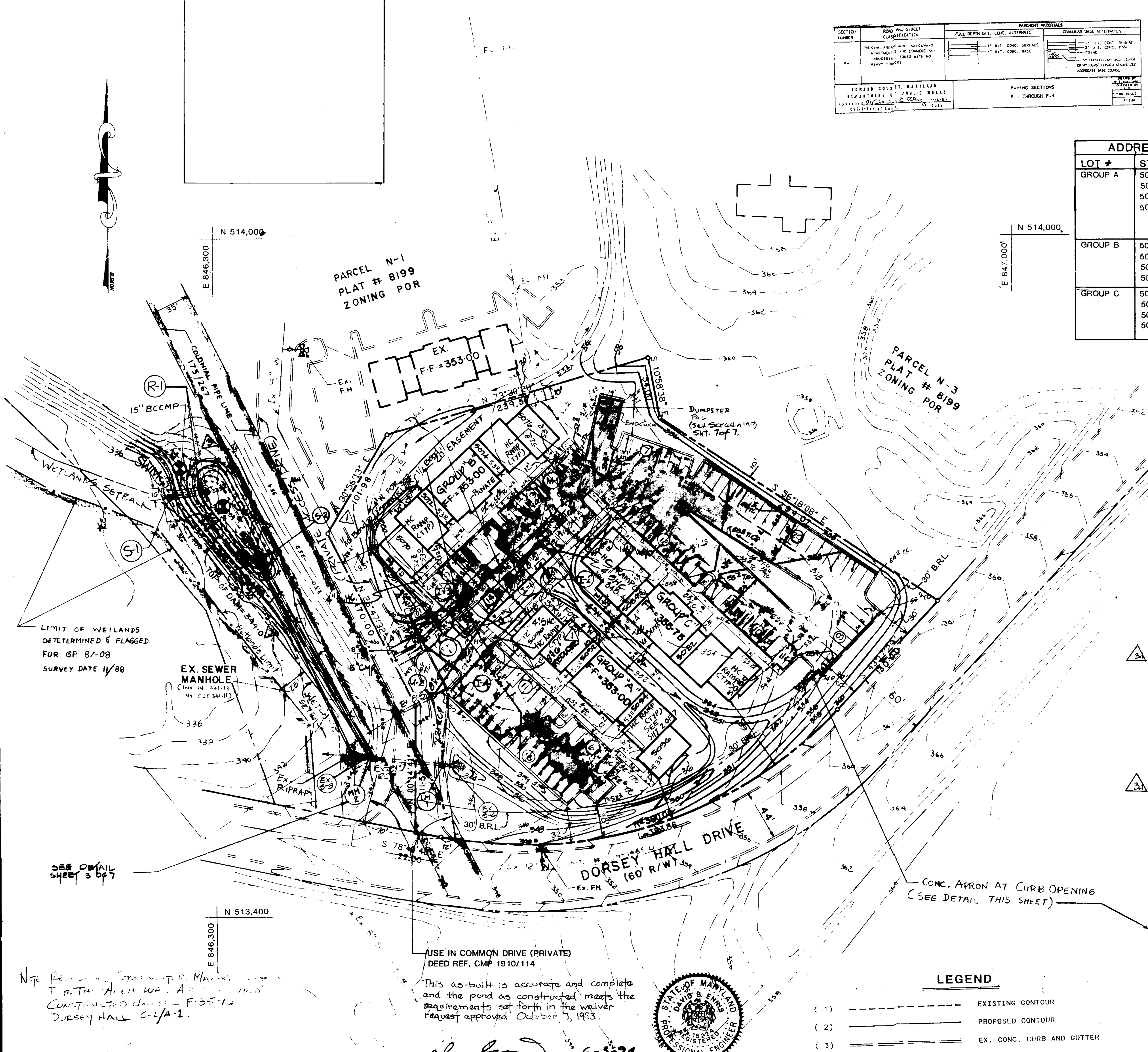
SIGNATURE BLOCK



This as-built is accurate and complete and the pond as constructed meets the requirements set forth in the waiver request approved October 7, 1993.

DAVID B. ENNIS
6-3-94
Date

STATE OF MARYLAND DAVID B. ENNIS REGISTERED PROFESSIONAL ENGINEER

PLAN

SCALE 1"=50'

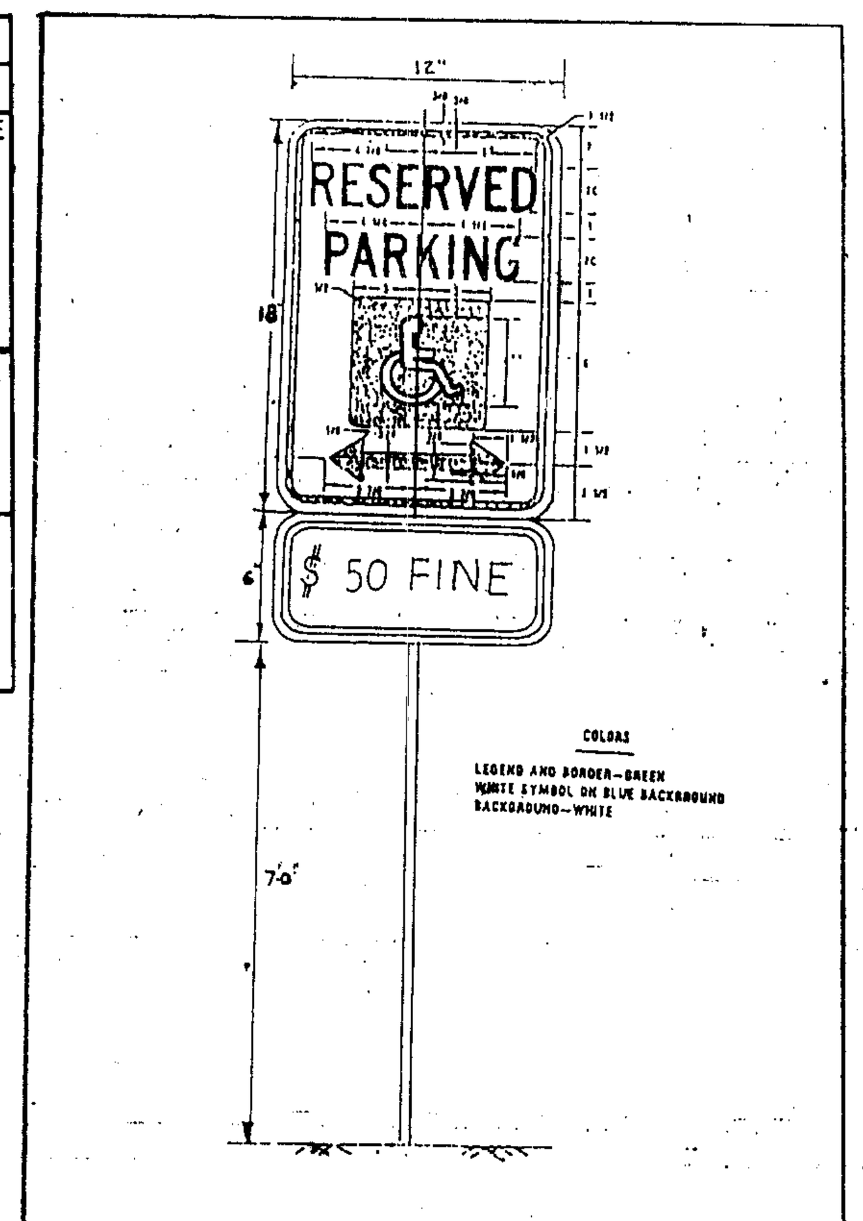
STRUCTURE SCHEDULE

STRUCTURE	INV IN	INV OUT	TOP EL.	TYPE AND DETAIL
I-1	-	346.78	* 351.10	"S" COMB. INLET HO.CO. S.D.-4.32
I-2	346.60	346.50	350.40	YARD INLET HO.CO. S.D.-4.14
I-3	-	346.00	349.80	YARD INLET HO.CO. S.D.-4.14
I-4	344.65	344.40	* 350.00	"S" COMB. INLET HO.CO. S.D.-4.32
MH-1	343.50	-	347.50	SHALLOW MANHOLE HO.CO. G-5.12
MH-2	342.60	~~341.60~~	346.50	MODIFIED SHALLOW MANHOLE HO.CO. G-5.12
S-1	-	~~338.00~~	-	15" METAL END SECTION
S-2		339.57		15" METAL END SECTION

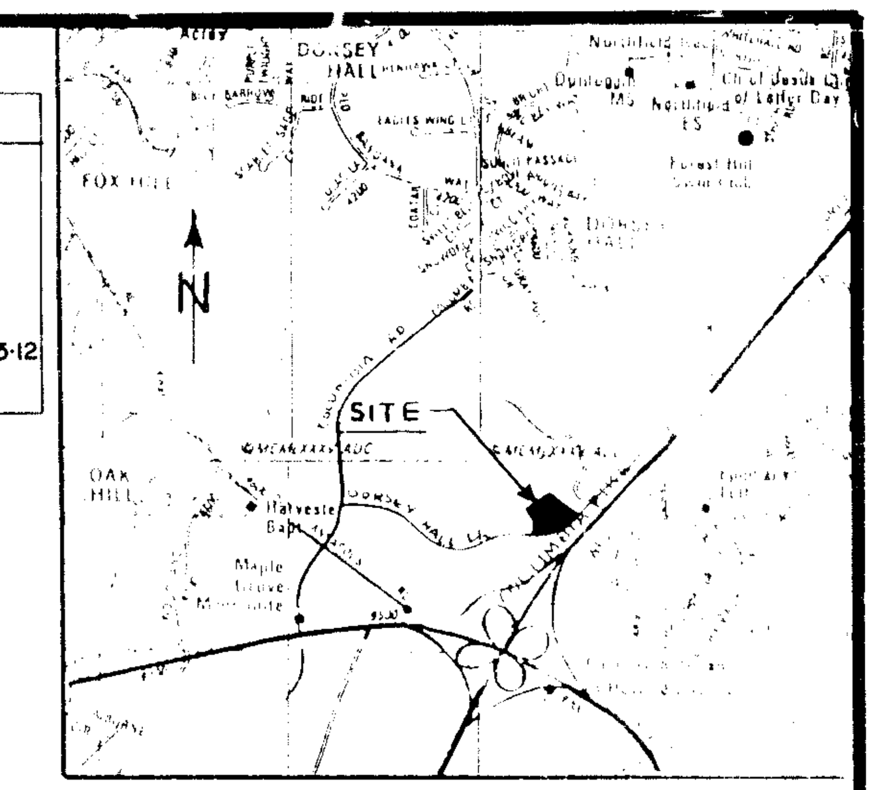
* TOP OF CURB ELEVATION

ADDRESS CHART

LOT #	STREET ADDRESS
GROUP A	5090 DORSEY HALL DRIVE 5092 DORSEY HALL DRIVE 5094 DORSEY HALL DRIVE 5096 DORSEY HALL DRIVE
GROUP B	5070 DORSEY HALL DRIVE 5072 DORSEY HALL DRIVE 5074 DORSEY HALL DRIVE 5076 DORSEY HALL DRIVE
GROUP C	5080 DORSEY HALL DRIVE 5082 DORSEY HALL DRIVE 5084 DORSEY HALL DRIVE 5086 DORSEY HALL DRIVE



HANDICAPPED PARKING SIGN DETAIL
(NO SCALE)



VICINITY MAP
SCALE: 1" - 2000'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 11-15-91 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR 12/20/91 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 12/20/91 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR 11/6/91 DATE
CHIEF BUREAU OF ENGINEERING 5-1-90 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Soil Conservation Service 4-18-90 Date
DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District 4/18/90 Date

PARKING DATA

OFFICE SPACE 3 x 14,234 = ~~42,702~~ 43,502 SF
250 SF/1 EMPLOYEE
42,702 SF OFFICE SPACE YIELDS ~~171~~ 174 EMPLOYEES

7 PARKING SPACES REQUIRED / 10 EMPLOYEES
174 ~~171~~ EMPLOYEES REQUIRE ~~120~~ 121 PARKING SPACES

3.1 120 ~~120~~ PARKING SPACES REQUIRED
122 PARKING SPACES PROVIDED (INCLUDING 6 HANDICAP SPACES)

STANDARD PARKING SPACE 9' x 18'
HANDICAP PARKING SPACE 13' x 18'

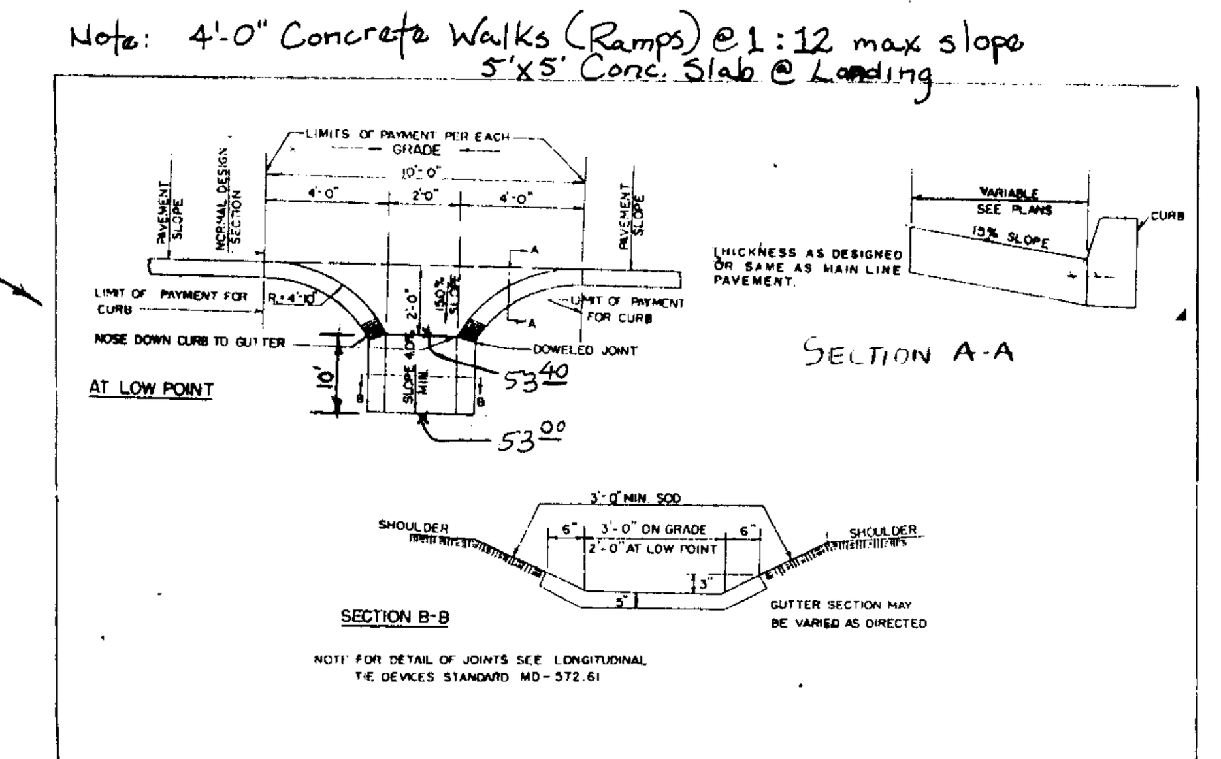
SITE ANALYSIS

1. TOTAL AREA OF SITE = 3.295 AC. OR 143,530 S.F.
2. ZONING POR, PLANNED OFFICE AND RESEARCH
3. OPEN SPACE (GREEN AREA) PROVIDED = 1.5 AC. (45%)
4. BUILDING COVERAGE OF SITE = 7272 x 3 = ~~21,816~~ 22,216 SF (~~15%~~) (15.5%)
5. GROUPS = 14,234 SF EACH
   43,502 = ~~42,702~~ SF TOTAL
6. LANDSCAPED ISLANDS REQUIRED (5% OF PARKING AREA) = 2460 SF
   LANDSCAPED ISLANDS PROVIDED = 6500 SF (13%)

Note: 4'-0" Concrete Walks (Ramps) @ 1:12 max slope
5'x5' Conc. Slab @ Landing

ENGINEER'S CERTIFICATE
I HEREBY 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 OF ENGINEER 4/13/90 DATE

DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
SIGNATURE OF DEVELOPER 4-13-90 DATE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD CURB OPENING DETAIL
CURB SECTION
STANDARD NO. MD-640.01

LEGEND

(1)	EXISTING CONTOUR
(2)	PROPOSED CONTOUR
(3)	EX. CONC. CURB AND GUTTER
(4)	PROP CONC. CURB AND GUTTER
(5)	FLOW DIRECTION
(6)	PROP. PAVING
(7)	PROP. CONC. WALK
(8) HC.	HANDICAPPED PARKING SPACE

5-14-90

SUBDIVISION NAME	SECT/AREA	LOT/PARCEL
DORSEY HALL	2/5	N-2

PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
8199	4	POR	30	2	6023.01

WATER CODE	SEWER CODE
F05	5750000

DESIGNED	JVP	9/89
DRAWN	RMC	9/89
CHECKED	RMJ	9/89
APPROVED		

REVISIONS

DATE	BY	DESCRIPTION
11-28-02	RMC	1 ADDITION OF 4" W SPRINKLER SYSTEM.
8-2-03	W.H.N.	2 Redline - Remove 1 1/2" WHC, Remove Blow-Off, provide 8"x6" R., Provide 4" V's add 4" W. profiles
9-20-93	S.G.P. / W.H.N.	3 Redline - Moved Pond, R-1, S-2, MH2, 15" CMP and Dam 5' East.
11-4-93	"	3.1 Add Buildings Group "A" & Group "C" Shts 1,2,4,6,7

5-25-94 ASBUILTS (SWM)

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 461-9920 WASH. 621-4490

DHARAM V. K. TULSIA REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4138

SITE DEVELOPMENT PLAN
TAX MAP 30
PARCEL N-2

DORSEY HALL

(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN | CONTRACT NO.: [illegible] | DATE: 9/89 | SHEET 1 OF 7

SDP 90 65

These specifications are appropriate to ponds within the scope of the Standard for practice 378.

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

   Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blac-Klad, and Bett-Cor-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Dimple bands are not considered to be watertight.

3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.

5. Backfilling shall conform to structural backfill as shown above.

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE

1. Materials

   a. Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.

   b. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

   c. Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

   d. Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.

   e. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.

3. Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

4. Forms - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

   The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

   Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

5. Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

6. Consolidating - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

7. Finishing - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

8. Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compunds may also be used.

9. Placing Temperature - Concrete may not be placed at temperatures below 32° F with the temperature falling, or 34° with the temperature rising.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

SIGNATURE BLOCK

3-14-90

com

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, 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 will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Douglas L. Dyson — 4-13-90
Signature of Developer — Date
Print name below signature

( ) By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer — 4/13/90 Date
Print name below signature

( ) These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service — Date

( ) These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District — Date

ENGINEER'S CERTIFICATE

I HEREBY 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 OF ENGINEER — DATE 4/13/90

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."

Douglas L. Dyson — 4-13-90
SIGNATURE OF DEVELOPER — DATE

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

COUNTY HEALTH OFFICER — 11-15-91 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR — 12/20/91 DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 12/20/91 DATE

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

DIRECTOR — 12/6/91 DATE

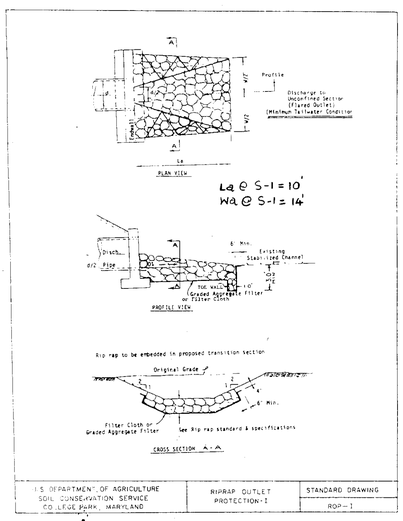
CHIEF BUREAU OF ENGINEERING — DATE

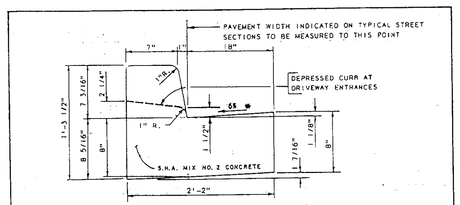
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Soil Conservation Service — 4-18-90 Date

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

Howard Soil Conservation District — 4/19/90 Date

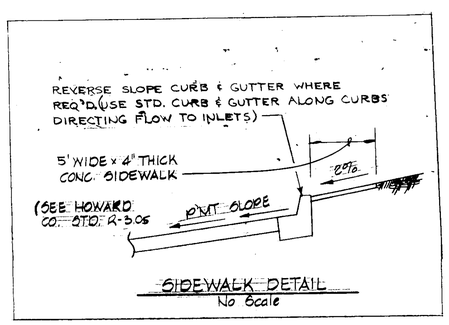




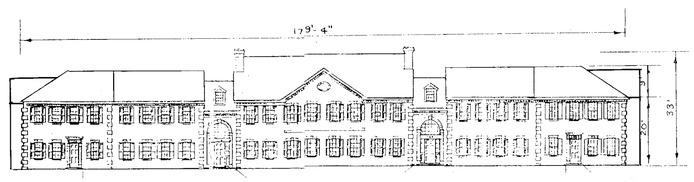
STANDARD 7" COMBINATION CURB AND GUTTER

NOT TO SCALE

* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT.



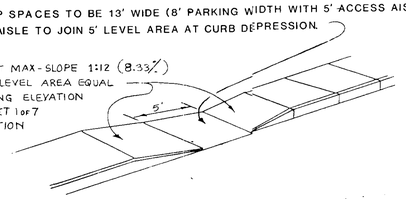
SIDEWALK DETAIL
No Scale



BUILDING PROFILE (GROUP A, B, AND C)

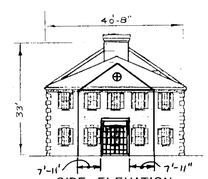
NO SCALE

NOTE:-
HANDICAP SPACES TO BE 13' WIDE (8' PARKING WIDTH WITH 5' ACCESS AISLE).
ACCESS AISLE TO JOIN 5' LEVEL AREA AT CURB DEPRESSION.



HANDICAP RAMP DETAIL

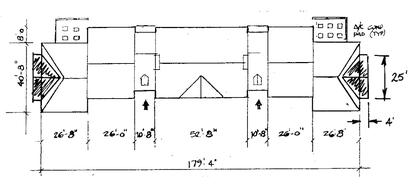
NO SCALE



SIDE ELEVATION

NO SCALE

Note: Doors face Group "B", other end has windows only.



FOOTPRINT - TYPICAL (GROUP A, B, AND C)

NO SCALE

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE EXPENSE OF CONTRACTOR.
3. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF AN CONSTRUCTION.
4. THE LAND INCLUDED IN THIS PLAN IS ZONED : POR (Planned Office & Research)
5. THE AREA SHOWN IN THIS SUBMISSION IS LOCATED ON ZONE MAP NO: 30
6. TYPE OF SOIL: MANOR LOAM
7. "THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272"

DESIGN	JVP	9/89	DATE
DRAWN	AMC	9/89	DATE
CHECKED	RHJ	9/89	DATE
APPROVED			DATE

REVISIONS

DATE	BY	DESCRIPTION
4/90	WHN	Bldg. Addition Group "A" & "C"

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

STATE OF MARYLAND — DONALD V. KATHMAN — NO. 9819 — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER

ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 4188

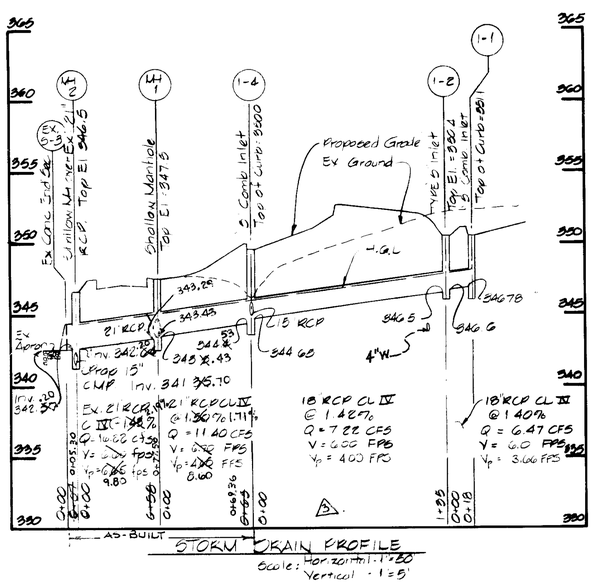
POND SPECIFICATIONS AND GENERAL DETAILS

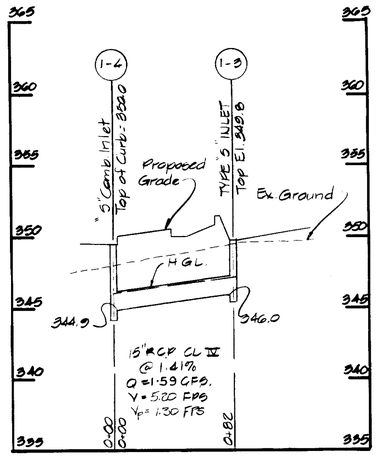
DORSEY HALL

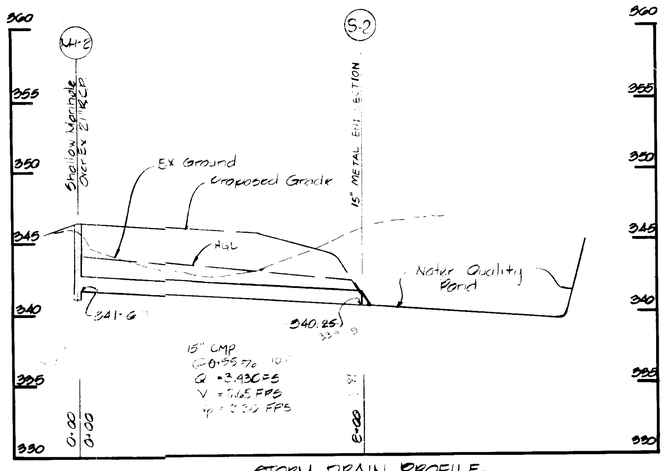
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN	CONTRACT NO	DATE 9/89	SHEET 2 OF 7

SDP 90 65







Constructed meets the requirements set forth in the waiver request.

DAVID B. ENNIS
6-3-90

STATE OF MARYLAND DAVID B. ENNIS No. 15250 REGISTERED PROFESSIONAL ENGINEER

Note: Core trench compaction analysis performed by Hurlbut and Associates.

( ) By the Owner:

"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. We also provide the Howard Soil Conservation District with a "Notice of" plan if the plan will require revision. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Douglas L Dyson 4-13-90
Signature of Developer Date
Print name below signature

( ) By the Engineer:

"I certify that this plan for the construction, erosion and sediment control is adequate, practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District Manual. I have notified the developer that he must give the Howard Soil Conservation District with as much notice of plan of the pond within 30 days of completion."

Dr Hallis 4/13/90
Signature of Engineer Date
Print name below signature

( ) ~~These plans have been reviewed for the Howard Soil Conservation District and found to meet the technical requirements for~~ ~~construction, soil erosion and sediment control.~~

U.S. Soil Conservation Service Date

( ) ~~These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.~~

Howard Soil Conservation District Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11-6-91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DIRECTOR — DATE 12/20/91
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 12/20/91

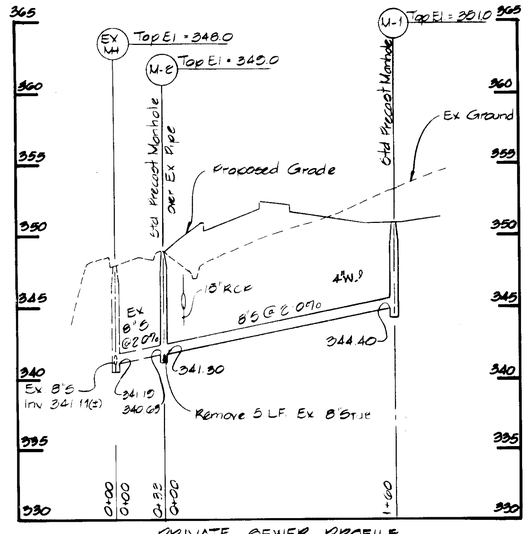
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 11/6/91
CHIEF BUREAU OF ENGINEERING — DATE 5-7-91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Howard Soil Conservation Service — Date 4-18-90

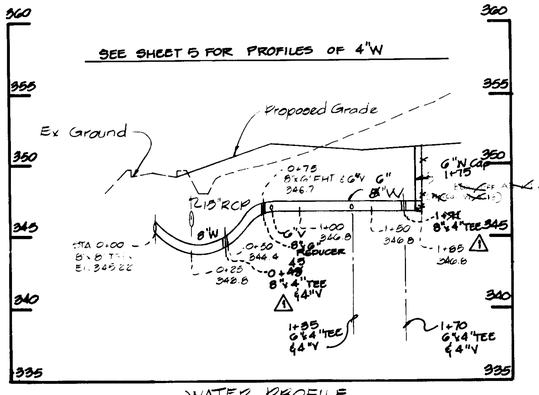
THIS DEVELOPMENT IS APPROVED FOR PONDS AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District — Date 4/18/90

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THE PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A COMPETENT, PROFESSIONAL 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 OF ENGINEER — DATE 4/13/90

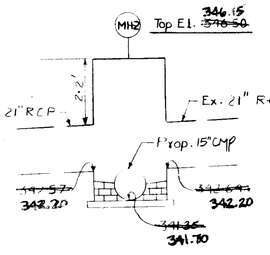
DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF HOUSE AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AGENTS.
SIGNATURE OF DEVELOPER — DATE 4-13-90



PRIVATE SEWER PROFILE
Scale: Horizontal-1"=50'
Vertical - 1"=5'



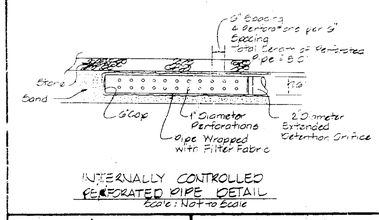
WATER PROFILE
Scale: Horizontal-1"=50'
Vertical-1"=5'



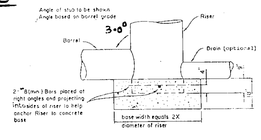
MODIFIED SHALLOW PRECAST MANHOLE
Ref. Ho. Co. G 5.12
(N.T.S.)

SIGNATURE BLOCK

D.N.R. — 3-14-90

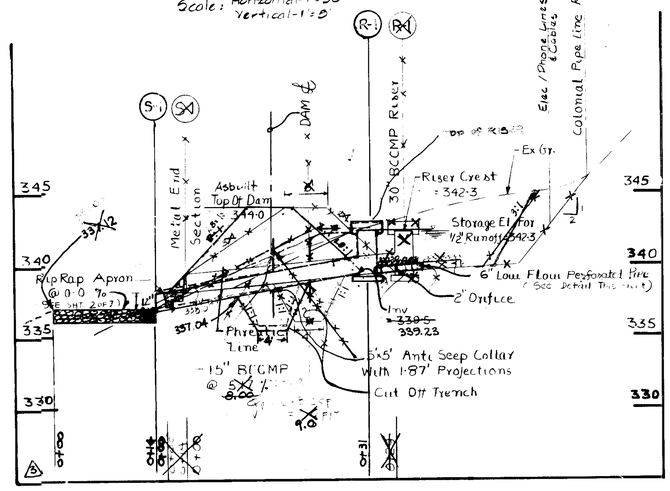


INTERNALLY CONTROLLED PERFORATED PIPE DETAIL
Scale: Not to Scale

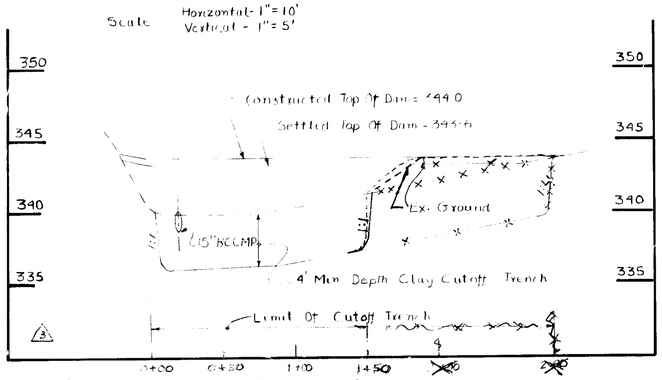


RISER BASE DETAIL

NOTES:
1. The concrete base shall be poured in such a manner to assure that the concrete fills the bottom of the riser to the invert of the outlet pipe to prevent the riser from breaking away from the base.
2. With aluminum or aluminized pipe, the embedded section must be painted with zinc chromate or equivalent.
3. Riser base may be sized as computed using floatation with a factor of safety of 1.2.



CROSS SECTION THROUGH POND DAM
Scale: Horizontal-1"=10'
Vertical - 1"=5'



PROFILE ALONG POND DAM
Horiz - 1"=50'
Vertical - 1"=5'

REVISIONS			
DATE	BY	DESCRIPTION	
11-29-89	KAP.	ADDED 8"x4" TEE	1
8-2-90	WHN	Redline - Remove 1 1/2" WHC., Remove Blow-Off, Provide 8"x6" R., Provide 4"x's add 4"W profiles	2
9-20-90	SAP WHN	Redline - Revised Profiles	3

DESIGNED CVP 9/89 DATE
DRAWN RMC 9/89 DATE
CHECKED RHJ 9/89 DATE
APPROVED DATE

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

STATE OF MARYLAND DAVID B. ENNIS No. 15250 REGISTERED PROFESSIONAL ENGINEER

OWNER/DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC.
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

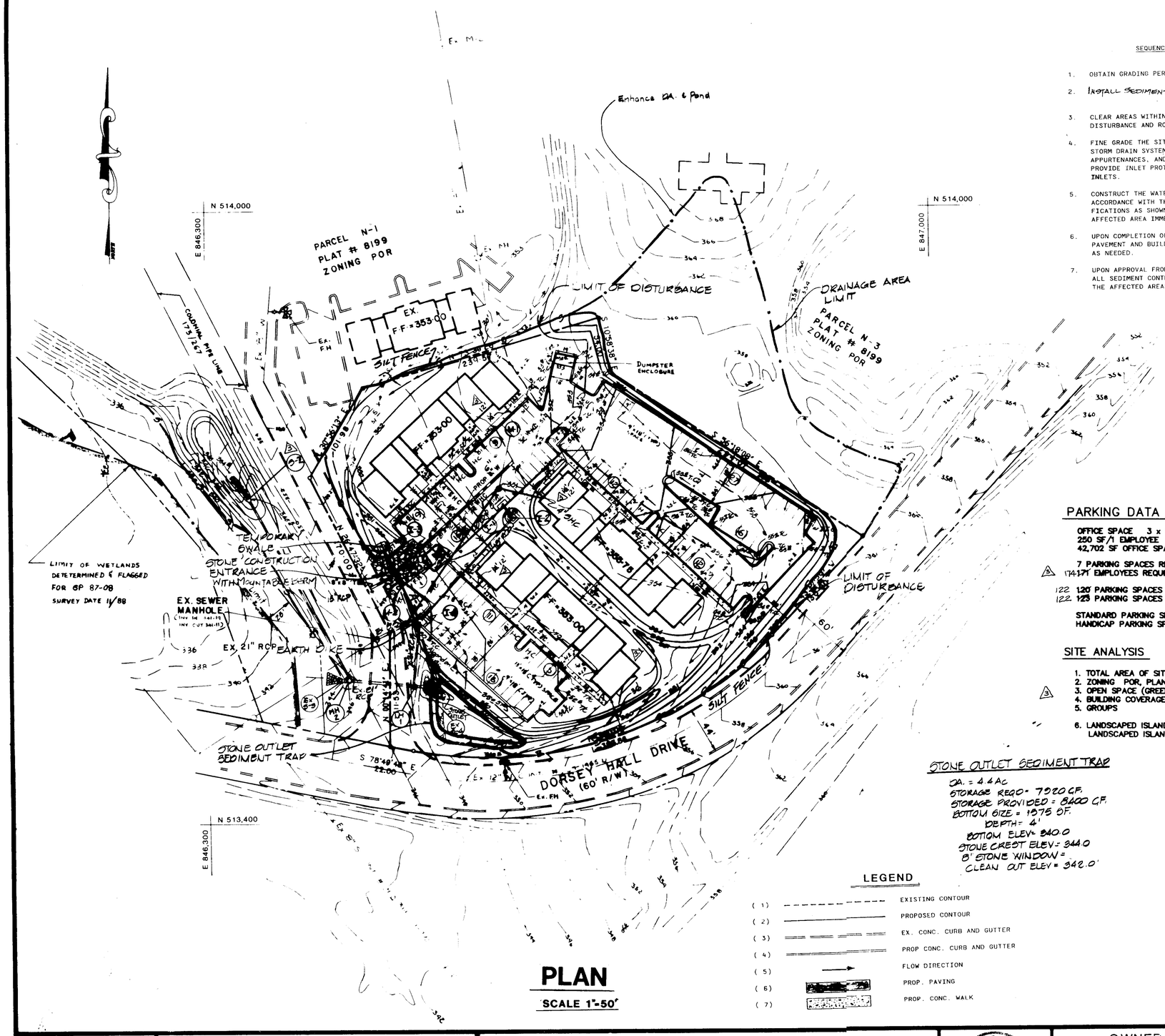
STORM DRAIN, WATER AND SEWER PROFILES

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE — CONTRACT NO — DATE 9/89 — SHEET 6 OF 7

AS-BUILTS

SDP 90-65



PLAN

SCALE 1"=50'

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT CONTROL MEASURES — 2 DAYS
3. CLEAR AREAS WITHIN THE LIMITS OF DISTURBANCE AND ROUGH GRADE THE SITE. — 1 WEEK
4. FINE GRADE THE SITE. INSTALL UTILITIES, STORM DRAIN SYSTEM, PAVEMENT AND APPURTENANCES, AND CONSTRUCT BUILDINGS. PROVIDE INLET PROTECTION AT STORM DRAIN INLETS. — 6 MONTHS
5. CONSTRUCT THE WATER QUALITY POND IN ACCORDANCE WITH THE POND PLANS AND SPECIFICATIONS AS SHOWN, AND STABILIZE THE AFFECTED AREA IMMEDIATELY UPON COMPLETION. — 1 WEEK
6. UPON COMPLETION OF INSTALLATION OF UTILITIES PAVEMENT AND BUILDINGS, STABILIZE ALL AREAS AS NEEDED. — 1 WEEK
7. UPON APPROVAL FROM THE INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE THE AFFECTED AREAS IMMEDIATELY. — 2 DAYS

PARKING DATA

OFFICE SPACE 3 x 14,234 = 42,702 SF 43,502 SF
250 SF/1 EMPLOYEE
42,702 SF OFFICE SPACE YIELDS 171 EMPLOYEES 174

7 PARKING SPACES REQUIRED / 10 EMPLOYEES
174-171 EMPLOYEES REQUIRE 120 PARKING SPACES 122

122 120 PARKING SPACES REQUIRED
122 123 PARKING SPACES PROVIDED (INCLUDING 6 HANDICAP SPACES)

STANDARD PARKING SPACE 9' x 18'
HANDICAP PARKING SPACE 13' x 18'

SITE ANALYSIS

1. TOTAL AREA OF SITE = 3.295 AC.
2. ZONING POR, PLANNED OFFICE AND RESEARCH
3. OPEN SPACE (GREEN AREA) PROVIDED = 1.5 AC. (45%)
4. BUILDING COVERAGE OF SITE = 7272 x 3 = 21,816 SF
5. GROUPS = 14,234 SF EACH 22,216
   = 42,702 SF TOTAL 43,502
6. LANDSCAPED ISLANDS REQUIRED (5% OF PARKING AREA) = 2460 SF
   LANDSCAPED ISLANDS PRIVIDED = 6500 SF (13%)

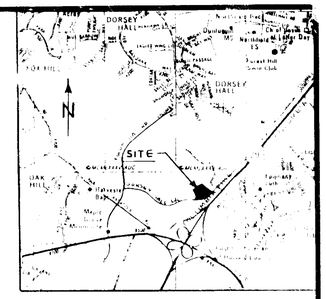
STONE OUTLET SEDIMENT TRAP

DA. = 4.4 AC
STORAGE REQ'D = 7020 CF.
STORAGE PROVIDED = 8400 CF.
BOTTOM SIZE = 1575 SF.
DEPTH = 4'
BOTTOM ELEV = 340.0
STONE CREST ELEV = 344.0
8' STONE WINDOW =
CLEAN OUT ELEV = 342.0'

NOTE: THIS PLAN IS TO BE USED FOR SEDIMENT CONTROL MEASURES ONLY.

LEGEND

(1) EXISTING CONTOUR
(2) PROPOSED CONTOUR
(3) EX. CONC. CURB AND GUTTER
(4) PROP CONC. CURB AND GUTTER
(5) FLOW DIRECTION
(6) PROP. PAVING
(7) PROP. CONC. WALK



VICINITY MAP

SCALE 1" = 2000'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
11-18-91 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR 12/20/91 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 12/20/91 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR 11/6/91 DATE
CHIEF BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Soil Conservation Service 4-18-90 DATE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL WITH THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District 4/18/90 DATE

ENGINEER'S CERTIFICATE
I HEREBY 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 OF ENGINEER 4/1/90 DATE

DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
SIGNATURE OF DEVELOPER 4-13-90 DATE

SIGNATURE BLOCK
DATE 3-14-90

DESIGNED	JVP	9/89 DATE
DRAWN	RMC	9/89 DATE
CHECKED	RHJ	9/89 DATE
APPROVED		DATE

REVISIONS

DATE	BY	DESCRIPTION
8-2-93	WHN	Redline - Remove 1'1/2" W.H.C., Remove Blow-off, provide 8"x6"R, provide 6"x's add 4"W profiles
9-20-93	D.G.P.	Redline - Revised Dimensions & Outfall
11-9-93	"	BLDG. Additions Group "A" & "C"

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS * PLANNERS * SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 461-9920 WASH. 621-4880

STATE OF MARYLAND — GRAHAM V. KAPLON — NO. 8819 — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER

ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

SEDIMENT CONTROL PLAN

DORSEY HALL

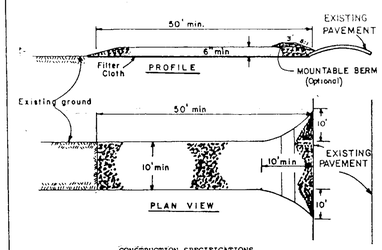
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN	CONTRACT NO.:	DATE: 9/89	SHEET: 4 OF 7

SDP 90-65

STABILIZED CONSTRUCTION ENTRANCE
not to scale

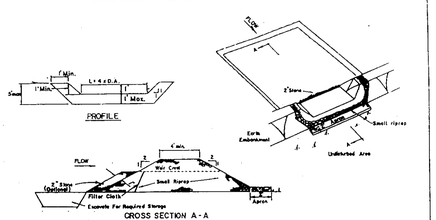
STANDARD SYMBOL SCE



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STONE OUTLET SEDIMENT TRAP 'S'



CROSS SECTION A-A

OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

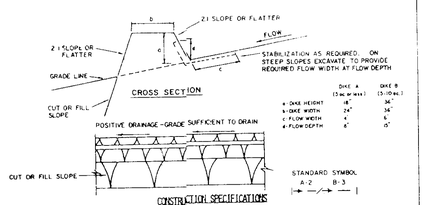
CONSTRUCTION SPECIFICATIONS FOR ST-'S'

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the upgrade side on the small riprap on embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-'S'

EARTH DIKE
not to scale



CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE 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 SEDIMENT BASIN 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 STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSITOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

PERMANENT SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENED.

Soil Amendments: 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 square 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 square ft.)

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square 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 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 square ft.) of weeping lovegrass. During the period of October 16 through 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

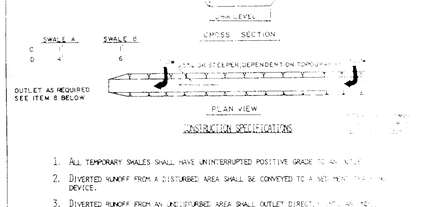
Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

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

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2½ bu. per acre of annual rye (3.2 lbs./1000 sq. ft.) For the period May 1 through August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.) For the period November 16 through February 28, protect the 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.

TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES 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 DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREON AND BE FREE OF BANK SLOUGHING OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 ac or less)	B (5 ac to 10 ac)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSITOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSITOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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, Chapter 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) and (Sec. 54), 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	3.45	Acres
Area Disturbed	3.20	Acres
Area to be roofed or paved	1.83	Acres
Area to be vegetatively stabilized	1.60	Acres
Total Cut	3500	Cu. yds
Total Fill	4200	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.

4"W PROFILE TO BUILDING GROUP "A"
SCALE: 1"=50' HORZ.
1"=5' VERT.

4"W PROFILE TO BUILDING GROUP "B"
SCALE: 1"=50' HORZ.
1"=5' VERT.

SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

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. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

4"W PROFILE TO BUILDING GROUP "C"
SCALE: 1"=50' HORZ.
1"=5' VERT.

ENGINEER'S CERTIFICATE

I HEREBY 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 OF ENGINEER — DATE 4/13/90

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Douglas T. Dyson — 4-13-90
SIGNATURE OF DEVELOPER — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11-15-91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 12/20/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 12/20/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS DRAINAGE SYSTEMS AND PUBLIC ROADS IN HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 11/6/91
CHIEF BUREAU OF ENGINEERING — DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
U.S. Soil Conservation Service — Date 4-18-90

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard Soil Conservation District — Date 4/18/90

SIGNATURE BLOCK
3-14-90

REVISIONS

DATE	BY	DESCRIPTION
8-2-93	WHN	(2) Redline - Remove 1½" WHC; Remove Blow-Off, provide 8"x6"R; Provide 4"V's; add 4"W profiles

DESIGNED JVP 9/89 DATE
DRAWN RMC 9/89 DATE
CHECKED RHJ 9/89 DATE
APPROVED DATE

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

STATE OF MARYLAND — DONALD V. KAPLUNA — NO. 9818 — REGISTERED PROFESSIONAL ENGINEER

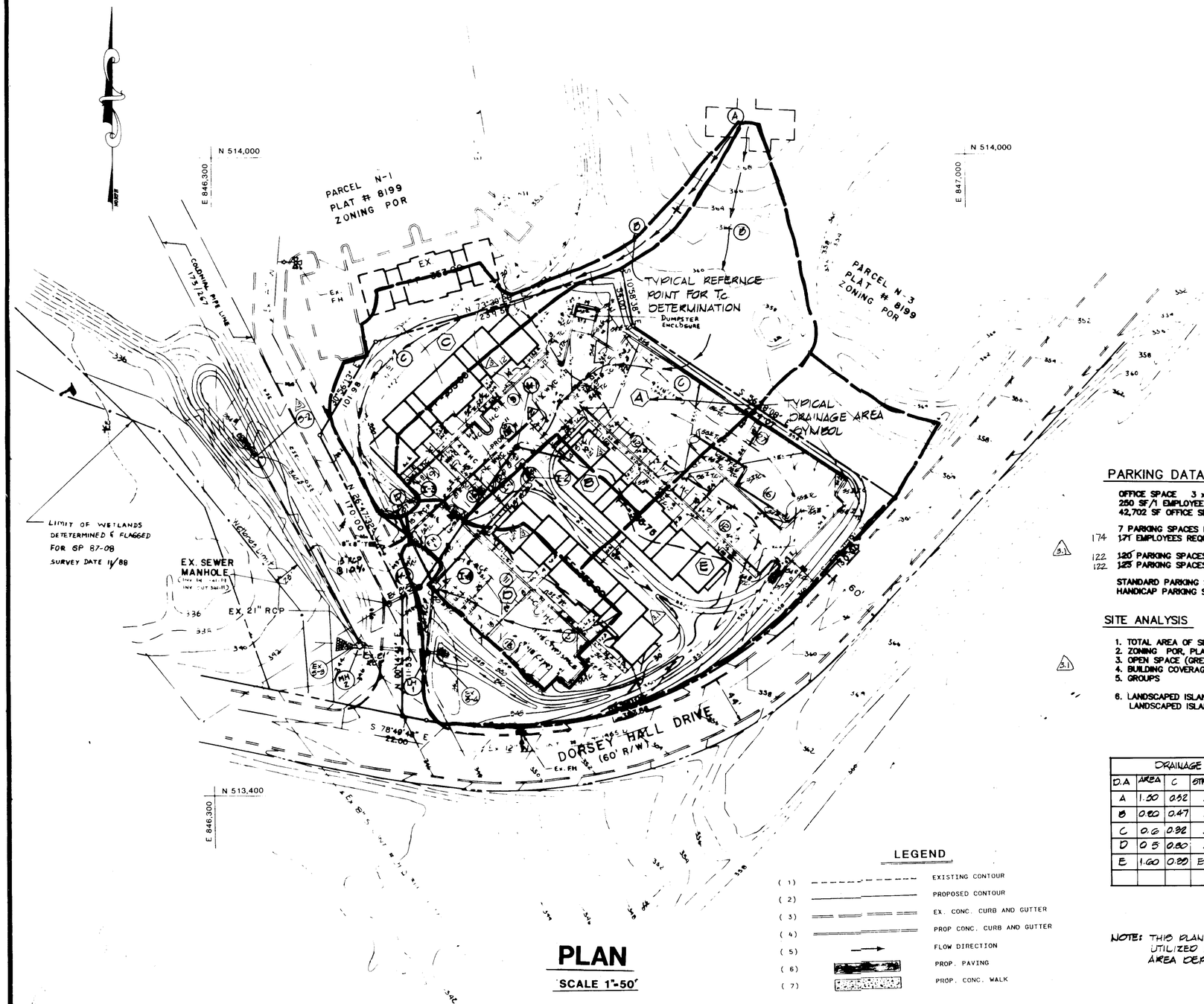
OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 4188

SEDIMENT CONTROL NOTES AND DETAILS

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL No.
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO DATE 9/89 SHEET 5 OF 7

SDP-90-65

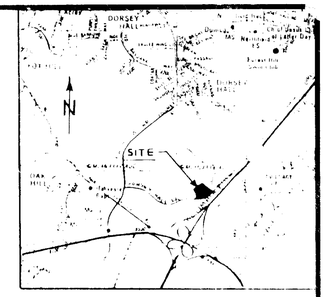


PLAN

SCALE 1"=50'

LEGEND

(1) EXISTING CONTOUR
(2) PROPOSED CONTOUR
(3) EX. CONC. CURB AND GUTTER
(4) PROP CONC. CURB AND GUTTER
(5) FLOW DIRECTION
(6) PROP. PAVING
(7) PROP. CONC. WALK



VICINITY MAP
SCALE 1" = 2000'

PARKING DATA

OFFICE SPACE 3 x 14,234 = 42,702 SF 43,502 SF
250 SF/1 EMPLOYEE
42,702 SF OFFICE SPACE YIELDS 171 EMPLOYEES

7 PARKING SPACES REQUIRED / 10 EMPLOYEES
171 EMPLOYEES REQUIRE 120 PARKING SPACES
174 122

120 PARKING SPACES REQUIRED
122 125 PARKING SPACES PROVIDED (INCLUDING 6 HANDICAP SPACES)

STANDARD PARKING SPACE 9' x 18'
HANDICAP PARKING SPACE 13' x 18'

SITE ANALYSIS

1. TOTAL AREA OF SITE = 3.295 AC.
2. ZONING POR, PLANNED OFFICE AND RESEARCH
3. OPEN SPACE (GREEN AREA) PROVIDED = 1.5 AC. (45%)
4. BUILDING COVERAGE OF SITE = 7272 x 3 = 21,816 SF 22,216 SF
5. GROUPS = 14,234 SF EACH
   = 42,702 SF TOTAL 43,502
6. LANDSCAPED ISLANDS REQUIRED (5% OF PARKING AREA) = 2460 SF
   LANDSCAPED ISLANDS PRIVIDED = 6500 SF (13%)

DRAINAGE TABULATION				
D.A	AREA	C	STRUCTURE	%IMPERVIOUS
A	1.50	0.52	I-1	46.7
B	0.80	0.47	I-2	40.0
C	0.6	0.92	I-3	100
D	0.5	0.80	I-4	90.0
E	1.60	0.39	Ex. K-1	28.1

NOTE: THIS PLAN IS TO BE UTILIZED FOR DRAINAGE AREA DEPICTION ONLY

SIGNATURE BLOCK

APPRO...
3-14-90
cm

Joseph Boylan 11-15-91
DEPT.
12/20/91
12/20/91
11/6/91
CHIEF BUREAU OF ENGINEERING

4-18-90
4/18/90

ENGINEER'S CERTIFICATE
I HEREBY 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.
4/13/90
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
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4-13-90
SIGNATURE OF DEVELOPER DATE

DESIGNED	JVP	3/89 DATE
DRAWN	AMC	9/89 DATE
CHECKED	RHJ	9/89 DATE
APPROVED		DATE

REVISIONS

DATE	BY	DESCRIPTION
8-8-89	WHN	⚠ Red line - Remove 1 1/2" WHC.; Remove Blan- Off, provide 8"xG"R, provide 4"V's add 4"W profiles
4-20-93	SGP	⚠2 Redline - Revised Dimensions & Outfall
11-4-93	"	⚠3.1 Bldg. Additions - Group "A" & "C"

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS * PLANNERS * SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 461-9920 WASH. 621-4990

STATE OF MARYLAND GRAHAM V. KAINSINGH NO. 9810 REGISTERED PROFESSIONAL ENGINEER

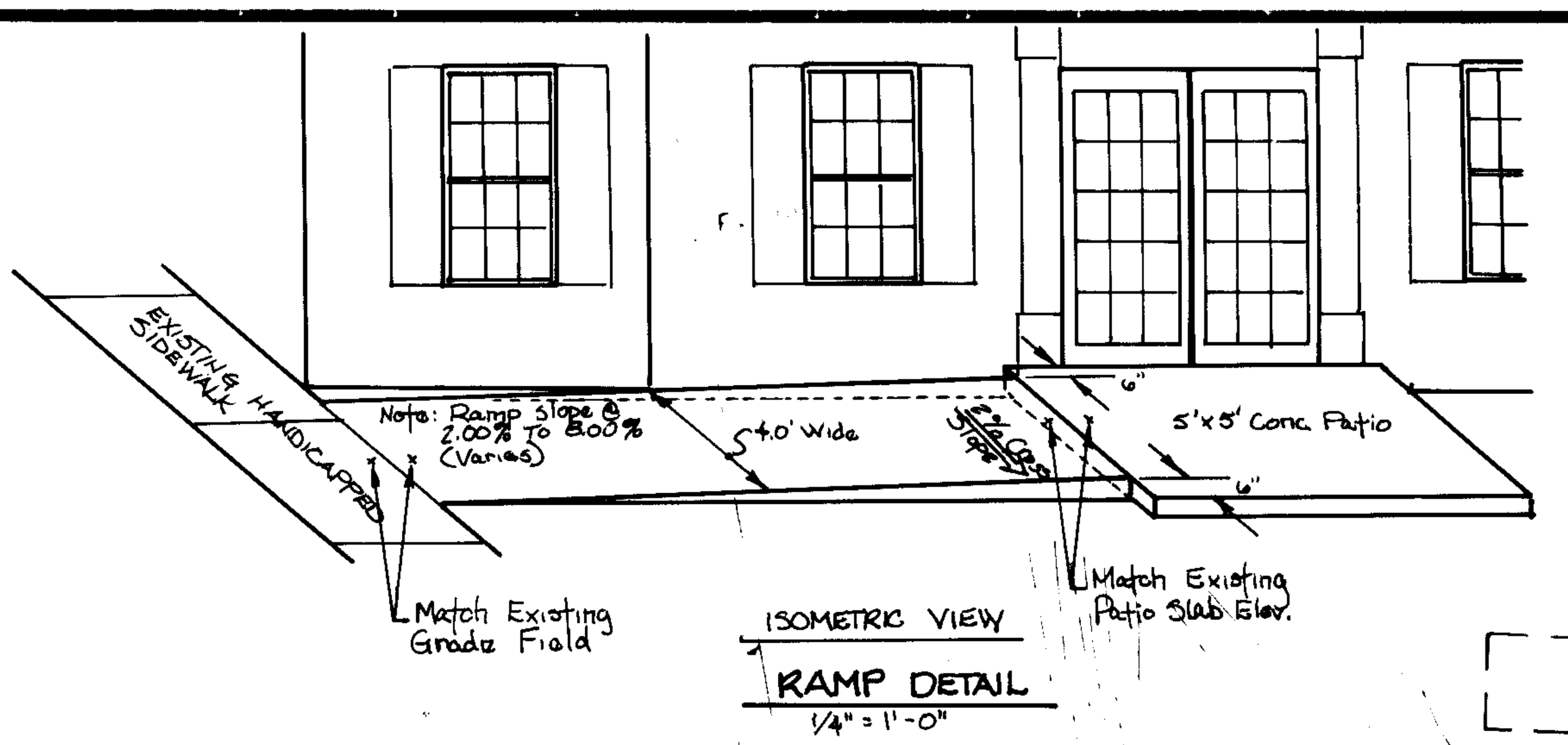
OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 4188

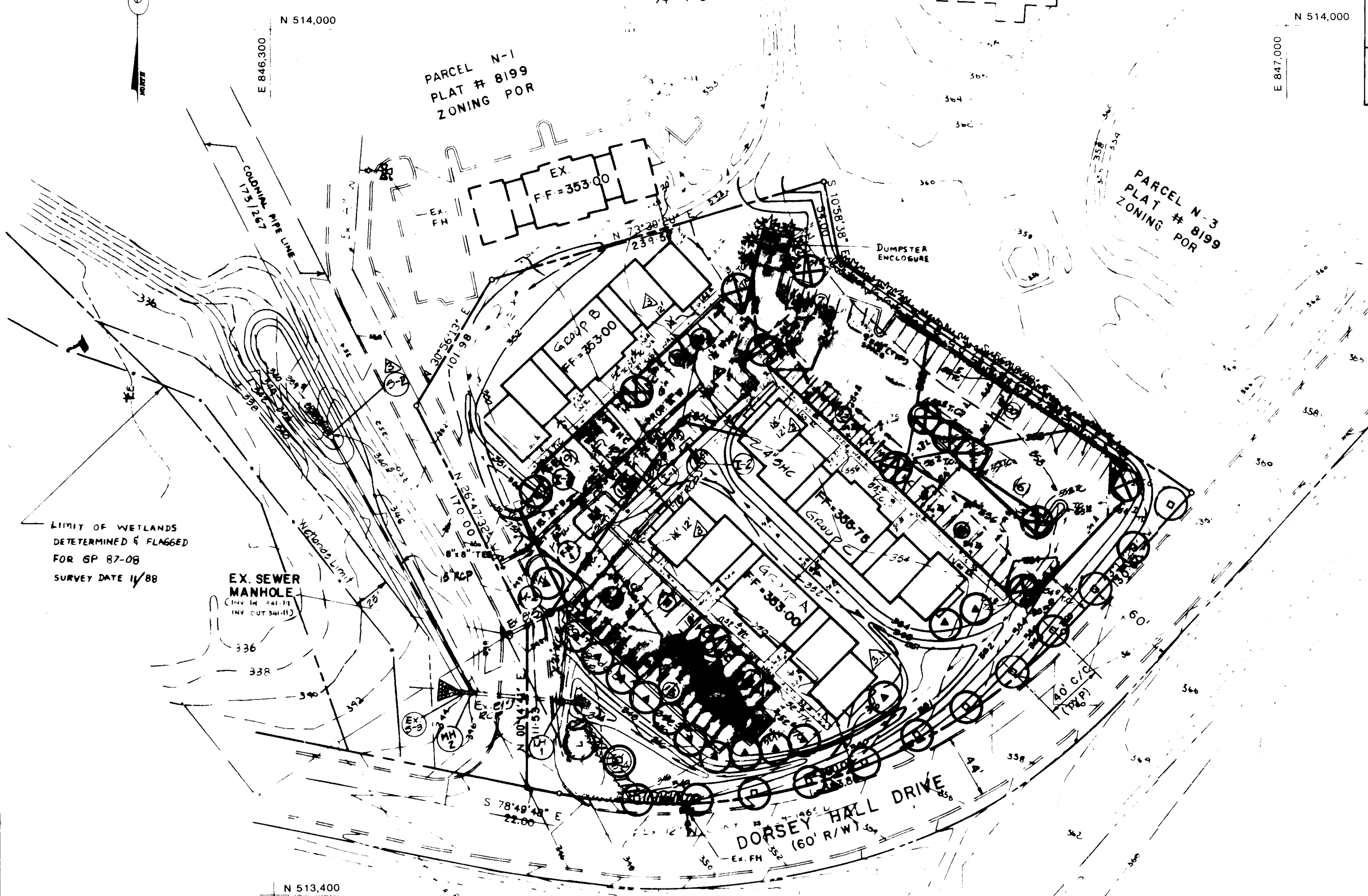
DRAINAGE AREA MAP

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN	CONTRACT NO.:	DATE:	SHEET 6 OF 7

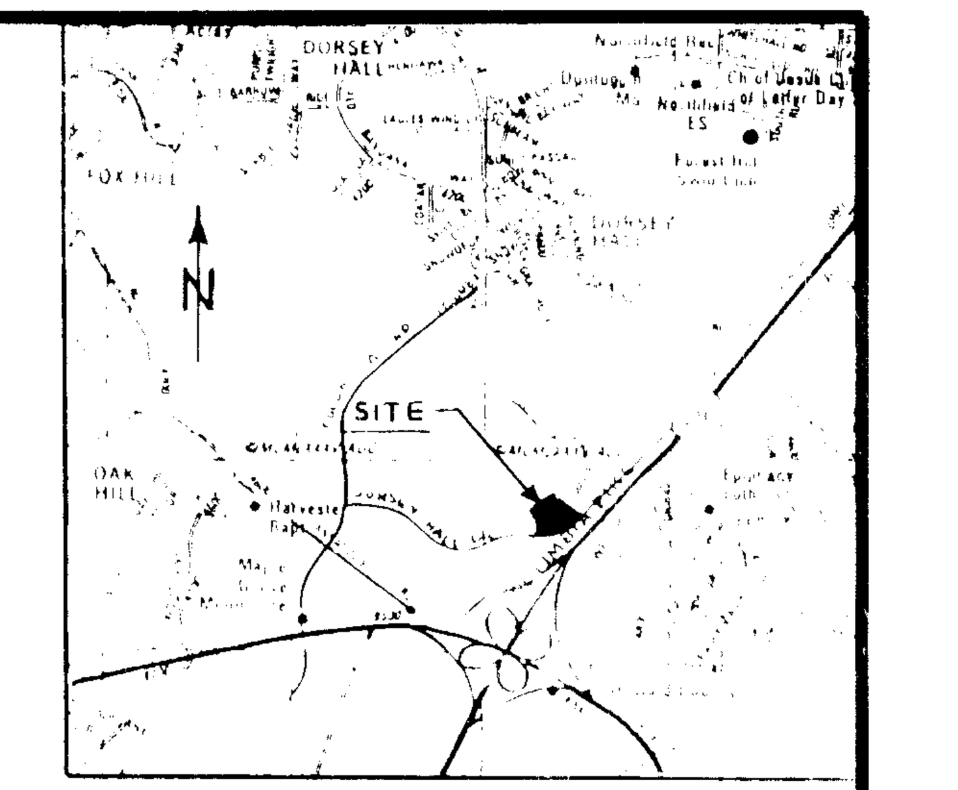
SDP90 65





PLANT LIST

KEY	QUANTITY	BOTANICAL NAME COMMON NAME	SIZE	COND.	NOTES
⊙	14	PLANTUS ACERFOLIA LONDON PLANE TREE	2 1/2" - 3"	B & B	MATCHED
▲	14	LIQUIDAMBAR STYRACIFLLIA SWEETGUM	2 1/2" - 3"	B & B	
⊗	13	ACER RNBRUM RED MAPPLE	2 1/2" - 3"	B & B	
	40	EUONYMUS MANHATTEN EVERGREEN EVONYMUS	3'	B & B	
	29	PINUS STROBUS E. WHITE PINE	6' - 8'	BB	



VICINITY MAP
SCALE 1" = 2000'

11-15-91

12/20/91
12/20/91

11/6/91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

4-18-90

4/18/90

PARKING DATA

OFFICE SPACE 3 x 14,234 = 42,702 SF
250 SF/1 EMPLOYEE
42,702 SF OFFICE SPACE YIELDS 171 EMPLOYEES

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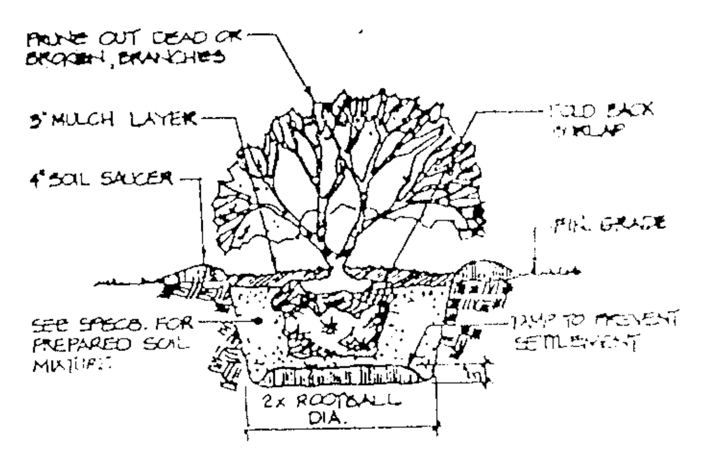
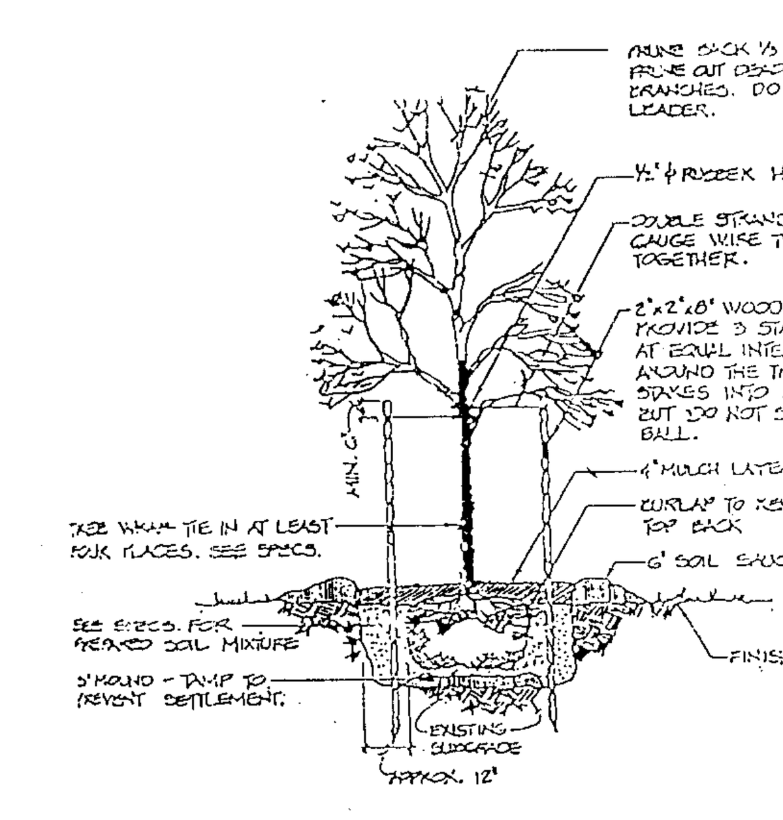
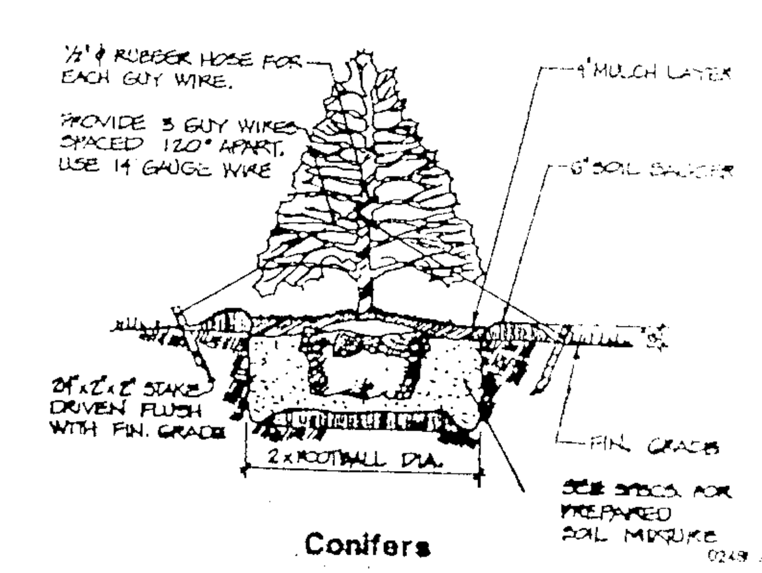
NOTE: THIS PLAN TO BE USED FOR LANDSCAPING ONLY



Shrubs
NO SCALE



Deciduous Trees
NO SCALE



Conifers

SIGNATURE BLOCK

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 3-14-90

LEGEND

(1)	- - - - - -	EXISTING CONTOUR
(2)	————	PROPOSED CONTOUR
(3)		EX. CONC. CURB AND GUTTER
(4)		PROP. CONC. CURB AND GUTTER
(5)	→	FLOW DIRECTION
(6)		PROP. PAVING
(7)		PROP. CONC. WALK

PLAN
SCALE 1"=50'

DESIGNED	JYP	9/89
DRAWN	RMC	9/89
CHECKED	RHJ	9/89
APPROVED		

REVISIONS

DATE	BY	DESCRIPTION
8-2-93	WHN	2 Redline - Remove 1 1/2" W.H.C. Remove Blow-Off, Provide 8"x6"R, provide 4"V's add 4"W profiles
9-20-93	S.G.P.	3 Redline - Revised Dimensions & Outfall
11-4-93	"	3.1 Bldg Additions Group "A" & "C" & Ramp Detail.

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 461-9920 WASH. 621-4490

STATE OF MARYLAND
DHARAM V. KATHURIA
No. 8618
REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC.
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

LANDSCAPE PLAN
DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO. DATE 9/89 SHEET 7 OF 7

SDP 90-65