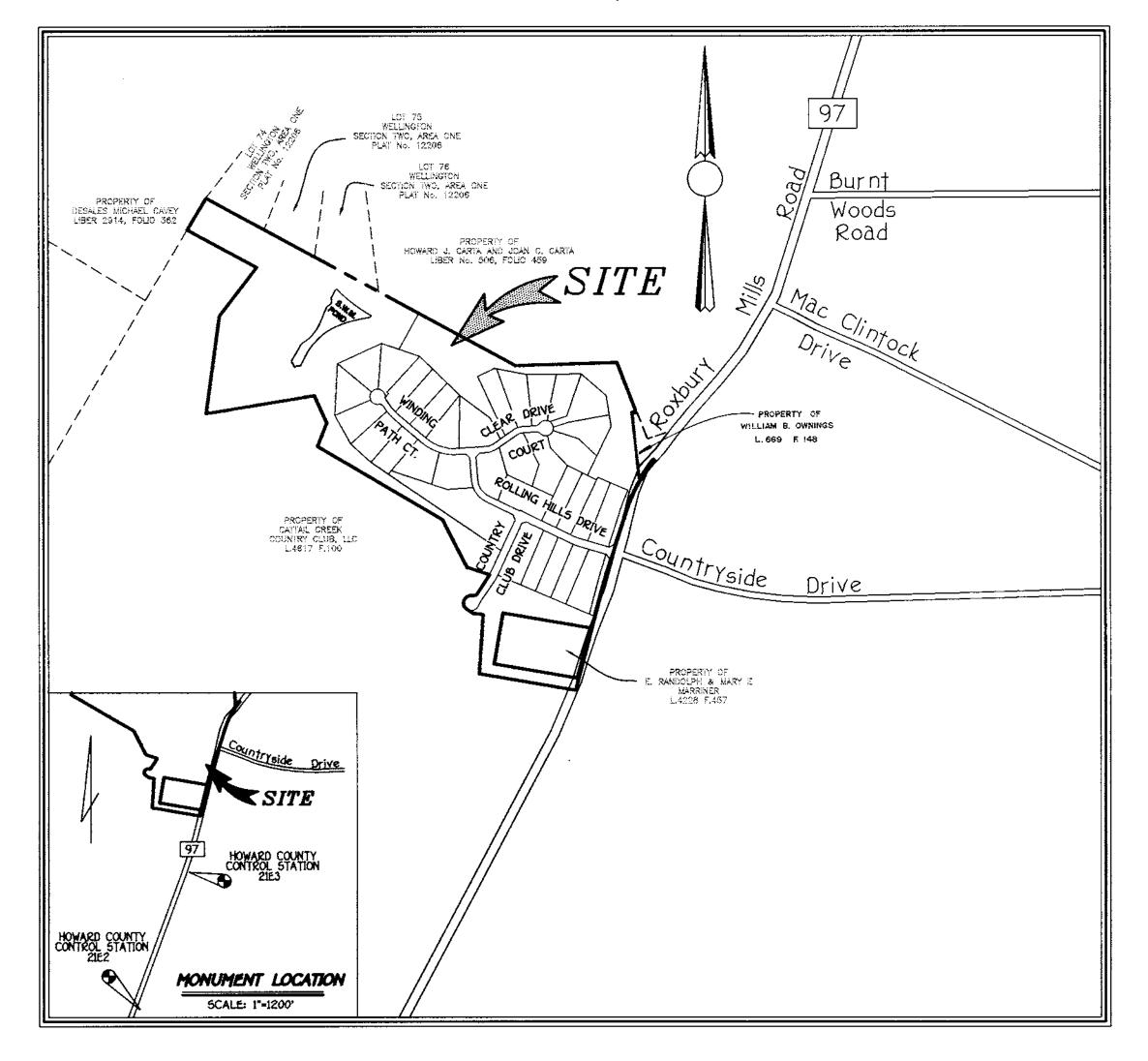
RO	AD CL	A551F1C	ATION	
ROAD NAME		CLASSIFICATION	N R	/W
				,,,

GROSS PIPESTEM REMAINING

AREA AREA LOT SIZE

ROAD CLASSIFICATION			
ROAD NAME	CLASSIFICATION	R/W	
ROLLING HILLS DRIVE	MINOR COLLECTOR / ACCESS STREET	50' / 40'	
COUNTRY CLUB DRIVE	ACCESS STREET	40'	
CLEAR DRIVE COURT	ACCESS PLACE	40'	
WINDING PATH COURT	ACCESS PLACE	40*	

TRAFFIC CONTROL SIGNS				
STREET NAME	C.L. STATION	OFFSET	POSTED SIGN	SIGN CODE
ROLLING HILLS DRIVE	7+95	13°R	ROAD NARROWS	W5-1
ROLLING HILLS DRIVE	<b>છ</b> +65	13°L	ROAD NARROWS	₩5-1
COUNTRY CLUB DRIVE	5+15	14'R	ROAD NARROWS	₩5-1
COUNTRY CLUB DRIVE	5+95	14°L	ROAD NARROWS	₩5-1
CLEAR DRIVE COURT	2+45	II'R	ROAD NARROWS	₩5-1
CLEAR DRIVE COURT	3+15	11°L	ROAD NARROWS	₩5-1
WINDING PATH COURT	0+75	11'R	ROAD NARROWS	₩5-1
WINDING PATH COURT	1+45	11°L	ROAD NARROWS	W5-1
WINDING PATH COURT	3+85	11°R	ROAD NARROWS	₩5-1
WINDING PATH COURT	4+55	IIL	ROAD NARROWS	₩5-I
ROLLING HILLS DRIVE	0+72	32°L	5TOP	Ri-i
ROLLING HILLS DRIVE	12+26	20'R	5TOP	R1-1
COUNTRY CLUB DRIVE	0+32	24'L	STOP	R1-1
ROLLING HILLS DRIVE	2+00	14'R	SPEED LIMIT 25	R2-1
ROLLING HILLS DRIVE	7+00	13'R	SPEED LIMIT 25	R2-1
COUNTRY CLUB DRIVE	2+00	13'R	SPEED LIMIT 25	R2-1
CLEAR DRIVE COURT	2+00	II'R	SPEED LIMIT 25	R2-1
WINDING PATH COURT	2+00	11'R	SPEED LIMIT 25	R2-1
ROLLING HILLS DRIVE	0+45	<b>@</b> £	KEEP RIGHT	R4-7
ROLLING HILLS DRIVE	2+00	14° L	STOP AHEAD	W3-10



VICINITY MAP

### OWNERS

SYNDACON PROPERTY, INC c/o BRS DEVELOPERS, LLC ATTENTION: Mr. J. THOMAS SCRIVENER 8808 CENTER PARK DRIVE, SUITE 209 COLUMBIA, MARYLAND 21045

GOODIER BUILDERS, INC. ATTENTION: Mr. ROBERT GOODIER 10705 CHARTER DRIVE, SUITE 320 COLUMBIA, MARYLAND 21044

WILLIAMSBURG GROUP, L.L.C. ATTENTION: Mr. CHIP LUNDE P.O. BOX 1018 ROSEMARK CUSTOM HOMES, INC. ATTENTION: Mr. 5. ROBERT KAUFMAI LAUREL LAKES CORPORATE CENTER

13920 BALTIMORE BOULEVARD

LAUREL, MARYLAND 20707

DEVELOPER

SYNDACON PROPERTY, INC. c/o BRS DEVELOPERS, LLC

ATTENTION: Mr. J. THOMAS SCRIVENER 8808 CENTER PARK DRIVE, SUITE 209

COLUMBIA, MARYLAND 21045

### GENERAL NOTES

- . ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION

12-1-99

- INSPECTION DIVISION AT (410) 313-1880 AT LEAST (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 AN
- EXCAVATION WORK BEING DONE. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE
- 5. 2 FOOT CONTOUR TOPOGRAPHY AND EXISTING CONDITIONS BASED ON AERIAL TOPOGRAPHIC SURVEY
- PREPARED BY AERIAL MAPPING CO., INC. , FLOWN IN 1998. 6. THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT Nos. 2122 AND 2123
- - 21E3 N 584,559,4765 21E2 N 503,065.3000 E 1,302,074.5340
- 7. WATER IS PRIVATE. B. SEWER IS PRIVATE.
- 9. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC. (APPROVED UNDER 598-09).
- 10. BACKGROUND INFORMATION: A. SUBDIVISION NAME: CATTAIL RIDGE
- B. TAX MAP NO.: 21
- C. PARCEL NO.: 228 D. ZONING: RC-DEO
- E. ELECTION DISTRICT: FOURTH F. TOTAL TRACT AREA: 00.359 AC. ±
- G. NO. OF BUILDABLE LOTS: 32 H. NO. OF PRESERVATION PARCELS: 3
- I. NO. OF OPEN SPACE LOTS: 2 J. PRELIMINARY PLAN APPROVAL DATE: FEBRUARY 8, 1999
- K. PREVIOUS FILE Nos.: 598-09 AND P99-02
- L. TOTAL AREA OF OPEN SPACE REQUIRED: (88.359 AC. x 5%) \* 4.419 AC.\* M. TOTAL AREA OF OPEN SPACE PROVIDED: 4.419 AC.+
- 11. REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE TO BE PROVIDED AT THE JUNCTION OF THE PIPE / FLAG STEM AND THE ROAD R/W AND NOT ONTO THE
- PIPE / FLAG STEM DRIVEWAY.
- 12. NO CEMETERIES EXIST ON THE PROPERTY.
- 13. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF ASTM T-180.
- 14. THE WETLAND AND FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. AND APPROVED under 598-09.
- 15. NOISE STUDY WAS PREPARED BY WILDMAN ENVIRONMENTAL SERVICES AND APPROVED UNDER P99-02.
- 16. THE FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- 17. STORMWATER MANAGEMENT FACILITY:
  - TYPE WET POOL DETENTION FACILITY OWNER - HOMEOWNER'S ASSOCIATION (PRIVATE)
  - MAINTENANCE HOMEOWNER'S ASSOCIATION (PRIVATE)
- 18. PROPERTY SUBECT TO MDE DAM SAFTY FILE NO. 99-PO-2096.
- 19. FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT ARE BEING PROVIDED BY 11.057 ACKES OF REPORESTATION AS SHOWN ON SHEETS 24 AND 25, IN ADDITION TO THIS REFORESTATION REQUIREMENT THERE IS 20.603 ACRES OF FOREST RETENTION AREAS WHICH INCLUDE FLOODPLAIN AREAS AND THE EXISTING 1.364 ACRES OF RETENTION AREA PLATED UNDER F-99-21.

CATTAIL RIDGE

AND PRESERVATION PARCELS 'A' - 'C' (A RESUBDIVISION OF "CATTAIL RIDGE", LOTS 1 THRU 3, PLAT NO. 13626, AND THE RESIDUE OF SYNDACON PROPERTY, INC., LIBER 4228, FOLIO 464)

> ZONED RC-DEO TAX MAP NO. 21 PARCEL NO. 228 GRID NO. 3 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: JUNE 1, 1999 SHEET 1 OF 27



