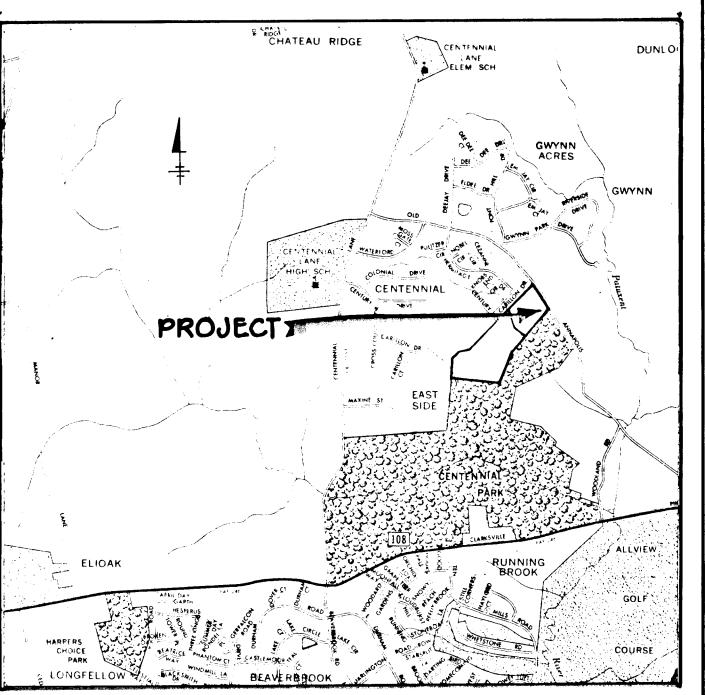
	SHEET INDEX	
NO.	DESCRIPTION	
1	TITLE SHEET	
S	PLAN AND PROFILES OF ROADWAYS	
3	PLAN AND PROFILE OF ROADWAY AND DETAILS	
4	STORM NOAIN PROFILES AND DETAILS	

SEDIMENT CONTROL DETAILS

ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT

THE WILLOWS SECTION 1, AREA 1 2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP

GENERAL NOTE:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS
- 4. CONTRACTOR SHALL NOTIFIY THE FOLLOWING UTILITIES AT LEASE FIVE (5) DAYS BEFORE STARTING

MISS UTILITY

BELL TELEPHONE SYSTEM

LONG DISTANCE CABLE DIVISION

BALTIMORE GAS AND ELECTRIC COMPANY
HOWARD COUNTY BUREAU OF UTILITIES
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY
DIVISION (24 HOURS NOTICE PRIOR TO COMMENCE—MENT OF WORK)

559-0100
393-3649
539-8000, ext. 691
992-2366
992-2366
792-7272

- 5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS
- 6. ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
- 7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 EDITION.
- 9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- 10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY

ALL 50 RIGHT-OF-WAYS 25 M.P.H.

- 11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- 12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- 13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- 15. SUBJECT PROPERTY ZONED R-20 PER 8-2-85 COMPREHESIVE ZONING PLAN.

14,000 TO 15,999

1.164 Ac t

2.785 Act

13.017Ac.±

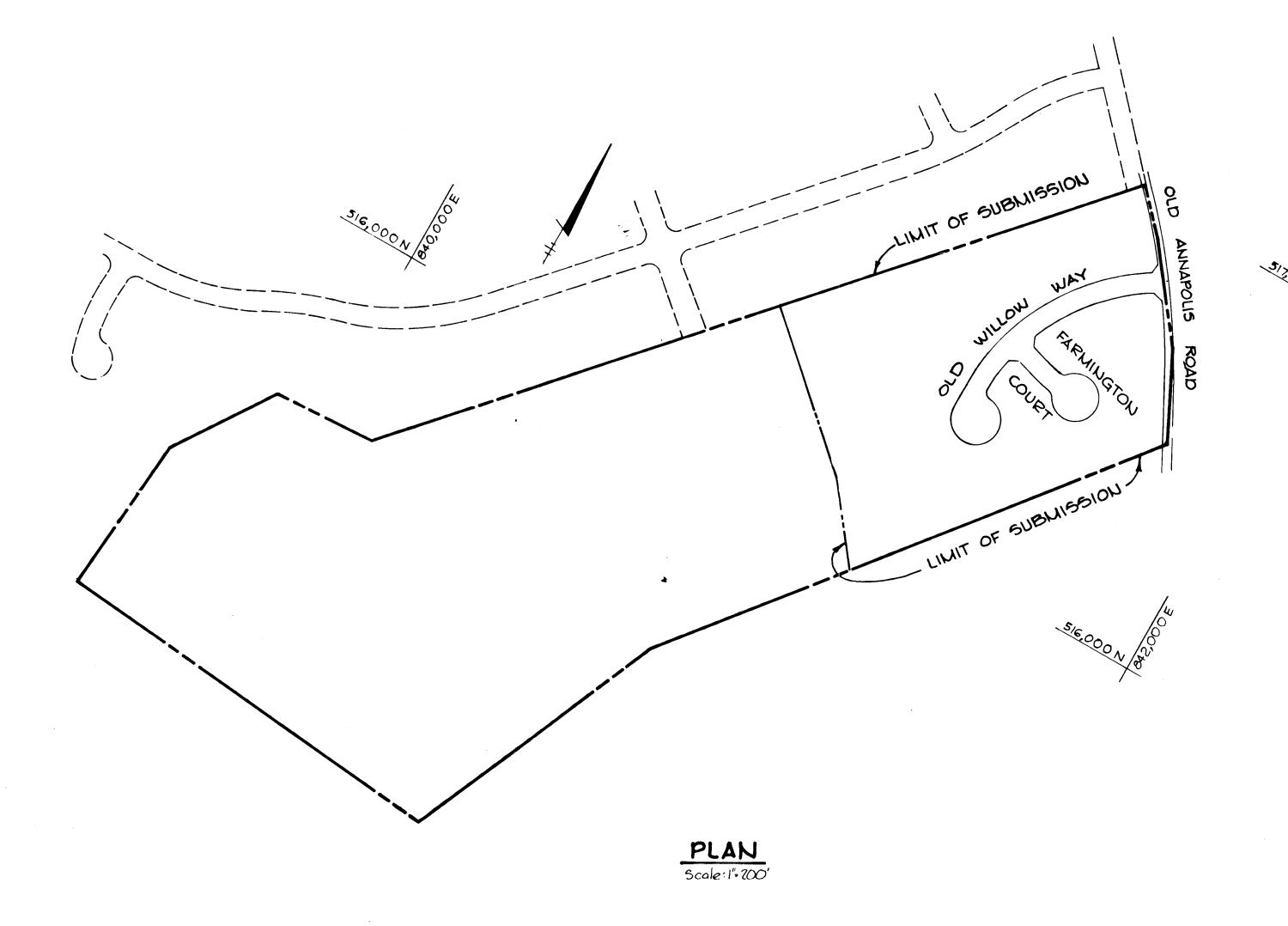
- 16. TOPO TAKEN FROM FIELD RUN SURVEY DATED SEPT , 1980
- 17. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED
- 18. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- 19. REFERENCE TO OFFICE OF PLANNING AND ZONING FILES 5-80-18, P-80-28, P-85-27 & F-81-78

OPEN SPACE TABULATION

OPEN SPACE PROVIDED ACRES

11.853 Act

3.827



4-----

AS-BUILT SURVEY CERTIFIED BY
ARTHUR E. MUEGGE, MD. P.E.
No. 8707, ON 5-19-87

THE WILLOWS

CHATEAU BUILDERS, INC.

BIOO WOODED GLEN CT.

REVISION

1) B.M. HOWARD COUNTY MON. 3041002 EL.424.520

2) B.M. HOWARD COUNTY MON. 3041003 E1.417.165

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DEVELOPMENT AND ZONING

ADMINISTRATION

OWNER / DEVELOPER

SECTION 1, AREA 1 LOTS 1 THRU 22

TAX MAP NOS. 24 \$30

700 ELECTION DISTRICT

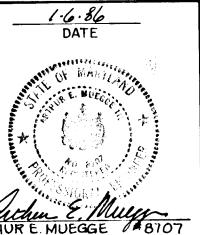
HOWARD COUNTY, MARYLAND

TITLE:

THE RIEMER GROUP, INC

A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM .3105 HEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043 301 461-2690

TITLE SHEET



DESIGNED BY: L.J.D.

DRAWN BY: L.5.T.

PROJECT NO: 15803

PARCEL 160

DATE: JANUARY 2, 1986 SCALE: AS SHOWN

TABULATION FOR DRY LANDS

1. OPEN SPACE REQUIRED
2 TOTAL AREA OF FLOODPLAIN

2. TOTAL AREA OF FLOODPLAIN
3. FLOODPLAIN CREDITED TO OPEN SPACE
4. TOTAL AREA OF STORM WATER MANAGEMENT

4. TOTAL AREA OF STORM WATER MANAGEMENT
5. STORM WATER MANAGEMENT AREA CREDITED TO OPEN SPACE

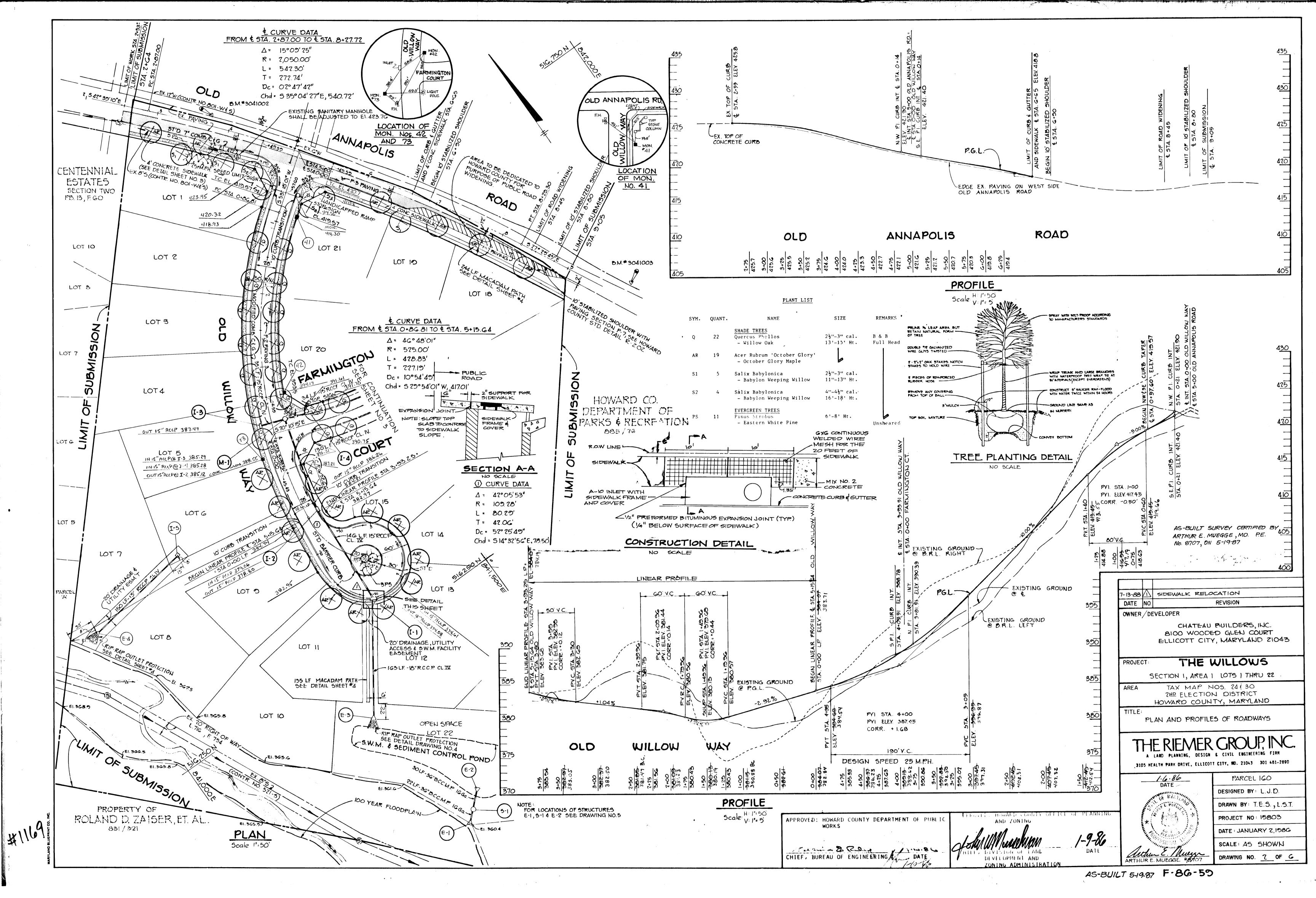
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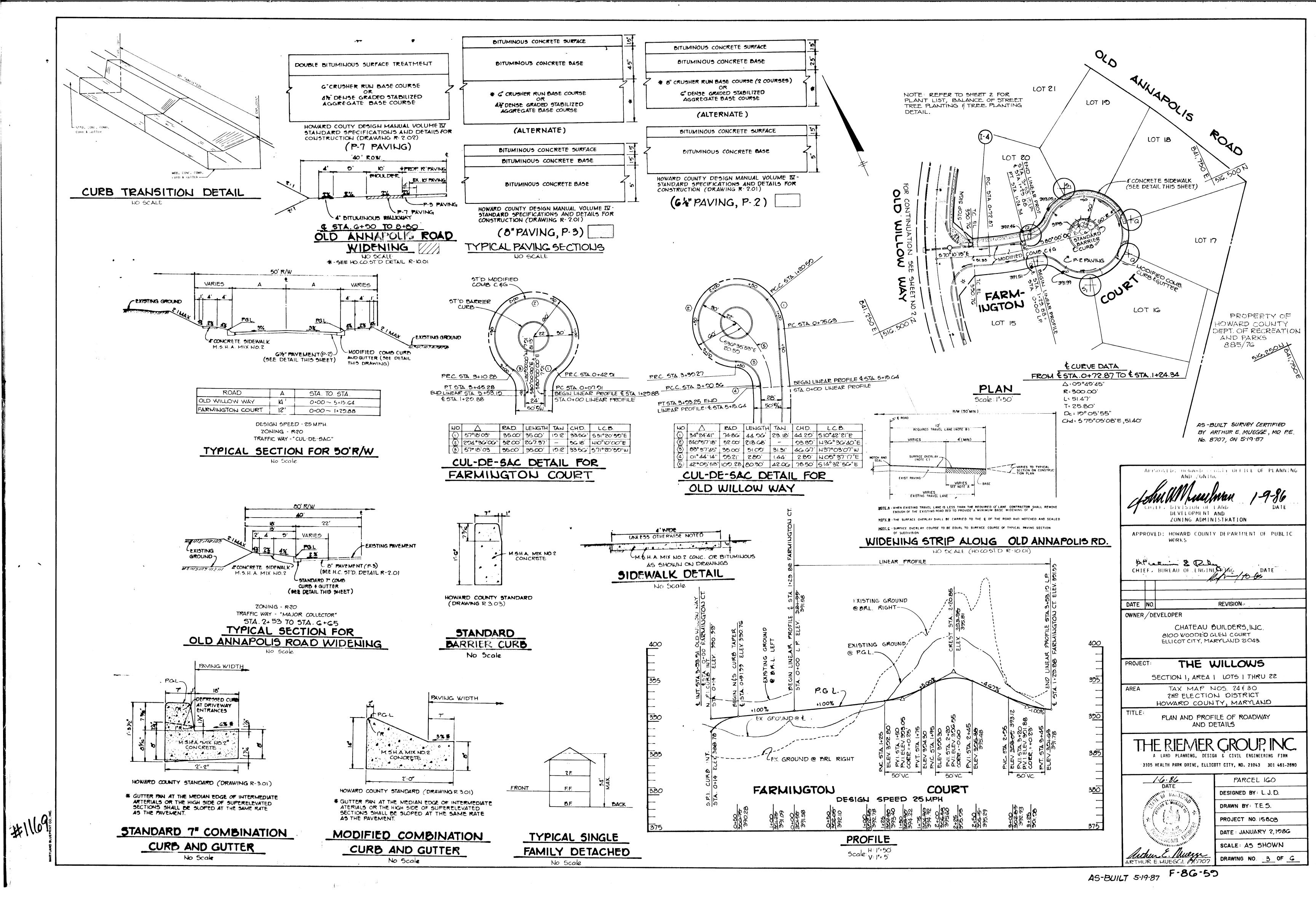
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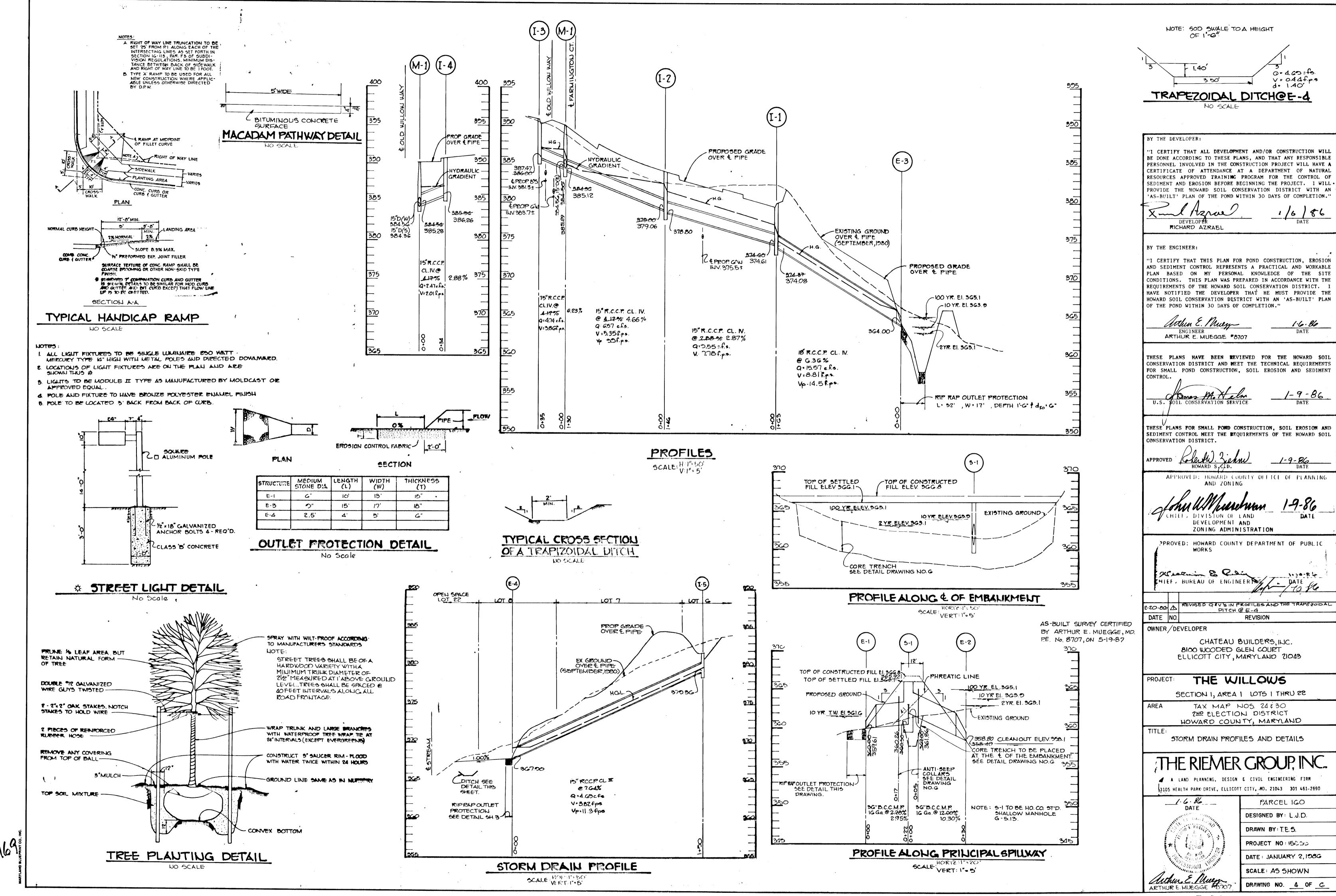
DENSITY TABULATION

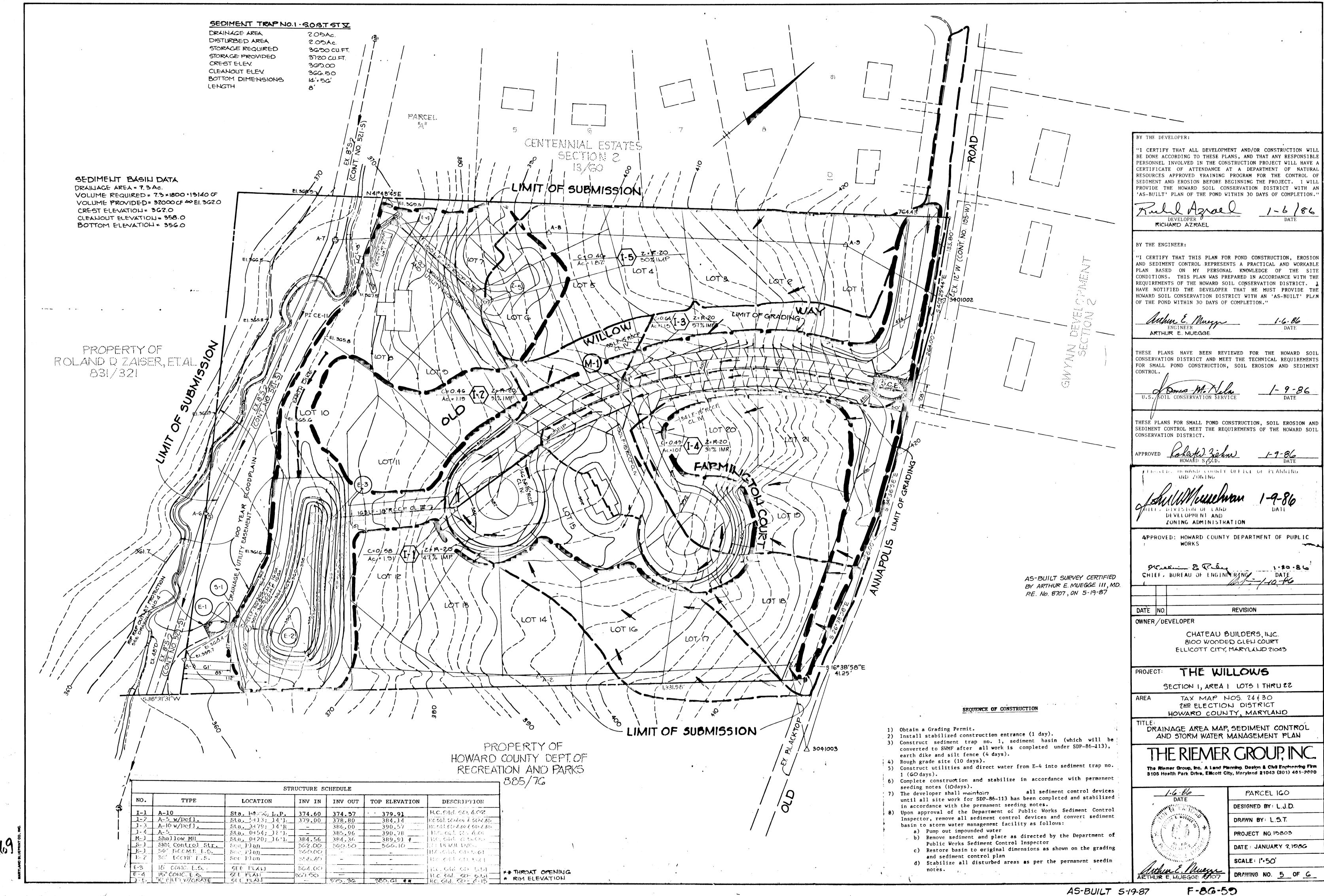
O.S. GROSS FLOOD PLAIN NET NO. OF DENSITY PROVIDED AREA STEEP SLOPES AREA UNITS ALLOWED LOT ADJUSTMENT D.U. ALLOWED D.U. PROPOSED PER ACRE

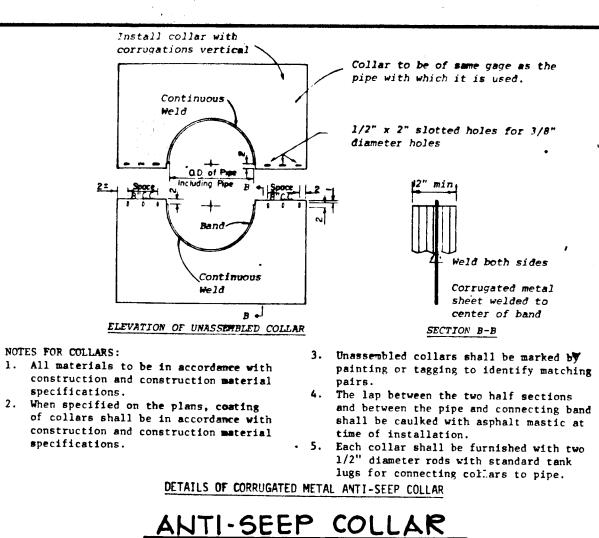
AS-BUILT 5-19-87 F-8G-53











SEDIMENT CONTROL NOTES

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 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) sod (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	12.28 acres
	Area Disturbed	3.4 acres
	Area to be roofed or paved	1.0 acres
	Area to be vegetatively stabilized	7.4 acres
	Total Cut	1967 Cu. yds.
	total Fill	5300 Cu. yds.
	The state of the s	

- 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of distrubance.
- 9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- 11. Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

PERMANENT SEEDING NOTES

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

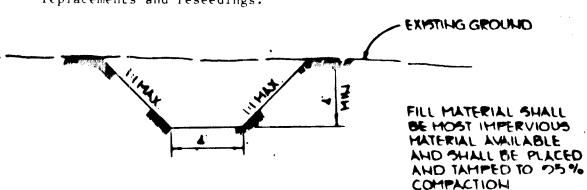
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre. Harrow or disc lime and 0-20-20 fertilizer into the soil to a minimum depth of 3". Lawns or high maintenance areas will be dragged and leveled with a York rake. At the time of seeding, apply 400 lbs. of 30-0-0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs. per acre (1 lb/1000 sq.ft.) of a mixture of certified 'Merion' Kentucky bluegrass; common Ketucky bluegrass @ 40 lbs. per acre (1 lb./1000 sq.ft.) and Red Fescue, Pennlawn or Jamestown @ 20 lbs'. per acre (0.5 lb./1000 sq.ft.) for the period May 1 thru July 31, seed with 40-40-20 mix as specified above and 2 lbs. per acre (0.05 1bs./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 40-40-20 mix specified above 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.



CORE TRENCH TYP. SECTION

HO SCALE

STABILIZATION AS REQUIRED. ON STEEP SLOPES EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH AT FLOW DEPTH

STANDARD SYMBOL

ALL DIKES SHALL BE COMPACTED BY EARTH-HOVING EQUIPMENT. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET. TOP WIDTH MAY BE MIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE PROSSING BY CONSTRUCTION TRAFFIC.

FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.

EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF ENOSION. PLANOFF
SHALL BE CONNEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT
BASIN MIERE FITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT

CONSTRUCTION SPECIFICATIONS

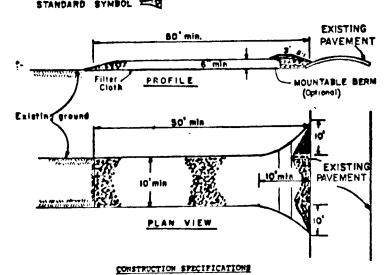
ADEQUATELY STABILIZED.

5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OF STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER

THE CHART	BELOW.	FLOW CHANNEL STABILIZATION	
		FLOW CHANKE STREET, TALLINE	
TYPE CE IREAIMENI	CHANNEL GRAVE	DIKE A	DIKE B
1	.5-3.0¤	SEED AND STRAM PLACH	SEED AND STRAY MULCH
2	3.1-5.0%	SEED AND STRAM MULCH	SEED USING JUTE, OR EXCELSION; 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
B. RIP-RAP THE SOIL	IN THICKNESS AND BE TO BE 4-8 INCHES I	OR RECYCLED CONCRETE EQUIVALE: PRESSED INTO THE SOIL WITH C IN A LAYER AT LEAST 8 INCHES TO BE SUBSTITUTED FOR ANY OF THE A RIFED MAINTENANCE HIST BE PROV	ONSTRUCTION EQUIPMENT, HICKNESS AND PRESSED INTO

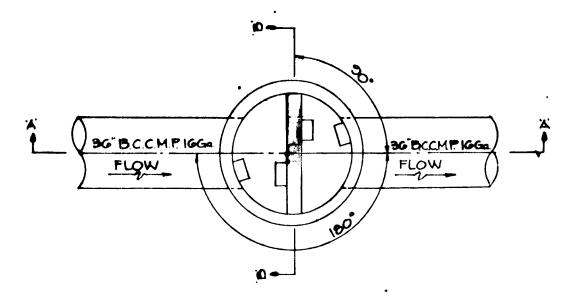
EARTH DIKE

STABILIZED CONSTRUCTION ENTRANCE



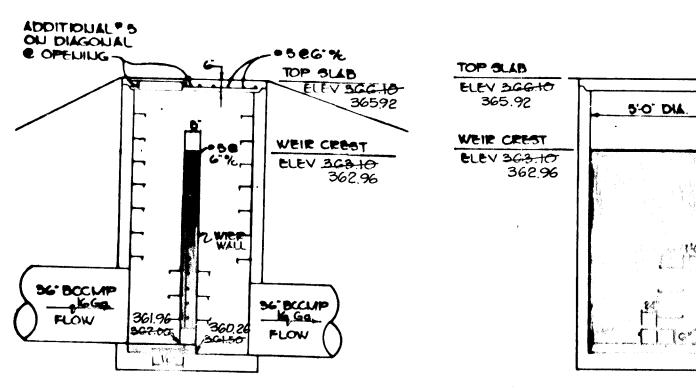
- Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent.
 Length As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply). Thickness - Not less than six (6) inches.
- 4. Width Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs. Filter Cloth - Will be placed over the entire area prior to placing of stone
- Filter will not be required on a single fasily residence lot.

 6. Surface Mater All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with \$12 slopes will be permitted Naintenance - 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 ediment spilled, dropped, washed by tracked onto public rights-of-way must
- 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 9. Periodic inspection and needed meintenence shall be provided after and se
- HOTES I ALL WORK AND MATERIALS TO BE IN ACCOMPANCE WITH HO. CO. STAUPARD DETAIL G-5.13 5' DIA. STANDARD PRECAST MANHOLE EXCEPT FOR MODIFICATIONS TO TOP SLAB MALHOLE STEPS AND WEIR WALL.
- ? ALL REBAR SHALL HAVE A ?" MIU. CLEARCOVER. 3 MANHOLE OPENING SHALL BE A SIDE
- WALK FRAME AND COVER PER HO.CO. STO DETAIL SD-3.91 4. DOWEL EVERY OTHER HORIZOLITAL REBAR IN WICE WALL 4" INTO LIALI-HOLE WALLS. GROUT HOLES WITH LIOU-SHRINK GROUT PRIOR TO POURING WEIR WALL



PLAN

STABILIZED CONSTRUCTION ENTRANCE



SECTION A-A SECTION B-B 5.W.M. CONTROL STRUCTURE FOR 5-1

shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. Channel

Areas covered by the pond or reservoir will be cleared of all trees, 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 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.

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 anticipatd 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.

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.

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 r compaction shall be achieved by a minimum of four complete passes of a sheensloot, 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 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 governed by the equipment used

for excavation, 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 consorming to that specified for the adjoining fill material. The fill shall be placed in borizontal 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 the contractor drive equipment 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. CORRUGATED METAL PIPE

Material: (Steel Pipe)-This pipe and its appurtenances shall be galvanized 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.

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 shall be used at all joints. Antisecp collars shall be connected to the pipe in such a manner as to be completely watertight.

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 carth compacted to provide adequate support.

Material

to ASTM Specification A-615.

- 1. Cement Normal Portland cement shall conform to the latest ASTM Specification C-150. 2. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable
- 3. Sand The sand used in concrete shall be clean, hard, strong a one-quarter inch sieve. Limestone sand shall not be used. 4. Course 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) inches. Renforcing Steel - The reinforcing steel shall be be deformed bars of intermediate grade billet steel or rail steel conforming

The concrete shall be mixed in the following proportions, measured by weight. The water-cement ration shall be 5-1 to 6 U.S. gallons f water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-4. 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.

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 material, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the additions of water to perserve 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

Finishing:

The forms shall have sufficient strength and rigidity to hold the concrete and to with stand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be more ar-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 Reinforcing Steel:

All reinforcing material shall be free of dirt, rust, scale, oil, paint or other contings. 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.

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

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.

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 compounds

Concrete may not be placed at temperatures below 37° F with the temperature falling or 34° with the temperature rising.

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 bgrms shall be stabilized by seeding, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying

> AS-BUILT SURVEY CERTIFIED BY ARTHUR E. MUEGGE III., MD P.E. No. 8707, ON 5-19-87

THE DEVELOPER:

'I 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 REDIMENT 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."

DEVELOPER RICHARD AZRAEL

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."

ARTHUR E. MUEGGE

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.

1-9-86

THESE PLANS FOR SMALL POND CONSTRUCTION. SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Wearing & Riday CHIEF, BUREAU OF ENGINEER REVISION

OWNER / DEVELOPER

AREA

CHATEAU BUILDERS, INC 8100 WOODED GLEH COURT ELLICOTT CITY, MARYLAND 21043

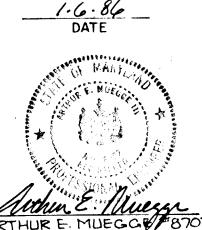
PROJECT THE WILLOWS SECTION I, AREA I, LOTS ITHRU 22

TAX MAP Nº.5 24 & 30 ZUP ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL DETAILS

THE RIEMER GROUP, INC

A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM 3105 HEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043 301 461-2590



DESIGNED BY: LJD DRAWN BY: JCJ PROJECT NO: 15803 DATE: JANUARY 2,1086 SCALE: AS SHOWN

DRAWING NO. G OF G

F-86-59 AS-BUILT 5-19-87