

GENERAL NOTES

1. THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO COMPLETE "PHASE ONE AND PHASE TWO" OF THE CONSTRUCTION PROJECT APPROVED UNDER BA 97-46E, BA 00-36E AND BA 01-64V. PHASE ONE INCLUDES CONSTRUCTION OF THE SANCTUARY, ENTRY DRIVEWAY, 2400 PARKING SPACES, SWM FACILITIES, SEWAGE DISPOSAL SYSTEM, GRADING AND LANDSCAPING FOR THE PROPOSED "ST. JOHN THE EVANGELIST BAPTIST CHURCH" IN ACCORDANCE WITH THE SITE DEVELOPMENT PLAN REGULATIONS. PHASE II INCLUDES THE CONSTRUCTION OF OFFICE, CLASSROOM SPACE. PHASE III INCLUDES THE CONSTRUCTION OF THE FELLOWSHIP HALL AND ADDITIONAL PARKING. FOREST CONSERVATION REQUIREMENTS FOR ALL PHASES OF DEVELOPMENT, AS WELL AS STORMWATER MANAGEMENT, AND LANDSCAPING REQUIREMENTS, HAVE BEEN PROVIDED FOR UNDER THIS SDP PLAN.

2. No future L.O.D. expansion is required for Phase 3 of the Site Development.

3. All construction shall be in accordance with the latest standards and specifications of Howard County Design Manual Vol. IV and current MSHA standards & specifications. All contractors shall have a copy of the Howard County Design Manual Vol. IV on site at all times.

4. Project Background:
 Location: Ellicott City, Maryland
 Tax Map: Map 16
 Parcel: 203
 Grid: 16
 Election District: 3rd

5. The subject property is zoned: DEO (Rural Conservation - Density Exchange Option) per the 10/18/93 Comprehensive Zoning Plan.

6. Deed Reference:
 Parcel 203: L 4195 / F 435 Deed Area = 41.15 Acres +/-
 Total per Boundary Survey = 41.1509 Acres +/-

7. The property shown hereon is based on a field run boundary survey performed by LDE, Inc. dated September 2000.

8. Horizontal and vertical datum's are related to the Maryland State Plane Coordinate System as projected from Howard county control stations NO. 16HC and 16HB (NAD 83).

9. Site Analysis Data:
 a. Total project area: Site = 41.15 Acres
 b. Area of Plan Submission: 41.15 Acres
 c. Limit of Disturbed Area: 15.75 Acres
 d. Present Zoning: RC-DEO
 e. Proposed uses for Site & Structures: Phase 1 - Sanctuary & Parking Lot
 Phase 2 - Office & Educational Building
 Phase 3 - Sanctuary & Parking Lot Expansions and Fellowship Hall

Future Site and Structures Use:
 f. Building Floor Space:
 g. Total Number of Units Allowed: N/A
 h. Total Number of Units Proposed: N/A
 i. Maximum Number of Employees: N/A

j. Parking Required:
 P.1. Sanctuary & Mid Week Prayer 735 Seats (1/3 seats) = 245 spaces
 P.2. Office & Educational Building ** = N/A Provided this plan
 P.3. Future Sanctuary & Fellowship Hall Expansion ** = 97 spaces
 (** not part of this plan) Total Parking Required = 342 spaces

k. Total Parking Provided:
 l. Open Space: 0.0000 Ac +/-
 m. Recreation Open Space: N/A
 n. Coverage of Site:
 a) Phase 1 (2,149 SF) Phase 2 (8068 SF) =
 b) Maximum Coverage = 25 % or 10,239 Acres +/- Per Zoning Reg. Sec 12.11N.45

o. Applicable D.P.Z. Fee References: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

10. Any damage caused by the contractor to existing public right-of-way, existing paving, existing utilities, etc. shall be corrected at the contractor's expense in accordance with the Howard County Standards and Specifications.

11. The existing utilities shown hereon are located from field surveys and construction drawings of record. 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. Any damage incurred to utilities or existing features due to contractor's operation shall be repaired immediately at the contractor's expense.

12. There may be additional utilities not shown on these plans. The engineer assumes no responsibility for utility locations not shown and it shall be the responsibility of the contractor to verify the locations of all existing utilities within the limits of construction and notify the engineer of any discrepancies, prior to the start of construction.

13. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least forty-eight (48) hours prior to any excavation work.

14. Deviations from these plans and specifications without prior written consent of the civil engineer may cause the work to be unacceptable.

15. All Utility Poles within the limit of construction shall be braced prior to the start of work. Contractor shall contact Utility Companies prior to bracing, adjustment or relocation.

16. Building dimensions shown hereon are approximate only. Refer to the architectural plans for building dimensions.

17. Adjustments to the sequence of construction shall be approved by the Howard County Department of Inspections, Licenses and Permits; prior to such adjustments.

18. All fill shall be rolled to a minimum degree of compaction of 95 % of the dry unit weight as determined by AASHTO T-190.

19. No clearing, grading or construction is permitted within the required wetlands, streams or their buffers or forest conservation easement areas.

20. The dimensional distances shall govern if scaled and dimensional distances on this plan are found to be in disagreement.

21. Traffic control devices, markings and signage shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt. The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior and 24 hrs in advance of the commencement of work.

22. All lighting shall conform to Section 194 of the Zoning Regulations for Howard County. See Details Sheet 29.

23. Maryland Route 40 and Mariottsville Road are not scenic roads.

24. There are no existing contiguous slopes 25 % or greater which are greater than 20,000 square feet within the boundaries of the site.

25. There are no Burial Grounds on the property being developed.

26. All existing well and septic areas located within 100 feet of the property are shown, where applicable.

27. The existing well (H2-75-1654) serving the existing dwelling shall be abandoned and sealed by a licensed well-driller in accordance with approved Health Department procedures. See Sheet 31 for additional notes.

28. The existing sewage disposal system presently serving the existing dwelling shall be abandoned in accordance with approved Health Department procedures. See Sheets 31 & 32 for additional notes.

29. The existing underground and above ground fuel oil storage tanks serving the existing dwelling shall be removed in accordance with approved State & Federal regulations. It is the contractor's responsibility to obtain all necessary permits for tank removal.

30. The proposed Water and Sewer systems to be public water and private septic. The property is located within the Planned Service Area for WATER and the planned service area for SEWER. The proposed church facility will utilize water connections from existing Contract Number 44-3480.

31. This area designates a private sewage disposal easement as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This easement shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to adjust the private sewerage easement. Recordation of a modified easement shall not be necessary. This easement consists of 193,650 sq. ft.

32. See Percolation Certification Plans for percolation test locations, as approved by the Howard County Health Department - March 9, 2001.

33. This project complies with the requirement of Section 16.1200 of the Howard County Code for Forest Conservation by: RETENTION (3,4680 Aca) AND REFORESTATION (2,6850 Aca. a) LANDSCAPE OPTION (0,4025 Aca). The Forest Conservation Easements, as shown, fulfill the obligations for all Phases of Development. See sheets 25-29 and 30. Surety for Retention in the amount of \$47,647 and Reforestation in the amount of \$57,030 shall be made part of the Developers agreement for this Site Plan in the amount of \$95,655 (Retention \$47,647 & Reforestation \$97,996 - Landscape Credit \$9,800 = \$95,655).

34. Landscaping requirement per Section 16.124 of the Subdivision and Land Development Regulations shall be provided in accordance with a landscape plan with this siteplan. Surety in the amount \$54,750 shall be made part of the Developers agreement for this site plan.

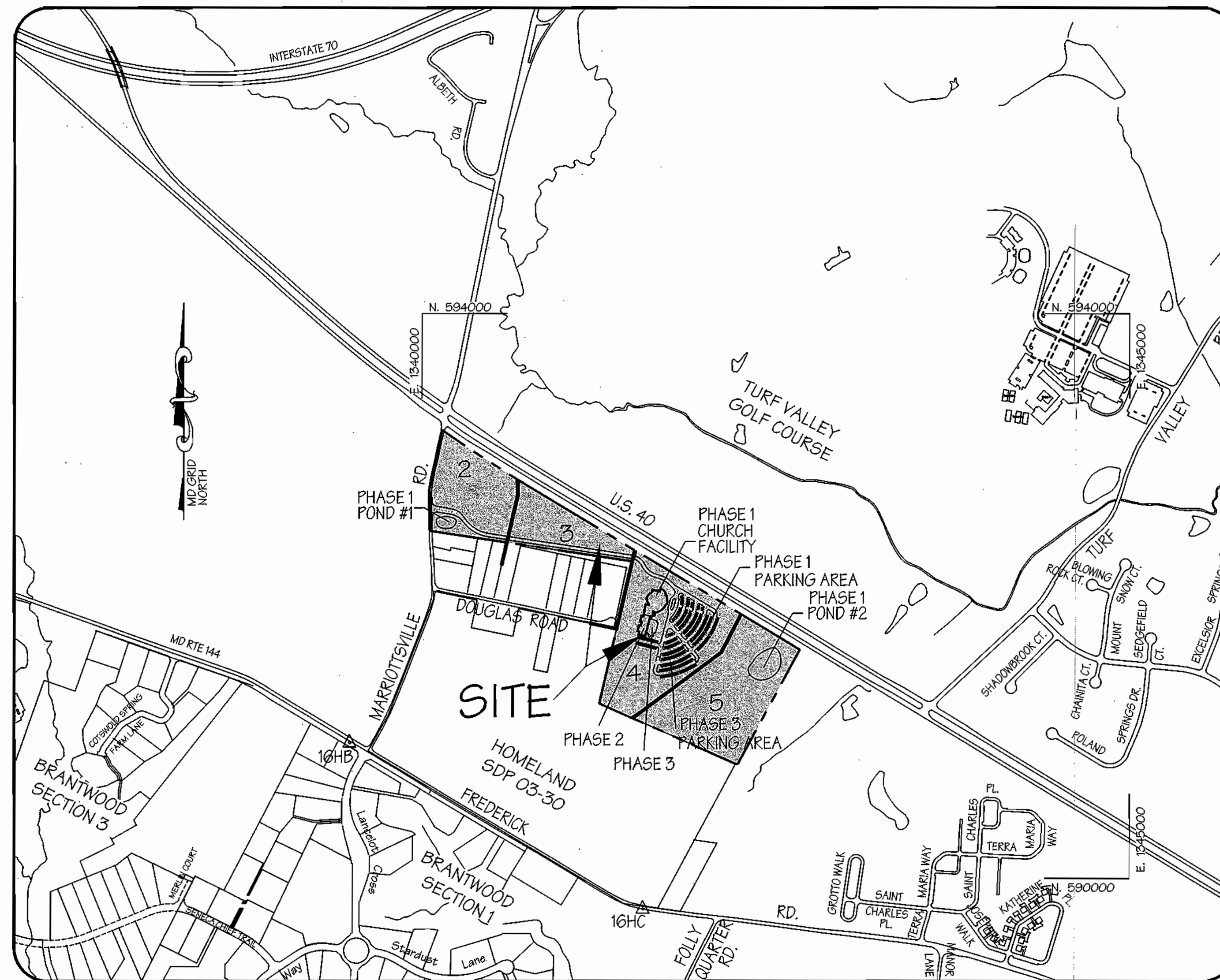
35. A noise study is not required for this Site Development Plan submission.

36. A 100 Year Floodplain Study has been completed per SHA requirements and is located on portions of the site to remain undeveloped and can be considered non-critical.

37. A Traffic Analysis was completed by O.R. George & Associates, Inc. on January 30, 2001.

38. The Geotechnical Report was completed by Herbert / Benson & Associates Geotechnical Engineers, Sept. 2000 and amended Dec. 2002, as part of this Site Development Plan submission.

39. The Decision and Order for Board of Appeals Case BA 97-46E, dated October 21, 1997, ORDERED, that the petition of St. John the Evangelist Baptist Church for a special exception to construct a religious facility be GRANTED, subject to the following conditions:
 1. The special exception shall apply only to the uses and structures as described in the petition and the special exception plan submitted to the Board July 14, 1997, and not to any other activities, uses, structures, or additions on the Property.
 2. The phasing plan for the construction of the improvements is approved as follows:
 (a) Phase I, the construction of the sanctuary space, shall commence within three years of the date hereof;
 (b) Phase II, the construction consisting of the office and classroom space, shall commence within five years of the date hereof; and
 (c) Phase III, the construction of the fellowship hall, shall commence within seven years of the date hereof;
 3. The Petitioner shall maintain and replace, from time to time, the landscape screen required under the Howard County Landscape Manual, to continue to screen the improvements on the Property, especially the driveway, from the adjacent properties.
 4. The petitioner shall comply with all applicable Federal, State, and County laws and regulations.
 40. The Decision and Order for Board of Appeals Case BA 00-36E, dated November 14, 2000, ORDERED, that the petition of St. John the Evangelist Baptist Church for a modification to the condition of approval of its special exception for a religious facility on the property known as 2895 Mariottsville Road, Mariottsville, Howard County, Maryland, to permit an increase in the size and configuration of the proposed facility, be GRANTED, and the special exception granted on November 4, 1997 in the Decision and Order for BA Case 97-46E is hereby amended as follows:
 1. The condition of approval enumerated in number one (1) in Case 97-46E is deleted and in lieu thereof the following condition of approval is added. "The special exception shall apply only to the uses and structures as described in the petition and the amended special exception plan submitted to the Board on August 7, 2000, and not to any other activities, uses, structures, or additions on the property."



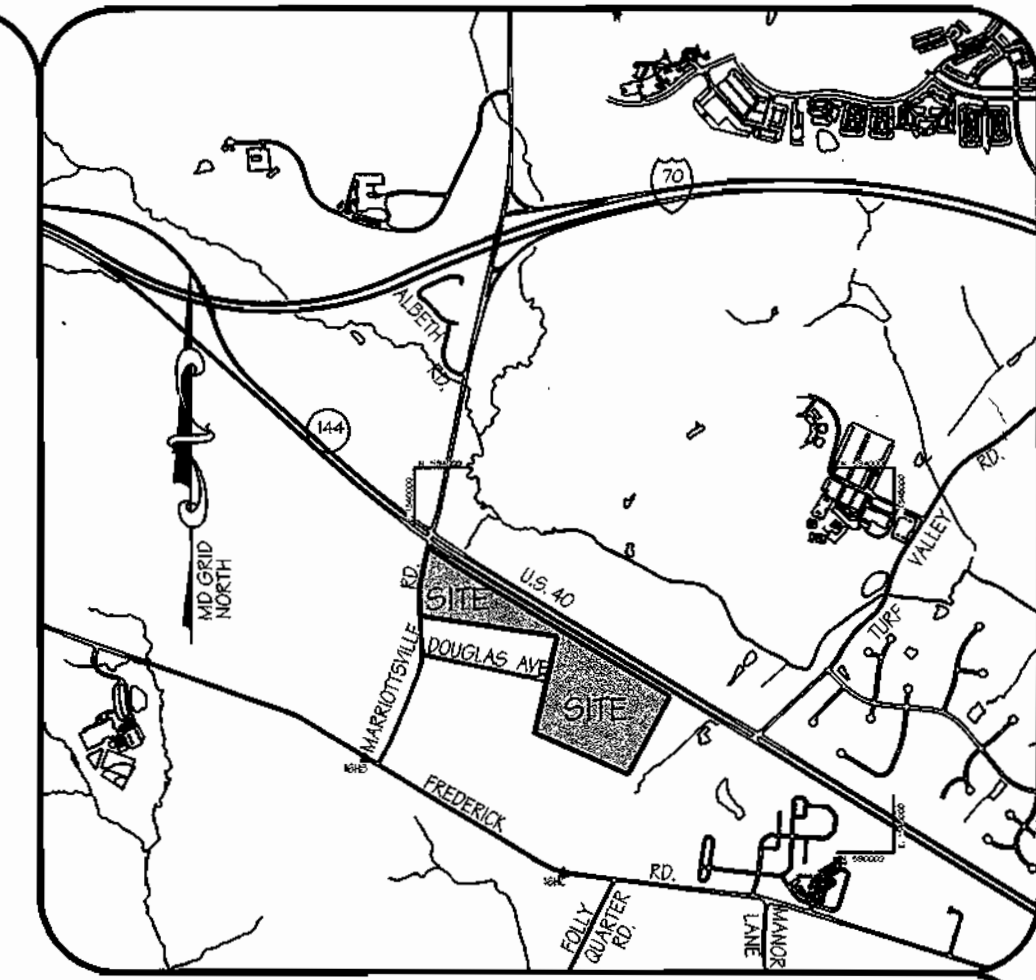
LOCATION MAP
1" = 600'

SITE DEVELOPMENT PLANS FOR PHASE ONE & PHASE TWO ST. JOHN THE EVANGELIST BAPTIST CHURCH 3rd ELECTION DISTRICT - HOWARD COUNTY, MD

BENCHMARKS

HOWARD COUNTY GEODETIC CONTROL: 16HC
 Elevation: 449.451
 Station is a standard stamped disc set on top of concrete monument. Located on the southern boundary of Maryland Route 144, 0.1 Mile west of Folly Quarter Road.

HOWARD COUNTY GEODETIC CONTROL: 16HB
 Elevation: 540.658
 Station is a standard stamped disc set on top of concrete monument. Located 21.9' south of centerline - Maryland Route 144, 147.5' west of Mariottsville Road.
 Station is flush with surface.



VICINITY MAP
1" = 2000'

INDEX OF SHEETS	
No.	Description
1	Cover Sheet
2	Site Development Plan
3	Site Development Plan
4	Site Development Plan
5	Site Development Plan
6	Miscellaneous Details
7	Drainage Area Map
8	Drainage Area Map
9	Drainage Area Map
10	Drainage Area Map
11	Storm Drain Profiles
12	Storm Drain Profiles
13	Maintenance of Traffic & Striping Plan
14	Phase 1 - Grading & Soil Erosion & Sediment Control Plan
15	Phase 2 - Grading & Soil Erosion & Sediment Control Plan
16	Phase 2 - Grading & Soil Erosion & Sediment Control Plan
17	Phase 2 - Grading & Soil Erosion & Sediment Control Plan
18	Phase 2 - Grading & Soil Erosion & Sediment Control Plan
19	Grading & Soil Erosion and Sediment Control Plan - Details
20	Grading & Soil Erosion and Sediment Control Plan - Details
21	Pond Construction Notes & Soil Borings
22	Pond #1 Construction Details
23	Pond #2 Construction Details
24	Ultimate Pond #2 Details
25	Landscape & Forest Conservation Plan
26	Landscape & Forest Conservation Plan
27	Landscape & Forest Conservation Plan
28	Landscape & Forest Conservation Plan
29	Landscape and Outdoor Lighting Plan Details
30	Forest Conservation Notes & Computations and Retaining Wall Details
31	Public Water Connection & Private Sewage System - Plan
32	Public Water Connection & Private Sewage System - Notes & Details
33	Private Sewage System - Details

GENERAL NOTES CONTINUED

41. The Decision & Order for Board of Appeals Case BA 01-64V, dated February 5, 2002, ORDERED, that the petition of St. John the Evangelist Baptist Church, for variances to reduce the 50 foot use setback from a public street right-of-way to 30 feet, and to reduce the 30 foot use setback from a side lot line to 20 feet for the construction of a 24 foot wide paved driveway in an RC-DEO (Rural Conservation Density Exchange Option) Zoning District, be and the same hereby is, GRANTED, subject to the following conditions:
 1. The mentioned variances shall apply only to the access driveway as described in the petition and as depicted on the plan submitted on October 31, 2001, and not to any other activities, uses, or structures on the Property.
 2. The Petitioner shall comply with all applicable Federal, State, and County laws and regulations.
 3. The Petitioner is granted a refund of the filing fee for the variance petition in BA 01-64.
 42. Stormwater management has been met per the guidelines of the 2000 Maryland Stormwater Design Manual - Volumes 1 & 2. The site drains into 3 Subareas:
 Subarea # 1
 - Recharge Volume requirements have been met through the use of Open Section Road Grate Channels in lieu of curb & gutter.
 - Water Quality Volume requirements have been met within the proposed Pond #1 and a Water Quality Grass Channel.
 - Channel Protection Volume requirements have been met within proposed Pond #1.
 Subarea # 2
 - Study area has been reduced in acreage and no proposed impervious areas drain into Subarea 2.
 Subarea # 3
 - Recharge Volume requirements have been met through the use of Grass Channels.
 - Water Quality Volume requirements have been met within the proposed Pond #2.
 - Channel Protection Volume requirements have been met within proposed Pond #2.
 43. This plan is subject to WP 03-06. On August 23, 2002, the Planning Director approved your request to waive Section 16.156(f)(2) requiring additional information/revised plans within 45 days of notification that revised plans are needed.
 Approval is subject to the following conditions:
 1) Submit revised plans for SDP-02-06, St. John the Evangelist Baptist Church, within 45 days of the date of the approval of this WP-03-06 (by October 7, 2002). Contact Carol Stim at (410) 313-2250 to set an appointment for the revised plan submittal.
 2) With the revised plan submission, provide a letter detailing how the revised entrance is a better alternative than the original entry design.
 3) Also with the revised plan submission, provide a justification for the stream buffer disturbance associated with the revised entry per Section 16.116(c).
 4) Secure approval by the Development Engineering Division of an alternative to the Design Manual requirements for Intersection Sight Distance. That requirement cannot be achieved under either the current design for access or under the new proposal for access as shown on the waiver petition exhibit.
 44. The Department of Planning & Zoning Division of Land Development on 11/7/02 determined that the stream and wetlands buffer crossing for the purposes of the entry drive is essential, based on justification provided by LDE, Inc., as required as a condition of approval for WP-03-06.
 45. On October 3, 2002 a waiver to Design Manual, Volume III, Figure 2.17 and 2.17A was submitted to allow the use of stopping sight distance for the church driveway entrance onto Mariottsville Road. Based on the information provided with the submittal, the Development Engineering Division declined to deny the request. The denial was based principally on the fact that intersection sight distance for the 85 th percentile speed of 37.3 mph is provided in both directions and a reduction to stopping sight distance is not necessary.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
 [Signature]
 HOWARD COUNTY HEALTH OFFICER
 DATE: 7-17-03

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 7/11/03

[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 7/23/03

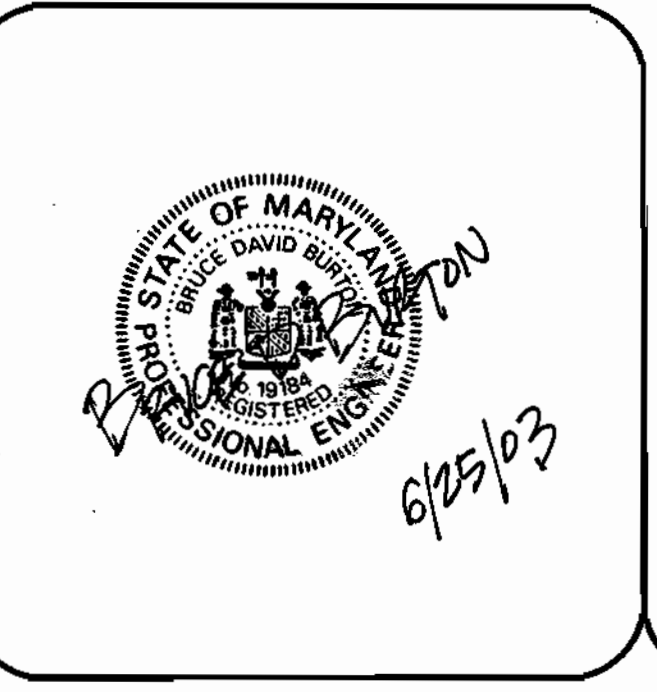
[Signature]
 DIRECTOR
 DATE: 7/24/03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
 [Signature]
 STATE OF MARYLAND
 SOIL CONSERVATION DISTRICT
 DATE: 7/8/03

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature]
 HOWARD SOIL CONSERVATION DISTRICT
 DATE: 7/8/03

ENGINEER'S CERTIFICATE
 I certify that this plan has been reviewed and approved and that the technical requirements for small pond construction, soil erosion and sediment control represents a practical and workable design for the site conditions. This plan was prepared in accordance with the standards of the Howard County Soil Conservation District. I have notified the appropriate agencies and engaged a registered professional engineer to supervise construction of the project. I shall engage a registered professional engineer to supervise construction of the project. I also authorize periodic on-site inspections by Howard County Soil Conservation District.
 [Signature]
 SIGNATURE OF ENGINEER
 DATE: 6/25/03

DEVELOPER'S CERTIFICATE
 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 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 Howard County Soil Conservation District.
 [Signature]
 SIGNATURE OF DEVELOPER
 DATE: 6/25/03



REVISIONS

No.	Date	Description

ADDRESS CHART

Parcel No.	Street Address
203	2895 Mariottsville Road

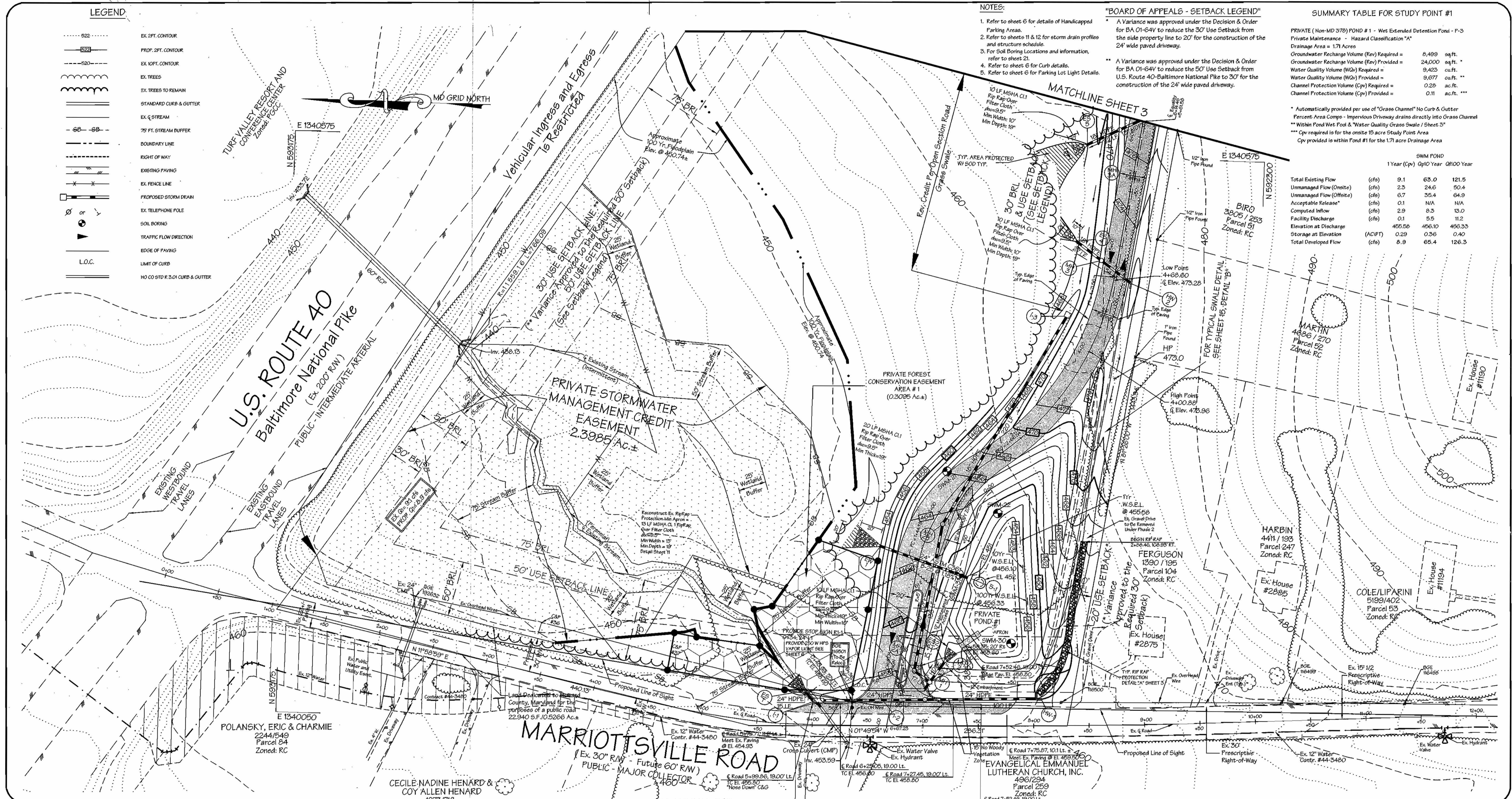
LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD, 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F03-96

OWNER: ST JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD, Route 108
 Columbia, Maryland 21045

SCALE: AS SHOWN
 DRAWING: 1 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05



LEGEND

- EX. 2FT. CONTOUR
- PROP. 2FT. CONTOUR
- EX. 10FT. CONTOUR
- EX. TREES
- TREES TO REMAIN
- STANDARD CURB & GUTTER
- EX. STREAM
- 75 FT. STREAM BUFFER
- BOUNDARY LINE
- RIGHT OF WAY
- EXISTING PAVING
- EX. FENCE LINE
- PROPOSED STORM DRAIN
- EX. TELEPHONE POLE
- SOIL BORING
- TRAFFIC FLOW DIRECTION
- EDGE OF PAVING
- LIMIT OF CURB
- HO CO STD R. 3.01 CURB & GUTTER

NOTES:

- Refer to sheet 6 for details of Handicapped Parking Areas.
- Refer to sheets 11 & 12 for storm drain profiles and structure schedule.
- For Soil Boring Locations and information, refer to sheet 21.
- Refer to sheet 6 for Curb Details.
- Refer to sheet 6 for Parking Lot Light Details.

"BOARD OF APPEALS - SETBACK LEGEND"

- A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.
- A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.

SUMMARY TABLE FOR STUDY POND #1

PRIVATE (Non-MD 37B) POND #1 - Wet Extended Detention Pond - P-3
Private Maintenance - Hazard Classification "A"
Drainage Area = 1.71 Acres

Groundwater Recharge Volume (Rev) Required =	8,489	cu.ft.
Groundwater Recharge Volume (Rev) Provided =	24,000	cu.ft.
Water Quality Volume (WQV) Required =	9,677	cu.ft.
Water Quality Volume (WQV) Provided =	0.28	ac.ft.
Channel Protection Volume (Cp) Required =	0.11	ac.ft.
Channel Protection Volume (Cp) Provided =		

* Automatically provided per use of "Grass Channel" No Curb & Gutter
Percent Area Comps - Impervious Driveway drains directly into Grass Channel
** Within Pond Wet Pool & "Water Quality Grass Swale / Sheet 3"
*** Cp provided is within Pond #1 for the 1.71 acre Drainage Area

SWM POND

	1 Year (Cp)	Opt0 Year	Opt10 Year
Total Existing Flow (cfs)	9.1	63.0	121.5
Unmanaged Flow (Onsite) (cfs)	2.3	24.6	50.4
Unmanaged Flow (Offsite) (cfs)	6.7	38.4	64.9
Acceptable Release* (cfs)	0.1	N/A	N/A
Computed Inflow (cfs)	2.9	9.3	13.0
Facility Discharge (cfs)	0.1	5.5	11.2
Elevation at Discharge (ACFT)	455.58	456.10	456.33
Storage at Elevation (cfs)	0.29	0.36	0.40
Total Developed Flow (cfs)	8.9	65.4	126.3

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Denise Borstein, M.D., P.E.
HOWARD COUNTY HEALTH OFFICER
7-17-03
DATE

PAVING LEGEND HO. CO. R 2.01

P-1 Paving Section

P-2 Paving Section

Easement Legend

Stormwater Management Credit Easement

Forest Conservation Easement

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	36° 11' 50"	121.76'	64.46'	S57° 42' 01"E - 118.45'
Driveway - 2+66.54 - 4+71.56	250.00'	22° 55' 06"	205.02'	106.67'	S57° 56' 22"E - 199.33'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John J. Adams
CHIEF, DEVELOPMENT ENGINEERING DIVISION
7/11/03
DATE

Cindy Hamata
CHIEF, DIVISION OF LAND DEVELOPMENT
7/22/02
DATE

Paula D. Logan
DIRECTOR
7/24/02
DATE

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

Ji. Noyes, ICS
HOWARD SOIL CONSERVATION DISTRICT
7/8/02
DATE

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

Mark A. Hill
HOWARD SOIL CONSERVATION DISTRICT
7/8/02
DATE

ENGINEER'S CERTIFICATE

I certify that this plan for proposed stormwater management control represents a practical and workable plan for the site conditions. The plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the District of 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 construction.

BRUCE D. ENGLISH
REGISTERED PROFESSIONAL ENGINEER
6/25/03
DATE

DEVELOPER'S CERTIFICATE

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 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 construction within 30 days of completion. I also authorize periodic on-site inspections by Howard Soil Conservation District.

Paula D. Logan
DEVELOPER
6/25/03
DATE

STATE OF MARYLAND

DAVID B. WOODEN
REGISTERED PROFESSIONAL ENGINEER
6/25/03
DATE

NOTE: 1. REFER TO SHEET 13 FOR A 1'-20' DETAILED PLAN OF THE DRIVEWAY AND MARIOTTVILLE ROAD INTERSECTION
2. MARIOTTVILLE ROAD IMPROVEMENTS SHALL BE IN CONFORMANCE WITH HOWARD COUNTY DETAIL R 6.08 & R 10.01 SEE SHEET B

Centerline Coordinates

Station	Northing	Easting
Driveway Station 0+00.00	592623.90	1340054.79
Driveway Station 1+44.78	592601.04	1340197.77
Driveway Station 2+66.54	592597.74	1340297.89
Driveway Station 4+71.56	592451.94	1340466.82

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16, Zone RC-DEO, Tax Map No. 16, Election District 3rd, Census Tract 6030

Water Code J02, Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S.
DRAWN: J.L.M., K.B.W.
CHECKED: B.D.B.
DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWINGS: 2 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

U.S. ROUTE 40 Baltimore National Pike

(Ex. 200' RW)
PUBLIC - INTERMEDIATE ARTERIAL

LEGEND

---	EX. 2 FT. CONTOUR
---	PROP. 2 FT. CONTOUR
---	EX. 10 FT. CONTOUR
---	EX. TREES
---	EX. TREES TO REMAIN
---	STANDARD CURB & GUTTER
---	EX. G. STREAM
---	75' FT. STREAM BUFFER
---	BOUNDARY LINE
---	RIGHT OF WAY
---	EXISTING PAVING
---	EX. FENCE LINE
---	PROPOSED STORM DRAIN
---	EX. TELEPHONE POLE
---	TRAFFIC FLOW DIRECTION
---	PROTECTED AREA W/ 50D SEE SHEET 16 FOR LOCATION

"BOARD OF APPEALS - SETBACK LEGEND"

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.

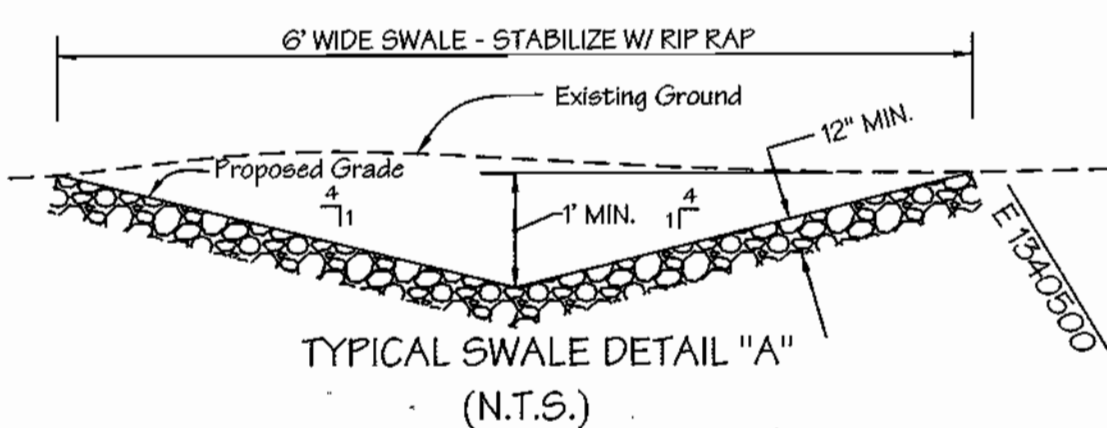
** A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.

PAVING LEGEND HO. CO. R. 2.01

P-1 Paving Section
P-2 Paving Section

NOTES:

1. Refer to sheets 11 & 12 for storm drain profiles and structure schedule.



Easement Legend

Stormwater Management Credit Easement
Forest Conservation Easement

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 14+41.19 - 15+48.29	108.00'	56°49'08"	107.10'	58.42'	553°01'27"E - 102.77'

Centerline Coordinates

Station	Northing	Easting
Driveway Station 14+41.19	592279.63	1341477.92

REVISIONS

No.	Date	Description

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Dennis Brando, M.D., Sr. 7-12-03
HOWARD COUNTY HEALTH OFFICER - SRM DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief Development Engineering Division 7/11/03
DATE

Chief, Division of Land Development 7/23/03
DATE

Director 7/23/03
DATE

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

Jim Lynn, Jr. 7/8/03
HOWARD SOIL CONSERVATION DISTRICT

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

Jim Lynn, Jr. 7/8/03
DATE

ENGINEER'S CERTIFICATE

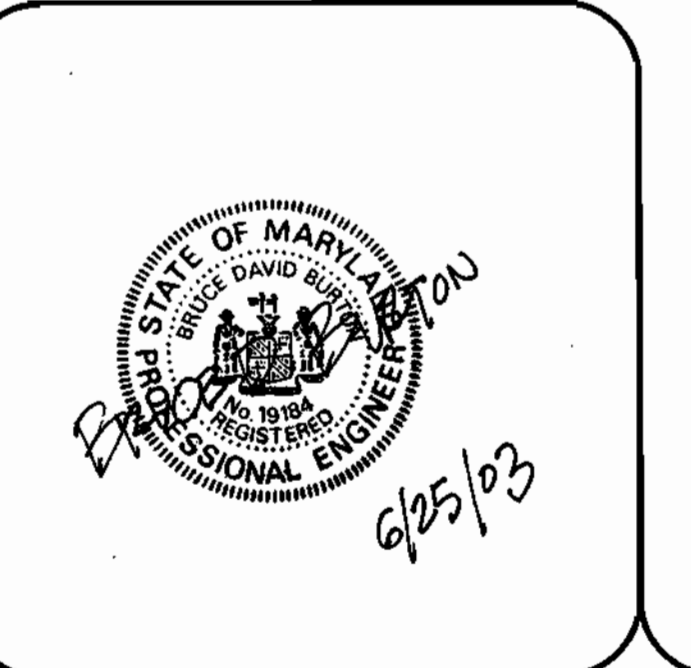
I certify that this plan for pond construction, soil erosion control represents a practical and workable plan based on the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the district of the construction of this project and have provided the district with an "as-built" plan of the project upon completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Price D. Brown 6/25/03
PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

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 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 project upon completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Price D. Brown 6/25/03
DATE



Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH Sect/Area: Parcel No. 203

Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Water Code J02				

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

SCALE: 1" = 40'
DRAWING: 3 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

PREVIOUS SUBMITTALS: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-06
OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

NOTES:

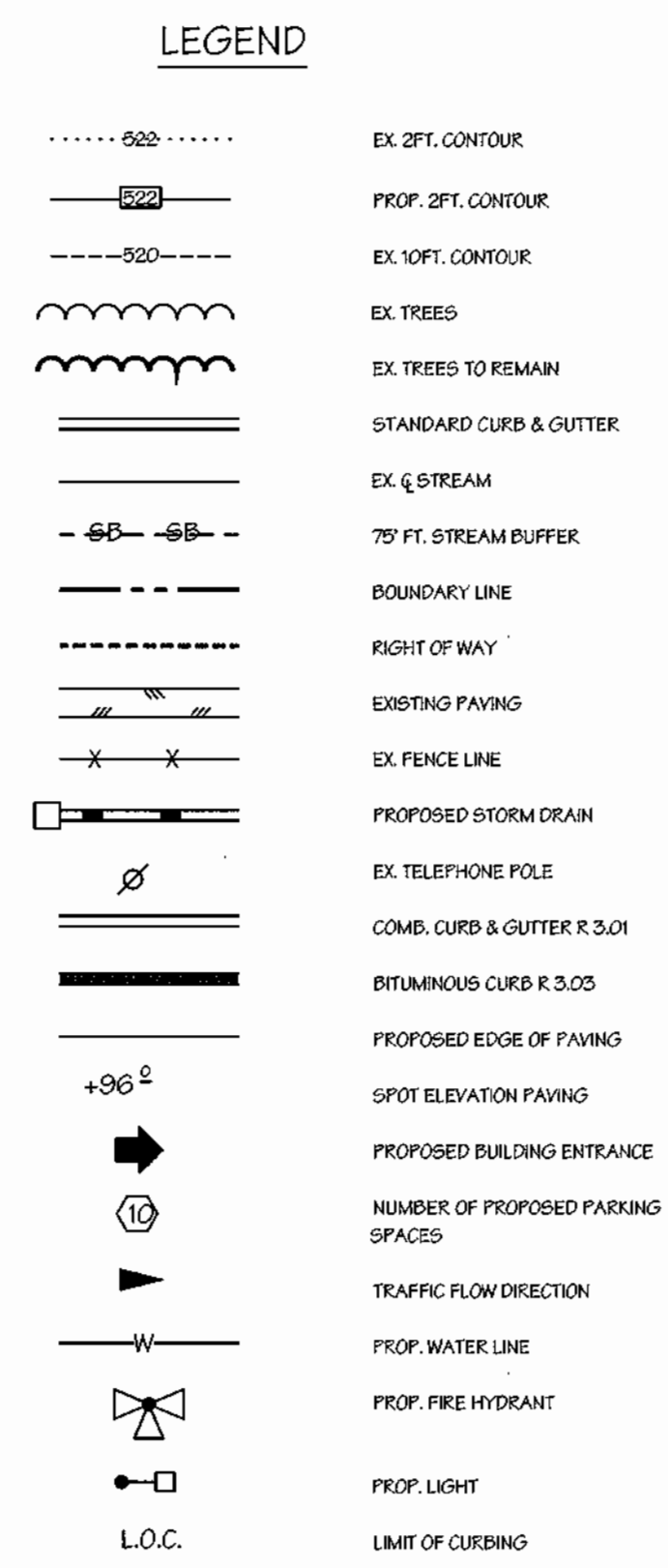
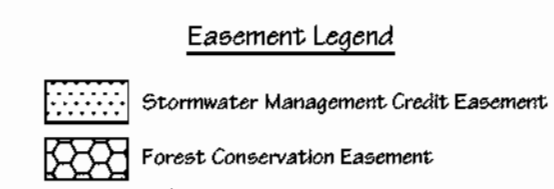
1. Refer to sheet 6 for details of Handicapped Parking Area Details
2. Refer to sheets 11 & 12 for storm drain profiles and structure schedule.
3. Refer to sheet 6 for Standard Curb details.
4. Refer to sheet 6 for Parking Lot Light Details.
5. The floor elevation is lower than the outside ground elevations therefore foundation waterproofing is required where shown hereon.
6. Bituminous Curb to be Transitioned to Conc. Curb & Gutter @ all Inlets.

HARBIN
4294 / 452
Parcel 204
Zoned: RC

"BOARD OF APPEALS - SETBACK LEGEND"

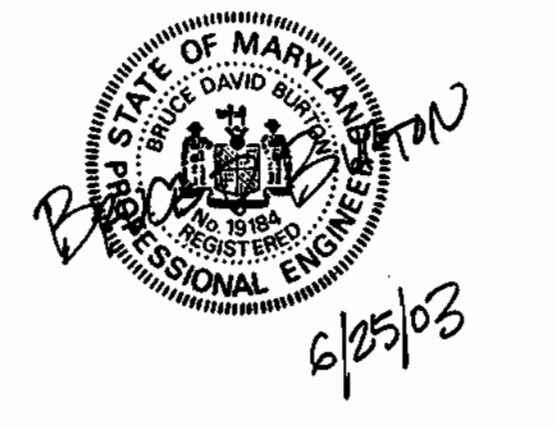
A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.



U.S. ROUTE 40
Baltimore National Pike
Public - Intermediate Arterial
Ex. 200' R/W

P/O PRIVATE FOREST CONSERVATION EASEMENT AREA #5 AND STORMWATER MANAGEMENT CREDIT EASEMENT
1,655 Ac. ±
Vehicular Ingress & Egress is Restricted



ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion control, and site stabilization represents a practical and workable plan based on my personal knowledge of the conditions. This plan was prepared in accordance with the regulations of the Maryland Department of General Services, Conservation District. I have notified the developer that I am a registered professional engineer to supervise pond construction and site stabilization within the Conservation District.

David P. Burton
SIGNATURE OF ENGINEER
DATE: 6/25/03

DEVELOPER'S CERTIFICATE

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 shall engage a registered professional engineer to supervise pond construction and site stabilization within the Conservation District with an "as-built" plan of completion 30 days of completion. I also authorize inspections by the Conservation District.

David P. Burton
SIGNATURE OF DEVELOPER
DATE: 6/25/03

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH Sect/Area: Parcel/No. 203

Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Water Code JO2	Sewer Code N/A			

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S., B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
4495F-429
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

PREVIOUS SUBMITTALS: BA 97-46E, BA 00-36E, BA 01-64V, WF 03-06, F 03-96

OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 10B
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 4 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

Centerline Coordinates

Station	Northing	Easting
Driveway Station 15+48.29	592217.81	1341560.01
Driveway Station 16+68.71	592144.24	1341690.08
Driveway Station 18+16.53	592069.25	1341774.60

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 15+48.29 - 15+48.29	108.00'	156° 49' 08"	107.17'	56.42'	S93° 01' 27" E - 102.77'
Driveway - 15+48.29 - 16+68.71	132.00'	92° 10' 09"	120.42'	64.76'	S95° 44' 58" E - 116.29'
Driveway - 16+68.71 - 18+16.53	233.89'	36° 12' 40"	147.82'	76.47'	S58° 56' 44" E - 148.37'

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Deanna Harvath
HOWARD COUNTY HEALTH OFFICER
DATE: 7-12-03

APPROVED: DEPARTMENT OF PLANNING AND ZONING

David P. Burton
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/1/03

Cindy Harvath
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/23/03

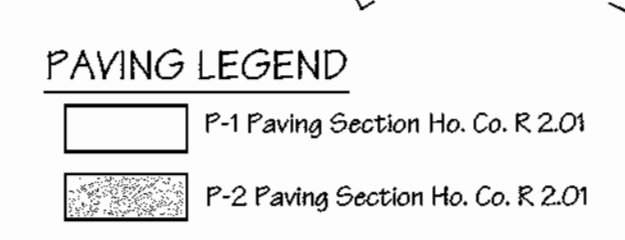
Mark A. Cogan
DIRECTOR
DATE: 7/24/03

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

Jia Anja
LOCAL NATURAL RESOURCE CONSERVATION SERVICE
DATE: 7/8/03

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

Maria
HOWARD SOIL CONSERVATION DISTRICT
DATE: 7/8/03



Plan/Proj: ES25/CONSDS/MD/SDP/02-05; SDP (4), 6/25/2003 6:28:16 AM

LEGEND

- 500 --- EX. 2FT. CONTOUR
- 520 --- EX. 2FT. CONTOUR
- 540 --- EX. 10FT. CONTOUR
- 560 --- EX. TREES
- 580 --- EX. TREES TO REMAIN
- 600 --- STANDARD CURB & GUTTER
- 620 --- EX. STREAM
- 64 --- 75' FT. STREAM BUFFER
- 66 --- BOUNDARY LINE
- 68 --- RIGHT OF WAY
- 70 --- EXISTING PAVING
- 72 --- EX. FENCE LINE
- 74 --- PROPOSED STORM DRAIN
- 76 --- EX. TELEPHONE POLE
- 78 --- SOIL BORING

"BOARD OF APPEALS - SETBACK LEGEND"

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.

SUMMARY TABLE FOR STUDY POINT #3

PRIVATE POND # 2 - Shallow Wetland W-1
Private Maintenance - Hazard Classification "A"
Drainage Area = 15.88 Acres
Groundwater Recharge Volume (Rv) Required = 40,729 cu.ft.
Groundwater Recharge Volume (Rv) Provided = 115,700 cu.ft.
Water Quality Volume (WQV) Required = 15,804 cu.ft.
Water Quality Volume (WQV) Provided = 16,700 cu.ft.
Channel Protection Volume (CPV) Required = 0.80 cu.ft.
Channel Protection Volume (CPV) Provided = 0.96 cu.ft.

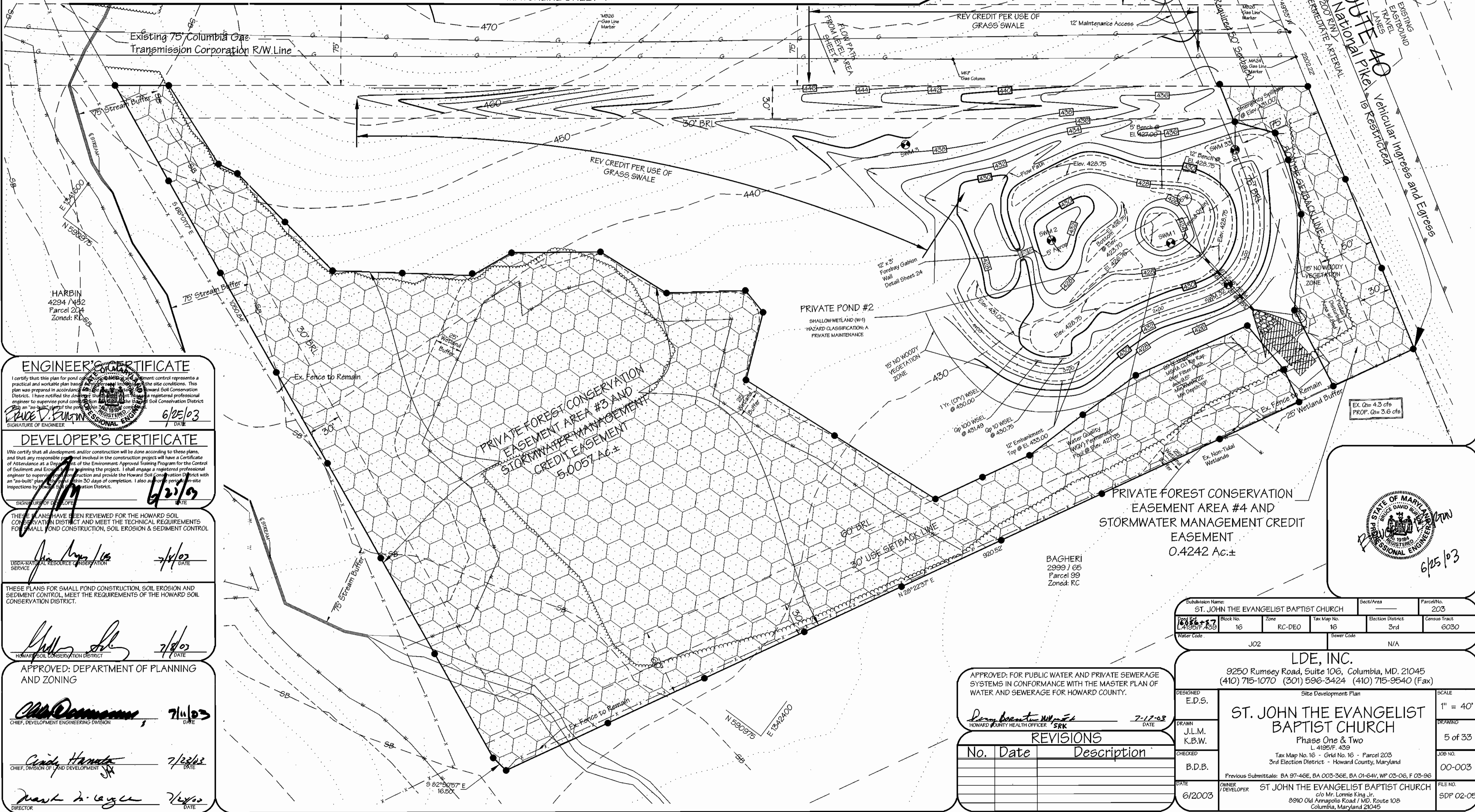
* Automatically provided per use of "Grass Channel" and for the No-Roofing Disconnection Credit - Percent Area Comp = 30.00 sq.ft. of impervious area drains directly into grass channels
* The additional 2,870 sq.ft. of impervious area required to meet the Rv requirement drains indirectly into grass channels from the proposed storm drain system.
** Whole Pond Wet Foot
*** Cpr required is for 27 acre Study Point Area
Cpr provided is within Pond #2 for the 15.88 acre Drainage Area

	1 Year (Cpr)	10 Year (Cpr)	100 Year (Cpr)	
Trial Existing Flow	(cfs)	4.5	41.4	85.6
Unmanaged Flow	(cfs)	3.5	28.1	50.9
Acceptable Release*	(cfs)	0.6	N/A	N/A
Computed Inflow	(cfs)	16.5	53.0	85.5
Facility Discharge	(cfs)	0.5	17.5	48.9
Elevation at Discharge	(MFT)	450.00	450.75	451.49
Storage at Elevation	(M ³)	1.25	1.97	2.47
Total Developed Flow	(cfs)	3.6	37.2	92.2

Easement Legend

- Stormwater Management Credit Easement
- Forest Conservation Easement

MATCHLINE SHEET 4



ENGINEER'S CERTIFICATE

I certify that this plan for pond construction and stormwater management control represents a practical and workable plan based on the site conditions. This plan was prepared in accordance with the Howard Soil Conservation District. I have notified the district of the construction of a registered professional engineer to supervise pond construction and the Howard Soil Conservation District as an "in-lieu" fee for the pond. I also will provide site inspections to the Howard Soil Conservation District.

6/25/03
DATE

DEVELOPER'S CERTIFICATE

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 shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "in-lieu" fee for the pond from 30 days of completion. I also will provide site inspections to the Howard Soil Conservation District.

6/25/03
DATE

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

7/4/03
DATE

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

7/8/03
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

7/14/03
DATE

7/28/03
DATE

7/29/03
DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

7-17-03
DATE

REVISIONS		
No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH		Sect/Area	Parcel No.
Block No. 16		Zone RC-DEO	Tax Map No. 16
Election District - 3rd		Census Tract 6030	
Water Code JO2	Sewer Code	N/A	

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S.
DRAWN: J.L.M., K.B.W.
CHECKED: B.D.B.
DATE: 6/2003

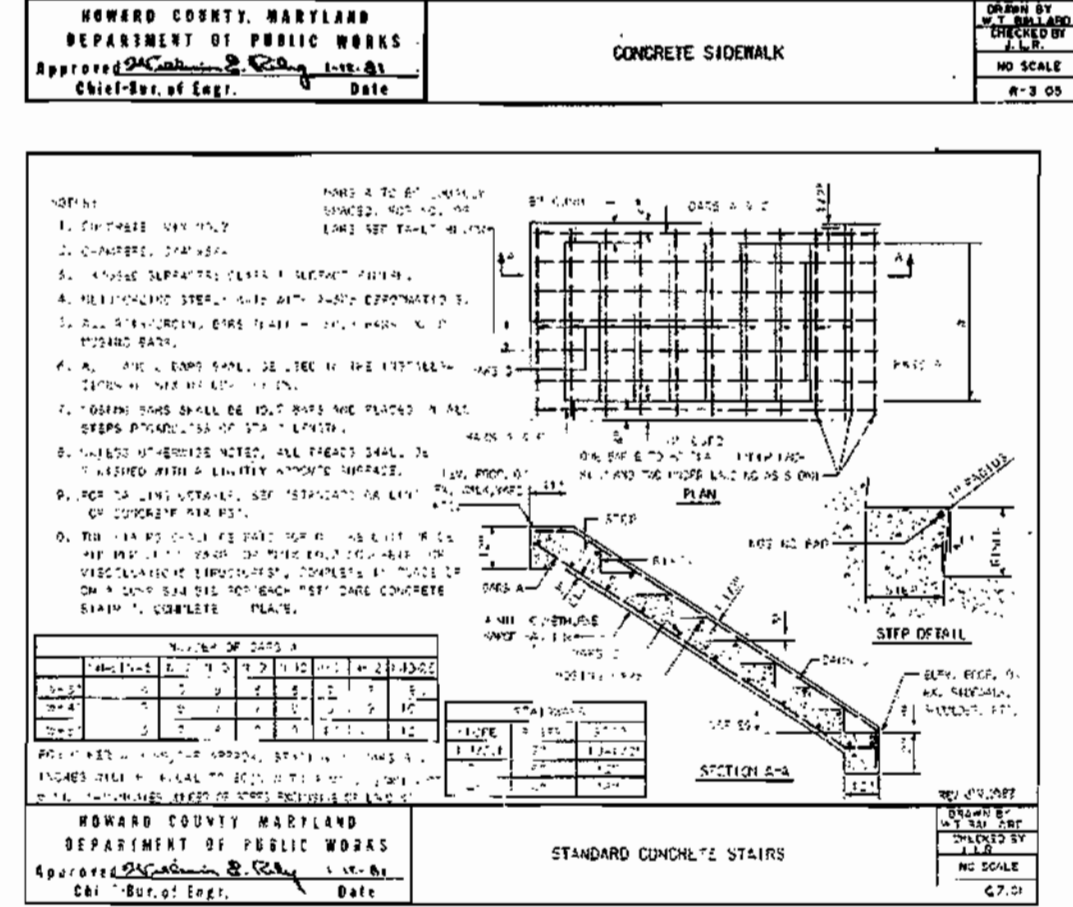
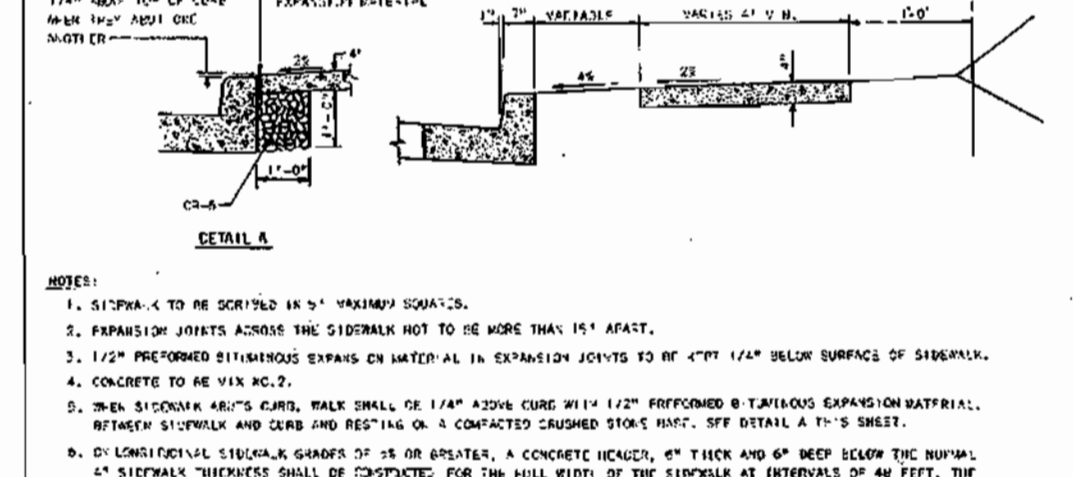
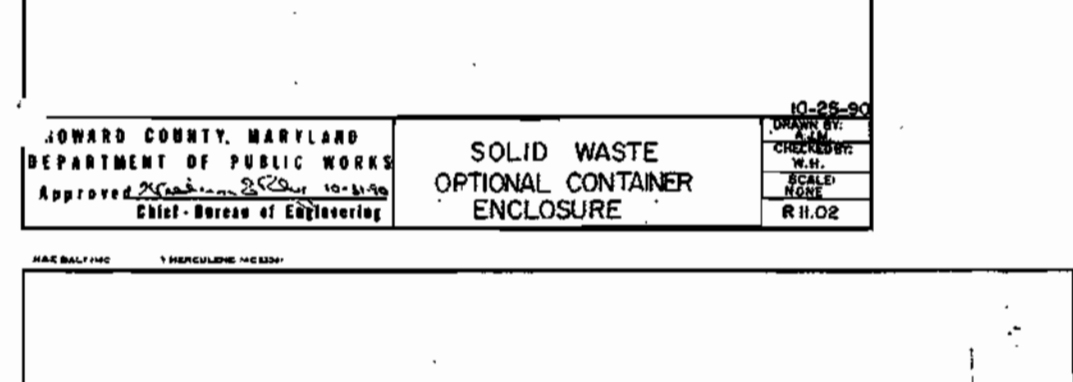
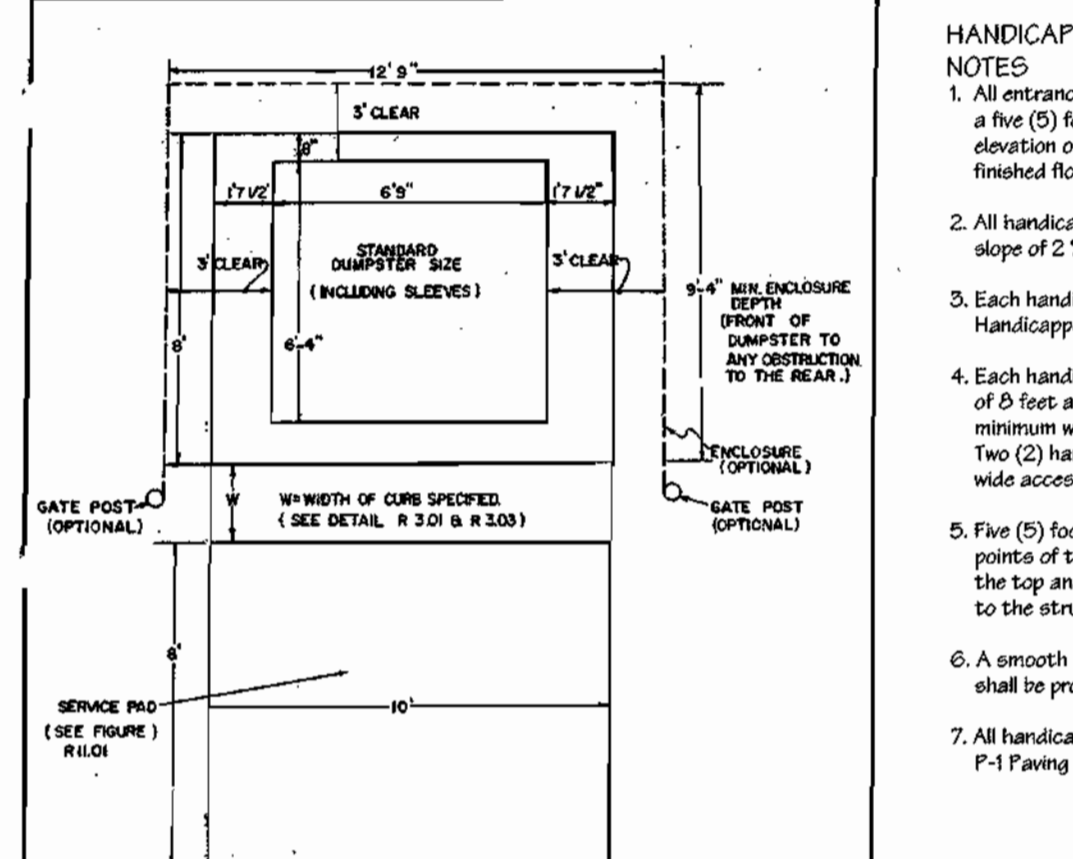
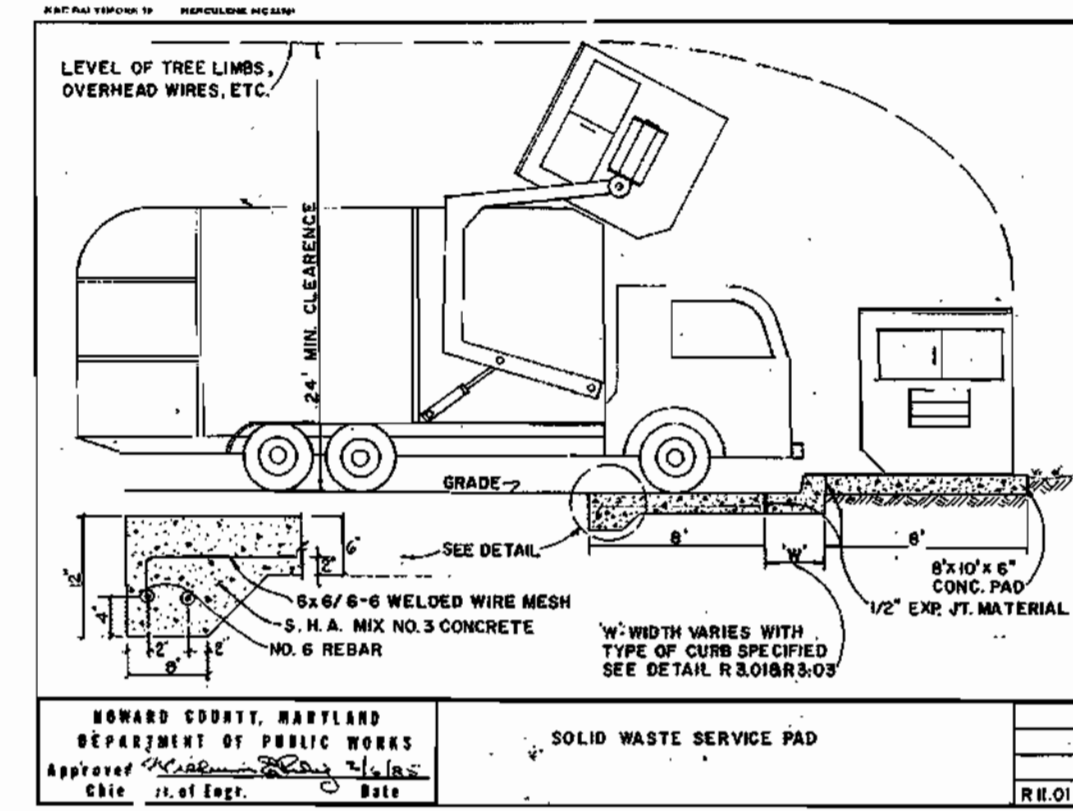
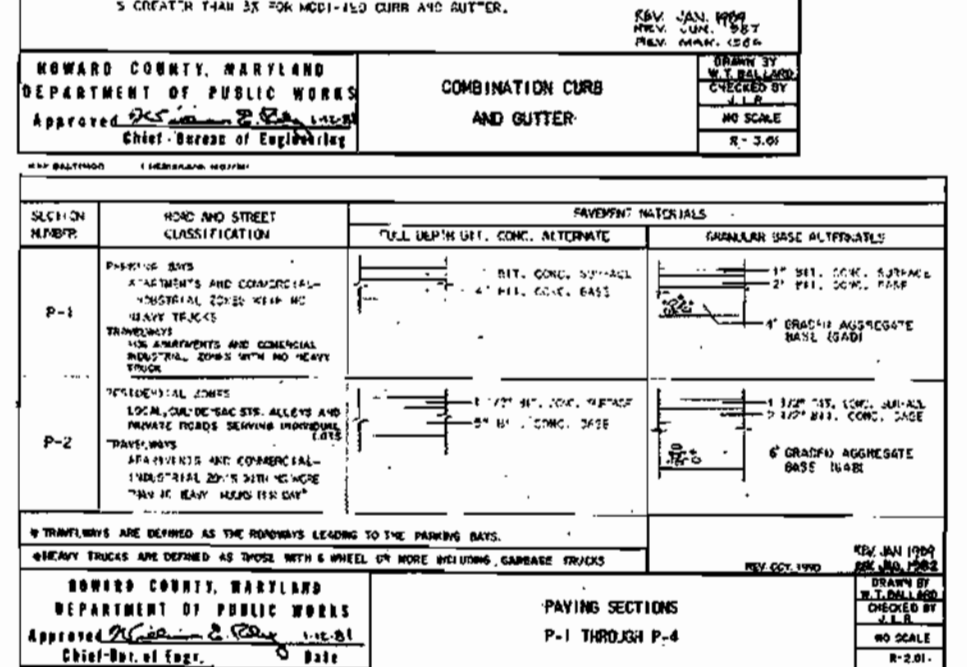
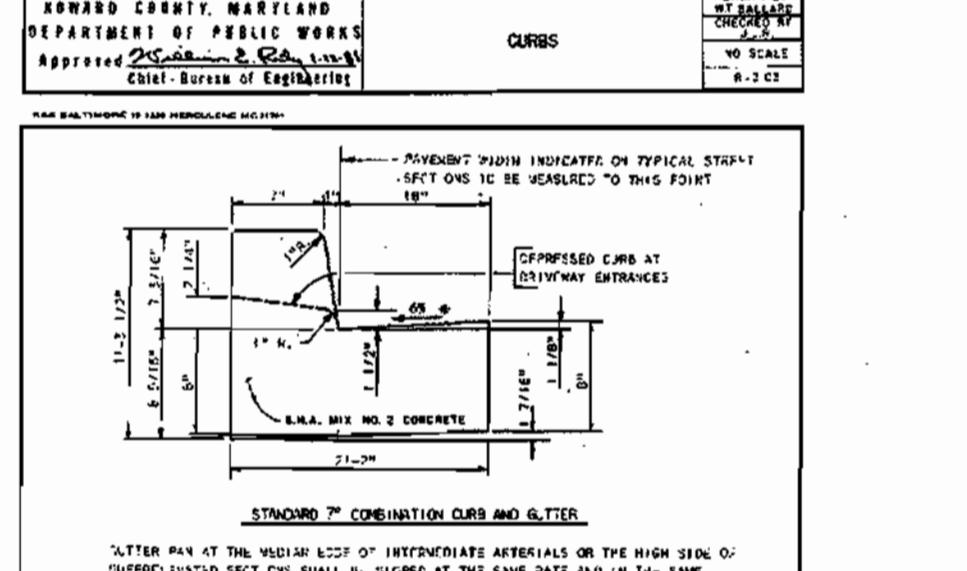
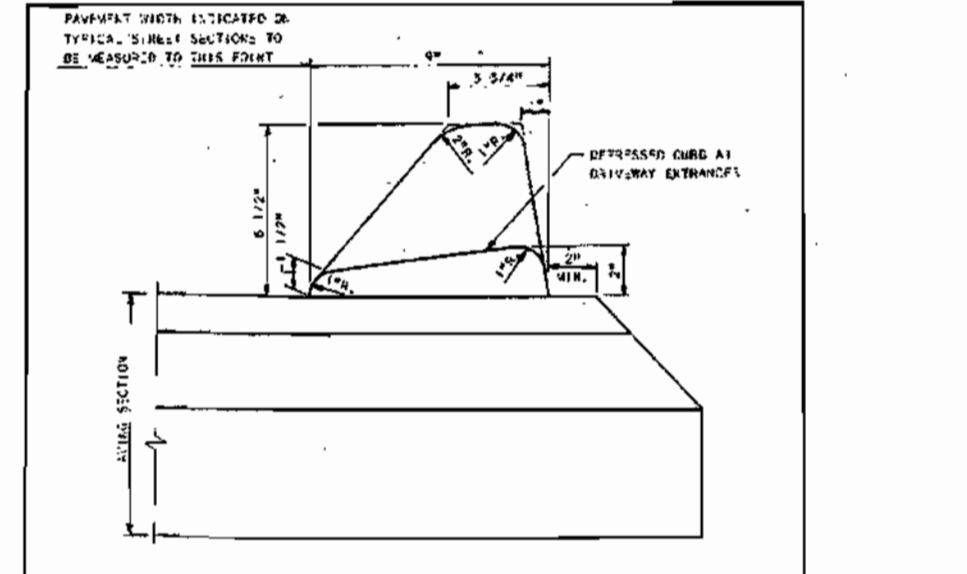
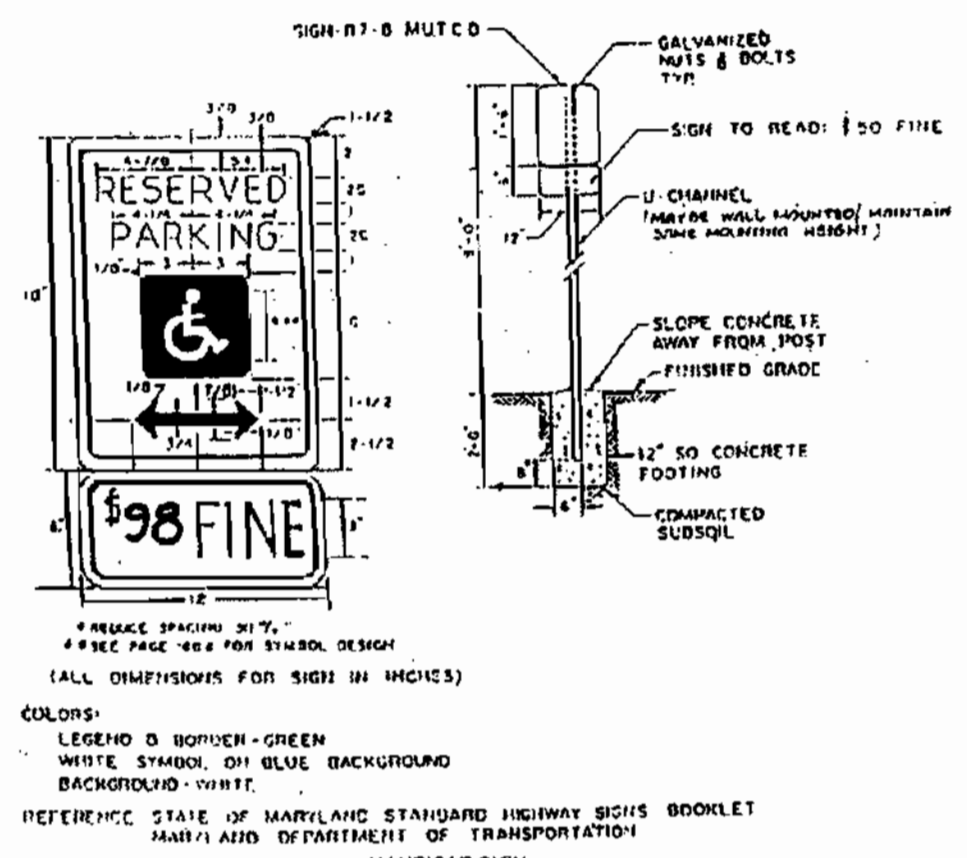
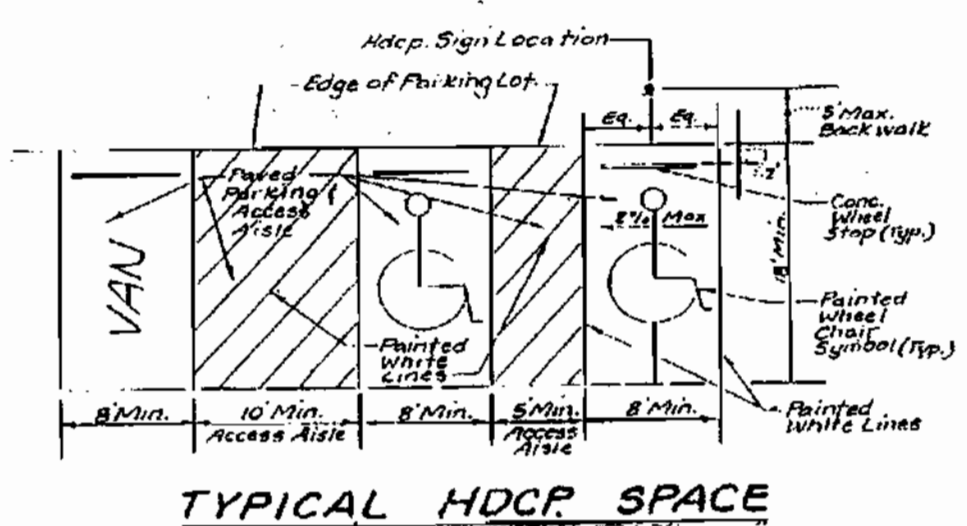
ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 003-36E, BA 01-64V, WP 03-06, F 03-98

OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lornie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 5 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

Plan and Project: E2511, LHM/S/Map/SDP/Map, SDPA 15, 6/25/2003, 6:22:39 AM

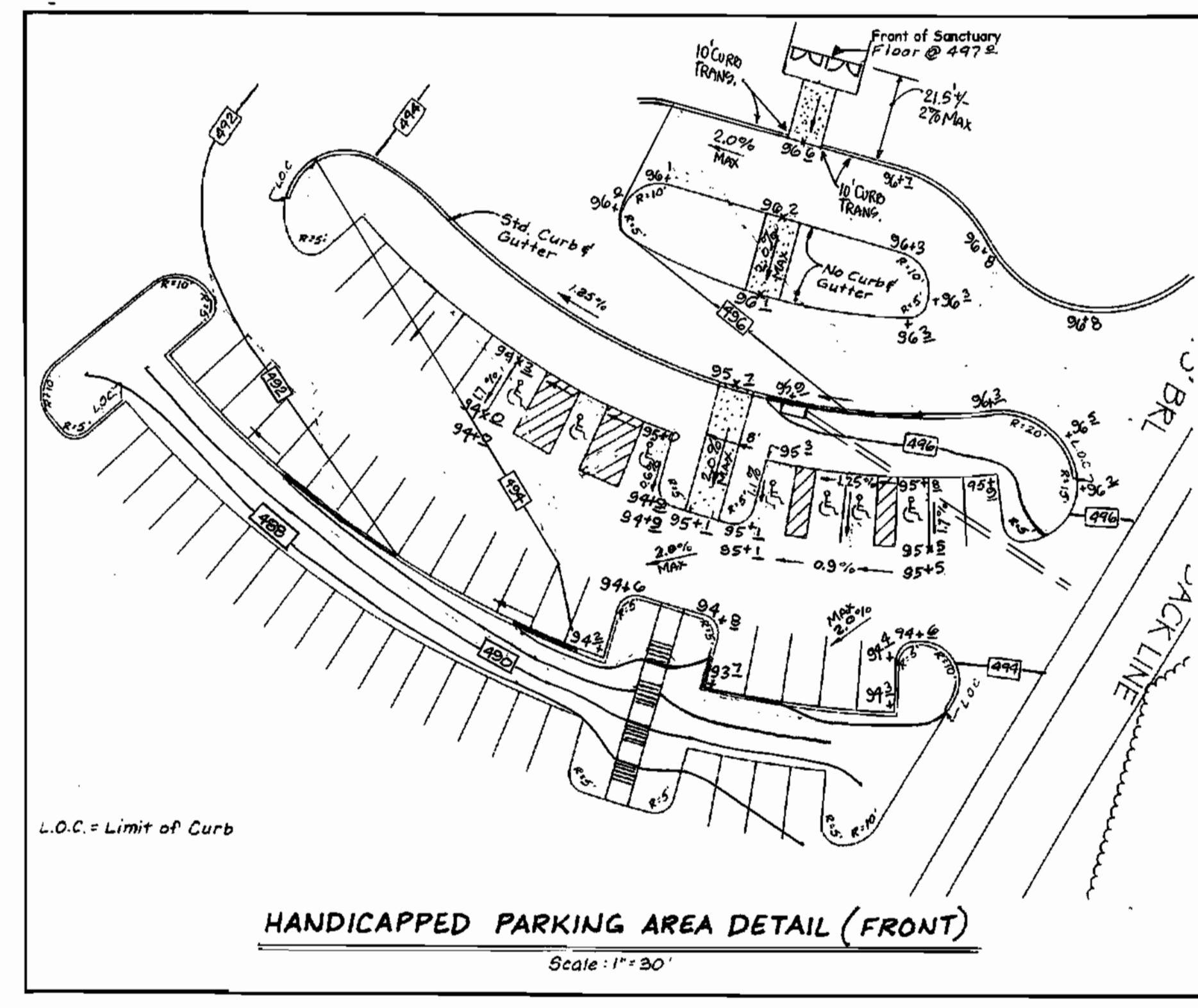
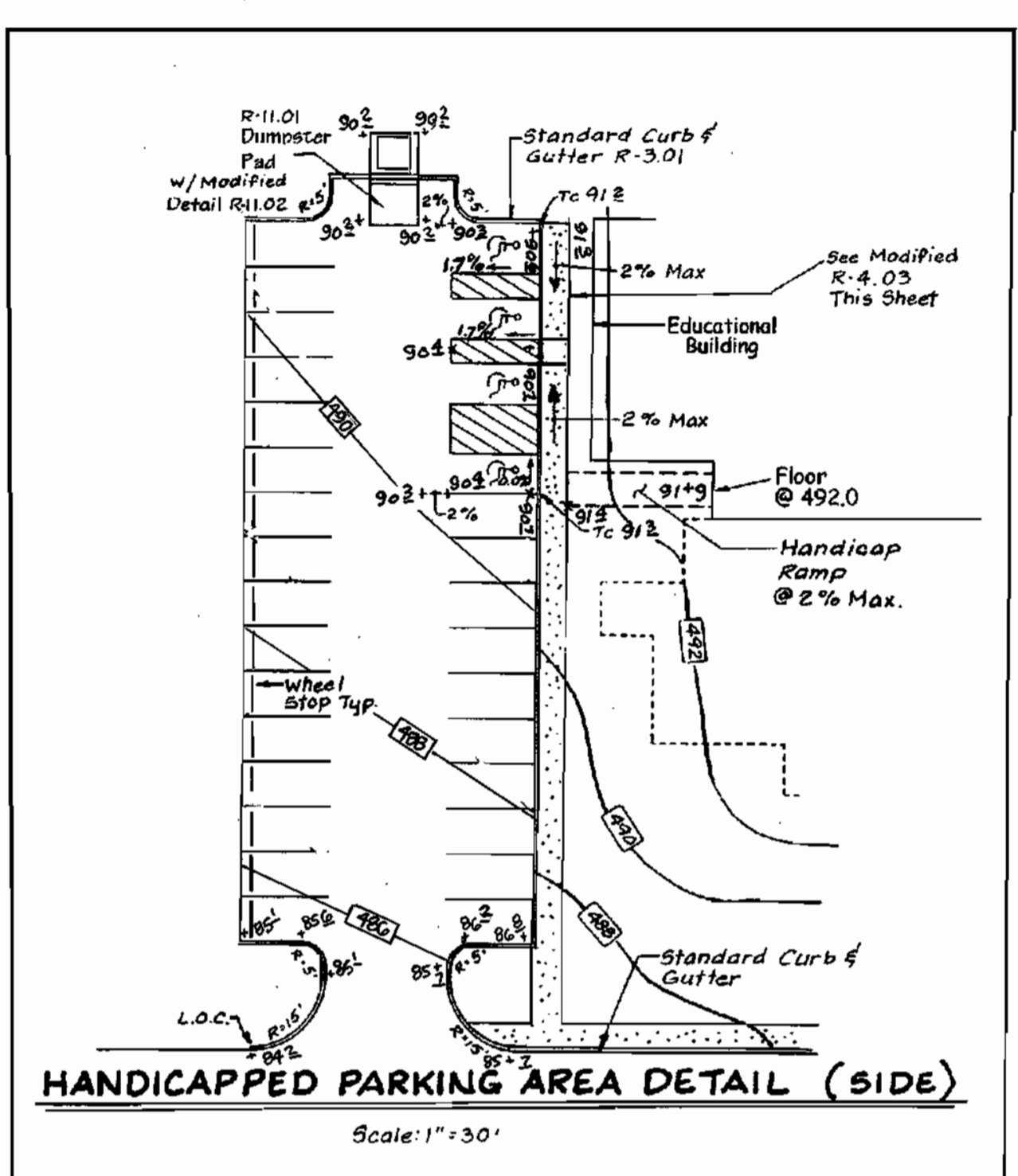
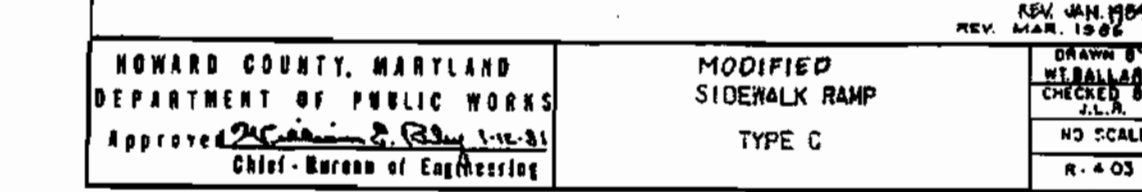
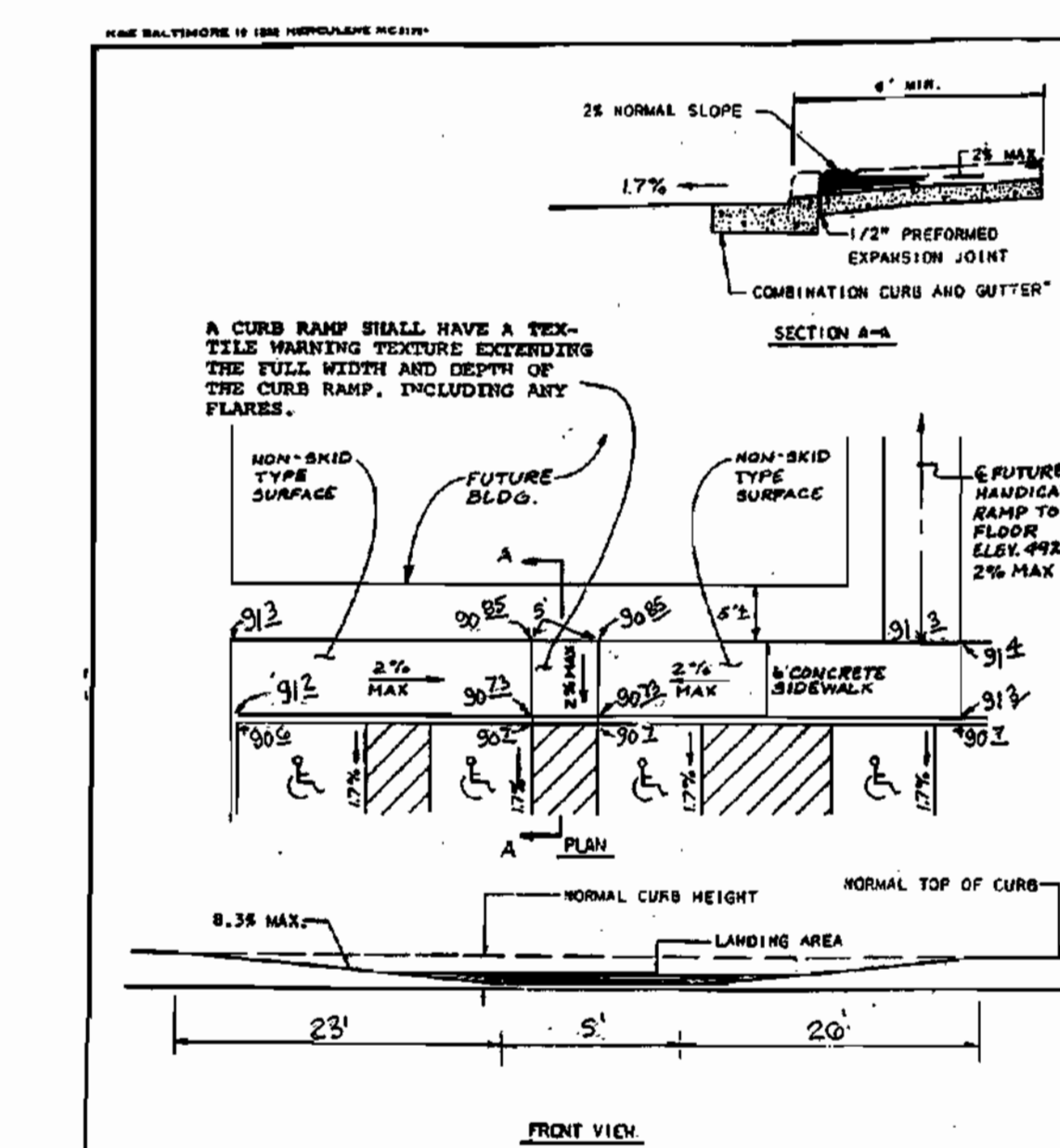


HANDICAPPED PARKING AREA NOTES

- All entrances used by the handicapped shall be provided with a five (5) foot minimum textured non-slip level landing. The elevation of the level landing shall be coincident with the finished floor elevation of the building.
- All handicapped parking areas are restricted to a maximum slope of 2% (1:50).
- Each handicapped parking space shall be provided with a Handicapped sign and fine sign.
- Each handicapped parking space shall be a minimum width of 9 feet and shall have an adjacent access aisle with a minimum width of 5 feet for a total width of 14 feet. Two (2) handicapped spaces may share a common 5 foot wide access aisle.
- Five (5) foot long level landings shall be provided at all points of turning within the handicapped accessway, at the top and bottom of all ramps and at the main entrance to the structures.
- A smooth transition between all non-similar surfaces shall be provided.
- All handicapped parking spaces to be paved using P-1 Paving Section (R 2.01).

TRAFFIC CONTROL SIGN LEGEND

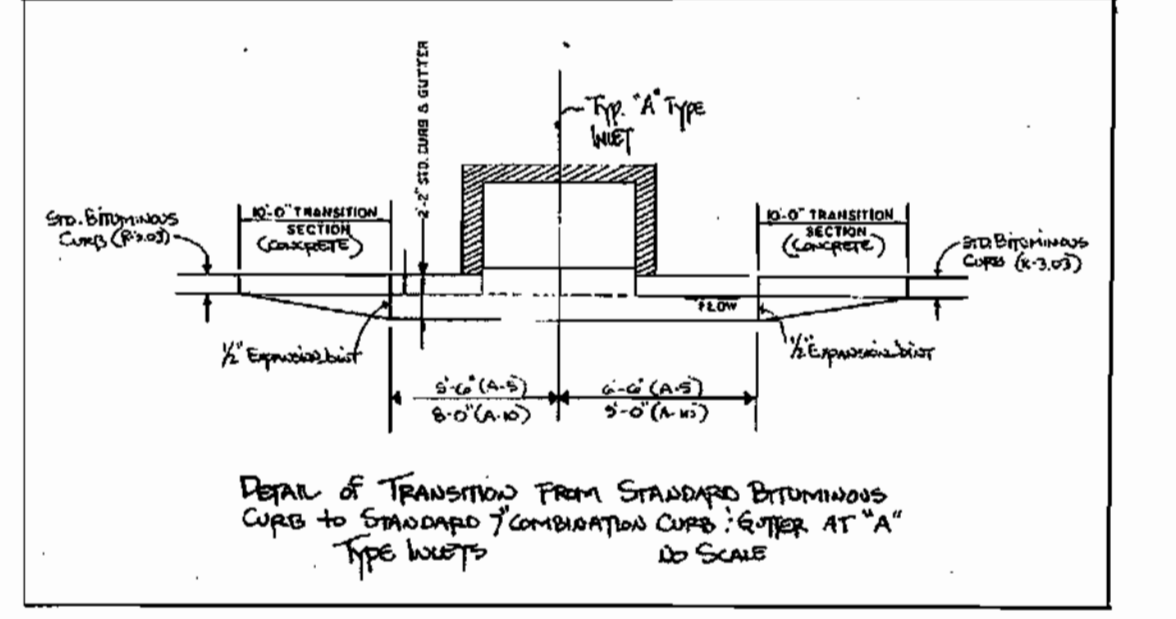
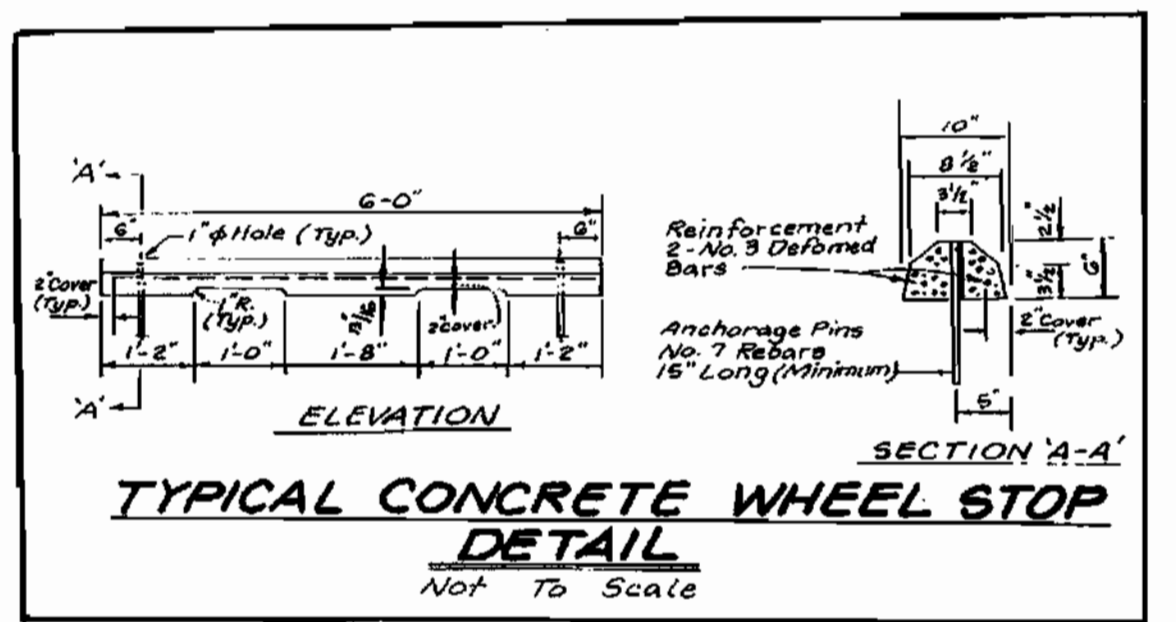
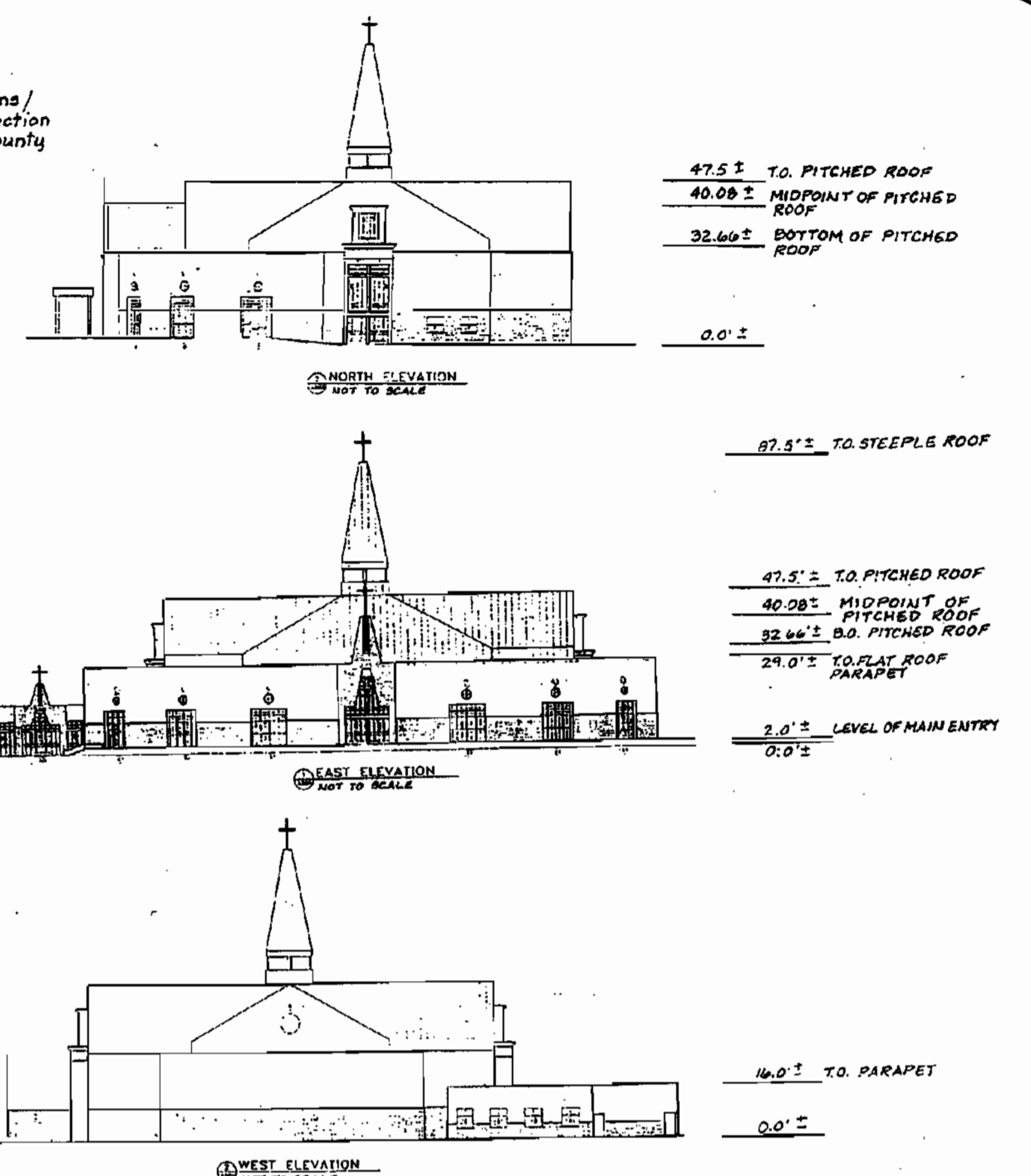
SYMBOL	STREET NAME	STATION	OFFSET	TYPE
—	Driveway	0+54	24' LT	R-1, "Stop" Sign, 30" x 30" Octagon



STREET LIGHT LEGEND

STREET NAME	SYMBOL	CENTERLINE	OFFSET	LAMP TYPE	POST TYPE	POLE TYPE
Marriottville Road	●	6+36	25' LT	250 Watt HPS	Pendant Fixture (SAG)	(Mounted on the Relocated BGE Pole #116501 Using 12' Arm See Sheet 2

NOTE: Steeple is exempt from height restrictions/considerations per Section 12B of the Howard County Zoning Regulations.



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7/17/03
HOWARD COUNTY HEALTH OFFICER

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/16/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/16/03
DIRECTOR

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

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* Chief Bureau of Engineering

ENGINEER'S CERTIFICATE

I hereby certify that this plan for the construction of a pond and sediment control represents a practical and workable design for 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 engineer to expedite pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 90 days of completion. I also authorize periodic on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

I hereby certify that all development and/or construction will be done according to these plans, and that any responsible persons 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 expedite pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 90 days of completion. I also authorize periodic on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER

STATE OF MARYLAND
PROFESSIONAL ENGINEER
[Signature] 6/25/03

REVISIONS

No.	Date	Description

Subdivision Name: **ST. JOHN THE EVANGELIST BAPTIST CHURCH** Sect/Area: 203
Block No. 16 Zone RC-DEO Tax Map No. 16 Election District 3rd Census Tract 6030
Water Code JO2 Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. SCALE: As Shown
DRAWN: S.T.B. DRAWING: 6 of 33
CHECKED: D.J.M. JOB NO.: 00-003
DATE: 6/20/03 OWNER: ST. JOHN THE EVANGELIST BAPTIST CHURCH FILE NO.: SDP 02-05
DEVELOPER: 8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. Q. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE

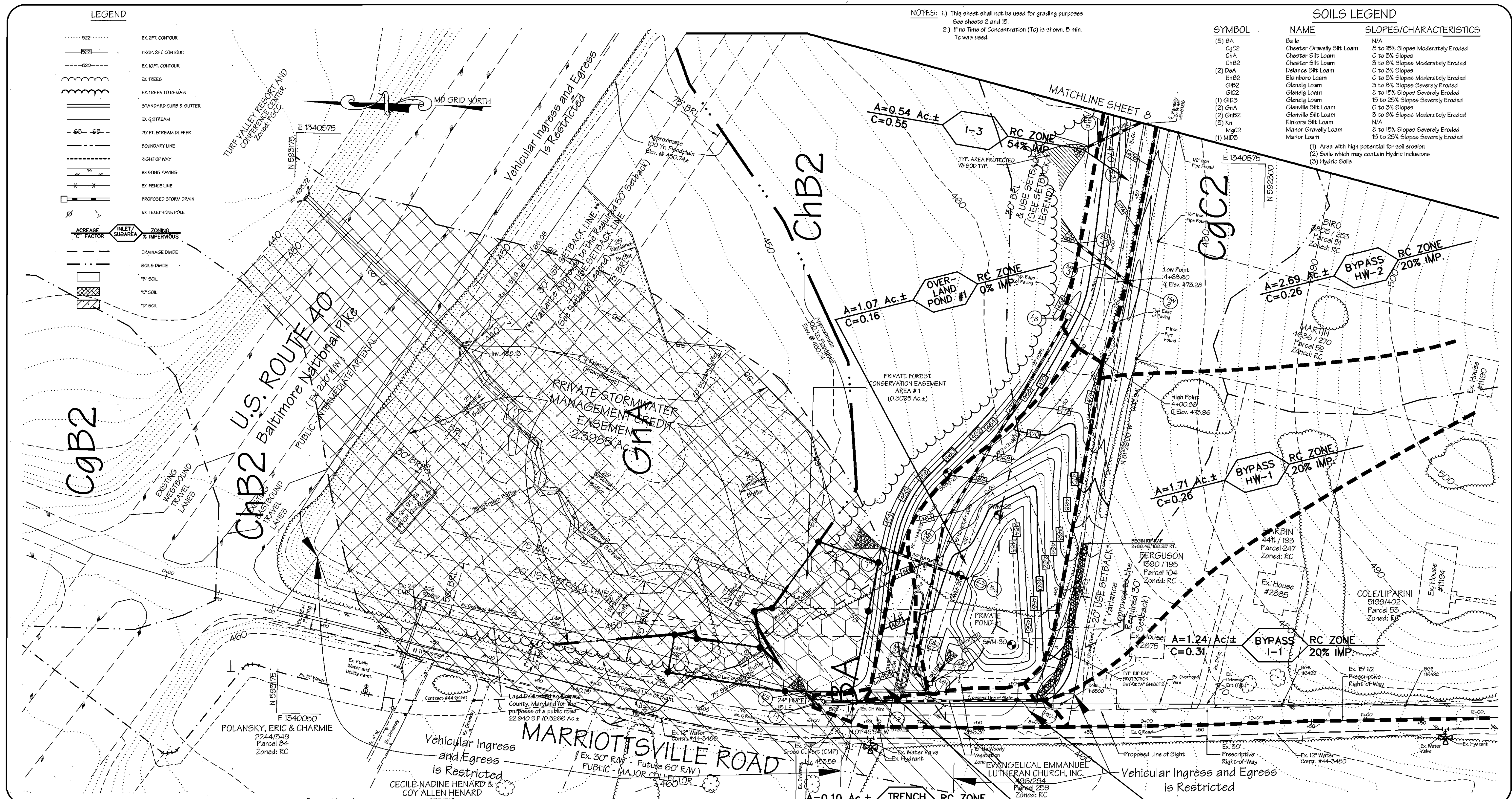
- ACREAGE ZONING INLET SUBAREA % IMPERVIOUS
- 520 --- DRAINAGE DIVIDE
- 520 --- SOILS DIVIDE
- 520 --- 1" SOIL
- 520 --- 7" SOIL
- 520 --- 17" SOIL

NOTES: 1.) This sheet shall not be used for grading purposes. See sheets 2 and 15.
2.) If no Time of Concentration (Tc) is shown, 5 min. Tc was used.

SOILS LEGEND

SYMBOL	NAME	SLOPES/CHARACTERISTICS
(3) BA	Baile	N/A
CgC2	Chester Gravelly Silt Loam	8 to 15% Slopes Moderately Eroded
ChA	Chester Silt Loam	0 to 3% Slopes
ChB2	Chester Silt Loam	3 to 8% Slopes Moderately Eroded
(2) DeA	Dalzell Silt Loam	0 to 3% Slopes
EnB2	Elsinboro Loam	0 to 3% Slopes Moderately Eroded
GnB2	Glenelg Loam	3 to 8% Slopes Severely Eroded
GnC2	Glenelg Loam	8 to 15% Slopes Severely Eroded
(1) GID3	Glenelg Loam	15 to 25% Slopes Severely Eroded
(2) GmA	Glenville Silt Loam	0 to 3% Slopes
(2) GmB2	Glenville Silt Loam	3 to 8% Slopes Moderately Eroded
(3) Kn	Kinkora Silt Loam	N/A
MgC2	Manor Gravelly Loam	8 to 15% Slopes Severely Eroded
(1) MID3	Manor Loam	15 to 25% Slopes Severely Eroded

(1) Area with high potential for soil erosion
(2) Soils which may contain hydric inclusions
(3) Hydric Soils



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
[Signature] 7-19-03 DATE
HOWARD COUNTY HEALTH OFFICER - SRK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 7/11/03 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/02 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/02 DATE
DIRECTOR

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

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

ENGINEER'S CERTIFICATE
I certify that the stormwater management and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not observed any violations of the Howard Soil Conservation District's "as-built" plan of the site within the scope of completion. I also authorize periodic on-site inspections of the Howard Soil Conservation District.
[Signature] 6/25/03 DATE
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE
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. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the site within the scope of completion. I also authorize periodic on-site inspections of the Howard Soil Conservation District.
[Signature] 6/25/03 DATE
SIGNATURE OF DEVELOPER

INGRESS & EGRESS - Allowed Q Driveway Entrance

[Signature] 6/25/03 DATE
PROFESSIONAL ENGINEER

A=0.10 Ac.± C=0.87 1-1 RC ZONE 100% IMP.

REVISIONS		
No.	Date	Description

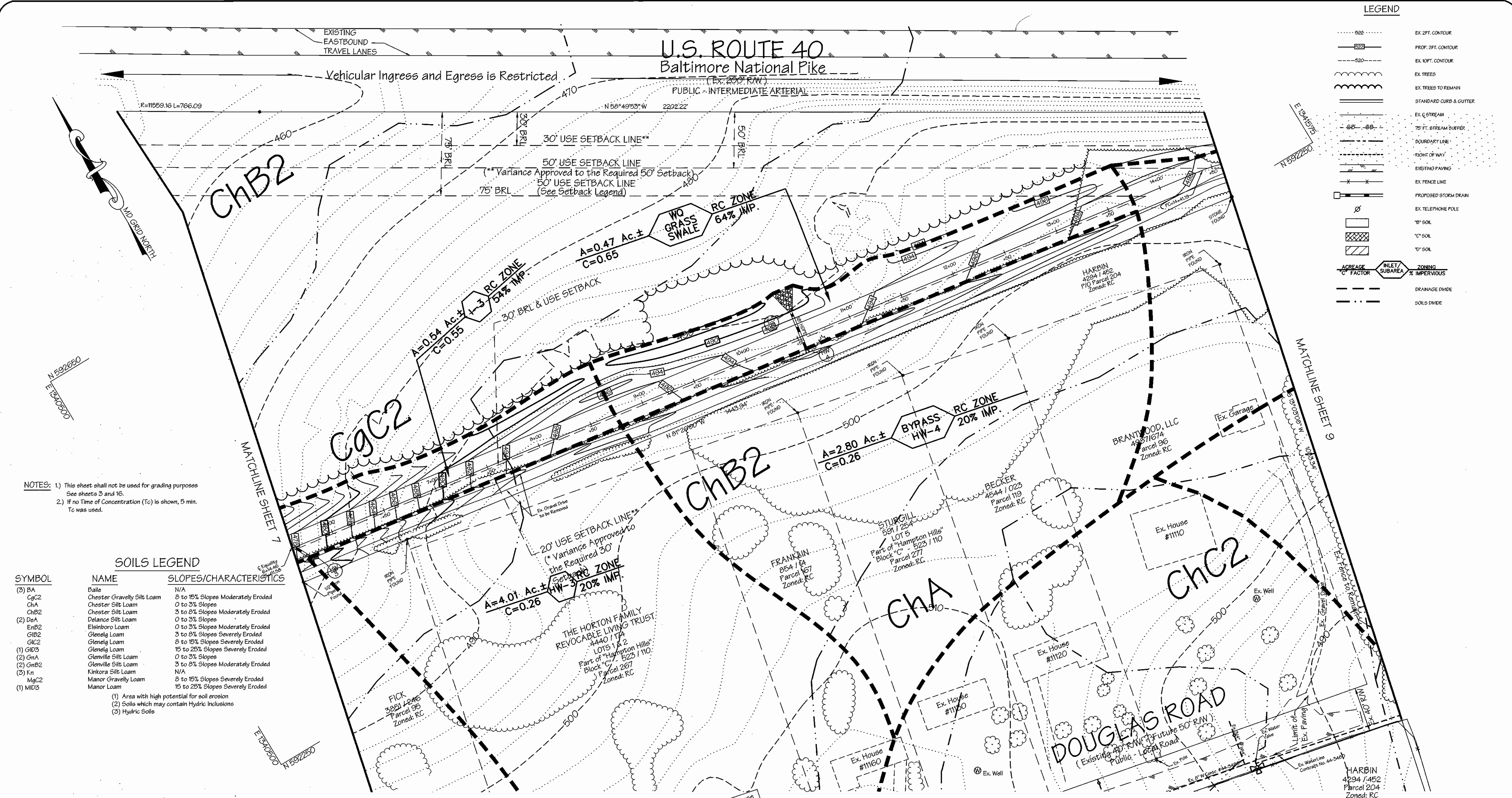
Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area: ---	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Election District: 3rd	Census Tract: 6030	Water Code: J02
Drainage Area: ---	Drainage Area Map: ---	Scale: 1" = 40'

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96
OWNER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
DEVELOPER: c/o Mr. Lomie King, Jr.
2910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

DATE: 6/20/03
FILE NO.: SDP 02-05



LEGEND

---	EX. 2FT. CONTOUR
---	PROP. 2FT. CONTOUR
---	EX. 10FT. CONTOUR
---	EX. TREES
---	EX. TREES TO REMAIN
---	STANDARD CURB & GUTTER
---	EX. C&G
---	75' FT. STREAM BUFFER
---	BOUNDARY LINE
---	RIGHT OF WAY
---	EXISTING PAVING
---	EX. FENCE LINE
---	PROPOSED STORM DRAIN
---	EX. TELEPHONE POLE
---	T ⁸ SOIL
---	T ⁷ SOIL
---	T ⁶ SOIL
---	ZONING
---	ACREAGE FACTOR
---	INLET / SUBAREA
---	% IMPERVIOUS
---	DRAINAGE DIVIDE
---	SOILS DIVIDE

NOTES: 1) This sheet shall not be used for grading purposes. See sheets 3 and 16.
2) If no Time of Concentration (Tc) is shown, 5 min. Tc was used.

SOILS LEGEND

SYMBOL	NAME	SLOPES/CHARACTERISTICS
(3) BA	Balls	N/A
CgC2	Chester Gravelly Silt Loam	0 to 15% Slopes Moderately Eroded
ChA	Chester Silt Loam	0 to 3% Slopes
ChB2	Chester Silt Loam	3 to 8% Slopes Moderately Eroded
(2) DeA	Dalence Silt Loam	0 to 3% Slopes
EnB2	Elsinboro Loam	0 to 3% Slopes Moderately Eroded
GIB2	Glenelg Loam	3 to 8% Slopes Severely Eroded
GIC2	Glenelg Loam	0 to 15% Slopes Severely Eroded
(1) GID3	Glenelg Loam	15 to 25% Slopes Severely Eroded
(2) GHA	Glenville Silt Loam	0 to 3% Slopes
(2) GHB2	Glenville Silt Loam	3 to 8% Slopes Moderately Eroded
(3) Kn	Kinkora Silt Loam	N/A
MgC2	Manor Gravelly Loam	0 to 15% Slopes Severely Eroded
(1) MID3	Manor Loam	15 to 25% Slopes Severely Eroded

(1) Area with high potential for soil erosion
(2) Soils which may contain Hydric Inclusions
(3) Hydric Soils

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
[Signature] 7-17-03
HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/23/03
CHIEF, DIVISION OF PLANNING AND DEVELOPMENT JR DATE

[Signature] 7/23/03
DIRECTOR DATE

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

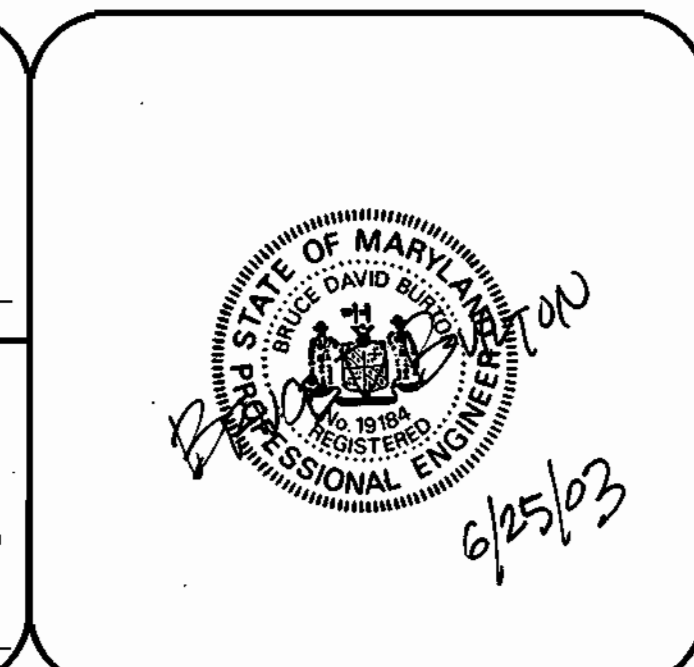
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
I certify that the plans for this project and sediment control represents a practical and workable design based on my 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 and engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the project upon completion.

[Signature] 6/25/03
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
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. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize public on-site inspection by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER DATE



CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 14+41.19 - 15+48.29	108.00'	56°49'06"	107.10'	58.42'	S53°01'27"E - 102.77'

Subdivision Name:	ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area:		Parcel No.:	203
Block No.:	16	Zone:	RC-DEO	Tax Map No.:	16
Block No.:	439	Election District:	3rd	Census Tract:	6030
Water Code:	J02	Sewer Code:	N/A		

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

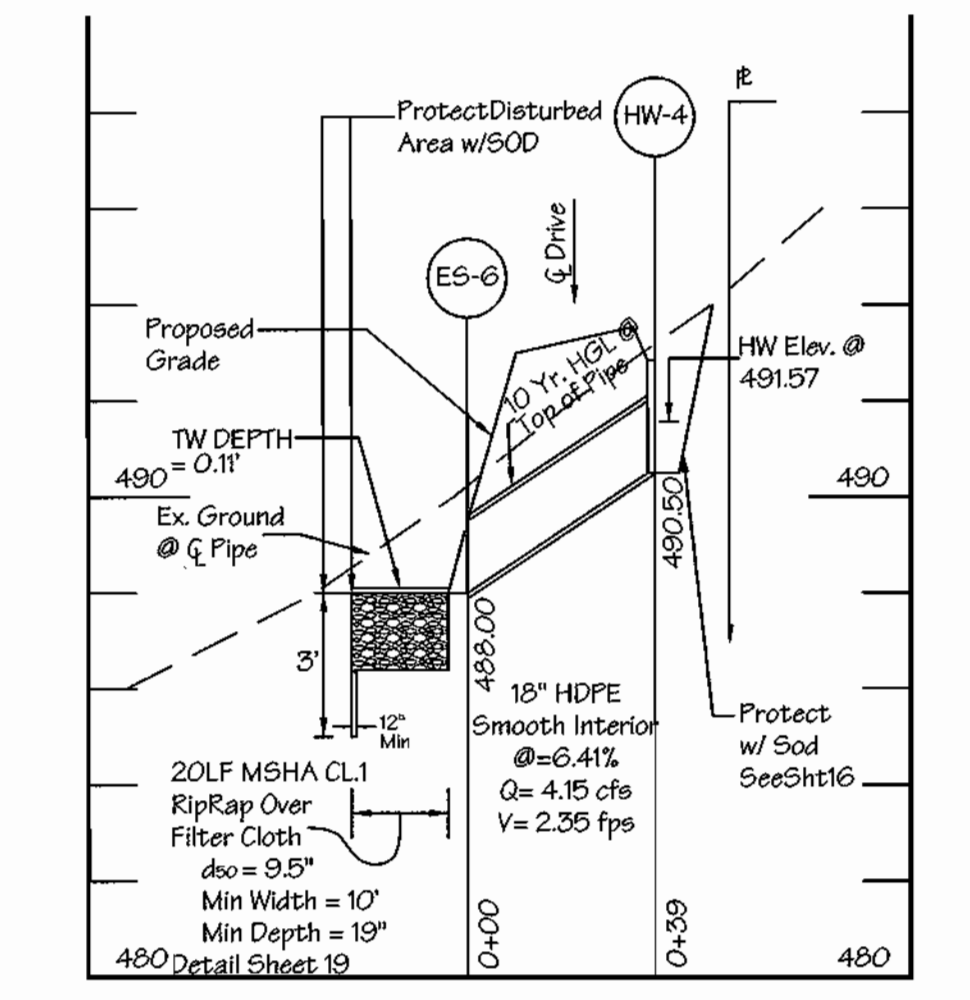
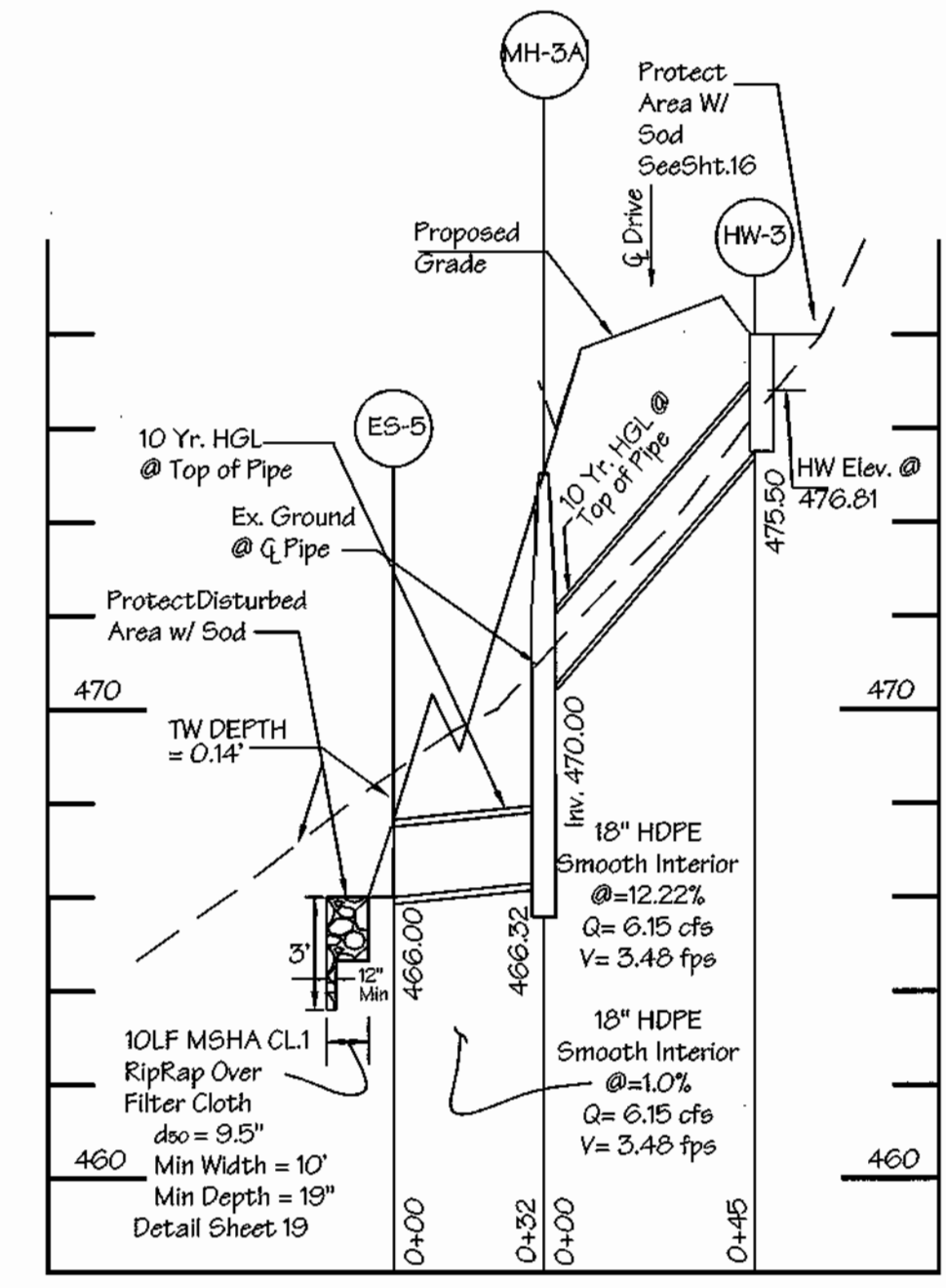
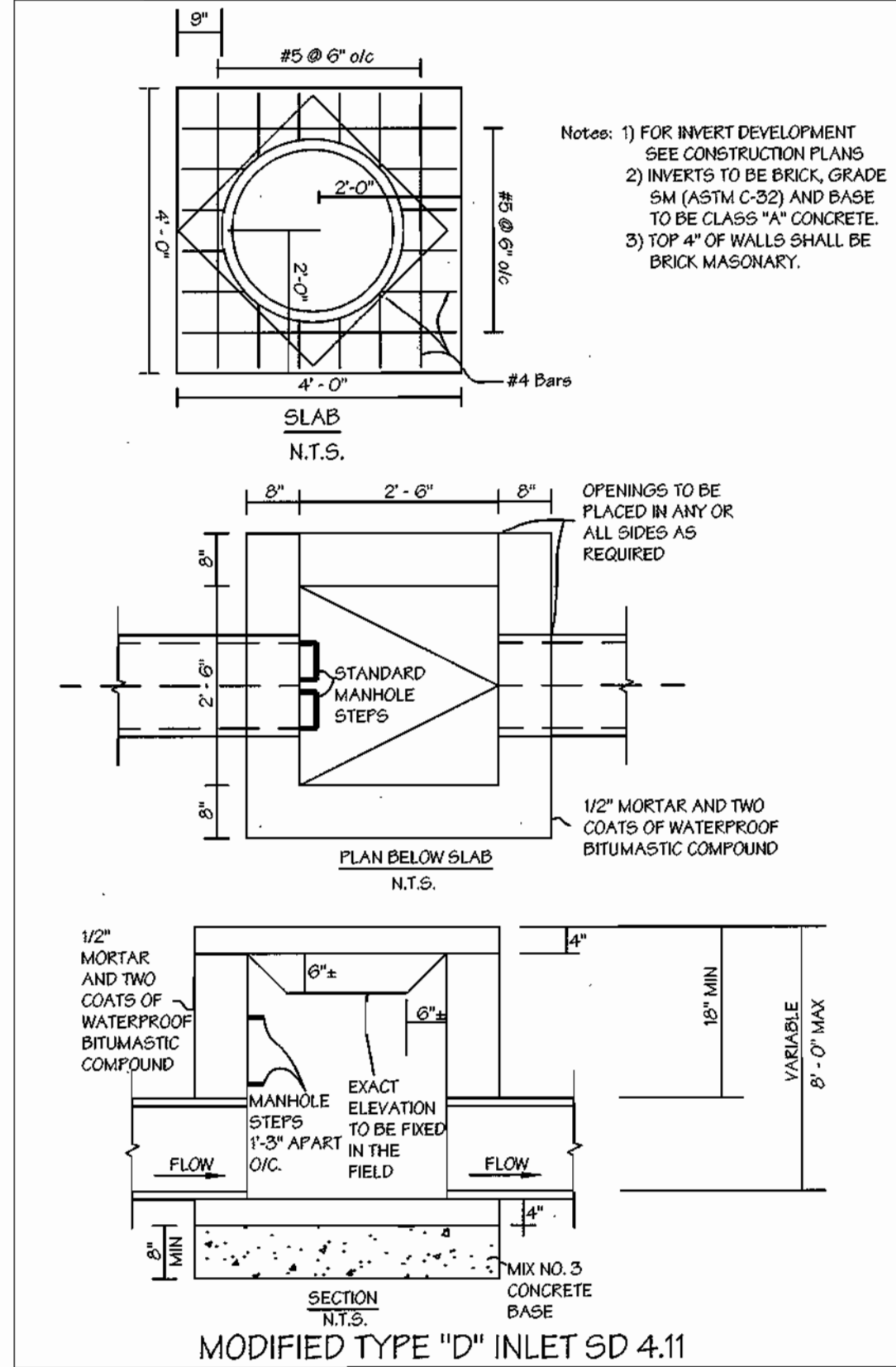
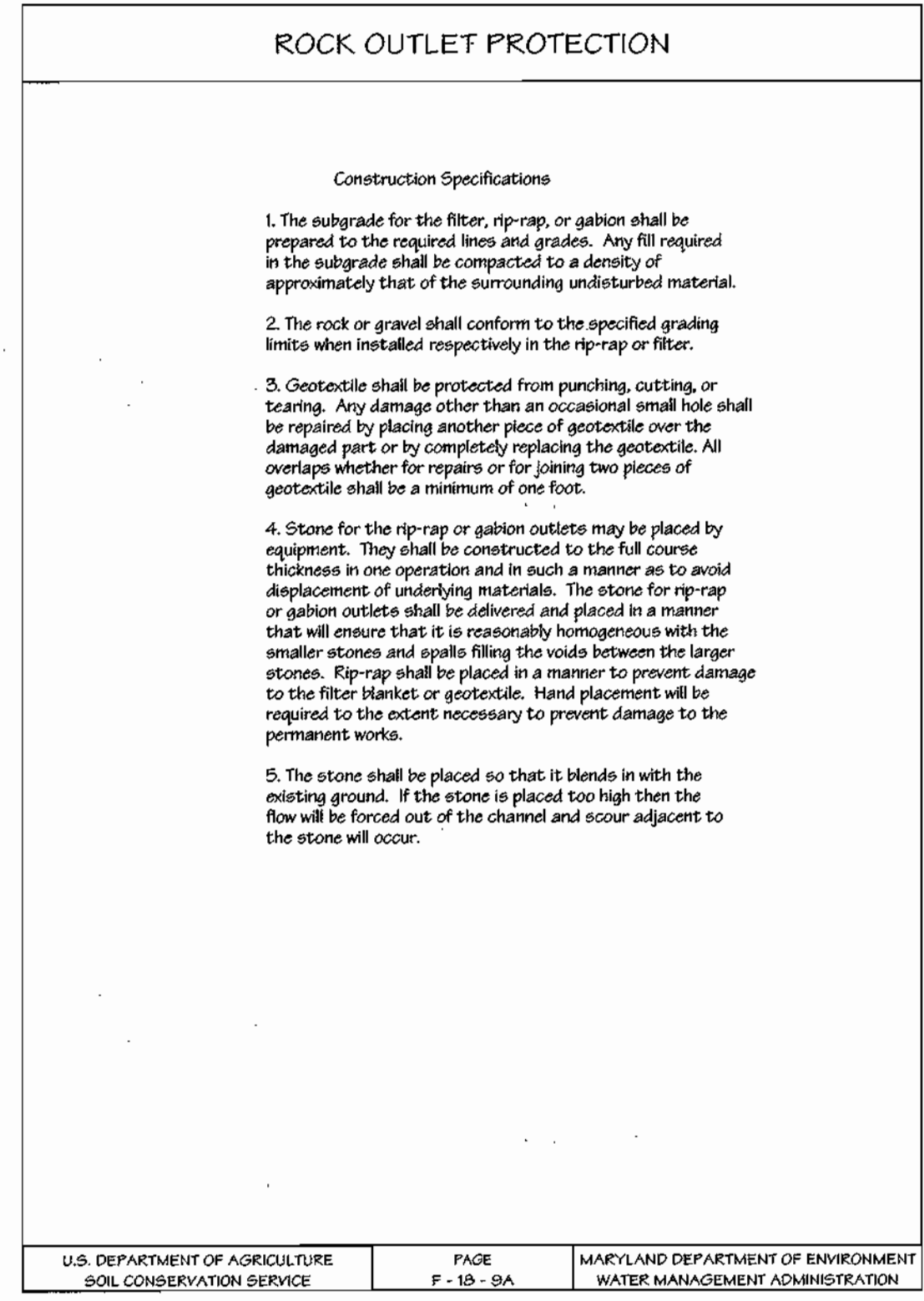
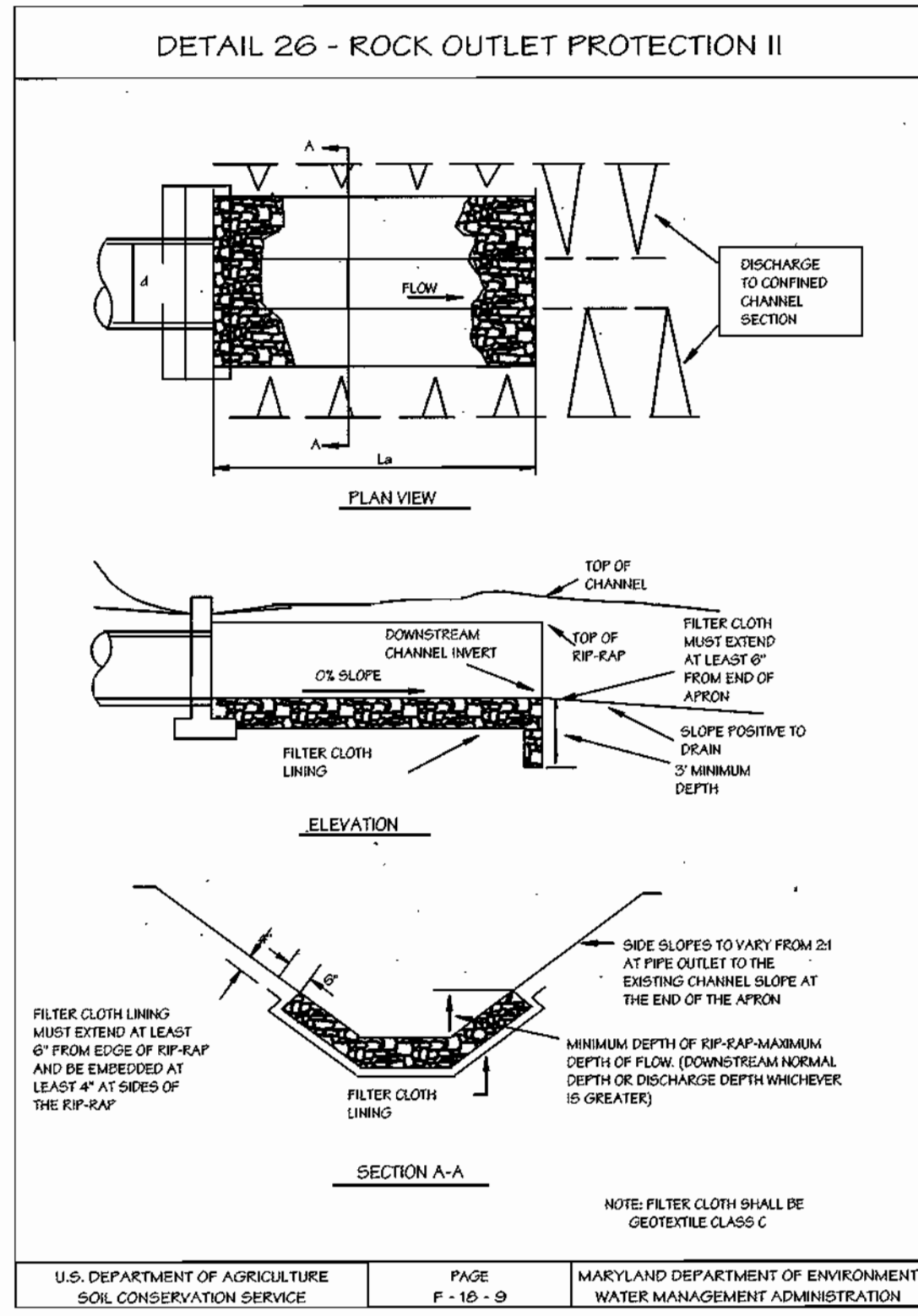
DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
3rd Election District - Howard County, Maryland
Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-98
OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lomie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 8 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

REVISIONS

No.	Date	Description

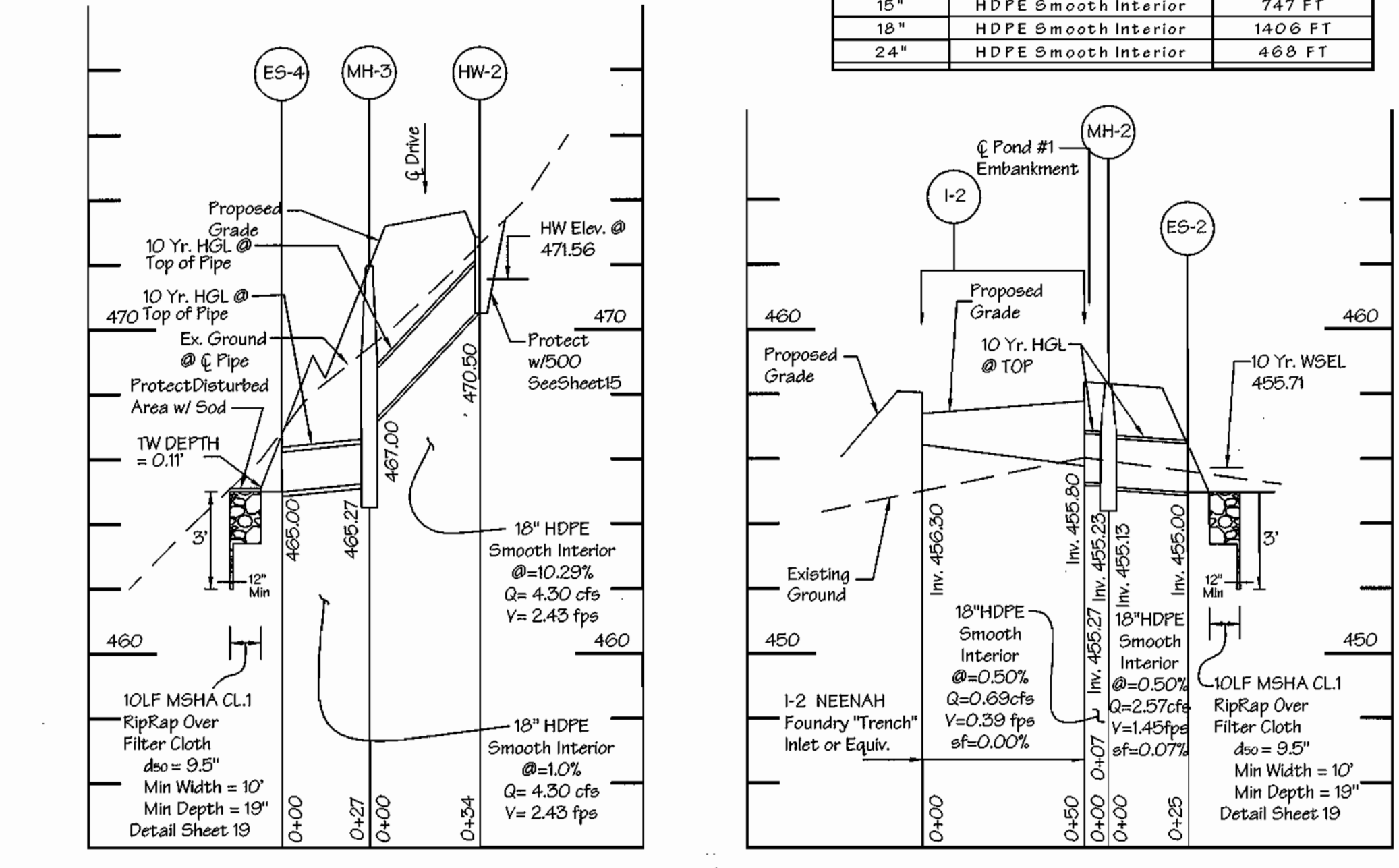
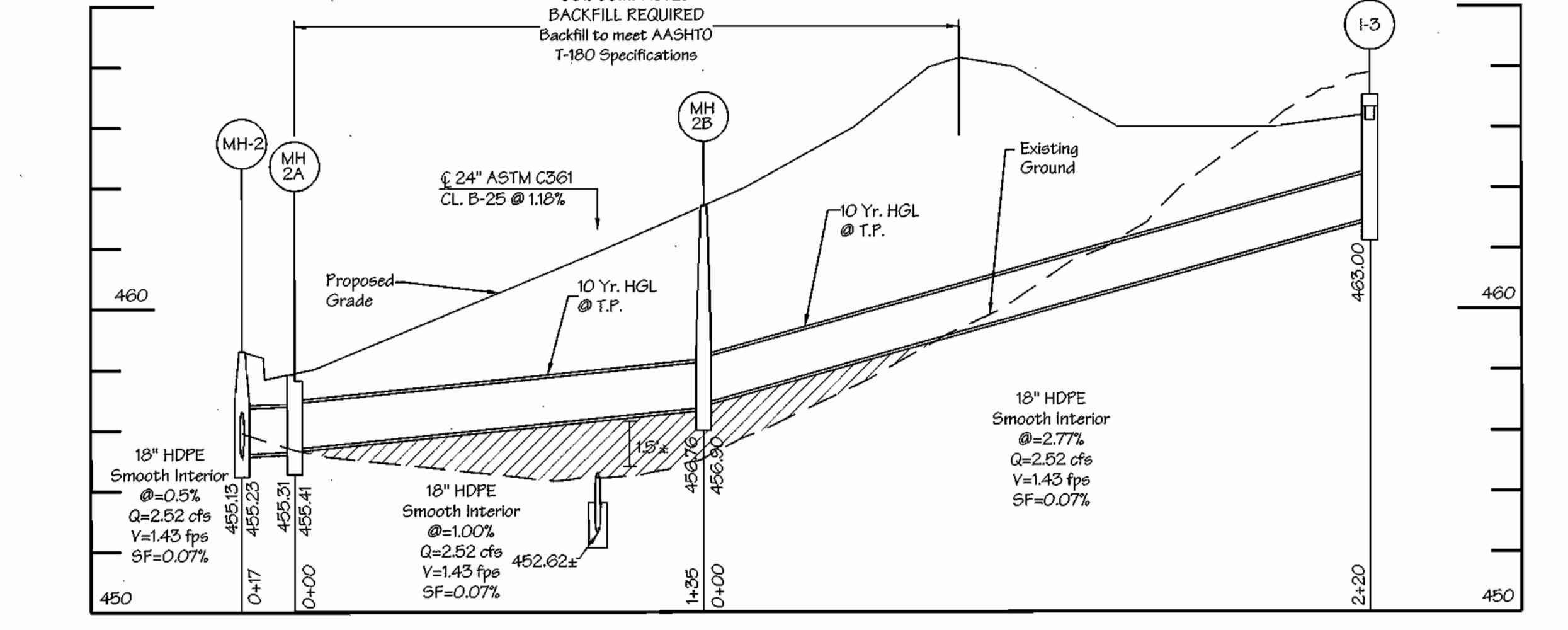
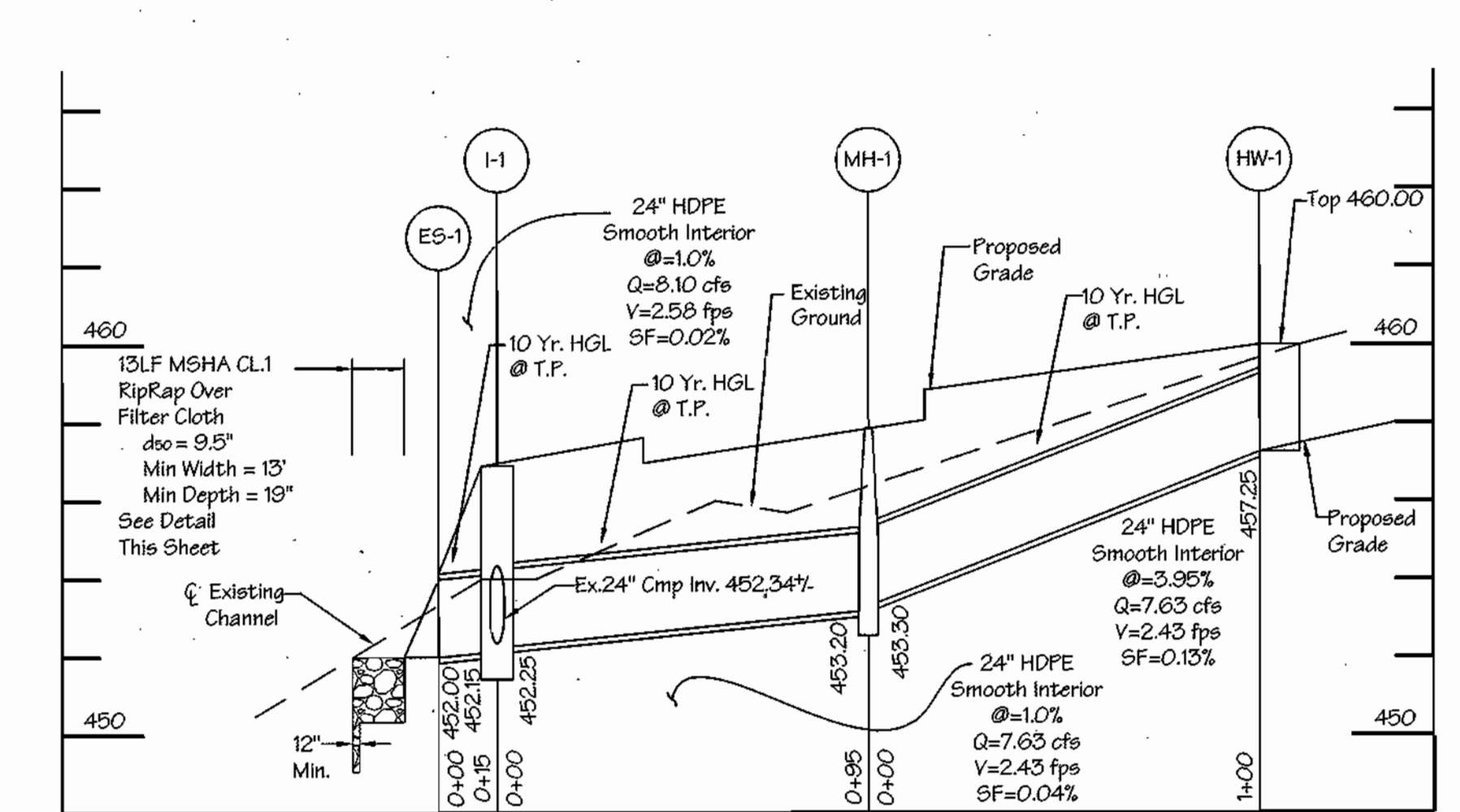
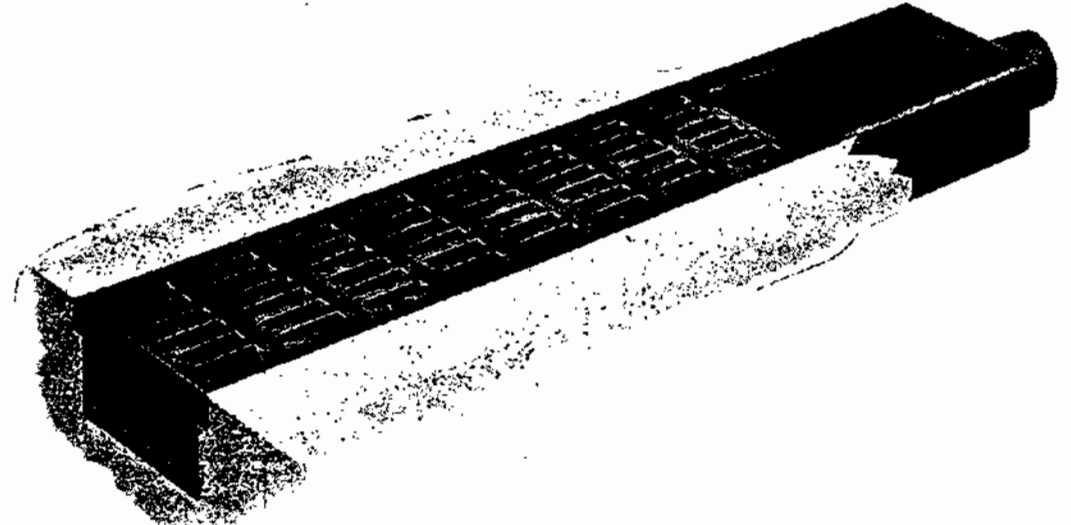
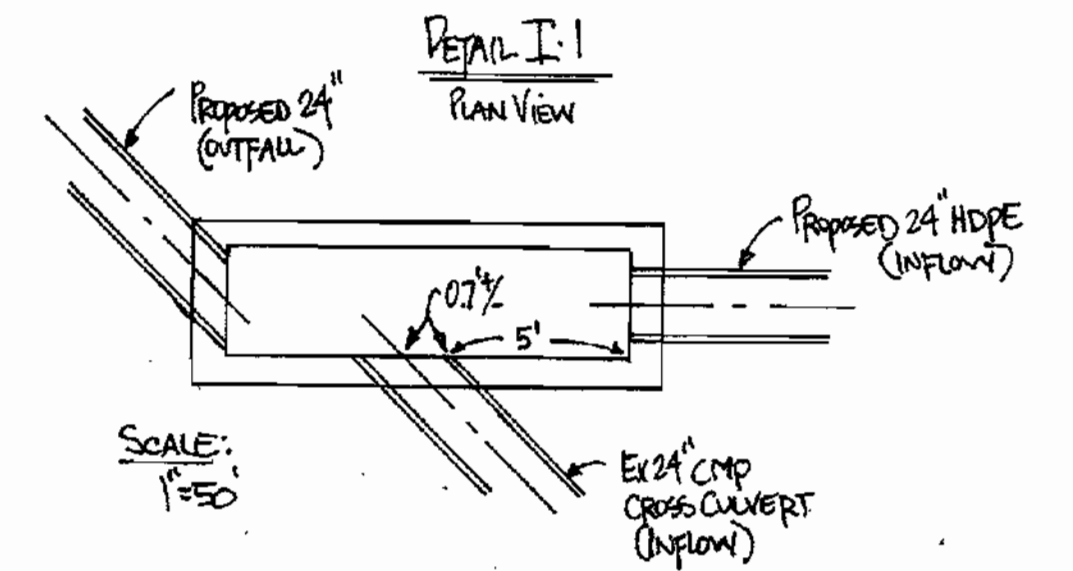


STRUCTURE SCHEDULE									
Str. No.	Structure Type	Inv. In	Inv. Out	Top Elevation or Upper / Lower	Detail	Location	Remarks		
I-1	A-10	462.25 / 462.25+	452.15	456.00 / 455.60	SD-4.02	6+04.96 / 22.01 LT.	Plan View Detail This Sheet.		
I-2	Trench	456.30	455.80	457.30 / 457.70	SEE PLAN		Name, Quantity or Equipment		
I-3	Type "D"	A-5	463.00	467.35	SD-4.11	4+24.10 / 31.24 LT.	THROAT UPSTREAM SIDE ONLY		
I-4	A-5	459.81 / 462.18	457.71	467.90	SD-4.01	N.591839.00 / E.1342096.92	SUMP		
I-5	A-5	464.31	464.81	472.00 / 471.90	SD-4.01	N.591910.73 / E.1342096.92	SUMP		
I-6	A-5	453.00	452.80 / 453.75	490.50 / 489.60	SD-4.01	N.591881.91 / E.1342096.92	SUMP		
I-7	Type "D"	488.50	488.25	496.30	SD-4.11	N.592028.64 / E.1342096.92	THROAT 4 SIDES		
I-8	Type "D"	-	489.30	494.50	Mod. SD-4.11	N.592056.30 / E.1342096.92	THROAT 4 SIDES		
I-9	A-5	-	464.75	475.80	SD-4.01	N.591856.66 / E.1342096.92	SUMP		
I-10	A-5	-	478.20	485.80	SD-4.01	N.591836.16 / E.1342096.92	SUMP		
I-11	A-5	-	466.30	494.30	SD-4.01	N.591926.20 / E.1342096.92	SUMP		
I-12	A-5	-	490.70	496.50 / 496.36	SD-4.01	N.591944.42 / E.1342096.92	SUMP		
I-13	A-5	462.58 / 464.50	462.08	489.30	SD-4.01	N.591844.84 / E.1342096.92	SUMP		
I-14	A-5	472.60 / 472.85	473.50	479.40 / 478.60	SD-4.01	N.591856.87 / E.1342096.92	SUMP		
I-15	A-5	485.01	484.75	490.90 / 490.60	SD-4.01	N.591778.38 / E.1342096.92	SUMP		
I-16	A-5	-	471.90	477.00	SD-4.01	N.591830.54 / E.1342096.92	SUMP		
I-17	A-5	-	470.60	475.80	SD-4.01	N.591870.08 / E.1342096.92	SUMP		
I-18	A-5	-	474.41	483.80	SD-4.01	N.591880.54 / E.1342096.92	SUMP		
I-19	A-5	-	474.88	484.00	SD-4.01	N.591730.02 / E.1342096.92	SUMP		
I-20	A-5	-	484.40	491.60	SD-4.01	N.591776.71 / E.1342096.92	SUMP		
MH-1	Manhole	453.30	453.20	457.60	G 5.12	7+01.69 / 28.82 LT			
MH-2	Manhole	458.28	458.19	468.35	G 5.12	0+46.19 / 30.74 RT			
MH-2A	Manhole	455.41	455.31	457.80	G 5.12	0+53.62 / 15.00 RT			
MH-2B	Manhole	456.90	456.78	463.50	G 5.12	1+81.88 / 8.06 RT			
MH-3	Manhole	467.00	466.27	473.00	G 5.12	4+84.17 / 14.28 LT			
MH-3A	Manhole	470.00	466.32	474.00	G 5.12	6+03.18 / 19.38 LT			
MH-4	Manhole	456.46	452.94	480.00	G 5.12	5+35.74 / 28.65 LT			
MH-5	Manhole	474.00 / 474.80	473.90	480.80	G 5.12	N.591938.40 / E.1342096.92			
MH-6	Manhole	466.53 / 466.67	466.27	495.20	G 5.12	N.592028.87 / E.1342096.92			
MH-7	Manhole	468.53 / 468.58	468.48	495.80	G 5.12	N.591858.91 / E.1342096.92			
MH-8	Manhole	463.57 / 463.59	463.27	473.15	G 5.12	N.591828.46 / E.1342096.92			
MH-9	Manhole	463.60 / 463.60	462.70	488.80	G 5.12	N.591759.74 / E.1342096.92			
ES-1	HDPE End Section	-	452.00	454.00	N/A	5+35.74 / 28.65 LT.	Typical HDPE Flare End Section		
ES-2	HDPE End Section	-	455.00	456.50	N/A	0+53.67 / 28.93 RT.	Typical HDPE Flare End Section		
ES-4	HDPE End Section	-	468.00	466.50	N/A	4+39.96 / 31.11 LT.	Typical HDPE Flare End Section		
ES-5	HDPE End Section	-	466.00	467.50	N/A	5+38 / 37.01 LT.	Typical HDPE Flare End Section		
ES-6	HDPE End Section	-	488.00	489.50	N/A	10+53.33 / 21.51 LT.	Typical HDPE Flare End Section		
ES-7	HDPE End Section	-	452.00	454.00	N/A	N.591723.90 / E.1342096.92	Typical HDPE Flare End Section		
ES-8	HDPE End Section	-	452.00	454.00	N/A	N.591832.25 / E.1342096.92	Typical HDPE Flare End Section		
ES-9	HDPE End Section	-	466.71	467.96	N/A	N.591879.07 / E.1342096.92	Typical HDPE Flare End Section		
HW-1	"E" Headwall	457.25	-	480.00	SD-5.31	8+02.05 / 24.61 LT.			
HW-2	"C" Headwall	470.50	-	472.75	SD-5.21	4+15.67 / 16.00 RT.			
HW-3	"E" Headwall	475.50	-	477.75	SD-5.31	5+75 / 16.00 RT.			
HW-4	"C" Headwall	468.00	-	492.75	SD-5.21	10+53.33 / 16.00 RT.			
S-1	Structure	453.00	453.00	458.00	Site 22	1+45.48 / 46.25 RT.			
EW-1	End Section	-	452.00	454.00	SD-5.51	1+55.75 / 26.75 LT.			
S-2	SWM RISER	423.70	423.60	431.33	Site 25	N.591872.10 / E.1342460.27			
EW-2	"A" Headwall	-	423.27	426.27	SD-5.11	N.591859.74 / E.1342529.30			

R-4990 Heavy Duty Trench Frames with Grated or Solid Covers

MATERIALS: All frames and grates are furnished standard in Gray Iron, Class 35, for heavy duty use.

NEENAH FOUNDRY COMPANY



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

[Signature] 7/8/03
LAND RESOURCE CONSERVATION SERVICE

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

[Signature] 7/8/03
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that the design, construction and sediment control represents a practical and workable plan for the project. I have knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not been engaged in any other project that requires my professional attention. I have not been engaged in any other project that requires my professional attention.

[Signature] 6/25/03
REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

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. We certify that we are beginning the project. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize a public utility inspection of the project.

[Signature] 6/25/03
DEVELOPER

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7-17-03
HOWARD COUNTY HEALTH OFFICER

REVISIONS

No.	Date	Description

LDE, INC.

9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. J.L.M.
DRAWN: J.L.M.
CHECKED: E.D.S. B.D.B.
DATE: 6/20/03

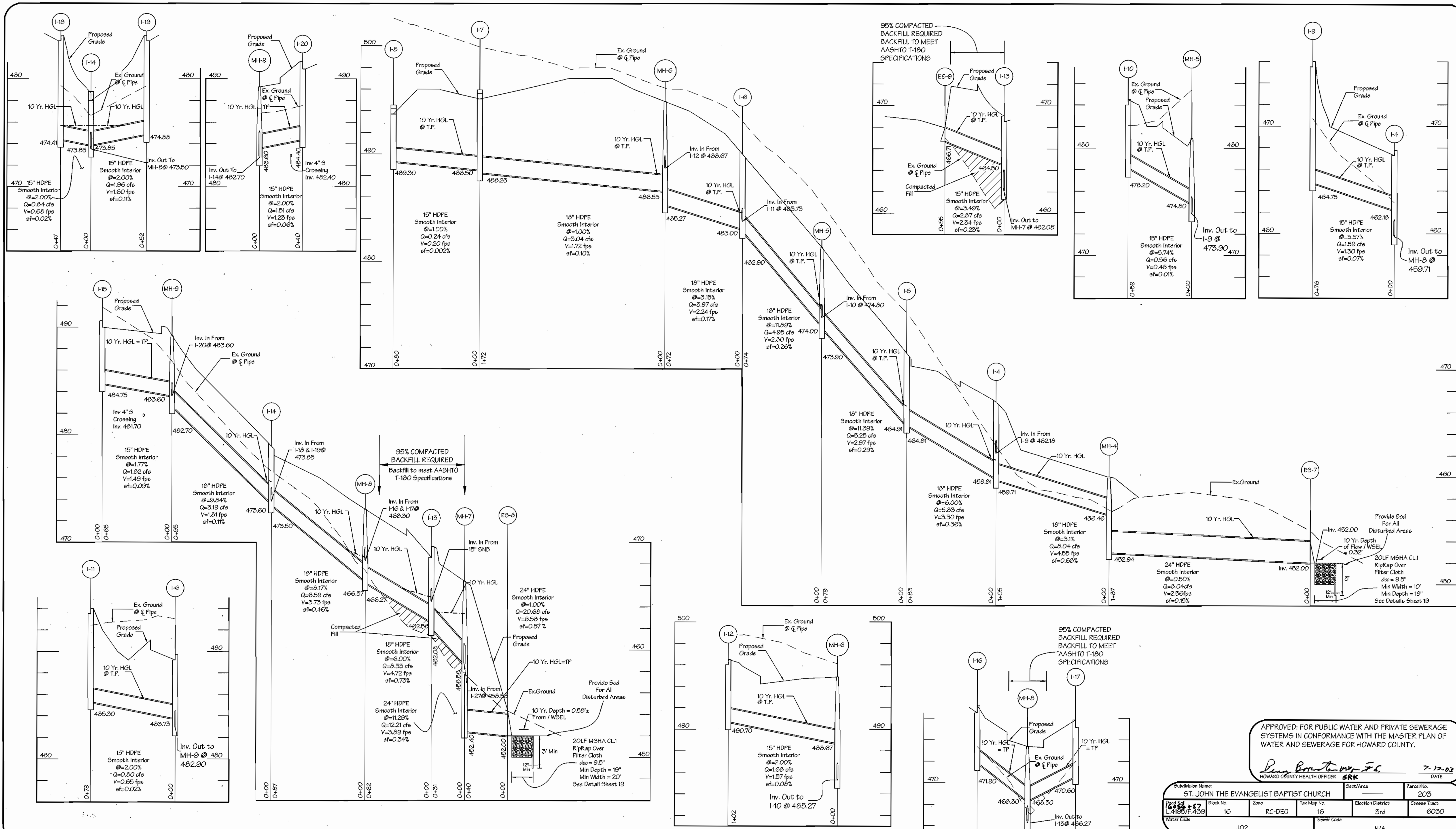
ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two

Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1"=40' H
1"=4' V
DRAWING: 11 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
[Signature] HOWARD COUNTY HEALTH OFFICER **SRK** 7-17-03 DATE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH					Sheet/Area:	Parcel/No.
						203
Proposed	Block No.	Zone	Tax Map No.	Election District	Conveyance Tract	
16555-57	16	RC-DEO	16	3rd	6030	
Water Code				Sewer Code		
J02				N/A		

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED J.L.M.	ST. JOHN THE EVANGELIST BAPTIST CHURCH Phase One & Two L. 4195/F. 439 c/o Mr. Lennie King, Jr.	SCALE As Shown
DRAWN J.L.M.		
CHECKED E.D.S. D.B.B.	Tax Map No. 16 - Grid No. 16 - Parcel 203 3rd Election District - Howard County, Maryland	JOB NO. 00-003
DATE 6/2003	Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F03-96	FILE NO. SDP 02-05
OWNER / DEVELOPER ST JOHN THE EVANGELIST BAPTIST CHURCH 8910 Old Annapolis Road / MD, Route 108 Columbia, Maryland 21045		

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/16/03 DATE
[Signature] 7/25/03 DATE
[Signature] 7/15/03 DATE

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

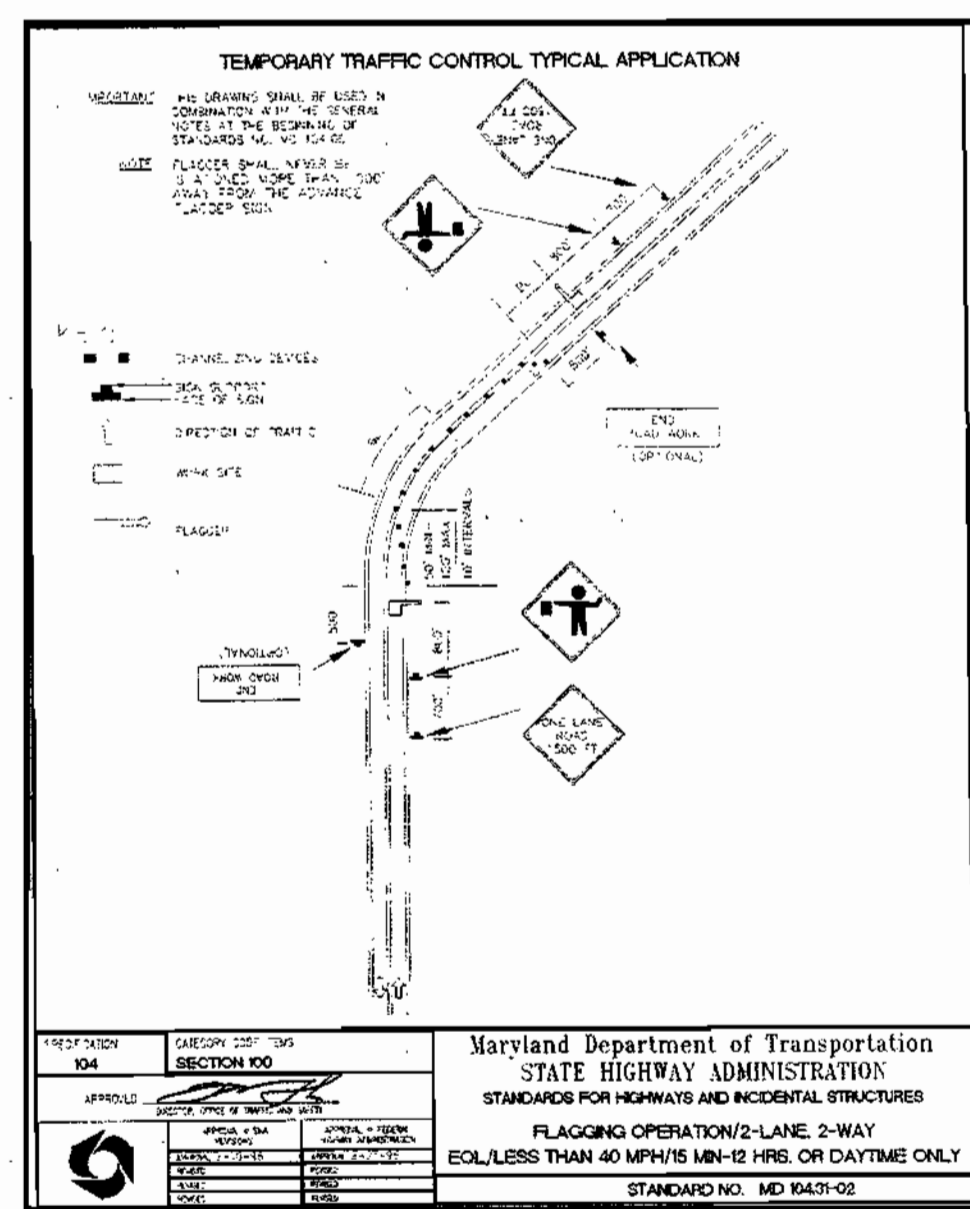
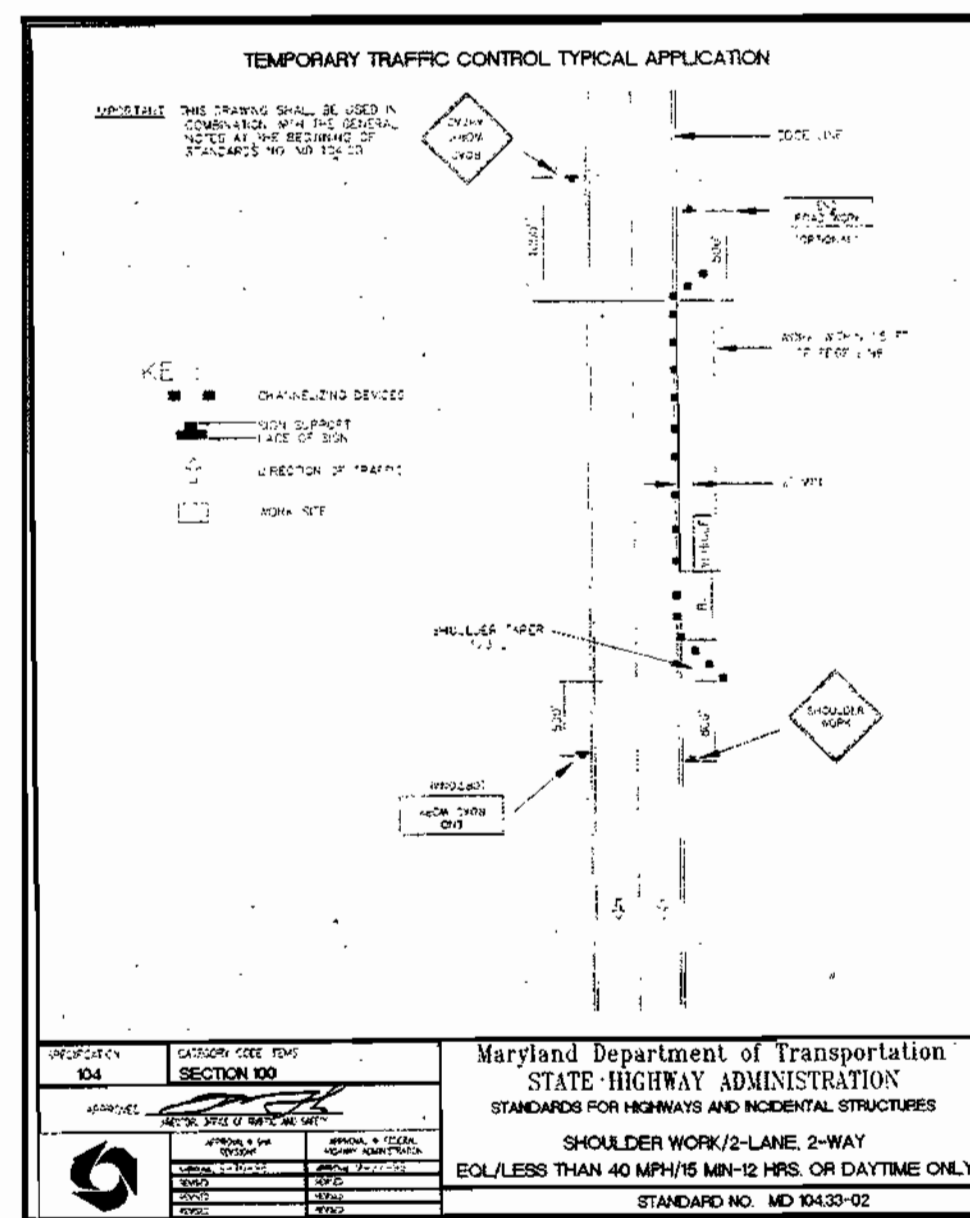
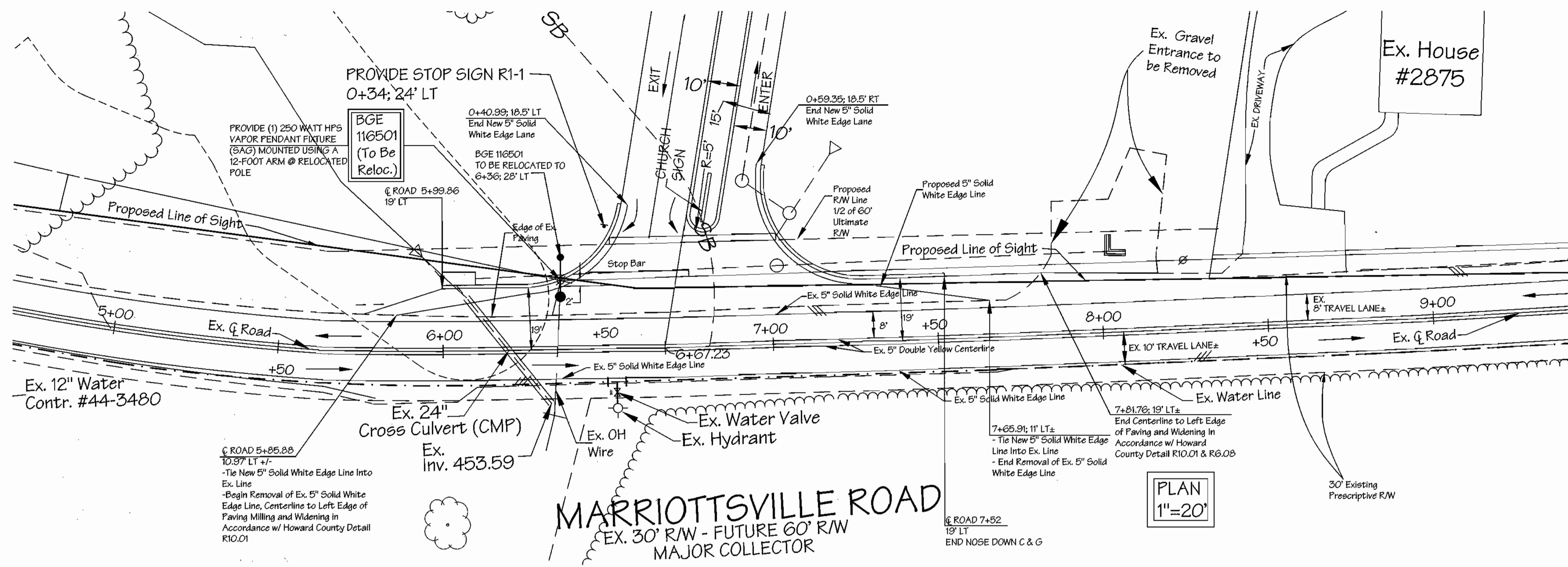
[Signature] 7/16/03 DATE
[Signature] 7/15/03 DATE
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
I certify that this plan represents a practical and workable design for storm and sediment control in accordance with the requirements of the Howard Soil Conservation District. I have not been personally involved in the construction project. I am a registered professional engineer in the State of Maryland and have provided my professional seal and signature on these plans with an "as-built" plan within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

[Signature] 6/25/03 DATE
DEVELOPER'S CERTIFICATE
I warrant that all development and/or construction will be done according to these plans, and that any responsible person 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 upon beginning the project. I shall engage a registered professional engineer to provide flood determination and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

[Signature] 6/25/03 DATE
PROFESSIONAL ENGINEER
STATE OF MARYLAND
DAVID B. BROWN, PE
6/25/03

REVISIONS	
No.	Date Description

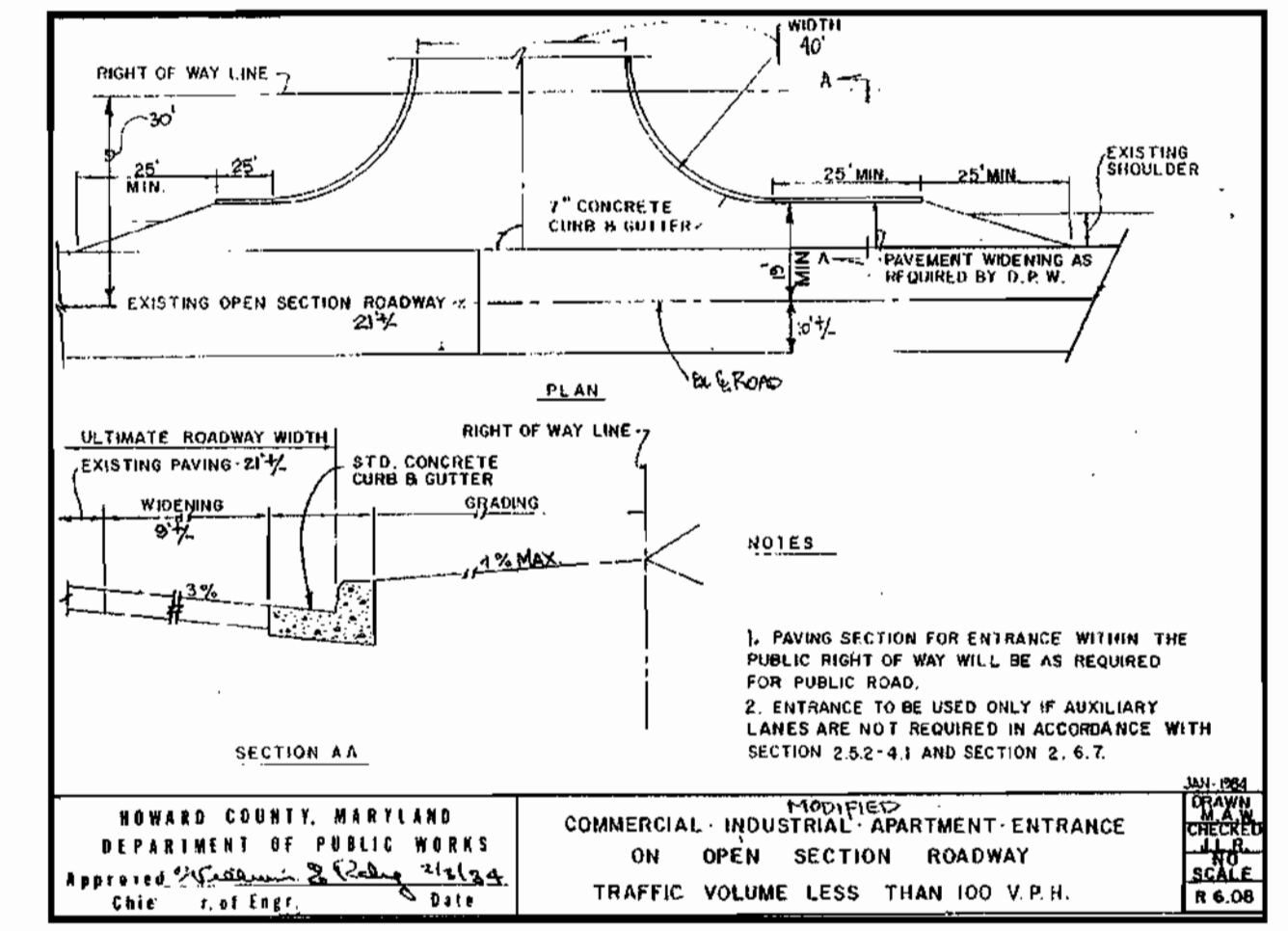
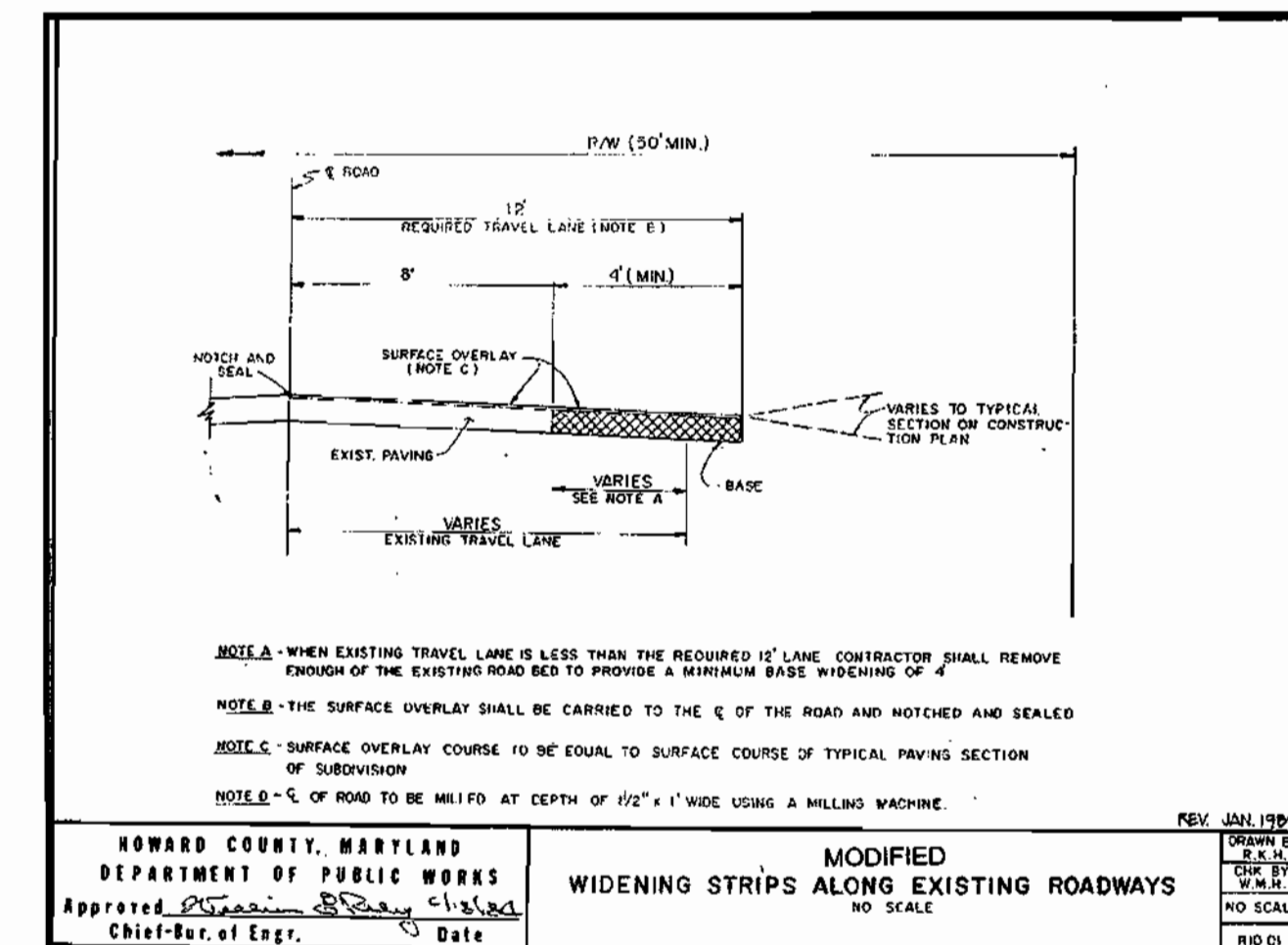


TEMPORARY TRAFFIC CONTROL DEVICE SELECTION CHART

STANDARD TRAFFIC CONTROL DEVICES

TRAFFIC CONTROL DEVICE	TRAFFIC CONTROL DEVICE SELECTION CHART
FLUORESCENT SIGN	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET AND FLASHING LIGHTS	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET AND FLASHING LIGHTS AND BATTERED BOARD SIGN	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET AND FLASHING LIGHTS AND BATTERED BOARD SIGN AND TRAFFIC LIGHTS	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET AND FLASHING LIGHTS AND BATTERED BOARD SIGN AND TRAFFIC LIGHTS AND BATTERED BOARD SIGN	FOR ALL ROADWAYS
FLUORESCENT SIGN WITH REFLECTIVE SHEET AND FLASHING LIGHTS AND BATTERED BOARD SIGN AND TRAFFIC LIGHTS AND BATTERED BOARD SIGN AND TRAFFIC LIGHTS	FOR ALL ROADWAYS

REVISIONS: 1. REVISED TO REFLECT 24' LT STOP SIGN R1-1



TRAFFIC CONTROL SIGN LEGEND

Symbol	Street Name	Station	Offset	Type
(Symbol)	Driveway	0+34	24' LT	R1-1, Stop Sign, 30" x 30" Octagon

STREET LIGHT LEGEND

STREET NAME	SYMBOL	CENTERLINE	OFFSET	LAMP TYPE	POST TYPE	POLE TYPE
Marriottsville Road	(Symbol)	STATION	6+36	250 Watt HPS VAPOR	Pendant Fixture (SAG)	(Mounted on the Relocated BGE Pole #116501 Using 12' Arm

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Howard County Health Officer: *SRK* 7-17-03 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *[Signature]* 7/11/03 DATE

Chief, Division of Land Development: *[Signature]* 7/23/03 DATE

Director: *[Signature]* 7/24/03 DATE

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

USDA-NATURAL RESOURCES CONSERVATION SERVICE: _____ DATE

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

HOWARD SOIL CONSERVATION DISTRICT: _____ DATE

ENGINEER'S CERTIFICATE

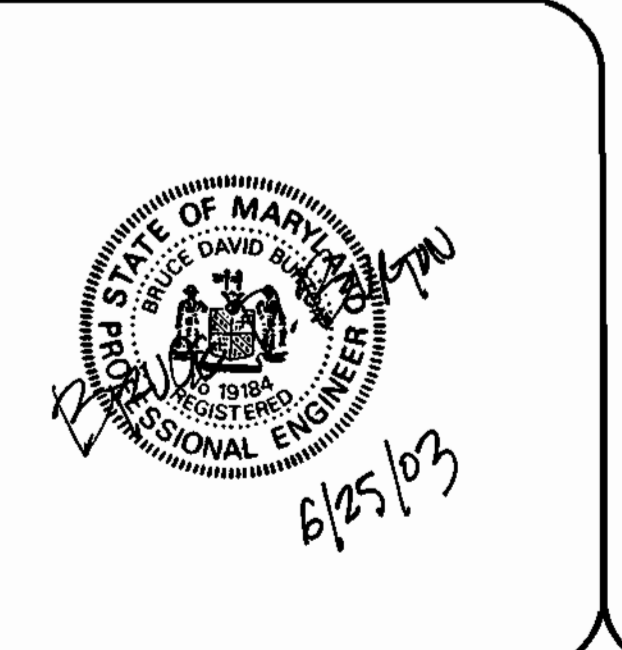
I certify that this plan for the proposed pond construction represents a practical and workable plan for the proposed pond construction. This plan was prepared in accordance with the standards of the Howard Soil Conservation District. I have notified the Howard Soil Conservation District of the proposed pond construction and have engaged a registered professional engineer to supervise the construction of the proposed pond construction.

Professional Engineer: *[Signature]* 6/25/03 DATE

DEVELOPER'S CERTIFICATE

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 shall engage a registered professional engineer to supervise the 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 site inspections by the Howard Soil Conservation District.

Signature of Developer: *[Signature]* 6/25/03 DATE



REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16, Zone RC-DEO, Tax Map No. 16, Election District 3rd, Census Tract 6030

LDE, INC.

9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

ST. JOHN THE EVANGELIST BAPTIST CHURCH

Phase One & Two

1:4195/F, 439

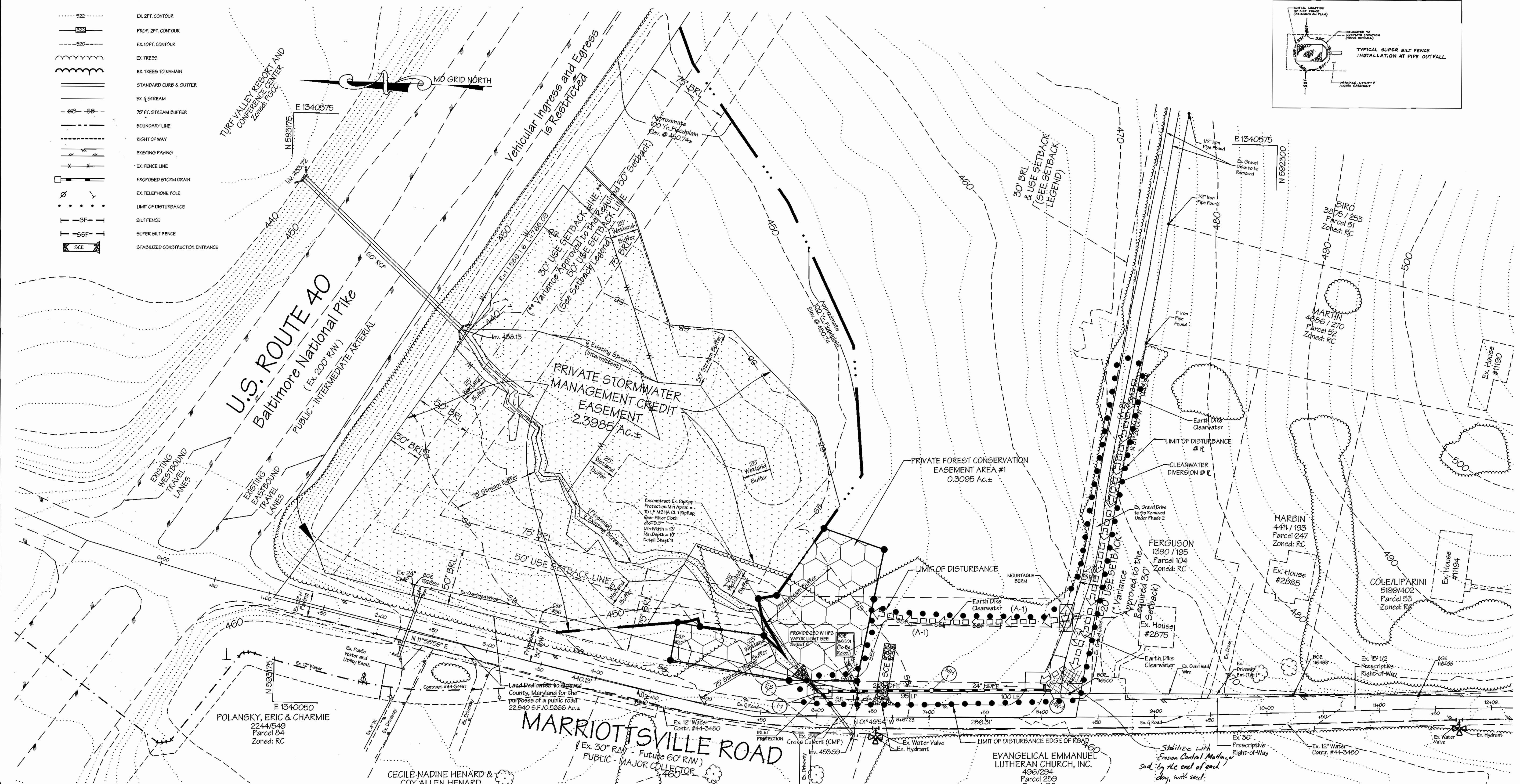
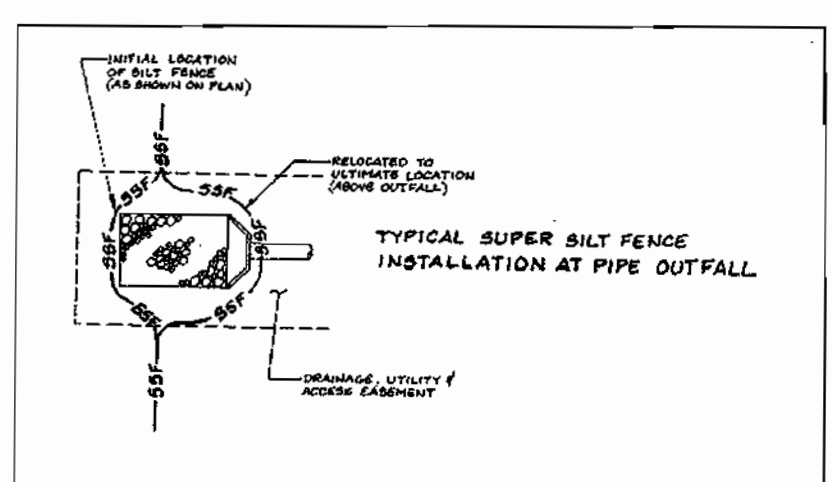
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Armadillo Road / M.D. Route 108
Columbia, Maryland 21045

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. HOPT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE
- 520 --- LIMIT OF DISTURBANCE
- 520 --- SILT FENCE
- 520 --- SUPER SILT FENCE
- 520 --- STABILIZED CONSTRUCTION ENTRANCE



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Howard County Health Officer 7-12-03 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 7/11/03 DATE

Chief, Division of Land Development 7/23/03 DATE

Director 7/24/03 DATE

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

Jim Meyer 7/8/03 DATE

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

Howard Soil Conservation District 7/8/03 DATE

ENGINEER'S CERTIFICATE

I certify that this plan for... represents a practical and workable plan... 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 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 project within 30 days of completion. I also authorize public on-site inspections by Howard Soil Conservation District.

George O. Edwards 6/25/03 DATE

DEVELOPER'S CERTIFICATE

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 Environment Approved Training Program for the Control of Sediment and Erosion... 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 project within 30 days of completion. I also authorize public on-site inspections by Howard Soil Conservation District.

Mark A. Lagler 6/25/03 DATE

PROFESSIONAL ENGINEER

George O. Edwards 6/25/03 DATE

Easement Legend

- Stormwater Management Credit Easement
- Forest Conservation Easement

NOTE:

1.) I-1 thru ES-1 and the extension of Ex 24" CMP into I-1 shall be completed during non storm events. Any baseflow from the Ex. 24" CMP shall be diverted around the work area. This construction must occur during a five (5) day clear (No precipitation) weather forecast from the National Weather Service.

2.) The Cleanwater Diversion Dike along the northern "Ferguson" property line should channel only "cleanwater" to HW-1. HW-1 should not receive any runoff from disturbed areas.

REVISIONS		
No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect/Area: ---	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Election District: 3rd	Census Tract: 6030	Water Code: J02
Sewer Code: ---		

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

Phase 1 - Grading & Soil Erosion & Sediment Control Plan

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two

L 4195/F-439
Tax Map No. 16 - Grd No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

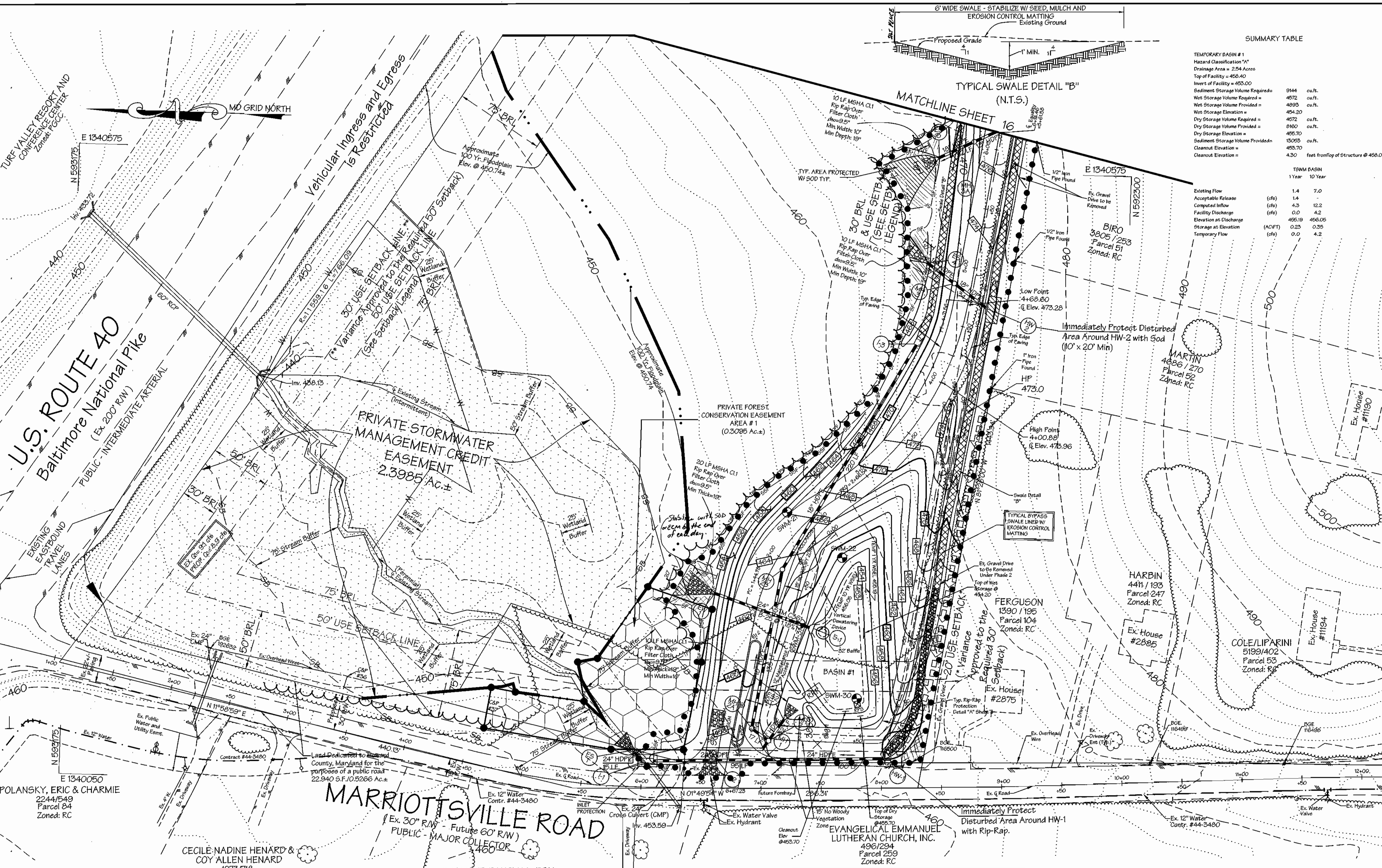
Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 14 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. Q. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE
- 520 --- LIMIT OF DISTURBANCE
- 520 --- SILT FENCE
- 520 --- SUPER SILT FENCE
- 520 --- EARTH DIKE
- 520 --- STABILIZED CONSTRUCTION ENTRANCE
- 520 --- SOIL BORING
- 520 --- REMOVABLE PUMPING STATION
- 520 --- PROTECTED AREA W/ 500'



SUMMARY TABLE

TEMPORARY BASIN #1
 Hazard Classification "A"
 Drainage Area = 254 Acres
 Top of Facility = 455.00
 Invert of Facility = 455.00
 Sediment Storage Volume Required = 9144 cu.ft.
 Wet Storage Volume Provided = 4972 cu.ft.
 Wet Storage Elevation = 454.20
 Dry Storage Volume Required = 4672 cu.ft.
 Dry Storage Volume Provided = 8860 cu.ft.
 Dry Storage Elevation = 455.70
 Sediment Storage Volume Provided = 15059 cu.ft.
 Cleanout Elevation = 455.70
 Cleanout Elevation = 4.30 feet from Top of Structure @ 455.0

TSMN BASIN
 1 Year 10 Year
 Existing Flow 1.4 7.0
 Acceptable Release (cfs) 1.4
 Computed Inflow (cfs) 4.3 12.2
 Facility Discharge (cfs) 0.0 0.0
 Elevation at Discharge 455.19 456.05
 Storage at Elevation (ACFT) 0.23 0.35
 Temporary Flow (cfs) 0.0 4.2

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	38° 11' 50"	121.76'	64.46'	S87° 42' 01" E - 118.45'
Driveway - 2+66.54 - 4+71.76	250.00'	22° 55' 06"	205.02'	108.67'	S57° 56' 22" E - 199.33'

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Devin Burt 7-12-03
 HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Dunning 7/11/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Harms 7/23/03
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Dawn K. Geyer 7/24/03
 DIRECTOR DATE

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

John A. ... 7/8/03
 USU/STATE RESOURCE CONSERVATION SERVICE DATE

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

John A. ... 7/8/03
 HOWARD SOIL CONSERVATION DISTRICT DATE

ENGINEER'S CERTIFICATE

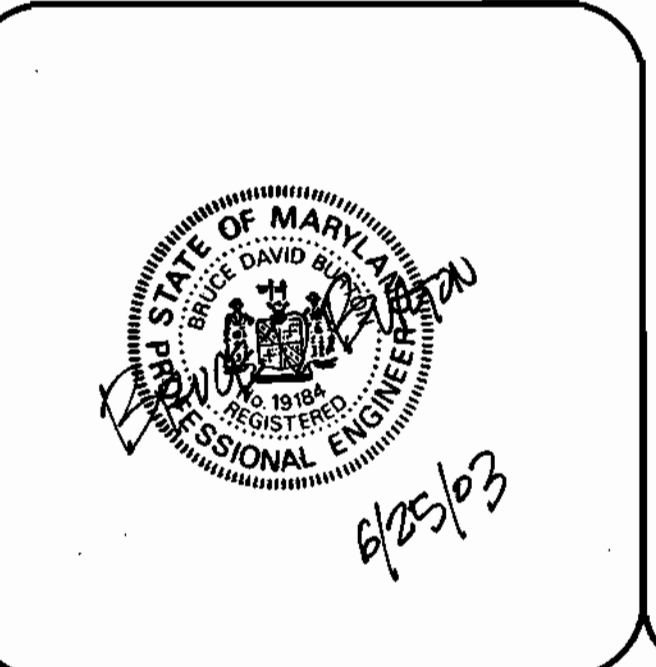
I certify that this plan for proposed stormwater management control represents a practical and workable plan for the proposed site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the Engineer of the project. I shall engage a registered professional engineer to supervise pond construction. I shall provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize a public site inspection by the Howard Soil Conservation District.

David D. ... 6/25/03
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

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

David D. ... 6/25/03
 SIGNATURE OF DEVELOPER DATE



- NOTE: 1) CURL ALL ENDS OF SILT FENCE UP HILL BY 2 FT. IN ELEVATION
- 2) THE CLEARWATER DIVERSION DIKE ALONG THE NORTHERN "FERGUSON" PROPERTY LINE SHOULD CHANNEL ANY CLEANWATER TO HW-1. HW-1 SHOULD NOT RECEIVE ANY RUNOFF FROM DISTURBED AREAS UNTIL FULLY STABILIZED.
- 3) SF ALONG ENTIRE NORTH SIDE OF BYPASS SWALE

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH Sect/Area: Parcel No. 203

Block No. 16 Zone RC-DEO Tax Map No. 16 Election District 3rd Census Tract 6030

Water Code JO2 Sewer Code N/A

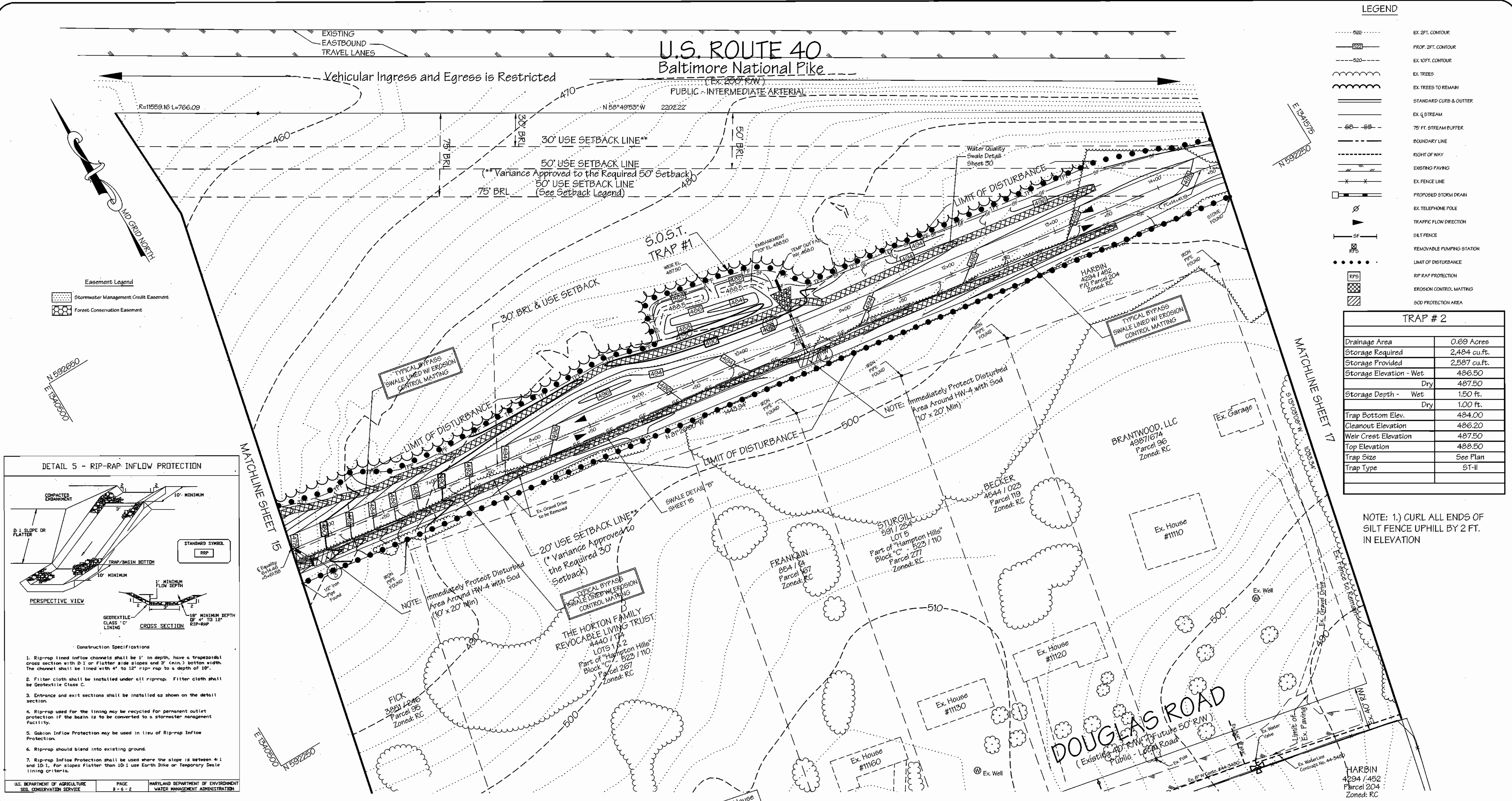
LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. SCALE: 1" = 40'

DRAWN: J.L.M. DRAWING: 15 of 33

CHECKED: B.D.B. JOB NO.: 00-003

DATE: 6/2003 OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045 FILE NO.: SDP 02-05



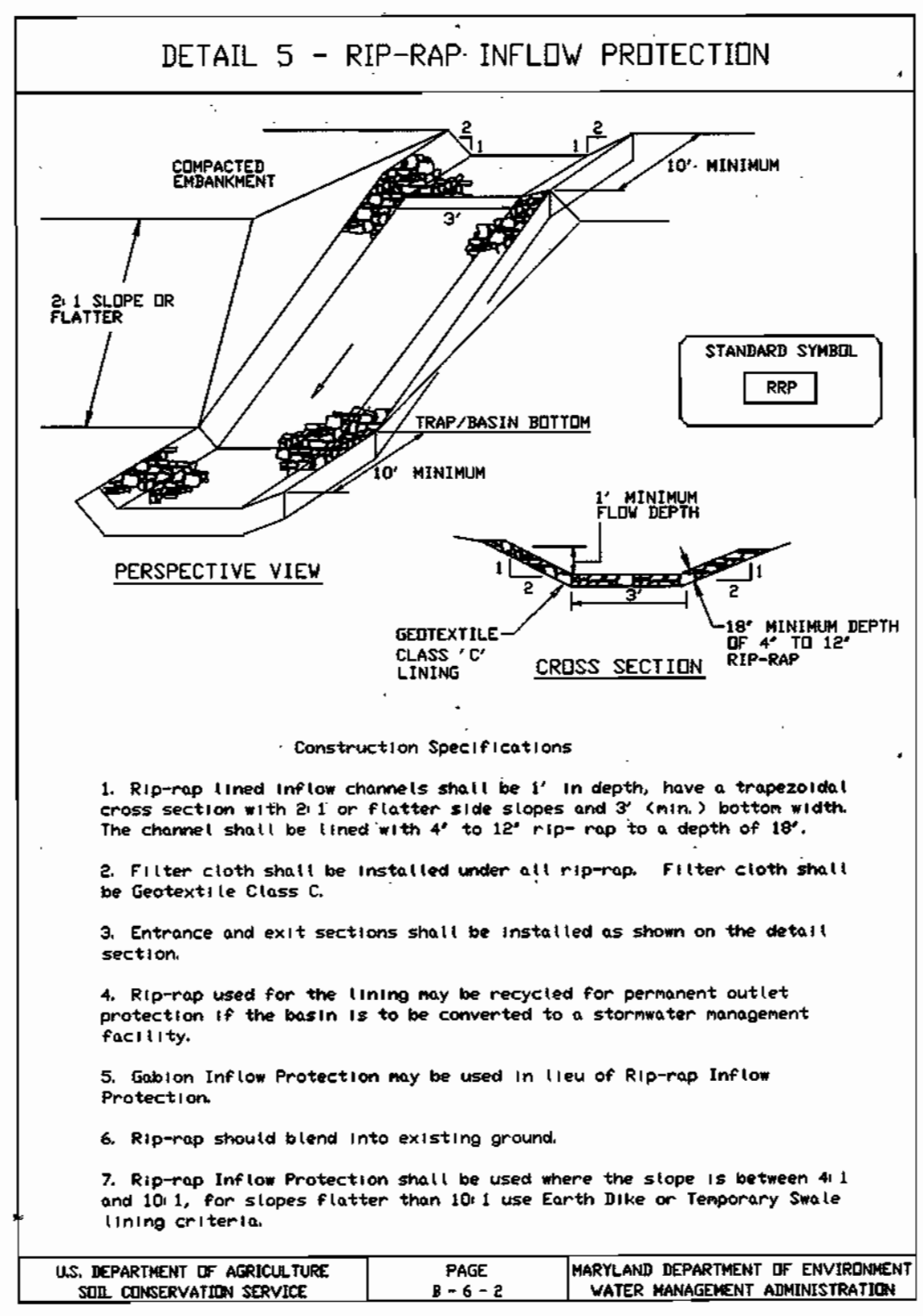
LEGEND

- 500 --- EX. 2 FT. CONTOUR
- 500 --- PROP. 2 FT. CONTOUR
- 500 --- EX. 10 FT. CONTOUR
- EX. TREES
- EX. TREES TO REMAIN
- STANDARD CURB & GUTTER
- EX. G. STREAM
- 75' FT. STREAM BUFFER
- BOUNDARY LINE
- RIGHT OF WAY
- EXISTING PAVING
- EX. FENCE LINE
- PROPOSED STORM DRAIN
- EX. TELEPHONE POLE
- TRAFFIC FLOW DIRECTION
- SILT FENCE
- REMOVABLE PUMPING STATION
- LIMIT OF DISTURBANCE
- RIP RAP PROTECTION
- EROSION CONTROL MATTING
- SOD PROTECTION AREA

TRAP #2

Drainage Area	0.69 Acres
Storage Required	2,484 cu.ft.
Storage Provided	2,587 cu.ft.
Storage Elevation - Wet	486.50
Dry	487.50
Storage Depth - Wet	1.50 ft.
Dry	1.00 ft.
Trap Bottom Elev.	484.00
Cleanout Elevation	486.20
Weir Crest Elevation	487.50
Top Elevation	488.50
Trap Size	See Plan
Trap Type	ST-II

NOTE: 1.) CURL ALL ENDS OF SILT FENCE UPHILL BY 2 FT. IN ELEVATION



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Debra Beatty 7-12-03
HOWARD COUNTY HEALTH OFFICER

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cindy Hunter 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

Mark A. Caplan 7/24/03
DIRECTOR

NOTE: ALL SWALES SHALL BE LINED W/ EROSION CONTROL MATTING PER DETAIL SHEET 20.

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

Jim Myers 7/6/03
DISTRICT NATURAL RESOURCE CONSERVATION SERVICE

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

Yuhua 7/8/03
HOWARD SOIL CONSERVATION DISTRICT

NOTE: 1.) CURL ALL ENDS OF SILT FENCE UPHILL BY 2 FT. IN ELEVATION

2.) THE CLEARWATER DIVERSION DIKE ALONG THE NORTHERN "FERGUSON" PROPERTY LINE SHOULD CHANNEL ANY CLEANWATER TO HW-1. HW-1 SHOULD NOT RECEIVE ANY RUNOFF FROM DISTURBED AREAS.

ENGINEER'S CERTIFICATE

I certify that this plan for erosion control and sediment control represents a practical and workable plan for 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 the project. I shall engage a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic onsite inspections of the project.

Paul D. Ferguson 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

We certify that all development and/or construction will be done according to these plans, and that any responsible person involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediments and Erosion during the project. I shall engage a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic onsite inspections of the project.

Paul D. Ferguson 6/25/03
SIGNATURE OF DEVELOPER

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 14+41.19 - 15+48.29	108.00'	56°49'06"	107.10'	58.42'	55°3'01.27"E - 102.77'

Centerline Coordinates

Station	Northing	Easting
Driveway Station 14+41.19	592279.63	1541477.92

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16, Zone RC-DEO, Tax Map No. 16, Election District 3rd, Census Tract 6030

Water Code J02, Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

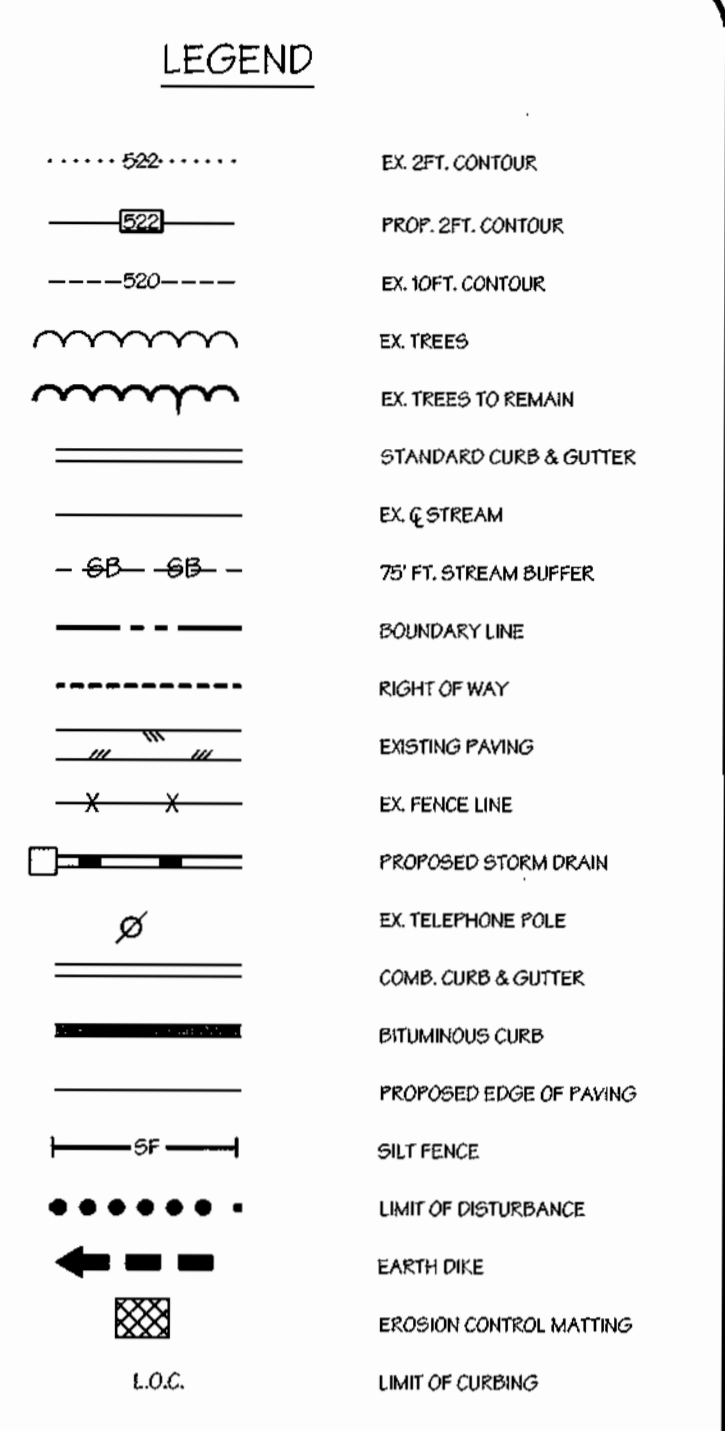
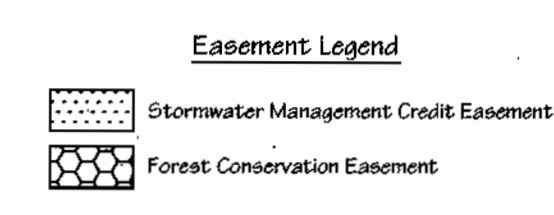
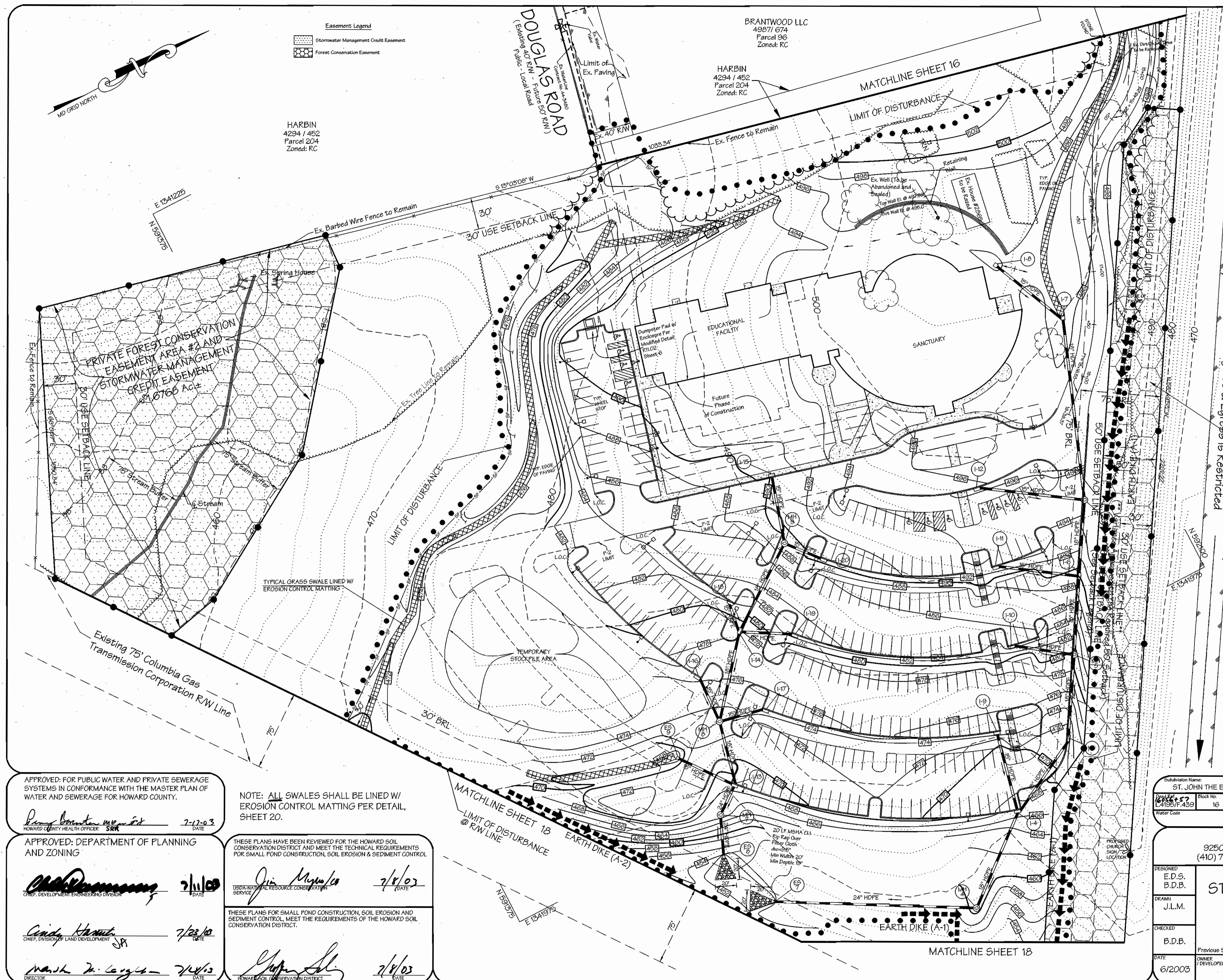
Phase 2 Grading and Soil Erosion & Sediment Control Plan

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

SCALE: 1" = 40'
DRAWINGS: 16 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 106
Columbia, Maryland 21045



U.S. ROUTE 40
 Baltimore National Pike
 EX. 200' R/W
 EXISTING EASTBOUND TRAVEL LINES
 P10 PRIVATE FOREST CONSERVATION EASEMENT AREA #5 AND STORMWATER MANAGEMENT CREDIT EASEMENT 1.663 A.C.
 Vehicular ingress & egress is restricted



ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion control represents a practical and workable plan to be followed by the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the district of 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.
 SIGNATURE OF ENGINEER: Bruce D. Smith
 DATE: 6/25/03

DEVELOPER'S CERTIFICATE
 I/we certify that all development and/or construction will be done according to these plans, and that any dependent 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.
 SIGNATURE OF DEVELOPER: [Signature]
 DATE: 6/25/03

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Section/Area:	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Water Code: J02	Election District: 3rd	Consent Tract: 6030

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

Phase 2 Grading and Soil Erosion & Sediment Control Plan

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
 210 Mr. Lennie King Jr.
 2910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 17 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
 [Signature] 7-17-03
 HOWARD COUNTY HEALTH OFFICER SRK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 7/16/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
 DIRECTOR

NOTE: ALL SWALES SHALL BE LINED W/ EROSION CONTROL MATTING PER DETAIL, SHEET 20.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
 [Signature] 7/8/03
 HOWARD SOIL CONSERVATION DISTRICT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 7/8/03
 HOWARD SOIL CONSERVATION DISTRICT

PLANNING PROJECTS 12030 LINDENWOOD DRIVE, SUITE 107, GAITHERSBURG, MD 20878

LEGEND

- 600 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- --- EX. TREES
- --- EX. TREES TO REMAIN
- --- STANDARD CURB & GUTTER
- --- EX. STREAM
- 68 --- 75' FT. STREAM BUFFER
- --- BOUNDARY LINE
- --- RIGHT OF WAY
- --- EXISTING PAVING
- --- EX. FENCE LINE
- --- PROPOSED STORM DRAIN
- --- EX. TELEPHONE POLE
- --- SOIL BORING
- --- EROSION CONTROL MATTING

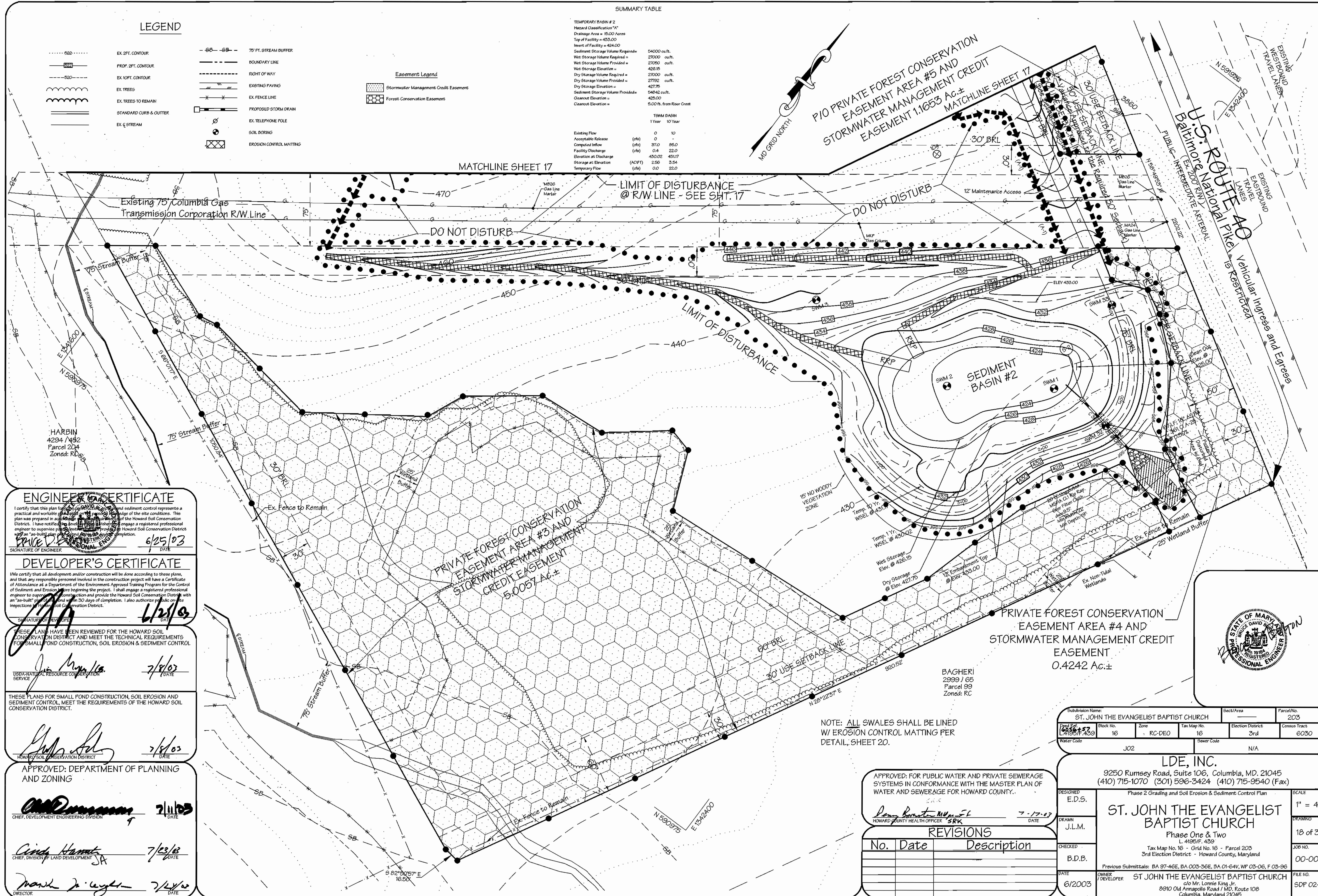
Easement Legend

- Stormwater Management Credit Easement
- Forest Conservation Easement

SUMMARY TABLE

TEMPORARY BASIN # 2	
Hazard Classification "A"	
Drainage Area = 15,000 Acres	
Top of Facility = 433.00	
Invert of Facility = 424.00	
Sediment Storage Volume Required =	54000 cu.ft.
Wet Storage Volume Required =	27000 cu.ft.
Wet Storage Volume Provided =	27050 cu.ft.
Dry Storage Volume Required =	27000 cu.ft.
Dry Storage Volume Provided =	27050 cu.ft.
Cleanout Elevation =	427.75
Sediment Storage Volume Provided =	54042 cu.ft.
Cleanout Elevation =	425.00
5.00 ft. from Riser Crest	

TSM BASIN	
1 Year 10 Year	
Existing Flow	0 10
Acceptable Release	0 -
Computed Inflow	(cfs) 37.0 85.0
Facility Discharge	(cfs) 0.4 22.0
Elevation at Discharge	(AFT) 430.02 431.17
Storage at Elevation	(cfs) 2.58 3.54
Temporary Flow	(cfs) 0.0 22.0



ENGINEER'S CERTIFICATE

I certify that this plan for stormwater management and sediment control represents a practical and workable design for the site conditions. This plan was prepared in accordance with the standards of the Howard Soil Conservation District. I have notified the Howard Soil Conservation District and engaged a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize public works inspections by the Howard Soil Conservation District.

6/25/03
 PRINCE D. BROWN, P.E.
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at 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 the construction and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize public works inspections by the Howard Soil Conservation District.

6/21/03
 J. M. ...
 SIGNATURE OF DEVELOPER DATE

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

7/8/03
 J. M. ...
 USDA-NATURAL RESOURCE CONSERVATION SERVICE DATE

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

7/8/03
 J. M. ...
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

7/11/03
 J. M. ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

7/23/03
 J. M. ...
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

7/24/03
 J. M. ...
 DIRECTOR DATE

P/O PRIVATE FOREST CONSERVATION EASEMENT AREA #5 AND STORMWATER MANAGEMENT CREDIT EASEMENT 1.1653 Ac.±

MATCHLINE SHEET 17

LIMIT OF DISTURBANCE @ R.W. LINE - SEE SHT. 17

DO NOT DISTURB

LIMIT OF DISTURBANCE

SEDIMENT BASIN #2

PRIVATE FOREST CONSERVATION EASEMENT AREA #3 AND STORMWATER MANAGEMENT CREDIT EASEMENT 5.0057 Ac.±

PRIVATE FOREST CONSERVATION EASEMENT AREA #4 AND STORMWATER MANAGEMENT CREDIT EASEMENT 0.4242 Ac.±

NOTE: ALL SWALES SHALL BE LINED W/ EROSION CONTROL MATTING PER DETAIL, SHEET 20.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

7-17-03
 PERRY ROBERTSON, M.D., P.E.
 HOWARD COUNTY HEALTH OFFICER DATE

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH		Block/Area: 16	Parcel No.: 203
Plot No.: 439	Zone: RC-DEO	Tax Map No.: 16	Election District: 3rd
Water Code: J02	Sewer Code: N/A	Compass Tract: 6030	

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD, 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

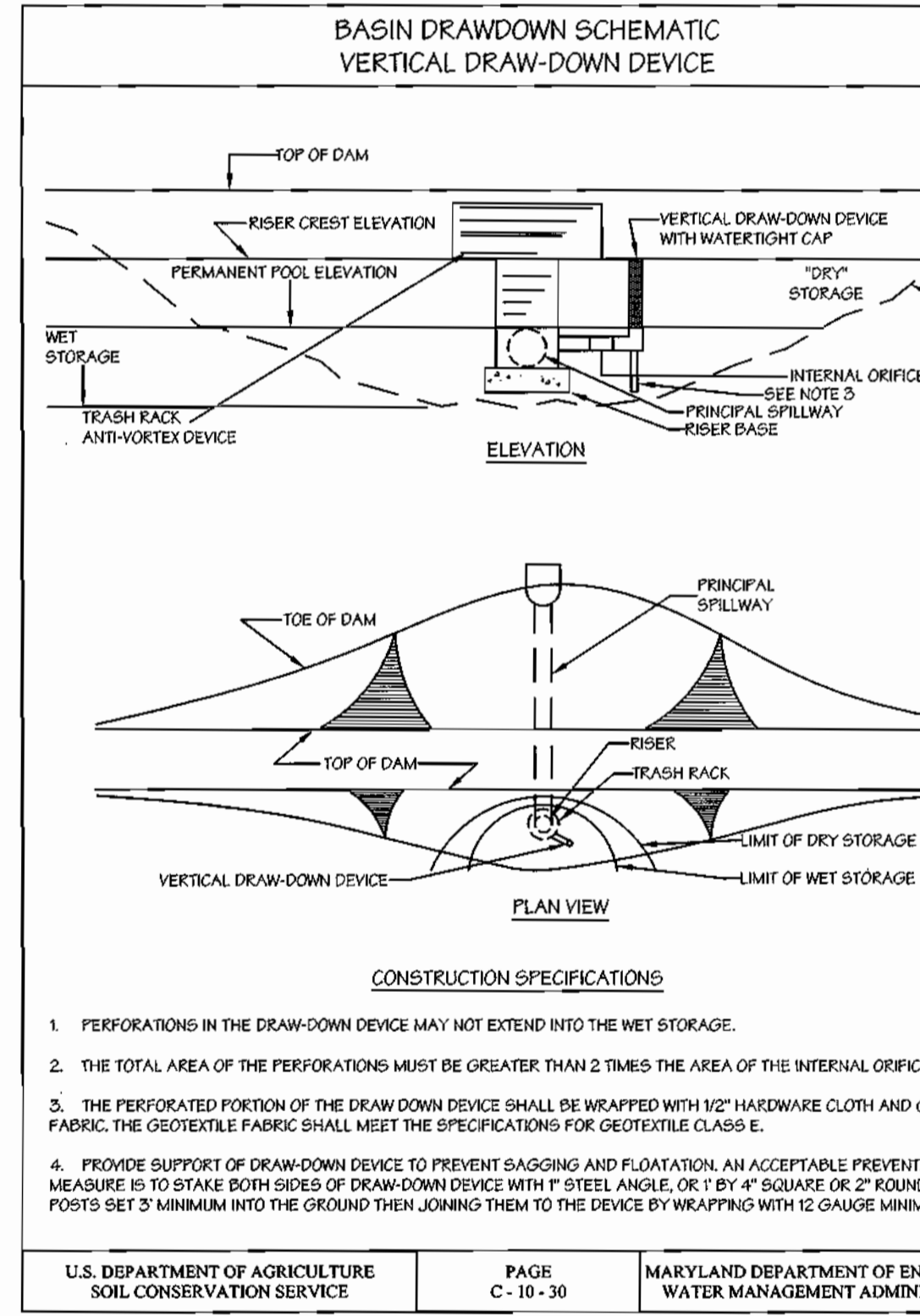
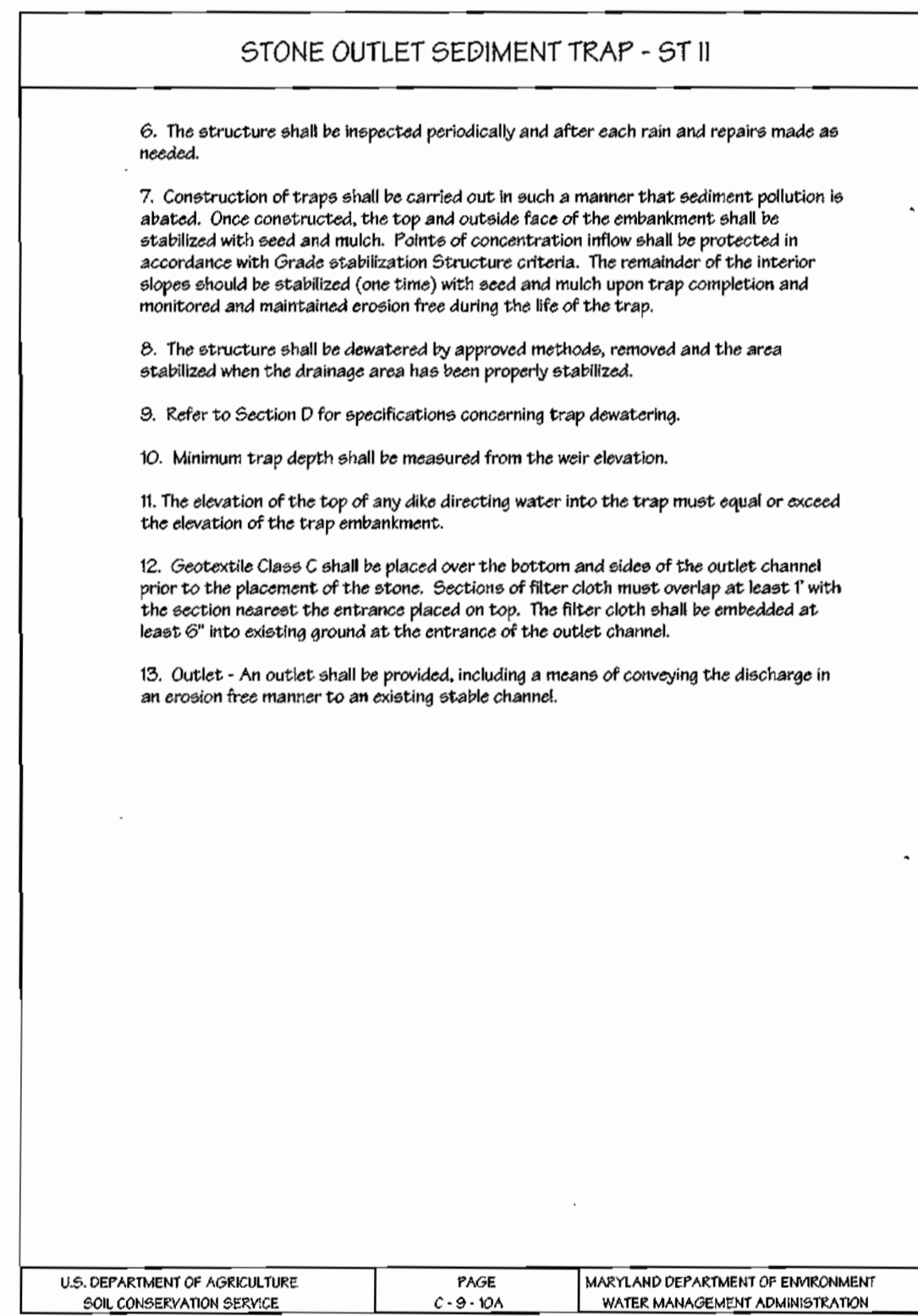
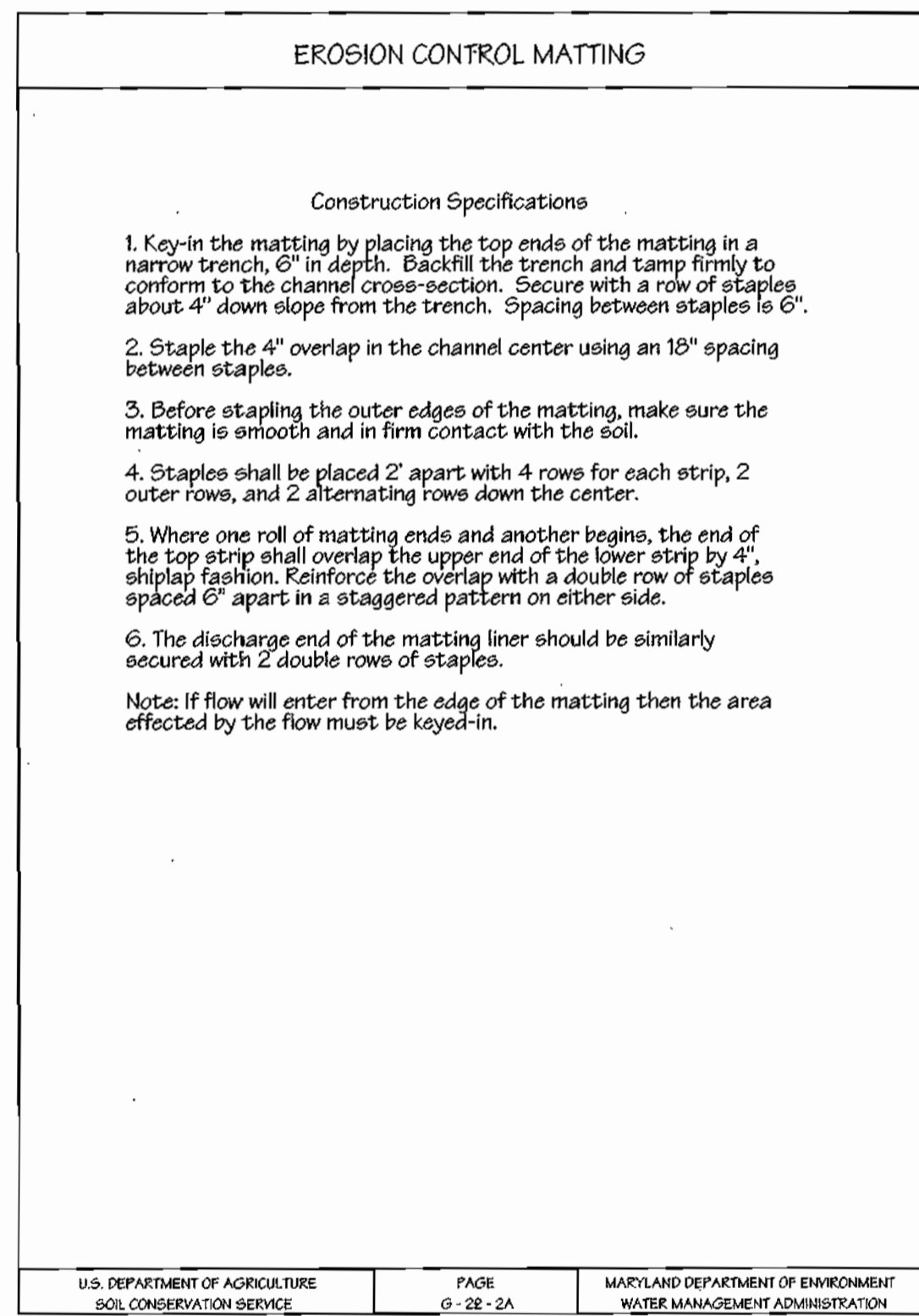
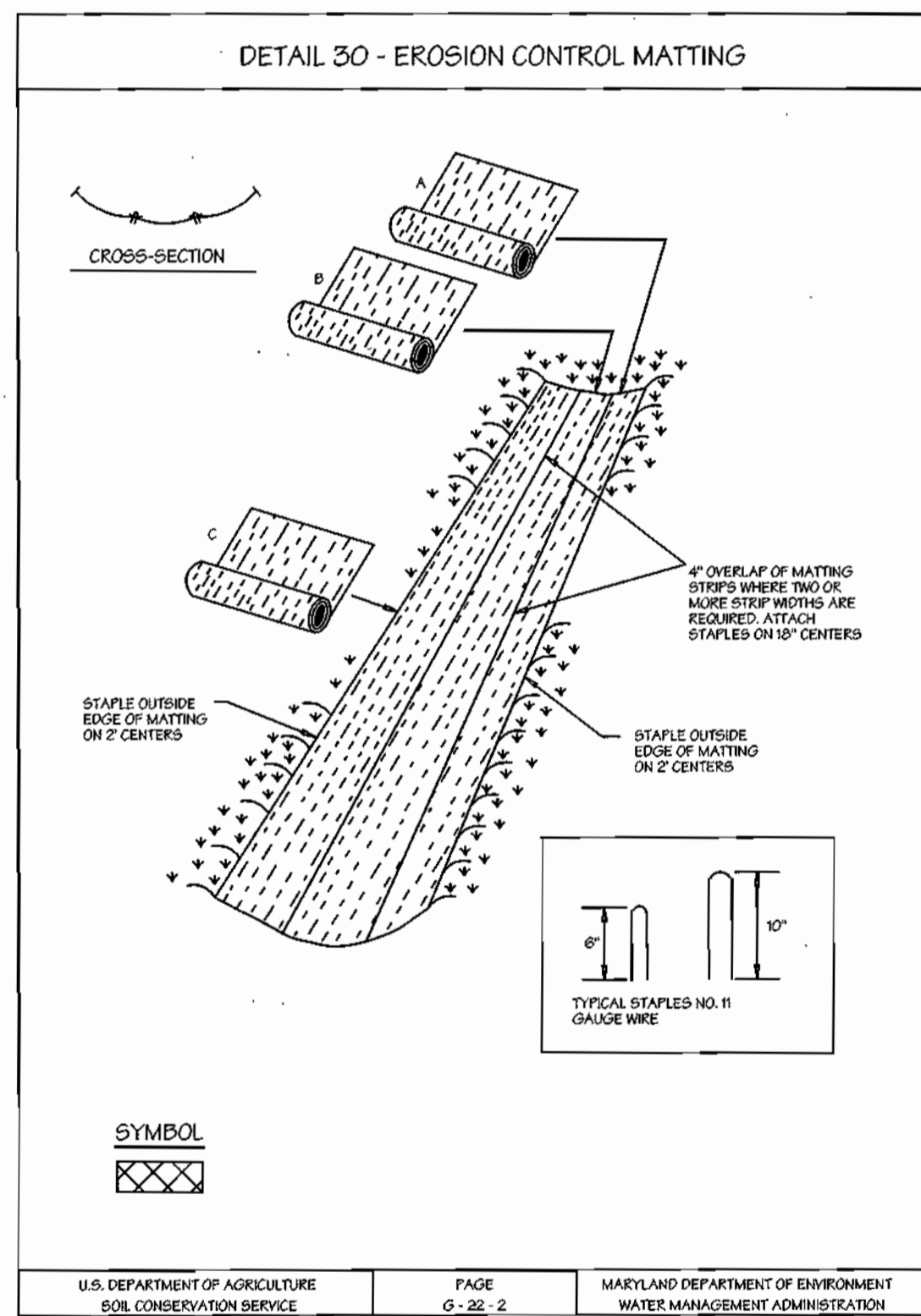
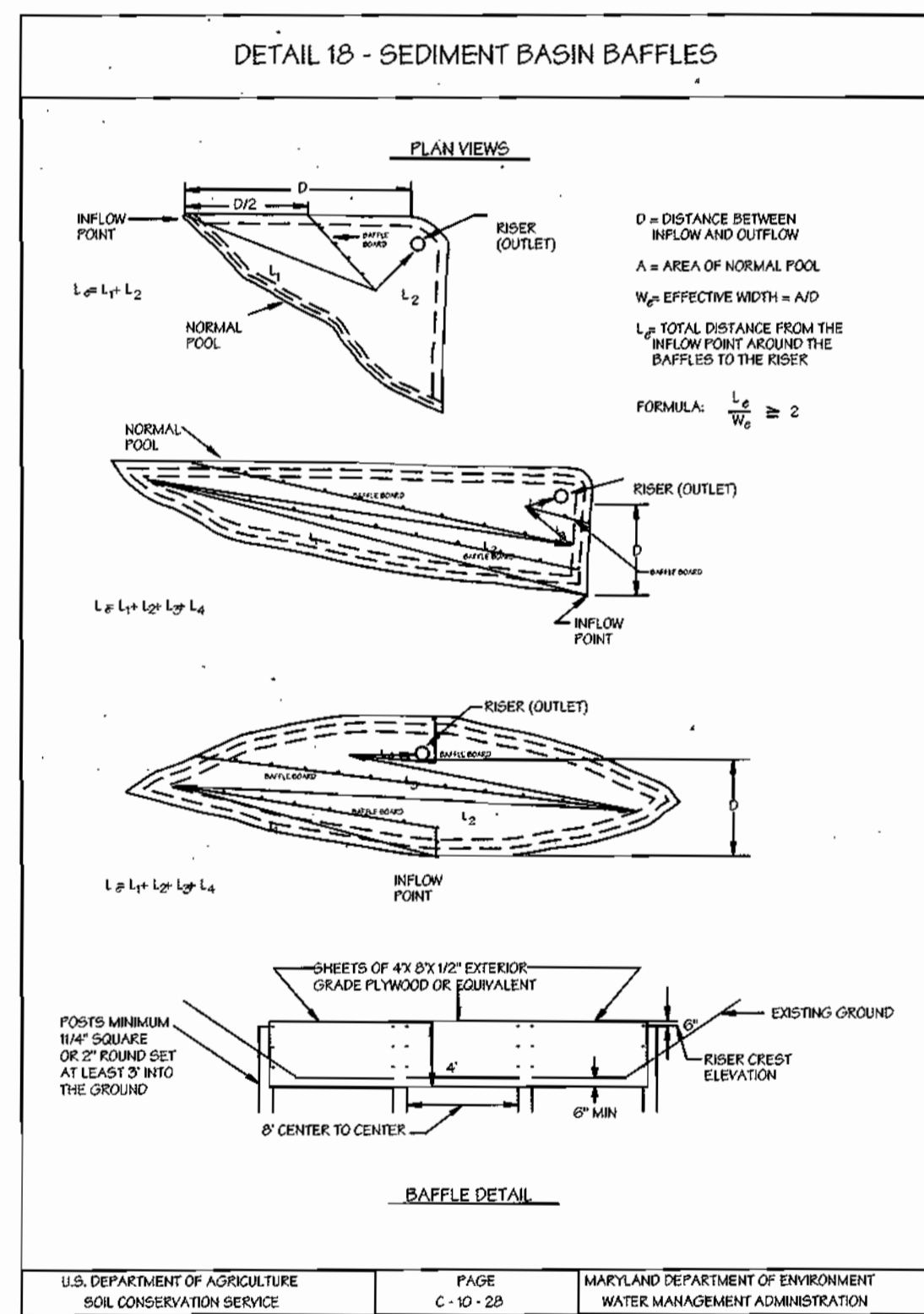
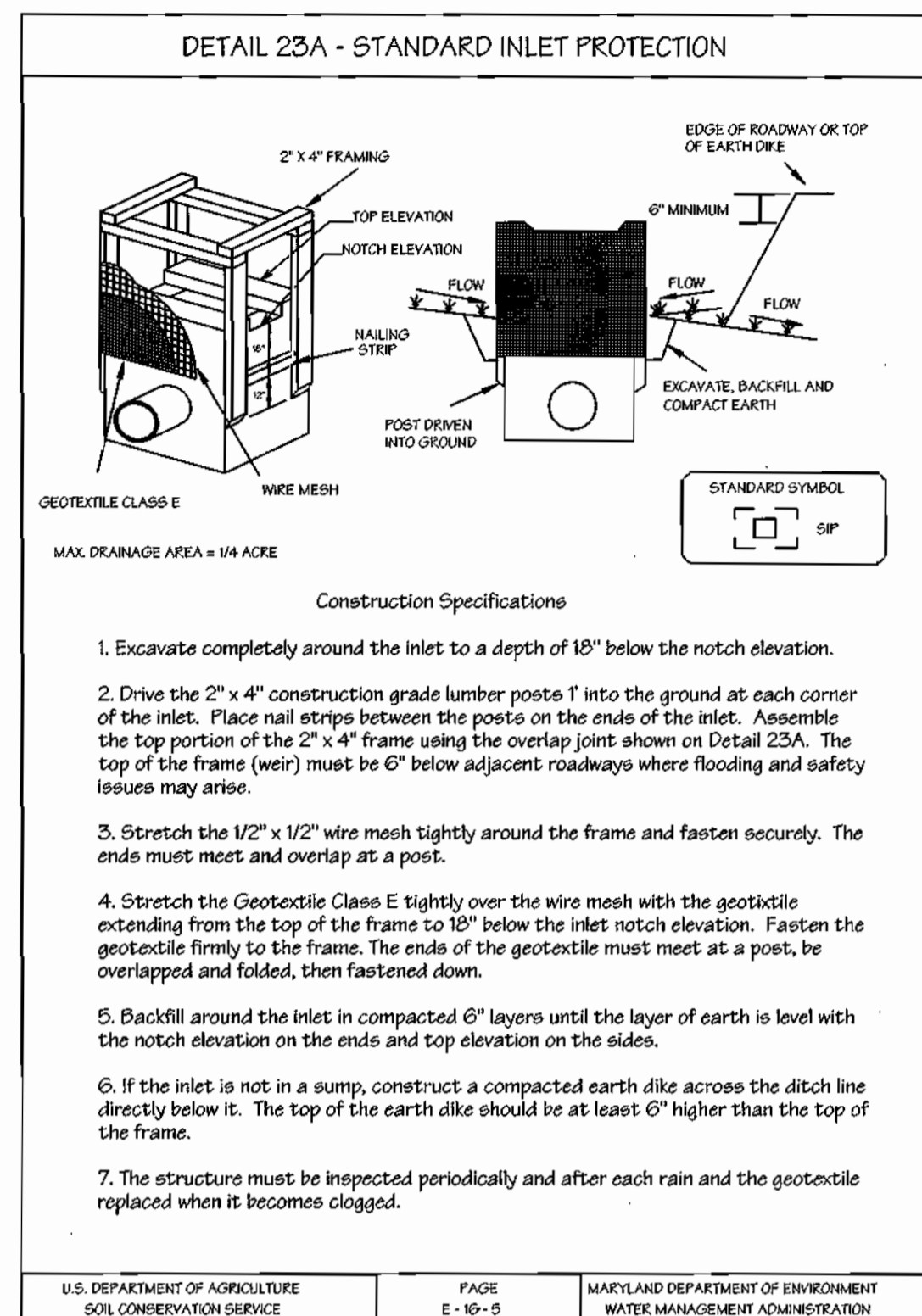
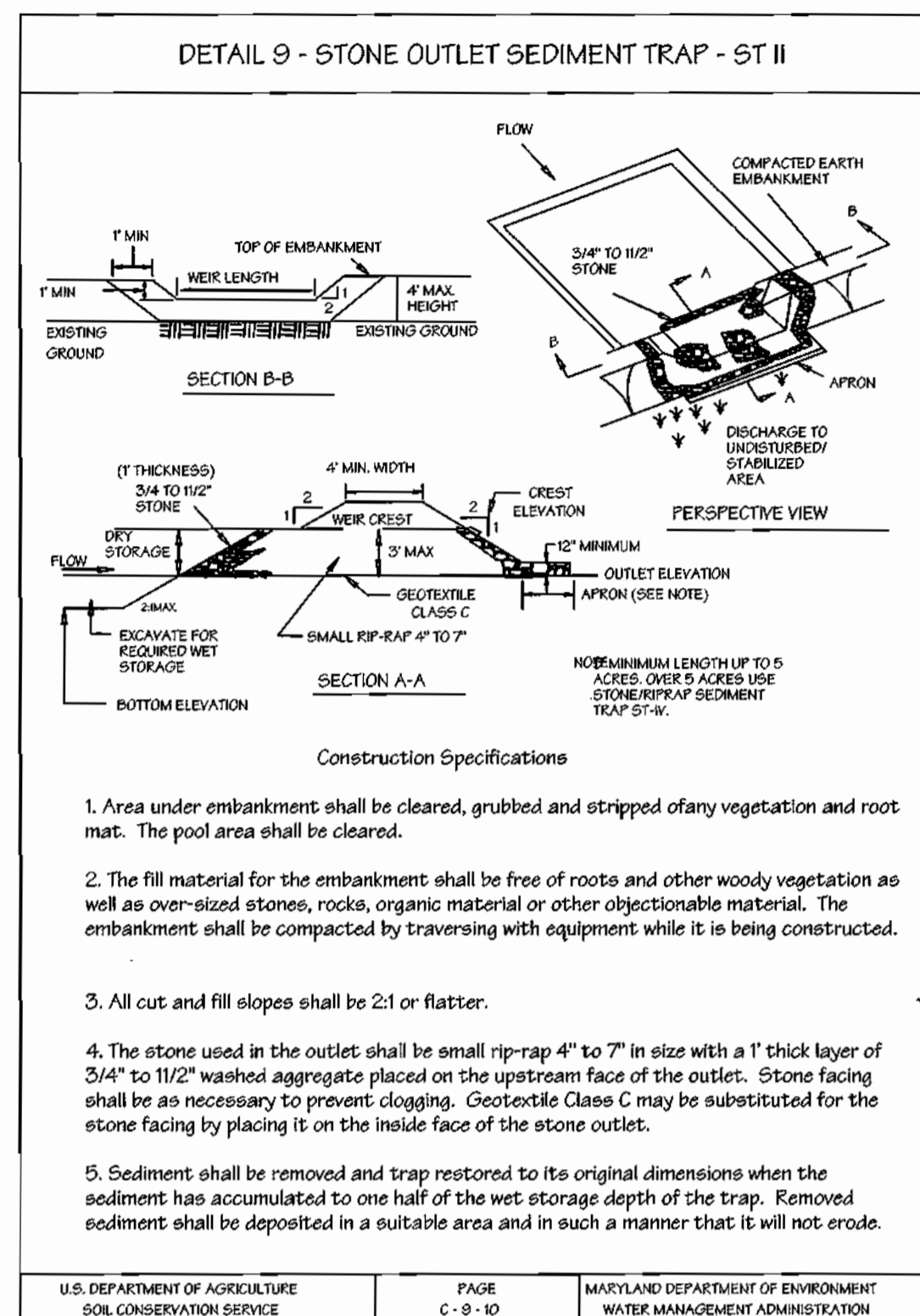
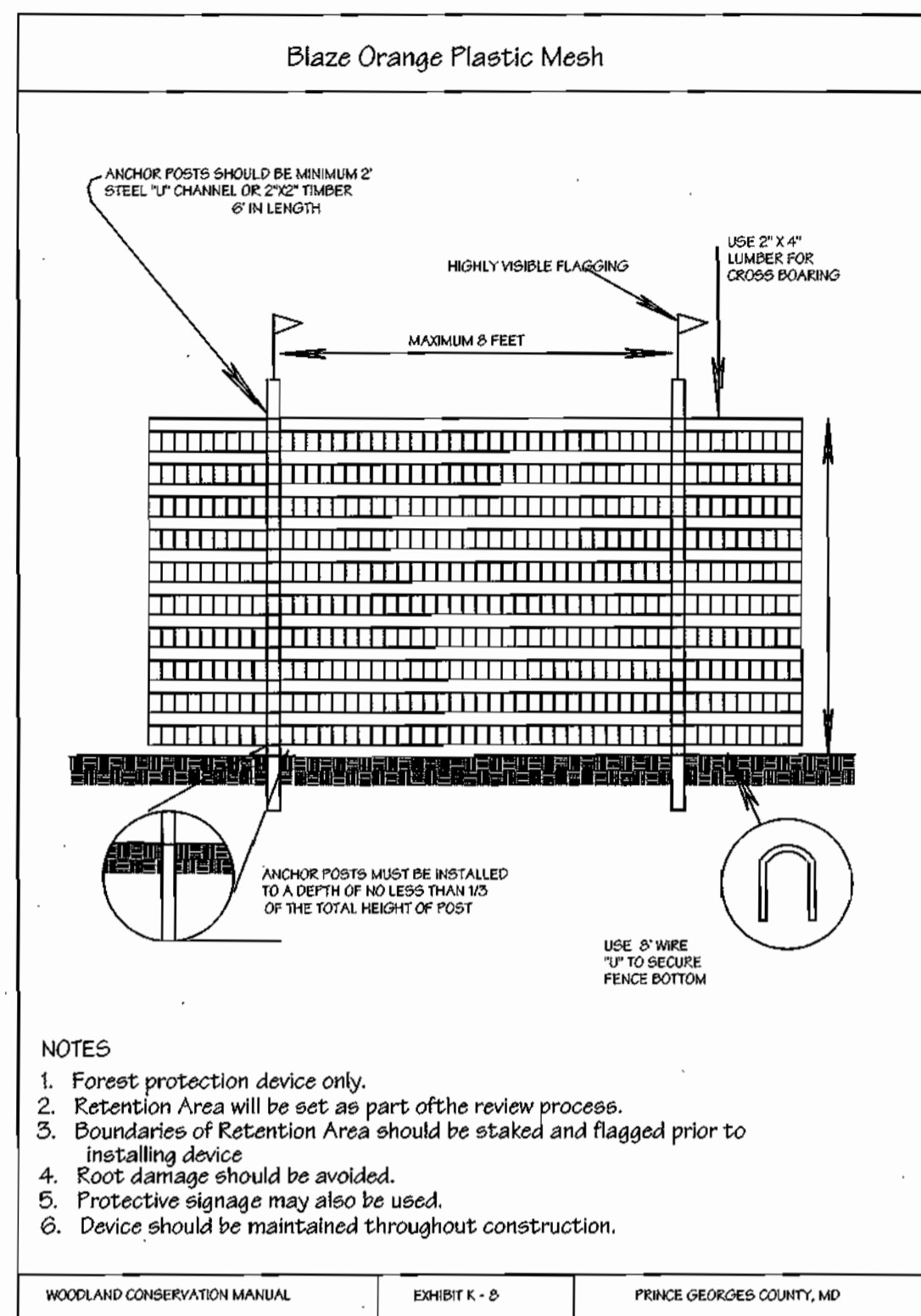
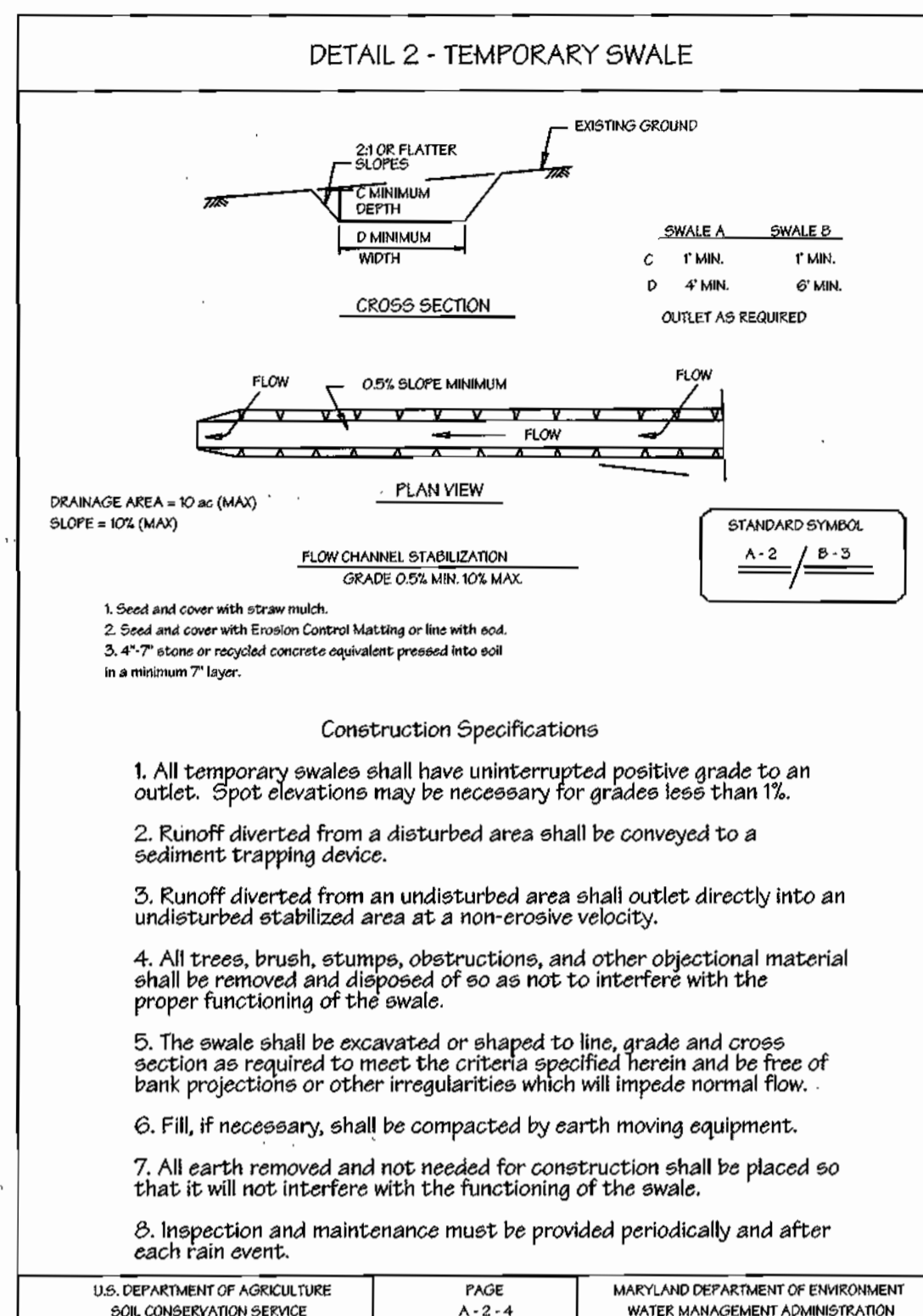
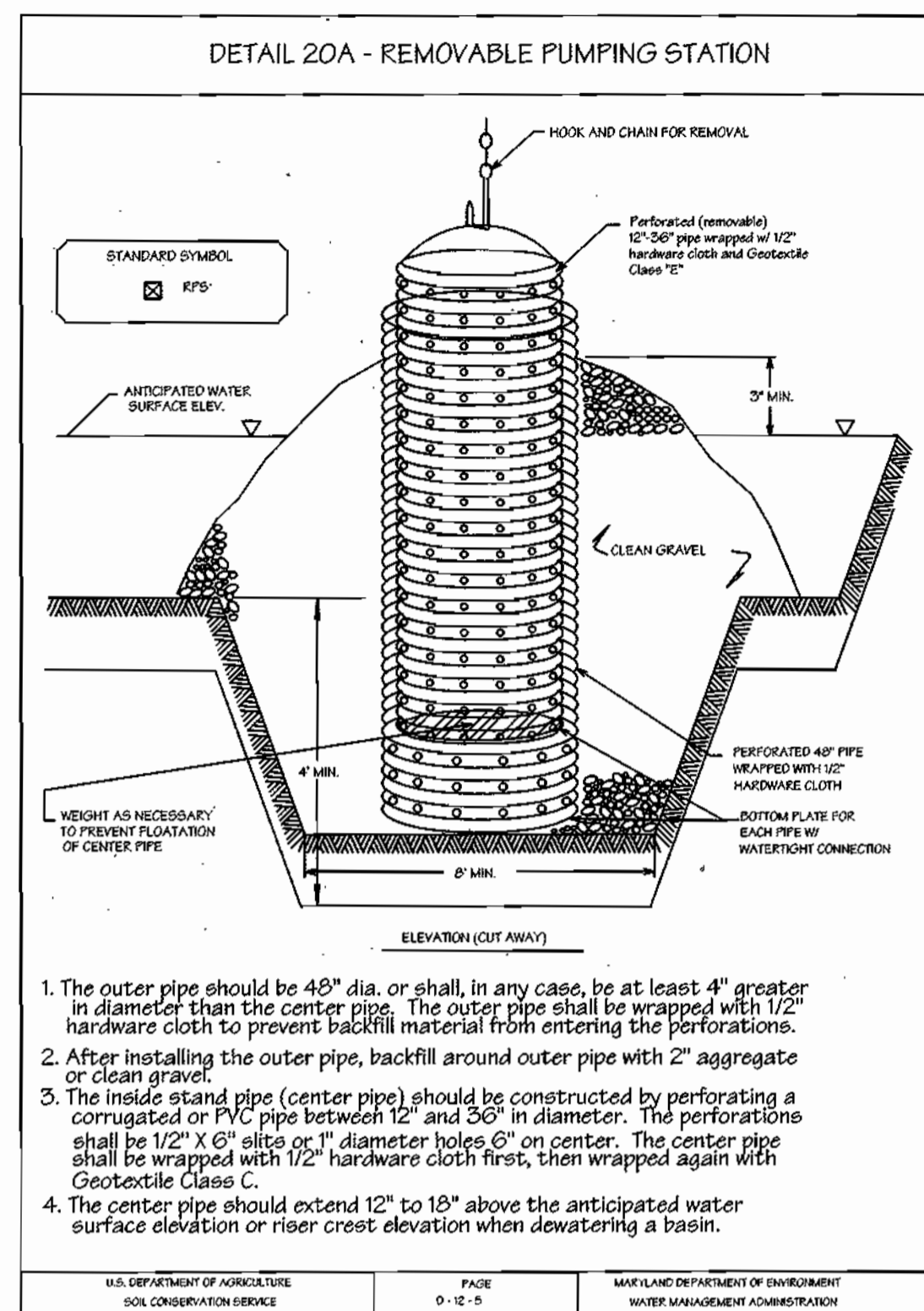
DESIGNED: E.D.S.
 DRAWN: J.L.M.
 CHECKED: B.D.B.
 DATE: 6/2003

Phase 2 Grading and Soil Erosion & Sediment Control Plan
ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 003-36E, BA 01-64V, WP 03-06, F 03-96
 OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King, Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 18 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05





APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Debra Brantley 7-17-03
HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Hart 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hart 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Mark M. Leight 7/24/03
DIRECTOR DATE

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

Jim Arroyo 7/8/03
DISTRICT RESOURCE SUPERVISOR DATE

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

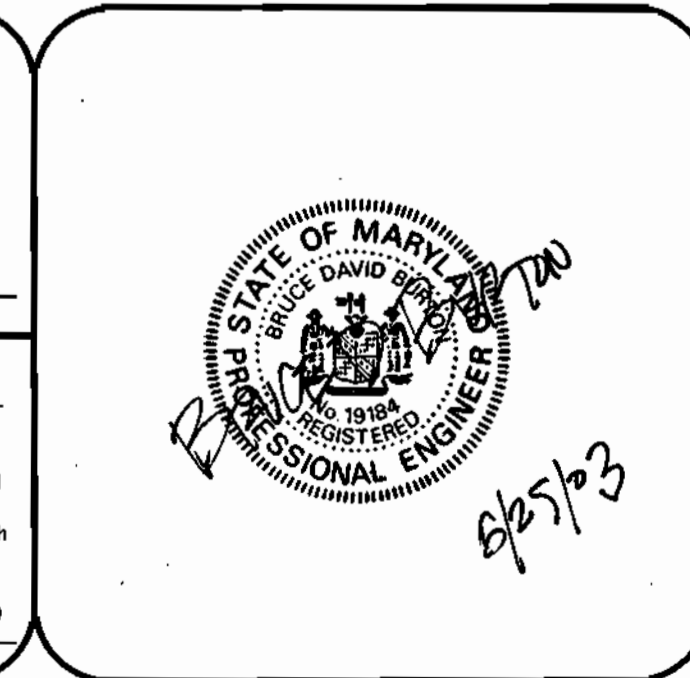
Shirley Ali 7/8/03
HOWARD SOIL CONSERVATION DISTRICT DATE

ENGINEER'S CERTIFICATE

David S. [Signature] 6/25/03
REGISTERED PROFESSIONAL ENGINEER DATE

DEVELOPER'S CERTIFICATE

[Signature] 6/25/03
SIGNATURE OF DEVELOPER DATE



REVISIONS		
No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH Sect/Area: 203 Parcel No. 6050
 Block No. 16 Zone RC-DEO Tax Map No. 16 Election District 3rd Census Tract
 Water Code J02 Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. SCALE: As Shown
 DRAWN: J.L.M. DRAWINGS: 20 of 33
 CHECKED: B.D.B. JOB NO.: 00-003
 DATE: 6/2003 OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH FILE NO.: SDP 02-05
 PHASE ONE & TWO
 L 4195/F 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland
 Previous Submittals: BA 87-46E, BA 003-36E, BA 01-64V, WF 03-06, F 03-96
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

POND CONSTRUCTION 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 stripped of topsoil. All trees, vegetation, roots, and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and grubbed within 15 feet of the toe of the embankment.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish, and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level to the ground surface. For dry stormwater management ponds, a minimum of a 25 foot radius around the inlet structure shall be cleared.

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.

EARTH FILL

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification GC, SC, CH, or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by a geotechnical engineer.

Materials used in the outer shell of the embankment must have the capability to support vegetation of the quality required to prevent erosion of the embankment.

Placement - Areas on which fill is to be placed shall be scarified prior to the placement of fill. Fill materials shall be placed in maximum 6 inch thick (before compaction) layers which are to be continuous over the entire length of fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway 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 tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired, or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction 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 so wet that water can be squeezed out.

When required by the reviewing agency the minimum required density 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 compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor).

Cut off Trench - The cutoff trench shall be excavated into 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.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year water elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

STRUCTURAL BACKFILL

Backfill adjacent to pipes 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 or pipe, unless there is compacted fill of 24" or greater over the structure or pipe.

Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 313 as modified. The mixture shall have a 100-200 psi; 28 day unconfined compressive strength. The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7" to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent floating the pipe. When using flowable fill, all metal pipe shall be bituminous coated. Any adjoining soil 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 shall completely fill all voids adjacent to the flowable fill zone. 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 structure or pipe unless there is compacted fill of 24" or greater over the structure or pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of the type and quality conforming to that specified for the core of the embankment or other embankment materials.

PIPE CONDUITS

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

1. **Materials** - (Polymer Coated steel pipe) - Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-245 & M-246 with watertight coupling bands or flanges.

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 Coated Steel Pipe, when used with flowable fill or when soil and/or water conditions warrant the need for increased durability, shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-196 or M211 with watertight coupling bands or flanges. Aluminum Pipe, when used with flowable fill or when soil and/or water conditions warrant for increased durability, shall be fully bituminous coated per requirements of AASHTO Specifications M-190 Type A. 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.

2. **Coupling bands, anti seep-collars, end sections, etc.,** must be composed of the same material and coatings as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

3. **Connections** - All connections with pipes must be completely watertight. The drain or barrel connection 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 bands are not considered to be watertight.

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 band width. The following type connections are acceptable for pipes less than 24" in diameter: flanges on both ends of the pipe, with a circular 3/8" closed cell neoprene gasket, pre-punched to the flange bolt circle, sandwiched between adjacent flanges; a 12 inch wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12 inch wide hugger type band with O-ring gaskets having a minimum diameter of 1/2 inch greater than the corrugated depth. Pipes 24" in diameter and larger shall be connected by a 24" long annular corrugated band using a minimum of 4 (four) rods and lugs, 2 on each connecting pipe end. A 24" wide by 3/8" thick closed cell circular neoprene gasket will be installed with 12 inches on the end of each pipe. Flanged joints with 3/8" closed cell gaskets the full width of the flange is also acceptable.

Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

4. **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.

5. **Backfilling** shall conform to "Structure Backfill."

6. **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:

1. **Materials** - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.

2. **Bedding** - Reinforced concrete pipe conduits shall be laid in a concrete bedding/cradle for their entire length. This bedding/cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 50 % of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in "Structure Backfill" section of this standard. Gravel bedding is not permitted.

3. **Laying pipe** - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire length, 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 4 feet from the riser.

4. **Backfilling** shall conform to "Structure Backfill."

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

Plastic Pipe - The following criteria shall apply for plastic pipe.

1. **Materials** - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4" - 10" pipe shall meet the requirements of AASHTO M252 Type 5, and 12" through 24" shall meet the requirements of AASHTO M294 Type 5.

2. **Joints and connections** to anti-seep collars shall be completely watertight.

3. **Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. **Backfilling** shall conform to "Structure Backfill."

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

DRAINAGE DIAPHRAGMS - When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

CONCRETE:

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

ROCK RIPRAP:

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311.

Geotextile shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09, Class C.

CARE OF WATER DURING CONSTRUCTION:

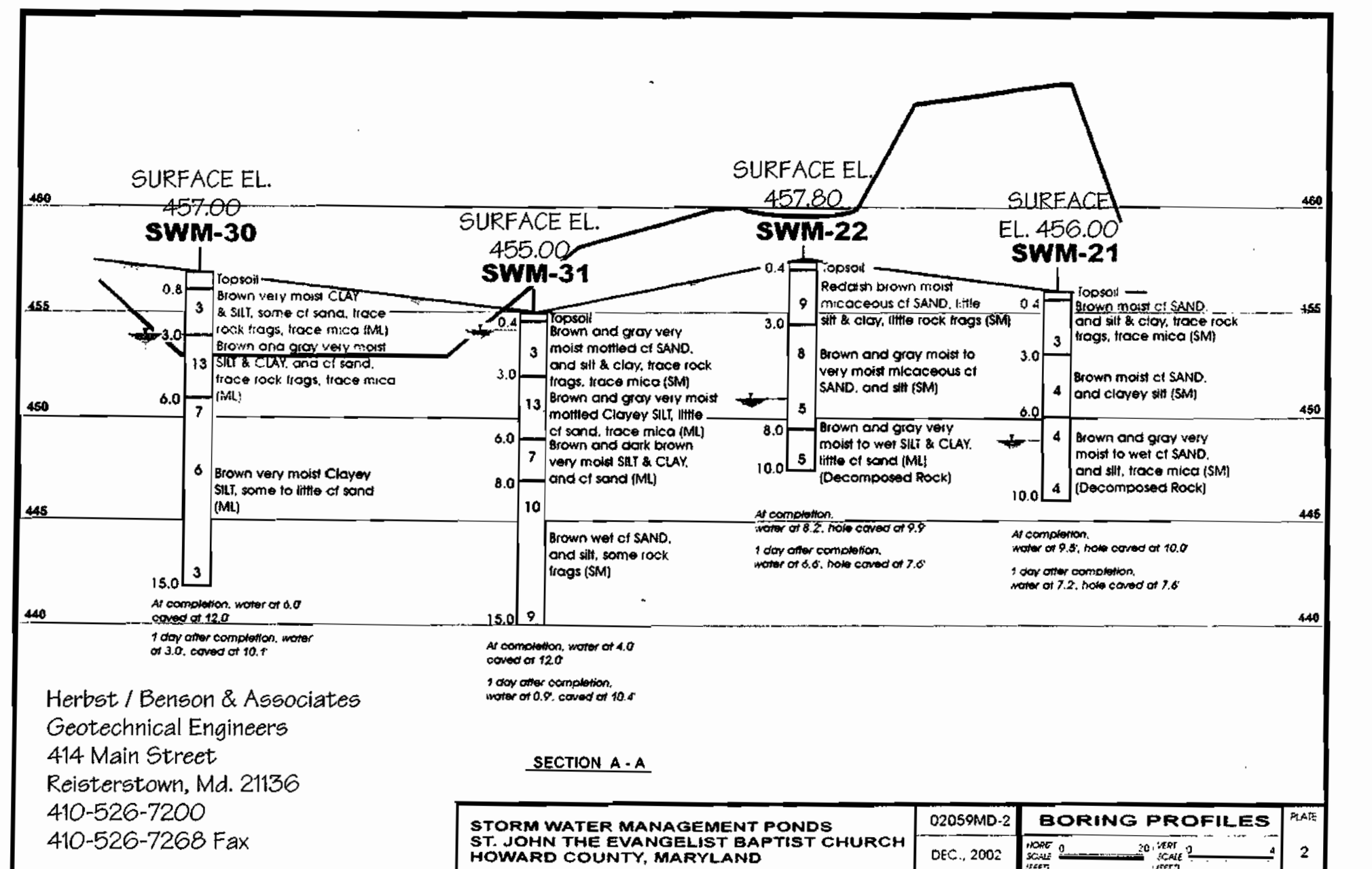
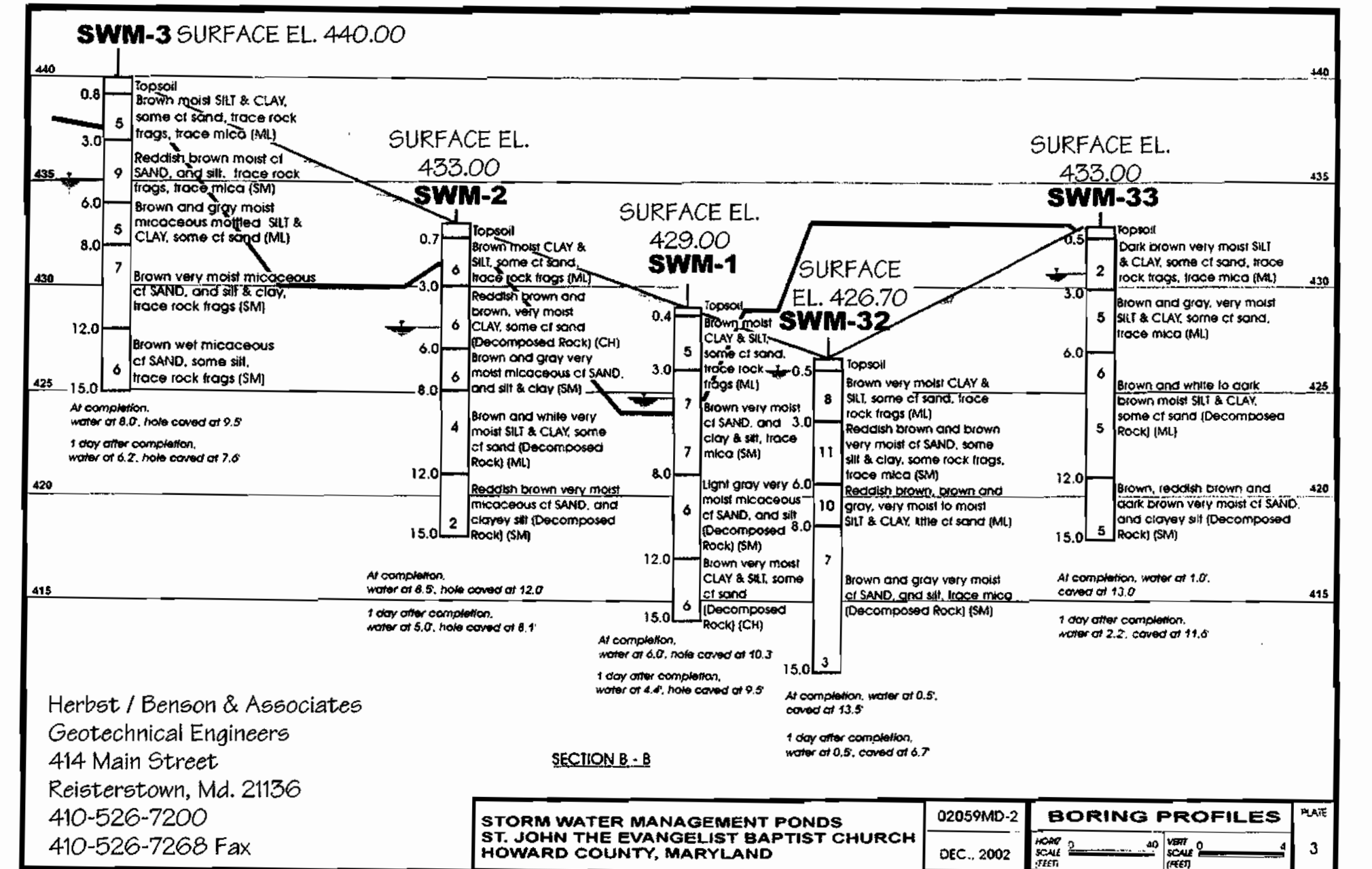
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also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

STABILIZATION:

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resource Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

EROSION AND SEDIMENT CONTROL:

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

[Signature] 7/8/03
TECHNICAL RESOURCE CONSERVATION SERVICE

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

[Signature] 7/8/03
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction and sediment control represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the appropriate agencies and 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 specific on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as 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 specific on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
DAVID J. BULLOCK
6/25/03

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7/26/03
HOWARD COUNTY HEALTH OFFICER: SRK

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

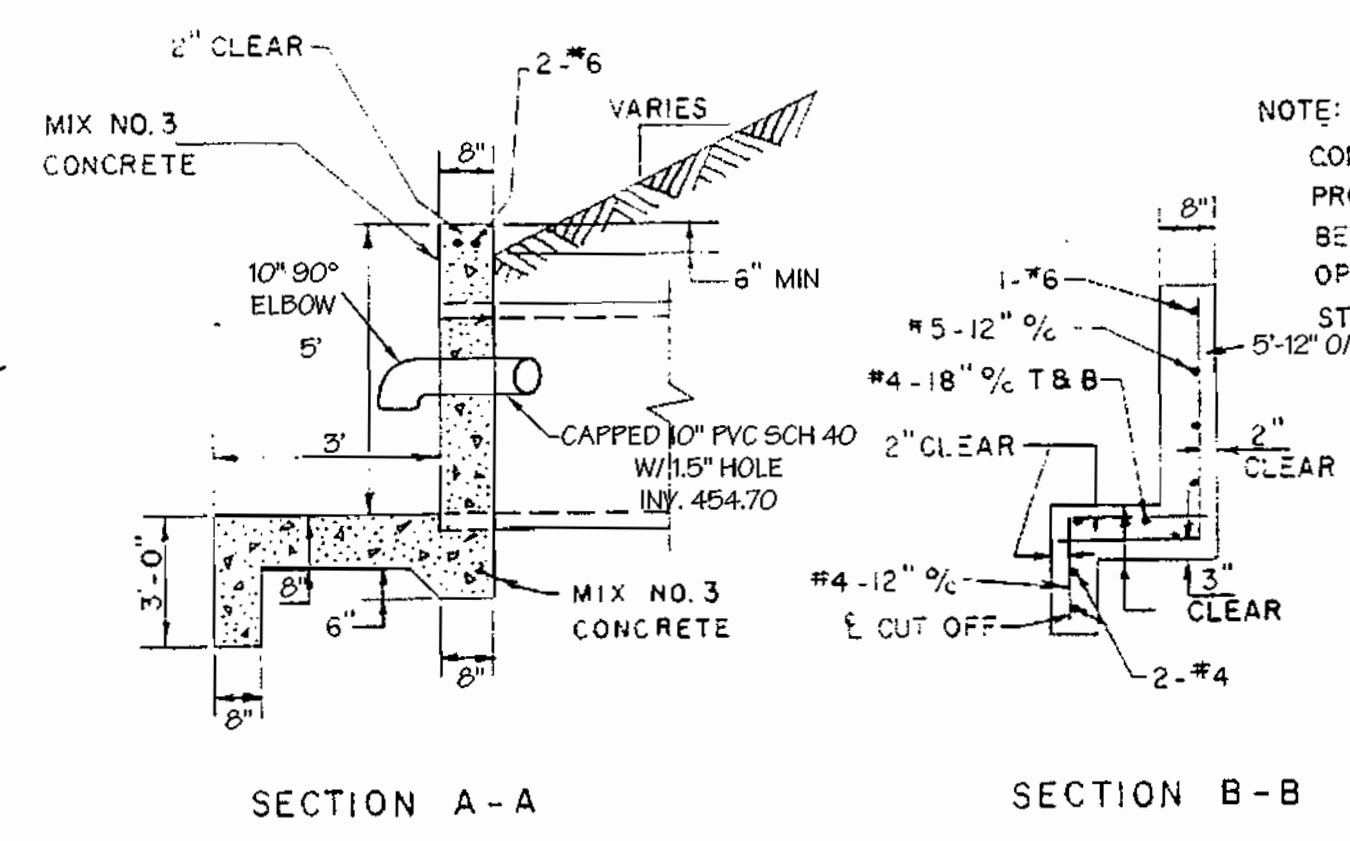
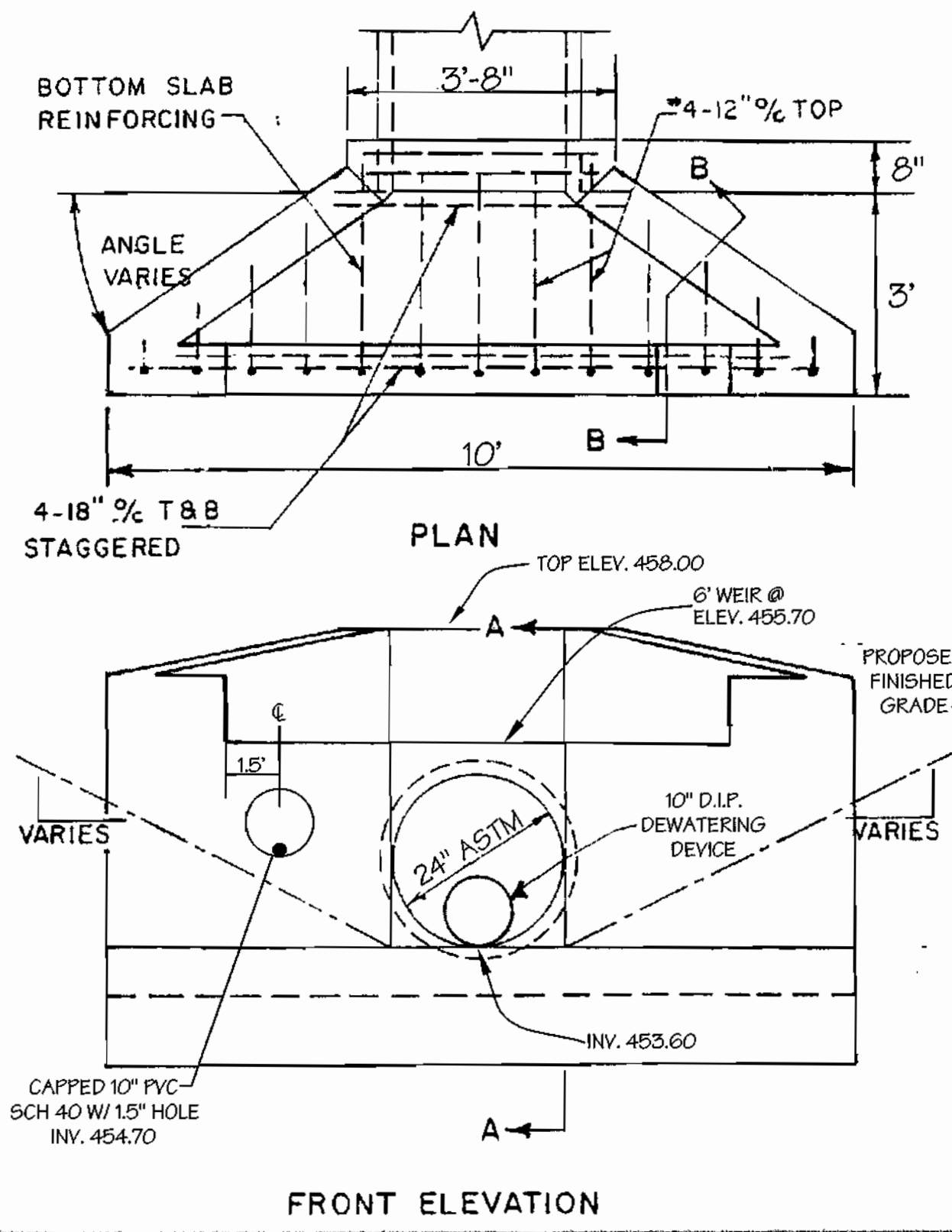
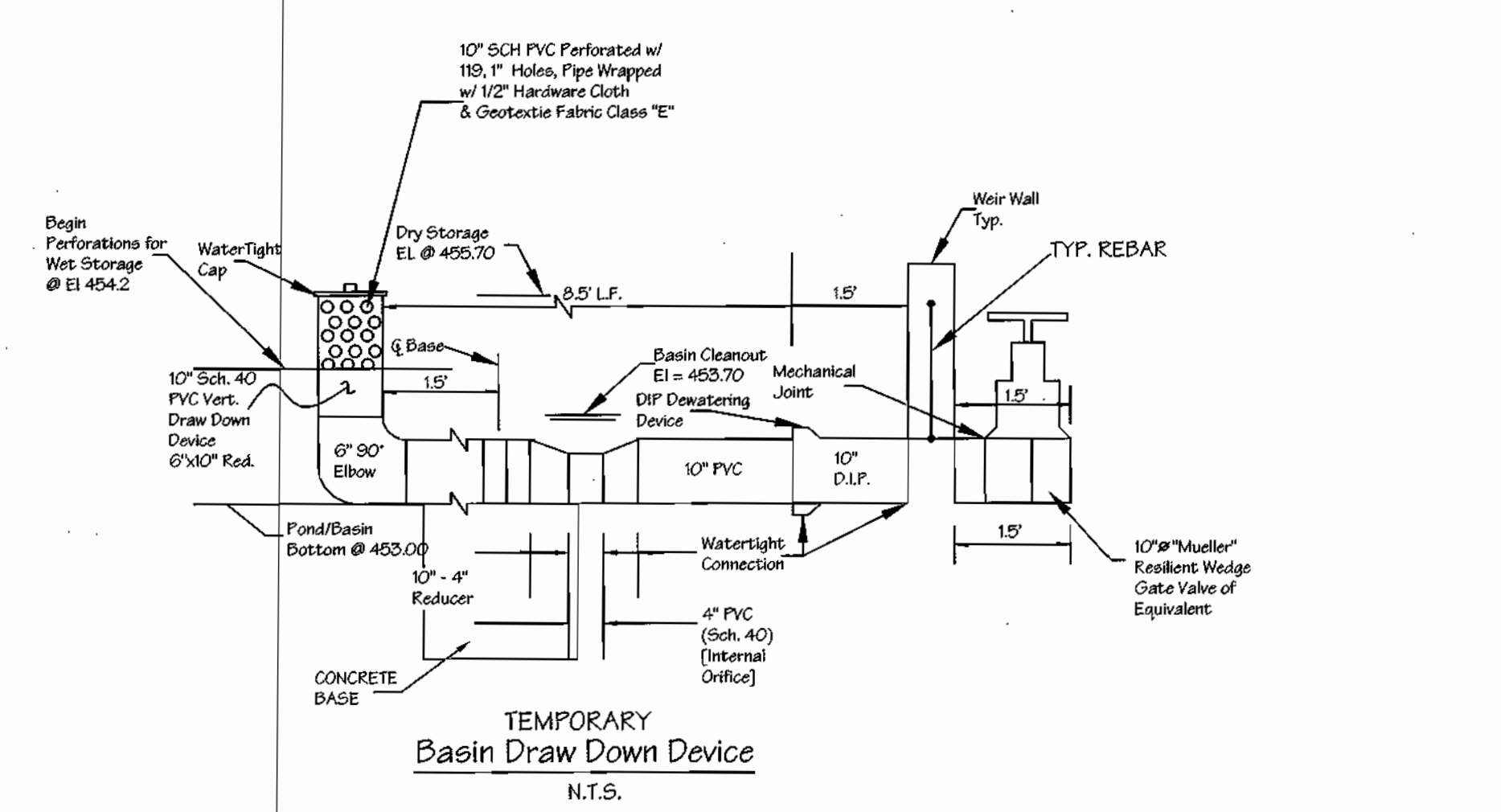
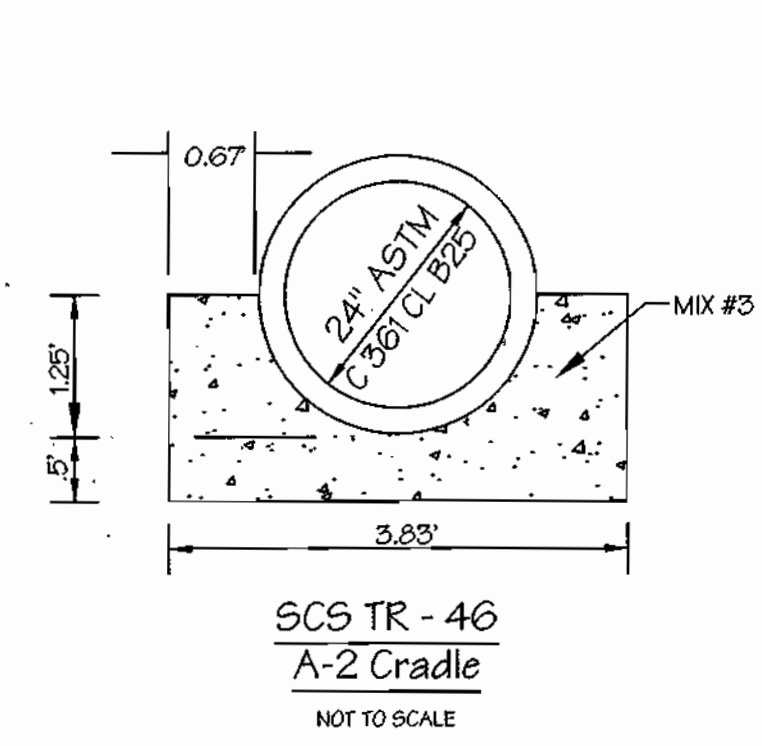
9250 Rumsby Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S., B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/2003

Scale: As Shown
Drawing: 21 of 33
Job No.: 00-003
Previous Submittals: BA 97-46 E, BA 00-36 E, BA 01-64 Y, WP 03-06, F 03-96
OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
610 Mr. Lonnie King Jr., 8910 Old Annapolis Road / MD, Route 108, Columbia, Maryland 21045

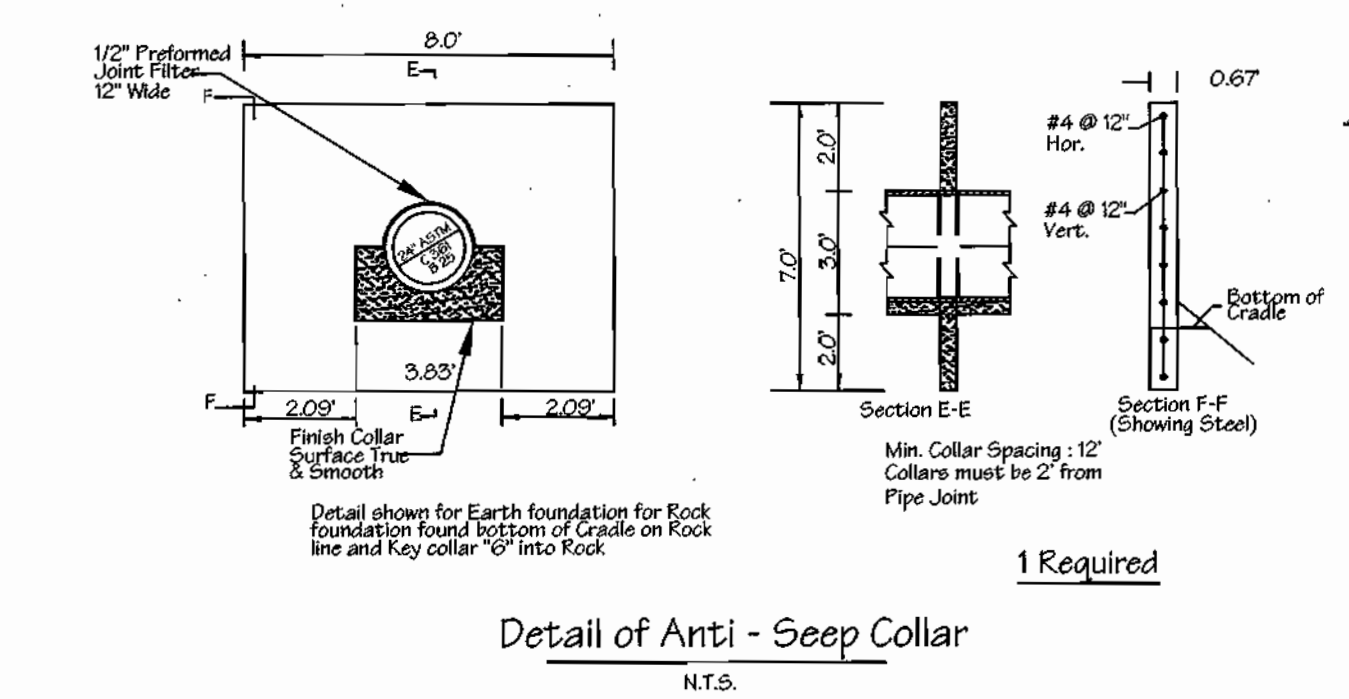
SDP 02-05

5-1 SWM STRUCTURE DETAILS
N.T.S.



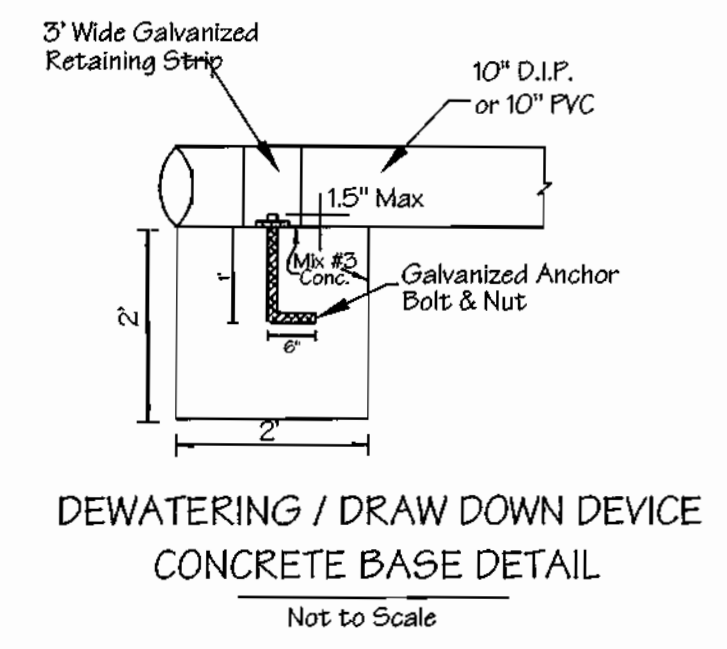
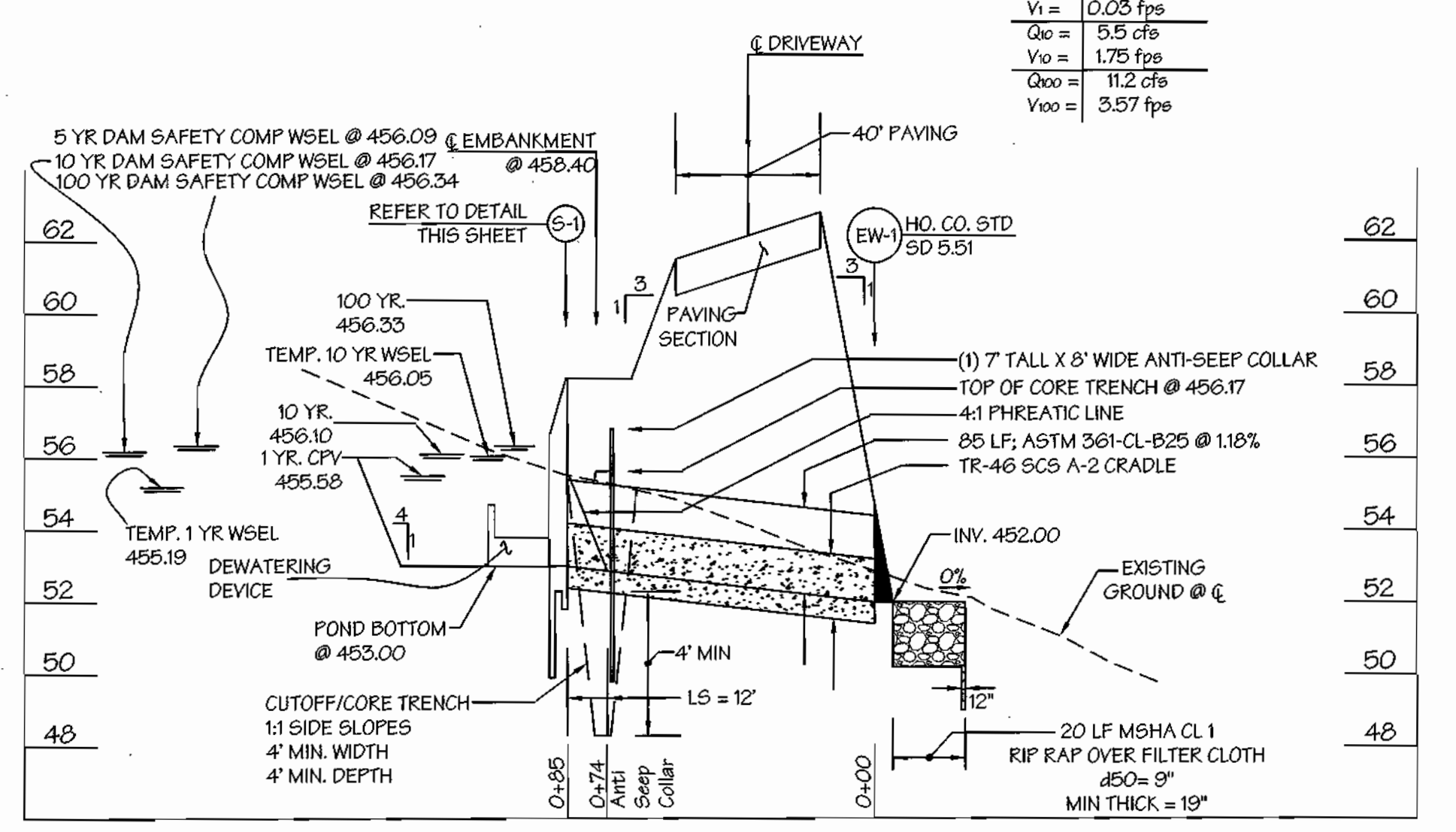
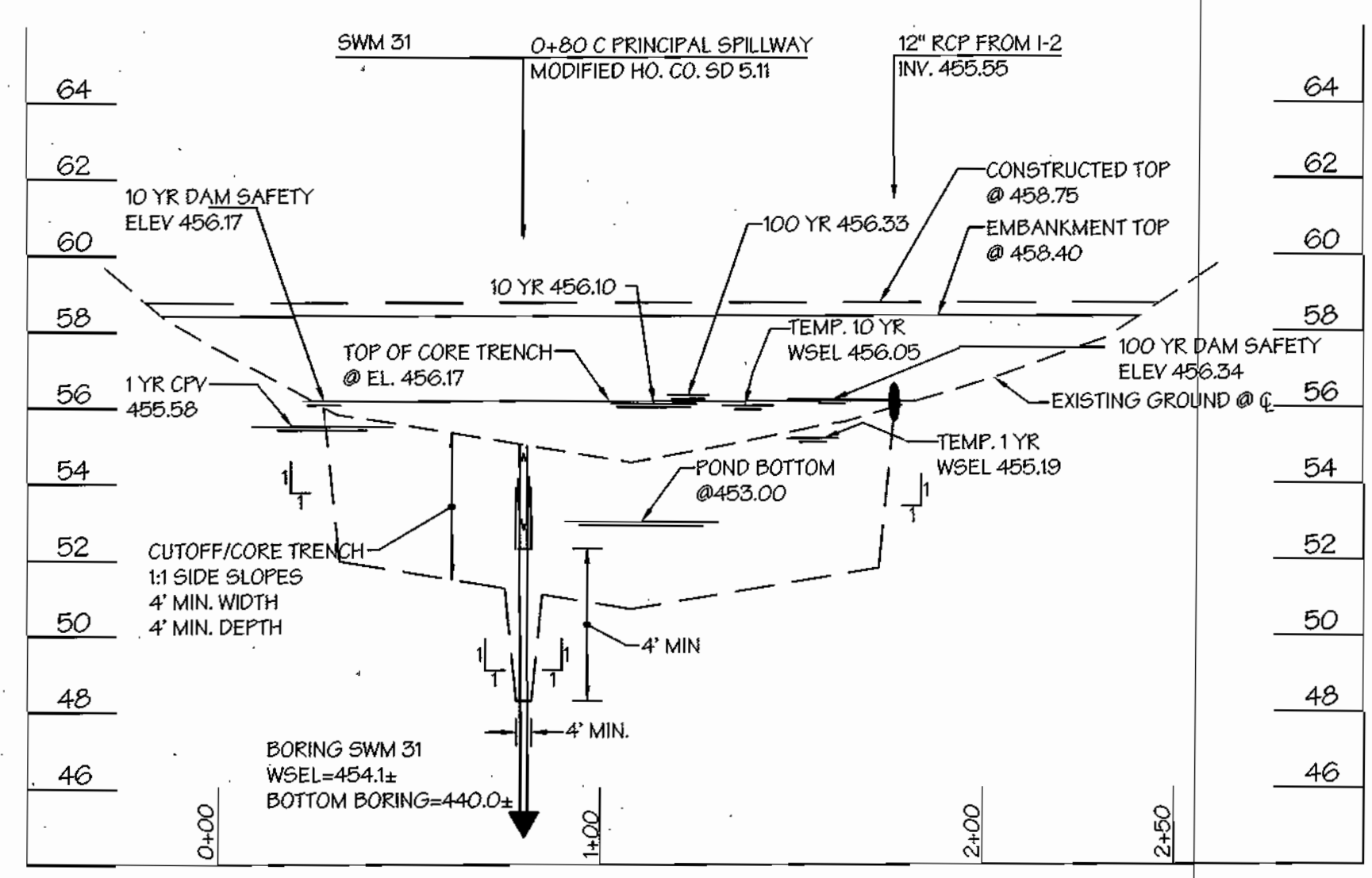
- NOTES:
1. A Geotechnical Engineer is to be present on-site to supervise the construction of the core / cutoff trench, per MD 37B Specifications.
 2. Core trench shall be dewatered prior to the placement of County Approved fill material.
 3. The site shall be stripped of topsoil and any other unsuitable materials from the embankment of structure area in accordance with Soil Conservation guidelines. After stripping operations have been completed, the exposed subgrade materials should be proof-rolled with a loaded dump truck or similar equipment in the presence of the Geotechnical Engineer or his representative. For areas that are not accessible to a dump truck, exposed material shall be observed and tested by a geotechnical engineer or his representative utilizing a Dynamic Cone Penetrometer. Any excessive soft or loose materials identified by proof rolling or penetrometer testing should be excavated to suitably firm soil, and then reestablished by backfilling with suitable soil.

- NOTE:
1. The Vertical Standpipe shall be removed as part of the Basin/Pond Conversion see sequence of construction Sheet 24.
 2. The vertical standpipe is modeled after SCS Detail. Page C-10-30, Sheet 20.



Ultimate "Barrel" Flows

Q _i =	0.10 cfs
V _i =	0.03 fps
Q ₀ =	5.5 cfs
V ₀ =	1.75 fps
Q ₁₀₀ =	11.2 cfs
V ₁₀₀ =	3.57 fps



AS-BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

Signature: _____ Date: _____ P.E. No: _____

Certifier means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certifier does not mean or imply a guarantee by the engineer nor does an engineer's certification relieve any other party from meeting requirements imposed by contracts, employment, or means, including meeting commonly accepted industry practices.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/22/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that this plan of construction, erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not been engaged by the contractor and I have not engaged a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the completed project.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as a participant of the Environment Approved Training Program for the Control of Sediment and Erosion. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the completed project. I also will provide periodic on-site inspections to the Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY

[Signature] 7/17/03
COUNTY HEALTH OFFICER, SRK
HOWARD COUNTY HEALTH DEPARTMENT

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Parcel No: 203			
Block No: 16	Zone: RC-DEO	Tax Map No: 16	Election District: 3rd	Census Tract: 6030
Water Code: J02	Sewer Code: N/A			

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

Private Non MB-37B Pond #1 Micropool Extended Detention
P1 Construction Details

DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: E.D.S.
DATE: 6/20/03

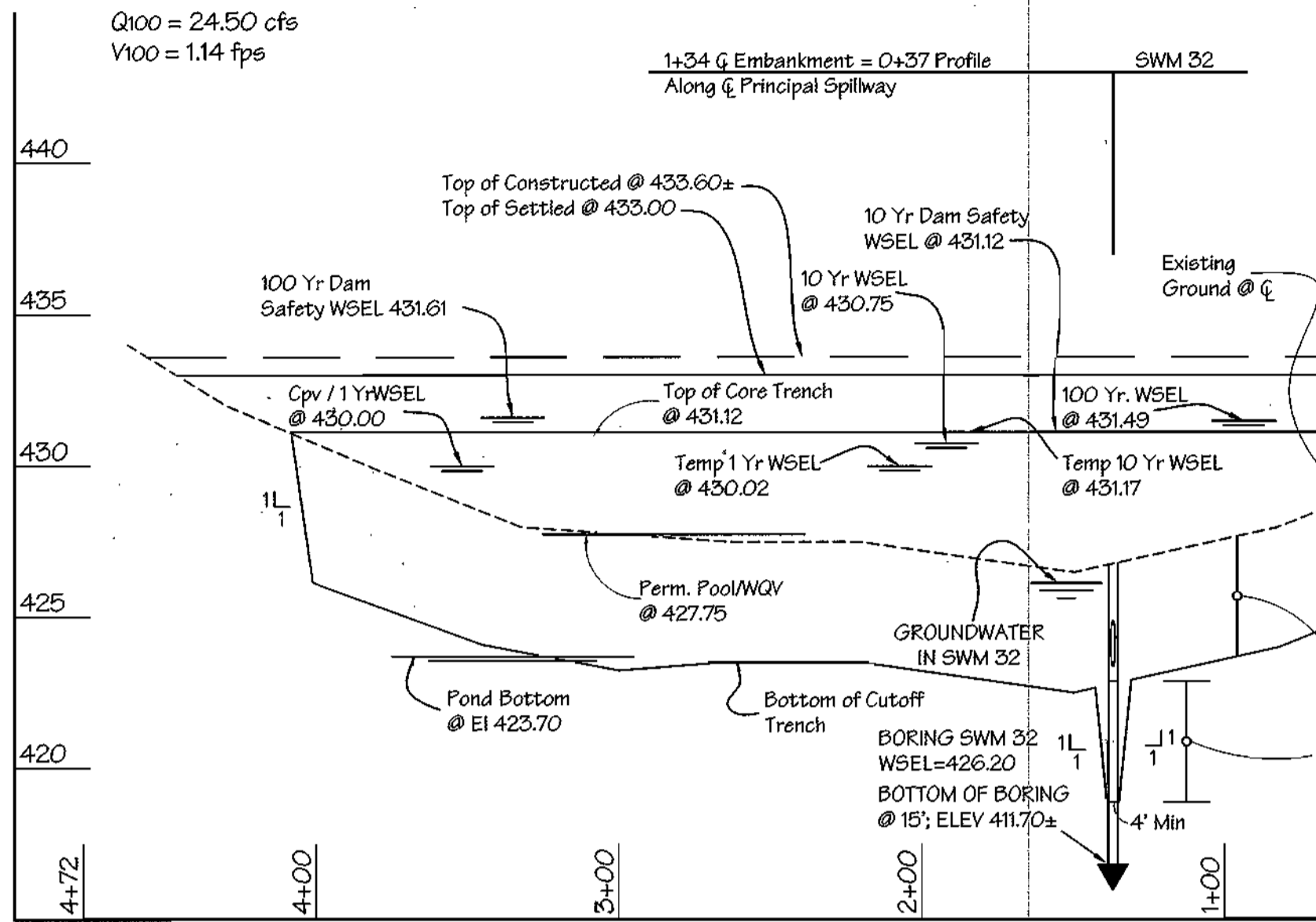
ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L-4195/F-439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 87-46E, BA 003-36E, BA 01-64V, WF 03-06, F 03-96

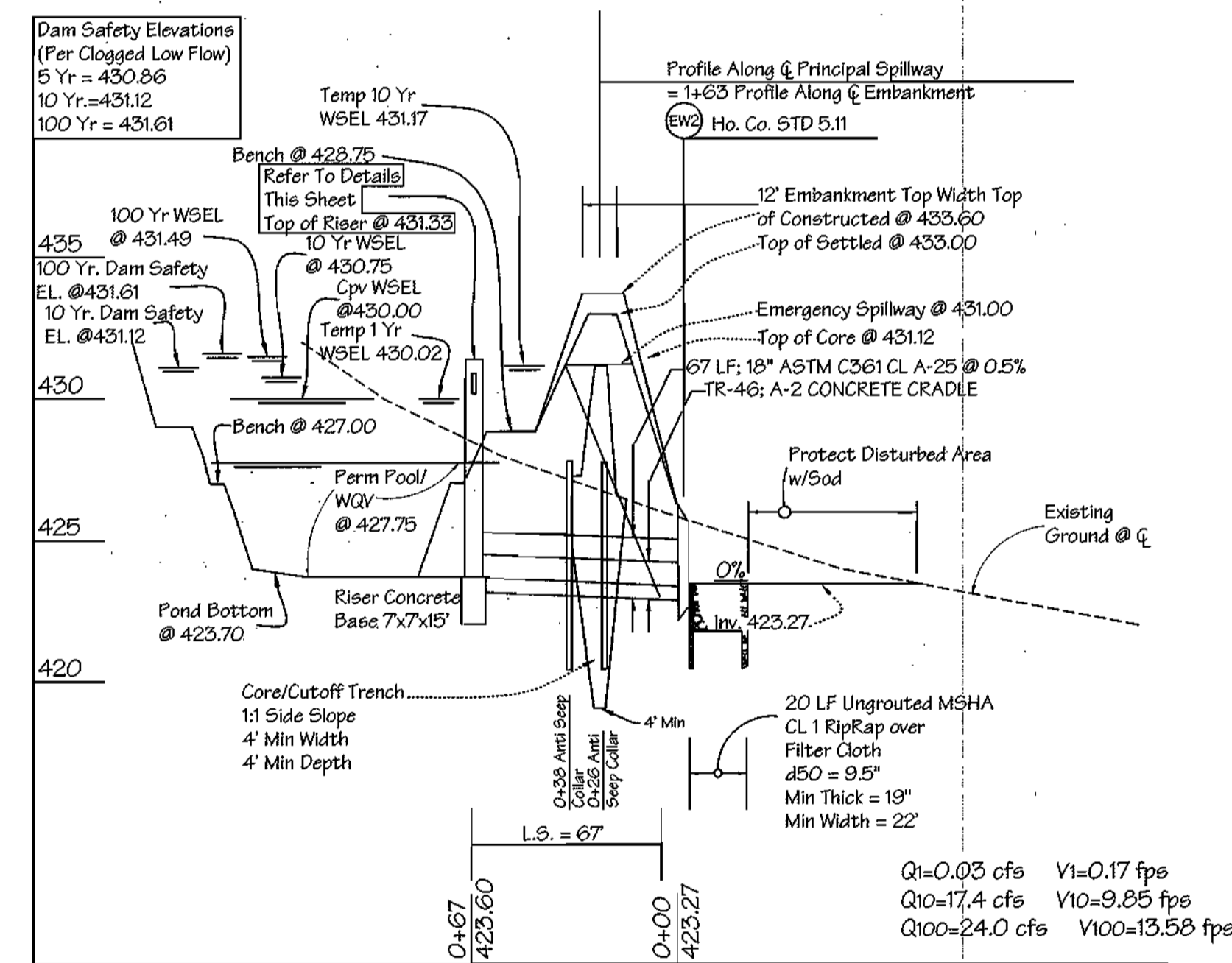
OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD, Route 108
Columbia, Maryland 21045

SCALE: As Shown
DRAWING: 22 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

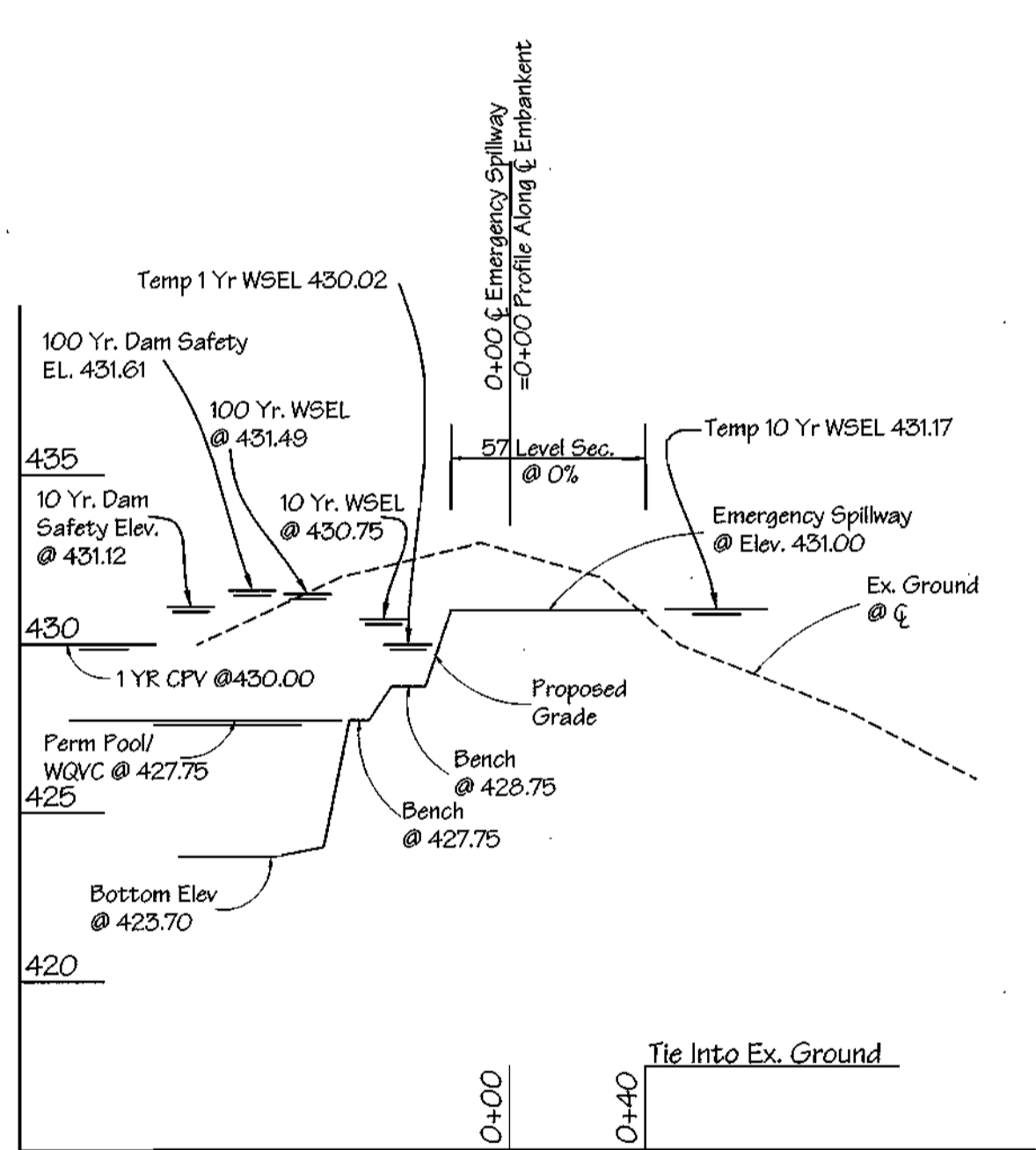
- NOTES:
- A Geotechnical Engineer is to be present on-site to supervise the construction of the core / cutoff trench, per MD 37B Specifications.
 - Core trench shall be dewatered prior to the placement of County Approved fill material.
 - The site shall be stripped of topsoil and any other unsuitable materials from the embankment of structure area in accordance with Soil Conservation guidelines. After stripping operations have been completed, the exposed subgrade materials should be proof-rolled with a loaded dump truck or similar equipment in the presence of the Geotechnical Engineer or his representative. For areas that are not accessible to a dump truck, exposed material shall be observed and tested by a geotechnical engineer or his representative utilizing a Dynamic Cone Penetrometer. Any excessive soil or loose materials identified by proof rolling or penetrometer testing should be excavated to suitable firm soil, and then reestablished by backfilling with suitable soil.
 - Soil Borings by Horvath/Benson & Associates, see sheet 21.



Profile Along C Embankment
Scale: 1" = 50' Horizontal
1" = 5' Vertical

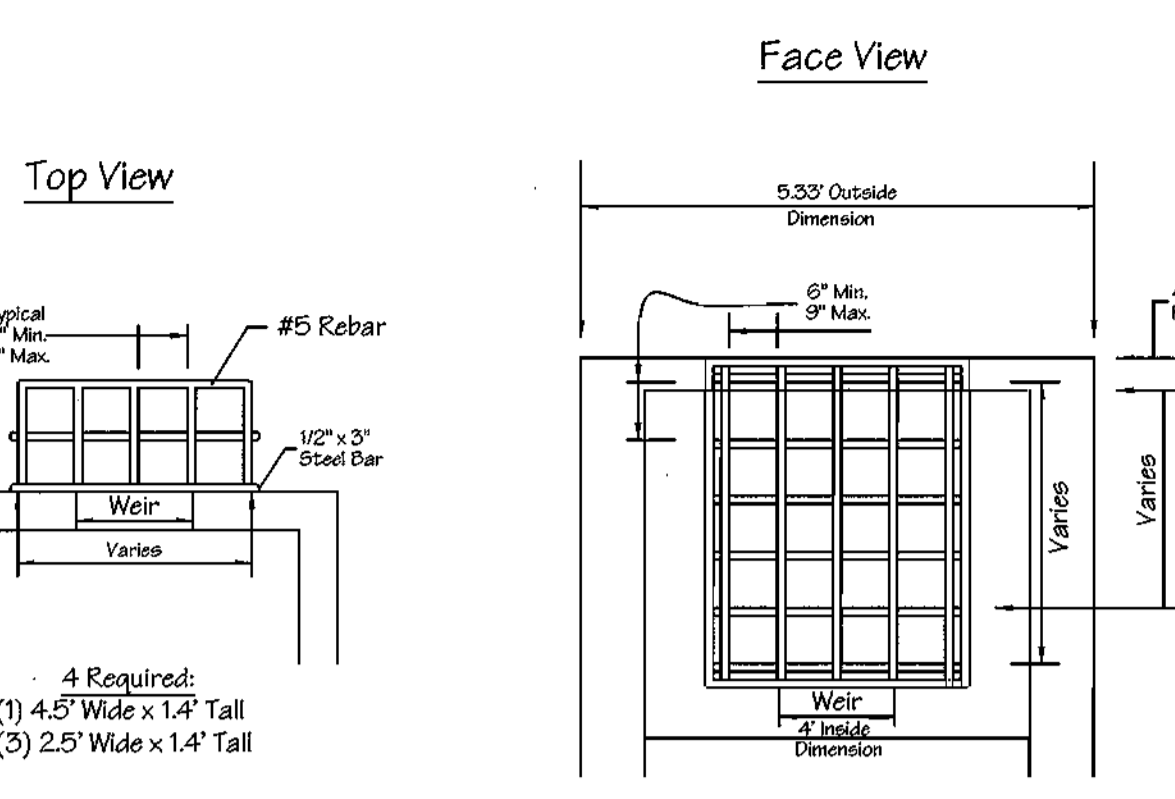


Profile Along C Principal Spillway
Scale: 1" = 50' Horizontal
1" = 5' Vertical

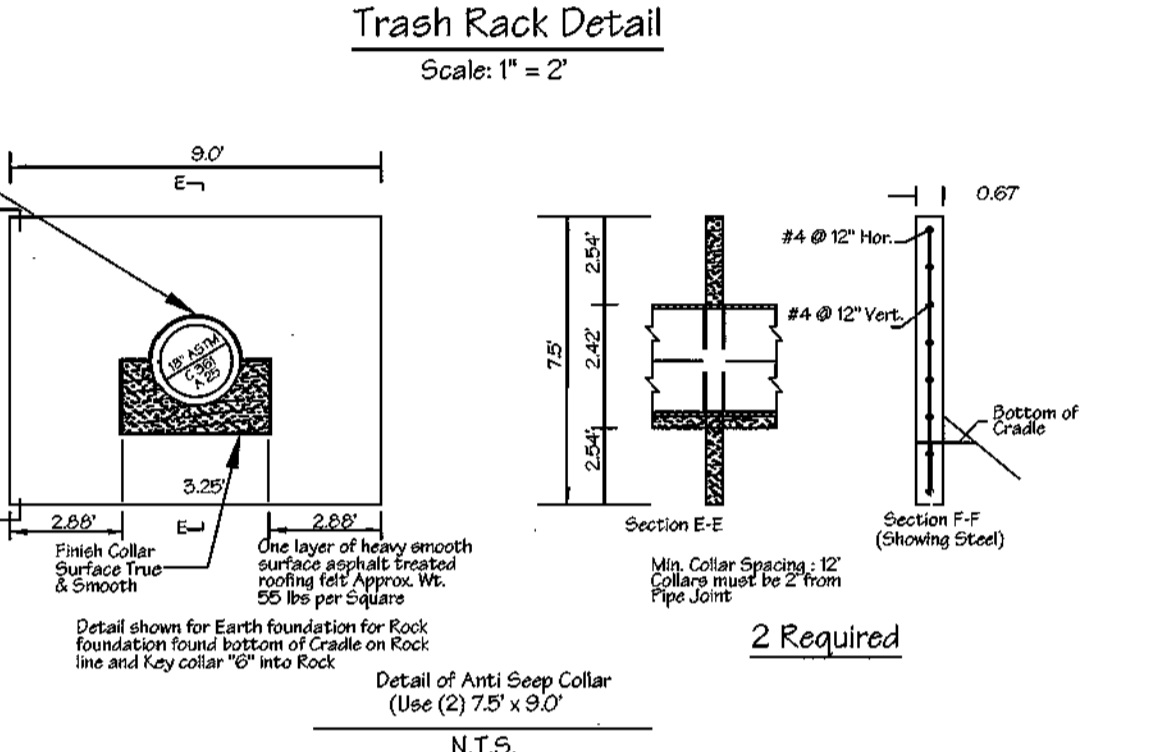


Profile Along C Emergency Spillway
Scale: 1" = 50' Horizontal
1" = 5' Vertical

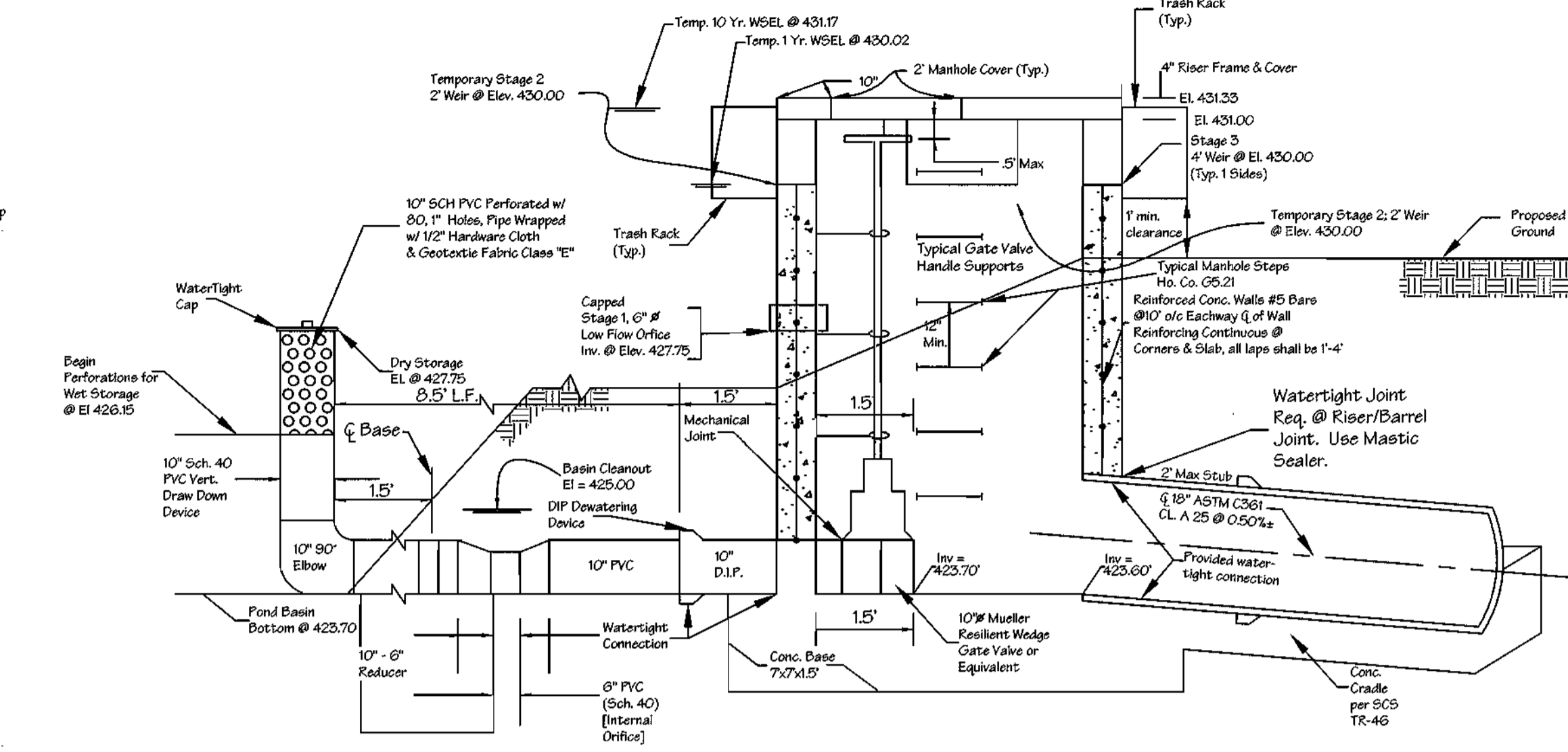
- NOTES:
- All pipe joints must conform to ASTM C361 Specifications
 - Use only County Approved fill material for Core / Cutoff trench.
 - All pipe joints shall be watertight.
 - Anti-Sleep collar locations may require modification if pipe lengths are longer than 4 ft sections. Contractor shall notify the engineer prior to construction for modified locations.
 - Grout pipe joints with mastic sealer for watertight connection.
 - Sediment Basin S-2 to be converted to Ultimate S-2 per details, sheet



- NOTES:
- The steel used in the trash rack shall be galvanized and painted battleship grey after fabrication.
 - The #5 rebar to be welded to the 1/2" x 3" steel bar and bolted to the face of the structure.
 - All bolts used to be fasten trash rack to the riser structure shall be galvanized.
 - The openings between the bars shall be a minimum of 6" in all directions.

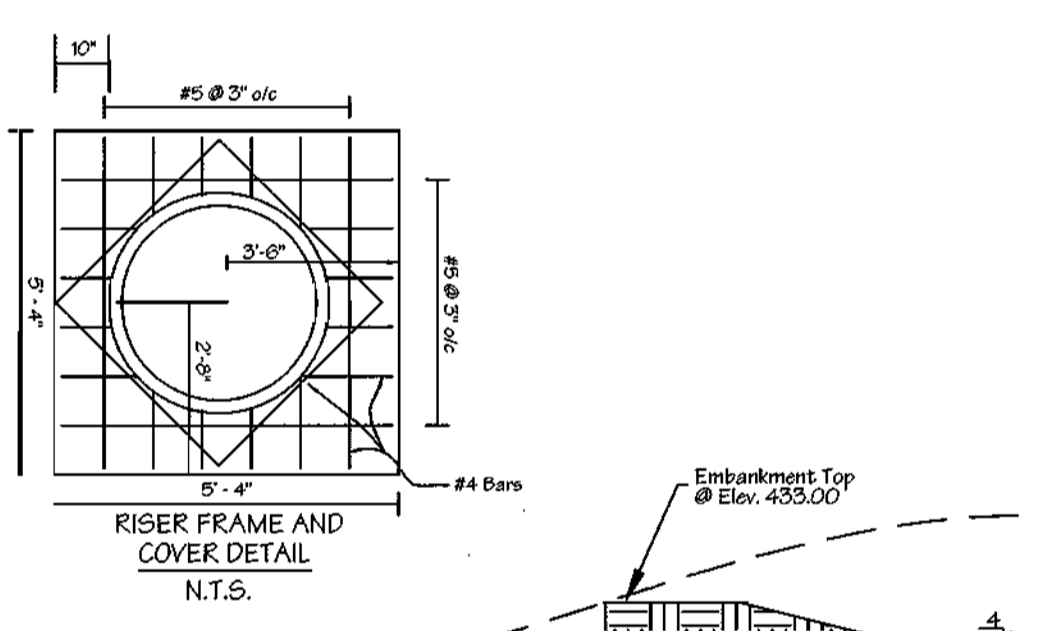


Trash Rack Detail
Scale: 1" = 2"

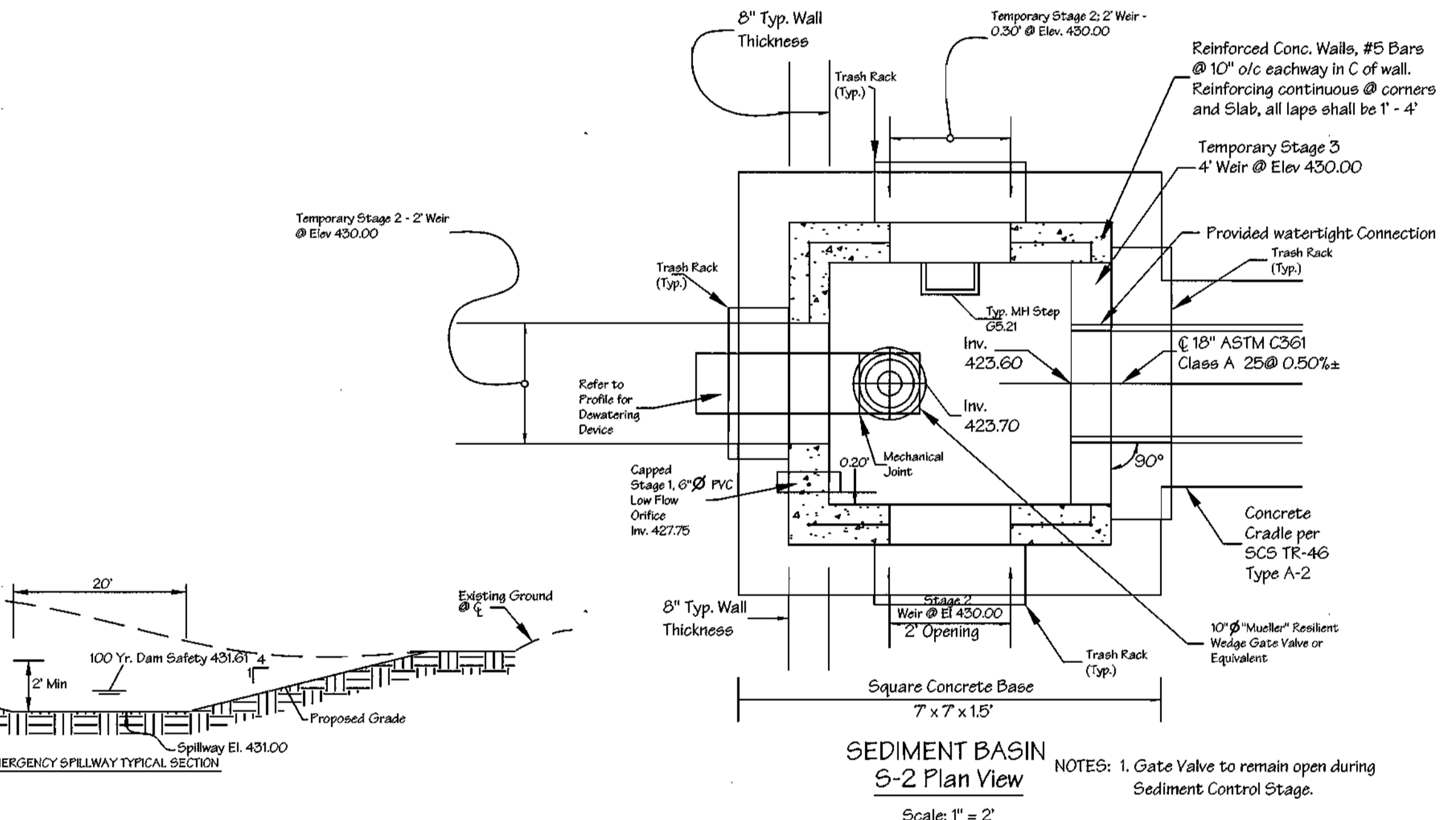


- NOTE: The Vertical Standpipe shall be removed as part of the Basin/Pond Conversion see sequence of construction sheet 24.
- NOTES:
- Gate Valve to remain open during Sediment Control Stage.
 - Refer to Plan View S-2 for weir location.
 - Draw down / Ultimate Pond Drain shall have concrete base per detail this sheet.
 - Gate Valve Handwheel Shall be Chained to a Ring Bolt or Manhole Step

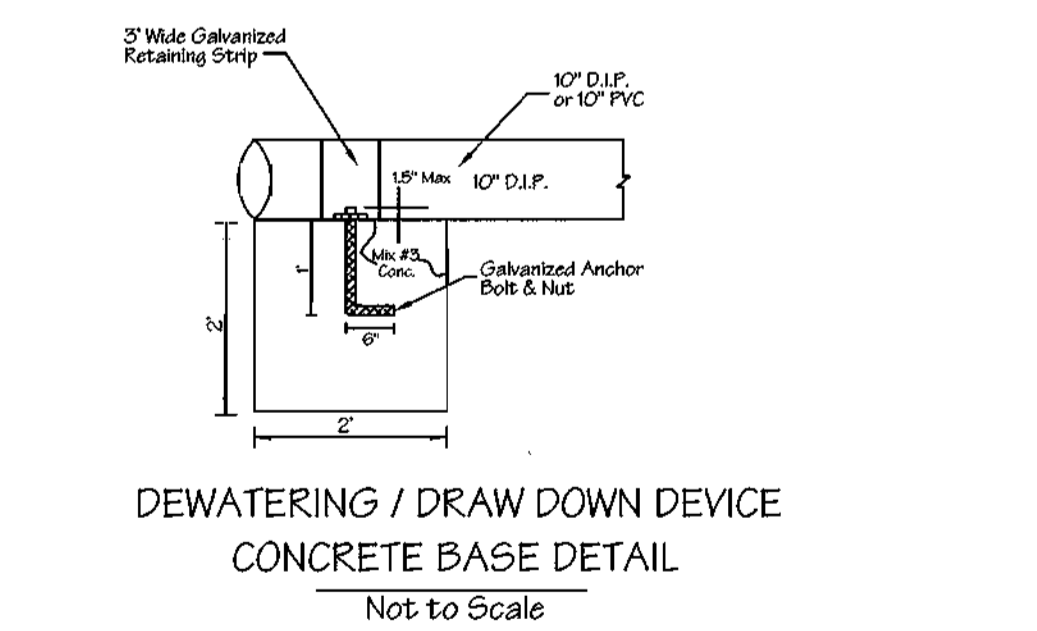
Sediment Basin S-2 Profile View
Scale: 1" = 2"



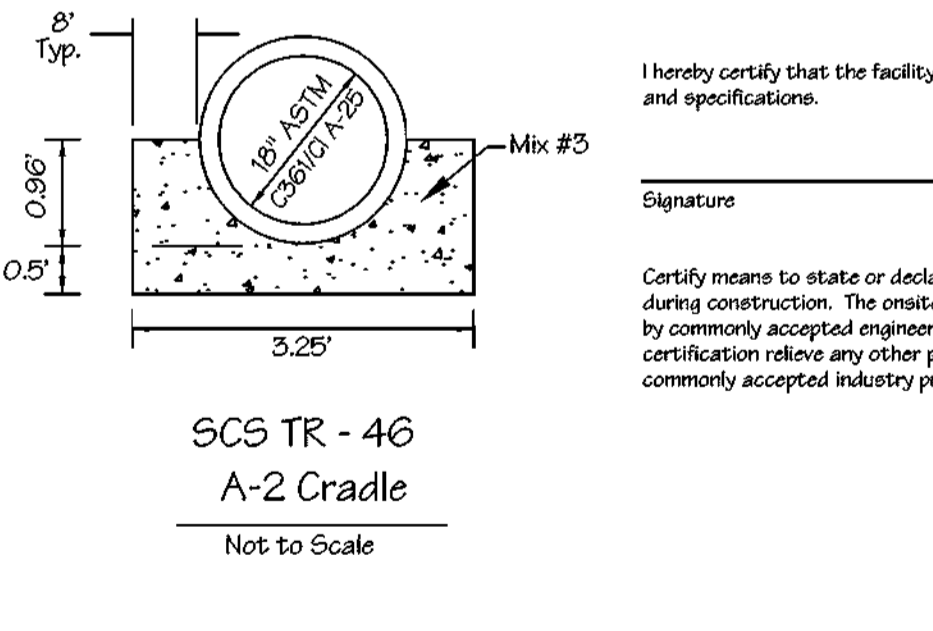
RISER FRAME AND COVER DETAIL
N.T.S.



SEDIMENT BASIN S-2 Plan View
Scale: 1" = 2"



DEWATERING / DRAW DOWN DEVICE
CONCRETE BASE DETAIL
Not to Scale



SCS TR-46
A-2 Cradle
Not to Scale

AS-BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

Signature: _____ F.E. No: _____ Date: _____

Certify means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the engineer nor does an engineer's certification relieve any other party from meeting requirements imposed by contracts, employment, or means including meeting commonly accepted industry practices.

Subdivision Name	ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sheet/Total	203
Block No.	16	Zone	RC-DEO
Tax Map No.	16	Election District	3rd
Water Code	J02	Sewer Code	N/A
Parcel No.	6030		

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

[Signature] 7/8/03
USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

[Signature] 7/8/03
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that this plan for the construction of a sediment control structure represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the Howard Soil Conservation District. I have notified the Howard Soil Conservation District of the construction of this structure and I have engaged a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan of the structure upon completion. I also authorize the use of this plan for the construction of this structure.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

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 shall engage a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan of the structure upon completion. I also authorize the use of this plan for the construction of this structure.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER

STATE OF MARYLAND PROFESSIONAL ENGINEER

[Signature] 6/25/03

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7/2/03
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

REVISIONS

No.	Date	Description

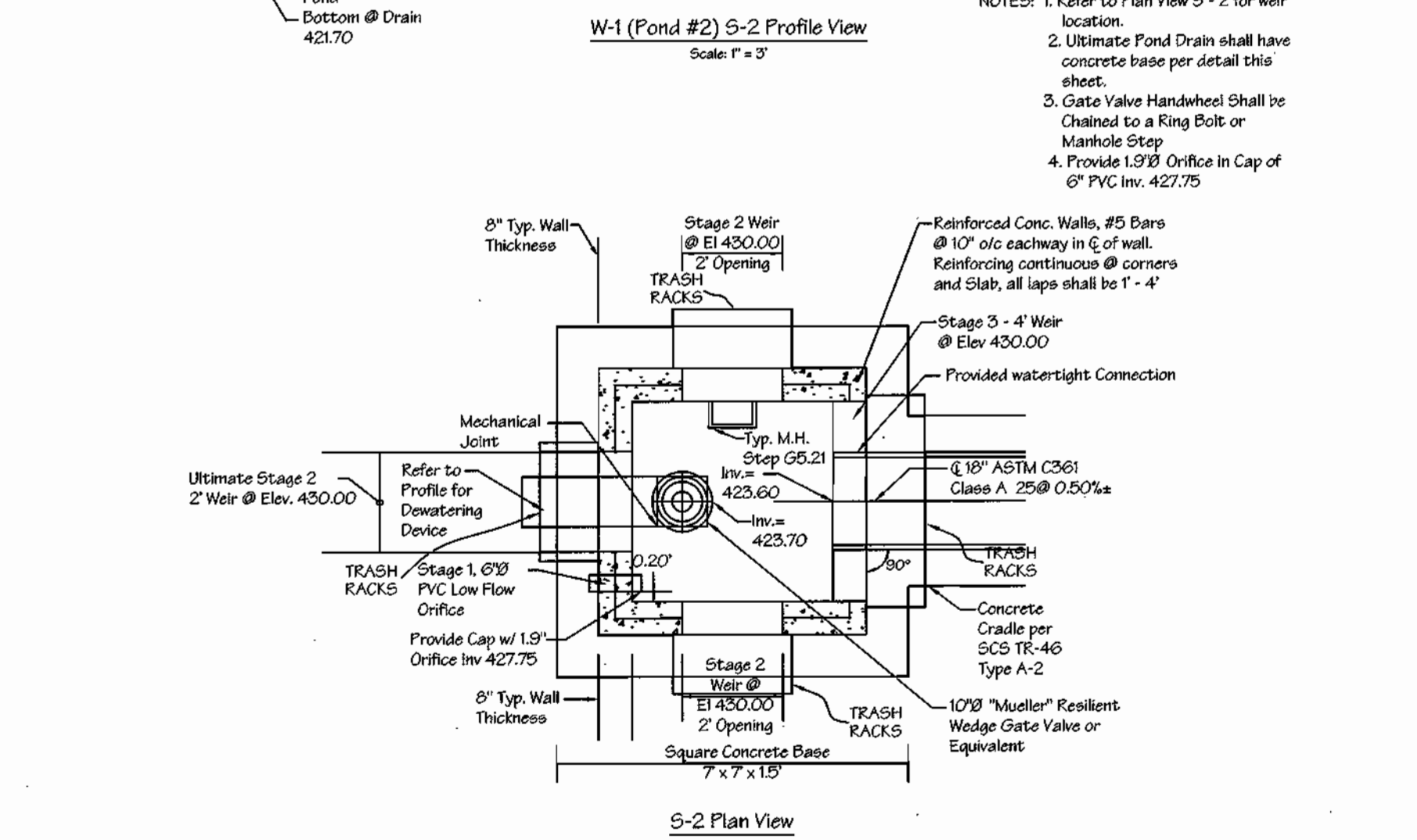
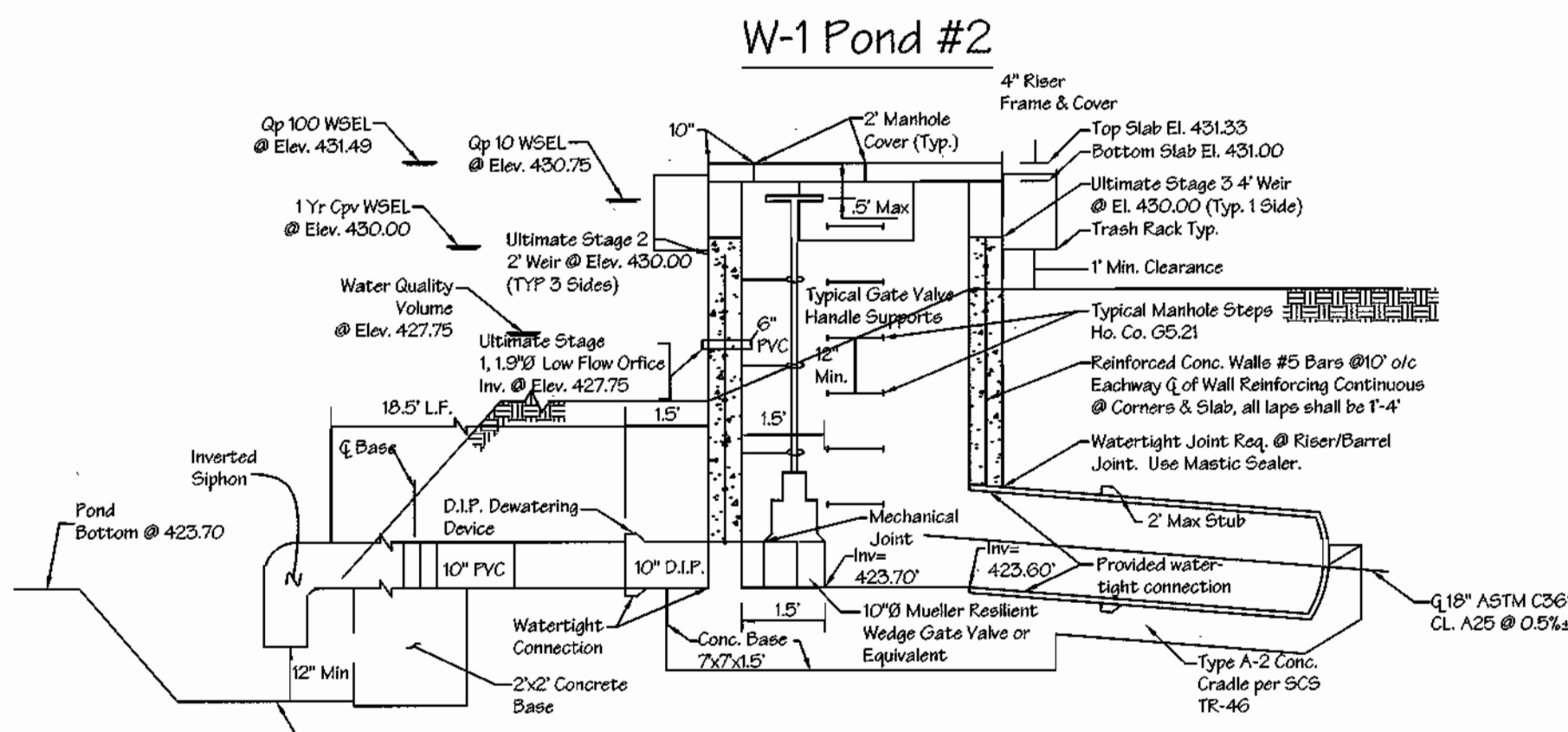
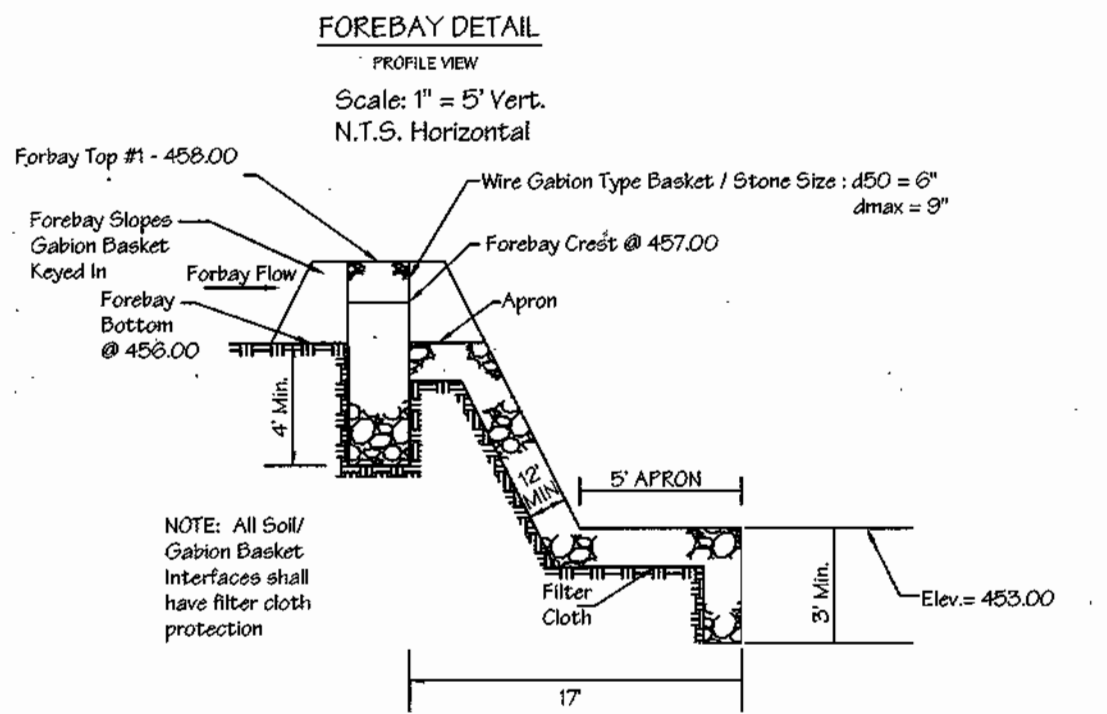
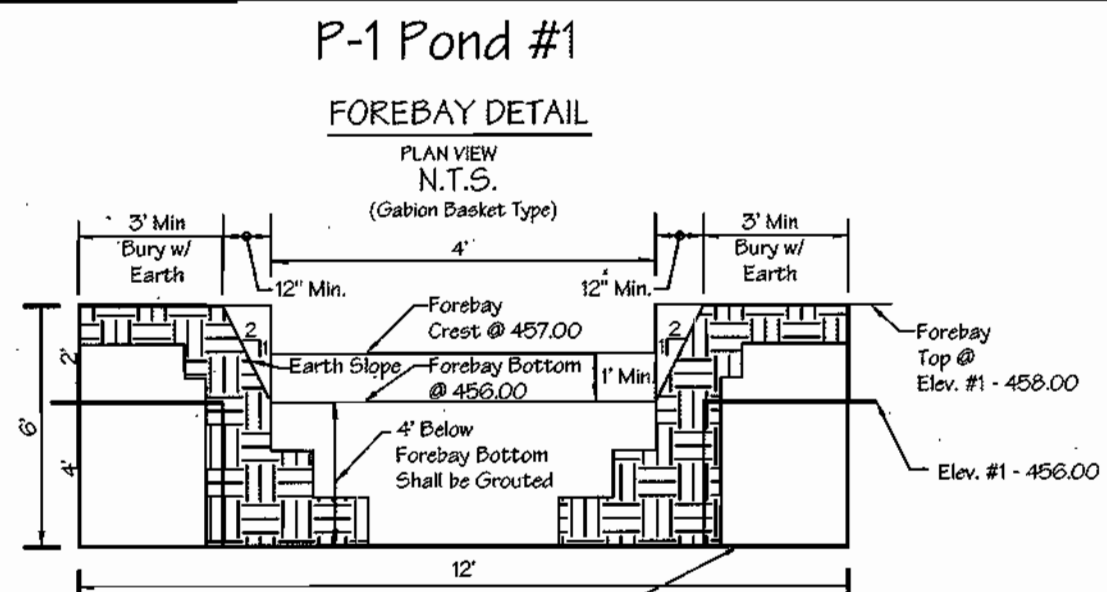
LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

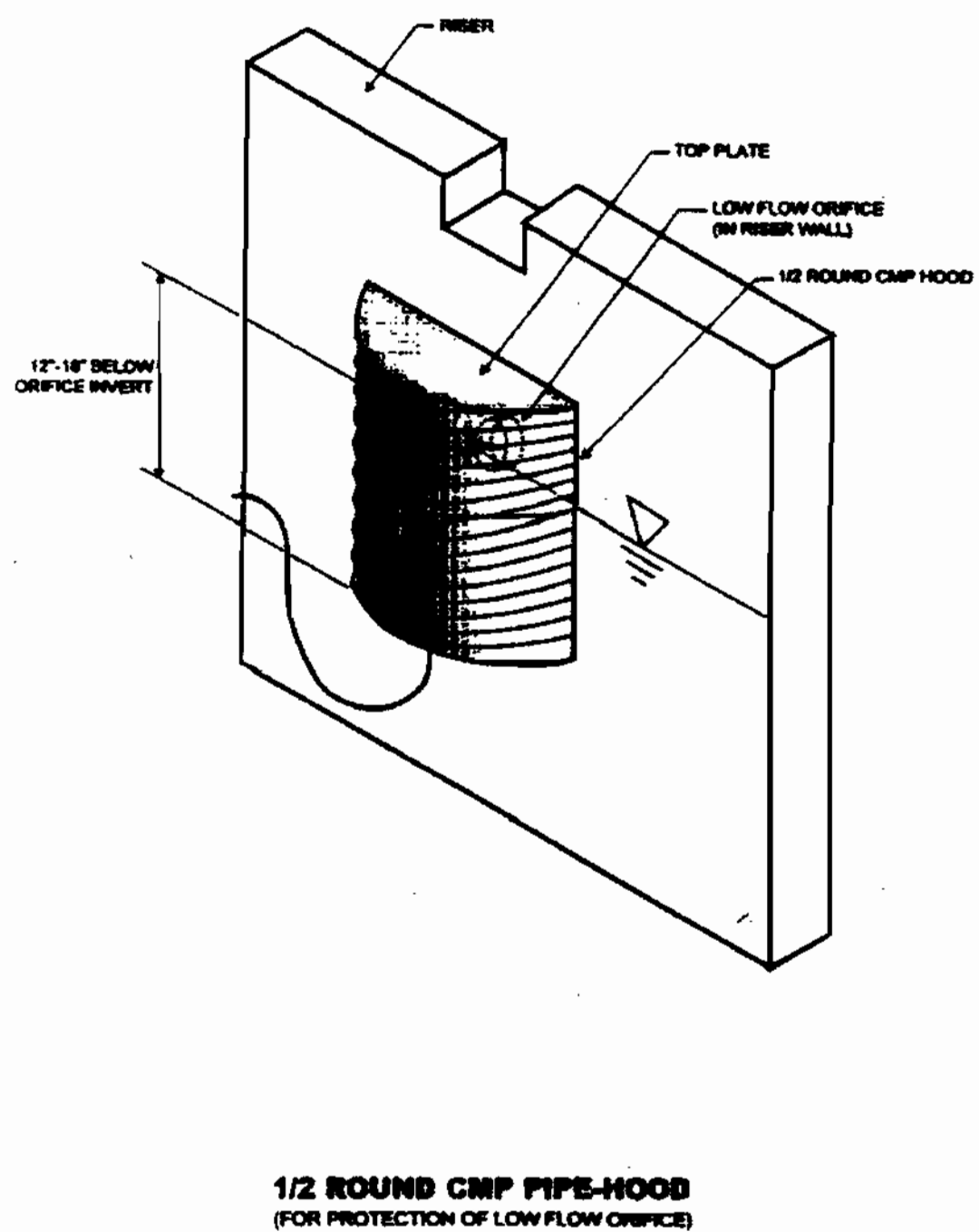
ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F.439
3rd Election District - Howard County, Maryland

PREVIOUS SUBMITTALS: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F.03-96
OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
610 Mt. Lomis King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

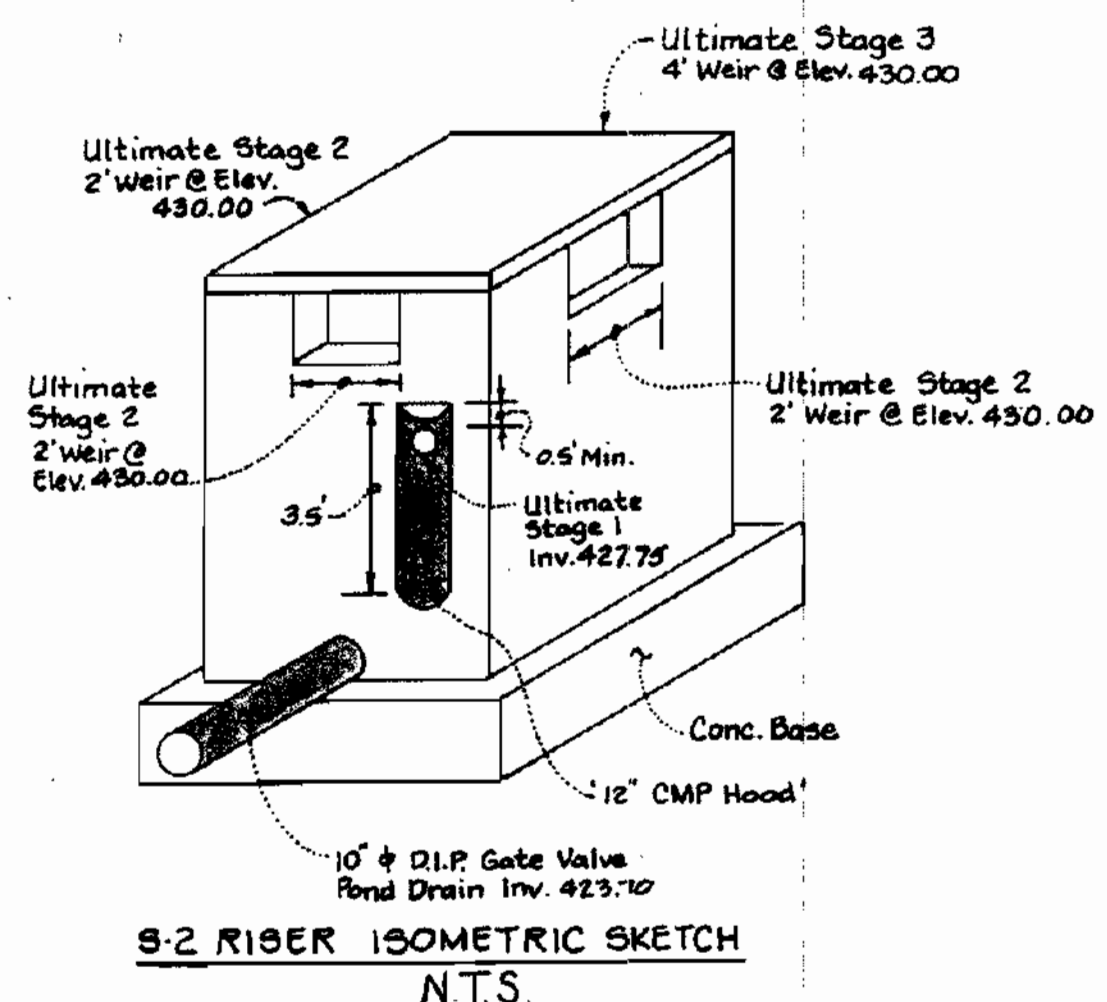
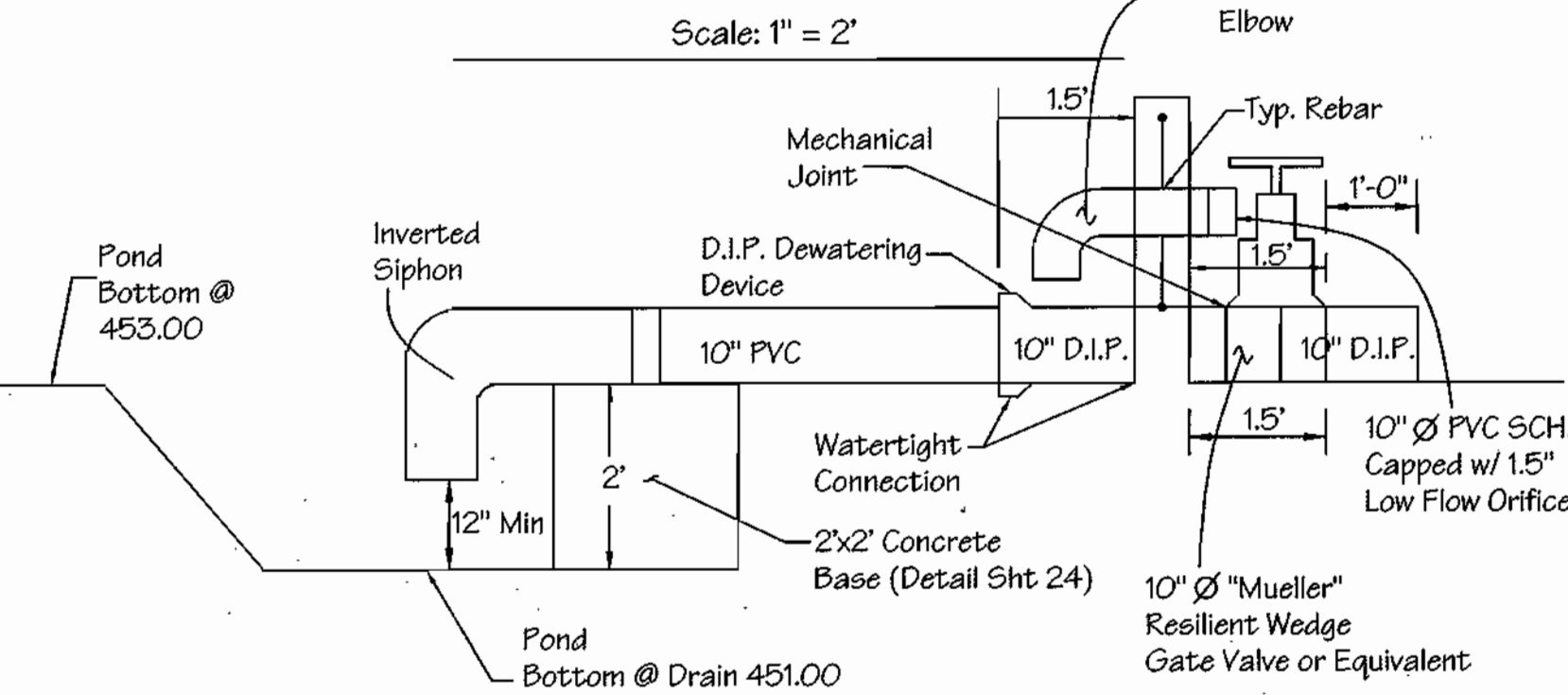
SCALE: As Shown
DRAWING: 23 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05



Detail 7 Half Round CMP Hood



S-1 Ultimate Lowflow Device



SEQUENCE OF CONSTRUCTION

- Phase 1
1. Obtain Grading Permit. - 1 day
 2. Stakeout limits of disturbance common to Phase 1 - Entrance Widening & Bypass Storm Drain system. - 1 day
 3. Install stabilized construction entrance. - 1 day
 4. Install Silt Fence (SF) and / or perimeter controls at the limits of disturbance and where directed by the sediment control inspector. - 1 day
 5. Clear & Grub areas required for Bypass Storm Drain system: ES 1 thru HW-1. - 1 day
 6. Install the Bypass Storm Drain system, ES 1 thru HW-1 and protect inlet with inlet protection. This work should only begin with the approval of the sediment control inspector and with a five (5) day clear (no precipitation) weather forecast from the National Weather Service. - 5 days
 7. Only that portion of storm drain that can be completed on any given day shall be disturbed. - 1 day
 8. Immediate stabilization of disturbed areas shall occur after each day's construction activities. - 1 day
 9. Complete construction activities associated with the entrance widening. Place widening in road sub-base. - 3 days
 10. Only that portion of widening, to include placement to sub-base, which can be completed on any given day shall be disturbed. - 1 day
 11. Upon completion of bypass storm drain system, full stabilization of Phase 1 work and permission has been given by the sediment control inspector, proceed to Phase 2.
- Phase 2
12. Stakeout limits of disturbance common for Phase 2. - 1 day
 13. Dress Phase 1 stabilized construction entrance (SCE) as required by sediment control inspector. SCE shall drain toward the south into the proposed Basin. - 1 day
 14. Install Silt Fence (SF), Super Silt Fence (SSF), and Tree Protection Fence (TPF) at the limits of disturbance, where shown and where directed by the sediment control inspector. HW-1 should not receive any runoff from disturbed areas. - 2 days
 15. The contractor shall inspect and provide maintenance on the sediment and erosion controls shown hereon after each rainfall and on a daily basis.
 16. Clear & Grub areas required for Sediment Basin #1 and Trap #1. - 1 week
 17. With permission of the sediment control inspector, construct Basin #1 per the MD 37B specifications and specifications shown hereon, details on sheet 22 and per the plan view on sheet 15. - 3 weeks
 18. Construct Trap #1 per details & specifications shown hereon. - 2 days
 19. Upon the completion of Sediment Basin #1 & Trap #1, construct bypass swale system along the southern property line of sheets 15 & 16 and stabilize immediately with Erosion Control Matting and permanent seeding mixture & straw mulch or Sod as directed. - 1 day
 20. Construct Bypass Culvert HW-4 to ES-6. Bypass drainage shall empty into Trap #1 & Basin #1 until full stabilization of bypass swale is achieved. - 4 days
 21. With full stabilization of bypass swale and with permission of sediment control inspector, direct runoff into HW-1. - 1 week
 22. Upon full stabilization of "Bypass" swale, install Silt Fence along the north side of the swale to protect the stabilized swale from dirty construction water. - 2 days
 23. Install Bypass Culverts HW-2: ES-4, HW-3: ES-5 and extend pipe from HW-4 to ES-6 as to bypass clean water past Trap #1 as shown hereon. - 1 day
 24. With permission from the sediment control inspector, construct proposed driveway, storm drainage, Water Quality Grass Channel, and open section road grass swale; associated with the driveway construction, sheet 15 & 16. - 5 days
 25. All swales are to be immediately lined with Erosion Control Matting per the detail & specifications shown on sheet 20. - 2 days
 26. Bring church driveway to road sub-base, creating access for the parking lot / Basin #2 portion of the site work. - 1 week
 27. Upon completion of driveway construction, sheets 14 - 16, add topsoil per the specifications shown hereon, stabilize all disturbed areas with permanent seeding mixture and straw mulch and proceed to the construction shown on sheets 17 & 18. - 1 week
 28. Install Silt Fence (SF), Super Silt Fence (SSF), and Tree Protection Fence (TPF) at the limits of disturbance, where shown on sheets 17 & 18 or where directed by the sediment control inspector. - 1 day
 29. Clear & Grub any areas required for grading operations as shown on sheets 17 & 18. - 3 days
 30. With permission of the sediment control inspector, construct Basin #2 per the MD 37B specifications and specifications shown hereon, details on sheet 23 and per the plan view on sheet 18. - 3 weeks
 31. The accumulated sediment from the sediment & erosion control devices shall be placed up grade from the devices in such a manner as not to interfere with construction operations or cause erosion down grade from the devices. - 1 day
 32. The sediment basins and traps shall be dewatered by pumping. The accumulated sediment from the basin / trap shall be placed up grade from the structure in such a manner as not to interfere with construction operations or cause erosion down grade from the structure. - 2 days
 33. The sediment shall be removed from the Sediment Basins and trap when the deaunout elevation has been reached. - 2 days
 34. Once Sediment Basin #2 construction has been completed and permission has been given by the sediment control inspector, construct swales and perimeter earth dikes which will direct runoff into Basin #2. - 4 days
 35. Remove existing dwelling. - 5 days
 36. Abandon existing well and septic system per the required Howard County - Health Department abandonment procedures. - 5 days
 37. Complete grading activities for the proposed "Church" building site. - 5 days
 38. Begin "Church" construction. - 3 months
 39. Complete the site grading & construction activities as required for the installation of the proposed water & sewer lines and septic trenches. - 2 weeks
 40. Install storm drain system for the drainage from parking lot and church facility area. - 1 week
 41. Under the supervision of the Health Department, complete proposed parking lot grading operations. - 2 weeks
 42. Install all curbing. - 5 days
 43. Place parking lot to typical section sub-base level. - 5 days
 44. Install sidewalks and parking lot steps. - 3 days
 45. Install paving. - 3 days
 46. Complete any remaining grading, to include fine grading of parking lot islands with soil, add topsoil per the specifications shown hereon and stabilize all disturbed areas with permanent seeding mixture and straw mulch. - 1 week
 47. Backfill Trap #1 and stabilize disturbance with permanent seeding mixture and straw mulch. - 2 weeks
 48. Upon approval from the Health Department, connect the church facilities to the proposed septic system. - 2 weeks
 49. After all upgrade areas from the sediment basins have been stabilized and permission has been given by Sediment Control Inspector, flush the storm drain systems into the sediment basins. - 1 day
 50. After permission has been given by Sediment Control Inspector, complete conversion of Basin #1 & Basin #2 to POND #1 & POND #2 per the details on sheet 24. The temporary riser components are to remain in place during the grading of the pond body. Full stabilization must be achieved prior to the removal of the temporary riser components. - 2 weeks
 51. Convert sediment basins by removing vertical draw-down devices, installing permanent pond drain, installing CMP Hood, removing temporary weir blocking devices and re-installing the Trash Racks as detailed hereon. - 3 days - 2
 52. After permission has been given by Sediment Control Inspector, remove remaining silt fence & super silt fence, and stabilize those disturbed areas with permanent seeding mixture and straw mulch. - 1 week

Maintenance Notes

- 1) Private maintenance responsibility for facilities include the structural maintenance of the man-made elements of the facility (e.g. pipes, headwalls, riprap, dams and risers). Private maintenance responsibilities shall also include removal of accumulated silt.
- 2) Maintenance responsibilities will include landscape maintenance and trash removal. Landscape maintenance shall include mowing of all areas in open space including side slopes, dam top, embankment and spillways, except that the bottom of the facility shall not be mowed to less than 4 inches in height. Woody vegetation shall not be allowed to grow on the dam or within 20 feet of the top of cut slopes or toe of embankment (See Section 5.2.A.G.).

Maintenance Requirements

- a. Removal of all when accumulation exceeds six (6) inches in basins without forebays. In basins with forebays, removal of silt shall occur when the accumulation exceeds four (4) inches in the forebay.
- b. Removal of accumulated paper, trash and debris as necessary.
- c. Vegetation growing on the embankment top and faces is not allowed to exceed 18 inches in height at any time.
- d. Annual inspection and repair of the structure.
- e. Corrective maintenance is required any time an extended detention basin does not drain the equivalent of the Water Quality Volume within 60 hours (i.e., no standing water is allowed).
- f. Corrective maintenance is required any time the forebay does not drain down completely within 60 hours (i.e., no standing water is allowed).

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER PONDS (P-1 THROUGH P-5)

Routine Maintenance:

1. Facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the pond is functioning properly.
2. Top and side slopes of the embankment shall be mowed a minimum of two (2) times per year, once in June and once in September. Other side slopes and maintenance access shall be mowed as needed.
3. Debris and litter shall be removed during regular mowing operations as needed.
4. Visible signs of erosion in the pond as well as the rip-rap or gabion outlet area shall be repaired as soon as it is noticed.

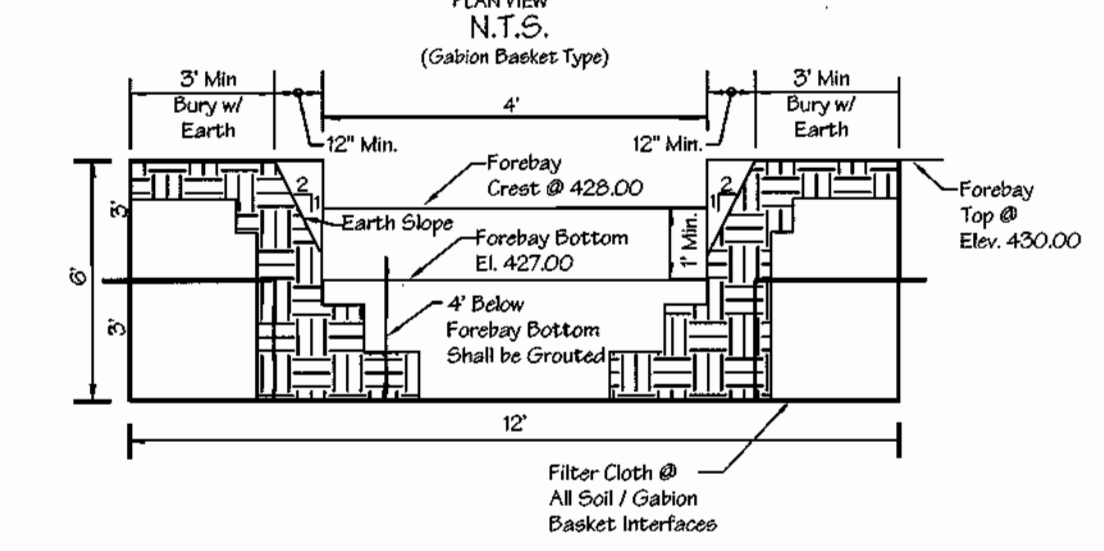
Non-Routine Maintenance:

1. Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components shall be inspected during routine maintenance operations.
2. Sediment shall be removed from the pond, and forebay, no later than the capacity of the pond, or forebay, is half full of sediment, or when deemed necessary for aesthetic reasons, upon approval from the Department of Public Works.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER WETLANDS (W-1 THROUGH W-4)

- a. The stormwater wetland facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.
- b. The top and side slopes of the embankment shall be mowed a minimum of once per year, when vegetation reaches 18" in height or as needed.
- c. Debris and litter shall be removed during regular mowing operations and as needed.
- d. Visible signs of erosion in the facility shall be repaired as soon as it is noticed.
- e. Remove silt when it exceeds four (4) inches deep in the forebay.
- f. If a minimum coverage of 50% is not achieved in the planted wetland zones after the second growing season, reforestation planting shall be provided.

POND #2 FOREBAY DETAIL



Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH		Sect./Area	Parcel No. 203
Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd
Water Code JO2	Sewer Code N/A		Census Tract 6030

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/14/03 DATE

[Signature] 7/22/02 DATE

[Signature] 7/14/03 DATE

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

[Signature] 7/8/03 DATE

[Signature] 7/4/03 DATE

ENGINEER'S CERTIFICATE

I certify that this plan represents a practical and workable design for the sediment control representative 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 with an "as-built" plan of the project within 30 days of completion. I also authorize periodic on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03 DATE

DEVELOPER'S CERTIFICATE

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. I have notified the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic on-site inspections by Howard Soil Conservation District.

[Signature] 6/25/03 DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7-17-03 DATE

REVISIONS

No.	Date	Description

DESIGNED: Ultimate Pond #1 & #2 Conversion Details

E.D.S. ST. JOHN THE EVANGELIST BAPTIST CHURCH

DRAWN: Phase One & Two

J.L.M. L. 4195/F.439

J.D.R. Tax Map No. 16 - Grid No. 16 - Parcel 203

CHECKED: 3rd Election District - Howard County, Maryland

B.D.B. Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WF 03-06, F 03-96

DATE: 6/20/03

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH

c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD, Route 108
Columbia, Maryland 21045

LDE, INC.

9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-5424 (410) 715-9540 (Fax)

SCALE: As Shown

DRAWINGS: 24 of 33

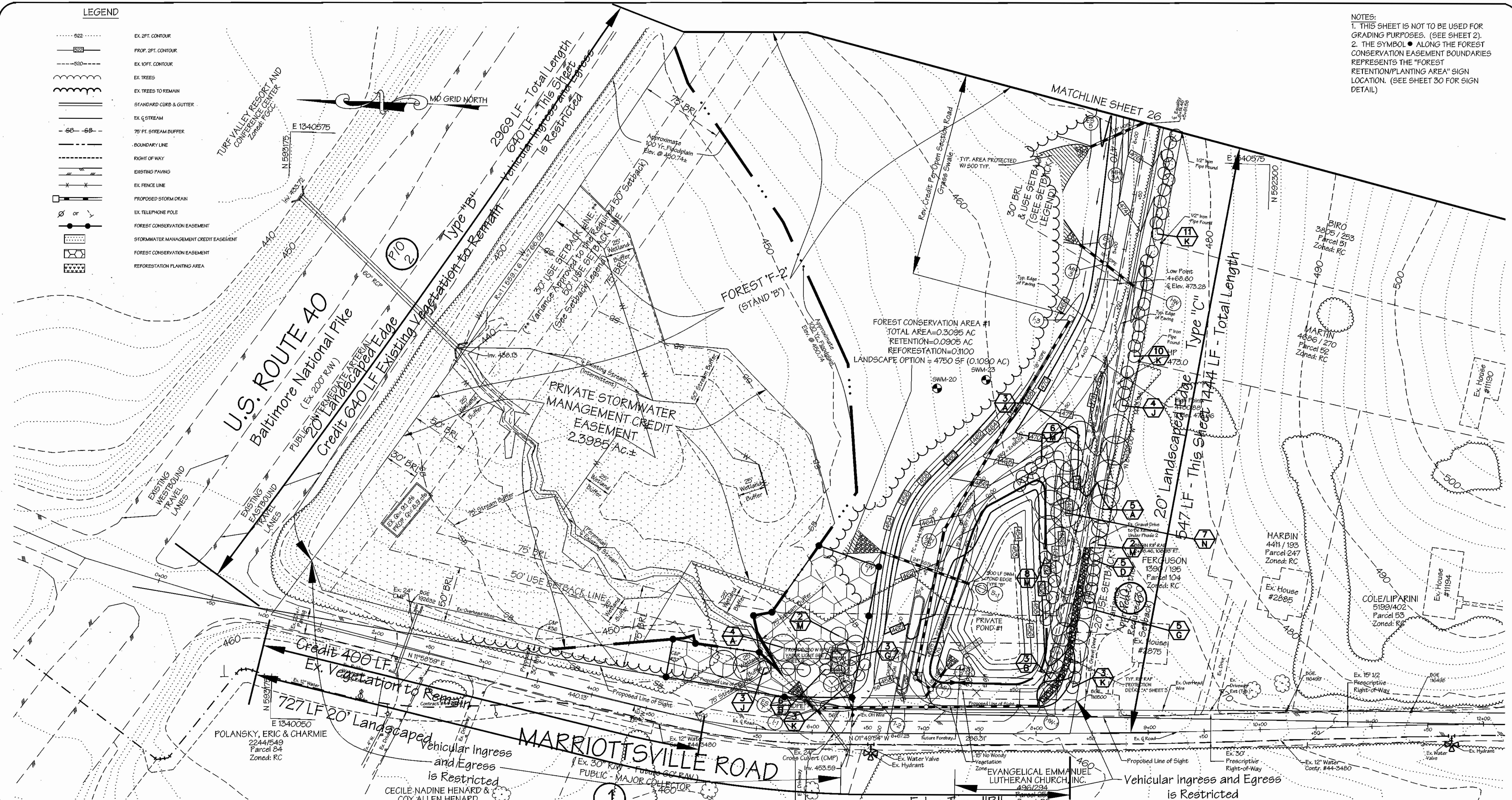
JOB NO.: 00-003

FILE NO.: SDP 02-05

NOTES:
 1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 2).
 2. THE SYMBOL ● ALONG THE FOREST CONSERVATION EASEMENT BOUNDARIES REPRESENTS THE "FOREST RETENTION/PLANTING AREA" SIGN LOCATION. (SEE SHEET 30 FOR SIGN DETAIL)

LEGEND

- 022 --- EX. 2FT. CONTOUR
- 500 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- EX. TREES
- EX. TREES TO REMAIN
- STANDARD CURB & GUTTER
- EX. STREAM
- 75' FT. STREAM BUFFER
- BOUNDARY LINE
- RIGHT OF WAY
- EXISTING PAVING
- EX. FENCE LINE
- PROPOSED STORM DRAIN
- EX. TELEPHONE POLE
- FOREST CONSERVATION EASEMENT
- STORMWATER MANAGEMENT CREDIT EASEMENT
- FOREST CONSERVATION EASEMENT
- REFORESTATION PLANTING AREA



CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	38° 11'50"	121.76'	64.46'	S57° 42'01"E - 118.45'
Driveway - 2+66.54 - 4+71.56	250.00'	22° 58'06"	205.02'	108.67'	S57° 56'22"E - 199.33'

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No.	Zone	Tax Map No.	Election District	Census Tract
16	RC-DEO	16	3rd	6030

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Debra M. Smith 2/23/03
 HOWARD COUNTY HEALTH OFFICER 5RK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Hanrahan 7/11/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hanrahan 7/23/03
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Mark A. Taylor 7/24/03
 DIRECTOR DATE

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

HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that this plan for stormwater management and sediment control represents a practical and workable design based on my knowledge of the site conditions. The plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not been engaged by the Howard Soil Conservation District as a registered professional engineer to supervise the construction of the project. I will engage a registered professional engineer to supervise the construction of the project and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic inspections by Howard Soil Conservation District.

Paul J. Taylor 6/25/03
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

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

Paul J. Taylor 6/25/03
 SIGNATURE OF DEVELOPER DATE

NOTE: AREA WITHIN THE LINE OF SIGHT AND STREAM BUFFER SHALL BE CLEARED SELECTIVELY OF ALL GROUND VEGETATION WHICH OBSTRUCTS THE DRIVERS VISION. ALL TREES WITHIN THIS AREA SHALL BE LIMBED UP TO A HEIGHT OF 5' AND ALL WORK MUST BE COMPLETED BY HAND.

NO MECHANICAL MACHINERY OR GRADE DISTURBANCE SHALL BE PERMITTED WITHIN THE STREAM BUFFER.

REVISIONS

No.	Date	Description

LDE, INC.
 9250 Rumsy Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

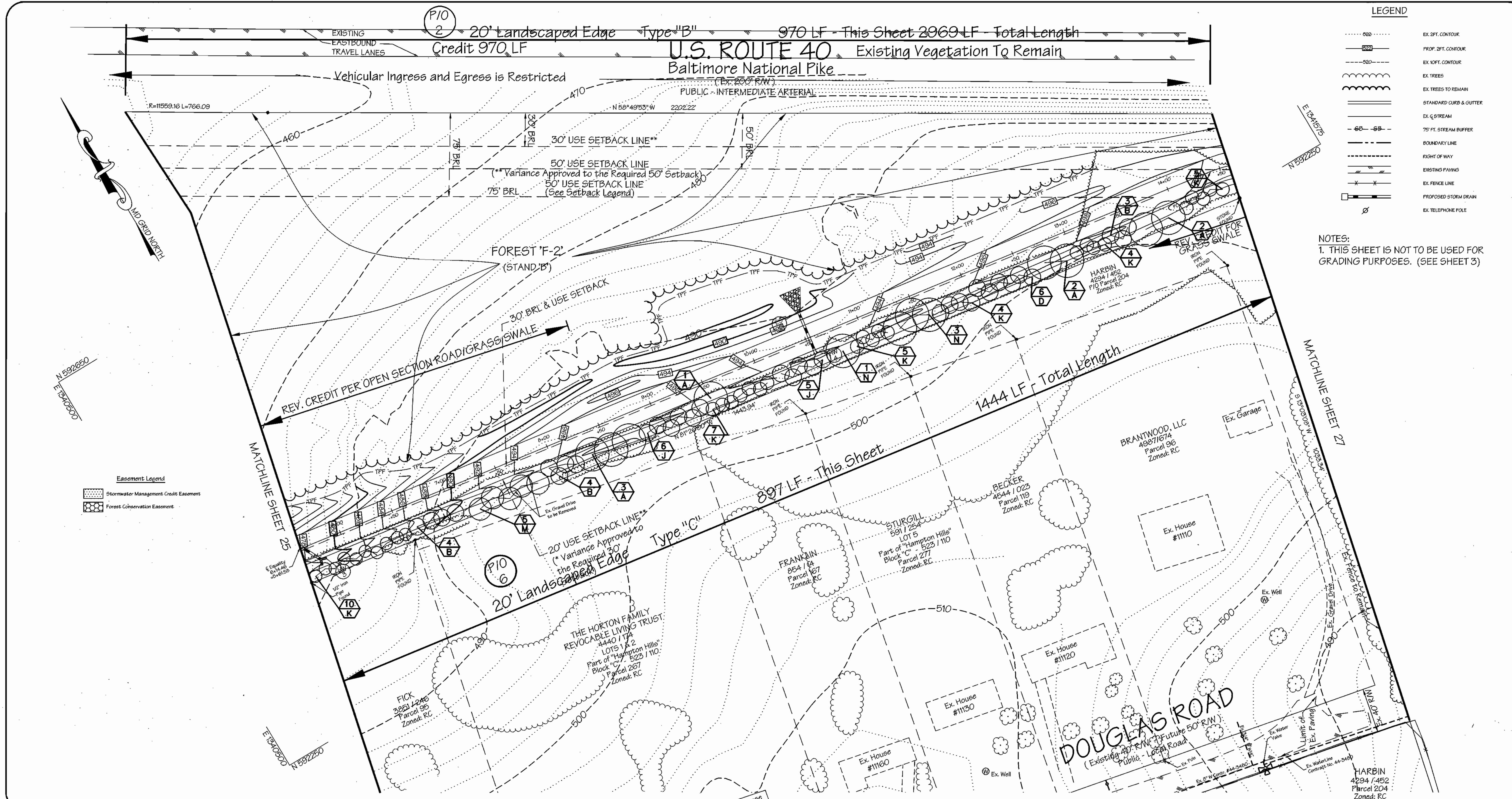
DESIGNED: W.M.C.R.P.
 DRAWN: W.M.C.R.P.
 CHECKED: B.D.B.
 DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

PREVIOUS SUBMITTALS: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-98

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 25 OF 32
 JOB NO.: 00-003
 FILE NO.: SDP 02-05



LEGEND

---	EX. 2FT. CONTOUR
---	PROP. 2FT. CONTOUR
---	EX. 10FT. CONTOUR
---	EX. 10FT. CONTOUR
---	EX. TREES
---	EX. TREES TO REMAIN
---	STANDARD CURB & GUTTER
---	EX. GUTTER
---	75' FT. STREAM BUFFER
---	BOUNDARY LINE
---	RIGHT OF WAY
---	EXISTING PAVING
---	EX. FENCE LINE
---	PROPOSED STORM DRAIN
---	EX. TELEPHONE POLE

NOTES:
 1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 3)

Easement Legend

---	Stormwater Management Credit Easement
---	Forest Conservation Easement

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
 [Signature] 7-17-03
 HOWARD COUNTY HEALTH OFFICER, S.R.K.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 7/16/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
 DIRECTOR

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

150% NATURAL RESOURCE CONSERVATION SERVICE [Signature] DATE

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

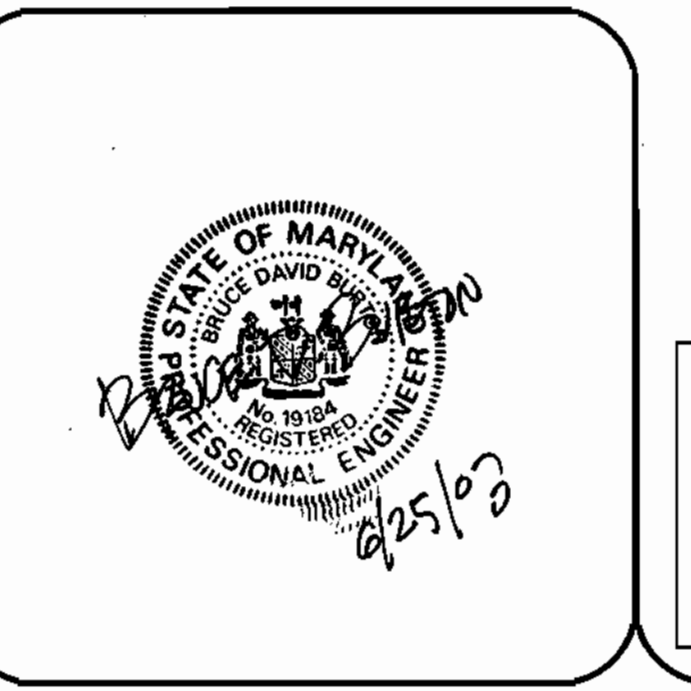
HOWARD SOIL CONSERVATION DISTRICT [Signature] DATE

ENGINEER'S CERTIFICATE
 I certify that this plan for [Project Name] and sediment control represents a practical and workable plan for the [Project Name] 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 the project and have engaged a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize public on-site inspections by the Howard Soil Conservation District.

[Signature] 6/25/03
 SIGNATURE OF ENGINEER

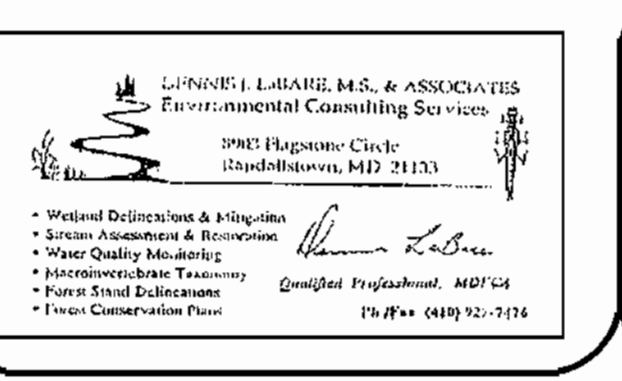
DEVELOPER'S CERTIFICATE
 I/we certify that all development and/or construction will be done according to these plans, and that any responsible persons involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion to be beginning the project. I shall engage a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan within 30 days of completion. I also authorize public on-site inspections by the Howard Soil Conservation District.

[Signature] 6/25/03
 SIGNATURE OF DEVELOPER



CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 14+41.19 - 15+48.29	108.00'	56°49'06"	107.10'	58.42'	S53°01'27"E - 102.77'



REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH		Sect/Area	Parcel No. 203
Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd
Water Code J02		Census Tract 6030	
Power Code		N/A	

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. W.M.C.R.P.
 DRAWN: W.M.C.R.P. L.D.E.
 CHECKED: B.D.B.
 DATE: 6/20/03

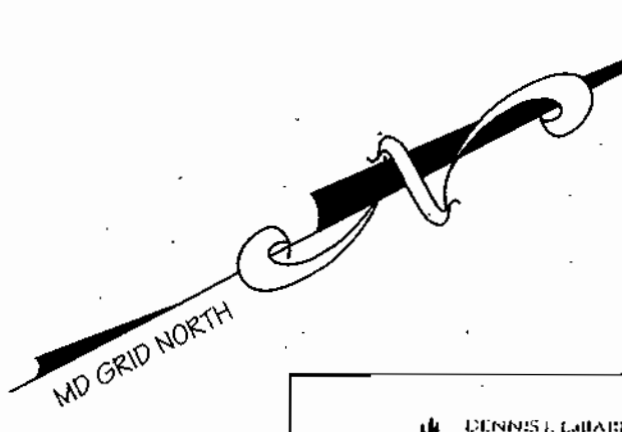
LANDSCAPE & FOREST CONSERVATION PLAN
ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

PREVIOUS SUBMITTALS: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lennie King Jr.
 8910 Old Annapolis Road / MD. Route 106
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 26 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05

File Path: C:\Users\jking\My Documents\Projects\SDP 02-05\SDP 02-05.dwg, L:\MDC2 (26), 6/20/2003 8:26:34 AM



LENNIS J. LABATE, P.E., & ASSOCIATES
Environmental Consulting Services
3941 Huguenot Circle
Hanover, MD 21076
Phone: 410-321-1414
Fax: 410-321-1415

NOTES:
1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 4).
2. THE SYMBOL ● ALONG THE FOREST CONSERVATION EASEMENT BOUNDARIES REPRESENTS THE "FOREST RETENTION/PLANTING AREA" SIGN LOCATION. (SEE SHEET 30 FOR SIGN DETAIL)

HARBIN
4294 / 452
Parcel 204
Zoned: RC

BRANTWOOD LLC
49871 674
Parcel 96
Zoned: RC

HARBIN
4294 / 452
Parcel 204
Zoned: RC

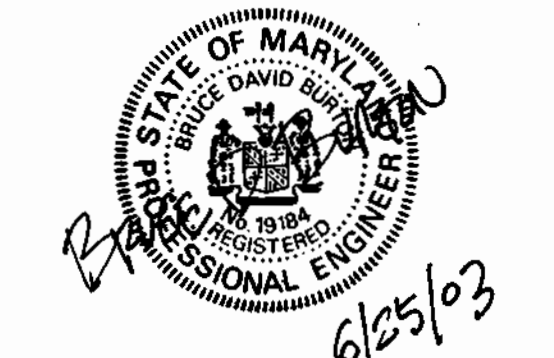
LEGEND

--- 20' ---	EX. 2FT. CONTOUR
--- 10' ---	PROP. 2FT. CONTOUR
--- 5' ---	EX. 10FT. CONTOUR
○	EX. TREES
○	EX. TREES TO REMAIN
—	STANDARD CURB & GUTTER
—	EX. STREAM
—	75' FT. STREAM BUFFER
—	BOUNDARY LINE
—	RIGHT OF WAY
—	EXISTING PAVING
—	EX. FENCE LINE
—	PROPOSED STORM DRAIN
—	EX. TELEPHONE POLE
—	COMB. CURB & GUTTER
—	PROPOSED EDGE OF PAVING
—	FOREST CONSERVATION EASEMENT
—	STORMWATER MANAGEMENT CREDIT EASEMENT
—	FOREST CONSERVATION EASEMENT
—	REFORESTATION PLANTING AREA

REQUIRED PLANTINGS ARE DESIGNATED WITH SINGLE LETTERS.
SUPPLEMENTAL PLANTINGS ARE DESIGNATED WITH DOUBLE LETTERS.

U.S. ROUTE 40
Baltimore National Pike
(EX. 200' R/W)
PUBLIC - INTERMEDIATE AIRTRIAL

P/O FOREST CONSERVATION EASEMENT AREA #5
TOTAL AREA: 1.1653 Ac.± (1.0 THIS PORTION)
RETENTION: 0.4997 Ac.± (0.4 THIS PORTION)
REFORESTATION: 0.5000 Ac.±
LANDSCAPE OPTION 7213 SF/0.1656 AC (5300 SF THIS PORTION)



ENGINEER'S CERTIFICATE
I certify that this plan for the proposed stormwater management and sediment control represents a practical and workable plan for the proposed site. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the Howard Soil Conservation District of the proposed project and the Howard Soil Conservation District has approved this plan for on-site implementation.
6/25/03
SIGNATURE OF ENGINEER: [Signature]

DEVELOPER'S CERTIFICATE
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 during 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 Howard Soil Conservation District.
6/25/03
SIGNATURE OF DEVELOPER: [Signature]

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area:	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Water Code: JO2	Election District: 3rd	Conserv. Tract: 6030

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

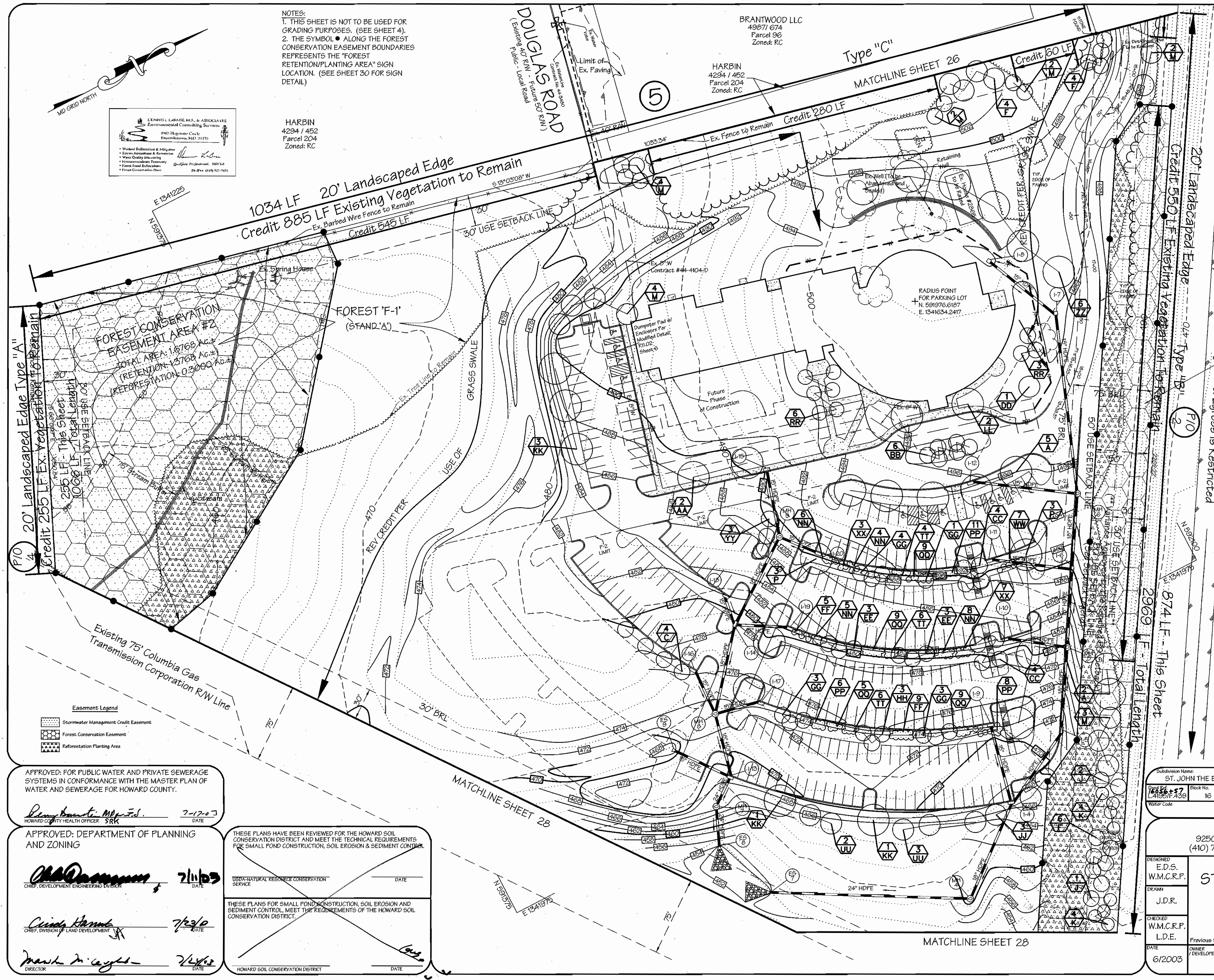
DESIGNED: E.D.S. W.M.C.R.P.
DRAWN: J.D.R.
CHECKED: W.M.C.R.P.
DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96

OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lomie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 27 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
7-17-03
HOWARD COUNTY HEALTH OFFICER: SRK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

7/24/03
DIRECTOR

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

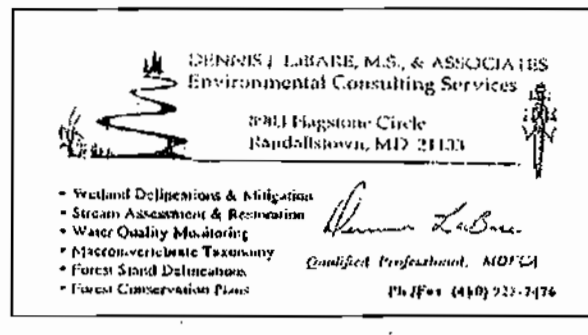
HOWARD SOIL CONSERVATION DISTRICT

LEGEND

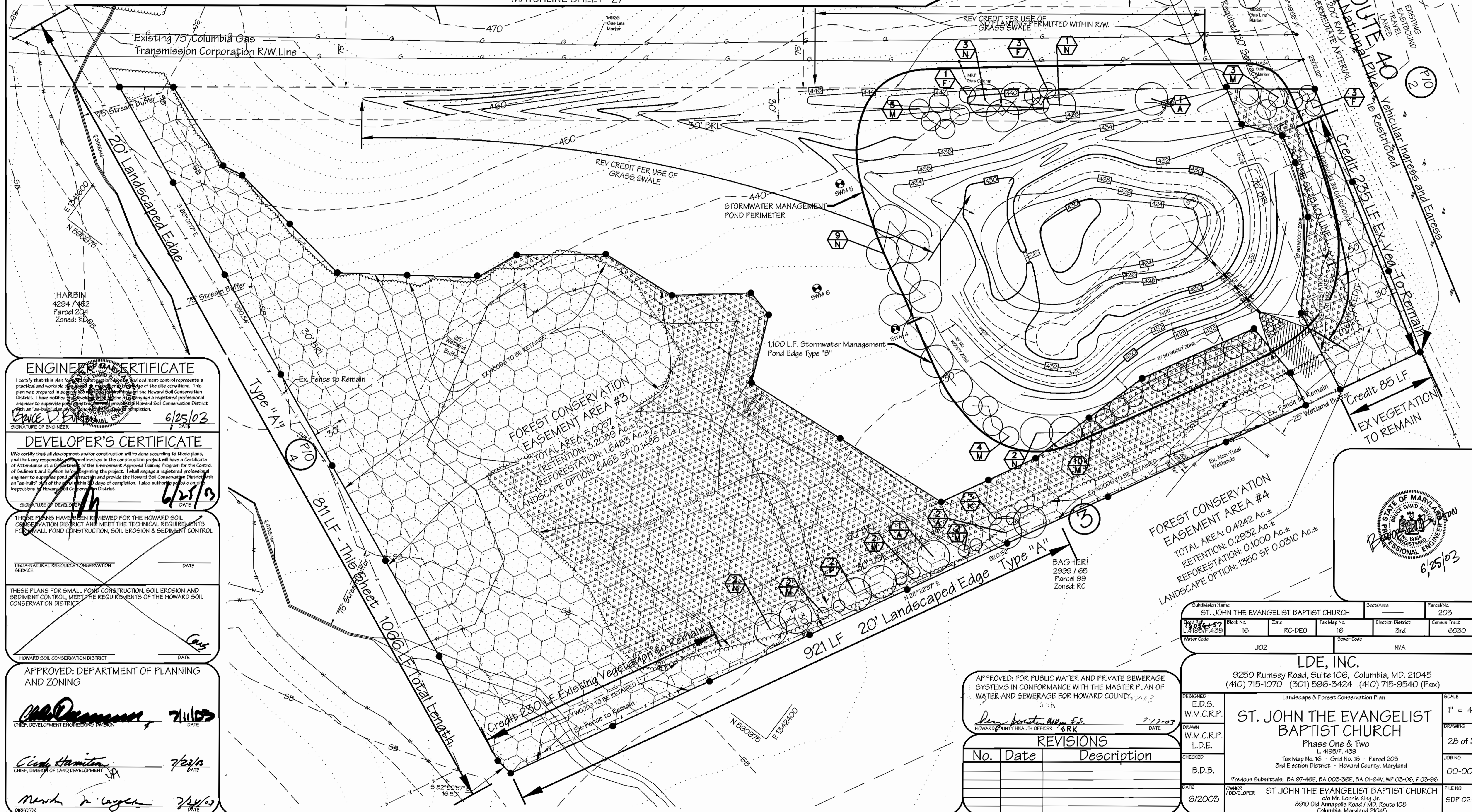
- 0.2 --- EX. 2FT. CONTOUR
- 0.2 --- PROP. 2FT. CONTOUR
- 0.2 --- EX. 10FT. CONTOUR
- 0.2 --- EX. TREES
- 0.2 --- EX. TREES TO REMAIN
- 0.2 --- STANDARD CURB & GUTTER
- 0.2 --- EX. STREAM
- 0.2 --- FOREST CONSERVATION EASEMENT
- 0.2 --- STORMWATER MANAGEMENT CREDIT EASEMENT
- 0.2 --- 75' FT. STREAM BUFFER
- 0.2 --- BOUNDARY LINE
- 0.2 --- RIGHT OF WAY
- 0.2 --- EXISTING PAVING
- 0.2 --- EX. FENCE LINE
- 0.2 --- PROPOSED STORM DRAIN
- 0.2 --- EX. TELEPHONE POLE
- 0.2 --- SOIL BORING
- 0.2 --- FOREST CONSERVATION EASEMENT
- 0.2 --- REFORESTATION PLANTING

NOTES:
 1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 5).
 2. THE SYMBOL ● ALONG THE FOREST CONSERVATION EASEMENT BOUNDARIES REPRESENTS THE "FOREST RETENTION/PLANTING AREA" SIGN LOCATION. (SEE SHEET 30 FOR SIGN DETAIL)

- Easement Legend**
- Stormwater Management Credit Easement
 - Forest Conservation Easement



P10 FOREST CONSERVATION EASEMENT AREA #5
 TOTAL AREA: 1.1653 AC.± (0.2 AC THIS PORTION)
 RETENTION: 0.4997 AC.± (0 THIS PORTION)
 REFORESTATION: 7213 SF (0.1656 AC.± (0.1913 SF THIS PORTION))
 LANDSCAPE OPTION: MATCHLINE SHEET 27



ENGINEER'S CERTIFICATE
 I certify that this plan for the construction of the stormwater management pond and sediment control represents a practical and workable plan based on a site visit and review 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 the construction of the stormwater management pond and sediment control. 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 professional inspections by Howard Soil Conservation District.
 Dawn V. Bagnari
 6/25/03

DEVELOPER'S CERTIFICATE
 I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as a participant 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 professional inspections by Howard Soil Conservation District.
 LDE, Inc.
 6/25/03

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Howard County Health Officer

REVISIONS

No.	Date	Description

FOREST CONSERVATION EASEMENT AREA #4
 TOTAL AREA: 0.4242 AC.±
 RETENTION: 0.2932 AC.±
 REFORESTATION: 0.1000 AC.±
 LANDSCAPE OPTION: 1350 SF (0.0310 AC.±)

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Block No: 16	Zone: RC-DEO	Tax Map No: 16	Election District: 3rd	Census Tract: 6030
Parcel No: 203	Water Code: J02	Sewer Code: N/A			

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045



GENERAL NOTES

- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code, Landscape Manual and Forest Conservation Manual.
- The Owner/Developer is responsible for the planting of all plants material required to meet the standards established by the Howard County Landscape Manual.
- Financial Surety for the required landscaping has been posted as part of the Department of Public Works Developer's Agreement in the amount of \$54,750.

TREE PLANTING NOTES

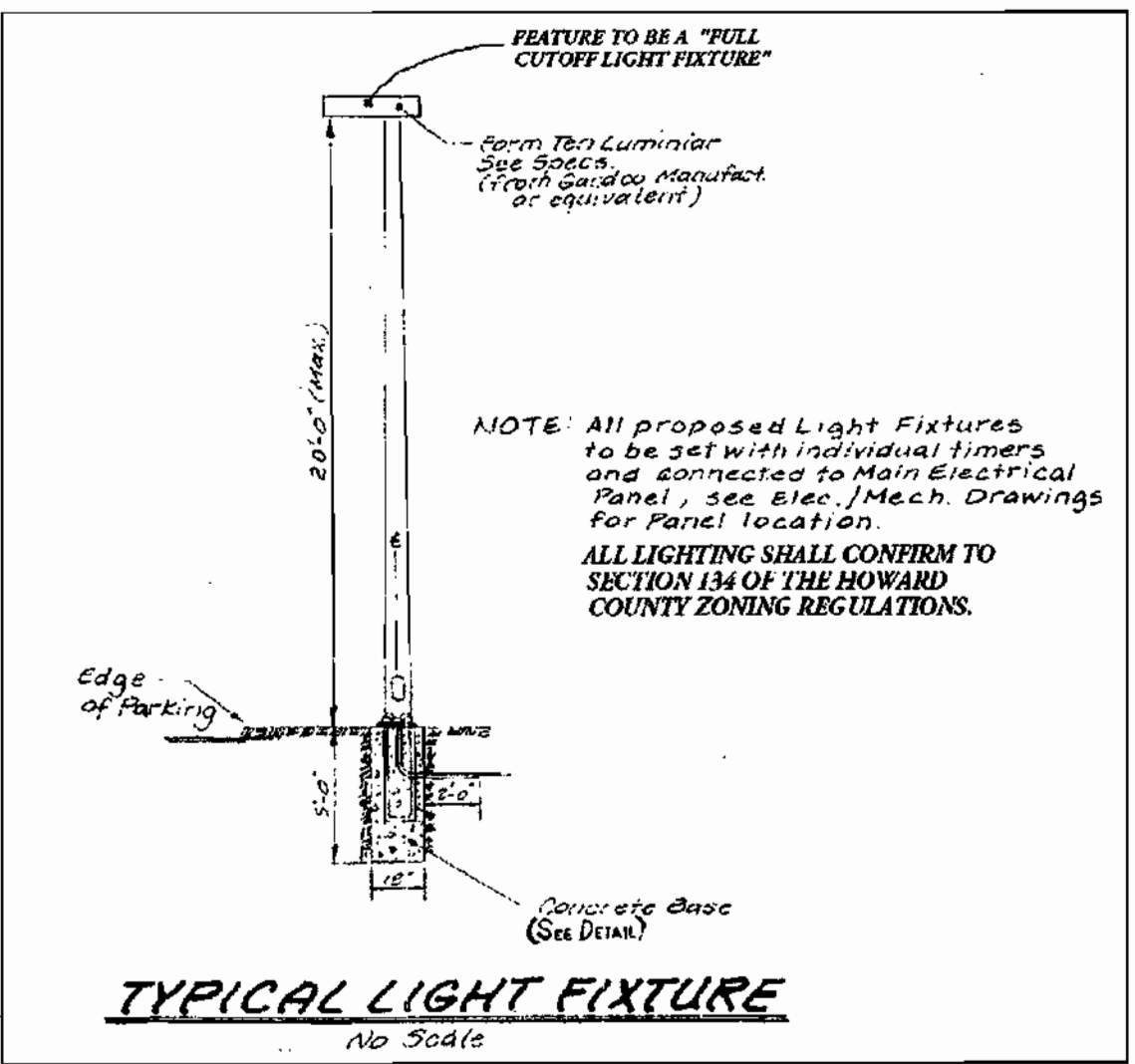
- Notify "Miss Utility" 72 hours prior to installation of all plant material.
- Plant installation must conform to the minimum standards cited in the latest edition of Landscape Specification Guidelines, published by the Landscape Contractors Association.
- Plants to be located in the field by the owner or owner's representative. Notify owner 72 hours in advance of planting. A Certification of Landscape Installation is required as per the Howard County Landscape Ordinance.
- The number, size, location of plants shall not be changed without the approval of the Landscape Architect. Substitutions must be included in the recommended plant list in the Howard County Landscape Ordinance.
- Trees may not be planted within 5 feet of drain inlets, 5 feet of an open space access strip and 10 feet of a driveway.
- Balled and burlapped plant material shall not be accepted if ball is cracked or broken before or during planting. Protect all plants from drying by either sun or wind.
- Tree pits shall be backfilled with 50% topsoil, 25% peat 25% sand with one pound of 10-10-10 fertilizer per pit.
- Top soil shall be sandy loam soil free from noxious weeds or grasses, roots, clay clumps, stones, sticks, etc. Peat moss shall be commercial with pH 4.5 to 5.5, free of woody material or harmful minerals.
- All plants shall be watered at planting with weekly watering thereafter for the first 60 days. Watering shall continue bi-monthly or as necessary to maintain plants in a healthy condition during the guarantee period.
- Maintain the site in an orderly manner. Streets and sidewalks shall be swept clean. All rejected or dead materials shall be immediately removed from the site.
- Plant material to be alive and healthy at the time of the guarantee period (one year), as specified in the Howard County Landscape Ordinance.
- Maintenance shall begin immediately after planting and continue to the end of guaranteed period.
- Maintenance consist of pruning, watering weeding, re-mulching, resetting plants to proper grades as needed and repairing guys and stakes as needed.

**SCHEDULE D
STORMWATER MANAGEMENT AREA LANDSCAPING
(Fond #1)**

Linear Feet of Perimeter	500 LF
Number of Plants Required Shade Trees 1:50 Evergreen Trees 1:40	10 Shade 13 Evergreen
Credit for Existing Vegetation (Yes, No and %)	NO
Credit for Other Landscaping * (Yes, No and %)	NO
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	10 Shade 14 Evergreen

**SCHEDULE D
STORMWATER MANAGEMENT AREA LANDSCAPING
(Fond #2)**

Linear Feet of Perimeter	1,100 LF
Number of Plants Required Shade Trees 1:50 Evergreen Trees 1:40	22 Shade 28 Evergreen
Credit for Existing Vegetation (Yes, No and %)	Yes, 200 LF
Credit for Other Landscaping (Yes, No and %)	No
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	16 Shade 22 Evergreen 4 Small



ST JOHN BAPTIST SUPPLEMENTAL PLANT LIST

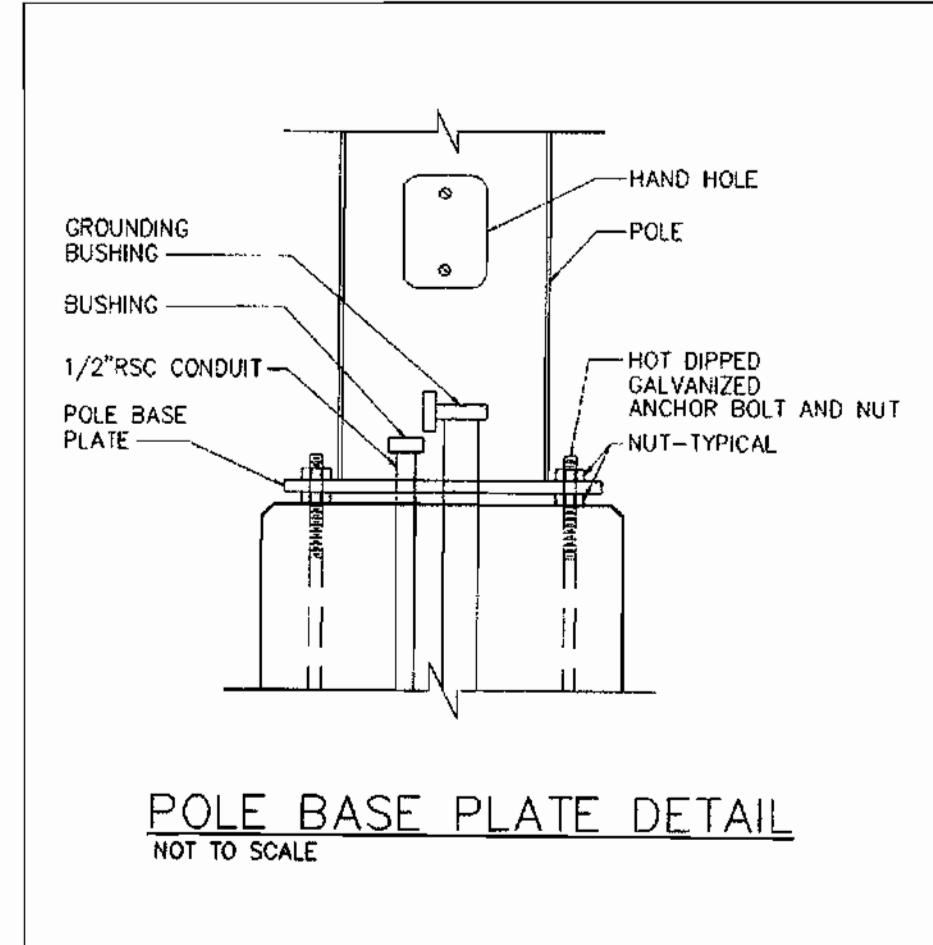
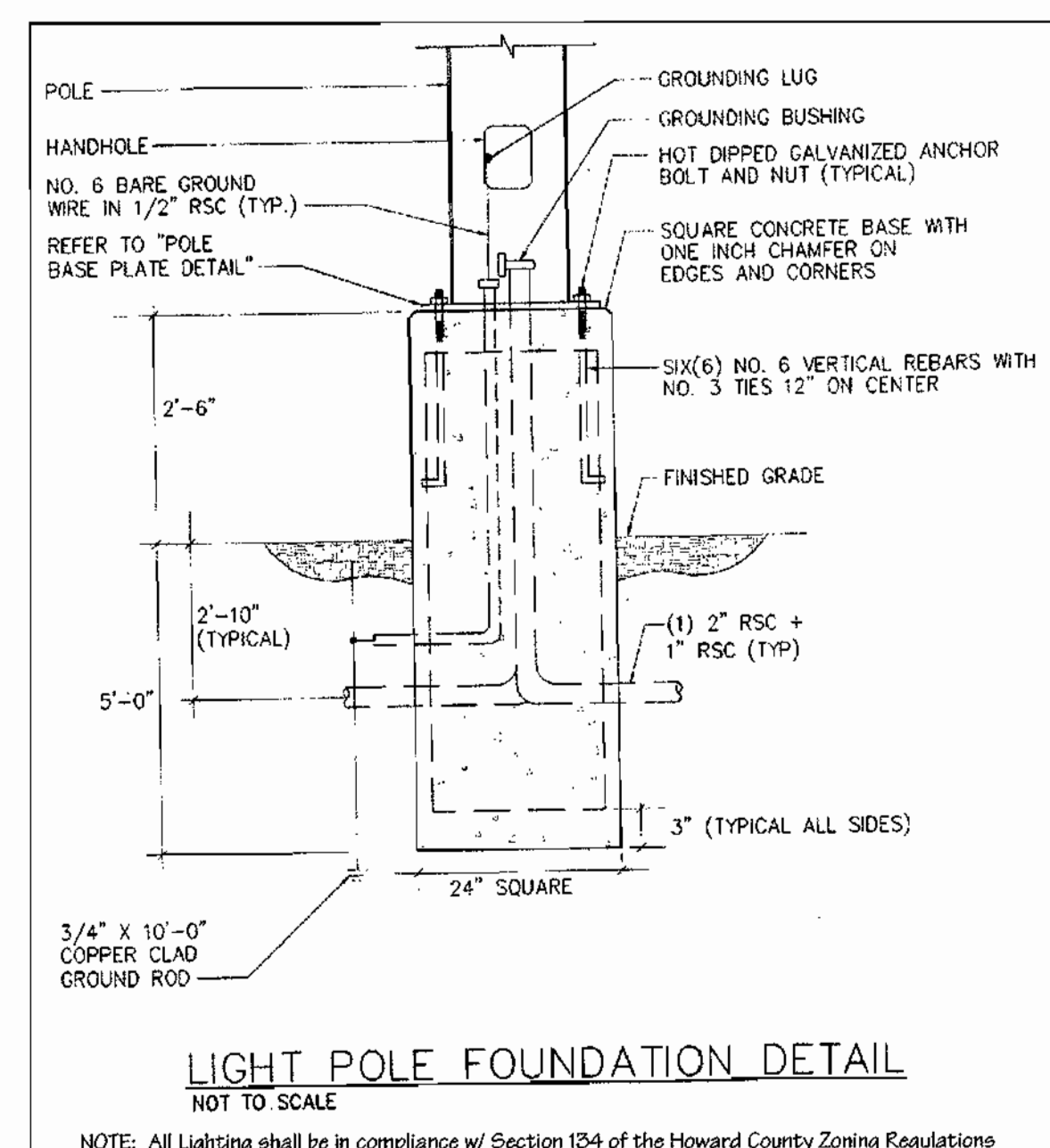
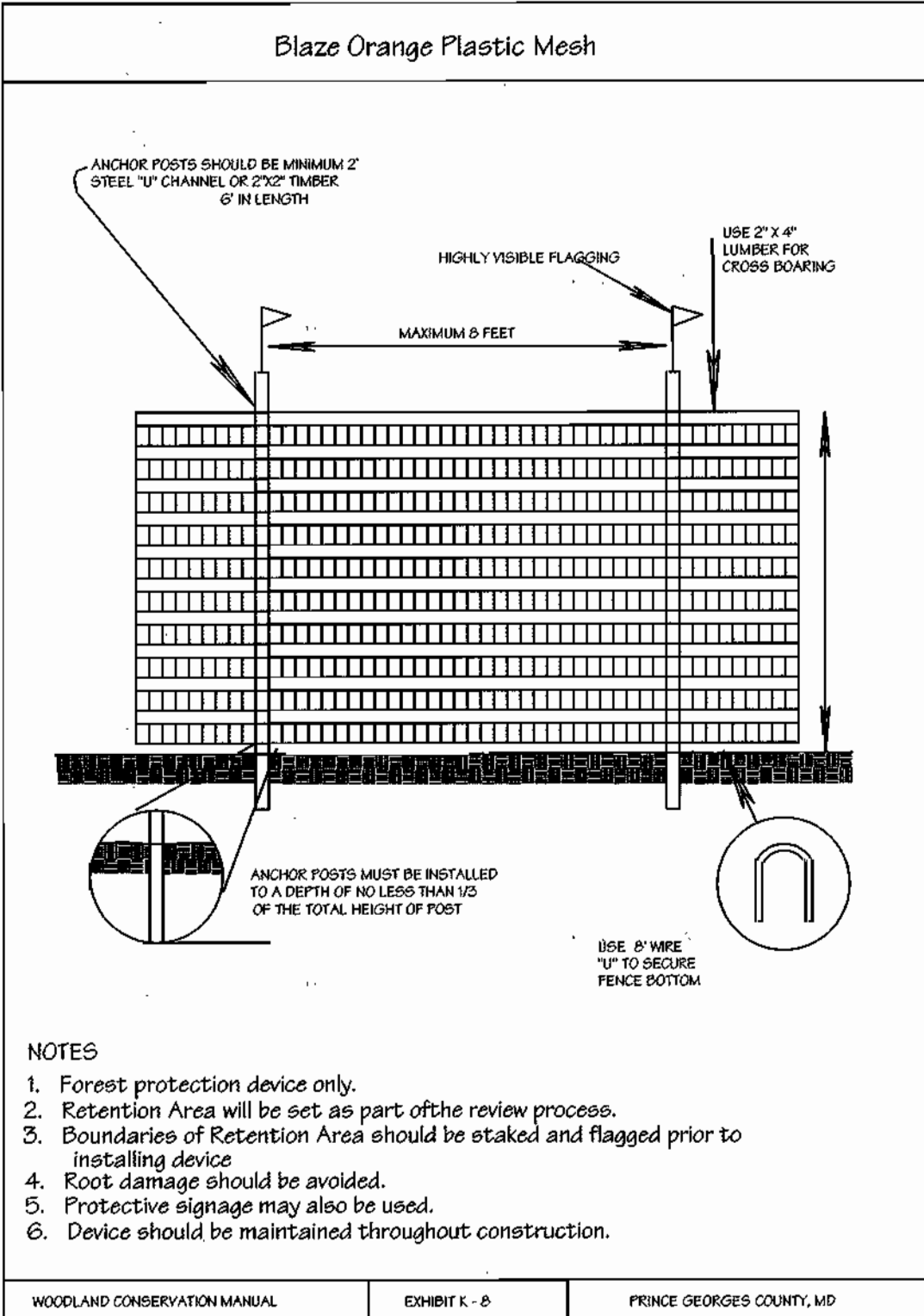
KEY	QUAN	BOTANICAL NAME/Common Name	SIZE	ROOT	COMMENTS
AA	2	ACER saccharum 'Legacy'/Legacy Sugar Maple	2'-2 1/2" Cal	B&B	
BB	6	AMELANCHIER x grandiflora 'Cumulus'/Cumulus Serviceberry	6'-8"	B&B	Single Stem
CC	8	CARPINUS caroliniana/American Hornbeam	1 1/2"-2" Cal	B&B	
DD	1	CEDRUS libanii/Cedar of Lebanon	6'-7"	B&B	
EE	6	CERCIS canadensis/Redbud	6'-7"	B&B	Multi-stem
FF	14	CORNUS bailey/Bailey's Red Twig Dogwood	2 1/2'-3'	B&B	
GG	11	CORNUS mas/Cornelian Cherry	6'-7"	B&B	Multi-stem
HH	3	COTINUS coggygia/Smokebush	2 1/2'-3'	B&B	
JJ	3	CRYPTOMERIA japonica 'Yochino'/Yochino Cryptomer	6'-8"	B&B	
KK	5	FRAXINUS americana 'Autumn Purple'/Autumn Purple	2'-2 1/2" Cal	B&B	
LL	8	FRAXINUS pennsylvanica 'Summit'/Summit Ash	2'-2 1/2" Cal	B&B	Uniform
MM	32	ILEX glabra 'Nigra'/Nigra Inkberry	18"-24"	B&B	
NN	23	ILEX glabra / Inkberry	2 1/2'-3'	B&B	
PP	25	ILEX verticillata/Winterberry	2 1/2'-3'	B&B	
QQ	32	JUNIPERUS chinensis 'Sea Green'/Sea Green Juniper	18"-24"	CONT	
RR	9	LAEGESTROMIA x 'Natchez'/Natchez Crape Myrtle	6'-8"	B&B	
SS	492	LIRIOPE muscari 'Big Blue'/Big Blue Liriope	Qt		12" OC
TT	16	MYRICA pennsylvanica/Northern Bayberry	2 1/2'-3'	B&B	
UU	5	PINUS strobus/Eastern White Pine	6'-7"	B&B	
VV	20	TAXUS baccata 'repandens'/Spreading English Yew	18"-24"	B&B	
WW	7	VIBURNUM lantana/Wayfaringtree	2 1/2'-3'	B&B	
XX	10	VIBURNUM dentatum/Arrowwood	2 1/2'-3'	B&B	
YY	3	CORNUS kousa/Kousa Dogwood	6'-7"	B&B	

ST JOHN BAPTIST PERIMETER & PARKING PLANT LIST

KEY	QUAN	BOTANICAL NAME/Common Name	SIZE	ROOT	COMMENTS
A	30	ACER rubrum/October Glory/October Glory Red Maple	2 1/2"-3" Cal	B&B	
B	17	AMELANCHIER canadensis/Serviceberry	1 1/2"-2" Cal	B&B	Multi-stem
C	4	CARPINUS caroliniana/American Hornbeam	1 1/2"-2" Cal	B&B	
D	18	CERCIS canadensis/Redbud	1 1/2"-2" Cal	B&B	
F	22	CRATAEGUS phaenopyrum/Washington Hawthorn	1 1/2"-2" Cal	B&B	Multi-stem
G	8	CRYPTOMERIA japonica 'Yochino'/Yochino Cryptomer	6'-8"	B&B	
J	21	HALESIA carolina/Carolina Silverbell	1 1/2"-2" Cal	B&B	Multi-stem
K	73	ILEX x Nellie R. Stevens/Nellie Stevens Holly	5'-6"	B&B	
M	70	PINUS strobus/Eastern White Pine	6'-8"	B&B	
N	28	QUERCUS palustris/Pin Oak	2 1/2"-3" Cal	B&B	
P	8	QUERCUS rubra/Northern Red Oak	2 1/2"-3" Cal	B&B	

**SCHEDULE A
PERIMETER LANDSCAPE EDGE**

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	'B'	'B'
Linear Feet of Roadway Frontage / Perimeter	3,696 LF	1,987 LF
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	Yes, 2,795 LF	Yes, 1,610 LF
Credit for wall, fence or berm (Yes, No Linear Feet) (Describe below if needed)	No	No
Number of Plants Required Shade Trees Evergreen Trees Shrubs	74 Shade 92 Evergreen	39 Shade 50 Evergreen
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution)	CREDIT AREAS AND 6 Shade 23 Evergreen 29 Small	CREDIT AREAS AND 7 Shade 9 Evergreen 75 Evergreen 44 Small



**SCHEDULE A
PERIMETER LANDSCAPE EDGE
(Dumpster Screening)**

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	N/A	'D'
Linear Feet of Roadway Frontage / Perimeter	N/A	44 LF
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	N/A	No
Credit for wall, fence or berm (Yes, No Linear Feet) (Describe below if needed)	N/A	No
Number of Plants Required Shade Trees Evergreen Trees Shrubs	N/A	0 Shade 4 Evergreen
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution)	N/A	4 Evergreen

PERIMETER SUMMARY

No.	Buffer Type	Linear Feet / Buffer Type	Required Plants	Provided Plants	Comments
1	"B"	727 LF	15 Shade 18 Evergreen	8 Shade 8 Evergreen 9 Small	(1) Fond #1
2	"B"	2,969 LF	59 Shade 74 Evergreen	2 Shade 15 Ever 20 Small	(2)
3	"A"	921 LF	16 Shade	7 Shade 9 Evergreen	(3)
4	"A"	1,066 LF	18 Shade	0	(4)
5	"C"	1,034 LF	26 Shade 52 Evergreen	4 Shade 4 Ever 4 Small	(5)
6	"C"	1,444 LF	36 Shade 72 Evergreen	71 Ever 40 Small	
Tot.		8,161 LF	175 Shade 266 Evergreen	107 Evergreen 73 Small	

- Comments:
- Credit for 400 LF existing vegetation to remain= 8 Shade
10 Evergreen
 - Credit for 2,395 LF existing vegetation to remain= 47 Shade
59 Evergreen
 - Credit for 315 LF existing vegetation to remain= 5 Shade
 - Credit for 1,045 LF existing vegetation to remain= 18 Shade
No plantings allowed in R/W
 - Credit for 885 LF existing vegetation to remain= 22 Shade
44 Evergreen

**SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING**

Number of parking spaces	248
Number of trees required	13
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	NO 11 Shade 4 Small PROVIDED

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

DATE: _____

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

HOWARD SOIL CONSERVATION DISTRICT

DATE: _____

ENGINEER'S CERTIFICATE

I certify that this plan for the construction and sediment control represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the District and engaged a registered professional engineer to supervise construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize my professional seal for this project.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

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 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 my professional seal for this project.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7/2/03
HOWARD COUNTY HEALTH OFFICER SRK

[Signature] 6/25/03
PROFESSIONAL ENGINEER

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16 Zone RC-DEO Tax Map No. 16 Election District 3rd Census Tract 6030

Water Code JO2 Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: W.M.C.R.P. L.D.E.
DRAWN: J.L.M. J.D.R.
CHECKED: B.D.B.
DATE: 6/20/03

SCALE: As Shown
DRAWING: 29 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L-4195/F-439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 003-36E, BA 01-64W, WP 03-06, F-03-96
OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

FOREST PROTECTION PROCEDURES - PRECONSTRUCTION PHASE

Protection of the Forest Edge

- The edge of the woods to be protected will be marked (staked or flagged) in the field per the limits of disturbance shown in the approved Site Development Plan prior to the start of construction activity. All areas within protective fences are to be considered "off limits" to any construction activities. The protective fencing shall be installed at the outside edge of forested areas and specimen trees to be retained and should be combined with sediment control devices when possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

Edge of Forested Area - 1 foot of protective radius/inch of DBH or an eight-foot protective radius, whichever ever is greater.

- Construction activities expressly prohibited within the preservation areas are:

- Placing or stockpiling backfill or top soil in protected areas
- Felling trees into protected area
- Driving construction equipment into or through protected areas
- Burning in or close proximity to protected areas
- Stacking or storing supplies of any kind
- Concrete wash-off areas
- Conducting trenching operations
- Grading beyond the limits of disturbance
- Parking vehicles or construction equipment
- Removal of root mat or topsoil
- Siting and construction of:
 - Utility lines
 - Access roads
 - Impervious surfaces
 - Stormwater management devices

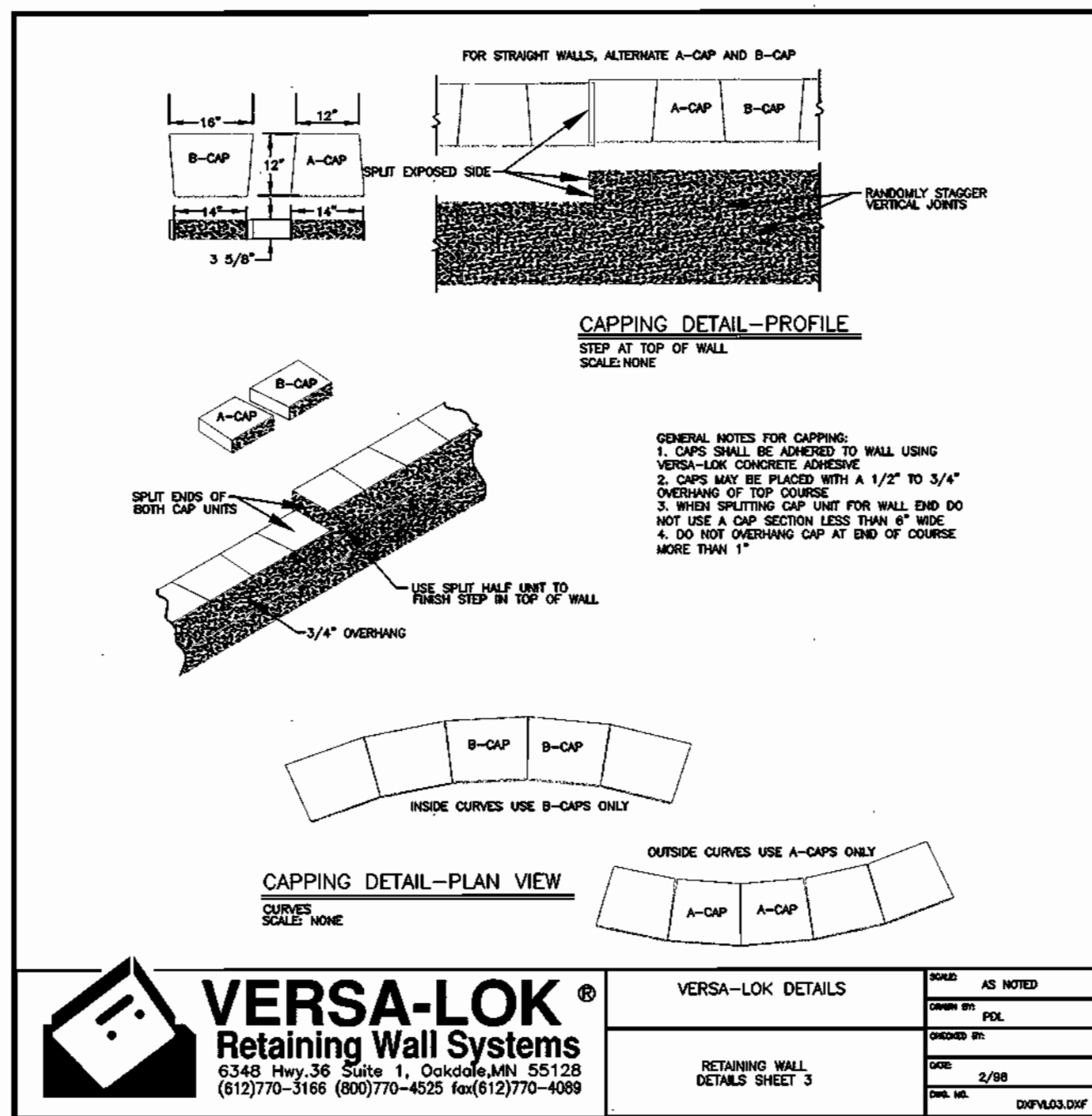
- Protective fencing (see Figure "Protective Fencing") shall be the responsibility of the general contractor. The general contractor shall affix signs to the fencing at 25' minimum intervals indicating that these areas are "Forest Retention Area" or "Specimen Tree" (see Figures "Signage"). The general contractor shall take great care to assure the restricted areas are not violated and that root systems are protected from smothering, flooding, excessive wetting from de-watering operations, off-site runoff, spillage, and drainage or solutions containing materials hazardous to tree roots.
- The general contractor shall be responsible for any tree damaged or destroyed within the preservation areas whether caused by the contractor, his agents, employees, sub-contractors, or licensees.
- Foot traffic shall be kept to a minimum in the protective areas.
- All trees which are left to be preserved within fifty feet of any tree preservation areas are to be removed in a manner that will not damage those trees that are designated for preservation. It is highly recommended that tree stumps within this fifty foot area be ground out with a stump grinding machine to minimize damage.
- The general contractor shall designate a "wash out" area on-site for concrete trucks which will not drain toward a protected area.
- A pre-construction meeting shall be held with local authorities before any disturbance has taken place on site.

FOREST CONSERVATION WORKSHEET 2.1

Note: Use 0 for all negative numbers that result from the calculations.

- Net Tract Area
 A = 41.5
 B = 3.42
 C = 37.73
 D = 7.95
 E = 5.66
 F = 12.10
 G = 6.44
- Breakover Point
 H = 7.73
- Proposed Forest Clearing
 I = 4.37
- Total Area of Forest to be Cleared
 J = 2.40
 K = 10.00
- Planting Requirements (SEE NOTE BELOW)
 If the Total Area of Forest to be Cleared (J) is at or above the Breakover Point (H), as planting is required and no further calculations are necessary (L = 0, M = 0, N = 0, P = 0). Otherwise, calculate the planting requirement(s) as follows:
- L. Reforestation for Clearing Above the Conservation Threshold
 (1) If the Total Area of Forest to be Retained (K) is greater than the Conservation Threshold (G), then L = the Area of Forest to be Cleared (J) x 0.25
 (2) If the Forest to be Retained (K) is less than or equal to the Conservation Threshold (G), then L = 2.0 x (Conservation Threshold (G) - Forest to be Retained (K))
- M. Reforestation for Clearing Below the Conservation Threshold
 (1) If Existing Forest Cover (F) is greater than the Conservation Threshold (E) and the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then M = 2.0 x (Conservation Threshold (E) - Forest to be Retained (K))
 (2) If Existing Forest Cover (F) is less than or equal to the Conservation Threshold (E), then M = 2.0 x Forest to be Cleared (J)
- N. Credit for Retention Above the Conservation Threshold
 If the area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then N = K - E
- P. Total Reforestation Required F + L + M - N
 Q = 0
 R. Total Planting Requirement R = P + Q
 R = 0

NOTE: Forest Conservation requirements of Section 16.1202 of the Howard County Code for this project is 8,5815 acres of obligation which will be fulfilled by the retention of 5,4690 acres of existing forest and the reforestation planting of 2,6583 acres on-site.



* Use Versa Lok wall or equivalent.

FOREST CONSERVATION TECHNIQUE AREA/SQ. FT. PLANT DENSITY PLANTS REQD.

Reforestation with seedlings	115,796	700 Trees/Ac.	1861 Trees
		(2'x2' min. spacing)	
Landscape Option	19,781		See Landscape Plantings
	135,577 (31.4c)		

FORESTATION PLANTING SCHEDULE

QUANTITY	PLANT NAME
465	ACER RUBRUM / RED MAPLE
465	PRUNUS SEROTINA / BLACK CHERRY
465	PINUS STROBUS / WHITE PINE
466	JUNIFER VIRGINIANA / RED CEDAR
1861	

FOREST CONSERVATION EASEMENT TABULATION

ESMT NO.	ESMT AREA	RETENTION	REFORESTATION	LANDSCAPE OPTION
#1	0.3085 AC	0.0805 AC	0.1100 AC	0.1080 AC (4,750 Sq. Ft.)
#2	1.6768 AC	1.3768 AC	0.3000 AC	0
#3	5.0057 AC	3.2089 AC	1.6483 AC	0.1485 AC (6,468 Sq. Ft.)
#4	0.4242 AC	0.2932 AC	0.1000 AC	0.0310 AC (1,360 Sq. Ft.)
#5	1.1653 AC	0.4997 AC	0.5000 AC	0.1656 AC (7,213 Sq. Ft.)
	8,5815 AC	5,4690 AC	2,6583 AC	0.4541 AC (19,781 Sq. Ft.)

SURETY REQUIRED FOR RETENTION = \$47,647

SURETY REQUIRED FOR REFORESTATION = \$57,898

LANDSCAPE OPTION CREDIT = \$9,980

TOTAL SURETY REQUIRED = \$96,665

Note: 0.4541 Ac. or 19,781 Sq. Ft. of Landscaping Planting within the Forest Conservation Easements (See Forest Conservation Easement Tabulation) has been used for \$9,980.00 of credit for the Forest Conservation Surety.

FOREST PROTECTION PROCEDURES - CONSTRUCTION PHASE

Forest and tree conditions should be monitored during construction and corrective measures taken when appropriate.

The following shall be monitored:

- Soil compaction
- Root injury - prune and monitor; consider crown reduction
- Limb injury - prune and monitor
- Flooded conditions - drain and monitor; correct problem
- Drought conditions - water and monitor; correct problem
- Other stress signs - determine reason, correct and monitor

FOREST PROTECTION PROCEDURES - POST CONSTRUCTION PHASE

The following measures shall be taken:

- Corrective measures if damages were incurred due to negligence:
 - Stress reduction
 - Removal of dead or dying trees. This may be done only if trees pose an immediate safety hazard
- Removal of temporary structures:
 - No burial of discarded materials will occur on-site within the conservation area.
 - No open burning within 200 feet of a wooded area.
 - All temporary forest protection structures will be removed after construction.
 - Remove temporary roads by removing stone or broadcasting mulch; pre-construction elevation should be maintained.
 - Aerate compacted soil.
 - Replant disturbed sites with trees, shrubs and/or herbaceous plants.
 - Retain signs for retention areas or specimen trees.
 - A County official shall inspect the entire site.
- Future protection measures:
 - Howard County shall accept the dedication of the appropriate forest protection easements.

FOREST CONSERVATION EASEMENT STANDARD NOTES:

The Forest Conservation Easement has been established to fulfill the requirements of Section 16.1202 of the Howard County Code, Forest Conservation Act. No clearing, grading or construction is permitted within the Forest Conservation Easements; however, forest management practices as defined in the Deed of Forest Conservation Easement are allowed.

DENNIS I. LABARE, M.S., & ASSOCIATES
 Environmental Consulting Services
 3833 Flagstone Circle
 Randallstown, MD 21133
 (410) 922-7476

Wetland Delineations & Mitigation
 Stream Assessment & Restoration
 Water Quality Monitoring
 Microinvertebrate Taxonomy
 Forest Stand Delineations
 Forest Conservation Plans

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

2/16/03
 7/24/03
 7/24/03

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

USDA NATURAL RESOURCE CONSERVATION SERVICE
 HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

I certify that this plan for... represents a practical and workable plan...
 Signature of Engineer: Dave D. [Signature]
 Date: 6/25/03

DEVELOPER'S CERTIFICATE

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 Sedimentation...
 Signature of Developer: [Signature]
 Date: 6/25/03

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Howard County Health Officer: [Signature]
 Date: 7-17-03

REVISIONS

No.	Date	Description

LDE, INC. 9250 Rumsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S., D.J.L.
 DRAWN: J.L.M.
 CHECKED: B.D.B., D.J.L.
 DATE: 6/20/03

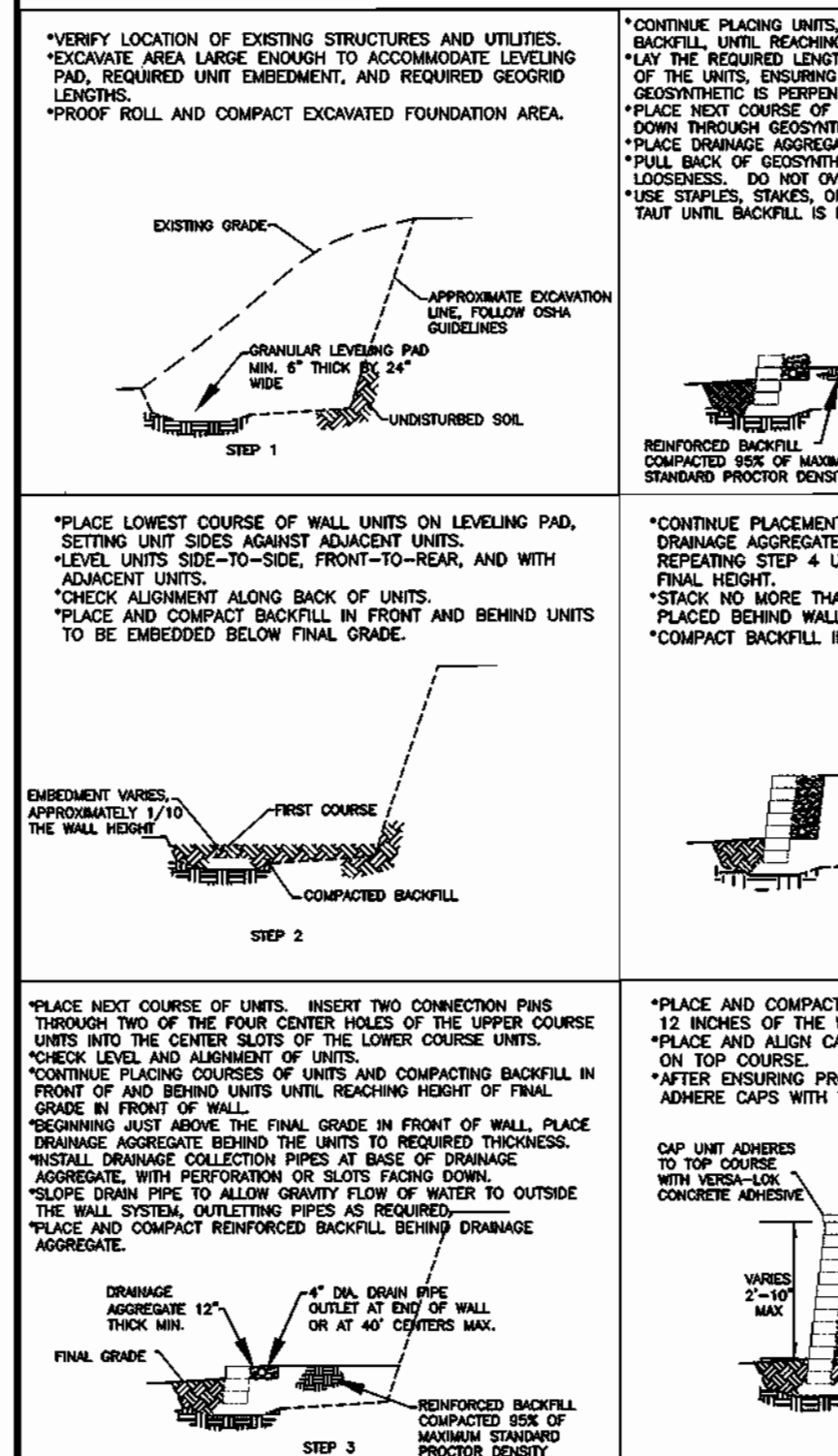
ST. JOHN THE EVANGELIST BAPTIST CHURCH
 PHASE ONE & TWO
 L4195/F.439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

PREVIOUS SUBMITTALS: BA 87-46E, BA 003-36E, BA 01-64V, WJ 03-06E, F03-96

OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: As Shown
 DRAWING: 30 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05

CONSTRUCTION SEQUENCE



INSTALLATION NOTES

- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
- CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
- SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN PARAMETERS.
- LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES.
- CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MAXIMUM.
- DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
- DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
- REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPLETED.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698)
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
- COMPACTOR WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
- CONTRACTOR SHALL SLOPE SITE GRASSES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
- ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
- FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S SPECIFICATIONS AND WRITTEN SPECIFICATIONS.
- IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

DESIGN PARAMETERS AND PROVISIONS

THE DESIGN OF THE WALL SYSTEM ASSUMES THE FOLLOWING PARAMETERS:

SOIL CONDITIONS	FRICITION ANGLE	UNIT WEIGHT
REINFORCED BACKFILL	-----	-----
RETAINED BACKFILL	-----	-----
FOUNDATION SOIL	-----	-----

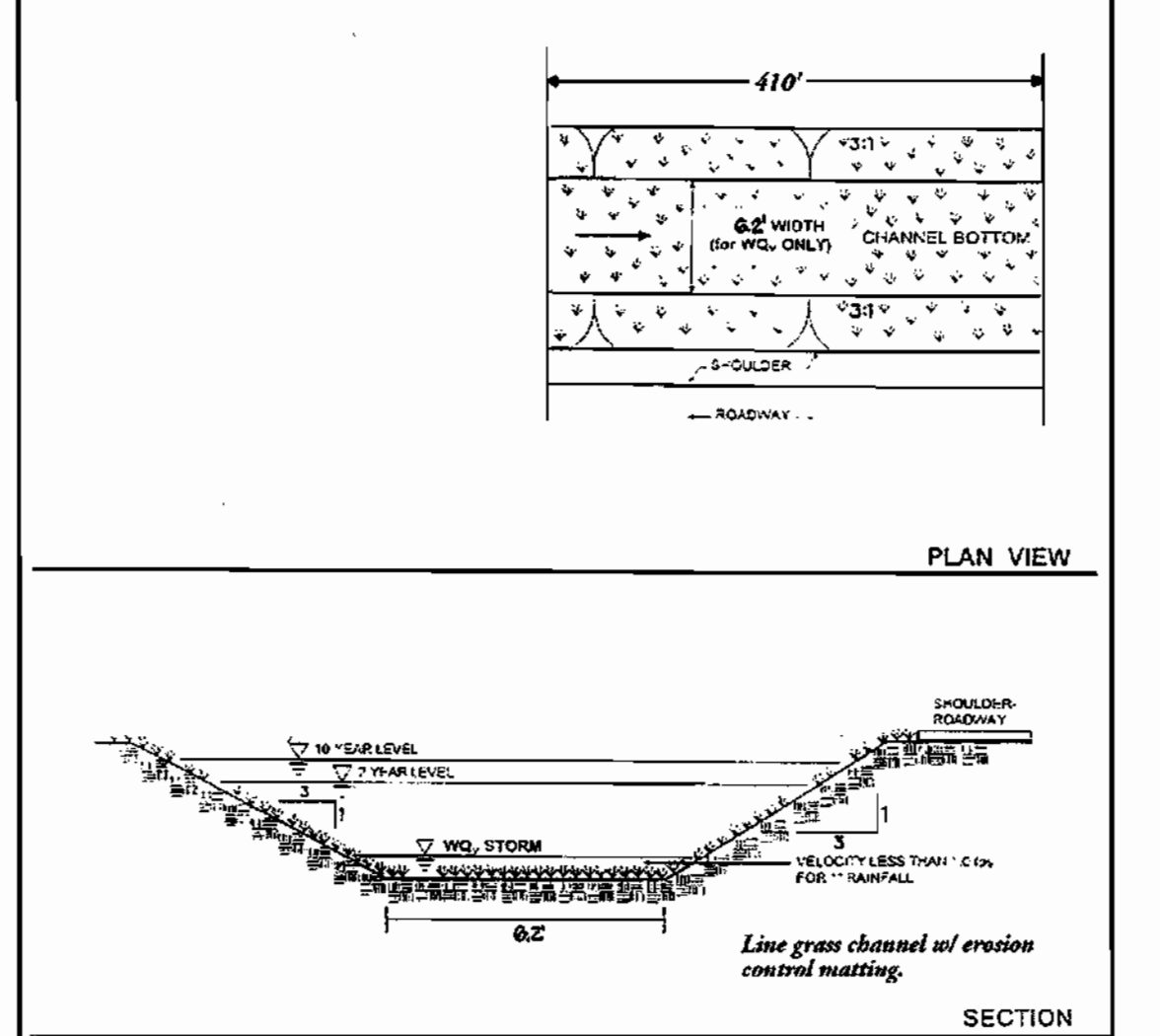
HYDROSTATIC LOADING = NONE
 SURCHARGE LOAD AT TOP OF WALL = -----

ALLOWABLE BEARING CAPACITY = -----

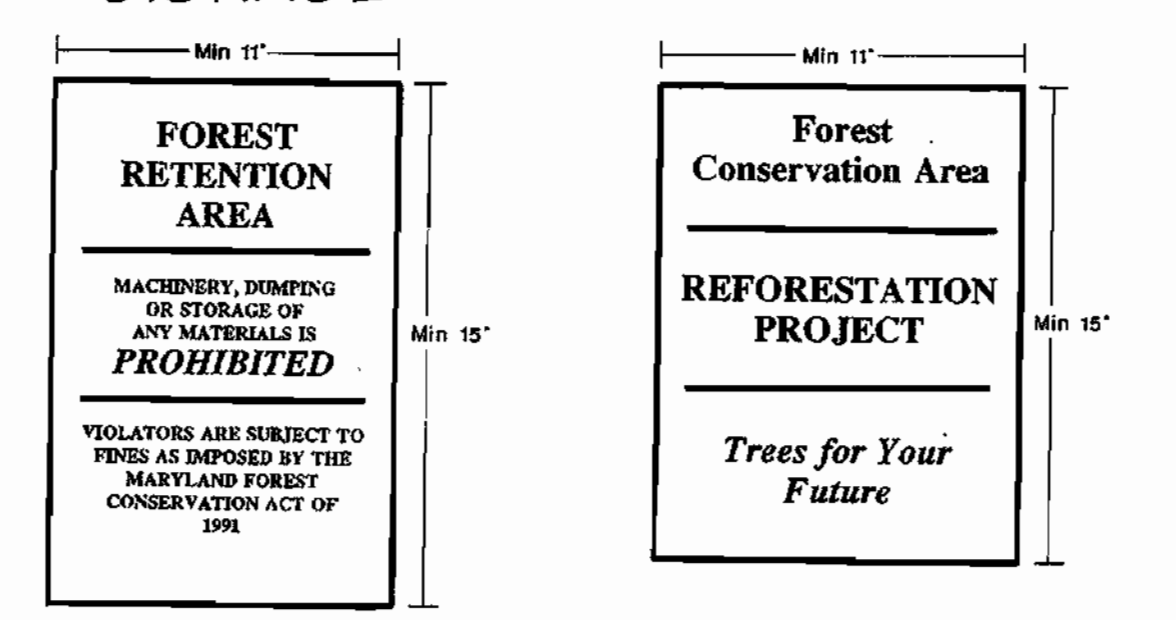
- THE WALL DESIGN ENGINEER ASSUMES NO LIABILITY FOR INTERPRETATION OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL DESIGN PARAMETERS AND INTERPRETATIONS OF SUBSURFACE GROUNDWATER CONDITIONS.
- THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENSURING THE CONDITIONS STATED ABOVE ARE ACCURATE PRIOR TO AND DURING CONSTRUCTION.
- THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENSURING THE WALL DESIGN ENGINEER IS CONTACTED IF CONDITIONS VARY.
- IT IS THE OWNER OR OWNER'S REPRESENTATIVE'S RESPONSIBILITY TO ENSURE EXTERNAL STABILITY OF THE WALL, INCLUDING BEARING CAPACITY AND SLOPE STABILITY, IS PROPERLY REVIEWED AND EVALUATED BY A QUALIFIED CIVIL ENGINEER. THE WALL DESIGN SHOWN IN THESE DRAWINGS DOES NOT ADDRESS THE SUFFICIENCY OF THE BEARING CAPACITY NOR THE SLOPE STABILITY OF THE WALL SYSTEM AND SURROUNDINGS SOIL.

Chapter 5. Stormwater Credits Grass Channel

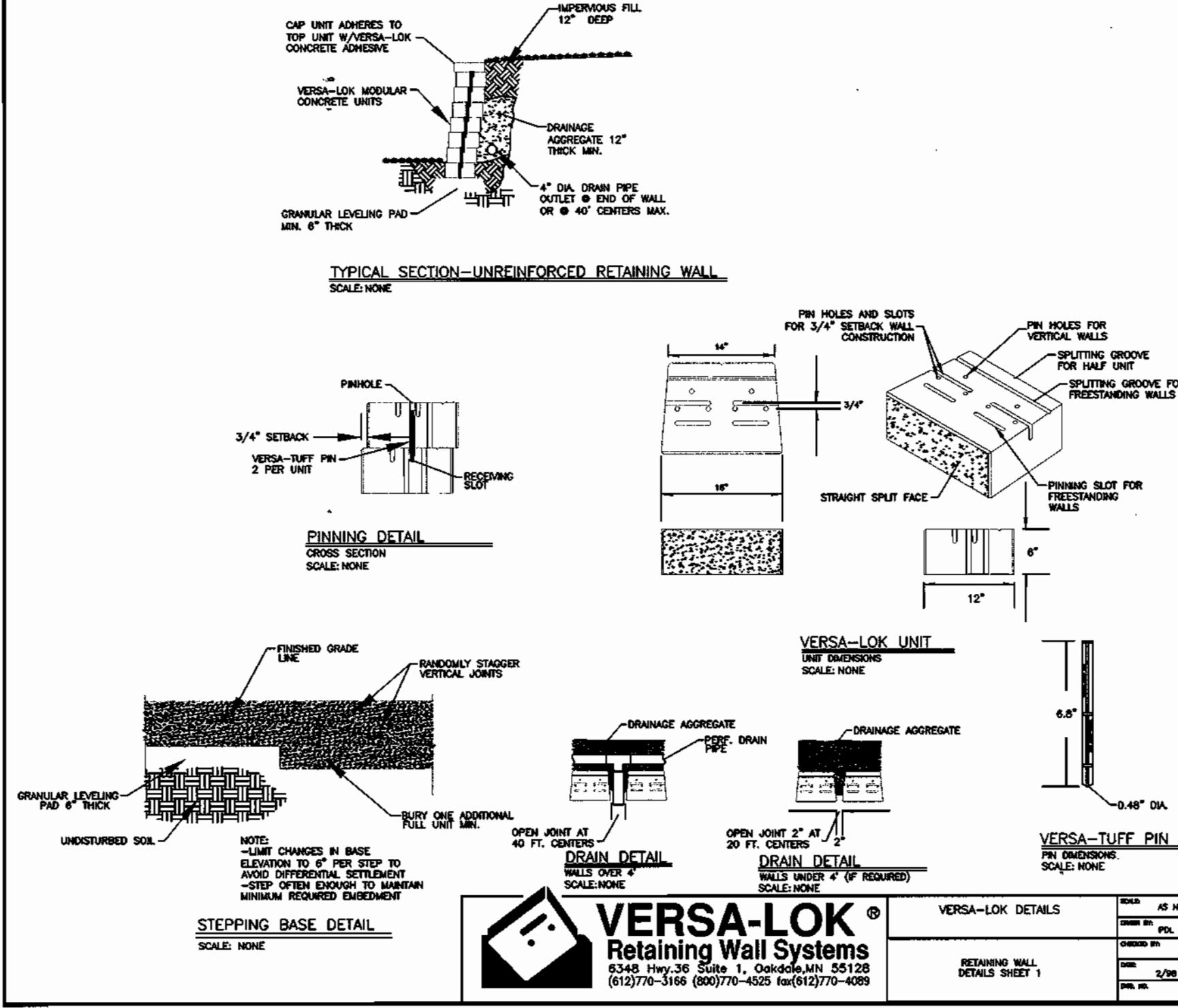
Figure 5.3 Example of Grass Channel @Driveaway Sta. 9+12 thru 13+58, 30' LT. 2



SIGNAGE



VERSALOK Retaining Wall Systems



Note: Maximum wall height is restricted to be constructed 2'-10" or less. If constructed wall height exceeds this height, geotechnical investigation and structural design shall be required.
 * Use Versa Lok wall or equivalent.

NOTES:

1. REFER TO SHEET 32 FOR PRIVATE WATER AND SEWER SYSTEM NOTES.
2. THIS PLAN IS FOR PURPOSE OF PRIVATE SEWER SYSTEMS AND PRIVATE WATER SYSTEM PLACEMENT ONLY.
3. THIS SHEET SHALL NOT BE USED FOR GRADING. SEE SHEET 4.
4. A FULL TIME PRIVATE INSPECTOR IS TO BE PROVIDED ON-SITE DURING ALL PHASES OF SEPTIC SYSTEM CONSTRUCTION. DURING SEPTIC SYSTEM CONSTRUCTION, THE HOWARD COUNTY HEALTH DEPT. IS TO BE KEPT INFORMED, ON A DAILY BASIS, OF THE PROCESS OF INSTALLATION, TO BETTER COORDINATE IT'S INSPECTION EVENTS.
5. THE EXISTING UNDERGROUND & ABOVE GROUND FUEL OIL STORAGE TANKS SERVING THE EXISTING DWELLING SHALL BE REMOVED IN ACCORDANCE WITH APPROVED STATE & FEDERAL REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS FOR TANK REMOVAL.

THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO ADJUST THE PRIVATE SEWERAGE EASEMENT RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY. THE EASEMENT CONSISTS OF 199,660 S.F.

HARBIN
4294 / 452
Parcel 204
Zoned: RC

BRANTWOOD LLC
49877 674
Parcel 96
Zoned: RC

HARBIN
4294 / 452
Parcel 204
Zoned: RC

LEGEND

- 500 --- EX. 2FT. CONTOUR
- 500 --- PROP. 2FT. CONTOUR
- 500 --- EX. 10FT. CONTOUR
- EX. TREES
- EX. TREES TO REMAIN
- STANDARD CURB & GUTTER
- EX. STREAM
- 75' FT. STREAM BUFFER
- BOUNDARY LINE
- RIGHT OF WAY
- EXISTING PAVING
- EX. FENCE LINE
- PROPOSED STORM DRAIN
- EX. TELEPHONE POLE
- PERCOLATION TEST LOCATION (PASSED)
- PERCOLATION TEST LOCATION (FAILED)
- PERCOLATION TEST LOCATION (FAILED-ROOF, 54PKROUTE)

U.S. ROUTE 40
Baltimore National Pike
(EX. 200' R/W)

EXISTING EASTBOUND TRAVEL LINES
P/O PRIVATE FOREST CONSERVATION EASEMENT AREA #5 AND STORMWATER MANAGEMENT CREDIT EASEMENT 1.055 AC.±
Vehicular Ingress & Egress is Restricted



ENGINEER'S CERTIFICATE

I certify that this plan for proposed development and construction control represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer of the requirements of the Howard Soil Conservation District and the developer has agreed to comply with the requirements of the Howard Soil Conservation District.

David B. Williams
SIGNATURE OF ENGINEER
DATE: 6/25/03

DEVELOPER'S CERTIFICATE

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

W. Williams
SIGNATURE OF DEVELOPER
DATE: 6/25/03

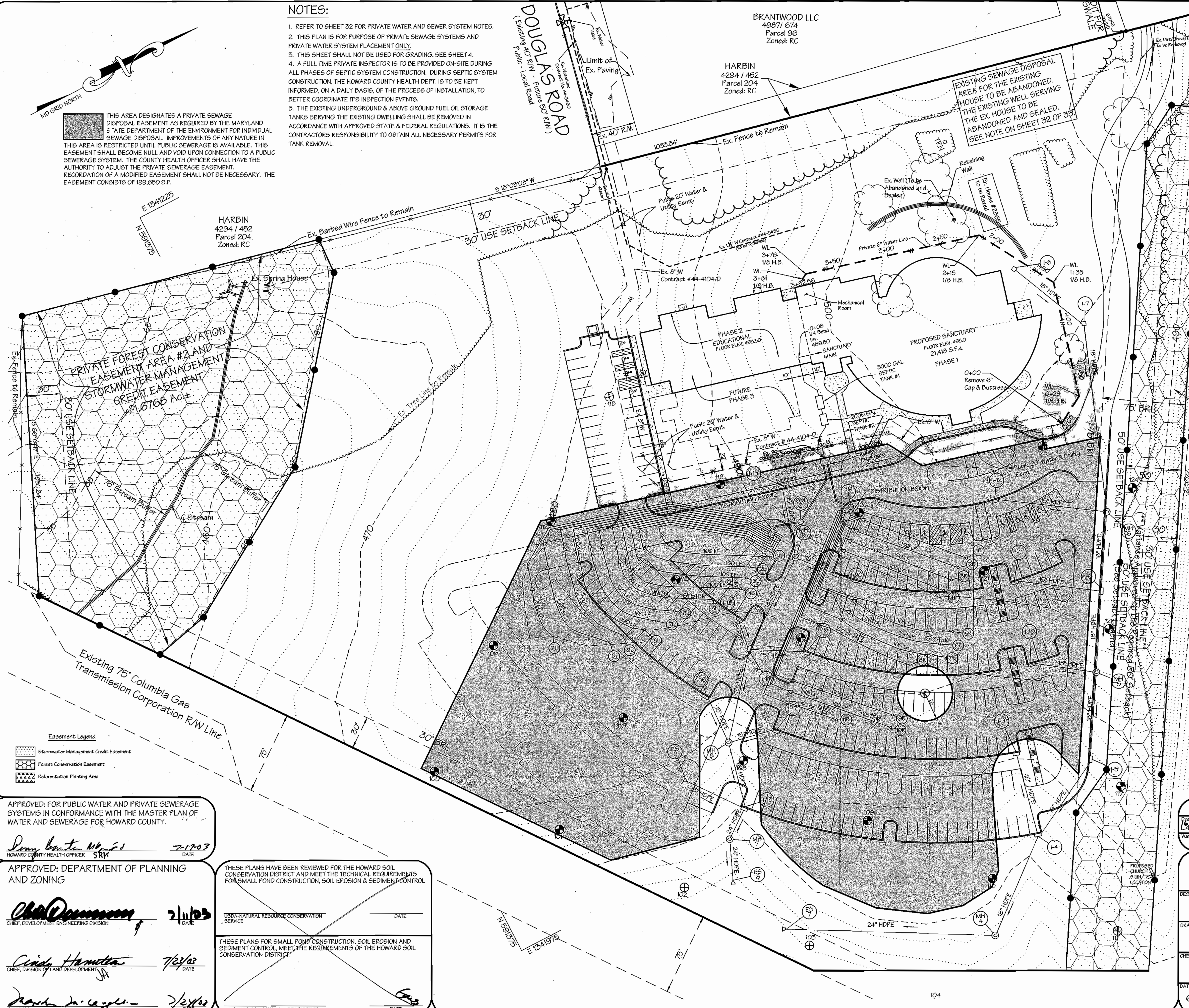
REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area:	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Election District: 3rd	Census Tract: 6030	Water Code: J02
		Sewer Code: N/A

LDE, INC.
9250 Rumsley Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. B.D.B.	Private Water Service Connection & Private Sewerage System Plan	SCALE: 1" = 40'
DRAWN: J.L.M.	ST. JOHN THE EVANGELIST BAPTIST CHURCH	31 of 33
CHECKED: B.D.B.	Phase One & Two	JOB NO.: 00-003
DATE: 6/2003	Tax Map No. 16 - Grid No. 16 - Parcel 203 3rd Election District - Howard County, Maryland	FILE NO.: SDP 02-05
	Previous Submittals: BA 87-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96	
	OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH c/o Mr. Lonnie King Jr. 8910 Old Annapolis Road / MD. Route 108 Columbia, Maryland 21045	



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Denny Carter
HOWARD COUNTY HEALTH OFFICER
DATE: 7/12/03

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Dammann
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/11/03

Cindy Hamilton
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/23/03

David DeAngelis
DIRECTOR
DATE: 7/24/03

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE
DATE:

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

HOWARD SOIL CONSERVATION DISTRICT
DATE:

File Name: Projects 62501010166.dwg, PRIVATE SEWERAGE (31), 6/25/2003 11:07:51 AM

WATER & SEWER NOTES

PART I: GENERAL

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates. [North American Datum of 1983 (NAD'83)].
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6". Clear all poles by 20' minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the Contractor's work requires the bracing of additional poles, any cost incurred by the Owner for bracing of additional poles or damages shall be deducted from money owned the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
6. For details not shown on the drawings and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (latest edition). The Contractor shall have a copy of Volume IV on the job.
7. Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor two weeks in advance of construction operations at his own expense.
8. Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
 - a. SHA: (410) 531-5533
 - b. BGE (Contractor Services): (410) 850-4620
 - c. BGE (Underground damage control): (410) 787-9068
 - d. Miss Utility: 1-800-257-7777
 - e. Colonial Pipeline Company: (410) 786-1290
 - f. Howard County Dept. of Public Works, Bureau of Utilities: (410) 313-4900
 - g. Bell Atlantic: 1-800-446-5266
 - h. Howard County Health Department: (410) 313-6300
9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs within the construction strip are not to be removed or damaged by the Contractor.
10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
11. Contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DFW requirements per Section 18.114(a) of the Howard County Code.

PART II: WATER

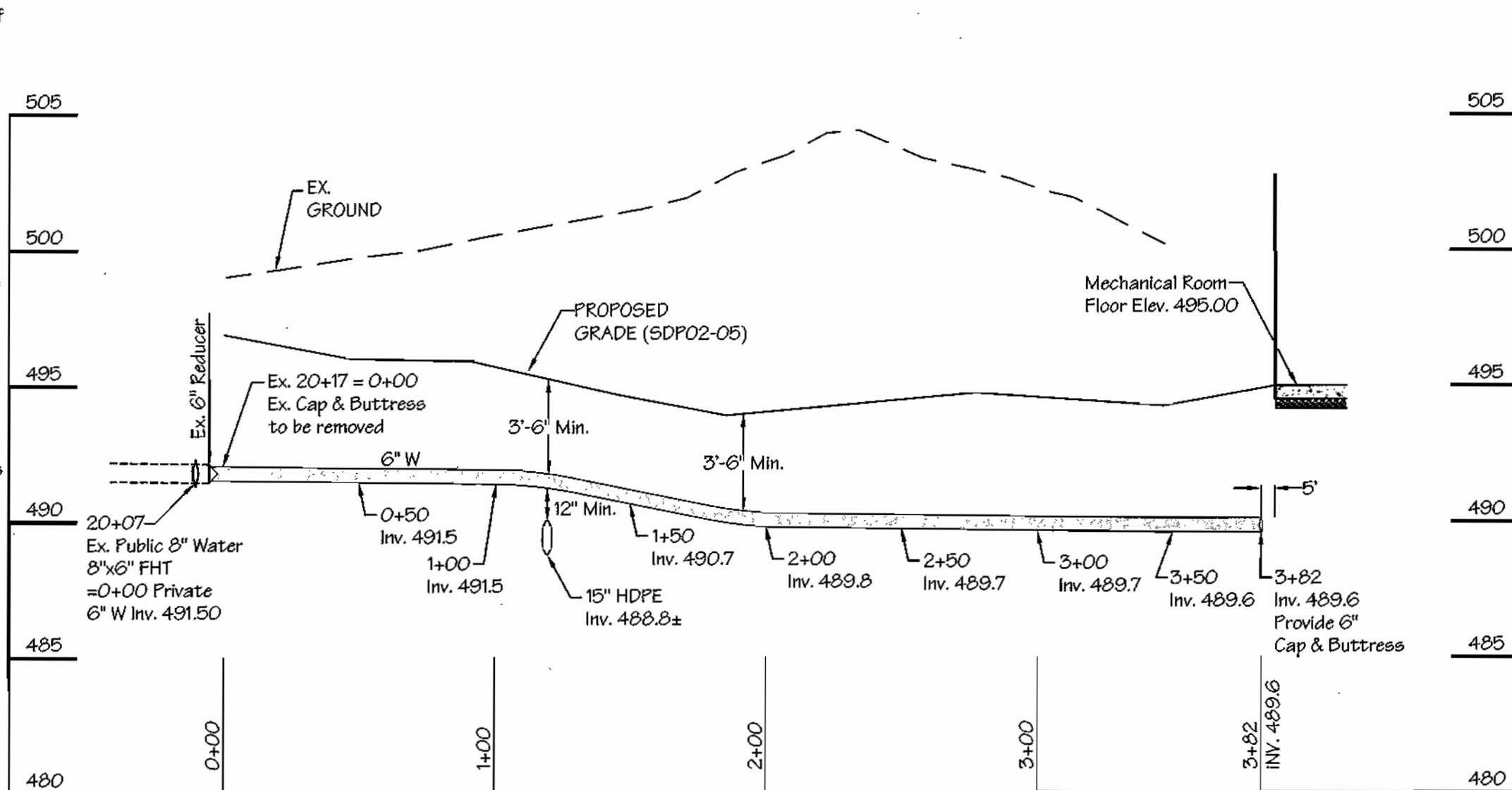
1. Unions, couplings and other fittings for copper tubing shall be the copper service thread type as manufactured by the Mueller Company, Ford Meter Box Company, A.Y. McDonald Manufacturing Company, Zurn Industries Hays Water Service Products, or approved equal, unless otherwise shown or directed. Three part unions will be used in lieu of two part unions and will be Mueller H-15405, Ford C22 series, McDonald 4755, Hays 5615, or approved equal.
2. A water meter shall be installed on an incoming line in an accessible location.
3. The existing well (10-73-122) serving the existing Fellowship Hall shall be abandoned and sealed. In accordance with approved Howard County Health Department procedures.
4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
5. The Contractor shall not operate any water main valves on the existing water system.
6. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

PART III: SEWER

1. All sewer mains to be D.I.P., and P.V.C. unless otherwise noted.
2. All proposed sewers shall be private.
3. All manholes shall be 4'0" inside diameter unless otherwise noted.
4. Force mains shall be D.I.P. only.
5. Manholes designated W.T. in plan and profile shall have water tight frame and covers; Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 16" above finished grade unless otherwise noted on the drawings.
6. Manholes shown with 12" and 16" walls are for brick manholes only.

ADDITIONAL NOTES:

1. The Developer or Developer's Contractor shall provide a full time private inspector who is qualified to inspect large septic system designs. This individual is to be provided on site during all phases of septic system construction. During septic system construction, the Howard County Health Department is to be kept informed, on a daily basis, of the progress of installation to better coordinate its inspection events.
2. The contractor shall ab-built the septic trench portion and the collection portion of the private septic system, and receive approval from the Howard County Health Department prior to the connection to the existing buildings for service.
3. The vertical elevation of the proposed parking lot within the proposed private sewage disposal easement will be restricted to a minimum of four feet of cover from the trench inlet to the bottom of the proposed paved surface.
4. All trenches shall have aeration vents installed. All vents within paving shall be traffic bearing capacity.
5. The existing sewage disposal system servicing the existing dwelling shall be abandoned properly. The existing distribution box shall be removed, any distribution trenches within the existing system may remain in place, however, any lines cut or otherwise disturbed and any associated discharge or contaminated soil shall be disposed of in accordance with approved Howard County Health Department and/or Maryland Department of the Environment (MDE) procedures. The septic tank and distribution box shall be pumped and collapsed. The location of any drain fields shall also require removal in accordance with approved Health Department procedures. If sewage filled soils are encountered, these soils cannot be transported offsite; but may be removed and immediately buried elsewhere on site, as long as a public health nuisance is not created. The contractor shall be responsible for proper abandonment procedures, notification, reporting to the Howard County Health Department of the existing septic systems and proper connection of the sewer from the existing sanitary, parsonage and fellowship hall to the new septic system.
6. All pressure sewer shall be SDR 21, PVC, solvent welded.
7. All pressure sewer is to be pressure tested according to the Howard County Department of Public Works Standards and Specifications.
8. The contractor shall notify Howard County Health Department at (410) 313-2640 at least five (5) working days before any pressure test of pressure sewers, and before any septic tanks vacuum or water testing is performed.
9. The contractor shall be responsible for the requirements and method of installation of pump chamber and all of its appurtenances.
10. Where pumps are required:
 - 1.) The control panel for the pump shall be mounted on the side of the building nearest to the pump. The pump shall have an elapsed time meter and event counter.
 - 2.) Clear view of the pump chamber shall be maintained.
 - 3.) St. John the Evangelist Baptist Church shall own and maintain the control panel.
 - 4.) The electric service to the panel and the buried cables to the pump chamber shall be installed by the contractor.
 - 5.) A disconnect panel, separate from the pump panel must be located on the outside of the building adjacent to the pump control panel. This disconnect shall only feed the pump control panel, and shall be outfitted with a lock.
 - 6.) The pump shall be installed by a County approved utility contractor prior to final building inspection, and tested by the manufacturer prior to issuance of a Use & Occupancy for the new building construction.
11. In the event there is water or debris in the pump chamber prior to setting of the pump, the contractor shall pay for the chamber to be pumped.
12. ALL COST associated with the maintenance of the pump shall be borne by the owner - St. John the Evangelist Baptist Church.
13. The relocated sewage disposal system will require a dual lift pump system with visual and audible alarms at time of installation. The high water alarm is to be installed on a separate circuit from the pump. The pump size will be determined by the manufacturer prior to issuance of the septic system permit.
14. The Sanctuary and Future Phases which will utilize the sewage disposal area (A 514914) as shown herein provides for a maximum seating capacity of 1025 parishioners at a 5 gallon per day per seat loading rate. The design flow for the proposed system is 4995 gallons per day. The design flow will not change for the future phases to the project. The proposed sewage disposal system provides the required trench length for the maximum 4,995 GPD design flow. The required trench length, 2,082 LF, is provided in two (2) separate cells, each cell contained 1,050 LF of trench. For the requirements for "Big System" design, the proposed dual lift pump system will keep one 1,050 LF septic trench cell at rest while the other 1,050 LF septic trench cell is active. The total trench length provided is 2,100 LF or 100% of the Maximum Design Flow. This length of trench exceeds the required length for the maximum volume, as the maximum design flow would occur for Phase One & Two, at most, one day of the week. In addition, Council Resolution allows religious facilities adjacent to the planned Service Area to connect to the public sewer system. In deference to St. John the Evangelist Baptist Church's desire to pursue a future connection to the public system, the Howard County - Health Department has waived the requirement of drain field sizing equal to 150% of the maximum design flow. Since the church is actively pursuing connection to the public sewer system, septic system longevity is not an issue.

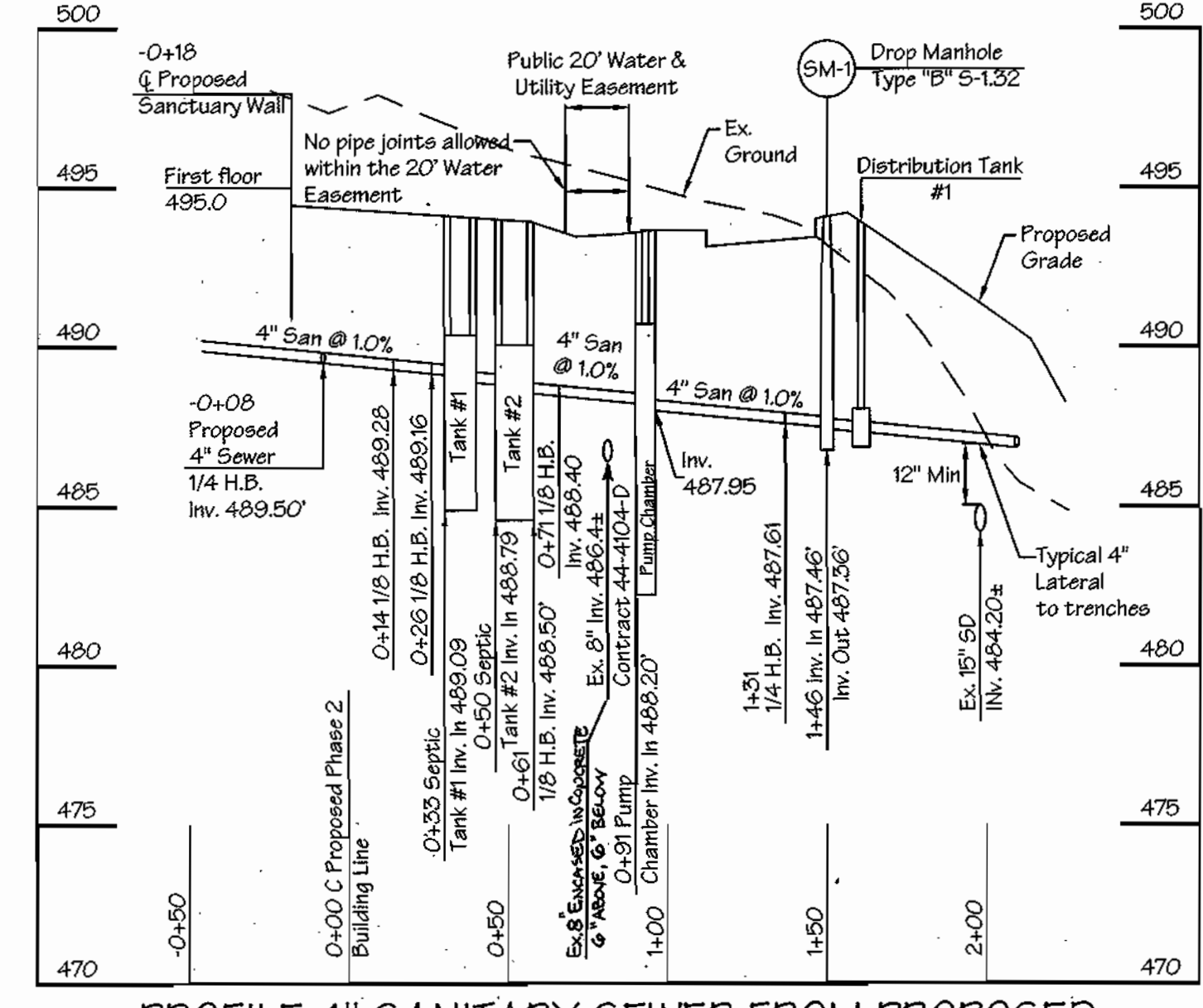


6" Private Water Service to Sanctuary From Existing Contract #44-4104D

SCALE: 1"= 50' HORIZ
1"= 5' VERT.

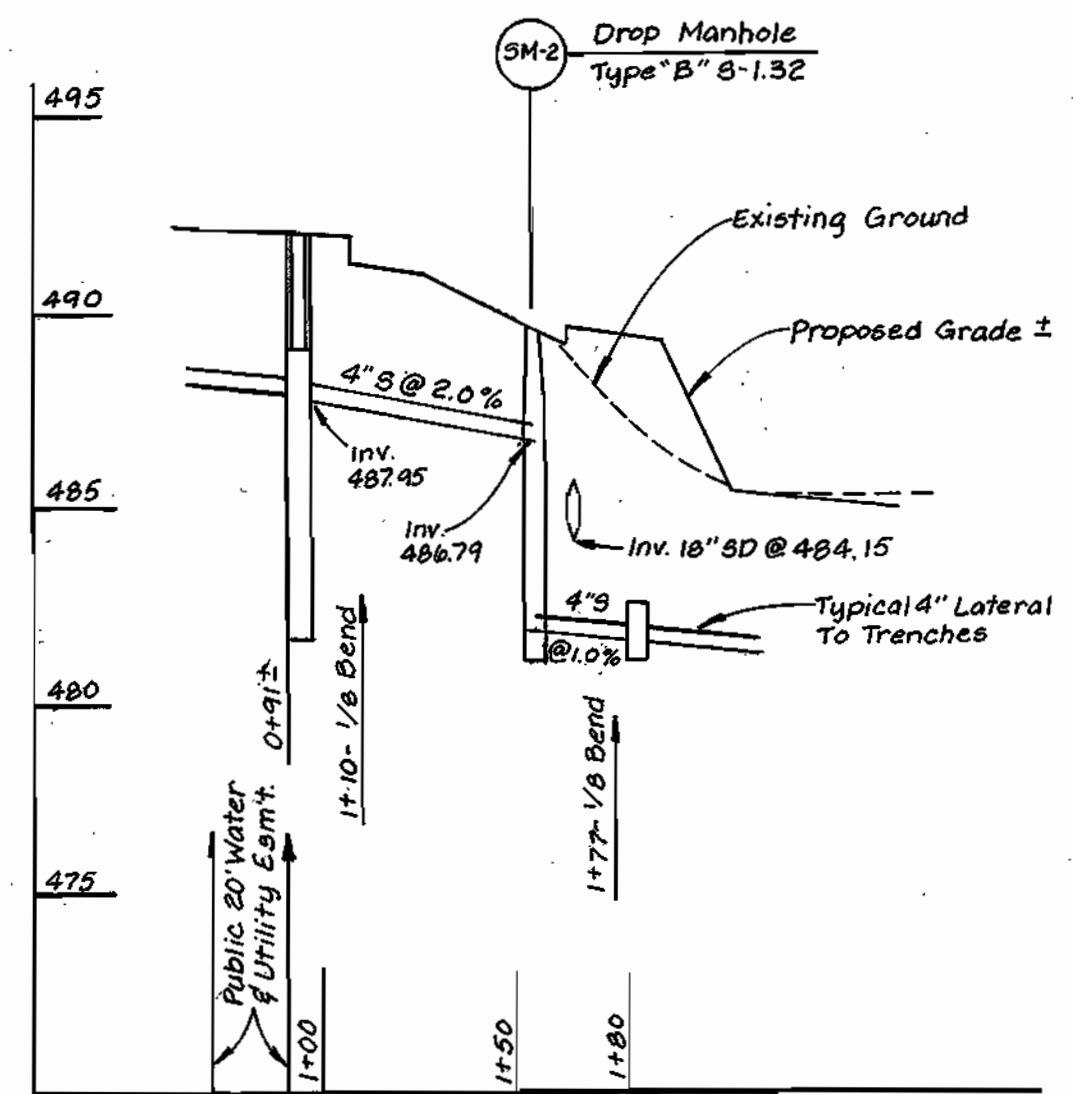
TRENCH DESIGN		
Maximum Sewage Flow	Minimum Trench Length	
PHASE 1 - 2295 GPD	2295 / 0.8 / 3.0' Depth = 967'	
PHASE 2 - 4995 GPD	4995 / 0.8 / 3.0' Depth = 2082'	
PHASE 3 - 4995 GPD	4995 / 0.8 / 3.0' Depth = 2082'	

SEWAGE DESIGN FLOW CALCULATIONS		
Construction Phase	Total Predicted Population	Max. Sewage Flow
Phase 1: Sanctuary / (Sunday)	735 Parishioners / Service x 3 GPD	2205 GPD (Sunday)
Admin. Staff (Mon. - Fri.)	Admin. Employees 6 People x 15 GPD	2295 GPD (Mon. - Fri.)
Mid Week Prayer Service / (Wed. PM)	735 Parishioners x 3 GPD	
	Total Design Flow	2295 GPD
Phase 2: Sanctuary / (Sunday)	735 Parishioners / Service x 3 GPD	2205 GPD (Sunday)
Admin. Staff (Mon. - Fri.)	Admin. Employees 6 People x 15 GPD	2790 GPD (M. T. Th. & Fri.)
Mid Week Prayer Service / (Wed. PM)	735 Parishioners x 3 GPD	4995 GPD (Wed. Only)
Educational Bldg. / (Mon. - Fri.)	180 Students x 15 GPD	
	Total Design Flow	4995 GPD
Phase 3: Sanctuary Expansion / Fellowship Hall / (Sunday)	1025 Parishioners / Service x 3 GPD	3075 GPD (Sunday)
Admin. Staff (Mon. - Fri.)	Admin. Employees 6 People x 15 GPD	2790 GPD (M. T. Th. & Fri.)
Mid Week Prayer Service / (Wed. PM)	735 Parishioners x 3 GPD	4995 GPD (Wed. Only)
Educational Bldg. / (Mon. - Fri.)	180 Students x 15 GPD	
	Total Design Flow	4995 GPD



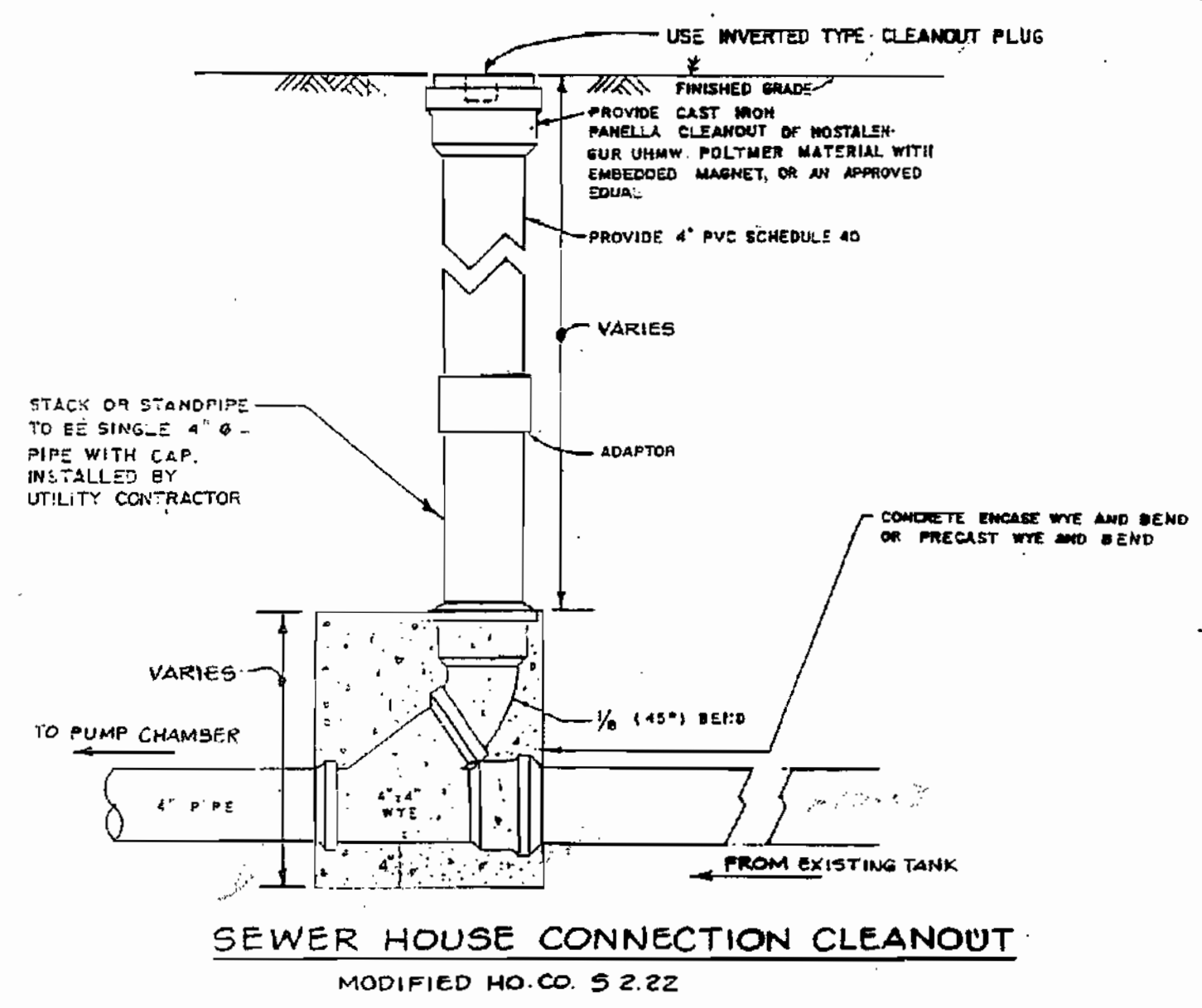
PROFILE 4" SANITARY SEWER FROM PROPOSED SANCTUARY TO DISTRIBUTION TANK #1

SCALE: 1"= 50' HORIZ
1"= 5' VERT.

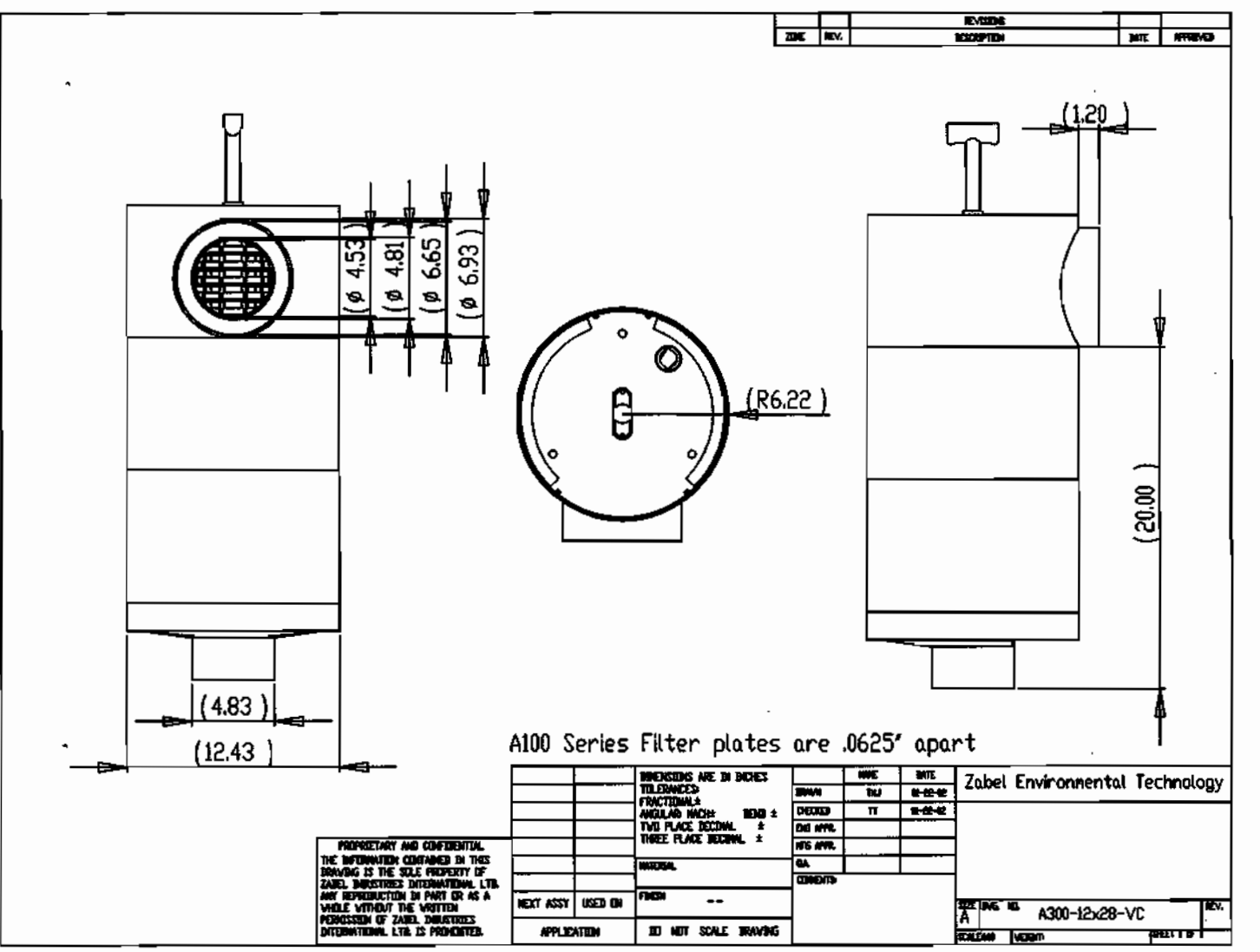


PROFILE 4" SANITARY SEWER FROM PROPOSED PUMP CHAMBER TO DISTRIBUTION TANK #2

SCALE: 1"= 50' HORIZ
1"= 5' VERT.



SEWER HOUSE CONNECTION CLEANOUT MODIFIED HO. CO. 5.2.22



Zabel® Recommendation: Any configuration of filters used should not exceed 48" in height.
The product(s) shown are covered by one or more of the following patents:
U.S. 6,382,587; 5,882,577; 5,880,453; 5,582,716; 5,591,301; 4,710,295; 5,593,584; U.S. Des. 386,241,349,667; 4905501,5098566; Des. 309007; Canadian: 2,135,937; New Zealand: 264824; Other Patents Pending

Zabel® A100 Series Commercial & Residential Effluent Filter Product Specification

1. Product Name: Zabel® A100 Commercial & Residential Effluent Filter, U.S. Patent: 4,710,295
2. Model Numbers: A100 Case & Cartridge; A100 Cartridge Only; A100-HIP Case & Cartridge; A101-HIP Cartridge Only
3. Applications: Apartments, trailer parks, schools, churches, shopping centers, and offices; Septic pump stations and community treatment plants; Single and Multi-family homes
4. Performance Specification
 - 4.1. Model A100: 3,000 gpd
 - 4.2. Model A100-HIP: 4,500 gpd
 - 4.3. Multiple filters may be installed in manifolds to handle larger flows. Use a Zabel Flow Control Plate Model FC100 to set the effluent flow to predetermined limits.
 - 4.4. TSS: Reductions in TSS within six months of installation - 50 to 90 percent. The higher the pre-filtered TSS the greater the percentage of reduction.
 - 4.5. BOD₅ Reduction in BOD₅ within six months of installation - 20 to 45 percent is dependent on the make-up of the wastewater.
5. Materials: All materials are non-corrosive. Case & Lid - PVC; Filter discs - Polystyrene; Rods - Polystyrene; Nuts - Nylon. A100-HIP rods and nuts are stainless steel.
6. New System Installation: Center the top of the 12 inch Filter Case under an outlet access opening at least 18 inches in diameter. PVC solvent weld the ball coupling to the 4 inch Schedule 40 PVC exit pipe of the tank as required by local code. The PVC outlet pipe should extend at least 18 inches beyond the outside face of the tank wall. If required to meet depth requirements, install a Zabel® Extension Reducer and 4-inch Schedule 40 pipe to the bottom of the filter case. A riser to grade is recommended. High performance double stack (Model A100-HIP) filters and multiple filters installed in manifolds will require additional support and access.
7. Existing System Installation: The filter may be installed in an existing septic tank if an outlet access opening already exists and the filter can be installed without damaging the existing tank. If a 4-inch Schedule 40 PVC pipe does not extend into the tank, the filter can be installed utilizing a plumbing flange. If the existing septic tank cannot be used, the filter can be installed using a Zabel® Container Assembly Model CA100 or Zeus® Basin System.
8. Service: A professional onsite service company should perform all onsite system service.
9. Service Method: Grasp the filter handle and pull the filter cartridge upward. A Zabel® 36" T-Handle is available if required to reach filters more than 12 inches below grade. Hoist the cartridge into the tank and reinsert into the case. If required, the filter may be disassembled for further cleaning.
10. Service Frequency: The filter requires cleaning when the septic tank is normally inspected and pumped as required by local regulation. The A100s are designed to slough most normal solids off the inside of the vertical disc drain walls and back into the tank when the effluent flow is in a resting state. Installation of an effluent filter may increase the frequency of service if the homeowner discharges materials that are harmful to the system.
11. Warranty: The A100s are warranted to be free from defects in material and workmanship for the life of the original purchaser. Zabel's liability is limited to repair or replacement of the part and in no event shall Zabel® be liable for any consequential damages of any kind.

NOTE: 1.) EFFLUENT FILTER TO BE INSTALLED ON ALL SEPTIC TANKS AT OUTLET LOCATION.
2.) NOT REQUIRED ON THE PUMP CHAMBER OUTLET.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
Darryl Hunter 7-17-03
HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chris Hunt 7/21/03
CHIEF, DIVISION OF PLANNING AND ZONING DATE

David M. Agyle 7/21/03
DIRECTOR DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL
USDA-NATURAL RESOURCE CONSERVATION SERVICE DATE

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

ENGINEER'S CERTIFICATE
I certify that this plan for...
David M. Agyle 6/25/03
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
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...
David M. Agyle 6/25/03
SIGNATURE OF DEVELOPER DATE



REVISIONS		
No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Parcel No.: 203
Block No.: 16	Zone: RC-DEO
Tax Map No.: 16	Election District: 3rd
Census Tract: L4195F-439	Census Tract: 6030
Water Code: J02	Sewer Code: N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/20/03

Private Water Service Connection & Private Sewage System - Notes & Details
ST. JOHN THE EVANGELIST BAPTIST CHURCH
PHASE ONE & TWO
L4195F/439
Tax Map No. 16 - Grd No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 87-466, BA 003-36E, BA 01-64Y, WP 03-06, F 03-96
OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lorne King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: As Shown
DRAWING: 32 of 33
JOB NO: 00-003
FILE NO: SDP 02-05

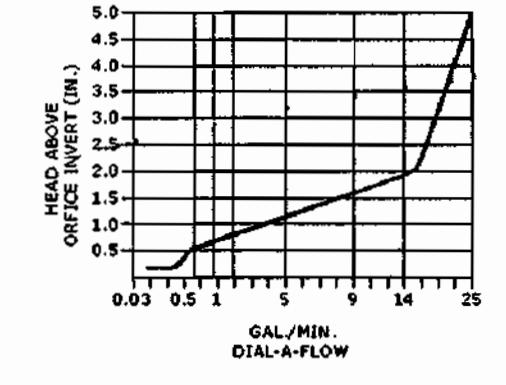
AMERICAN DIAL-A-FLOW™

The American DIAL-A-FLOW™ is a new and innovative device for equally distributing flow out of distribution boxes. With the eccentrically located opening, the installer can rotate the DIAL-A-FLOW™ with a single flip of the wrist to balance all discharge ports for equal flow.

Flow Control:
The American Dial-A-Flow™ provides a circular weir. Each outlet of the distribution box will equally discharge wastewater upon rising water level in the box. When the opening becomes submerged, the dial-a-flow becomes an orifice and further enhances equal distribution. The discharge rate of each dial-a-flow is depicted in the graph. The ideal condition is noted in inches above the invert of the orifice and is based on open discharge. The graph was derived from testing in a laboratory environment.



PATENT NO. 4,298,470



- Installation Instructions**
- Cut pipe as evenly as possible and remove burrs.
 - Insert pipe into distribution box and extend pipe 1" into box.
 - Insert dial-a-flow into pipe ends with opening to one side. (Do not use glue) Note: Proper cutting of corrugated pipe will result in dial-a-flow snapping behind one corrugation.
 - Level pipe individually or place level on orifice lip.
 - Purge pipes in concrete boxes into place with suitable material.
 - Fill with water and "dial up" each pipe to water surface.

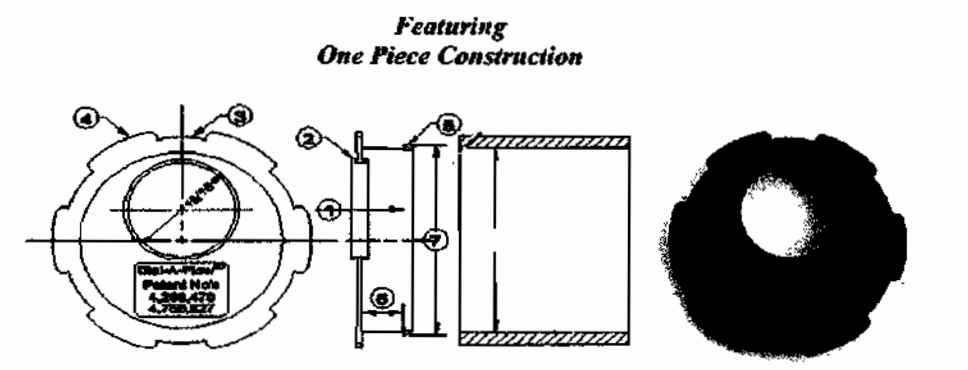
Schedule 40
Astm 3034
S & D

Std 35
Astm 2729
Corrugated

Note: ASTM does not set standards for I.D. of many types of pipe. Many types of pipe are specified by O.D. and wall thickness tolerances. Make sure you check your regularly available pipe fit prior to ordering the gross in the grey. Ask for our free sample for a size check.

SPECIFICATION: DIAL-A-FLOW™
Provide a non-corrosive flow control device to be rotatably secured in the discharge piping of the drainfield distribution box. The device shall have an eccentrically located circular opening with a diameter of 1-1/16". This will provide a uniform in any rotated position. The device shall have a leveling lip extending into the box 1/8". The leveling means shall be a cylindrical extension inside the pipe with radially extending slots to initiate contact with pipe at least 3/4" inside the pipe. The device shall be provided with a gripping edge on the periphery of the end faces for easy rotation. The gripping edge shall consist of six uniform extensions and valleys for easy finger gripping.

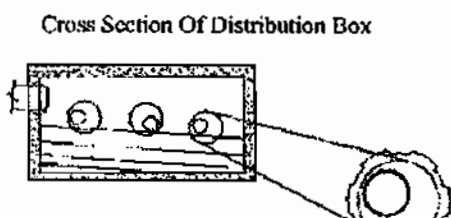
The device shall be made of low density polyethylene, and one piece construction. This seal shall also be capable of snapping behind a corrugation of standard 4" corrugated pipe. The flow control device shall be Dial-A-Flow™ as manufactured by American Manufacturing Co., Inc., Manassas, Va.



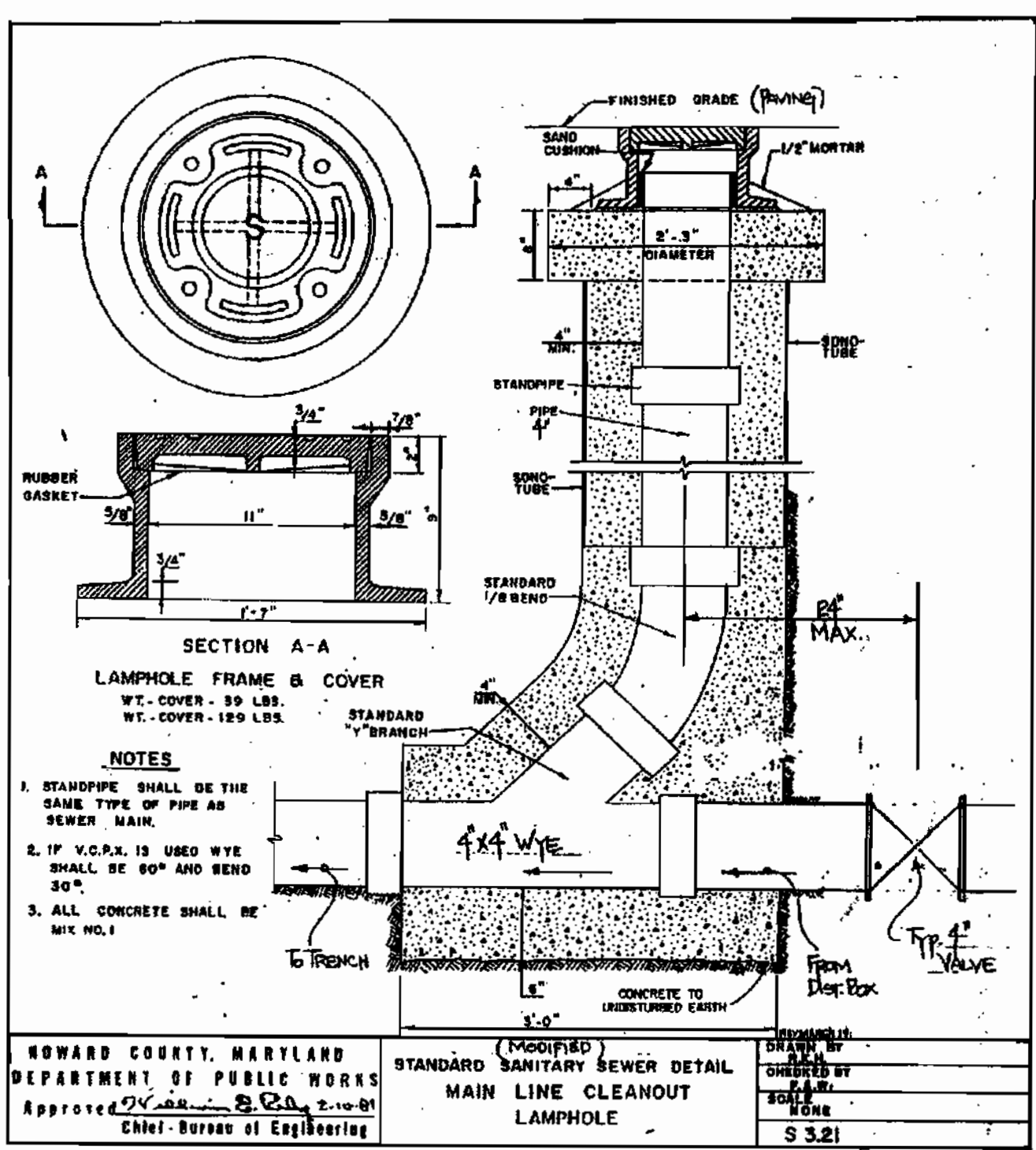
Color	Construction	Size
DIAL 4 GREEN	One-Piece Construction	Large
DIAL 4 GRAY	One-Piece Construction	Medium
DIAL 4 BLACK	One-Piece Construction	Small

How Do You Equalize Flow?

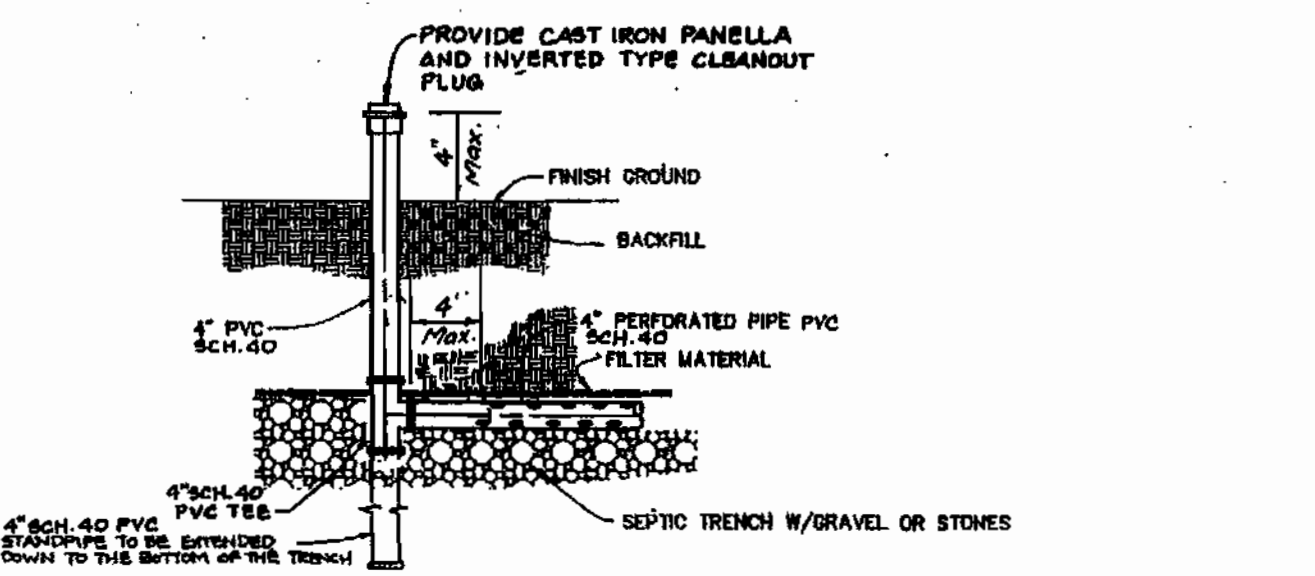
- The American Dial-A-Flow™
- ECCENTRIC OPENING LOCATION
 - WATER EXTENSION
 - FINGER GRIP VALLEY
 - FINGER GRIP EXTENSION
 - PIPE SEAL
 - 3/4" MIN. SEAL DEPTH
 - I.D. PIPE



Part No. Size
DIAL 4 GREEN 4" NOMINAL - 4" I.D. & ABOVE
DIAL 4 GRAY 4" NOMINAL - UNDER 4" I.D.
DIAL 4 BLACK 4" NOMINAL - FOR DOUBLE WALL PIPE

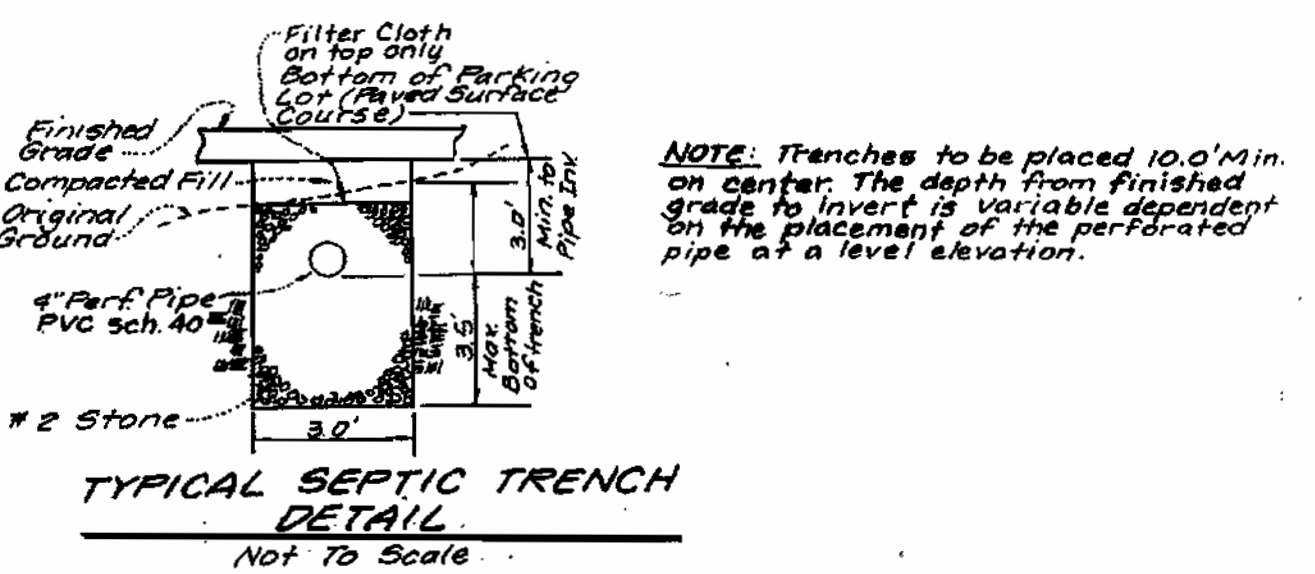


SEWER CLEANOUT FOR ALL PAVED AREAS (Not to Scale)

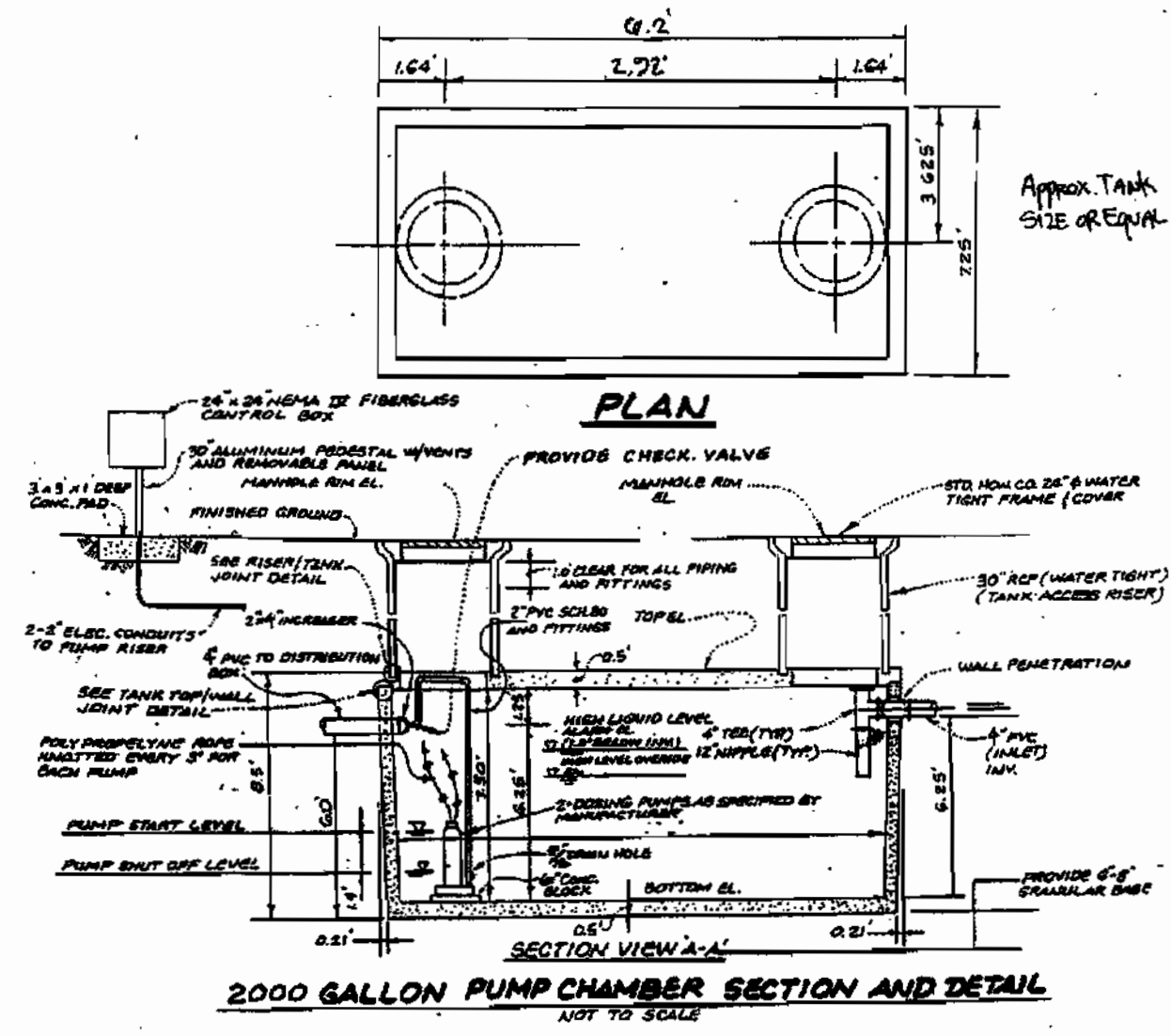


DISTRIBUTION LATERAL TERMINATION DETAIL (Not to Scale)

* NOTE: Where trench/lateral terminates in a paved area, use a cleanout cap per modified S. 3.21 above.

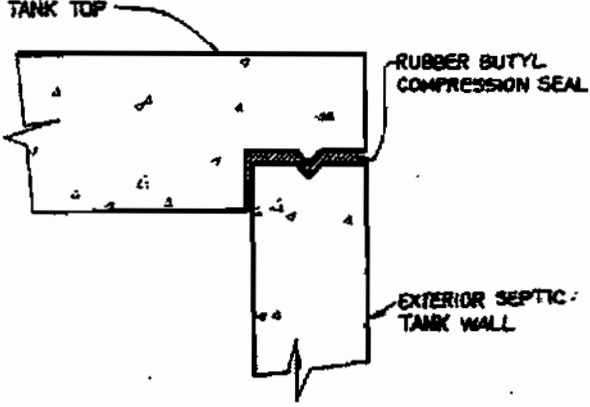


TYPICAL SEPTIC TRENCH DETAIL (Not to Scale)



2000 GALLON PUMP CHAMBER SECTION AND DETAIL (Not to Scale)

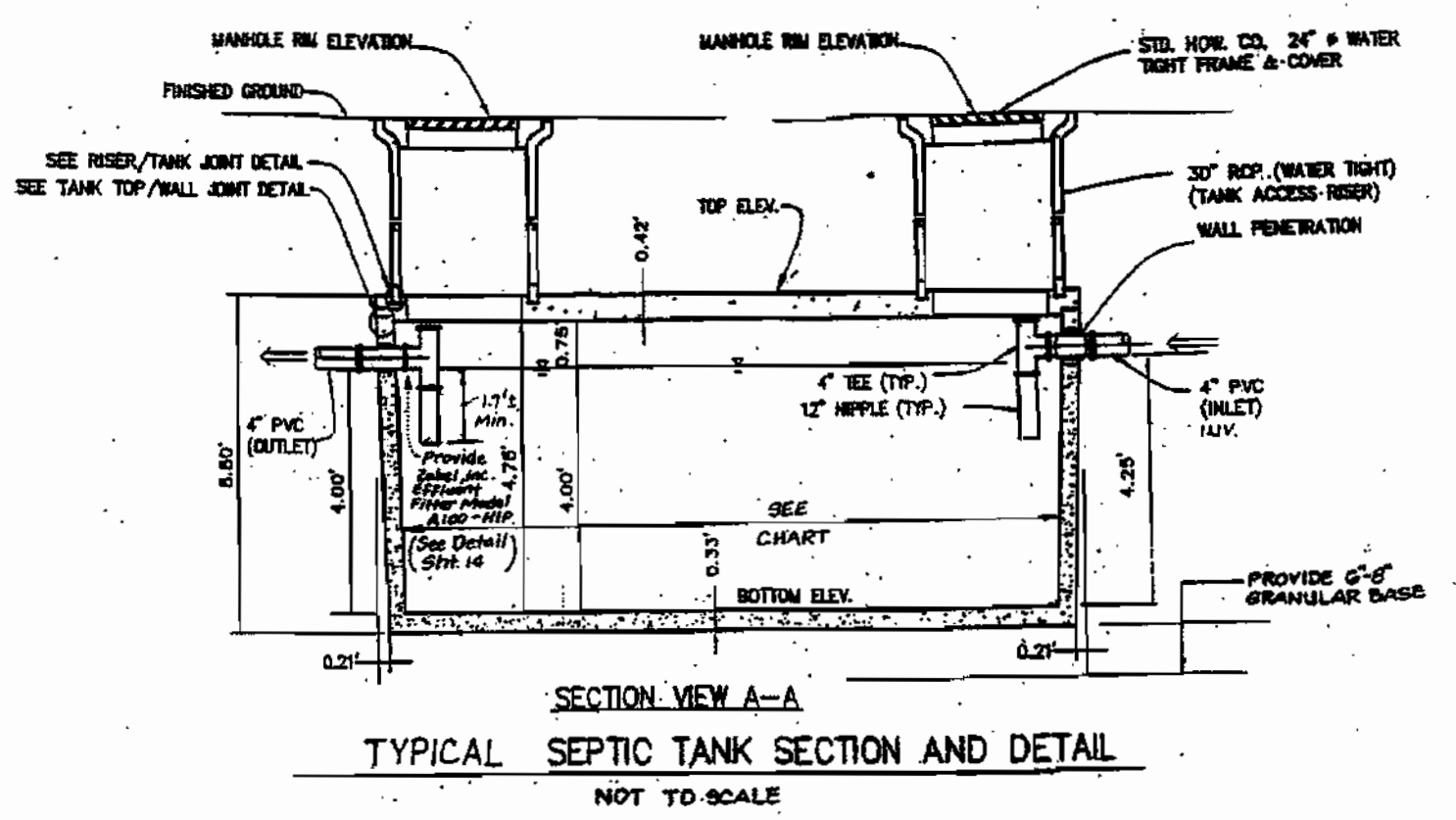
- Pump Chamber Notes**
- Provide stainless steel hooks 6" down from top of accessway to support floats, excess pump cable and lifting harness.
 - All electrical cables from dosing pumps and controls shall use home run to panel. No junction boxes, etc. shall be permitted.
 - Conduit will be run to facilitate maintenance.
 - Control panel, pedestal, pumps and floats to be provided by pump manufacturer, Fremore and Assoc. (410-759-3500).
 - Electrical service will be single phase into the control panel with 3 phase out.
 - Pump dose to individual septic cell = 1/6 x 4895 GPD = 815 gallons.



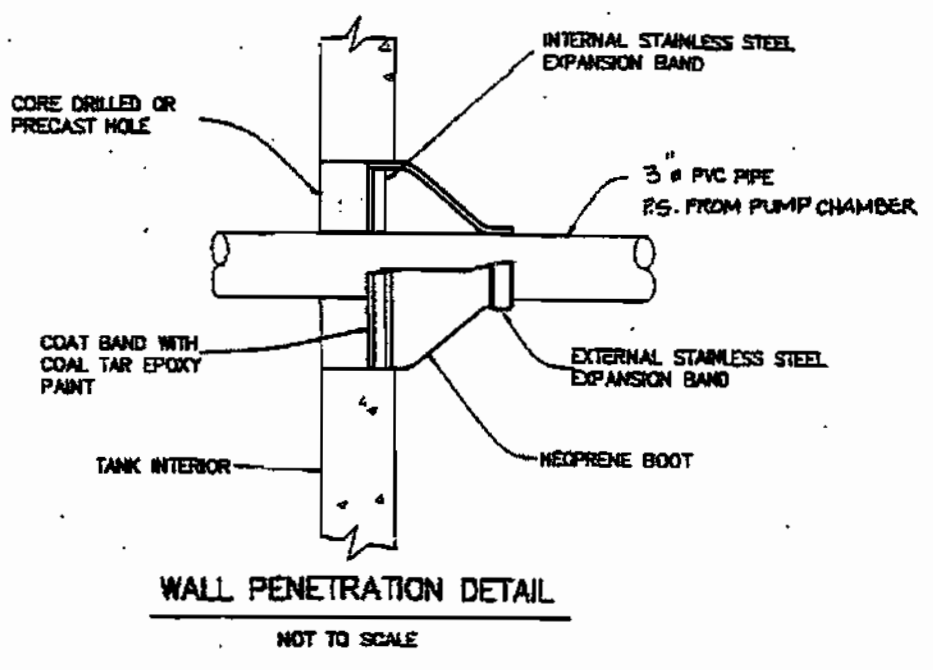
TANK TOP/WALL JOINT DETAIL (Not to Scale)

2000 GALLON TANK	3000 GALLON TANK
6.7' Wide	8.4' Wide
10' Long	12' Long
4' Deep	4' Deep

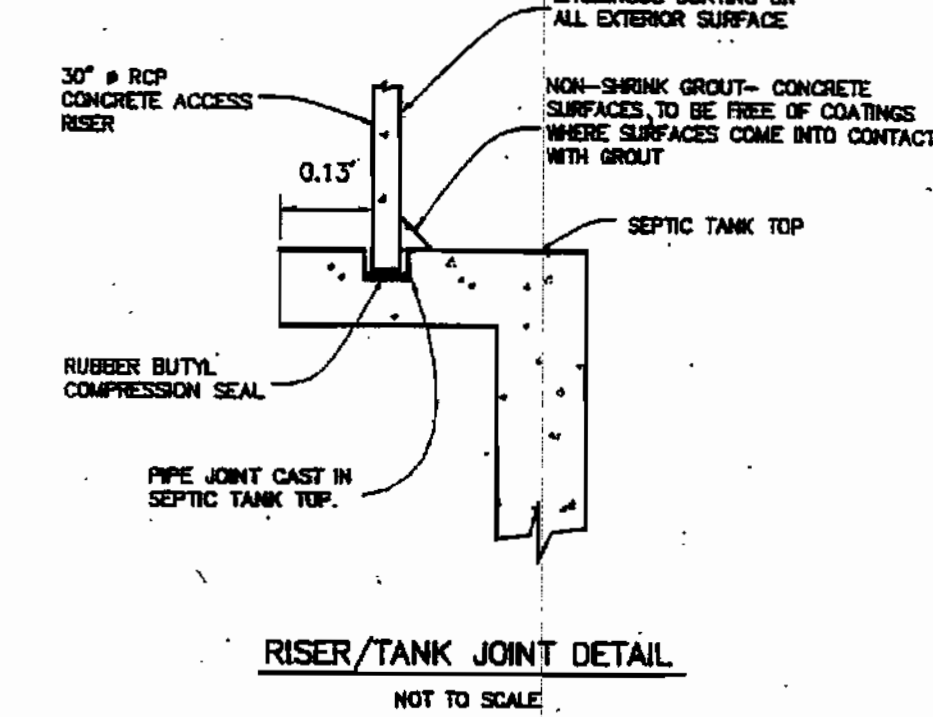
OR EQUIVALENT



TYPICAL SEPTIC TANK SECTION AND DETAIL (Not to Scale)



WALL PENETRATION DETAIL (Not to Scale)



RISER/TANK JOINT DETAIL (Not to Scale)

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/14/03
CHIEF, DEVELOPMENT ENGINEERS DIVISION

[Signature] 7/28/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/29/03
DIRECTOR

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

USDA NATURAL RESOURCE CONSERVATION SERVICE

DATE: _____

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

HOWARD SOIL CONSERVATION DISTRICT

DATE: _____

ENGINEER'S CERTIFICATE

I certify that this plan for the construction of a pond and equipment control represents a practical and workable design for the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the District of my involvement as a registered professional engineer to supervise construction of 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 project within 30 days of completion. I also authorize public on-site inspection by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at 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 project within 30 days of completion. I also authorize public on-site inspection by Howard Soil Conservation District.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER DATE

STATE OF MARYLAND

DAVID B. BROWN
REGISTERED PROFESSIONAL ENGINEER

6/25/03

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7/12/03
HOWARD COUNTY HEALTH OFFICER DATE

REVISIONS

No.	Date	Description

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area: _____	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Election District: 3rd	Census Tract: 6030	Water Code: J02
Power Code: N/A		

LDE, INC.

9250 Rumsey Road, Suite 106, Columbia, MD, 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

Private Sewerage System - Details

DESIGNED: E.D.S.

DRAWN: S.T.B., D.J.M.

CHECKED: B.D.B.

DATE: 6/2003

SCALE: As Shown

33 of 33

JOB NO.: 00-003

FILE NO.: SDF 02-05

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L-4195/F-439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WF 03-06, F 03-36

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
891C
c/o Mr. Lonnie King Jr.
Annapolis Road / MD, Route 108
Columbia, Maryland 21045

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. Q. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE
- 520 --- SOIL BORING
- 520 --- TRAFFIC FLOW DIRECTION
- 520 --- EDGE OF PAVING
- 520 --- LIMIT OF CURB
- 520 --- HO CO STD R.3.01 CURB & GUTTER

- NOTES:**
- Refer to sheet 0 for details of Handicapped Parking Areas.
 - Refer to sheets 11 & 12 for storm drain profiles and structure schedule.
 - For Soil Boring Locations and Information, refer to sheet 21.
 - Refer to sheet 6 for Park details.
 - Refer to sheet 6 for Parking Lot Light Details.

"BOARD OF APPEALS - SETBACK LEGEND"

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.

A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.

SUMMARY TABLE FOR STUDY POINT #1

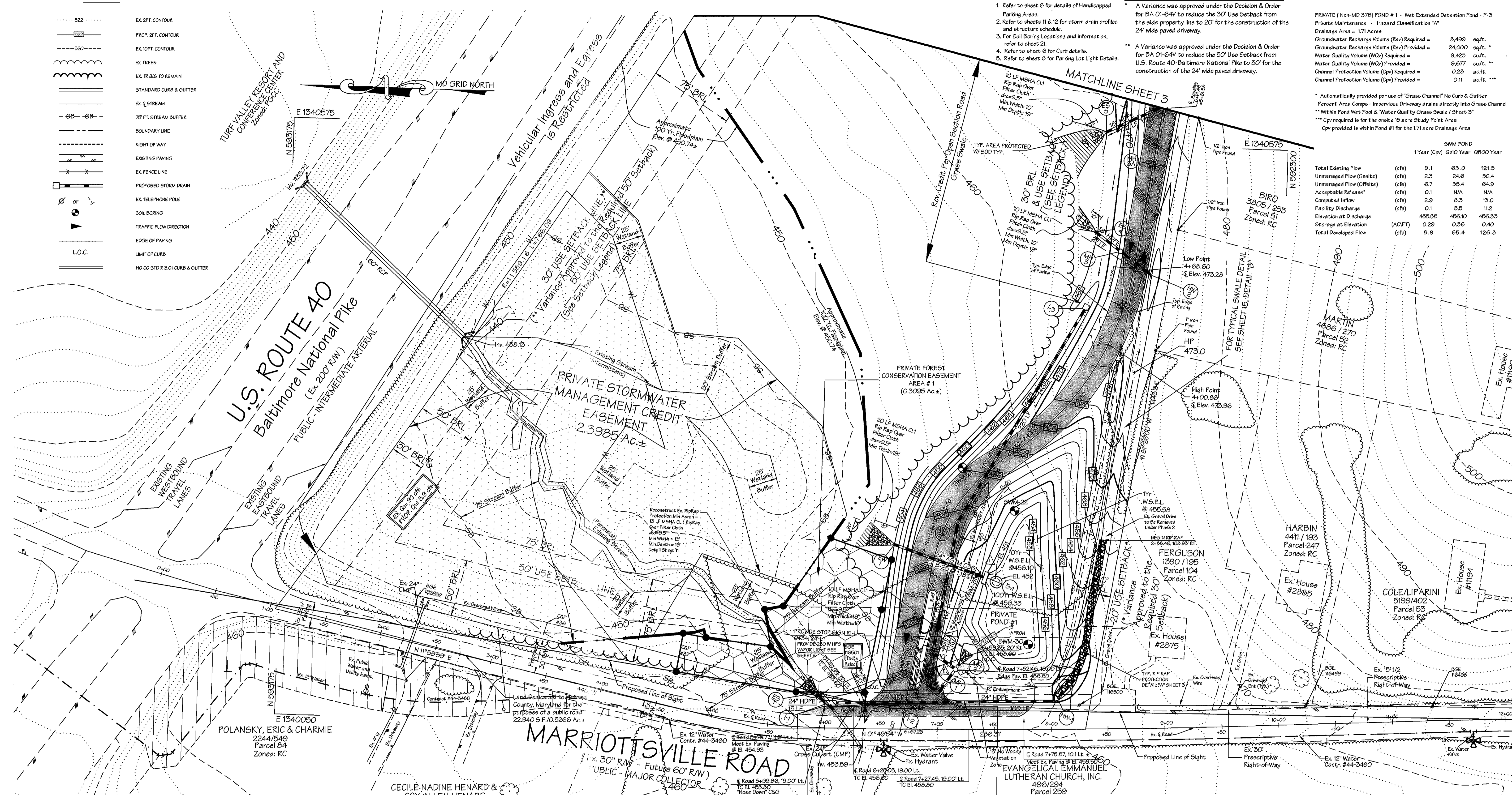
PRIVATE (Non-MD 378) POND #1 - Wet Extended Detention Pond - P-3
 Private Maintenance - Hazard Classification "A"
 Drainage Area = 1.71 Acres

Groundwater Recharge Volume (Rev) Required =	8,499	sq.ft.
Groundwater Recharge Volume (Rev) Provided =	24,000	sq.ft.
Water Quality Volume (WQV) Required =	9,423	cu.ft.
Water Quality Volume (WQV) Provided =	9,677	cu.ft.
Channel Protection Volume (CpV) Required =	0.28	ac.ft.
Channel Protection Volume (CpV) Provided =	0.11	ac.ft.

* Automatically provided per use of "Grass Channel" No Curb & Gutter
 Percent Area Comp - Impervious Driveway drains directly into Grass Channel
 ** Within Pond Wet Pool & "Water Quality Grass Swale / Sheet 3"
 *** CpV required is for the onsite 15 acre Study Point Area
 CpV provided is within Pond #1 for the 1.71 acre Drainage Area

SWM POND

	1 Year (CpV)	5 Year (CpV)	10 Year (CpV)
Total Existing Flow (cfs)	9.1	63.0	121.5
Unmanaged Flow (Onsite) (cfs)	2.5	24.6	50.4
Unmanaged Flow (Offsite) (cfs)	6.7	35.4	64.9
Acceptable Release* (cfs)	0.1	N/A	N/A
Computed Inflow (cfs)	2.9	8.3	15.0
Facility Discharge (cfs)	0.1	5.5	11.2
Elevation at Discharge (AOFT)	455.58	456.10	456.33
Storage at Elevation (AOFT)	0.29	0.26	0.40
Total Developed Flow (cfs)	8.9	65.4	126.3



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Dennis Borzetti MD, SF
 HOWARD COUNTY HEALTH OFFICER
 7-17-03 DATE

PAVING LEGEND HO. CO. R 2.01

P-1 Paving Section

P-2 Paving Section

Easement Legend

- Stormwater Management Credit Easement
- Forest Conservation Easement

ENGINEER'S CERTIFICATE

I certify that this plan for proposed stormwater management represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the standards of the Howard Soil Conservation District. I have notified the appropriate agencies and a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the project.

BRUCE D. BROWN
 REGISTERED PROFESSIONAL ENGINEER
 6/25/03 DATE

DEVELOPER'S CERTIFICATE

We certify that all development and/or construction will be in accordance with 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 engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the project. I will also authorize periodic inspections by Howard Soil Conservation District.

[Signature]
 6/25/03 DATE

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	36° 11'50"	121.76'	64.46'	S57°42'01"E - 118.45'
Driveway - 2+66.54 - 4+71.56	250.00'	22° 55'06"	205.02'	108.67'	S57°56'22"E - 139.33'

Centerline Coordinates

Station	Northing	Easting
Driveway Station 0+00.00	592623.80	1340054.79
Driveway Station 1+44.78	592601.04	1340197.77
Driveway Station 2+66.54	592537.74	1340297.89
Driveway Station 4+71.56	592431.94	1340466.82

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 7/11/03 DATE

[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT
 7/22/02 DATE

[Signature]
 DIRECTOR
 7/24/02 DATE

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

[Signature]
 7/8/02 DATE

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

[Signature]
 7/8/03 DATE

ENGINEER'S CERTIFICATE

I certify that this plan for proposed stormwater management represents a practical and workable plan for the site conditions. This plan was prepared in accordance with the standards of the Howard Soil Conservation District. I have notified the appropriate agencies and a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the project.

[Signature]
 REGISTERED PROFESSIONAL ENGINEER
 6/25/03 DATE

DEVELOPER'S CERTIFICATE

We certify that all development and/or construction will be in accordance with 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 engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the project. I will also authorize periodic inspections by Howard Soil Conservation District.

[Signature]
 6/25/03 DATE

NOTE: 1. REFER TO SHEET 13 FOR A 1"=20', DETAILED PLAN OF THE DRIVEWAY & MARRIOTTVILLE ROAD INTERSECTION 2. MARRIOTTVILLE ROAD IMPROVEMENTS SHALL BE IN CONFORMANCE WITH HOWARD COUNTY DETAIL R 6.08 & R 10.01 SEE SHEET B

REVISIONS

No.	Date	Description
1	11/2003	REVISE STORM DRAIN MH-2B-ES-2
2		REVISE S-1 STRUCTURE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Water Code J02	Sewer Code N/A			

LDE, INC.
 9250 Rumsay Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S.
 DRAWN: J.L.M., K.B.W.
 CHECKED: B.D.B.
 DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L-4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WF 03-06, F 03-96

DATE: 6/2003

OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 2 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05

NOTES:

1. Refer to sheet G for details of Handicapped Parking Area Details
2. Refer to sheets 11 & 12 for storm drain profiles and structure schedule.
3. Refer to sheet G for Standard Curb Details.
4. Refer to sheet G for Parking Lot Light Details.
5. The floor elevation is lower than the outside ground elevations therefore foundation waterproofing is required where shown hereon.
6. Bituminous Curb to be Transitioned to Conc., Curb & Gutter @ all inlets.
7. Roof Leader Collection Pipe Profiles ARE LOCATED ON SHEET 25.

"BOARD OF APPEALS - SETBACK LEGEND"

- A Variance was approved under the Decision & Order for BA 01-64V to reduce the 30' Use Setback from the side property line to 20' for the construction of the 24' wide paved driveway.
- A Variance was approved under the Decision & Order for BA 01-64V to reduce the 50' Use Setback from U.S. Route 40-Baltimore National Pike to 30' for the construction of the 24' wide paved driveway.

Easement Legend

	Stormwater Management Credit Easement
	Forest Conservation Easement

HARBIN
4294 / 452
Parcel 204
Zoned: RC

BRANTWOOD LLC
4987 / 674
Parcel 96
Zoned: RC

HARBIN
4294 / 452
Parcel 204
Zoned: RC

LEGEND

- EX. 2FT. CONTOUR
- PROP. 2FT. CONTOUR
- EX. 10FT. CONTOUR
- EX. TREES
- EX. TREES TO REMAIN
- STANDARD CURB & GUTTER
- EX. G. STREAM
- 75' FT. STREAM BUFFER
- BOUNDARY LINE
- RIGHT OF WAY
- EXISTING PAVING
- EX. FENCE LINE
- PROPOSED STORM DRAIN
- EX. TELEPHONE POLE
- COMB. CURB & GUTTER R. 3.01
- BITUMINOUS CURB R. 3.03
- PROPOSED EDGE OF PAVING
- SPOT ELEVATION PAVING
- PROPOSED BUILDING ENTRANCE
- NUMBER OF PROPOSED PARKING SPACES
- TRAFFIC FLOW DIRECTION
- PROP. WATER LINE
- PROP. FIRE HYDRANT
- PROP. LIGHT
- LIMIT OF CURBING

U.S. ROUTE 40
Baltimore National Pike
EX. 200' R.W.
PUBLIC - INTERMEDIATE ARTERIAL

P/O PRIVATE FOREST CONSERVATION
EASEMENT AREA #5 AND STORMWATER
MANAGEMENT CREDIT EASEMENT
1.053 AC ±
Vehicle Ingress & Egress is Restricted



ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the regulations of the Howard Soil Conservation District. I have notified the developer that 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 the engineer to make any necessary amendments to this plan.

Signature of Engineer: *David D. Korman* Date: 6/25/03

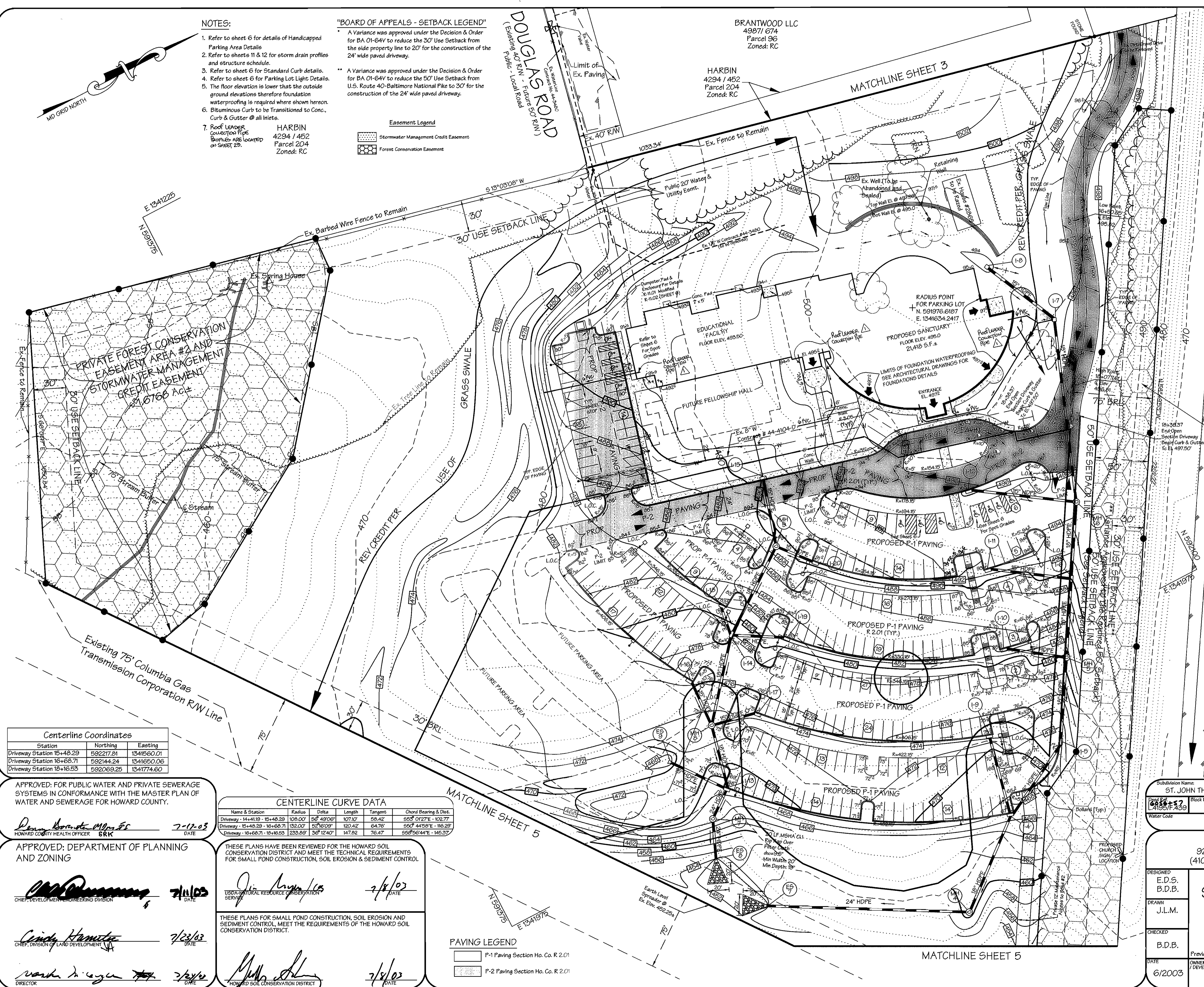
DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as 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 construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize the engineer to make any necessary amendments to this plan.

Signature of Developer: *[Signature]* Date: 6/25/03

REVISIONS

No.	Date	Description
1	11/2003	ADD ROOF DRAIN COLLECTION PIPES



Centerline Coordinates

Station	Northing	Easting
Driveway Station 15+48.29	592217.81	1341560.01
Driveway Station 16+68.71	592144.24	1341650.06
Driveway Station 18+16.53	592069.25	1341774.60

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 14+11.19 - 15+48.29	109.00	56° 49' 00"	107.10	59.42	S63° 01' 27" E - 102.77
Driveway - 15+48.29 - 16+68.71	132.00	52° 18' 00"	120.42	84.76	S50° 44' 38" E - 116.29
Driveway - 16+68.71 - 18+16.53	233.89	36° 12' 00"	147.82	76.47	S58° 50' 44" E - 146.37

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Donna Borate MD, PE 7-11-03
HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 7/24/03
DIRECTOR DATE

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

[Signature] 7/8/03
HOWARD SOIL CONSERVATION DISTRICT DATE

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

[Signature] 7/8/03
HOWARD SOIL CONSERVATION DISTRICT DATE

PAVING LEGEND

	P-1 Paving Section Ho. Co. R. 2.01
	P-2 Paving Section Ho. Co. R. 2.01

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH Sect./Area: Parcel No. 203

Prop. No. 0205-03	Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Water Code J02	Sewer Code N/A				

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

SITE DEVELOPMENT PLAN
ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

DESIGNED: E.D.S. B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/2003

SCALE: 1" = 40'
DRAWING: 4 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

F:\Landed Projects\K2051\LDHS\Map\51pgh.dwg, SDP 3 (4), 6/25/2003 6:26:18 AM

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 522 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. C/STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE

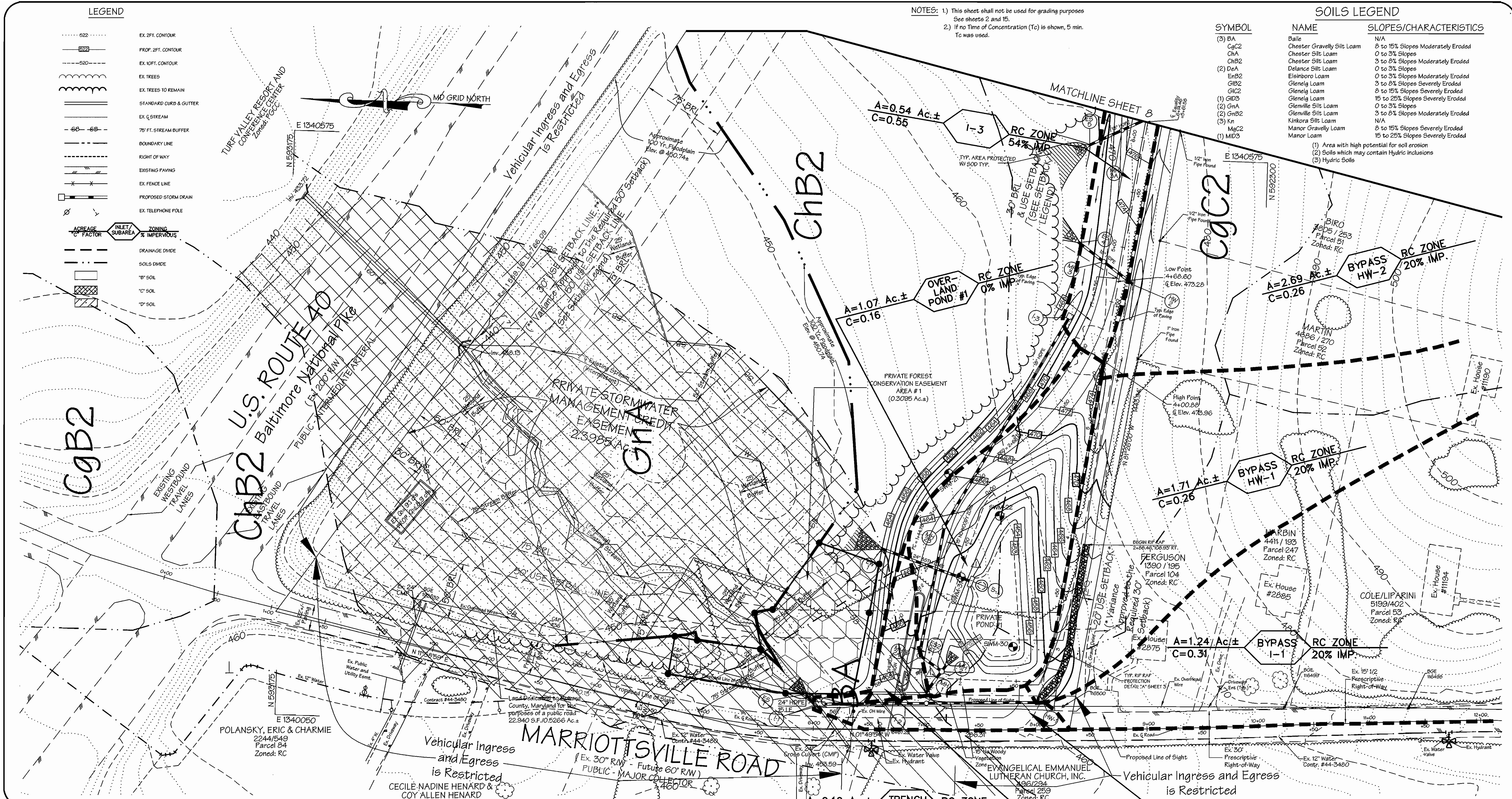
- ACREAGE ZONING INLET/SUBAREA % IMPERVIOUS
- DRAINAGE DIVIDE
- SOILS DIVIDE
- 1" SOIL
- 1" SOIL
- 1" SOIL

NOTES: 1) This sheet shall not be used for grading purposes. See sheets 2 and 15.
2) If no Time of Concentration (Tc) is shown, 5 min. Tc was used.

SOILS LEGEND

SYMBOL	NAME	SLOPES/CHARACTERISTICS
(3) BA	Baile	N/A
CgC2	Chester Gravelly Silt Loam	8 to 15% Slopes Moderately Eroded
ChA	Chester Silt Loam	0 to 3% Slopes
ChB2	Chester Silt Loam	3 to 8% Slopes Moderately Eroded
(2) DaA	Dalence Silt Loam	0 to 3% Slopes
EnB2	Elsinboro Loam	0 to 3% Slopes Moderately Eroded
GIB2	Glenelg Loam	3 to 8% Slopes Severely Eroded
GIC2	Glenelg Loam	8 to 15% Slopes Severely Eroded
(1) GID3	Glenelg Loam	15 to 25% Slopes Severely Eroded
(2) GmA	Glenville Silt Loam	0 to 3% Slopes
(2) GmB2	Glenville Silt Loam	3 to 8% Slopes Moderately Eroded
(3) Kk	Kinkora Silt Loam	N/A
MgC2	Manor Gravelly Loam	8 to 15% Slopes Severely Eroded
(1) MID3	Manor Loam	15 to 25% Slopes Severely Eroded

- (1) Area with high potential for soil erosion
- (2) Soils which may contain Hydric Inclusions
- (3) Hydric Soils



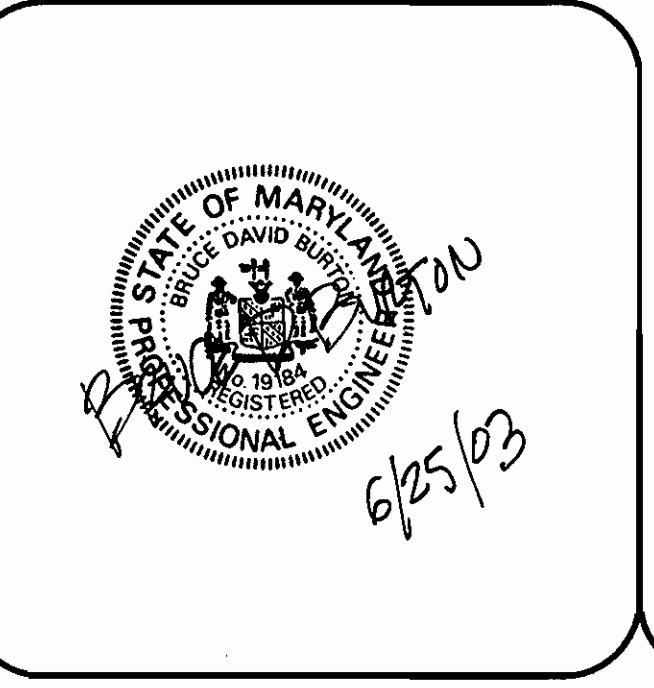
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
[Signature]
HOWARD COUNTY HEALTH OFFICER "SRK" 7-17-03 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 7/14/03 DATE
[Signature] 7/23/03 DATE
[Signature] 7/24/03 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
USDA NATURAL RESOURCE CONSERVATION SERVICE
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
I certify that this plan and the information and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not observed any violations of the requirements of the Howard Soil Conservation District.
[Signature] 6/25/03 DATE
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE
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 Approval Training Program for the Control of Sediment and Erosion before starting 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 with a copy of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
[Signature] 6/25/03 DATE
SIGNATURE OF DEVELOPER



Ingress & Egress Allowed @ Driveway Entrance
A=0.10 Ac.± TRENCH INLET I-2 RC ZONE 80% IMP. C=0.74
A=0.10 Ac.± I-1 RC ZONE 100% IMP. C=0.87

REVISIONS

No.	Date	Description
1	11/2003	REVISE STORM DRAIN MR-2B - E52; REVISE S-1 STRUCTURE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Parcel No. 203	Water Code JO2	Sewer Code N/A			

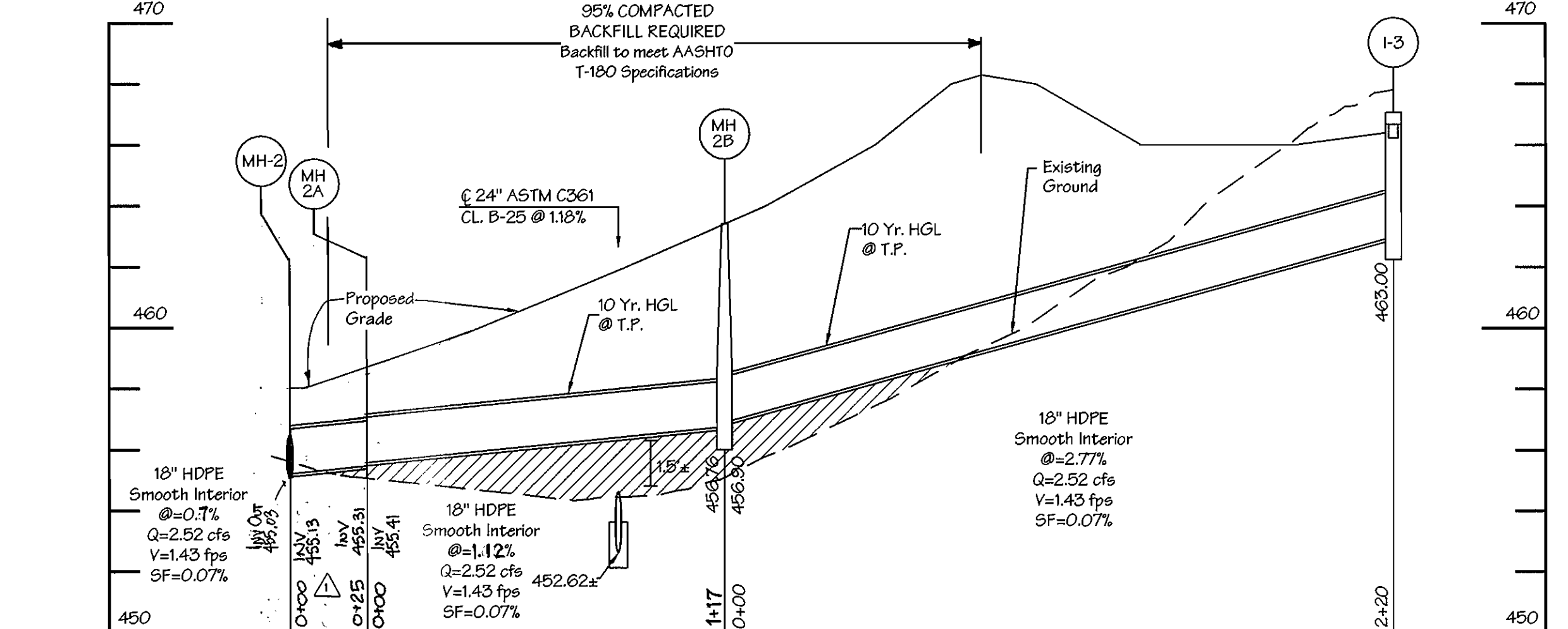
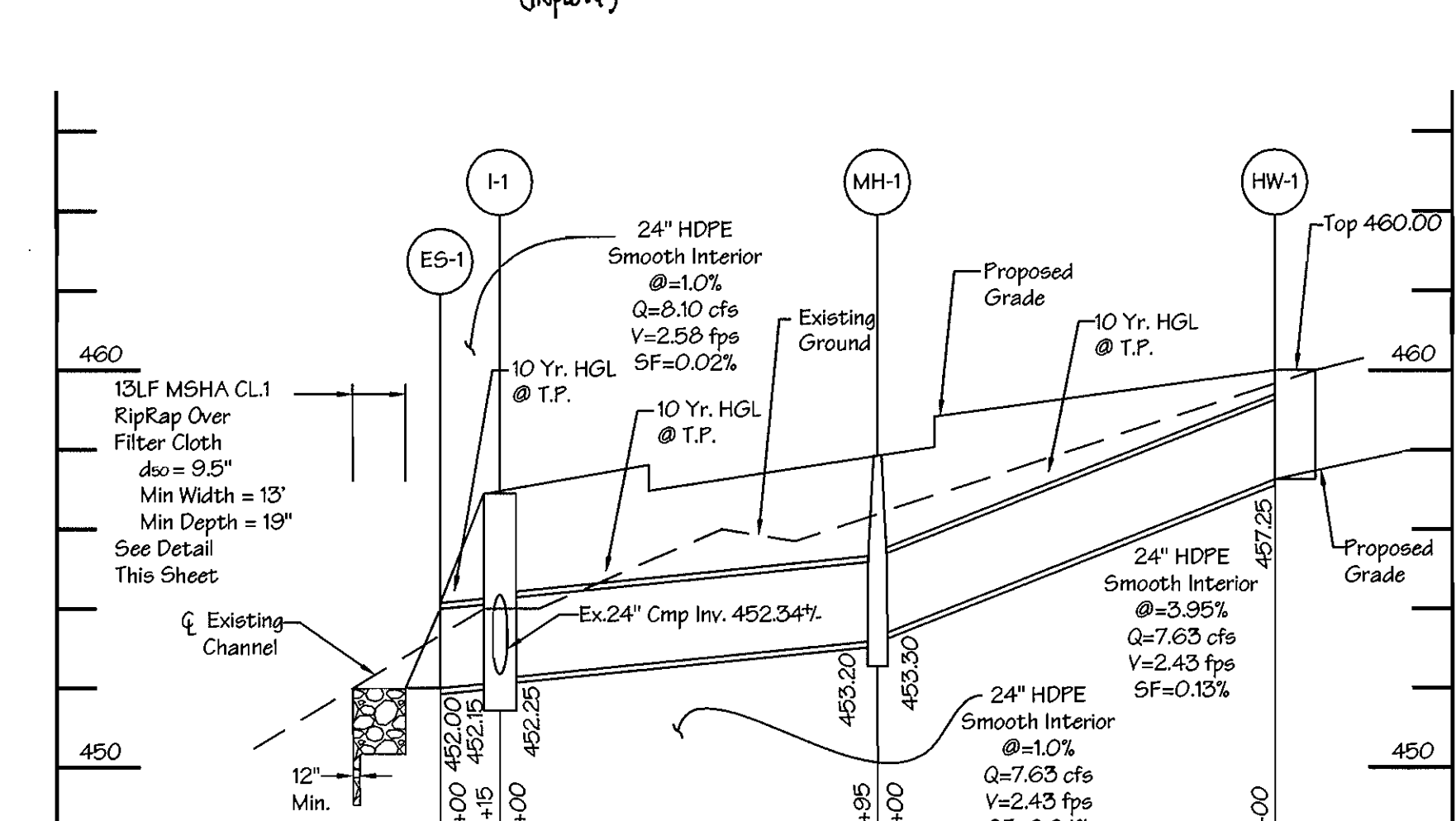
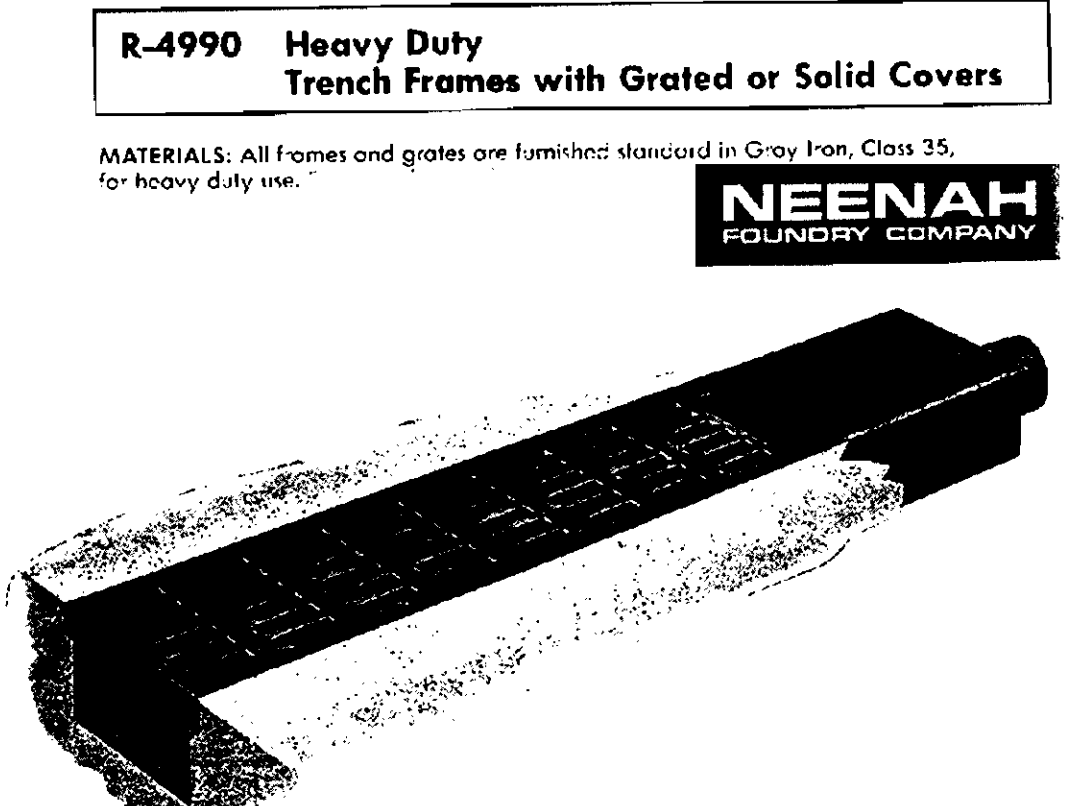
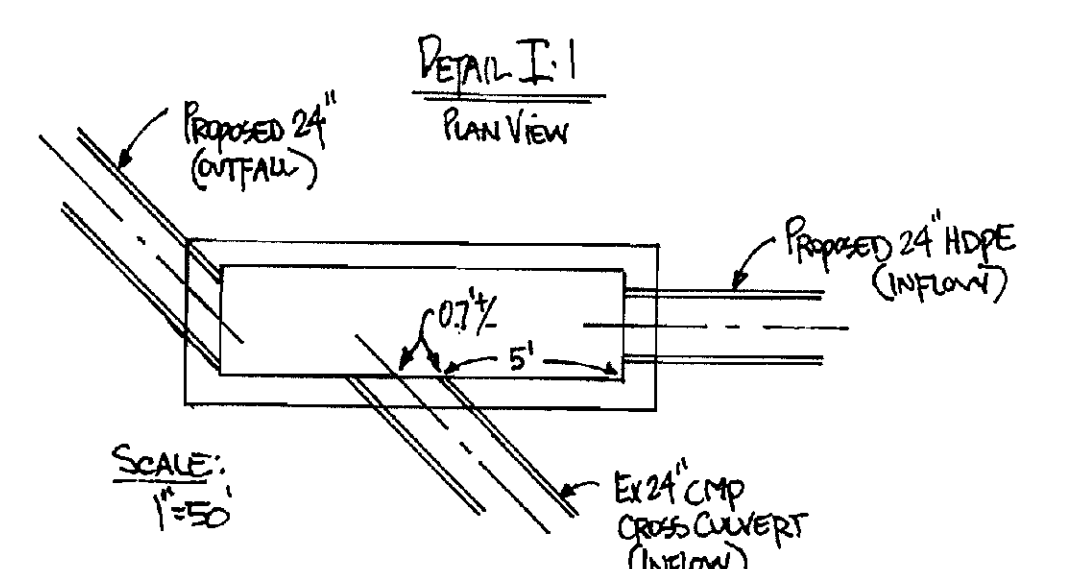
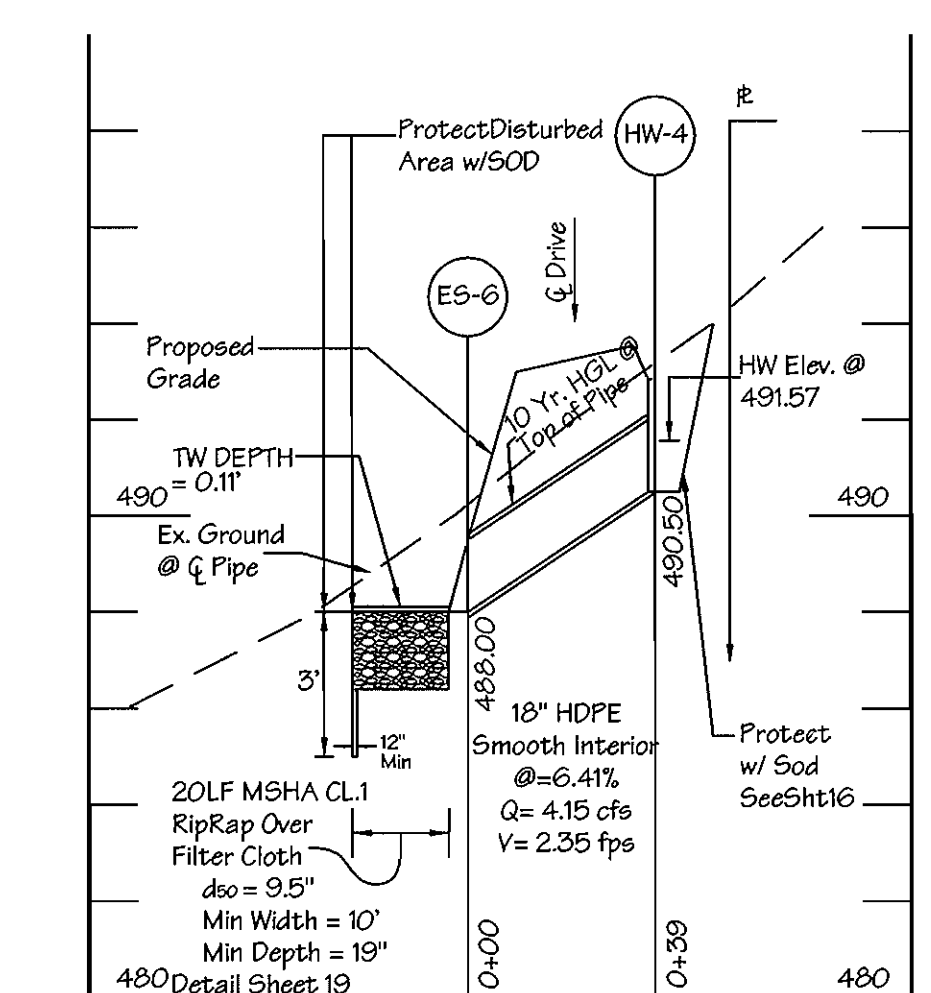
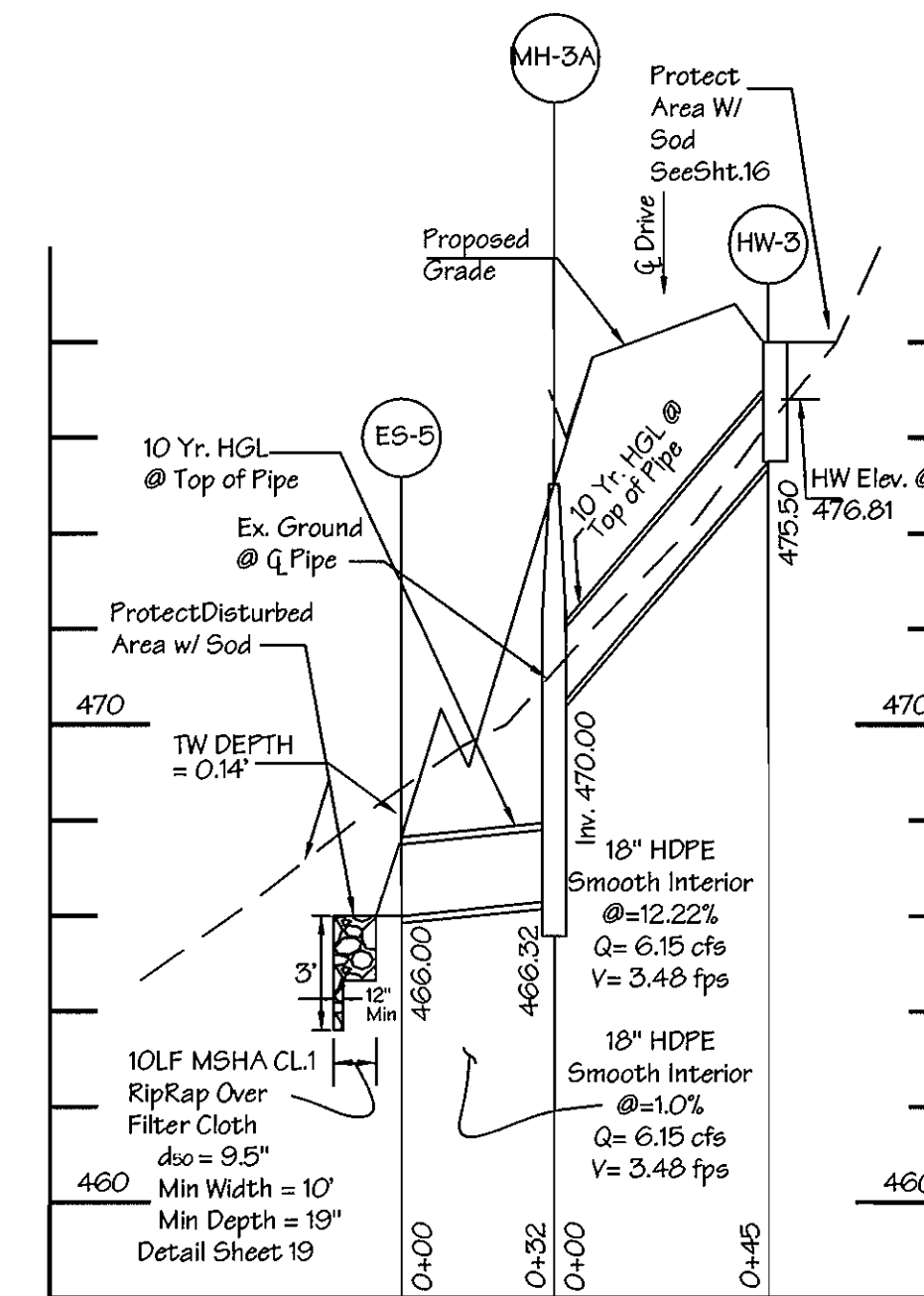
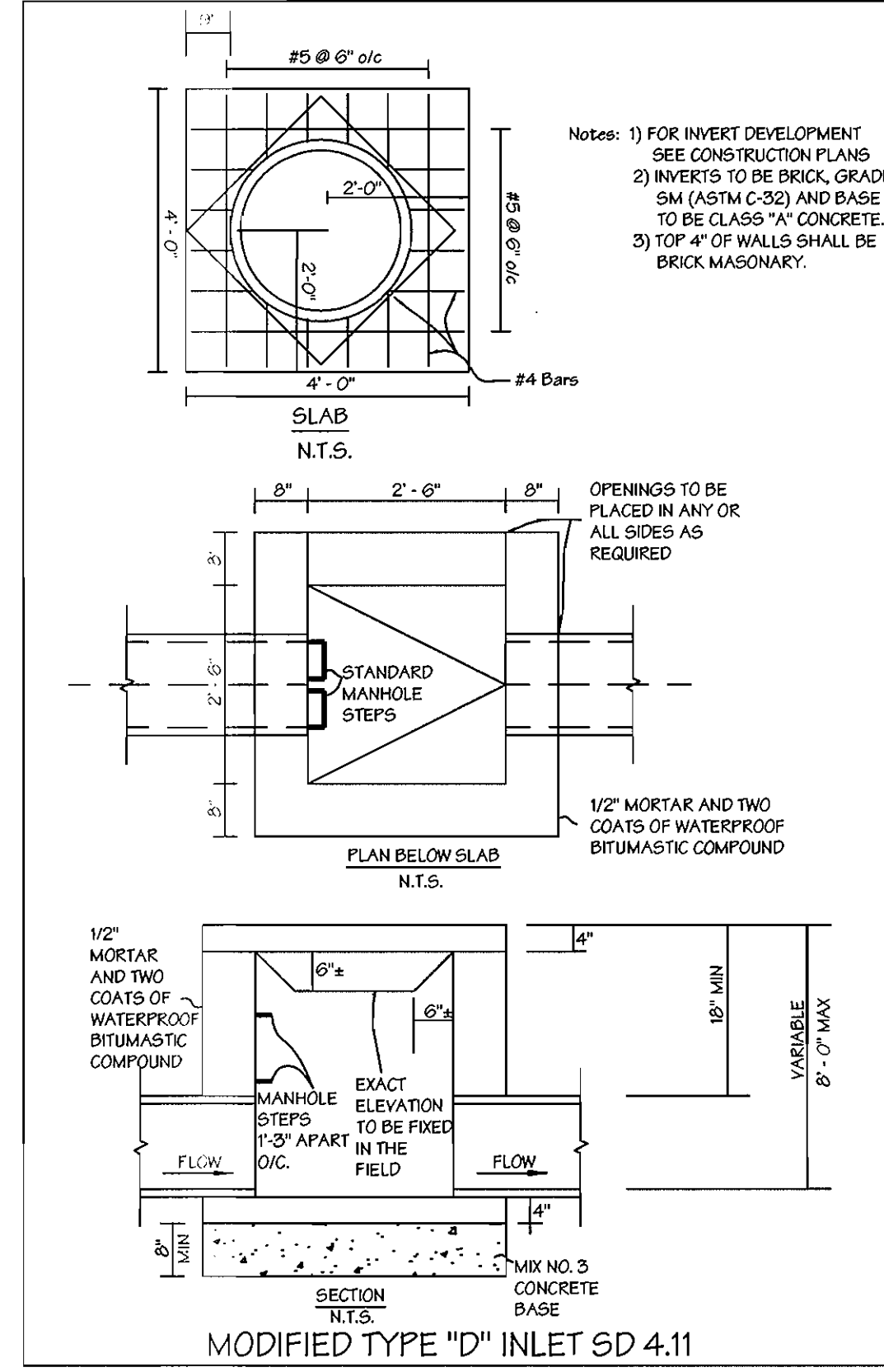
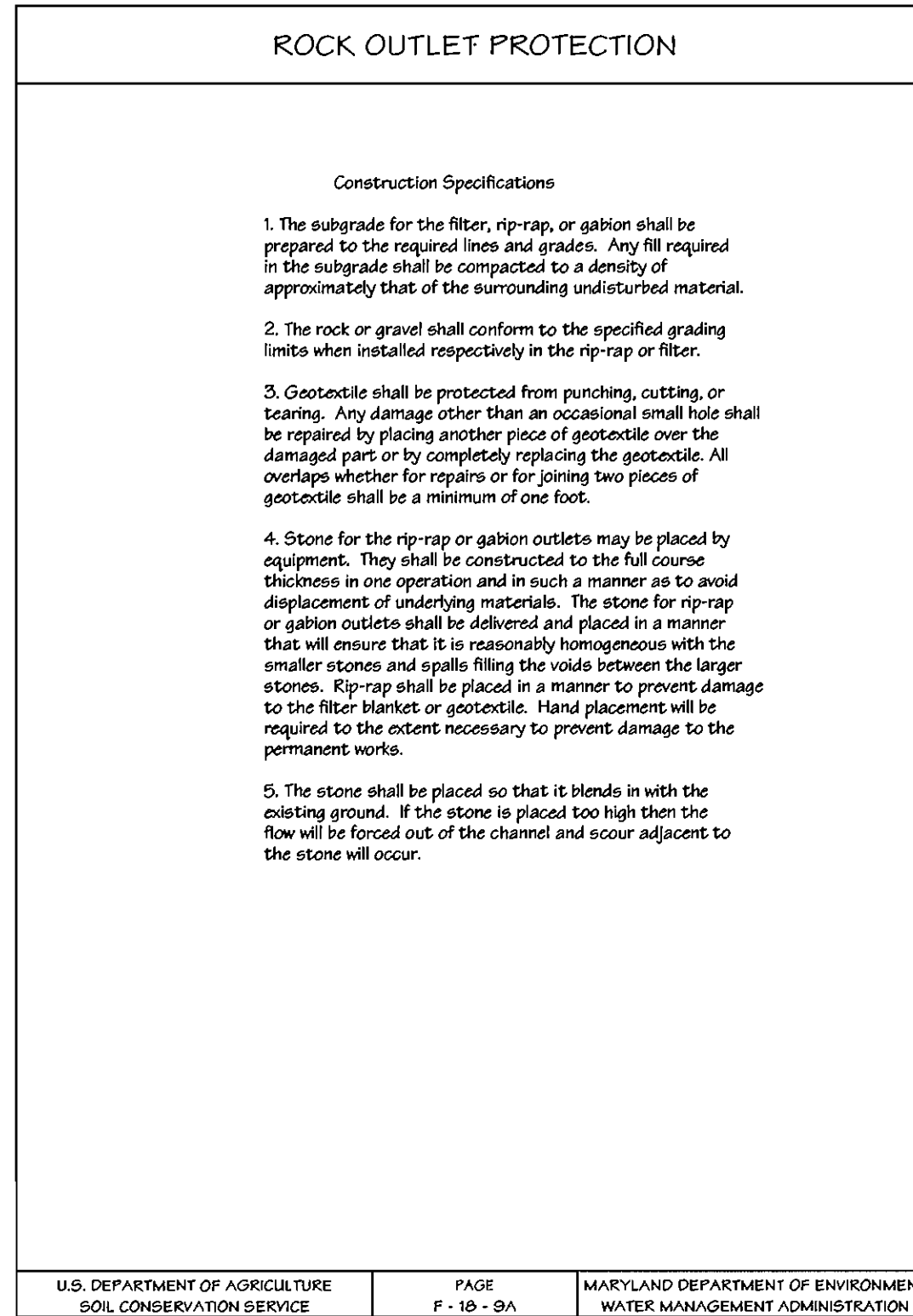
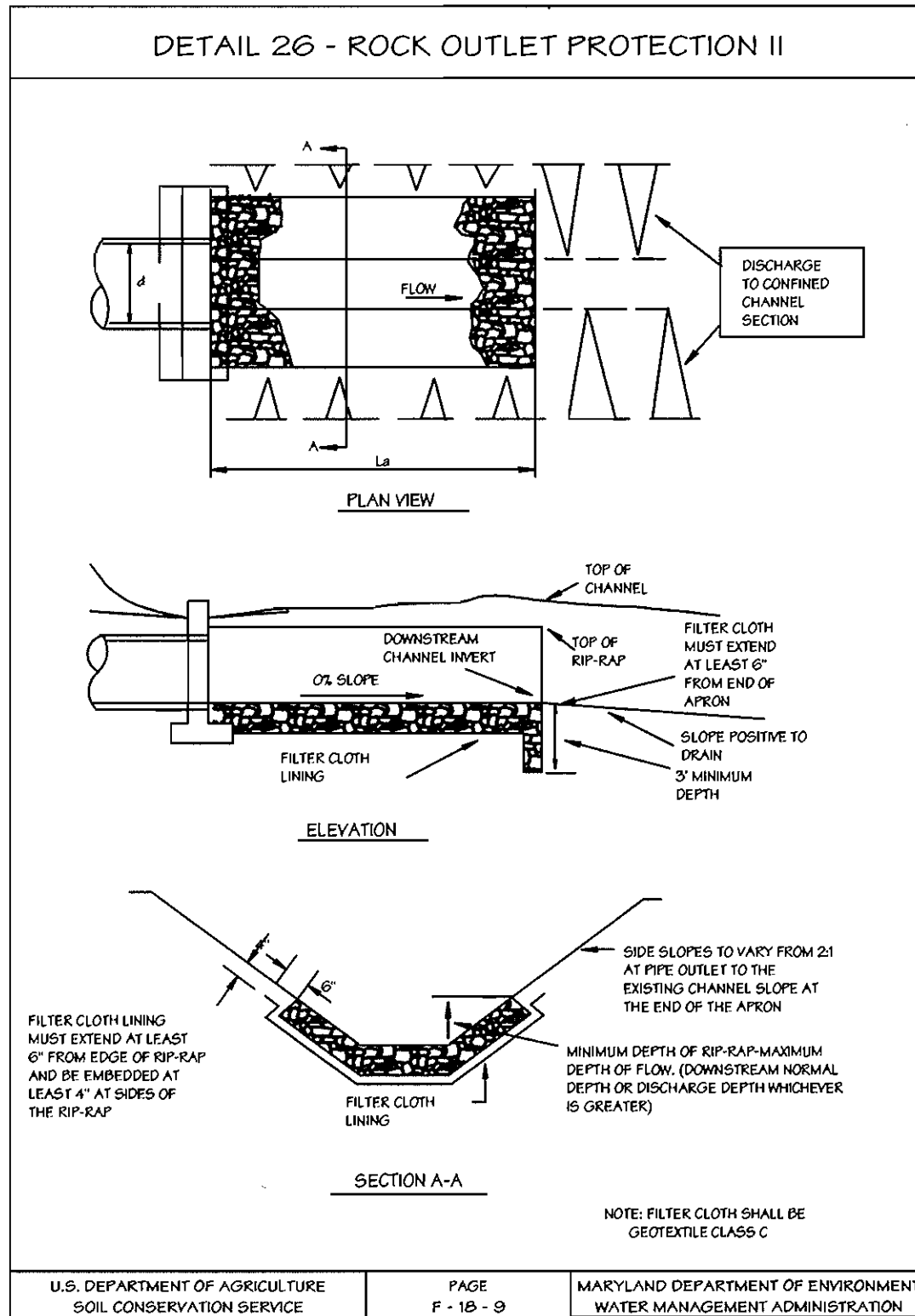
LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. J.L.M.
DRAWN: E.D.S. J.L.M.
CHECKED: B.D.B.
DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L. 4195/F. 439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96
OWNER/DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

SCALE: 1" = 40'
DRAWING: 7 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

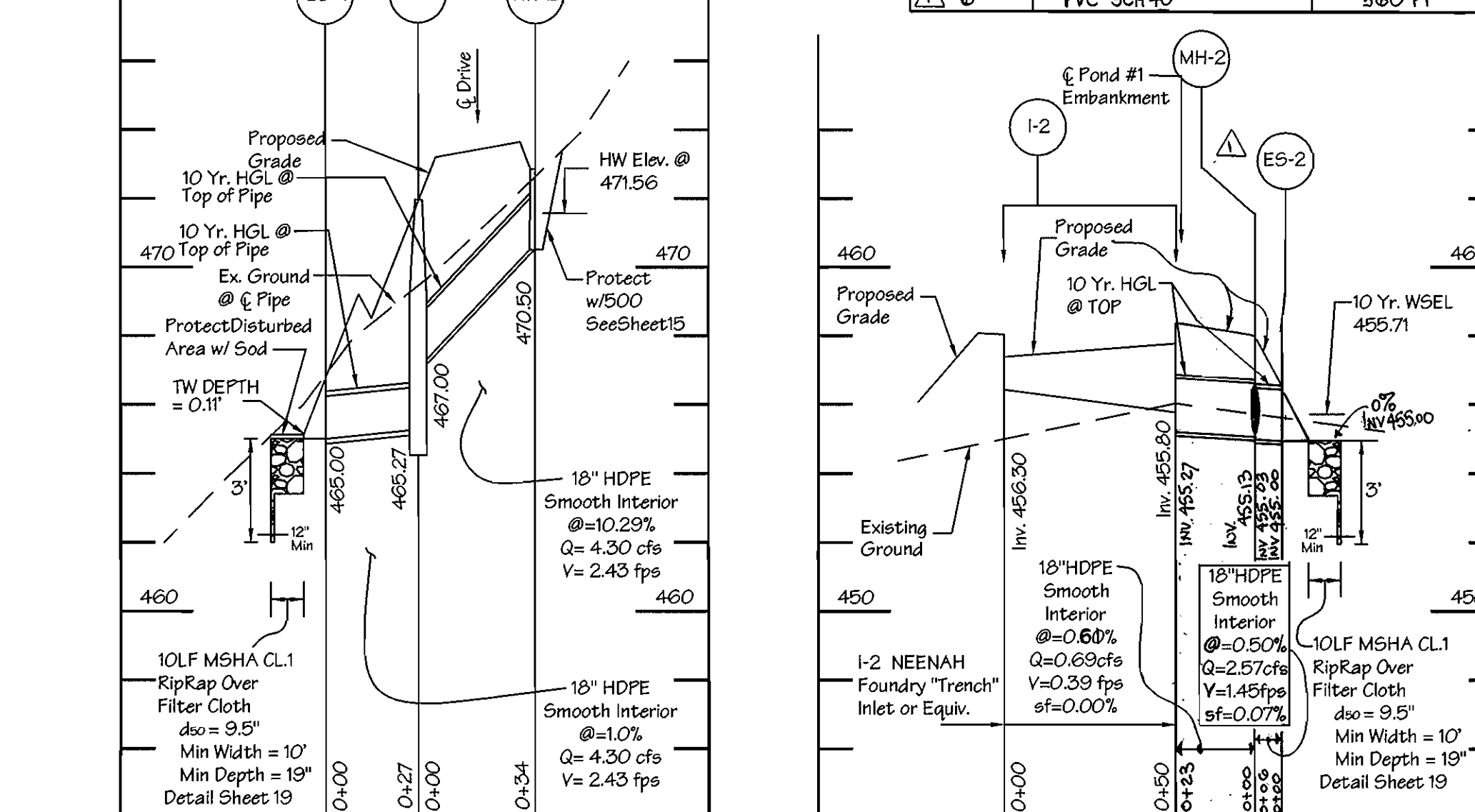


STRUCTURE SCHEDULE

Str. No.	Structure Type	Inv. In	Inv. Out	Top Elevation or Upper / Lower	Detail	Location	Remarks
I-1	A-10	452.25 / 452.25	452.15	456.00 / 455.80	SD-4.02	6+04.96 / 22.01 LT.	Plan View Detail This Sheet.
I-2	Trench	456.30	455.30 / 456.27	457.30 / 457.70	-	SEE PLAN	Neham Foundry or Equivalent
I-3	Type "D"	463.00	464.31	467.33	SD-4.11	4+24.10 / 31.24 LT.	THROAT UPSTREAM SIDE ONLY
I-4	A-5	459.81 / 462.18	459.71	467.90	SD-4.01	N591930.00 / E1342056.27	SUMP
I-5	A-5	464.91	464.81	472.00 / 471.90	SD-4.01	N591940.73 / E1342056.27	SUMP
I-6	A-5	463.00	462.90 / 463.73	469.30 / 469.60	SD-4.01	N591938.81 / E1341927.46	SUMP
I-7	Type "D"	458.60 / 458.50	458.25	469.30	SD-4.11	N592089.64 / E1341705.64	THROAT 4 SIDES
I-8	Type "D"	-	459.20	464.50	Mod. SD-4.11	N592056.20 / E1341632.58	THROAT 4 SIDES
I-9	A-5	-	464.75	475.80	SD-4.01	N591956.66 / E1342021.94	SUMP
I-10	A-5	-	473.20	485.80	SD-4.01	N591905.16 / E1341956.54	SUMP
I-11	A-5	-	483.30	484.30	SD-4.01	N591926.20 / E1341883.32	SUMP
I-12	A-5	-	480.70	486.50 / 486.36	SD-4.01	N591944.42 / E1341809.48	SUMP
I-13	A-5	462.58 / 464.50	462.08	469.30	SD-4.01	N591944.84 / E1341922.96	SUMP
I-14	A-5	473.60 / 473.85	473.50	479.40 / 478.60	SD-4.01	N591935.87 / E1341929.06	SUMP
I-15	A-5	464.85	464.75	480.90 / 480.60	SD-4.01	N591973.38 / E134171.45	SUMP
I-16	A-5	-	471.90	477.00	SD-4.01	N591923.54 / E1341846.85	SUMP
I-17	A-5	-	470.60	475.80	SD-4.01	N591973.08 / E1341904.07	SUMP
I-18	A-5	-	474.41	483.80	SD-4.01	N591950.54 / E1341799.21	SUMP
I-19	A-5	-	474.88	484.00	SD-4.01	N591922.02 / E1341853.73	SUMP
I-20	A-5	-	484.40	491.60	SD-4.01	N591976.71 / E1341803.05	SUMP
MH-1	Manhole	453.30	453.20	457.60	G-5.12	7+01.68 / 23.82 LT.	
MH-2	Manhole	455.13	455.03	468.35	G-5.12	0+60.66 / 3750 RT.	
MH-2A	Manhole	455.41	455.31	457.80	G-5.12	0+71.31 / 15' RT.	
MH-2B	Manhole	456.90	456.76	463.50	G-5.12	1+91.88 / 8.06 RT.	
MH-3	Manhole	467.00	466.27	473.00	G-5.12	4+84.17 / 14.28 LT.	
MH-3A	Manhole	470.00	466.32	474.00	G-5.12	6+03.18 / 19.38 LT.	
MH-4	Manhole	458.48	462.94	460.00	G-5.12	5+93.74 / 28.65 LT.	
MH-5	Manhole	419.20 / 419.80	473.90	480.00	G-5.12	N591993.40 / E134199.88	
MH-6	Manhole	466.93 / 468.67	465.27	465.20	G-5.12	N592028.97 / E1341845.85	
MH-7	Manhole	458.58 / 458.58	458.48	468.80	G-5.12	N591958.81 / E1341972.81	
MH-8	Manhole	466.37 / 468.30	466.27	473.15	G-5.12	N591928.46 / E1341894.41	
MH-9	Manhole	483.60 / 483.60	482.70	489.80	G-5.12	N591959.74 / E1341773.58	
ES-1	HDPE End Section	-	452.00	454.00	N/A	5+93.74 / 28.65 LT.	Typical HDPE Flare End Section
ES-2	HDPE End Section	-	456.00	456.50	N/A	0+65.67 / 39.93 RT.	Typical HDPE Flare End Section
ES-4	HDPE End Section	-	466.00	466.50	N/A	4+39.96 / 31.11 LT.	Typical HDPE Flare End Section
ES-5	HDPE End Section	-	466.00	467.50	N/A	5+38 / 37.0 LT.	Typical HDPE Flare End Section
ES-6	HDPE End Section	-	468.00	469.50	N/A	10+53.33 / 21.5 LT.	Typical HDPE Flare End Section
ES-7	HDPE End Section	-	462.00	464.00	N/A	N591923.90 / E1341773.83	Typical HDPE Flare End Section
ES-8	HDPE End Section	-	462.00	464.00	N/A	N591962.25 / E1342072.86	Typical HDPE Flare End Section
ES-9	HDPE End Section	-	466.71	467.96	N/A	N591978.07 / E1341908.26	Typical HDPE Flare End Section
HW-1	"E" Headwall	457.25	-	460.00	SD-5.21	8+02.65 / 24.61 LT.	
HW-2	"C" Headwall	470.50	-	472.75	SD-5.21	4+15.67 / 16.00 RT.	
HW-3	"E" Headwall	475.50	-	477.75	SD-5.21	5+75 / 16.00 RT.	
HW-4	"C" Headwall	488.00	-	492.75	SD-5.21	10+53.33 / 16.00 RT.	
S-1	Structure	453.00	453.00	458.00	Sht 22	1+45.48 / 48.23 RT.	
EW-1	End Section	-	452.00	454.00	SD-5.51	1+55.75 / 36.75 LT.	
S-2	SWM RISER	423.70	423.60	431.33	Sht 23	N591972.10 / E1342460.27	
EW-2	"A" Headwall	-	423.27	426.27	SD-5.11	N591959.74 / E1342029.30	

PIPE SCHEDULE

Size	Class	Total Length
15"	HDPE Smooth Interior	747 FT
18"	HDPE Smooth Interior	1406 FT
24"	HDPE Smooth Interior	468 FT
6"	PVC SCR40	560 FT



BYPASS STORM DRAIN SYSTEM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

7/11/03

7/23/02

7/24/02

ENGINEER'S CERTIFICATE

6/25/03

DEVELOPER'S CERTIFICATE

6/25/03

REVISIONS

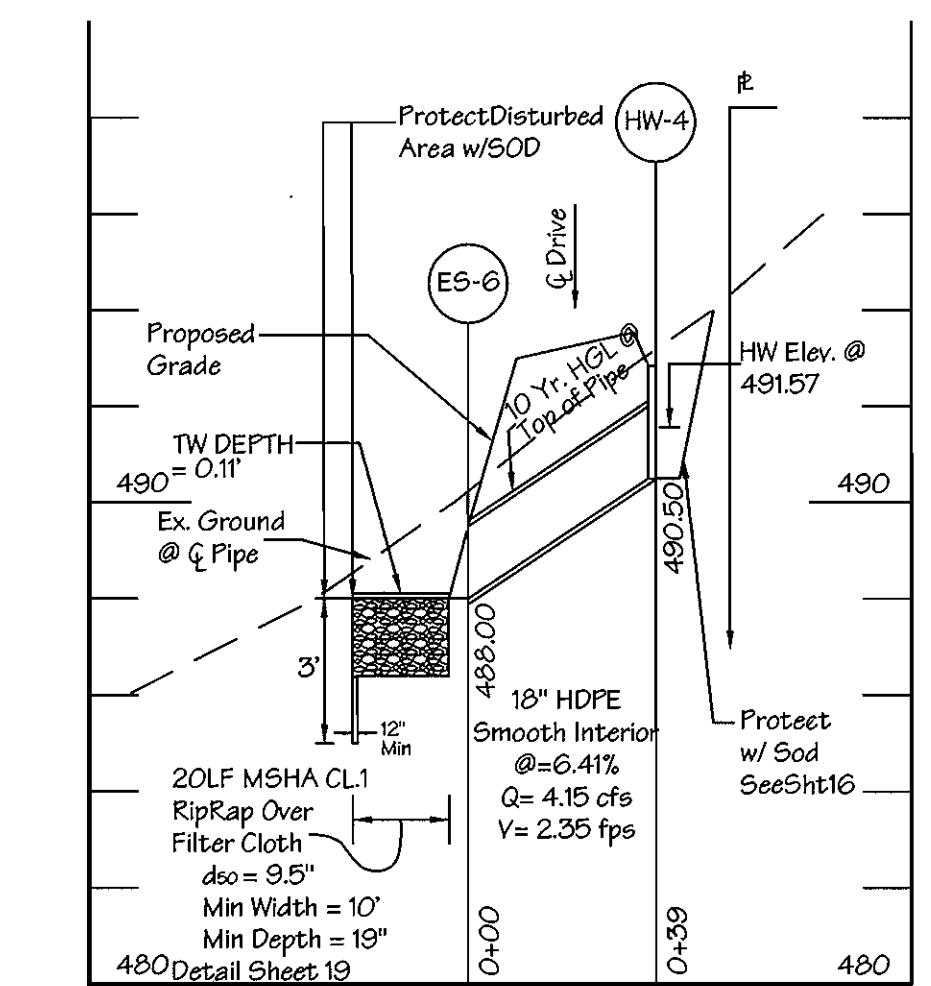
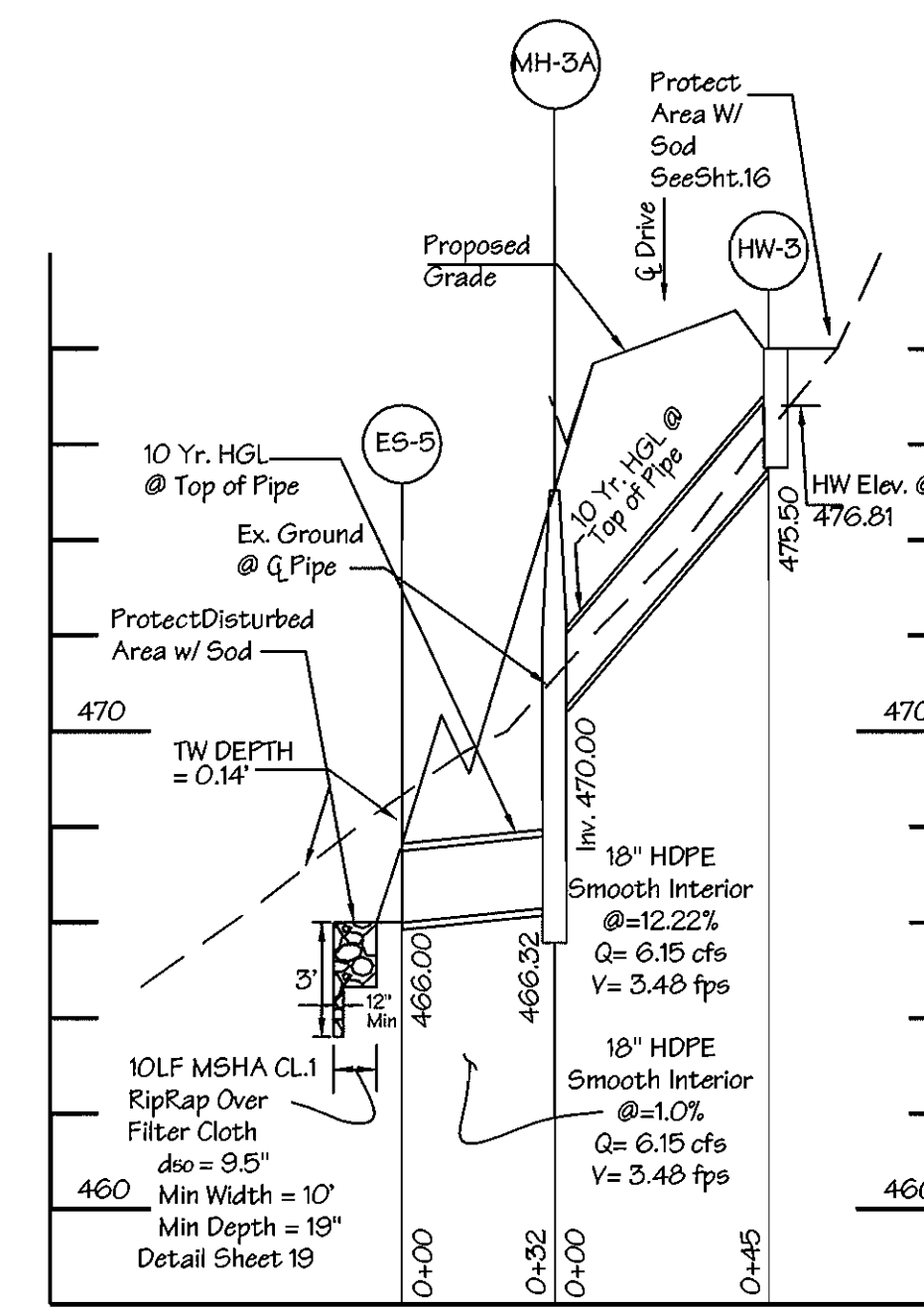
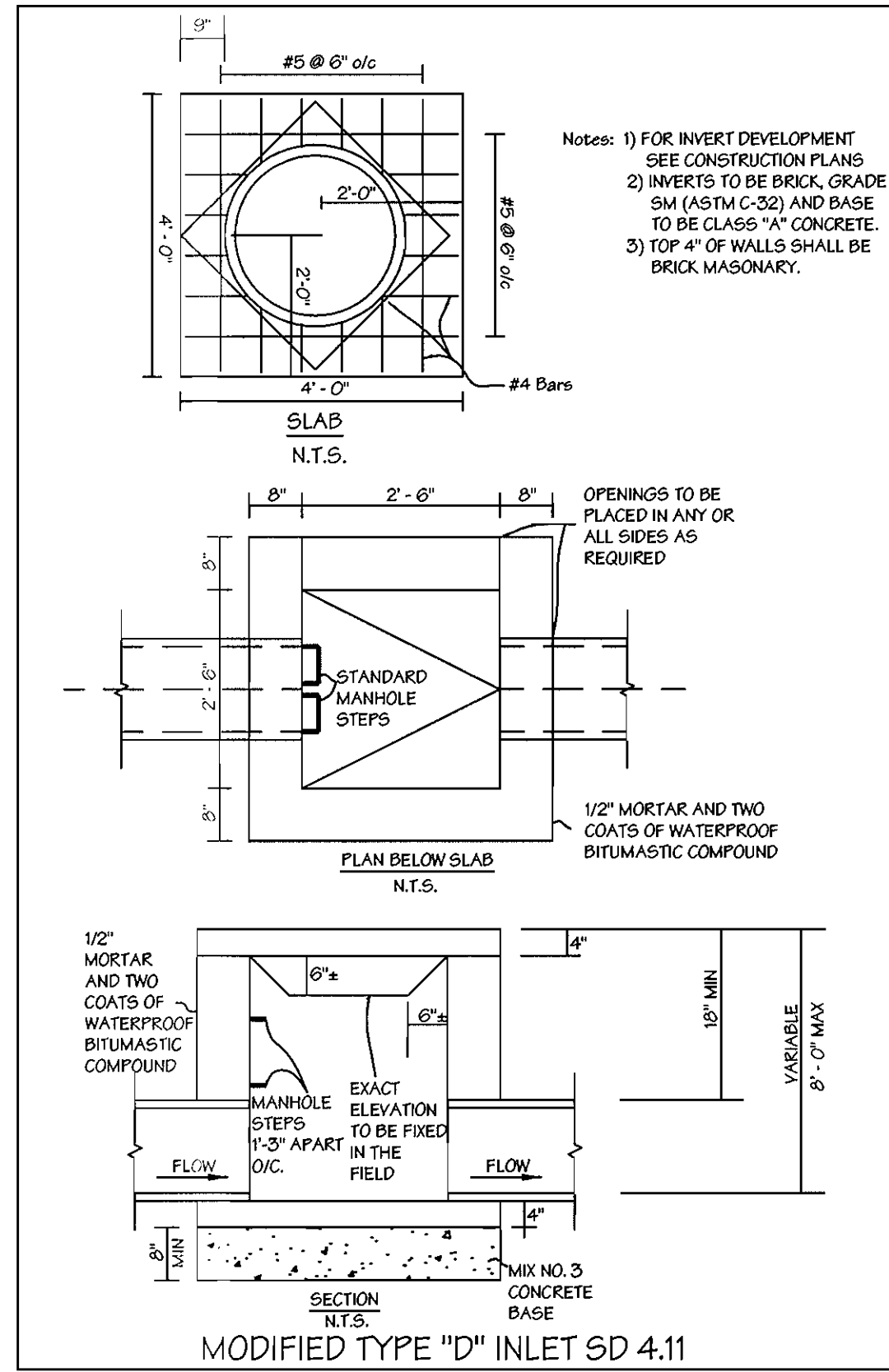
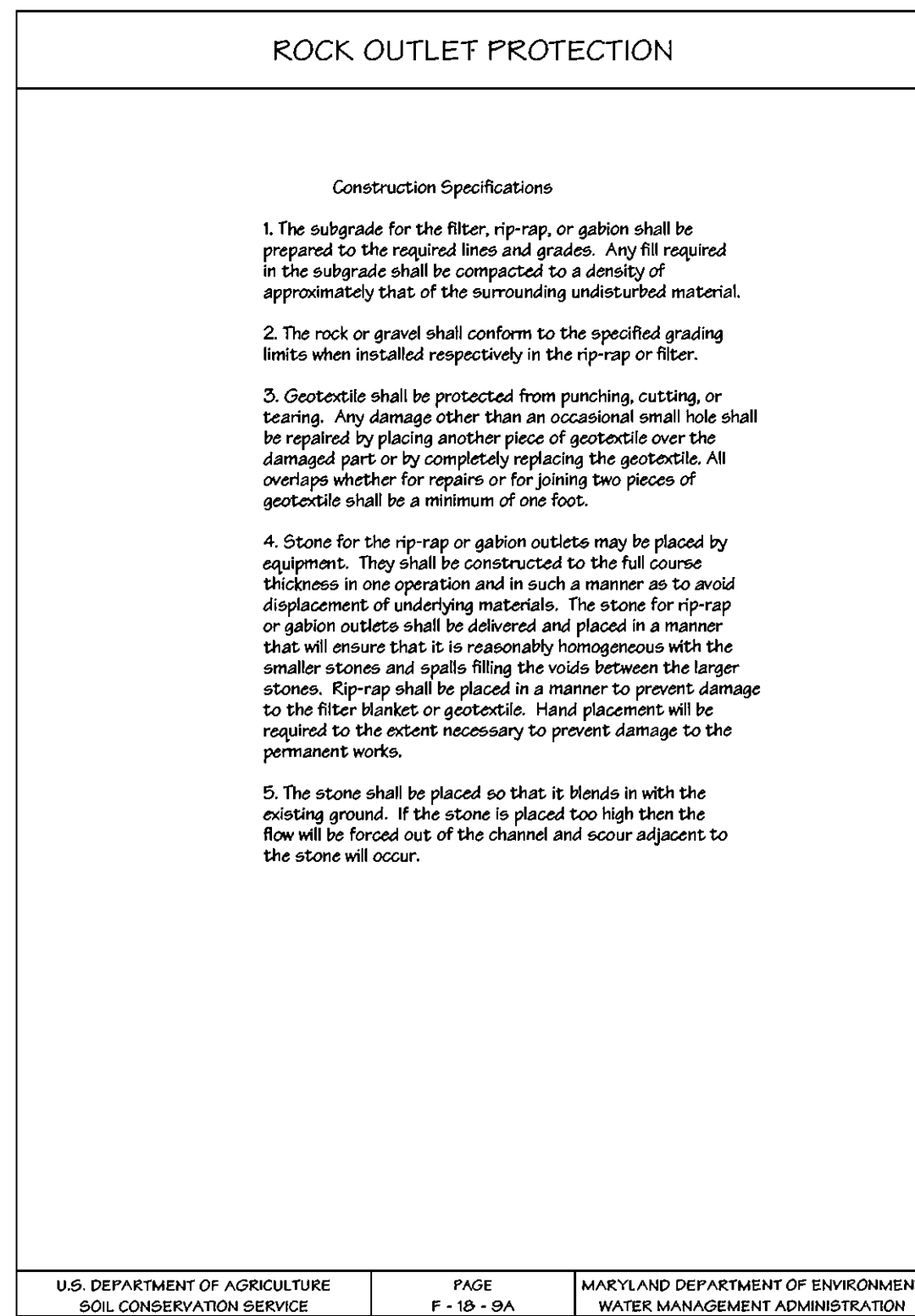
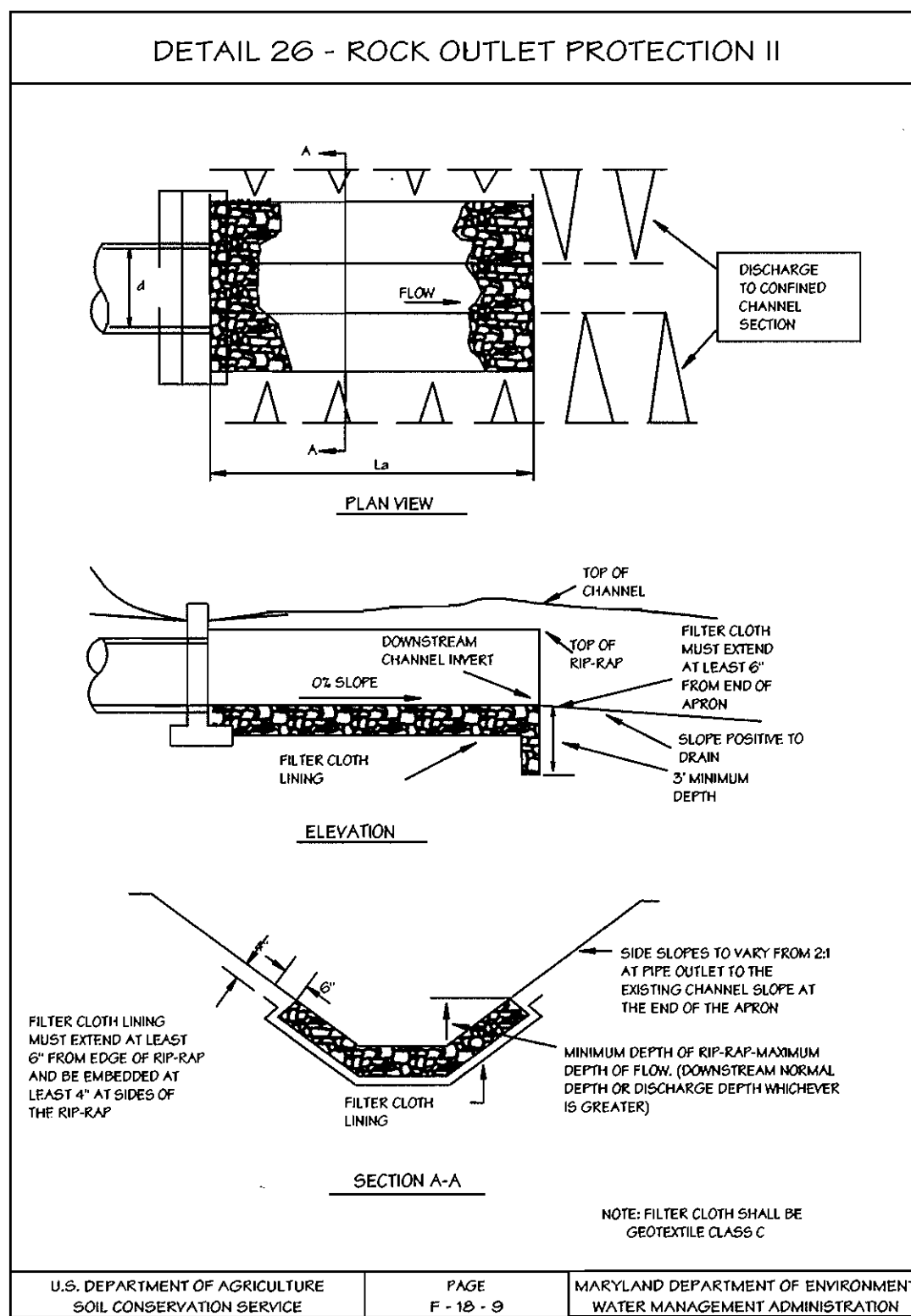
No.	Date	Description
1	11/2003	REVISE STORM PROFILE M28 THRU ES-2, REVISE SCHEDULES

ST. JOHN THE EVANGELIST BAPTIST CHURCH

8910 Old Annapolis Road / MD. Route 108 Columbia, Maryland 21045

SDP 02-05

File Path: E:\2003\JOHNSTON\STORM PROJ\11_03\SDP02-05.dwg, STORM PROJ (11_03) 6/25/2003 4:05:54 PM

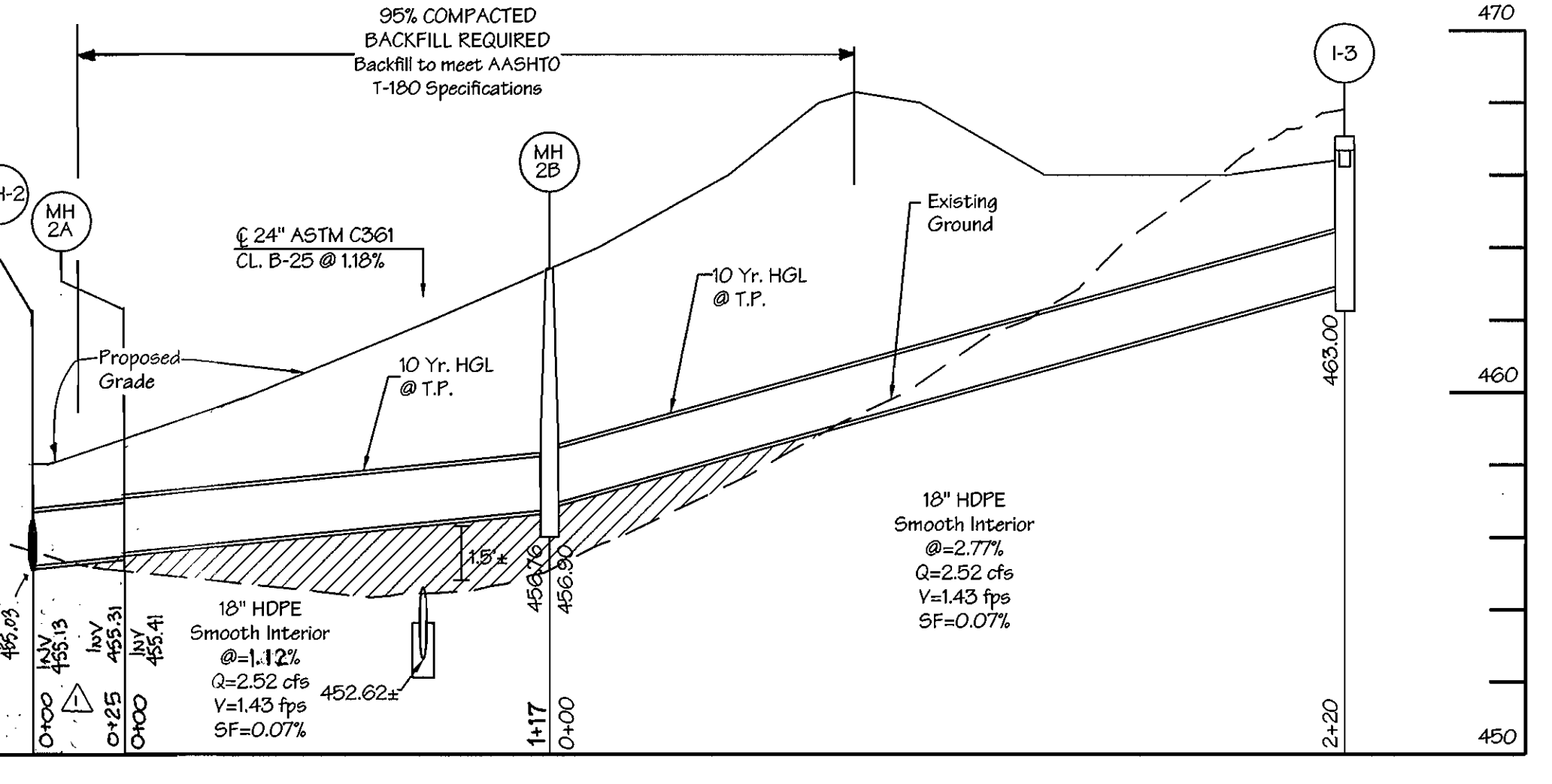
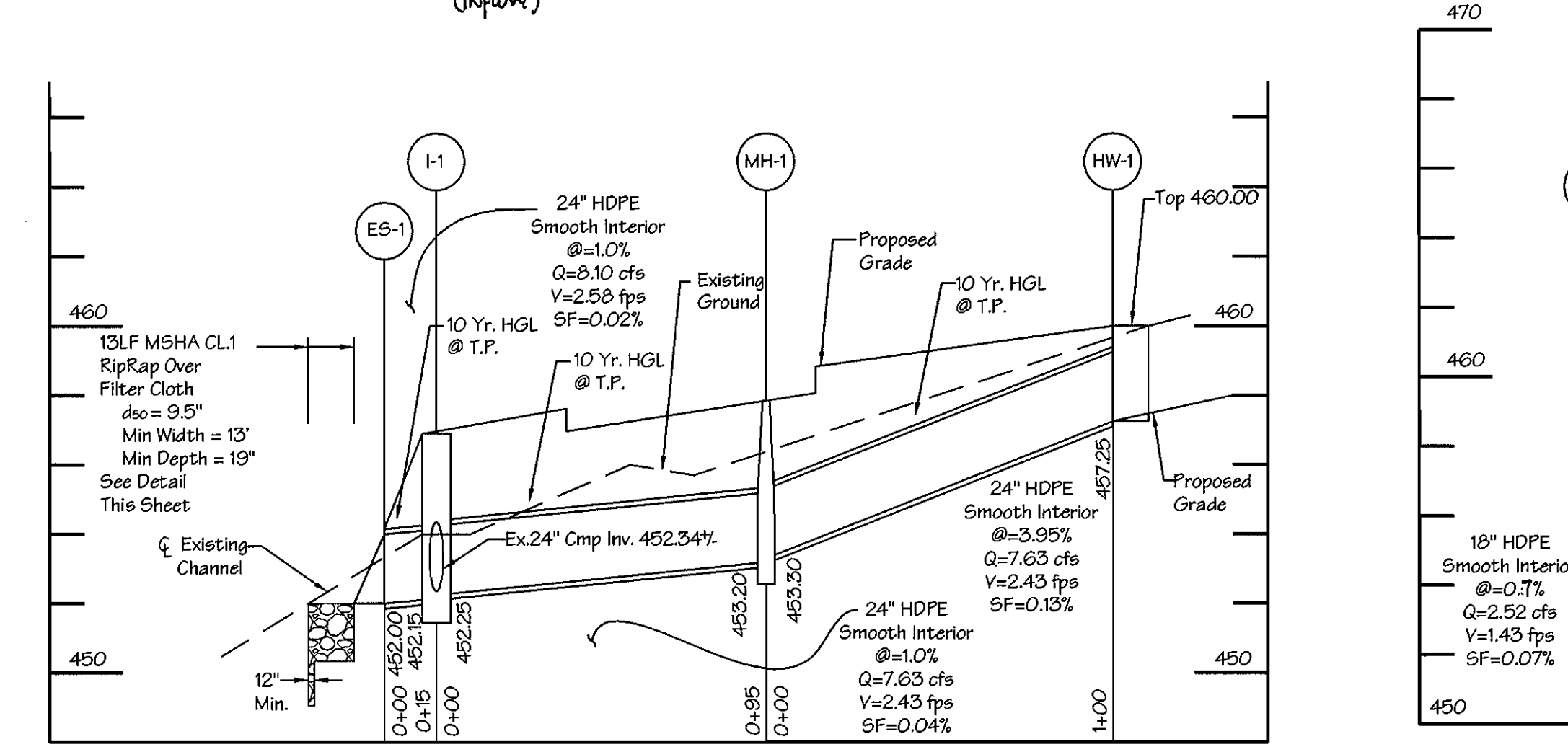
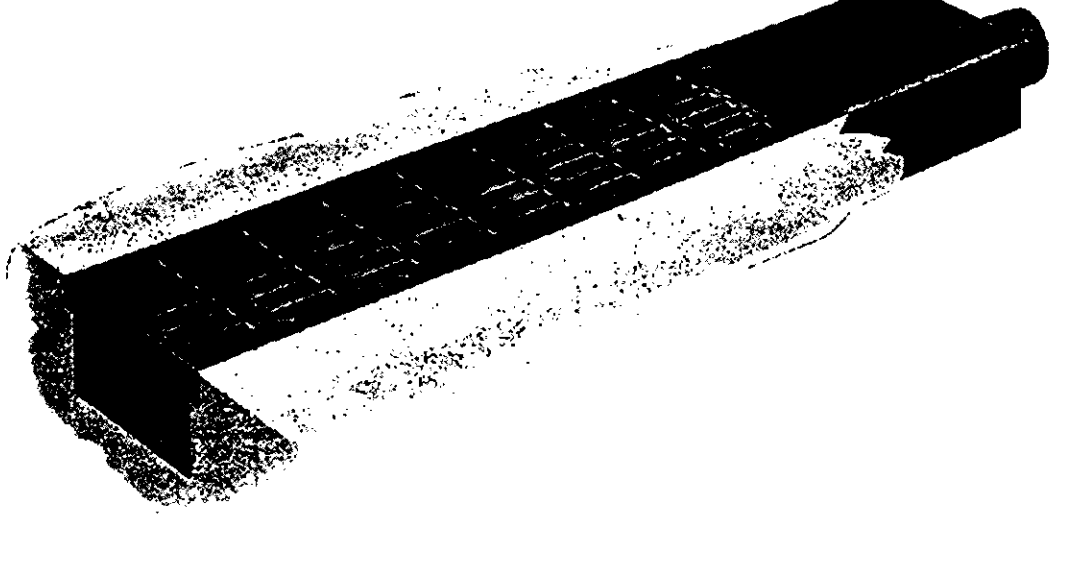
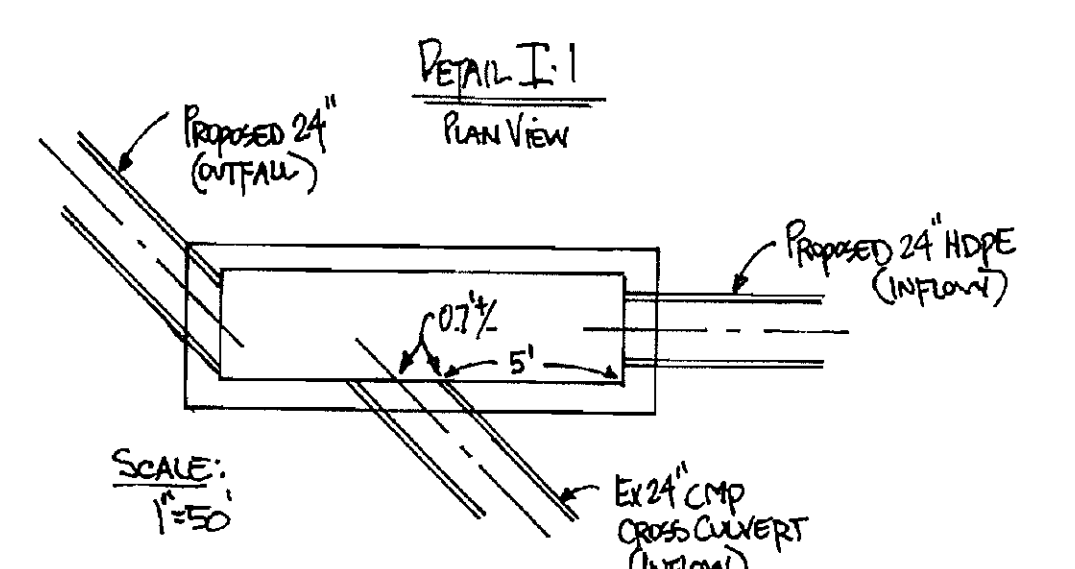


STRUCTURE SCHEDULE

Str. No.	Structure Type	Inv. In	Inv. Out	Top Elevation or Upper / Lower	Detail	Location	Remarks
I-1	A-10	452.25	452.25	456.00 / 455.80	SD-4.02	6+04.96 / 22.01 LT.	Plan View Detail This Sheet
I-2	Trench	456.30	455.30 / 456.21	457.30 / 457.70	-	SEE PLAN	Norsh Foundation or Equivalent
I-3	Type "D"	-	463.00	467.33	SD-4.01	4+24.10 / 31.24 LT.	THROAT UPSTREAM SIDE ONLY
I-4	A-5	469.81 / 462.18	469.71	467.90	SD-4.01	N591839.00 / E1342066.32	SUMP
I-5	A-5	464.91	464.81	472.00 / 471.90	SD-4.01	N591839.00 / E1342066.32	
I-6	A-5	463.00	462.90 / 463.73	460.30 / 469.60	SD-4.01	N591839.00 / E1342066.32	
I-7	Type "D"	463.60 / 468.50	463.25	463.30	SD-4.11	N592028.64 / E134705.64	THROAT 4 SIDES
I-8	Type "D"	-	463.30	464.50	Mod. SD-4.11	N592028.64 / E134705.64	THROAT 4 SIDES
I-9	A-5	-	464.75	475.80	SD-4.01	N591839.00 / E1342066.32	SUMP
I-10	A-5	-	478.20	485.80	SD-4.01	N591839.00 / E1342066.32	SUMP
I-11	A-5	-	485.30	494.30	SD-4.01	N591839.00 / E1342066.32	SUMP
I-12	A-5	-	490.70	496.50 / 496.36	SD-4.01	N591839.00 / E1342066.32	SUMP
I-13	A-5	462.56 / 464.50	462.08	469.30	SD-4.01	N591839.00 / E1342066.32	SUMP
I-14	A-5	476.60 / 478.85	475.50	479.40 / 478.60	SD-4.01	N591839.00 / E1342066.32	SUMP
I-15	A-5	484.85	484.75	490.90 / 490.60	SD-4.01	N591839.00 / E1342066.32	SUMP
I-16	A-5	-	471.90	477.00	SD-4.01	N591839.00 / E1342066.32	SUMP
I-17	A-5	-	470.60	475.80	SD-4.01	N591839.00 / E1342066.32	SUMP
I-18	A-5	-	483.30	483.30	SD-4.01	N591839.00 / E1342066.32	SUMP
I-19	A-5	-	474.88	484.30	SD-4.01	N591839.00 / E1342066.32	SUMP
I-20	A-5	-	484.40	491.60	SD-4.01	N591839.00 / E1342066.32	SUMP
MH-1	Manhole	463.30	463.20	457.60	G-5.12	7+01.68 / 23.82 LT	
MH-2	Manhole	455.13	455.03	468.35	G-5.12	0+60.66 / 3756 RT	
MH-2A	Manhole	455.41	455.31	457.80	G-5.12	0+71.31 / 15 RT	
MH-2B	Manhole	456.90	456.76	463.50	G-5.12	1+91.28 / 8.06 RT	
MH-3	Manhole	467.00	466.27	473.00	G-5.12	4+84.17 / 14.28 LT	
MH-3A	Manhole	470.00	466.32	474.00	G-5.12	6+03.18 / 19.38 LT	
MH-4	Manhole	456.46	462.34	460.00	G-5.12	5+93.74 / 28.65 LT	
MH-5	Manhole	474.00 / 474.80	473.30	480.80	G-5.12	N591839.00 / E1342066.32	
MH-6	Manhole	468.53 / 468.67	468.27	495.20	G-5.12	N592028.64 / E134705.64	
MH-7	Manhole	468.58 / 468.58	468.48	466.20	G-5.12	N591839.00 / E1342066.32	
MH-8	Manhole	466.27 / 468.30	466.27	473.15	G-5.12	N591839.00 / E1342066.32	
MH-9	Manhole	483.00 / 483.60	482.70	488.80	G-5.12	N591839.00 / E1342066.32	
ES-1	HDPE End Section	-	452.00	454.00	N/A	5+33.74 / 28.65 LT	Typical HDPE Flare End Section
ES-2	HDPE End Section	-	456.00	456.50	N/A	0+65.67 / 39.93 RT	Typical HDPE Flare End Section
ES-4	HDPE End Section	-	465.00	466.50	N/A	4+39.96 / 31.1 LT	Typical HDPE Flare End Section
ES-5	HDPE End Section	-	466.00	467.50	N/A	5+38 / 37.0 LT	Typical HDPE Flare End Section
ES-6	HDPE End Section	-	488.00	489.50	N/A	10+33.33 / 21.5 LT	Typical HDPE Flare End Section
ES-7	HDPE End Section	-	452.00	454.00	N/A	N591839.00 / E1342066.32	Typical HDPE Flare End Section
ES-8	HDPE End Section	-	452.00	454.00	N/A	N591839.00 / E1342066.32	Typical HDPE Flare End Section
ES-9	HDPE End Section	-	466.71	467.96	N/A	N591839.00 / E1342066.32	Typical HDPE Flare End Section
HW-1	"E" Headwall	457.25	-	460.00	SD-5.31	8+02.65 / 24.61 LT	
HW-2	"C" Headwall	470.50	-	472.75	SD-5.21	4+15.67 / 16.00 RT	
HW-3	"E" Headwall	475.50	-	477.75	SD-5.31	5+75 / 16.00 RT	
HW-4	"C" Headwall	488.00	-	492.75	SD-5.21	10+33.33 / 16.00 RT	
S-1	Structure	463.00	463.00	458.00	SD-22	1+45.48 / 46.23 RT	
EW-1	End Section	-	452.00	454.00	SD-5.51	1+55.75 / 36.75 LT	
S-2	SWM RISER	423.70	423.60	431.33	SD-23	N591839.00 / E1342066.32	
EW-2	"A" Headwall	-	423.27	426.27	SD-5.11	N591839.00 / E1342066.32	

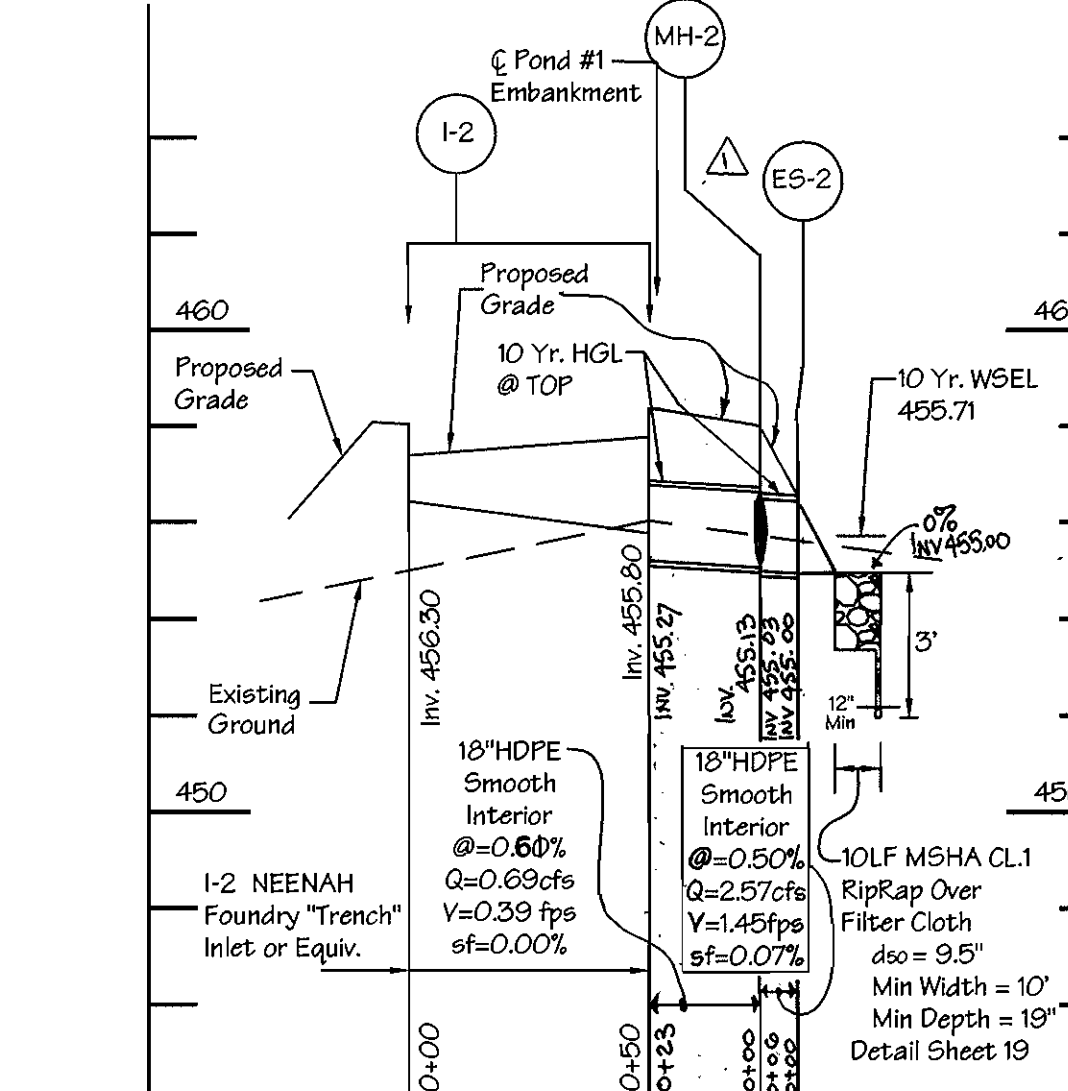
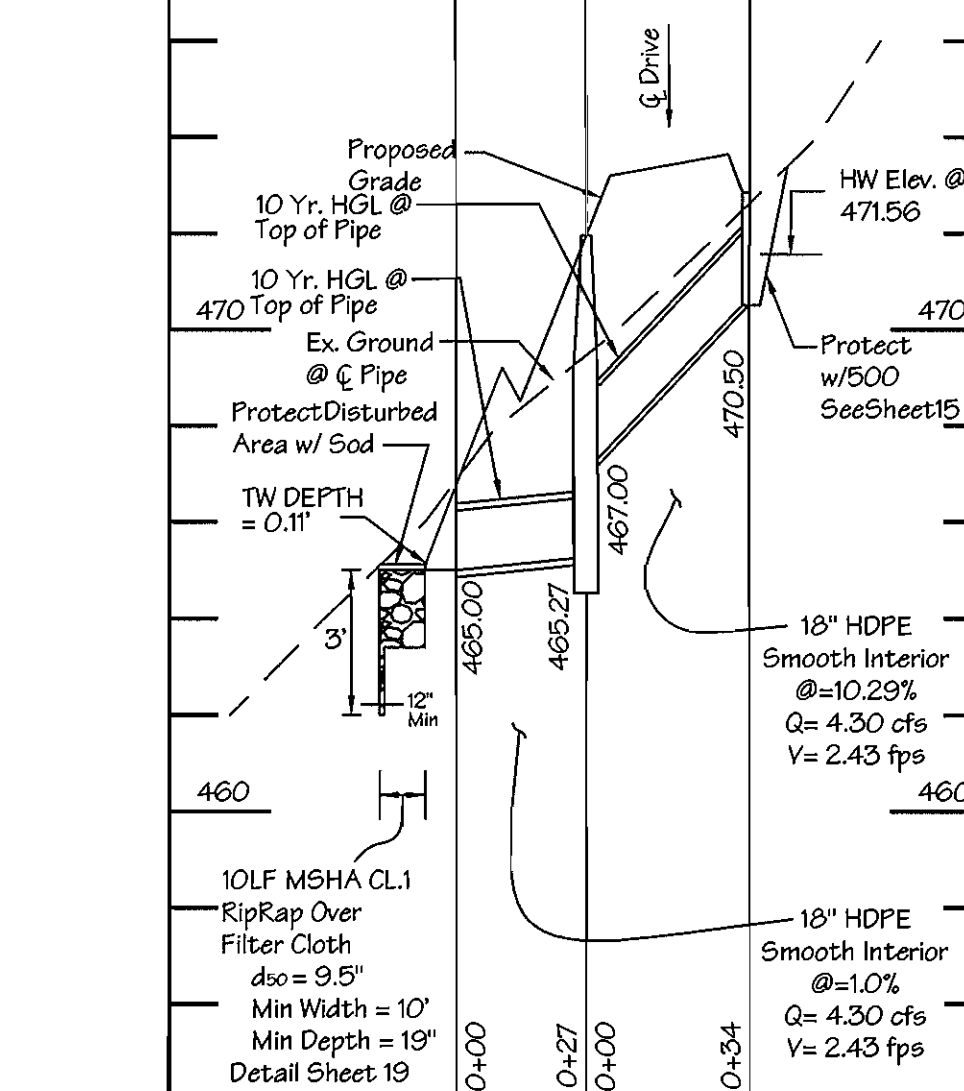
R-4990 Heavy Duty Trench Frames with Grated or Solid Covers

MATERIALS: All frames and grates are furnished slotted in Gray Iron, Class 35, for heavy duty use.



PIPE SCHEDULE

Size	Class	Total Length
15"	HDPE Smooth Interior	747 FT
18"	HDPE Smooth Interior	1406 FT
24"	HDPE Smooth Interior	468 FT
6"	PVC SCH 40	560 FT



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/02
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/14/02
DIRECTOR

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

[Signature] 7/8/03
TERRILL R. GIBSON, DISTRICT ENGINEER

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

[Signature] 7/8/03
TERRILL R. GIBSON, DISTRICT ENGINEER

ENGINEER'S CERTIFICATE

I certify that this plan for storm drain construction and sediment control represents a practical and workable design and meets the requirements of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have reviewed the plan and must engage a registered professional engineer to supervise and certify the construction of the project. I shall engage a registered professional engineer to supervise and certify the construction of the project. I shall engage a registered professional engineer to supervise and certify the construction of the project.

[Signature] 6/25/03
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

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 Approval Training Program for the Control of Sediment and Erosion at the beginning of the project. I shall engage a registered professional engineer to supervise and certify the construction of the project. I shall engage a registered professional engineer to supervise and certify the construction of the project. I shall engage a registered professional engineer to supervise and certify the construction of the project.

[Signature] 6/25/03
SIGNATURE OF DEVELOPER

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7-12-03
HOWARD COUNTY HEALTH OFFICER

REVISIONS

No.	Date	Description
1	11/2003	REVISE STORM PROFILES M28 THRU ES-2, REVISE SCHEDULES

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Block No: 16	Zone: RC-DEO	Tax Map No: 16	Election District: 3rd	Census Tract: 6030
Water Code: J02	Parcel No: 203	Section/Block: 16	Sheet: 16	Scale: 3rd	Water Code: N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

Storm Drain Profiles

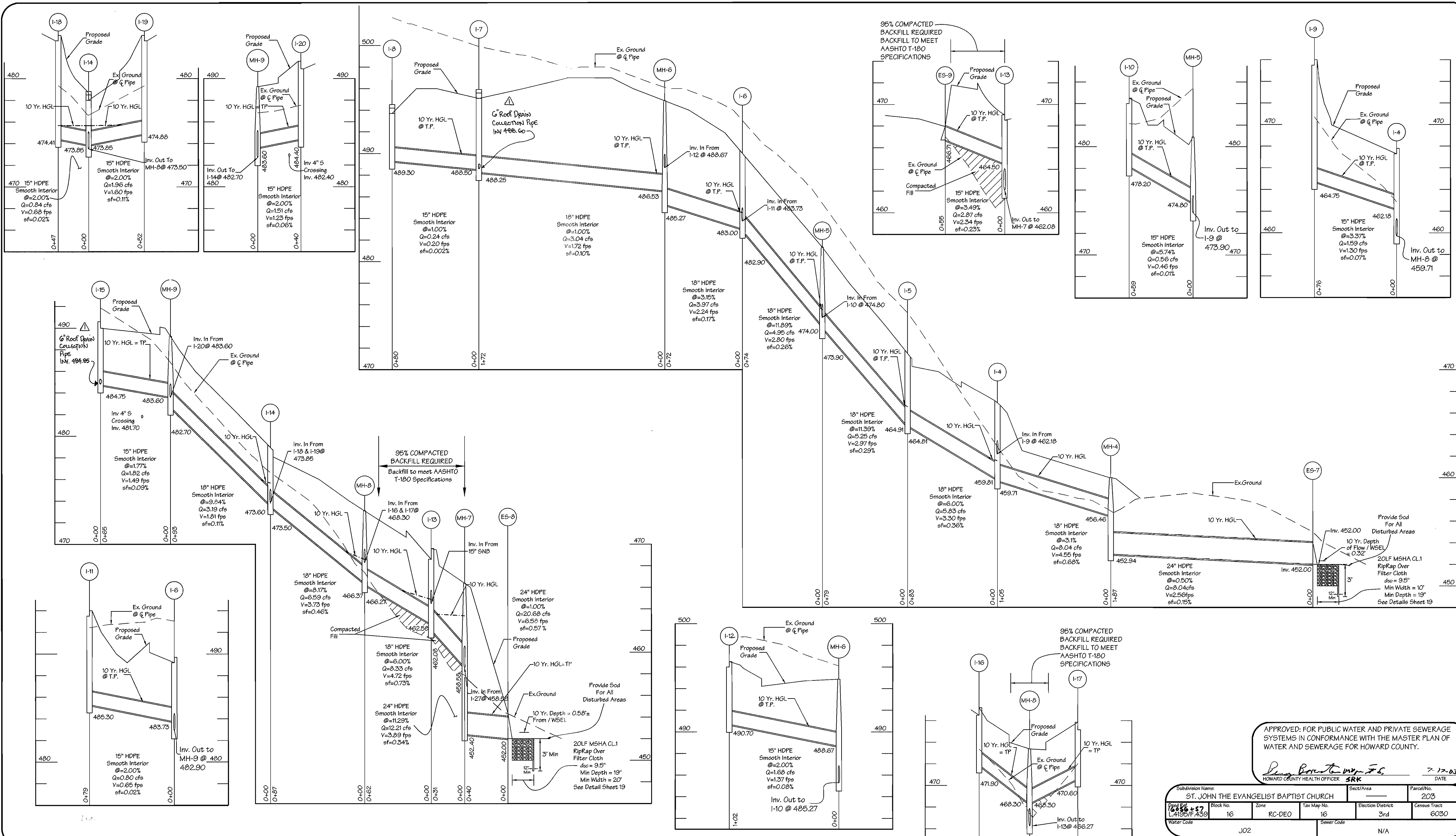
ST. JOHN THE EVANGELIST BAPTIST CHURCH

Phase One & Two

11 of 33

00-003

FILE NO. SDP 02-05



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Paula Boreta
 HOWARD COUNTY HEALTH OFFICER **SRK** DATE 7-12-03

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH		Parcel/Block: 203	
Zone: 16	Tax Map No: RC-DEO 16	Election District: 3rd	Census Tract: 6030
Water Code: JO2	Sewer Code: N/A		

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED E.D.S. J.L.M.	SCALE As Shown
DRAWN J.L.M.	DRAWING 12 of 33
CHECKED E.D.S. B.D.B.	JOB NO. 00-003
DATE 6/2003	FILE NO. SDP 02-05

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland
 Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F03-96
 OWNER / DEVELOPER: ST JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lomie King Jr.
 8910 Old Annapolis Road / MD, Route 108
 Columbia, Maryland 21045

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Paul D. ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 7/16/03

Chris ...
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 7/28/02

Mark DeCaulle
 DIRECTOR DATE 7/14/02

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

Jim ...
 SUPERVISOR, NATURAL RESOURCE CONSERVATION SERVICE DATE 7/8/03

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

Jim ...
 SUPERVISOR, NATURAL RESOURCE CONSERVATION SERVICE DATE 7/8/03

ENGINEER'S CERTIFICATE

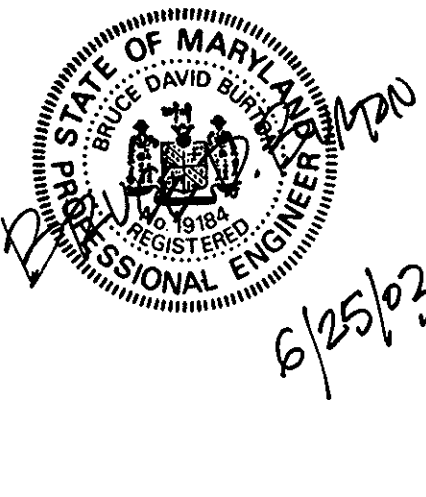
I certify that this plan represents a practical and workable design for a storm drain and sediment control system and that all requirements of the site conditions. This plan was prepared in accordance with the knowledge of the site conditions. I have not observed any other conditions that would require a registered professional engineer to supervise the construction and I hereby certify that the plan meets the requirements of the Howard Soil Conservation District with an "as-built" plan to be filed with the Howard Soil Conservation District upon completion.

Paul V. ...
 REGISTERED PROFESSIONAL ENGINEER DATE 6/25/03

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at the 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 the construction and provide the Howard Soil Conservation District with an "as-built" plan to be filed with the Howard Soil Conservation District.

Paul V. ...
 SIGNATURE OF DEVELOPER DATE 6/25/03



REVISIONS

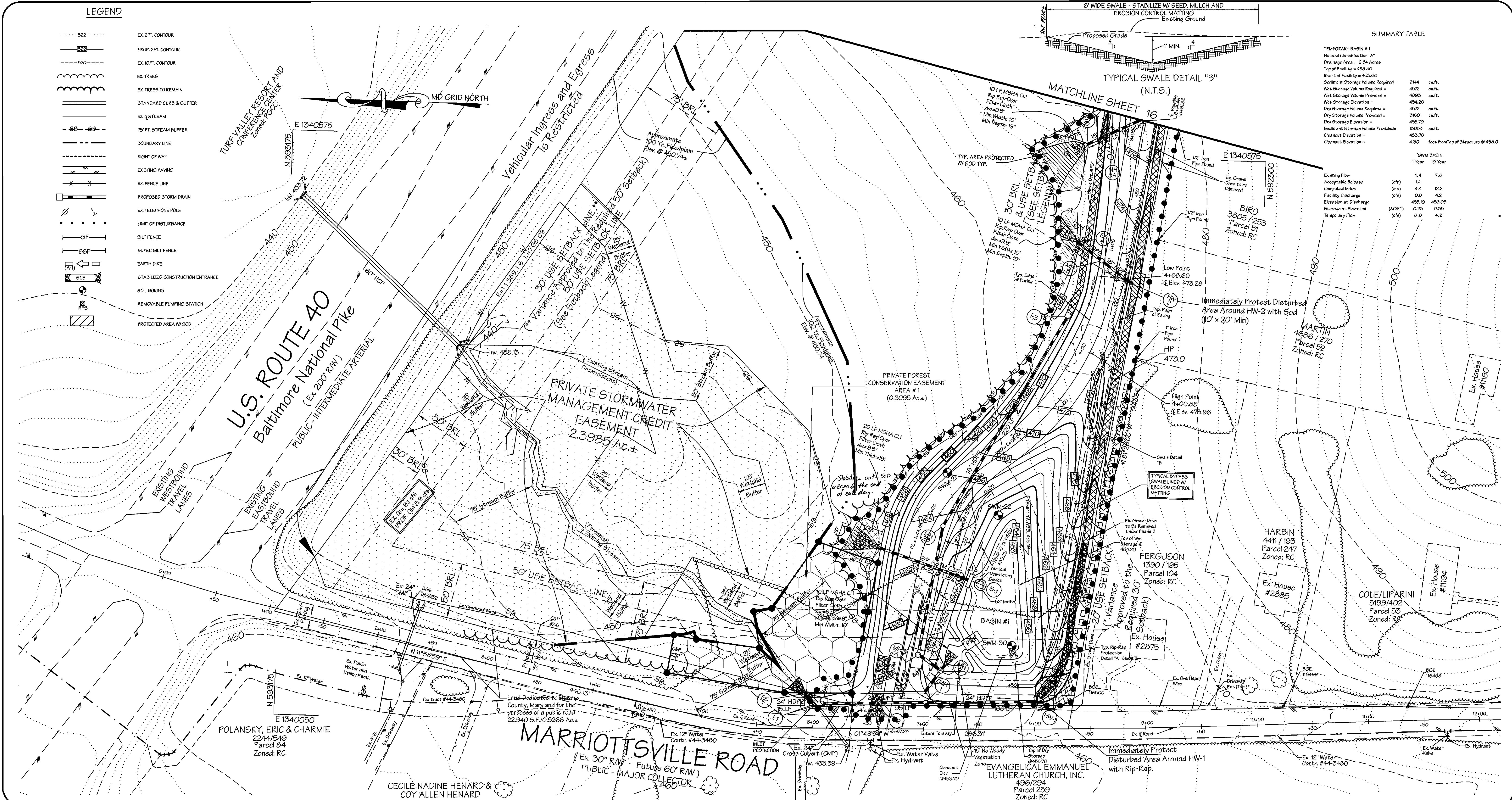
No.	Date	Description
1	11/2003	ADD G° ROOF DRAIN COLLECTION PIPES TO I-15 AND I-7

LEGEND

- 522 --- EX. 2 FT. CONTOUR
- 522 --- PROP. 2 FT. CONTOUR
- 520 --- EX. 10 FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE
- 520 --- LIMIT OF DISTURBANCE
- 520 --- SILT FENCE
- 520 --- SUPER SILT FENCE
- 520 --- EARTH DIKE
- 520 --- STABILIZED CONSTRUCTION ENTRANCE
- 520 --- SOIL BORING
- 520 --- REMOVABLE PUMPING STATION
- 520 --- PROTECTED AREA W/ 500'

SUMMARY TABLE

TEMPORARY BASIN # 1	
Hazard Classification "A"	
Drainage Area = 2.54 Acres	
Top of Facility = 453.00	
Invert of Facility = 453.00	
Sediment Storage Volume Required =	9144 cu.ft.
Wet Storage Volume Provided =	4572 cu.ft.
Wet Storage Volume Required =	4595 cu.ft.
Wet Storage Elevation =	454.20
Dry Storage Volume Provided =	4572 cu.ft.
Dry Storage Elevation =	455.70
Dry Storage Volume Required =	4572 cu.ft.
Sediment Storage Volume Provided =	15053 cu.ft.
Cleanout Elevation =	453.70
Cleanout Elevation =	4.30 feet from Top of Structure @ 453.00



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Denise Smith, M.S.E.
 HOWARD COUNTY HEALTH OFFICER SRK
 7-17-03 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Kennedy
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 7/11/03 DATE

Cecily Herold
 CHIEF, DIVISION OF LAND DEVELOPMENT
 7/23/03 DATE

Dawn K. Geyer
 DIRECTOR
 7/24/03 DATE

Easement Legend

- Stormwater Management Credit Easement
- Forest Conservation Easement

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

Jim Myers, L.S.
 TERRITORIAL RESOURCE CONSERVATION SERVICE
 7/8/03 DATE

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

John A. [Signature]
 HOWARD SOIL CONSERVATION DISTRICT
 7/8/03 DATE

ENGINEER'S CERTIFICATE

I certify that this plan for proposed stormwater management control represents a practical and workable plan for 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 and signed a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the project 30 days of completion. I also authorize the public notice inspections by Howard Soil Conservation District.

PRINCE D. [Signature]
 SIGNATURE OF ENGINEER
 6/25/03 DATE

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion held during 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 project 30 days of completion. I also authorize the public notice inspections by Howard Soil Conservation District.

[Signature]
 SIGNATURE OF DEVELOPER
 6/25/03 DATE

STATE OF MARYLAND

[Seal]

PROFESSIONAL ENGINEER

[Signature]
 6/25/03

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	38° 11'50"	121.76'	64.46'	S57° 42'01"E - 118.45'
Driveway - 2+66.54 - 4+71.56	250.00'	22° 55'06"	205.02'	108.67'	S57° 56'22"E - 199.33'

- NOTE: 1) CURL ALL ENDS OF SILT FENCE UP HILL BY 2 FT. IN ELEVATION
- 2) THE CLEARWATER DIVERSION DIKE ALONG THE NORTHERN "FERGUSON" PROPERTY LINE SHOULD CHANNEL ANY CLEANWATER TO HW-1. HW-1 SHOULD NOT RECEIVE ANY RUNOFF FROM DISTURBED AREAS UNTIL FULLY STABILIZED.
- 3) SE ALONG CENTERLINE NORTH SIDE OF BYPASS SWALE.

REVISIONS

No.	Date	Description
1	11/2003	REVISE STORM DRAIN MH-28-ES-2; REVISE S-1 STRUCTURE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Parcel No. 203	Census Tract 6030
Water Code JO2	Sewer Code N/A				

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

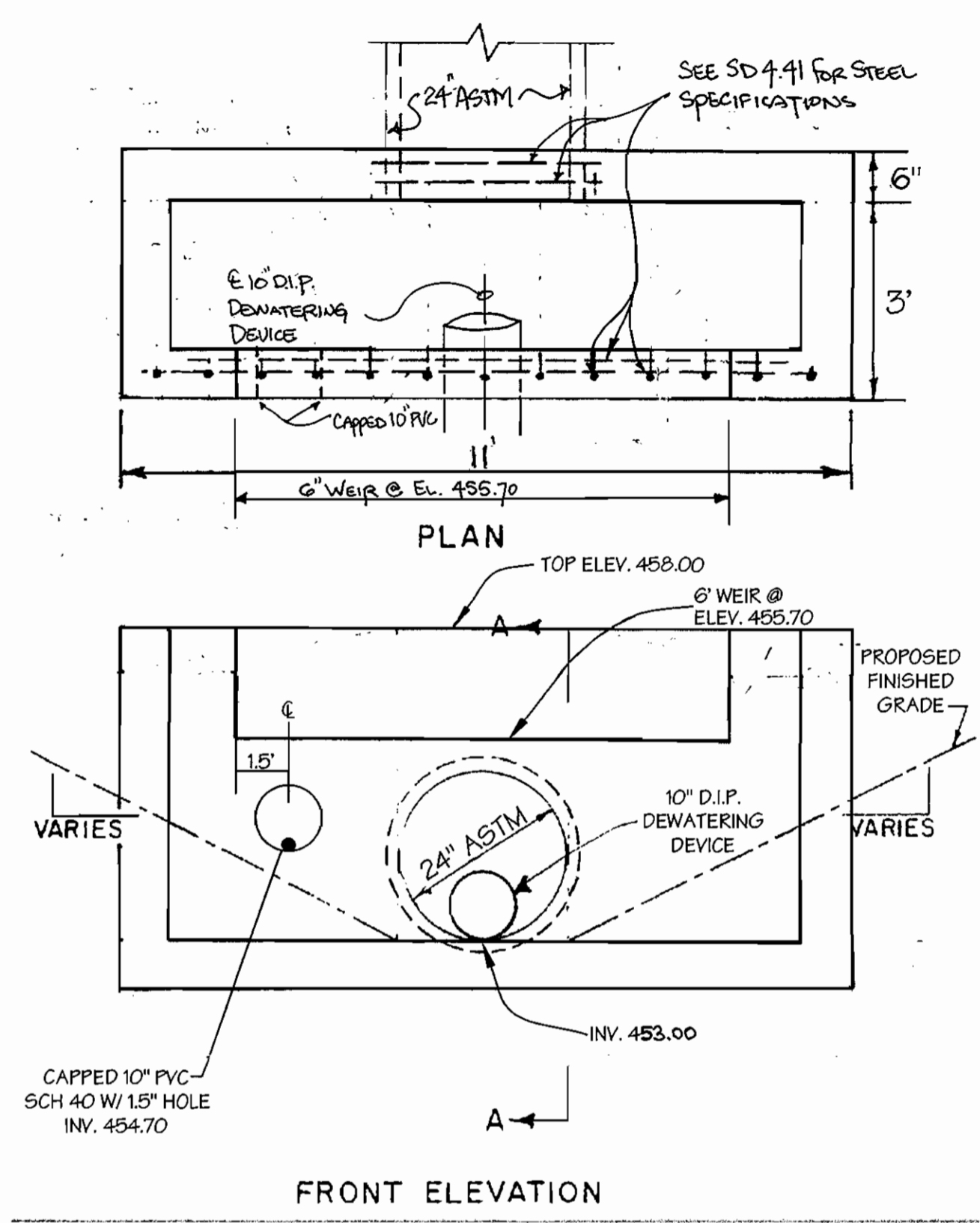
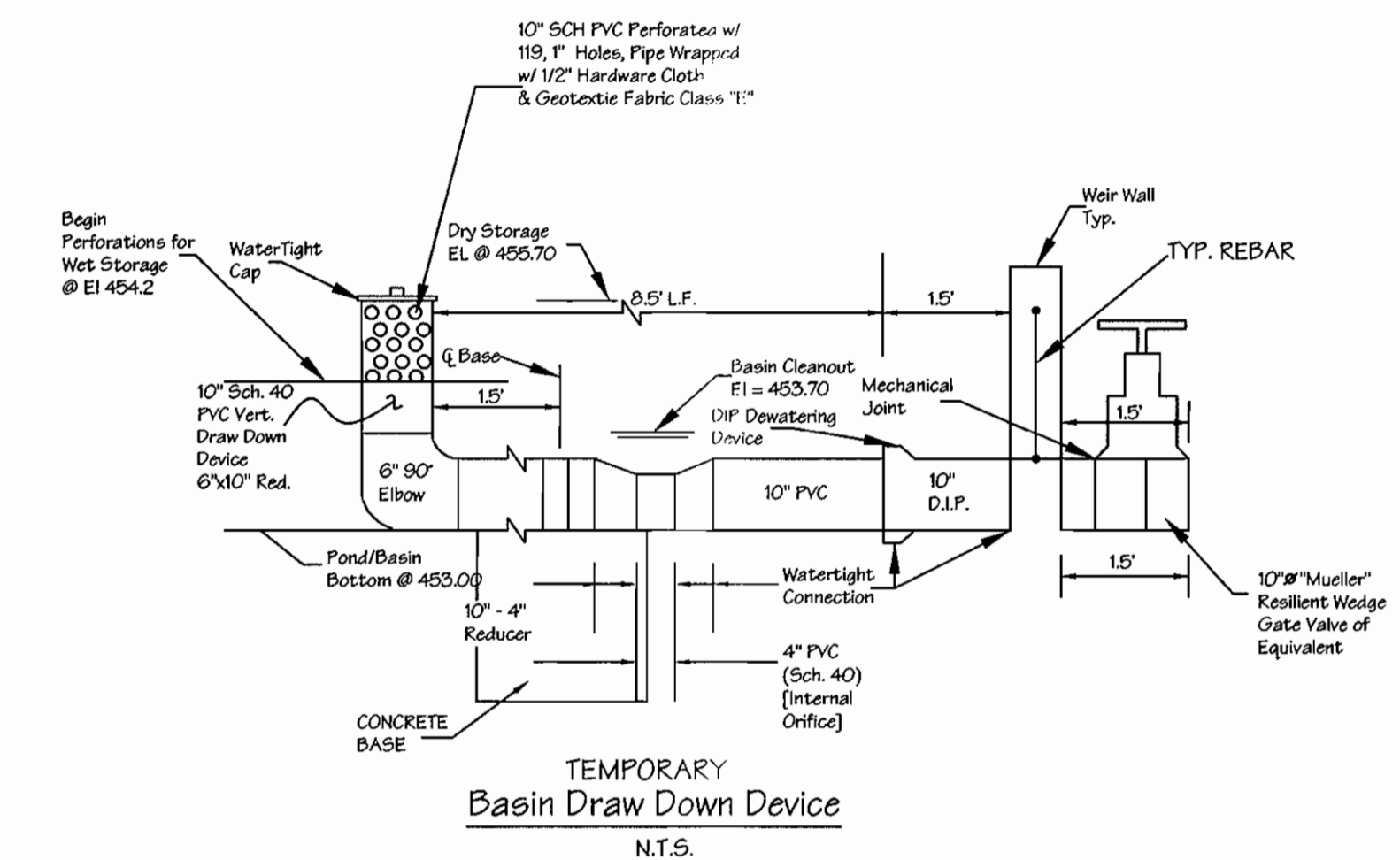
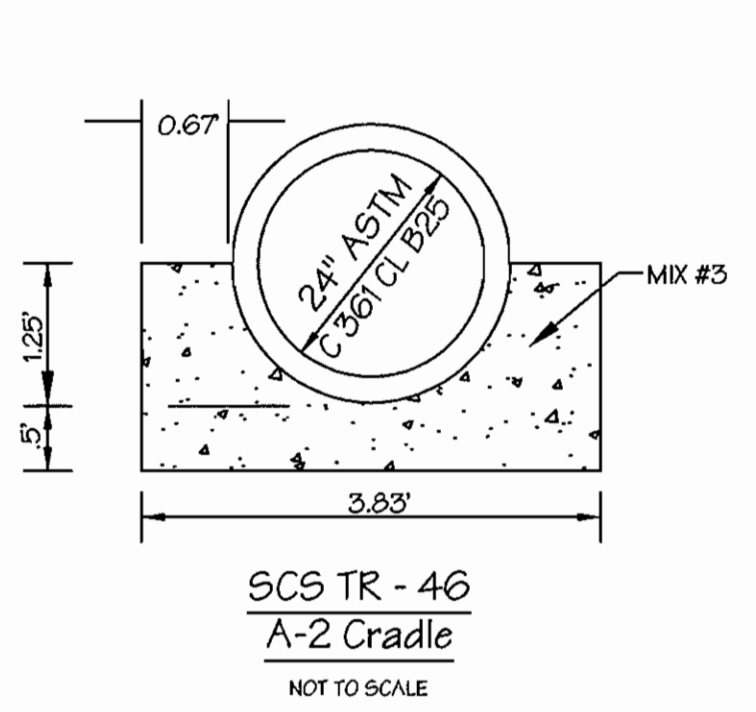
Phase 2 - Grading & Soil Erosion & Sediment Control Plan

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

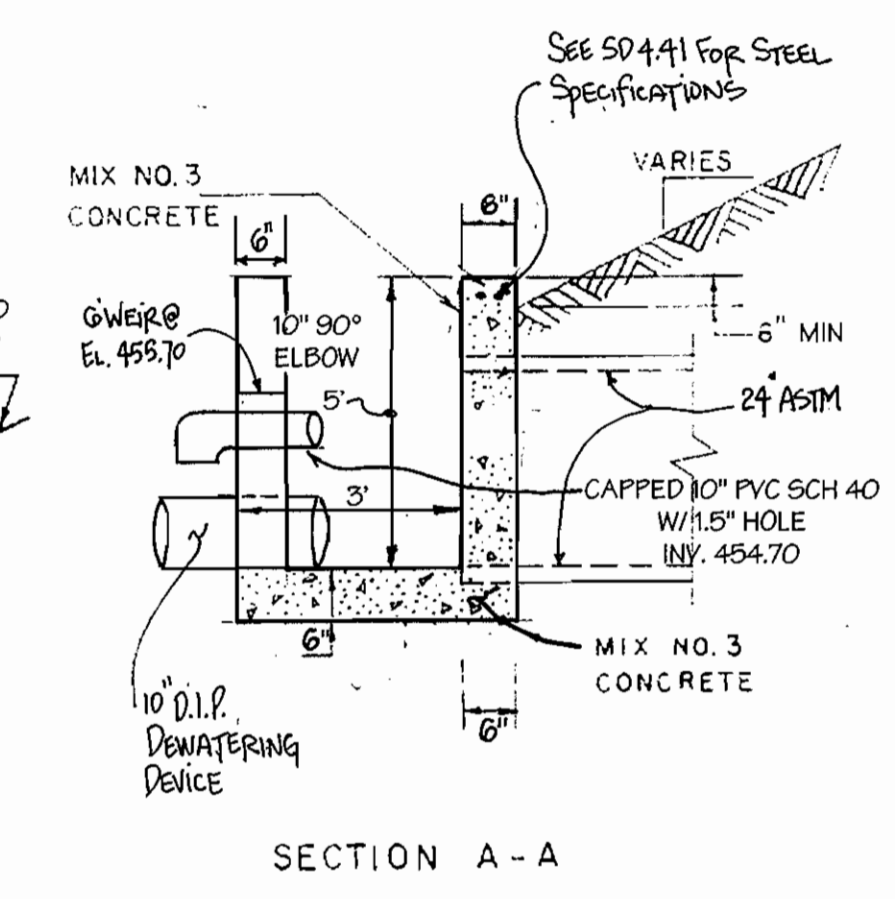
DESIGNED: E.D.S.
 DRAWN: J.L.M.
 CHECKED: B.D.B.
 DATE: 6/2003

SCALE: 1" = 40'
 DRAWING: 15 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96
 OWNER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lomie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045



S-1 SWM STRUCTURE DETAILS
N.T.S. (Modified SD 4.41)
- REFER TO SD 4.41 FOR NOTES, DETAILS AND REINFORCING STEEL SPECIFICATIONS

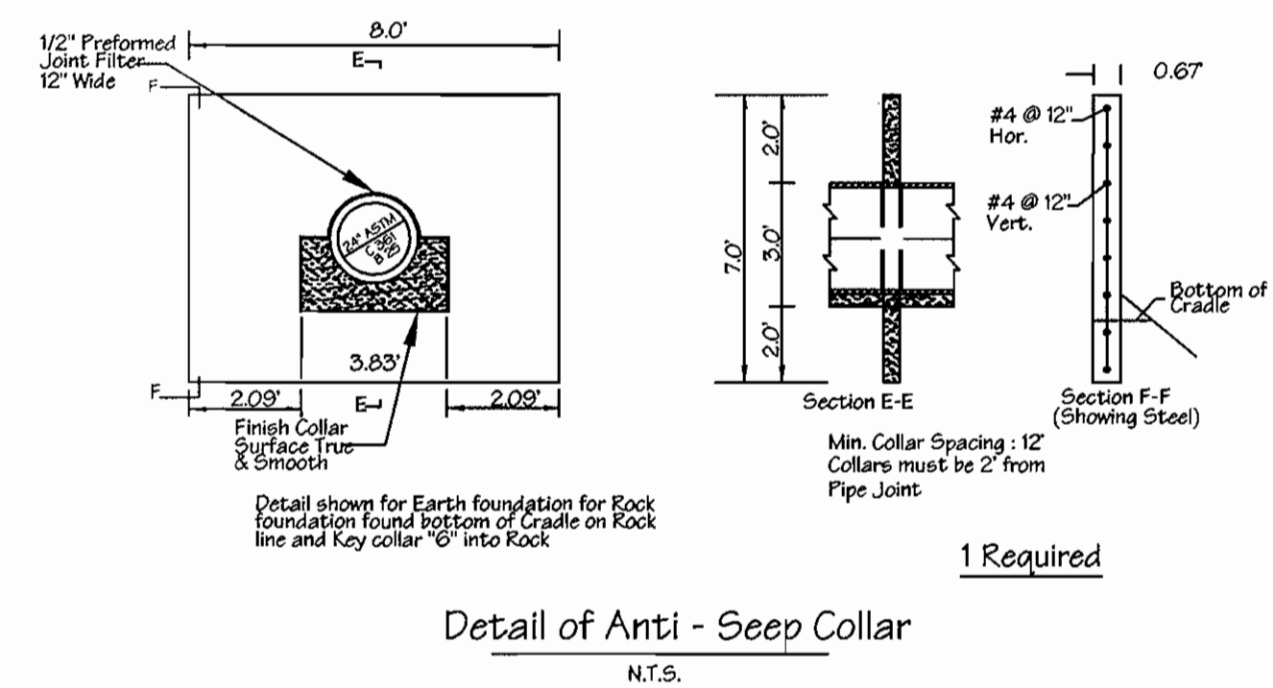


NOTES:

1. A Geotechnical Engineer is to be present on-site to supervise the construction of the core / cutoff trench, per MD 37B Specifications.
2. Core trench shall be dewatered prior to the placement of County Approved fill material.
3. The site shall be stripped of topsoil and any other unsuitable materials from the embankment of structure area in accordance with Soil Conservation guidelines. After stripping operations have been completed, the exposed subgrade materials should be proof-rolled with a loaded dump truck or similar equipment in the presence of the Geotechnical Engineer or his representative. For areas that are not accessible to a dump truck, exposed material shall be observed and tested by a geotechnical engineer or his representative utilizing a Dynamic Cone Penetrometer. Any excessive soft or loose materials identified by proof rolling or penetrometer testing should be excavated to suitably firm soil, and then reestablished by backfilling with suitable soil.

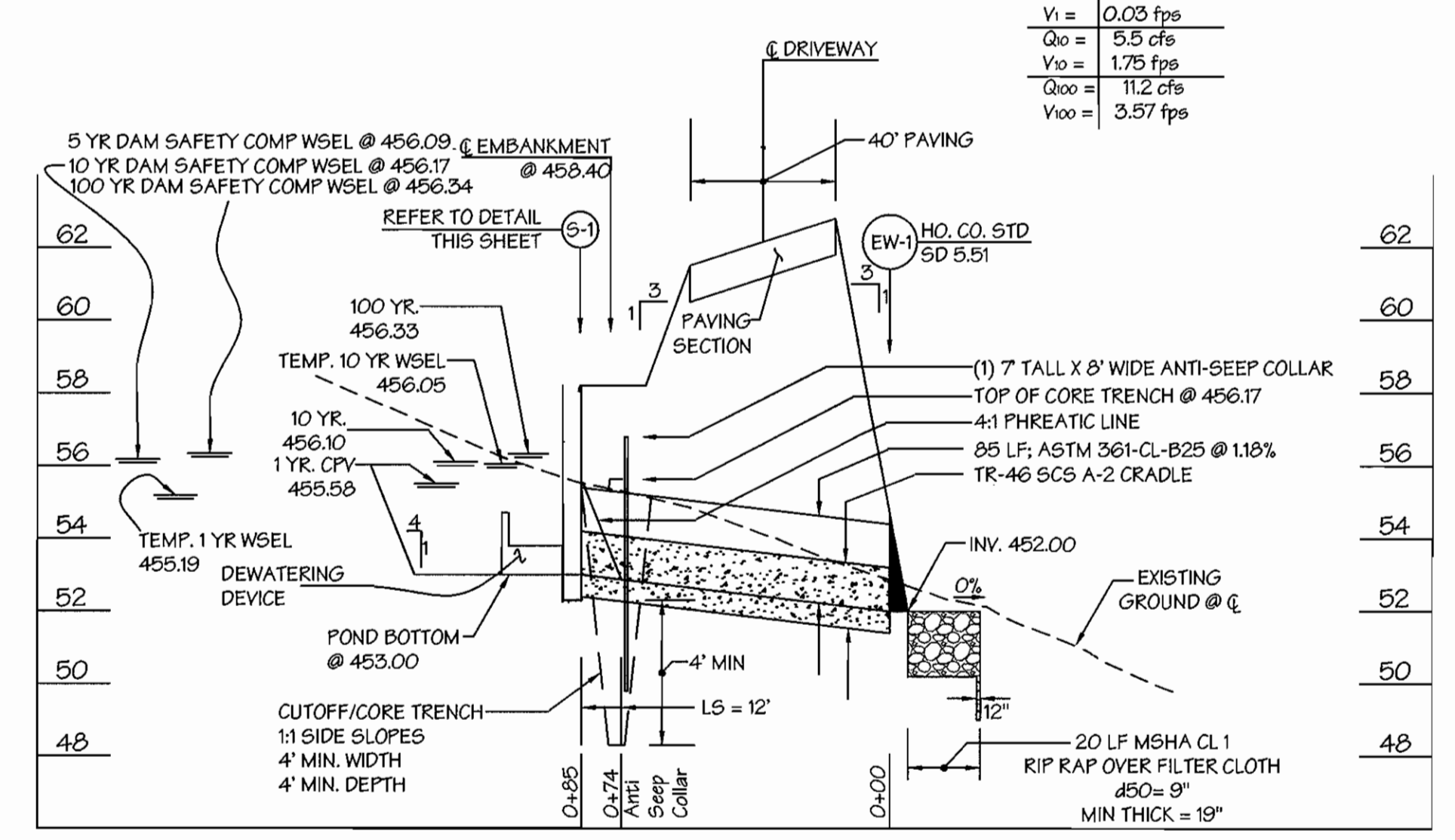
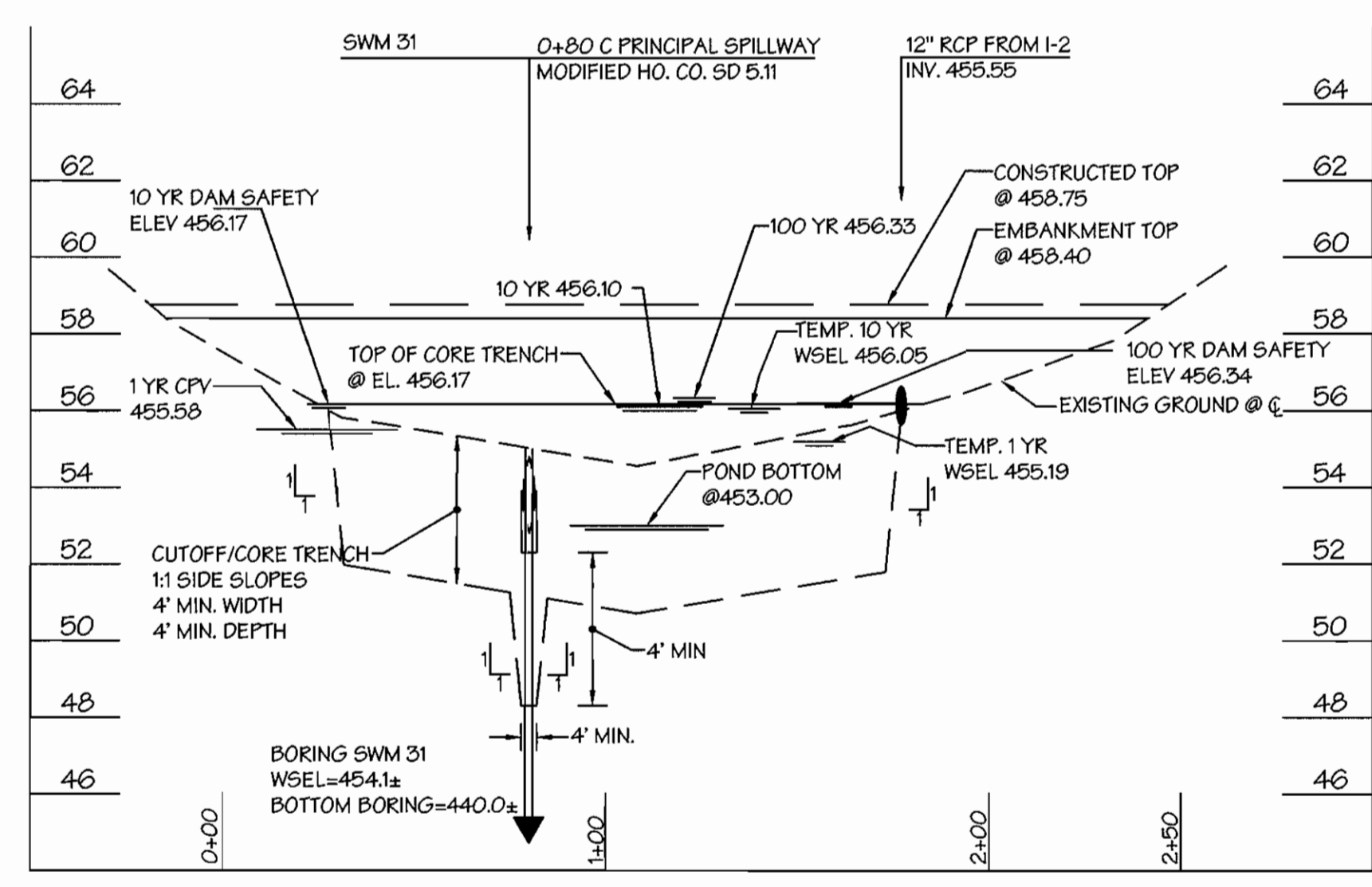
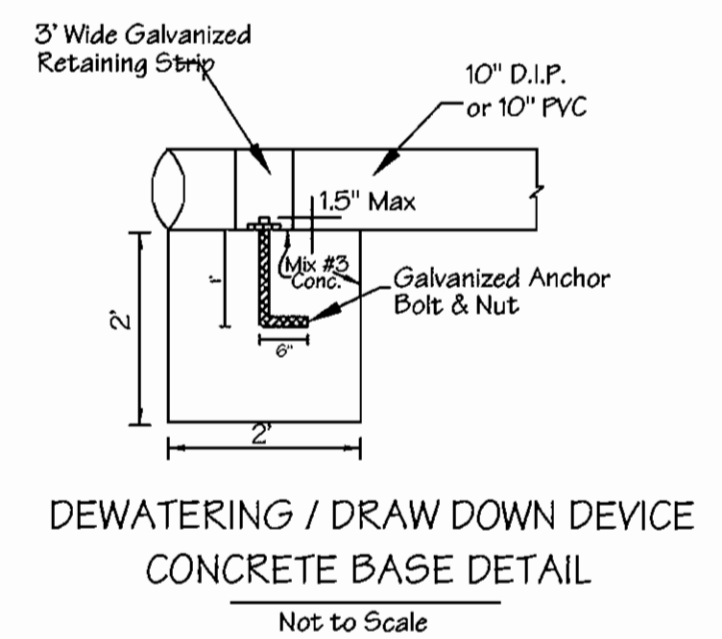
NOTE:

1. The Vertical Standpipe shall be removed as part of the Basin/Pond Conversion see sequence of construction Sheet 24.
2. The vertical standpipe is modeled after SCS Detail, Page C-10-30, Sheet 20.



Ultimate "Barrel" Flows

Q ₁ =	0.10 cfs
V ₁ =	0.03 fps
Q ₂ =	5.5 cfs
V ₂ =	1.75 fps
Q ₃₀ =	11.2 cfs
V ₃₀ =	3.57 fps



AS-BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

Signature _____ Date: _____ P.E. No. _____

Certify means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the engineer nor does an engineer's certification relieve any other party from meeting requirements imposed by contract, employment, or means, including meeting commonly accepted industry practices.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Mark D. Coughlin 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Quincy Harant 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

Mark D. Coughlin 7/24/03
DIRECTOR

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

DATE: _____

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

HOWARD SOIL CONSERVATION DISTRICT

DATE: _____

ENGINEER'S CERTIFICATE

I certify that this plan represents a design and sediment control represents a practical and workable plan based on the knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the District and have engaged a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic onsite inspections by Howard Soil Conservation District.

PAUCE D. EVANS 6/25/03
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible person involved in the construction project will have a Certificate of Attendance as a participant 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 the construction and provide the Howard Soil Conservation District with an "as-built" plan of the project within 30 days of completion. I also authorize periodic onsite inspections by Howard Soil Conservation District.

Mark D. Coughlin 6/25/03
SIGNATURE OF DEVELOPER DATE



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY

David M. Evans 7/17/03
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

REVISIONS

No.	Date	Description
1	11/2003	REVISE S-1 FROM MODIFIED SD 5.11 TO MODIFIED SD 4.41

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH

Block No. 16 Zone RC-DEO Tax Map No. 16 Election District 3rd Census Tract 6030

Water Code J02 Sewer Code N/A

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/2003

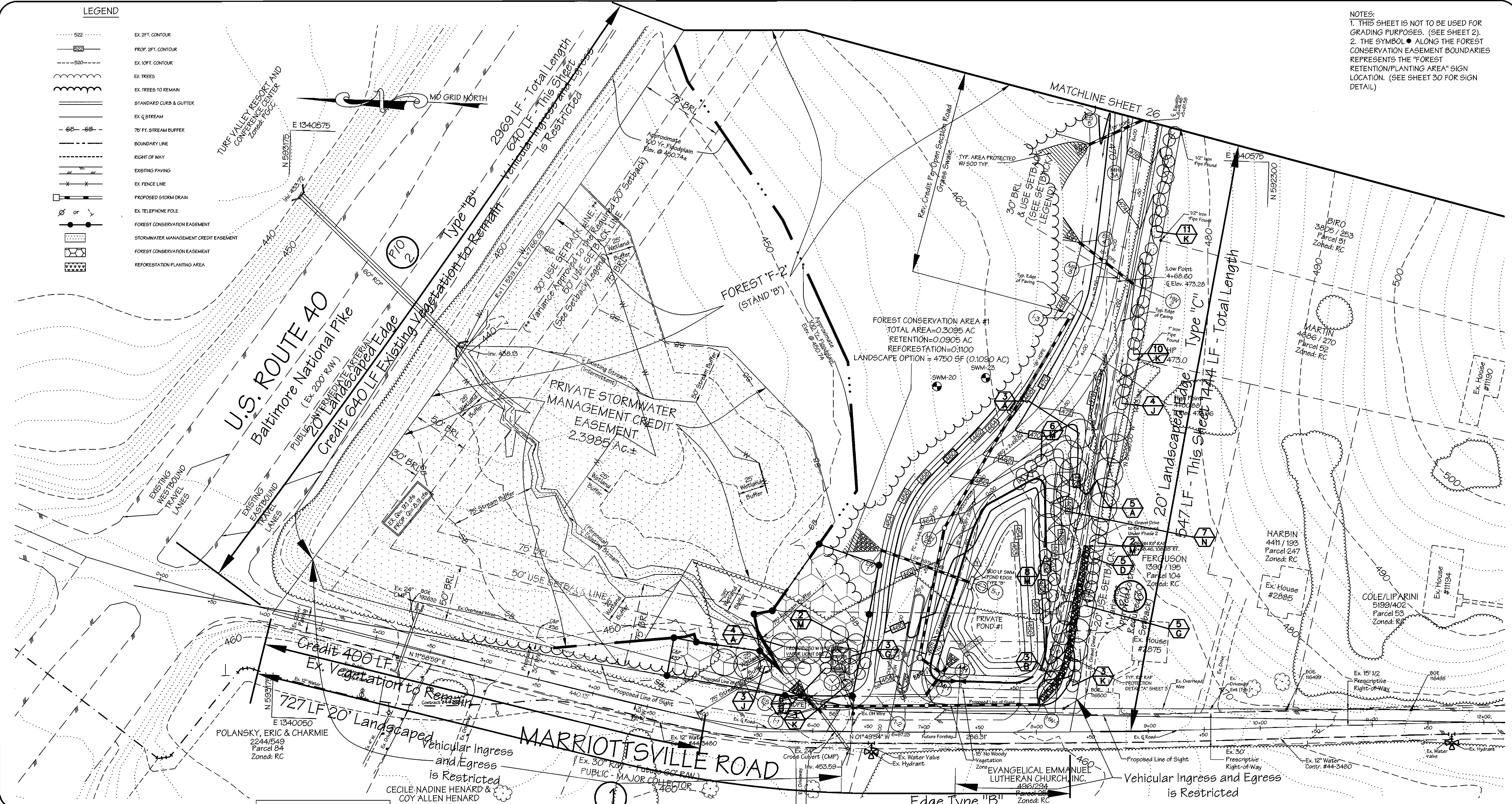
SCALE: As Shown
DRAWING: 22 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lonnie King Jr.
8910 Old Annapolis Road / MD. Route 108
Columbia, Maryland 21045

NOTES:
 1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 2).
 2. THE SYMBOL ● ALONG THE FOREST CONSERVATION EASEMENT BOUNDARIES REPRESENTS THE "FOREST RETENTION/PLANTING AREA" SIGN LOCATION. (SEE SHEET 30 FOR SIGN DETAIL)

LEGEND

- 522 --- EX. 2FT. CONTOUR
- 520 --- PROP. 2FT. CONTOUR
- 520 --- EX. 10FT. CONTOUR
- 520 --- EX. TREES
- 520 --- EX. TREES TO REMAIN
- 520 --- STANDARD CURB & GUTTER
- 520 --- EX. Q. STREAM
- 520 --- 75' FT. STREAM BUFFER
- 520 --- BOUNDARY LINE
- 520 --- RIGHT OF WAY
- 520 --- EXISTING PAVING
- 520 --- EX. FENCE LINE
- 520 --- PROPOSED STORM DRAIN
- 520 --- EX. TELEPHONE POLE
- 520 --- FOREST CONSERVATION EASEMENT
- 520 --- STORMWATER MANAGEMENT CREDIT EASEMENT
- 520 --- FOREST CONSERVATION EASEMENT
- 520 --- REFORESTATION PLANTING AREA



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
 Howard County Health Officer: *SRK* 7/2/03 DATE

BLUMHAGEN, L. L. HARRIS, M.S., & ASSOCIATES
 Environmental Consulting Services
 10011 Dillwood Court
 Gaithersburg, MD 20878
 Phone: (301) 948-7222
 Fax: (301) 948-7223

REDMOND PANSY M., ET AL
 1436/600
 Parcel 47
 Zoned: RC
 Ex. Hse #2830

CECILIE NADINE HENARD & COY ALLEN HENARD
 1273/718
 Parcel 85
 Zoned: RC
 #2816

CENTERLINE CURVE DATA

Name & Station	Radius	Delta	Length	Tangent	Chord Bearing & Dist.
Driveway - 1+44.78 - 2+66.54	150.00'	38° 11'50"	121.76'	64.46'	S57° 42'01"E - 118.45'
Driveway - 2+66.54 - 4+71.56	250.00'	22° 55'06"	205.02'	108.67'	S57° 56'22"E - 199.33'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division: *W.C.R.P.* 7/1/03 DATE
 Chief, Division of Land Development: *JK* 7/2/03 DATE
 Director: *Mark A. Legler* 7/2/03 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
 U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCE CONSERVATION SERVICE
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
 I certify that this plan, showing the location and sediment control represents a practical and workable plan for the construction of the site conditions. This plan was prepared in accordance with the standards and specifications of the Howard Soil Conservation District. I have noted the date, time, and place of the site inspection and provide the Howard Soil Conservation District engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also accept the right of inspections by Howard Soil Conservation District.
 6/25/03 DATE

DEVELOPER'S CERTIFICATE
 We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction projects will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion during the construction project. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also accept the right of inspections by Howard Soil Conservation District.
 6/25/03 DATE

NOTE: AREA WITHIN THE LINE OF SIGHT AND STREAM BUFFER SHALL BE CLEARED SELECTIVELY OF ALL GROUND VEGETATION WHICH OBSTRUCTS THE DRIVERS VISION. ALL TREES WITHIN THIS AREA SHALL BE LIMBED UP TO A HEIGHT OF 5' AND ALL WORK MUST BE COMPLETED BY HAND.
 NO MECHANICAL MACHINERY OR GRADE DISTURBANCE SHALL BE PERMITTED WITHIN THE STREAM BUFFER.

STATE OF MARYLAND
 DAVID S. BROWN
 PROFESSIONAL ENGINEER
 6/25/03

REVISIONS

No.	Date	Description
1	11/2003	REVISE STORM DRAIN MH 2B - ES-2; REVISE S-1 STRUCTURE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area: ---	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Water Code: J02	Elect. District: 3rd	Census Tract: 6030
Water Code: J02	Sewer Code: ---	Parcel No.: N/A

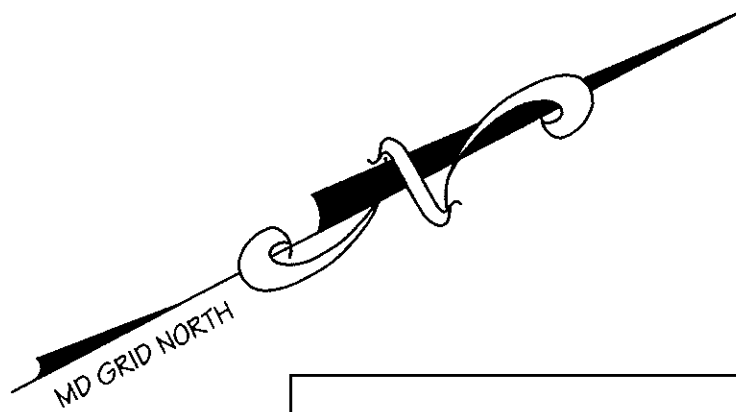
LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. W.M.C.R.P.
 DRAWN: W.M.C.R.P. L.D.E.
 CHECKED: B.D.B.
 DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-26E, BA 01-64Y, WF 03-06, F 03-96
 OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lornie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 25 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05



NOTES:
 1. THIS SHEET IS NOT TO BE USED FOR GRADING PURPOSES. (SEE SHEET 4).
 2. THE SYMBOL ● ALONG THE FOREST CONSERVATION EASEMENT BOUNDARIES REPRESENTS THE "FOREST RETENTION/PLANTING AREA" SIGN LOCATION. (SEE SHEET 30 FOR SIGN DETAIL)

EDWARDS, LABAREE, M.S. & ASSOCIATES
 Environmental Consulting Services
 3805 Rigdon Circle
 Bethesda, MD 20814
 (301) 461-2100
 www.edwards-labaree.com

HARBIN
 4294 / 452
 Parcel 204
 Zoned: RC

BRANTWOOD LLC
 4987 / 674
 Parcel 96
 Zoned: RC

HARBIN
 4294 / 452
 Parcel 204
 Zoned: RC

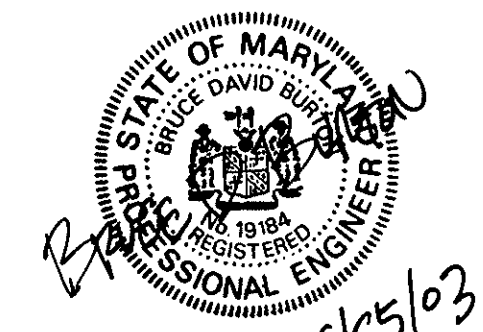
LEGEND

	EX. 2 FT. CONTOUR
	PROP. 2 FT. CONTOUR
	EX. 10 FT. CONTOUR
	EX. TREES
	EX. TREES TO REMAIN
	STANDARD CURB & GUTTER
	EX. G. STREAM
	75' FT. STREAM BUFFER
	BOUNDARY LINE
	RIGHT OF WAY
	EXISTING PAVING
	EX. FENCE LINE
	PROPOSED STORM DRAIN
	EX. TELEPHONE POLE
	COMB. CURB & GUTTER
	PROPOSED EDGE OF PAVING
	FOREST CONSERVATION EASEMENT
	STORMWATER MANAGEMENT CREDIT EASEMENT
	FOREST CONSERVATION EASEMENT
	REFORESTATION PLANTING AREA

REQUIRED PLANTINGS ARE DESIGNATED WITH SINGLE LETTERS.
 SUPPLEMENTAL PLANTINGS ARE DESIGNATED WITH DOUBLE LETTERS.

U.S. ROUTE 40
 Baltimore National Pike
 (EX. 200' R/W)

P/O FOREST CONSERVATION EASEMENT AREA #5
 TOTAL AREA: 1.1653 AC ± (1.0 THIS PORTION)
 RETENTION: 0.4997 AC ± (0.4 THIS PORTION)
 REFORESTATION: 0.5000 AC ±
 LANDSCAPE OPTION 7213 SF / 0.1656 AC (5300 SF THIS PORTION)



ENGINEER'S CERTIFICATE
 I certify that this plan for the proposed development and its sediment control represents a practical and workable plan for the proposed development and its sediment control. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the Howard Soil Conservation District of the proposed development and its sediment control plan. I shall engage a registered professional engineer to supervise the construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize public on-site inspection by Howard Soil Conservation District.

David R. Williams 6/25/03
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at 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 public on-site inspection by Howard Soil Conservation District.

David R. Williams 6/25/03
 SIGNATURE OF DEVELOPER DATE

REVISIONS

No.	Date	Description
1	1/2/03	ADD ROOF DRAIN COLLECTION PIPES

Subdivision Name:	ST. JOHN THE EVANGELIST BAPTIST CHURCH	Block/No.	16	Zone	RC-DEO	Tax Map No.	16	Election District	3rd	Census Tract	6030	
Water Code	J02	Sewer Code	N/A									

LDE, INC.
 9250 Rumsay Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

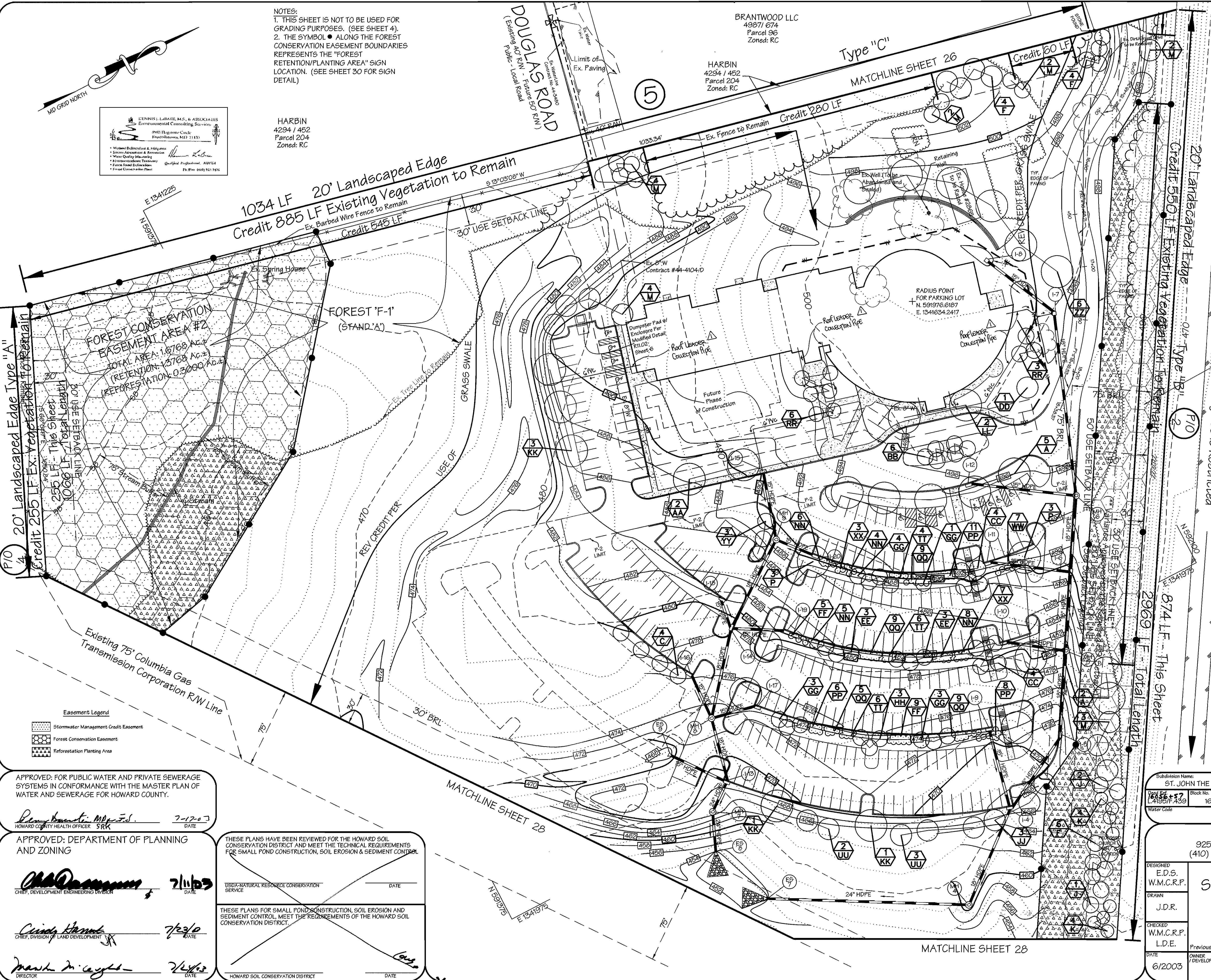
DESIGNED: E.D.S. W.M.C.R.P.
 DRAWN: J.D.R.
 CHECKED: W.M.C.R.P.
 DATE: 6/2003

ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64Y, WP 03-06, F 03-96

OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lorraine King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045

SCALE: 1" = 40'
 DRAWING: 27 of 33
 JOB NO.: 00-003
 FILE NO.: SDP 02-05



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

Howard County Health Officer 7-17-03
 HOWARD COUNTY HEALTH OFFICER: SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 7/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chief, Division of Land Development 7/23/0
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Director 7/14/03
 DIRECTOR DATE

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

USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

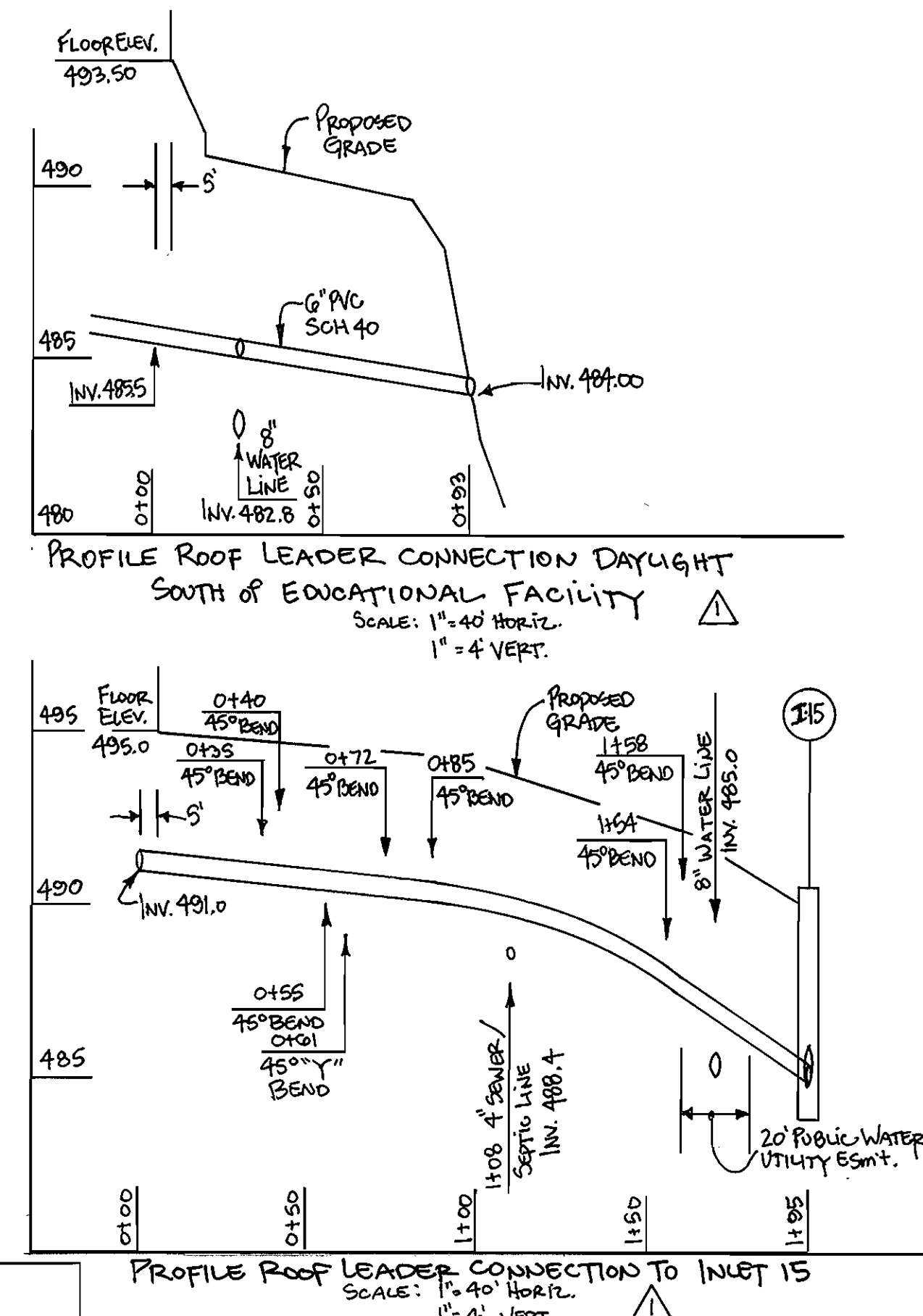
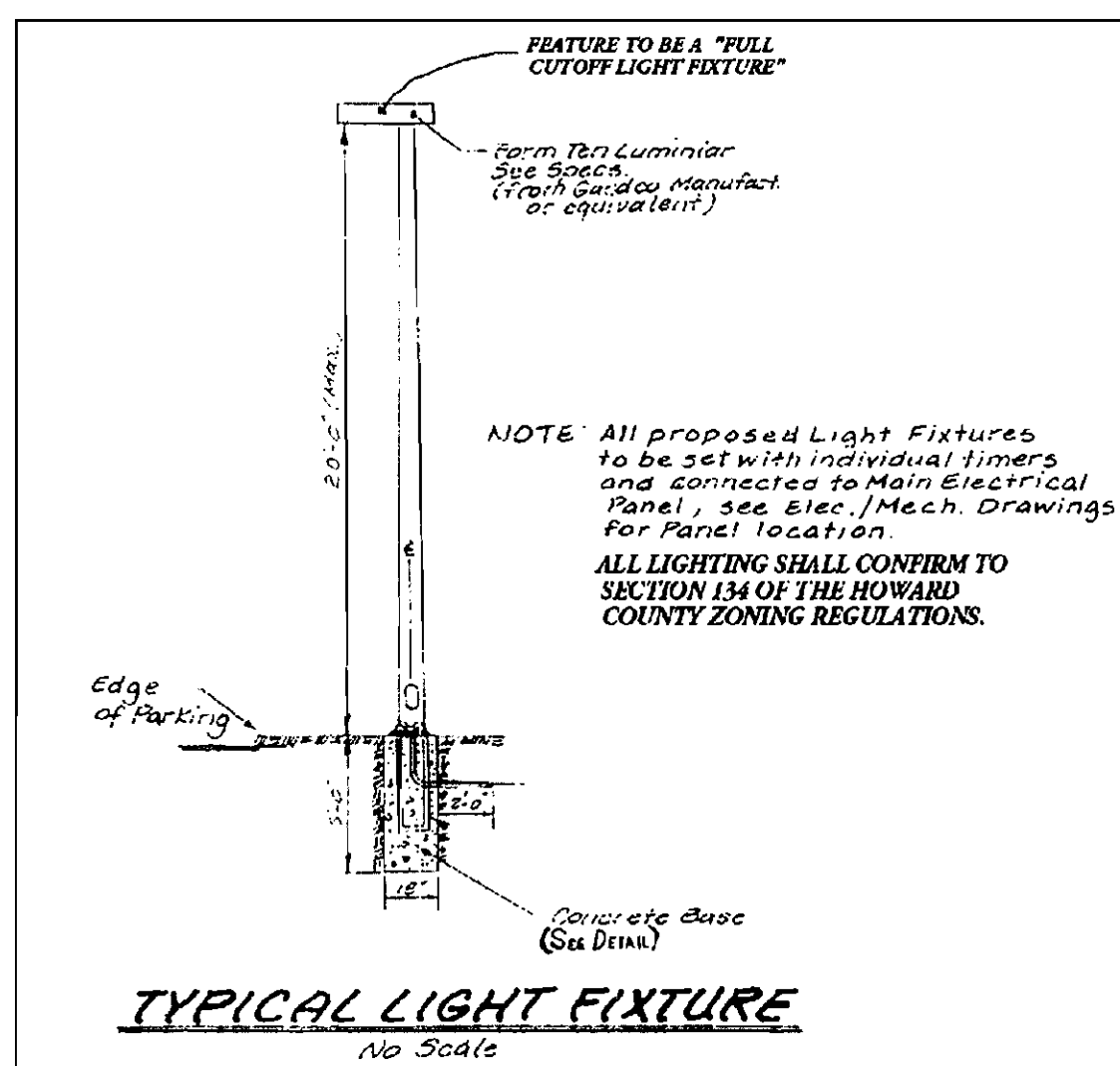
HOWARD SOIL CONSERVATION DISTRICT

TREE PLANTING NOTES

- Notify "Miss Utility" 72 hours prior to installation of all plant material.
- Plant installation must conform to the minimum standards cited in the latest edition of Landscape Specification Guidelines, published by the Landscape Contractors Association.
- Plants to be located in the field by the owner or owner's representative. Notify owner 72 hours in advance of planting.
- A Certification of Landscape Installation is required as per the Howard County Landscape Ordinance.
- The number, size, location of plants shall not be changed without the approval of the Landscape Architect. Substitutions must be included in the recommended plant list in the Howard County Landscape Ordinance.
- Trees may not be planted within 5 feet of drain inlets, 5 feet of an open space access strip and 10 feet of a driveway.
- Balled and burlapped plant material shall not be accepted if ball is cracked or broken before or during planting. Protect all plants from drying by either sun or wind.
- Tree pits shall be backfilled with 50% topsoil, 25% peat 25% sand with one pound of 10-10-10 fertilizer per pit.
- Top soil shall be sandy loam soil free from noxious weeds or grasses, roots, clay clumps, stones, sticks, etc. Peat moss shall be commercial with pH 4.5 to 5.5, free of heavy material or harmful minerals.
- All plants shall be watered at planting with weekly watering thereafter for the first 80 days. Watering shall continue bimonthly or as necessary to maintain plants in a healthy condition during the guarantee period.
- Maintain the site in an orderly manner. Streets and sidewalks shall be swept clean. All rejected or dead materials shall be immediately removed from the site.
- Plant material to be alive and healthy at the time of the guarantee period (one year), as specified in the Howard County Landscape Ordinance.
- Maintenance shall begin immediately after planting and continue to the end of guarantee period.
- Maintenance consist of pruning, watering weeding, re-mulching, resetting plants to proper grades as needed and repairing guys and staked as needed.

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING (Pond #1)	
Linear Feet of Perimeter	500 LF
Number of Plants Required Shade Trees 1:50 Evergreen Trees 1:40	10 Shade 13 Evergreen
Credit for Existing Vegetation (Yes, No and %)	NO
Credit for Other Landscaping (Yes, No and %)	NO
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	10 Shade 14 Evergreen

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING (Pond #2)	
Linear Feet of Perimeter	1,100 LF
Number of Plants Required Shade Trees 1:50 Evergreen Trees 1:40	22 Shade 28 Evergreen
Credit for Existing Vegetation (Yes, No and %)	Yes, 200 LF
Credit for Other Landscaping (Yes, No and %)	No
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	16 Shade 22 Evergreen 4 Small



ST JOHN BAPTIST SUPPLEMENTAL PLANT LIST

KEY	QUAN	BOTANICAL NAME/Common Name	SIZE	ROOT	COMMENTS
AA	2	ACER saccharum 'Legacy'/Legacy Sugar Maple	2"-2 1/2" Cal	B&B	
BB	6	AMELANCHIER x grandiflora 'Cumulus'/Cumulus Serviceberry	6'-8"	B&B	Single Stem
CC	8	CARPINUS caroliniana/American Hornbeam	1 1/2"-2" Cal	B&B	
DD	1	CEDRUS libanii/Cedar of Lebanon	6'-7"	B&B	
EE	6	CERCIS canadensis/Redbud	6'-7"	B&B	Multi-stem
FF	14	CORNUS baileyi/Bailey's Red Twig Dogwood	2 1/2'-3'	B&B	
GG	11	CORNUS mas/Comelian Cherry	6'-7"	B&B	Multi-stem
HH	3	COTINUS coggygia/Smokebush	2 1/2'-3'	B&B	
JJ	3	CRYPTOMERIA japonica 'Yochino'/Yochino Cryptomeria	6'-8"	B&B	
KK	5	FRAXINUS americana 'Autumn Purple'/Autumn Purple	2"-2 1/2" Cal	B&B	
LL	8	FRAXINUS pennsylvanica 'Summit'/Summit Ash	2"-2 1/2" Cal	B&B	Uniform
MM	32	ILEX glabra 'Nigra'/Nigra Inkberry	18"-24"	B&B	
NN	23	ILEX glabra / Inkberry	2 1/2'-3'	B&B	
PP	25	ILEX verticillata/Winterberry	2 1/2'-3'	B&B	
QQ	32	JUNIPERUS chinensis 'Sea Green'/Sea Green Juniper	18"-24"	CONT	
RR	9	LAEGESTROMIA x 'Natchez'/Natchez Crape Myrtle	6'-8"	B&B	
SS	492	LIRIOPE muscari 'Big Blue'/Big Blue Liriope	Qt		12" OC
TT	16	MYRICA pennsylvanica/Northern Bayberry	2 1/2'-3'	B&B	
UU	5	PINUS strobus/Eastern White Pine	6'-7"	B&B	
VV	20	TAXUS baccata 'repandens'/Spreading English Yew	18"-24"	B&B	
WW	7	VIBURNUM lantana/Wayfaringtree	2 1/2'-3'	B&B	
XX	10	VIBURNUM dentatum/Arrowwood	2 1/2'-3'	B&B	
YY	3	CORNUS kousa/Kousa Dogwood	6'-7"	B&B	

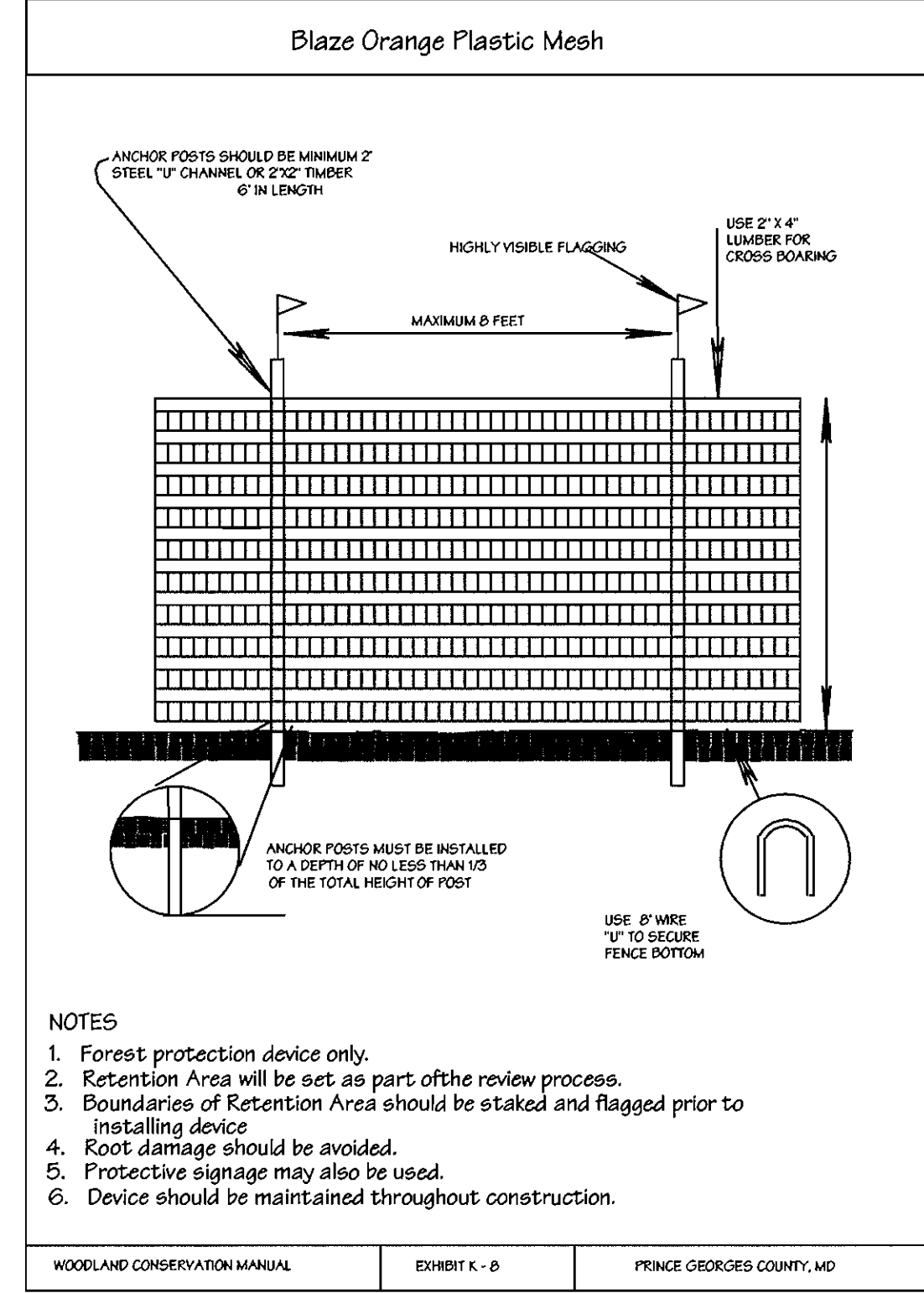
ST JOHN BAPTIST PERIMETER & PARKING PLANT LIST

KEY	QUAN	BOTANICAL NAME/Common Name	SIZE	ROOT	COMMENTS
A	30	ACER rubrum/October Glory/October Glory Red Maple	2 1/2"-3" Cal	B&B	
B	17	AMELANCHIER canadensis/Serviceberry	1 1/2"-2" Cal	B&B	Multi-stem
C	4	CARPINUS caroliniana/American Hornbeam	1 1/2"-2" Cal	B&B	
D	18	CERCIS canadensis/Redbud	1 1/2"-2" Cal	B&B	
F	22	CRATAEGUS phaenopyrum/Washington Hawthorn	1 1/2"-2" Cal	B&B	Multi-stem
G	8	CRYPTOMERIA japonica 'Yochino'/Yochino Cryptomeria	6'-8"	B&B	
J	21	HALESIA carolina/Carolina Silverbell	1 1/2"-2" Cal	B&B	Multi-stem
K	73	ILEX x Nellie R. Stevens/Nellie Stevens Holly	5'-6"	B&B	
M	70	PINUS strobus/Eastern White Pine	6'-8"	B&B	
N	28	QUERCUS palustris/Pin Oak	2 1/2"-3" Cal	B&B	
P	8	QUERCUS rubra/Northern Red Oak	2 1/2"-3" Cal	B&B	

SCHEDULE A PERIMETER LANDSCAPE EDGE			
Category	Adjacent to Roadways	Adjacent to Perimeter Properties	
Landscape Type	'B'	'B'	'C'
Linear Feet of Roadway Frontage / Perimeter	3,696 LF	1,987 LF	2,478 LF
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	Yes 2,795 LF	Yes 1,610 LF	Yes 885 LF
Credit for walk, fence or berm (Yes, No Linear Feet) (Describe below if needed)	No	No	No
Number of Plants Required Shade Trees Evergreen Trees Shrubs	74 Shade 92 Evergreen	39 Shade 50 Evergreen	62 Shade 124 Evergreen
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	CREDIT AREAS AND 6 Shade 23 Evergreen 29 Small	CREDIT AREAS AND 7 Shade 9 Evergreen	CREDIT AREAS AND 21 Shade 75 Evergreen 44 Small

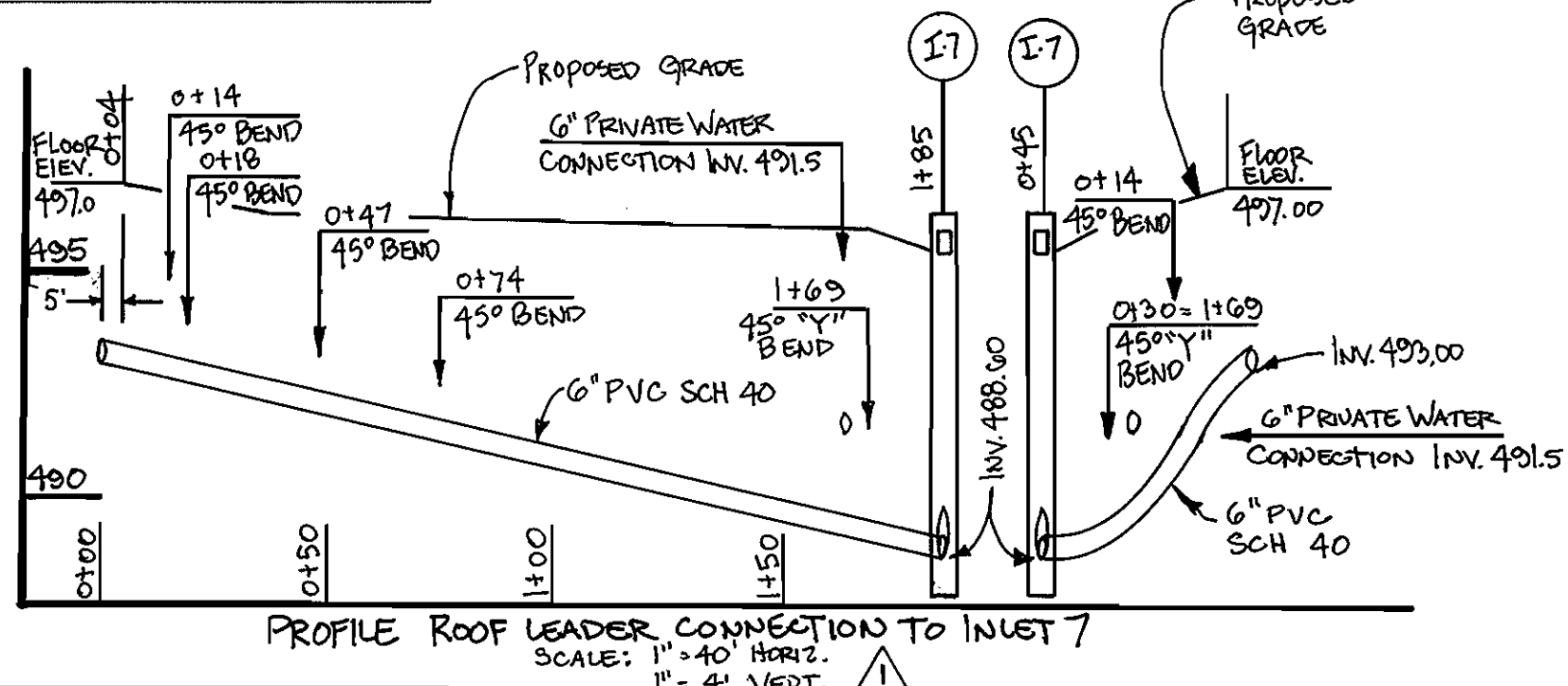
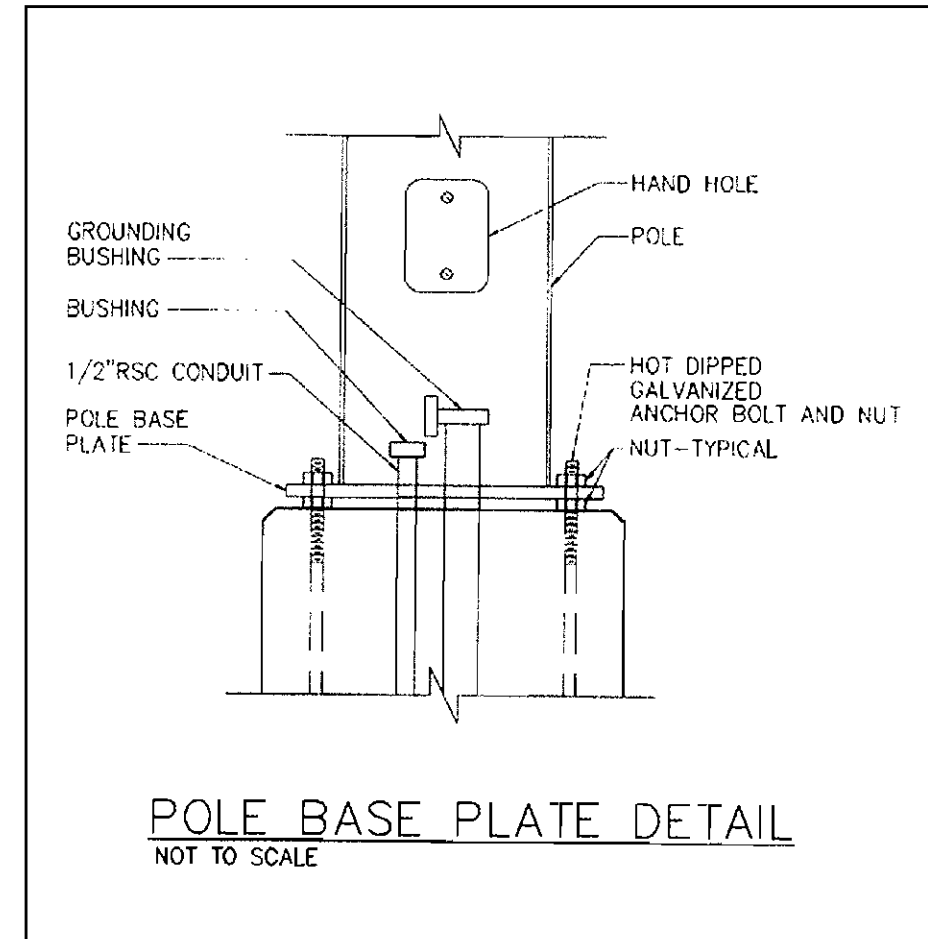
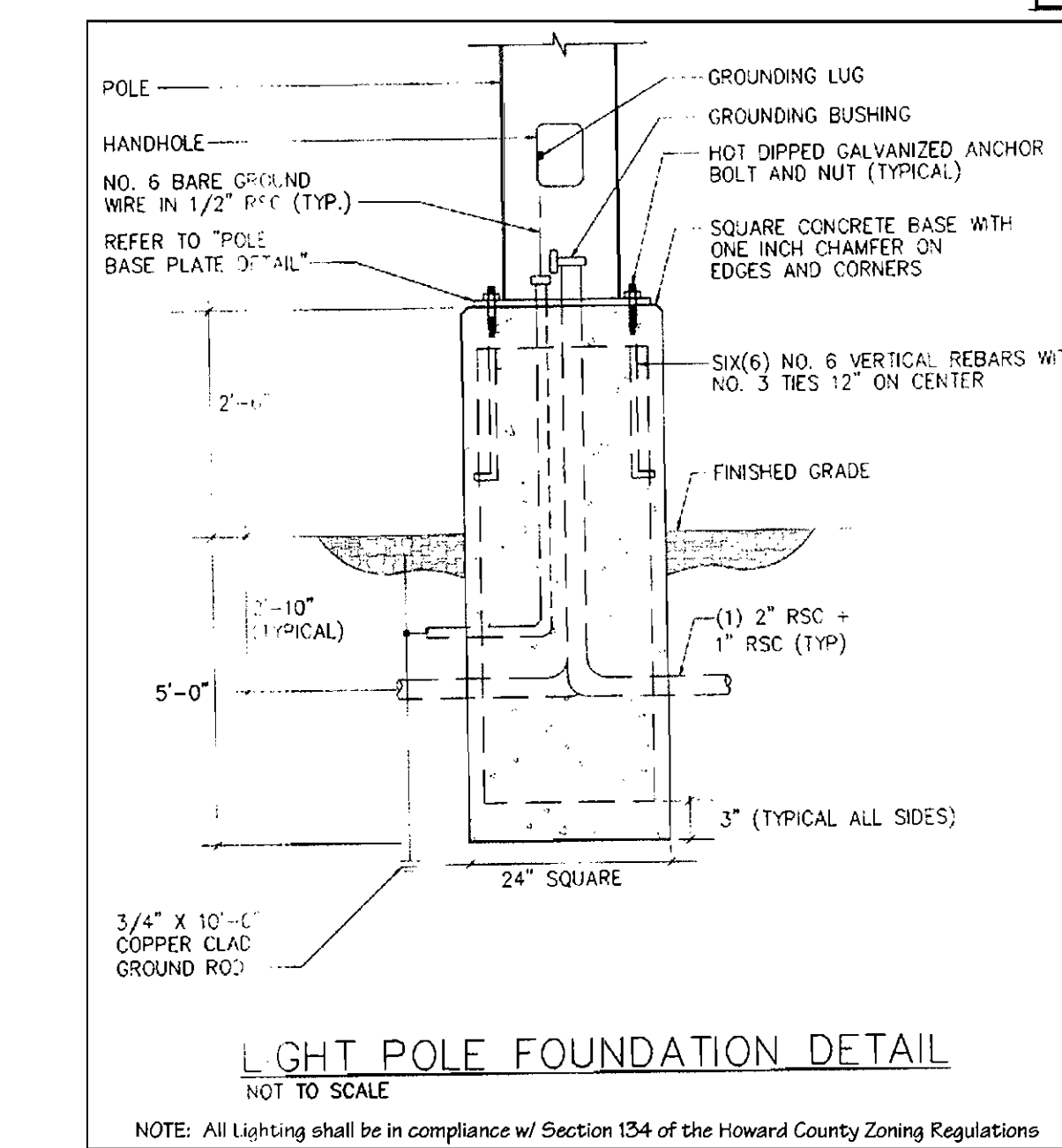
SCHEDULE A PERIMETER LANDSCAPE EDGE (Dumpster Screening)		
Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	N/A	'D'
Linear Feet of Roadway Frontage / Perimeter	N/A	44 LF
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	N/A	No
Credit for walk, fence or berm (Yes, No Linear Feet) (Describe below if needed)	N/A	No
Number of Plants Required Shade Trees Evergreen Trees Shrubs	N/A	0 Shade 4 Evergreen 0
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	N/A	4 Evergreen

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING		
Number of parking spaces	248	
Number of trees required	13	
Credit for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	NO	11 Shade 4 Small PROVIDED



PERIMETER SUMMARY					
No.	Buffer Type	Linear Feet / Buffer Type	Required Plants	Provided Plants	Comments
1	"B"	727 LF	15 Shade 19 Evergreen	8 Shade 8 Evergreen 9 Small	(1) Pond #1
2	"B"	2,969 LF	59 Shade 74 Evergreen	2 Shade 15 Ever 20 Small	(2)
3	"A"	921 LF	16 Shade	7 Shade 9 Evergreen	(3)
4	"A"	1,066 LF	18 Shade	0	(4)
5	"C"	1,034 LF	26 Shade 52 Evergreen	4 Shade 4 Ever 4 Small	(5)
6	"C"	1,444 LF	36 Shade 72 Evergreen	17 Shade 71 Ever 40 Small	
Tot.		8,161 LF	175 Shade 266 Evergreen	34 Shade 107 Evergreen 73 Small	

- Comments:
- Credit for 400 LF existing vegetation to remain= 8 Shade 10 Evergreen
 - Credit for 2,395 LF existing vegetation to remain= 47 Shade 59 Evergreen
 - Credit for 315 LF existing vegetation to remain= 5 Shade
 - Credit for 1,045 LF existing vegetation to remain= 18 Shade
No plantings allowed in RW
 - Credit for 885 LF existing vegetation to remain= 22 Shade 44 Evergreen



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/11/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 7/24/03
DIRECTOR

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

USDA/NATURAL RESOURCE CONSERVATION SERVICE

DATE: _____

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

HOWARD SOIL CONSERVATION DISTRICT

DATE: _____

ENGINEER'S CERTIFICATE

I certify that this plan for... represents a practical and workable... of the site conditions. This plan was prepared in accordance with the Howard County Conservation District. I have notified... and engage a registered professional engineer to supervise... provide... Howard Soil Conservation District and... provide... Howard Soil Conservation District.

[Signature] 6/25/03
DATE

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at 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... provide... Howard Soil Conservation District with an "as-built" of the ponds... also subject to public inspection by Howard Soil Conservation District.

[Signature] 6/25/03
DATE

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
DAVID B. BROWN
6/25/03

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

[Signature] 7-2-03
HOWARD COUNTY HEALTH OFFICER, SRK

REVISIONS		
No.	Date	Description
1	11/2003	ADD ROOF DRAIN CONNECTION PROFILES

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Section/Area: _____	Parcel No.: 203
Block No.: 16	Zone: RC-DEO	Tax Map No.: 16
Water Code: J02	Election District: 3rd	Census Tract: 6030
sewer Code: _____	Parcel No.: _____	Parcel No.: _____

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: W.M.C.R.P. L.D.E.
DRAWN: J.L.M. J.D.R.
CHECKED: B.D.B.
DATE: 6/2003

SCALE: As Shown
DRAWING: 29 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

ST. JOHN THE EVANGELIST BAPTIST CHURCH
Phase One & Two
L4195/F.439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland

Previous Submittals: BA 97-46E, BA 003-36E, BA 01-64V, WF 03-06, F 03-96

OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lennie King Jr.
8910 Old Annapolis Road / MD, Route 10B
Columbia, Maryland 21045

NOTES:

1. REFER TO SHEET 32 FOR PRIVATE WATER AND SEWER SYSTEM NOTES.
2. THIS PLAN IS FOR PURPOSE OF PRIVATE SEWAGE SYSTEMS AND PRIVATE WATER SYSTEM PLACEMENT ONLY.
3. THIS SHEET SHALL NOT BE USED FOR GRADING. SEE SHEET 4.
4. A FULL TIME PRIVATE INSPECTOR IS TO BE PROVIDED ON-SITE DURING ALL PHASES OF SEPTIC SYSTEM CONSTRUCTION. DURING SEPTIC SYSTEM CONSTRUCTION, THE HOWARD COUNTY HEALTH DEPT. IS TO BE KEPT INFORMED, ON A DAILY BASIS, OF THE PROCESS OF INSTALLATION, TO BETTER COORDINATE ITS INSPECTION EVENTS.
5. THE EXISTING UNDERGROUND & ABOVE GROUND FUEL OIL STORAGE TANKS SERVING THE EXISTING DWELLING SHALL BE REMOVED IN ACCORDANCE WITH APPROVED STATE & FEDERAL REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS FOR TANK REMOVAL.

THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO ADJUST THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY. THE EASEMENT CONSISTS OF 199,650 S.F.

Easement Legend
 Stormwater Management Credit Easement
 Forest Conservation Easement
 Reforestation Planting Area

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
Dennis M. Smith 7/17/03
 HOWARD COUNTY HEALTH OFFICER SRK DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Dammann 7/11/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Cindy Hamilton 7/23/03
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
David R. Vogel 7/23/03
 DIRECTOR DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
 USDA-NATURAL RESOURCE CONSERVATION SERVICE DATE
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT DATE

LEGEND

	EX. 2FT. CONTOUR
	PROP. 2FT. CONTOUR
	EX. 10FT. CONTOUR
	EX. TREES
	EX. TREES TO REMAIN
	STANDARD CURB & GUTTER
	EX. STREAM
	75' FT. STREAM BUFFER
	BOUNDARY LINE
	RIGHT OF WAY
	EXISTING PAVING
	EX. FENCE LINE
	PROPOSED STORM DRAIN
	EX. TELEPHONE POLE
	PERCOLATION TEST LOCATION (PASSED)
	PERCOLATION TEST LOCATION (FAILED)
	PERCOLATION TEST LOCATION (FAILED-ROCK, SAPROLITE)

U.S. ROUTE 40
 Baltimore National Pike
 PUBLIC - INTERMEDIATE ARTERIAL (EX. 200' R/W)
 Vehicular Ingress & Egress is Restricted
 EXISTING EASTBOUND TRAVEL LANES
 F/O PRIVATE FOREST CONSERVATION EASEMENT AREA #5 AND STORMWATER MANAGEMENT CREDIT EASEMENT 11653 AC.±



ENGINEER'S CERTIFICATE
 I certify that this plan for proposed development and/or construction represents a practical and workable plan for 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 the proposed project and have obtained their approval. I am a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan on the day of completion. I also authorize pond construction.
David M. Smith 6/25/03
 SIGNATURE OF ENGINEER DATE

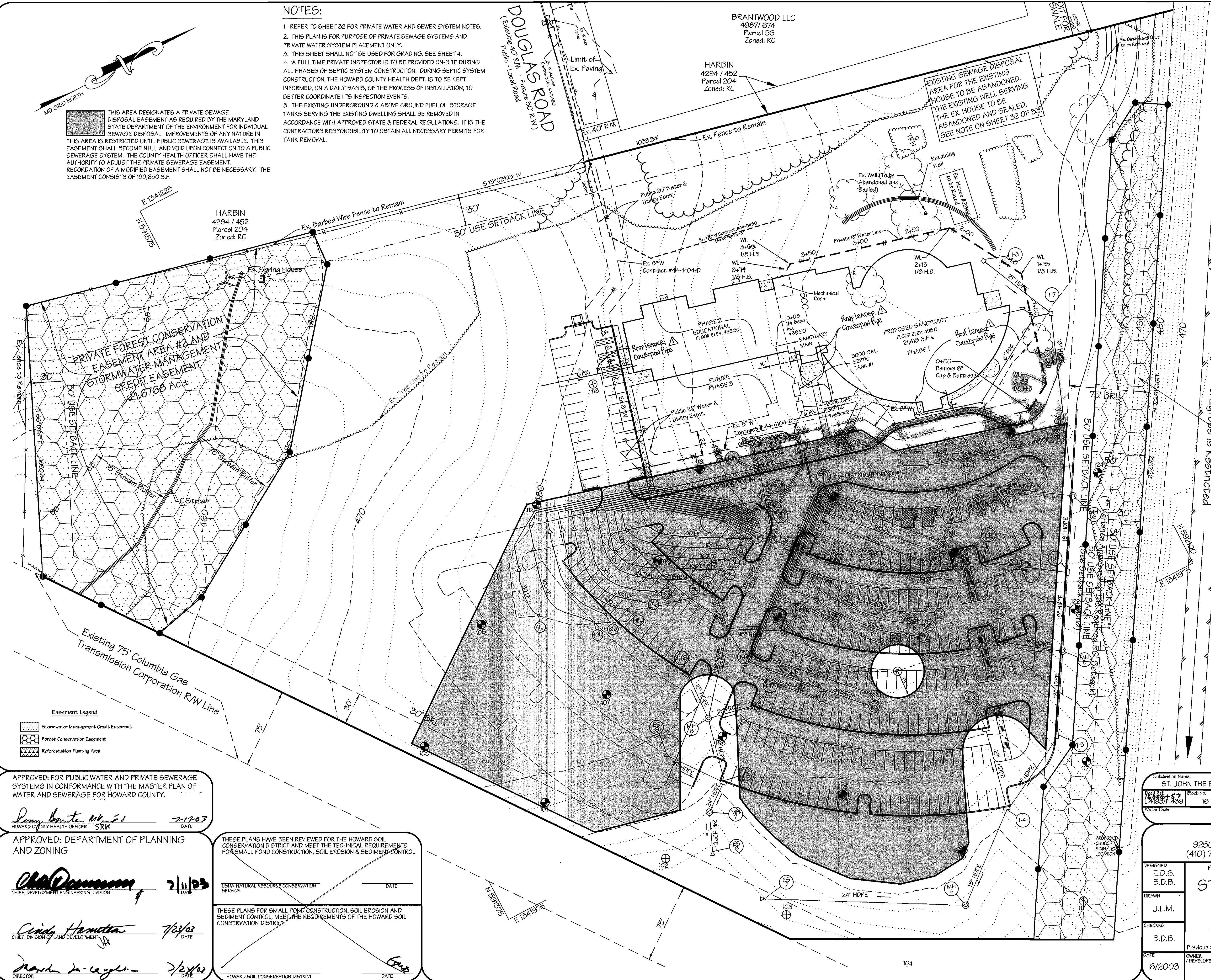
DEVELOPER'S CERTIFICATE
 We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan on the day of completion. I also authorize pond construction.
David M. Smith 6/25/03
 SIGNATURE OF DEVELOPER DATE

REVISIONS

No.	Date	Description
1	11/20/03	ADD ROOF DRAIN COLLECTION PIPES AND REVISE PRIVATE WL

Subdivision Name:	ST. JOHN THE EVANGELIST BAPTIST CHURCH	Sect./Area:		Parcel No.:	203
Block No.:	16	Zone:	RC-DEO	Tax Map No.:	16
Water Code:	J02	Cover Code:	N/A	Election District:	3rd
				Genus Tract:	6030

LDE, INC.
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)
 Private Water Service Connection & Private Sewage System Plan
ST. JOHN THE EVANGELIST BAPTIST CHURCH
 Phase One & Two
 L. 4195/F. 439
 Tax Map No. 16 - Grid No. 16 - Parcel 203
 3rd Election District - Howard County, Maryland
 Previous Submittals: BA 97-46E, BA 00-36E, BA 01-64V, WP 03-06, F 03-96
 OWNER/DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
 c/o Mr. Lonnie King Jr.
 8910 Old Annapolis Road / MD. Route 108
 Columbia, Maryland 21045
 SCALE: 1" = 40'
 DRAWING: 31 of 33
 JOB NO.: 00-003
 FILE NO.: SDF 02-05
 DATE: 6/2003



WATER & SEWER NOTES

PART I: GENERAL

- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates. [North American Datum of 1983 (NAD83)].
- All vertical controls are based on U.S.G.S. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 20" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for tracing of poles as shown on the drawings. In the event the Contractor's work requires the bracing of additional poles, any costs incurred by the Owner for tracing of additional poles or damages shall be deducted from money owned the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (latest edition). The Contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor two weeks in advance of construction operations at his own expense.
- Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
 - S.H.A. (410) 531-5533
 - B.G.E. (Contractor Services): (410) 850-4820
 - B.G.E. (Underground damage control): (410) 787-9068
 - Miss Utility: 1-800-257-7777
 - Colonial Pipeline Company: (410) 795-1390
 - Howard County Dept. of Public Works, Bureau of Utilities: (410) 313-4900
 - Bell Atlantic: 1-800-446-5386
 - Howard County Health Department: (410) 313-6300
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs within the construction strip are not to be removed or damaged by the Contractor.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- Contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

PART II: WATER

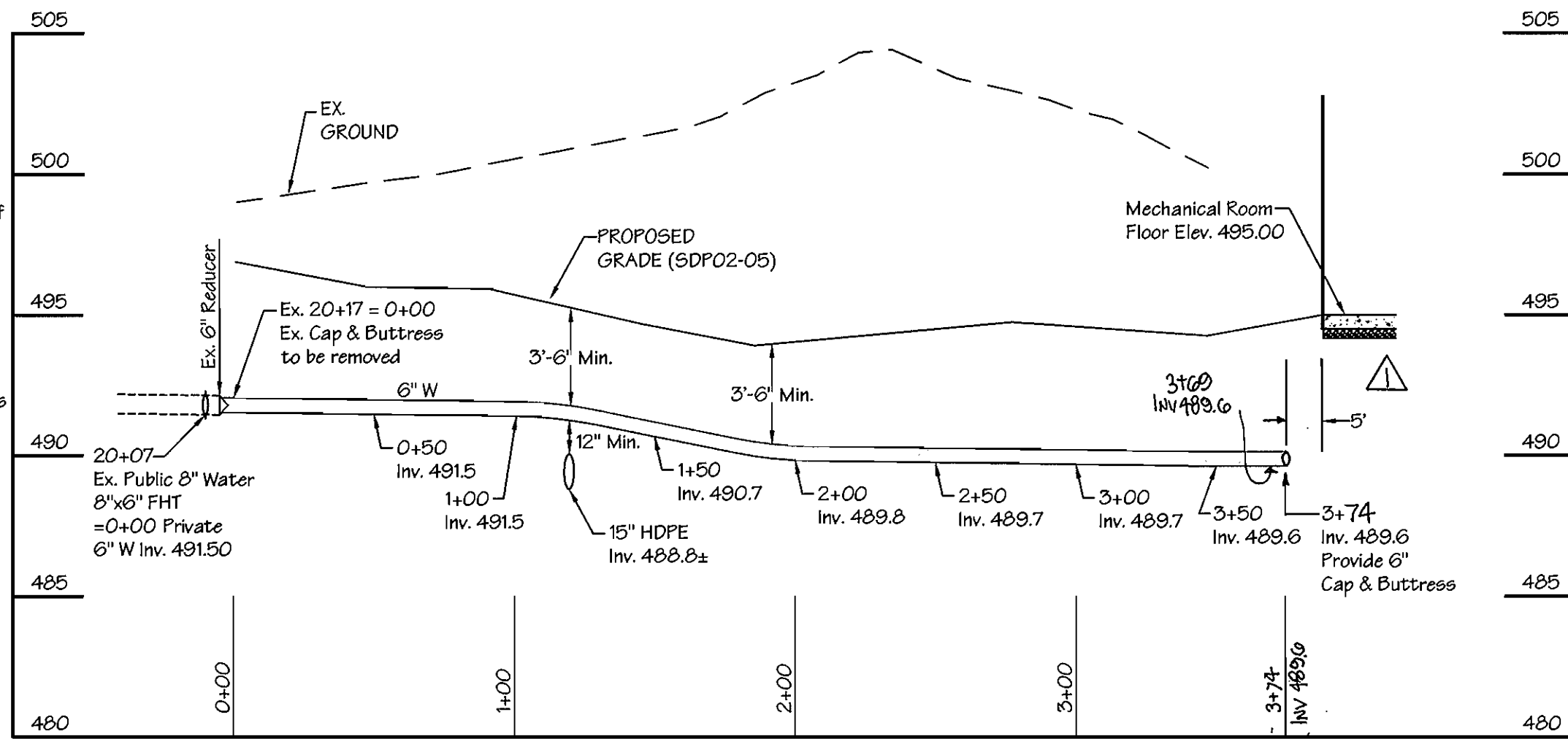
- Unions, couplings and other fittings for copper tubing shall be the copper service thread type as manufactured by the Mueller Company, Ford Meter Box Company, A.Y. McDonald Manufacturing Company, Zurn Industries Hays Water Service Products, or approved equal, unless otherwise shown or directed. Three part unions will be used in lieu of two part unions and will be Mueller H-15405, Ford C22 series, McDonald 4753, Hays 5615, or approved equal.
- A water meter shall be installed on an incoming line in an accessible location.
- The existing well (HO 73-1212) serving the existing Parsonage shall be abandoned and sealed, in accordance with approved Howard County Health Department procedures.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- The Contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

PART III: SEWER

- All sewer mains to be D.I.P., and P.V.C. unless otherwise noted.
- All proposed sewers shall be private.
- All manholes shall be 4'0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes designated W.T. in plan and profile shall have water tight frame and covers; Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 16" above finished grade unless otherwise noted on the drawings.
- Manholes shown with 12" and 16" walls are for brick manholes only.

ADDITIONAL NOTES:

- The Developer or Developer's Contractor shall provide a full time private inspector who is qualified to inspect large septic system designs. This individual is to be provided on site during all phases of septic system construction. During septic system construction, the Howard County Health Department is to be kept informed, on a daily basis, of the progress of installation to better coordinate its inspection events.
- The contractor shall as-built the septic trench portion and the collection portion of the private septic system, and receive approval from the Howard County Health Department prior to the connection to the existing buildings for service.
- The vertical elevation of the proposed parking lot within the proposed private sewage disposal easement will be restricted to a minimum of four feet of cover from the trench inlet to the bottom of the proposed paved surface.
- All trenches shall have aeration vents installed. All vents within paving shall be traffic bearing capacity.
- The existing sewage disposal system servicing the existing dwelling shall be abandoned properly. The existing distribution box shall be removed, any distribution trenches within the existing system may remain in place, however, any lines cut or otherwise disturbed and any associated discharge or contaminated soil shall be disposed of in accordance with approved Howard County Health Department and/or Maryland Department of the Environment (MDE) procedures. The septic tank and distribution box shall be pumped and collapsed. The location of any drain fields shall also require removal in accordance with approved Health Department procedures. If sewage filled soils are encountered, these soils cannot be transported offsite; but may be removed and immediately buried elsewhere on site, as long as a public health nuisance is not created. The contractor shall be responsible for proper abandonment procedures, notification, reporting to the Howard County Health Department of the existing septic systems and proper connection of the sewer from the existing sanctuary, parsonage and fellowship hall to the new septic system.
- All pressure sewer shall be SDR 21, PVC, solvent welded.
- All pressure sewers to be pressure tested according to the Howard County Department of Public Works Standards and Specifications.
- The contractor shall notify Howard County Health Department at (410) 313-2640 at least five (5) working days before any pressure test of pressure sewers, and before any septic tanks vacuum or water testing is performed.
- The contractor shall be responsible for the requirements and method of installation of pump chamber and all of its appurtenances.
- Where pumps are required:
 - The control panel for the pump shall be mounted on the side of the building nearest to the pump. The pump shall have an elapsed time meter and event counter.
 - Clear view of the pump chamber shall be maintained.
 - St. John the Evangelist Baptist Church shall own and maintain the control panel.
 - The electric service to the panel and the buried cables to the pump chamber shall be installed by the contractor.
 - A disconnect panel, separate from the pump panel must be located on the outside of the building adjacent to the pump control panel. This disconnect shall only feed the pump control panel, and shall be outfitted with a lock.
 - The pump shall be installed by a County approved utility contractor prior to final building inspection, and tested by the manufacturer prior to issuance of a Use & Occupancy for the new building construction.
 - In the event there is water or debris in the pump chamber prior to setting of the pump, the contractor shall pay for the chamber to be pumped.
 - ALL COST associated with the maintenance of the pump shall be borne by the owner - St. John the Evangelist Baptist Church.
- The relocated sewage disposal system will require a dual lift pump system with visual and audible alarms at time of installation. The high water alarm is to be installed on a separate circuit from the pump. The pump size will be determined by the manufacturer prior to issuance of the septic system permit.
- The Sanctuary and Future Phases which will utilize the sewage disposal area (A 514914) as shown herein provides for a maximum seating capacity of 1025 parishioners at a 3 gallon per day per seat loading rate. The design flow for the proposed system is 4995 gallons per day. The design flow will not change for the future phases to the project.
- The proposed sewage disposal system provides the required trench length for the maximum 4,995 GPD design flow. The required trench length, 2,082 LF, is provided in two (2) separate cells, each cell contained 1,050 LF of trench. Per the requirements for "Big System" design, the proposed dual lift pump system will keep one 1,050 LF septic trench cell at rest while the other 1,050 LF septic trench cell is active. The total trench length provided is 2,100 LF or 100% of the Maximum Design Flow. This length of trench exceeds the required length for the maximum volume, as the maximum design flow would occur for Phase One & Two, at most, one day of the week. In addition, Council Resolution allows religious facilities adjacent to the planned Service Area to connect to the public sewer system. In deference to St. John the Evangelist Baptist Church's desire to pursue a future connection to the public system, the Howard County Health Department has waived the requirement of drain field sizing equal to 150% of the maximum design flow. Since the church is actively pursuing connection to the public sewer system, septic system longevity is not an issue.

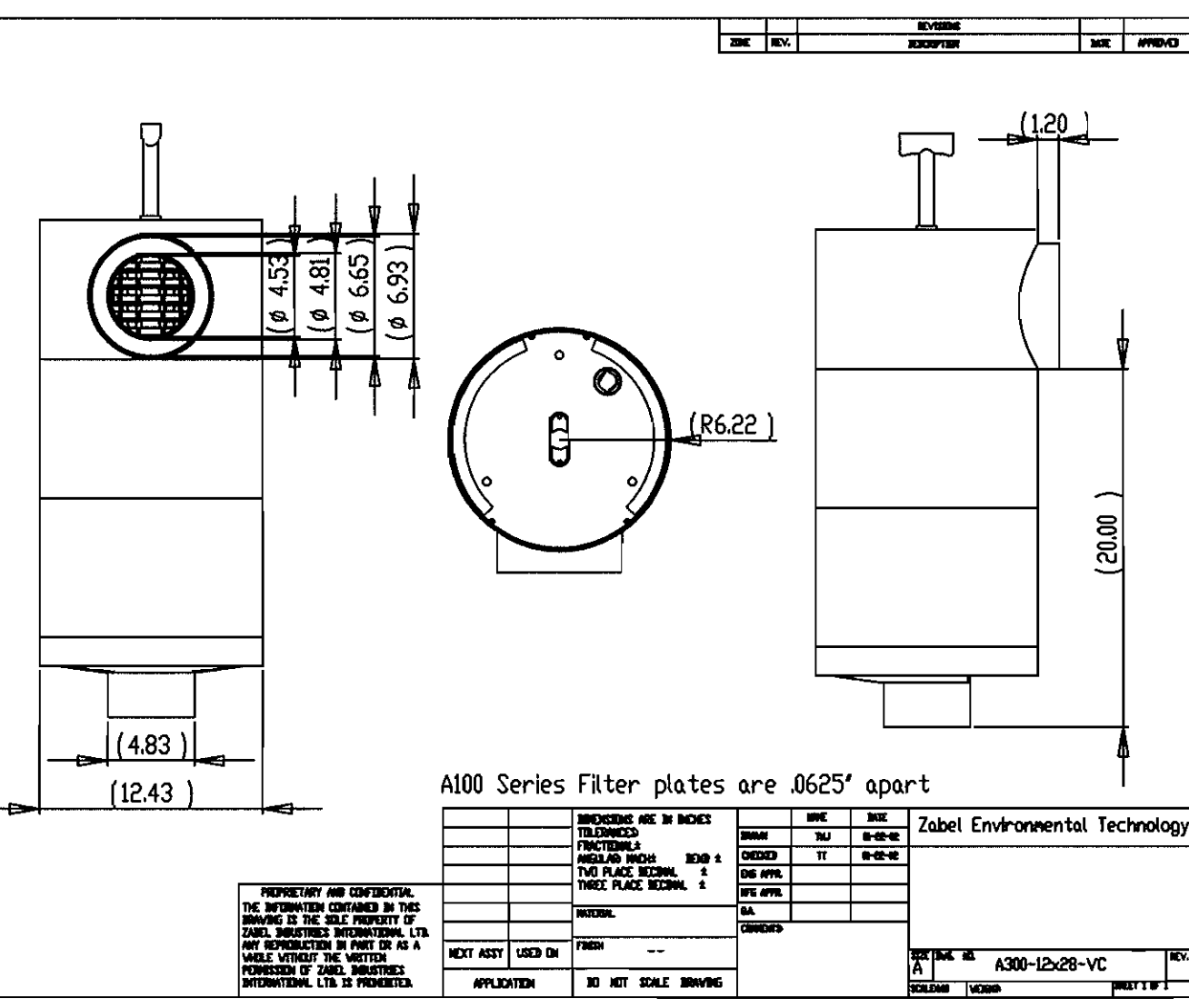


6" Private Water Service to Sanctuary From Existing Contract #44-4104D

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TRENCH DESIGN	
Maximum Sewage Flow	Minimum Trench Length
PHASE 1 - 2295 GPD	2295 / 0.8 / 3.0' Depth = 957'
PHASE 2 - 4995 GPD	4995 / 0.8 / 3.0' Depth = 2082'
PHASE 3 - 4995 GPD	4995 / 0.8 / 3.0' Depth = 2082'

Construction Phase	SEWAGE DESIGN FLOW CALCULATIONS	
	Total Predicted Population	Max. Sewage Flow
Phase 1: Sanctuary / (Sunday) Admin. Staff (Mon. - Fri.) Mid Week Prayer Service / (Wed. PM)	735 Parishioners / Service x 3 GPD Admin. Employees 6 People x 15 GPD 735 Parishioners x 3 GPD	2295 GPD (Sunday) 2295 GPD (Mon. - Fri.)
Total Design Flow		2295 GPD
Phase 2: Sanctuary / (Sunday) Admin. Staff (Mon. - Fri.) Mid Week Prayer Service / (Wed. PM) Educational Bldg. / (Mon. - Fri.)	735 Parishioners / Service x 3 GPD Admin. Employees 6 People x 15 GPD 735 Parishioners x 3 GPD 180 Students x 15 GPD	2295 GPD (Sunday) 2790 GPD (M. T. Th. & Fr.) 4995 GPD (Wed. Only)
Total Design Flow		4995 GPD
Phase 3: Sanctuary Expansion / Fellowship Hall / (Sunday) Admin. Staff (Mon. - Fri.) Mid Week Prayer Service / (Wed. PM) Educational Bldg. / (Mon. - Fri.)	1025 Parishioners / Service x 3 GPD Admin. Employees 6 People x 15 GPD 735 Parishioners x 3 GPD 180 Students x 15 GPD	3075 GPD (Sunday) 2790 GPD (M. T. Th. & Fr.) 4995 GPD (Wed. Only)
Total Design Flow		4995 GPD



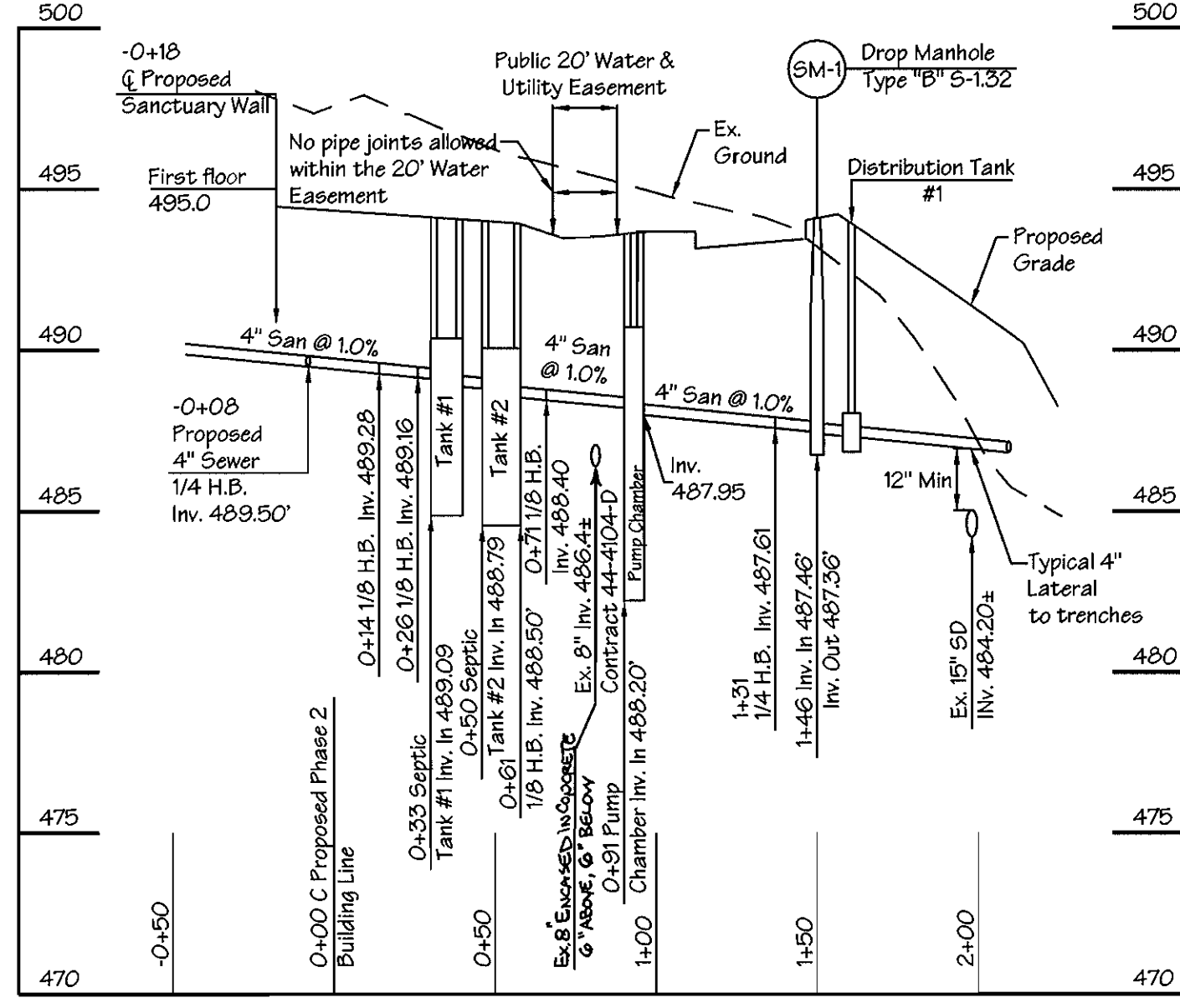
Zabel® Recommendation: Any configuration of Risers used should not exceed 48" in height.

The product(s) shown are covered by one or more of the following patents:
U.S. 5,380,257; 5,683,577; 5,890,453; 5,842,716; 5,591,331; 4,710,295; 5,593,584; U.S. Des. 388,241; 349,667; 480,501; 508,568; Des. 30,907; Canadian: 2,135,937 New Zealand: 264824; Other Patents Pending

Zabel® A100 Series Commercial & Residential Effluent Filter Product Specification

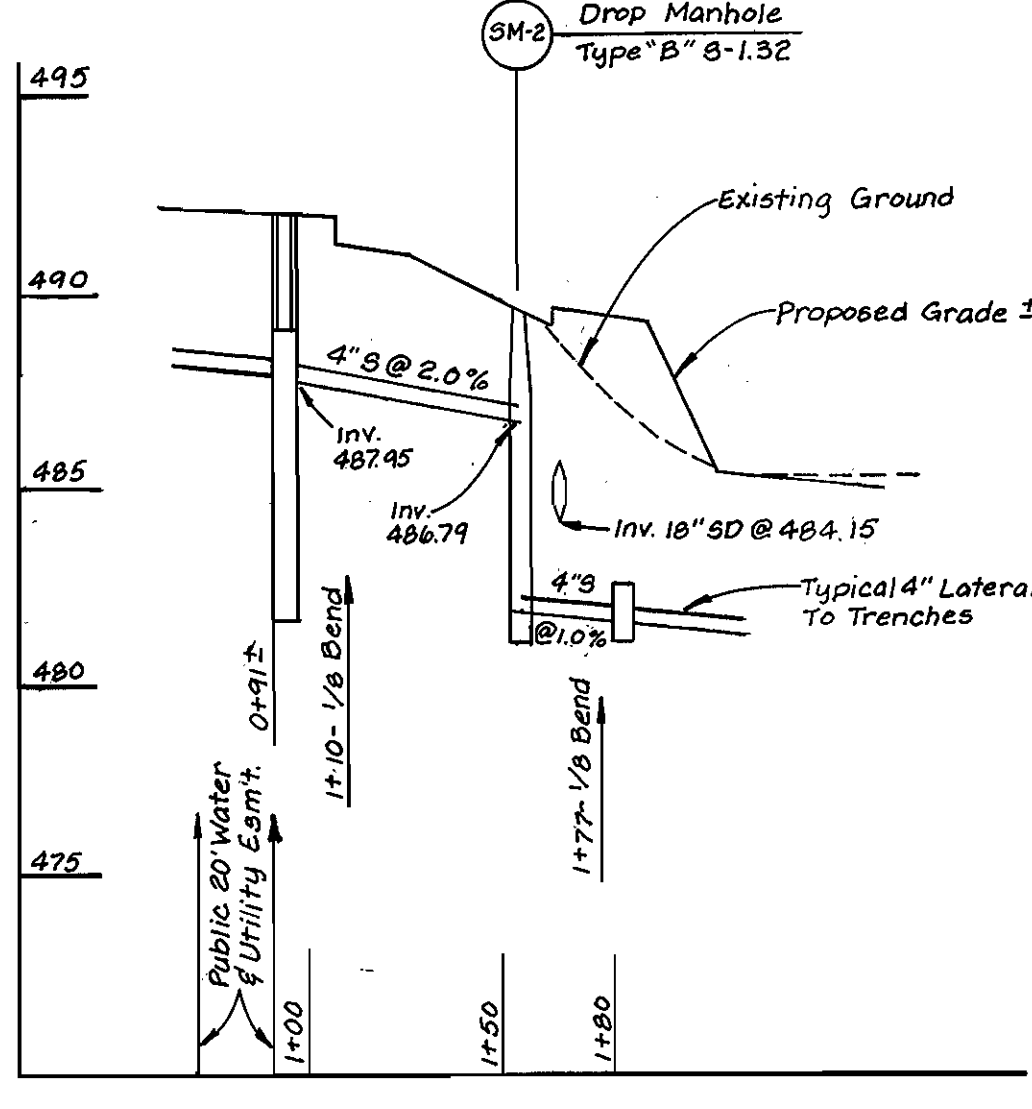
- Product Name: Zabel® A100 Commercial & Residential Effluent Filter. U.S. Patent: 4,710,295
- Model Numbers: A100 Case & Cartridge; A101 Cartridge Only; A100-HIP Case & Cartridge; A101-HIP Cartridge Only
- Applications: Apartments, trailer parks, schools, churches, shopping centers, and offices; Septic dump stations and community treatment plants; Single and Multi-family homes
- Performance Specification:
 - Model A100: 3,000 gpd
 - Model A100-HIP: 4,600 gpd
 - Multiple filters may be installed in manholes to handle larger flows. Use a Zabel Flow Control Plate Model FC100 to set the effluent flow to predetermined limits.
 - TSS: Reductions in TSS within six months of installation - 20 to 45 percent is dependent on the make-up of the wastewater.
 - BOD₅ Reduction in BOD₅ within six months of installation - 20 to 45 percent is dependent on the make-up of the wastewater.
- Materials: All materials are non-corrosive. Case & Lid - PVC; Filter discs - Polystyrene; Rods - Polyethylene; Nuts - Nylon; A100-HIP rods and nuts are aluminum steel.
- New System Installation: Center the top of the 12 inch Filter Case under an outlet access opening at least 16 inches in diameter. PVC solvent weld the ball coupling to the 4 inch Schedule 40 PVC exit pipe of the tank as required by local code. The PVC outlet pipe should extend at least 18 inches beyond the outside face of the tank wall. If required to meet depth requirements, install a Zabel® Extension Reducer and 4-inch Schedule 40 pipe to the bottom of the filter case. A riser to grade is recommended. High performance double stack (Model A100-HIP) filters and multiple filters installed in manholes will require additional support and access.
- Existing System Installation: The filter may be installed in an existing septic tank if an outlet access opening already exists and the filter can be installed without damaging the existing tank. If a 4-inch Schedule 40 PVC pipe does not extend into the tank, the filter can be installed utilizing a plumbing flange. If the existing septic tank cannot be used, the filter can be installed using a Zabel® Container Assembly Model CA100 or Zaus® Basin System.
- Service: A professional onsite service company should perform all onsite system service.
- Service Method: Grasp the filter handle and pull the filter cartridge upward. A Zabel® SE T-Handle is available if required to reach filters more than 12 inches below grade. Hose off the cartridge into the tank and reinsert into the case. If required, the filter may be disassembled for further cleaning.
- Service Frequency: The filter requires cleaning when the septic tank is normally inspected and pumped as required by local regulation. The A100s are designed to slough most normal solids off the inside of the vertical disc dam walls and back into the tank when the effluent flow is in a resting state. Installation of an effluent filter may increase the frequency of service if the homeowner discharges materials that are harmful to the system.
- Warranty: The A100s are warranted to be free from defects in material and workmanship for the life of the original purchaser. Zabel® liability is limited to repair or replacement of the part and in no event shall Zabel® be liable for any consequential damages of any kind.

NOTE: 1.) EFFLUENT FILTER TO BE INSTALLED ON ALL SEPTIC TANKS AT OUTLET LOCATION. 2.) NOT INSTALLED ON THE PUMP CHAMBER OUTLET.



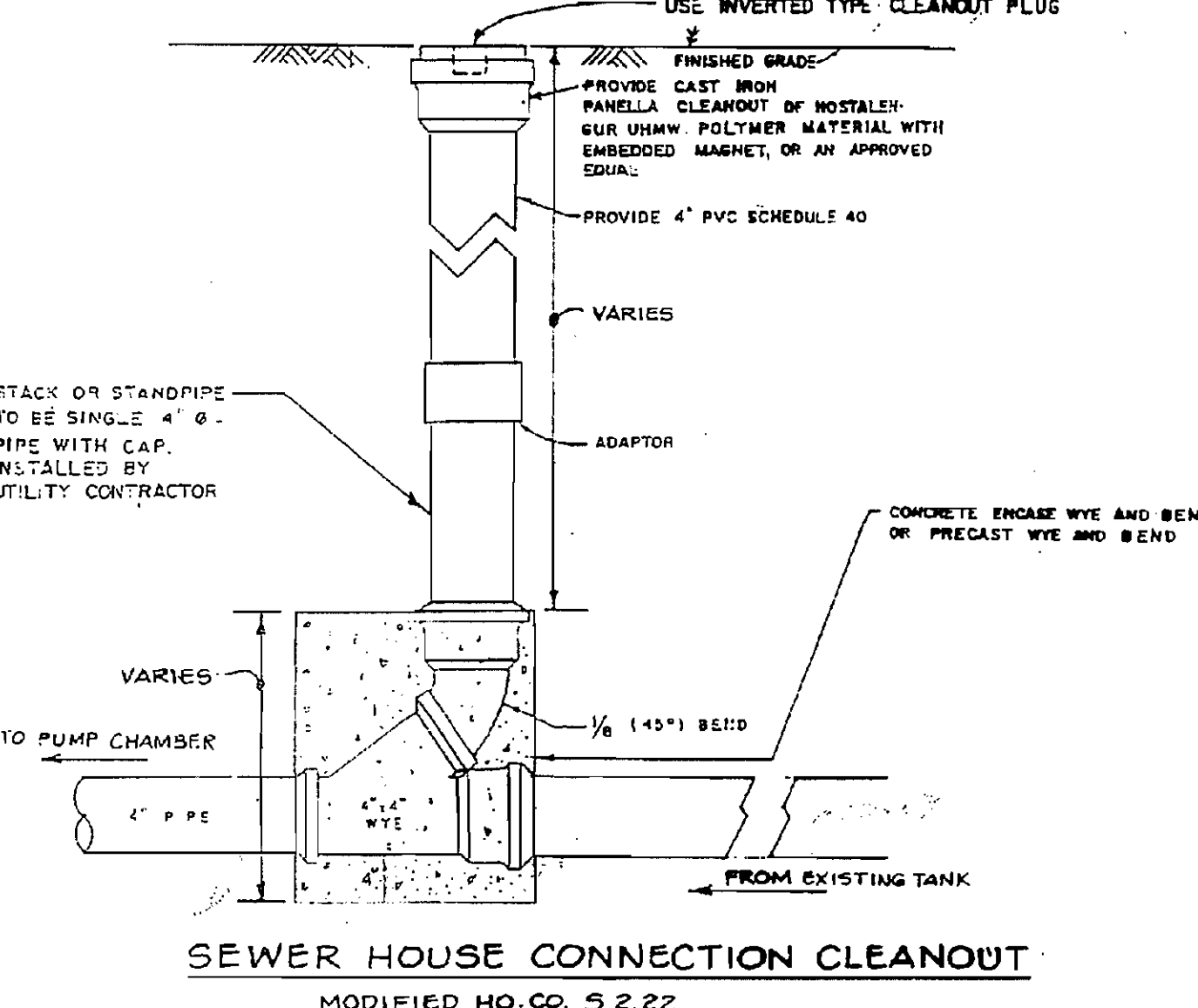
PROFILE 4" SANITARY SEWER FROM PROPOSED SANCTUARY TO DISTRIBUTION TANK #1

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.



PROFILE 4" SANITARY SEWER FROM PROPOSED PUMP CHAMBER TO DISTRIBUTION TANK #2

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.
[Signature]
HOWARD COUNTY HEALTH OFFICER SRK 7-17-03 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 7/14/03 DATE
[Signature] 7/21/03 DATE
[Signature] 7/21/03 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL
DATE: _____
USDA-NATURAL RESOURCE CONSERVATION SERVICE

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

ENGINEER'S CERTIFICATE
I certify that this plan for...
[Signature] 6/25/03 DATE
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE
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 application before beginning the project. I shall engage a registered professional engineer to inspect and certify construction and provide the Howard Soil Conservation District with an as-built plan of the pond within 30 days of completion. I also authorize the conduct of site inspections by Howard Soil Conservation District.
[Signature] 6/25/03 DATE
SIGNATURE OF DEVELOPER

PROFESSIONAL ENGINEER
[Signature] 6/25/03 DATE
STATE OF MARYLAND PROFESSIONAL ENGINEER

REVISIONS		
No.	Date	Description
1	11/20/03	REVISE PRIVATE WATER SERVICE

Subdivision Name: ST. JOHN THE EVANGELIST BAPTIST CHURCH	Block No. 16	Zone RC-DEO	Tax Map No. 16	Election District 3rd	Census Tract 6030
Water Code JO2	Sewer Code N/A				

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: E.D.S. B.D.B.
DRAWN: J.L.M.
CHECKED: B.D.B.
DATE: 6/2003

Private Water Service Connection & Private Sewage System - Notes & Details
SCALE: As Shown
DRAWING: 32 of 33
JOB NO.: 00-003
FILE NO.: SDP 02-05

ST. JOHN THE EVANGELIST BAPTIST CHURCH
PHASE ONE & TWO
L4195/F.439
Tax Map No. 16 - Grid No. 16 - Parcel 203
3rd Election District - Howard County, Maryland
Previous Submittals: BA 87-46E, BA 003-36E, BA 01-64Y, WP 03-06, F 03-96
OWNER / DEVELOPER: ST. JOHN THE EVANGELIST BAPTIST CHURCH
c/o Mr. Lennie King Jr.
8910 Old Annapolis Road / M.D. Route 108
Columbia, Maryland 21045