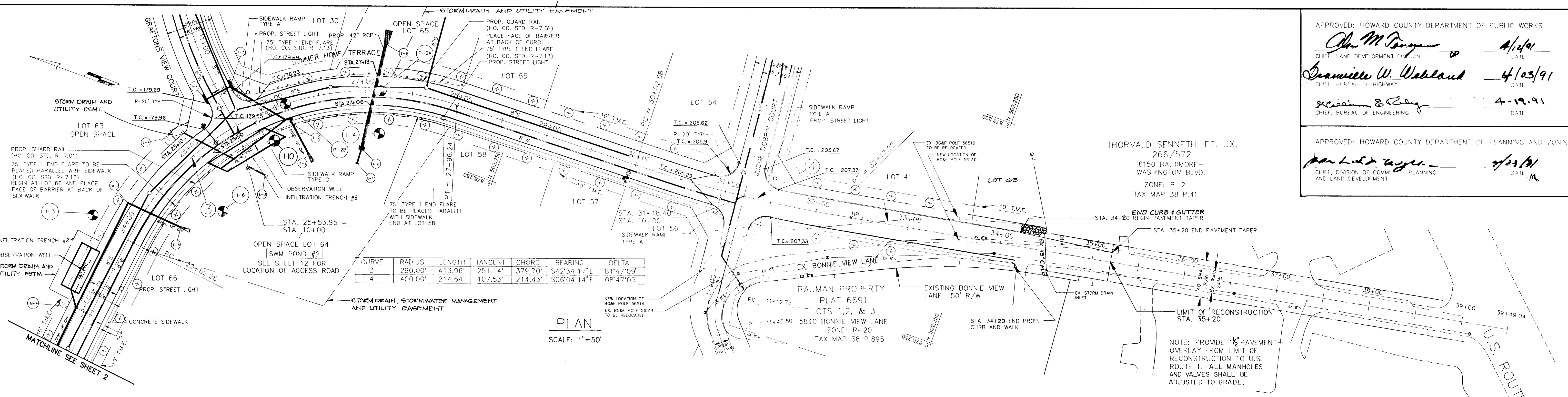


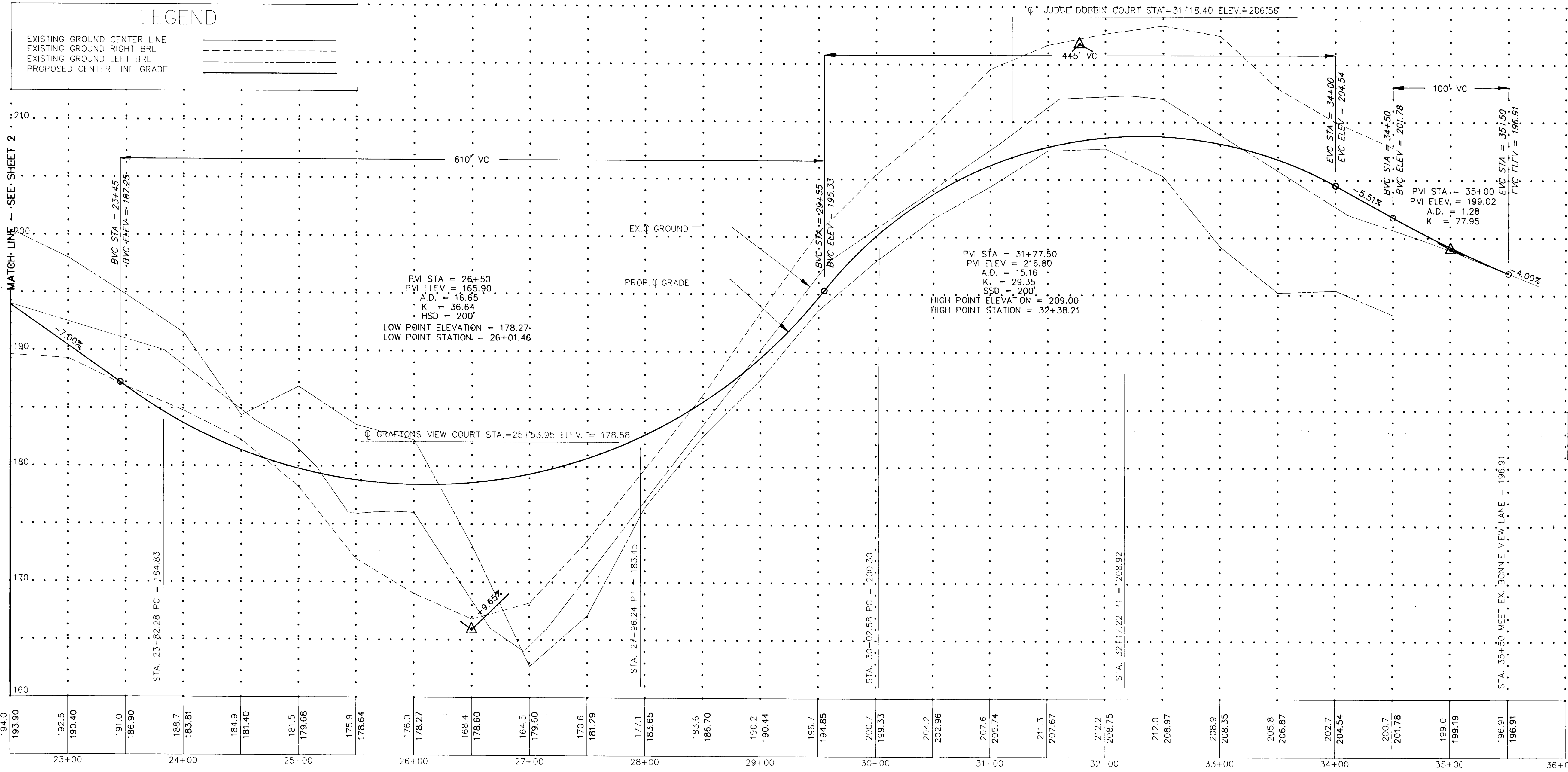
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Tamm 4/2/91
 CHIEF, LAND DEVELOPMENT DIVISION
James W. Weiland 4/03/91
 CHIEF, BUREAU OF HIGHWAY
William E. Eddy 4-19-91
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
John L. Taylor 4/23/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



LEGEND

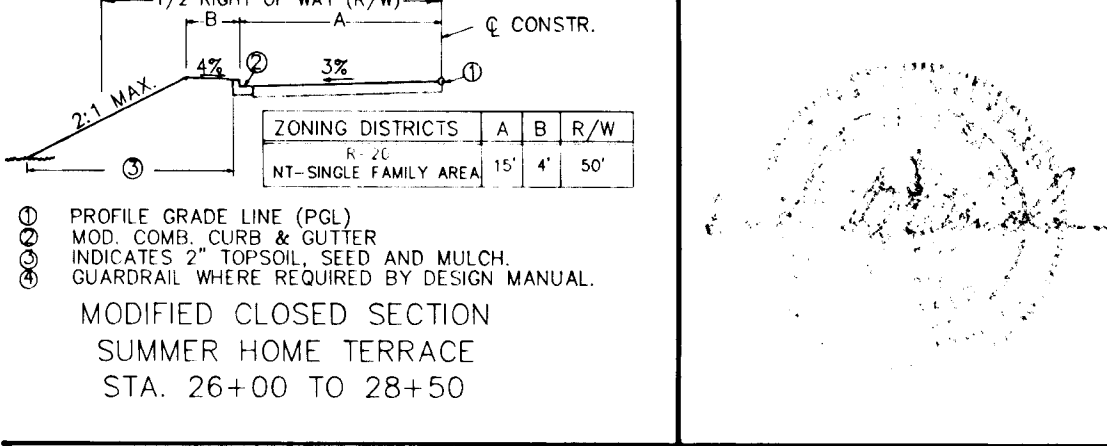
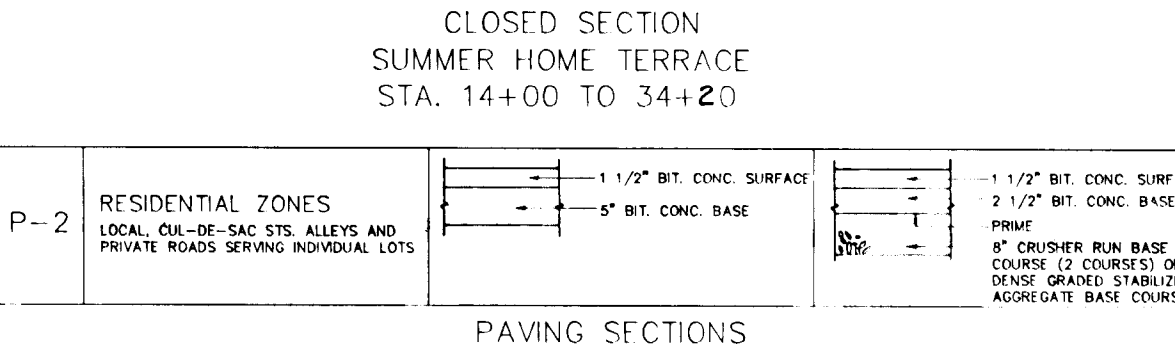
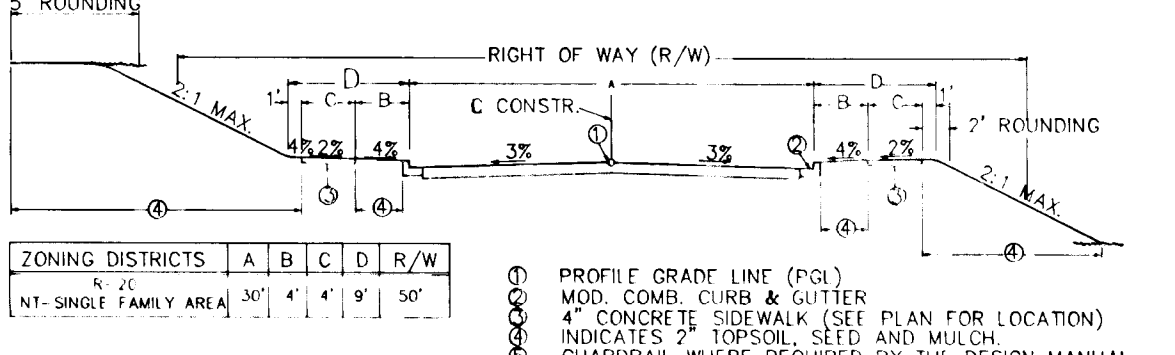
- EXISTING GROUND CENTER LINE
- EXISTING GROUND RIGHT BRL
- EXISTING GROUND LEFT BRL
- PROPOSED CENTER LINE GRADE



SUPERELEVATION TABLE
SUMMER HOME TERRACE - WESTBOUND

SECTION	STATION	PGL ELEVATION
BEGIN TANGENT RUNOUT	22+12.28	196.54
END TANGENT RUNOUT = BEGIN SUPERELEVATION RUNOFF	23+12.28	189.54
END SUPERELEVATION RUNOFF = BEGIN FULL SUPERELEVATION (+2% +)	24+12.28	183.16
END FULL SUPERELEVATION = BEGIN SUPERELEVATION RUNOFF	27+66.24	181.98
END SUPERELEVATION RUNOFF = BEGIN TANGENT RUNOUT	28+66.24	187.84
END TANGENT RUNOUT	29+66.24	196.40

NOTE: PGL = CENTERLINE ELEVATION
 * PLANE INCLINE NOT ACHIEVED
 NOTE: PROVIDE 2% SPILL CURB ON SUPERELEVATED SIDE OF ROAD FROM STA. 22+12.28 TO 29+66.24



"THE GABLES" AT LAWYERS HILL
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

PLAN AND PROFILE
SUMMER HOME TERRACE
STATION 22+50 TO 35+00

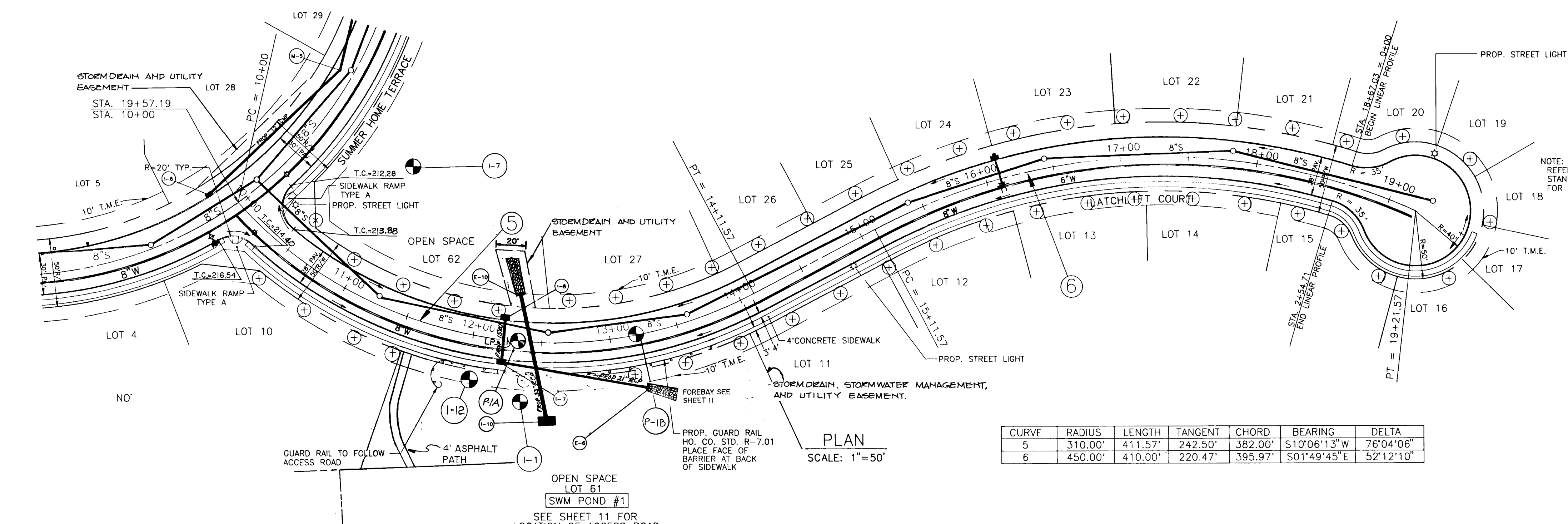
OWNER/DEVELOPER
 GLH LIMITED PARTNERSHIP
 7060 OAKLAND MILLS ROAD, SUITE 1
 COLUMBIA, MARYLAND 21046
 (301) 290-9494

SCALE: AS SHOWN DATE: 2/12/91 SHEET NO. 3 OF 16
 DESIGNED BY: D.J. DRAWN BY: D.J. CHECKED BY: P.A.H.
 GREENMAN-PEDERSEN, INC.
 ENGINEERS/ARCHITECTS/PLANNERS - LAUREL, MARYLAND
 14504 GREENVIEW DRIVE, SUITE 100, LAUREL, MD 20708
 (301) 470-2772, (301)880-3055, (301)269-6933

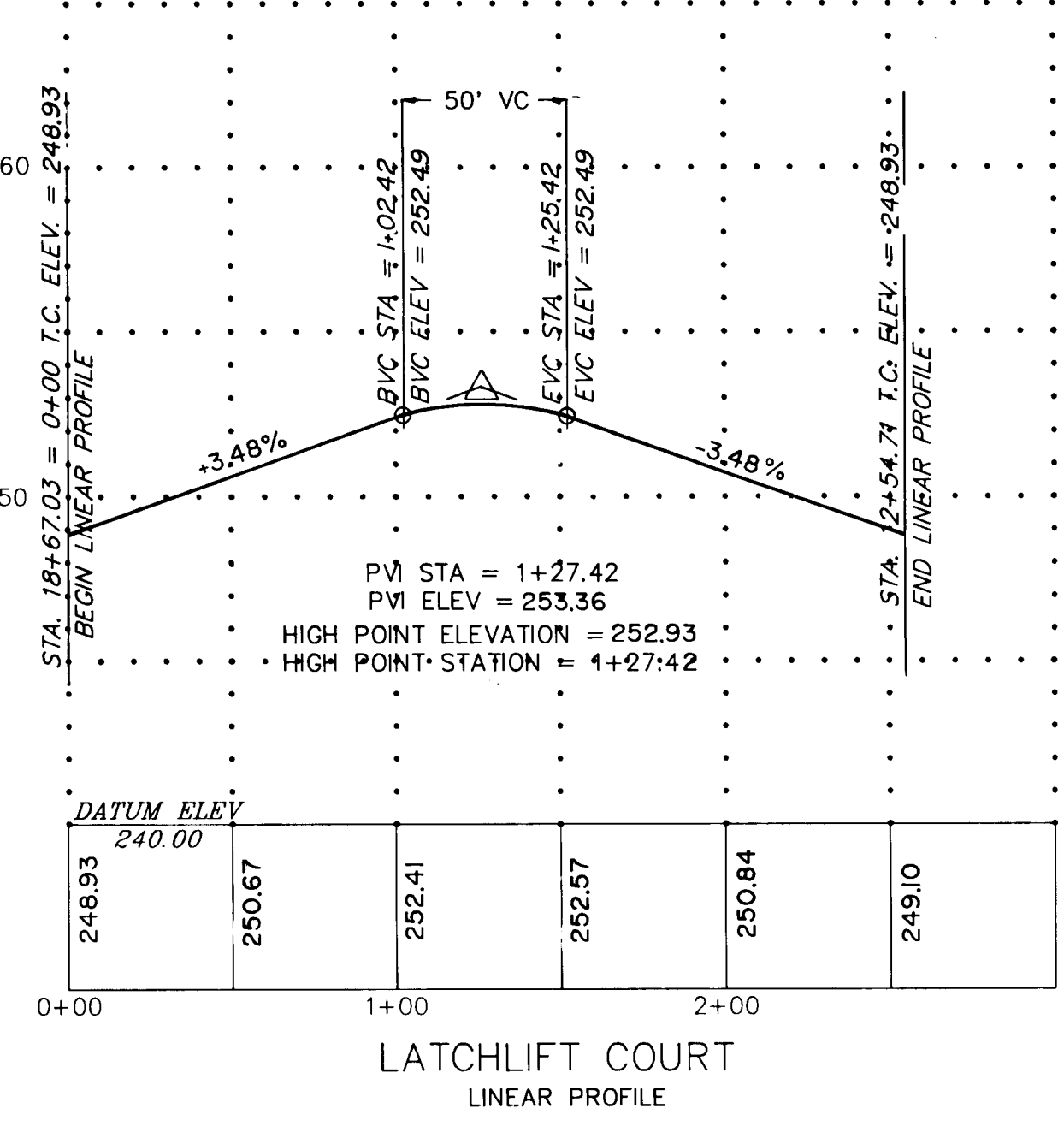
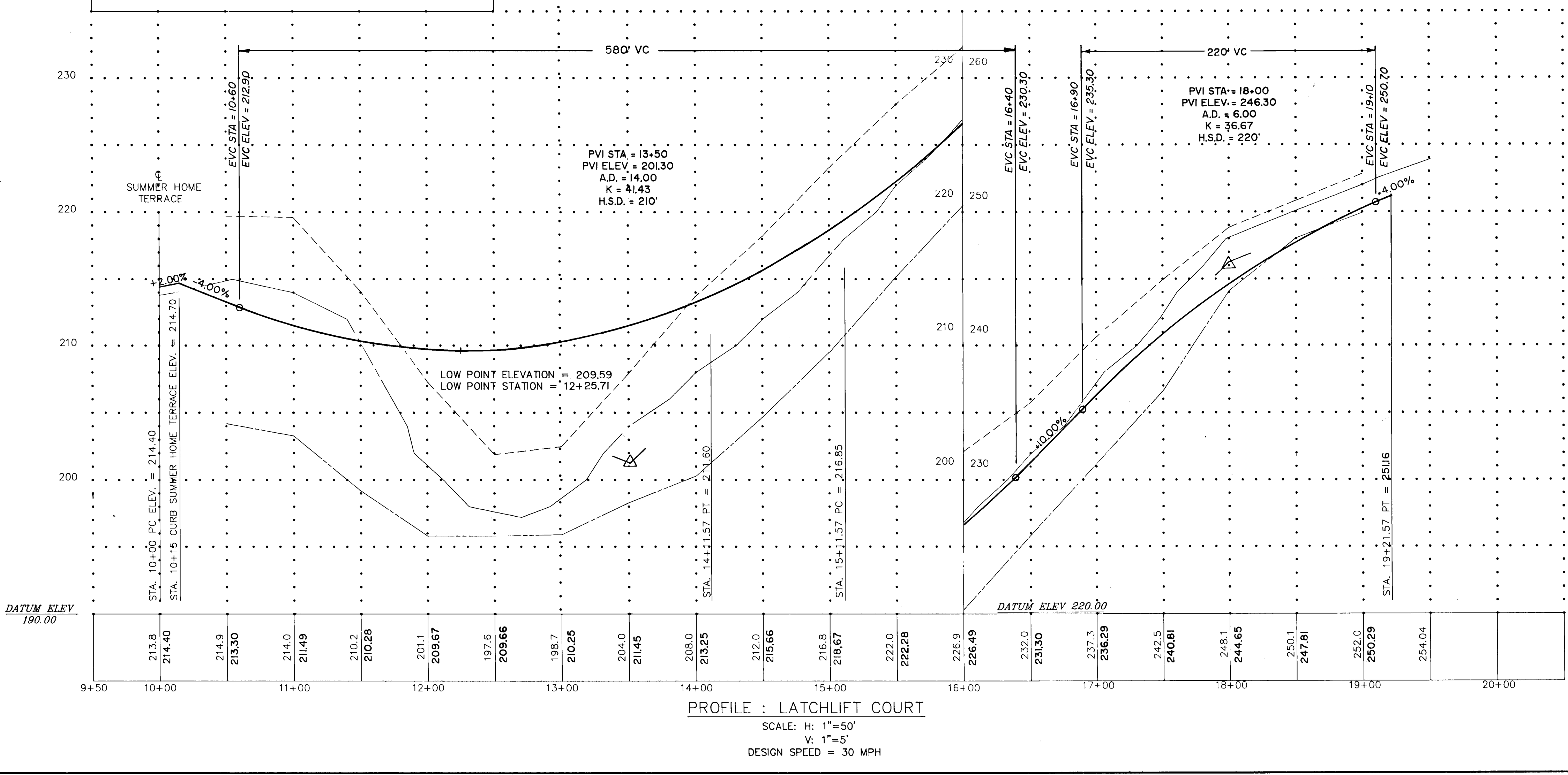
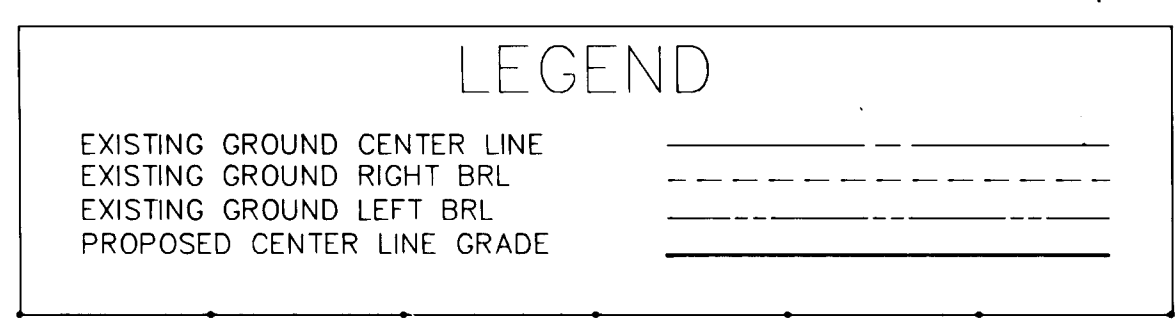
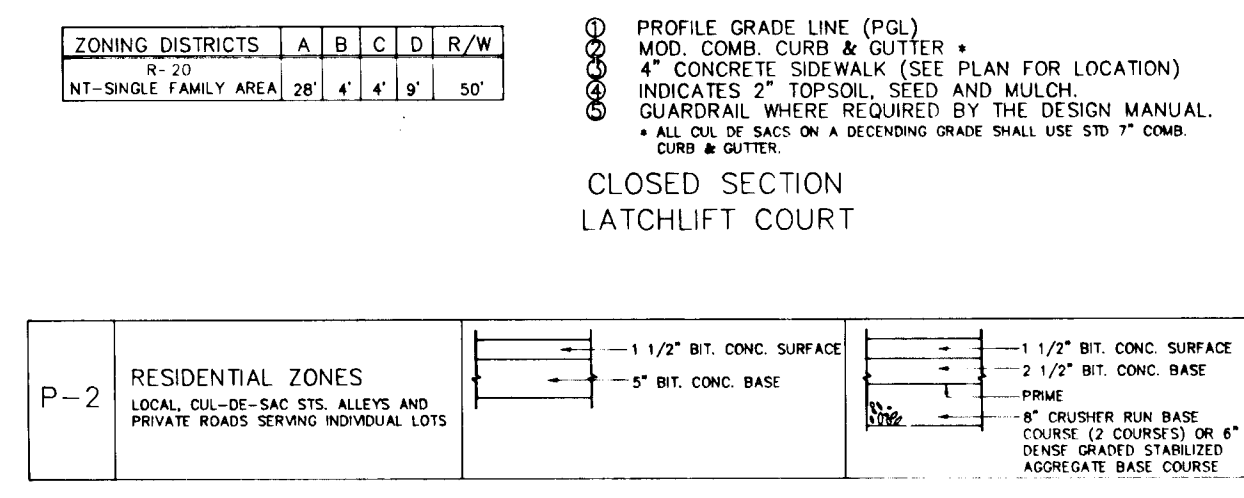
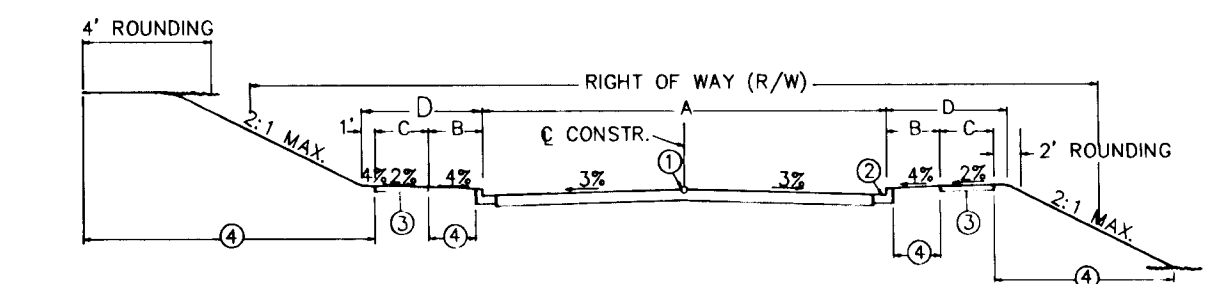
1623

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Alan M. Simpson 4/24/91
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Francis W. Deleard 4/03/91
 CHIEF, BUREAU OF HIGHWAY DATE
William B. Raley 4-12-91
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Paul V. Taylor 4/25/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
5	310.00'	411.57'	242.50'	382.00'	S10°06'13"W	76°04'06"
6	450.00'	410.00'	220.47'	395.97'	S01°49'45"E	52°12'10"



REVISIONS
 11/15/91 REVISED STREET GRADE,
 REALIGNED STORM DRAIN,
 CHANGED LOT LINES.

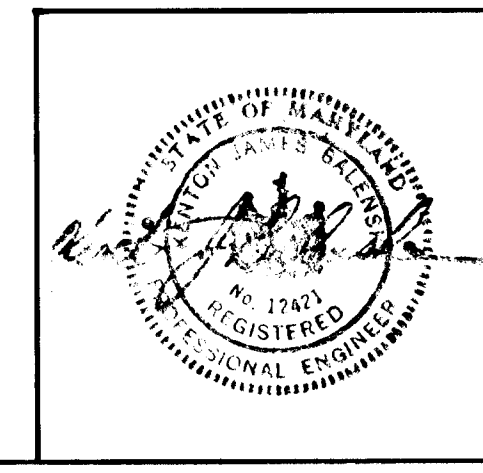
"THE GABLES" AT LAWYERS HILL
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

**PLAN AND PROFILE
 LATCHLIFT COURT**

OWNER/DEVELOPER
 GLH LIMITED PARTNERSHIP
 7060 OAKLAND MILLS ROAD, SUITE 1
 COLUMBIA, MARYLAND 21046
 (301) 290-9494

SCALE: AS SHOWN DATE: 2/12/91 SHEET NO. 4 OF 16
 DESIGNED BY: D.J. DRAWN BY: D.J. CHECKED BY: P.A.H.

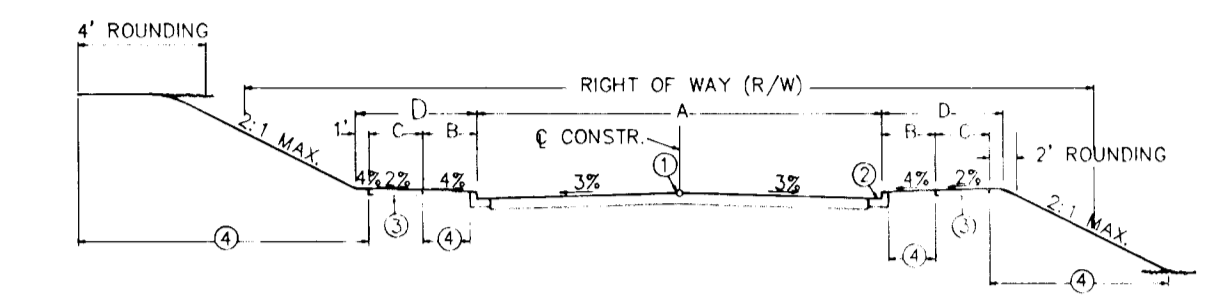
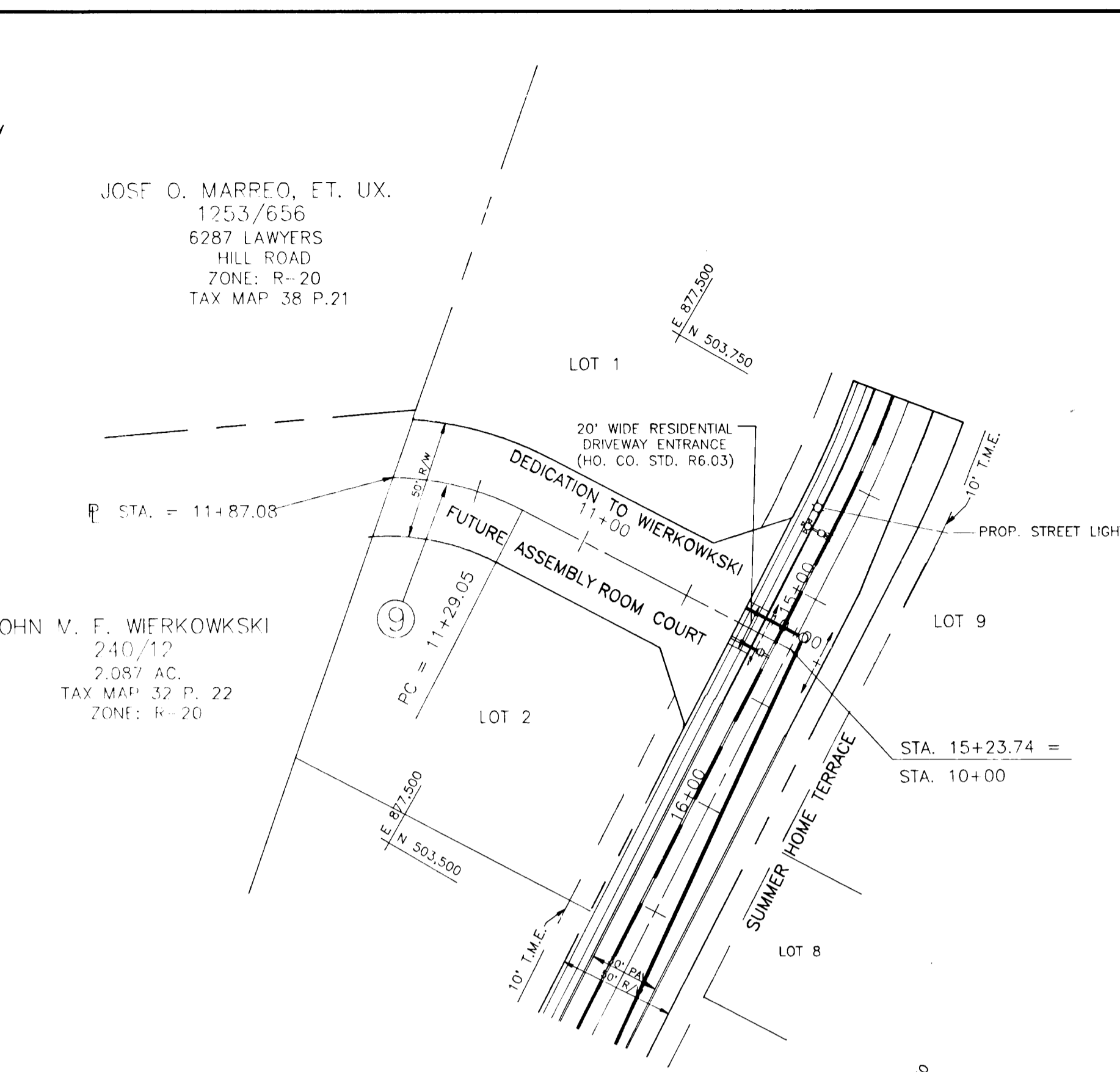
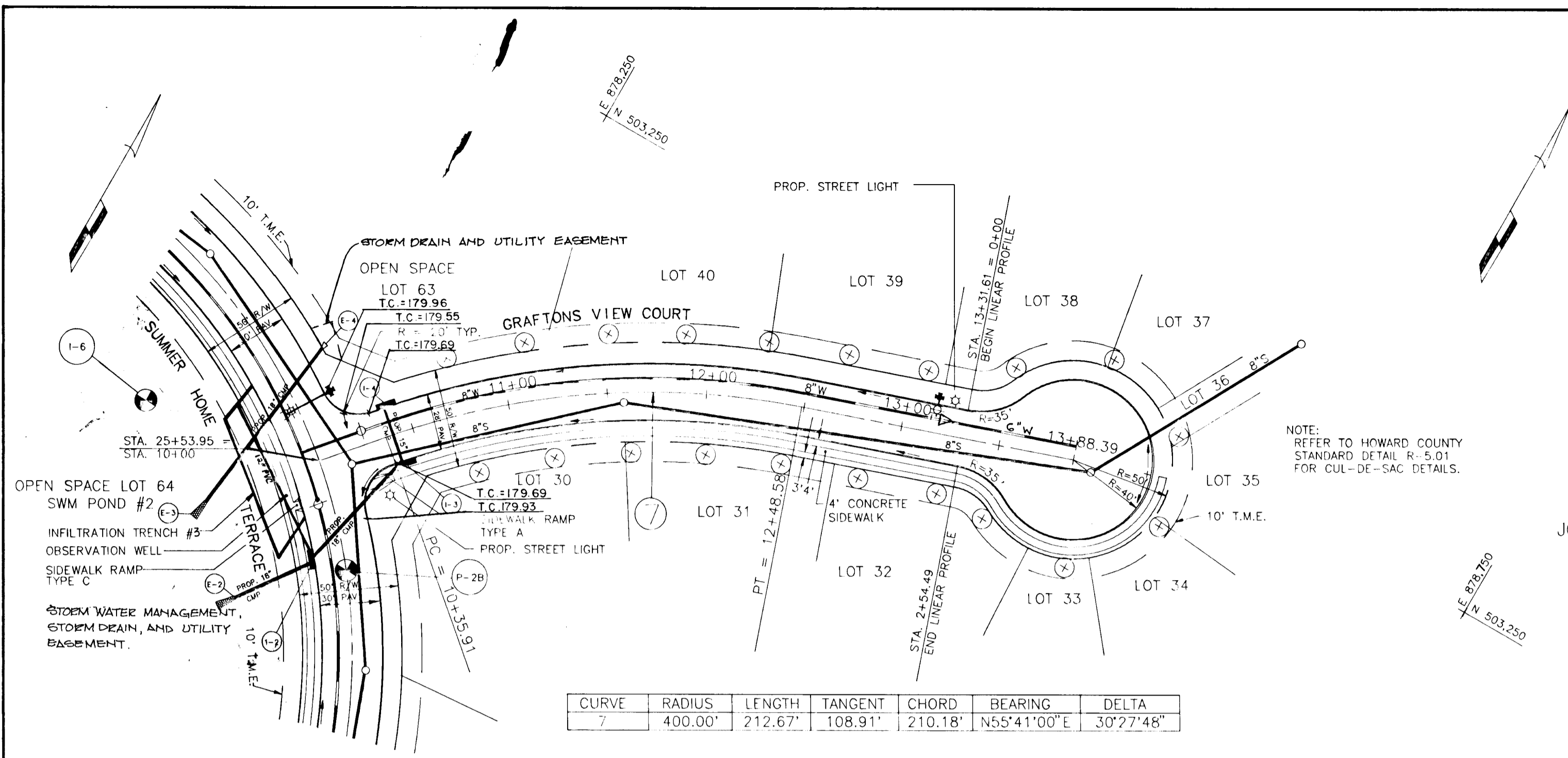
GREENMAN-PEDERSEN INC.
 ENGINEERS/ARCHITECTS/PLANNERS - LAUREL, MARYLAND
 14504 GREENVIEW DRIVE, SUITE 100, LAUREL, MD 20708
 (301) 470-2772, (301)880-3055, (301)269-6933



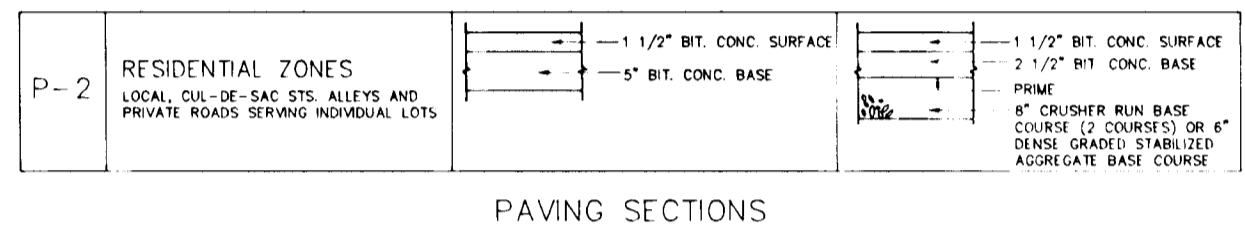
1623

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Pappas 4/10/91
 CHIEF, BUREAU OF HIGHWAY
Branville W. Welland 4/03/91
 CHIEF, BUREAU OF ENGINEERING
William E. Ray 4-19-91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Mark C. Taylor 4/23/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



ZONING DISTRICTS: A, B, C, D, R/W
 PROFILE GRADE LINE (PGL)
 MED. CONC. CURB & GUTTER
 CONCRETE SIDEWALK (SEE PLAN FOR LOCATION)
 INDICATES 2" TOPSIDE, SEED AND MULCH QUANTITIES WHERE REQUIRED BY THE DESIGN MANUAL.
 ALL CURBS ON A DRAINING GRADE SHALL USE STD 30" CONC. CURB & GUTTER.

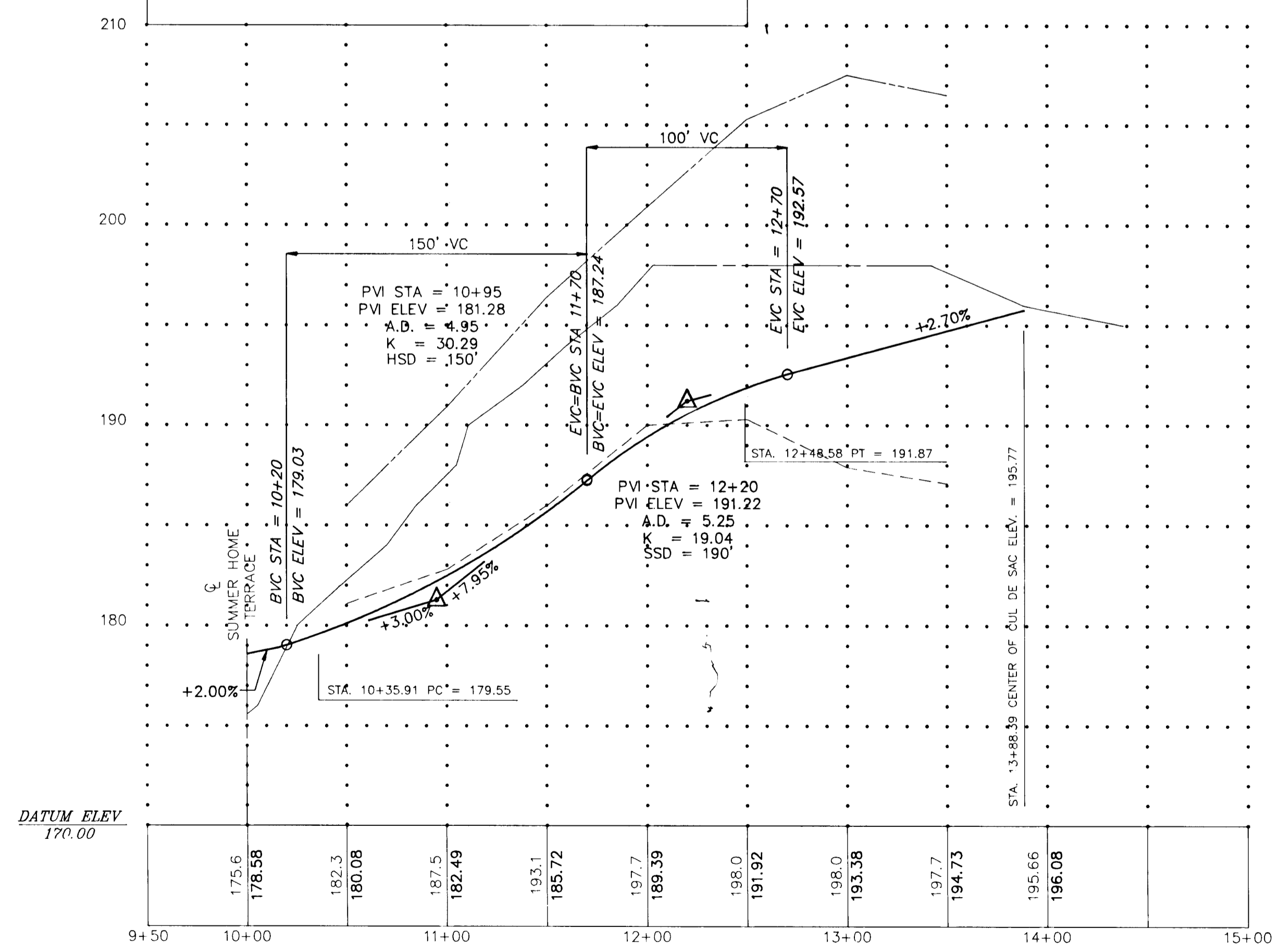


PLAN
 SCALE: 1"=50'

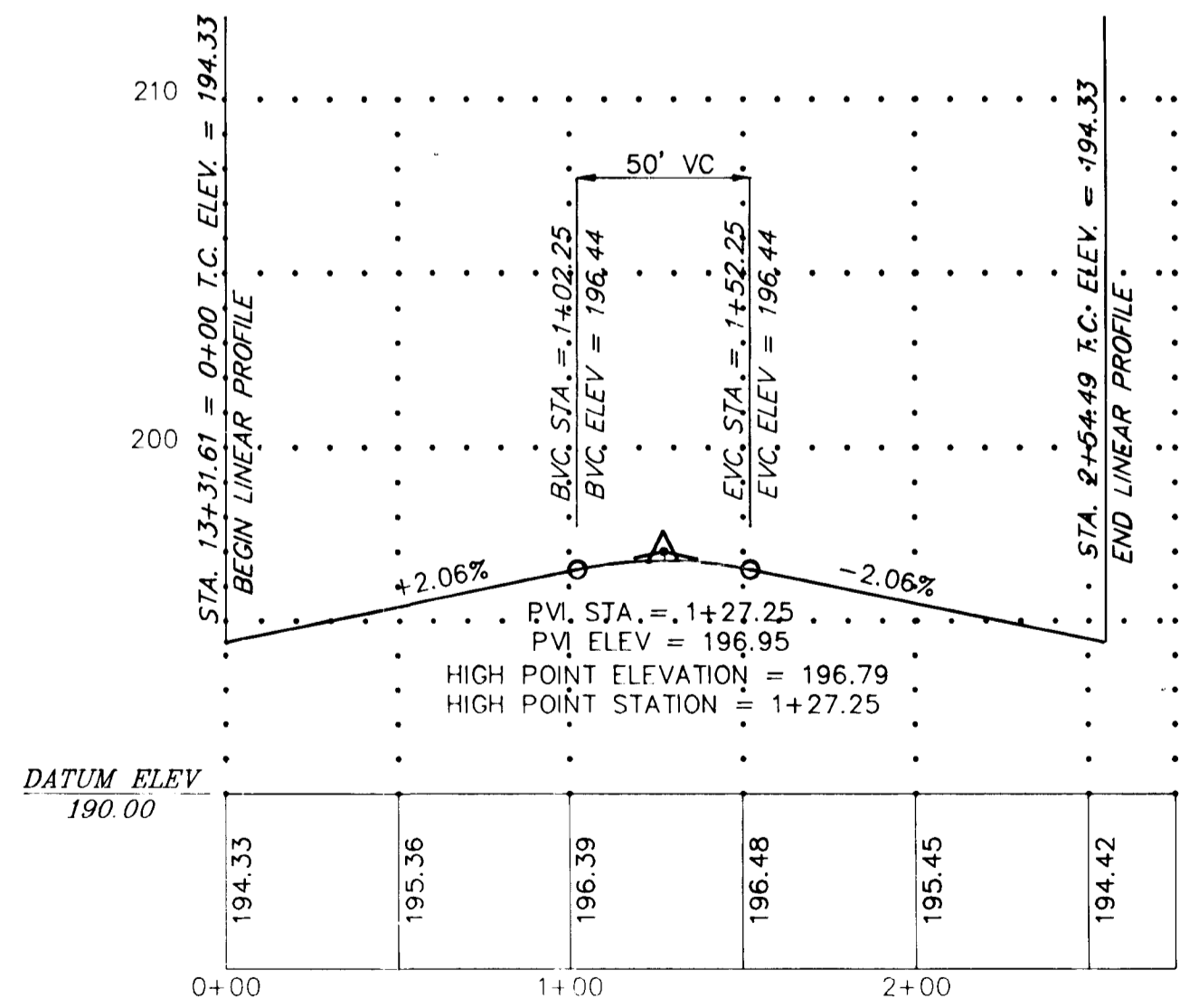
PLAN
 SCALE: 1"=50'

LEGEND

EXISTING GROUND CENTER LINE	---
EXISTING GROUND RIGHT BRL	---
EXISTING GROUND LEFT BRL	---
PROPOSED CENTER LINE GRADE	---

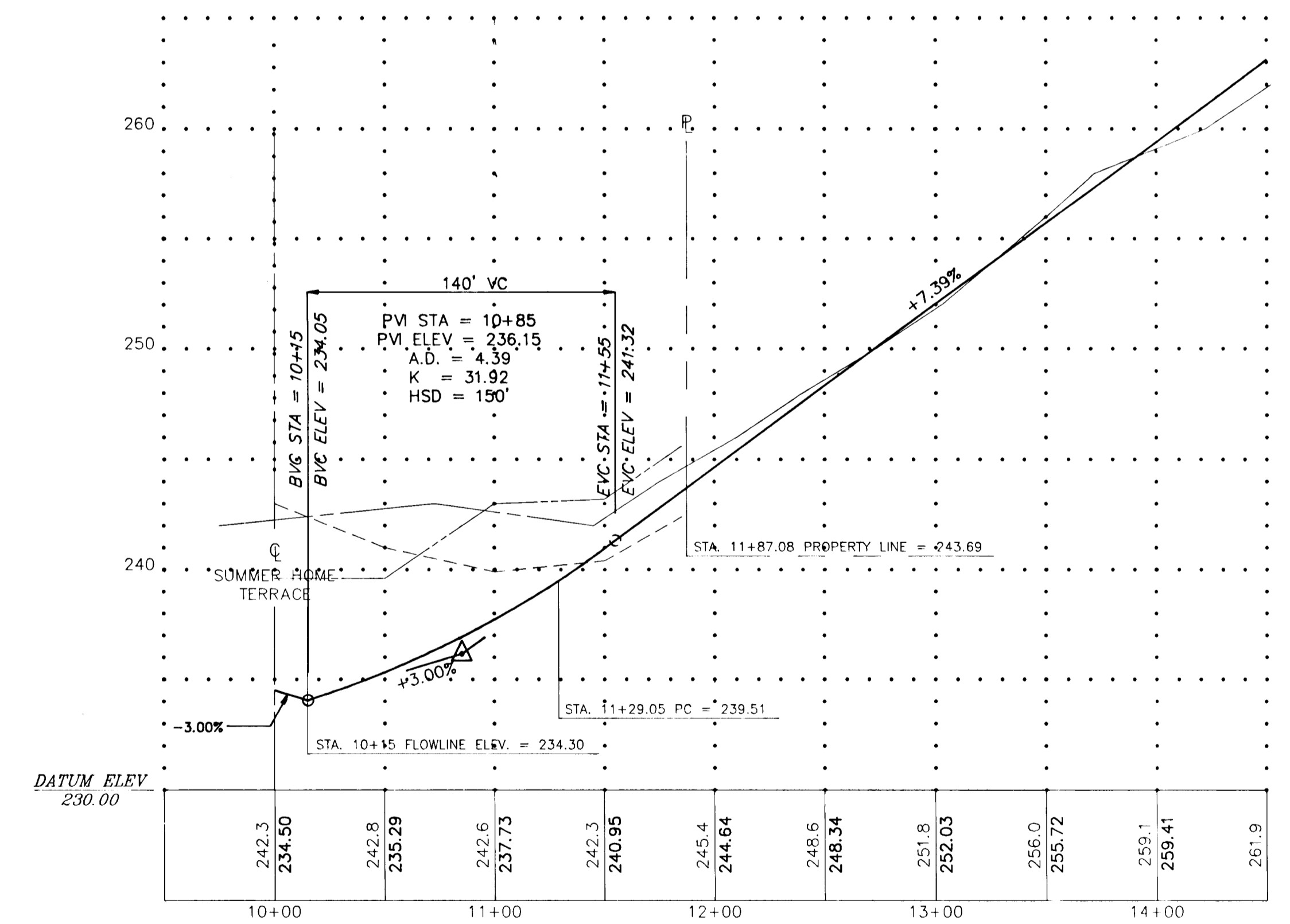


GRAFTONS VIEW COURT
 DESIGN SPEED = 25 MPH



GRAFTONS VIEW COURT
 LINEAR PROFILE

PROFILE
 SCALE: H: 1"=50'
 V: 1"=5'



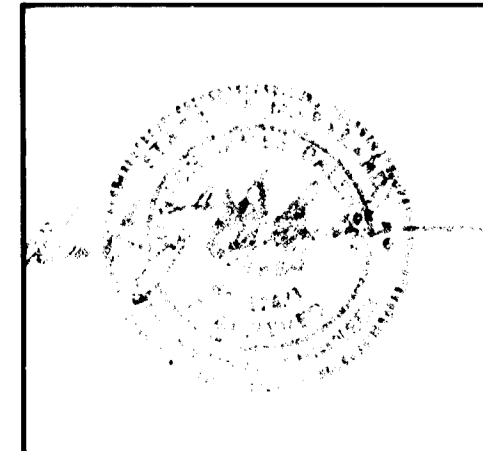
ASSEMBLY ROOM COURT
 DESIGN SPEED = 25 MPH

"THE GABLES" AT LAWYERS HILL
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
**PLAN AND PROFILE
 GRAFTONS VIEW COURT AND
 ASSEMBLY ROOM COURT**

OWNER/DEVELOPER
 GLH LIMITED PARTNERSHIP
 7060 OAKLAND MILLS ROAD, SUITE 1
 COLUMBIA, MARYLAND 21046
 (301) 290-9494

SCALE: AS SHOWN DATE: 2/12/91 SHEET NO. 5 OF 16
 DESIGNED BY: D.J. DRAWN BY: D.J. CHECKED BY: P.A.H.

GREENMAN-PEDERSEN INC.
 ENGINEERS/ARCHITECTS/PLANNERS - LAUREL, MARYLAND
 14504 GREENVIEW DRIVE, SUITE 100, LAUREL, MD 20708
 (301) 470-2772, (301)880-3055, (301)269-6933



INFILTRATION TRENCH NOTES :

3.3.6. Construction Specifications

3.3.6.1. Timing

An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

3.3.6.2. Trench Preparation

Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedure. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.

3.3.6.3. Fabric Laydown

The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.

3.3.6.4. Stone Aggregate Placement and Compaction

The stone aggregate should be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping, fabric clogging, and settlement problems.

3.3.6.5. Overlapping and Covering

Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum lap. The desired fill soils or stone aggregate shall be placed over the lap at sufficient intervals to maintain a top during subsequent backfilling.

3.3.6.6. Contamination

Care shall be exercised to prevent natural or fill soils from intermingling with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

3.3.6.7. Voids Behind Fabric

Voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

3.3.6.8. Unstable Excavation Sides

Vertically excavated walls may be difficult to maintain in areas where the soil moisture is high or where soft, cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoidal rather than rectangular cross sections may result.

3.3.6.9. Vegetative Buffer

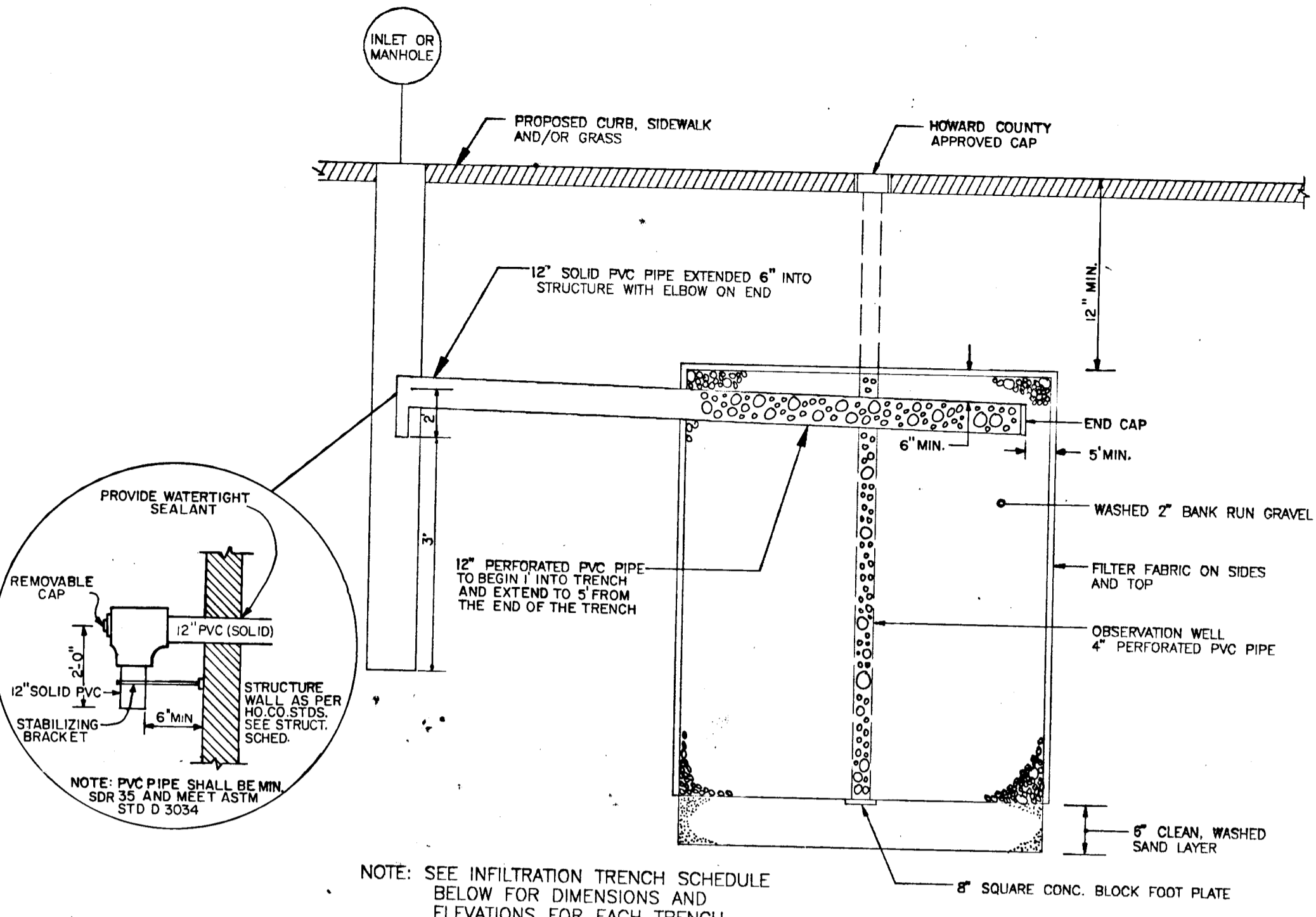
A vegetative buffer of a least 20 feet (wider, if possible) shall be used to intercept surface runoff from all impervious areas.

3.3.6.10. Traffic Control

Heavy equipment and traffic shall be restricted from travelling over the infiltration areas to minimize compaction of the soil.

3.3.6.11. Observation Well

An observation well, as described in subsection 3.3.4.8. and Figure 3-5 shall be provided. The depth of the well at the time of installation will be clearly marked on the well cap.



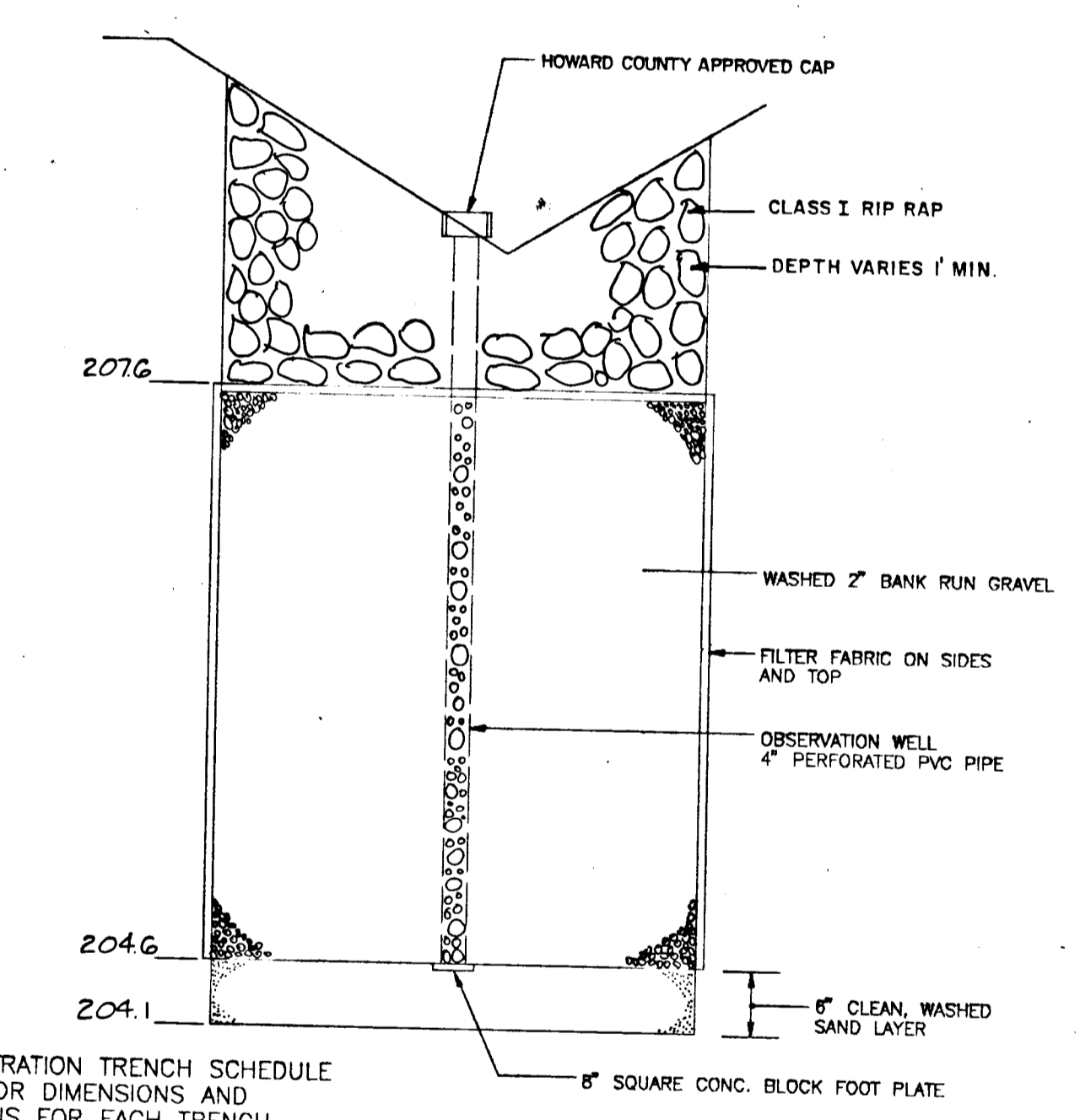
INFILTRATION TRENCH MAINTENANCE NOTES

THE OBSERVATION WELL SHALL BE MONITORED PERIODICALLY FOR THE FIRST YEAR AFTER COMPLETION OF CONSTRUCTION. THE WELL SHOULD BE MONITORED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM. IT IS RECOMMENDED THAT A LOG BOOK BE MAINTAINED INDICATING THE DATE AT WHICH THE FACILITY DEWATERS AFTER LARGE STORMS AND THE DEPTH OF THE WELL. FOR EACH STRUCTURE HAVE BEEN VERIFIED. THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS, UNLESS THE PERFORMANCE DATA INDICATE THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

SEDIMENT BUILD-UP IN THE TOP FOOT OF STONE AGGREGATES OR THE SURFACE INLET SHOULD BE MONITORED ON THE SAME SCHEDULE AS THE OBSERVATION WELL. A MONITORING WELL IN THE TOP FOOT OF STONE AGGREGATE WILL BE REQUIRED WHEN THE TRENCH HAS A STONE SURFACE. SEDIMENT DEPOSITED SHALL NOT BE ALLOWED TO BUILD UP TO THE POINT WHERE IT WILL REDUCE THE RATE OF INFILTRATION INTO THE TRENCH.

INFILTRATION TRENCH DETAIL

TRENCH 2 & 3 N.T.S.



INFILTRATION TRENCH DETAIL

TRENCH 1 N.T.S. * ALSO SEE PROFILE SHEET 7

TRENCH #	LENGTH	WIDTH	DEPTH	TRENCH BOTTOM	SAND LAYER INVERT	TRENCH TOP	12" PVC INVERT	SLOPE OF 12" PVC	STRUCTURE INVERT	STRUCTURE NUMBER
1	30'	18'	3.0	204.6	204.1	207.6	SEE PROFILE	1.0%	179.76	I-11
2	50'	22'	4.0'	181.0	180.5	185.0	1.0%	179.76	M-4	
3A	50'	25'	4.0'	169.4	168.9	173.4	1.0%	167.55	I-2	
3B	20'	25'	3.0'	169.4	168.9	172.4	1.0%			

CONSTRUCTION SPECIFICATIONS FOR PONDS

These specifications are appropriate for ponds within the scope of the Standard for practice and are acceptable to the Prince George's Soil Conservation District, the Washington Suburban Sanitary Commission, and the Prince George's County Department of Environmental Resources.

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 breakers 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

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 previous 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 tract of the equipment or compaction shall be achieved by 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 of 95% is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Geotechnical Engineer at the time of construction. All compaction is to be determined by ASTM Method T-99. The dam embankment should be formed of material conforming to the Unified Soil Classification, SM, SC, MI, MH, CH, CL and CL. The Unified Soil Classification System is based on the identification of soils according to their particle size, gradation, plasticity index and liquid limit (ASTM D-2487, D-2488). Gradation and particle size are determined by sieve analyses. Plastic and liquid limits are determined by standard methods of laboratory testing (ASTM D-423 and D-424).

All material shall contain no stone larger than 3" in the greatest dimension. Such stones shall not be more than 25% by volume of the fill material. For dam cores, cut off trenches and pond linings, the material used can include clean and organic free CH and MH material. When specified, the pond lining material shall not exceed 6" thickness and shall be placed unbroken in the pond bottom.

Core Trench/Cut Off Trench/Key Trench

The core 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 five feet. The depth shall be at least five 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 core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability (see Compaction).

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. GREATER CONDUITS

All pipes shall be circular in cross section.

Reinforced Concrete Pipe

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

2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3", or as shown on the drawings. WSSC low cradle bedding is an approved equivalent.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be 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.

V. CONCRETE

Concrete shall meet requirement A or B below:

A.

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 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 (1.5) inches.
- e. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade mild steel or roll steel conforming to ASTM Specifications A-615.

2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5.5 to 6 U.S. gallons of water per 84 pound bag of cement. The proportion of materials for the trial mix shall be 1:2.3:5. 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 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 on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be named 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 compounds may also be used.

9. Placing Temperature - Concrete may not be placed at temperatures below 37°F with the temperature falling, or 34°F with the temperature rising.

B. Concrete shall meet WSSC General Conditions and Standard Specifications Section 03300 for Cast-in-Place Concrete.

VI. CARE OF WATER DURING CONSTRUCTION

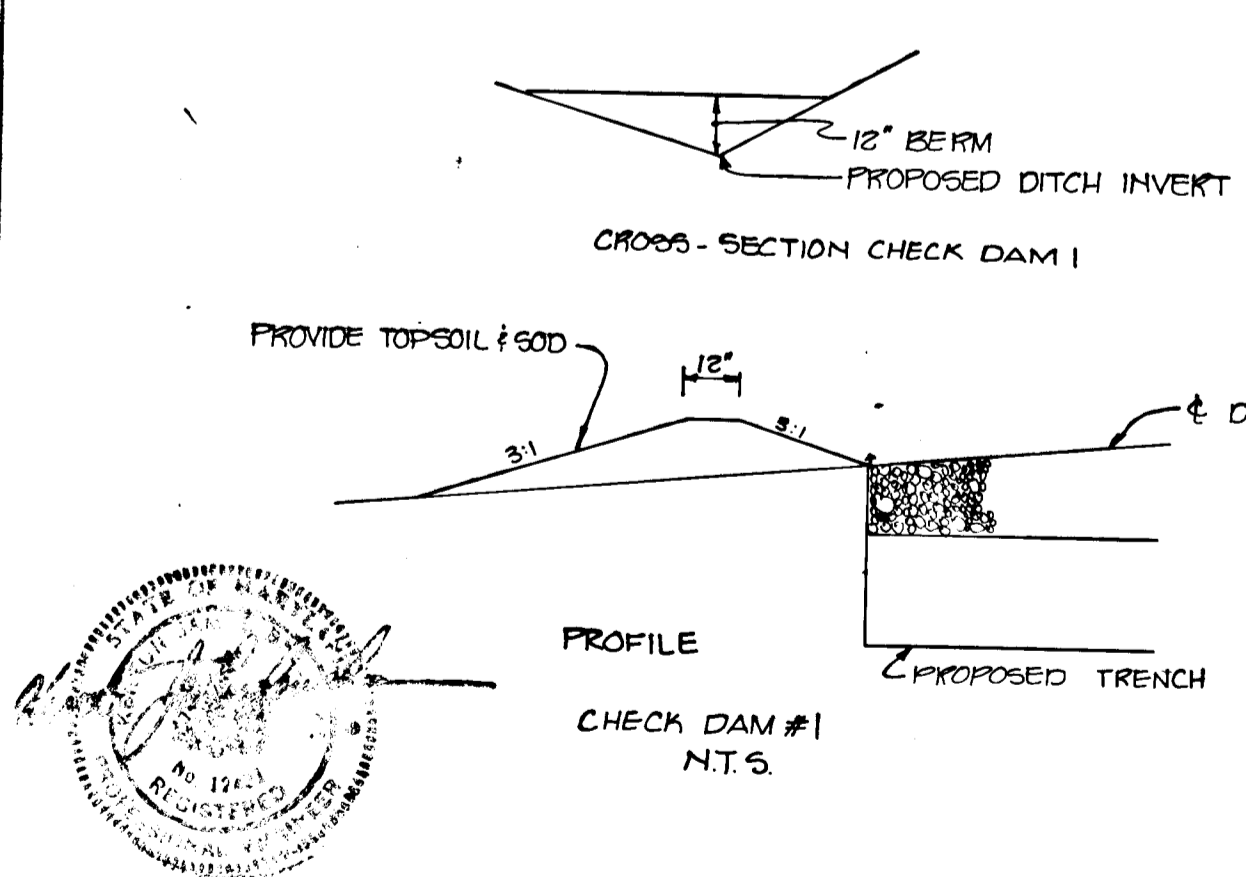
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works, and to furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. The diversion and care of the stream will be diverted through the site until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of the required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations, which may require draining the water to pumps from which the water shall be pumped.

VII. 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.

VIII. 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.



gpi
Greenberg-Pedersen, Inc.
ENGINEERS-ARCHITECTS-PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL MD. 20708
(301) 470-2772 WASHINGTON
(301) 880-3055 BALTIMORE

ENGINEER'S CERTIFICATE
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 NOTICED THE DEVELOPER THAT HE MUST 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.
[Signature]
8/6/90 DATE

DEVELOPER'S CERTIFICATE
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 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.
[Signature] 3-21-91 DATE

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.
[Signature] 3/26/91 DATE

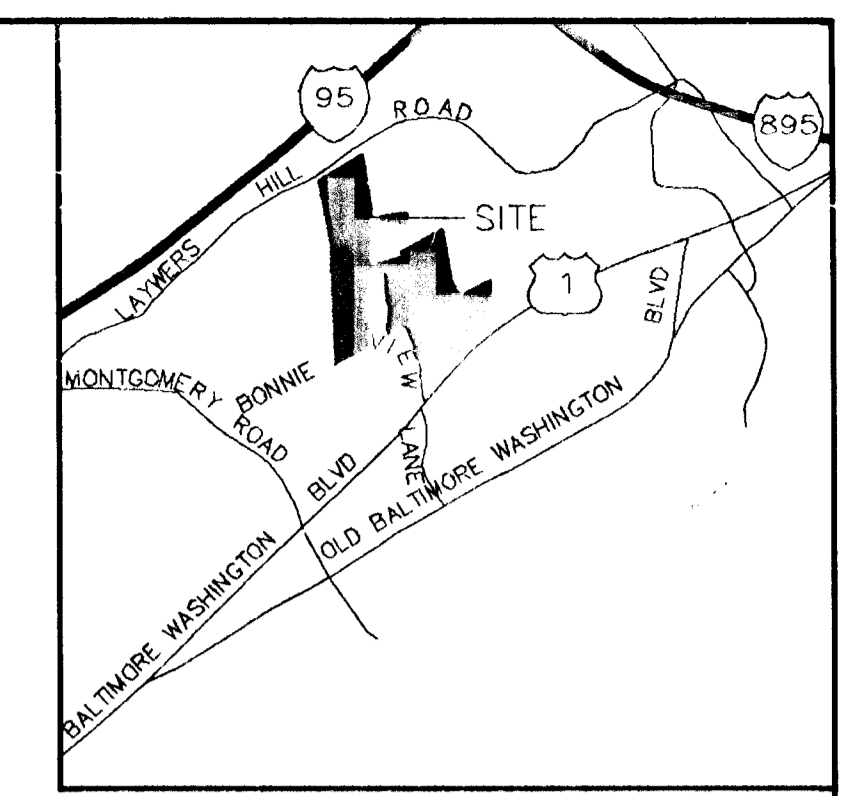
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 4/23/91 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 4/13/91 DATE
CHIEF, BUREAU OF ENGINEERING

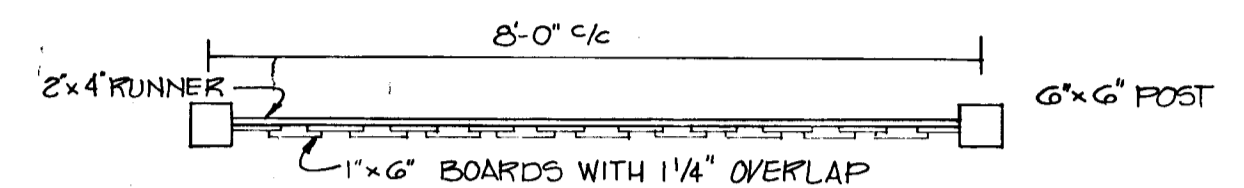
REVISIONS	
DATE	DESCRIPTION

SUBDIVISION NAME: _____ SECTION/AREA: _____ LOT/PARCEL NO.: _____
PLAY # OR L/F: _____ BLOCK NO: _____ ZONE/TAX/ZONE: _____ ELEC. DIST: _____ CENSUS TR: _____
WATER CODE: _____ SEWER CODE: _____

"THE GABLES" AT LAWYERS HILL
STORMWATER MANAGEMENT DETAILS
SOILS MAP NO. 26
FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TAX MAP 32 PARCELS 23, 230, 341 & 529
DRAWING NO. 88145.FP SCALE 1"=50' DATE 2/12/91 SHEET NO. 9 OF 16

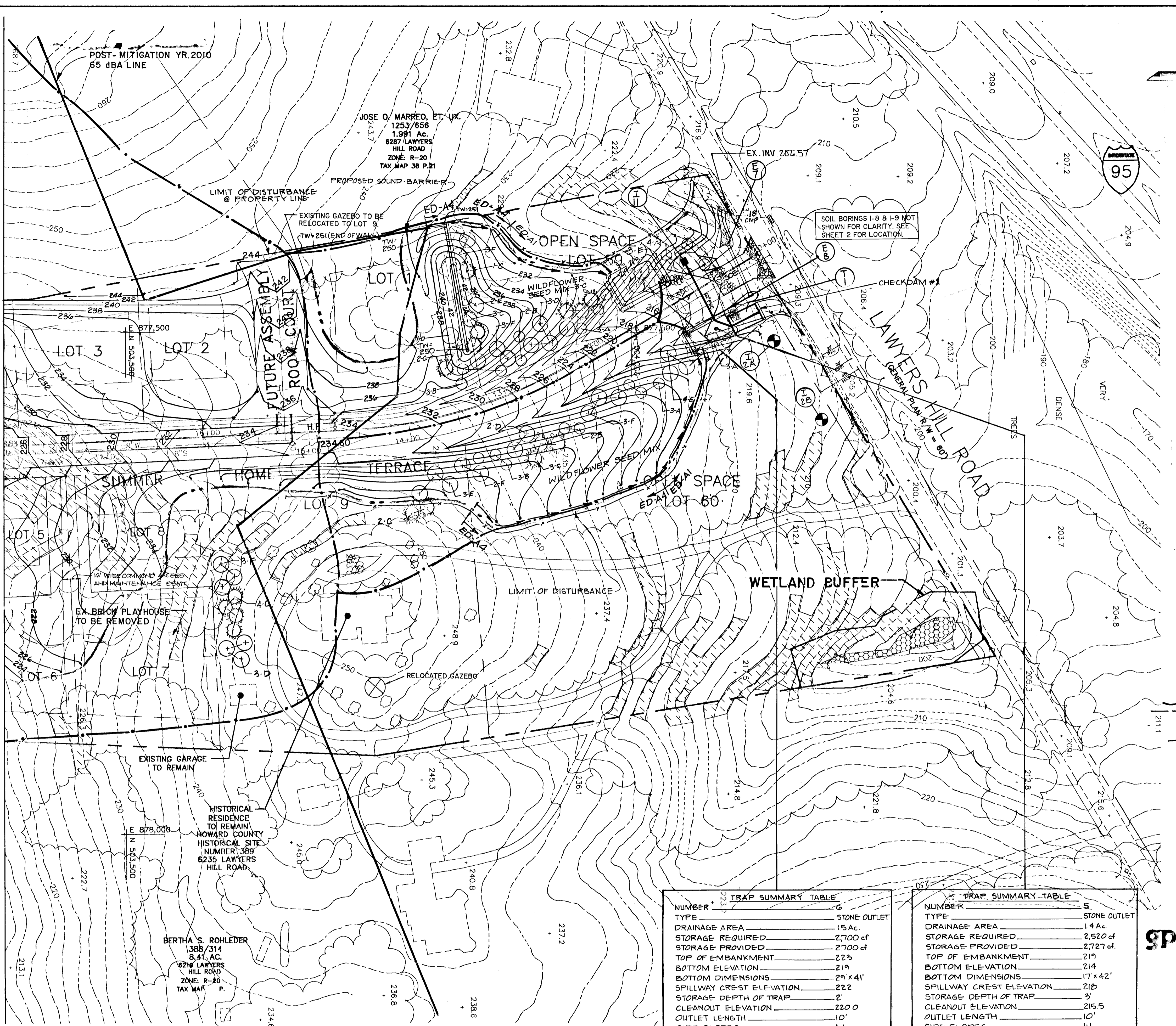


VICINITY MAP
SCALE: 1" = 2000'



NOTE: ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE .4 RETENTION MAX. HEIGHT = 11 FEET
NOISE BARRIER - TOP VIEW
N.T.S.

MATCH LINE A SEE SHEET 11



SEE SHEET 13 FOR PLANTING DETAILS AND PLANT LIST

LEGEND

- STREAM BANK/ WETLAND BUFFER*
 - LIMIT OF SUBDIVISION
 - WETLAND LOCATION (FIELD LOCATED)
 - BUILDING RESTRICTION LINE
 - STREAM BANK
 - DRAINAGE DIVIDE TO SEC DIVIDE
 - LIMIT OF DISTURBANCE
 - 15% TO 25% SLOPES - EXISTING
 - 25% AND STEEPER SLOPES - EXISTING
 - X- CONSTRUCTION FENCE OR SIMILAR BARRIER TO BE PLACED AT LIMIT OF DISTURBANCE.
- * GREATER OF 75' FROM STREAMBANK OR 25' FROM WETLANDS

FEE SIMPLE OWNERS

WILLIAM W. MYERS
5815 BONNIE VIEW LANE
ELK RIDGE, MD 21227

ROBERT W. STEAD
6235 LAWYERS HILL ROAD
ELK RIDGE, MD 21227

RICHARD C. BAUMAN
5840 BONNIE VIEW LANE
ELK RIDGE, MD 21227

DEVELOPER

ORCHARD DEVELOPMENT CORPORATION
7050 OAKLAND MILLS ROAD, SUITE 100
COLUMBIA, MD 21046

gpi GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL, MD 20708
(301) 470-2772

TAX MAP	PARCEL	ACREAGE	LIBER	F.O.I.O.	OWNER
32	341	2.8	123B	40R	WILLIAM W. MYERS
32	23	20.8	103A	51Z	ROBERT W. STEAD
32	320	11.2	71B	684	RICHARD C. BAUMAN
32	529	10.0	1251	325	RICHARD C. BAUMAN

* MYERS WILL NOT BE SUBDIVIDED BY DEVELOPMENT

TRAP SUMMARY TABLE	
NUMBER	6
TYPE	STONE OUTLET
DRAINAGE AREA	15 Ac.
STORAGE REQUIRED	2,700 cf
STORAGE PROVIDED	2,700 cf
TOP OF EMBANKMENT	223
BOTTOM ELEVATION	219
BOTTOM DIMENSIONS	29' x 41'
SPILLWAY CREST ELEVATION	222
STORAGE DEPTH OF TRAP	2'
CLEANOUT ELEVATION	220
OUTLET LENGTH	10'
SIDE SLOPES	1:1

TRAP SUMMARY TABLE	
NUMBER	5
TYPE	STONE OUTLET
DRAINAGE AREA	14 Ac.
STORAGE REQUIRED	2,520 cf
STORAGE PROVIDED	2,727 cf
TOP OF EMBANKMENT	219
BOTTOM ELEVATION	214
BOTTOM DIMENSIONS	17' x 42'
SPILLWAY CREST ELEVATION	218
STORAGE DEPTH OF TRAP	3'
CLEANOUT ELEVATION	215.5
OUTLET LENGTH	10'
SIDE SLOPES	1:1

ENGINEER'S CERTIFICATE

"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]
8/6/90
DATE

DEVELOPER'S CERTIFICATE

"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 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."

[Signature] 8-8-90
DATE

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.

[Signature] 3/26/91
DATE

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

[Signature] 3/26/91
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/23/91
DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 4/19/91
DATE

CHIEF, BUREAU OF HIGHWAYS

[Signature] 4/19/91
DATE

CHIEF, BUREAU OF ENGINEERING

REVISIONS

DATE	BY	DESCRIPTION
11/15/90		REVISED GRADING @ LAWYERS HILL RD. ENTRANCE ADD LOT GRADING, REVISED NOISE WALL/BERM

"THE GABLES" AT LAWYERS HILL

GRADING AND SEDIMENT CONTROL PLAN AND LANDSCAPE PLAN

SOILS MAP No. 76

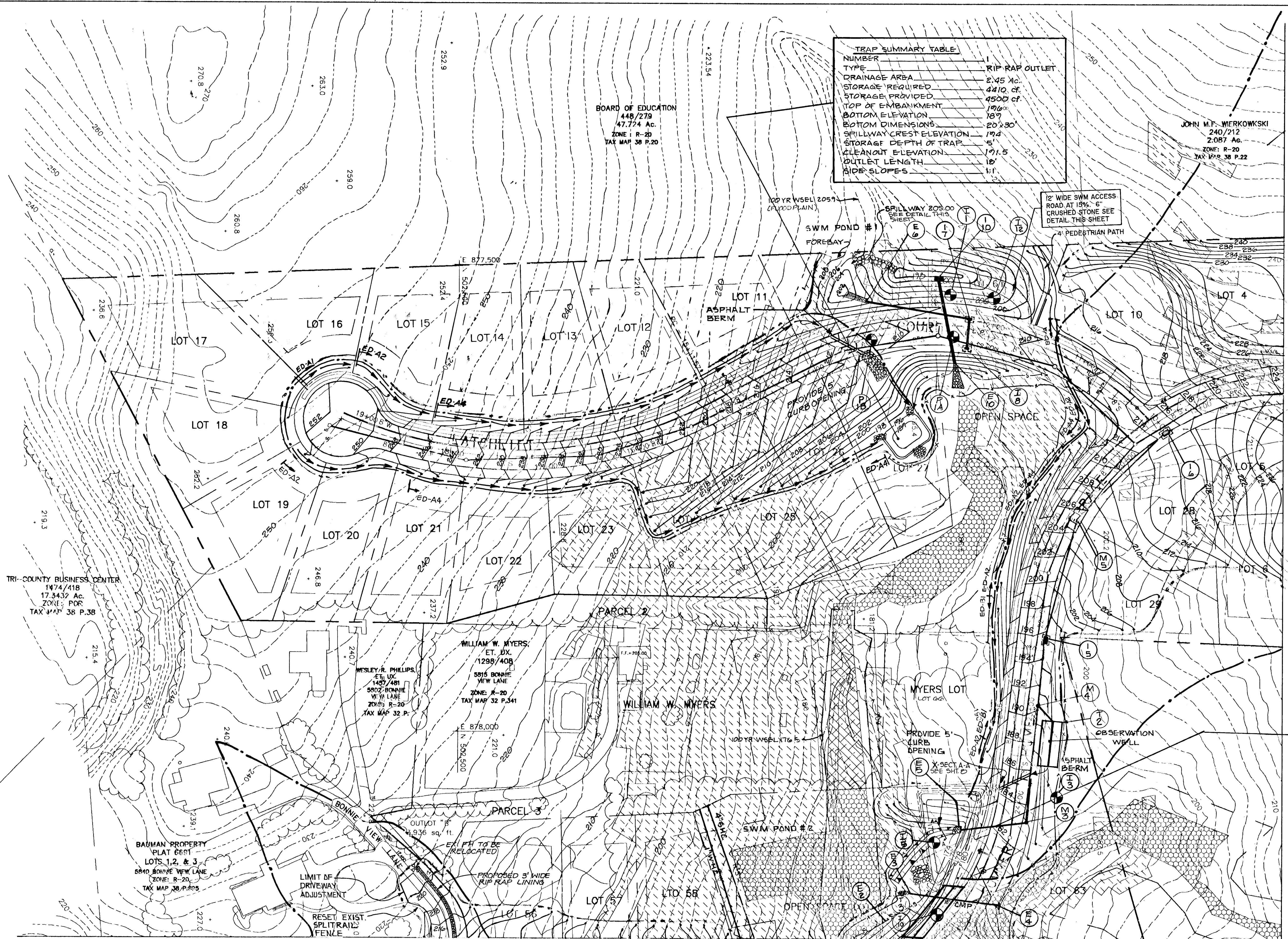
FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TAX MAP 32 PARCELS 23, 230, 341 & 529

DRAWING NO. 88145,PP SCALE 1"=50' DATE 2/12/91 SHEET NO. 10 OF 16

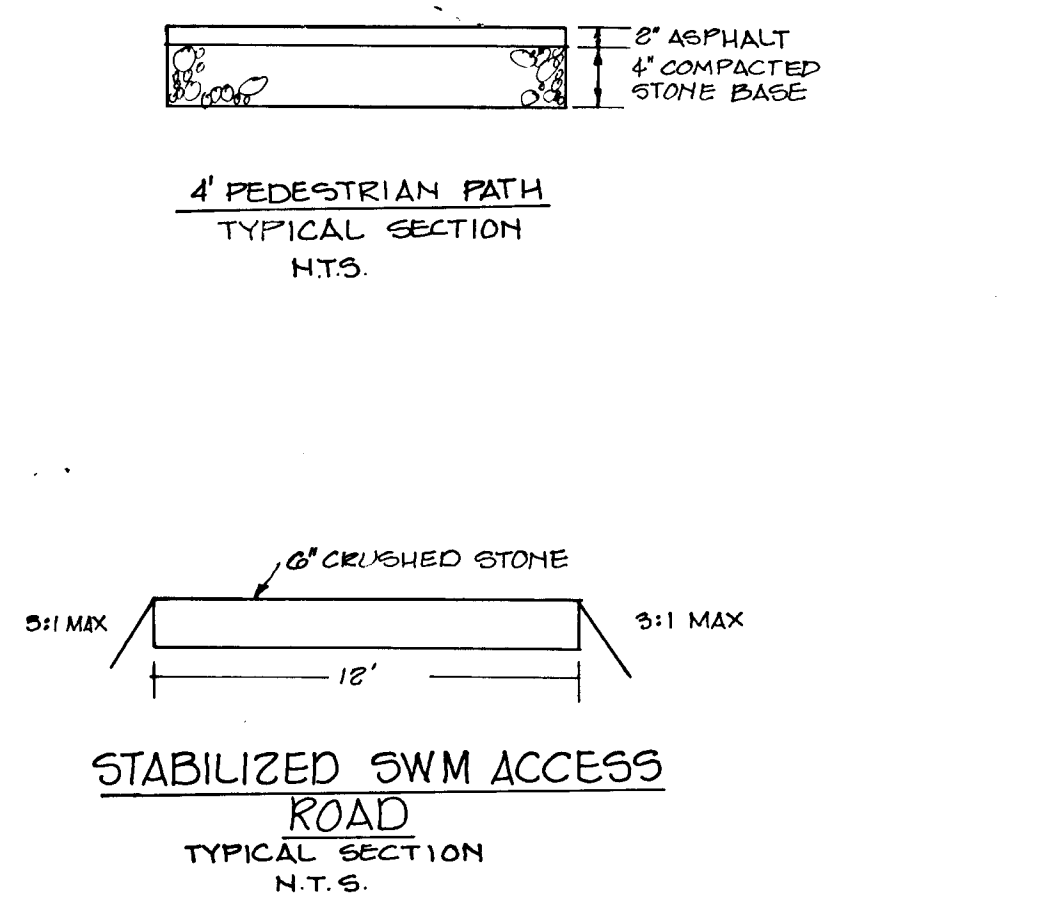
gpi
Greenman-Pedersen, Inc.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL MD, 20708
(301) 470-2772 WASHINGTON
(301) 880-3055 BALTIMORE

1/6/23



TRAP SUMMARY TABLE

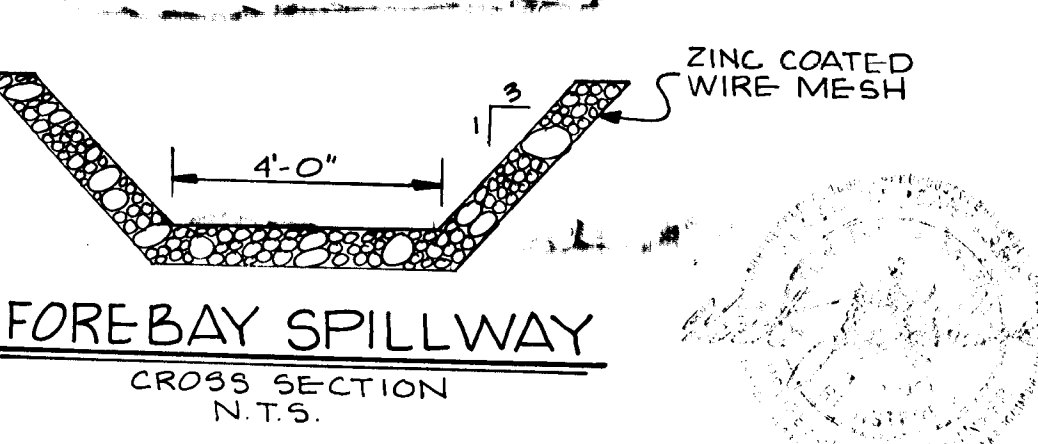
NUMBER	1
TYPE	RIP RAP OUTLET
DRAINAGE AREA	2.45 AC.
STORAGE REQUIRED	4110 CF.
STORAGE PROVIDED	4500 CF.
TOP OF EMBANKMENT	176'
BOTTOM ELEVATION	187'
BOTTOM DIMENSIONS	20' x 30'
SPILLWAY CREST ELEVATION	174'
STORAGE DEPTH OF TRAP	5'
CLEANOUT ELEVATION	171.5'
OUTLET LENGTH	10'
SIDE SLOPES	1:1



- LEGEND**
- 100 YR. FLOODPLAIN
 - STREAM BANK/WETLAND BUFFER*
 - LIMIT OF SUBDIVISION
 - WETLAND LOCATION (FIELD LOCATED)
 - WETLAND LOCATION (APPROXIMATE)
 - 15% TO 25% SLOPE
 - 25% AND STEEPER SLOPES
 - UNUSEABLE OPEN SPACE
- * GREATER OF 75' FROM STREAMBANK OR 25' FROM WETLANDS

TRAP SUMMARY TABLE

NUMBER	2
TYPE	RIP RAP OUTLET
DRAINAGE AREA	7.7 AC.
STORAGE REQUIRED	13,860 CF.
STORAGE PROVIDED	14,000 CF.
TOP OF EMBANKMENT	181'
BOTTOM ELEVATION	170'
BOTTOM DIMENSIONS	VARIES
SPILLWAY CREST ELEVATION	177'
STORAGE DEPTH OF TRAP	6'
CLEANOUT ELEVATION	173'
OUTLET LENGTH	10.0'
SIDE SLOPES	1:1



MATCH LINE SEE SHEET 12

GPI
Greenman-Pedersen, Inc.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL MD. 20708
(301) 470-2772 WASHINGTON
(301) 880-3055 BALTIMORE

ENGINEER'S CERTIFICATE
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8/6/90
DATE

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8-8-90
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DATE: 4/29/91
DATE: 3/26/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 4/15/91
DATE: 4-19-91

REVISIONS

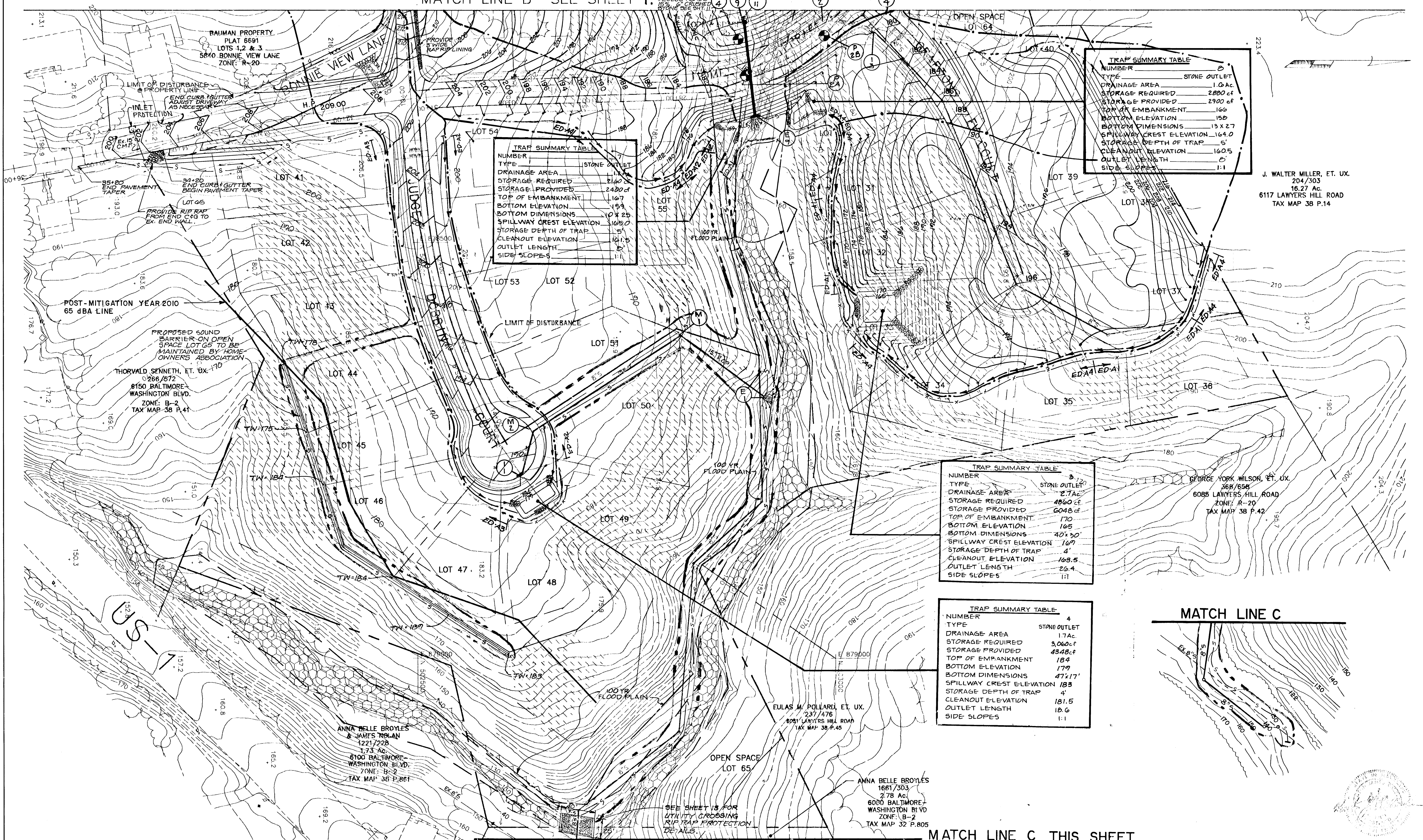
DATE	BY	DESCRIPTION
11/15/90		REVISED GRADING ALONG LATCHLIFT CT., ADDED LOT GRADING, REVISED TRAP #1 AND REALIGNED STORM DRAIN.
7/20/91		ADDED RIP RAP LINING IN BONNIE VIEW LANE DITCH & REVISED GRADING.

"THE GABLES" AT LAWYERS HILL
GRADING AND SEDIMENT CONTROL PLAN
SOILS MAP No. 26
FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TAX MAP 32 PARCELS 23, 230, 341 & 529
DRAWING NO. 88145.PP
SCALE 1"=50'
DATE 2/12/91
SHEET NO. 11 OF 16

1623

MATCH LINE B SEE SHEET I!

1" WIDE SHIM ACCESS ROAD 15% GRADE

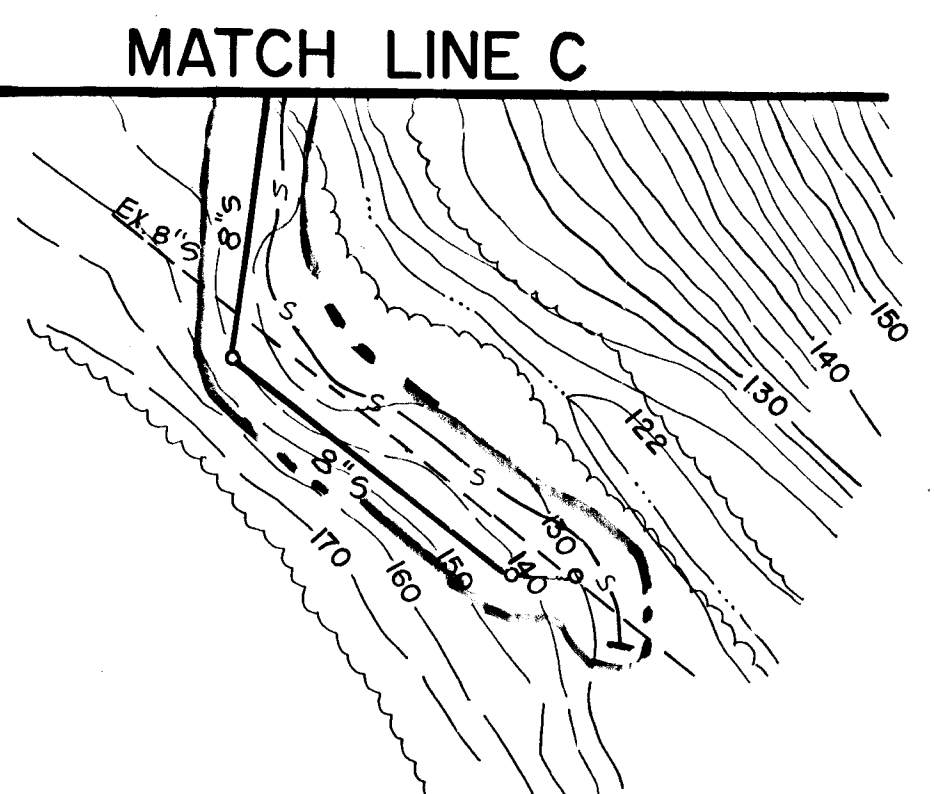


TRAP SUMMARY TABLE	
NUMBER	STONE OUTLET
1	1
TYPE	STONE OUTLET
DRAINAGE AREA	1.0 Ac.
STORAGE REQUIRED	2800 cf
STORAGE PROVIDED	2900 cf
TOP OF EMBANKMENT	160
BOTTOM ELEVATION	150
BOTTOM DIMENSIONS	13 X 27
SPILLWAY CREST ELEVATION	164.0
STORAGE DEPTH OF TRAP	5'
CLEANOUT ELEVATION	160.5
OUTLET LENGTH	5'
SIDE SLOPES	1:1

TRAP SUMMARY TABLE	
NUMBER	STONE OUTLET
2	1
TYPE	STONE OUTLET
DRAINAGE AREA	1.1 Ac.
STORAGE REQUIRED	2160 cf
STORAGE PROVIDED	2400 cf
TOP OF EMBANKMENT	167
BOTTOM ELEVATION	159
BOTTOM DIMENSIONS	10 X 25
SPILLWAY CREST ELEVATION	165.0
STORAGE DEPTH OF TRAP	5'
CLEANOUT ELEVATION	161.5
OUTLET LENGTH	5'
SIDE SLOPES	1:1

TRAP SUMMARY TABLE	
NUMBER	STONE OUTLET
3	1/20
TYPE	STONE OUTLET
DRAINAGE AREA	2.7 Ac.
STORAGE REQUIRED	4860 cf
STORAGE PROVIDED	6048 cf
TOP OF EMBANKMENT	170
BOTTOM ELEVATION	165
BOTTOM DIMENSIONS	40 X 30'
SPILLWAY CREST ELEVATION	167
STORAGE DEPTH OF TRAP	4'
CLEANOUT ELEVATION	163.5
OUTLET LENGTH	26.4
SIDE SLOPES	1:1

TRAP SUMMARY TABLE	
NUMBER	STONE OUTLET
4	
TYPE	STONE OUTLET
DRAINAGE AREA	1.7 Ac.
STORAGE REQUIRED	3,060 cf
STORAGE PROVIDED	4348 cf
TOP OF EMBANKMENT	184
BOTTOM ELEVATION	179
BOTTOM DIMENSIONS	47 X 17'
SPILLWAY CREST ELEVATION	183
STORAGE DEPTH OF TRAP	4'
CLEANOUT ELEVATION	181.5
OUTLET LENGTH	18.6
SIDE SLOPES	1:1



J. WALTER MILLER, ET. UX.
204/303
16.27 Ac.
6117 LAWYERS HILL ROAD
TAX MAP 38 P.14

GEORGE YORK WILSON, ET. UX.
368/656
6085 LAWYERS HILL ROAD
ZONE: R-20
TAX MAP 38 P.42

EULAS M. POLLARD, ET. UX.
237/476
8281 LAWYERS HILL ROAD
TAX MAP 38 P.45

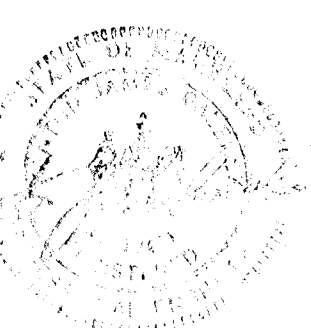
ANNA BELLE BROYLES
1681/303
2.78 Ac.
6080 BALTIMORE WASHINGTON BLVD
ZONE: B-2
TAX MAP 32 P.805

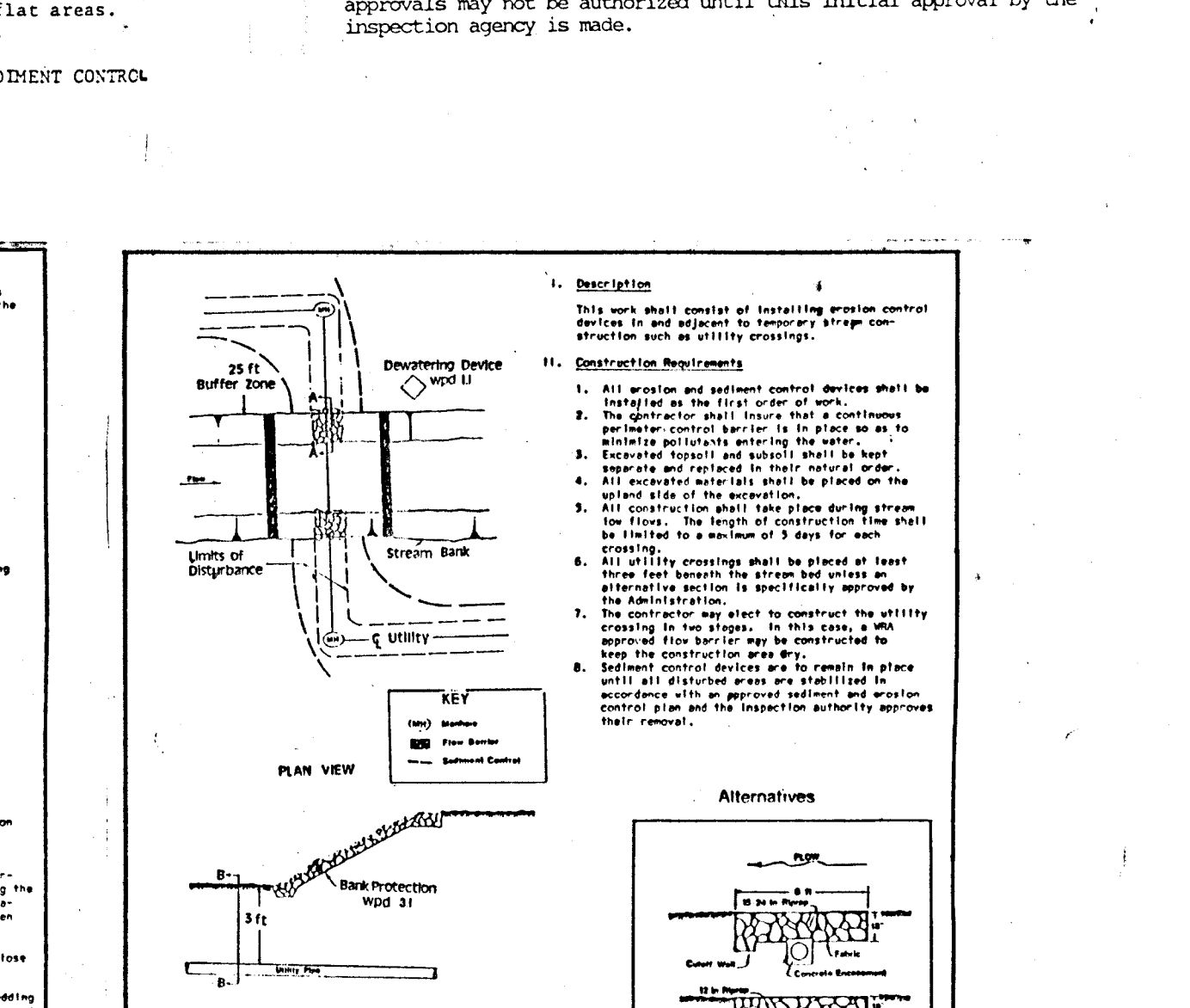
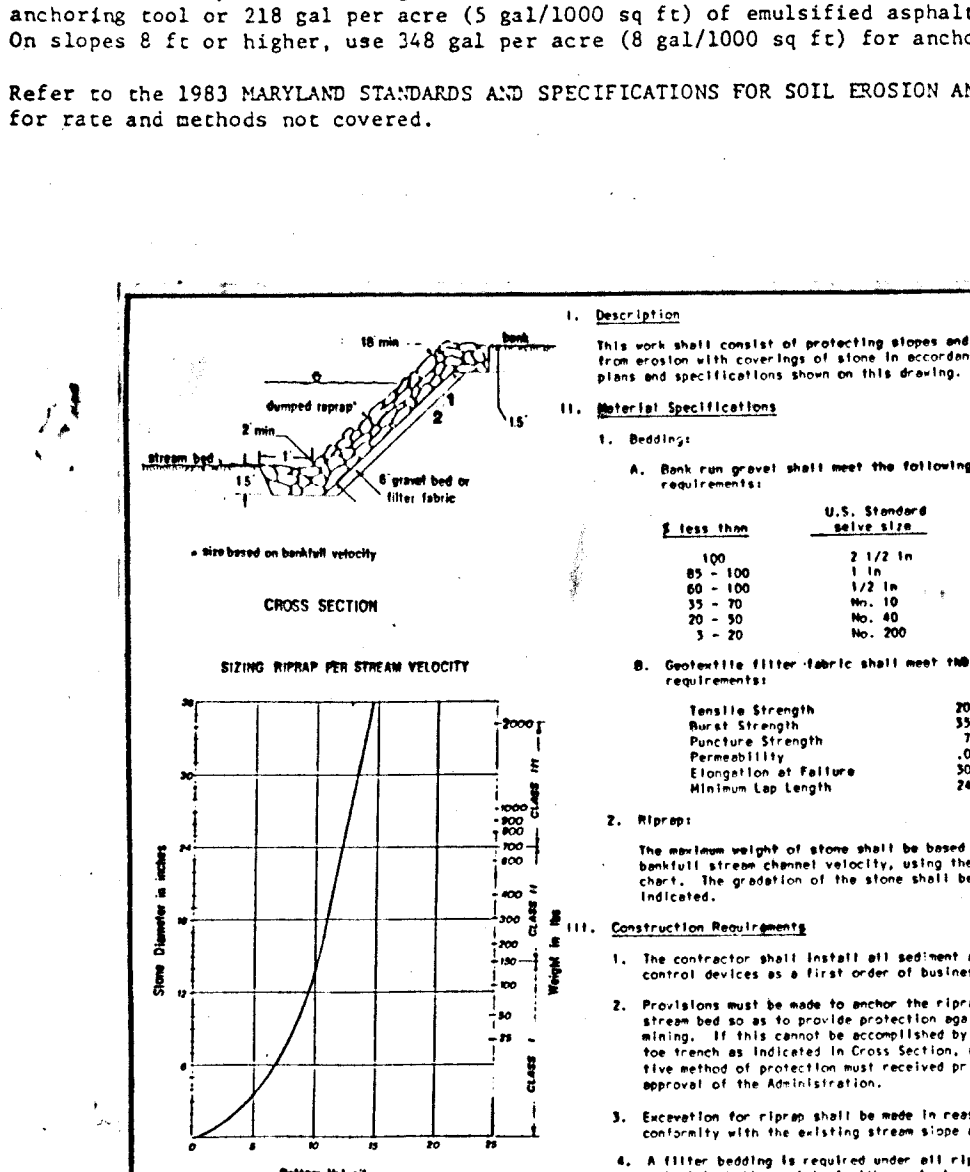
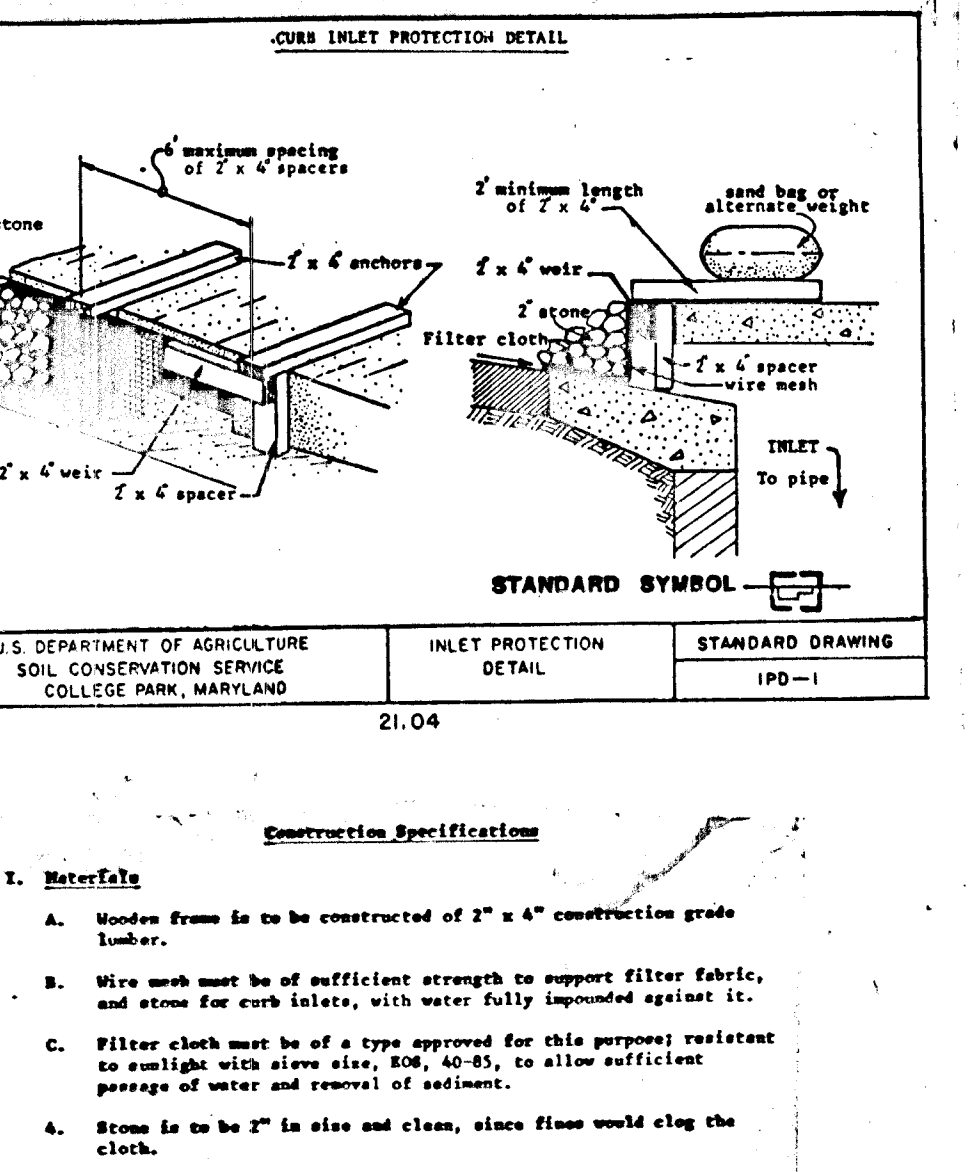
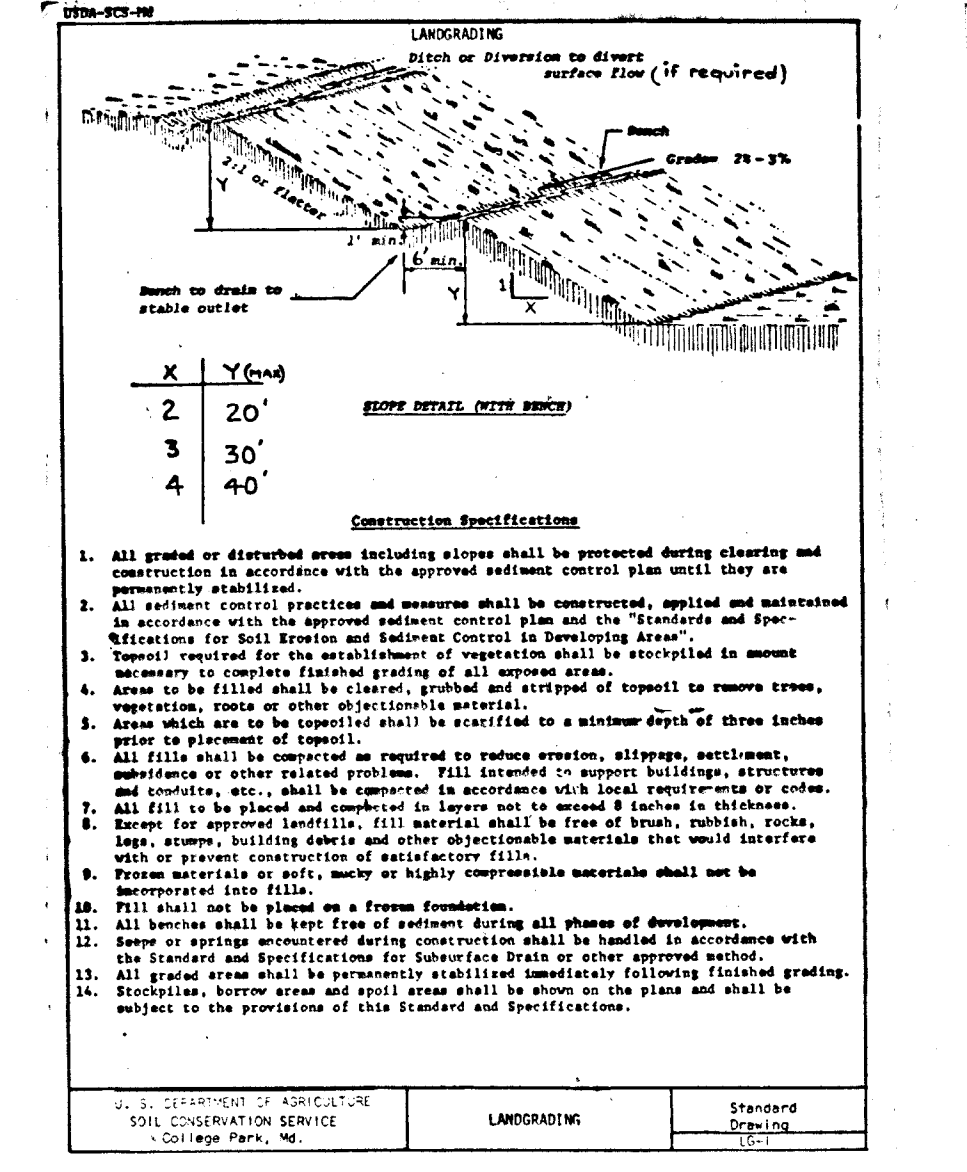
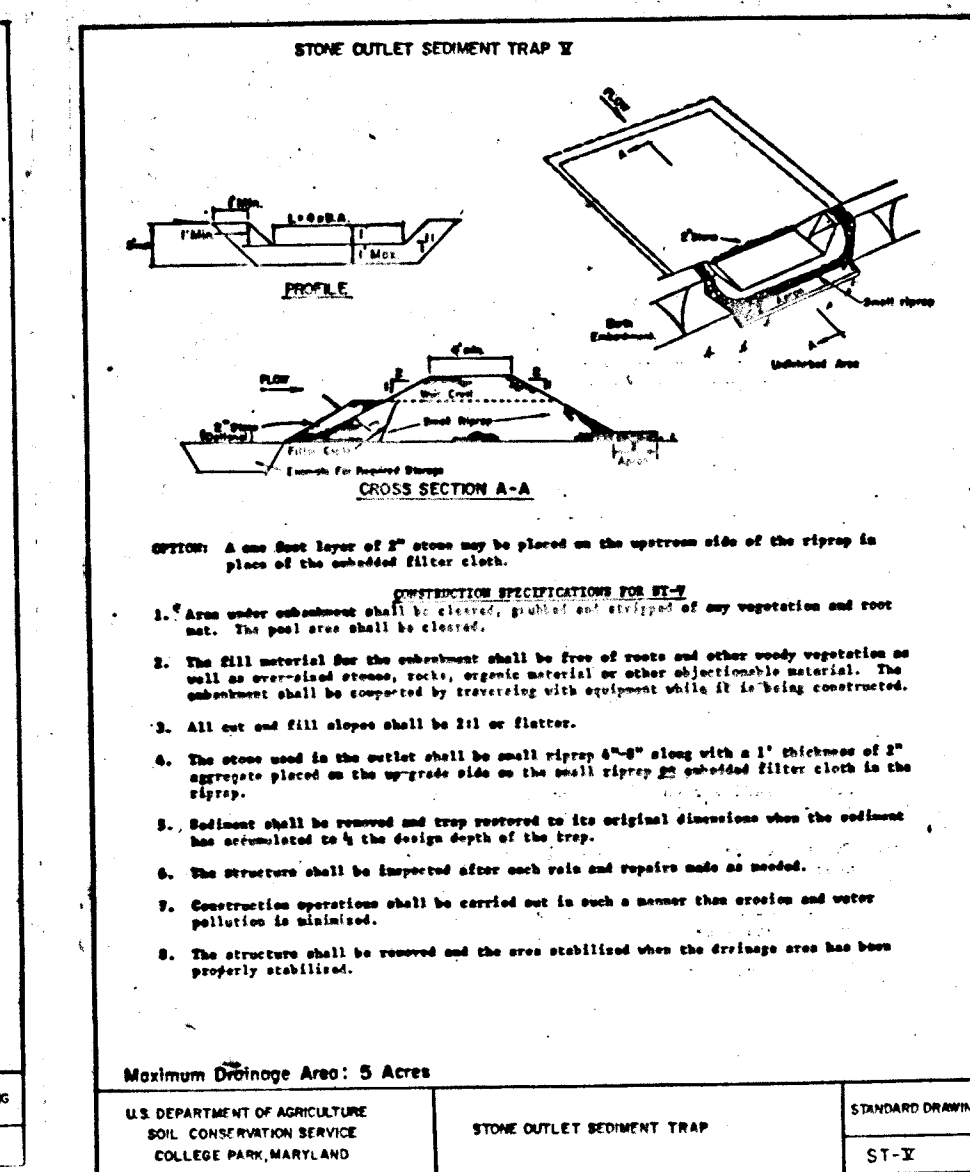
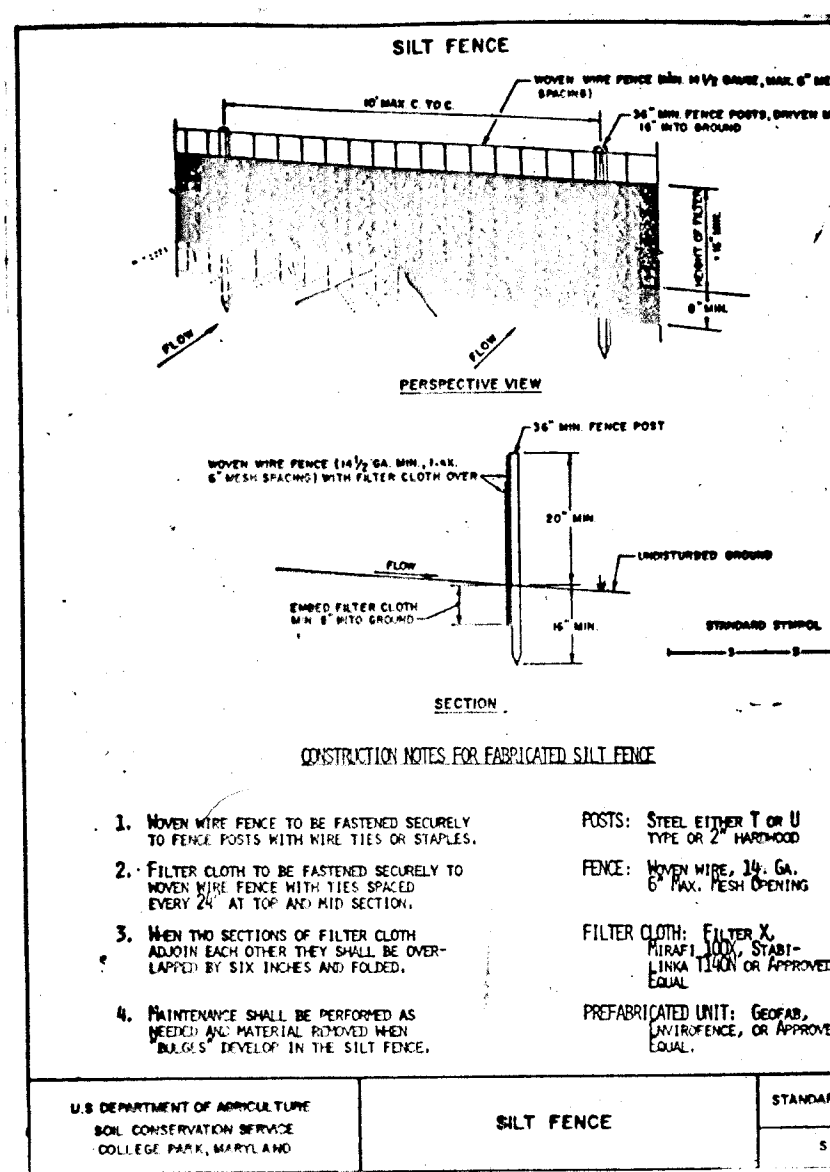
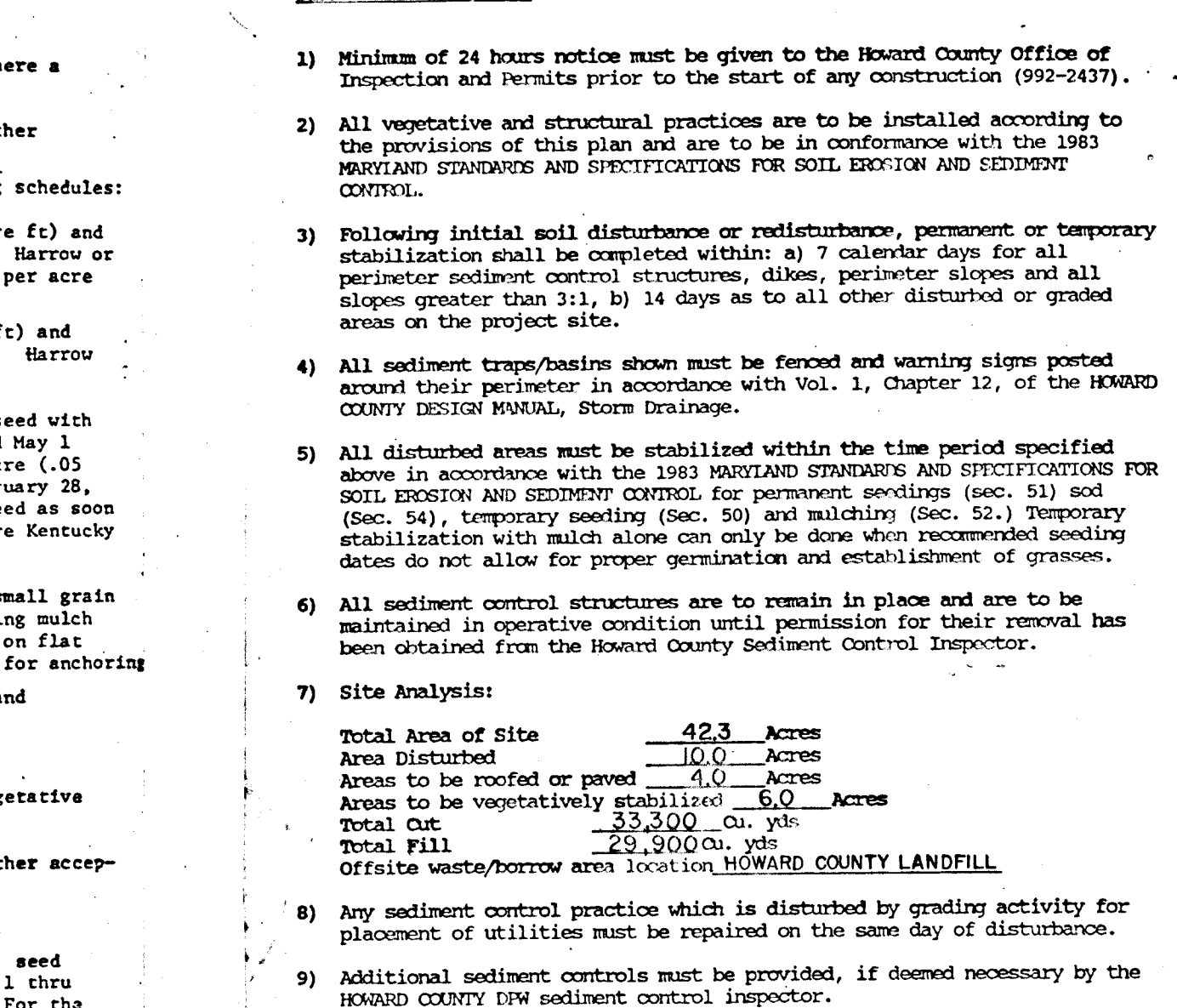
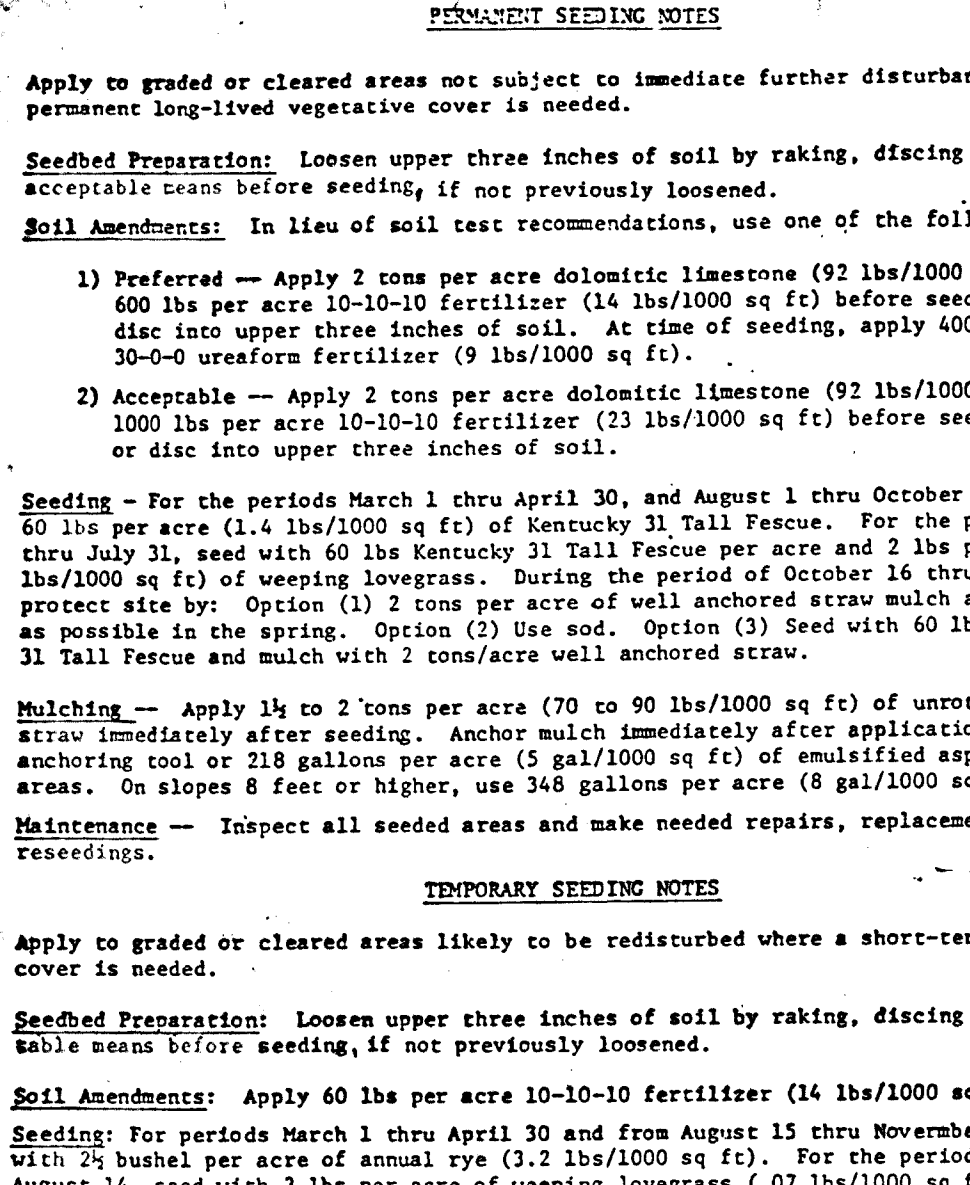
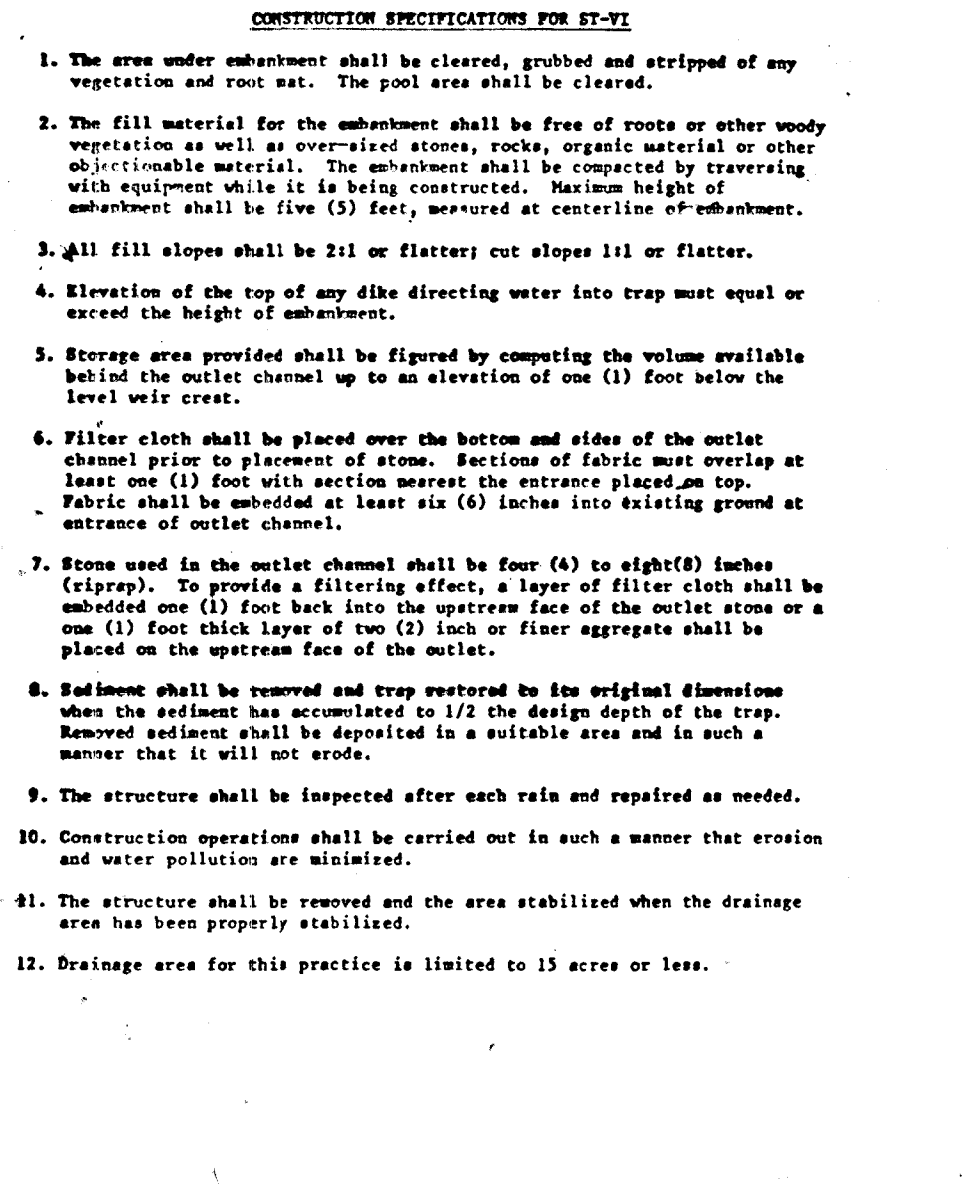
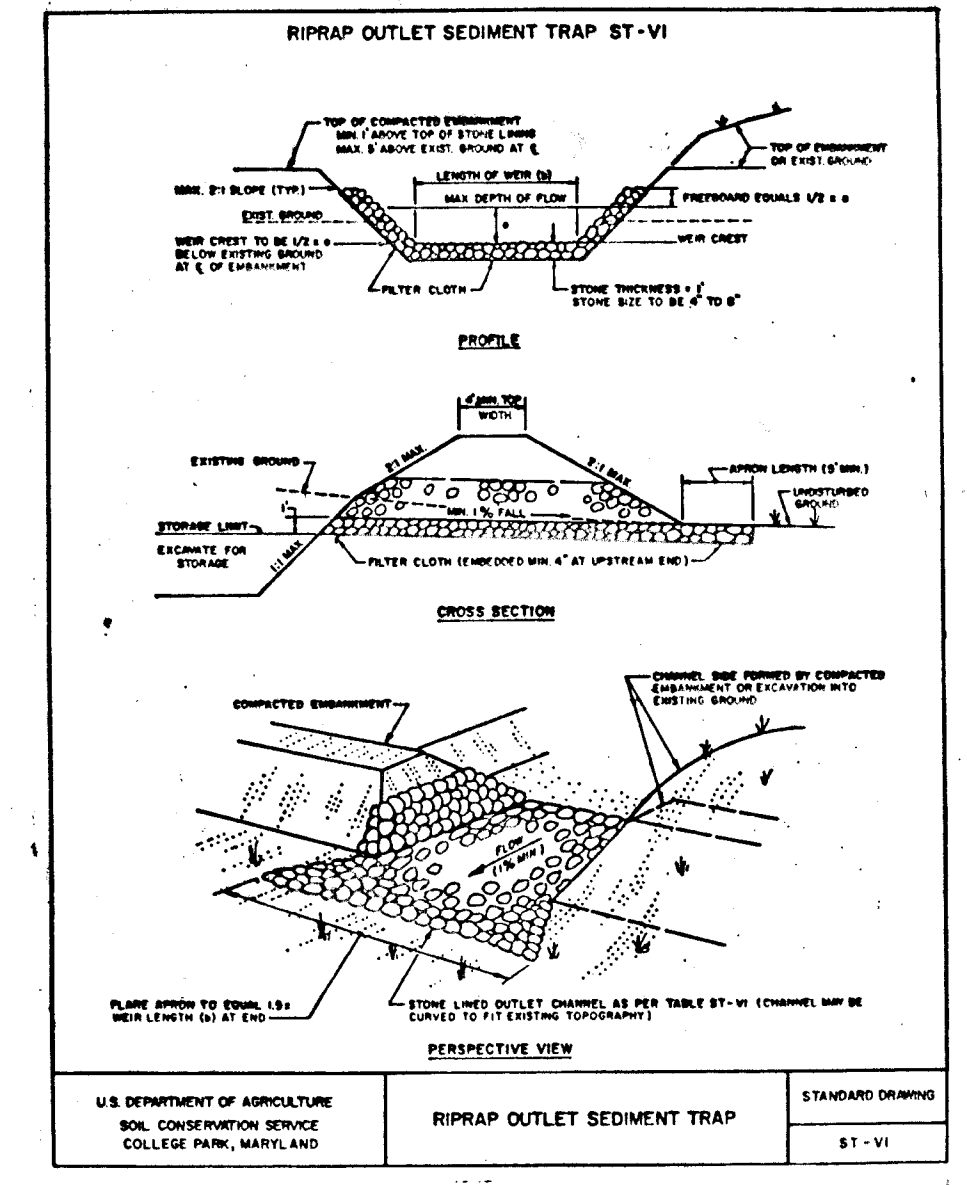
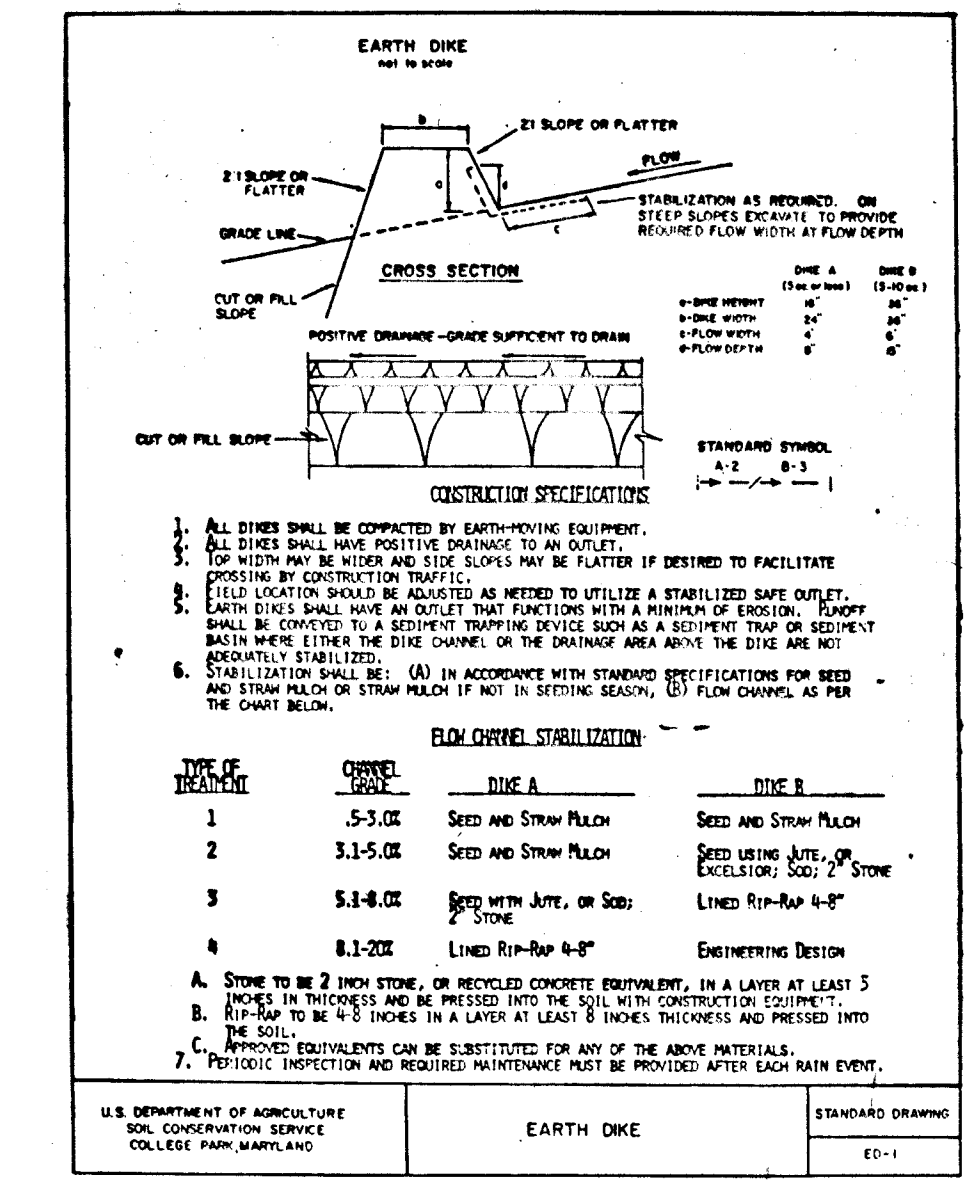
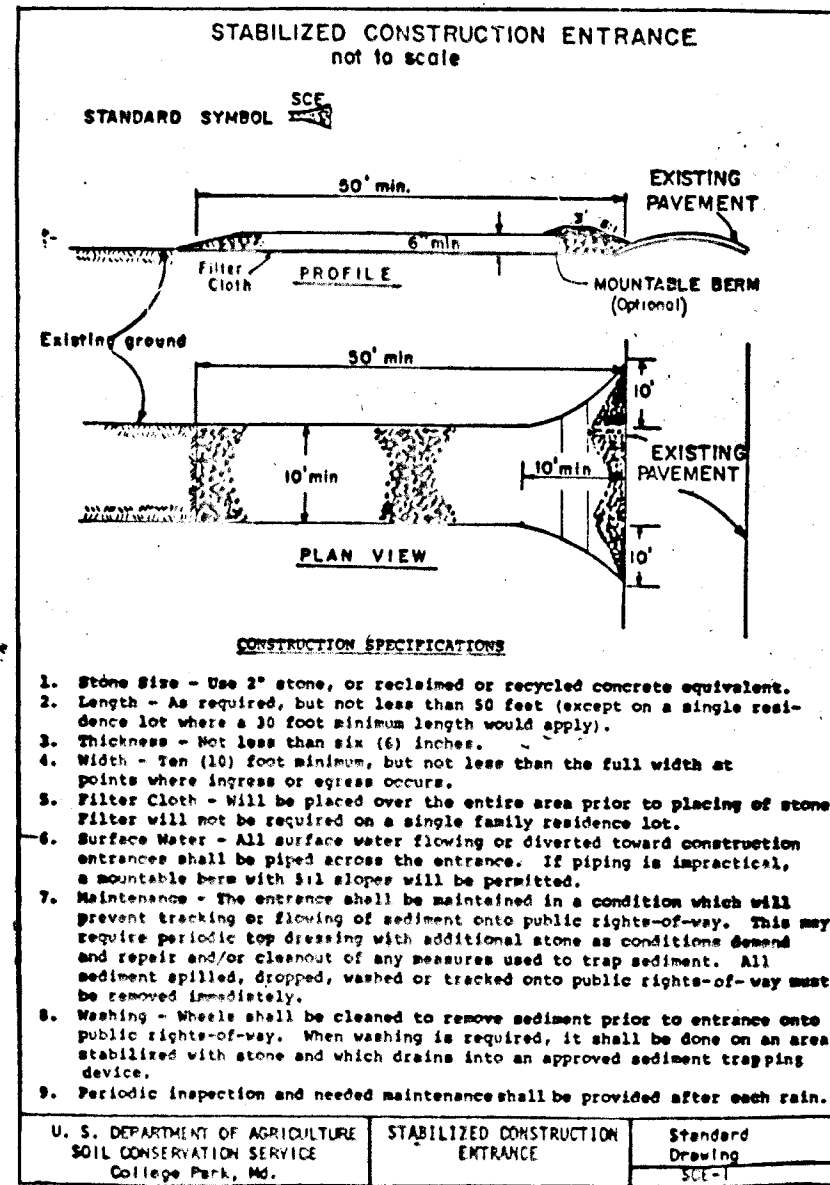
ANNA BELLE BROYLES & JAMES HIGAN
1221/228
1.73 Ac.
6100 BALTIMORE WASHINGTON BLVD
ZONE: B-2
TAX MAP 38 P.881

MATCH LINE C THIS SHEET

1623

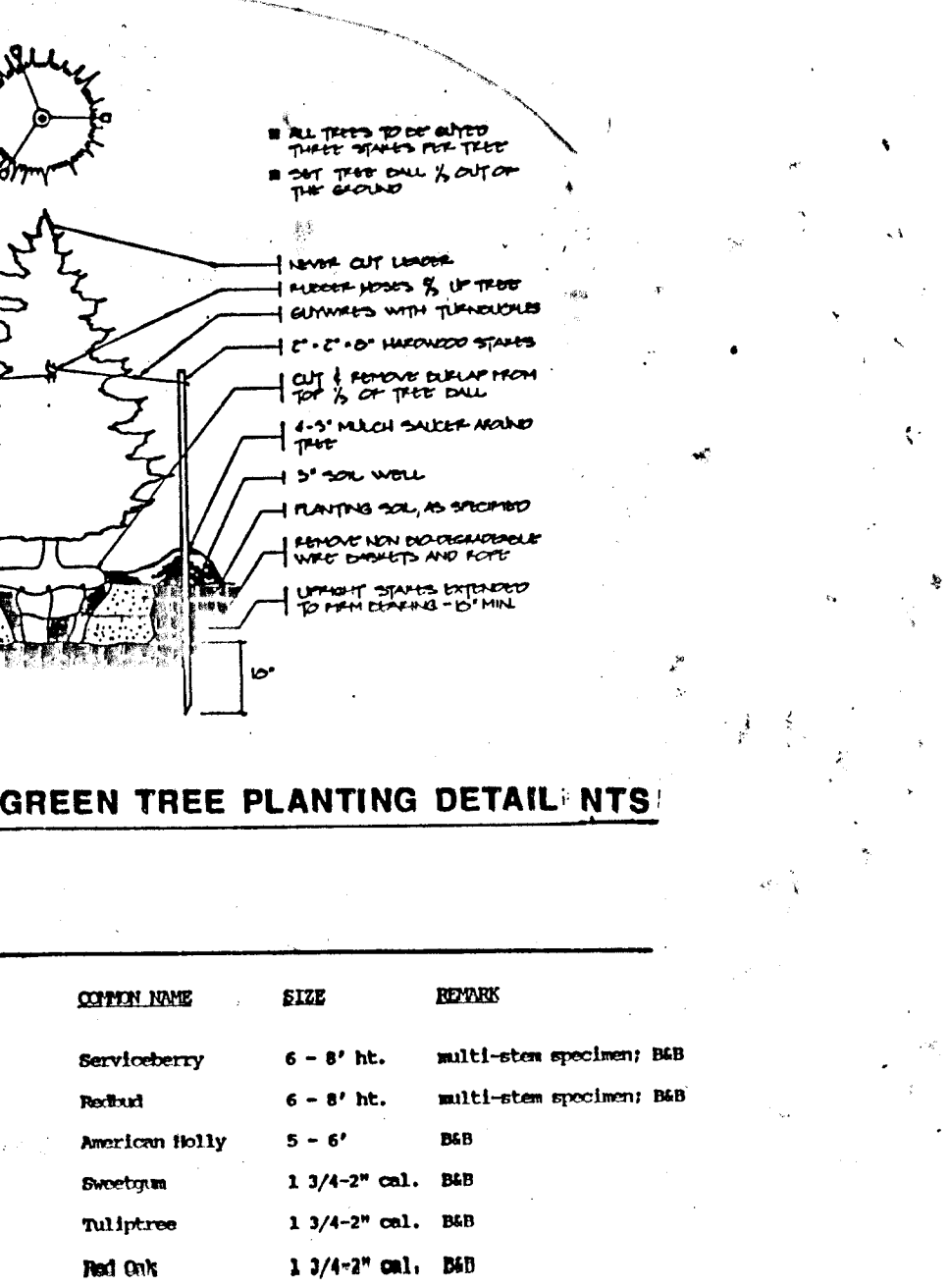
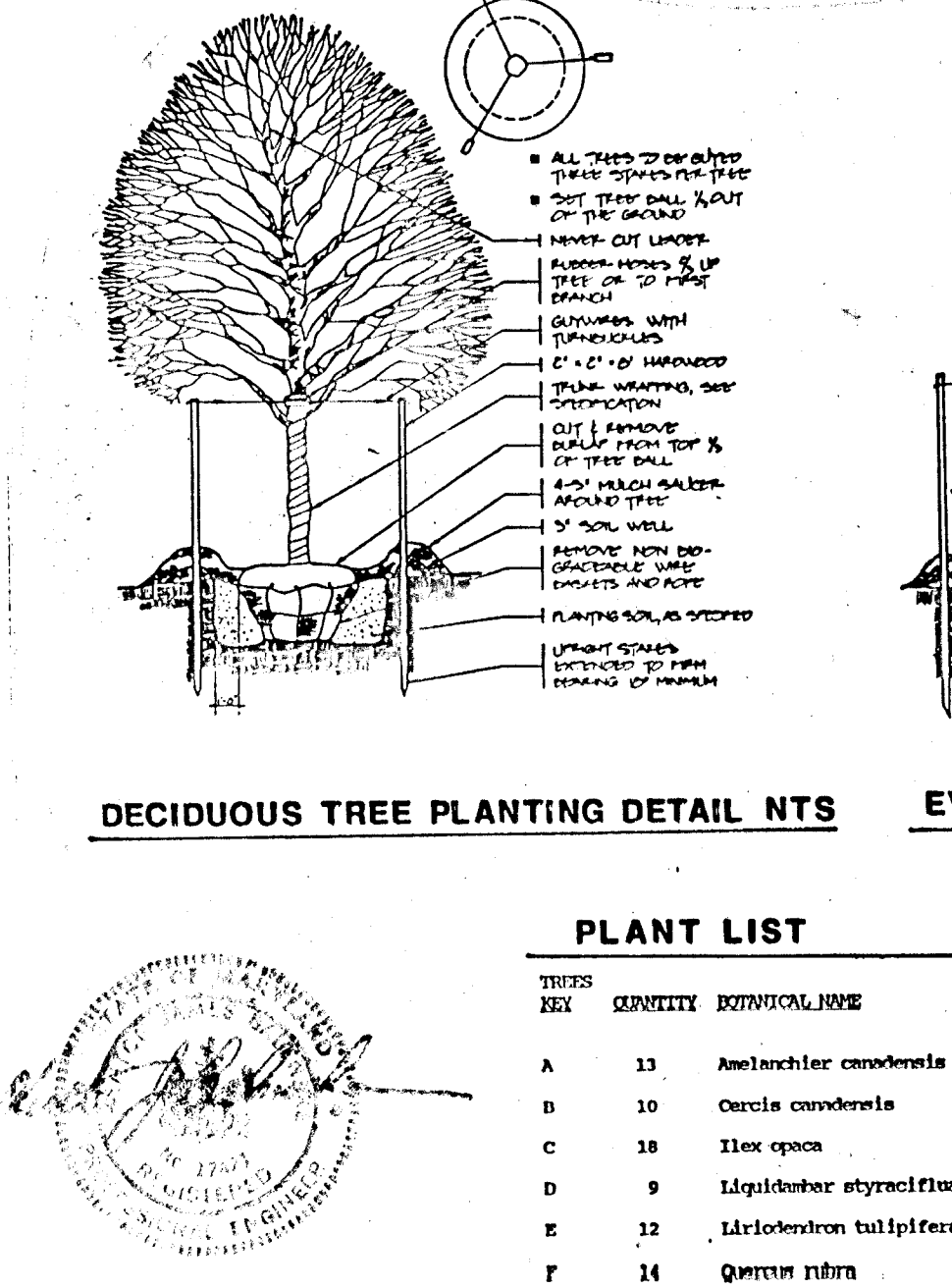
<p>Greenman-Pedersen, Inc. ENGINEERS-ARCHITECTS/PLANNERS 14504 GREENVIEW DRIVE, SUITE 100 LAUREL MD. 20708 (301) 470-2772 WASHINGTON (301) 880-3055 BALTIMORE</p>	<p>ENGINEER'S CERTIFICATE</p> <p>"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE 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 NOTICED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."</p> <p>8/6/90 DATE</p>	<p>DEVELOPER'S CERTIFICATE</p> <p>"I, THE DEVELOPER, 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 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."</p> <p>8-8-90 DATE</p>	<p>THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND APPROVED FOR CONSTRUCTION, SOIL EROSION, AND SEDIMENT CONTROL.</p> <p>John A. Stator 3/21/91 DATE</p> <p>Related 3/21/91 DATE</p>	<p>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>DATE 4/23/91</p> <p>DATE 4/19/91</p> <p>DATE 4/19/91</p> <p>DATE 4/19/91</p>	<p>REVISIONS</p> <p>DATE BY DESCRIPTION</p> <p>11/16/91 REVISED GRADES ALONG JUDGE DOBBIN CT., ADDED LOT GRADING, REVISED TRAP 3 & 4, REVISED NOISE WALL & LOT LINES</p> <p>7/20/93 REVISED GRADING ON SUMMER HOME TERRACE AT TIE INTO EX. BONNIE VIEW LANE.</p>	<p>"THE GABLES" AT LAWYERS HILL</p> <p>SOILS MAP No. 26</p> <p>FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND</p> <p>TAX MAP 32 PARCELS 23, 230, 341 & 529</p> <p>DRAWING NO. 88145.PP SCALE 1"=50' DATE 2/12/91 SHEET NO. 12 OF 16</p>
	<p>SEE SHEET 13 FOR UTILITY CROSSING RIP RAP PROTECTION DETAILS</p>					





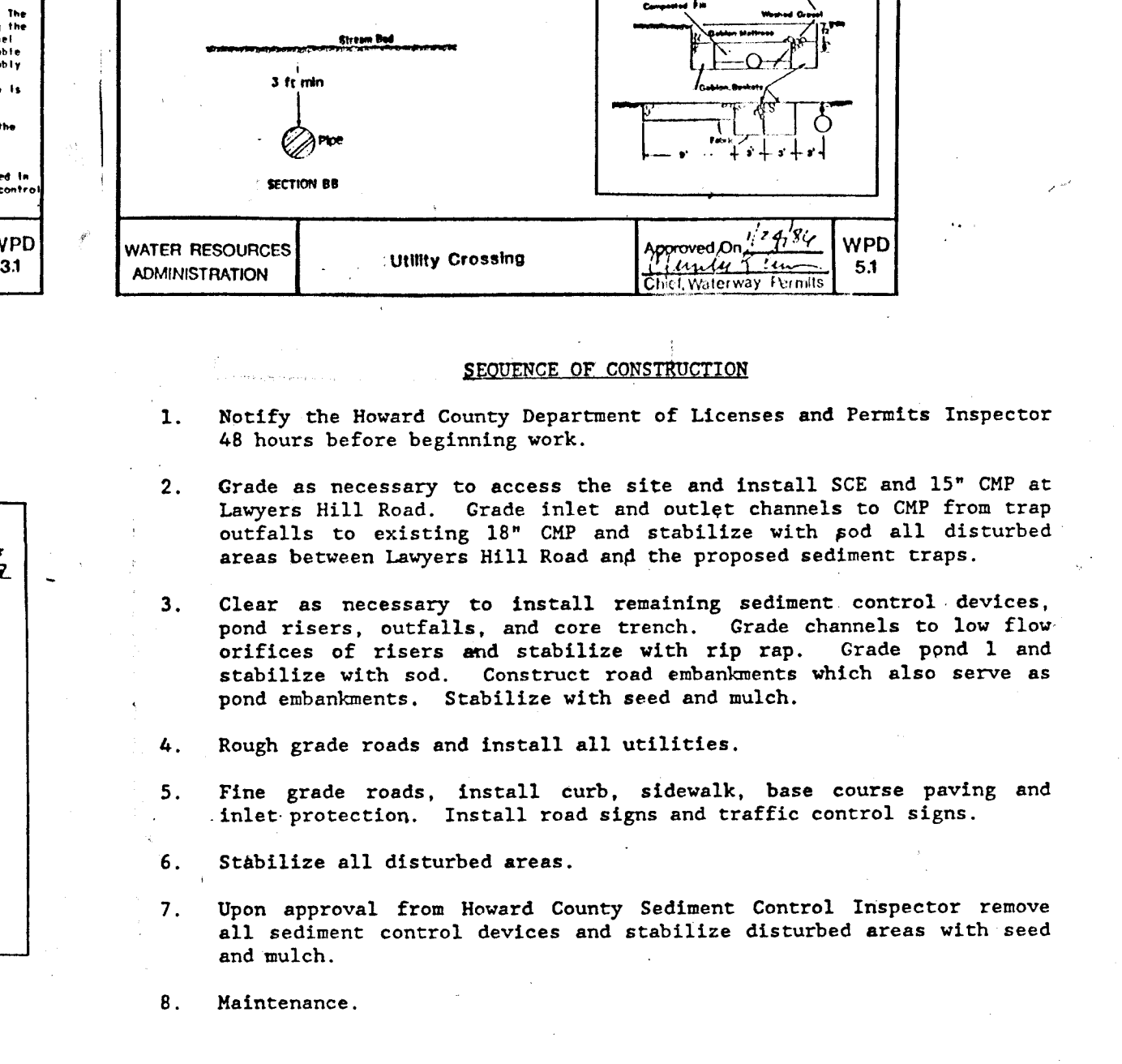
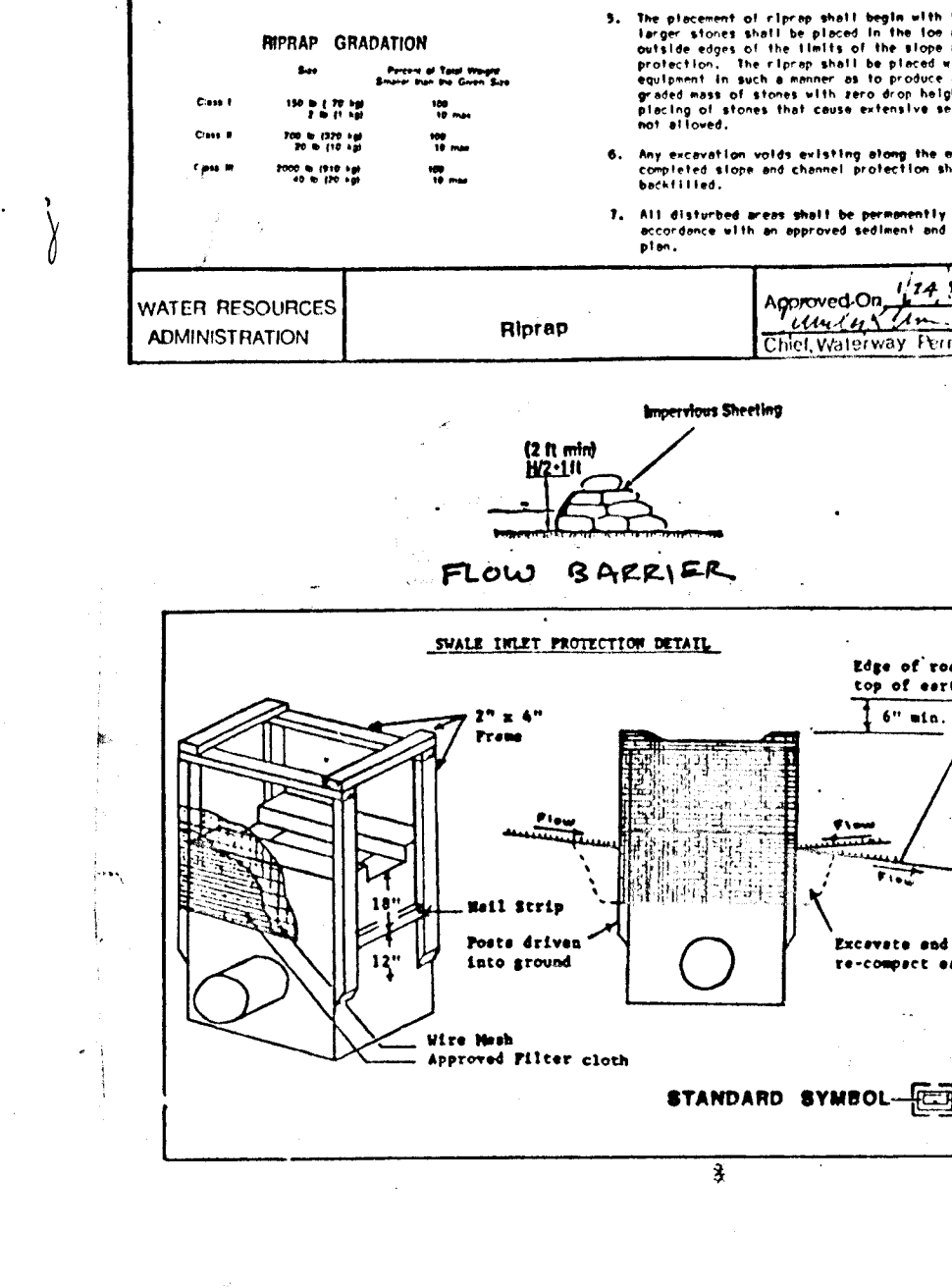
GENERAL NOTES:

- Plants shall conform to current American Standards for Nursery Stock by American Association of Nurserymen (AAS), particularly with regards to size, growth, stage of fall, and density of branch structure.
- All plants (B&P or container) shall be properly identified by weather-proof labels securely attached thereto before delivery to project site. Labels shall identify plants by name, species, and size. Labels shall not be removed until the final inspection by the Landscape Architect.
- Any material or work may be rejected by the Landscape Architect if it does not meet the requirements of the specifications. All rejected materials shall be removed from the site by the Contractor.
- The Contractor shall furnish all plants in quantities and sizes to complete the work as specified in plant schedule.
- Substitutions in plant species or size shall not be permitted except with the written approval of the Landscape Architect.
- Plants shall be located as shown on the drawings and by staking or as designated in the field by the Landscape Architect. All locations are to be approved by the Landscape Architect before excavation.
- Contractor shall contact Miss Utility prior to any excavation.
- If utility lines are encountered in excavation of tree pits, other locations for trees shall be selected by the Landscape Architect. Such changes shall be made by the contractor without additional compensation. No changes of location shall be made without the approval of the Landscape Architect.
- Contractor shall first locate and mark the underground utilities and delineate the utility easement areas where no planting shall take place, prior to locating and digging the pits for the trees.
- All equipment and vehicles shall be placed so as not to interfere or hinder the pedestrian and vehicular traffic flow.
- During planting operation, access and site materials shall be properly and frequently removed from the site.
- The Landscape Architect shall be responsible to verify all plant quantities prior to commencement of work. Quantities in the schedule are for the Contractor's convenience.
- All disturbed areas of the site not planted with shrubs or ground cover shall be seeded with lawn seeds.
- All planting beds as shown on the plan are to receive a 1-4" of shredded hardwood bark mulch after planting and cleanup operations have been completed.
- All berm areas not planted with shrubs or ground cover shall be seeded with a wildflower seed mixture.
- All sediment traps shall be removed completely and restored before planting.



PLANT LIST

TREE	QUANTITY	REMARKS	DATE
A	10	Azalea/hibiscus	3/26/91
B	10	Arbutus/hibiscus	3/26/91
C	10	Hydrangea	3/26/91
D	10	Japanese maple	3/26/91
E	10	Japanese maple	3/26/91
F	10	Japanese maple	3/26/91



GreenPac Inc.
 ENGINEERS/ARCHITECTS/PLANNERS
 14504 GREENVIEW DRIVE, SUITE 100
 LAUREL MD. 20708
 (301) 470-2772 WASHINGTON
 (301) 880-3055 BALTIMORE

ENGINEER'S CERTIFICATE
 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 COUNTY DEPARTMENT OF PLANNING AND ZONING. I HAVE NOTICED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Robert J. Zehn 3/26/91
 DATE

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION WILL HAVE A CERTIFICATE OF COMPLETION FROM THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

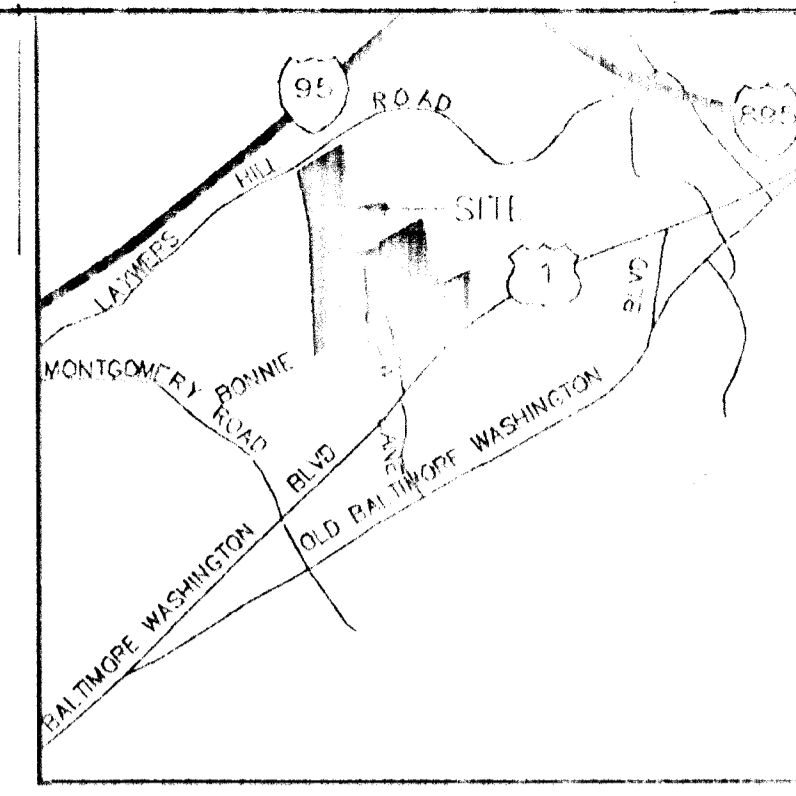
Robert J. Zehn 3/26/91
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE: 3/26/91
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: 3/26/91

REVISIONS

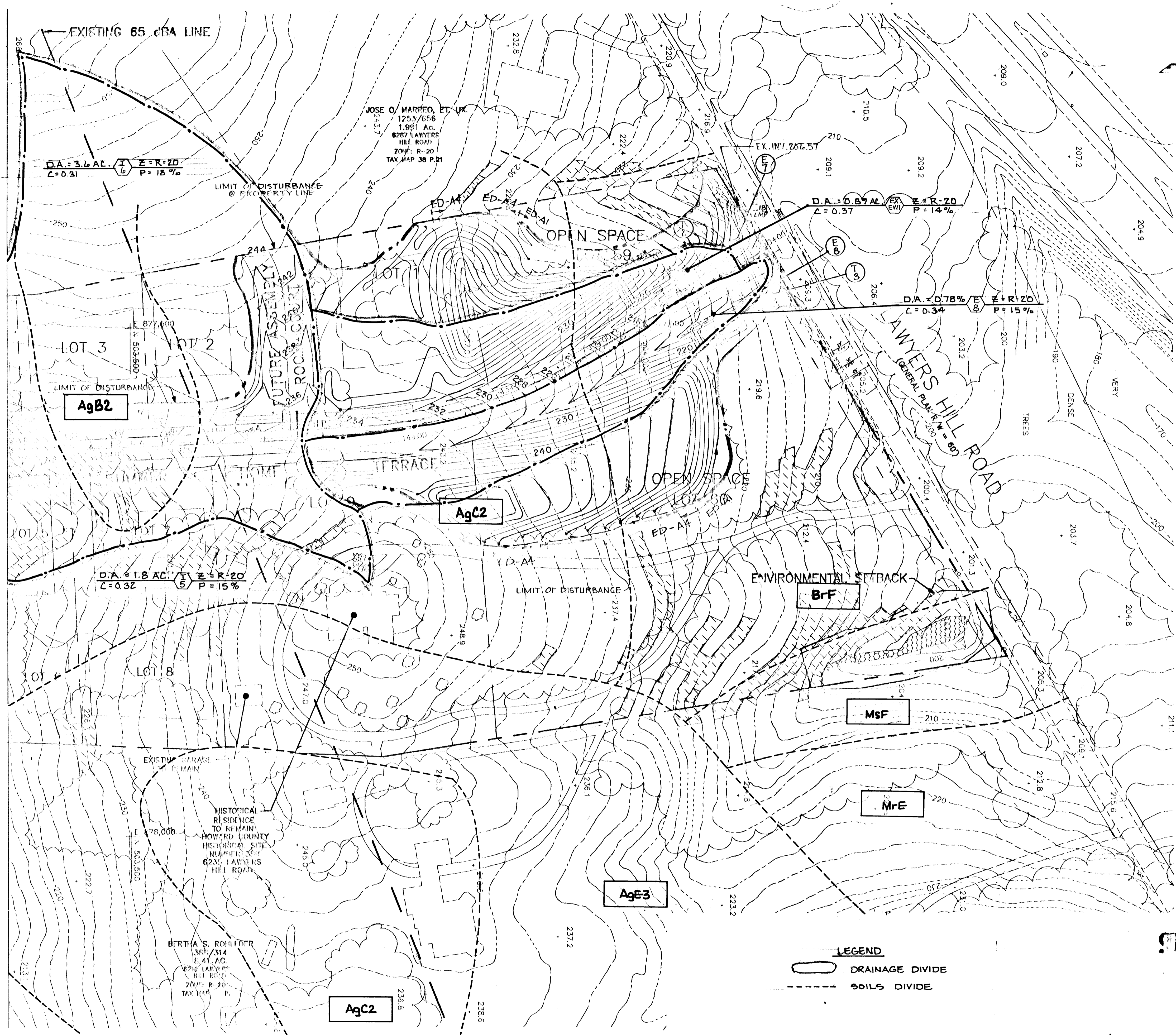
NO.	DATE	DESCRIPTION
1	3/26/91	Initial Issue
2	3/26/91	Revised

"THE GABLES" AT LAWYERS HILL
 SEDIMENT CONTROL NOTES AND DETAILS
 AND LANDSCAPE PLAN
 SOILS MAP NO. 26
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 TAX MAP 32 PARCELS 23, 230, 341 & 529
 DRAWING NO. 88145.PP SCALE 1"=50' DATE 2/12/91 SHEET 13 OF 16



VICINITY MAP
SCALE: 1" = 2000'

MATCH LINE A SEE SHEET 15



- LEGEND**
- ENVIRONMENTAL GRADING / BUILDING SETBACK*
 - LIMIT OF SUBDIVISION
 - WETLAND LOCATION (FIELD LOCATED)
 - BUILDING RESTRICTION LINE
 - STREAM BANK

- GENERAL NOTES**
1. ZONING: R-20
 2. GROSS AREA: 42.0 ACRES
 3. AREA OF LOTS: 36.8 ACRES
 4. AREA OF ROADS: 5.1 ACRES
 5. LOT TYPES: BUILDABLE - 58
OPEN SPACE - 7
 6. PUBLIC WATER AND SEWER SYSTEMS

- DENSITY TABULATION**
- ALLOWABLE: 42.0 AC x 2.0 LOTS/AC = 84
PROPOSED: 58 LOTS / 42.0 AC = 1.4 DU/AC
- OPEN SPACE TABULATION**
- REQUIRED: 42.0 AC x 20.0% = 8.4 AC
(4.2 AC NON-WETLAND/SLOPE/FLOOD PLAN/SWM FORD REQUIRED)
PROVIDED: (AC NON-WETLAND/SLOPE/FLOOD PLAN/SWM FORD PROVIDED)

DEVELOPER

ORCHARD DEVELOPMENT CORPORATION
7050 DAKIN MILLS ROAD, SUITE 100
COLUMBIA, MD 21046

GREENMAN - PEDERSEN, INC.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL, MD 20708
(301) 470-2772

- LEGEND**
- DRAINAGE DIVIDE
 - SOILS DIVIDE

THIS DRAWING FOR DRAINAGE AREAS AND SOILS ONLY.

Greenman - Pedersen, Inc.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL, MD 20708
(301) 470-2772 WASHINGTON
(301) 680-3055 BALTIMORE

PROJECT'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, PRESENTS 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 ADVISED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Robert J. Balaban 3/6/90

DEVELOPER'S CERTIFICATE

I HEREBY 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 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.

Robert J. Balaban 3-21-91

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, EROSION, AND SEDIMENT CONTROL.

Robert J. Balaban 3/26/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James H. Heston 3/26/91

Robert J. Balaban 3/26/91

REVISION	DESCRIPTION	DATE	BY
1	INITIAL DESIGN	4/13/91	<i>James H. Heston</i>
2	REVISED DESIGN	4/14/91	<i>James H. Heston</i>
3	REVISED DESIGN	4/14/91	<i>James H. Heston</i>
4	REVISED DESIGN	4/14/91	<i>James H. Heston</i>

"THE GABLES" AT LAWYERS HILL

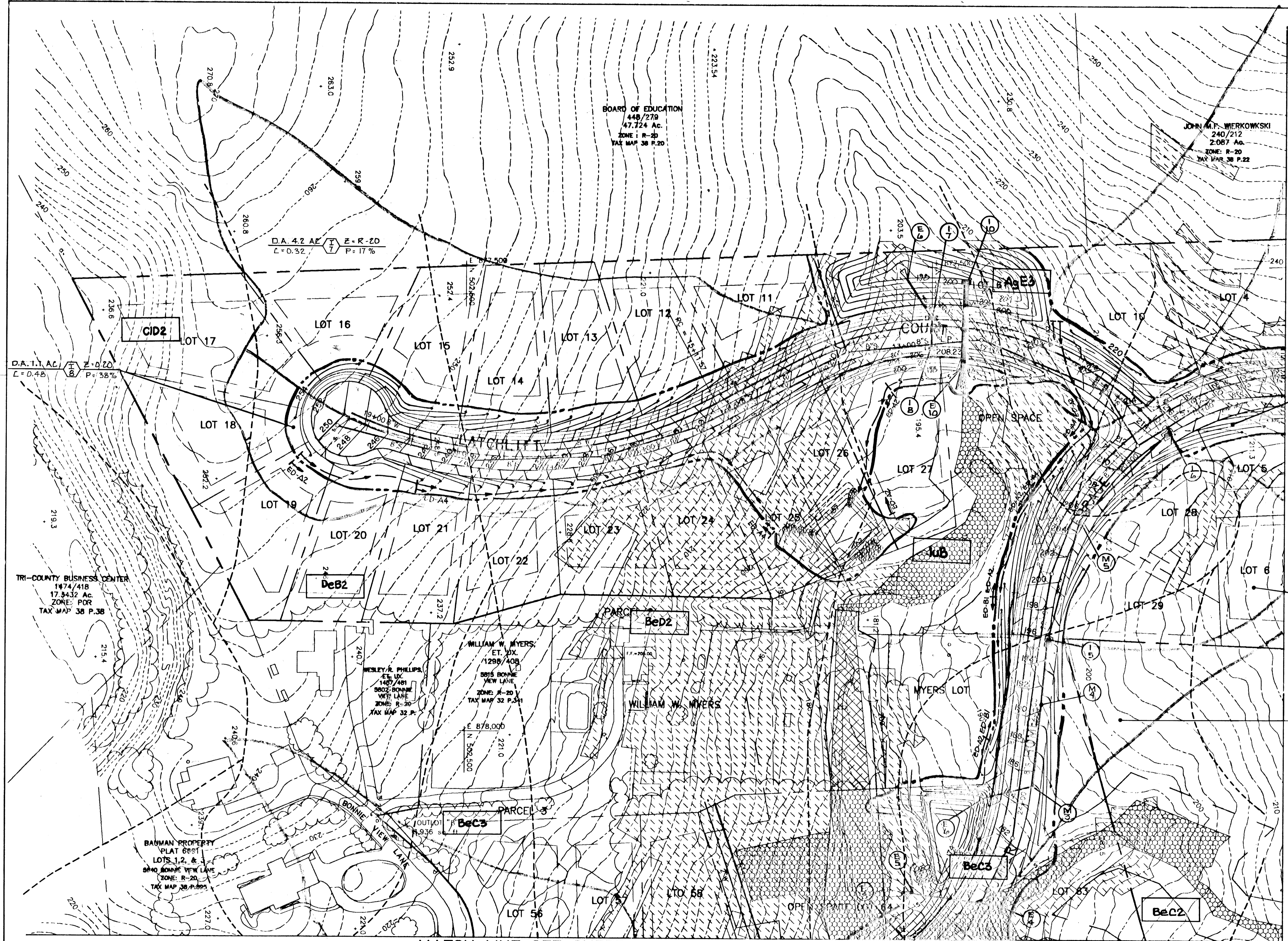
SOILS AND DRAINAGE AREA MAP

SOILS MAP NO. 26

FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TAX MAP 32 PARCELS 23, 23C, 341 & 129

DRAWING NO. 26
DATE 2/12/91
SCALE 1" = 2000'



MATCH LINE A SEE SHEET 14

- D.A. = 3.1 AC $\frac{1}{8}$ E = R-20
 L = 0.32 P = 15%
- LEGEND**
 --- 100 YR. FLOODPLAIN
 --- LIMIT OF DISTURBANCE *
 --- LIMIT OF SUBDIVISION
 [Symbol] WETLAND LOCATION (FIELD LOCATED)
 [Symbol] WETLAND LOCATION (APPROXIMATE)
 [Symbol] 15% TO 25% SLOPE
 [Symbol] 25% AND STEEPER SLOPES
 [Symbol] <0.000> UNUSEABLE OPEN SPACE
- * GREATER OF 75' FROM STREAMBANK
 OR 25' FROM WETLANDS
- D.A. = 1.8 AC $\frac{1}{5}$ E = R-20
 L = 0.32 P = 15%
- D.A. = 3.4 AC $\frac{1}{2}$ E = B-20
 L = 0.43 P = 33%

MATCH LINE SEE SHEET 16

THIS DRAWING FOR DRAINAGE AREAS AND SOILS ONLY.

1623

Greenman-Pedersen, Inc.
 ENGINEERS/ARCHITECTS/PLANNERS
 14504 GREENVIEW DRIVE, SUITE 100
 LAUREL MD. 20708
 (301) 470-2772 WASHINGTON
 (301) 880-3055 BALTIMORE

ENGINEER'S CERTIFICATE
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Robert J. Ziehm 8/6/90
 DATE

DEVELOPER'S CERTIFICATE
 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 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.
William W. Myers 3-21-91
 DATE

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.
Robert W. Ziehm 3/26/91
 DATE

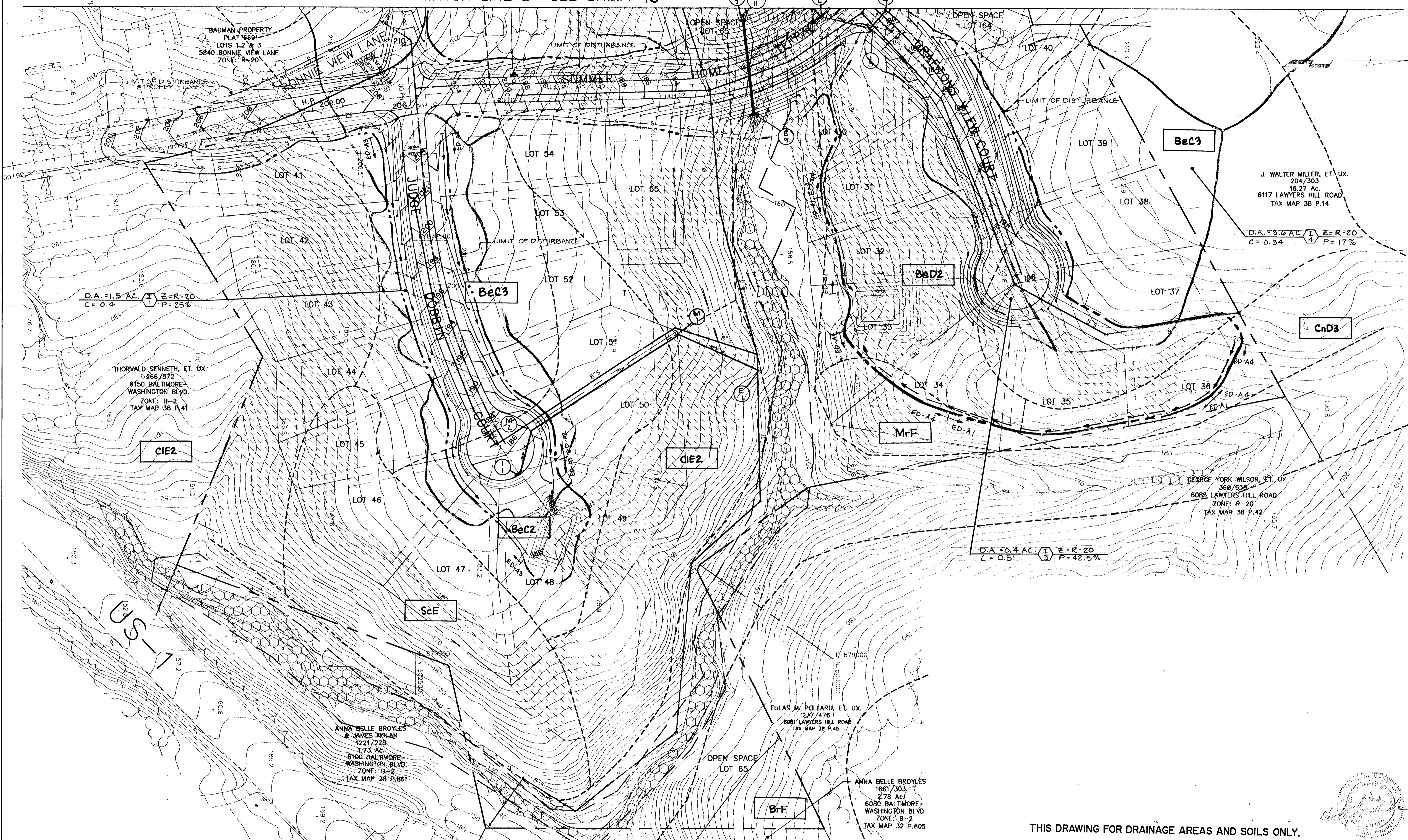
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
John M. Holm 3/26/91
 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Draville W. Weiland 4/13/91
 DATE
 CHIEF, BUREAU OF HIGHWAYS

REVISIONS	
DATE	DESCRIPTION

SHEET NO. 15 OF 16
 PLAT # OR L/F BLOCK NO. 7201E TAX/ZONE ELEC. DIST. CENSUS TR.
 WATER CODE SEWER CODE

"THE GABLES" AT LAWYERS HILL
 SOILS AND DRAINAGE AREA MAP
 SOILS MAP No. 26
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 TAX MAP 32 PARCELS 23, 230, 341 & 529
 DRAWING NO. BB145.PP SCALE 1"=50' DATE 2/12/91 SHEET NO. 15 OF 16
 F-91-30



THIS DRAWING FOR DRAINAGE AREAS AND SOILS ONLY.



1623

gpi
Greenman-Pedersen, Inc.
ENGINEERS/ARCHITECTS/PLANNERS
14504 GREENVIEW DRIVE, SUITE 100
LAUREL, MD. 20708
(301) 470-2777 WASHINGTON
(301) 880-3055 BALTIMORE

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Robert J. Zahms 8/6/90 DATE

DEVELOPER'S CERTIFICATE
I HEREBY 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 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.
A. Williams 3-21-91 DATE

ALL PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND APPROVED FOR CONSTRUCTION, SOIL EROSION, AND SEDIMENTATION CONTROL. DATE: 3/26/91
Robert J. Zahms 3/26/91
CONSULTOR, DISTRICT DATE:

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Mark L. Zager 4/21/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. Zahms 4-19-91
CHIEF, BUREAU OF ENGINEERING
Granville W. Weiland 4/23/91
CHIEF, BUREAU OF HIGHWAYS DATE:

REVISIONS	
DATE	DESCRIPTION

PROJECT NO. 88145.PH
BLOCK NO. 23, 230, 341 & 529
ZONE: R-20
ELEC. DIST. 4
DENSITY: 17%

"THE GABLES" AT LAWYERS HILL
SOILS AND DRAINAGE AREA MAP
SOILS MAP No. 26
FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TAX MAP 32 PARCELS 23, 230, 341 & 529
DRAWING NO. 88145.PH
SCALE: 1" = 50'
DATE: 2/12/91
SHEET NO. 16 OF 16