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- BR1 Sheet 2 Site Development & S.W.M. Plan
- RR1 Sheet 3 Landscape Plan

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RR1 Sheet 6 @ Sediment Control Plan

Sheet 7 Sediment Control Details

RR1 Sheet 8 Stormwater Management Details

Sheet 9 Stormwater Management Notes

RR1 Sheet 10 • Drainage & Soil Map

PER 3/31/95 COUNTY COMMENTS

PER 7/31/95 COUNTY COMMENTS

PER HEALTH DEPT. COMMENTS

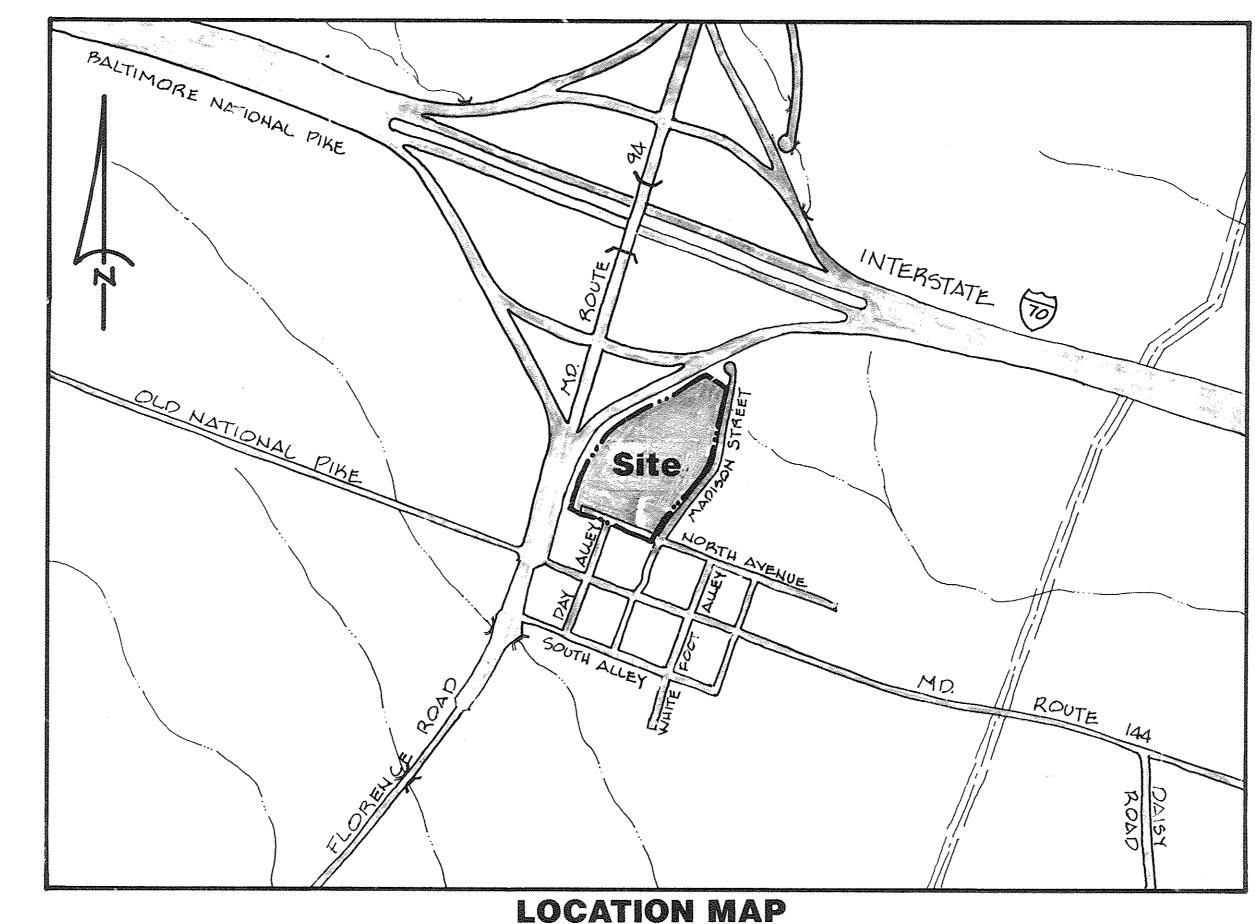
DETAIL FOR HANDICAPPED RAMP

PER HEALTH DEPT. COMMENTS

REDLINE REVISION 1/881)

8/8/95

RR1 SHEET 11 REVISED ASBUILT POND GRADING, DETAILS AND DAMAP



Site Development Plan LIBERTY BAPTIST CHURCH, INC.

SCALE: 1"=600"

SDP 95-79

14. Summary of Special Exception conditions of approval.

3. All exterior lights to be directed downward and inward to not

shine on adjacent properties. 4. Screen southwestern lot line and southeastern corner with

percolation tests and sewage disposal area. 2. The special exception applies to the one story building with

This area designates a private sewage easement as required by Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The county health officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage

property boundaries unless otherwise shown hereon.

1. Comply with all applicable Federal, State and County

vegetative screening and berms. 6. Comply with Bureau of Environmental Health regarding

basement, the 117 space parking lot with lighting, the access drive as submitted on plan dated 7/7/94, and not to any other

5. Construct exterior of the church building of Earth-Tone Brick with an asphalt shingle roof.

easement shall not be necessary.

There are no existing wells and septics within 100' of

No food service facilities are proposed.

VICINITY MAP SCALE: 1"=2000"

GENERAL NOTES

1. SITE ANALYSIS

A. Area of Parcel: 13.399 Acres B. Present Zoning: RC-DEO (Rural Conservation Density **Exchange Option**)

Previous Case Numbers: Board of Appeals Case No. BA 92-05E, Approved 9/11/92;

Modification to Special Exception, BA 94-35E, Approved 11/17/94

C. Proposed use of structure: Religious Facility,

D. Floor space: Upper Level 9,384 square feet

E. Total number of units allowed: N/A

I. Number of parking spaces required: 98 (292 seats \div 3 = 98)

J. Number of parking spaces provided: 112 regular spaces &

K. Open Space on site: 12.068 acres and 90.1% of gross area

L. Area of recreation open space: N/A M. Building coverage of site: 0.215 acres and 1.6% of gross area

N. Paved parking lot/area on site: 1.116 acres and

2. All proposed lighting shall be directed downward and inward onto the

site and away from adjacent properties. 3. All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA Standards and

Specifications, if applicable. 4. The contractor shall notify the Department of Public Works/Bureau of

Construction and Inspection at (410) 313-1880 at least five (5) working days prior to the start of work. 5. The contractor shall notify "Miss Utility" ar 1-800-257-7777 at least

48 hours prior to any excavation work.

6. 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.

7. Light poles and fixtures for street lights shall be in accordance with the latest Howard County Design Manual, Volume III, Roads

8. Any damage to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractors expense.

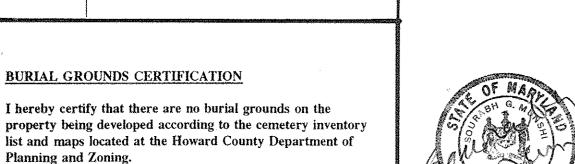
9. The existing utilities shown hereon are located from field surveys and construction drawings of record. The approximate location of existing utilities are shown for the contractors information and convenience. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service.

10. The topography shown hereon is compiled from field run data prepared by Land Design Engineering, Inc., September 1991.

11. Horizontal and vertical datums are related to the Maryland State Plane Coordinate System as projected from Howard County Control Station No. 0031 Stamped PIZZA and No. 07CA

12. The water and sewer systems utilized for this development will be private. Design sewerage flow is 1752 GRD.

13. The wetlands shown are field located from a delineation prepared by Exploration Research, Inc., dated August 1991.



9-14-95



ENGINEER'S CERTIFICATE

Richard form

Richard Barron, Developer Liberty Baptist Church, Inc.

I hereby certify that these plans for small 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Sourably Mung. 8/14/95 The

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 shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic

DEVELOPER'S CERTIFICATE

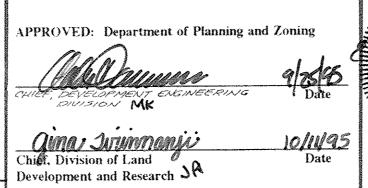
I/We hereby certify that all development and/or construction will

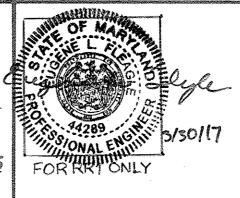
Review for Howard Soil Conservation District and meets technical requirements for small pond construction, soil erosion and sediment control.

l'hese plans for small pond construction, soil erosion and

sediment control meet the requirements of the Howard Soil

APPROVED: Howard County Health Department for private water and private sewerage systems.





ADDRESS CHART PARCEL NO. STREET ADDRESS 503 1200 Madison Street PERMIT INFO CHART OWNER: Liberty Baptist Church, Inc. 1275 North Avenue. Lisbon, Maryland 21765 410/489-4137 TAX ELECT. CENSUS BLOCK ZONE REF. DIST. ZONE RC-DEO 4th 6040 195 WATER CODE SEWER CODE

Title Sheet LIBERTY BAPTIST CHURCH, INC.

Fourth Election District Howard County, Maryland

Previous Submitals: BA 92-05E and SDP 94-19 and BA 94-35E



ASSOCIATES INC Engheers Shrovers Pamers 319 South Main Score (O. Box 3)8 Morest Airy Maryland 21271 und Mar anns chair ha a constituin 240 1201 fax (hite ha 200) SCALE:

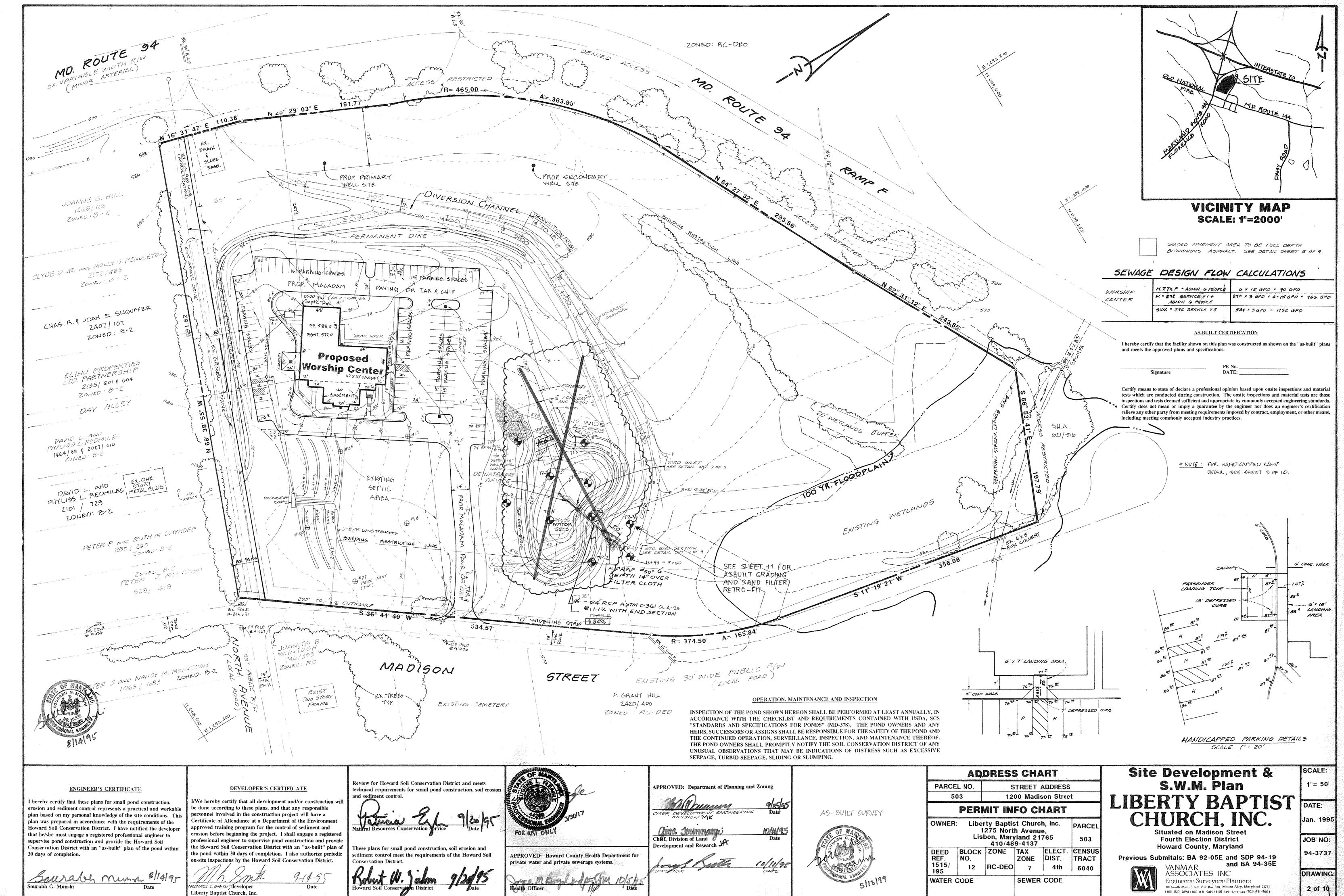
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JOB NO:

94-3737

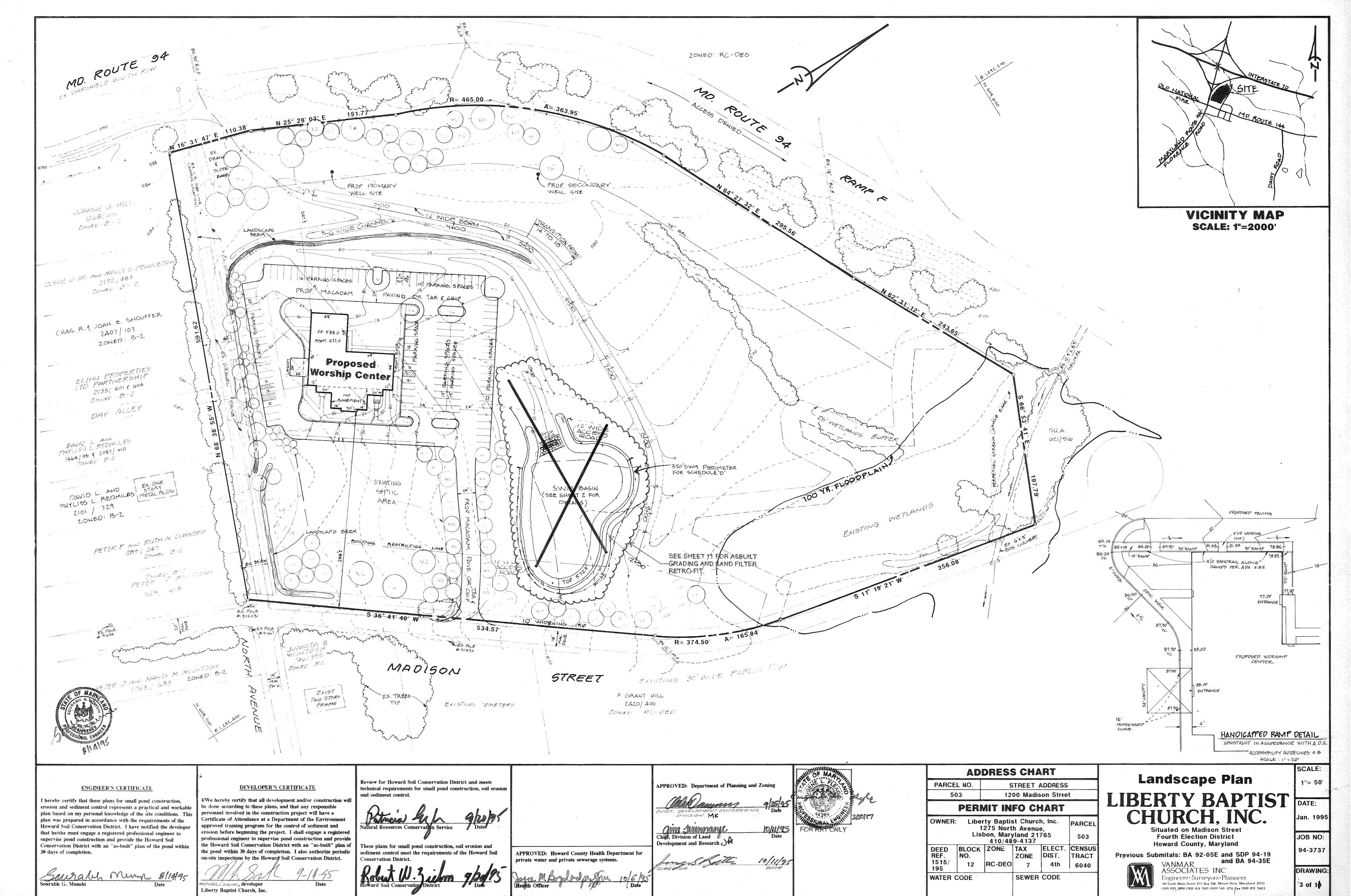
DRAWING

1 of 10



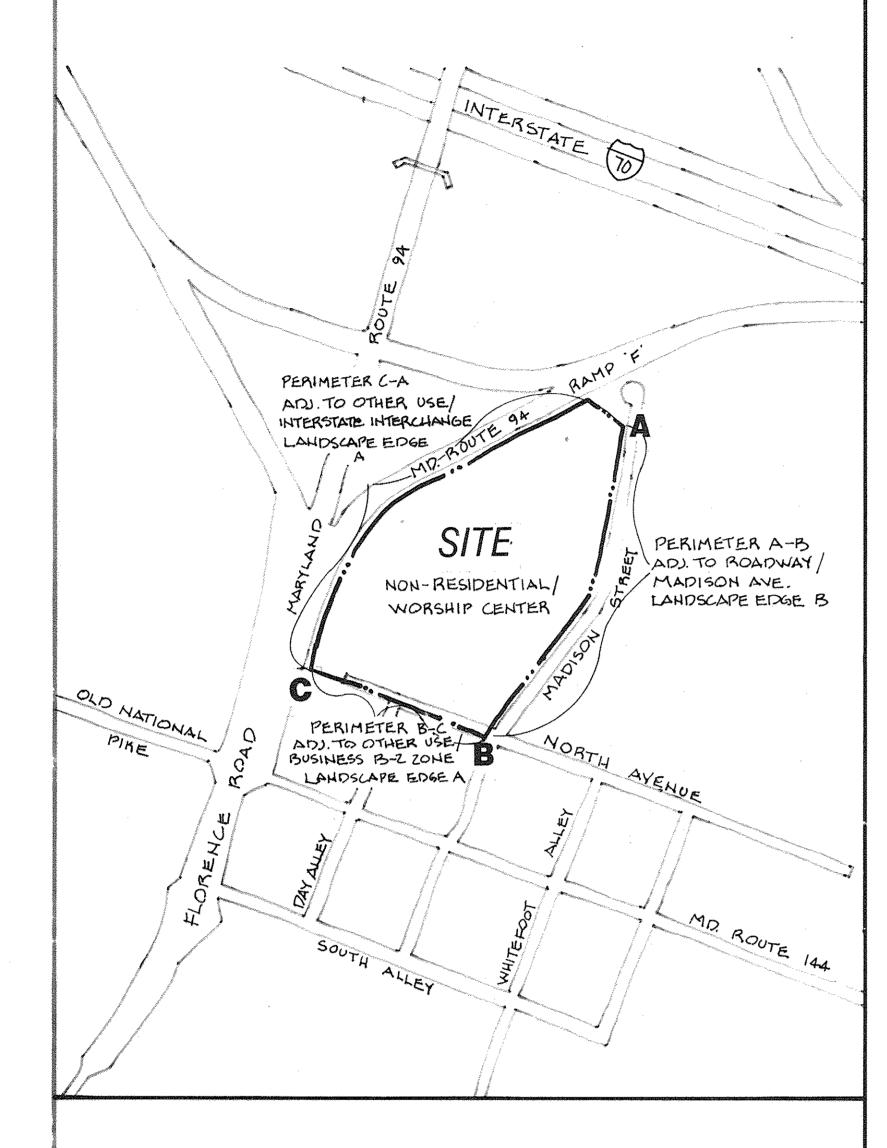
5) Fax (301) 83(-5603) 2

5) DP-95-79



SDP-95-79

PERIMETER LANDSCAPE EDGE MAP



NOTES

- All plant material shall comply with American Standards for Nursery Stock (American Association of Nurseryman) and installation shall be as specified in the Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas. All plant material shall include a one year warranty.
- This site is exempt from the Forest Conservation Ordinance per Section 16.1202(b)(2)(i), whereby "the following development is exempt from the requirements of this subtitle, provided that the developer files a Declaration of Intent with the Department as provided in Section 16.1202(c)...development on a single lot of any size and the total cutting, clearing or grading of forest resources is less than 40,000 square feet, and forest resources affected by the development are not subject to a previously approved Forest Conservation Plan."
- A Declaration of Intent was submitted to the Division of Land Development and Research on March 4, 1994. The Declaration of Intent was signed by Richard Barron on February 28, 1994.
- This plan has been prepared in accordance with Section 16.124 of Howard County Code and the Landscape Manual. Financial surety for the required 83 landscaping will be posted as part of the DPW Developer's Agreement in the amount of $\$8.300.\infty$.
- A final dated certification that the planting has been completed in accordance with the approved plan, and shall be submitted by the applicant to the Office of Planning and Zoning. The inspection shall take place within two (2) weeks of submittal of certification.

SCHEDULES

SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways		ent to Properties
Landscape Type	В	А	A
Linear Feet of Roadway Frontage/Perimeter	Perimeter A-B 1056'	Perim.B-C 592'	PerimC-A 1403'
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	* Yes 356'	Но	** Yes 282'
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	Ho	40	40
Number of Plants Required Shade Trees Evergreen Trees Shrubs	Het 700' 14 18	592' 10	Het 1121' 19
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	3 18 22 22 Sm. Decid Trees for 11 Sh. Trees	4 16 20 16 EU.Tr. for 8 Sh.Tr. 20 Shr. for 2 Sh.Tr.	20 20 Sm. Dex. Trees for 10 Shade Tr.

Comments * Credit for 356 of existing wetlands.

** Credit for 282' of existing wetlands.

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	117	
Number of Trees Required	6	
Number of Trees Provided Shade Trees Other Trees (2:1 substitution)	6	

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

Linear Feet of Perimeter	350' (See Sheet 3)
Number of Trees Required Shade Trees Evergreen Trees	7 9
Credit for Existing Vegetation (No, Yes and %)	No
Credit for Other Landscaping (No, Yes and %)	Yes, 100%, utilizing perimeter plantings provided for Perimeter Landscape Edge A-B
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	3 9 8 sm. dec. trees for 4 shade trees



PLANT LISTS

PLANT LIST

Key	Quanity	Common Name Botanical Name	Size	Condition
WD	22	Hhite Flowering Dogwood Cornus Florida / White	8'-10'	ht.
WP -	12	White Pine Pinus strobus	6'-8'	ht.
JP	6	Japanese Black Pine Pinus thunbergiana	6-8	ht.
VZ	2	Village Green Zelkova Zelkova scrvata Village Green	21/2-3"	cal.
TH		Imperial Thornless Hongylowst Gleditsia triacanthos 'Imperial'	21/2-3"	cal.
Landso	ape Condi	ition: PERIMETER LANDSCAPE E	DGE B-	<u> </u>
		Common Nama		

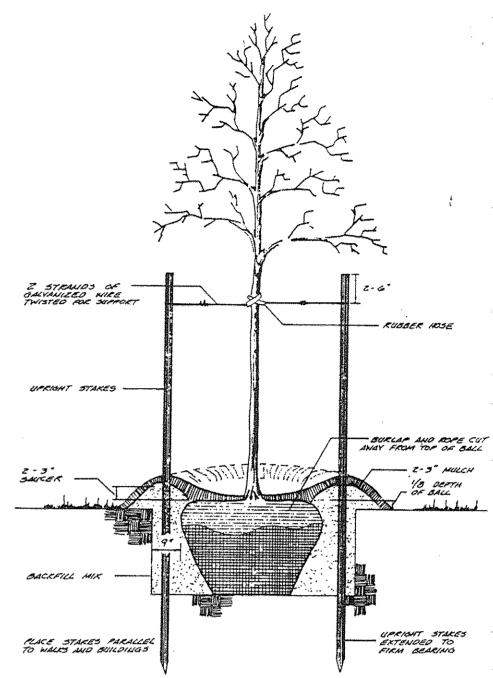
Key	Quanity	Common Name Botanical Name	Size	Condition
WP	10	White Pine Pinus strobus	6-8	ht.
JP	5	Japanese Black Pine Pinus thunbergiana	6-8'	ht.
LC	5	Leyland Cypress Cuppressocy Davis leylandi	5-6	ht.
LV	14	Leatherleaf Viburnum Viburnum rhytidophyllum	21/2-3'	ht.
ML	6	Mountain Laurel Kalmig latifolia	21/2-3'	ht.
MQL 201 1000000 10 10 1				Parameter de l'action de l'act

Key	Quanity	Common Name Botanical Name	Size	Condition
BM	3	Red Sunset Red Maple Acer volarum 'Red Sunset'	21/2-3"	cal.
TH	3	Imperial Thornless Honeylocust Gleditsia triancanthos Imperial	21/2-3"	cal.
VZ	3	Village Green Zelkoua Zelkova servata Village Green'	21/2-3"	cal.
OW	7.	White Flowering Dogwood Cornus Florida/White	8-10'	ht.
KD	00	Kousa Dogwood (ornus Kousa	8/10'	ht.
55	5	Shadblow Sewiceberry Amelanchier canadensis	840'	ht.

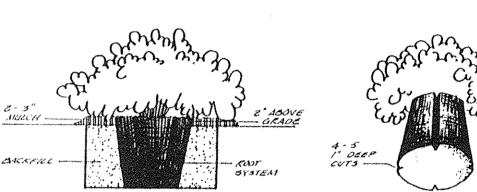
Key	Quanity	Common Name Botanical Name	Size	Conditio
TH	6	Imperial Thornless Honeylocost Gleditsia triancanthos' Imperial'	22-3"	cal.
				

LANDSCAPE TREES TOTAL 98 PLUS 20 SHRUBS

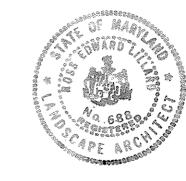
PLANTING DETAILS



TYPICAL UPRIGHT STAKING DETAIL (N.T.S.)



TYPICAL CONTAINER - GROWN PLANTING DETAIL



This plan has been prepared in accordance with Section 16.124 of Howard County Code and the Landscape Manual. Financial surety for the required 83 TREE5 will be posted as part of the DPW Developer's Agreement in the amount of $\$8,300.\infty$.

ENGINEER'S CERTIFICATE

I hereby certify that these plans for small 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

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Review for Howard Soil Conservation District and meets technical requirements for small pond construction, soil erosion and sediment control.

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

APPROVED: Howard County Health Department for private water and private sewerage systems.

APPROVED: Department of Planning and Zoning MUNICIPALITY ENGINEERING DIVISION MK Gin. Immone Chlef, Division of Land 🕖 Development and Research

ADDRESS CHART PARCEL NO STREET ADDRESS 1200 Madison Street **PERMIT INFO CHART** OWNER: Liberty Baptist Church, Inc. 1275 North Avenue. Lisbon, Maryland 21765

PARCEL 410/489-4137 BLOCK ZONE TAX ELECT. CENSUS ZONE DIST. TRACT 1515 12 RC-DEO 7 195 WATER CODE SEWER CODE

Landscape Details

LIBERTY BAPTIST CHURCH, INC.

Situated on Madison Street Fourth Election District Howard County, Maryland

Previous Submitals: BA 92-05E and SDP 94-19 and BA 94-35E ASSOCIATIS INC.



SCALE

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94-3737

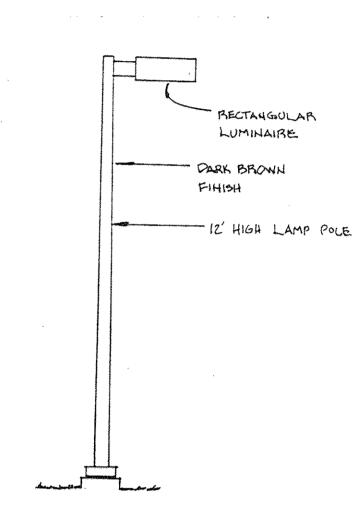
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4 of 10



ALL DIMEHSIONS FOR SIGH IN INCHES. LEGEND & BORDER IN GREEN. WHITE STABOL OH BLUE BACKGROUND. BACKGROUND IN WHITE.

HANDICAPPED SIGN N.T.S.

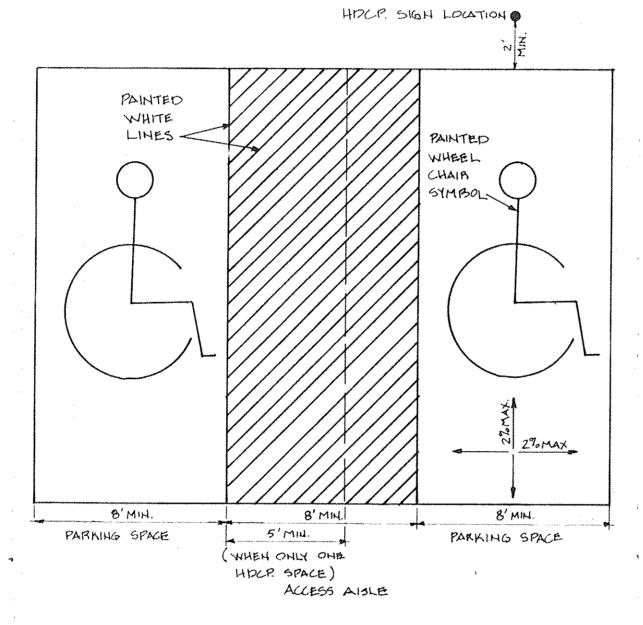


TYPICAL LIGHT FIXTURE

290 MAX. CROSS SLOPE 5% MAX. LONGITUDINAL

- 1. SIDEWALK TO BE SCRIBED IN 5 FOOT MAXIMUM SQUARES. 2. EXPANSION JOINTS NOT TO BE MORE THAN 15' APART.
- 3. ONE-HALF INCH PREFORMED BITUMINUUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.

TYPICAL SIDEWALK



TYPICAL HANDICAPPED PARKING

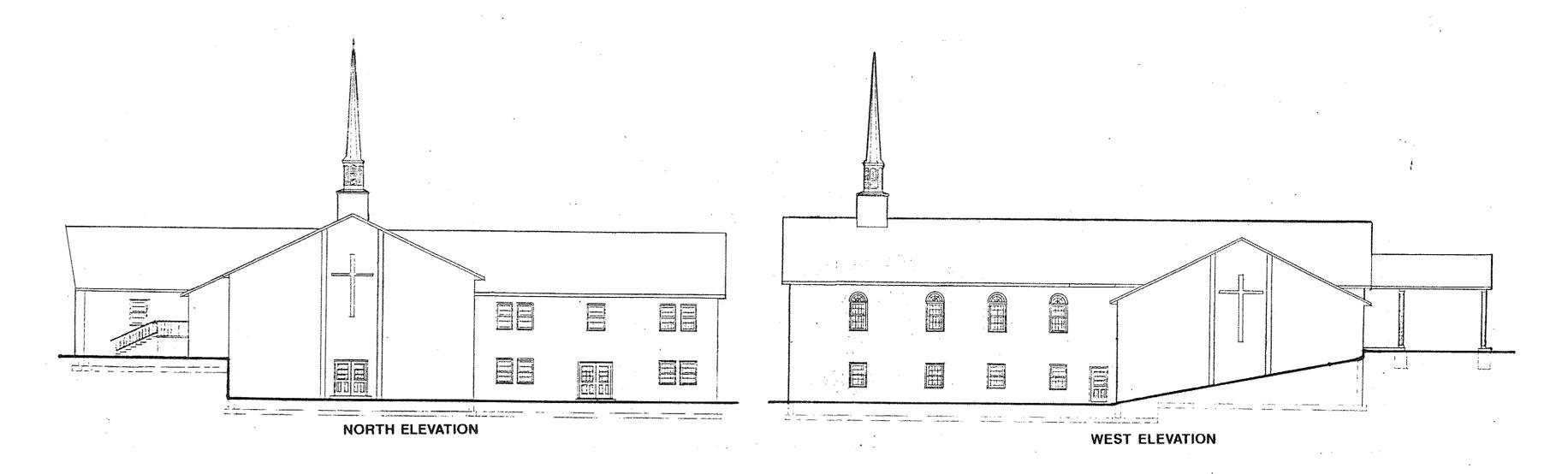
SECTION	ROAD AND STREET	PAVEMENT N	MATERIALS	DENSE GRADED STABILIZED
NUMBER	CLASSIFICATION	FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES	AGGREGATE WITH DOUBLE SURFACE
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL— INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCK	I" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE PRIME 5" CRUSHER PUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE	I" DOUBLE SURFACE OVERLAY COURSE 6" GRANEL BASE COURSE

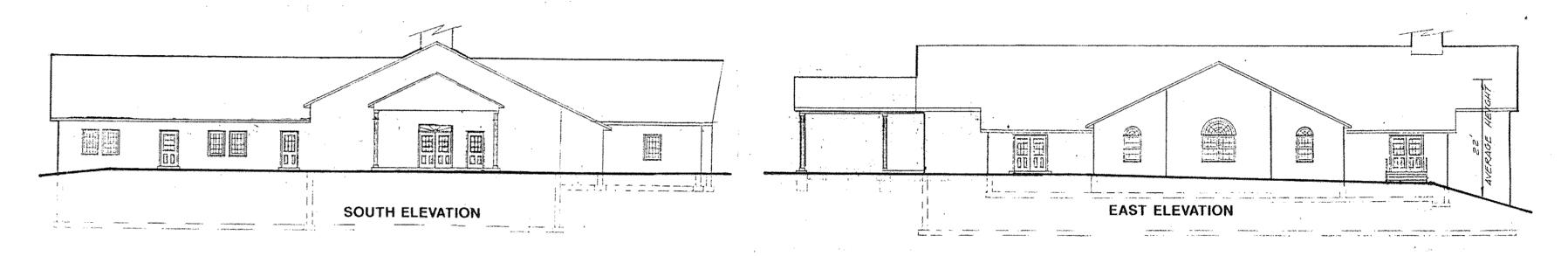
DRIVEWAY & PARKING



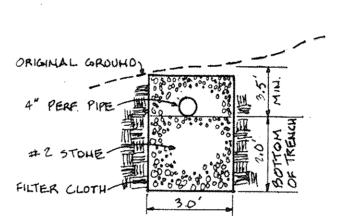
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	BEGINNIN	G TRENCH		END TRENCH			
NUMBER	EXISTING GRADE	PIPE INVERT	TRENCH BOTTOM	EXISTING GRADE	PIPE 4NVERT	TRENCH BOTTOM	LENGTH
1	585.30	581.80	579.60	585.30	581.60	579.60	75'
2	584.60	581.10	578.90	585.20	580.9	578.90	75'
3	584.80	581.30	579.10	543.70	581,10	579.10	75'
4	584.40	580.90	578.70	584.20	580.70	578.70	75'
5	584.30	580.80	578.20	584.70	580.60	578.20	75,
6	583.80	580.30	578.10	583.60	580.10	578.10	75'
7	583.50	580.00	571.80	583.30	579.80	577.80	75'
8	583.00	579.50	577.30	583.00	579.30	577.30	75'





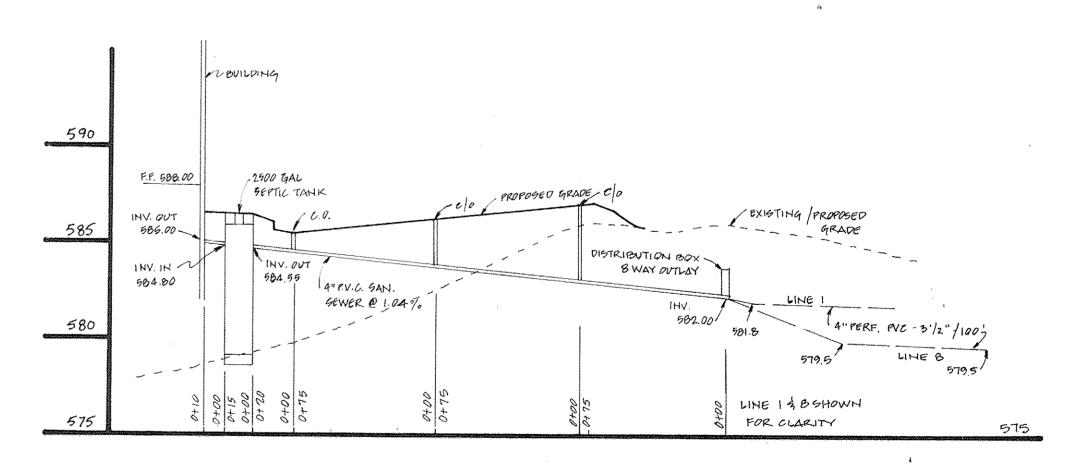
BUILDING ELEVATIONS



NOTE: TRENCHES TO BE PLACED 10.0' ON CENTER ALONG EXISTING GRADE CONTOUR 100' MAX. LEHGTH.

TYPICAL SEPTIC TRENCH DETAIL

		SIGN DATA	2-2		
TRENCH			END T	RENCH	
IPE NVERT	TRENCH BOTTOM	EXISTING GRADE	PIPE INVERT	TRENCH BOTTOM	LENGTH
81.80	579.60	585.30	581.60	579.60	75'
81.10	578.90	585.20	580,9	578.90	75'
81.30	579.10	543.70	581.10	579.10	75'
180.90	578.70	584.20	580.70	578.70	75'
80.80	578.20	584.70	580.60	578.20	75'
80.30	578.10	583.60	580.10	578.10	75'
80.00	571.80	583.30	579.80	577.80	75'
79.50	577.30	583.00	579.30	577.30	75'



SEPTIC SYSTEM PROFILE

SCALE : VERT : 1" = 5"

ENGINEER'S CERTIFICATE

I hereby certify that these plans for small 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

DEVELOPER'S CERTIFICATE

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Liberty Baptist Church, Inc.

Review for Howard Soil Conservation District and meets technical requirements for small pond construction, soil erosion

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

APPROVED: Howard County Health Department for private water and private sewerage systems.

APPROVED: Department of Planning and Zoning Millaum CHIEF, DEVELOPMENT ENGINEERING Qina Jummanyi. Chid. Division of Land Development and Research

ADDRESS CHART PARCEL NO STREET ADDRESS 503 1200 Madison Street PERMIT INFO CHART

OWNER: Liberty Baptist Church, Inc. PARCEL 1275 North Avenue. Lisbon, Maryland 21765 410/489-4137 DEED BLOCK ZONE TAX ELECT. CENSUS REF. ZONE DIST. TRACT 1515/ 4th 6040 12 RC-DEO 195

SEWER CODE

WATER CODE

Site Details

LIBERTY BAPTIST CHURCH, INC.

Situated on Madison Street Fourth Election District Howard County, Maryland

Previous Submitals: BA 92-05E and SDP 94-19 and BA 94-35E



ASSOCIATES INC.

DRAWING 5 of 1

SCALE

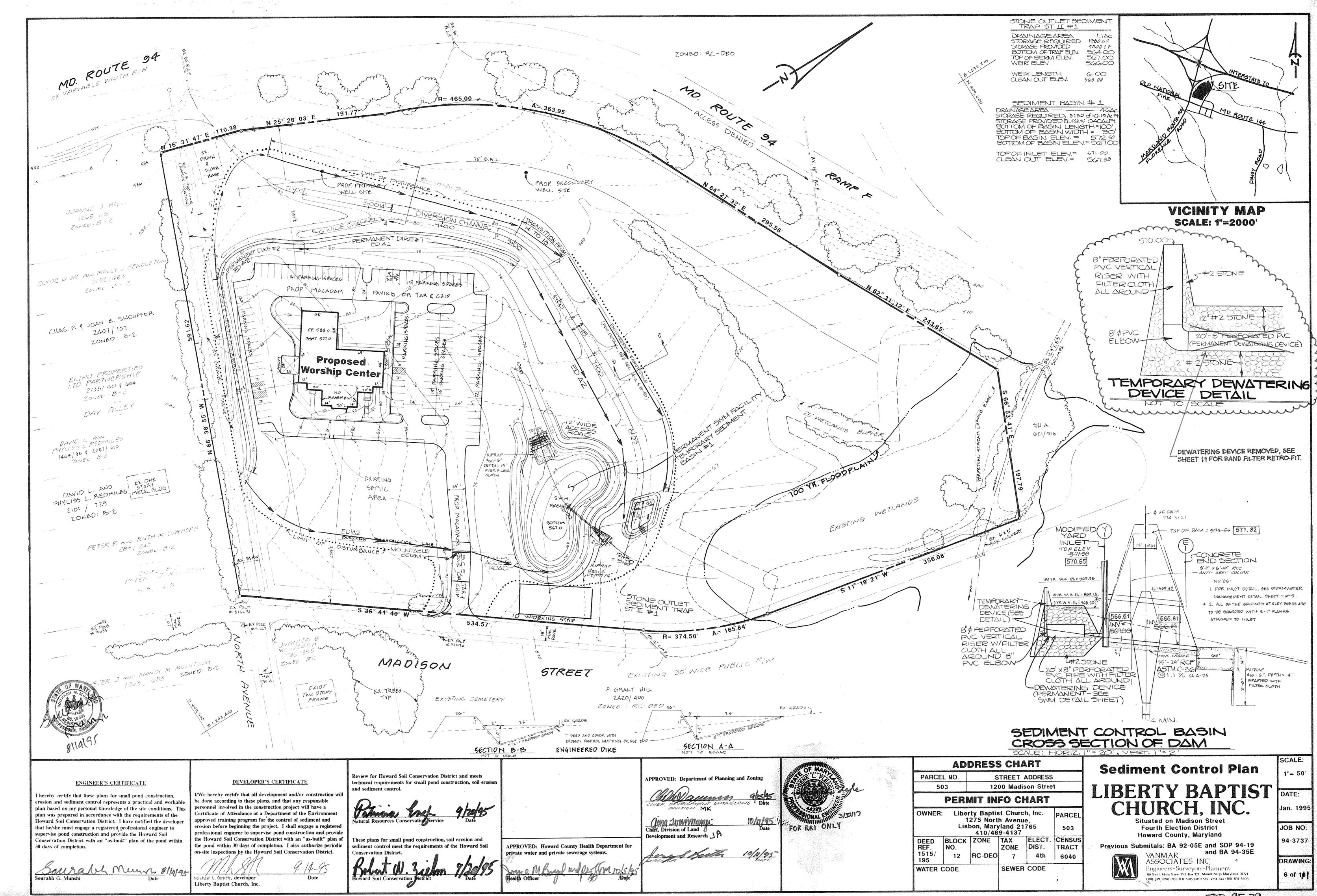
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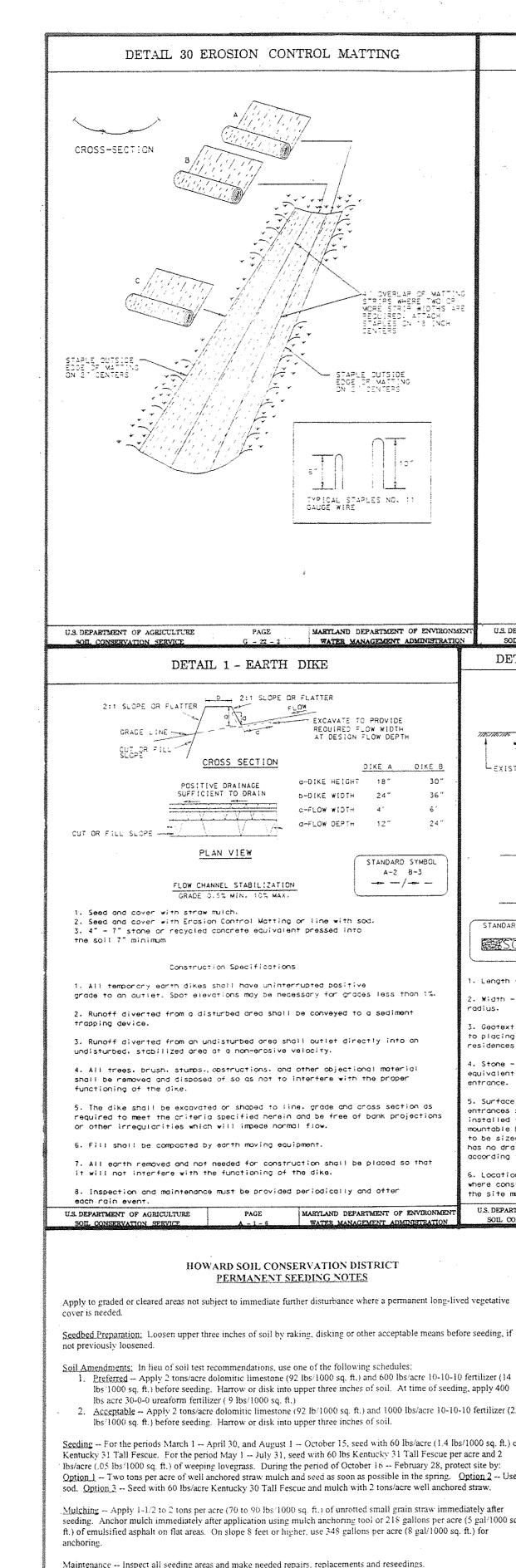
JOB NO:

94-3737

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SDP_95-79



Construction Specifications

EROSION CONTROL MATTING

1. Key-in the matting by piccing the top ends of the matting in a normswittenen. δ'' in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of stoples about 4" down slope from the tranch. Specing between stoples is

3. Stople the 4" over:cp in the channel center using an 18" spacing Detween shoples.

3. Before stopping the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.

4. Stoples shall be blaced 2' apart with 4 rows for each strip. 2 outer rows. and 2 differnating rows down the center. 5. Where one note of matting engs and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4". ship:ap fashion. Reinforce the overlap with a double row of stables

MARYLAND DEPARTMENT OF ENVIRONME

3ERM (6" MIN.)

- EARTH FILL

PIPE AS NECESSARY

WATER MANAGEMENT ADMINISTRATION

spaced 6" apart in a staggered pattern on either side. 6. The disancrge end of the matting liner should be similarly

secured with 3 double rows of stopies. Note: If flow will enter from the edge of the matting then the crea effected by the flow must be keyed-in.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

STRUCTURE

PROFILE

10, MINIMOM SEE

PLAN VIEW

. Length - minimum of 50' (*30' for single residence lot).

Construction Specification

Width - 10' minimum, should be flored at the existing road to provide a turning

Geotextile fabric (filter cloth) shall be placed over the existing ground prior

o placing stone. **The plan approval authority may not require single family

. Surface Water - all surface water flowing to or diverted toward construction

entrances shall be piped through the entrance, maintaining positive drainage. Pip

nstalled through the stabilized construction entrance shall be protected with a

mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe ha

to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized

according to the amount of runoff to be conveyed. A 6" minimum will be required-

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving

the site must travel over the entire length of the stabilized construction entrance

. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete

equivalent shall be blaced at least 6" deep over the length and width of the

MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

** GEDTEXTILE GLASS 'C' OR BETTER

LEXISTING GROUND

STANDARO SYMECU

BASCE類

residences to use geotextile.

U.S. DEPARTMENT OF AGRICULTURE

Site Preparation Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and

apply to the most recent version.

SPECIFICATIONS

These specifications are appropriate to all ponds

within the scope of the Standard for practice MD-378.

all trees, brush, logs, fences, rubbish and other determined by AASHTO Method T-99. objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut <u>Cut Off Trench</u> - The cutoff trench shall be excavated approximately level with the ground surface. For dry into impervious material along or parallel to the centerline stormwater management ponds, a minimum of a 50 of the embankment as shown on the plans, The

All cleared and grubbed material shall be disposed of width being four feet. The depth shall be at least four outside and below the limits of the dam and reservoir — feet below existing grade or as shown on the plans. as directed by the owner or his representative. When ___ The side slopes of the trench shall be 1 to 1 or flatter. specified, a sufficient quantity of topsoil will be stockpiled. The backfill shall be compacted with construction in a suitable location for use on the embankment and equipment, rollers, or hand tampers to assure maximum other designated areas.

Earth Fill

Material - The fill material shall be taken from approved Backfill adjacent to pipes or structures shall be of the are supervised by a geotechnical engineer.

layers which are to be continuous over the entire structure or pipe length of the fill. The most permeable borrow material shall be placed in the downstream portions of the Pipe Conduits embankment. The principal spillway must be installed concurrently with fill placement and not excavated. All pipes shall be circular in cross section. into the embankment,

<u>Compection</u> - The movement of the hauling and shall apply for corrugated metal pipe: 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 All references to ASTM and AASHTO specifications 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.

stripped of topsoil. All trees, vegetation, roots and Where a minimum required density is specified, it shall other objectionable material shall be removed. Channel not be less than 95% of maximum dry density with a banks and sharp breaks shall be sloped to no steeper moisture content within $\pm 2\%$ of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at Areas to be covered by the reservoir will be cleared of the time of construction. All compaction is to be

foot radius around the inlet structure shall be cleared. bottom width of the trench shall be governed by the equipment used for excavation, with the minimum density and minimum permeability.

Structure Backfill

designated borrow areas. It shall be free of roots, type and quality conforming to that specified for the stumps, wood, rubbish, stones greater than 6*, frozen adjoining fill material. The fill shall be placed in horizontal or other objectionable materials. Fill material for the layers not to exceed four inches in thickness and center of the embankment and cut off trench shall compacted by hand tampers or other manually directed conform to Unified Soil Classification GC, SC, CH, or compaction equipment. The material needs to fill CL. Consideration may be given to the use of other completely all spaces under and adjacent to the pipe. materials in the embankment if design and construction — 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. Placement - Areas on which fill is to be placed shall be Under no circumstances shall equipment be driven scarified prior to placement of fill. Fill materials shall be over any part of a concrete structure or pipe, unless placed in maximum 8 inch thick (before compaction) there is a compacted fill of 24* or greater over the

Compared Metal Pipe - All of the following criteria

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 or an approved equal may be

used: Nexon, Plasti-Cote, Blac-Klad, and Beth-

Cu-Loy. Coated corrugated steel pipe shall meet

the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - This

watertight coupling bands or flanges. Any aluminum

Materials - (Aluminum Pipe) - This pipe and its

of AASHTO Specification M-196 or M-211 with

watertight coupling bands or flanges. Aluminum

appurtenances shall conform to the requirements

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

2. Coupling bands, anti-seep collars, end sections,

materials at least 24 mils in thickness.

the pipe. Metals must be insulated from dissimilar

Connections - All connections with pipes must be

completely watertight. The drain pipe or barrel

onnection to the riser 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. Dimple

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

The following type connections are acceptable for

of corrugations to accommodate the band width

bands are not considered to be watertight.

shall be between 4 and 9.

coating damaged or otherwise removed shall be

end of each pipe for a total of 24°. Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered. pipe and its appurtenances shall conform to the all such material shall be removed and replaced requirements of AASHTO Specification M-274 with with suitable earth compacted to provide adequate

replaced with cold applied bituminous coating 5. Backfilling shall conform to "Structure Backfill."

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

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe: Materials - Reinforced concrete pipe shall have

bell and spigot joints with rubber gaskets and

connections. The pH of the surrounding soils shall equal or exceed ASTM Designation C-361. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire etc., must be composed of the same material as length. This bedding shall consist of high slump concrete placed under the pipe and up the sides materials with use of rubber or plastic insulating of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as

shown on the drawings.

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. The first joint must be located within 2 feet from the

Backfilling shall conform to "Structure Backfill."

pipes less than 24° in diameter: flanges on both ends of the pipe, a 12° wide standard lap type 5. Other détails (anti-seep collars, valves, etc.) shall band with 12" wide by 3/8" thick closed cell circular be as shown on the drawings.

neoprene gasket; and a 12" wide hugger type Polyvinyl Chloride (PVC) Pipe - All of the following and maintain all temporary dikes, levees, cofferdams, band with 0-ring gaskets having a minimum criteria shall applly for polyvinyl chloride (PVC) pipe: diameter of 1/2* greater than the corrugation depth. Pipes 24" in diameter and larger shall be connected Materials - PVC pipe shall be PVC-1120 or PVC- works. The contractor shall also furnish, install, operate, by a 24° long annular corrugated band using rods 1220 conforming to ASTM D-1785 or ASTM D- and maintain all necessary pumping and other and lugs. A 12° wide by 3/8° thick closed cell circular neoprene casket will be installed on the

> Joints and connections to anti-seep collars shall excavations, foundation, and other parts of the work be completely watertight.

Bedding - The pipe shall be firmly and uniformly served their purpose, all temporary protective works bedded throughout its entire length. Where rock — shall be removed or leveled and graded to the extent or soft, spongy or other unstable soil is encountered, required to prevent obstruction in any degree all such material shall be removed and replaced whatsoever of the flow of water to the spillway or outlet

Backfilling shall conform to "Structure Backfill."

be as shown on the drawings.

Concrete shall meet the requirements of Maryland excavations, the water level at the locations being Department of Transportation, State Highway refilled shall be maintained below the bottom of the Administration Standard Specifications for Construction excavation at such locations which may require draining the water to sumps from which the water shall be and Materials, Section 608, Mix No. 3

5. Other details (anti-seep collars, valves, etc.) shall

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway All borrow areas shall be graded to provide proper Administration Standard Specifications for Construction drainage and left in a signify condition. All exposed and Materials, Section 905.

The riprap shall be placed to the required thickness in liming, fertilizing and mulching in accordance with the one operation. The rock shall be delivered and placed Maryland Soil Conservation Service Standards and in a manner that will insure the riprap in place shall be Specifications for Critical Area Planting (MD-342) or as reasonably homogeneous with the larger rocks shown on the accompanying drawings. uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between Erosion and Sediment Control the larger rocks. Fitter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway manner that erosion will be controlled and water and Administration Standard Specifications for Construction air pollution minimized. State and local laws concerning and Materials, Section 919.12.

Care of Water during Construction

All work on permanent structures shall be carried ou in areas free from water. The Contractor shall construct SEQUENCE OF CONSTRUCTION Obtain grading permit.

Install stone construction entrance. Install earth dike A2 at the northwest corner, engineered dike and Permanent dike #1 and #2 to divert runoff from culvert under Route 94 and offsite area and earth dike A2 from channel station 5+00 to station 8+50. Construct stone outlet sediment control trap ST II #1.

Construct proposed diversion channel and 6 ft. wide channel as shown on plan. Stabilize with erosion control matting. Stabilize all other disturbed

areas as per permanent seeding notes. Upon approval from sediment control inspector remove earth dikes A2 at the northwest corner and engineered dike. Backfill stone outlet sediment

trap ST II #1 and regrade, stabilize as per permanent seeding notes. Install earth dike A2 on the south side.

Construct sediment basin #1 as shown on plan including temporary and permanent dewatering device. Board the orifice with two-one inch wooden

2**X**3A

Grade the site.

Construct proposed worship center. Construct sanitary sewer.

Install curb and gutter; pavement and sidewalk. Stabilize all the disturbed areas as per permanent seeding notes.

Upon approval from the sediment control inspector, convert sediment basin #1 to a permanent storm water management facility as follows: A. Pump out the impounded water.

B. Remove laden sediment.

C. Remove boards from the riser inlet structures. D. Remove temporary dewatering device. Clean up the stone for permanent dewatering device. Install cap at the end of

20'-8" perforated PVC. E. Install stone weir for forebay structure. F. Stabilize all disturbed areas as per permanent seeding notes.

Upon approval from the sediment control inspector, remove all sediment control devices and stabilize the disturbed areas as per permanent seeding

3424

DETAIL 1 - EARTH DIKE 2:1 SLOPE OR FLATTER - EXCAVATE TO PROVIDE FLOW WIDTH AT DESIGN FLOW DEPTH DIKE A DIKE B a-DIKE HEIGHT 18" 36" D-DIKE WIDTH C-FLOW WIDTH O-FLOW DEPTH

TYPICAL STAPLES NO. GAUGE WIRE

MARYLAND DEPARTMENT OF ENVIRONM

STANDARD SYMBOL

A-2 8-3

--/--

2. Seed and cover with Erosian Control Matting or line with sod-3. 4" - 7" stone or recycled concrete equivalent pressed into

Construction Specifications

2. Runoff diverted from a disturbed area shall be conveyed to a sedimen-

3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.

shall be removed and disposed of so as not to interfere with the proper 5. The dike shall be excavated or shaped to line, grade and cross section as

or other irregularities which will impede normal flow. 6. Fill shall be compacted by earth moving equipment.

8. Inspection and maintenance must be provided periodically and ofter MARYLAND DEPARTMENT OF ENVIRONMEN

STANDARD 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,

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.

3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm

5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1991 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

6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7) Site Analysis: Total Area of Site Area Disturbed

6.06 Acres Area to be roofed or paved 1.48 Acres Area to be vegetatively stabilized 4.35 Acres Total Fill

Offsite waste/borrow area location 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

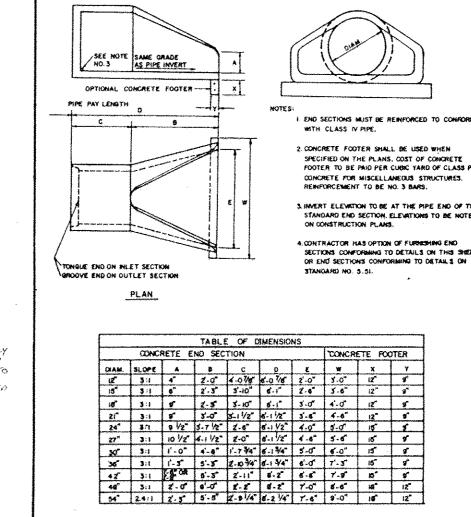
Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

(10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. 11) 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.

PROFILES BORING MTS.

STA 12 170 STA 12 + 90 571.0 A-HORIZON 567.5 CASHT BROWN SOME TO CITTLE CLAY AND TRACE (MC) A- HORIZON - EXISTING 1.14 GRADE F. Mapiron GIGHT BROWN! 3.5 567.5 A- 408 1701 YOUR CAME NI HITHE GEAVEL (CM) ECOUISH EXCL C- GOFTONI THOUTEY WET TO VIET SLETY TOP 5016 CONFIE TO A-HORIZON (-M) CIGHT BROWN AND WET SILTY COARSE FIBE MIGHT GRAY HIGHLY MILLY MEAVER WITTER THE MOTTIED MOIST TO WET SILT W/ SOME TO WATER SEEPAGE CITTLE CLAY AND 50' 1641.17.011 WATER SEEPAGE (ML) OBSERVED AT 40 B- HORIZON WATER SEEPAGE OBSERVED @ 30' 10100



drainage channels, and stream diversions necessary

to protect the areas to be occupied by the permanent

equipment required for removal of water from the

various parts of the work and for maintaining the

free from water as required or directed by the engineer

for constructing each part of the work. After having

operation or maintenance of the structure. Stream

diversions shall be maintained until the full flow can be

passed through the permanent works. The removal of

water from the required excavation and the foundation

shall be accomplished in a manner and to the extent

that will maintain stability of the excavated slopes and

bottom of required excavations and will allow satisfactory

performance of all construction operations. During

surfaces of the embankment, spillway, spoil and borroy

areas, and berms shall be stabilized by seeding

Construction operations will be carried out in such a

pollution abatement will be followed. Construction

plans shall detail erosion and sediment control measures

to be employed during the construction process.

the placing and compacting of material in required

with suitable earth compacted to provide adequate works and so as not to interfere in any way with the

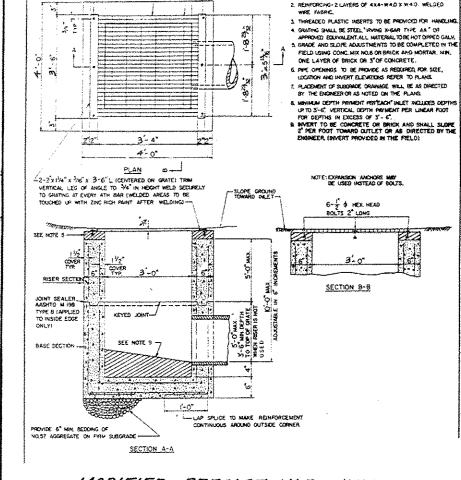
pumped.

LONGITUDINAL SECTION

HOWARD COURTY, MARYLAND DEPARTMENT OF PUBLIC WORKS! Approve Dries - BRe 108 As

CIRCULAR CONCRETE PIPE

END VIEW



-----35-1/4" X 1/4" VERTICAL BEADING BARS ON 17 C/C.

B- CROSS BARS ON 4" C/C

MODIFIED PRECAST YARD INLET THIS DETAIL TO BE USED ONLY FOR CONCRETE. REINFORCING AND GRATE. FOR ELEVATIONS REFER TO DETAILS ON PLAN SHEET.

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

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules: 1. Preferred - Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14

lbs acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. fl.) 2. Acceptable - Apply 2 tons/acre dolomitic limestone (92 lb/1000 sq. ft.) and 1000 lbs/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 - April 30, and August 1 - October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) or Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 -- February 28, protect site by: Option 1 - Two 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 30 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 slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for

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

TEMPORARY SEEDING NOTES

MARYLAND DEPARTMENT OF ENVIRONMEN

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.

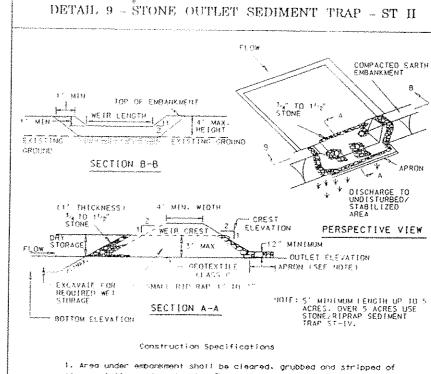
Soil Amendments: -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: - For periods March 1 -- April 30 and from August 15 -- October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 - August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. fl.). For the period November 16 -- February 28, protect site by applying 2 tons 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/acre (70 to 90 lbs/1000 sq. ft.) of unrotted 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

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





2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being

3. All out and fill slopes shall be 2:1 or flatter. 4. The stone used in the outlet shall be small rip-rop 4" to 7" in size with a 1' thick layer of $^3q^{\prime\prime}$ to $1^{4}c^{\prime\prime}$ washed aggregate placed on the upstream face of the outlet. Stone facing shall be as becassary to prevent congging. Gentaxtile Class C may be substituted for the stone facing by placing it on the inside face. of the stone outlet.

Sediment shall be removed and trap restored to its original. dimensions when the sediment has accumulated to one half of the et storage depth of the trap. Removed sediment shall be deposited

in a suitable area and in such a manner that it will not grade. 6. The structure shall be inspected periodically and after each rain and repairs made as needed.

7. Construction of traps shall be carried out in such a manner that sediment pollution is abated. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentration inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mutch upon trop completion and monitored and maintained erasion

free during the life of the trop. $\boldsymbol{\theta}_{t}$. The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized. 9. Refer to Section D for specifications concerning trap dewatering.

10. Minimum trap depth shall be measured from the weir elevation. II. The elevation of the top of any dike directing water into the trap must equal or exceed the elevation of the trap embankmen 12. Geotextile Class C shall be placed over the bottom and sides of the

overlan at least 1' with the section negrest the entrance placed on top. The filter cloth shall be embedded at least 6" into existing ground at the entrance

13. Dutlet - An outlet shall be provided, including a means of conveying the discharge in an erasion free manner to an existing stable channel.

outlet channel prior to the placement of stone. Sections of filter cloth must

ENGINEER'S CERTIFICALL

I hereby certify that these plans for small 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Sourable Munder 8/14/95

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 croston before beginning the project. I shall engage a registered professional engineer to supervise pond construction and 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.

DEVELOPER'S CERTIFICATE

1/We hereby certify that all development and/or construction will

Review for Howard Soil Conservation District and meets technical requirements for small pond construction, soil erosion

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

<u> Am Iminani</u> APPROVED: Howard County Health Department for private water and private sewerage systems.

APPROVED: Department of Planning and Zoning DIVISION MK

ADDRESS CHART PARCEL NO. STREET ADDRESS 503 1200 Madison Street

PERMIT INFO CHART

OWNER: Liberty Baptist Church, Inc. PARCEL 1275 North Avenue Lisbon, Maryland 21765 503 410/489-4137 DEED BLOCK ZONE TAX ELECT. CENSUS REF. ZONE DIST. TRACT 1515/ 12 RC-DEO 6040 195

SEWER CODE

WATER CODE

Sediment Control Details

LIBERTY BAPTIST CHURCH, INC Situated on Madison Street

Fourth Election District Howard County, Maryland Previous Submitals: BA 92-05E and SDP 94-19.

and BA 94-35E VANMAR ASSOCIATES INC [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 19 [1] 1 Charles Maria Carros For Boy 8th Morney Arra Marghard (1873)

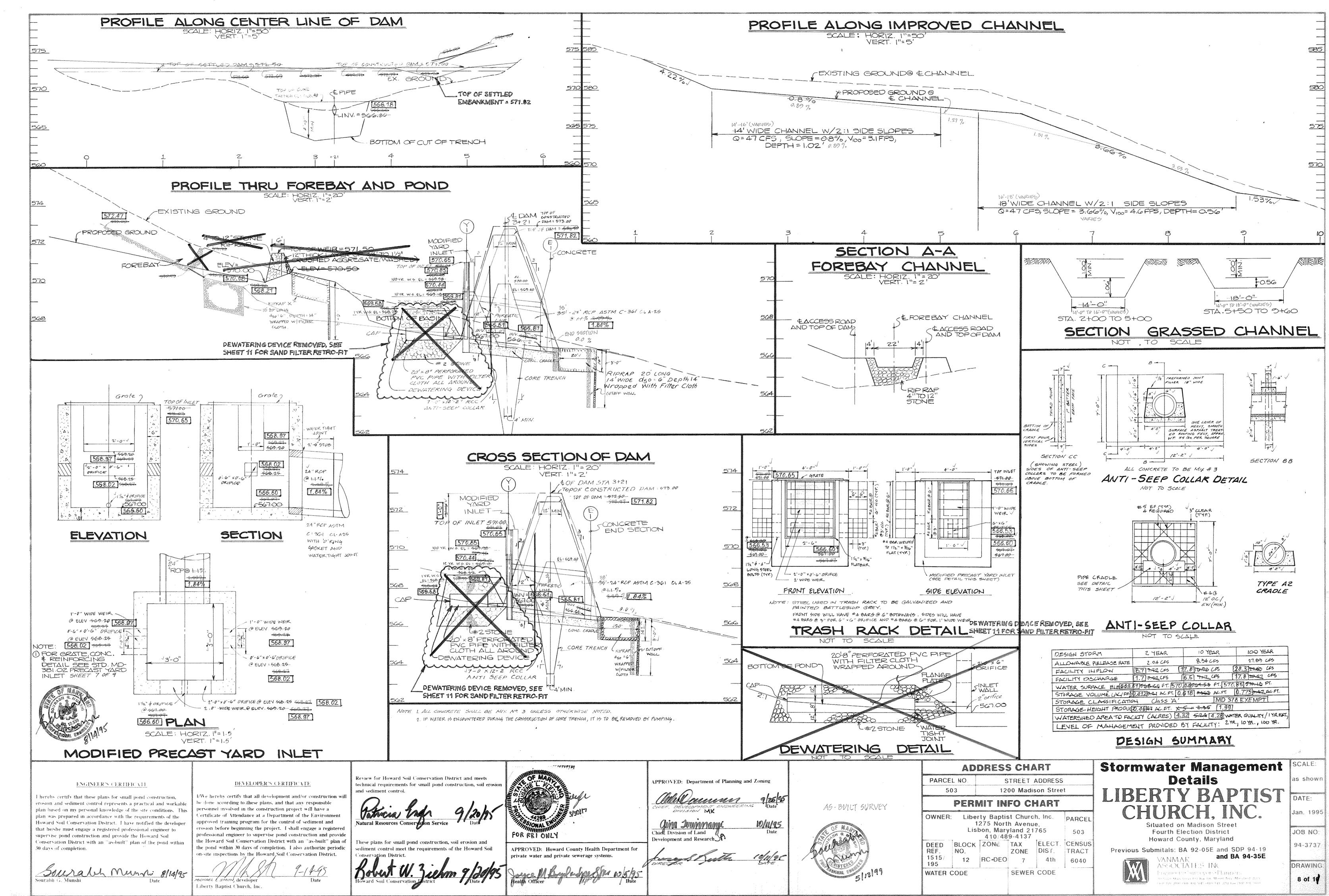
SDP-95-79

DRAWING 7 of 10

Jan. 1995

JOB NO:

94-3737



APPENDIX A DAM INSPECTION CHECKLIST

- To help the dam owner perform periodic safety inspections of the structure, a checklist is provided. Each item of the checklist should be completed. Repair is required when obvious problems are observed. Monitoring is recommended if there is potential for a problem to occur in the future. Investigation is necessary if the reason for the observed problem is not obvious.
- A brief description should be made of any noted irregularities, needed maintenance, or problems. Abbreviations and short descriptions are recommended. Space at the bottom of the form should be used for any items not listed.

The following chart may be used as a guide by the dam owner in determining the frequency of inspections for the dam. Each program is dependant on the particular condition of the dam. The Dam Safety Division is available to assist owners in tailoring a program for their facility.

DAM OWNER INSPECTED BY	DATE WEATH POOL L		-		¥ / ¥	MOHITOR	REPAI	
Item	Conments		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		×	Ř	Ř	Ė
1. CREST		Annual de la Constantina del Constantina de la Constantina de la Constantina de la Constantina de la Constantina del Constantina de la Con						
a. Visual settlement?								
b. Kisalignment?								
c. Cracking?								
2. UPSTREAM SLOPE				7				
a. Erosion?								
b. Ground cover in good condition?								
c. Trees, shrubs, or other woody vegetation?								
d. Longitudinal/Vertical cracks?								
e. Adequate riprap protection?								
f. Stone deterioration?								
g. Settlements, depressions, or bulges?		,						
3. DOWNSTREAM SLOPE								
a. Erosion?								
b. Ground cover in good condition?								
c. Trees, shrubs, or other woody vegetation?								
d. Longitudinal/Vertical cracks?				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Γ	Γ		
e. Riprap protection adequate?		**************************************						
f. Sattlements, depressions, or bulges?		, , , , , , , , , , , , , , , , , , ,			Γ		Π	
g. Soft spots or boggy areas?		en may are a free particular property and the second						
h. Movement at or beyond toe?		, , , , , , , , , , , , , , , , , , ,			·			
i. Boils at toe?								T.
4. DRAINAGE-SEEPAGE CONTROL	* · · · · · · · · · · · · · · · · · · ·	7						
a. Internal drains flowing?	Est. Left	ppm Est	. Right	&				
b. Seepege at toe?	Estimated	8ba		100-110-110-110-110-110-110-110-110-110				
c. Does seepage contain fines?								

INSPECTION CHECK	CLIST - PAGE 2 DATE		¥ O	R
INSTECTED BY	DATE	Y	0 1 1 0 2	REPAIR
) tea	Comments	Y / #	O R	R
S. ABUTHENT CONTACTS				d
a. Erosion?		T	T	Π
b. Differential movement?		1	Г	1
c. Cracks?		1		1
d. Seepaga7	Estimated gpms	1		1
e. Adequate erosion protection for ditches?		1		T
S. INLET STRUCTURE	Concrete or Hetal Pipe (circle one)			
a. Seepega into structure?		T		
b. Debris or obstructions?				<u> </u>
c. If concrete, do surfaces show:		-4		L
1. Spalling?		T		Г
2. Cracking?		1		\vdash
3. Erosion?		1		
4. Scaling?		1		
5. Exposed reinforcement?		1-		
6. Other?		1		
d. If metal, do surfaces show:			1	
1. Corrosion?		T	<u> </u>	Γ
2. Protective Coating deficient?		1		
 Misalignment or split seams? 		1		
e. Do the joints show:			1	·
1. Displacement or offset?		T		Ī
2. Loss of joint material?		1		<u> </u>
3. Leakege?		1		
f. Are the trash racks:			•	
1. Broken or bent?		T	Γ	Γ
2. Corroded or rusted?		1		
3. Obstructed?		T	Γ	Π
4. Operational?		1		
g. Sluice/Drain gates:				
1. Broken or bent?		T	1	T
2. Corroded or rusted?				Γ
3. Leaking?		1	T	Γ
4. Not seated correctly?		1		1
4. Periodically maintained?		1		Γ
5. Operational?		1	1	1



ASSOCIATES INC Engineers · Surveyors · Planners 310 South Main Street. P.O. Box 328, Mount Airy. Maryland 21771 (410) 549-2751 Fax (301) 831-5603 (301) 829-2890 (301) 695-0600 (301) 831-5015

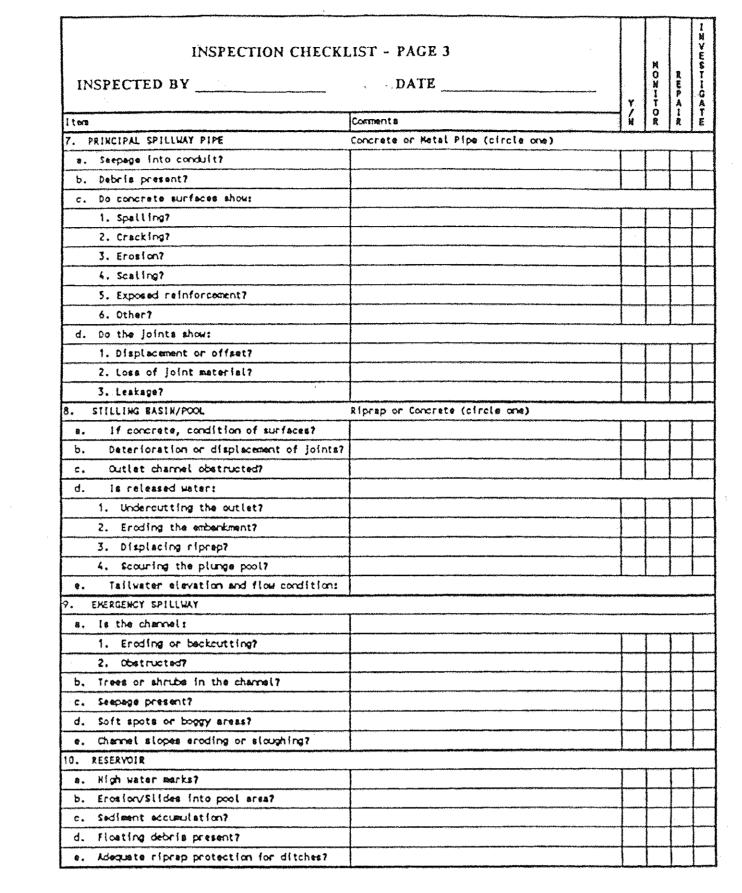
OPERATION AND MAINTENANCE SCHEDULE

ROUTING MAINTENANCE

- 1. The facility shall be inspected annually as per checklist shown on plan. Any deficiencies identified must be repaired.
- 2. The top and side slopes of the facility shall be mowed at least twice a year in the month of June and September.

NON ROUTING MAINTENANCE

- The structure must be inspected after every major storm. Any deficiencies identified must be repaired.
- 2. Pipes, risers, and barrels must be inspected after every storm.
- Any deficiencies identified must be repaired. Debris and litter will be removed as necessary.
- Sediment collected in the facility will be removed when the structure volume is reduced to the extent that it cannot function as designed.





ENGINEER'S CERTIFICATE

I hereby certify that these plans for small 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Sourable Munow 8/14/95

DEVELOPER'S CERTIFICATE

I/We hereby certify that all development and/or construction will he 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 shall engage a registered professional engineer to supervise pond construction and 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.

Liberty Baptist Church, Inc.

Review for Howard Soil Conservation District and meets technical requirements for small pond construction, soil erosion

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

and sediment control.

APPROVED: Howard County Health Department for

APPROVED: Department of Planning and Zoning Development and Research

ADDRESS CHART PARCEL NO. STREET ADDRESS 503 1200 Madison Street PERMIT INFO CHART

OWNER: Liberty Baptist Church, Inc. PARCEL 1275 North Avenue. Lisbon, Maryland 21765 503 410/489-4137 BLOCK ZONE TAX ELECT. CENSUS REF. ZONE DIST. TRACT 1515/ 195 12 RC-DEO 7 4th 6040 WATER CODE SEWER CODE

Stormwater Management Notes LIBERTY BAPTIST

CHURCH, INC.

Situated on Madison Street Fourth Election District Howard County, Maryland



Previous Submitals: BA 92-05E and SDP 94-19 and BA 94-35E ASSOCIATES INC. Engineers Surveyors Planners 310 South Main Street, P.O. Box 328, Mount Airy Maryland 21771 (40) 829 2890 (40) AH 5015 (410) 549 2751 Fax (30) 831 5603

1"= 50"

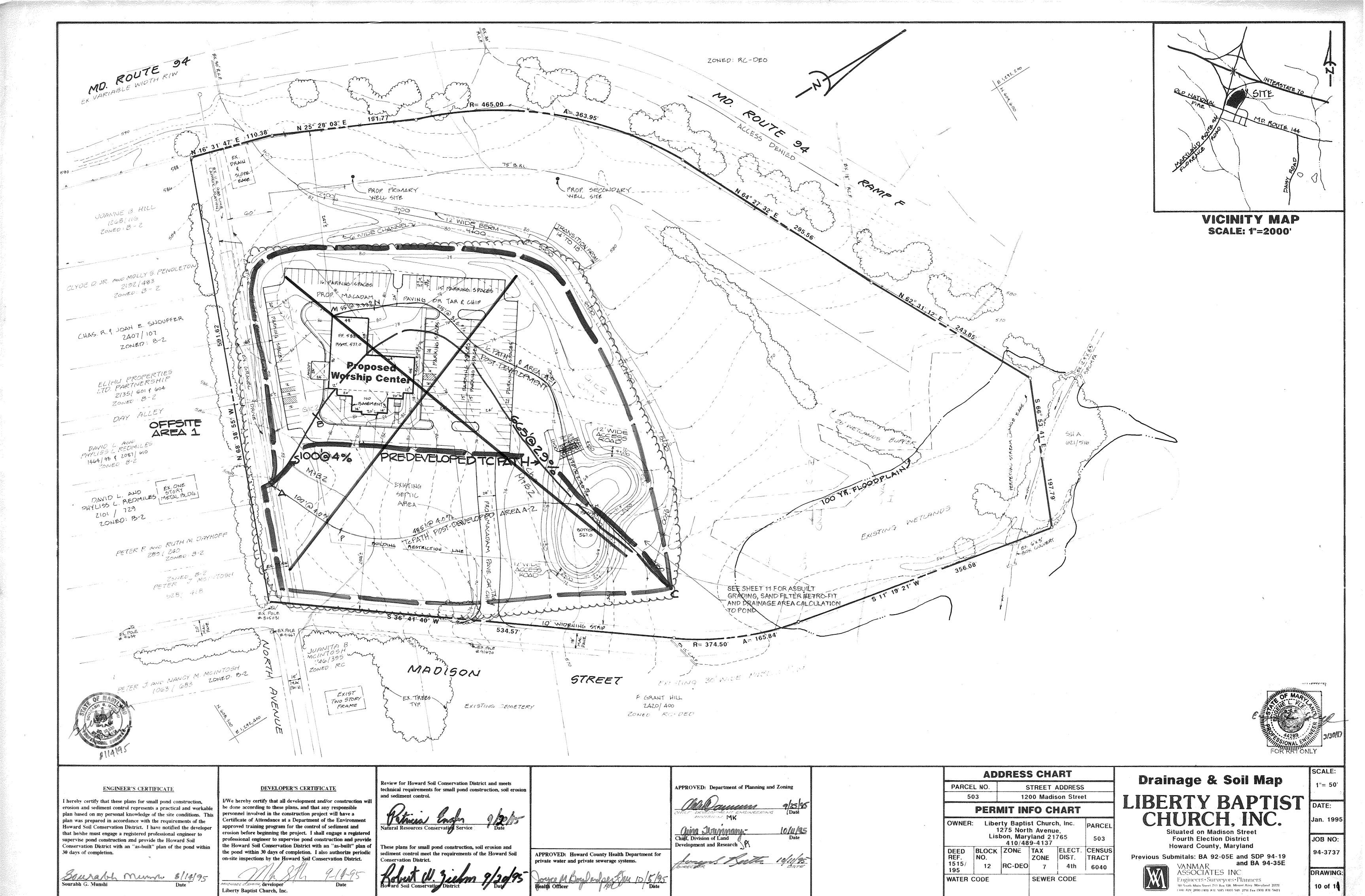
Jan. 1995

JOB NO:

94-3737

DRAWING

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