SHEET INDEX	
TITLE	SHEET NO.
SITE DEVELOPMENT PLAN	1 OF 7
GRADING AND SEDIMENT EROSION CONTROL PLAN	2 OF 7
DETAIL SHEET FOR SITE DETAILS	3 OF 7
DETAIL SHEET FOR SEDIMENT EROSION CONTROLS	4 OF 7
LANDSCAPING AND PLANTING PLAN	5 OF 7
DETAIL SHEET	6 OF 7
SITE CROSS SECTION	7 OF 7

GENERAL NOTES

1) ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.

2) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

3) THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.

4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE, CENTURY ENGINEERING AT (301) 823-8070, IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES, PRIOR TO BEGINNING WORK.

5) THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.

6) IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

7) THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THE DRAWINGS:

MISS UTILITY	559-0100
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIV.	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/ INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

8) ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

9) THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.

10) PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.

11) NO PIPE SHALL BE LAID UNTIL LINE OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.

12) ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

13) DAILY TRASH REMOVAL TO BE PROVIDED.

SITE ANALYSIS

AREA OF PARCEL 0-1	0.846 Ac.	
AREA OF LOT 152	1.920 Ac.	
TOTAL AREA THIS PLAN	2.766 Ac.	
BUILDING COVERAGE:		
PARCEL 0-1	4000 ⊕ + 3,092 Ac.	(10.00%)
LOT 152	7415 ⊕ + 0.171 Ac.	(8.90%)
TOTAL PARKING COVERAGE	31,834 ⊕ 0.73 Ac.	(26.19%)
TOTAL GREEN SPACE	70,556 ⊕ 1.620 Ac.	(58.91%)

NOTE:
BUILDING COVERAGE FOR LOT 152 INCLUDES THE BATH HOUSE, MAIN POOL AND THE WADING POOL.

VILLAGE OF HICKORY RIDGE
LOT 147
PLAT # 7050
OPEN SPACE

PARKING TABULATIONS

DAYCARE FACILITY:
1 Space / 400 SF. 4000 SF / 400 SF = 10 Spaces
Spaces Provided = 10

POOL FACILITY:
1 Space / 8 Persons = 328 people / 8 = 41 Spaces
Spaces Provided = 41

TOTAL PARKING AVAILABLE = (10 + 41) = 51 Spaces

TOTAL HANDI-CAP SPACES REQUIRED = 3 Spaces
TOTAL HANDI-CAP SPACES PROVIDED = 4 Spaces

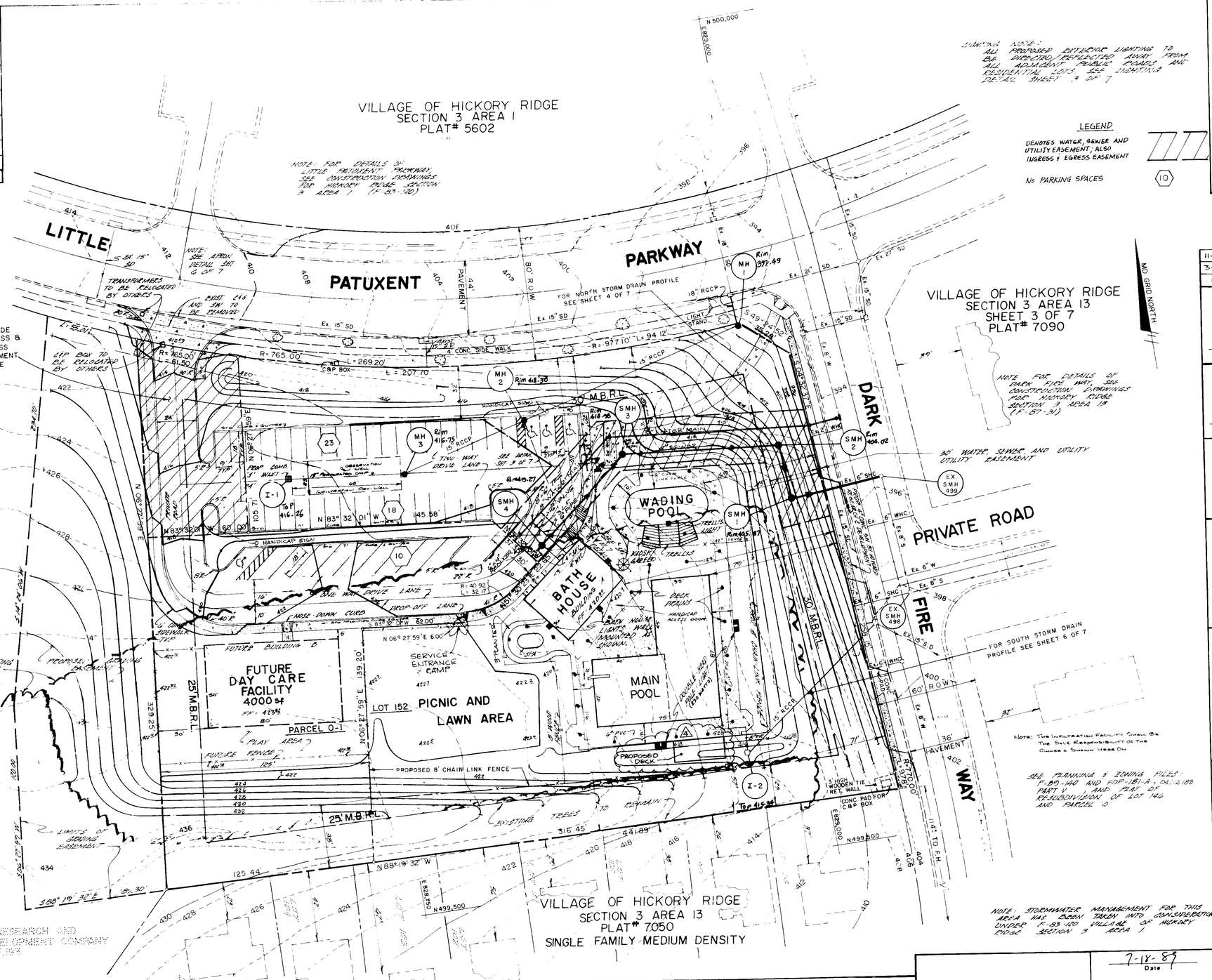
AS-BUILT
ENGINEERS CERTIFICATION

I hereby certify that the storm drain, stormwater management, water & sewer facilities shown on this plan were constructed as shown on as-built plan and meet the approved plans & specifications.

HOWARD RESEARCH AND DEVELOPMENT COMPANY
10275 LITTLE PATUXENT PKWY
COLUMBIA, MD. 21044

STATE OF MARYLAND
MARK SEDGHI
No. 13816
PROFESSIONAL ENGINEER

Mark Sedghi, P.E. 13816
Sedghi & Associates, Ltd.
3247 Corporate Ct.
Ellicott City, Md. 21043
(410) 750-9003

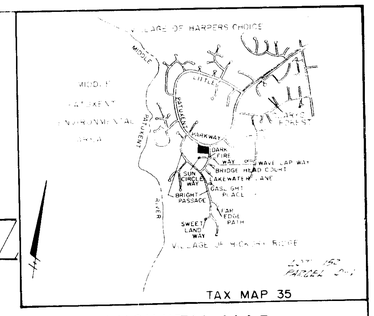


LIGHTING NOTE:
ALL PROPOSED EXTERIOR LIGHTING TO BE DIRECTED/REFLECTED AWAY FROM ALL ADJACENT PUBLIC ROADS AND RESIDENTIAL LOTS. SEE LIGHTING DETAIL SHEET 3 OF 7

LEGEND

DENOTES WATER, SEWER AND UTILITY EASEMENT; ALSO INGRESS & EGRESS EASEMENT

No PARKING SPACES (10)



VICINITY MAP
SCALE 1" = 2000'

Date	No.	Revision Description
11-16-95	4	ADDED PROPOSED DECK
3-15-90	3	REV. CONC. ENTRANCE & WATER LINE M.C.R.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD S.C.D. — 7/21/89 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 8/28/89 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — 9-[illegible] DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 8/25/89 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — 8/25/89 DATE

CHIEF, BUREAU OF ENGINEERING — 8-14-89 DATE

Date	No	Revision Description
4/17/89	2	PER HOWARD CO. COMMENTS
2/14/89	1	PER HO. CO. DEPT. COMMENTS

OWNER/DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PKWY
COLUMBIA, MARYLAND 21044
PARCEL 0-1

COLUMBIA ASSOCIATION
SUITE 400, ONE NOLL NORTH
COLUMBIA, MARYLAND 21045
(301) 730-2616
LOT 152

CLARY'S FOREST NEIGHBORHOOD POOL

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA: RECORD PLAT REFERENCE NO. 7050
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 13
LOT 152 - PARCEL 0-1
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN

Des By JP	Scale 1" = 30'	Proj No 88-030
Drn By MAG	Date DEC. 24, 1988	Drawing No 1 OF 7
Chk By DLL	Approved JRH	

Professional Engr No 14920 — 7-18-89 Date

CONTRACTOR
METROPOLITAN CONTRACTING CO.
5209 YORK ROAD
BALTIMORE, MARYLAND 21212

BY THE ENGINEER:
"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."

ENGINEER: JOHN HEINRICHS — 7-18-89 DATE

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER — DATE

4-12-89 LKS

ADDRESS CHART	
LOT NO.	ADDRESS
BATH HOUSE BLDG A	11615 LITTLE PATUXENT PARKWAY

SUBDIVISION NAME			SECT./AREA	LOT/PARCEL NO.
VILLAGE OF HICKORY RIDGE			3/13	152 & PARCEL 0-1
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE-MAP	ELECT. DIST.	CENSUS TR.
8771	10	NEW TOWN / OPEN SPACE / COMMERCIAL	35	5	6053.01
WATER CODE			SEWER CODE	
E-27			6592000	

SDP-89-125

PERMANENT SEEDING NOTES

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

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

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

1) Preferred — Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) 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).

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

Mulching -- Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

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

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

Soil Amendments: Apply 60 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 November 15, seed with 2½ 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 1½ 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 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

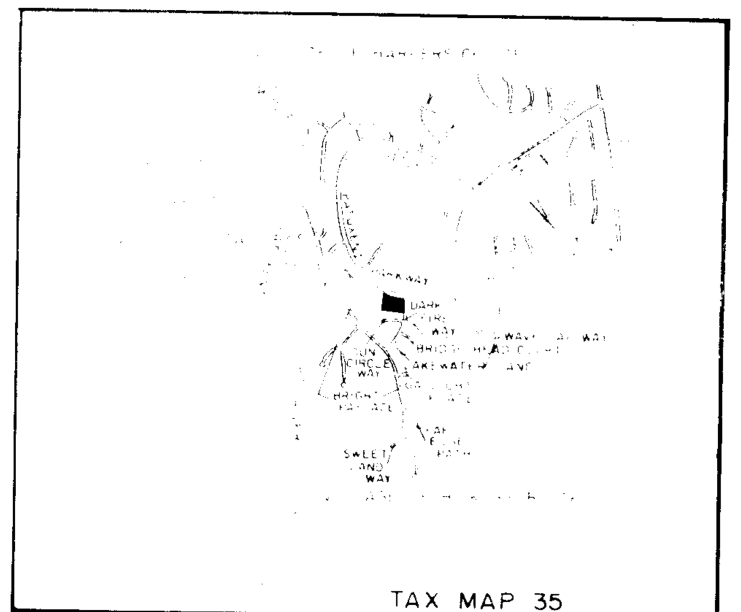
TRAP SCHEDULE

NO.	TYPE	EXIST. DRAINAGE AREA	PROPOSED DRAINAGE AREA	ST. RAGE REQ.	STORAGE PROVIDED	OUTLET LENGTH	ST. RAGE DEPTH	BANK ELEV.	WEIR ELEV.	CLEAN OUT ELEV.	BOTTOM ELEV.	[illegible]	[illegible]
1	PIPE OUTLET	2.6	2.2	4,8[illegible]	4,8[illegible]	32	4	[illegible]	[illegible]	3[illegible]4	3[illegible]	[illegible]	[illegible]

SOIL TYPE: MANOR GRAVELLY LOAM
NAMES: MgB2, MgC2, MgC3
HYDROLOGIC SOIL CLASS "B"
HOWARD COUNTY SOIL SURVEY MAP 24

SEQUENCE OF CONSTRUCTION

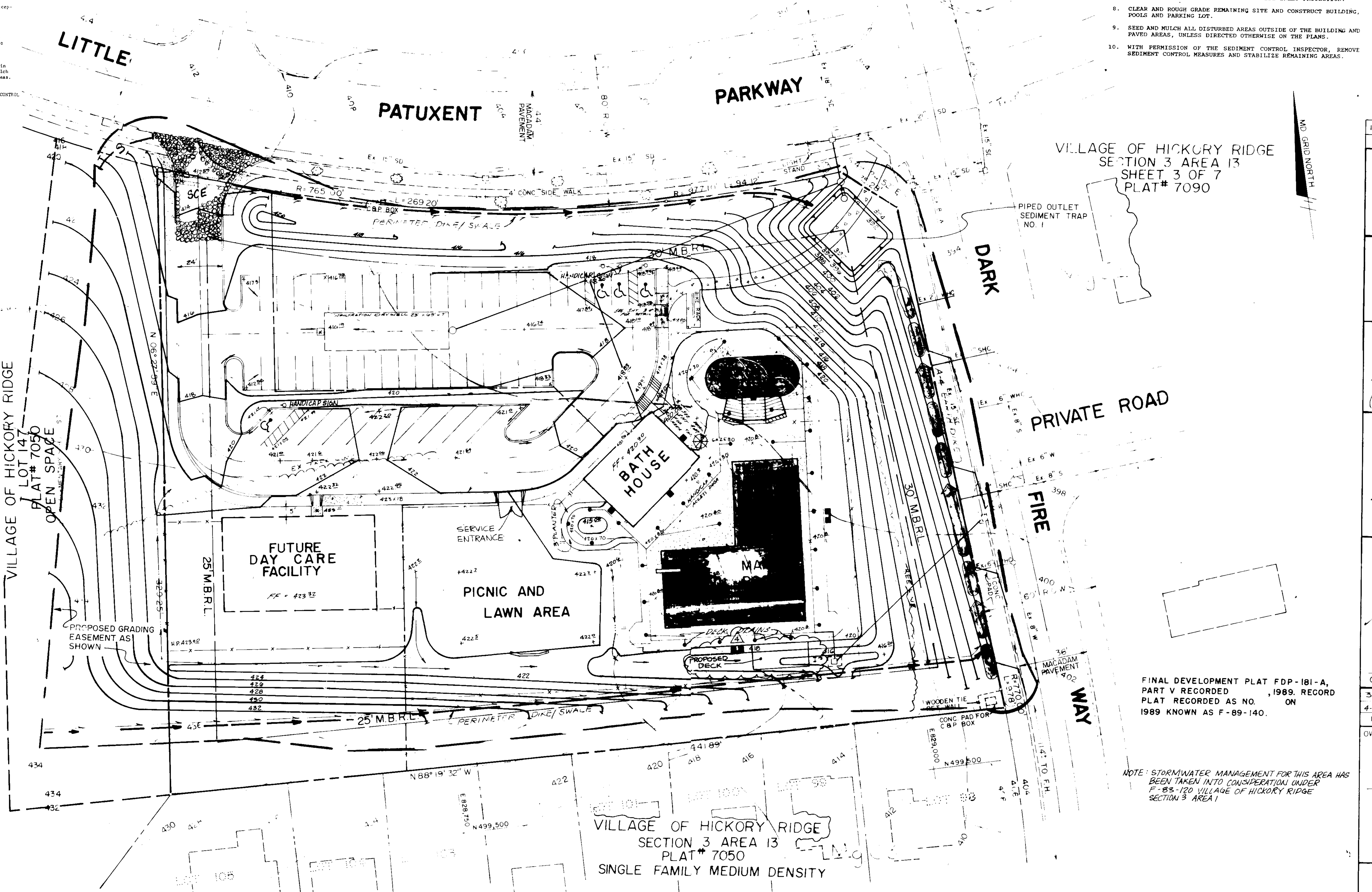
1. OBTAIN GRADING PERMIT.
2. NOTIFY THE DPW SEDIMENT CONTROL INSPECTOR FOR HOWARD COUNTY 24 HOURS PRIOR TO START OF ANY CONSTRUCTION.
3. STAKEOUT LIMITS OF CONSTRUCTION, AND SEDIMENT AND EROSION CONTROL DEVICES.
4. CLEAR AND GRUB AREA FOR STABILIZED CONSTRUCTION ENTRANCE.
5. CLEAR AND GRUB AREAS FOR SEDIMENT CONTROL MEASURES.
6. EXCAVATE AND CONSTRUCT PIPE OUTLET SEDIMENT TRAP, AND INSTALL PERIMETER DIKE/SWALE, EARTH DIKE, AND SILT FENCE.
7. INSTALL STORM DRAIN SYSTEM AND PROVIDE INLET PROTECTION.
8. CLEAR AND ROUGH GRADE REMAINING SITE AND CONSTRUCT BUILDING, POOLS AND PARKING LOT.
9. SEED AND MULCH ALL DISTURBED AREAS OUTSIDE OF THE BUILDING AND PAVED AREAS, UNLESS DIRECTED OTHERWISE ON THE PLANS.
10. WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE REMAINING AREAS.



VICINITY MAP

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED EASEMENT
- EXISTING WOODS
- SOILS LINE
- PROPERTY / R/W LINE
- EARTH DIKE
- PERIMETER DIKE/SWALE
- SEDIMENT TRAP



FINAL DEVELOPMENT PLAT FDP-181-A, PART V RECORDED , 1989. RECORD PLAT RECORDED AS NO. ON 1989 KNOWN AS F-89-140.

NOTE: STORMWATER MANAGEMENT FOR THIS AREA HAS BEEN TAKEN INTO CONSIDERATION UNDER F-83-120 VILLAGE OF HICKORY RIDGE SECTION 3 AREA I

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. (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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, 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, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 5?), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector
7) Site Analysis:
   - Total Area of Site 2.786 Acres
   - Area Disturbed 3.370 Acres
   - Area to be roofed or paved 1.170 Acres
   - Area to be vegetatively stabilized 0.198 Acres
   - Total Cut 17,326 Cu. yds
   - Total Fill 6,681 Cu. yds
   - Offsite waste/borrow area location
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.

CONTRACTOR
METROPOLITAN CONTRACTING CO.
5209 YORK ROAD
BALTIMORE, MARYLAND 21212

ADDRESS CHART

LOT NO.	ADDRESS
BATH HOUSE BLDG A	11615 LITTLE PATUXENT PARKWAY

SUBDIVISION NAME			SECT./AREA	LOT/PARCEL NO.	
VILLAGE OF HICKORY RIDGE			3/13	152 & PARCEL O-1	
PLAT NO.	BLOCK NO. 10	ZONE NEW TOWN OPEN SPACE COMMERCIAL	TAX/ZONE-MAP 35	ELECT. DIST. 5	CENSUS TR. 6053.01
WATER CODE E-27			SEWER CODE 6592000		

BY THE ENGINEER:
"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."

ENGINEER: JOHN HEINRICHS — DATE 7-18-89

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER — DATE 1/1/?7

4-12-89
LKS

7-18-89
Date

Professional Engr No 14920

Date	No.	Revision Description
11-16-95	4	ADDED PROPOSED DECK

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
U.S. CONSERVATION SERVICE — DATE 7/21/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
HOWARD S.C.D. — DATE 7/21/89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8/28/89

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 9.5.89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 8/23/89
LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8.25.89
CHIEF, BUREAU OF ENGINEERING — DATE 8-14-89

Date	No.	Revision Description
3-15-90	3	REVISED CONC. ENTRANCE M.C.R.
4-17-89	2	PER HOWARD CO. COMMENTS DDS/RLS

OWNER/DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PKWY
COLUMBIA, MARYLAND 21044
PARCEL "O"

COLUMBIA ASSOCIATION
SUITE 4??, ONE KNOLL NORTH
COLUMBIA, MARYLAND 21045
(301) 730-2616
LOT 146

CLARY'S FOREST NEIGHBORHOOD POOL

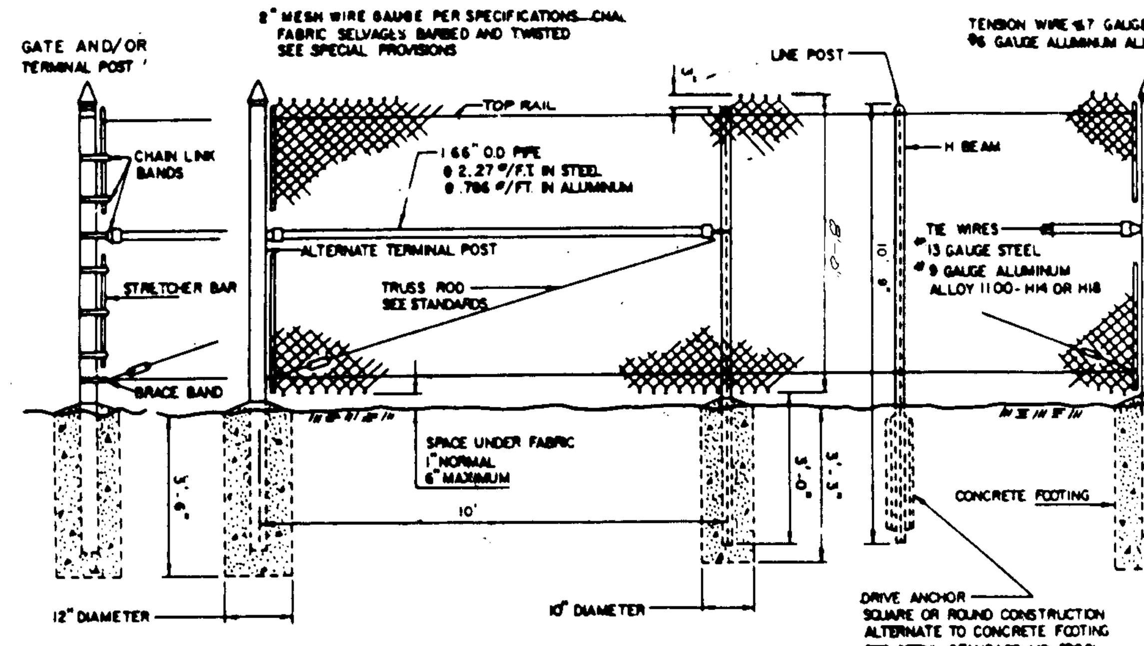
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA: RECORD PLAT REFERENCE NO 7050
VILLAGE OF HICKORY RIDGE
SECTION 3, AREA 13, LOT 152 PARCEL O-1
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MD

TITLE: GRADING AND SEDIMENT CONTROL PLAN

Des By JP	Scale 1" = 30'	Proj No 88-030
Drn By [illegible]	Date DEC ?, 1988	Drawing No
Chk By DDS	Approved JRH	2 OF 7

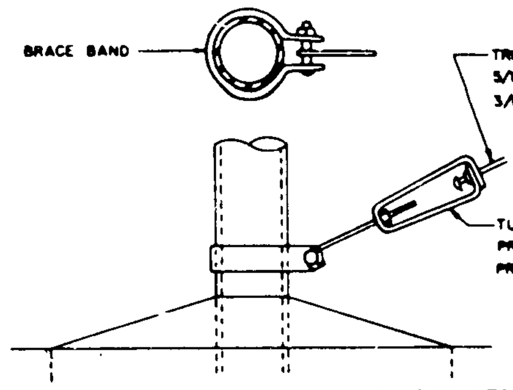
SDP-89-125



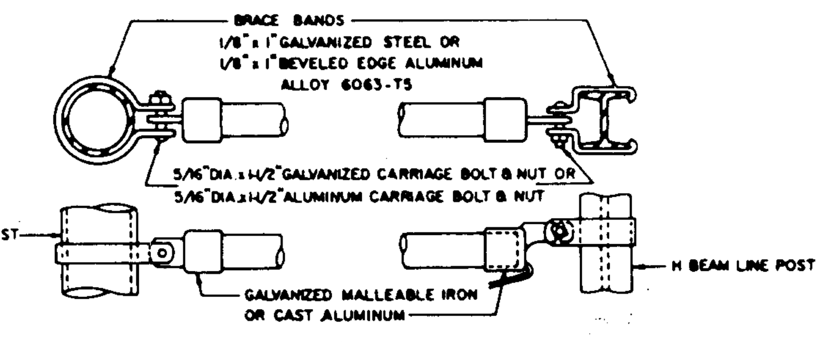
ALL POSTS (TERMINAL AND LINE) TO BE SAME LENGTH (L).

TENSION WIRE CLIP AT 18" ± C/C
12-1/2 GA. GALVANIZED STEEL WIRE
.110" ALUMINUM WIRE ALLOY 5056-H38

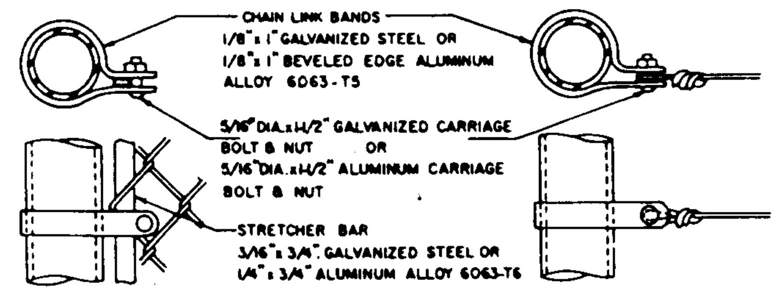
11 GAUGE VINYL CLAD STEEL SHALL BE COLORED BROWN UNLESS OTHERWISE SPECIFIED.



TRUSS BRACE ATTACHMENT FOR ROUND CONSTRUCTION

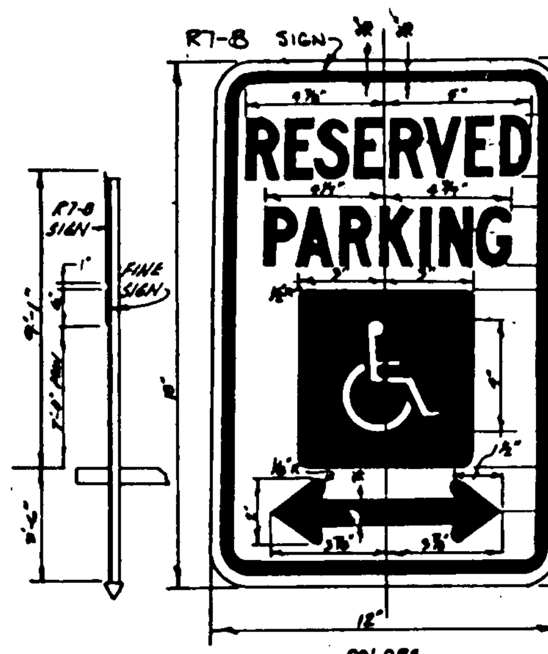


BRACE RAIL ATTACHMENT FOR ROUND CONSTRUCTION



STRETCHER ROD ATTACHMENT

ATTACHMENT FOR BARB WIRE OR TENSION WIRE



$50 FINE

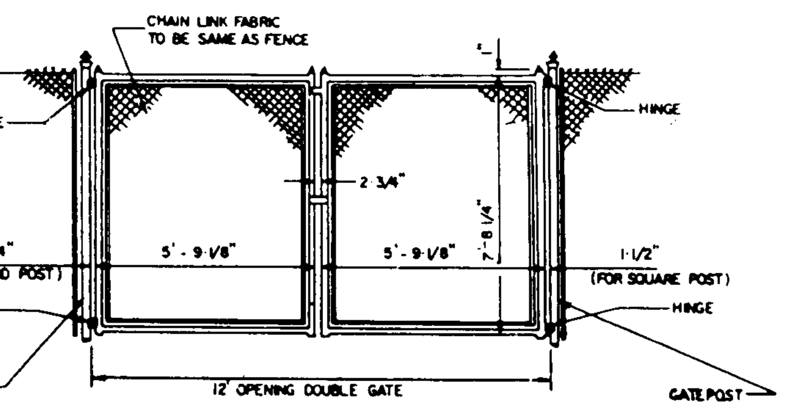
SIGN TO UTILIZE AN ALUMINUM BLANK 6"x12"x0.080 INCH THICK WITH TWO (2) SINGLE POST MOUNTING HOLES. THE TEXT AND BORDER SHALL BE STANDARD GREEN TO MATCH THE R7-8 RESERVED PARKING SIGN AND THE BACKGROUND SHALL BE REFLECTIVE WHITE. THE TEXT SHALL BE 3" CHARACTERS.

MOUNTING:

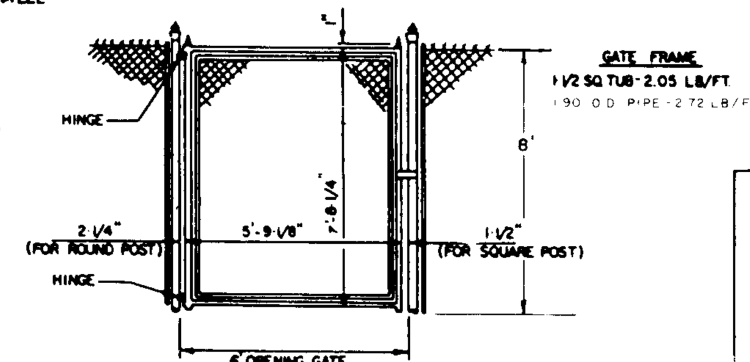
THE ABOVE FINE SIGN SHALL BE MOUNTED UNDERNEATH THE BELOW R7-8 RESERVED PARKING SIGN. THE BOTTOM EDGE SHALL BE NO LESS THAN 7 FEET ABOVE GROUND. IF THE SIGN IS PLACED AGAINST A BUILDING, STRUCTURE OR OTHER LOCATION WHERE VEHICLE OR PEDESTRIAN TRAFFIC IS NOT OBSTRUCTED, THE BOTTOM EDGE OF THE SIGN SHALL BE AT LEAST 6 FEET, BUT NO MORE THAN 10 FEET ABOVE GROUND. BECAUSE THIS IS IN ADDITION TO EXISTING SIGN INSTALLATIONS, SOME ADJUSTMENT IN HEIGHT WILL BE NECESSARY.

COLORS
LEGEND AND BORDER - GREEN
WHITE SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE

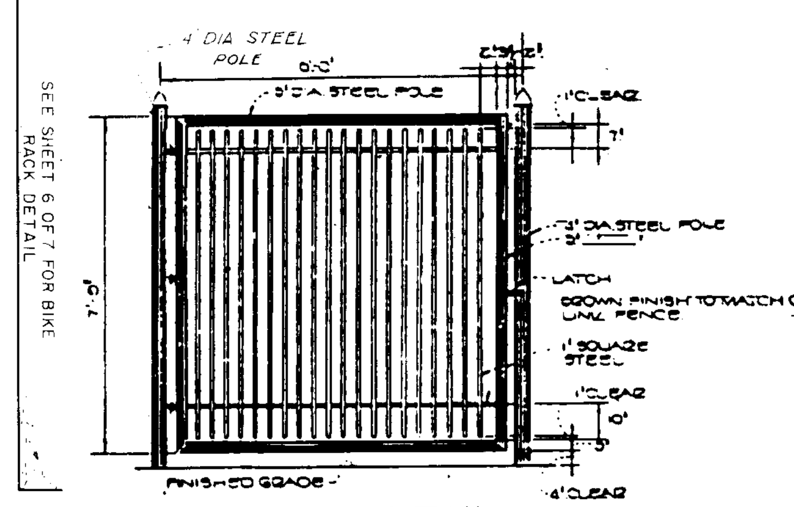
HANDICAP SIGN DETAIL
NOT TO SCALE



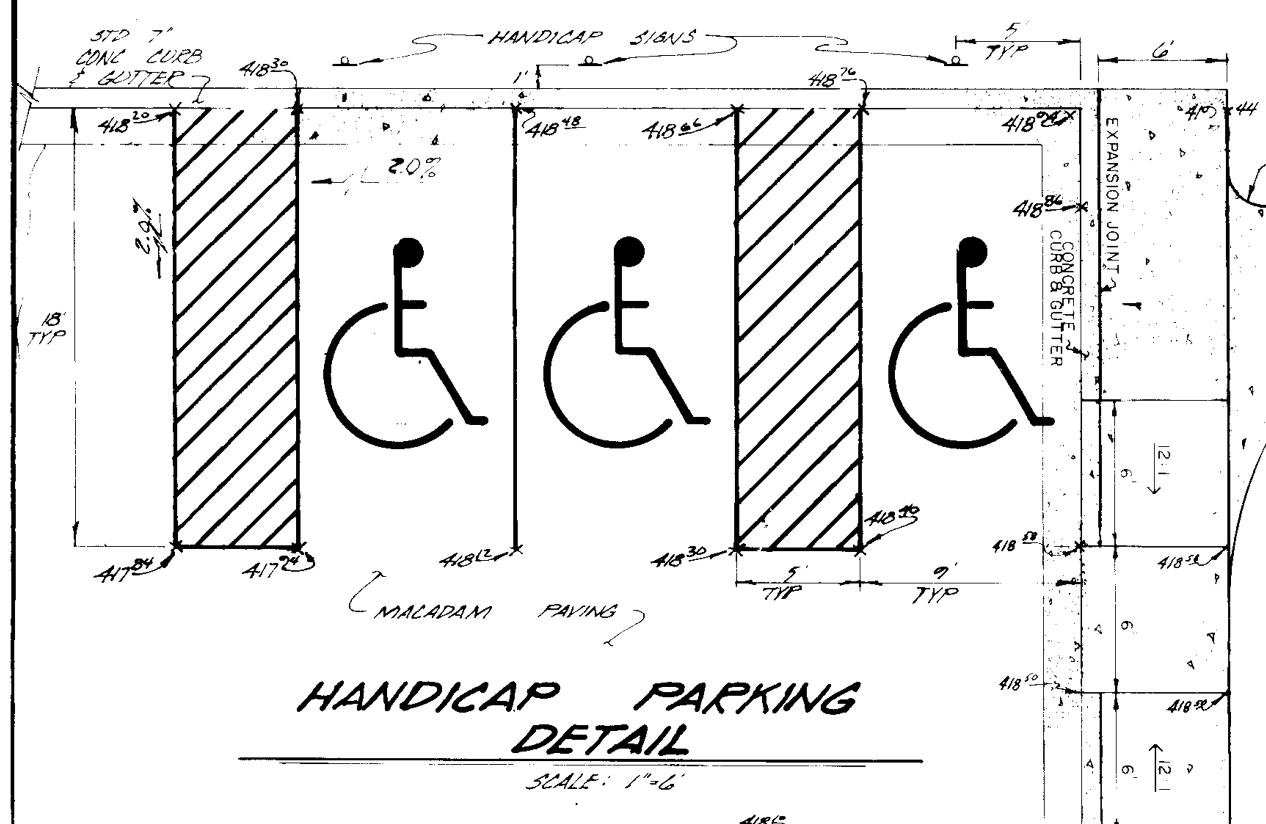
12' OPENING DOUBLE GATE



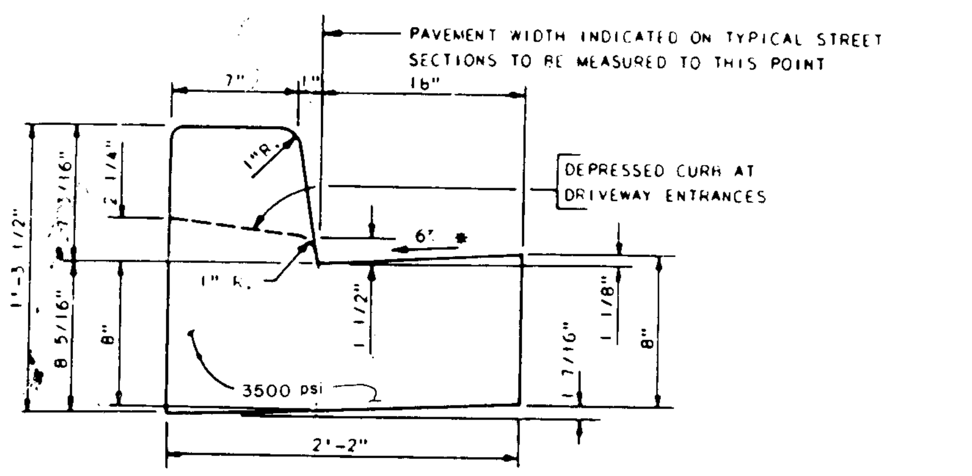
6' OPENING GATE



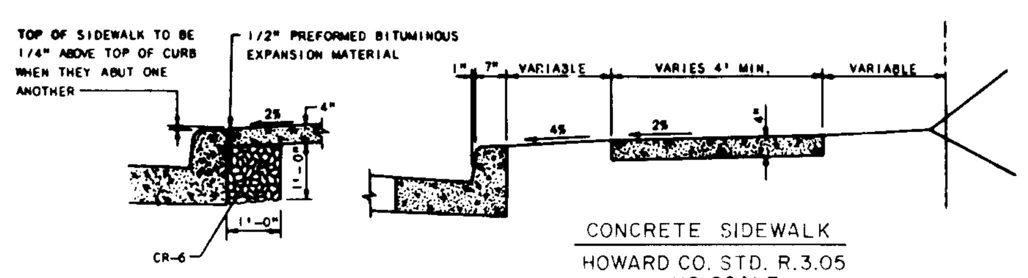
MAIN GATE DETAIL
NOT TO SCALE



HANDICAP PARKING DETAIL
SCALE: 1"=6'



STANDARD 7" COMBINATION CURB AND GUTTER



DETAIL A

CONCRETE SIDEWALK
HOWARD CO. STD. R.3.05
NO SCALE

NOTES:
1. SIDEWALK TO BE SCRIBED IN 5' MAXIMUM SQUARES.
2. EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO BE MORE THAN 15' APART.
3. 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.
4. CONCRETE TO BE MIX NO.2 (3000 Psi)
5. WHEN SIDEWALK ABUTS CURB, WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL. BETWEEN SIDEWALK AND CURB AND RESTING ON A COMPACTED CRUSHED STONE BASE. SEE DETAIL A THIS SHEET.
6. ON LONGITUDINAL SIDEWALK GRADES OF 5% OR GREATER, A CONCRETE HEADER, 6" THICK AND 6" DEEP BELOW THE NORMAL 4" SIDEWALK THICKNESS SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE SIDEWALK AT INTERVALS OF 48 FEET. THE HEADERS SHALL BE PLACED AT EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

Definition

Stabilizing sediment producing areas by establishing long-term stands of grass with sod.

Purpose

To stabilize the soil; reduce damage from sediment and runoff to downstream areas; enhance natural beauty.

Conditions Where Practice Applies

On exposed soils where a quick vegetative cover is desired; on sites which can be maintained with ground equipment (2:1 or flatter slopes).

SPECIFICATIONS

1. Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
4. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
5. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved prior to its installation.

I. Site Preparation

Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

A. Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.

B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all soils 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.

C. All areas receiving sod shall be uniformily fine graded. Hard-packed earth shall be scarefied prior to placement of sod.

II. Sod Installation

A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.

B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.

C. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved methods.

D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

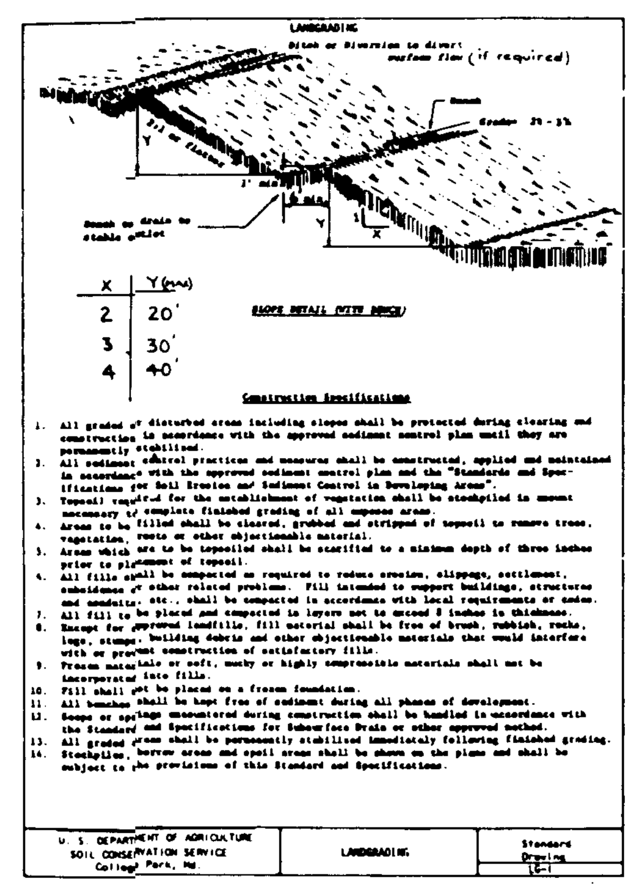
III. Sod Maintenance

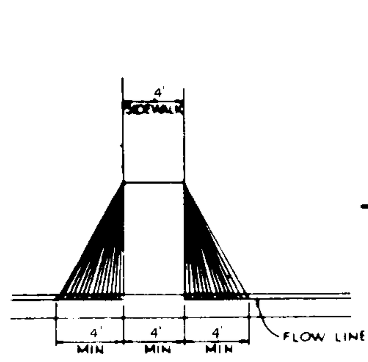
A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done during the heat of the day to prevent wilting.

B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment.

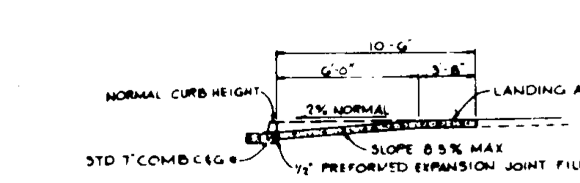
C. First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

D. Maintenance of established sod should follow specifications outlined in table 54-1.





HANDICAP RAMP
No Scale

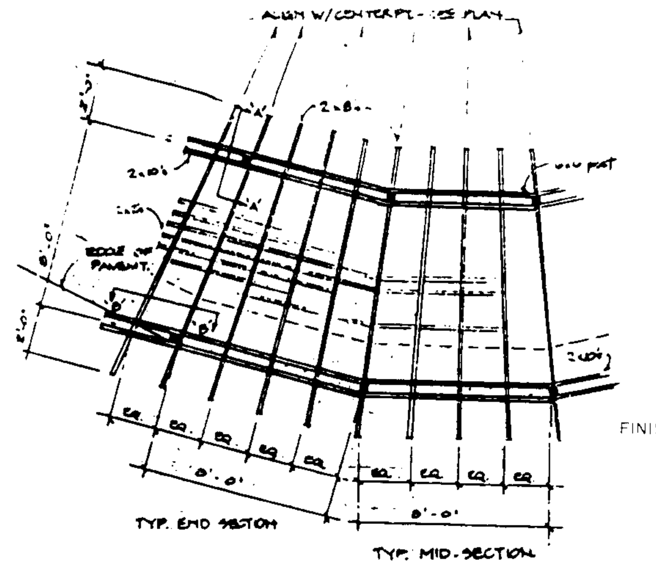


RISE NO GREATER THAN 1" VERT IN 12" HORZ

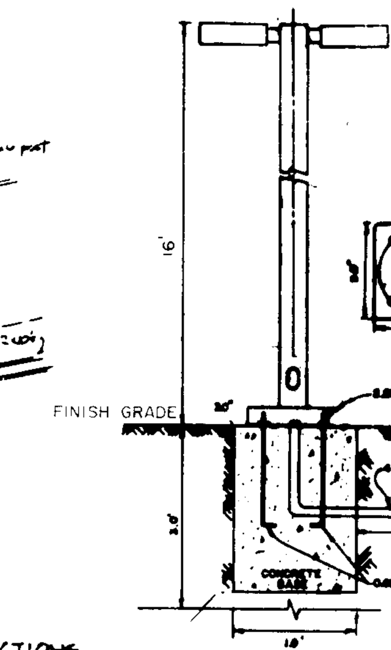
SURFACE TEXTURE OF CONCRETE RAMP SHALL BE COARSE BROOMING OR OTHER NON-SKID TYPE FINISH

* STANDARD 7" COMBINATION CURB AND GUTTER IS SHOWN. DETAILS TO BE SIMILAR FOR MOD CURB AND GUTTER AND BIT CURB EXCEPT THAT FLOW LINE LIP IS TO BE OMITTED

SECTION



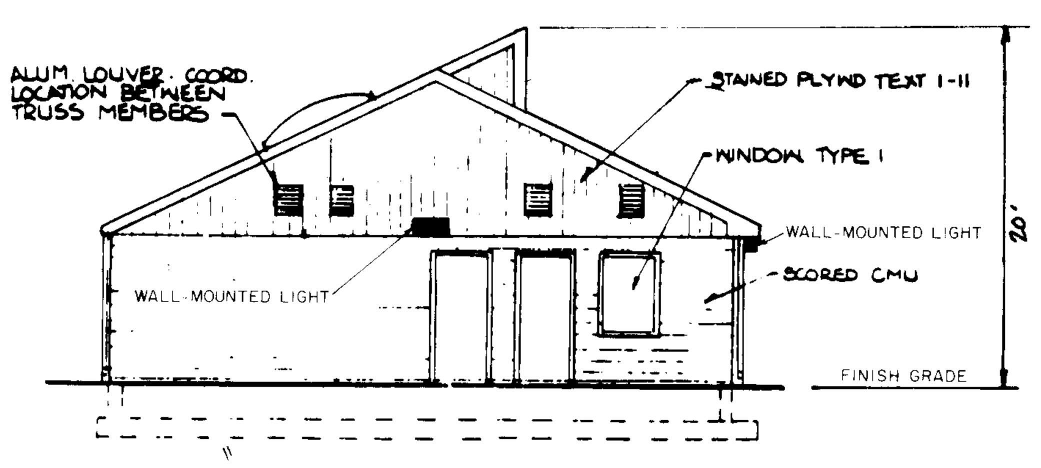
FRAMING PLAN - TRELLIS
WADING POOL - TYP. END & MID-SECTIONS
1/4" = 1'-0"



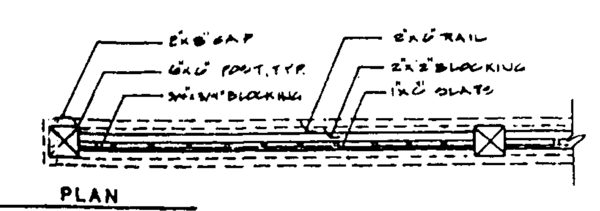
LIGHTING DETAIL
(NOT TO SCALE)

BITUMINOUS CONCRETE SURFACE	1"
BITUMINOUS CONCRETE BASE	2"
* 5" CRUSHER RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE	*

PAVING SECTION
NOT TO SCALE

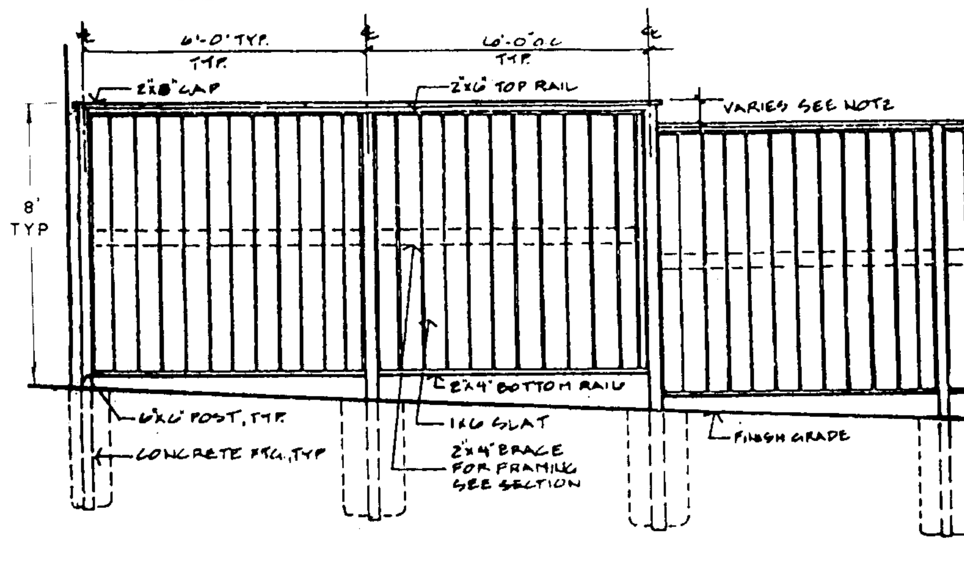


WEST ELEVATION BATH HOUSE
NOT TO SCALE



PLAN

NOTE:
STEP TOP OF FENCE ELEV. AT 6x6 POST AS REQ. (A MIN. OF 6", MAX. 12", TYP.)



ELEVATION

WOOD SCREEN FENCE
N.T.S.

BY THE ENGINEER:
"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] 12-23-88
ENGINEER: JOHN HEINRICHS DATE

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
[signature] 4/12/89
DEVELOPER DATE

4-12-89
LKS

7-18-89
Date
Professional Engr. No. 14920

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
[signature] 7/21/89
US CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[signature] 7/21/89
HOWARD S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[signature] 8/28/89
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[signature] 9.5.89
PLANNING DIRECTOR DATE
[signature] 8/24/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE
LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[signature] 8/25/89
DIRECTOR DATE
[signature] 8.14.89
CHIEF, BUREAU OF ENGINEERING DATE

Date	No	Revision Description
4/17/89	2	PER HOWARD CO. COMMENT DDS/RHL
2/14/89	1	PER COMMENTS HO. CO./M.C.C. JP/MAG

OWNER/DEVELOPER

HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PKWY.
COLUMBIA, MARYLAND 21044

COLUMBIA ASSOCIATION
SUITE 400
ONE KNOLL NORTH
COLUMBIA, MARYLAND 21045

CLARY'S FOREST NEIGHBORHOOD POOL

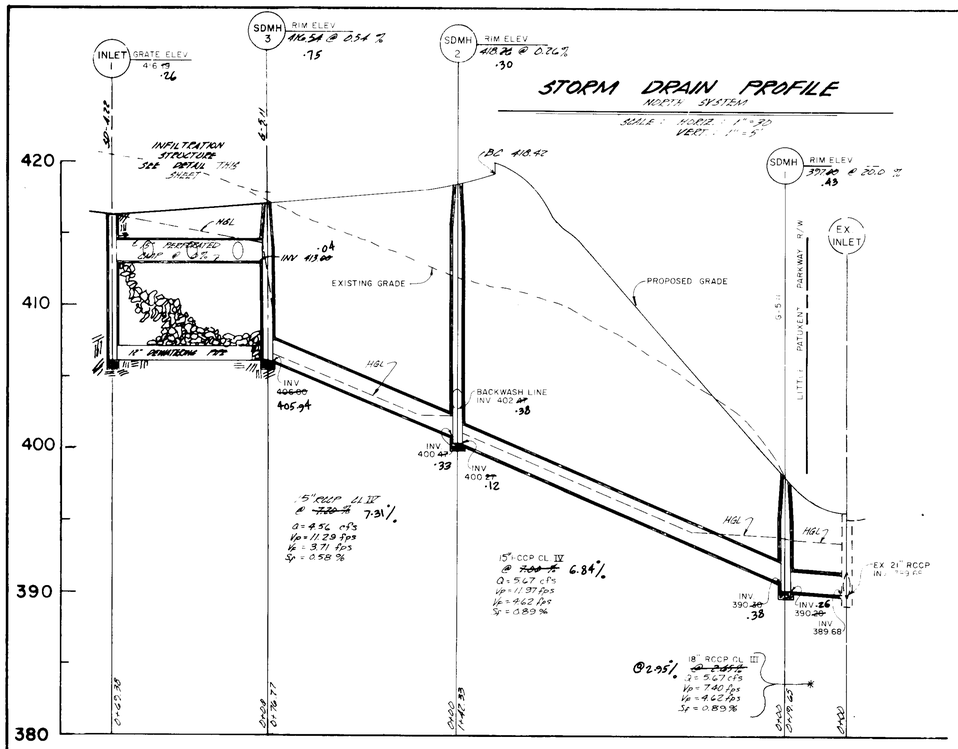
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

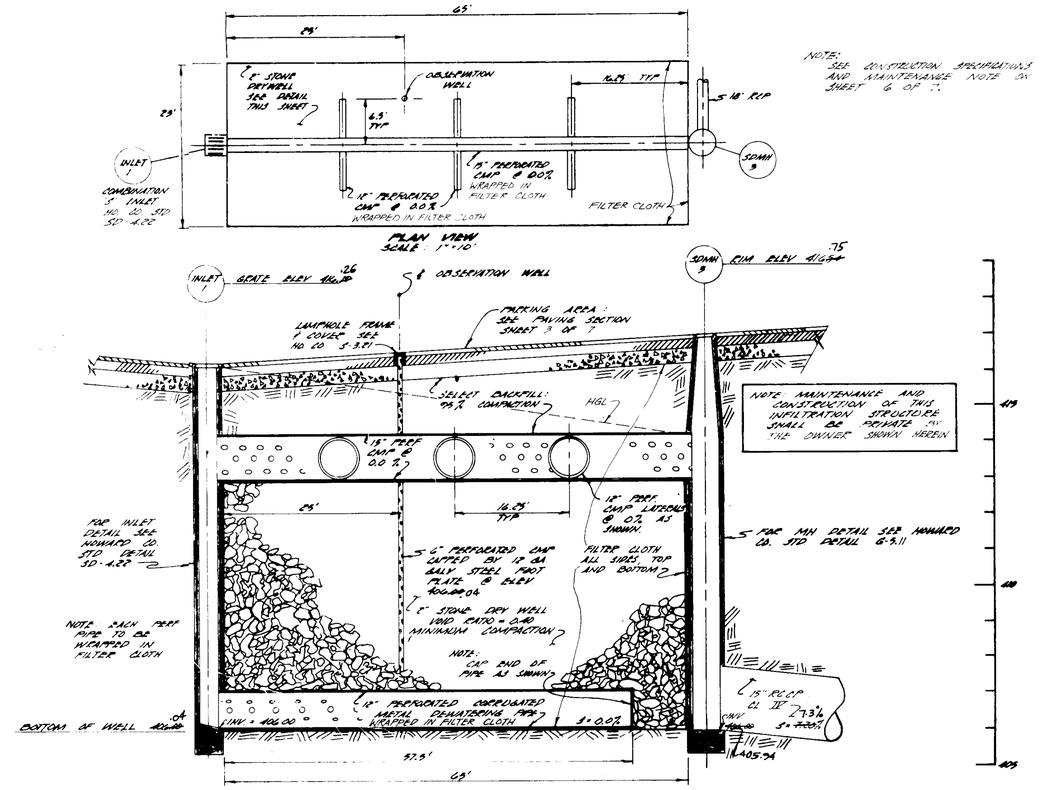
AREA
RECORD PLAT REFERENCE #7050
VILLAGE OF HICKORY RIDGE
SECTION 3 - AREA 13 LOT 152 - PARCEL O-1
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
DETAIL SHEET

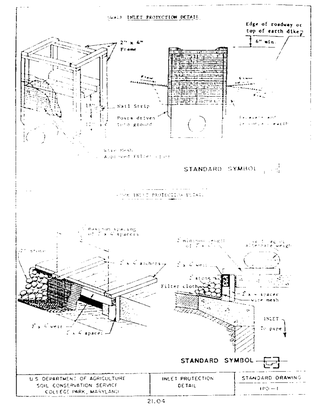
Des By JP	Scale AS SHOWN	Proj No 88-030
Drn By MAG	Date 12-23-88	Drawing No.
Chk By DDS	Approved JRH	3 OF 7

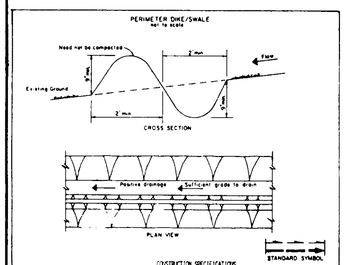
SDP-89-125





NOTE: SEE CONSTRUCTION SPECIFICATIONS AND MAINTENANCE NOTE ON SHEET 6 OF 7.

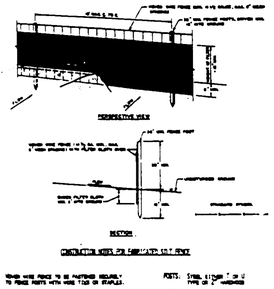




CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 15 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

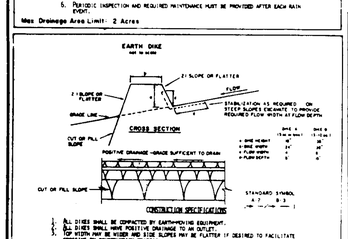
Max Drainage Area Limit: 2 Acres



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. THE TWO SECTIONS OF FILTER CLOTH SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL STAKES TYPE OR T-SECTIONS
FENCE: WOVEN WIRE, 14 GA. 6" MIN. TIE SPACING
FILTER CLOTH: FILTER FABRIC (MIRAFI 140N, STABEX 45, OR EQUIVALENT) OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

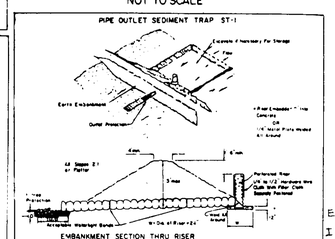
1. ALL DIKES SHALL BE COMPACTED BY EARTHMOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. DIVERTED RUNOFF FROM UNDISTURBED SITE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION EQUIPMENT.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SITE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR BASIN, EXCEPT WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND MULCH OR SOD AND STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	TYPE A	TYPE B
1	0-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR SOD; OR STONE
3	5.1-8.0%	SOD WITH JUTE, OR SOD; STONE	LINED RIP-RAP 8-12"
4	8.1-20%	LINED RIP-RAP 8-12"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES THICK AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT TRAVELING ACROSS THE DIKE.
B. RIP-RAP TO BE 8-12 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. ACCEPTABLE EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

Max. Drainage Area: 5 Acres



SIZES OF PIPE NEEDED

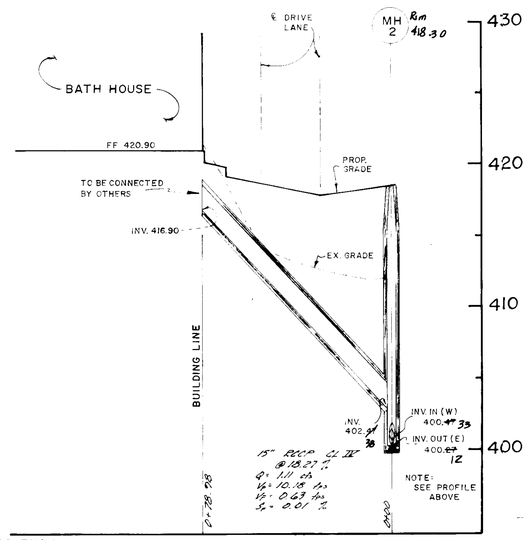
Barrel Diameter _____

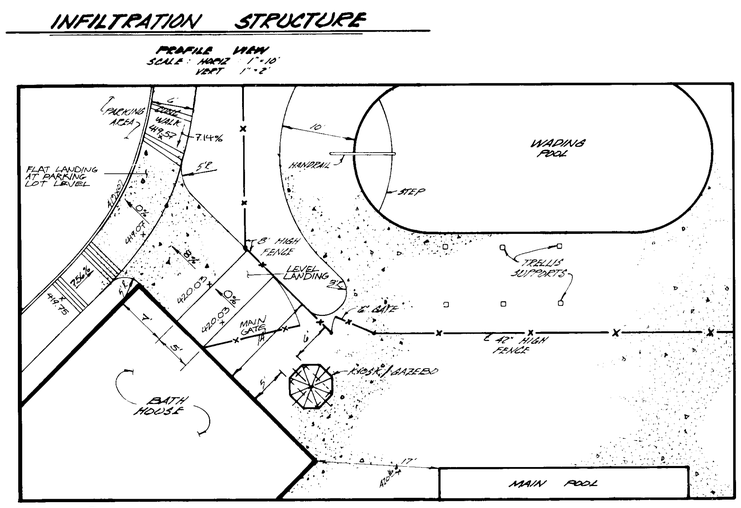
Riser Diameter _____

Note:

For Construction Specification see sheet 16.08

Max. Drainage Area: 5 Acres





AS-BUILT ENGINEER'S CERTIFICATE

I hereby certify that the storm drain and stormwater management facilities shown on this plan were constructed as shown on "as built plan" and meet the approved plans & specifications

Mike Seghi
P.E. 13810
NOV. 8, 1993

Seghi & Associates, Ltd.
3277 CORPORATE CT.
ELLICOTT CITY, MD. 21043
(410) 750-9003

Date	No.	Revision Description
3-15-90	3	REVISED CONC. ENTRANCE M.C.R.

BY THE ENGINEER:

"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."

ENGINEER: JOHN HEINRICHS — DATE 7-18-89

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER — DATE

4-12-89
LKS

7-18-89
Date

Professional Engr. No. 14920

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. CONSERVATION SERVICE — DATE 7/21/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD S.C.D. — DATE 7/21/89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 8/28/89

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 9.5.89

CHIEF, DIVISION OF COMUNITY PLANNING AND LAND DEVELOPMENT — DATE 8/23/89

LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8.25.89

CHIEF, BUREAU OF ENGINEERING — DATE 8-14-89

Date	No	Revision Description
4/17/89	2	PER HOWARD CO. COMMENTS DCS/JRH
8/14/89	1	HOWARD CO. & METRO. CONT. CO. SP-720

OWNER/DEVELOPER

HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY 10275 LITTLE PATUXENT PKWY. COLUMBIA, MARYLAND 21044

COLUMBIA ASSOCIATION 10275 LITTLE PATUXENT PKWY. CHR. SCHOOL NORTH COLUMBIA, MARYLAND 21044

CLARY'S FOREST NEIGHBORHOOD POOL

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA: RECORD PLAT REFERENCE #7050 VILLAGE OF HARPER'S FERRY SECTION 5 - AREA 13 LOT 152 - PARCEL 'D-1' 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DETAIL SHEET

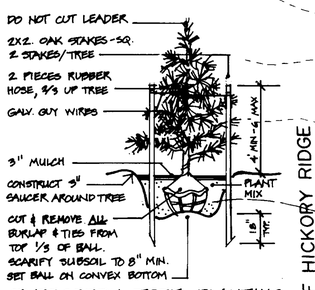
Des By JP	Scale AS SHOWN	Proj No 88-030
Drn By MAB	Date 12/29/88	Drawing No. 4 OF 7
Chk By DCS	Approved JRH	

SDP-89-125

SYMBOL	QUAN.	PLANT NAMES	SIZE	CONDITION	REMARK
	19	ACER RUBRUM RED MAPLE	2½-3" CAL. 14'-16' HT.	B&B	
	4	CRATAEGUS VIRDIS 'WINTER KING' WINTER KING HAWTHORN	2-2½" CAL. 8'-10' HT.	B&B MATCHED	
	13	MAGNOLIA X SOULANGIANA SAUCER MAGNOLIA	8'-10' HT.	B&B TREE FORM	HVY.
	18	PICEA ABIES NORWAY SPRUCE	5'-6' HT.	B&B	10'-12' O.C.
	30	PINUS STROBUS WHITE PINE	6'-8' HT.	B&B FULL	10'-12' O.C.
	9	PINUS STROBUS WHITE PINE	8'-10' HT.	B&B FULL	10'-12' O.C.
	6	PLATANUS X ACERIFOLIA LONDON PLANE TREE	2-2½" CAL. 12'-14' HT.	B&B	
	10	QUERCUS PALUSTRIS PIN OAK	2-2½" CAL 12'-14' HT.	B&B	
	43	EUONYMUS ALATA COMPACTA COMPACT BURNING BUSH	24-30" HT.	B&B	5' O.C.
	17	TAXUS X MEDIA 'PENSIFORMIS' PENSIFORMIS YEW	24-30" HT.	B&B	3' O.C.

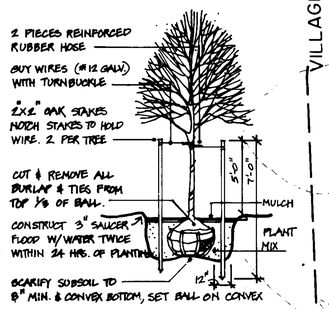
NOTE:

1. ALL PLANTS TO BE LOCATED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL SEED OR SOD ALL DISTURBED AREAS. ALL AREAS WITHIN FENCES TO BE SOD.
3. THE CONTRACTOR SHALL CALL 'MISS UTILITY' (1-800-257-7777) A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION/PLANTING.
4. GROUND LINE FOR ALL PLANT MATERIAL SHALL BE THE SAME AS IN NURSERY.
5. NOTIFY LAND ARCH/OWNER 48 HRS. TO PLANTING



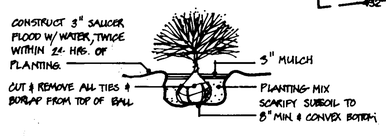
EVERGREEN TREE PLANTING

NO SCALE



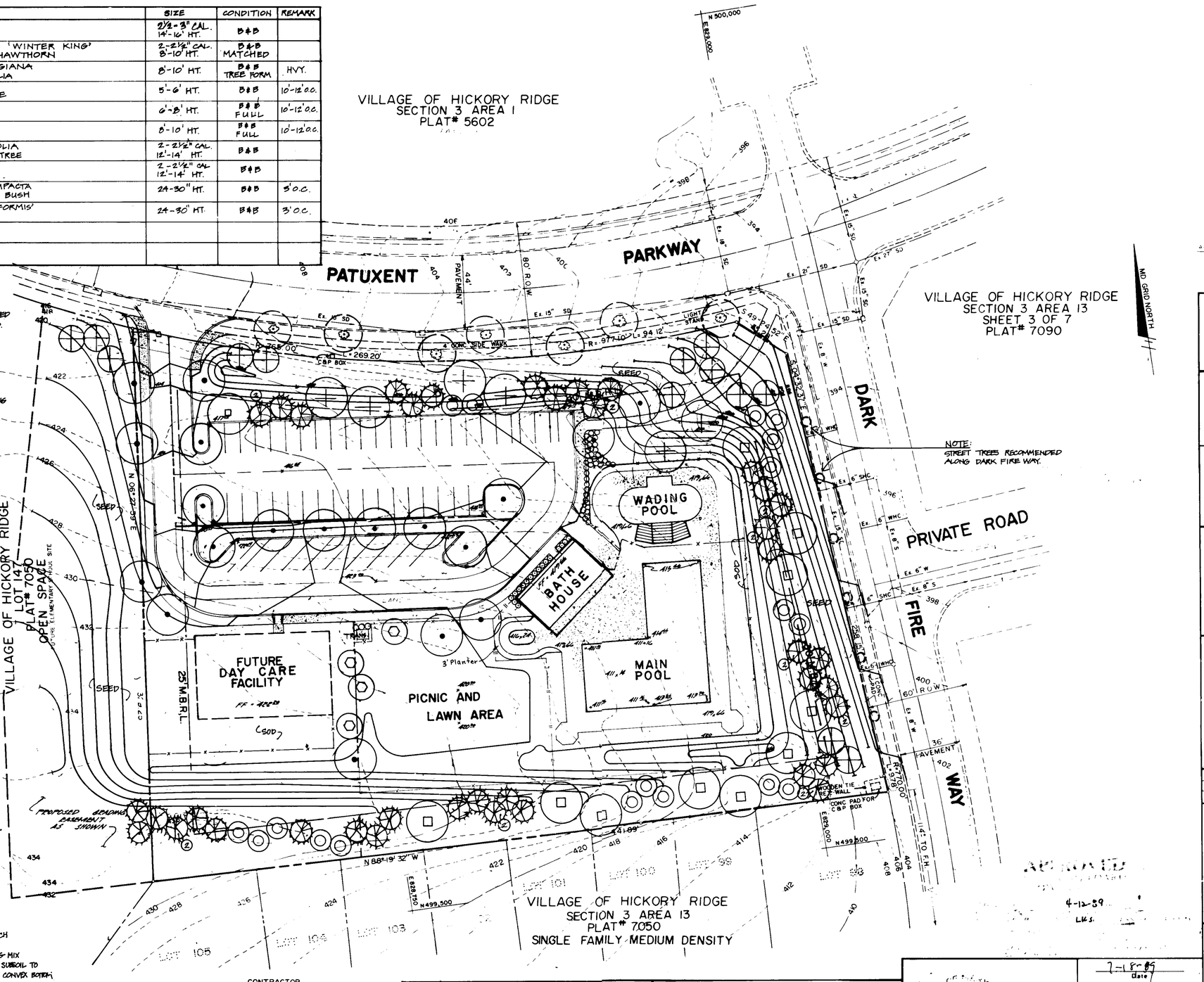
DECIDUOUS TREE PLANTING

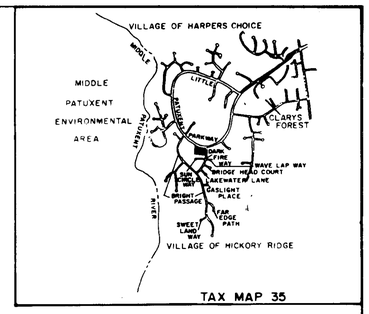
NO SCALE



SHRUB PLANTING DETAIL

NO SCALE





VICINITY MAP

SCALE 1" = 2000'

AREA TABULATION
PARCEL "O" 0.47 AC. ZONED COMMERCIAL
OPEN SPACE 2.9 AC. ZONED OPEN SPACE
TOTAL AREA 3.36 AC

REVIEWED FOR HOWARD COUNTY S C D

AND MEETS TECHNICAL REQUIREMENTS

James M. Helm 7/21/89
U.S. CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

7/21/89
HOWARD S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

8/28/89
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

9.5.89
PLANNING DIRECTOR DATE

8/29/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVLOPMENT DATE

LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

8/25/89
DIRECTOR DATE

8-14-89
CHIEF, BUREAU OF ENGINEERING DATE

Date	No	Revision Description
5-12-89		Revises planting per HRD cw/CHS
4-17-89	2	PER HOWARD CO. COMMENTS DDS/RHL

OWNER/DEVELOPER

HOWARD REASEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PKWY
COLUMBIA, MARYLAND 20144
PARCEL 'O'

COLUMBIA ASSOCIATION
SUITE 400, ONE KNOLL NORTH
COLUMBIA, MARYLAND 21045
(301) 730-2616
LOT 146

CLARY'S FOREST NEIGHBORHOOD POOL

CONTRACTOR

METROPOLITAN CONTRACTING CO.
6813 GOLDEN RING ROAD
BALTIMORE, MARYLAND 21237
(301) 575-7515

BY THE ENGINEER:

"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."

ENGINEER: JOHN HEINRICHS 7-18-89
DATE

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

DEVELOPER 8/21/89
DATE

STATE OF MARYLAND RICHARD A. ARNOLD JR. ARCHITECT

7-18-89
Date

Professional Engr No 14920

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

ADDRESS CHART	
LOT NO.	ADDRESS
PARCEL "O"	11615 LITTLE PATUXENT PARKWAY

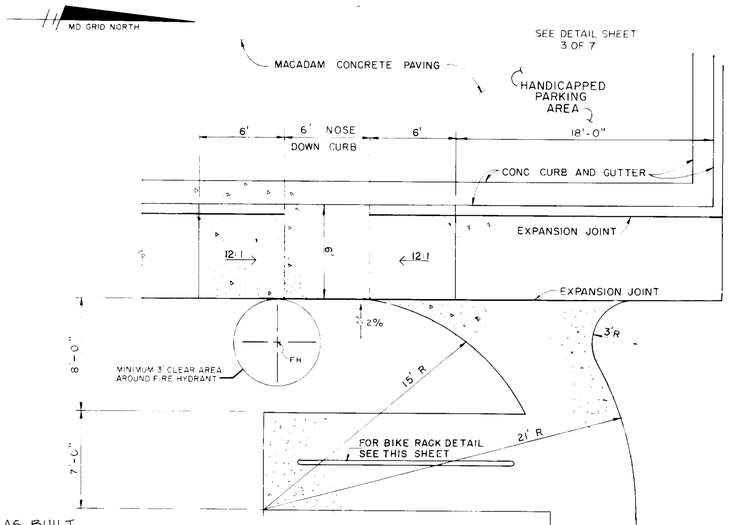
SUBDIVISION NAME			SECT./AREA	LOT/PARCEL NO.
VILLAGE OF HICKORY RIDGE			3/13	152 PARCEL O-1
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE-MAP	ELECT. DIST.	CENSUS TR.
	9	OPEN SPACE	35	5	6053.01
WATER CODE			SEWER CODE	
E-27			6592000	

AREA: RECORD PLAT REFERENCE NO. 7050
VILLAGE OF HICKORY RIDGE
SECTION 3, AREA 13, LOT 152 PARCEL O-1
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MD

TITLE: LANDSCAPE PLAN

Des By JP	Scale 1" = 30'	Proj No 88-030
Drn By MAG	Date DEC. 23, 1988	Drawing No. 3 OF 7
Chk By DDS	Approved JRH	

SDP-89-125

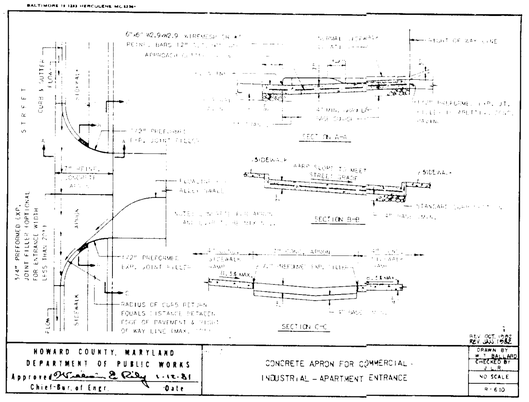


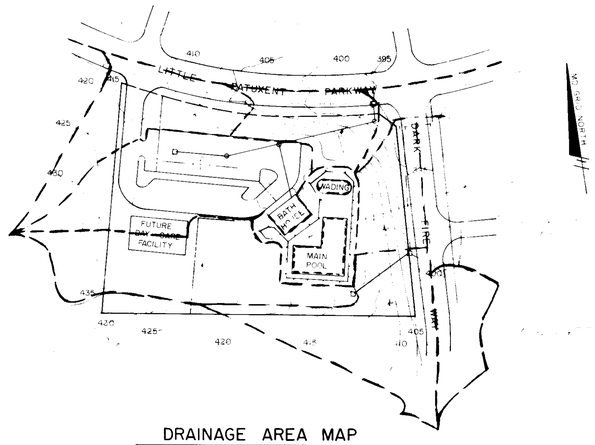
PLAN VIEW

SCALE 1" = 5'

AS-BUILT
ENGINEER'S CERTIFICATION
I hereby certify that the storm drain facility shown on this plan was constructed as shown on "as built plan" and meet the approved plan & specifications.

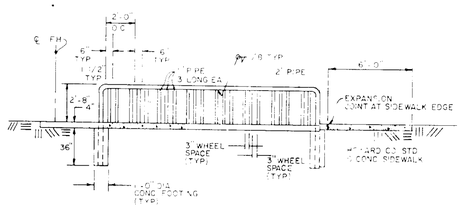
REGISTERED PROFESSIONAL ENGINEER
Mike Sodyar P.E. 13816
11-8-93
Sodyar & Associates Ltd.
3217 Corporate Ct.
Ellicott City, Md. 21043
(410) 750-9003





DRAINAGE AREA MAP

SCALE 1" = 100'



BIKE RACK DETAIL

NOT TO SCALE

NOTES

1. RACK TO BE CONSTRUCTED OF SCH 40 STEEL PIPE PAINTED BROWN TO MATCH FENCE BY MANUFACTURER'S RECOMMENDATIONS
2. CAPACITY 16 BICYCLES
3. DRILL UNDERSIDE OF FRAME TO ACCEPT 1" PIPES WELD IN PLACE AS SHOWN EACH PIPE SHOULD EXTEND TO BOTTOM OF PAD (APPROX 3' LONG EACH)

DRYWELL
CONSTRUCTION SPECIFICATIONS

1) BEFORE THE ENTIRE DEVELOPMENT SITE IS GRADED, THE AREA PLANNED FOR THE DRYWELL SHOULD BE ROPED OFF TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE UNDERLYING SOILS.

2) DIVERSION BERMS SHOULD BE PLACED AROUND THE UPSTREAM PERIMETER OF THE DRYWELL DURING ALL PHASES OF CONSTRUCTION. CONSTRUCTION OF THE TRENCH SHOULD NOT BEGIN UNTIL THE ENTIRE SITE IS COMPLETELY STABILIZED.

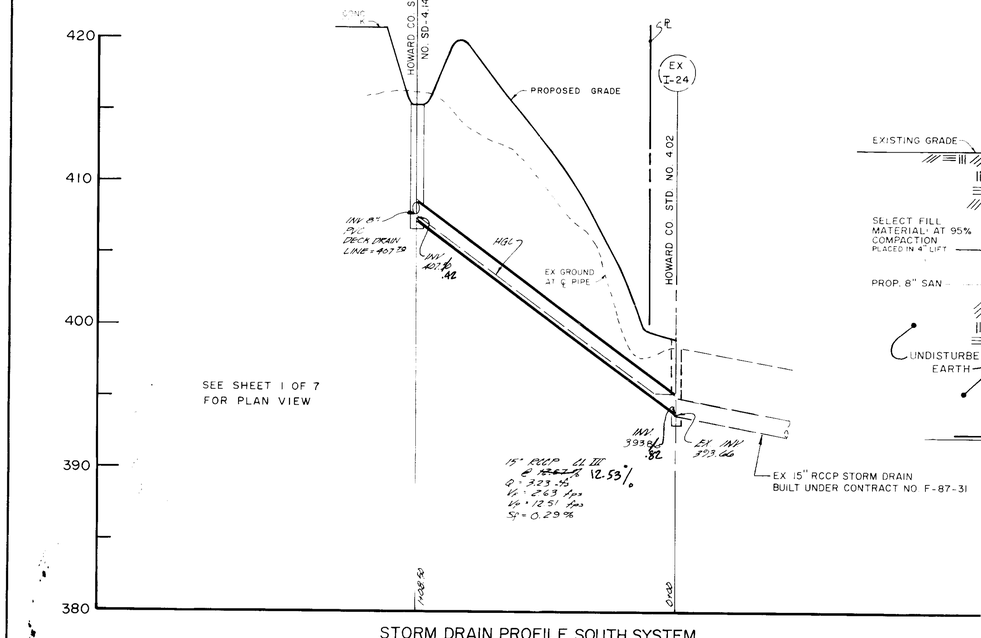
3) THE TRENCH SHOULD BE EXCAVATED USING A BACKHOE OR TRENCHER EQUIPPED WITH TRACKS OR OVERSIZED TIRES. NORMAL RUBBER TIRES SHOULD BE AVOIDED. EXCAVATED MATERIAL SHOULD BE STORED AT LEAST 10 FEET FROM THE TRENCH TO AVOID BACKSLIDING AND CAVE-INS.

4) ONCE THE TRENCH IS EXCAVATED, THE BOTTOM AND SIDES OF THE STONE RESERVOIR SHOULD BE LINED WITH FILTER CLOTH TO PREVENT UPWARD PIPING OF UNDERLYING SOILS. THE FABRIC SHOULD BE PLACED FLUSH WITH THE SIDE AND BOTTOM WITH A GENEROUS OVERLAP AT THE SEAMS.

5) CLEAN, WASHED 1-2 INCH STONE AGGREGATE SHOULD BE PLACED IN THE EXCAVATED RESERVOIR IN LIFTS, AND LIGHTLY COMPACTED WITH PLATE COMPACTORS TO FORM THE COARSE BASE.

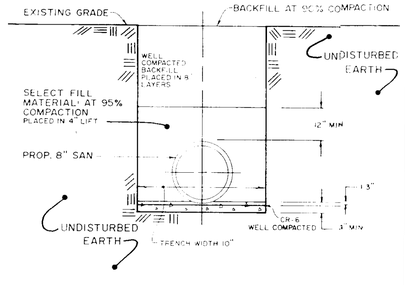
6) THE OBSERVATION WELL SHOULD BE CONSTRUCTED AS SHOWN HEREIN.

7) SEDIMENT CONTROL IN THE FORM OF INLET PROTECTION SHOULD BE PROVIDED UPON COMPLETION OF THE DRYWELL.



STORM DRAIN PROFILE SOUTH SYSTEM

SCALE HORZ 1"=50
VERT 1"=5



BEDDING DETAIL

NOT TO SCALE

STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE	NORTHING	EASTING	INV IN	INV OUT	RIM ELEV	DETAIL NO.
I-1	499769.6552	828711.6384	—	413.~~00~~ .04	416.~~48~~ .26	SD-4.22
EX INLET N	499831.7149	828992.3663	389.68	—	—	SD-4.02
I-2	499564.1992	828955.3557	407.70	407.~~50~~ .12	415.~~46~~ .34	SD-4.14
EX I-24	499626.8569	829043.9375	393.~~86~~ .82	393.66	398.60	SD-4.02
MH 1	499812.1202	828993.8293	390.~~36~~ .38	390.~~76~~ .126	397.~~96~~ .48	G-5.11
MH 2	499779.4592	828855.3008	400.~~47~~ .39	400.~~27~~ .12	418.~~26~~ .30	G-5.11
MH 3	499761.8415	828780.5770	413.00 .04	~~406.00~~ 405.94	416.~~54~~ .75	G-5.11

MAINTENANCE SCHEDULE

INSPECTION

THE TRENCH SHOULD BE INSPECTED MONTHLY FOR THE FIRST SIX MONTHS OF OPERATION. THEN BI-ANNUALLY THEREAFTER, INSPECTIONS SHOULD BE CONDUCTED AFTER LARGE STORMS. WATER LEVELS SHOULD RECORD OVER SEVERAL DAYS IN THE OBSERVATION WELL.

SEDIMENT REMOVAL

INLETS OF UNDERGROUND TRENCHES SHOULD BE CHECKED PERIODICALLY AND CLEANED OUT WHEN SEDIMENT DEPLETES MORE THAN 10% OF THE AVAILABLE CAPACITY. THIS CAN BE DONE MANUALLY OR BY A VACUUM PUMP. OUTLET PIPES SHOULD BE CHECKED FOR CLOGGING AND VANDALISM.

4-12-89
LKS

7-18-89
Date

Professional Engr. No.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 8-28-89

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 9.5.89

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 8/25/89
LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8/25/89

CHIEF, BUREAU OF ENGINEERING — DATE 8-14-89

Date	No	Revision Description
4/17/89	2	PER HOWARD CO COMMENTS DDS/RHL

OWNER/DEVELOPER

PARCEL O-1
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PKWY
COLUMBIA, MARYLAND 21044

LOT 152
COLUMBIA ASSOCIATION
SUITE 400
ONE EXPO NORTH
COLUMBIA, MARYLAND 21045

CLARY'S FOREST NEIGHORHOOD POOL

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA
RECORD PLAT REFERENCE #5050
VILLAGE OF HICKORY RIDGE
SECTION 3 - AREA 13 LOT 152 - PARCEL O-1
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

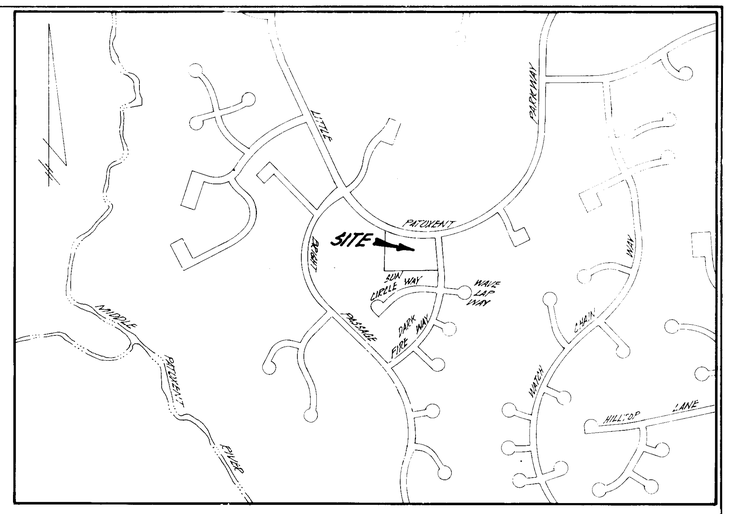
TITLE
DETAIL SHEET

Des By JP	Scale AS SHOWN	Proj No 88-030
Drn By MAG	Date 2-13-89	Drawing No. 6 OF 7
Chk By DDS	Approved JRH	

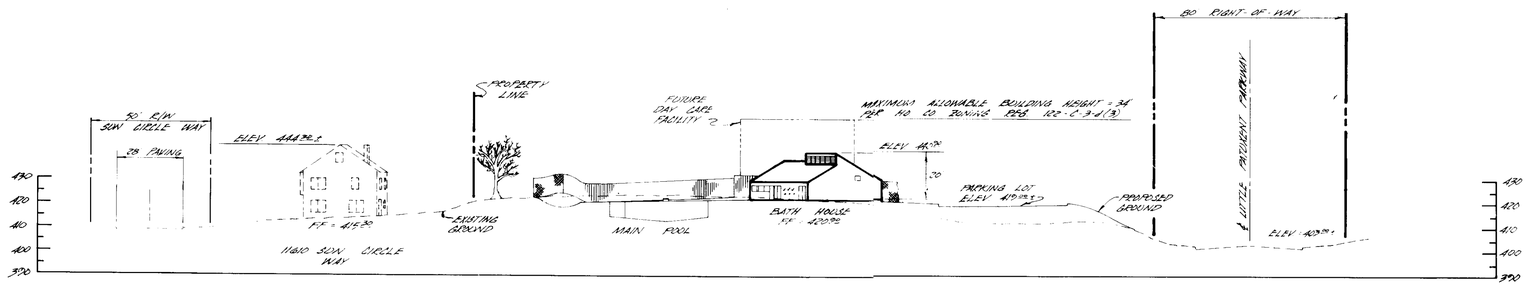
SDP-89-125

CLARY'S FOREST NEIGHBORHOOD POOL

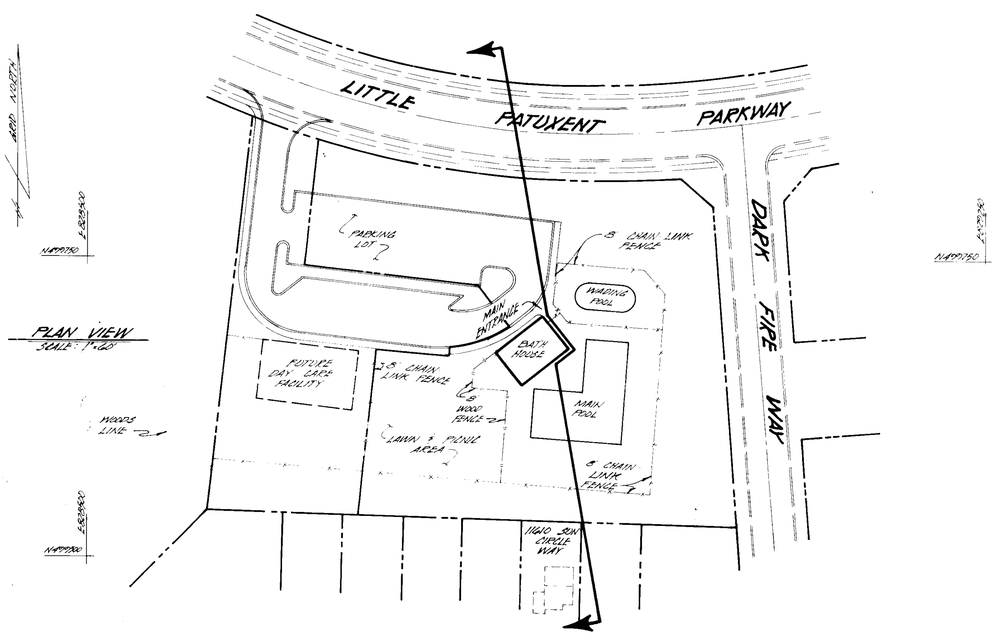
SITE CROSS-SECTION



VICINITY MAP
SCALE: 1"=600'



SECTION VIEW
SCALE: HORIZ. 1"=30'
VERT. 1"=30'



PLAN VIEW
SCALE: 1"=20'

4-12-89
LWS

7-18-89
Date

Professional Engr. No.: [illegible]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

Joyce M Boyd [illegible] 8/28/89
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[illegible] 9.5.89
PLANNING DIRECTOR DATE

[illegible] 8/29/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

LWS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[illegible] 8/28/89
DIRECTOR DATE

[illegible] 8-16-89
CHIEF, BUREAU OF ENGINEERING DATE

Date	No	Revision Description
4/17/89	2	PER HOWARD CO. COMMENTS DDS/RWL

OWNER/DEVELOPER

PARCEL D-1	LOT 152
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY 10275 LITTLE PATUXENT PKWY COLUMBIA, MARYLAND 21044	COLUMBIA ASSOCIATION SUITE 400 ONE RUTLAND NORTH COLUMBIA, MARYLAND 21045

CLARY'S FOREST NEIGHORHOOD POOL

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA
PARCEL PLAT REFERENCE #7050
VILLAGE OF HICKORY RIDGE
SECTION 3 - AREA 13 LOT 152 - PARCEL D-1
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
SITE CROSS-SECTION

Des By JP	Scale AS SHOWN	Proj No 88-030
Drn By JP	Date 8/14/89	Drawing No. 7 OF 7
Chk By DDS	Approved JPH	

SDP-89-125