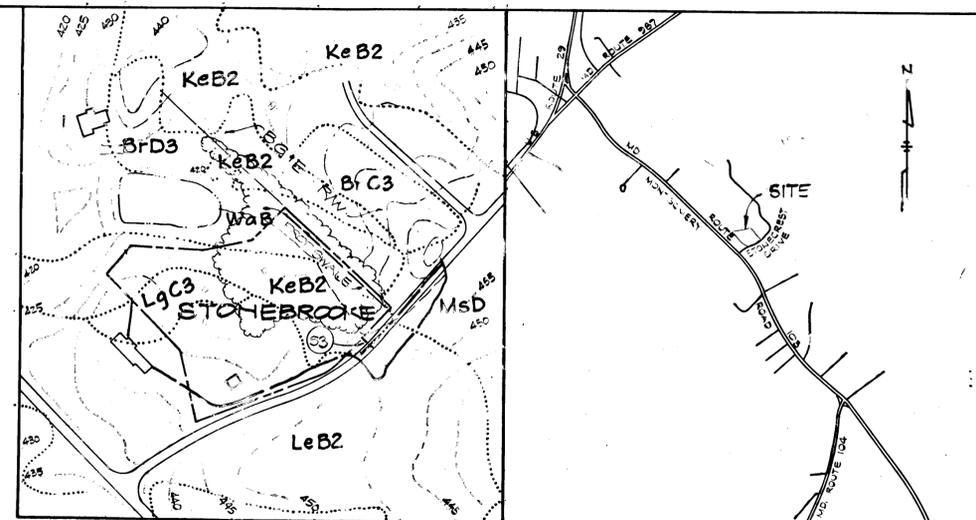


PROPERTY OF
H. W. MULNER
315 / 757

PROPERTY OF
THE BALTO. GAS & ELECT. CO.
381 / 293

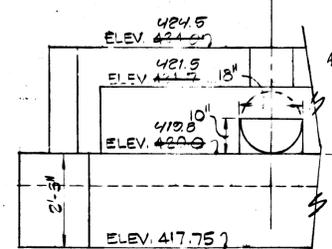
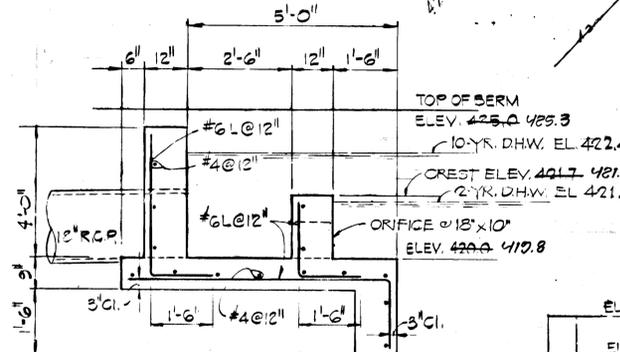
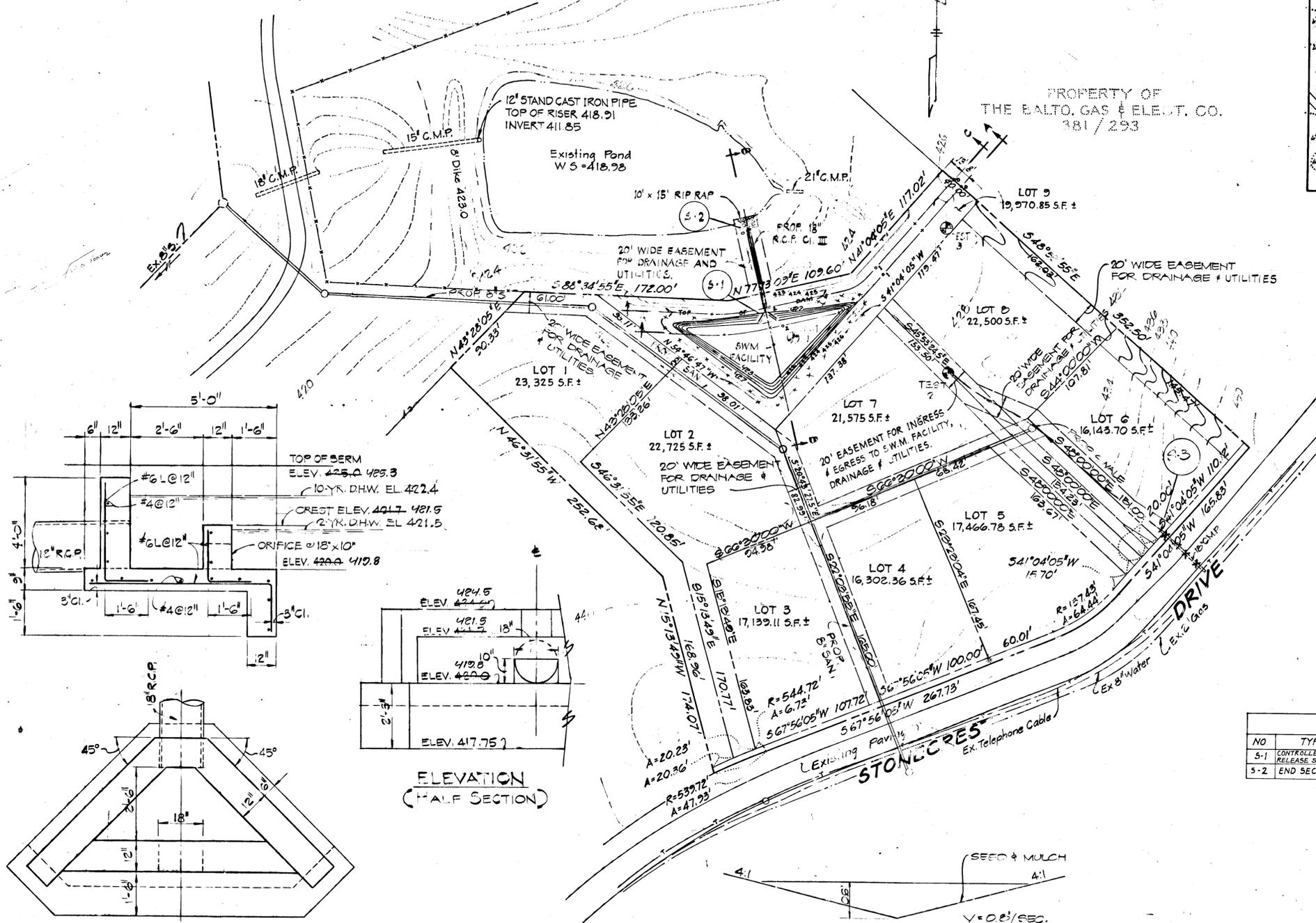
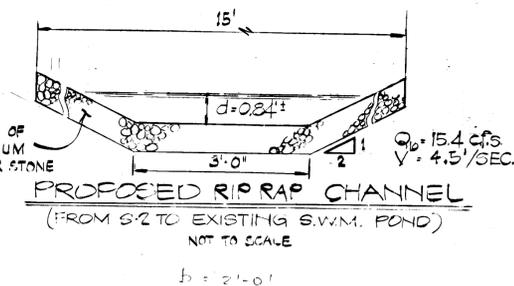


DRAINAGE AREA MAP

VICINITY MAP

LEGEND

SOIL BORING



STRUCTURE SCHEDULE

NO	TYPE	INV. IN	INV. OUT	REMARKS
5-1	CONTROLLED RELEASE STRUCT.	-	419.00'	SEE DETAIL THIS SHEET
5-2	END SECTION	-	419.10'	HO. CO. STD. N° 5D - 5.52

ADDRESS CHART

LOT NO.	STREET ADDRESS	SECT./AREA	LOT, PARCEL NO.
	STONEBROOKE		21

PLAT NO. OR L/F 1072/637 **BLOCK NO.** 31 **ZONE** 2

TAX/ZONE MAP ELECT. DIST. CENSUS TR. 31 2

WATER CODE F16 **SEWER CODE** 1400520

HICKS ENGINEERING COMPANY, INC.
CIVIL ENGINEERS, SURVEYORS & PLANNERS
200 E. JOPPA ROAD - SUITE 402
TOWSON, MARYLAND, 21204
TEL. (301) 494-0001

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.

Donald E. Hicks 7/3/86
DONALD E. HICKS, PE. MD REG. NO. 8676 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.

Morris L. Smith 7/16/86
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Stephen L. Huber 7-21-86
US SOIL CONSERVATION SERVICE DATE

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

John W. ... 7-23-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John ... 7-23-86
CHIEF, BUREAU OF ENGINEERING DATE

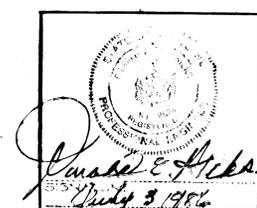
APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING AND ZONING

STORM WATER MANAGEMENT PLAN

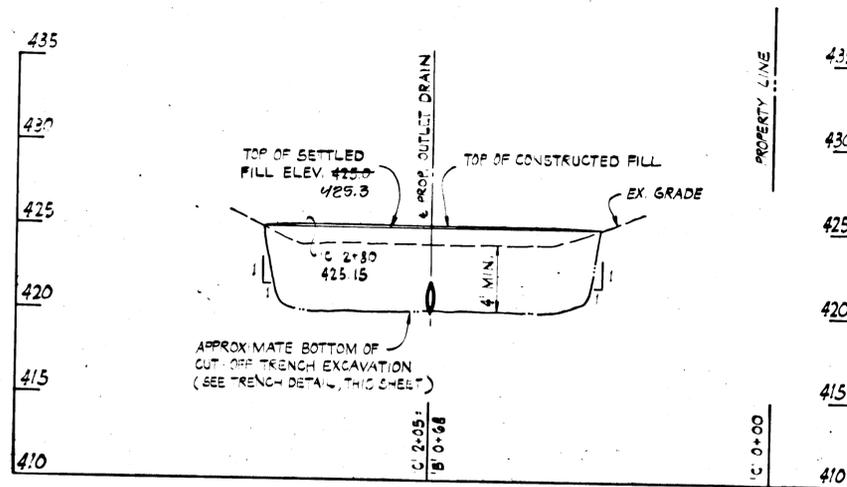
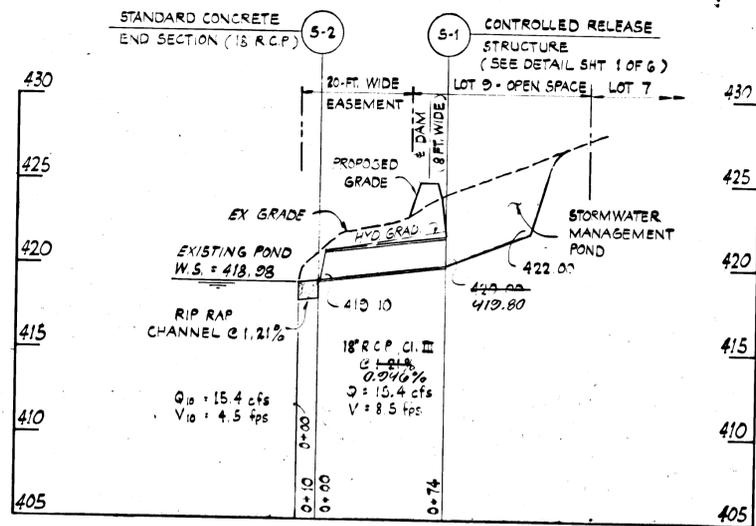
STONEBROOKE

2ND ELECTION DISTRICT HOWARD COUNTY, M.D.
TAX MAP # 31 PARCEL # 21
SCALE 1" = 50' DATE: JUNE 30, 1986
DRAWN BY: T.A.W. CHECKED BY: DEH
SHEET 1 OF 6

AS BUILT 12/20/88

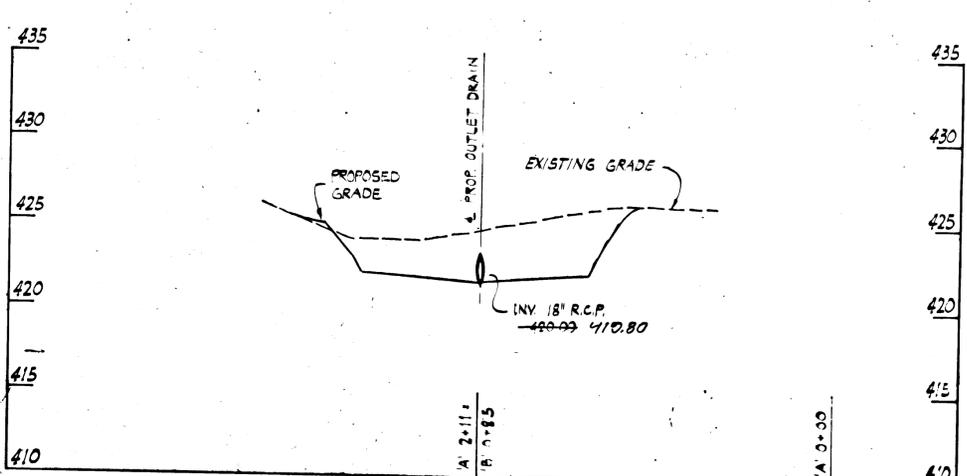


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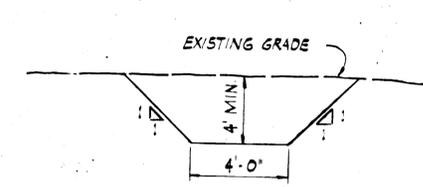


SECTION 'B-B' - PROFILE THRU OUTLET CHANNEL
 HORIZ. 1" = 50'
 VERT. 1" = 5'

SECTION 'C-C' PROFILE - CENTERLINE OF DAM
 HORIZ. 1" = 50'
 VERT. 1" = 5'



SECTION 'A-A' - PROFILE THRU SEDIMENT POND
 HORIZ. 1" = 50'
 VERT. 1" = 5'



TYPICAL SECTION CUT-OFF TRENCH
 NOT TO SCALE

PROJECT NAME: Stormwater Management Pond
 LOCATION: Stonecreek Drive, Howard County, Maryland
 SHEET: B-1
 JOB: 31-4343

DEPTH	SOIL DESCRIPTION	TEST	REMARKS
0.0 - 1.0	Surface		
1.0 - 2.0	Greyish brown, damp, medium stiff, Clayey SILT with little Sand, trace mica (ML)	1 3-3 1 DS 12	Elevations obtained from a topographic map received from Client.
2.0 - 3.0	Grey, damp, stiff, Sandy Clayey SILT, trace mica (ML)	1 7-7 2 DS 15	*** 24-hour water readings obtained on May 14, 1985 by Geotechnical Engineer.
3.0 - 4.0	Gold to grey, damp, medium stiff to stiff, Micaceous Silty SAND, trace fine Gravel, trace Clay (SM)	1 4-4 3 DS 12	
4.0 - 5.0		3 6-9 4 DS 9	
5.0 - 10.0			Test boring terminated @ 10.0'

PROJECT NAME: Stormwater Management Pond
 LOCATION: Stonecreek Drive, Howard County, Maryland
 SHEET: B-2
 JOB: 31-4343

DEPTH	SOIL DESCRIPTION	TEST	REMARKS
0.0 - 1.0	Surface		
1.0 - 2.0	Brown, damp, medium stiff, Sandy SILT, trace Clay (ML)	1 3-3 1 DS 16	Elevations obtained from a topographic map received from Client.
2.0 - 3.0	Silver and Gold, trace brown, damp, medium stiff, Micaceous Silty SAND, trace fine Gravel (SM)	1 3-3 2 DS 18	
3.0 - 4.0		3 3-3 3 DS 18	Water on Rod @ 6.0'
4.0 - 5.0		1 2-4 4 DS 18	*** 24-hour water readings obtained on May 14, 1985 by Geotechnical Engineer.
5.0 - 10.0			Test boring terminated @ 10.0'

PROJECT NAME: Stormwater Management Pond
 LOCATION: Stonecreek Drive, Howard County, Maryland
 SHEET: B-3
 JOB: 31-4343

DEPTH	SOIL DESCRIPTION	TEST	REMARKS
0.0 - 1.0	Surface		
1.0 - 2.0	Grey to brown, damp, medium stiff to stiff, Micaceous Silty SAND, trace fine Gravel, trace Clay, trace Organics (SM)	1 3-3 1 DS 13	Elevations obtained from a topographic map received from Client.
2.0 - 3.0		4 3-6 2 DS 9	*** 24-hour water readings obtained on May 14, 1985 by Geotechnical Engineer.
3.0 - 4.0		1 3-5 3 DS 10	
4.0 - 5.0	SAMPLE LOST	2 2-4 4 DS 0	
5.0 - 10.0			Test boring terminated @ 10.0'

Professional Engineer Seal for Donald E. Hicks, No. 10187, State of Maryland. Signature: Donald E. Hicks, DATE: 7/23/86.

ADDRESS CHART		SUBDIVISION NAME	
LOT NO.	STREET ADDRESS	STONEBROOKE	
		SECT. / AREA	LOT/PARCEL NO.
		31	21
WATER CODE		SEWER CODE	
FIG		1400520	

HICKS ENGINEERING COMPANY INC.
 CIVIL ENGINEERS, SURVEYORS & PLANNERS
 200 E. JOPPA ROAD - SUITE 402, TOWSON, MARYLAND, 21204
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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: Donald E. Hicks, DATE: 7/23/86

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 THE 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: Morris G. Smith, DATE: 7/16/86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: J. Helms, DATE: 7-21-86
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: Stephen L. Fuller, DATE: 7/21

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: Charles B. Redman, DATE: 7-22-86
 CHIEF, BUREAU OF ENGINEERING
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Signature: [Signature], DATE: 7-23-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

STORM WATER MANAGEMENT DETAILS AND SPECIFICATIONS FOR STONEBROOKE
 2ND ELECTION DISTRICT HOWARD COUNTY, MD.
 TAX MAP # 31 PARCEL # 21
 SCALE: AS SHOWN DATE: JUNE 30, 1986
 DRAWN BY: T.A.W. CHECKED BY: D.E.H.
 SHEET 2 OF 6

SOIL CONSERVATION SERVICE
MARYLAND
CONSTRUCTION SPECIFICATIONS
FOR
PONDS

These specifications are appropriate for 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 sheepsfoot, 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.

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, Plast-Coat, Blar-Klad, and Beth-Cor-Low. Coated corrugated steel pipe shall meet the requirements of ASTM M-245 and M-246.

Materials - (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-195 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, and sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

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.

B. Reinforced Concrete Pipe

1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal ASTM Specification C-361. An approved equivalent is AWA Specification C-301.

2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for the entire length. This bedding shall consist of high alum concrete placed under the pipe and up the sides of the pipe at least 10X of its outside diameter with a minimum thickness of 3", or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

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

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

C. For pipes of other materials, specific specifications shall be 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 predicated on proper control of the speed of rotation of the mixer and on 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 re-secure 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 the rods, ridges on all concrete surfaces permanently exposed to view or exposed to water or 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. Measures 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 compounds 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 slightly 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.

PERMANENT SEEDING NOTES

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

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

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 sq 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 15 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

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

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

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

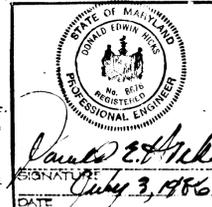
Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

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

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 4.07 Acres
Area Disturbed 4.31 Acres
Area to be roofed or paved _____ Acres
Area to be vegetatively stabilized _____ Acres
Total Cut 1030 Cu. yds
Total Fill 245 Cu. yds
Offsite waste/borrow area location _____ UNDETERMINED
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DWS 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.



ADDRESS CHART		SUBDIVISION NAME	
LOT NO.	STREET ADDRESS	STONEBROOKE	21
		PLAT NO. OR L/F BLOCK NO. ZONE	TAX/ZONE MAP/ELECT. DIST./CENSUS TR.
		1072 / G37	31 2
		WATER CODE	SEWER CODE
		F 16	1400520

STORM WATER MANAGEMENT SPECIFICATIONS

STONEBROOKE

2ND ELECTION DISTRICT HOWARD COUNTY, MD.
TAX MAP #31 PARCEL #21
SCALE: N/A DATE: JUNE 30, 1986
DRAWN BY: N/A CHECKED BY: D.E.H.
SHEET 3 OF 6

AS BUILT 6-20-91

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

Richard B. R... 7-21-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Richard B. R... 7-23-86
CHIEF, DIVISION OF PLANNING AND ZONING ADMINISTRATION DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

D. Helms 7-21-86
U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen L. Hicks 7/23/86
DISTRICT MANAGER 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 COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Marnie E. Smith 7/16/86
SIGNATURE OF DEVELOPER DATE

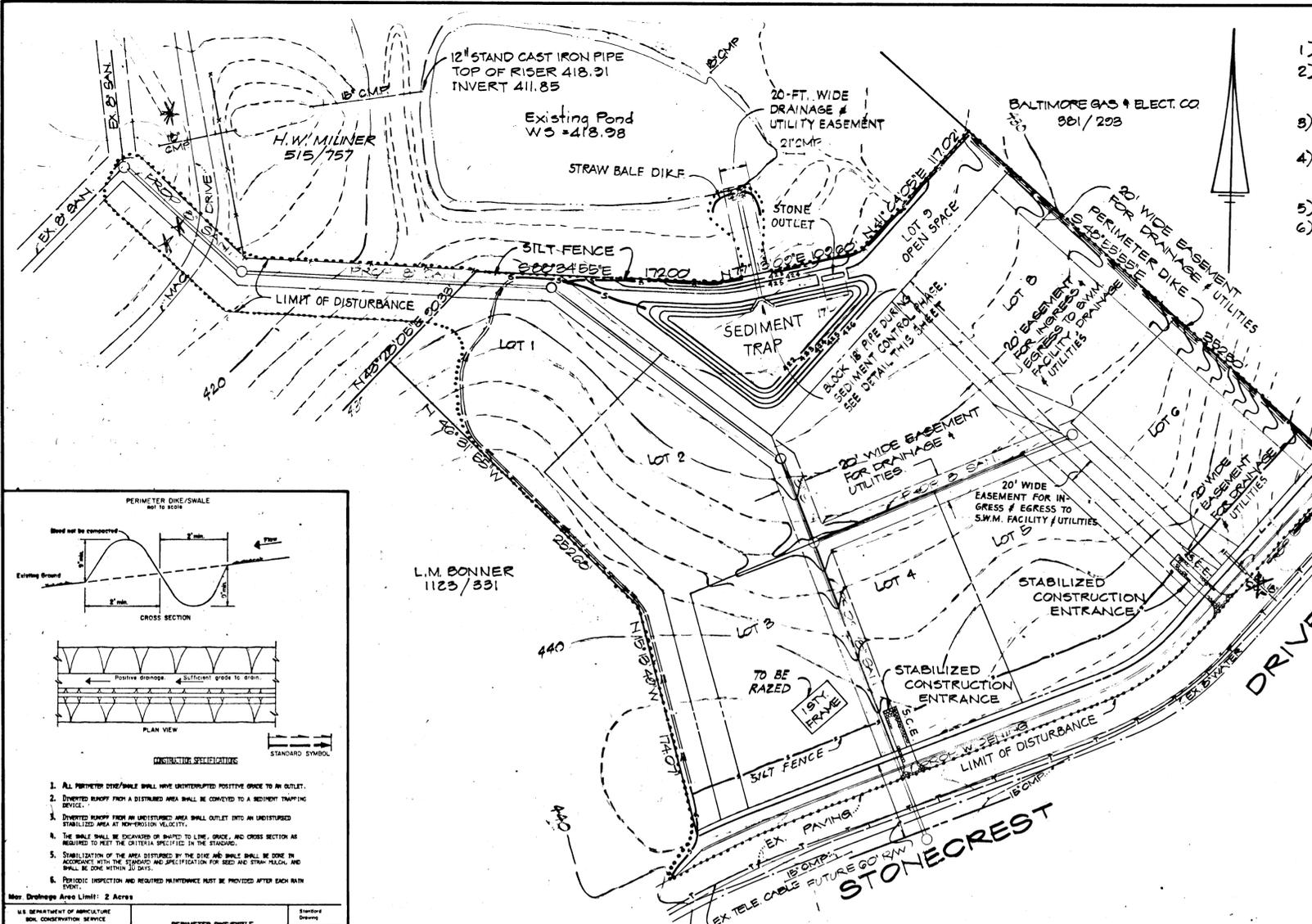
ENGINEER'S CERTIFICATE

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 COUNTY SOIL CONSERVATION DISTRICT.

Donald E. Hicks 7/3/86
DONALD E. HICKS, P.E. MD REG. NO. 8676 DATE

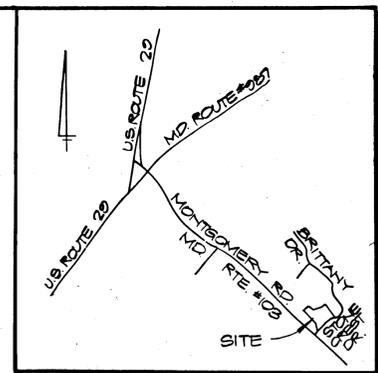
HICKS ENGINEERING COMPANY, INC.
CIVIL ENGINEERS,
SURVEYORS & PLANNERS
200 E. JOPPA ROAD - SUITE 402
TOWSON
MARYLAND, 21204
TEL. (301) 494-0001

1225



SEQUENCE OF CONSTRUCTION

- 1) OBTAIN THE REQUIRED GRADING PERMIT. 1 DAY
 - 2) NOTIFY HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS AND PERMITS THREE (3) WORKING DAYS PRIOR TO GRADING OPERATION. 3 DAYS
 - 3) INSTALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLAN. 2 DAYS
 - 4) PERFORM NECESSARY GRADING TO DEVELOPE THE STORM WATER MANAGEMENT POND (SEDIMENT TRAP) INCLUDING STONE OUTLET. 14 DAYS
 - 5) COMPLETE REMAINING SITE GRADING. 2 DAYS
 - 6) VEGETATIVELY STABILIZE ALL APPROPRIATE AREAS. 2 DAYS
- AFTER APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES (INCLUDING FILLING OF STONE OUTLET WINDOW) AND STABILIZE AREAS, AS REQUIRED. 3 DAYS



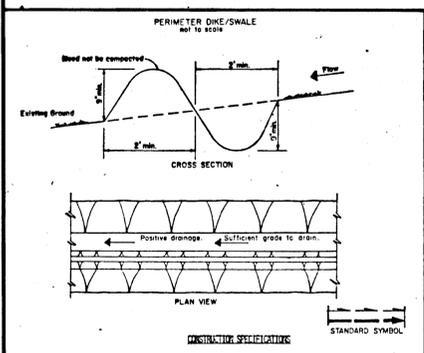
VICINITY MAP
SCALE: 1"=2000'

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 redistribution, 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: 4.07 Acres
Area Disturbed: 4.81 Acres
Area to be roofed or paved: - Acres
Area to be vegetatively stabilized: 0.71 Acres
Total Cut: 1080 Cu. yds
Total Fill: 265 Cu. yds
Offsite waste/borrow area location: UNDETERMINED
- 8) Any sediment control practice which is disturbed by grading activity for foundations or utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DWM 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.

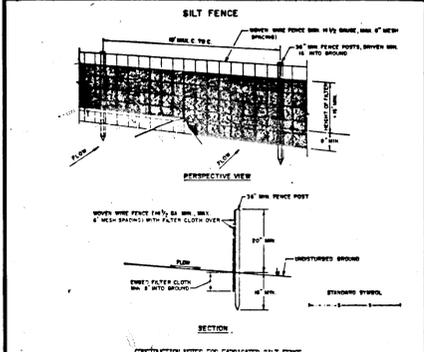
LEGEND

- LIMIT OF DISTURBANCE
- PERIMETER DIKE
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE



1. All perimeter dike/swale shall have undisturbed positive grade to an outlet.
2. Diverter runoff from a disturbed area shall be conveyed to a sediment trapping device.
3. Diverter runoff from an undisturbed area shall outlet into an undisturbed stabilized area at non-erosion velocity.
4. The dike 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 30 days.
6. Periodic inspection and required maintenance must be provided after each rain event.

Max. Drainage Area Limit: 2 Acres
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

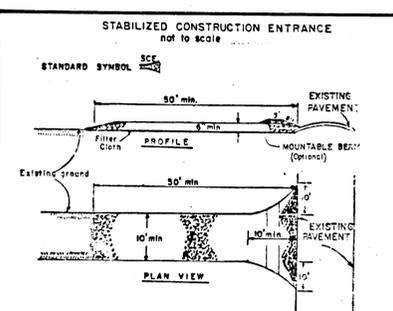
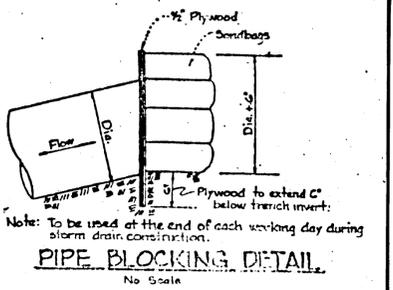


1. When wire fence is to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to wooden fence posts with ties spaced every 2' at top and mid section.
3. Mid the sections of filter cloth, install a wooden board or other material to overlap by six inches and nailed.
4. Maintenance shall be performed as follows: a) periodic inspection; b) removal of sediment; c) replacement of filter cloth when needed.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

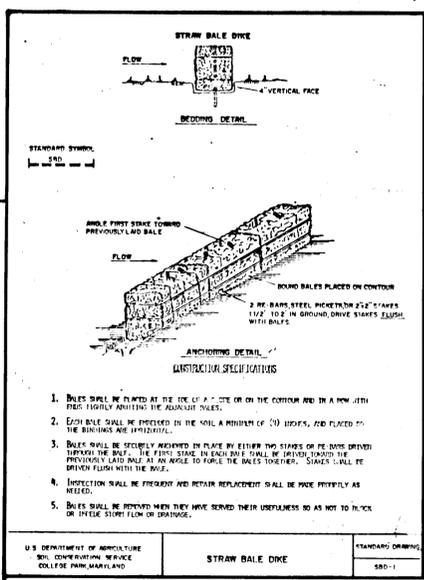
SEDIMENT TRAP

TYPE OF TRAP = STONE OUTLET SEDIMENT TRAP V.
DRAINAGE AREA = 4.20 ACRES MORE OR LESS
VOLUME REQUIRED = 7,560 CU. FT.
VOLUME PROVIDED = 10,300 CU. FT.
TRAP SIZE = 48' - 25' x 250'
DEPTH OF TRAP = 1.5'
CREST ELEV. = 424.5'
BOTTOM ELEV. = 423.0'
CLEANOUT ELEV. = 423.75'
CREST LENGTH = 17.0'



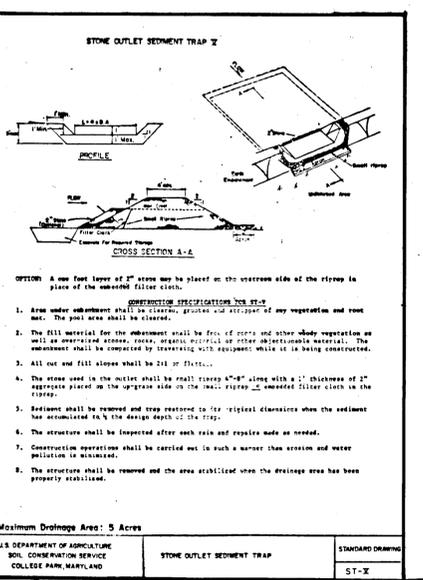
1. Bales shall be placed at the top of a 2' x 4' or on the contour and in a new trench 1/2" deep, 1/2" wide, 1/2" high.
2. Each bale shall be placed in the soil a minimum of 100 hours, and placed to the binding and level.
3. Bales shall be securely washed in place by either two hoses or two hoses driven through the soil. The first hose in each row shall be driven through the soil and the second hose shall be driven through the soil. Since bales will be driven through the soil, they shall be replaced as needed.
4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MD



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U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND



1. Area under sediment shall be cleared, graded and strip of any vegetation and rock mat. The soil area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as gravel, stones, trees, stumps, or other objectionable material. The embankment shall be covered by covering with sediment, mulch or, being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be real stone 4" x 8" along with a 1" thickness of 2" aggregate placed on the upstream side of the outlet. The outlet shall be covered with filter cloth in the outlet.
5. Sediment shall be removed and traps washed in 72" intervals when the sediment has accumulated to 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.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

ADDRESS CHART

LOT NO.	STREET ADDRESS
	STONEBROOKE

SUBDIVISION NAME

LOT NO.	STREET ADDRESS	SECT./AREA	LOT/PARCEL NO.
	STONEBROOKE		21

WATER CODE F16 **SEWER CODE** 1400520

SEDIMENT CONTROL PLAN
STONEBROOKE
2ND ELECTION DISTRICT, HOWARD COUNTY, MD.
TAX MAP #31 PARCEL #21
SCALE: 1" = 50' DATE: JUNE 30, 1986
DRAWN BY: T.A.W. CHECKED BY: D.E.H.
SHEET 4 OF 6

HICKS ENGINEERING COMPANY, INC.
CIVIL ENGINEERS,
SURVEYORS & PLANNERS
200 E. JOPPA ROAD - SUITE 402
TOWSON,
MARYLAND, 21204
TEL. (301) 494-0001

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.

Donald E. Hicks, P.E. MD REG. NO. 8676
DATE: 7/2/86

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 THE 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.

Morris J. Smith
SIGNATURE OF DEVELOPER
DATE: 7/16/86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

D. Nelson
U.S. SOIL CONSERVATION SERVICE
DATE: 7-21-86

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

APPROVED: Stephen L. Fisher
DISTRICT MANAGER
DATE: 7/21/86

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

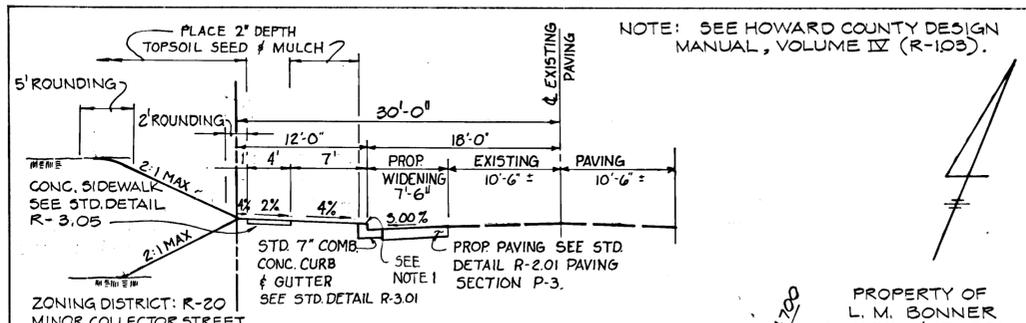
APPROVED: Howard County Office of Planning and Zoning

Chief, Bureau of Engineering
DATE: 7-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration
DATE: 7-23-86

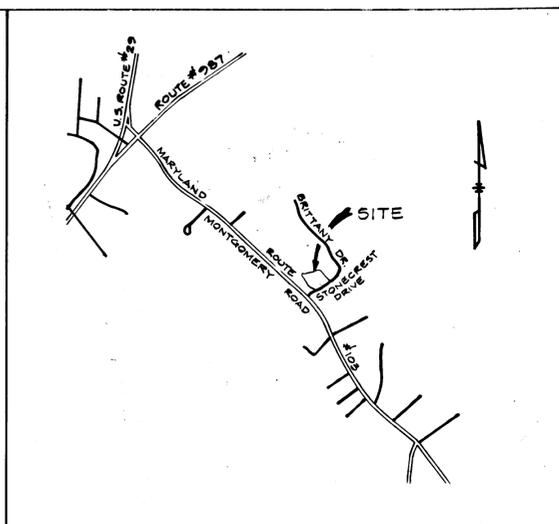
Professional Engineer Seal
Donald E. Hicks
Professional Engineer
No. 1225
Date: July 3, 1986



CURVE DATA

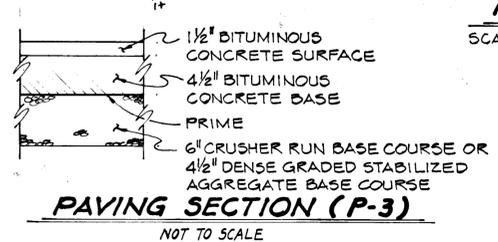
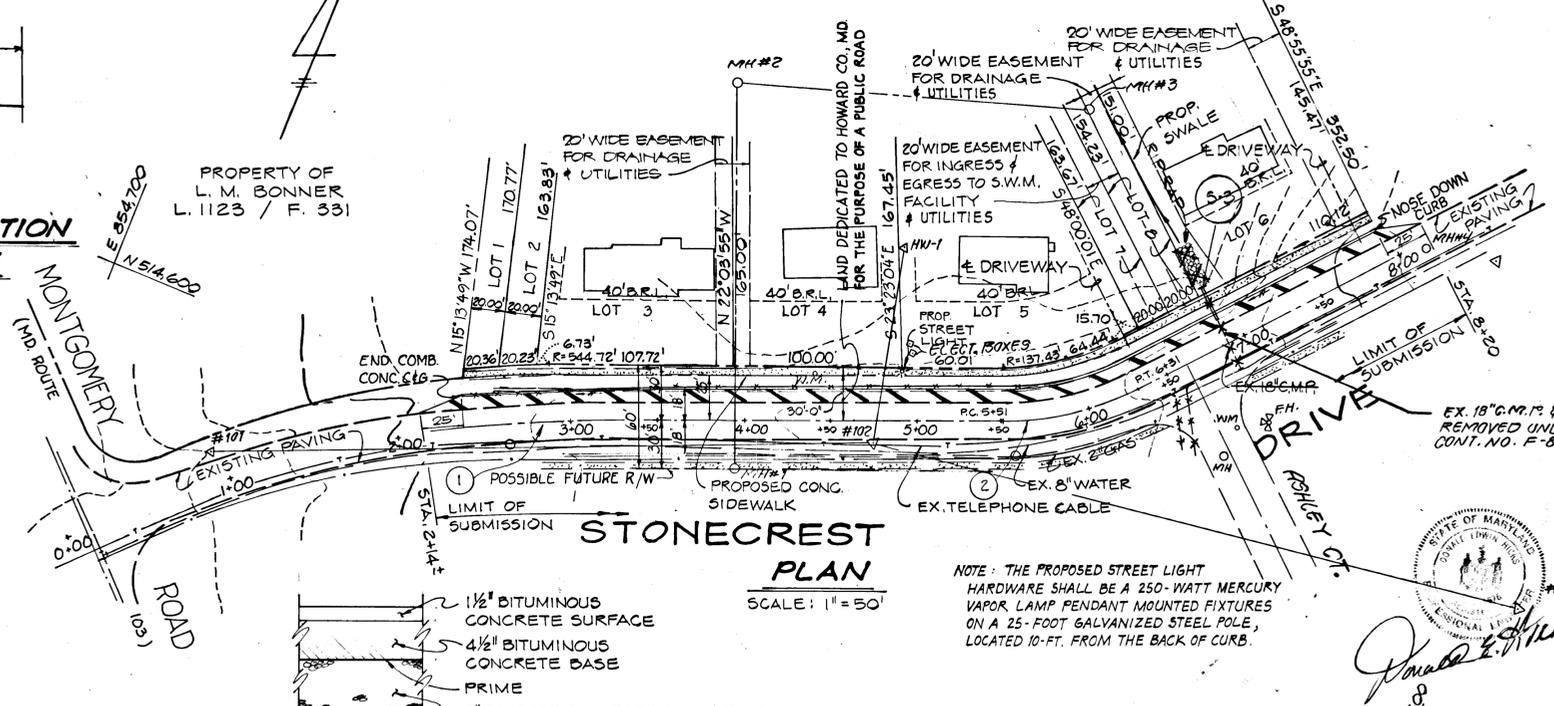
NO.	RADIUS	Δ	ARC	TANGENT	CHD. DIST.	CHD. BEAR.
1	514.72'	04° 58' 37"	44.71'	22.37'	44.70'	N 65° 26' 46" E
2	167.43'	26° 52' 00"	78.51'	39.99'	77.79'	N 54° 30' 05" E

PROPERTY OF THE BALTIMORE GAS & ELECTRIC COMPANY
 L. 381 / F. 293



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD COUNTY & MARYLAND STATE HIGHWAY ADMINISTRATION.
- TRENCH COMPACTION FOR STORM DRAINS WITHIN ROAD OR STREET RIGHT-OF-WAY LIMITS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOL. IV.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM SURVEYS & AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS, BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.



APPROVED: DEPARTMENT OF PUBLIC WORKS

John M. Waik 7-28-86
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John M. Waik 7-23-86
 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION DATE

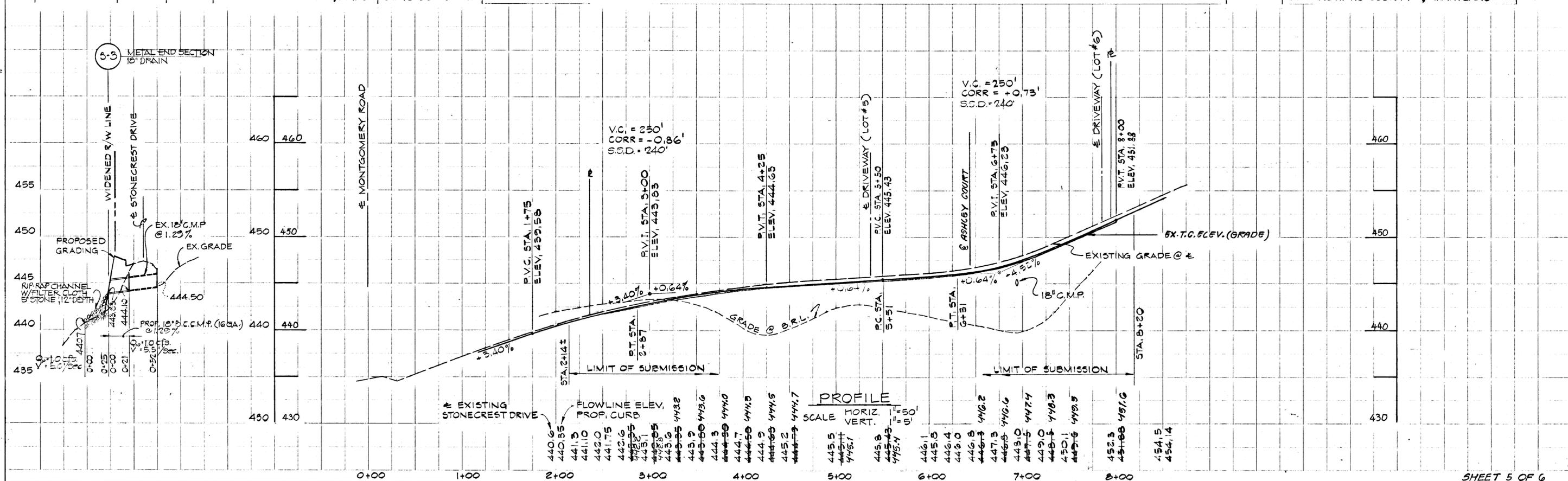
DESIGNED: ROAD CONSTRUCTION AND STORM DRAINS PLAN AND PROFILE
 T.A. WAIRE

CHECKED: D.E. HICKS

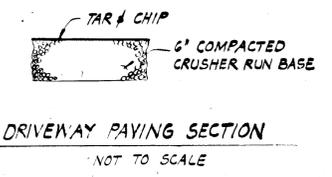
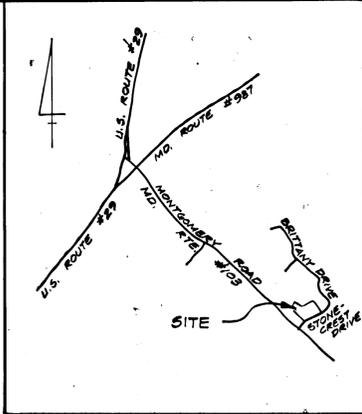
SCALE: AS SHOWN
 DRWG. NO. 6 OF 7

STRUCTURE SCHEDULE

NO.	TYPE	INVERT IN	OUT	REMARKS	LOCATION
5-3	END SECTION	444.10	443.83	HO. CO. STD. # 5 D 5.32, DIA. 18"	STA. 6+90 - 36' LT.

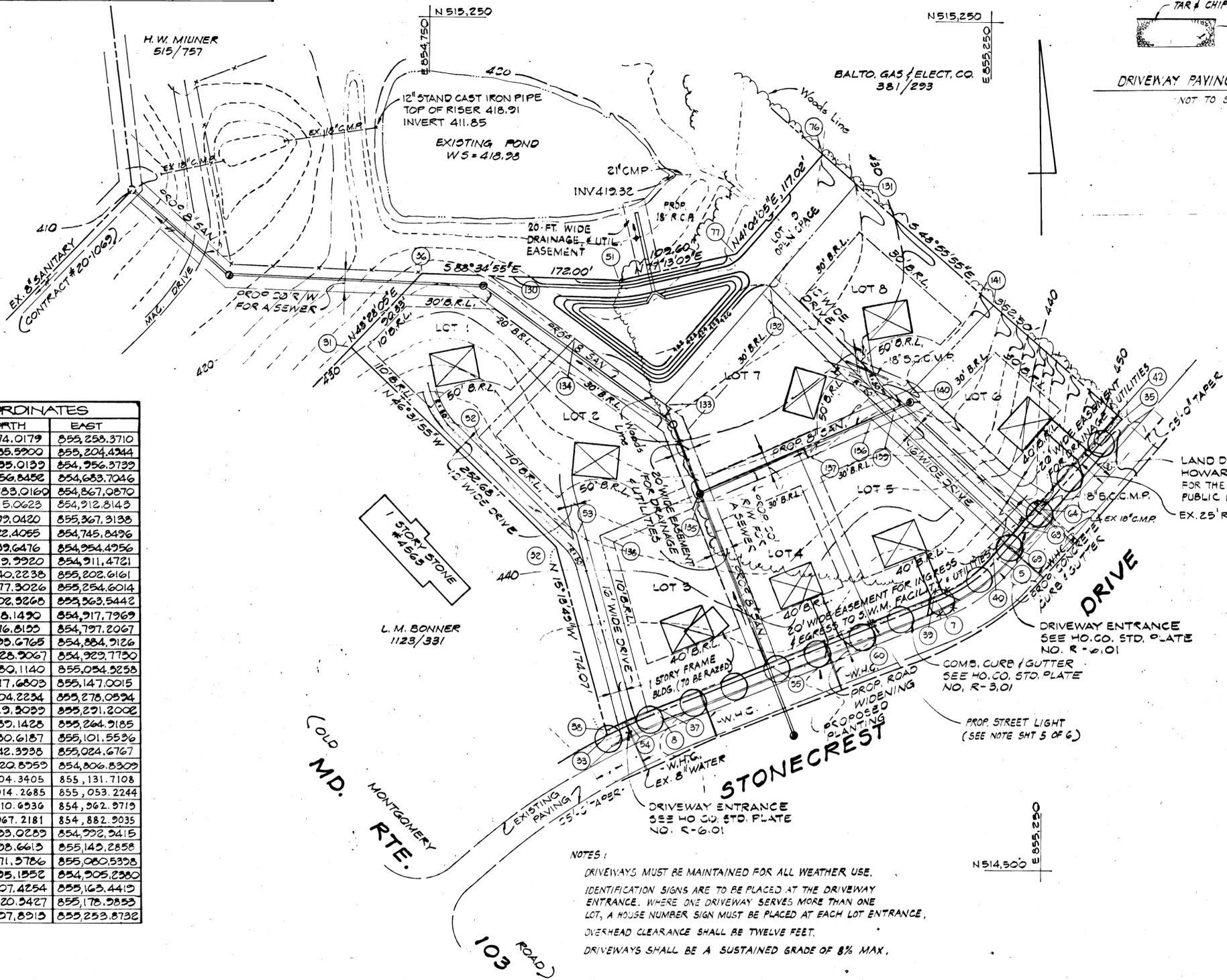


CURVE		DATA				
NO.	RADIUS	Δ	ARC	TAN	CHD. DIST.	CHD. BEARING
40-39	137.43'	26°52'00"	64.44'	32.82'	63.85'	554°30'05"W
37-38	544.72'	04°58'37"	47.32'	23.67'	47.30'	565°27'47"W



VICINITY MAP
SCALE: 1"=2,000'

COORDINATES		
NO	NORTH	EAST
5	514,774.0179	855,258.3710
7	514,755.5900	855,204.4244
8	514,635.0139	854,956.3739
31	514,956.8452	854,683.7046
32	514,783.0169	854,867.0870
33	514,615.0623	854,912.8143
35	514,679.0420	855,367.3138
36	515,022.4055	854,745.8426
37	514,639.6476	854,954.4756
38	514,619.9920	854,911.4721
39	514,740.2238	855,202.6161
40	514,777.3026	855,254.6014
42	514,902.3268	855,563.5442
51	515,016.1490	854,917.7969
52	514,876.8199	854,797.2067
53	514,793.6765	854,884.9126
54	514,628.9067	854,923.7730
55	514,680.1140	855,054.3258
60	514,717.6803	855,147.0015
63	514,804.2234	855,278.0594
64	514,819.2099	855,291.2006
69	514,789.1428	855,264.9185
76	515,130.6187	855,101.5536
77	515,042.3938	855,024.6767
130	515,020.8959	854,806.8309
131	515,104.3405	855,131.7108
132	515,014.2685	855,053.2244
133	514,910.6936	854,962.9719
134	514,967.2181	854,882.9035
135	514,833.0289	854,992.9415
136	514,898.6613	855,143.2858
137	514,871.5786	855,080.5398
138	514,795.1852	854,905.2380
139	514,907.4254	855,163.4419
140	514,920.3427	855,178.9853
141	514,927.8913	855,253.8732



NOTES:
 DRIVEWAYS MUST BE MAINTAINED FOR ALL WEATHER USE.
 IDENTIFICATION SIGNS ARE TO BE PLACED AT THE DRIVEWAY ENTRANCE. WHERE ONE DRIVEWAY SERVES MORE THAN ONE LOT, A HOUSE NUMBER SIGN MUST BE PLACED AT EACH LOT ENTRANCE.
 OVERHEAD CLEARANCE SHALL BE TWELVE FEET.
 DRIVEWAYS SHALL BE A SUSTAINED GRADE OF 8% MAX.

PLANTING REQUIREMENTS
 13 X TILIA CORDATA 'GREENSPIRE' (GREENSPIRE LINDEN)
 2 1/2" MIN. CALIPER, 12'-14" TALL 40' O.C. 84B

SEDIMENT CONTROL NOTE FOR LAND DEVELOPMENT
 Sediment Control Devices will be maintained in functioning condition until all lots are stabilized and approval for removal has been obtained from the Sediment Control Inspector.

OWNER/DEVELOPER:
 MR. MORRIS G. SMITH
 8306 ELKO DRIVE
 ELLICOTT CITY, MARYLAND 21043

Signature of Donald E. Hicks, P.E.
 DATE: June 3, 1986

ADDRESS CHART		SUBDIVISION NAME		SECT. / AREA		LC. PARCE. NO.	
LOT NO.	STREET ADDRESS	STONEBROOKE		21			
		PLAT No. OR L/F	BLOCK No.	ZONE	TAX / ZONEMAP	ELECT. DIST.	CENSUS TR.
		1072 / 637			31	2	
		WATER CODE		SEWER CODE			
		F16		1400520			

HICKS ENGINEERING COMPANY, INC.
 CIVIL ENGINEERS, SURVEYORS & PLANNERS
 200 E. JOPPA ROAD - SUITE 402
 TOWSON
 MARYLAND, 21204
 TEL. (301) 494-0001

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 Signature: Donald E. Hicks
 DATE: 7/1/86

DEVELOPER'S CERTIFICATE
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 Signature: Morris G. Smith
 DATE: 7/16/86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: J. Haber
 DATE: 7-21-86
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: Signature: Stephen L. Haber
 DATE: 7/1/86
 DISTRICT MANAGER
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: [Signature]
 DATE: 7-21-86
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Signature: [Signature]
 DATE: 7-23-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

STREET TREE PLAN AND HOUSE LOCATION PLAN FOR LOTS 1, 2, 7 & 8
STONEBROOKE
 2ND ELECTION DIST. HOWARD COUNTY, MD.
 TAX MAP #31 PARCEL #21
 SCALE: 1"=50' DATE: JUNE 30, 1986
 DRAWN BY: T.A.W. CHECKED BY: D.E.H.
 SHEET 6 OF 6

1225