

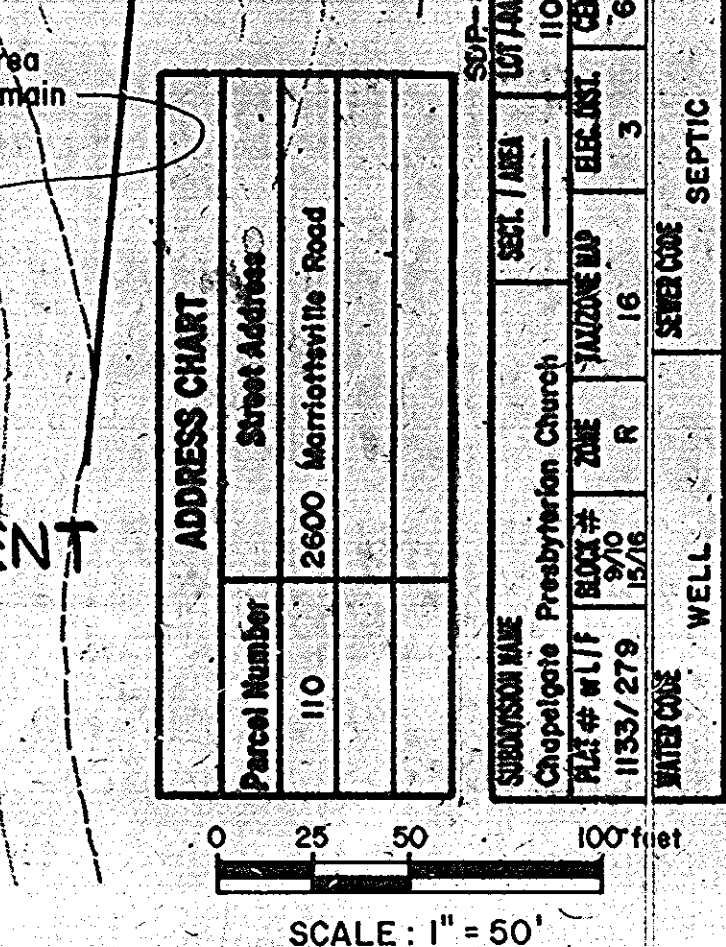
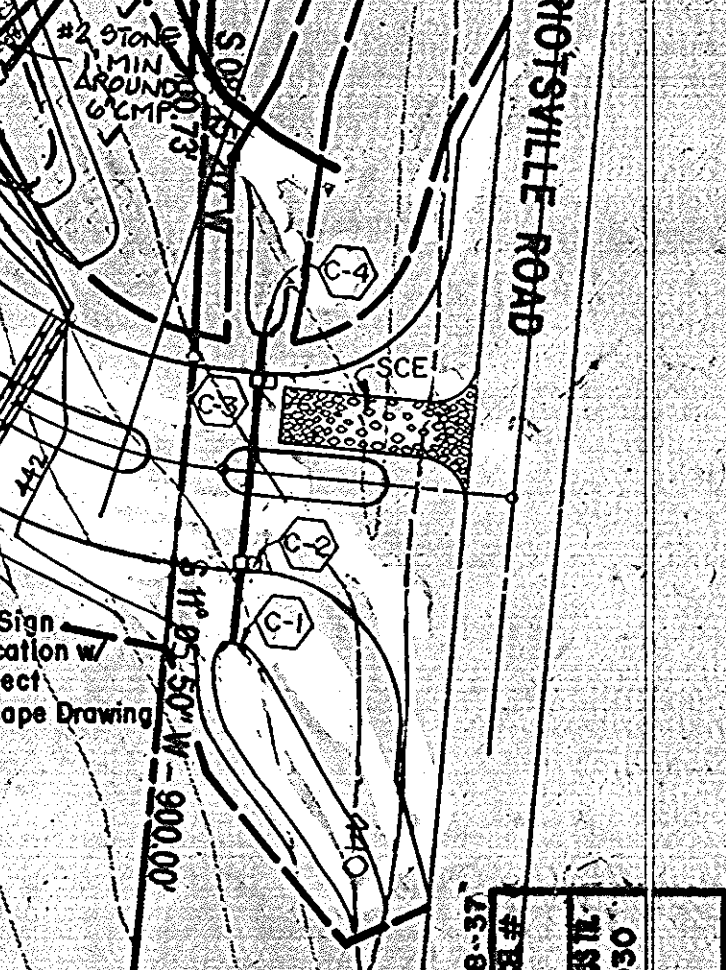
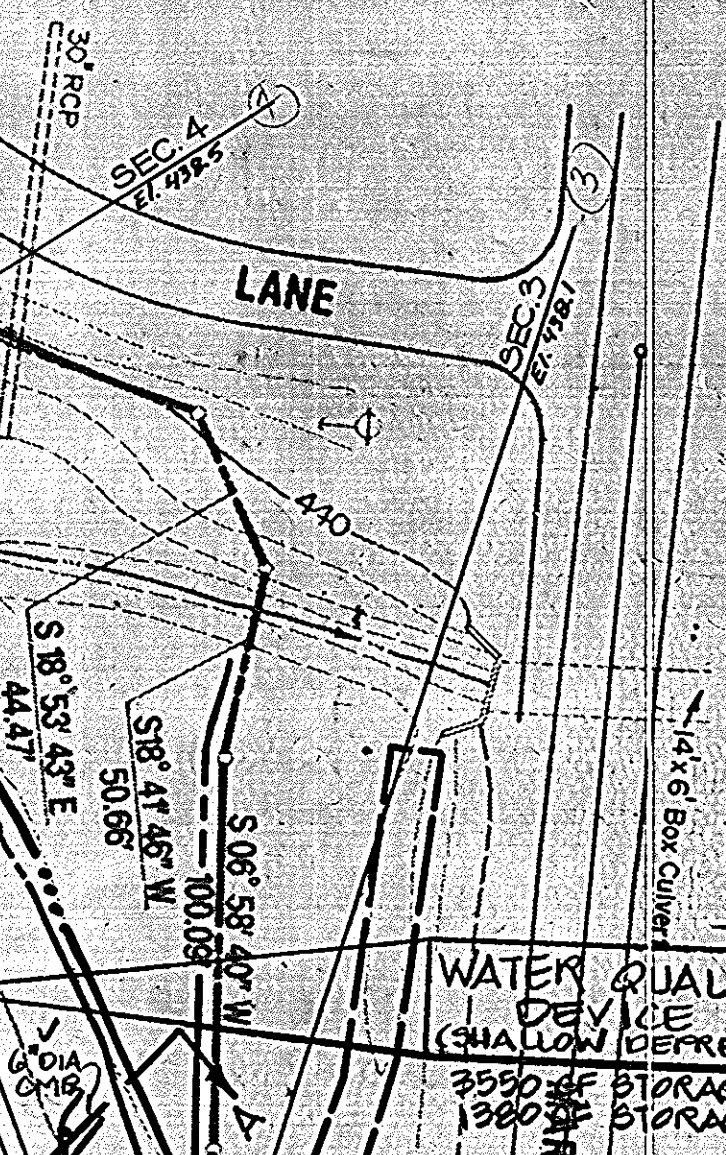
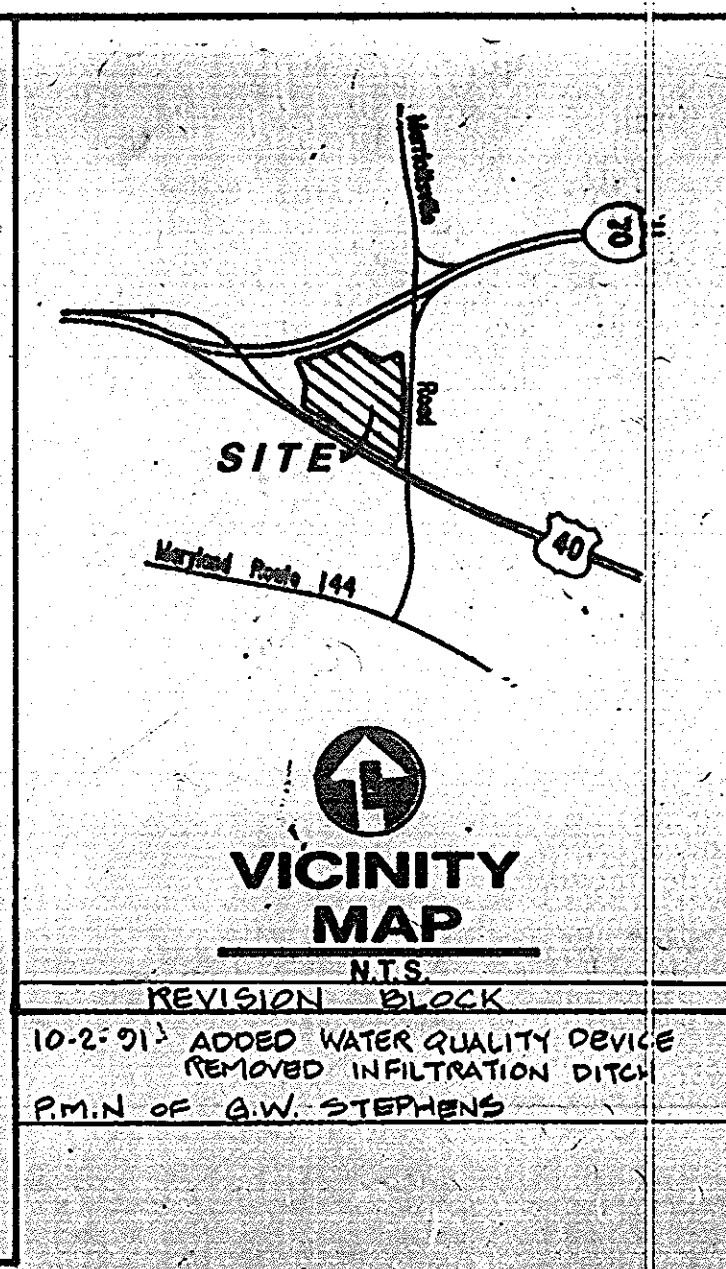
PREPARED BY:
THOMAS & MILLER
750 OLD HICKORY BLVD.
BRENTWOOD, TN 37027
(615) 377-9773

SITE DEVELOPMENT PLAN S/M AS-BUILT
CHAPELGATE PRESBYTERIAN CHURCH | Elliott City, Maryland

OWNER:
CHAPELGATE PRESBYTERIAN CHURCH
581 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 21043



FILE NO.	C-4-1
DATE	MAR 8, 1988
DATE	MAY 11, 1988
DATE	SEPT 12, 1988
DATE	JAN 3, 1989
DATE	FEB 27, 1989
SHEET	C-1 OF 9



LEGEND

Sanitary Sewerline — 6" — SS
Storm Sewerline — 15" — SD
Fire Line (From Pond) — 6" — FL
Cleanout — CO
Existing Colour — 500
Final Colour — 500
Fire Hydrant — FH
Drainage Flow — DF
Approximate Boring Location — B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-24, B-25, B-26, B-27, B-28, B-29, B-30, B-31, B-32, B-33, B-34, B-35, B-36, B-37, B-38, B-39, B-40, B-41, B-42, B-43, B-44, B-45, B-46, B-47, B-48, B-49, B-50, B-51, B-52, B-53, B-54, B-55, B-56, B-57, B-58, B-59, B-60, B-61, B-62, B-63, B-64, B-65, B-66, B-67, B-68, B-69, B-70, B-71, B-72, B-73, B-74, B-75, B-76, B-77, B-78, B-79, B-80, B-81, B-82, B-83, B-84, B-85, B-86, B-87, B-88, B-89, B-90, B-91, B-92, B-93, B-94, B-95, B-96, B-97, B-98, B-99, B-100

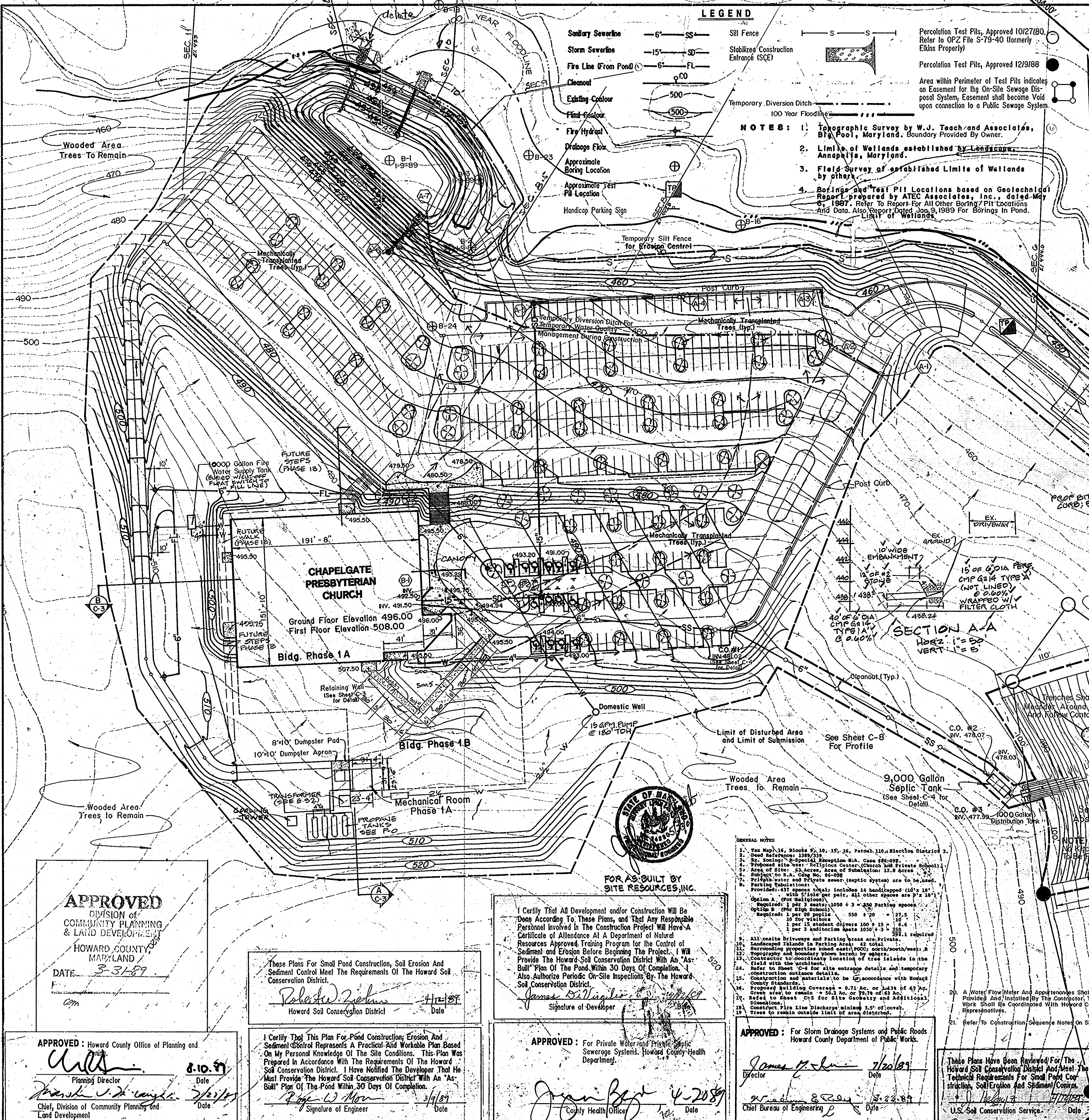
Percolation Test Pits, Approved 10/27/80. Refer to OPZ File S-79-40 (formerly Elkins Property)

Percolation Test Pits, Approved 12/9/88

Area within Perimeter of Test Pits indicates an Easement for the On-Site Sewage Disposal System, Easement shall become Void upon connection to a Public Sewage System

NOTES:

1. Topographic Survey by W.J. Teach and Associates, Btg. Pool, Maryland. Boundary Provided by Owner.
2. Limits of Wetlands established by Landscapers, Annapolis, Maryland.
3. Field Survey of established Limits of Wetlands by others.
4. Borings and Test Pit Locations based on Geotechnical Report prepared by ATEC Associates, Inc., dated May 6, 1987. Refer to Report For All Other Boring/Pit Locations and Data. Also Report Dated Jan 9, 1989 For Borings in Pond.



APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 3-3-89

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.
Robert J. Zelner
Howard Soil Conservation District
Date: 4/11/89

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 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. Also, Authorize Periodic On-Site Inspections By The Howard Soil Conservation District.
James R. Williams
Signature of Developer

APPROVED: For Private Water and Private Septic Sewerage Systems, Howard County Health Department.
John Berg
County Health Officer
Date: 4-20-89

APPROVED: For Storm Drainage Systems and Public Roads Howard County Department of Public Works.
James M. ...
Director
Date: 7/20/89

These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.
...
U.S. Soil Conservation Service
Date: 7/27/89

- GENERAL NOTES**
1. Tax Map 16, Blocks 9, 10, 15, 16, Parcel 110, Election District 3.
 2. Deed Reference: 1287/31.
 3. Zoning: R-Special Exception No. Case #88-292.
 4. Construction Site Water Pollution Control (CWS) and Private Sewer.
 5. Area of Site: 6.2 Acres, Area of Subdivision: 12.8 Acres.
 6. Subject to 2nd and 3rd Mortgages.
 7. Private Water and Private Sewer (septic system) are to be used.
 8. Existing Subdivisions are to be used.
 9. Provided: 437 spaces (total) includes 14 handicapped (16' x 18' minimum) with 5' clearances.
 10. Option A (see Section 10.1):
Required: 1 per 3 seats: 1050 + 3 = 350 Parking spaces.
Required: 1 per 50 people: 550 + 70 = 620
Option B (see Section 10.2):
1 per 15 student drivers: 100 + 15 = 6.6
1 per 3 handicapped seats: 100 + 3 = 33.3
Total: 390.9 required.
 11. All onsite driveways and parking areas are private.
 12. Handicapped Islands in Parking Area: 42 total.
 13. Surrounding properties shall install 1000 gallon/feet/week.
 14. Topography and boundary shown here by survey.
 15. Contractor to coordinate location of tree islands in the field with the architect.
 16. Refer to sheet C-2 for site entrance details and temporary construction entrance details.
 17. Construction and materials to be in accordance with Howard County Standards.
 18. Proposed building coverage = 0.71 Ac. or 44% of 49 Ac. Area to remain = 52.29 Ac. or 87.7% of 60 Ac.
 19. Refer to sheet C-5 for Site Geometry and Additional Dimensions.
 20. Construct Pipe Line Discharge at least 2' of cover.
 21. Trees to remain outside limit of area disturbed.
 22. Refer to Construction Sequence Notes on Sheet C-7.

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

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, rocks 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 or 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: Hexon, Plasti-Coat, Blac-Klad, and Beth-Co-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO 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-196 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 or exceed ASTM Specification C-361. An approved equivalent is AWMA 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.
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.

V. CONCRETE

1. Materials

- a. **Cement** - Normal Portland cement shall conform to the latest ASTM Specification C-150.
 - b. **Water** - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
 - c. **Sand** - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
 - d. **Coarse Aggregate** - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.
 - e. **Reinforcing Steel** - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.
2. **Design Mix** - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.
 3. **Mixing** - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the

speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

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

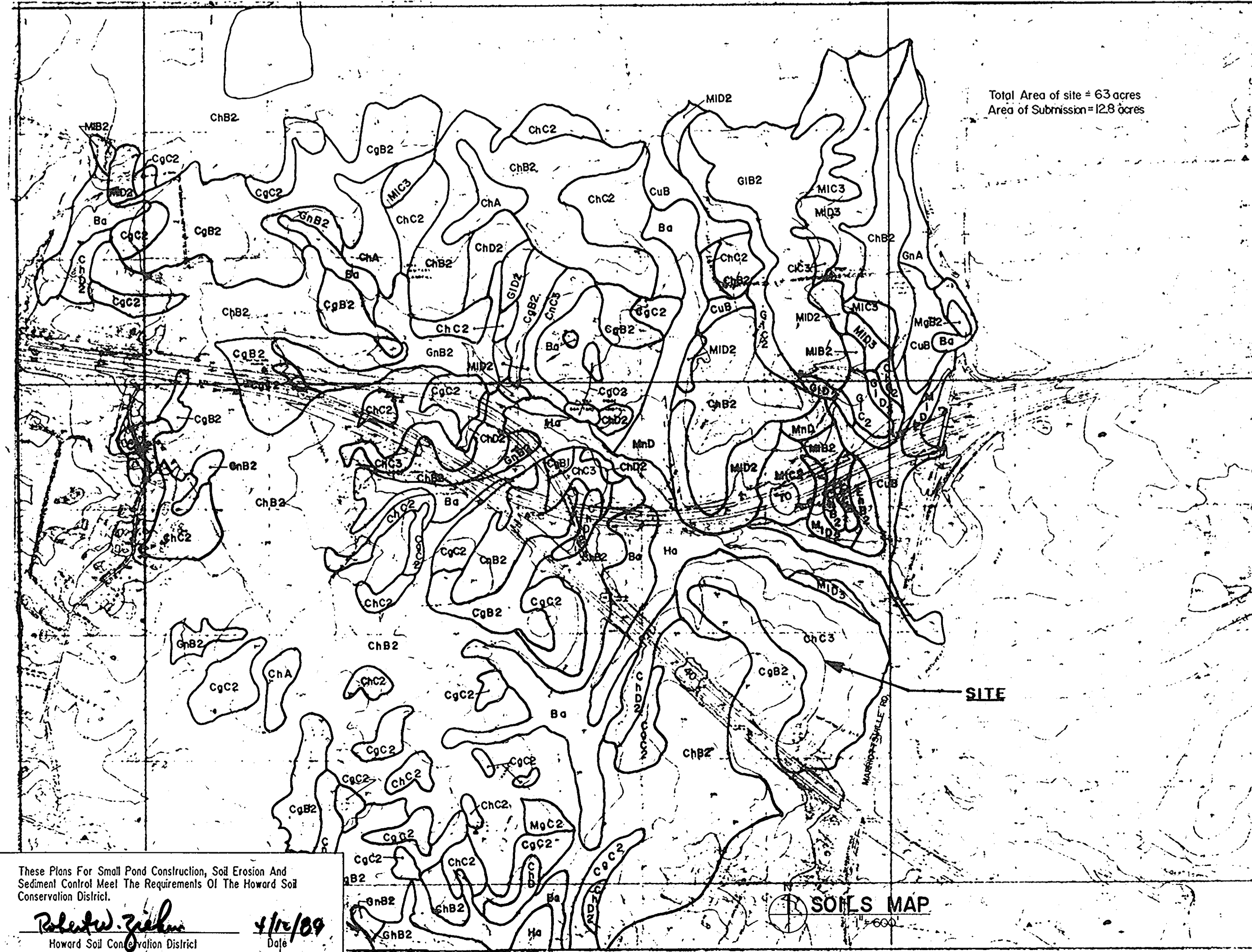
The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

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

5. **Reinforcing Steel** - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.
6. **Consolidating** - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.
7. **Finishing** - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.
8. **Protection and Curing** - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.
9. **Placing Temperature** - Concrete may not be placed at temperatures below 37° 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.



	RED	BLUE
AREA	10.9 Acres	13.5 Acres
RUNOFF CURVE NUMBER		
Predevelopment	55	55
Postdevelopment	81	59

Refer To Sheet C-1 For Flow Paths
Refer To Sheet C-9 For Larger Scale Drainage Map.

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.
J. Helm 4/12/89
U.S. Soil Conservation Service Date

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.
Ray W. Moore 3/1/89
Signature of Engineer Date

APPROVED: For Private Water and Private Septic Sewerage Systems, Howard County Health Department.
Joseph P. ... 4-20-89
County Health Officer Date

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 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.
James De ... 4/12/89
Signature of Developer Date

APPROVED: For Storm Drainage Systems and Public Roads Howard County Department of Public Works.
James P. ... 7/20/87
Inspector Date

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.
Robert W. ... 4/12/89
Howard Soil Conservation District Date

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 3-31-89

APPROVED: Howard County Office of Planning and
... 7.10.89
Planning Director Date
... 7/27/89
Chief, Division of Community Planning and Land Development Date

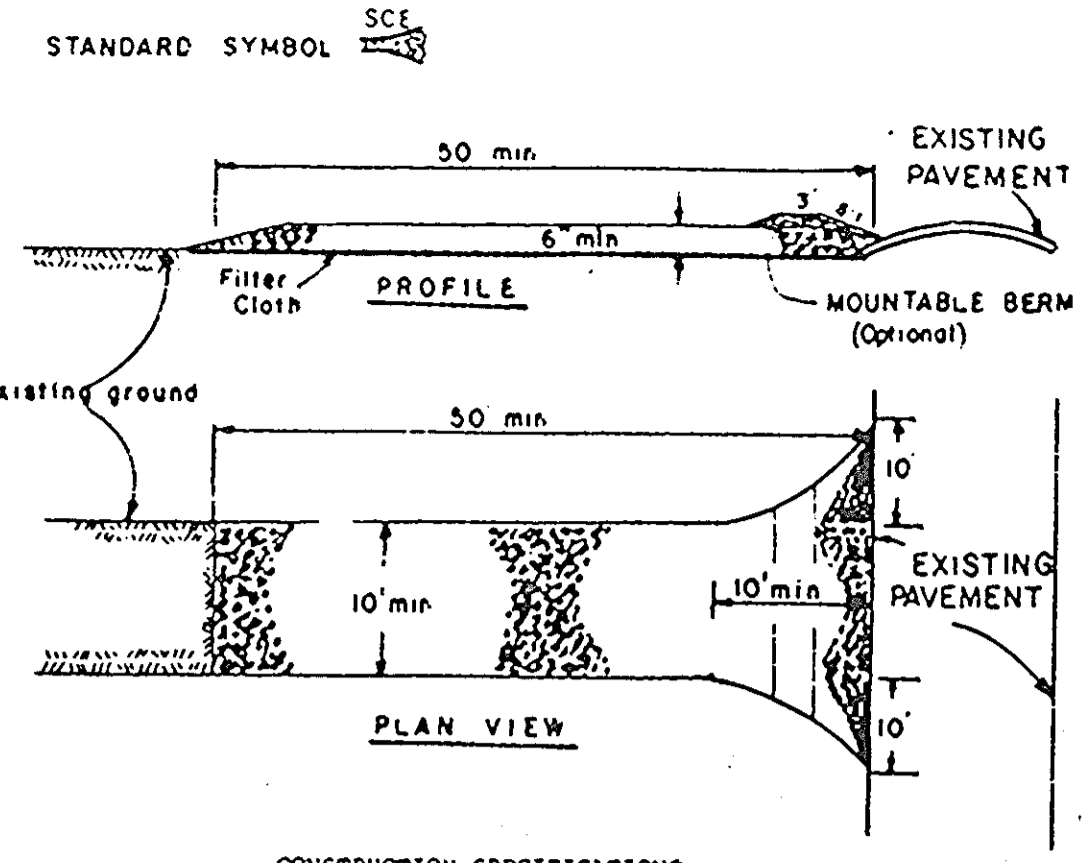
gillelono & ASSOCIATES
509 Third Avenue South, P.O. Box 24116
Nashville, Tennessee 37202 · 615/255-2601

PREPARED BY
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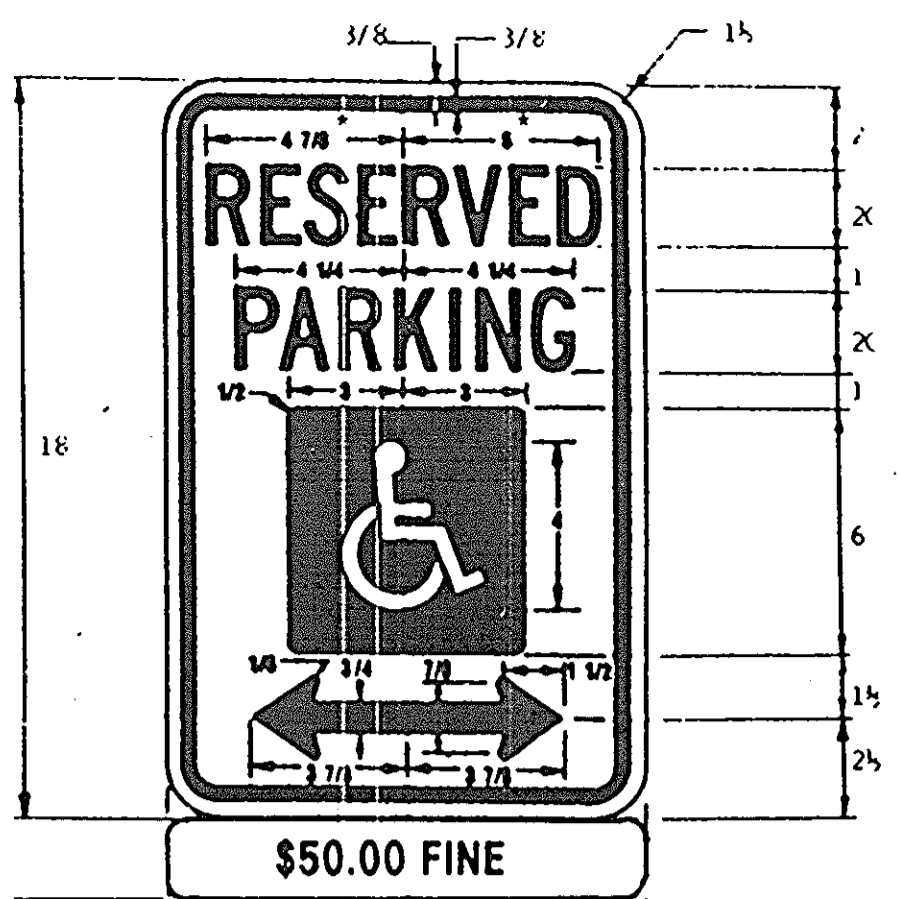
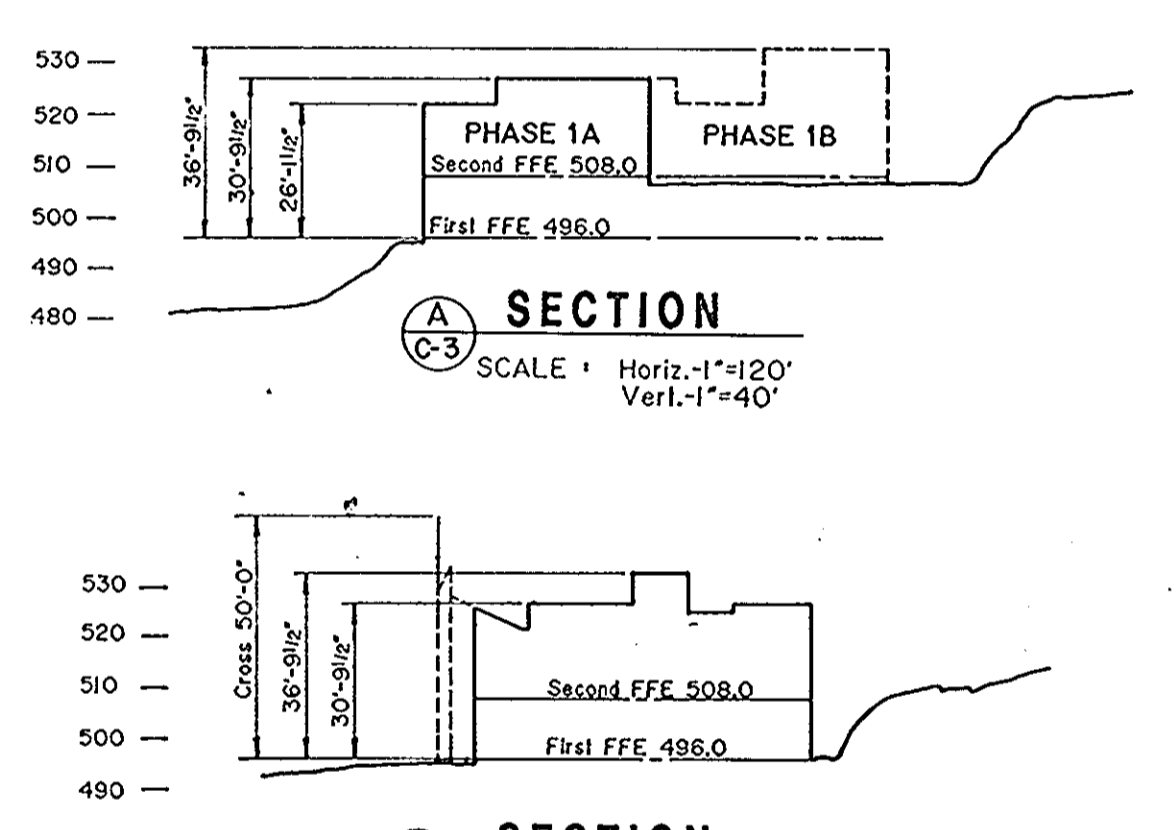
STORM WATER MANAGEMENT POND SPECIFICATIONS
C-4-1 OF 8518
DATE BY
SEPT 12, 1988
JAN 9, 1989
MAR 8, 1989
SHEET
C-2 OF

SDP-88-37

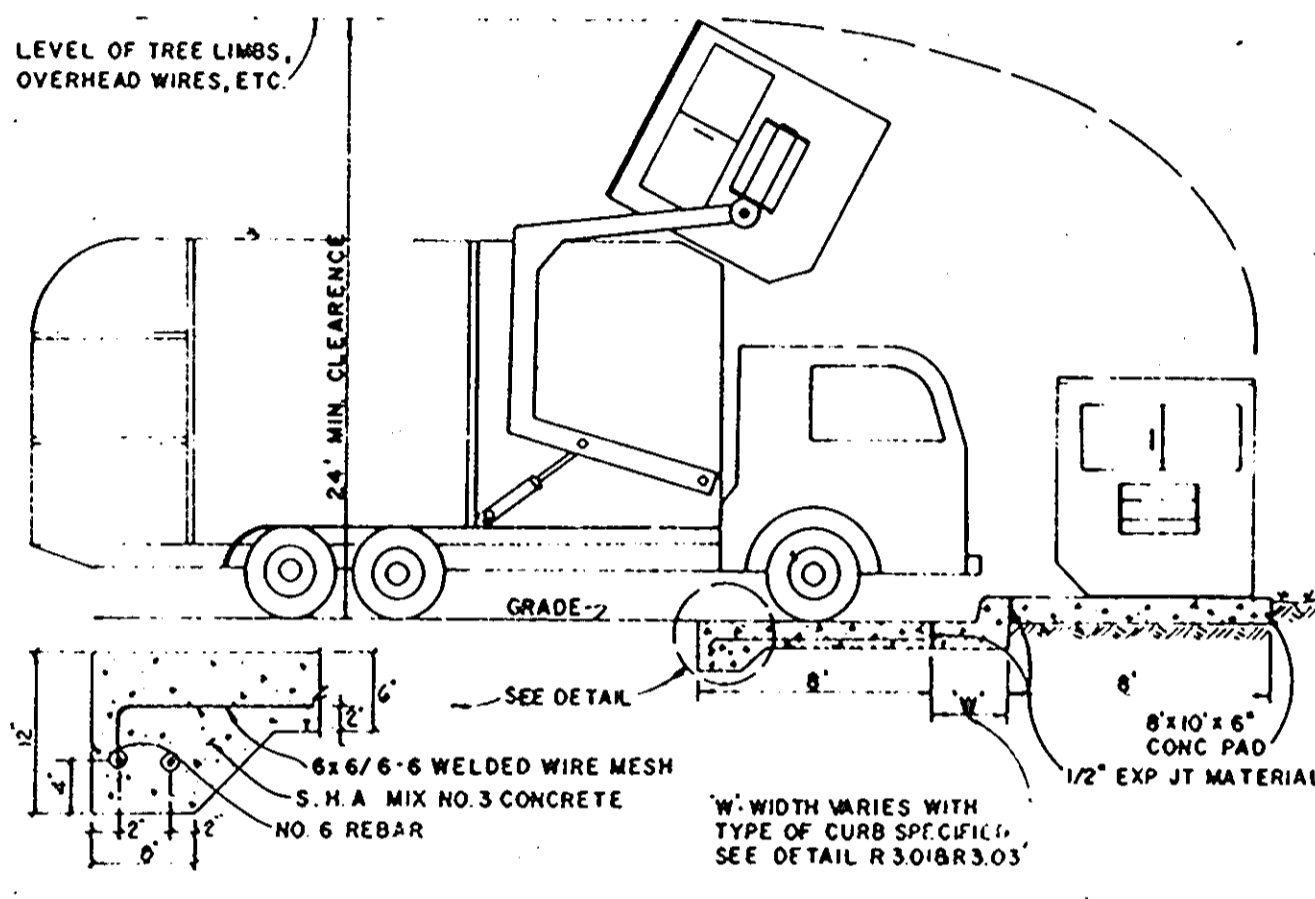


- CONSTRUCTION SPECIFICATIONS**
- Stone Size - One (1) stone, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10)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

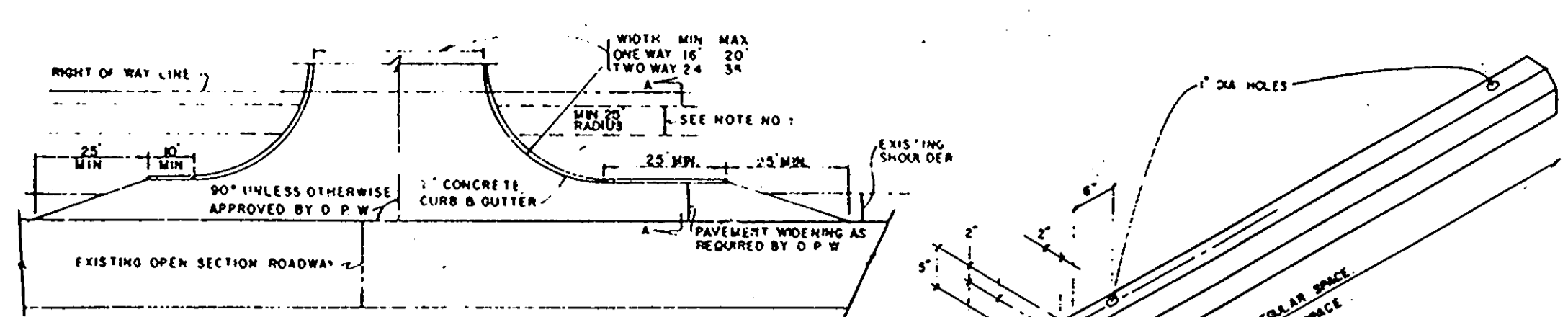
STABILIZED CONSTRUCTION ENTRANCE



HANDICAPPED PARKING SIGN

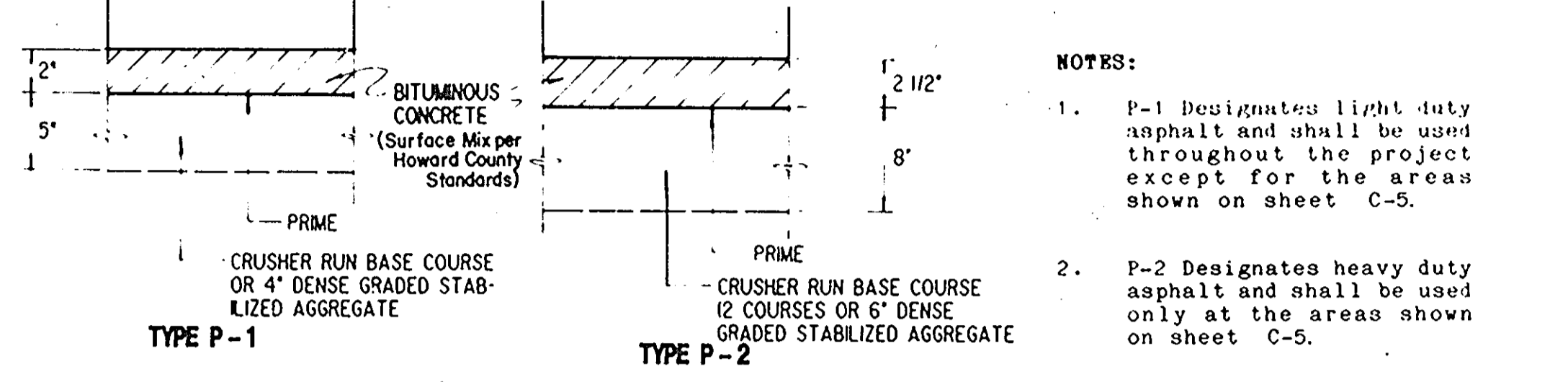


SOLID WASTE SERVICE PAD

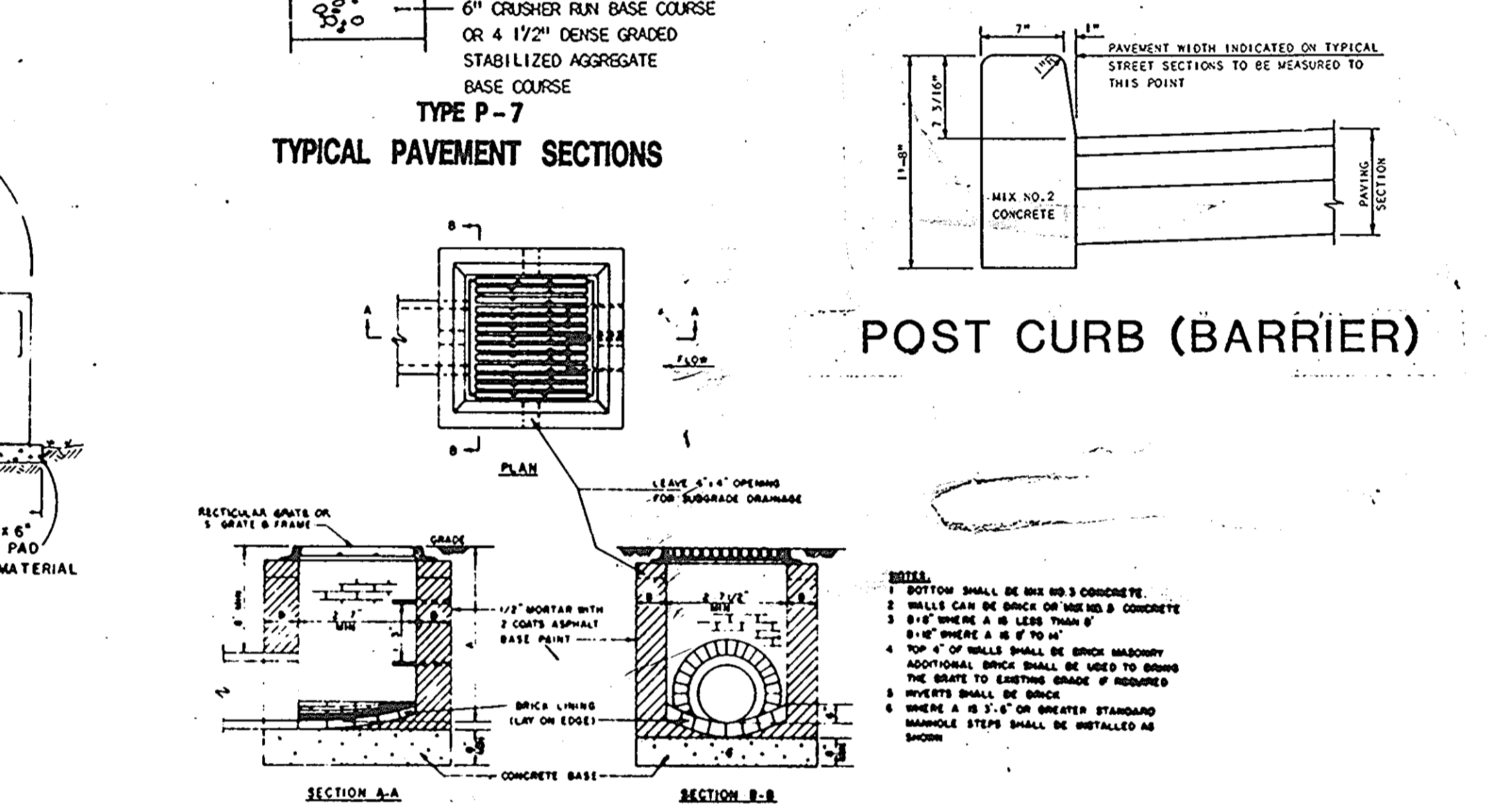


SITE ENTRANCE DETAIL

PRECAST PARKING CURB

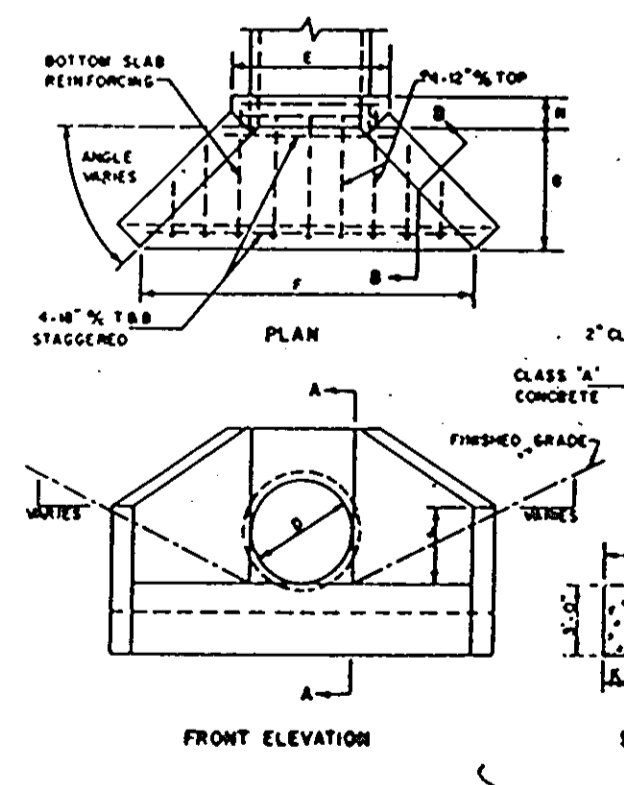


TYPICAL PAVEMENT SECTIONS

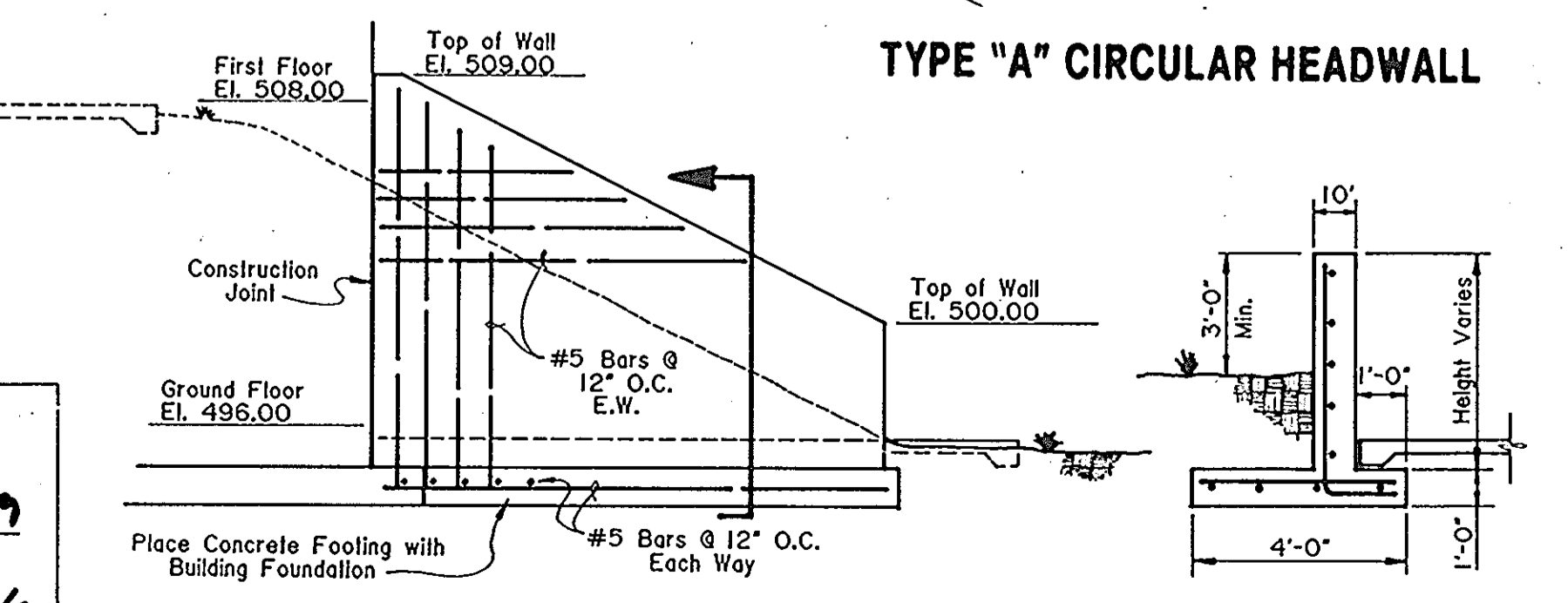


TYPE "S" INLET

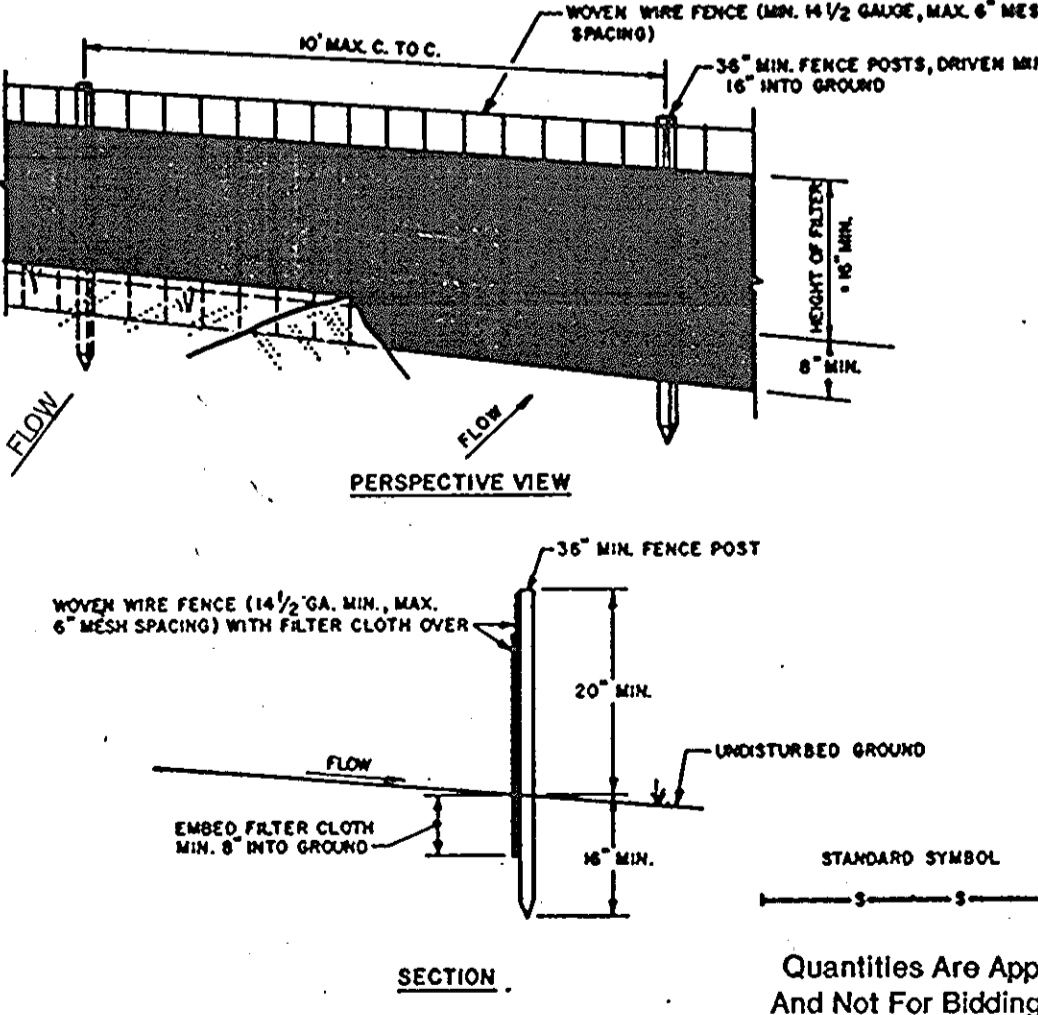
D	C	F	J	K	L	M	N	Area, Sq. Ft.
12"	12"	12"	12"	12"	12"	12"	12"	1.70
18"	18"	18"	18"	18"	18"	18"	18"	3.24
24"	24"	24"	24"	24"	24"	24"	24"	5.76
30"	30"	30"	30"	30"	30"	30"	30"	8.10
36"	36"	36"	36"	36"	36"	36"	36"	10.80
42"	42"	42"	42"	42"	42"	42"	42"	13.23
48"	48"	48"	48"	48"	48"	48"	48"	15.84
54"	54"	54"	54"	54"	54"	54"	54"	18.50
60"	60"	60"	60"	60"	60"	60"	60"	21.21
66"	66"	66"	66"	66"	66"	66"	66"	23.98
72"	72"	72"	72"	72"	72"	72"	72"	26.81



TYPE "A" CIRCULAR HEADWALL



SECTION - RETAINING WALL



FABRICATED SILT FENCE DETAIL

- NOTES:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- POSTS:** STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE:** WOVEN WIRE, 1/2 GA. 6" MAX. VESH OPENING
- FILTER CLOTH:** FILTER X, MIRAFL 100, STABIL-LINA 110N OR APPROVED EQUAL.
- PREFABRICATED UNIT:** GEOPAB, ENVIROFENCE, OR APPROVED EQUAL.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules.
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft.)
 - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil.
- SEEDING -** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- MULCHING -** Apply 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 (9 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 short-term vegetative cover is needed.
- SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENTS:** Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft.)
- SEEDING:** For periods March 1 thru April 30 and from August 1 thru November 15, seed with 2 1/2 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 (9 gal/1000 sq ft.) for anchoring.
- Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rule and methods not covered.

SEDIMENT CONTROL NOTES

- 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)
- 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.
- 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.
- 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.
- 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.
- 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.
- Site Analysis:

Total Area of Site	62 Acres
Area to be roofed or paved	12.3 Acres
Area to be vegetatively stabilized	4.3 Acres
Total Cut	33,000 Cu. yds
Total Fill	30,000 Cu. yds
Offsite waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 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.

APPROVED: For Storm Drainage Systems and Public Roads
Howard County Department of Public Works.

James G. ... 7/26/89
Director Date

William B. ... 5-23-89
Chief Bureau of Engineering Date

APPROVED: For Private Water and Private Septic Sewerage Systems. Howard County Health Department.

John ... 4-28-89
County Health Officer 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.

James ... 4/12/89
U.S. Soil Conservation Service Date

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 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.

James ... 4/26/89
Signature of Developer Date

APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND

... 3-31-89
DATE

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.

Ray W. ... 3/4/89
Signature of Engineer Date

APPROVED: Howard County Office of Planning and Zoning.

... 8.10.89
Planning Director Date

... 7/27/89
Chief, Division of Community Planning and Land Development Date

These Plans for Small Pond Construction, Soil Erosion and Sediment Control Meet The Requirements of the Howard Soil Conservation District.

Robert ... 8/12/89
Howard Soil Conservation District Date

gilelano
A S S O C I A T E S

505 Third Avenue South - P.O. Box 24116
Nashville, Tennessee 37202-615/255-2601

PREPARED BY
THOMAS & MILLER
750 OLD HICKORY BLVD.
TWO BRENTWOOD COMMONS SUITE 222
BRENTWOOD, TN 37027
(615) 377-9773

MISCELLANEOUS DETAILS
OWNER: CHAPELGATE PRESBYTERIAN CHURCH
5815 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 21043

CHAPELGATE PRESBYTERIAN CHURCH - Ellicott City, Maryland



C-4-1-18518

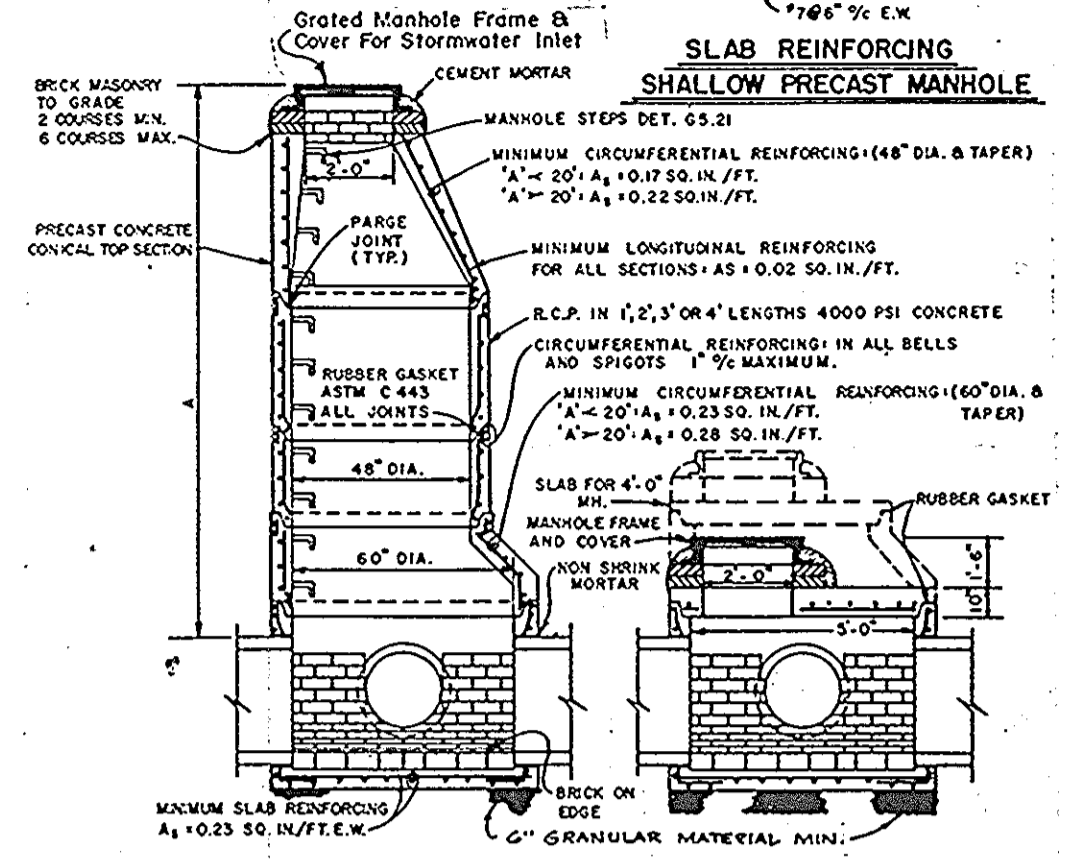
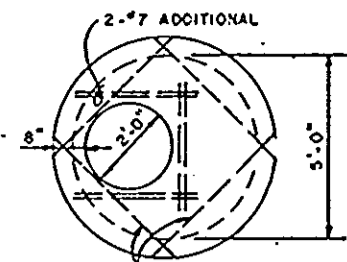
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SEPT. 12, 1988
JAN. 9, 1990

SHEET: C-3 OF 9

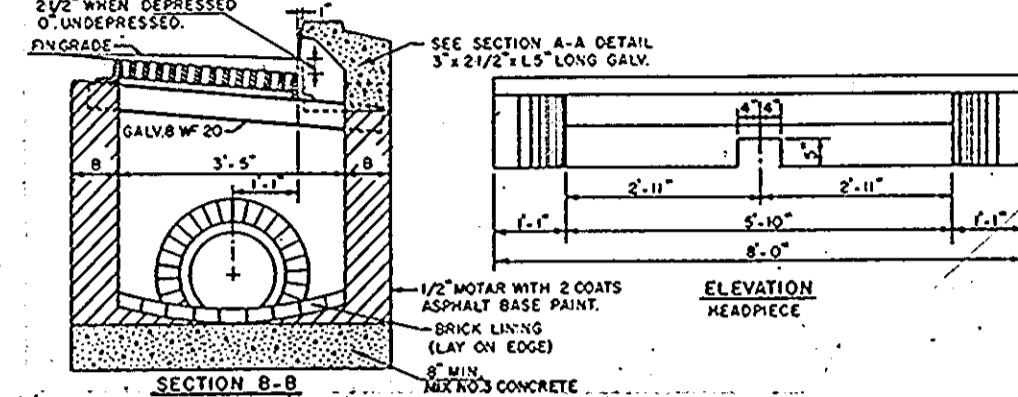
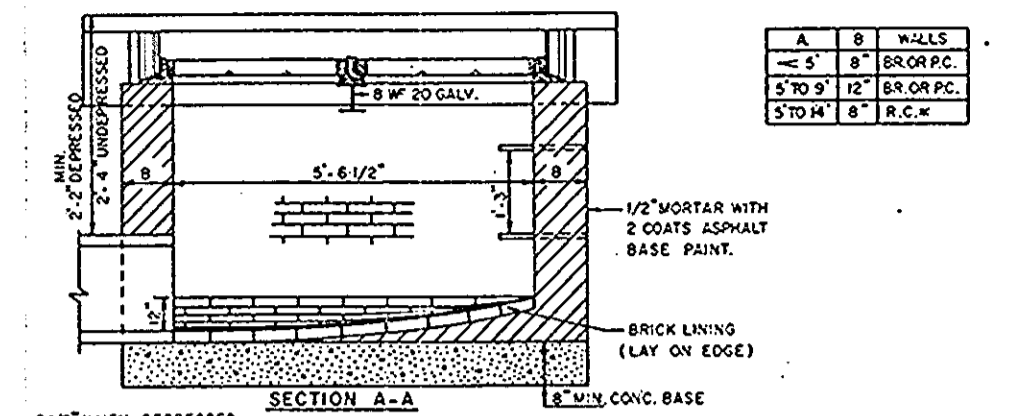
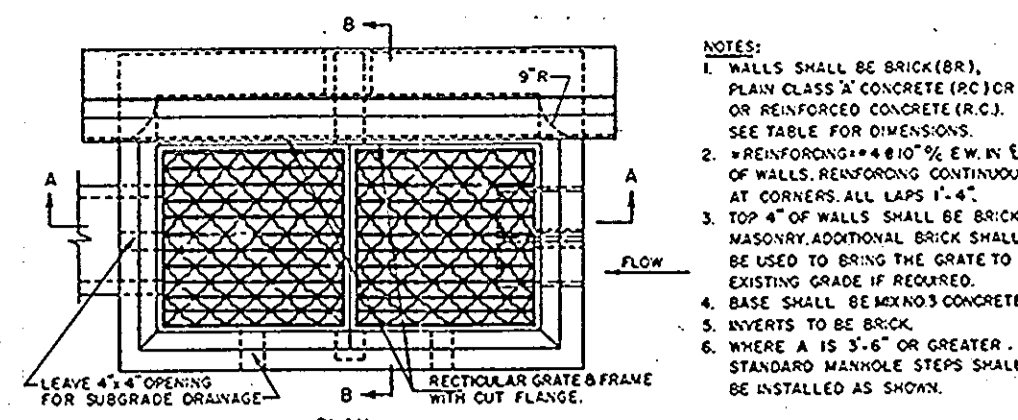
SDP-88-37

NOTES

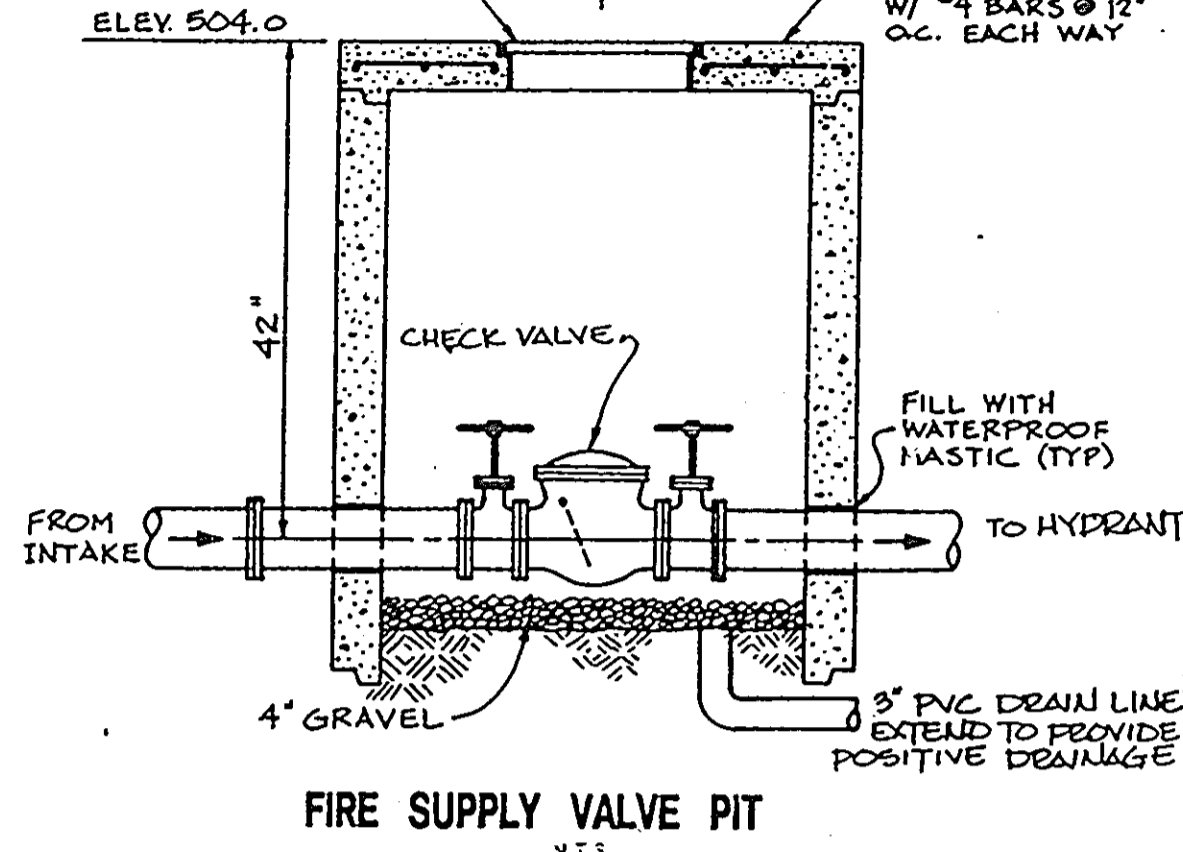
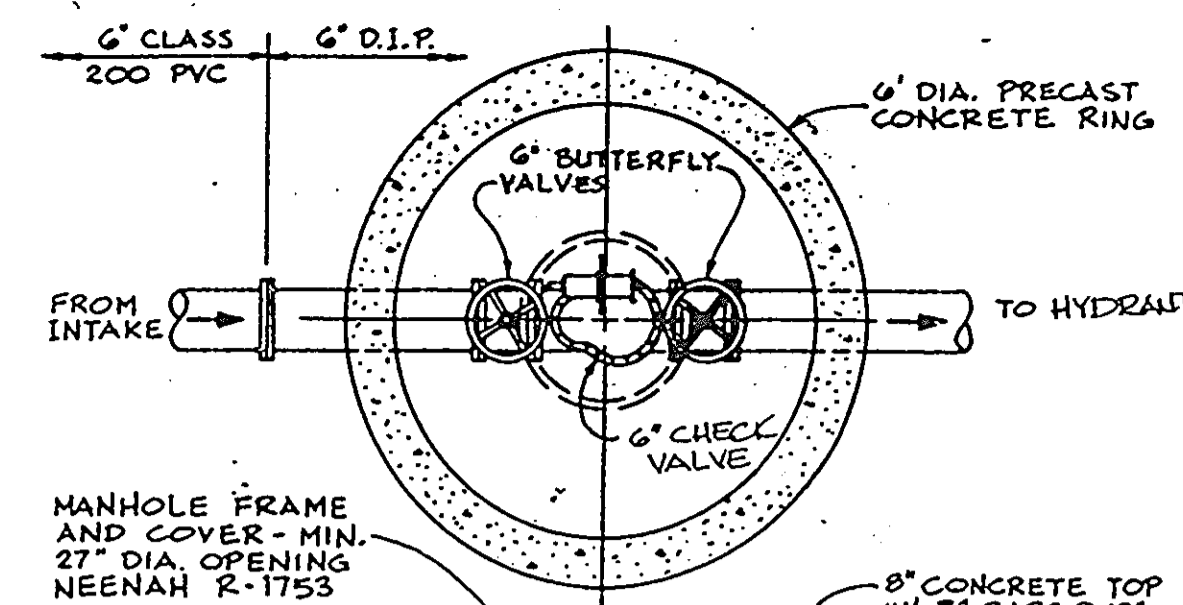
- SEE GENERAL NOTES APPLICABLE TO ALL PRECAST MANHOLES ON DETAIL 62.11.
- FOR PIPE SIZES 42" AND LARGER USE DETAIL 63.03.
- WHERE "A" IS LESS THAN 4.5' USE SHALLOW MANHOLE.



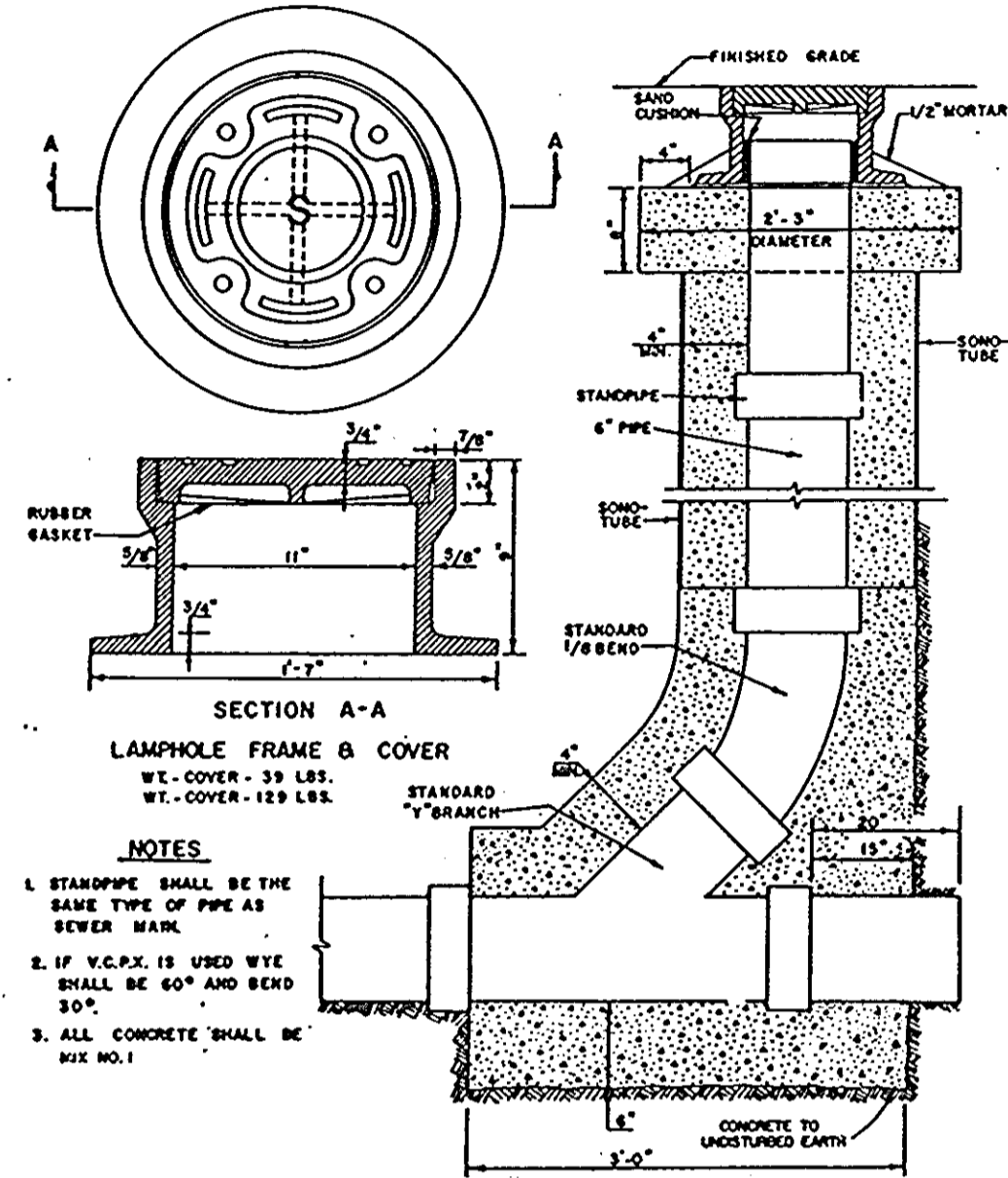
STANDARD PRECAST MANHOLE



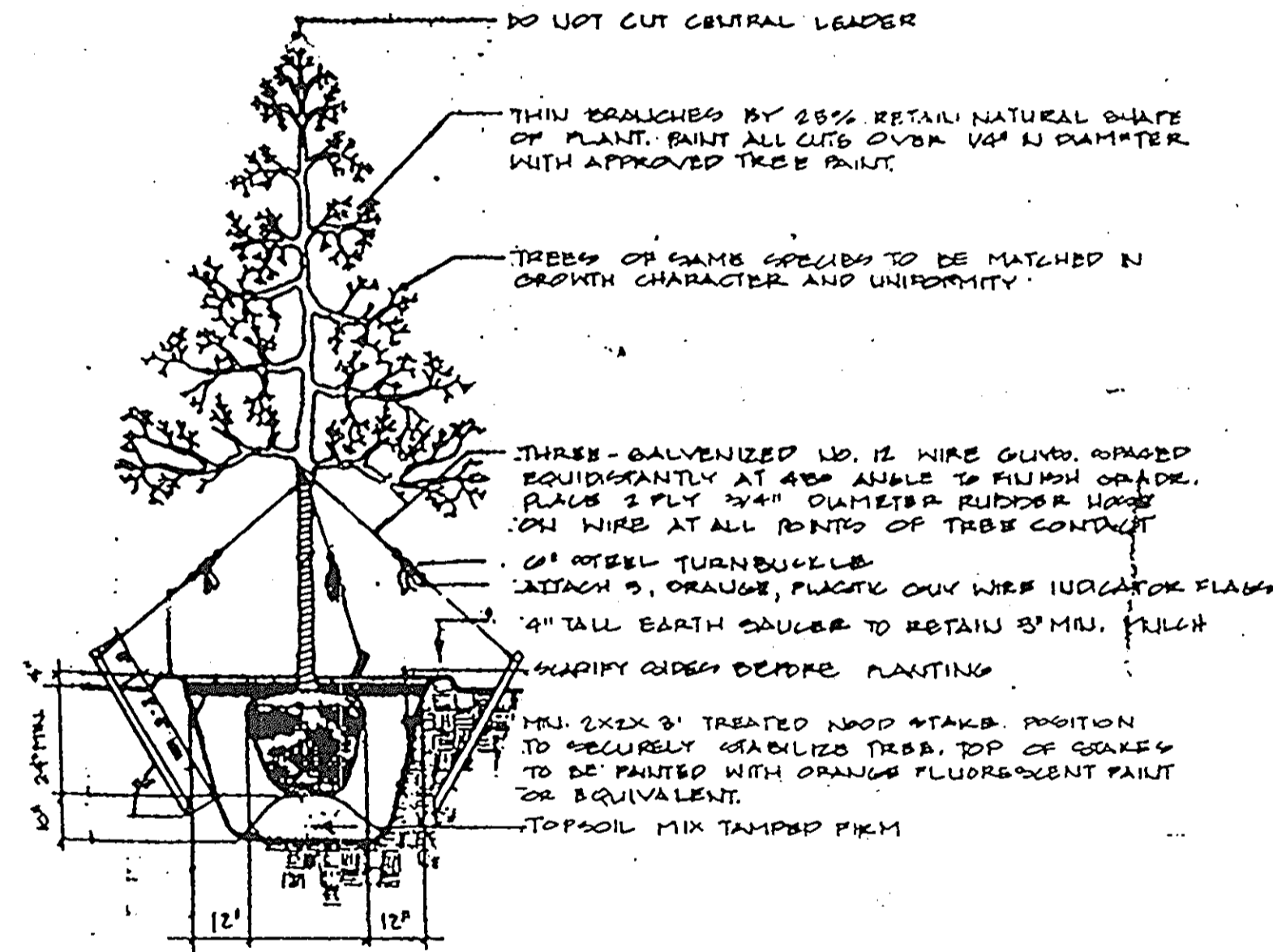
DOUBLE TYPE "S" COMB. INLET



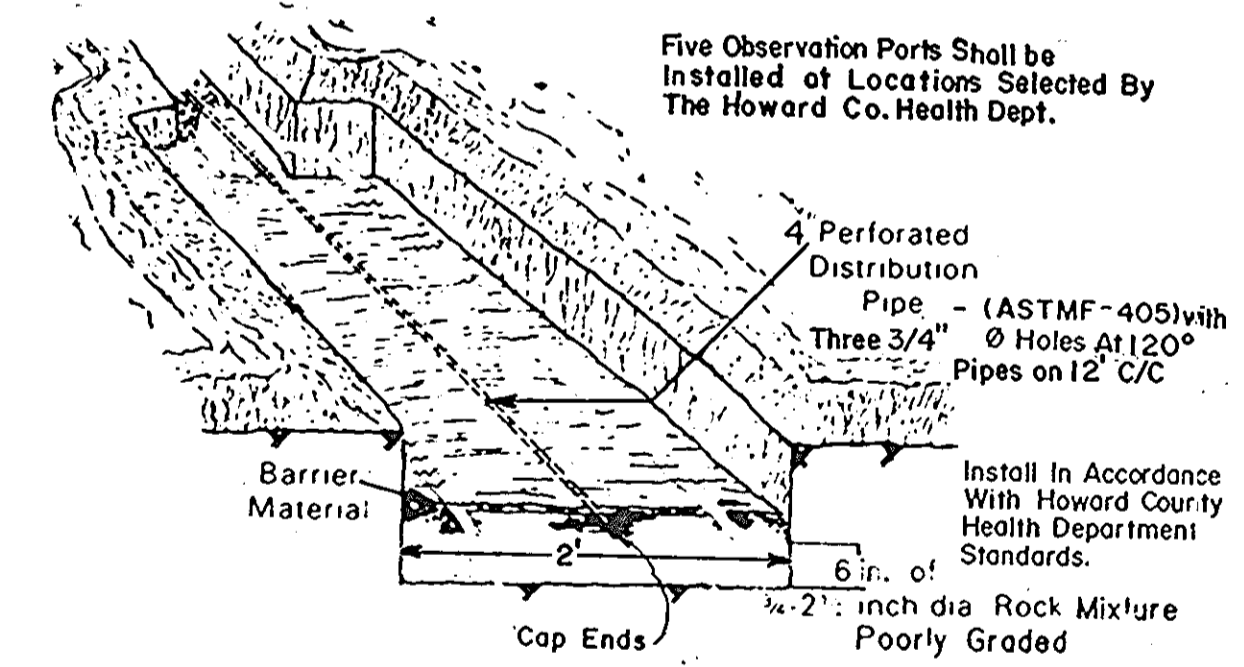
FIRE SUPPLY VALVE PIT



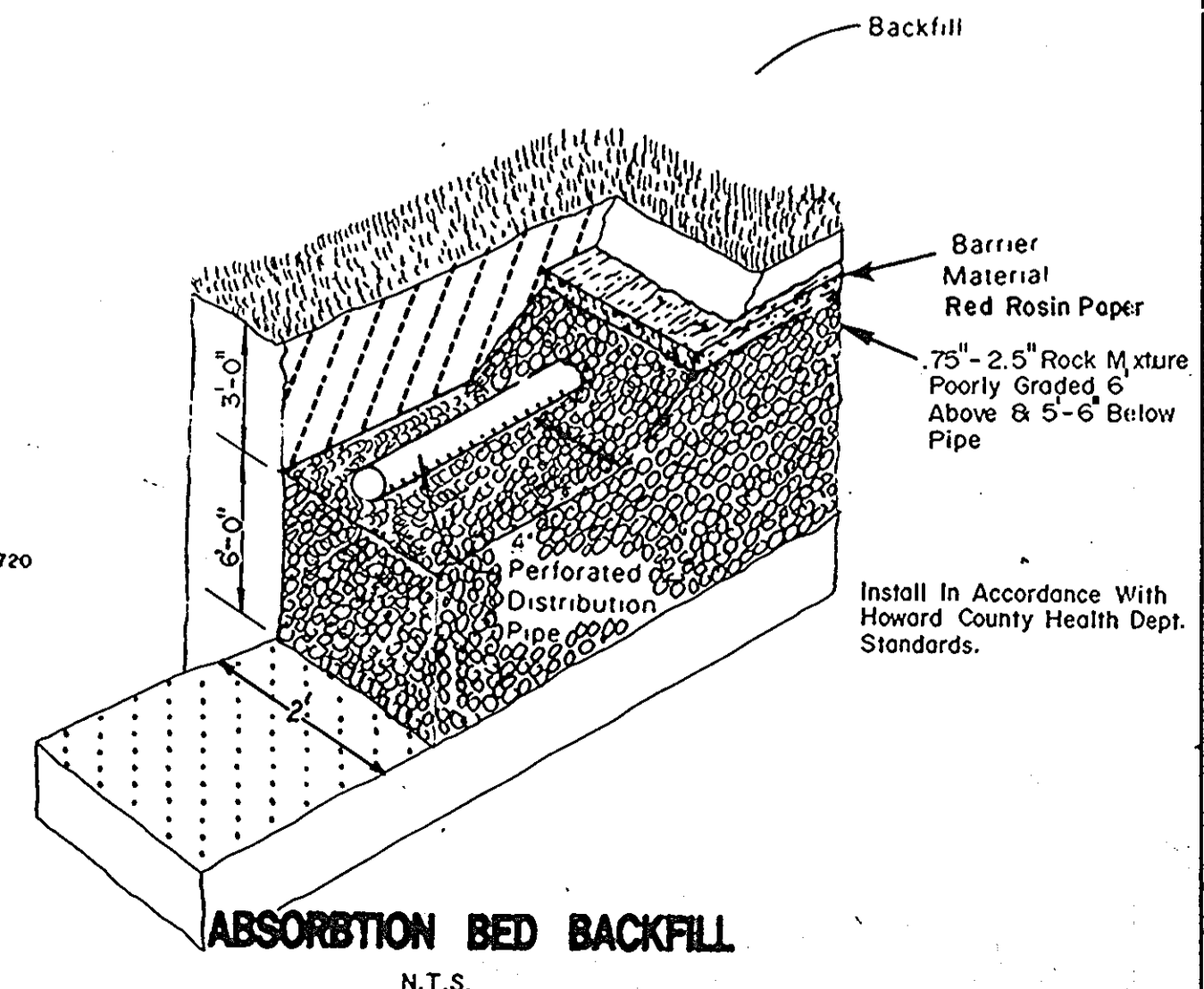
MAIN LINE CLEANOUT LAMPHOLE - SANITARY SEWER



TREE PLANTING DETAIL



ABSORPTION BED SYSTEM



ABSORPTION BED BACKFILL

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT

HOWARD COUNTY,
MARYLAND

DATE 3-31-89

APPROVED: Howard County Office of Planning and
Land Development

[Signature] 2-10-89
Planning Director Date

[Signature] 2/21/89
Chief, Division of Community Planning and
Land Development Date

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 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] 4/12/89
Signature of Developer Date

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] 3/19/89
Signature of Engineer Date

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

[Signature] 4/12/89
Howard Soil Conservation District 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] 4/12/89
U.S. Soil Conservation Service Date

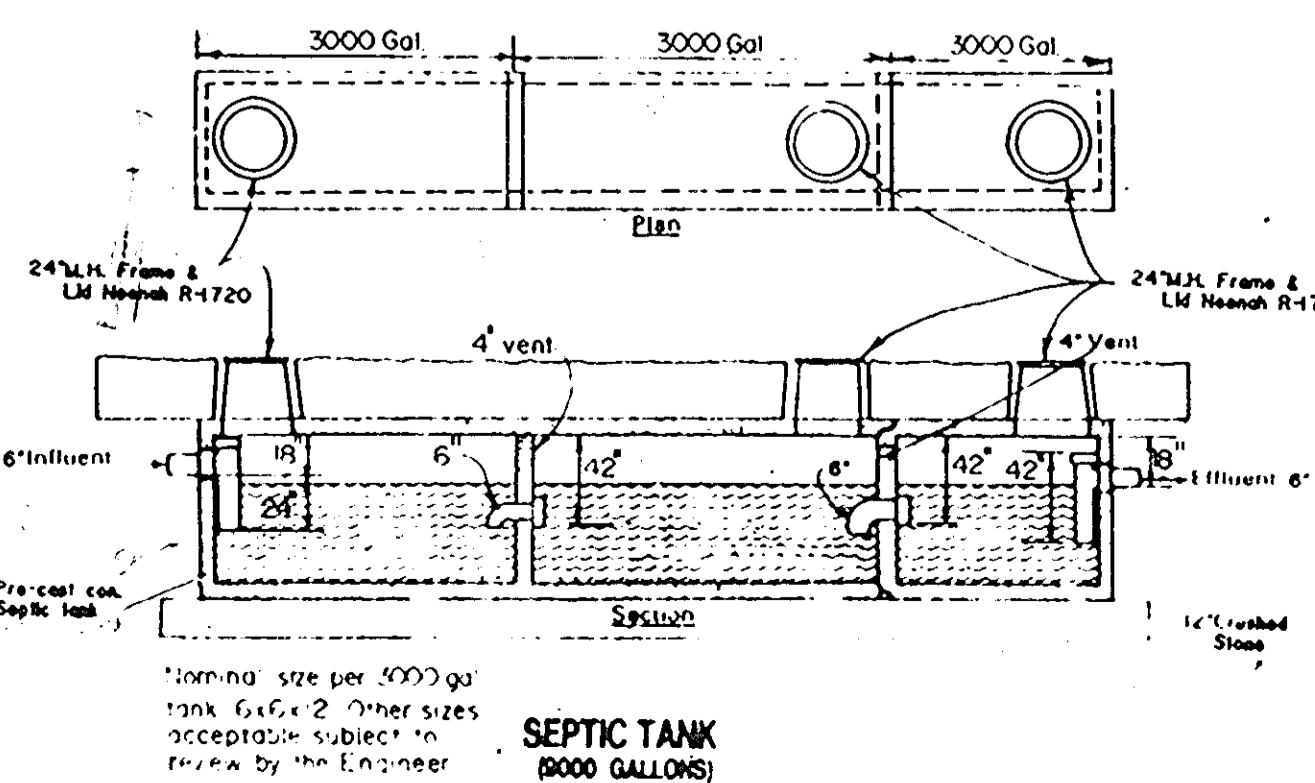
APPROVED: For Private Water and Private Septic Sewerage Systems, Howard County Health Department.

[Signature] 4-20-89
County Health Officer Date

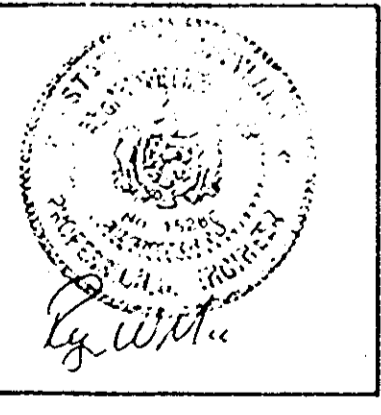
APPROVED: For Storm Drainage Systems and Public Works, Howard County Department of Public Works.

[Signature] 7/20/89
Director Date

[Signature] 5-23-89
Chief Bureau of Engineering Date



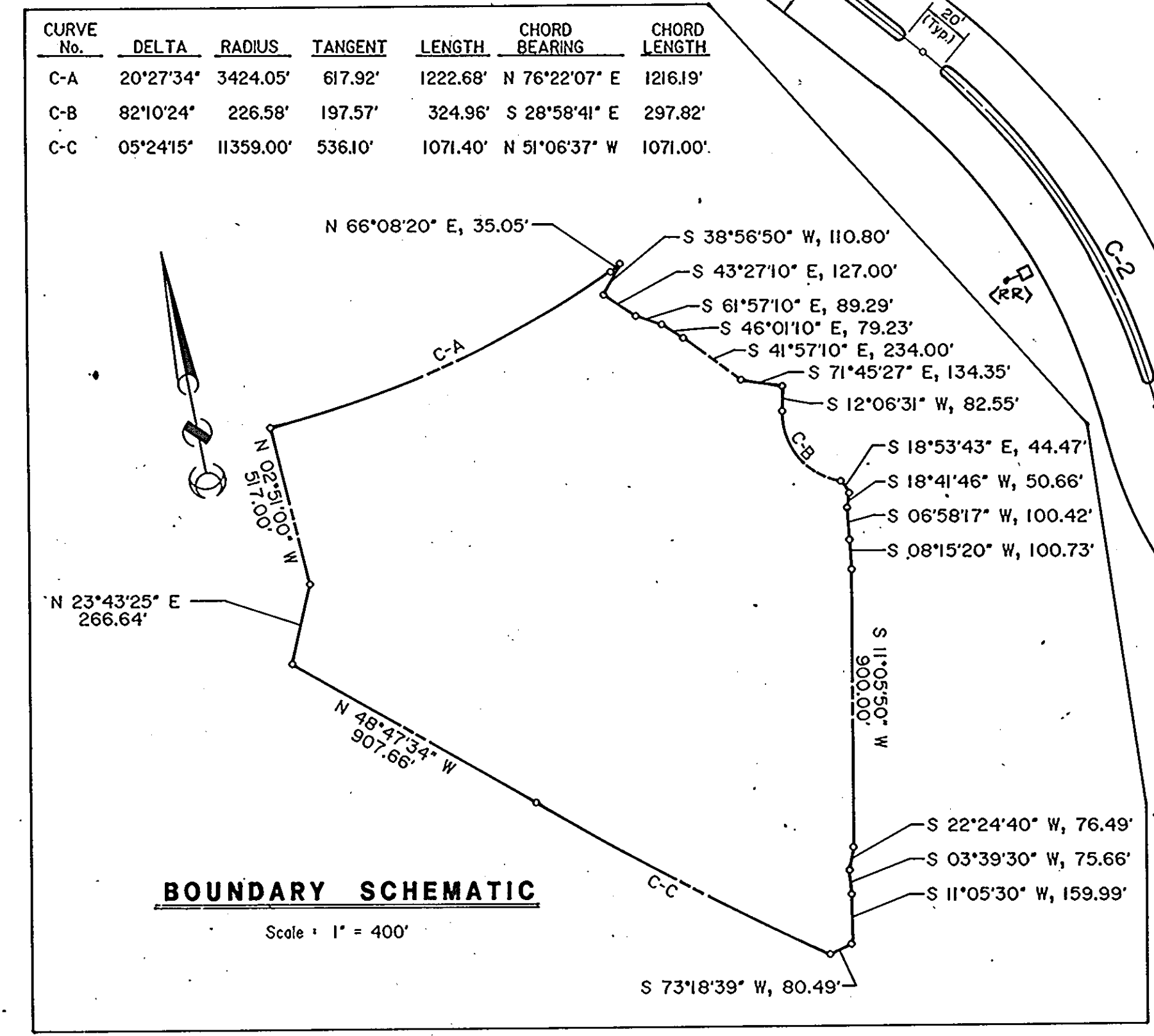
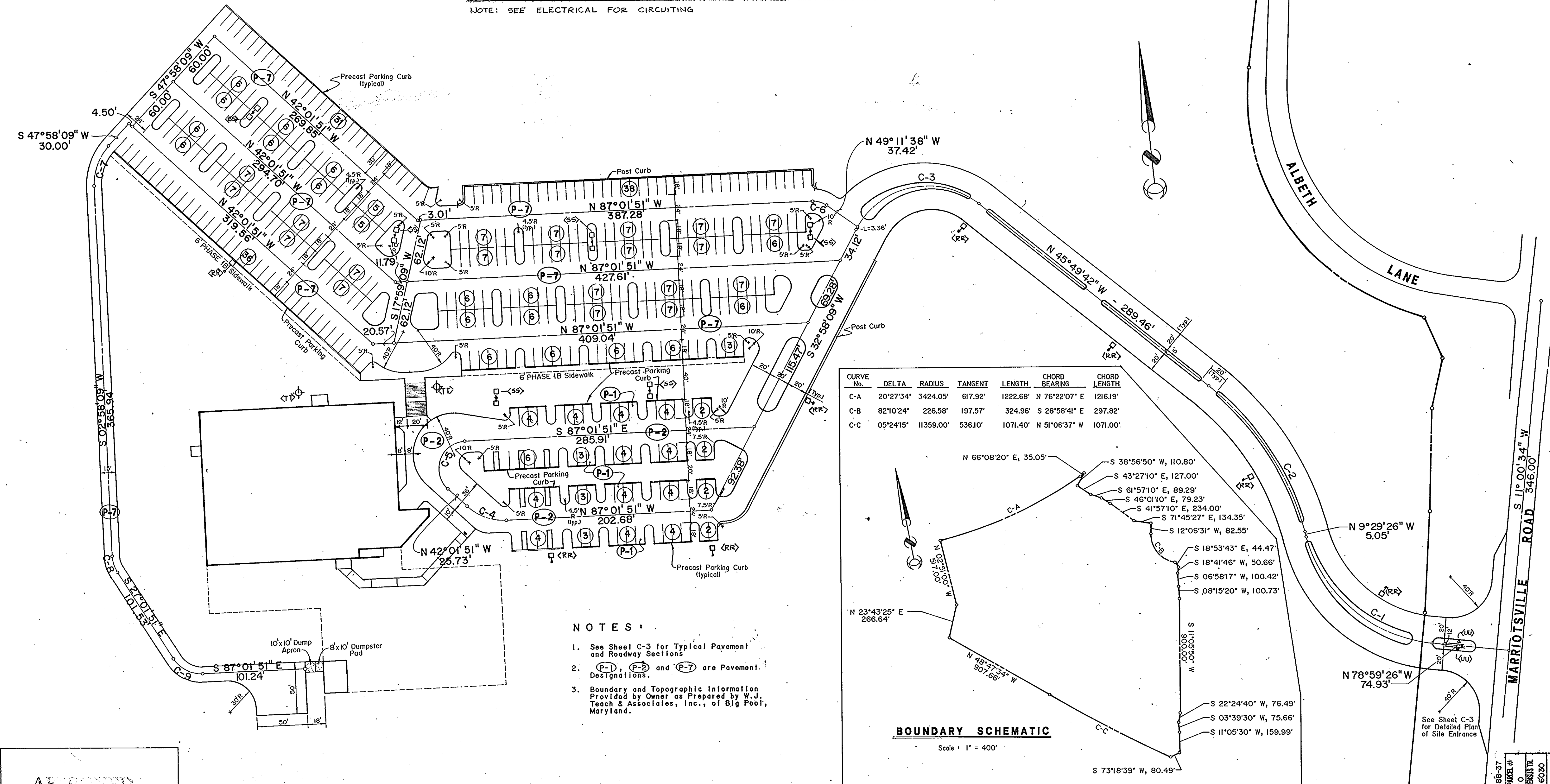
SEPTIC TANK



C 4 1	8518
DATE	BY
MAY 11, 1988	
SEPT. 12, 1988	
JAN. 9, 1989	
MAR. 8, 1989	
SHEET	9

SITE LIGHTING SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS	TYPE	REMARKS
RR	KIM	1A/EKG-119-HBAI/PTSS-35A/ BZ PAINT	480	1	480HPS	POLE SEE BASE DETAIL
SS	KIM	2B/EKG-119-HBAI/PTSS-35A/ BZ PAINT	480	2	480HPS	POLE SEE BASE DETAIL
TT	KIM	SBC 501/150 HPS 277 DBE/ FDI2-4125/DBE	277	1	150HPS	POLE SEE BASE DETAIL
UU	KIM	AFLI-70HPS	277	1	7HPS	12X12X12 BASE STANTION BASE AT GRADE

NOTE: SEE ELECTRICAL FOR CIRCUITING



- NOTES:**
- See Sheet C-3 for Typical Pavement and Roadway Sections.
 - (P-1), (P-2) and (P-7) are Pavement Designations.
 - Boundary and Topographic Information Provided by Owner as Prepared by W.J. Teach & Associates, Inc., of Big Pool, Maryland.

BOUNDARY SCHEMATIC
Scale: 1" = 400'

CURVE DATA

CURVE No.	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH
C-1	69° 30' 00"	142.77'	99.05'	173.19'	N 44° 14' 26" W	162.76'
C-2	36° 20' 16"	276.50'	90.74'	175.36'	N 27° 39' 34" W	172.44'
C-3	101° 12' 10"	80.00'	97.40'	141.33'	S 83° 34' 13" W	123.64'
C-4	45° 00' 00"	53.66'	22.23'	42.15'	N 64° 31' 51" W	41.07'
C-5	135° 00' 00"	27.00'	65.18'	63.62'	N 25° 28' 09" E	49.89'
C-6	37° 50' 13"	22.00'	7.54'	14.53'	N 68° 06' 45" W	14.27'
C-7	45° 00' 00"	55.00'	22.78'	43.20'	S 25° 28' 09" W	42.10'
C-8	30° 00' 00"	32.50'	8.71'	17.02'	S 12° 01' 51" E	16.82'
C-9	60° 00' 00"	32.50'	18.76'	34.03'	S 57° 01' 51" E	32.50'

ADDRESS CHART

Street Address: 2600 Marriottville Road

Parcel Number: 110

Subdivision Name: Chapelgate Presbyterian Church

Section: 10, Area: 110

Block: 3, Lot: 10

Map: 15, Code: 6030

Well: SEPTIC

Scale: 1" = 50'

APPROVED: Howard County Office of Planning and Community Development & Land Development

DATE: 3-31-89

Signature: [Signature]

Signature of Engineer: [Signature], Date: 3/4/89

Signature of Developer: [Signature], Date: 4/12/89

Signature of County Health Officer: [Signature], Date: 4-20-89

Signature of Chief Bureau of Engineering: [Signature], Date: 5-23-89

CHAPELGATE PRESBYTERIAN CHURCH

919 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 20645

STATE OF MARYLAND
DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES

FILE NO: 8518

DATE: MAY 11, 1988

BY: [Signature]

SEPT. 12, 1988

JAN. 9, 1989

SHEET: C-5 OF 9

SDP-88-37

gillelano & ASSOCIATES

509 Third Avenue South - P.O. Box 24116
Nashville, Tennessee 37202 - 615/255-2601

PREPARED BY:
THOMAS & MILLER
750 OLD HICKORY BLVD.
TWO BRENTWOOD COMMONS SUITE 222
BRENTWOOD, TN 37027
(615) 377-9775

ELICOTT CITY, MARYLAND

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.

Ryan W. Man 3/9/89
Signature of Engineer Date

APPROVED: Howard County Office of Planning and Development

[Signature] 1.089
Planning Director Date

David J. D. Knight 7/27/89
Chief, Division of Community Planning and Land Development Date

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

[Signature] 4/12/89
Howard Soil Conservation District 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] 4/12/89
USDA Soil Conservation Service Date

APPROVED: For Private Water and Private Septic Sewerage Systems, Howard County Health Department.

[Signature] 4.25.89
County Health Officer Date

APPROVED: DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT, HOWARD COUNTY, MARYLAND

DATE: 3-31-89

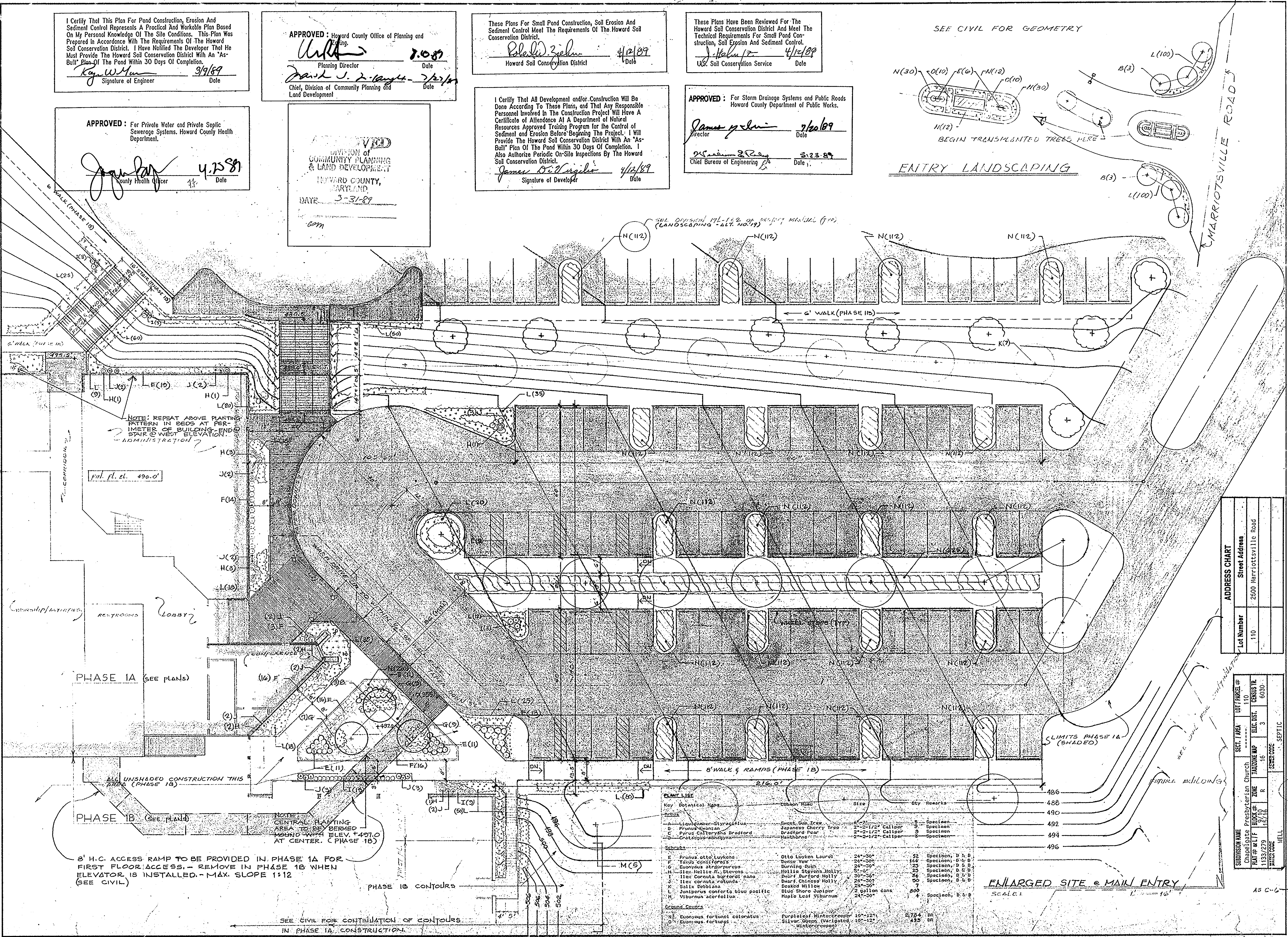
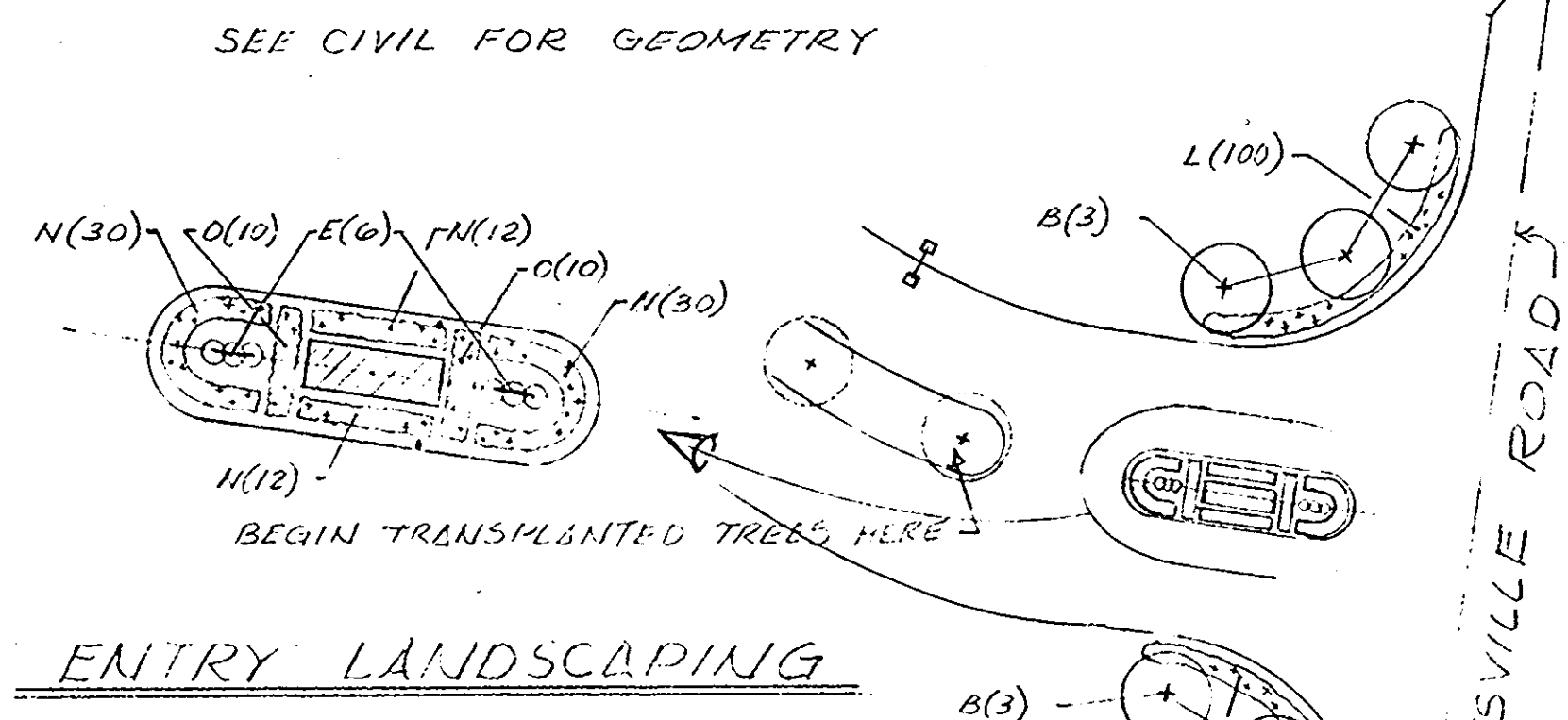
I Certify That All Development and/or Construction Will Be Done According To These Plans, and That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate of Attendance At A Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion 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.

James P. DeSantis 4/12/89
Signature of Developer Date

APPROVED: For Storm Drainage Systems and Public Works, Howard County Department of Public Works.

James P. DeSantis 7/20/89
Director Date

[Signature] 5.23.89
Chief Bureau of Engineering Date



NOTE: REPEAT ABOVE PLANTING PATTERN IN BEDS AT PERIMETER OF BUILDING AND STAIR @ WEST ELEVATION OF ADMINISTRATION

fin. fl. el. 496.0'

PHASE 1A (SEE PLANS)

8' H.C. ACCESS RAMP TO BE PROVIDED IN PHASE 1A FOR FIRST FLOOR ACCESS. - REMOVE IN PHASE 1B WHEN ELEVATOR IS INSTALLED. - MAX. SLOPE 1:12 (SEE CIVIL)

NOTE: CENTRAL PLANTING AREA TO BE BERMED MONING HIGHER ELEV. 497.0 AT CENTER. (PHASE 1B)

SEE CIVIL FOR CONTINUATION OF CONTOURS IN PHASE 1A. CONSTRUCTION

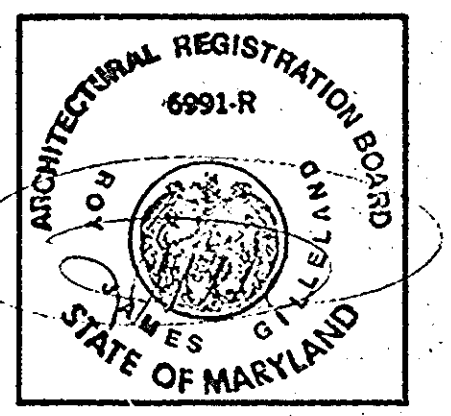
PLANT LIST	Key Botanical Name	Common Name	Size	Qty	Remarks
A	Liquidambar styraciflua	Sweet Gum Tree	6'-7'	5	Specimen
B	Prunus nanzan	Japanese Cherry Tree	2'-2 1/2" Caliper	9	Specimen
C	Pyrus calleryana Bradford	Bradford Pear	2'-2 1/2" Caliper	9	Specimen
D	Catalpa bignonioides	Manihot	2'-2 1/2" Caliper	8	Specimen
E	Prunus alba Luykeni	Otto Luyken Laurel	24"-30"	52	Specimen, D & B
F	Taxus canadensis	Dense Yew	24"-30"	166	Specimen, D & B
G	Euonymus alatus	Burning Bush	24"-30"	25	Specimen, D & B
H	Ilex hollie R. Stevens	Hollie Stevens Holly	24"-30"	24	Specimen, D & B
I	Ilex cornuta burfordii nana	Dwarf Burford Holly	30"-36"	24	Specimen, D & B
J	Ilex cornuta rotunda	Dwarf Chinese Holly	24"-30"	50	Specimen, D & B
K	Salix babingtonii	Beaked Willow	24"-30"	7	Specimen
L	Juniperus conferta blue pacific	Blue Shore Juniper	2 gallon cans	500	Specimen, D & B
M	Viburnum acerifolium	Hoplo Leaf Viburnum	24"-30"	4	Specimen, D & B
Ground Covers					
N	Euonymus fortunei coloratus	Purpleleaf Wintercreeper	10"-12"	2,784	BR
O	Euonymus fortunei	Silver Queen (variegated) Wintercreeper	10"-12"	412	BR

ENLARGED SITE @ MAIN ENTRY

ADDRESS CHART

Lot Number	Street Address
110	2600 Harriottsville Road

SUBDIVISION NAME	SECT. / AREA	LOT / PARCEL #
Chapelgate Presbyterian Church		110
PLAN #	BLOCK #	ZONE
1133/279	R	16
DATE	ELEC. DIST.	SEWER CODE
12/1/80	3	SEPTIC



C-4-118 8518

DATE: AUG 14, 1987 BY: FM/JP

DEC. 23, 1987

MAY 11, 1988

NOV 12, 1988

SEP 9, 1989

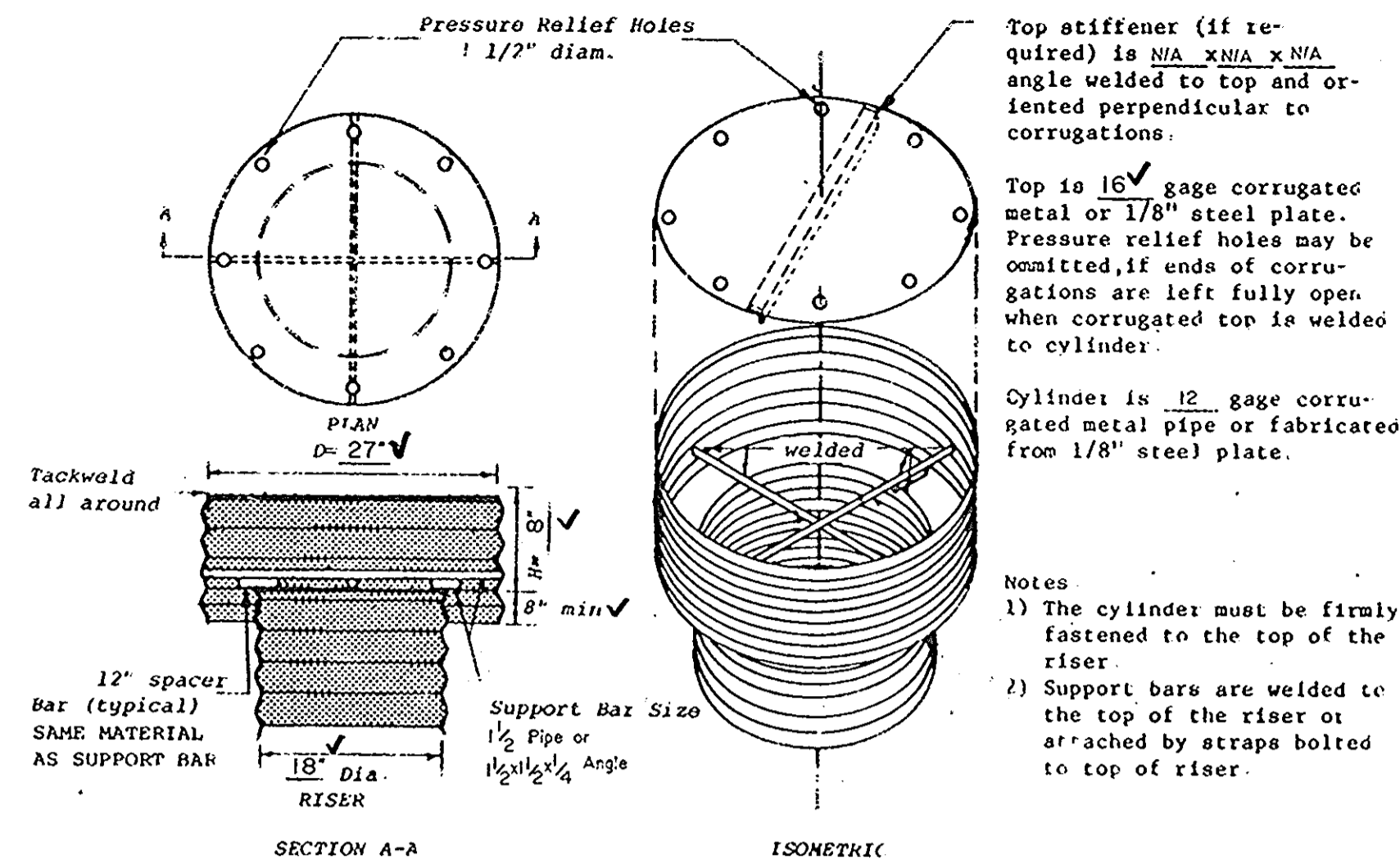
C-6 OF 9

gilleland & ASSOCIATES

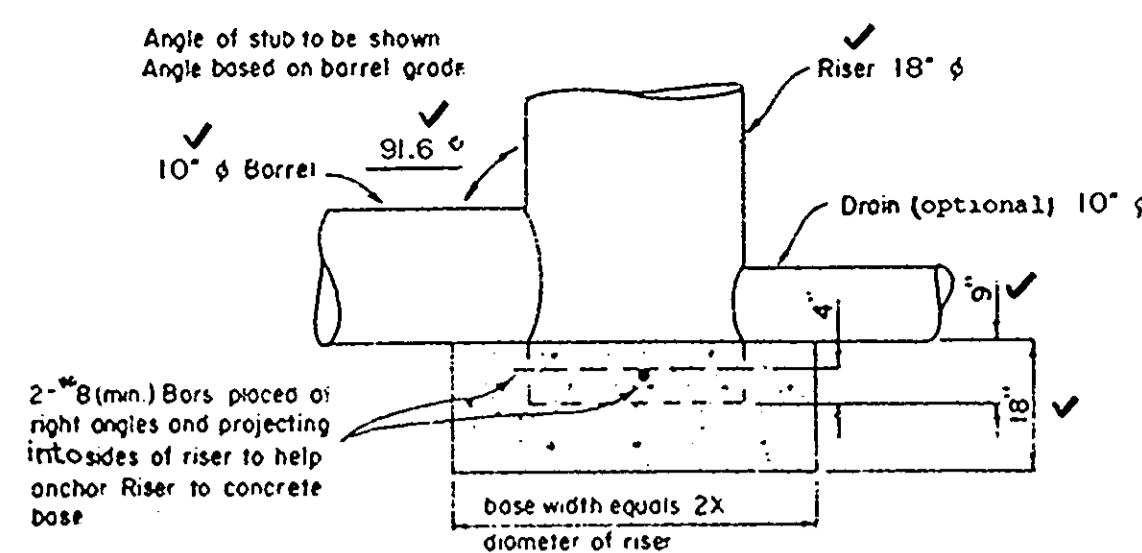
509 Third Avenue South - P.O. Box 24116
Nashville, Tennessee 37202 - 615/255-2601

ENLARGED SITE ENTRY & LANDSCAPE

CHAPELGATE PRESBYTERIAN CHURCH

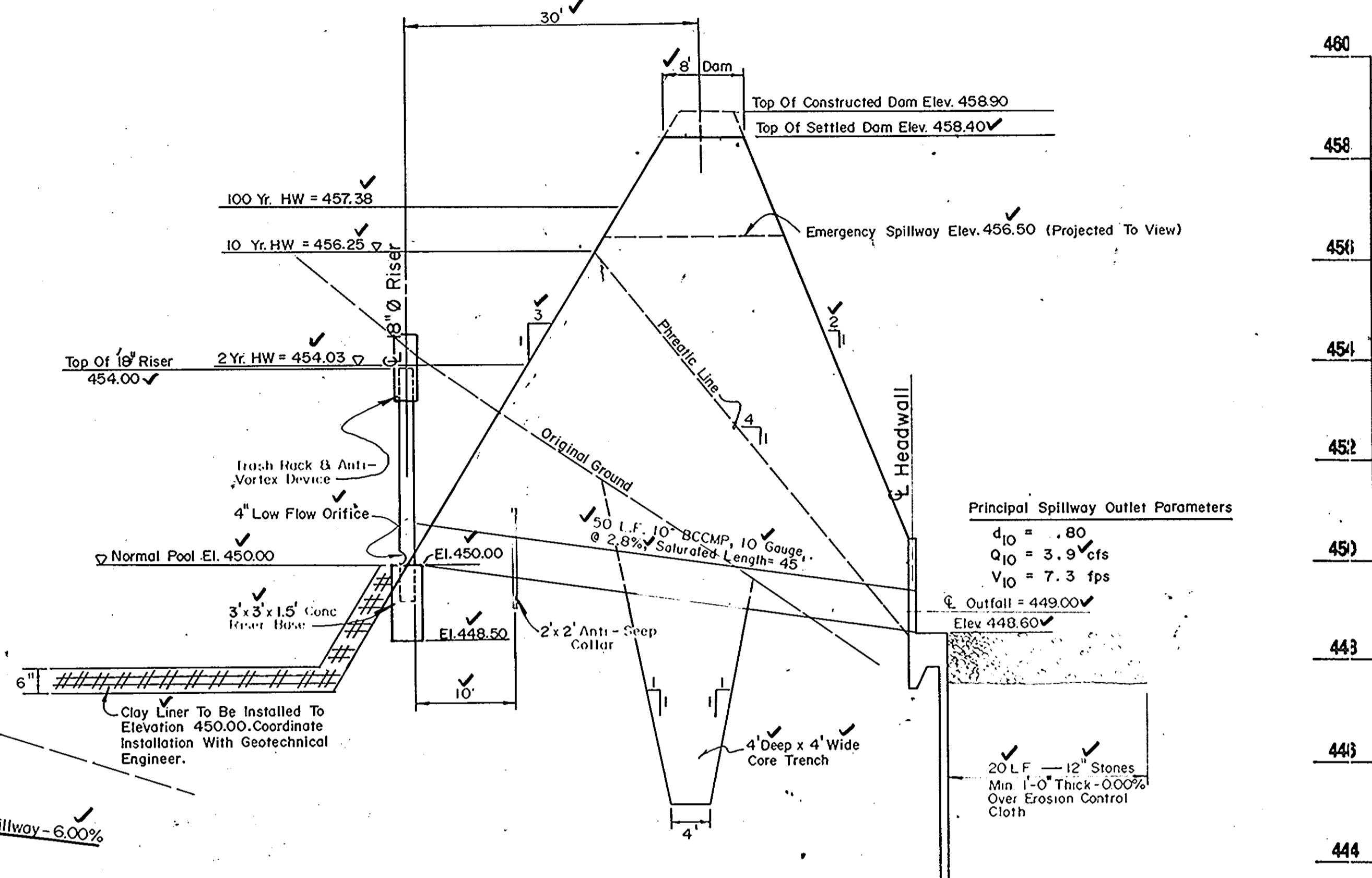


TRASH RACK DETAIL



CONCRETE RISER BASE DETAIL

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

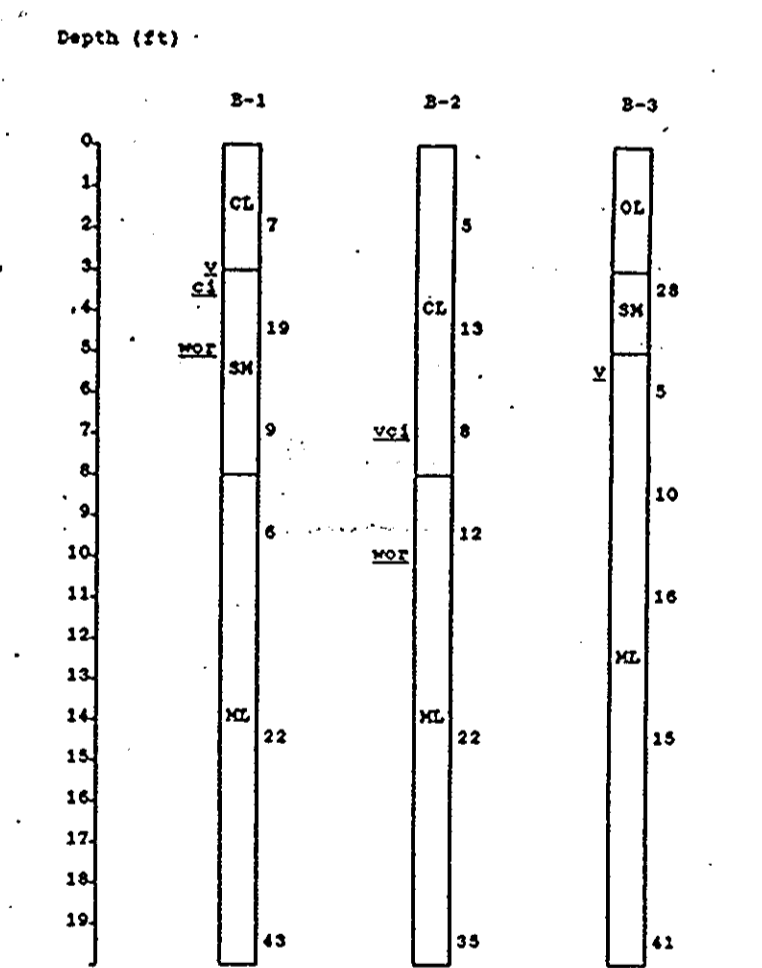


OUTLET CONTROL STRUCTURE & PRINCIPAL SPILLWAY

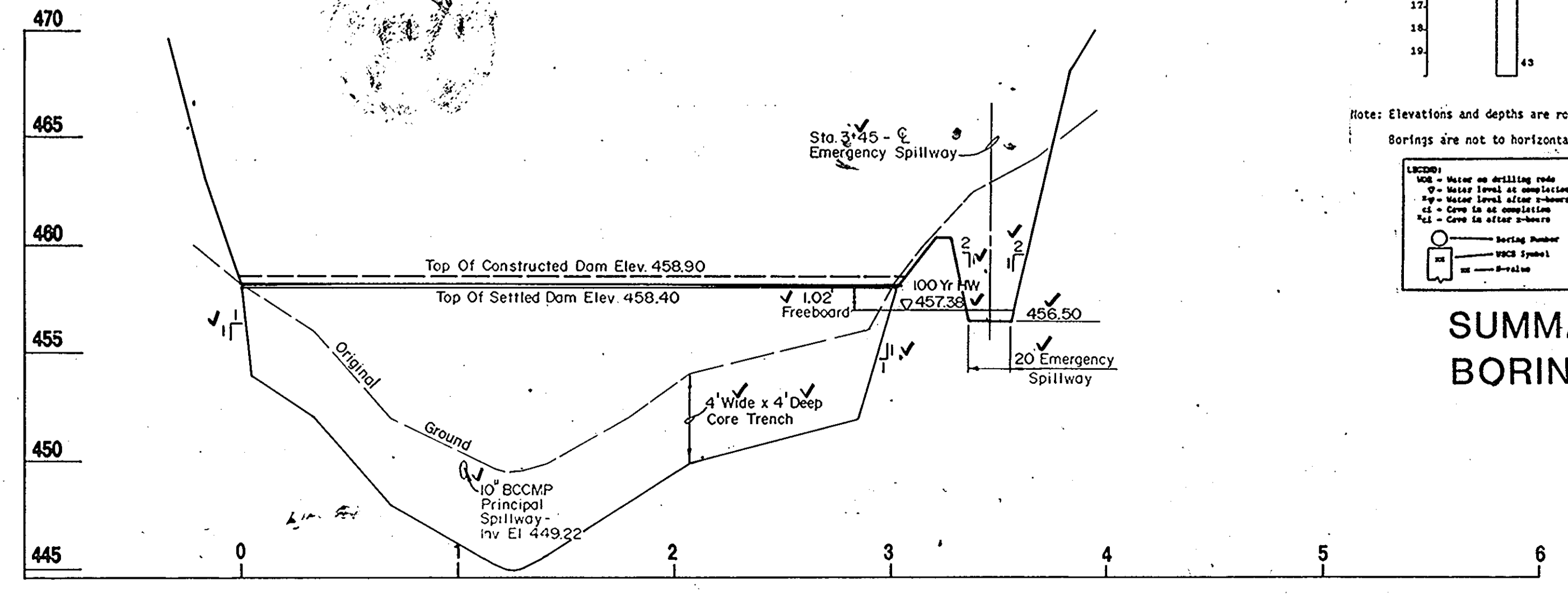
CONSTRUCTION SEQUENCE

- PHASE 1A
1. Obtain building permit.
 2. Notify the Howard County Bureau of Licenses, Inspections and permits and the construction inspection/surveys division at least 24 hours prior to beginning construction.
 3. Install temporary sediment control measures.
 4. Install S.W.M. pond and Temporary Diversion Ditch.
 5. Rough grade site. Install utilities. Stabilize areas to be paved.
 6. Construct building (Phase 1A).
 7. Pave areas to be paved. Fine grade site. Apply permanent stabilization to all disturbed areas.
 8. Contractor Will Be Required To Add Any Supplemental Soil/Erosion Control Measures As Required By County Inspection.

Boring Data Based On A.T.E.C. Associates, Inc., Report Dated Jan. 9, 1989. Refer To Said Report For Complete Data.

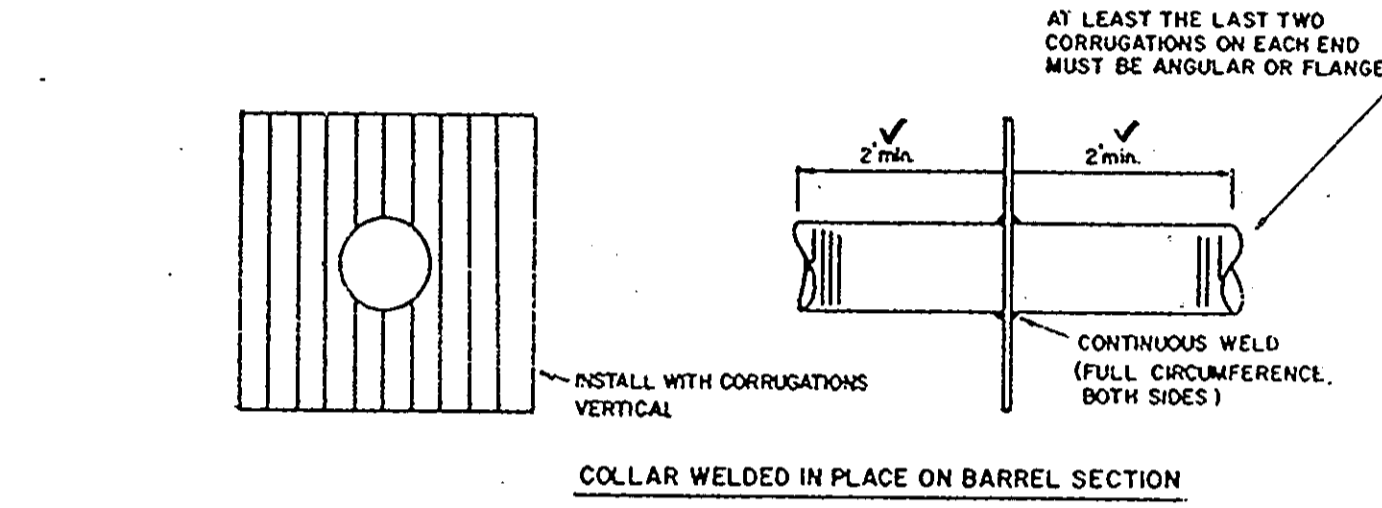


SUMMARY OF BORING DATA

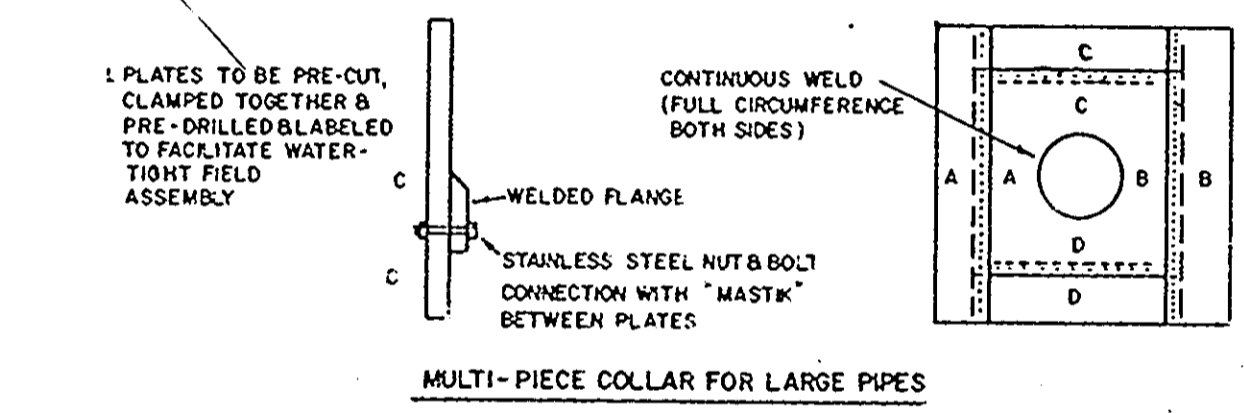


PROFILE: TOP OF DAM

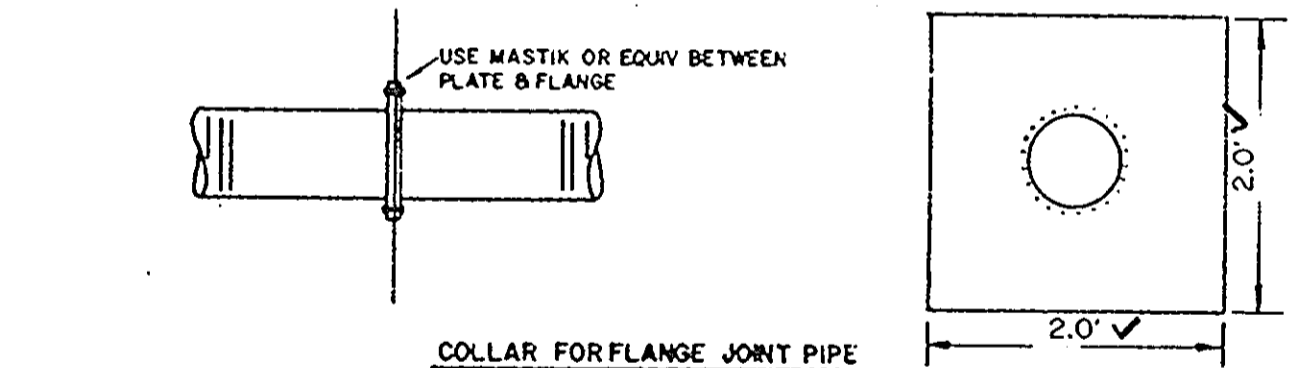
STORMWATER MANAGEMENT AS-BUILT



COLLAR WELDED IN PLACE ON BARREL SECTION



MULTI-PIECE COLLAR FOR LARGE PIPES



COLLAR FOR FLANGE JOINT PIPE

TYPICAL ANTI-SEEP COLLAR DETAIL

PROFILE: EMERGENCY SPILLWAY

SCALE: H=1"=10' V=1"=5'

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 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.

James Di Viegilio 4/11/89
Signature of Developer Date

APPROVED: For Storm Drainage Systems and Public Works.
Howard County Department of Public Works.

James M. Lewis 7/20/89
Director Date

William S. Riley 5-23-89
Chief Bureau of Engineering 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.

J. Helms 4/12/89
U.S. Soil Conservation Service Date

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE: 5-5-89

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 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 Thirty Days of Completion.

Robert W. Moran 4/11/89
Signature of Engineer Date

APPROVED: Howard County Office of Planning and Zoning.

William S. Riley 8-10-89
Planning Director Date

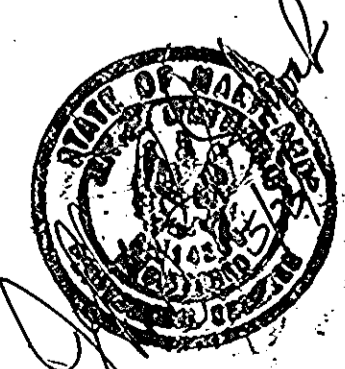
William S. Riley 7/27/89
Chief, Division of Community Planning and Land Development Date

These Plans for Small Pond Construction, Soil Erosion and Sediment Control Meet The Requirements of the Howard Soil Conservation District.

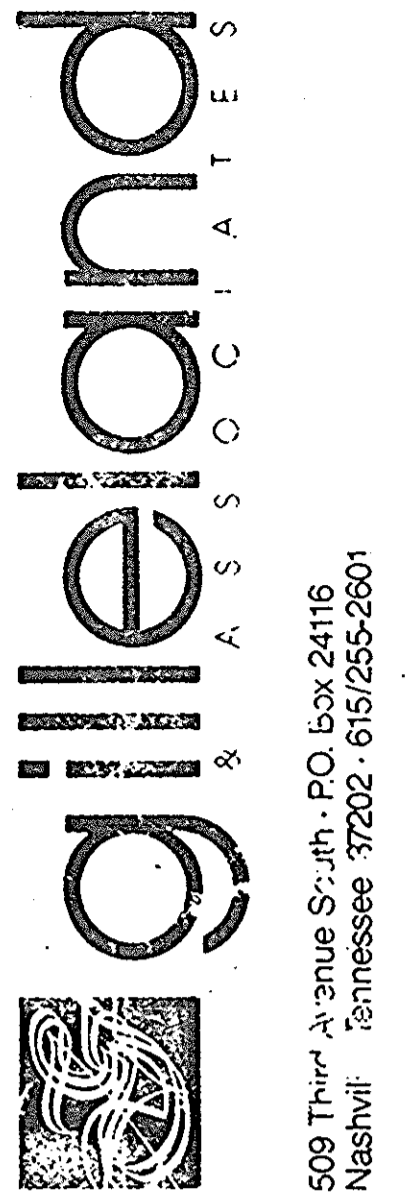
Robert W. Zelnick 4/12/89
Howard Soil Conservation District Date

APPROVED: For Private Water and Private Septic Sewerage Systems. Howard County Health Department.

James M. Lewis 4-20-89
County Health Officer Date



FOR AS BUILT BY SITE RESOURCES, INC.



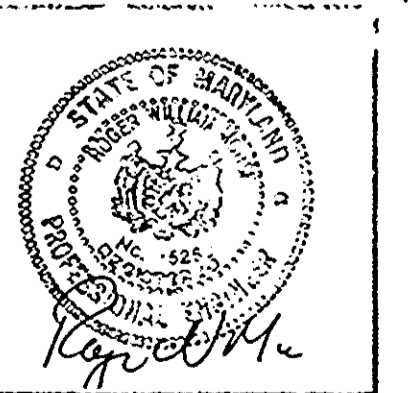
PREPARED BY
THOMAS & MILLER
750 OLD HICKORY BLVD.
TWO BRENTWOOD COMMONS SUITE 222
BRENTWOOD, TN 37027
(615) 377-9773

STORM WATER MANAGEMENT DETAILS & SECTIONS AS-BUILT

CHAPELGATE PRESBYTERIAN CHURCH
Elliott City, Maryland

TAX MAP 16 PARCEL 110 ELECTION DISTRICT #3

OWNER: CHAPELGATE PRESBYTERIAN CHURCH
5151 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 2043



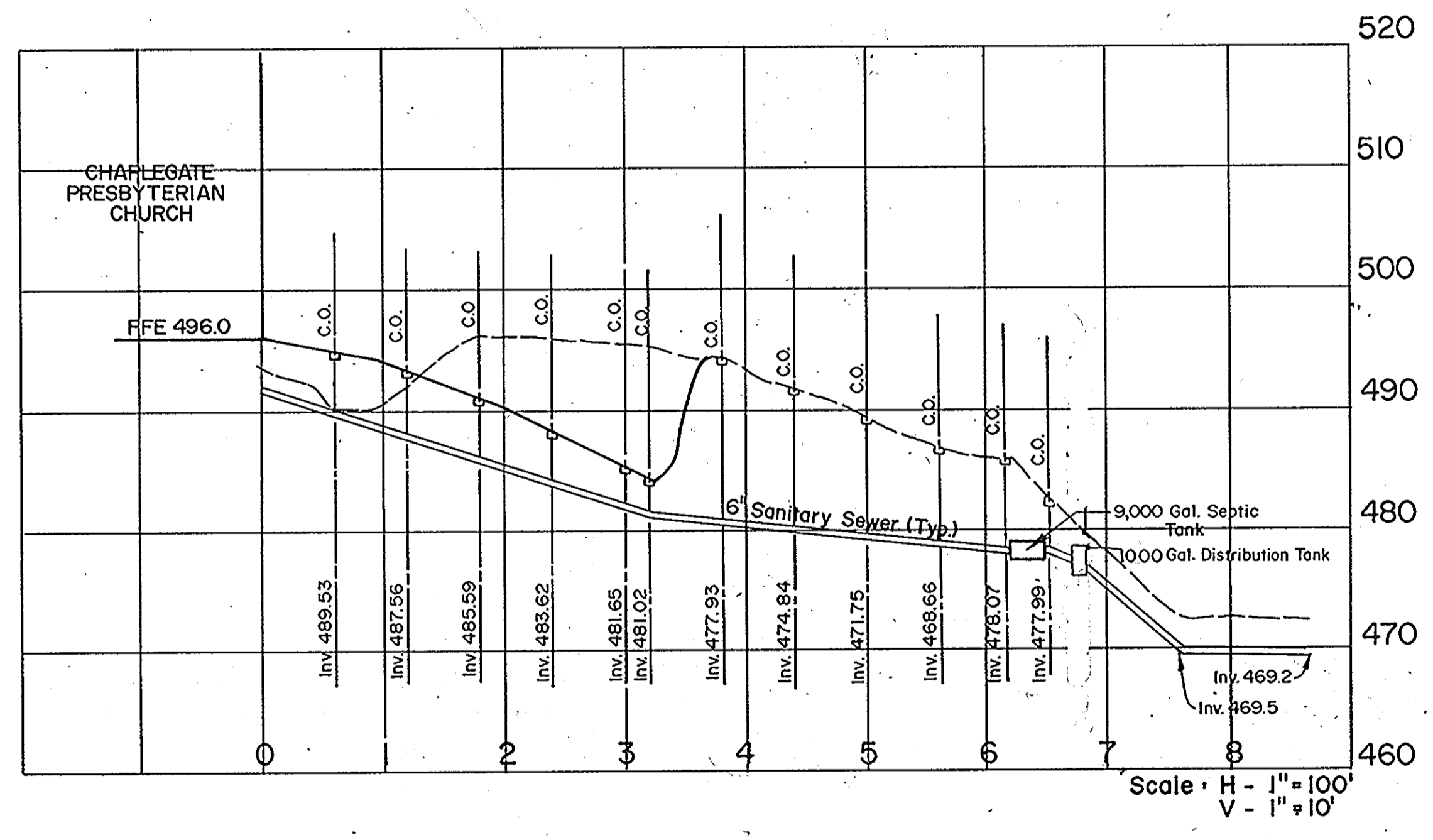
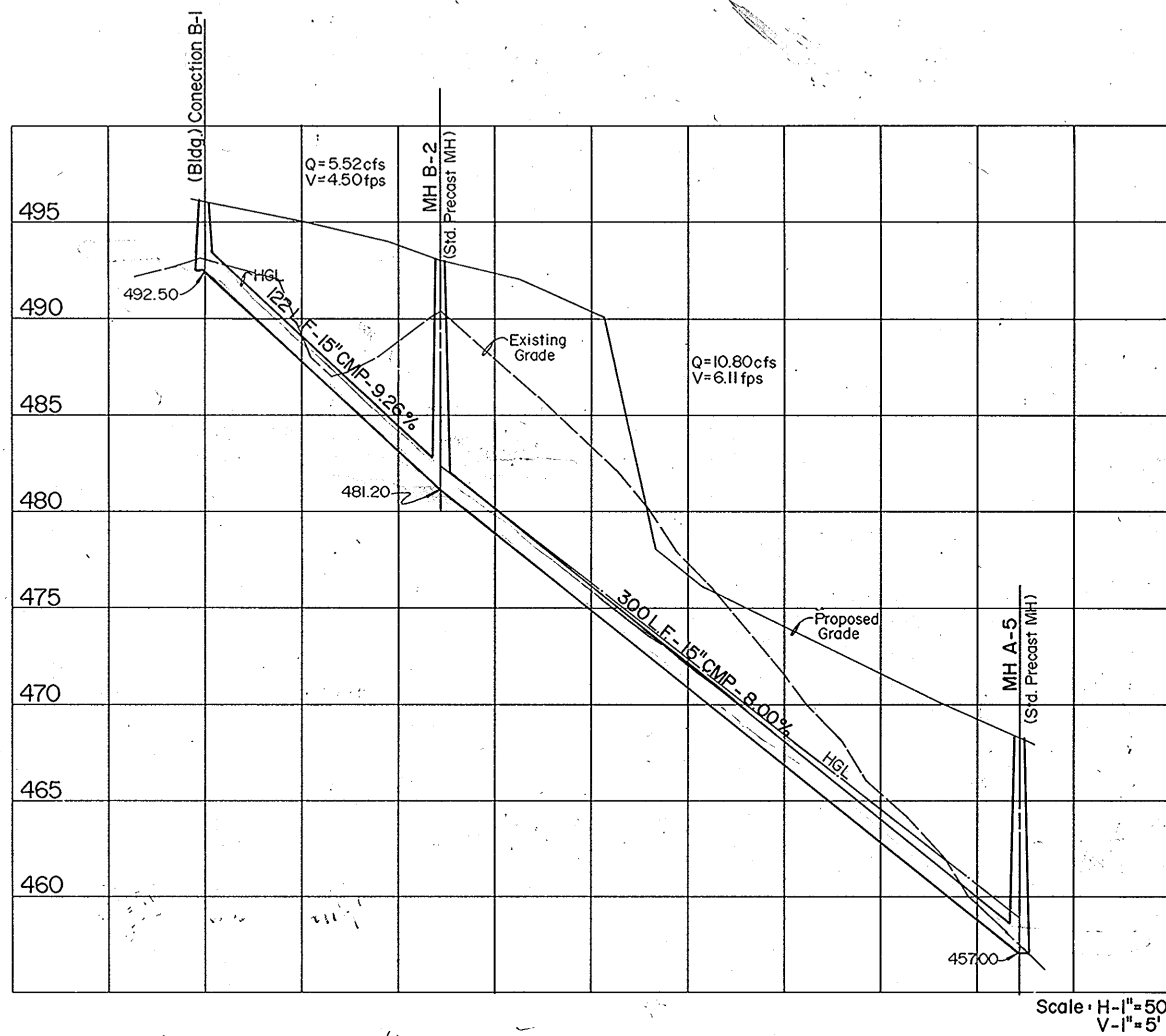
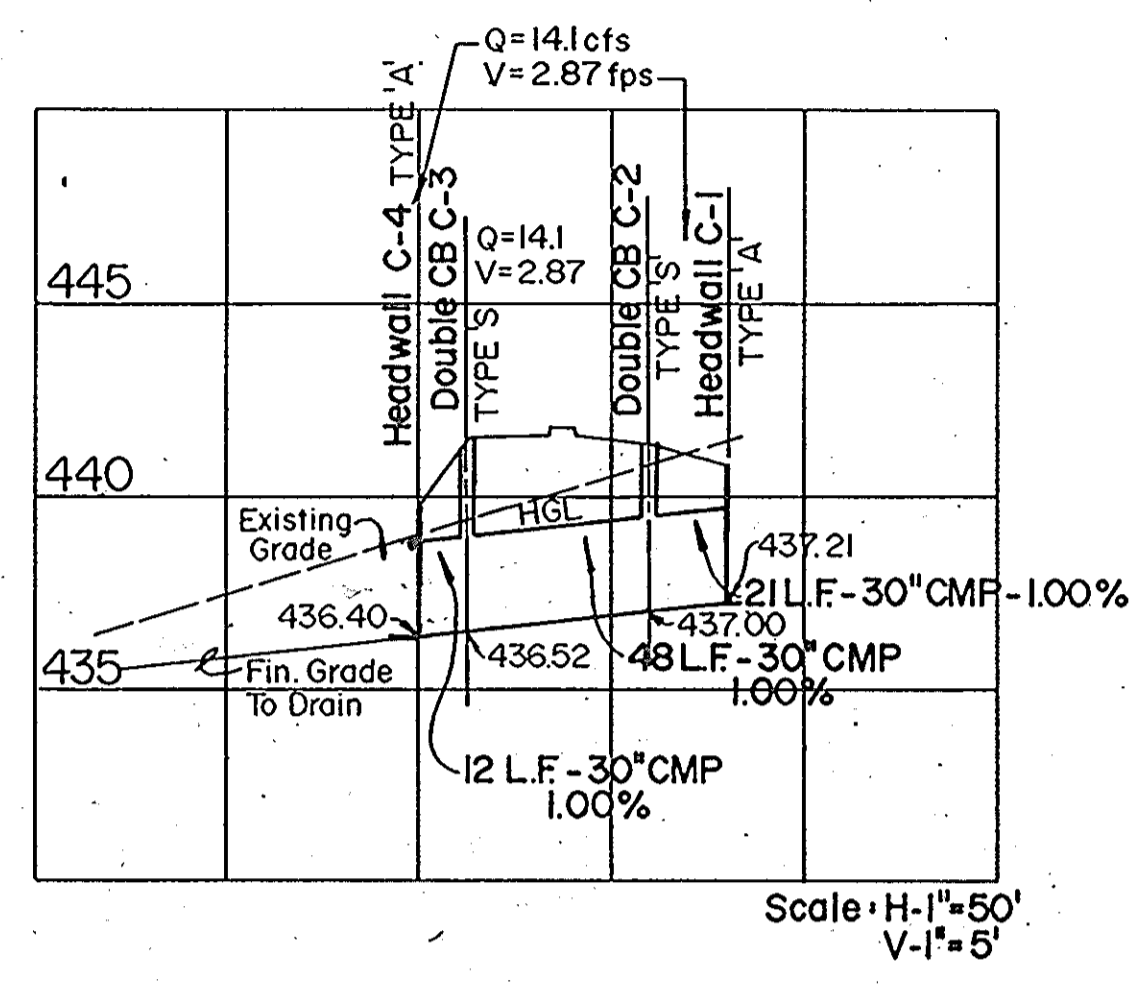
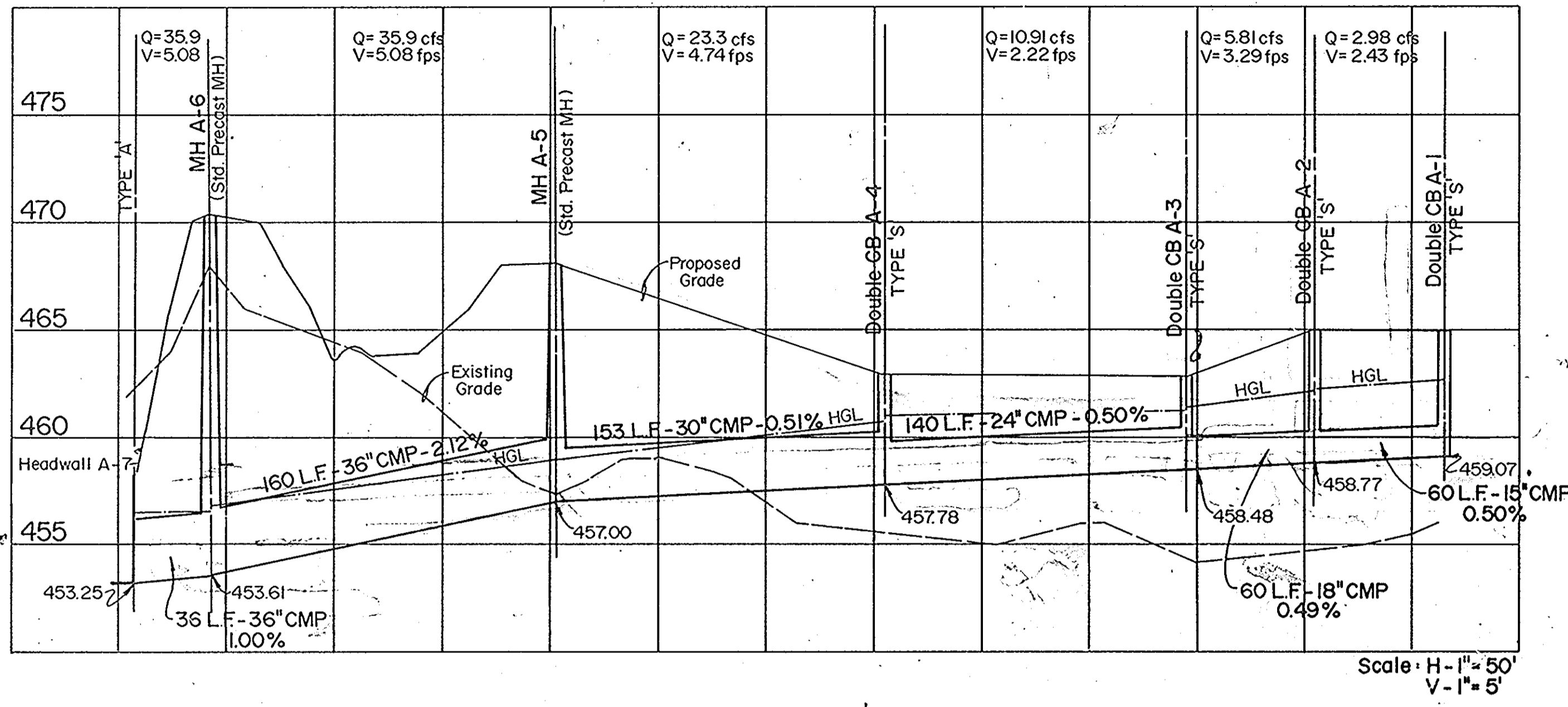
C-4-1 8518

DATE: AUG 14, 1987
DEC 23, 1987
SEPT 12, 1988
JAN 9, 1989

SHEET C-7 OF 9

DATE OF ASBUILT 5/10/91

SDP-88-37



APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 3-31-89
cm

APPROVED: Howard County Office of Planning and
Zoning
Ullrich 2/10/89
Planning Director Date
James J. ... 3/2/89
Chief, Division of Community Planning and
Land Development Date

APPROVED: For Storm Drainage Systems and Public Roads
Howard County Department of Public Works.
James P. ... 7/6/89
Director Date
... 5-23-89
Chief Bureau of Engineering Date

APPROVED: For Private Water and Private Septic
Sewerage Systems, Howard County Health
Department.
Joan Boyd 4/20/89
County Health Officer Date

These Plans Have Been Reviewed For The
Howard Soil Conservation District And Meet The
Technical Requirements For Small Pond Con-
struction, Soil Erosion And Sediment Control.
J. ... 4/12/89
U.S. Soil Conservation Service Date

These Plans For Small Pond Construction, Soil Erosion And
Sediment Control Meet The Requirements Of The Howard Soil
Conservation District.
Robert Z... 4/12/89
Howard Soil Conservation District Date

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.
Robert W. ... 3/1/89
Signature of Engineer Date

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
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.
James D. ... 4/12/89
Signature of Developer Date



DATE	BY
SEPT. 12, 1988	
JAN. 9, 1989	
MAR. 8, 1989	
SHEET	OF
C-8	9

