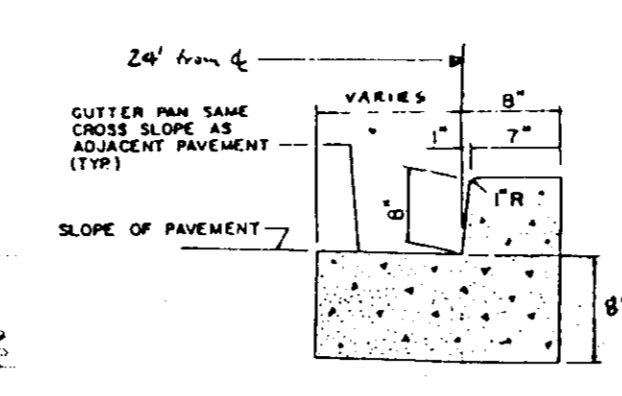


PAVING SCHEDULE*

Highway widening & Entrance Ramp: (390 sq.yd.) Depth (in.)	3	1	CURB & GUTTER MDSHA TYPE A
Bituminous Surface Course (SN) on Bituminous Base Course (BC) on Grade Aggregate Base Course CR 6 (GA S/B)	4	2	
	6	4	

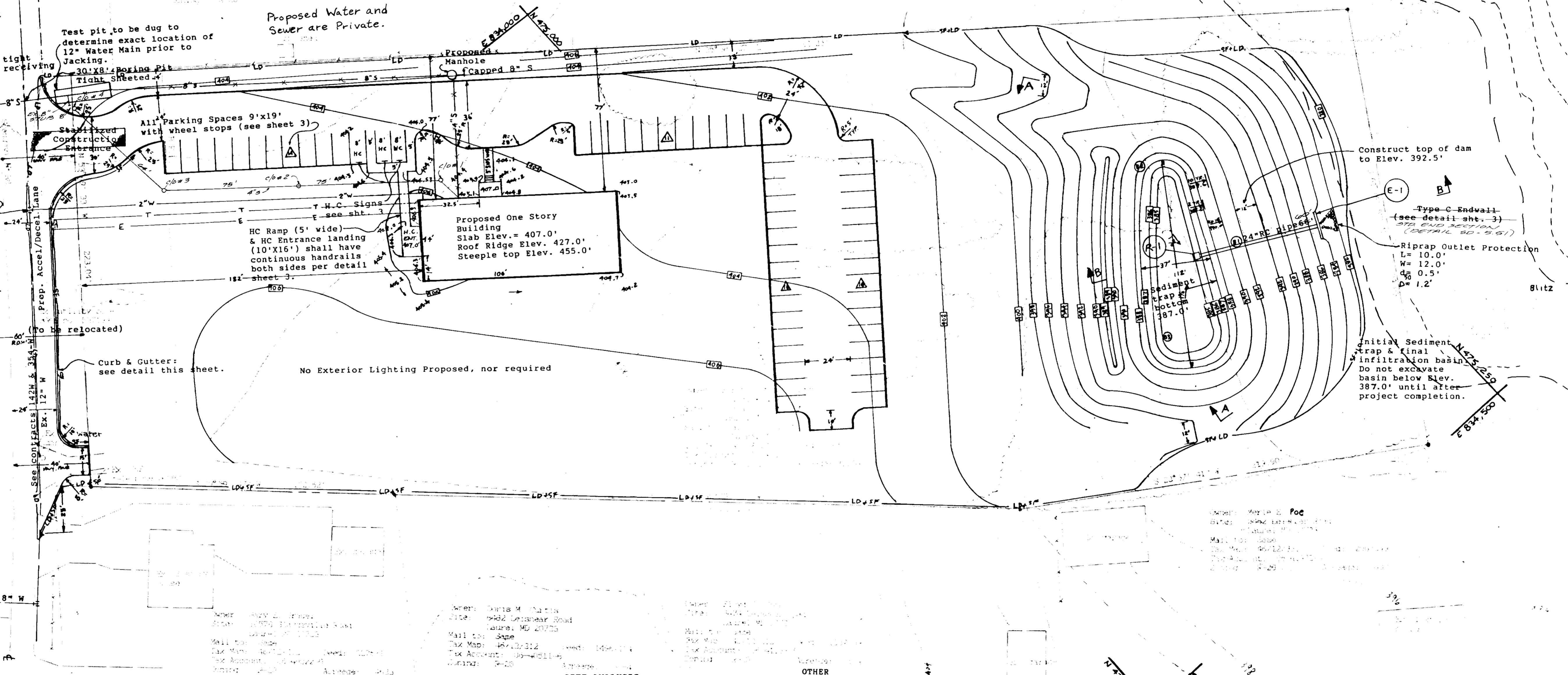


Bituminous Surface Course (SN) on Bituminous Base Course (BC) on Grade Aggregate Base Course CR 6 (GA S/B)

Sidewalk 4" concrete w/6X6 wire mesh: 6 sq.yd. Curb & Gutter: 190ft. Must Comply with Maryland Department of Transportation Standard Specifications.

PROPERTY INFORMATION SHEET

OWNER	DEVELOPER	DATE
LAUREL KOREAN BAPTIST CHURCH	REALTHY ENGINEERING, INC.	11/10/93
10624 SCAGGSVILLE RD.	10624 SCAGGSVILLE RD.	
LAUREL, MD 20715	LAUREL, MD 20715	



By the Developer:
I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Department of the Environment 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 onsite inspections by the Howard Soil Conservation District.

William Lee 2/10/93
Signature of Developer
Print name below signature
WILLIAM LEE

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

Norman Z. Cooper
Signature of Engineer
Print name below signature
NORMAN Z. COOPER

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 M. Nelson 2/22/93
Signature of District Director
Print name below signature
JAMES M. NELSON

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

Robert J. Zick 2/24/93
Signature of District Director
Print name below signature
ROBERT J. ZICK

CONSTRUCTION SEQUENCE SEE SHEET 3 OF 5
GENERAL NOTES SEE SHEET 3 OF 5

LEGEND

Existing Contour	---
Proposed Contour	---
Existing Structure	---
Proposed Structure	---
Proposed Spot Elevation	114.0
Property Line	---
Existing Water	---
Proposed Water	---
Existing Sewer	---
Proposed Sewer	---
Proposed Telephone	---
Proposed Electric	---
Existing Edge Pavement	---
Proposed Edge Pavement	---
Proposed Curb & Gutter	---
Proposed Tree Line	---
Existing Tree Line	---
Proposed Limit of Disturbance	---
Proposed Silt Fence	---
Proposed Stabilized Construction Entrance	---
Soil Boring Location & Number	---

SITE ANALYSIS

- Total Area: 3.934 Acres
- Present Zoning: R-20
Special Exception
Case No: BA 92-02E
Granted: Sept. 1, 1992
- Proposed Use: Religious Facility
Use Group A4 (Assembly, Church)
Sunday School and Weekly Classroom use, no school, no daycare
- Number of stories: One
- Floor Area: 4,664 square feet
- Building Height: 20 ft. to Steeple line, 50 ft. to Steeple
- Total Seating Capacity: 166
- Disturbed Area: 3.80 Acres
- Total Volume of Spoil: Zero
- Total Volume of Borrow: Zero

Lighting: None proposed or required
Dumpster: None proposed or required

PROPOSED SILT FENCE: 1160 ft.

PROPOSED PIPE OUTLET SEDIMENT TRAP

Drainage Area = 3.60 Acres
Volume Required = (3.60 ac.) x (1,800 cu. ft./ac.) = 6,480 cu. ft.
Volume Provided = 16,000 cu. ft.
Bottom Size = 112 ft. x 37 ft.
Bottom Elev. = 387.0 ft.
Outlet Elev. = 389.25 ft. (100 year weir elevation)
Cleanout Elevation = 388.0 ft.
Embankment Elevation = 392.0 ft.
Weir length = 8.67 ft.
Side Slopes = 4:1

COVERAGE

Building Area: 5512 square feet = 0.13 acres
Building Coverage (%): 3.23
Allowed Coverage (%): 25.00
Total Paved Area: 0.57 acres
Total lot Coverage (building & paved): .70 acres
Green Area: 3.274 acres
Green Coverage (%): 82 %

PARKING COMPUTATIONS

Sanctuary Seating: 166 seats
Required Parking: the greater of (166 seats/3) = 56 spaces or (4,664 sq. ft./100) = 47 spaces, 56 required
Building Area: 4,664 square feet
Parking Provided: 56 spaces
Handicapped Spaces Required: 3
Handicapped Spaces Provided: 3

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

James M. Nelson 6/25/93
Signature of Health Officer
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Robert J. Zick 6/30/93
Signature of Director
DATE

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

James M. Nelson 6/23/93
Signature of Director
DATE

Norman Z. Cooper 2/24/93
Signature of Engineer
DATE

SHEET INDEX

1	Site Development Plan
2	Sediment Control Detail Sheet
3	Miscellaneous Details/Sever Profile
4	Stormwater Management Detail Sheet
5	Landscape Plan

2-10-93 *Norman Z. Cooper*

FOR REVISIONS DATED 12-19-93

SITE DEVELOPMENT PLAN

Laurel Korean Baptist Church
Liber 446 Folio 142
6th Election District, Howard Co.
Tax Map No. 46 Block No. 12 Parcel 17

Site: 10624 Scaggsville Road
Laurel, Maryland 20707
Petitioner: Laurel Korean Baptist Church
811 Fifth Street, Laurel, Maryland 20707
Telephone: (301) 490-8943
Owner: Same

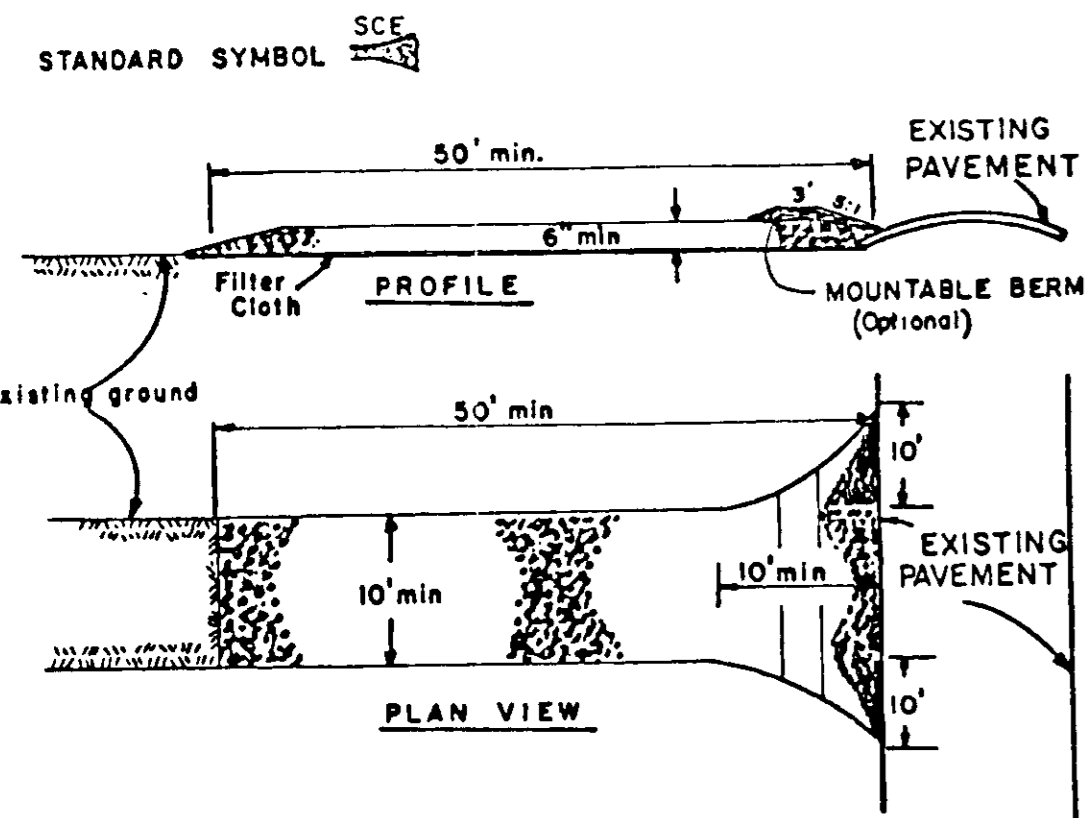
REALTHY ENGINEERING, INC.
14300 Gallant Fox Lane, #212
Bowie MD 20715

Annapolis (301) 741-1111
Baltimore (301) 792-8722
Houston (713) 930-0818
Washington (301) 282-4036

Scale: 1" = 30'

Sheet 1 of 5

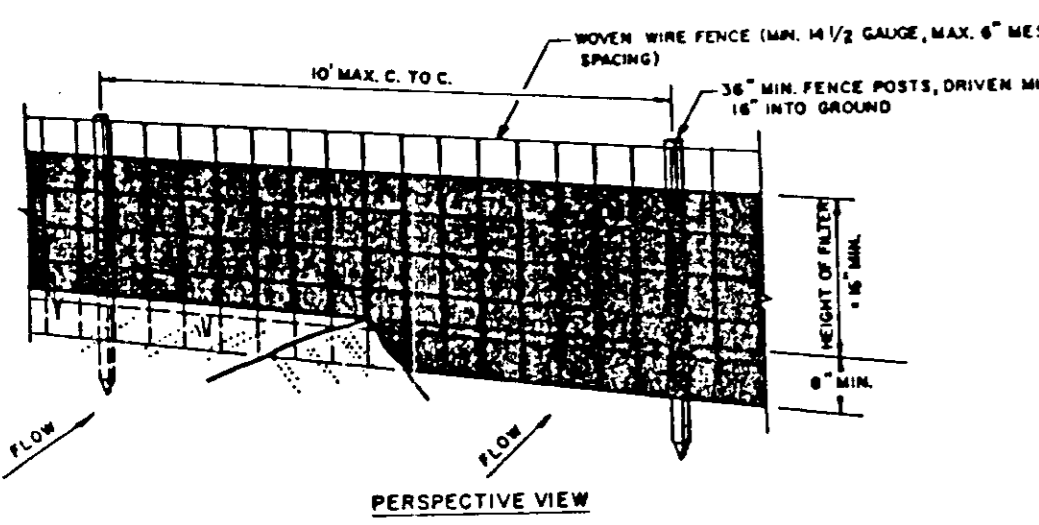
STABILIZED CONSTRUCTION ENTRANCE
not to scale



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed 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 mountable 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 cleanup of any measures 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.

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- 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.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	6-25-93
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	6/30/93
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	6/30/93
APPROVED: CHIEF, BUREAU OF ENGINEERING	6/30/93

STANDARD AND SPECIFICATIONS FOR TOPSOILING

Definition

Placement of topsoil over a prepared subsoil prior to establishment of vegetation.

Purpose

To provide a suitable soil medium for vegetative growth on areas with low moisture, low nutrient levels, low pH, or the presence of other materials toxic to plants.

Conditions Where Practice Applies

This practice is recommended for sites of 2:1 or flatter slopes where:

- The texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth.
- The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- The original soil to be vegetated contains material toxic to plant growth.
- The soil is so acid that treatment with limestone is not feasible.

SPECIFICATIONS

Section I - Site Preparation (Where Topsoil is to be added)

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.
- Grading: Grades on the areas to be topsoiled which have been previously established shall be maintained.
- Liming: Where the subsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- Tilling: After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by disking or by scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.

Section II - Topsoil Material and Application

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

- Materials:** Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, diameters, trash or other extraneous materials larger than 1 1/2 inches in diameter. Topsoil must be free of plants or plant parts of bermudagrass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistles, or others as specified. All topsoil shall be tested by a recognized laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content of not less than 1.5 percent by weight is required. If pH value is less than 6.0, lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.

No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed to permit dissipation of toxic materials.

Note: Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil.

- Grading:** The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets. Top soil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

Alternative for Permanent Seeding

As an option to applying the full amounts of lime and commercial fertilizer, apply Composted Sludge as specified below, a potassium fertilizer at the rate of 4 pounds per 1,000 square foot and 1/3 the normal lime application rate.

Composted Sludge Material

Composted sludge for use as a soil amendment or conditioner shall conform to the following requirements:

- Be supplied by or originate from a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of Health and Mental Hygiene under Regulation 10.17.10.
- Shall contain at least 1 percent nitrogen, 1.5 percent phosphorus and .2 percent potassium and have a pH of 7.0 and 8.0. If compost does not meet these requirements, the appropriate constituents must be added so that the requirements are met prior to use of the compost.
- Be applied at a rate of 2,000 pounds per 1,000 square feet.

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- All pipe connections shall be watertight.
- The top 2/3 of the riser shall be perforated with one (1) inch diameter holes or slits spaced six(6) inches vertically and horizontally and placed in the concave portion of pipe. No holes will be allowed within six(6) inches of the horizontal barrel.
- The riser shall be wrapped with 1/4 to 1/2 inch hardware cloth wire then wrapped with filter cloth (having an equivalent sieve size of 40 - 80). The filter cloth shall extend six (6) inches above the highest hole and six (6) inches below the lowest hole. Where ends of filter cloths come together, they shall be overlapped, folded and stapled to prevent bypass.
- Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
- Fill material around the pipe spillway shall be hand compacted in four(4) inch layers. A minimum of two (2) feet of hand-compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.
- The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. For concrete bases the depth shall be 12 inches with the riser embedded nine (9) inches. A 1/4 inch minimum thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and then place two (2) feet of stone, gravel, or tamped earth on the plate.

HOWARD SOIL CONSERVATION DISTRICT 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, disking 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 sq. ft.) and 600 lbs per acre (14 lbs/1000 sq. ft.) of fertilizer before seeding. Harrow or disk 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 disk 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 creeping 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 rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

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

TEMPORARY SEEDING NOTES

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

Seedbed preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: -- Apply 620 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: -- For periods March 1 thru April 30 and from August 15 thru October 15, seed with 2-1/2 bushel per acre of annual rye (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 15 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 rotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 348 gal per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

By The Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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 of Developer: *William Lee* Date: 2/10/93
Print name below signature: William Lee

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.

By The Engineer:

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

Signature of Engineer: *Norman L. Cooper, P.E.* Date: 2/22/93
Print name below signature: Norman L. Cooper, P.E.

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.

CONSTRUCTION SEQUENCE

Day	Description
1	Obtain grading permit
2	On site preconstruction meeting with county inspectors and Realty Engineering, Inc. (the engineer). Note: Contractor to contact Howard County, Department of Inspections and Permits at (410) 880-3450 at least 48 hours prior to commencement of work.
3-15	Initial construction shall be limited to sediment control measures to be constructed in the following sequence: - stabilized construction entrance - silt fence - Basin 1, do not excavate below bottom elevation 387.0 (to be used as a pipe outlet sediment trap and to provide storwater management during construction), plug 2 and 10 year orifices during construction - vegetative stabilization
16	Inspection and approval by county inspectors and by the engineer.
17-150	Complete all other site construction in the following sequence: - site grading - water and sewer service lines, electric service, telephone service - parking lot - building - landscaping and vegetative stabilization
151	Inspection and approval by county inspectors and the engineer.
151-159	Upon completion of vegetative stabilization, grade Basin 1 to final elevation. Remove plug from 2 and 10 year orifices. Remove silt fence. Apply vegetative stabilization to all disturbed areas.
160	Inspection and approval by county inspectors and the engineer.

HOWARD SOIL CONSERVATION DISTRICT SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections Licenses and Permits, Sediment Control Division prior to the start of any construction. () By The Developer:

- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current "Maryland Standards and Specifications for Soil Erosion and Sediment Control", and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all 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 of Developer: *William Lee* Date: 2/10/93
Print name below signature: William Lee

Signature of Engineer: *Norman L. Cooper, P.E.* Date: 2-16-93
Print name below signature: Norman L. Cooper, P.E.

2. 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.

3. 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 seeding (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.

4. 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.

Total area of site	3,934 Acres
Area disturbed	3.50 Acres
Area to be roofed or paved	0.63 Acres
Area to be vegetatively stabilized	2.87 Acres
Total cut	5,320 Cu. Yds.
Total fill	5,320 Cu. Yds.
Offsite waste/borrow area location	N/A

5. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

6. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

7. 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.

8. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

Revised 1-11-93; SC Signature Blocks.

Signature of Developer: *William Lee* Date: 2-10-93

Signature of Engineer: *Norman L. Cooper* Date: 2/22/93

REalty ENGINEERING, Inc.
14300 Gallant Fox Lane, #212
Bowie MD 20715

Annapolis (301) 741-1111
Baltimore (301) 782-8722
Houston (713) 820-0818
Washington (301) 262-4038

SEDIMENT CONTROL DETAIL SHEET

Laurel Korean Baptist Church
Liber 446 Folio 142
6th Election District, Howard Co.
Tax Map No. 46 Block No. 12 Parcel 17

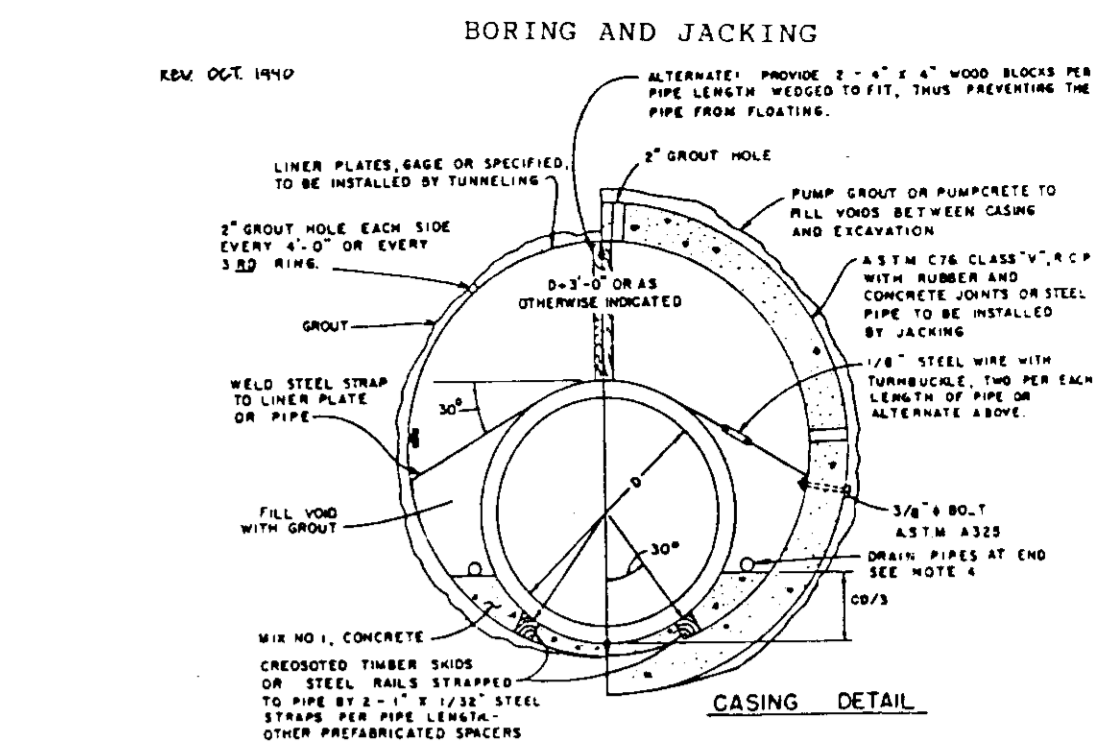
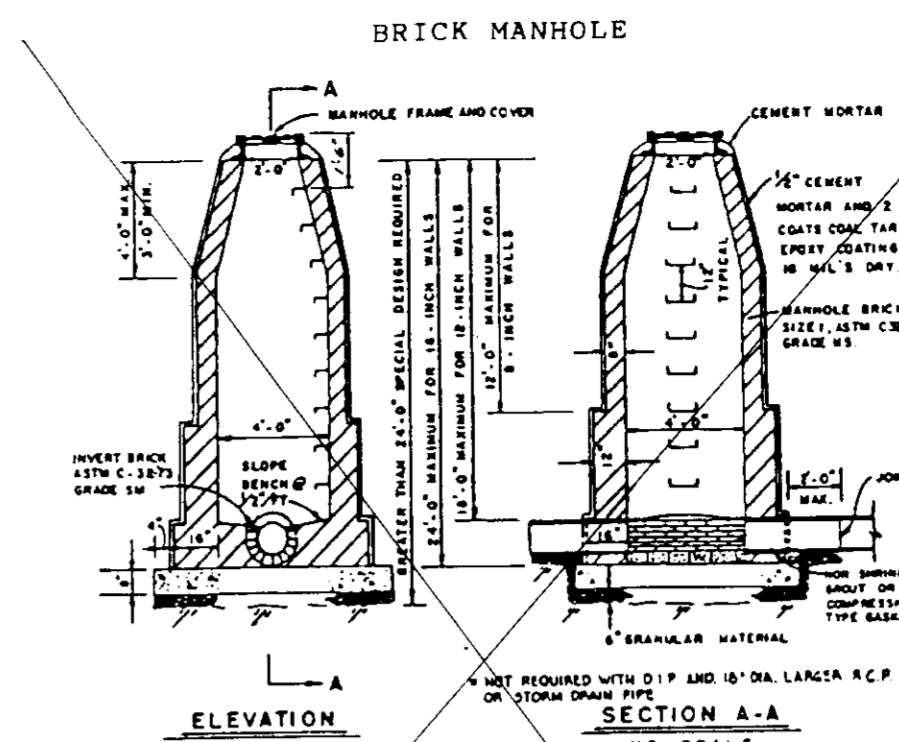
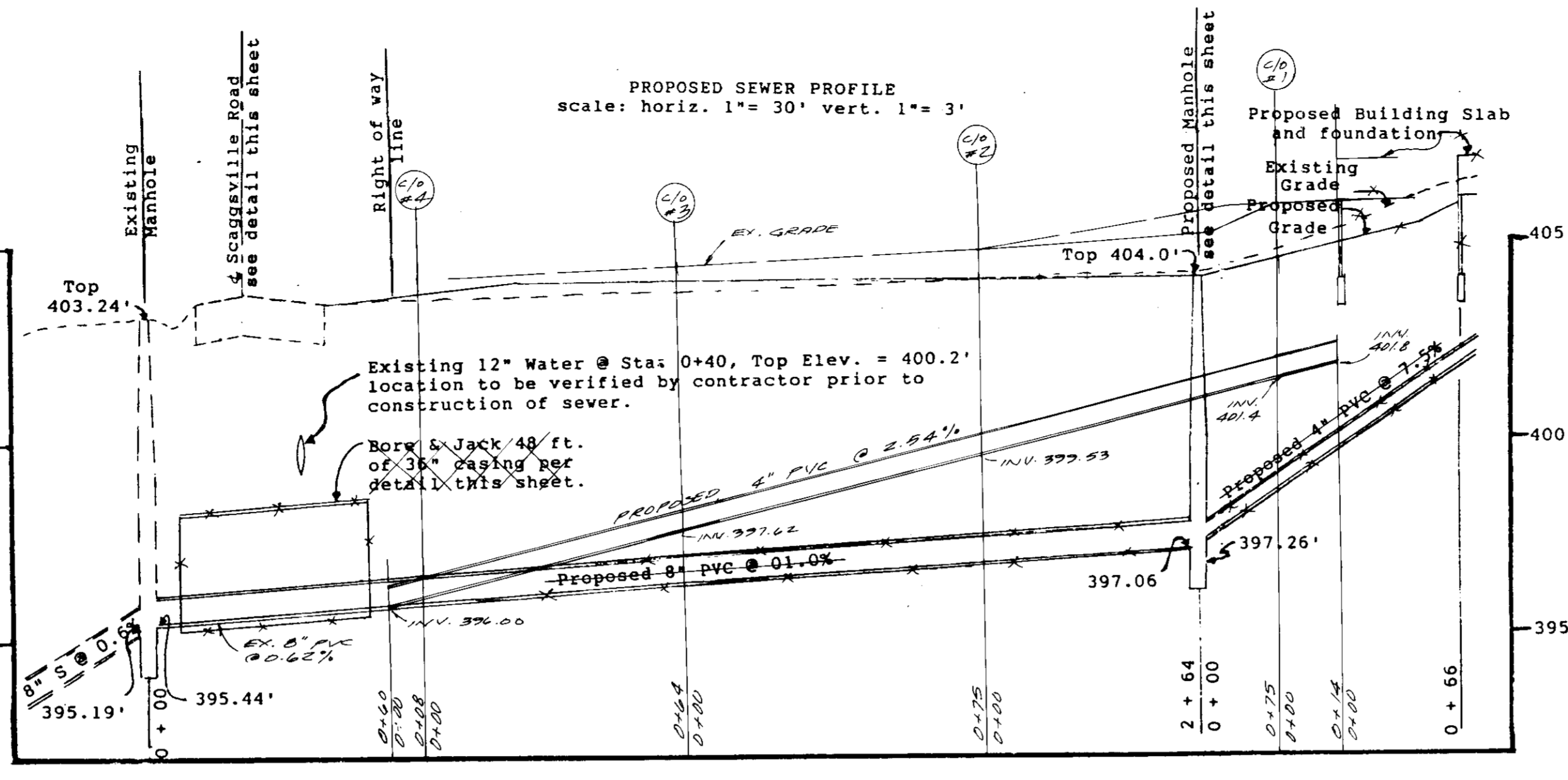
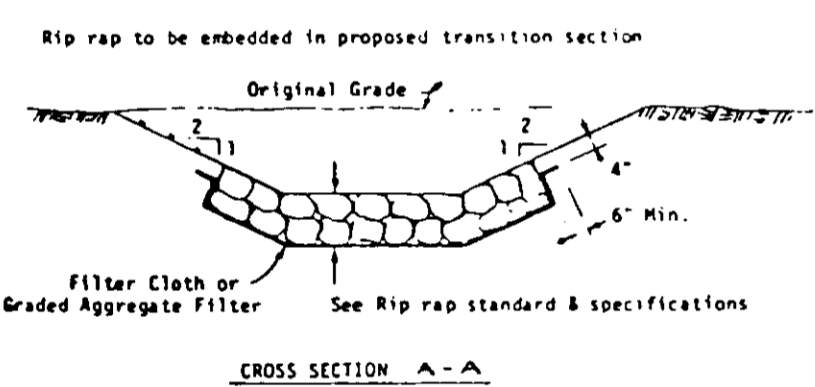
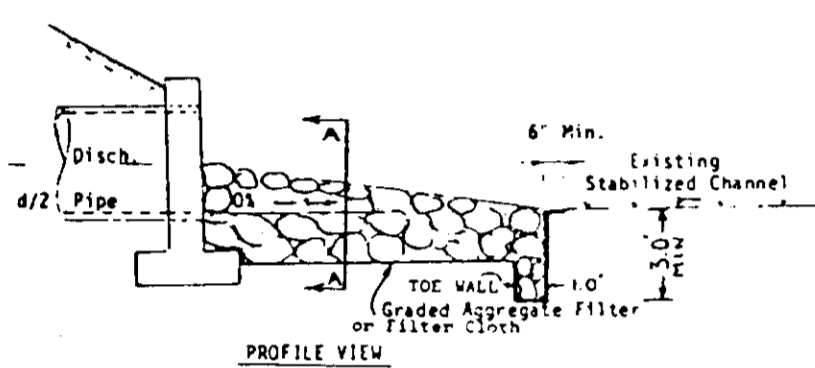
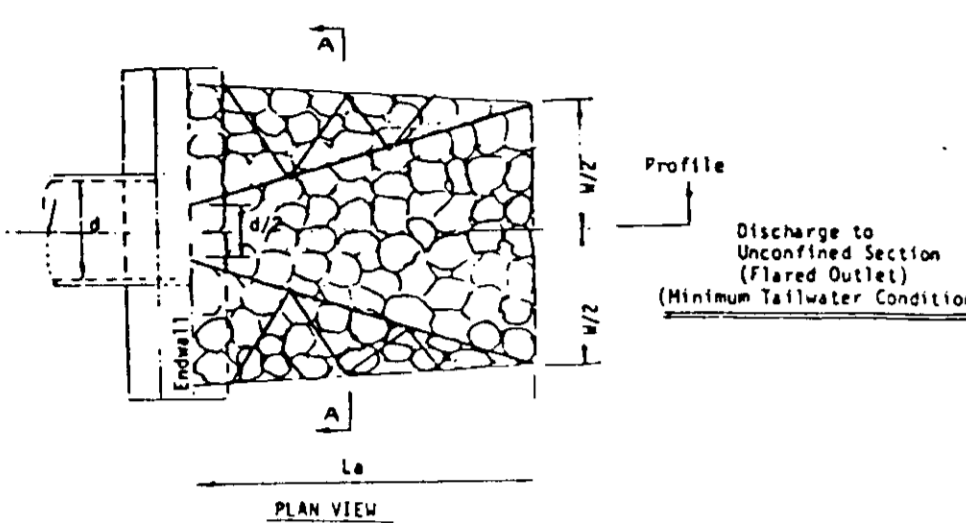
Site: 10624 Scaggsville Road
Laurel, Maryland 20707
Petitioner: Laurel Korean Baptist Church
811 Fifth Street, Laurel, Maryland 20707
telephone: (301) 490-8943
Owner: Same

Sheet 2 of 5

RIPRAP OUTLET PROTECTION
CONSTRUCTION SPECIFICATIONS

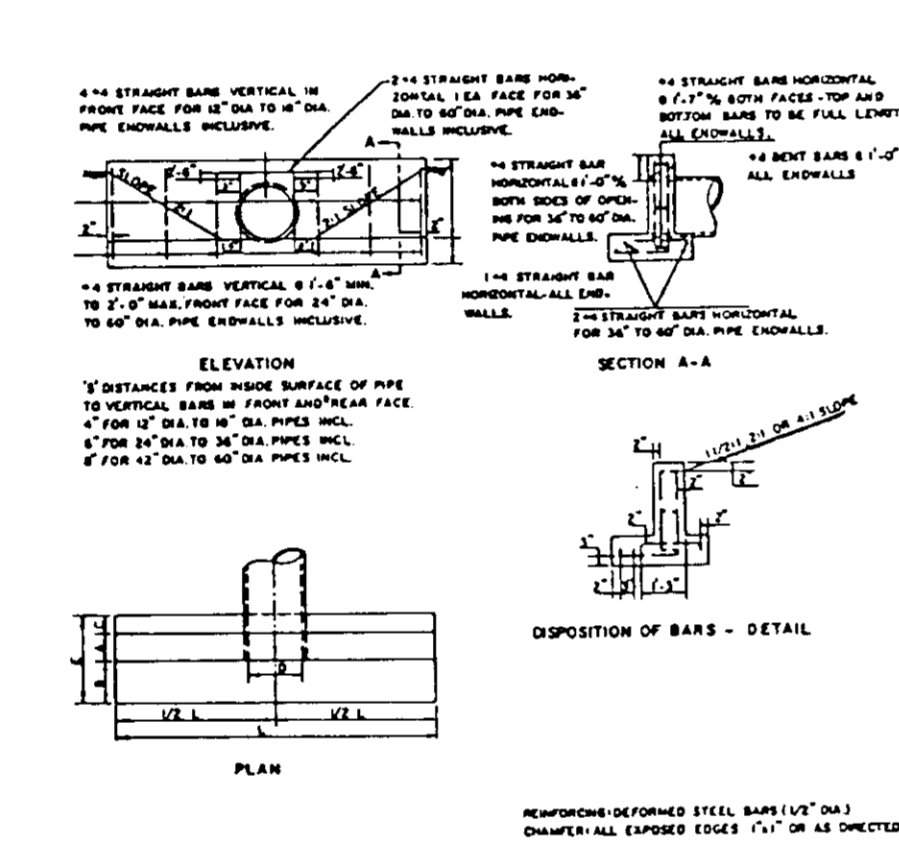
- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repair or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogenous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

RIPRAP OUTLET PROTECTION 1

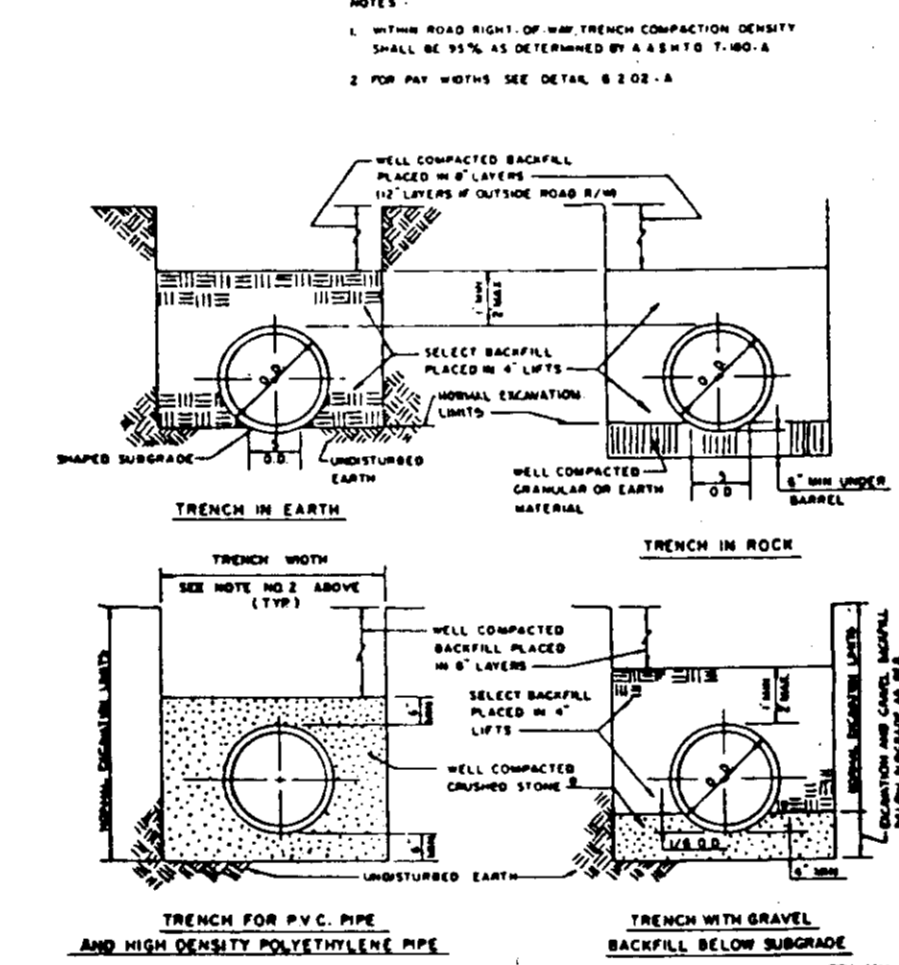


- GENERAL NOTES APPLICABLE TO ALL BRICK MANHOLES
- MANHOLE FRAMES SHALL BE SET IN PLACE IN ACCORDANCE WITH A.S.T.M. SPECIFICATION FOR CAST IRON MANHOLE FRAMES. ALL OTHER SURFACES SHALL BE TREATED WITH A DUST-WASH POWDER AND COATED WITH AN ANTI-RUST COMPOSITION. SURFACES SHALL BE TREATED WITH AN ANTI-RUST COMPOSITION. SURFACES SHALL BE TREATED WITH AN ANTI-RUST COMPOSITION.
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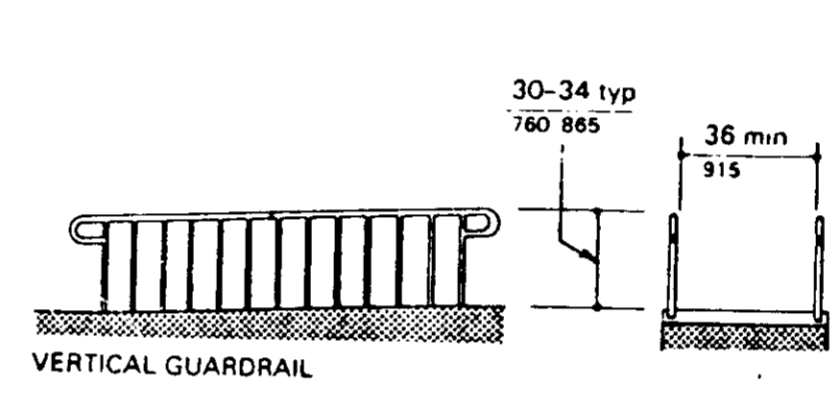
TYPE "C" ENDWALL CIRCULAR PIPE



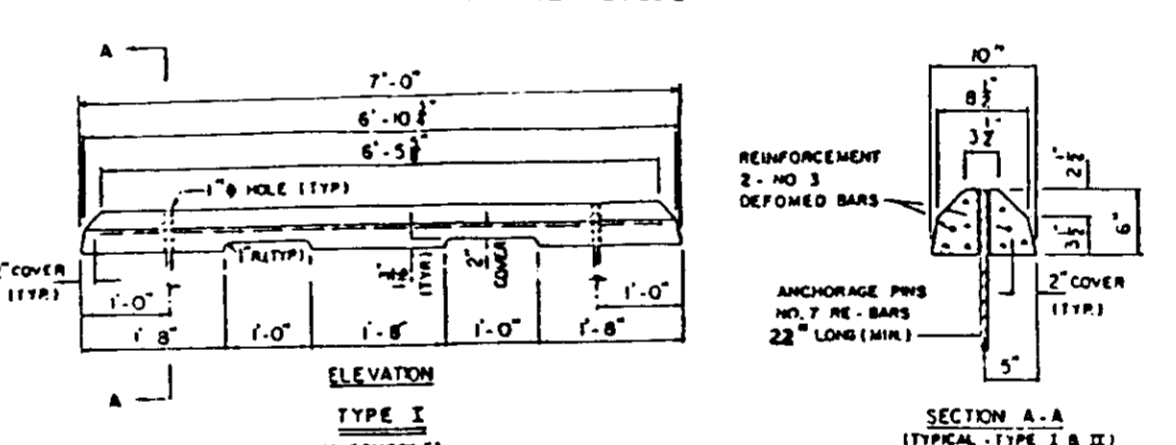
TRENCH BEDDING DETAILS



HANDICAPPED HANDRAILS



PRECAST CONCRETE WHEEL STOPS



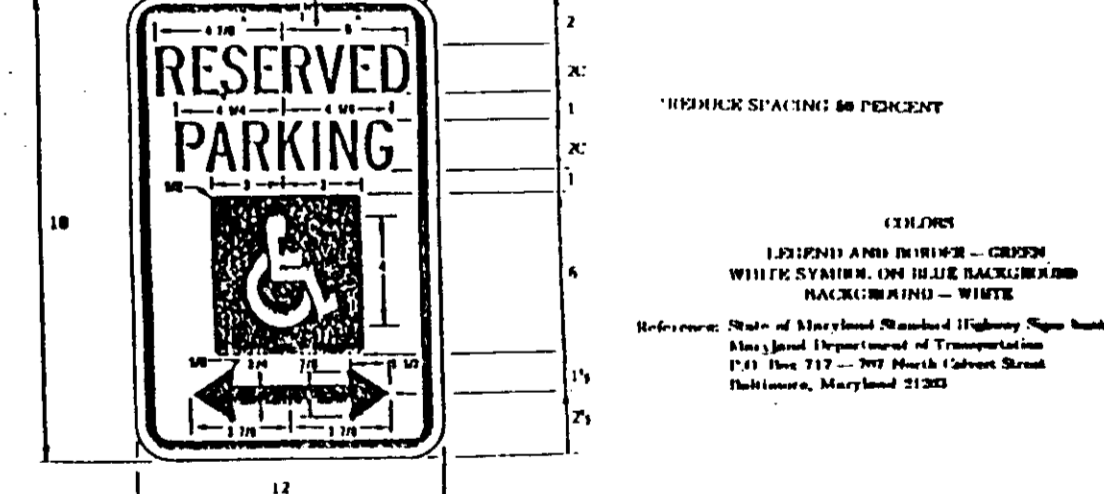
HANDICAPPED PARKING SIGN SPECIFICATIONS

I. Fine Sign:
Pursuant to Howard County Council Bill #58-84, which established a \$50.00 fine for violating provisions for handicapped parking and provided for posting notifications of that fine, this specification describes the sign authorized for posting and the associated mounting detail.



Sign to utilize an aluminum blank 6" x 12" x 0.080 inch thick with two (2) single post mounting holes. The text and border shall be standard green to match the R-7-8 reserved parking sign and the background shall be reflective white. The text shall be 3" characters.

II. Mounting:
The above fine sign shall be mounted underneath the below R-7-8 reserved parking sign. The bottom edge shall be no less than 7 feet above ground. If the sign is placed against a building, structure or other location where vehicle or pedestrian traffic is not obstructed, the bottom edge of the sign shall be at least 6 feet, but no more than 10 feet above ground. Because this is in addition to existing sign installations, some adjustment in height will be necessary.



By the Developer:
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as a Department of the Environment 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.

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

Signature: *William L. Cooper, P.E.* 2-1-97
Date: 2/1/97

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

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

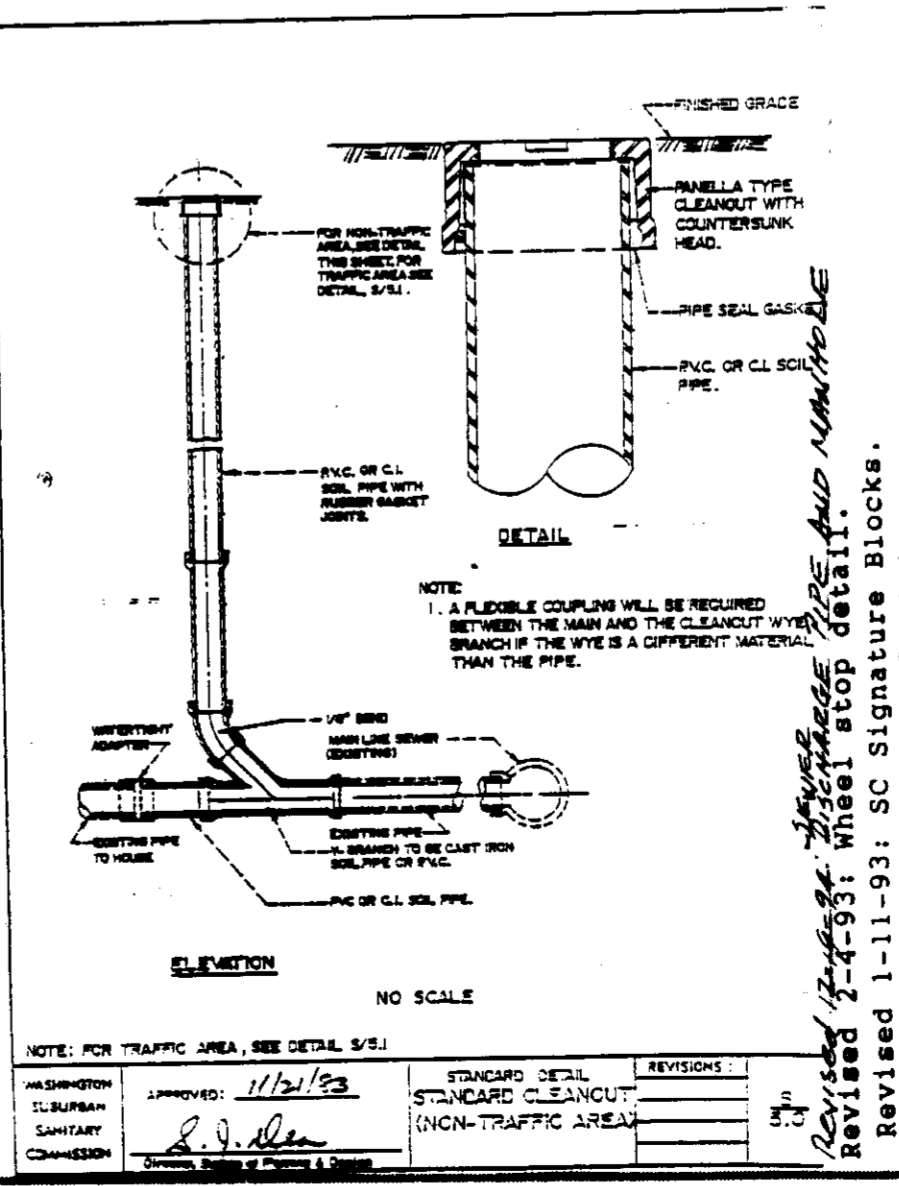
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION SEQUENCE

Day 1	On-site preconstruction meeting with inspectors from Howard County and Realty Engineering, Inc.
Day 2	Initial construction shall be sediment control measures: Stabilized construction entrance, silt fence, and sediment trap/infiltration basin.
Day 9	Inspection and approval by inspectors from Howard County and Realty Engineering, Inc.
Day 10-99	Complete all other construction: grading, vegetative stabilization, highway widening, curb and gutter, entrance, parking lot, building including walk and ramp, landscaping, etc.
Day 100	Inspection and approval by inspector from Howard County and Realty Engineering, Inc.
Day 101	Excavate basin to final grade remove all silt fence, and apply vegetative stabilization to all remaining disturbed areas.

GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County.
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (301) 792-7272 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation.
- Project Background:
Location: Scaggsville, MD. Tax Map: 46. Parcel: 17. Zoning: R-20. Site Area: 3.934 AC. Election District: Sixth. Deed: Liber 940. Folio 142. Census Tract: 6068.02. DPZ Reference: SDP 92-105. Special Exception: BA 92-02E Approved Sept. 1, 1992
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- All plan dimensions are to the face curb unless otherwise noted.
- Boundary survey by Landtech Associates, Inc. Dec. 27, 1991.
- Topographic survey by Realty Engineering, Inc. Oct. 30, 1991.
- Public Water: Code E18 Public Sewer: Code 7550000
- Not in 100 year floodplain according to Federal Emergency Management Agency Panel 42 of 45, Dec. 4, 1986.
- Peak discharges for a 24 hour 2 and 10 year storm are maintained at a level equal to or less than predevelopment discharges.
- No Wetlands on site.
- Scaggsville Road Traffic study and sight distance study were approved by Howard County Sept. 1, 1992 in Special Exception BA92-02E (pages 4 & 5).
- Stormwater management facility will be privately owned and maintained.
- Existing utility locations supplied by the utilities.
- Proposed Use Group: A4 (Assembly, Church) Ref: BOCA 302.5
- Construction Classification: Type 5B (Combustible, unprotected) Ref: BOCA 406.1



2-10-93 Norm. Coop. *Norman J. Cooper* 2/10/93

REVISIONS DATED

MISCELLANEOUS DETAILS/SEWER PROFILE

Laurel Korean Baptist Church
Liber 446 Folio 142
6th Election District, Howard Co.
Tax Map No. 46 Block No. 12 Parcel 17

Site: 10624 Scaggsville Road
Laurel, Maryland 20707
Petitioner: Laurel Korean Baptist Church
811 Fifth Street, Laurel, Maryland 20707
Telephone: (301) 490-8943
Owner: Same

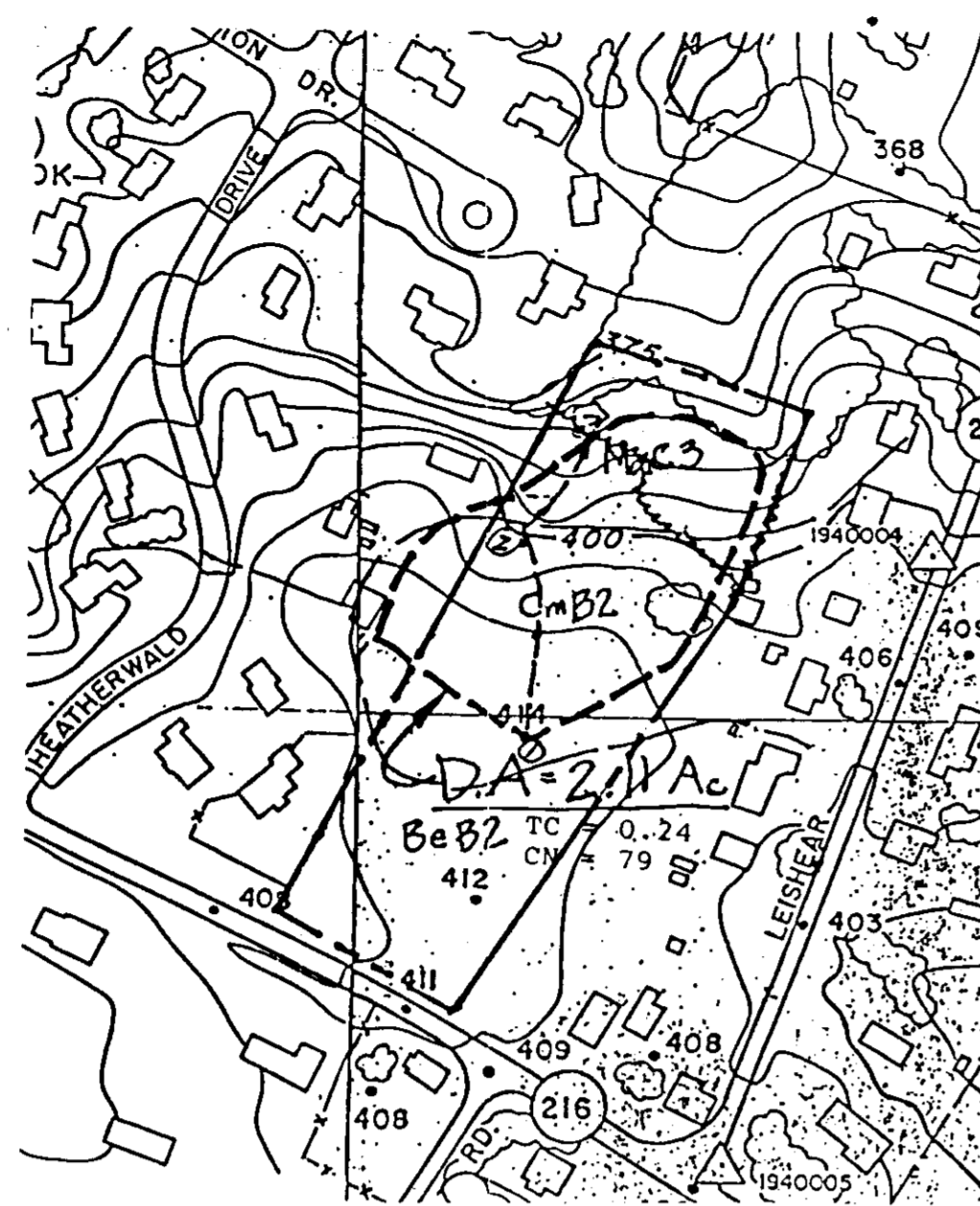
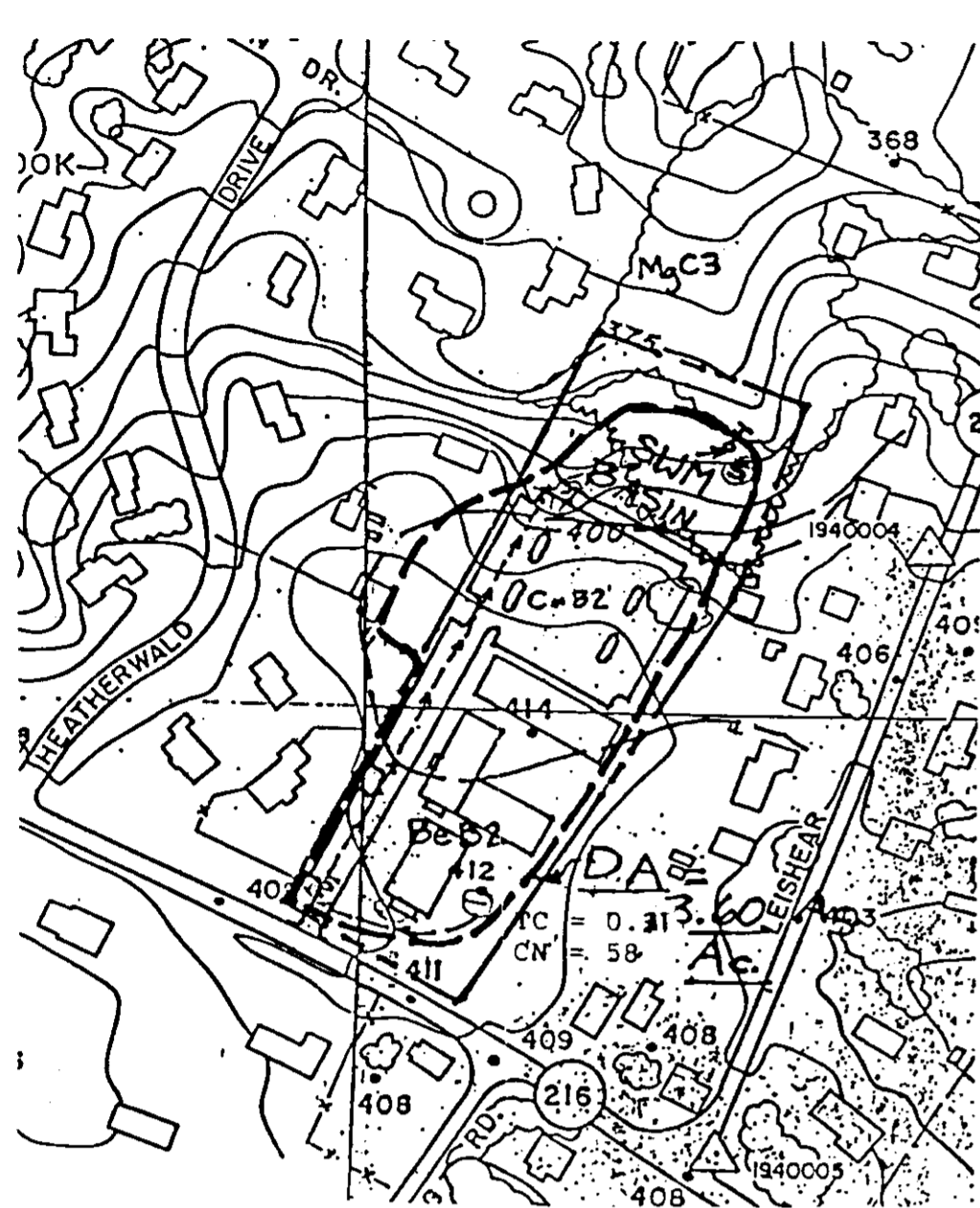
REALT
ENGINEERING, Inc.
14300 Gallant Fox Lane, #212
Bowie MD 20715

Annapolis (301) 741-1111
Baltimore (410) 752-2222
Houston (713) 920-0218
Washington (202) 282-4028

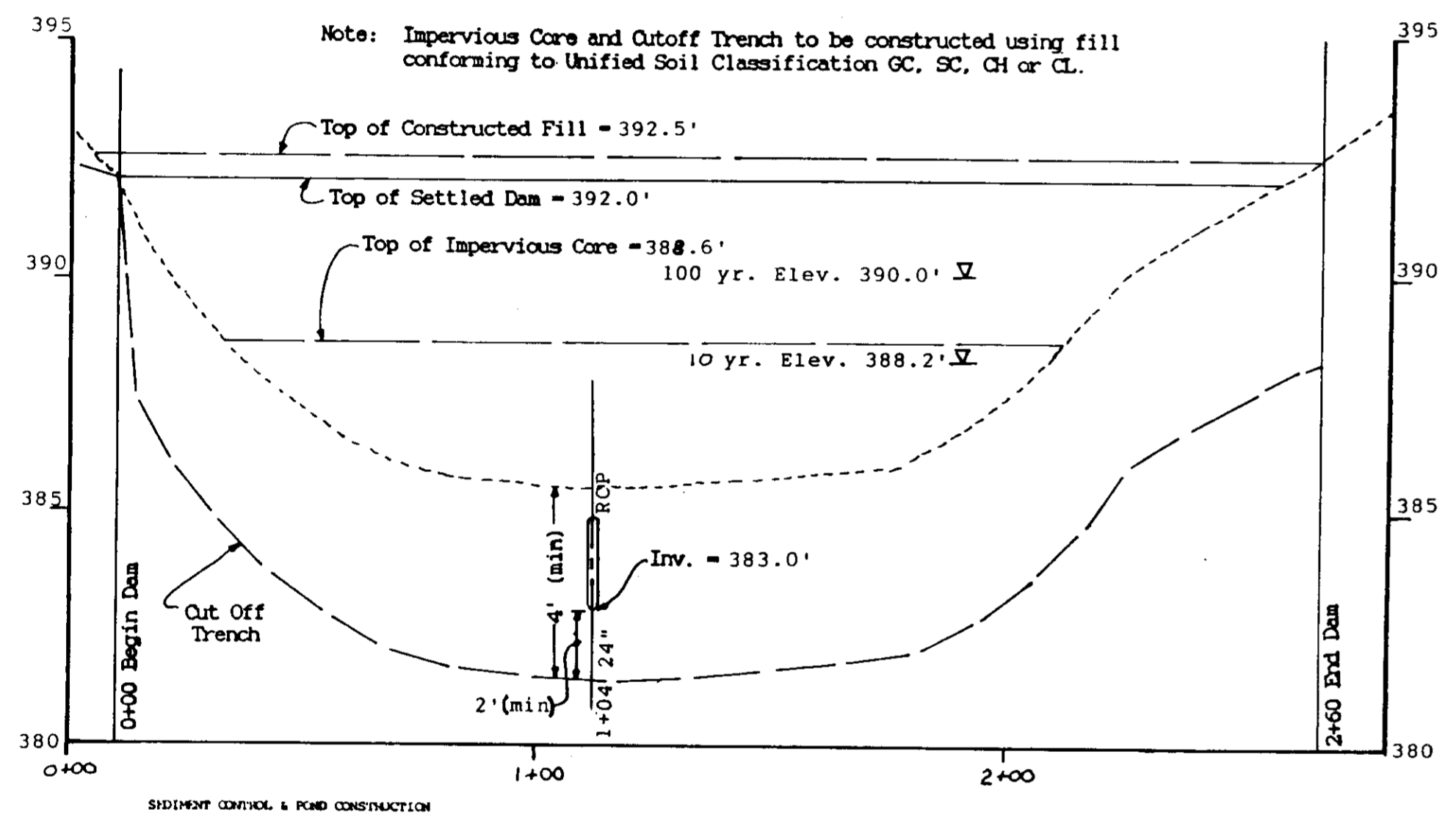
Sheet 3 of 5

Drainage Area Map
Stormwater Management-Proposed Conditions
Scale: 1"=200'

Drainage Area Map
Stormwater Management-Existing Conditions
Scale: 1"=200'



DAM PROFILE A-A
Scale: Horiz. 1"=30'
Vert. 1"=3'



By the Designer:
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 the Environment approved Training Program for the Control of Sediment and Erosion Control Practices.
Signature of Designer: *[Signature]*
Date: 2/14/93

By the Engineer:
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the Howard Soil Conservation District of this plan and authorized periodic on-site inspections by the Howard Soil Conservation District.
Signature of Engineer: *[Signature]*
Date: 2-16-93

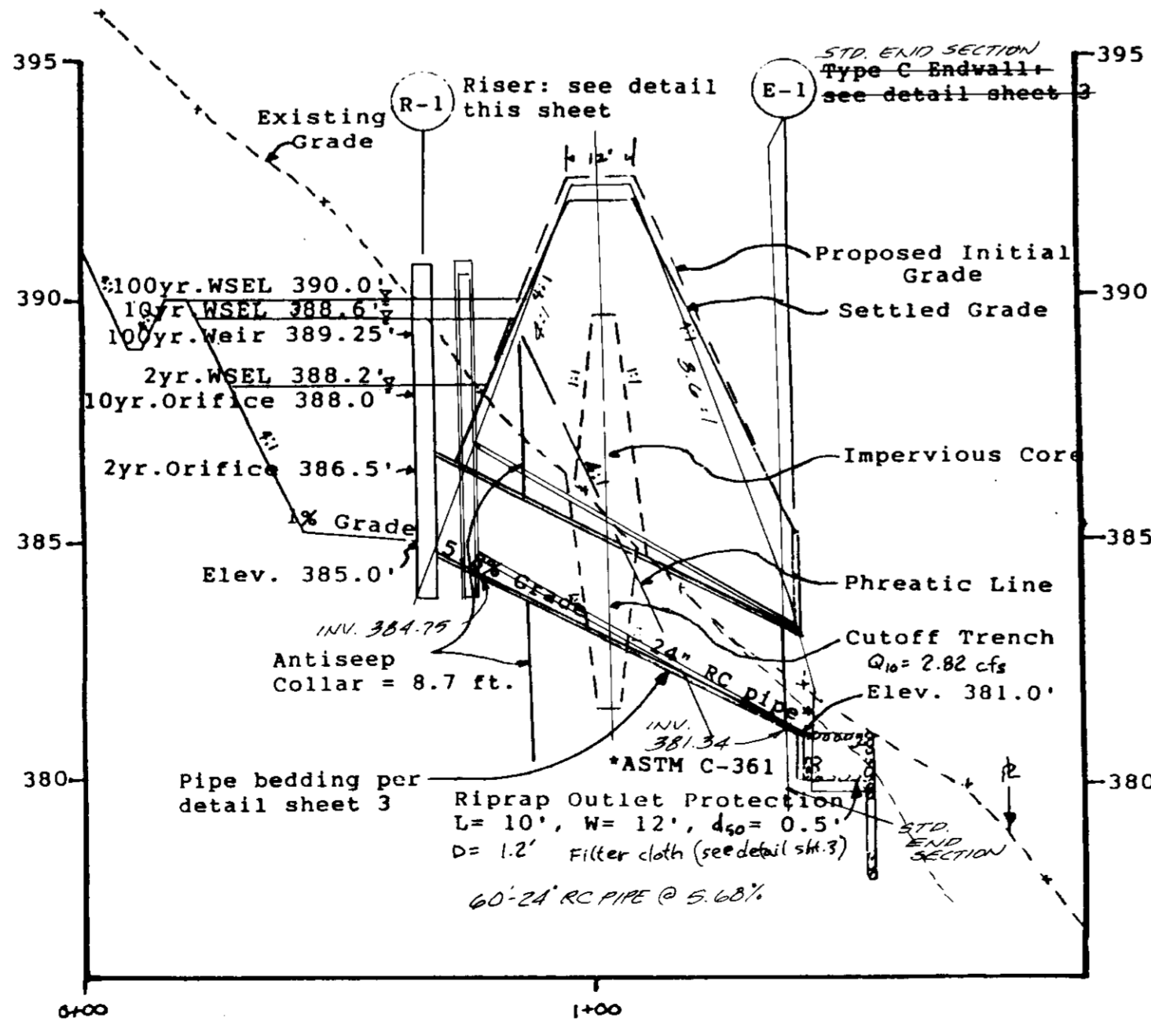
These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
Signature: *[Signature]*
Date: 2/22/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS:
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-28-93

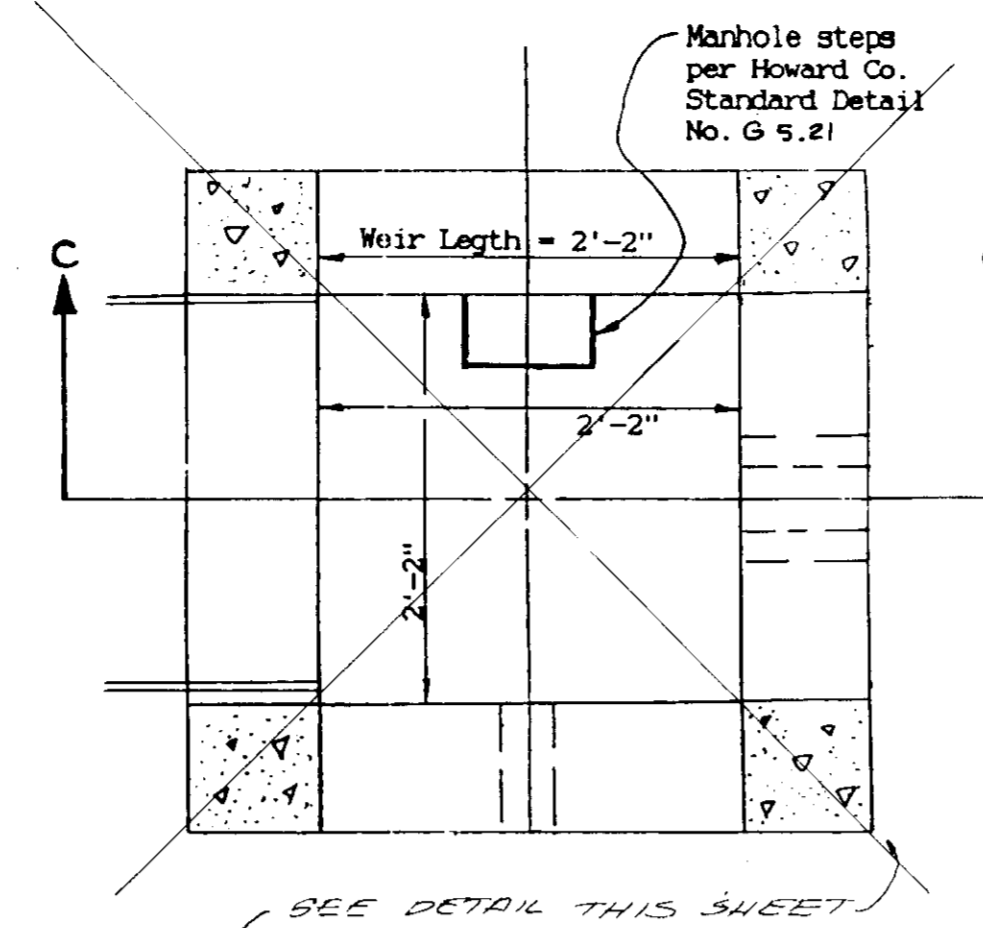
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DATE: 6/30/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6/23/93

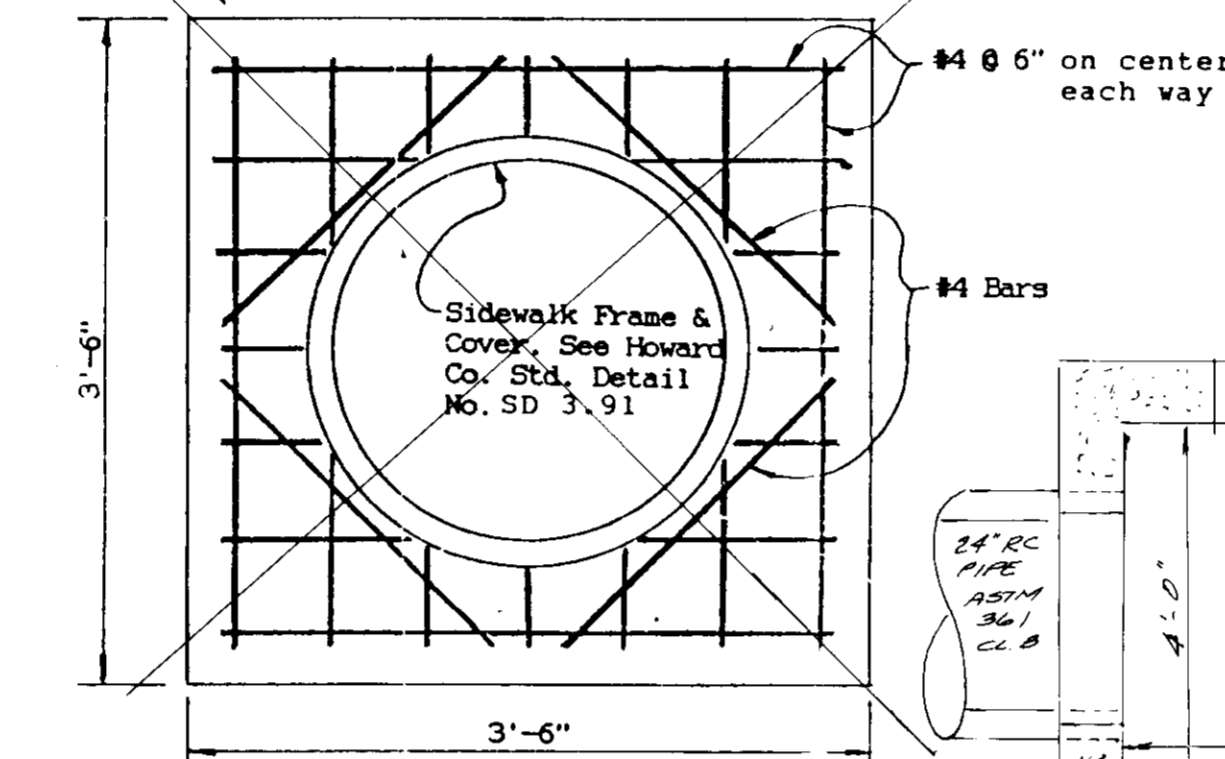
OUTFALL PROFILE B-B
Horiz: 1"=30' Vert: 1"=3'



RISER
PLAN: BELOW SLAB
Scale: 1"=1'



Plan: Top Slab
Scale: 1"=1'

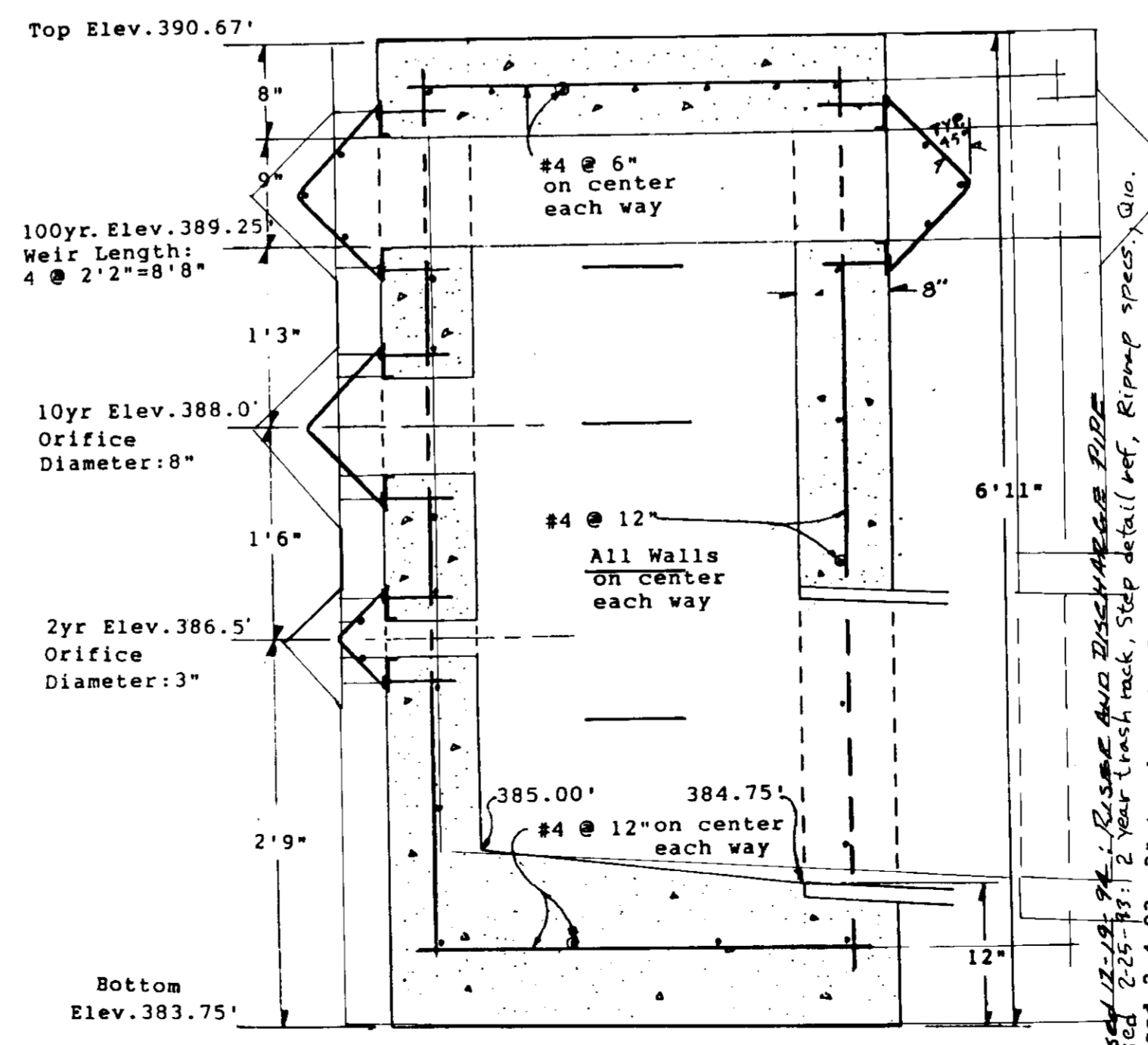


SOIL BORINGS

Test Pit No.	Depth	Soil	Moist	Wet	Color	Notes
Test Pit #1	0'-1'	Tan, dry sandy loam (SK)				
	1'-3'	Red brown moist micaceous silt loam (ML-CL) (Silt)				
	3'-6'	Tan, moist micaceous loam (ML) to sandy loam (SL) (medium dense)				
						Hole Dry 6'
Test Pit #2	0'-4'	Red brown micaceous silt loam (ML-CL)				
	4'-10'	Tan moist micaceous sandy loam (SM)				
						Hole Dry 10'
Test Pit #3	0'-4'	Tan red brown moist silty sand & gravel, some cobbles				
	4'-3'	Tan moist loam (ML)				
	5'-12'	Tan moist micaceous sandy loam (SM)				
						Hole Dry 12'

Laboratory Test Results (Soils & Hydrometry)

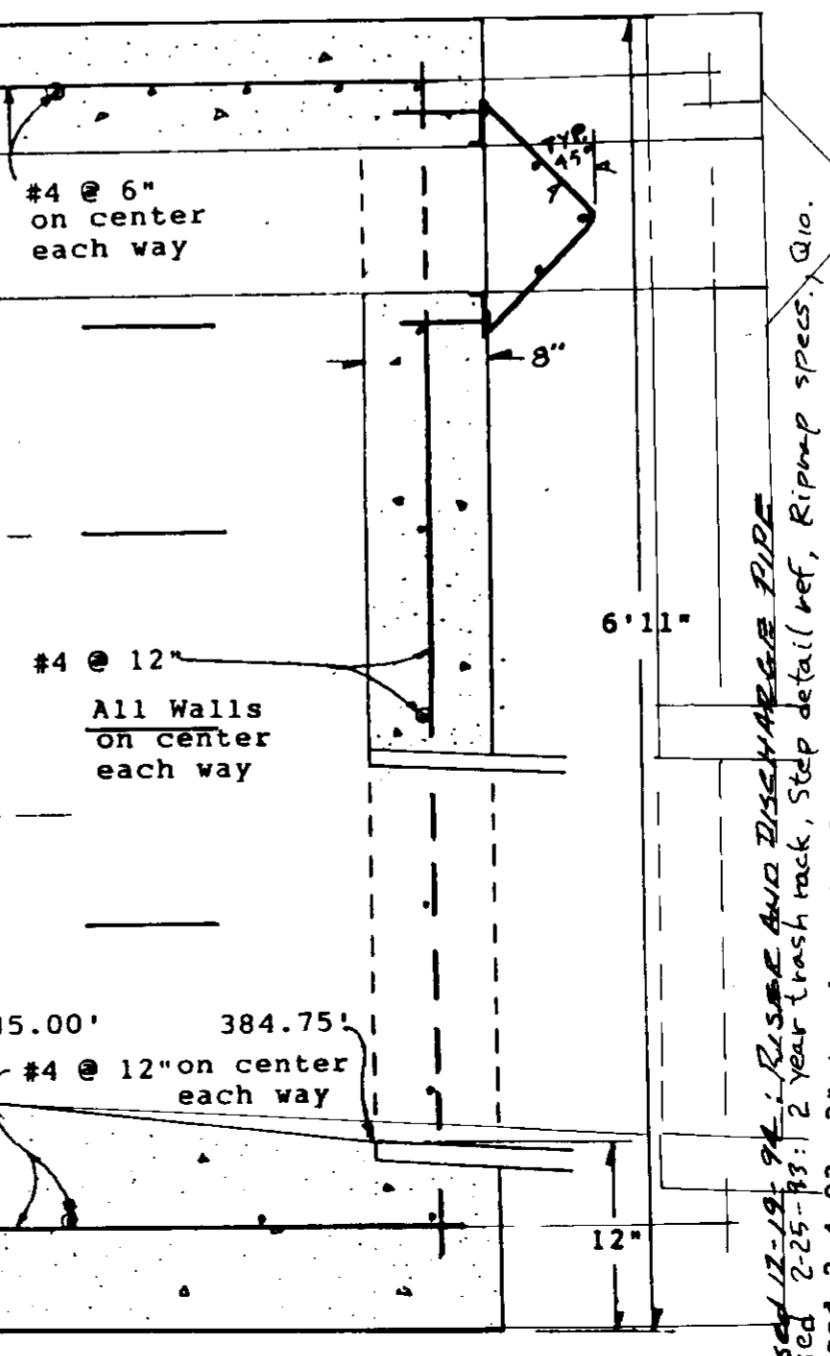
RISER SECTION C-C Scale: 1"=1'



Note: All exposed steel to be galvanized. Provide one grate for each weir opening and for each orifice.

PLAN: TOP SLAB (WITH REINFORCING)

RISER SECTION C-C Scale: 1"=1'



378-12 Pond SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation
Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stumps removed. All trees, vegetation, rocks and other objectionable material shall be removed. Channel banks and silt/grit breaks shall be sloped to no steeper than 1:1.
Areas to be covered by the reservoir will be cleared of all trees, brush, fence, concrete, rubble and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For any stormwater management ponds, a minimum of a 50 foot radius around the riser structure shall be cleared.

Excavation
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.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. 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 between 4 and 9.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-186 or M-211 with watertight coupling bands or flanges. 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 between 4 and 9.

Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection of the embankment shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Grip bands are not considered to be watertight.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which shall be placed in the embankment and length of the fill. The most permeable borrow material shall be placed in the downstream portion of the embankment. The principal splices must be installed concurrently with fill placement and not excavated into 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 track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot roller, tandem or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be tested and certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off Trench - The cutoff trench shall be excavated to impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill
Backfill adjacent to pipe or structures 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 manually directed 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 of pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Pipe Details
All pipes shall be circular in cross section.
Compacted Metal Pipe - All of the following criteria shall apply for compacted metal pipe:
1. Materials - (Steel Pipe) - The pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-180 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipe with polymeric coatings shall have a minimum coating thickness of 0.01 inch (0.1 mil) on both sides of the pipe. The following coating or an approved equal may be used: Neolon, Plast-Gra, Black-Bond, and Best-Cut-Off. Coated compacted steel pipe shall meet the requirements of AASHTO M-245 and M-246.
2. Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. 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 between 4 and 9.
3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection of the embankment shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Grip bands are not considered to be watertight.
4. All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the gasket width. The following type connections are acceptable for pipes less than 48" in diameter: ranges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide huggie type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 48" in diameter and larger shall be connected by a 24" long angular corrugated band using rods and nuts. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".
5. Helically corrugated pipe shall have either continuously welded seams or have lock seams.
6. 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.
7. Backfilling shall conform to "Structure Backfill" as shown on the drawings.
8. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipes - All of the following criteria shall apply for reinforced concrete pipe:
1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-391. An approved equivalent is AWWA Specification C-302.
2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high strength 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 inches, 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 the 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. The first joint shall be located within 2 feet from the riser.
4. Backfilling shall conform to "Structure Backfill" as shown on the drawings.
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Structural Concrete Pipes - All of the following criteria shall apply for structural concrete pipe:
1. Materials - (Steel Pipe) - The pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-180 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipe with polymeric coatings shall have a minimum coating thickness of 0.01 inch (0.1 mil) on both sides of the pipe. The following coating or an approved equal may be used: Neolon, Plast-Gra, Black-Bond, and Best-Cut-Off. Coated compacted steel pipe shall meet the requirements of AASHTO M-245 and M-246.
2. Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. 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 between 4 and 9.
3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection of the embankment shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Grip bands are not considered to be watertight.
4. All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the gasket width. The following type connections are acceptable for pipes less than 48" in diameter: ranges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide huggie type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 48" in diameter and larger shall be connected by a 24" long angular corrugated band using rods and nuts. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".
5. Helically corrugated pipe shall have either continuously welded seams or have lock seams.
6. 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.
7. Backfilling shall conform to "Structure Backfill" as shown on the drawings.
8. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Construction 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.

Stabilization
All borrow areas shall be graded to provide proper drainage and left in a sloping condition. All exposed surfaces of the embankment, gateway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, mulching and mulch in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planning (MD-342) as shown on the accompanying drawings.

Construction 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.

Structural Concrete Pipes - All of the following criteria shall apply for structural concrete pipe:
1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-7185 or ASTM D-2241.
2. Joints and connections to anti-seep collars shall be completely watertight.

2-10-93 Non-2 Corr

REVISIONS:
Revised 2-10-93: 2' trench rack, 24" pipe specs.
Revised 2-11-93: Drainage area Map TC & CN, Top Imp. Slope, 24" pipe bedding, Trash grate SC Slope, 24" pipe bedding, Trash grate SC Slope.
Revised 10-13-92: General Revisions

STORMWATER MANAGEMENT DETAIL SHEET

Laurel Korean Baptist Church
Lib: 142
6th Election District: Howard Co.
Tax Map No. 46 Block No. 12 Parcel 17

Site: 10624 Scaggsville Road
Laurel, Maryland 20707
Petitioner: Laurel Korean Baptist Church
811 Fifth Street, Laurel, Maryland 20707
Telephone: (301) 490-8943
Owner: Same

REALT
ENGINEERING, Inc.
14300 Gallant Fox Lane, #212
Bowie MD 20715

Annapolis (301) 741-1111
Baltimore (301) 792-8722
Houston (713) 830-0818
Washington (202) 282-4038

