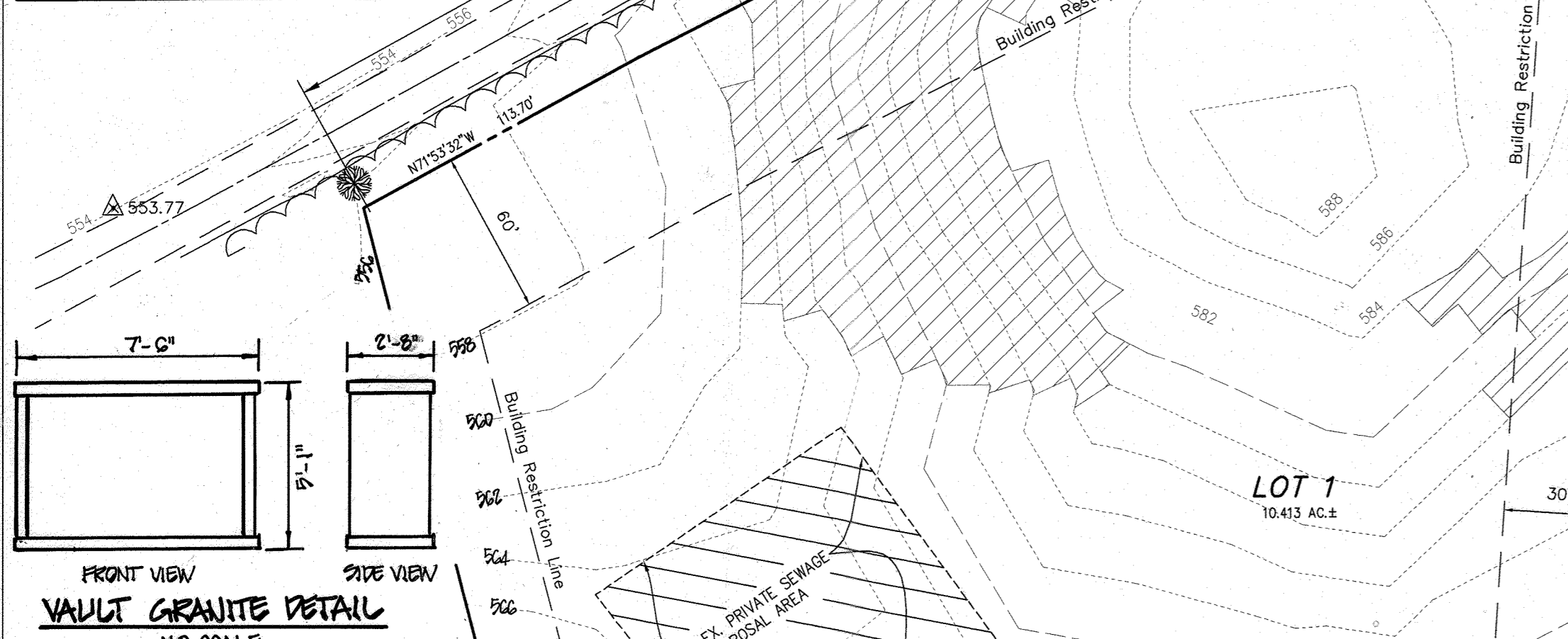


SHEET NO.	DESCRIPTION
1 OF 8	SITE DEVELOPMENT PLAN
2 OF 8	LANDSCAPE & SEWERAGE CONTROL PLAN
3 OF 8	STORMWATER MANAGEMENT PLAN, PROFILES, STORMWATER MANAGEMENT DETAILS
4 OF 8	SYSTEM DRAIN PROFILES & DETAILS
5 OF 8	NOTES & DETAILS
6 OF 8	FOREST CONSERVATION PLAN
7 OF 8	SOILS MAP & DRAINAGE AREA MAP PLAN
8 OF 8	TRAFFIC CONTROL PLAN



GENERAL NOTES (CONTN.)

27. THE PETITION UNDER THE CONDITIONAL USE CASE NUMBER (CA-19-04CC) WAS GRANTED BY THE BOARD OF APPEALS ON JUNE 3, 2022. PROVIDER HONORARY THAT:

A. THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE CONDITIONAL USE AS DESCRIBED IN THE PETITION AND AS DEPICTED ON THE MAY 10, 2022 APPROVED CONDITIONAL USE (EXHIBIT D) AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.

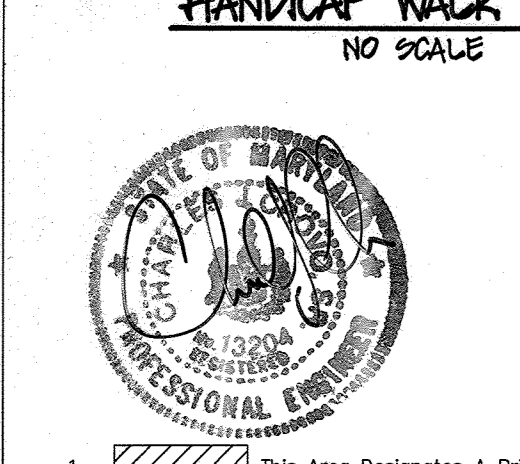
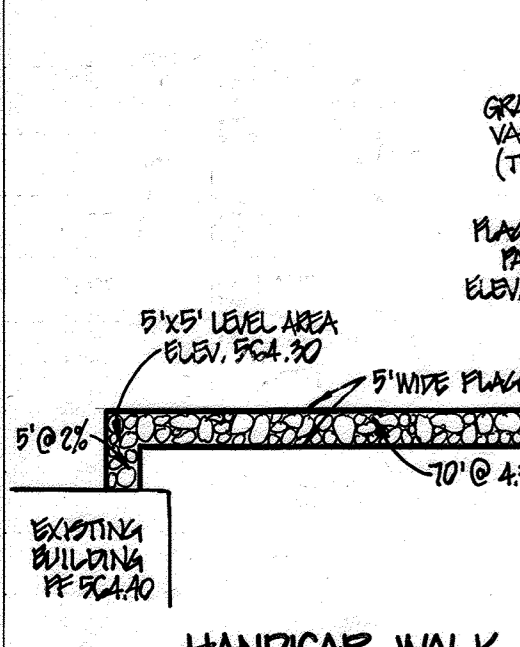
B. PETITIONER SHALL INSTALL EROSION CONTROL STRUCTURES SIMILAR TO THE EXISTING CURBS ALONG THE NORTH PROPERTY LINE WHERE THE VIEW TO THE ADJACENT RESIDENCE ON LOT 2 TO THE NORTH REMAINS UNOBTAINED.

C. PETITIONER SHALL PROVIDE PROTECTIVE FENCING ALONG THE EXISTING AND ANY PROPOSED SITES ON THE RED-LINE SITE DEVELOPMENT PLAN.

D. PETITIONER SHALL OBTAIN ALL PERMITS.

E. PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.

28. ANY EXPANSION OR REPLACEMENT OF EXISTING SHALL REQUIRE REVIEW BY THE APPROPRIATE COUNTY AGENCIES.

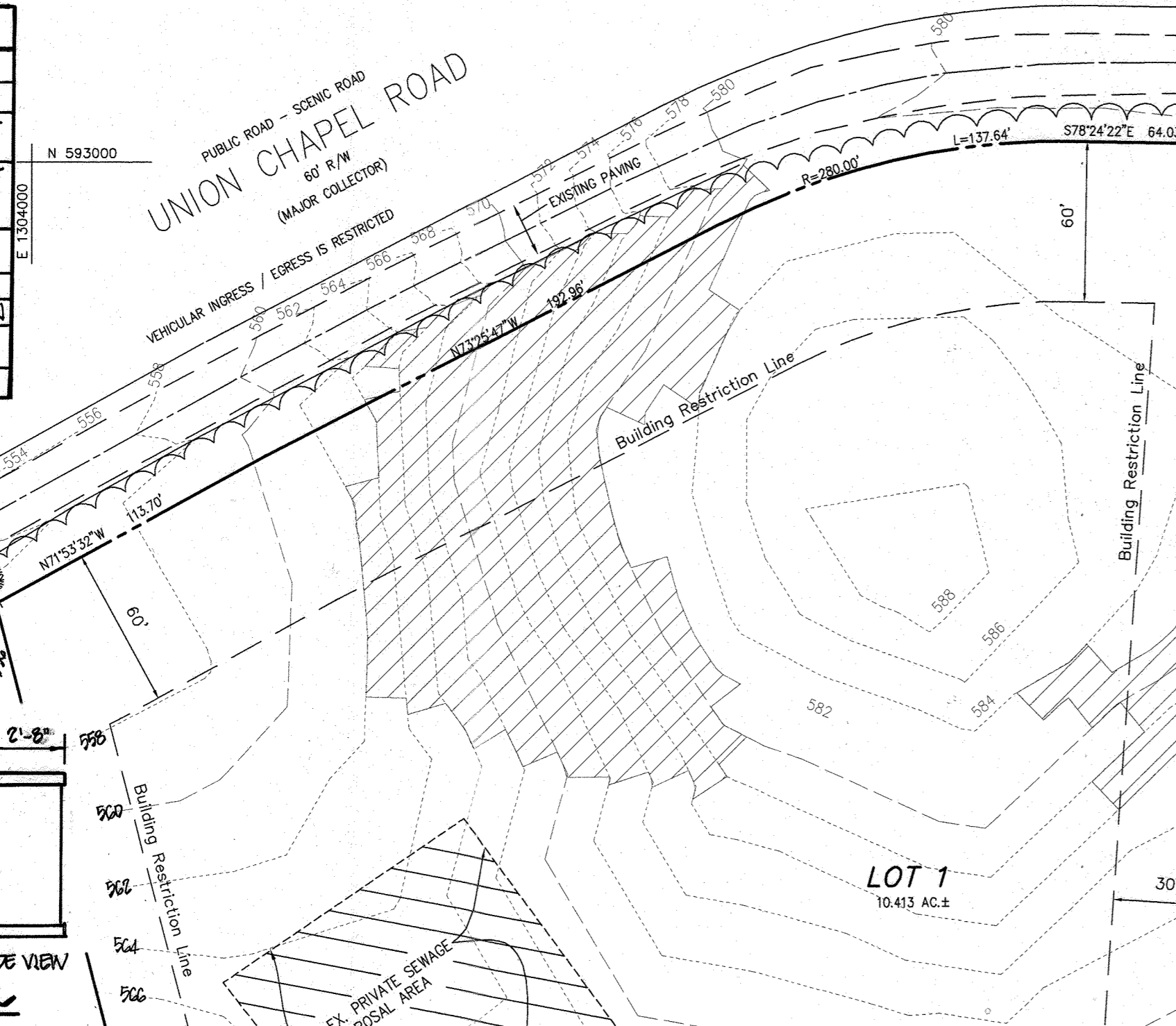


APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Eric M. [Signature] 10/16/22

COUNTY HEALTH OFFICER

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
 ELLE CITY, MARYLAND 21042
 (410) 481-2855



GENERAL NOTES (CONTN.)

27. A TRAFFIC STUDY DATED MAY, 2022 FOR THIS PROJECT WAS PREPARED BY THE MARS GROUP AND APPROVED ON 2/22/22.

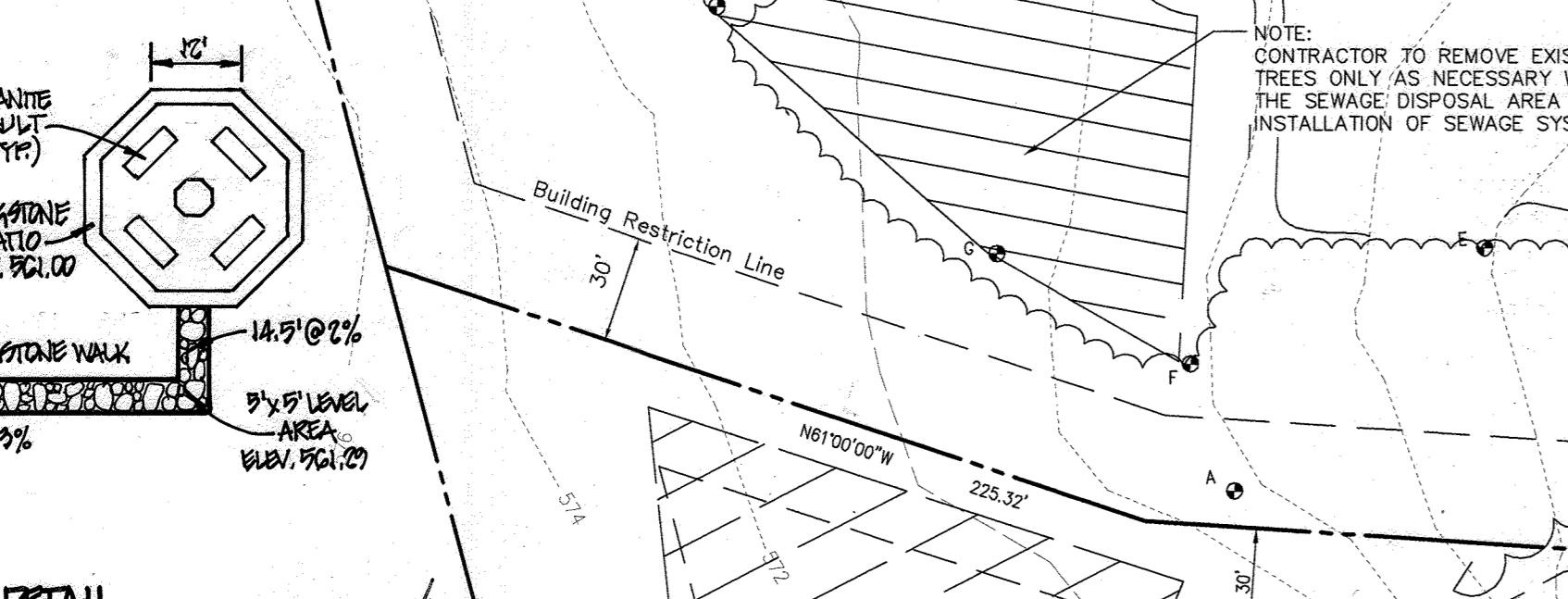
28. THE PETITION UNDER THE CONDITIONAL USE CASE NUMBER (BA 21-038C) WAS GRANTED BY THE BOARD OF APPEALS HEARING EXAMINER ON MARCH 17, 2022 PROVIDED HOWEVER THAT:

1. THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE USES AS DESCRIBED IN THE PETITION AND AS DEPICTED ON THE CONDITIONAL USE PLAN (JANUARY, 2022) AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY. PETITIONER SHALL OBTAIN ALL REQUIRED PERMITS.

2. PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.

3. THERE SHALL BE NO PARKING OF VEHICLES ANYWHERE ON THE PROPERTY OTHERWISE THAN IN THE DESIGNATED PARKING SPACES.

4. THE PETITIONER SHALL PROVIDE A RED-LINE REVISION OF THE SITE DEVELOPMENT PLAN (SOP-01-034), ST. ANDREWS EPISCOPAL CHURCH, TO ADD THE CHILD DAY CARE CENTER USE AND PROPOSED OUTDOOR PLAY AREA. THE REDLINE MUST BE COMPLETED PRIOR TO APPLYING FOR PERMITS WITH THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS. PETITIONER MAY INITIALLY CONSTRUCT A PLAY AREA SMALLER THAN 3,000 SQUARE FEET, BUT A MAXIMUM PLAY AREA OF 3,000 SQUARE FEET IS APPROVED.

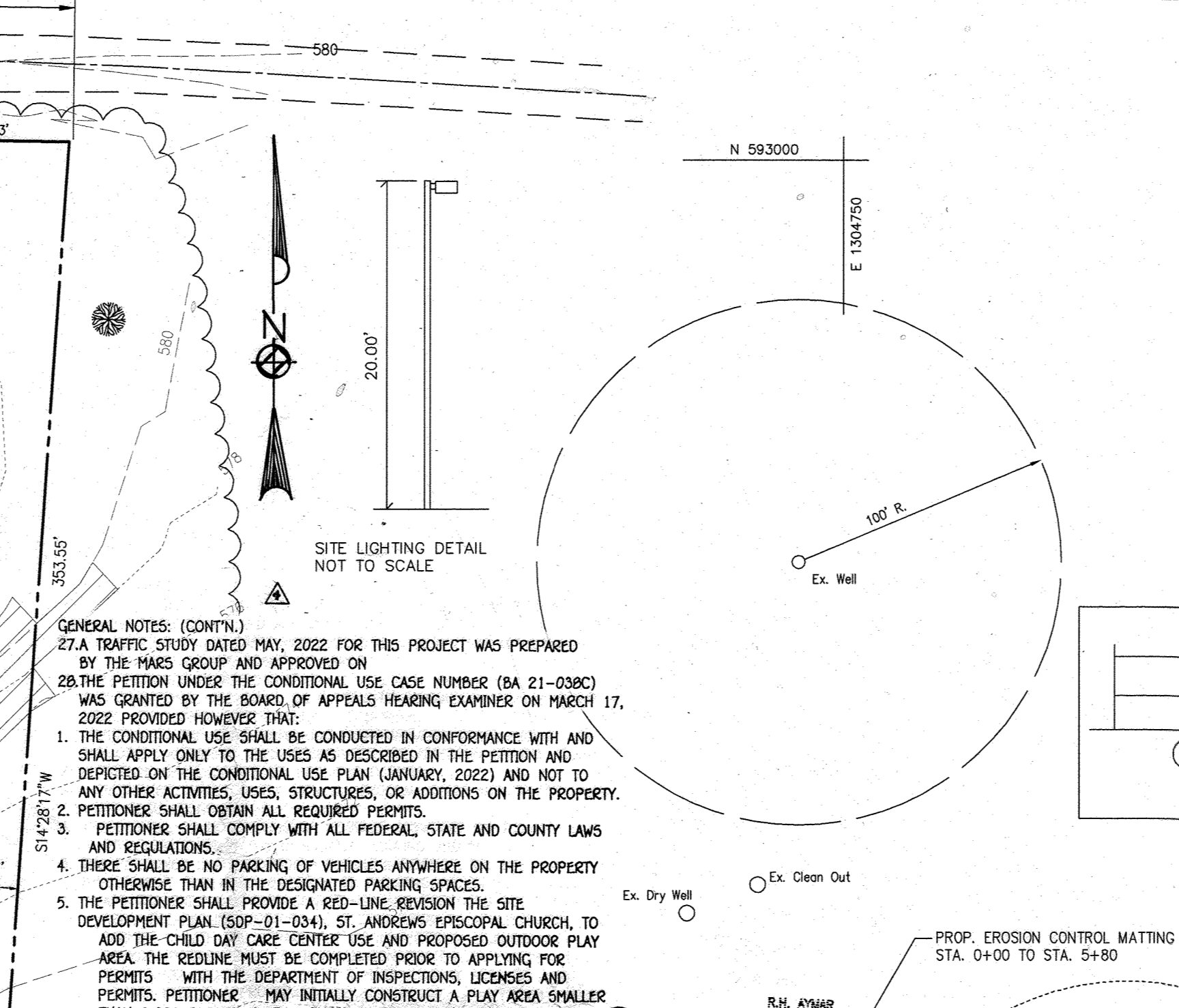


APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Eric M. [Signature] 10/16/22

COUNTY HEALTH OFFICER

DATE	REVISION	DESCRIPTION
7/5/22	REVISE PAVING LIMIT AND GRADING TO I-1	
10/25/22	ADD PROPOSED RETENTION AREA & CURB OPENING W/ CHANNEL TO ALLEVIATE STANDING WATER ISSUE.	
9/2/22	REVISE HANDICAP ACCESS FROM PARKING AREA. ADD 5' WIDE PLAN CONCRETE WALK, COLLARMENT WITH 2" CURB AND 5' WIDE SIDEWALK REPLACEMENT. REVISE HANDICAP WALK DETAIL, VAULT GRANITE DETAIL, EX. DR. ELEVATIONS, NOTES & REMOVED "PURPLE CHURCH" & "FUTURE SUNDAY SCHOOL EXPANSION".	
6/7/22	ADDED PROPOSED BOARD ON BOARD FENCE	



GENERAL NOTES (CONTN.)

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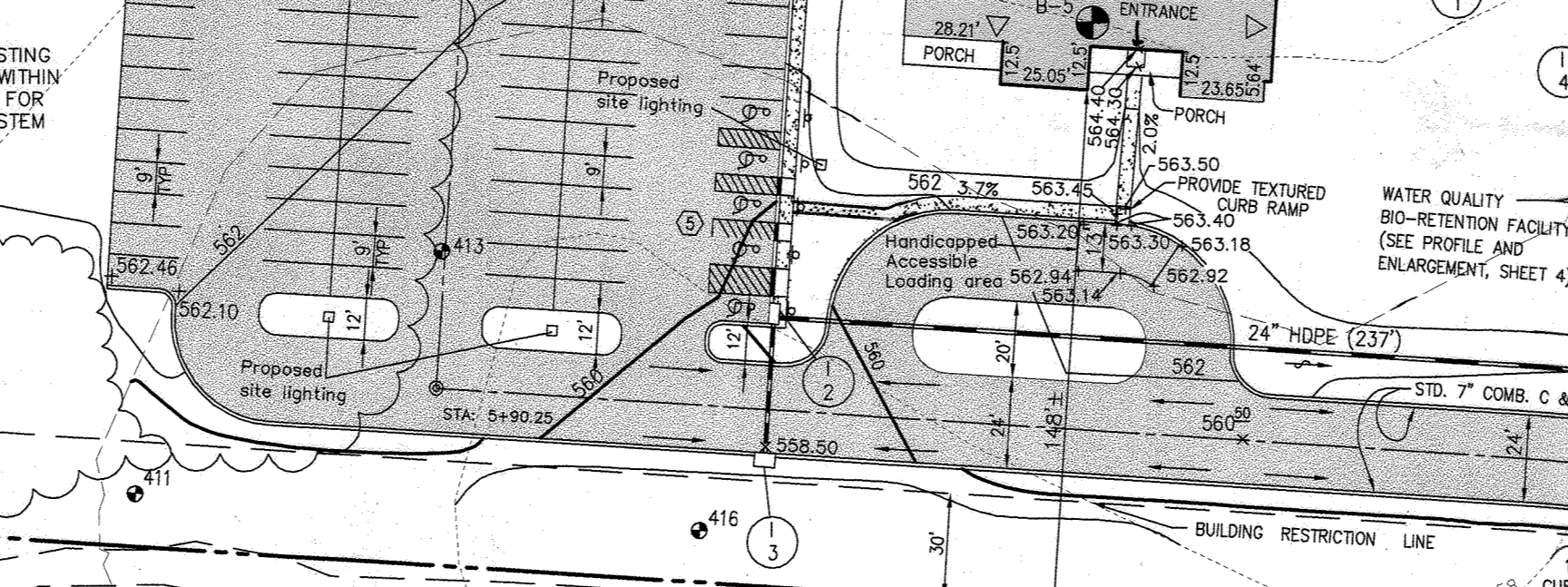
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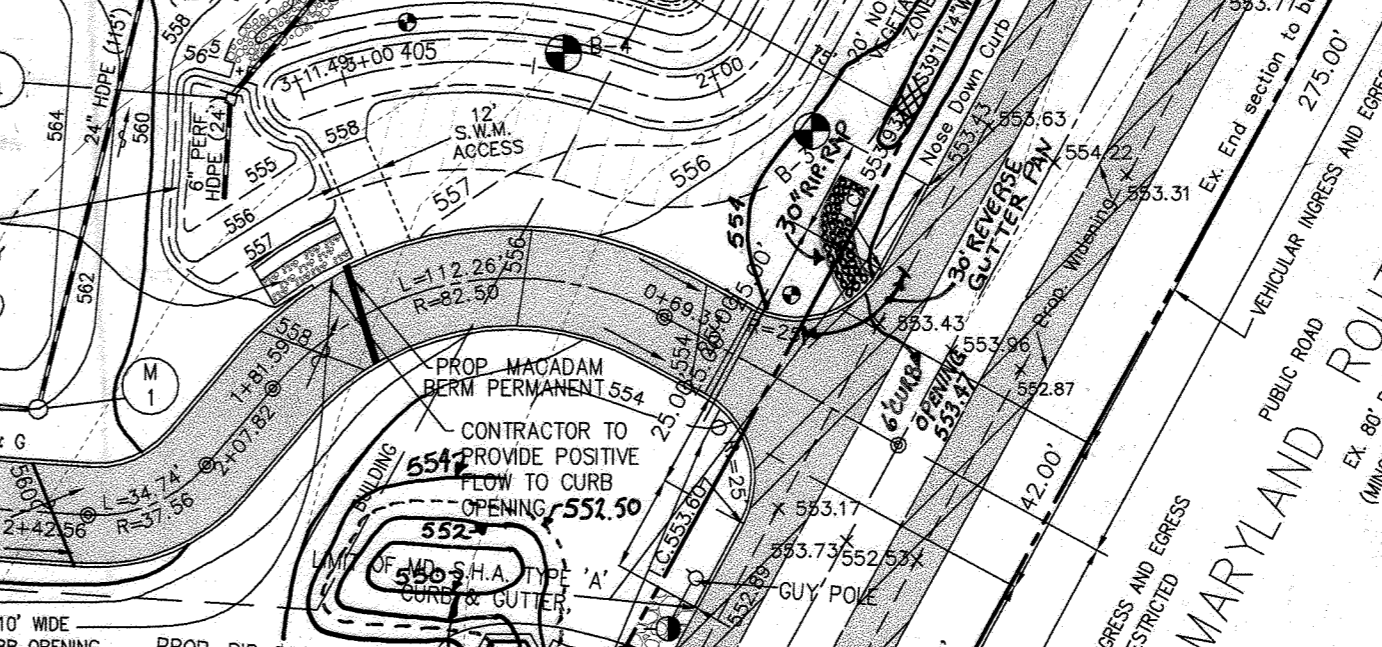
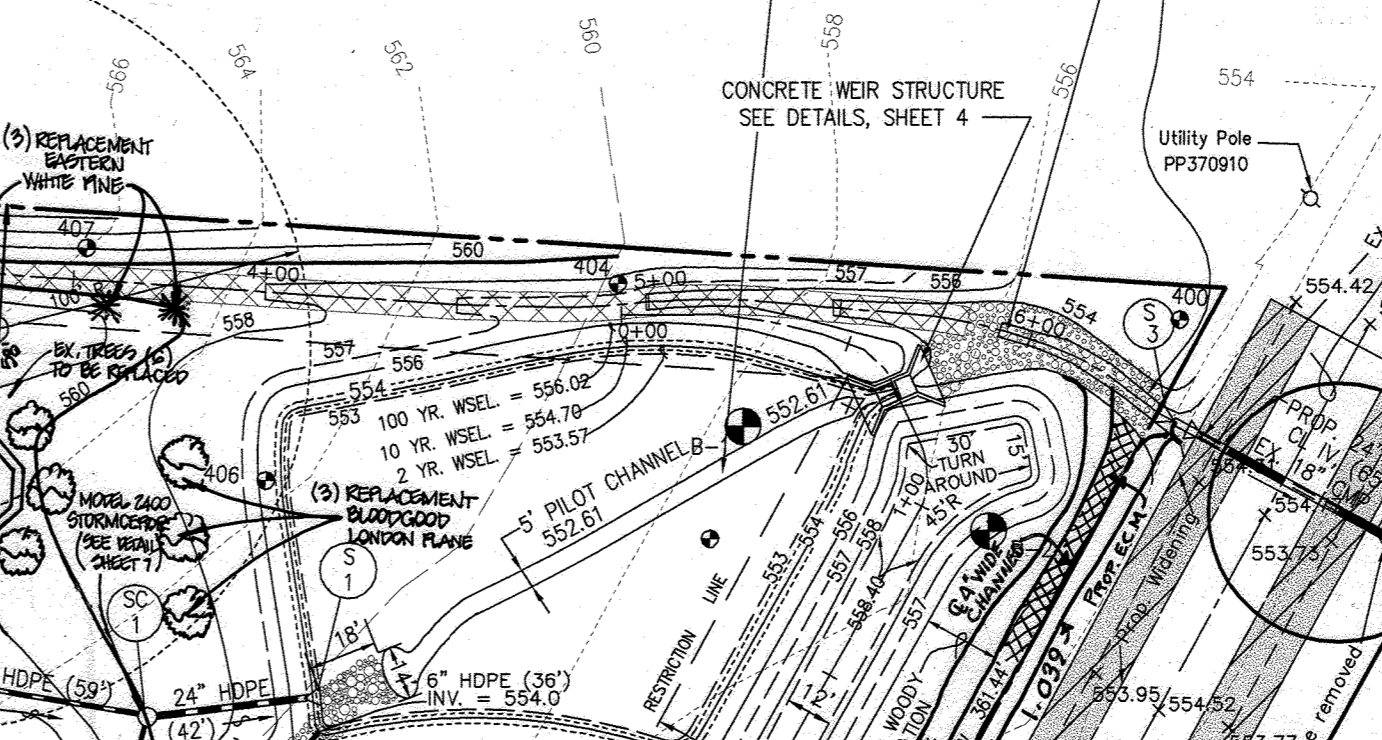
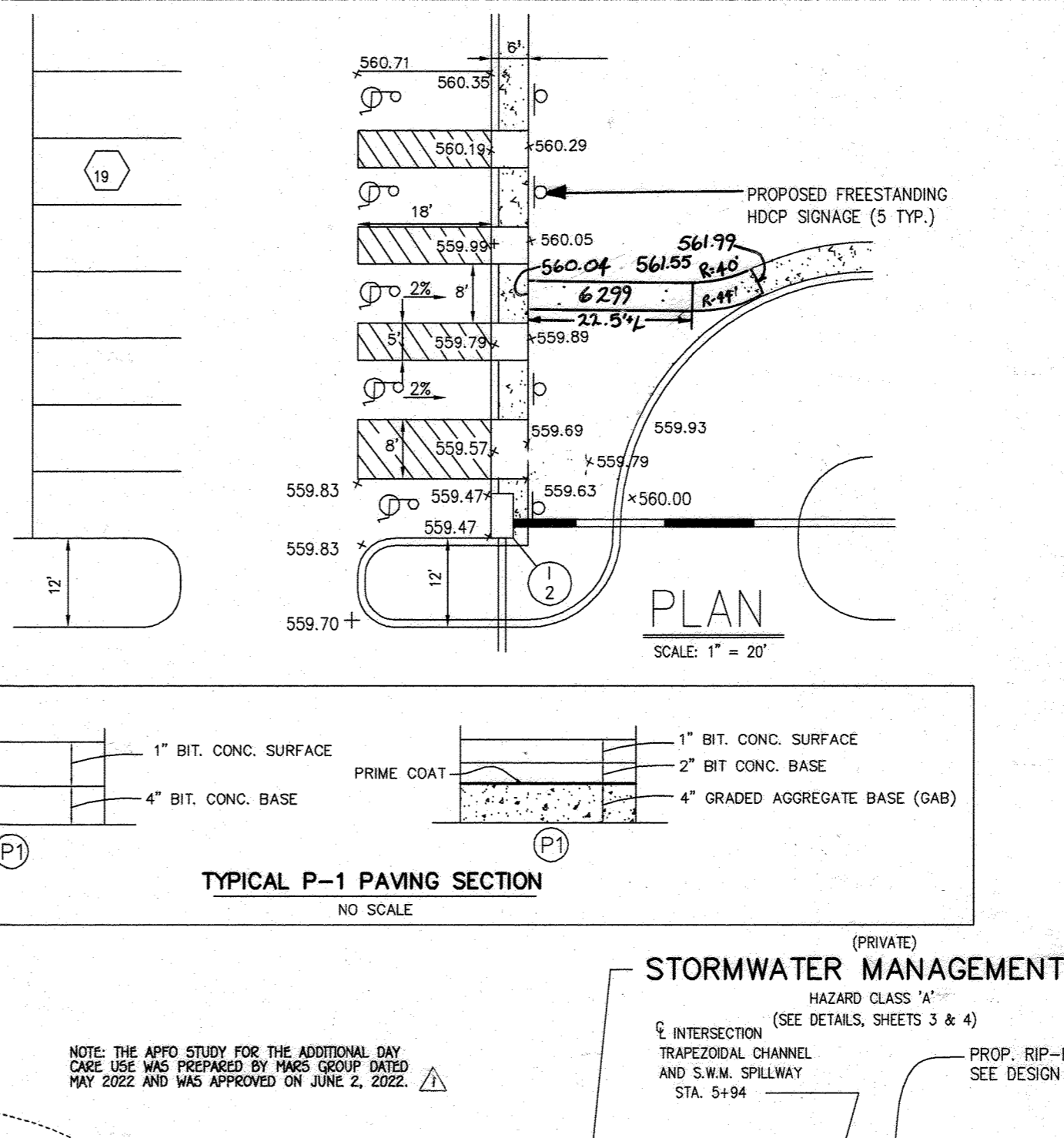


APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Eric M. [Signature] 10/16/22

COUNTY HEALTH OFFICER

DATE	REVISION	DESCRIPTION
7/5/22	REVISE PAVING LIMIT AND GRADING TO I-1	
10/25/22	ADD PROPOSED RETENTION AREA & CURB OPENING W/ CHANNEL TO ALLEVIATE STANDING WATER ISSUE.	
9/2/22	REVISE HANDICAP ACCESS FROM PARKING AREA. ADD 5' WIDE PLAN CONCRETE WALK, COLLARMENT WITH 2" CURB AND 5' WIDE SIDEWALK REPLACEMENT. REVISE HANDICAP WALK DETAIL, VAULT GRANITE DETAIL, EX. DR. ELEVATIONS, NOTES & REMOVED "PURPLE CHURCH" & "FUTURE SUNDAY SCHOOL EXPANSION".	
6/7/22	ADDED PROPOSED BOARD ON BOARD FENCE	

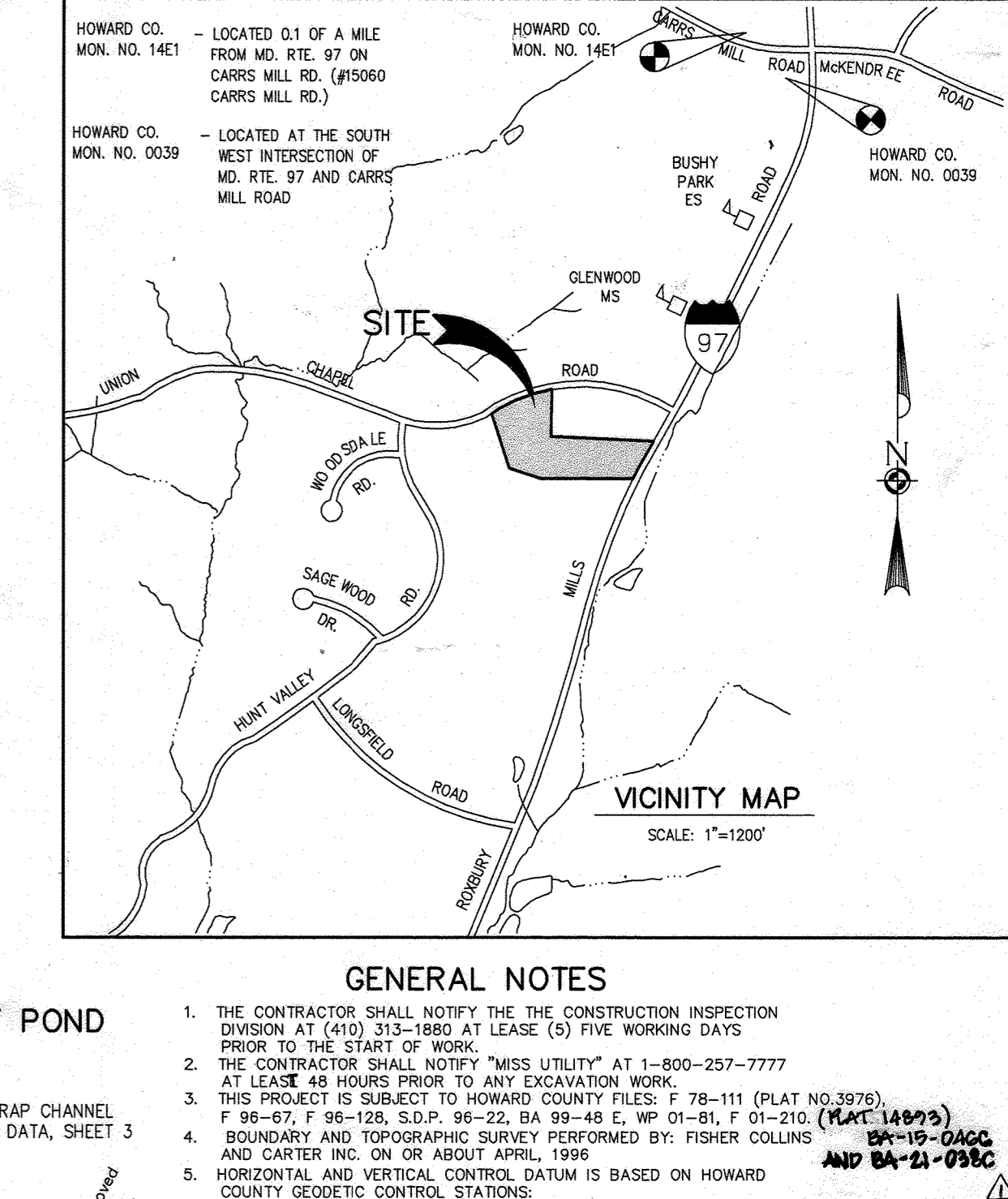


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GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.

2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.

3. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F 78-11 (PLAT NO. 3976), F 98-67, F 98-128, S.D.P. 98-22, BA 99-8, E. W. 01-81, F 01-210 (PLAT 14993) AND BA-19-04CC AND BA-21-038C.

4. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY: FISHER COLLINS AND CARTER INC. ON OR ABOUT APRIL, 1998.

5. HORIZONTAL AND VERTICAL CONTROL DATUMS IS BASED ON HOWARD COUNTY GEODETIC CONTROL STATIONS.

HOWARD COUNTY MONUMENT NO. 14E1 N 506.2131618 ELEV. = 590.86
 HOWARD COUNTY MONUMENT NO. 0039 N 505.7228354 ELEV. = 620.189
 HOWARD COUNTY MONUMENT NO. 14E1 E 1301.991897

6. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

7. THIS SITE PLAN IS FOR THE REVIEW OF THE PROPOSED 6,500 SQ.FT. BUILDING FOR USE AS A RELIGIOUS FACILITY AND ASSOCIATED PARKING FOR THE COMPLETE PHASING OF ALL BUILDINGS. THE AMOUNT OF TWENTY-FOUR THOUSAND NINE HUNDRED AND NINETY DOLLARS (\$24,990.00) RELIGIOUS FACILITY / SUNDAY SCHOOL (6,500 + 3,500 SQ.FT.) = 4% PERCENT 650 SQ.FT. SUNDAY SCHOOL ADDITION. WILL REQUIRE THE SUBMISSION OF A NEW SITE DEVELOPMENT PLAN FOR REVIEW.

8. THIS SITE WILL UTILIZE PRIVATE WATER AND SEWER.

9. STORMWATER MANAGEMENT IS PRIVATELY OWNED AND MAINTAINED. THIS FACILITY WILL PROVIDE WATER QUANTITY MANAGEMENT. WATER QUALITY WILL BE PROVIDED BY A STORMCEPTOR.

10. SITE ANALYSIS DATA:
 A. TOTAL PROJECT AREA: 10.413 AC.
 B. AREA OF PLAN SUBMISSION: 10.413 AC.
 C. LIMIT OF DISTURBED AREA: 6.28 AC.
 D. PRESENT ZONING: RC-DEO
 E. PROPOSED USE FOR SITE AND STRUCTURES: CHURCH AND SUNDAY SCHOOL
 F. NUMBER OF PARKING SPACES REQUIRED:

NO. OF SEATS: 300 SEATS
 NUMBER OF PARKING SPACES REQ. = 100 (1 SPACE PER 3 SEATS)
 NUMBER OF SPACES PROVIDED = 112
 107 STANDARD SPACES
 5 HANDICAPPED ACCESSIBLE

11. BLDG. COVERAGE: PROPOSED RELIGIOUS FACILITY (6,500 SQ.FT.) = 2% PERCENT TOTAL PHASED BLDG. COVERAGE: PROPOSED RELIGIOUS FACILITY AND FUTURE RELIGIOUS FACILITY / SUNDAY SCHOOL (6,500 + 3,500 SQ.FT.) = 4% PERCENT

12. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF TWENTY-FOUR THOUSAND NINE HUNDRED AND NINETY DOLLARS (\$24,990.00).

13. ALL PROPOSED LIGHTING WILL BE WALL MOUNTED OR POLE MOUNTED IN THE PARKING AREAS AND DIRECTED DOWNWARD AND INWARD FROM ALL ADJACENT PROPERTIES, IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS.

14. THIS PLAN IS SUBJECT TO THE FIVE (5) CONDITIONS AS APPROVED BY BA 99-48E. THESE FIVE (5) CONDITIONS OF APPROVAL ARE AS FOLLOWS:
 1. THE SPECIAL EXCEPTION FOR THE RELIGIOUS FACILITY SHALL APPLY ONLY TO THE BUILDINGS AND TO THE ASSOCIATED PARKING AND OTHER IMPROVEMENTS AS DESCRIBED IN THE PETITION AND ON THE PLAN SUBMITTED JULY 21, 1999 AND NOT TO ANY OTHER STRUCTURES OR USES ON THE PROPERTY.
 2. THE ROAD IMPROVEMENTS SHALL BE CONSTRUCTED AS REQUIRED BY THE STATE HIGHWAY ADMINISTRATION.
 3. A TYPE 'A' LANDSCAPE BUFFER SHALL BE INSTALLED ALONG THE NORTH AND SOUTH SIDE AND A TYPE 'E' LANDSCAPE BUFFER SHALL BE INSTALLED ALONG THE SOUTH SIDE OF THE PROPERTY AT ALL POINTS ADJACENT TO THE PARKING LOT.
 4. ANY EXTERIOR LIGHTING SHALL BE IN CONFORMANCE WITH SECTION 134 OF THE ZONING REGULATIONS.
 5. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.

15. THERE ARE NO WETLANDS LOCATED ON-SITE AS PER THE SITE VISIT AND LETTER BY ECO-SCIENCE, INC. DATED NOVEMBER 30, 1999.

16. THERE ARE NO CEMETRIES ON-SITE OR ON ANY ADJACENT PROPERTIES.

17. REFER TO THE MD. S.H.A. MANUAL ON UNIFORM TRAFFIC CONTROL (M.U.T.C.D.) FOR ROAD WIDENING WORK.

18. - DENOTES AREAS OF 15 - 24.99% AND GREATER STEEP SLOPES LOCATED ON-SITE.

19. THERE ARE NO HISTORIC STRUCTURES LOCATED ON THIS SITE.

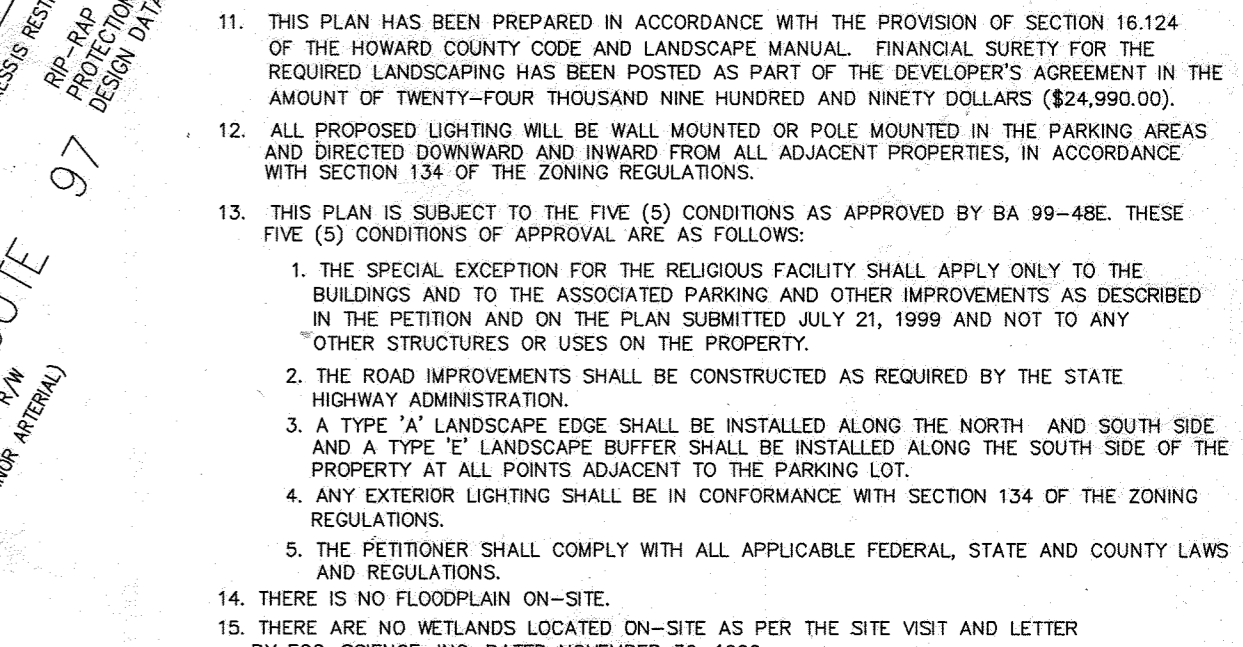
20. IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, FOREST CONSERVATION OBLIGATIONS HAVE BEEN MET BY PLANTING 5.2 ACRES OF LAND OFF-SITE LOCATED WITHIN THE "COCKER HUNT" SUBDIVISION, SECTION 1, AREA 1, NON-BUILDABLE PRESERVATION PARCEL 12AND SHOWN IN THIS SET OF DRAWINGS AS SHEET NUMBER 6, RECORDED PLAT 14993, 14997 ON 8-17-01 (F02-11)

21. THIS PLAN IS SUBJECT TO WAIVER PETITION NUMBER WP 01-81 WHICH WAS TO WAIVE SECTION 16.119(3) TO ALLOW A SECOND SEPARATE ENTRANCEWAY ONTO A MINOR ARTERIAL (MD. RT. 97) FOR RELIGIOUS FACILITY AND THIS WAIVER PETITION WAS APPROVED ON FEBRUARY 28, 2001 AND APPLIED FOR ON JANUARY 25, 2001.

22. GROUNDWATER APPROPRIATION PERMIT NUMBER IS H099014.

23. SEPTIC SYSTEM DESIGN PLANS MUST BE SUBMITTED FOR HEALTH DEPARTMENT REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT APPROVAL.

24. THE APPROXIMATE DAILY DESIGN FLOW FOR THIS PROJECT IS 800 GPD. THE MAXIMUM DAILY DESIGN FLOW WHICH THE SEPTIC SYSTEM DESIGN CAN ACCOMMODATE IS 1,500 GPD. THE ACTUAL DESIGN CRITERIA WILL BE SUBMITTED WITH THE SEPTIC SYSTEM DESIGN PLANS PRIOR TO BUILDING PERMIT APPROVAL.

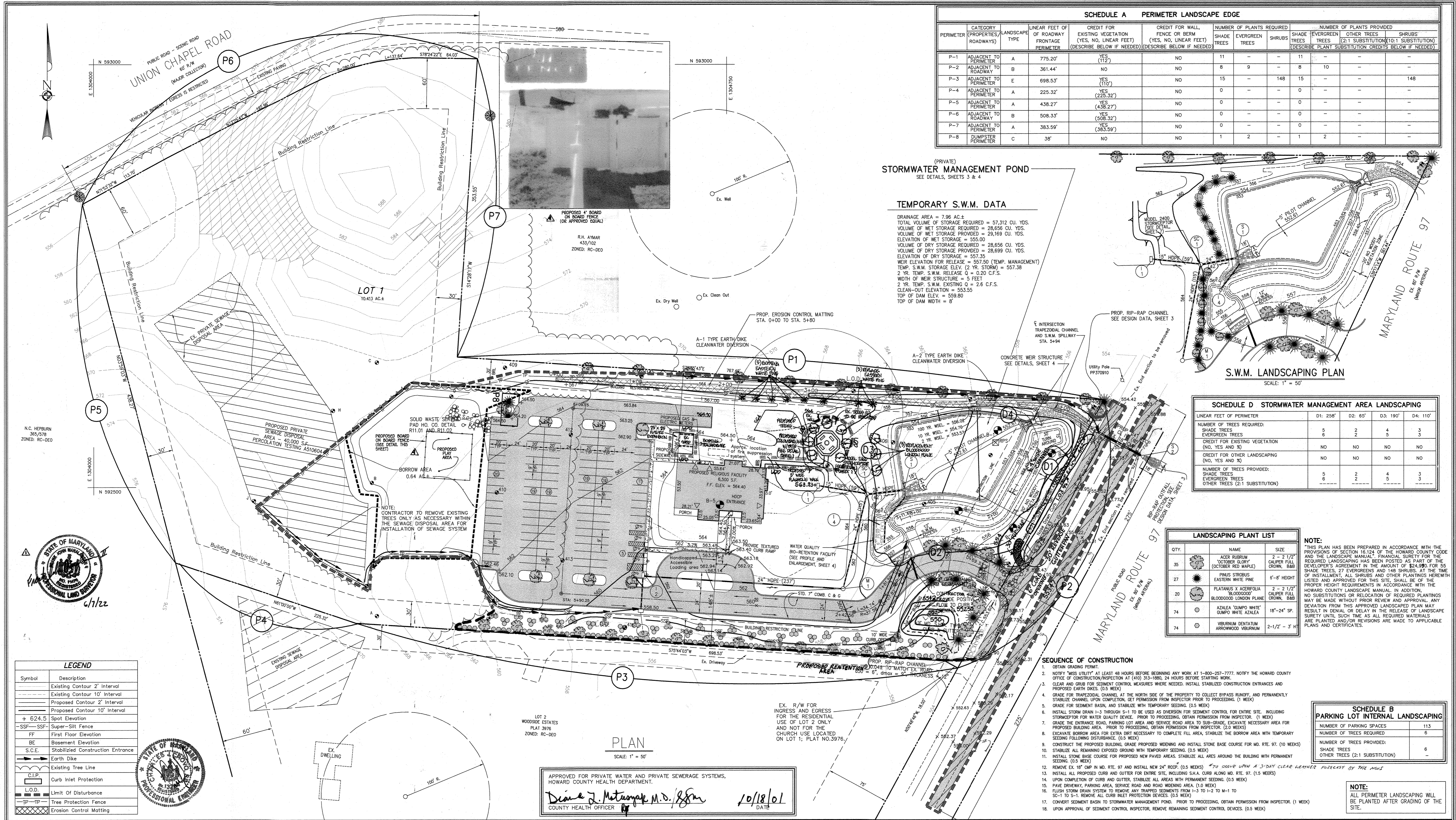


APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Eric M. [Signature] 10/16/22

COUNTY HEALTH OFFICER

DATE	REVISION	DESCRIPTION
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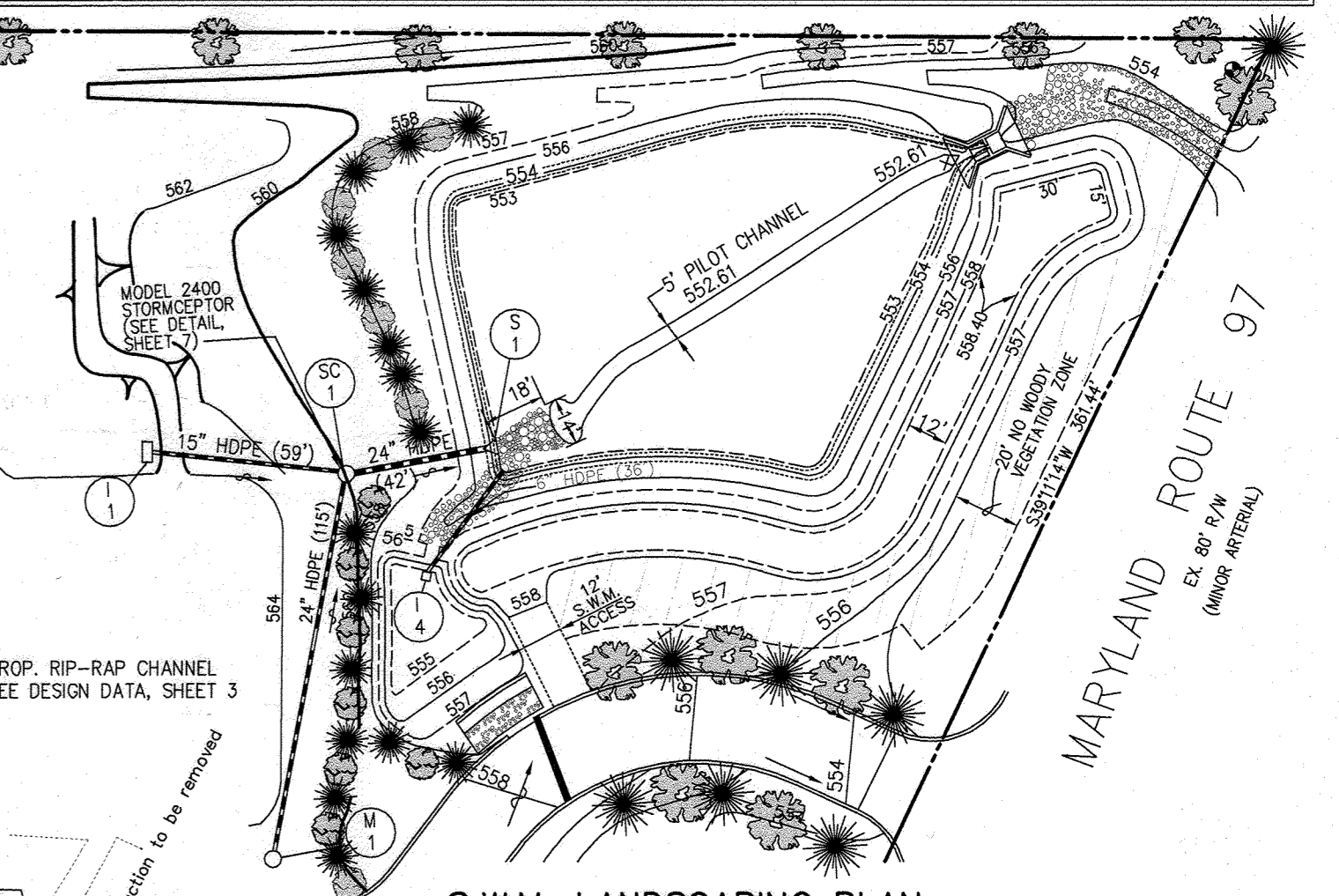


SCHEDULE A PERIMETER LANDSCAPE EDGE										
PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED	NUMBER OF PLANTS PROVIDED			
						SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES (2:1 SUBSTITUTION)	OTHER TREES (10:1 SUBSTITUTION)
P-1	ADJACENT TO PERIMETER	A	775.20'	NO	NO	11	0	0	11	0
P-2	ADJACENT TO ROADWAY	B	361.44'	NO	NO	8	9	0	8	10
P-3	ADJACENT TO PERIMETER	E	698.53'	YES (110')	NO	15	0	148	15	0
P-4	ADJACENT TO PERIMETER	A	225.32'	YES (225.32')	NO	0	0	0	0	0
P-5	ADJACENT TO PERIMETER	A	438.27'	YES (438.27')	NO	0	0	0	0	0
P-6	ADJACENT TO ROADWAY	B	508.33'	YES (508.32')	NO	0	0	0	0	0
P-7	ADJACENT TO PERIMETER	A	383.59'	YES (383.59')	NO	0	0	0	0	0
P-8	DUMPSTER PERIMETER	C	38'	NO	NO	1	2	0	1	2

STORMWATER MANAGEMENT POND
SEE DETAILS, SHEETS 3 & 4

TEMPORARY S.W.M. DATA

DRAINAGE AREA = 7.96 AC.±
TOTAL VOLUME OF STORAGE REQUIRED = 57,312 CU. YDS.
VOLUME OF WET STORAGE REQUIRED = 28,656 CU. YDS.
VOLUME OF WET STORAGE PROVIDED = 29,169 CU. YDS.
ELEVATION OF WET STORAGE = 555.00
VOLUME OF DRY STORAGE REQUIRED = 28,656 CU. YDS.
VOLUME OF DRY STORAGE PROVIDED = 28,699 CU. YDS.
ELEVATION OF DRY STORAGE = 557.35
WEIR ELEVATION FOR RELEASE = 557.50 (TEMP. MANAGEMENT)
TEMP. S.W.M. STORAGE ELEV. (2 YR. STORAGE) = 557.38
2 YR. TEMP. S.W.M. RELEASE Q = 0.20 C.F.S.
WIDTH OF WEIR STRUCTURE = 5 FEET
2 YR. TEMP. S.W.M. EXISTING Q = 2.6 C.F.S.
CLEAR-OUT ELEVATION = 553.55
TOP OF DAM ELEV. = 559.80
TOP OF DAM WIDTH = 8'



S.W.M. LANDSCAPING PLAN
SCALE: 1" = 50'

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING				
LINEAR FEET OF PERIMETER	D1: 258'	D2: 65'	D3: 190'	D4: 110'
NUMBER OF TREES REQUIRED:				
SHADE TREES	5	2	4	3
EVERGREEN TREES	0	0	0	0
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	NO	NO	NO	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	NO	NO	NO	NO
NUMBER OF TREES PROVIDED:				
SHADE TREES	5	2	4	3
EVERGREEN TREES	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0

LANDSCAPING PLANT LIST		
QTY.	NAME	SIZE
35	ACER RUBRUM "OCTOBER GLORY" (OCTOBER RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, BAB
27	PNUS STROBUS EASTERN WHITE PINE	6'-8" HEIGHT
20	PLATANUS X ACERIFOLIA "BLOODGOOD" BLOODGOOD LONDON PLANE	2 - 2 1/2" CALIPER FULL CROWN, BAB
74	AZALEA "DUMPO WHITE" DUMPO WHITE AZALEA	18"-24" SP.
74	IBIRIDUM DENTATUM ARROWWOOD VIBURNUM	2-1/2' - 3' H

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$24,990. FOR 55 SHADE TREES, 27 EVERGREENS AND 148 SHRUBS. AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL. ANY DEVIATION FROM THIS APPROVED LANDSCAPING PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.

LEGEND	
Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624.5	Spot Elevation
SS	Super-Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
S.C.E.	Stabilized Construction Entrance
---	Earth Dike
---	Existing Tree Line
C.I.P.	Curb Inlet Protection
L.O.D.	Limit of Disturbance
IP-TP	Tree Protection Fence
---	Erosion Control Matting

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - NOTIFY "MSS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION AT (410) 313-1882, 24 HOURS BEFORE STARTING WORK.
 - CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES WHERE NEEDED. INSTALL STABILIZED CONSTRUCTION ENTRANCES AND PROPOSED EARTH DIKES. (0.5 WEEK)
 - GRADE FOR TRAPEZOIDAL CHANNEL AT THE NORTH SIDE OF THE PROPERTY TO COLLECT BYPASS RUNOFF, AND PERMANENTLY STABILIZE CHANNEL UPON COMPLETION. GET PERMISSION FROM INSPECTOR PRIOR TO PROCEEDING. (1 WEEK)
 - GRADE FOR SEDIMENT BASIN, AND STABILIZE WITH TEMPORARY SEEDING. (0.5 WEEK)
 - INSTALL STORM DRAIN 1-3 THROUGH S-1 TO BE USED AS DIVERSION FOR SEDIMENT CONTROL FOR ENTIRE SITE, INCLUDING STORMWATER FOR WATER QUALITY DEVICE. PRIOR TO PROCEEDING, OBTAIN PERMISSION FROM INSPECTOR. (1 WEEK)
 - GRADE THE ENTRANCE ROAD, PARKING LOT AREA AND SERVICE ROAD TO SUB-GRADE, EXCAVATE NECESSARY AREA FOR PROPOSED BUILDING AREA. PRIOR TO PROCEEDING, OBTAIN PERMISSION FROM INSPECTOR. (2.0 WEEKS)
 - EXCAVATE BORROW AREA FOR EXTRA DIRT NECESSARY TO COMPLETE FILL AREA. STABILIZE THE BORROW AREA WITH TEMPORARY SEEDING FOLLOWING DISTURBANCE. (0.5 WEEK)
 - CONSTRUCT THE PROPOSED BUILDING, GRADE PROPOSED WINDING AND INSTALL STONE BASE COURSE FOR MD. RTE. 97. (10 WEEKS)
 - STABILIZE ALL REMAINING EXPOSED GROUND WITH TEMPORARY SEEDING. (0.5 WEEK)
 - INSTALL STONE BASE COURSE FOR PROPOSED NEW PAVED AREAS. STABILIZE ALL AREAS AROUND THE BUILDING WITH PERMANENT SEEDING. (0.5 WEEK)
 - REMOVE EX. 18" CMP IN MD. RTE. 97 AND INSTALL NEW 24" ROOF. (0.5 WEEKS)
 - INSTALL ALL PROPOSED CURBS AND GUTTER FOR ENTIRE SITE, INCLUDING S.H.A. CURB ALONG MD. RTE. 97. (1.5 WEEKS)
 - UPON COMPLETION OF CURBS AND GUTTER, STABILIZE ALL AREAS WITH PERMANENT SEEDING. (0.5 WEEK)
 - PAVE DRIVEWAY, PARKING AREA, SERVICE ROAD AND ROAD WIDENING AREA. (1.0 WEEK)
 - FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENTS FROM 1-3 TO 1-2 TO M-1 TO S-1 TO S-1. REMOVE ALL CURB INLET PROTECTION DEVICES. (0.5 WEEK)
 - CONVERT SEDIMENT BASIN TO STORMWATER MANAGEMENT POND. PRIOR TO PROCEEDING, OBTAIN PERMISSION FROM INSPECTOR. (1 WEEK)
 - UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROL DEVICES. (0.5 WEEK)

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	113
NUMBER OF TREES REQUIRED	6
NUMBER OF TREES PROVIDED:	
SHADE TREES	6
OTHER TREES (2:1 SUBSTITUTION)	0

NOTE:
ALL PERIMETER LANDSCAPING WILL BE PLANTED AFTER GRADING OF THE SITE.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

Deane J. Metzger, M.D., R.S.M. 10/18/01
COUNTY HEALTH OFFICER DATE

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 8/1/01
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.

[Signature] 8/1/01
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meets Technical Requirements.

[Signature] 9/4/01
U.S.D.A. Natural Resources Conservation Service Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 9/4/01
Howard SCD Date

OWNER
ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
GLENWOOD, MARYLAND 21738
(410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 10/19/01
Chief, Planning and Development Date

[Signature] 9/17/01
Chief, Development Engineering Division Date

[Signature] 10/23/01
Director, Department of Planning and Zoning Date

PROJECT	SECTION/AREA	LOT NO.
ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	N/A	1

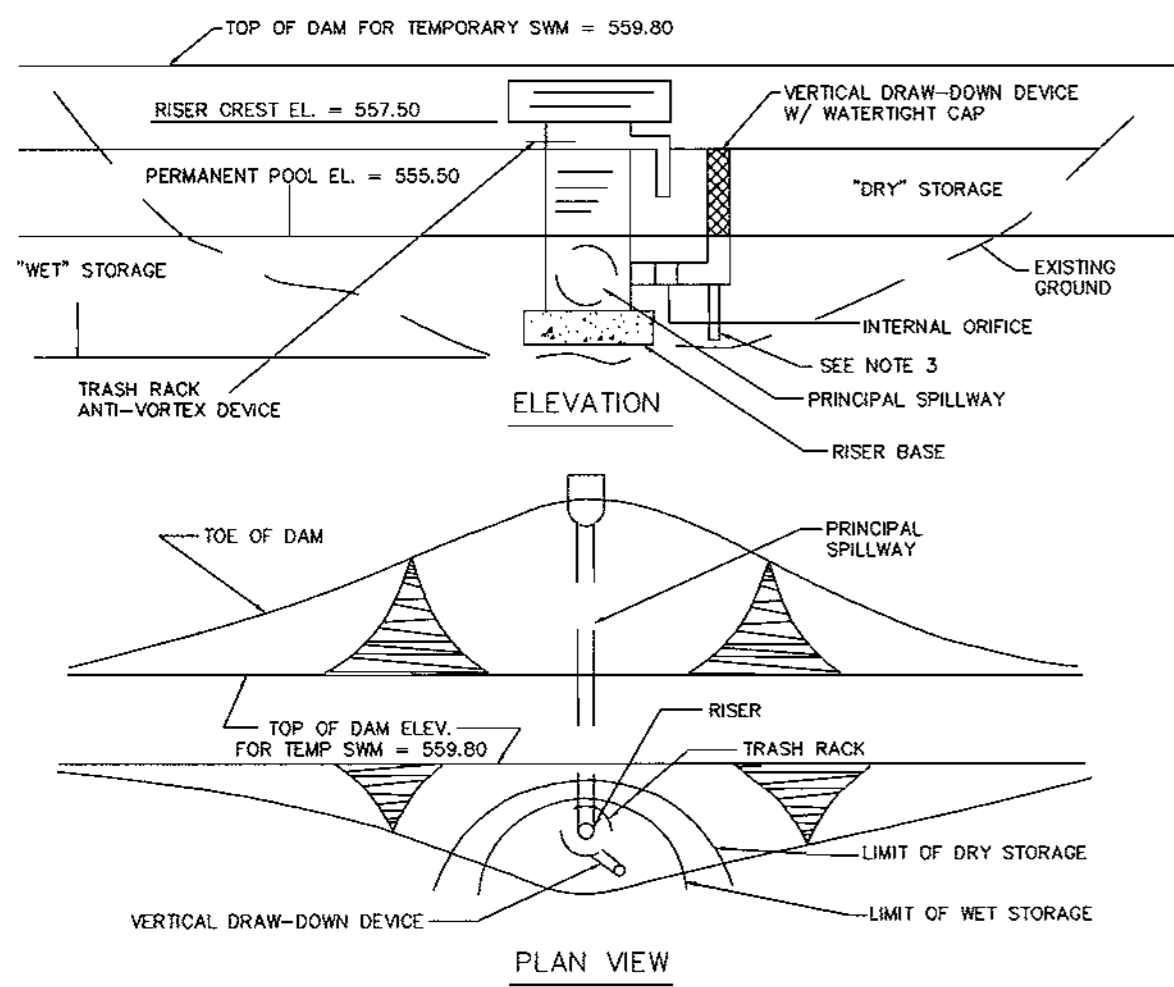
PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

WATER CODE	SEWER CODE
PRIVATE	PRIVATE

LANDSCAPE AND SEDIMENT CONTROL PLAN
ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1

TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 2 OF 8

FISHER, COLLINS & CARTER, INC.
Civil, Engineering Consultants & Land Surveyors
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
LUCOTT CITY, MARYLAND 21092
(410) 461-2855



- CONSTRUCTION SPECIFICATIONS**
- PERFORATIONS IN THE DRAW-DOWN DEVICE MAY NOT EXTEND INTO THE WET STORAGE.
 - THE TOTAL AREA OF THE PERFORATIONS MUST BE GREATER THAN 2 TIMES THE AREA OF THE INTERNAL ORIFICE.
 - THE PERFORATED PORTION OF THE DRAW-DOWN DEVICE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE GEOTEXTILE FABRIC SHALL MEET THE SPECIFICATIONS FOR GEOTEXTILE CLASS E.
 - PROVIDE SUPPORT OF DRAW-DOWN DEVICE TO PREVENT SAGGING AND FLOATATION. AN ACCEPTABLE PREVENTATIVE MEASURE IS TO STAKE BOTH SIDES OF DRAW-DOWN DEVICE WITH 1" STEEL ANGLE OR 1" BY 4" SQUARE OR 2" ROUND WOODEN POSTS SET 3' MINIMUM INTO THE GROUND THEN JOINING THEM TO THE DEVICE BY WRAPPING WITH 12 GAUGE MINIMUM WIRE.

SIZE	MATERIAL	LENGTH
6"	HDPE	36'
15"	HDPE	59'
18"	HDPE	41'
24"	HDPE	402'
18"	C.M.P.	14'
24"	RCCP	65'

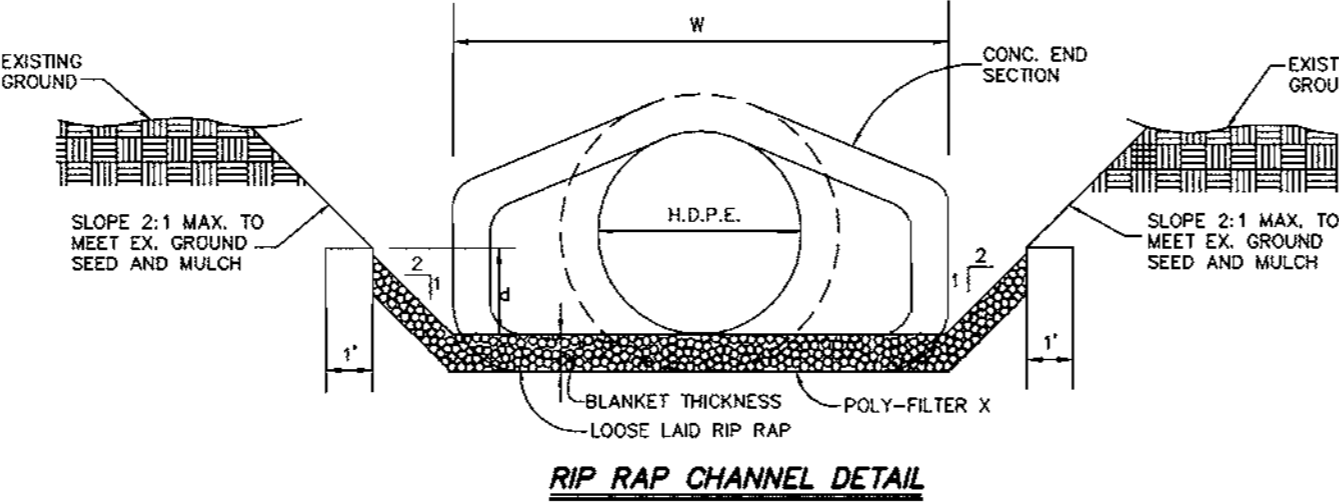
**BASIN DRAWDOWN SCHEMATIC
VERTICAL DRAW-DOWN DEVICE**
NOT TO SCALE

DESIGN SUMMARY (TR-20)						
DESIGN STORM	CONTROL STRUCTURE ELEV.	ALLOWABLE RELEASE RATE	FACILITY INFLOW	FACILITY STORAGE	WATER SURFACE ELEVATION	STORAGE VOLUME (MG) (REQUIRED)
2 YEAR	553.00	0.70 CFS	---	0.84 CFS	553.57	0.24
10 YEAR	553.50	1.01 CFS	---	5.00 CFS	554.70	0.54
100 YEAR	555.61	N/A	---	12.3 CFS	555.02	0.91

WATERSHED AREA TO FACILITY (ACRES): 7.96 AC - BURNING CONSTRUCTION
DRAINAGE AREA TO FACILITY = 0.0124 SQ. MI. OR 7.96 ACSI

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

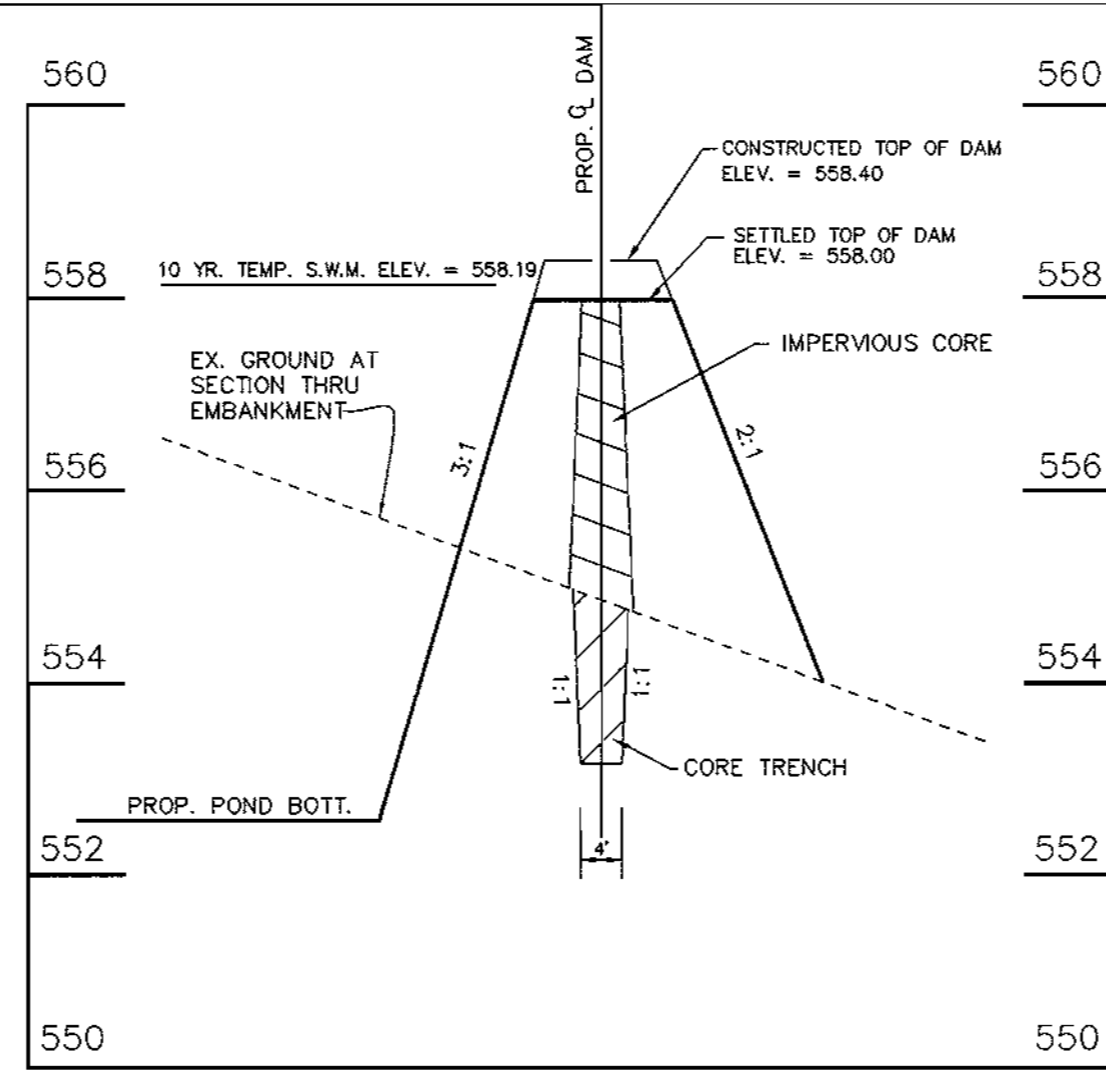
- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when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



RIP-RAP CHANNEL DESIGN DATA													
STRUCTURE	AREA	WETTED PERIMETER	R	R 2/3	S	S 1/2	W	d	N	V10 (f.p.s.)	Q10 (c.f.s.)	BLANKET THICKNESS	BLANKET THICKNESS
S-1	6.4512	9.757	0.6612	0.7579	0.0050	0.0707	6.0'	0.84	0.04	1.99	12.73	9.5"	19"
S-2	6.4512	9.757	0.6612	0.7579	0.0244	0.1562	6.0'	0.54	0.04	1.54	12.8	9.5"	19"
S-3	6.4512	9.757	0.6612	0.7579	0.0244	0.1562	6.0'	0.54	0.04	1.54	12.8	9.5"	19"
WATER QUALITY SWALE	1.552	7.073	0.2199	0.3625	0.0050	0.2236	6.0'	0.24	0.04	3.01	4.00	5.5"	7"
OUTFALL CHANNEL OF POND	1.680	6.342	0.2649	0.4106	0.0244	0.1562	5.0'	0.30	0.04	2.38	3.54	5.5"	7"

SECTION THRU EARTH EMBANKMENT

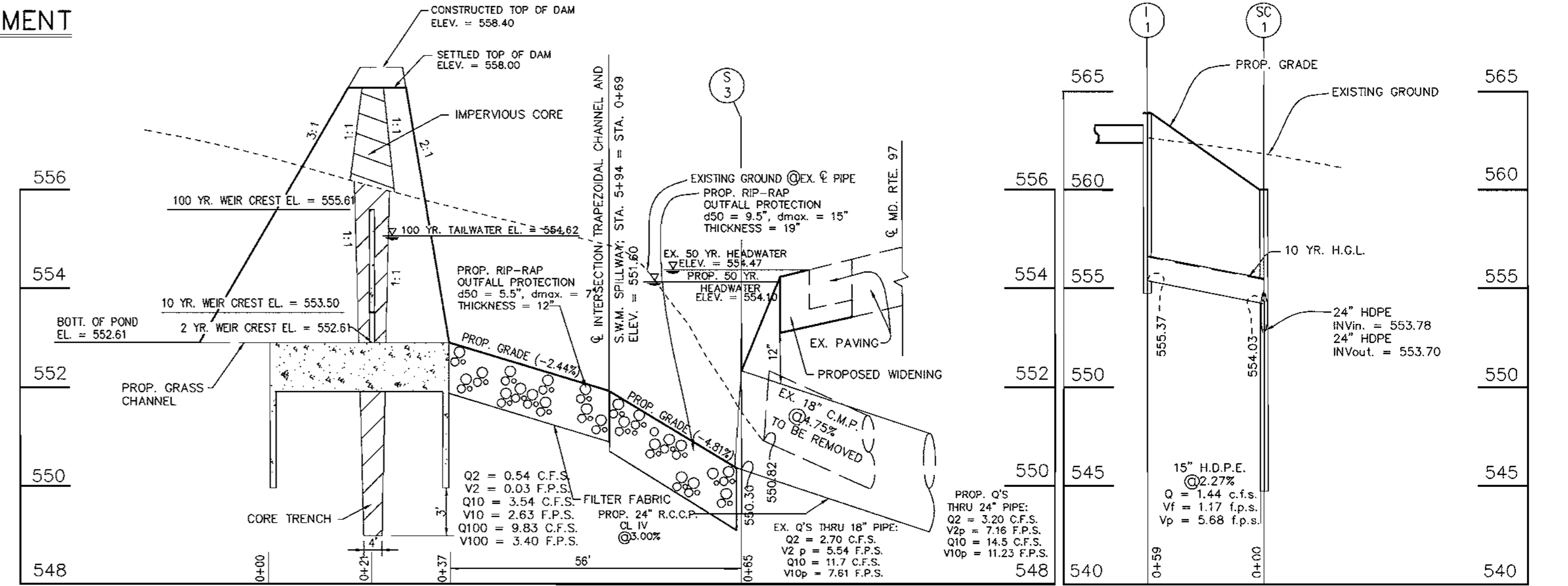
SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'



STRUCTURE SCHEDULE									
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	BASELINE STA.	OFFSET	TYPE	REMARKS	
I-1	563.90	---	555.37	---	R STA. 11+38.5	36'L	A-5 INLET	S.D. - 4.40	
I-2	560.23	555.51	555.01	---	R STA. 6+25.4	94'R	A-5 INLET	S.D. - 4.40	
I-3	559.17	---	555.67	---	R STA. 5+02	12'L	A-5 INLET	S.D. - 4.40	
I-4	557.00	553.43	553.18	---	R STA. 1+53	67'R	'D' INLET	S.D. - 4.11	
M-1	562.00	554.35	554.10	---	R STA. 2+65	27'R	STD. MANHOLE	G. - 5.12	
** SC-1	560.00	553.53, 554.03	553.45	---	N 592,491.69 E 1,304,916.11	---	STORMCEPTOR	MODEL 2400	
* S-1	555.05	553.05	553.00	---	N 592,489.70 E 1,304,988.54	---	HDPE END SECTION	MD - 368.01	
S-2	550.35	548.35	548.25	---	N 592,534.43 E 1,305,245.04	---	CONC. END SECTION	MD - 368.01	
S-3	552.30	550.30	550.20	---	N 592,568.07 E 1,305,191.90	---	CONC. END SECTION	MD - 368.01	

* - CONTACT ADVANCED DRAINAGE SYSTEMS
3300 RIVERSIDE DRIVE
COLUMBUS, OHIO 43221
PHONE: 1-800-733-7473

** - CONTACT STORMCEPTOR AT 1-724-327-3400
MR. ANDREW VIROSTEK
CAMTEK CONSTRUCTION PRODUCTS

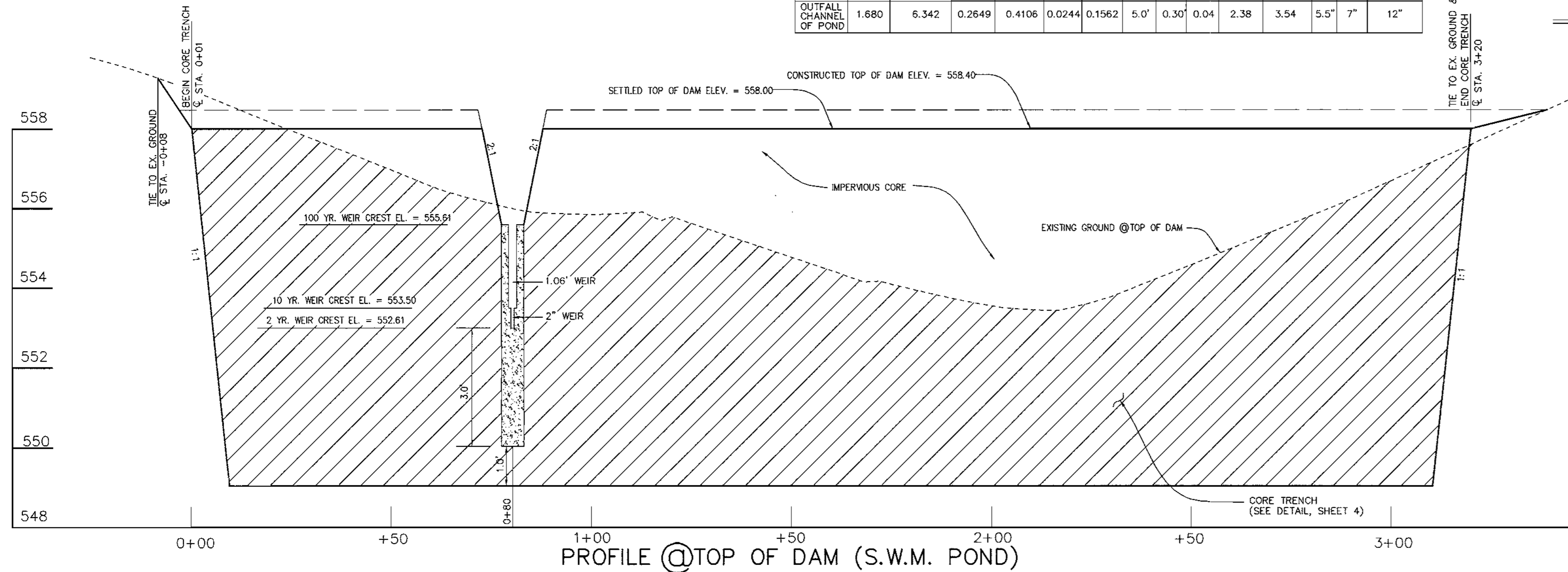


PROFILE THRU SPILLWAY (S.W.M. POND)

SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'

PROFILE

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



PROFILE @ TOP OF DAM (S.W.M. POND)

SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
ELLSWORTH, MARYLAND 21042
(410) 431 - 2855

DATE	REVISION	DESCRIPTION

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer (Print name below signature) *John May* Date *8/19/01*

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I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic inspection by the Howard Soil Conservation District.

Signature of Developer (Print name below signature) *John May* Date *8/19/01*

Reviewed for HOWARD SCD and meets Technical Requirements.

Signature of *John May* Date *8/19/01*

U.S.D.A. Natural Resources Conservation Service

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature of *John May* Date *8/19/01*

Howard SCD

OWNER
ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
GLENWOOD, MARYLAND 21738
(410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature of *John May* Date *8/19/01*

Chief, Division of Land Development

Signature of *John May* Date *8/19/01*

Chief, Development Engineering Division

Signature of *John May* Date *8/19/01*

Director, Department of Planning and Zoning

PROJECT: ST. ANDREWS EPISCOPAL CHURCH SECTION/AREA: "WOODSIDE ESTATES" LOT NO: 1

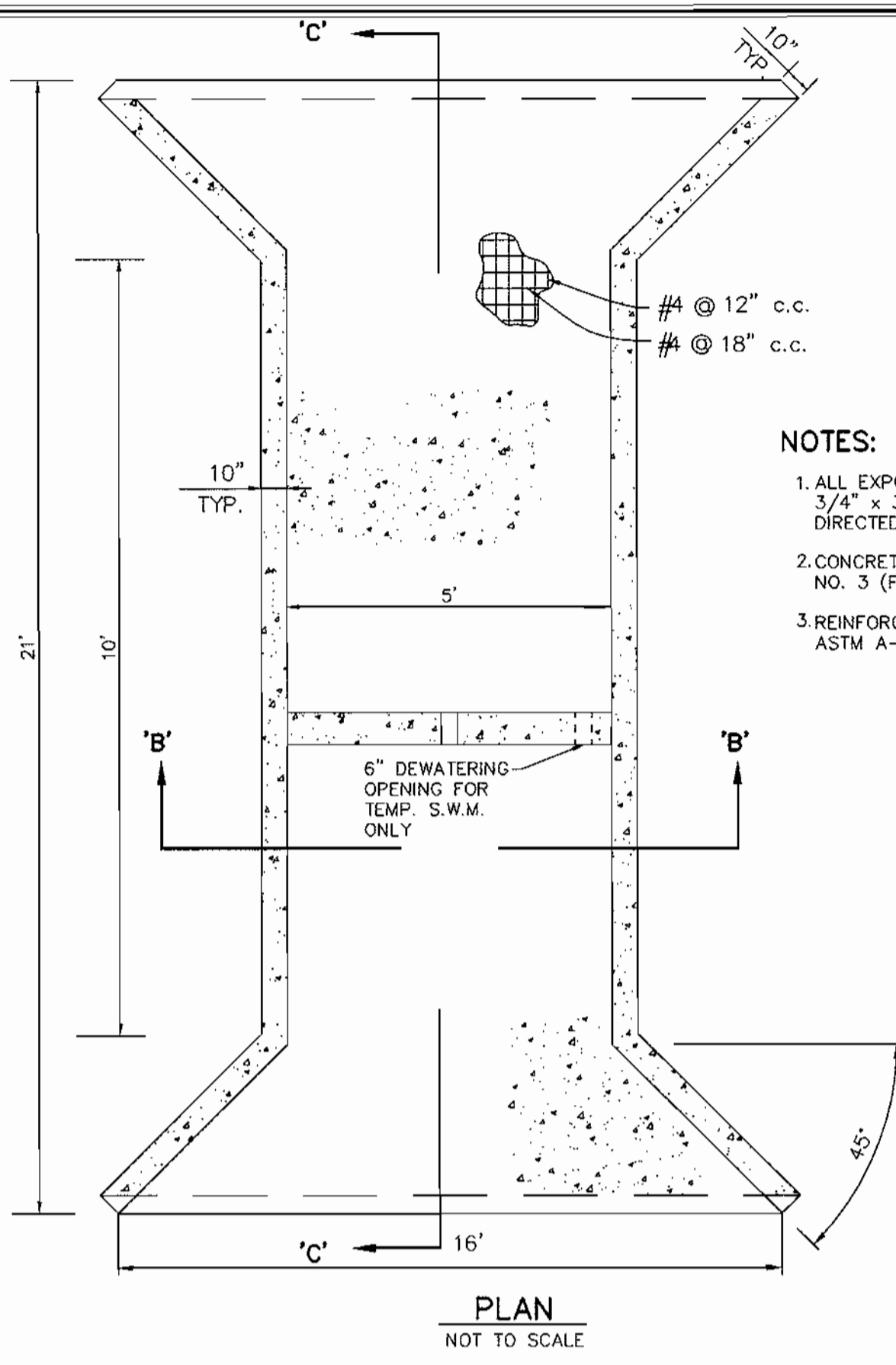
PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DED	14	4TH	6040

WATER CODE: PRIVATE SEWER CODE: PRIVATE

**STORMWATER MANAGEMENT PROFILES,
STORM DRAIN PROFILES AND DETAIL SHEET**

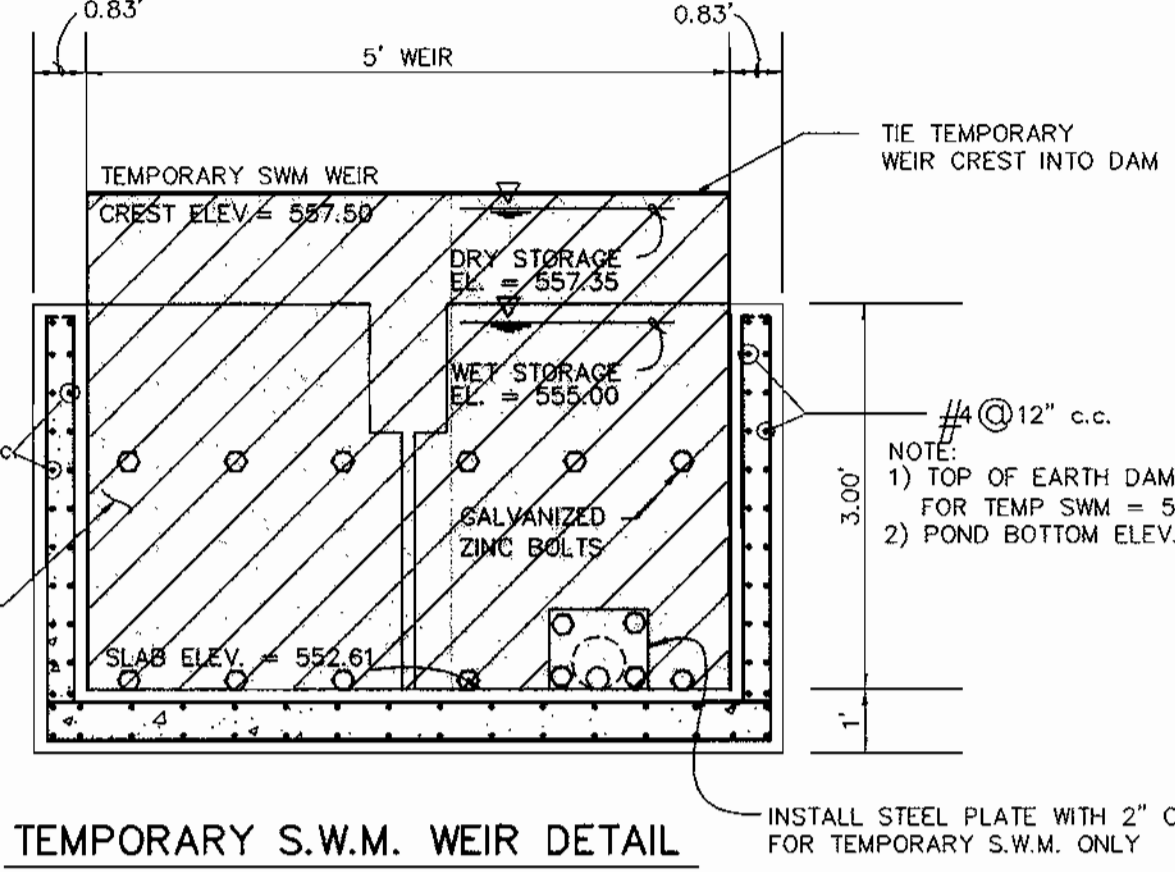
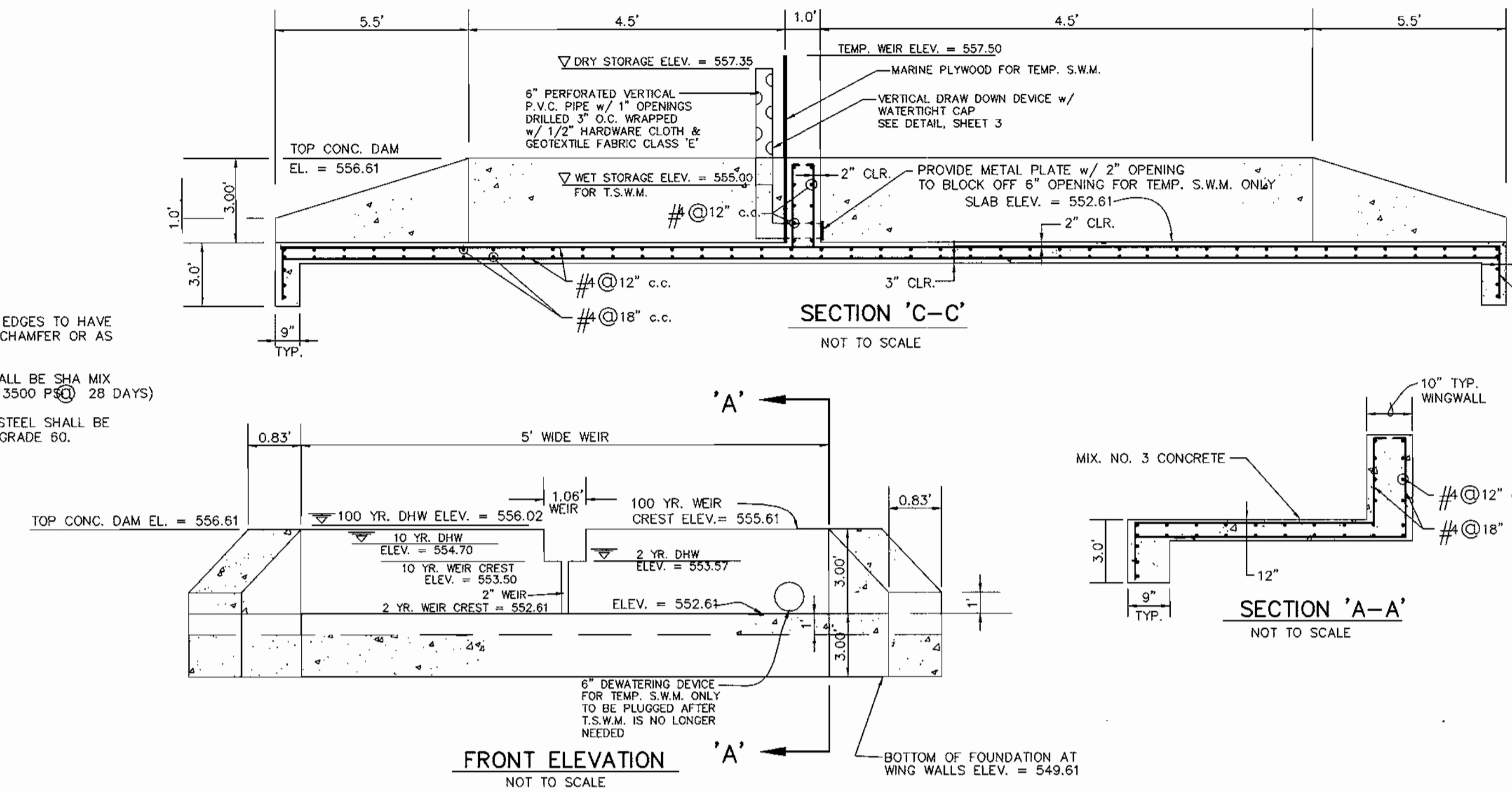
**ST. ANDREWS
EPISCOPAL CHURCH**
WOODSIDE ESTATES
LOT 1

TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 3 OF 8



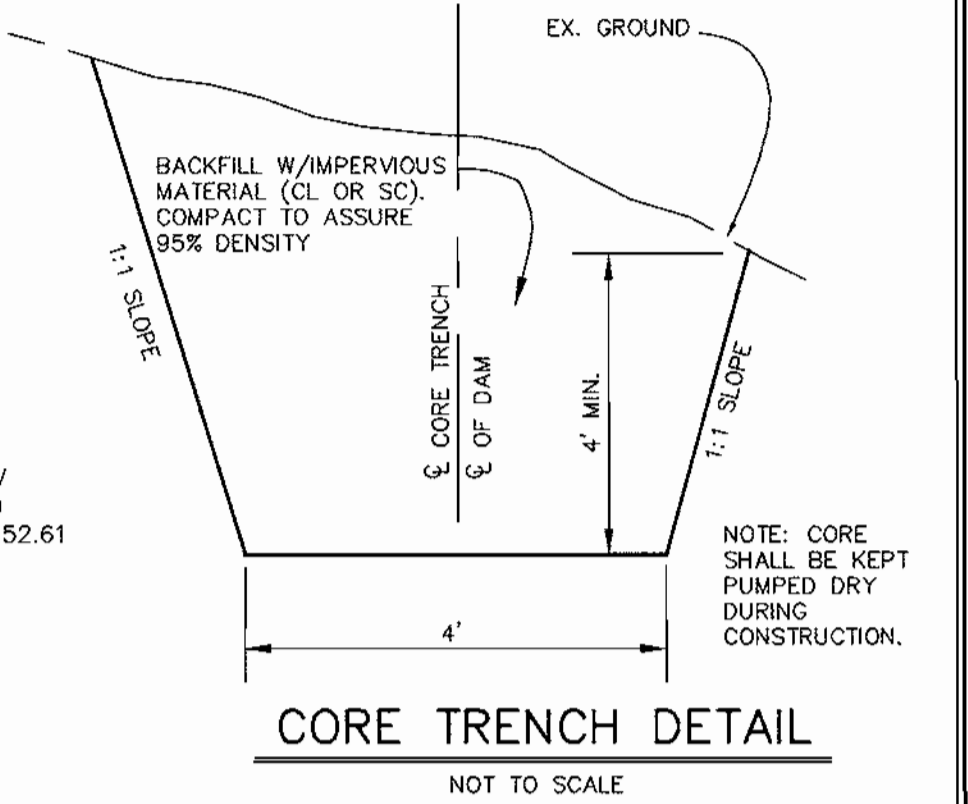
- NOTES:**
1. ALL EXPOSED EDGES TO HAVE 3/4" x 3/4" CHAMFER OR AS DIRECTED.
 2. CONCRETE SHALL BE SHA MIX NO. 3 (F_c' = 3500 P_s' 28 DAYS)
 3. REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60.

CONCRETE RELEASE DETAILS FOR PRIVATE S.W.M. FACILITY

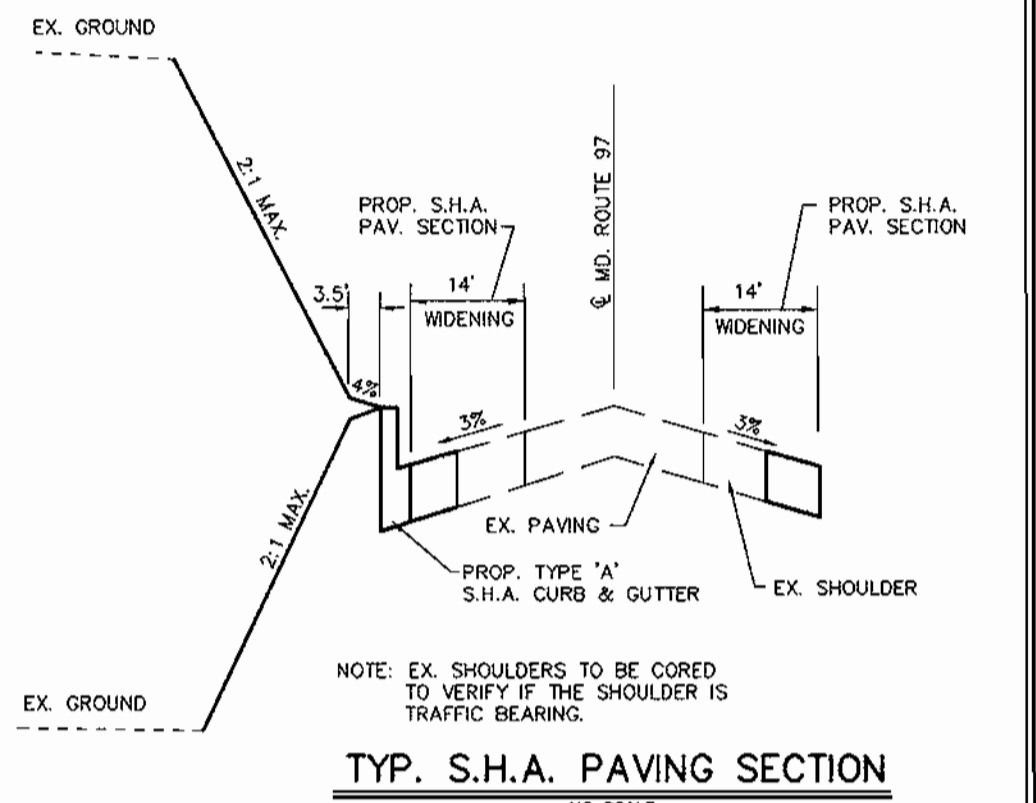


TEMPORARY S.W.M. WEIR DETAIL

SCALE: 1" = 3'
 DENOTES PROPOSED MARINE PLYWOOD TO BE BOLTED INTO CONCRETE WALL FOR TEMPORARY STORMWATER MANAGEMENT



CORE TRENCH DETAIL

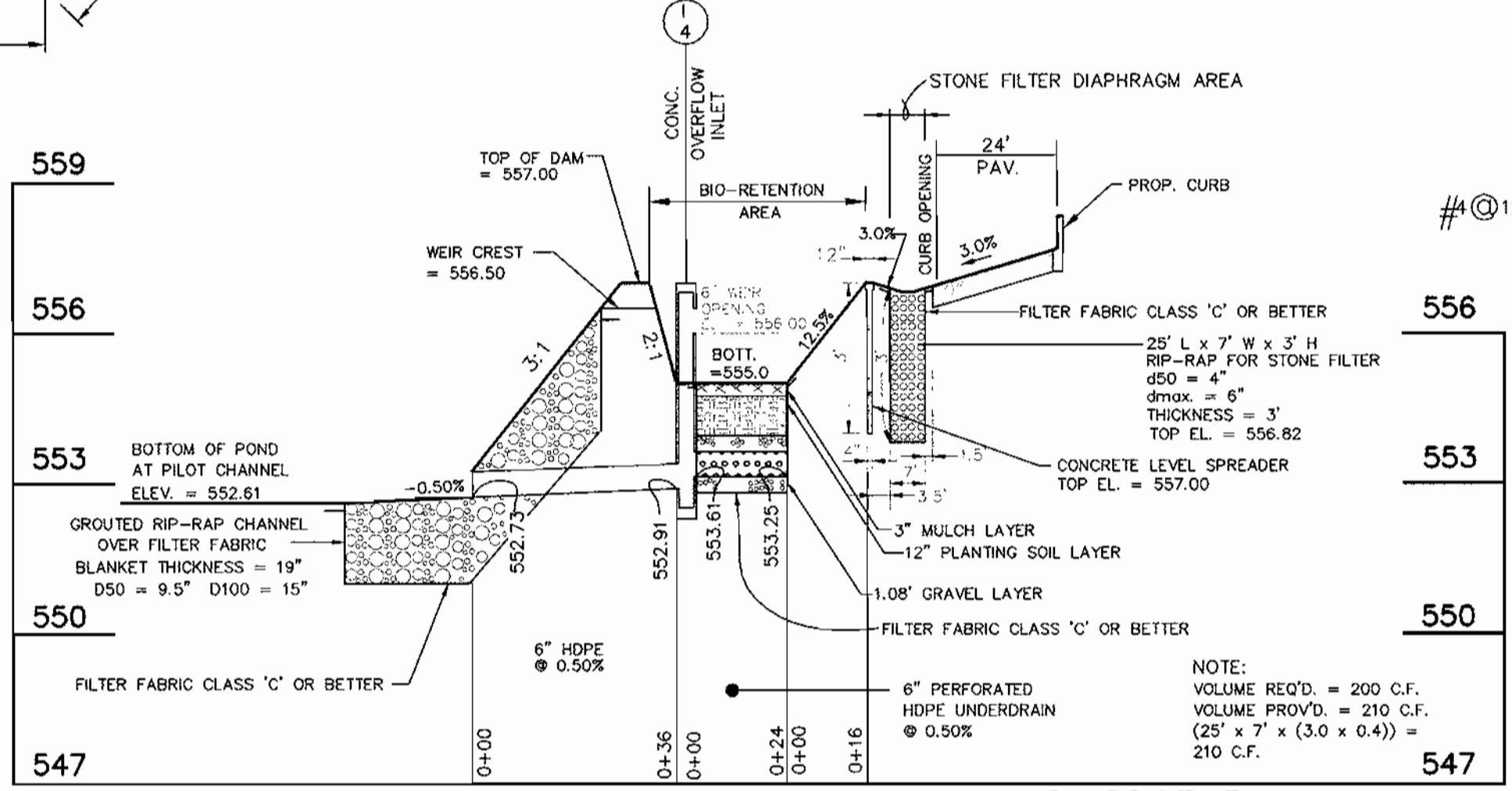


TYP. S.H.A. PAVING SECTION

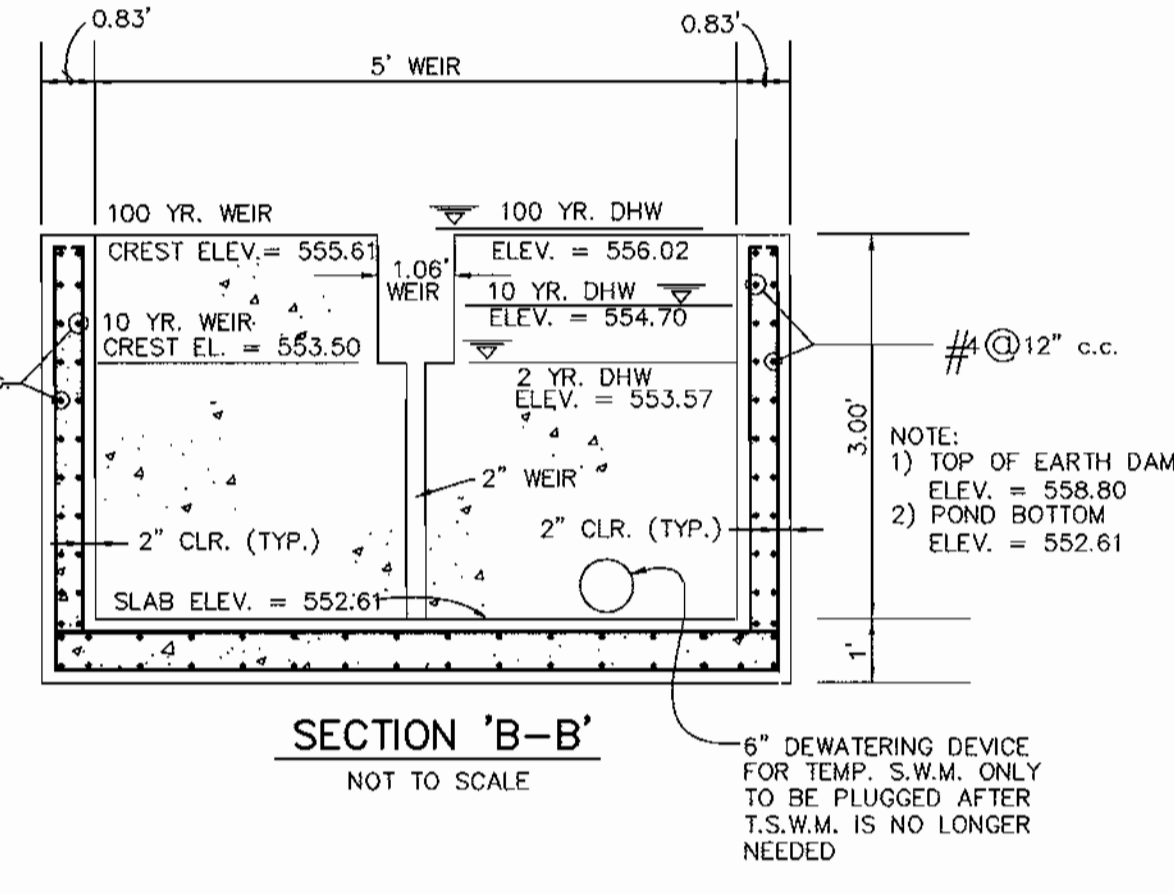
AS-BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ FE NO. _____
 DATE _____

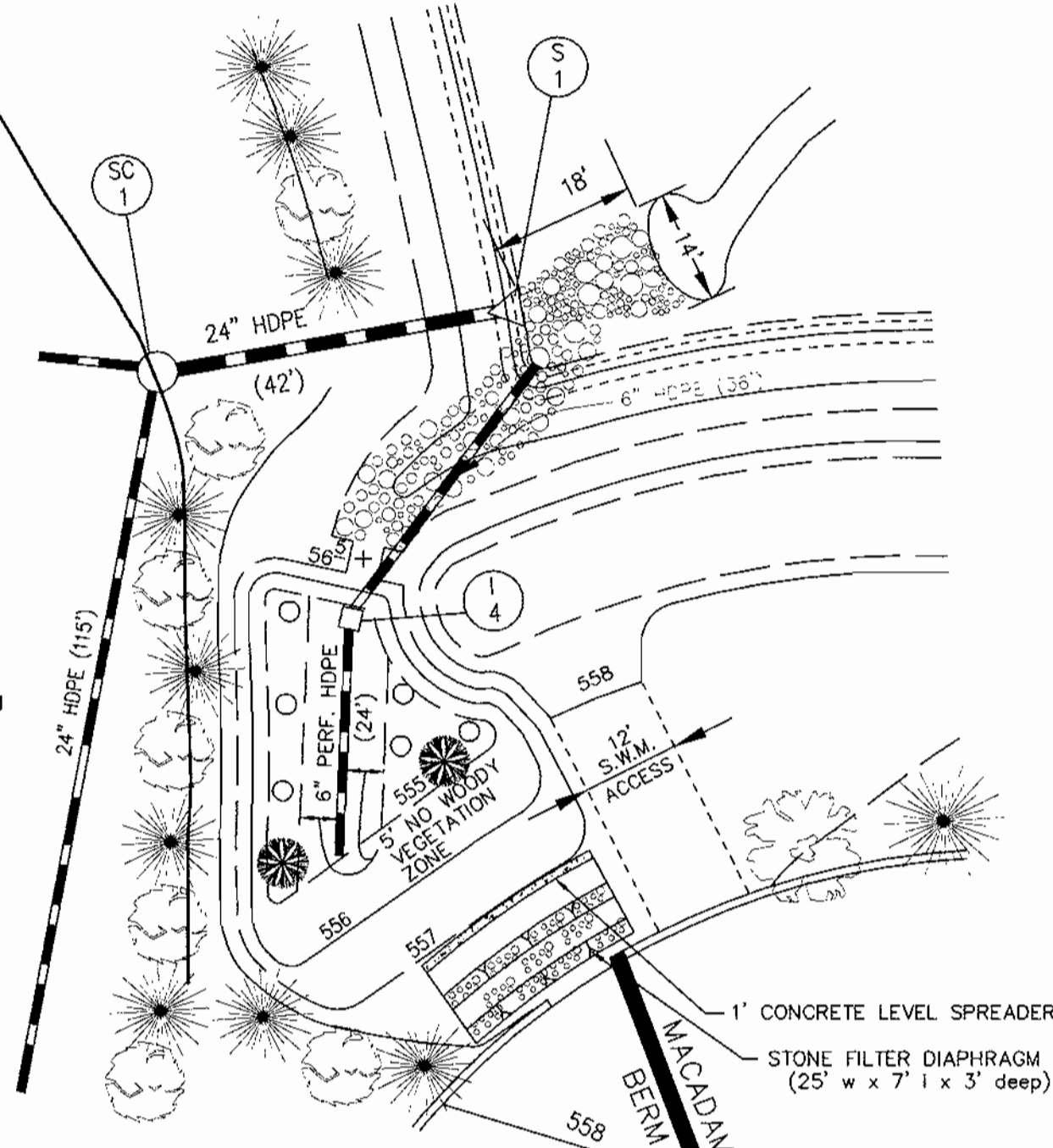
CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. 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 OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.



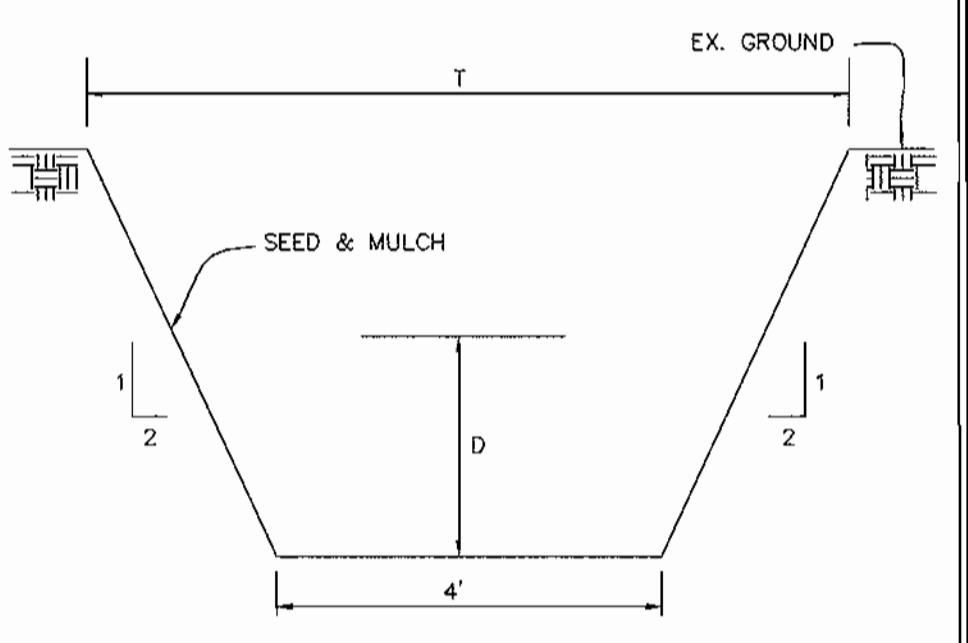
WATER QUALITY BIO-RETENTION FACILITY PROFILE



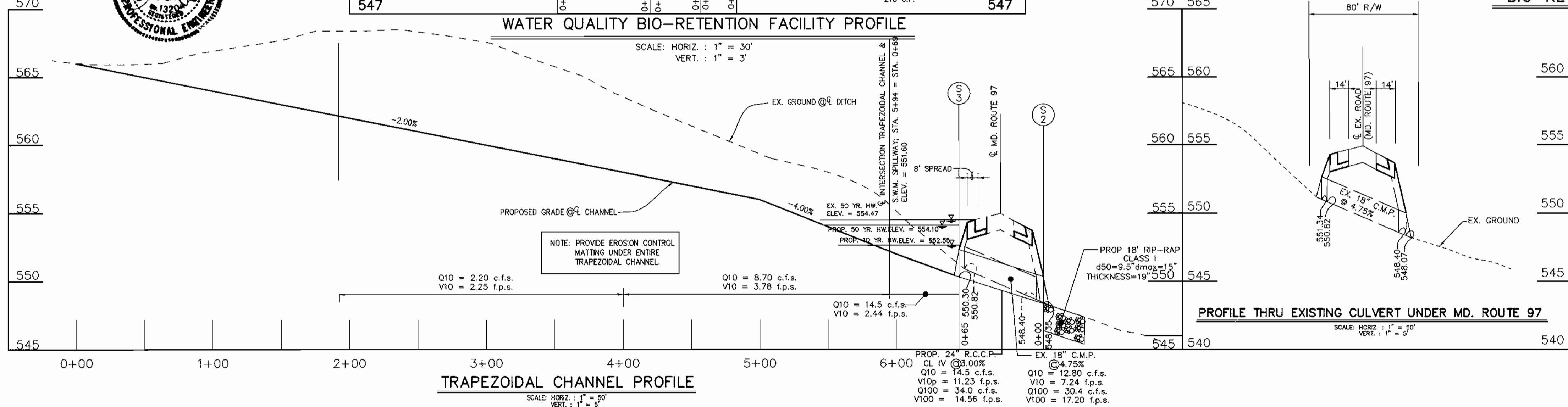
SECTION 'B-B'



BIO-RETENTION AREA ENLARGEMENT



TRAPEZOIDAL CHANNEL DETAIL



TRAPEZOIDAL CHANNEL PROFILE

SCALE: 1" = 30'

QTY.	KEY	DESCRIPTION	NAME
2	(Symbol)	TREE	RED MAPLE ACER RUBRUM
6	(Symbol)	SHRUB	BUTTONBUSH, COMMON CEPHALANTHUS OCCIDENTALIS

PLANTING AREA = 60
 HYDROLOGIC ZONE = ZONE 1

BIO-RETENTION PLANT LIST

- OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREA (F-6)**
1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
 2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
 3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
 4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

NO SCALE

STATION	Q10 C.F.S.	n	DEPTH (D)	SLOPE (A)	AREA (A)	WETTED PERIMETER (P)	PERIMETER (P)	HYDRAULIC RADIUS (R)	TOP WIDTH (T)	V.F.P.S.
2+00	2.20	0.04	0.28'	2.0%	1.2768	5.2522	0.2431	5.12'	2.64	2.64
4+18.20	7.80	0.04	0.44'	2.0%	2.4172	5.9677	0.4050	5.76'	2.86	2.86
4+48.00	7.80	0.04	0.44'	2.0%	2.4172	5.9677	0.4050	5.76'	2.86	2.86

OPERATION AND MAINTENANCE SPECIFICATIONS
 I HEREBY CERTIFY THAT I WILL OPERATE AND MAINTAIN THE COMPLETED POND IN ACCORDANCE WITH THE FOLLOWING:

1. PERIODIC INSPECTIONS OF THE FACILITY WILL BE MADE TO IDENTIFY POTENTIAL PROBLEMS THAT MAY AFFECT ITS SAFETY. THESE INSPECTIONS WILL BE MADE AFTER PERIODS OF HEAVY RAINFALL AND AT LEAST TWICE ANNUALLY. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT INSPECTION. INSPECTION ITEMS TO BE LOOKED AT INCLUDE:
 - A) SPILLWAY AND OUTLET WORKS;
 - B) RIP-RAP;
 - C) VEGETATIVE COVER;
 - D) CRACKS IN THE FILL;
 - E) SLOPE FAILURES; AND
 - F) SEEPAGE AND OTHER SIGNS OF DISTRESS.
2. PROBLEMS IDENTIFIED DURING INSPECTIONS WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS WILL BE BROUGHT TO THE ATTENTION OF THE SOIL CONSERVATION DISTRICT AND THE DAM SAFETY DIVISION OF THE MARYLAND WATER RESOURCES ADMINISTRATION. AS A VERY MINIMAL, GRASSY VEGETATION WILL BE MAINTAINED IN A DENSE AND HEALTHY STATE, AND WOODY VEGETATION WILL NOT BE PERMITTED TO GROW ON THE EMBANKMENT.

OPERATION MAINTENANCE AND INSPECTION
 INSPECTION OF POND(S) SHOW HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

STORMWATER MANAGEMENT DETAIL SHEET

**ST. ANDREWS EPISCOPAL CHURCH
 WOODSIDE ESTATES
 LOT 1**

TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 4 OF 8

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKORTT CITY, MARYLAND 21042
 (410) 461 - 3555

REVISION	DATE	DESCRIPTION

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Signature of Developer (Print name below signature) _____ Date 8/19/01

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.P. - Natural Resources Conservation Service
 Date 9/4/01

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Date 9/4/01

OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RIE, 97 & UNION CHAPEL ROAD
 P.O. BOX 52
 GLENWOOD, MARYLAND 21738
 (410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development
 Date 10/19/01

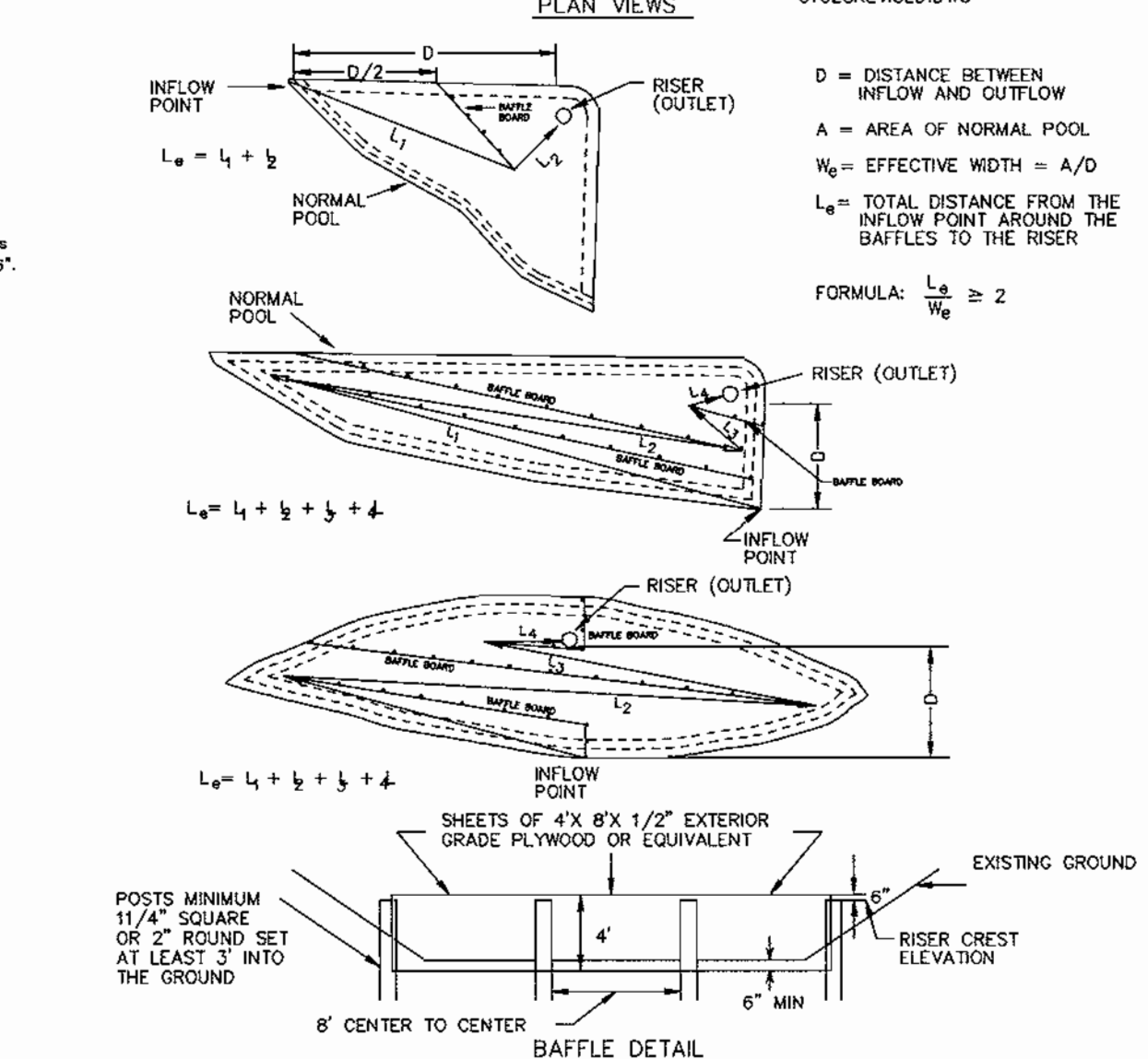
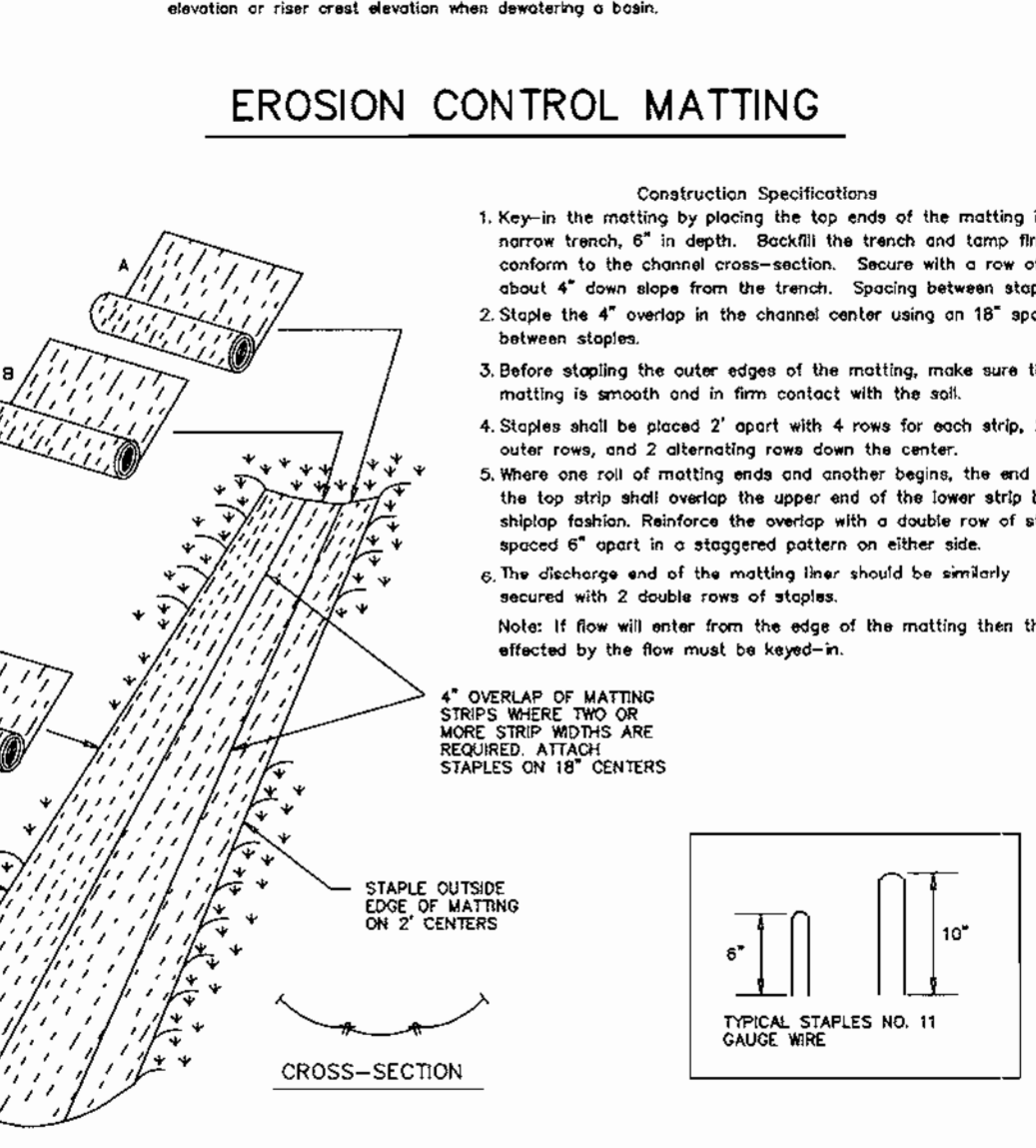
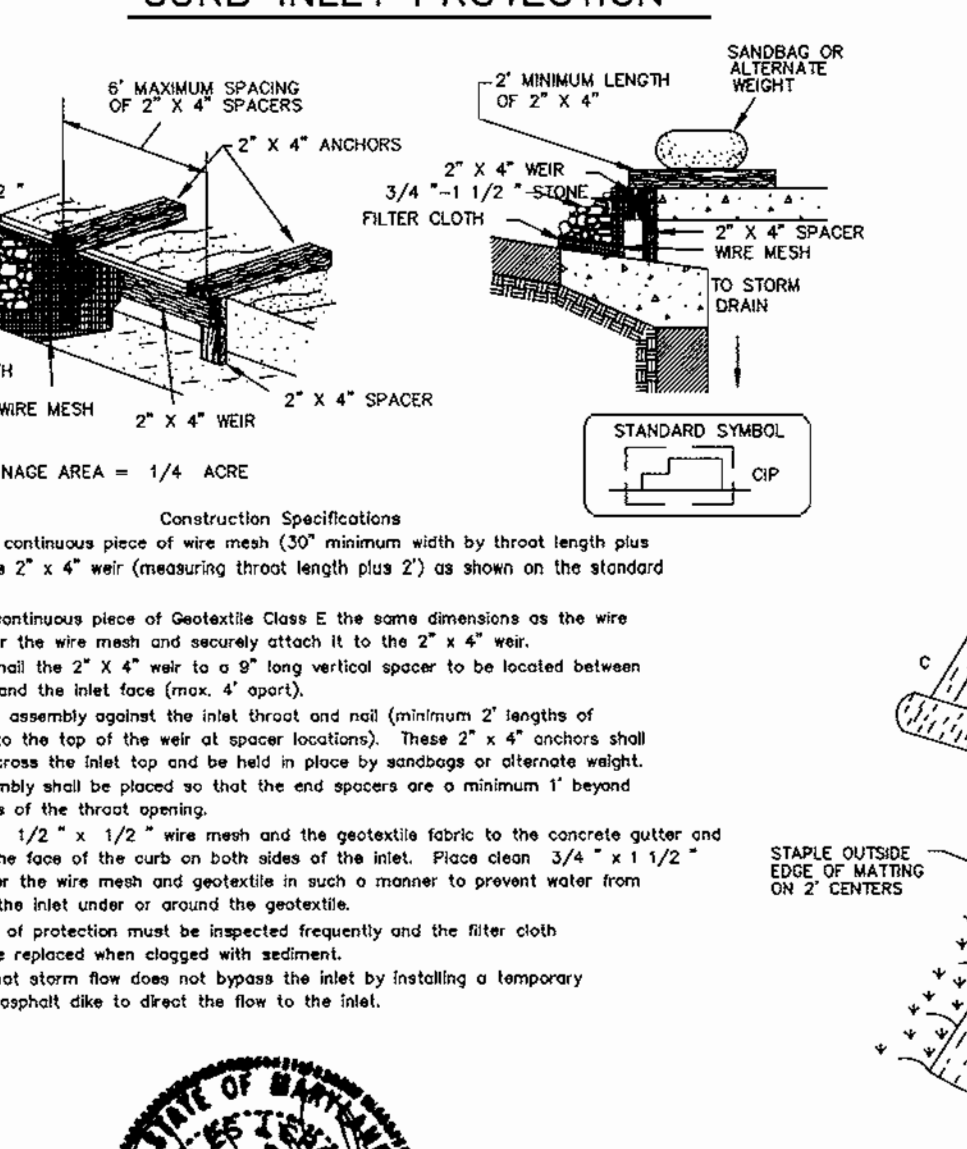
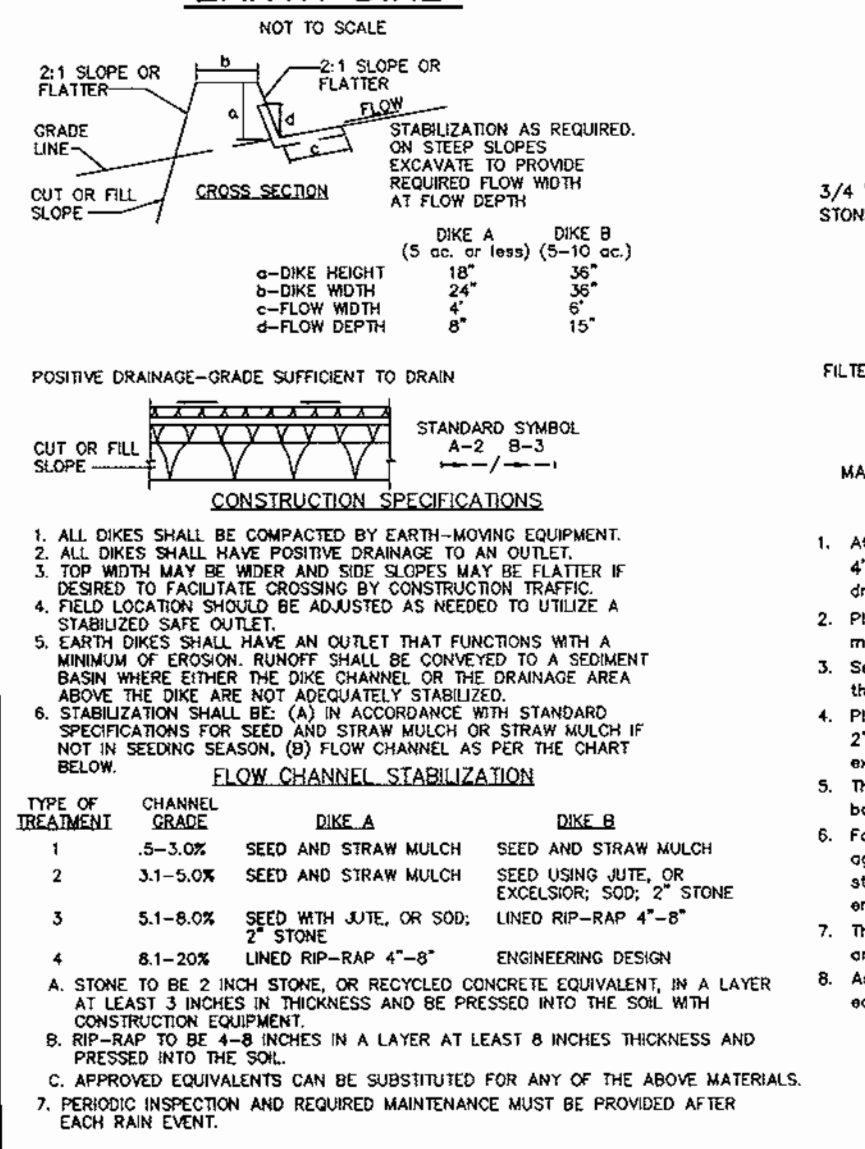
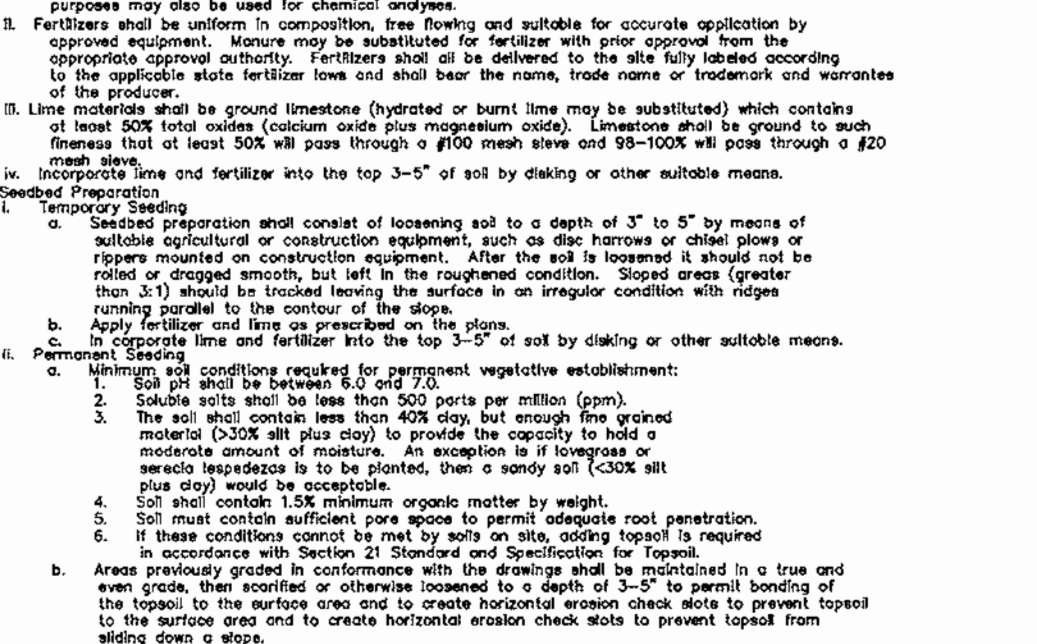
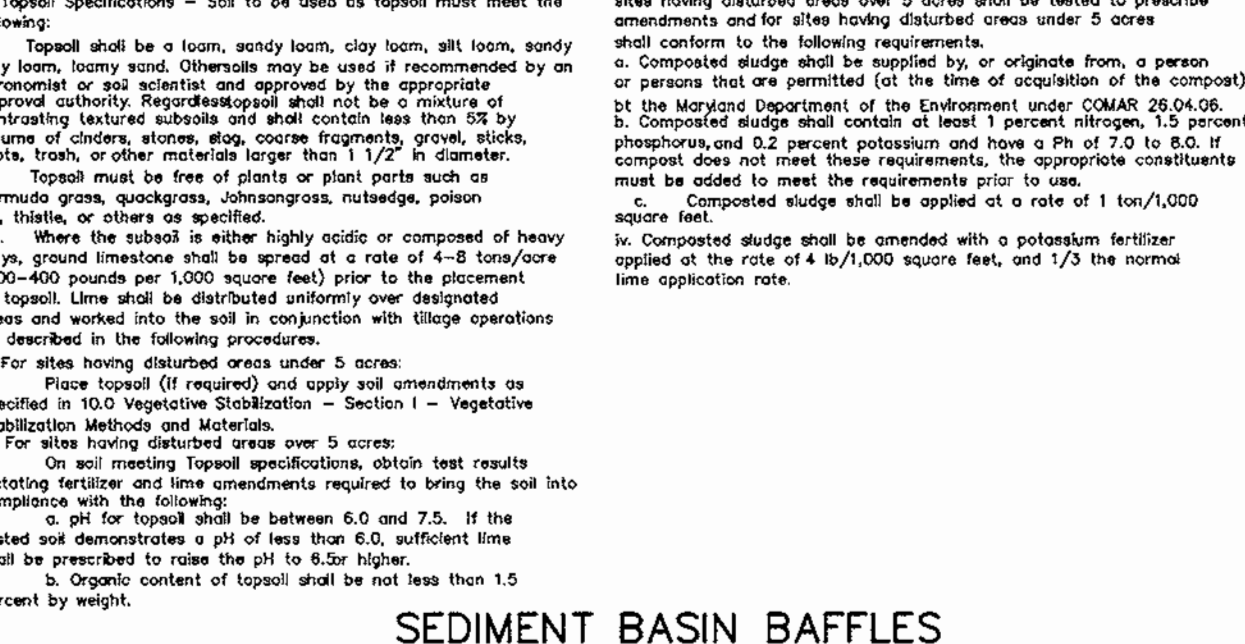
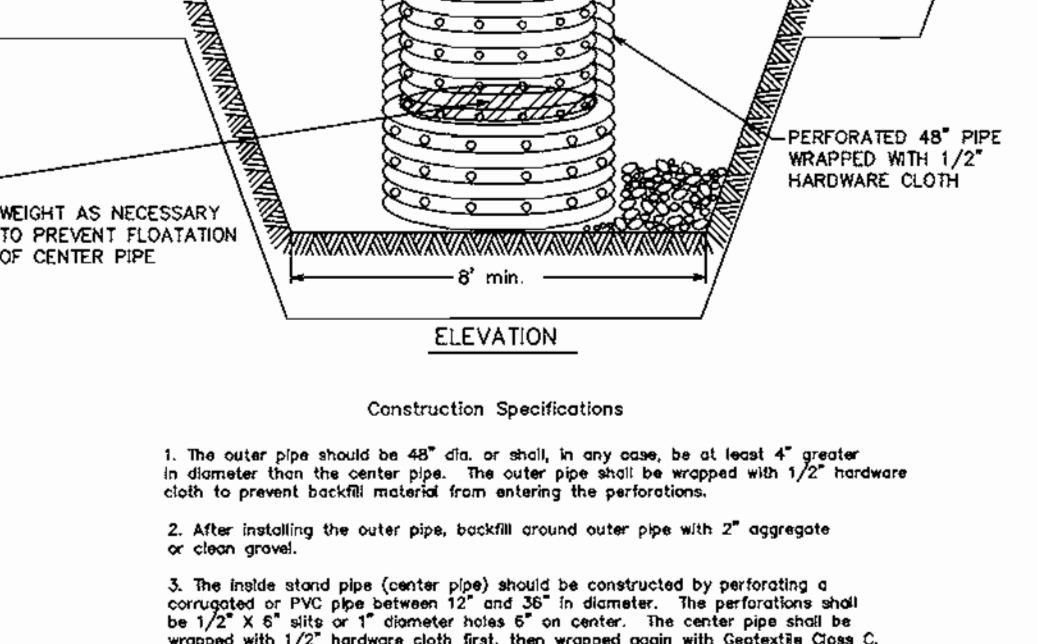
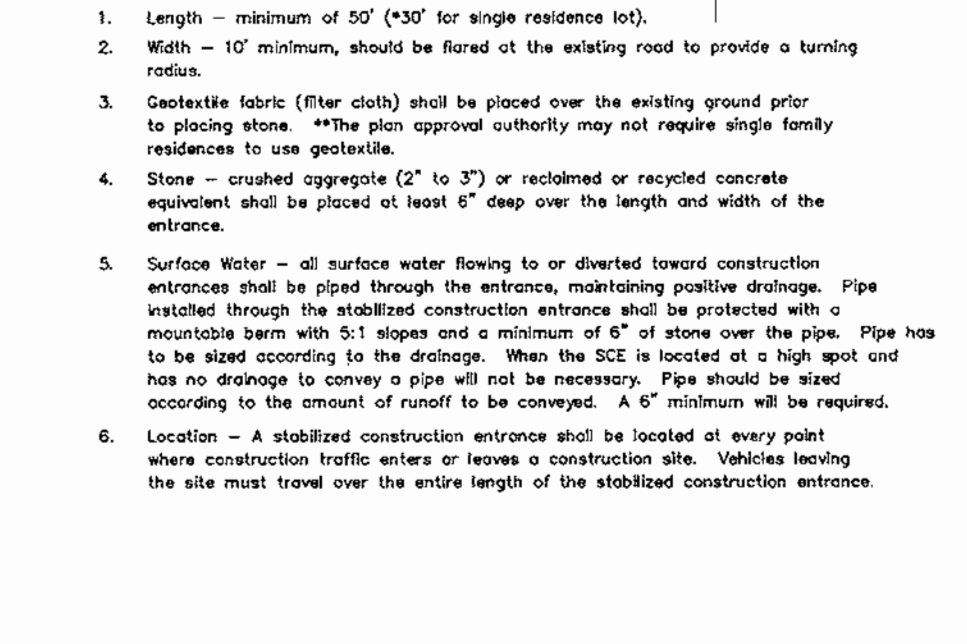
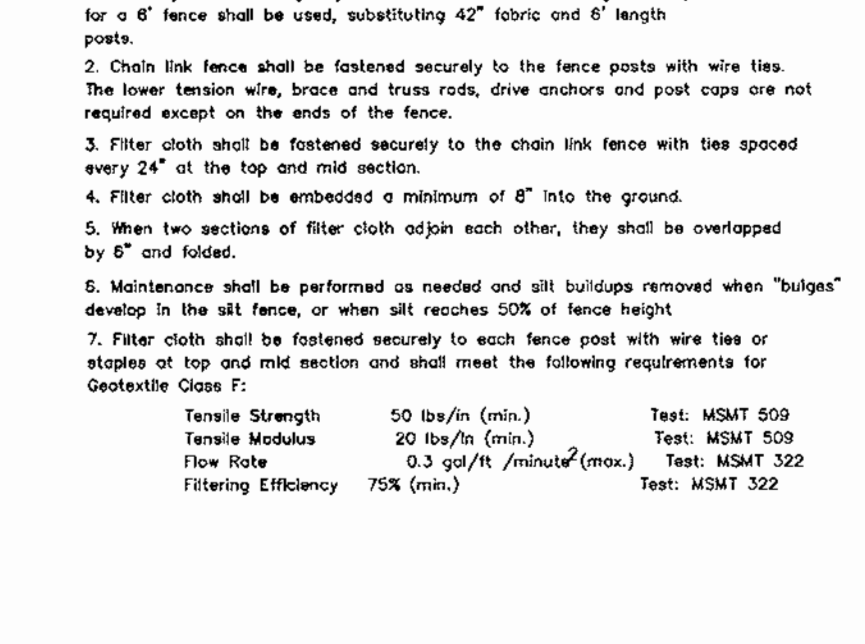
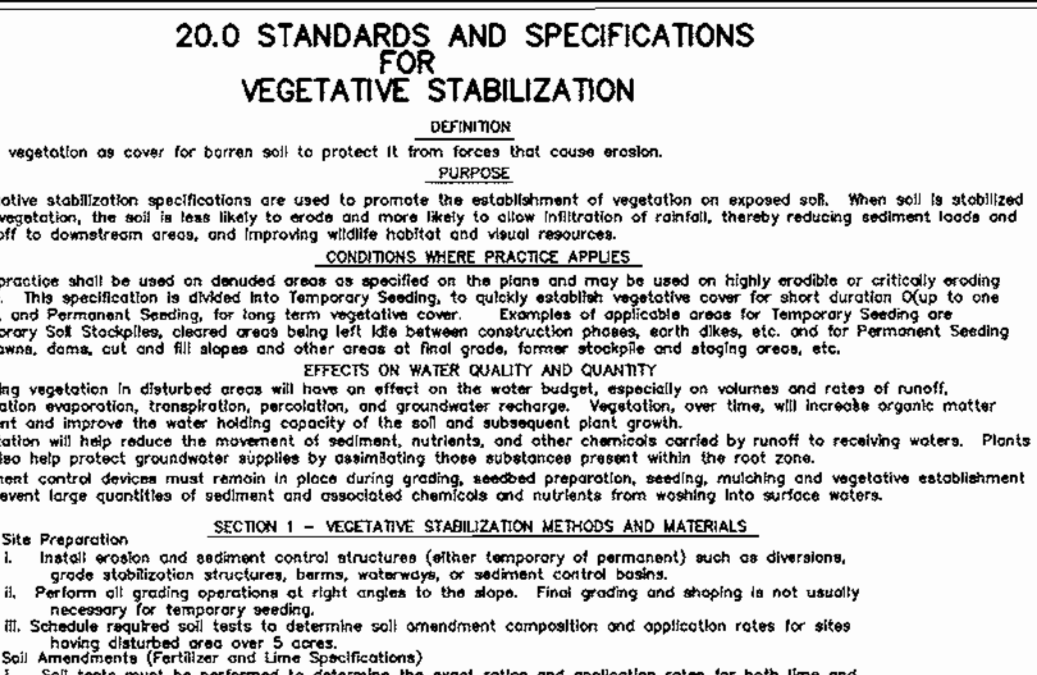
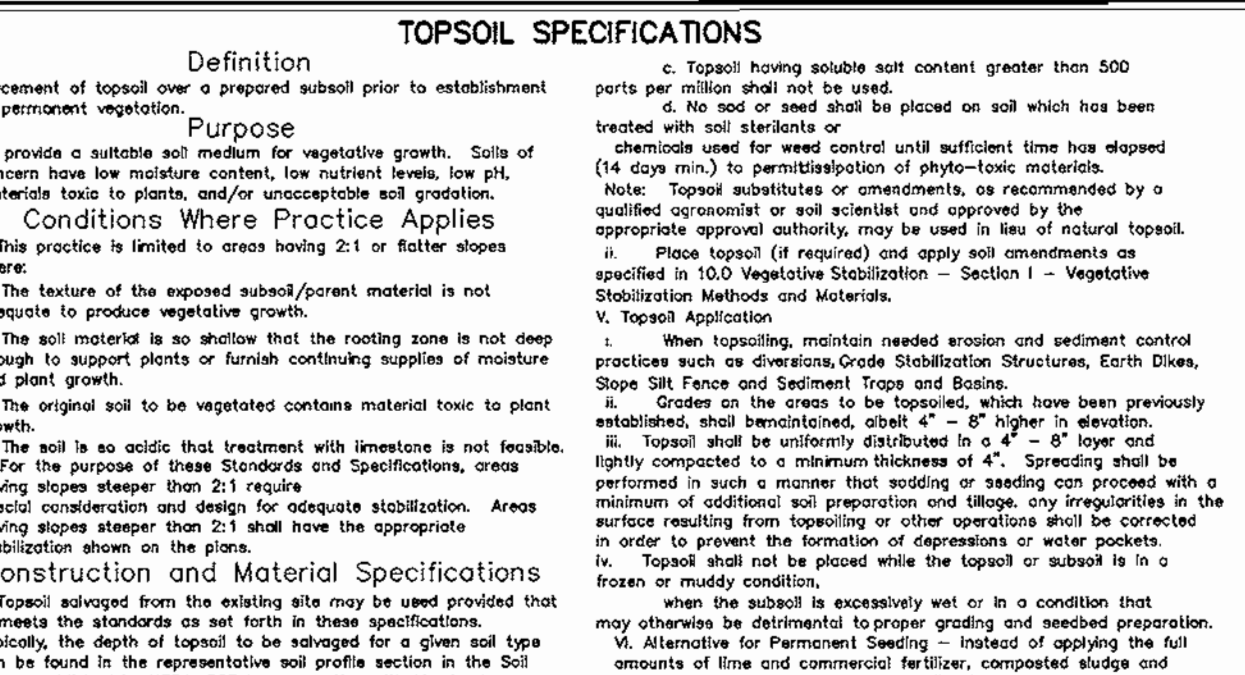
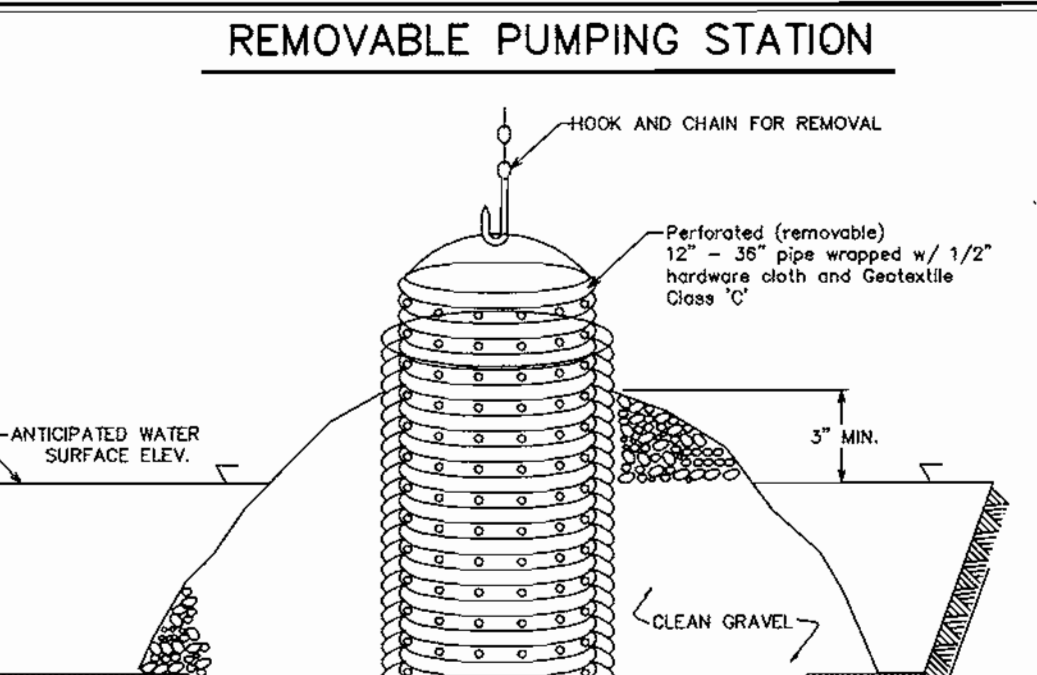
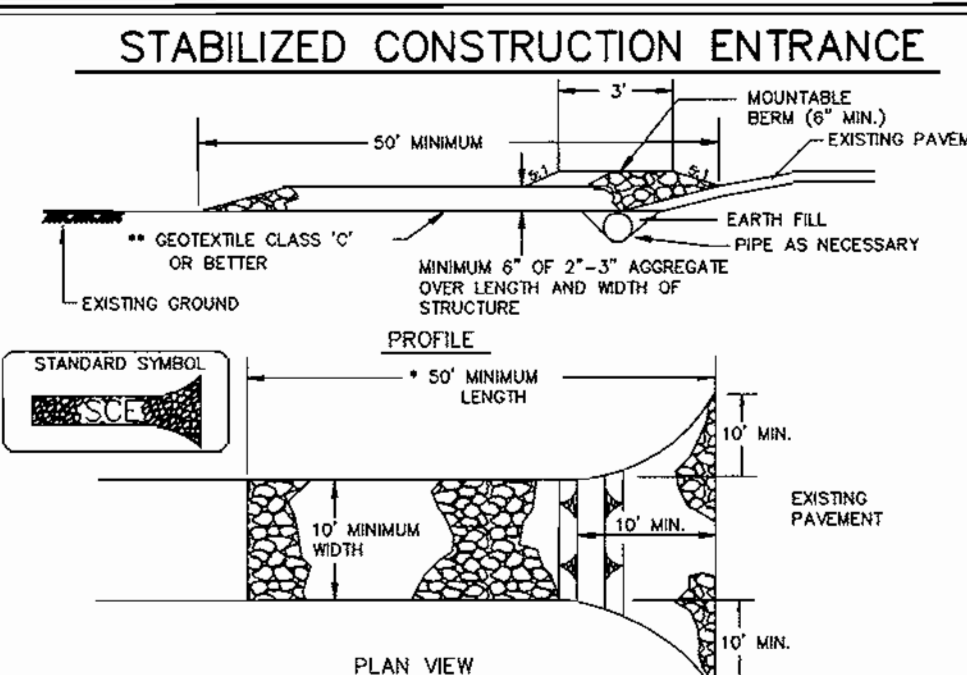
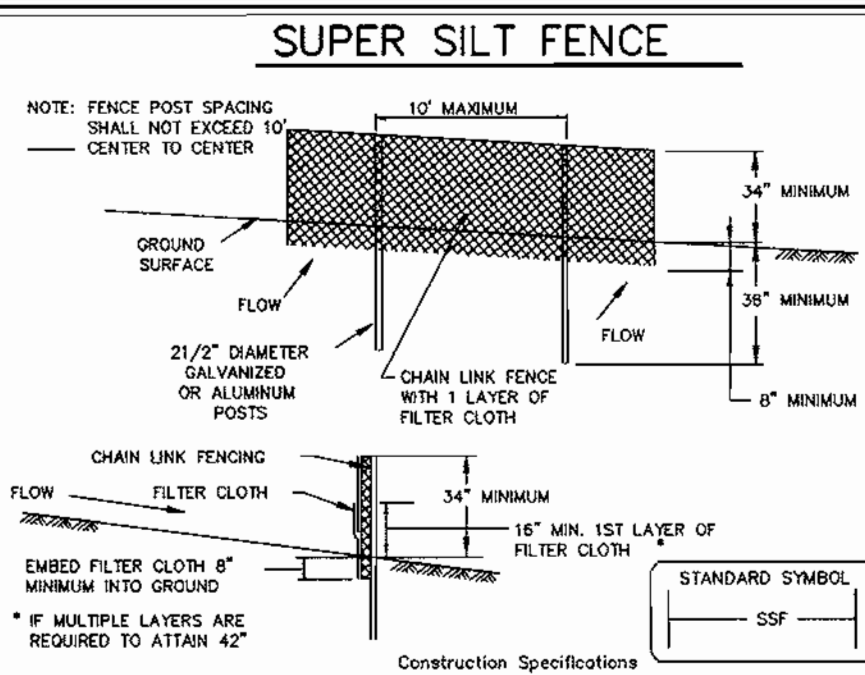
Chief, Development Engineering Division
 Date 9/7/01

Director, Department of Planning and Zoning
 Date 10/19/01

PROJECT	SECTION/AREA	LOT NO.
ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	N/A	1

PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

WATER CODE	SEWER CODE	PRIVATE
PRIVATE	PRIVATE	PRIVATE



TYPE OF CHANNEL	DIKE A	DIKE B	SEED AND STRAW MULCH	SEED AND STRAW MULCH
1. 5'-30\"	SEED AND STRAW MULCH	SEED AND STRAW MULCH	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2. 3'-5'-10\"	SEED AND STRAW MULCH	SEED AND STRAW MULCH	SEED AND STRAW MULCH	SEED AND STRAW MULCH
3. 5'-1'-8\"	SEED WITH JUTE, OR SOG	SEED WITH JUTE, OR SOG	SEED WITH JUTE, OR SOG	SEED WITH JUTE, OR SOG
4. 1'-8\"	SEED WITH RUP-RAP 4\"-6\"	SEED WITH RUP-RAP 4\"-6\"	SEED WITH RUP-RAP 4\"-6\"	SEED WITH RUP-RAP 4\"-6\"

REVISION	DATE	DESCRIPTION
1		
2		
3		

SN	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
STD.	12	18	1/2	1-1/2	2	2	C	1	6	2-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2

SN	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
STD.	12	18	1/2	1-1/2	2	2	C	1	6	2-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2

PLANT SPECIFICATIONS	PLANTING SPECIFICATIONS
1. All plants, material, and operations shall meet the detailed description as given on the plans and as described herein.	1. All plants, material, and operations shall meet the detailed description as given on the plans and as described herein.
2. All plants, material, and operations shall meet the detailed description as given on the plans and as described herein.	2. All plants, material, and operations shall meet the detailed description as given on the plans and as described herein.

PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14843	16	RC-DEO	14	4TH	6040

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SERVICE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
ELLSWORTH CITY, MARYLAND 21042
(410) 441-3055

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

DEVELOPER'S CERTIFICATE
I, the undersigned, certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.

OWNER
ST. ANDREWS EPISCOPAL CHURCH
ST. ANDREWS EPISCOPAL CHURCH
P.O. BOX 52
GLENDEN, MARYLAND 21738
(410) 489-4035

NOTES AND DETAILS
ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES LOT 1
TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 5 OF 8

SDP 01-34



N 576,000
E 1,343,250

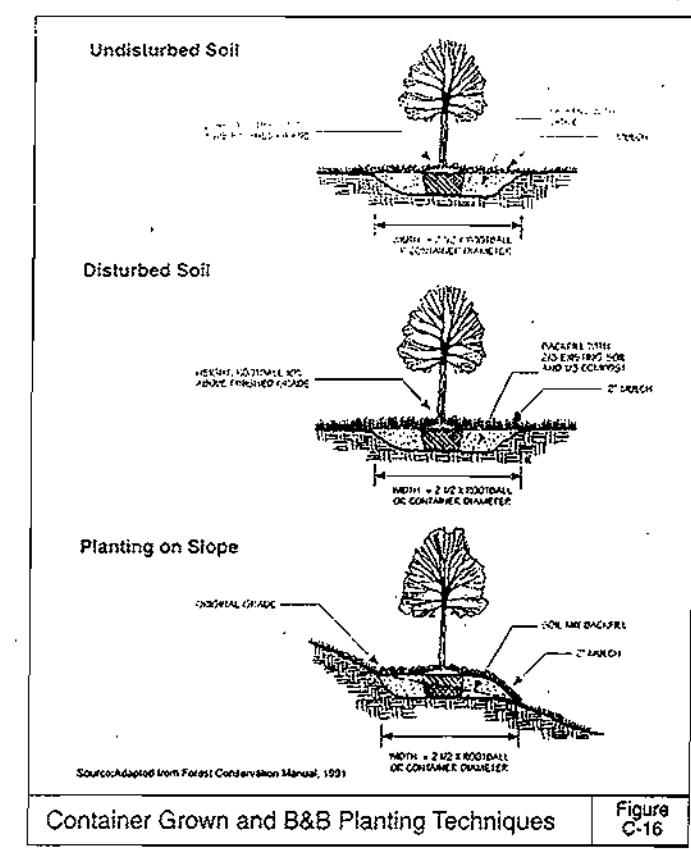
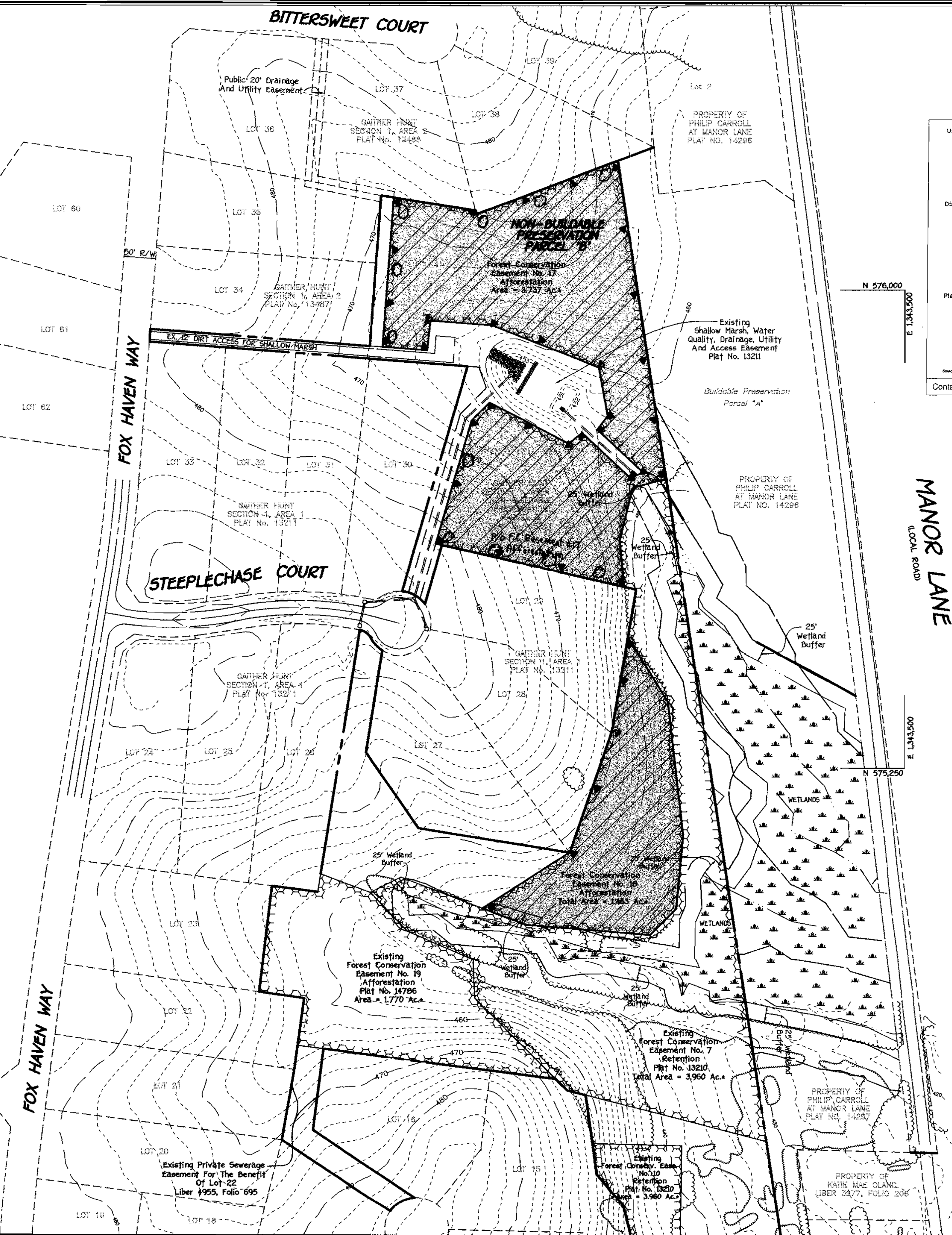
N 576,000
E 1,343,250

N 575,250
E 1,343,500

FCE NOTES

- Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- The Forest Conservation Easements have been established to fulfill the requirements of Section 16.1100 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.
- Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCE boundary, whichever is greater.
- There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County DPZ.
- No stockpiles, parking areas, equipment cleaning areas, etc. shall occur within areas designated as Forest Conservation Easements.
- Temporary fencing shall be used to protect forest resources during construction. The fencing shall be placed along all FCE boundaries which occur within 15 feet of the proposed limits of disturbance.
- Permanent signage shall be placed 50-100' apart along the boundaries of all areas included in Forest Conservation Easements.
- The reforestation plans shown hereon have been prepared to meet the reforestation obligation of the proposed St. Andrews Episcopal Church (Woodside Estates Lot 1), SDP #01-34.

St. Andrews Episcopal Church Site Data	
Gross Area:	Acres
Net Tract Area:	10.4
Existing Forest:	6.3
Conservation Threshold:	2.1
Afforestation Threshold:	1.6
Forest To be Retained in FCE:	0.0
Reforestation Obligation:	5.2
Forestation Proposed:	5.2



Planting Schedule

Qty.	Species	Size	Spacing
4	Acer rubrum - Red maple	1" cal.	**
7	Fraxinus americana - White ash	1" cal.	**
160	Acer rubrum - Red maple	2-3 whip	**
70	Cercis canadensis - Red bud	2-3 whip	**
250	Fraxinus americana - White ash	2-3 whip	**
250	Liriodendron tulipifera - Poplar	2-3 whip	**
90	Nyssa sylvatica - Black gum	2-3 whip	**
150	Prunus serotina - Black cherry	2-3 whip	**
150	Quercus rubra - Red oak	2-3 whip	**
80	Viburnum dentatum - Arrowwood	2-3" b.t.	**
80	Viburnum prunifolium - Blackhaw	2-3" b.t.	**

Qty.	Species	Size	Spacing
4	Acer rubrum - Red maple	1" cal.	**
60	Acer rubrum - Red maple	2-3 whip	**
30	Cercis canadensis - Red bud	2-3 whip	**
90	Fraxinus americana - White ash	2-3 whip	**
90	Liriodendron tulipifera - Poplar	2-3 whip	**
50	Nyssa sylvatica - Black gum	2-3 whip	**
65	Prunus serotina - Black cherry	2-3 whip	**
65	Quercus rubra - Red oak	2-3 whip	**
35	Viburnum dentatum - Arrowwood	2-3" b.t.	**
35	Viburnum prunifolium - Blackhaw	2-3" b.t.	**

Key:
** Plantings to be spaced on 11 foot centers, no shelters required - plantings should be installed in rows to facilitate future maintenance. Where possible rows should be made along contour.

One caliper plants shall be planted in locations shown by -
b.t. - branched transplant

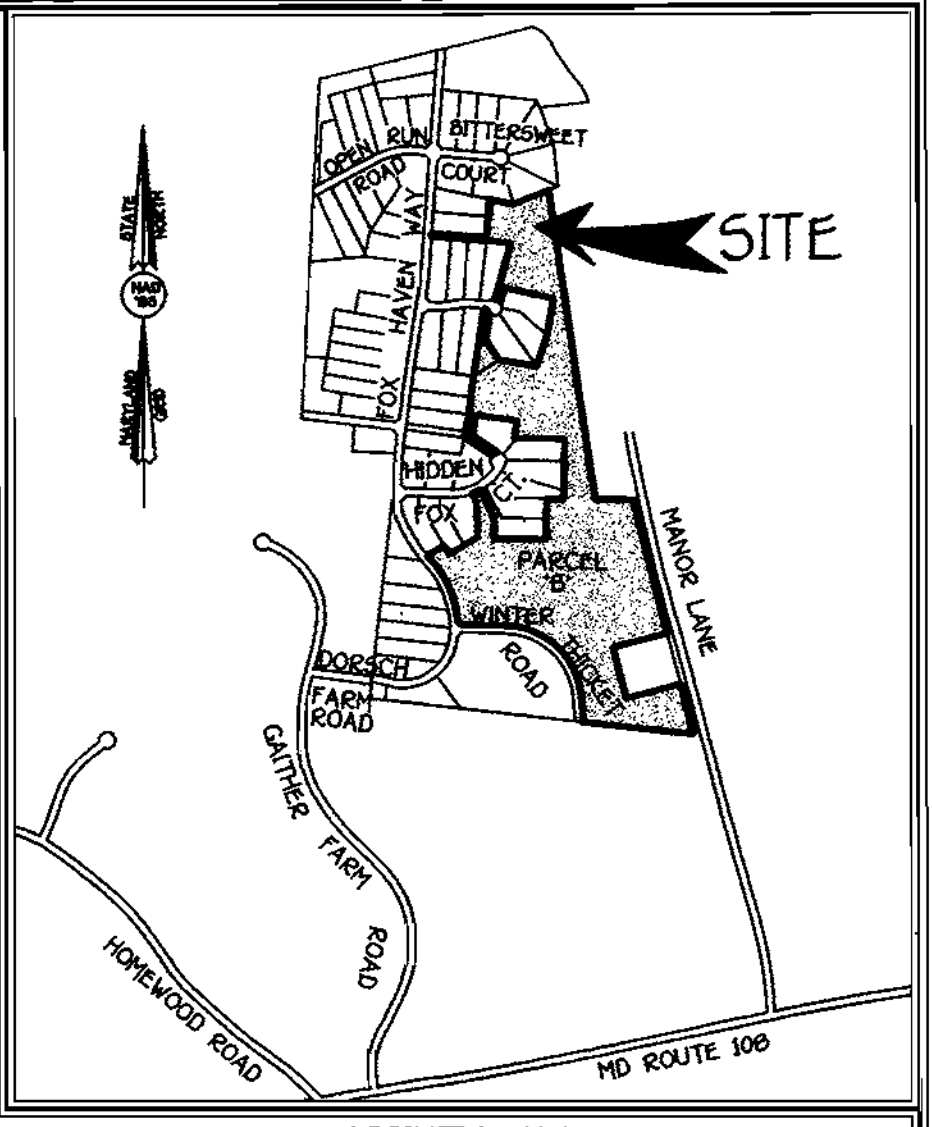
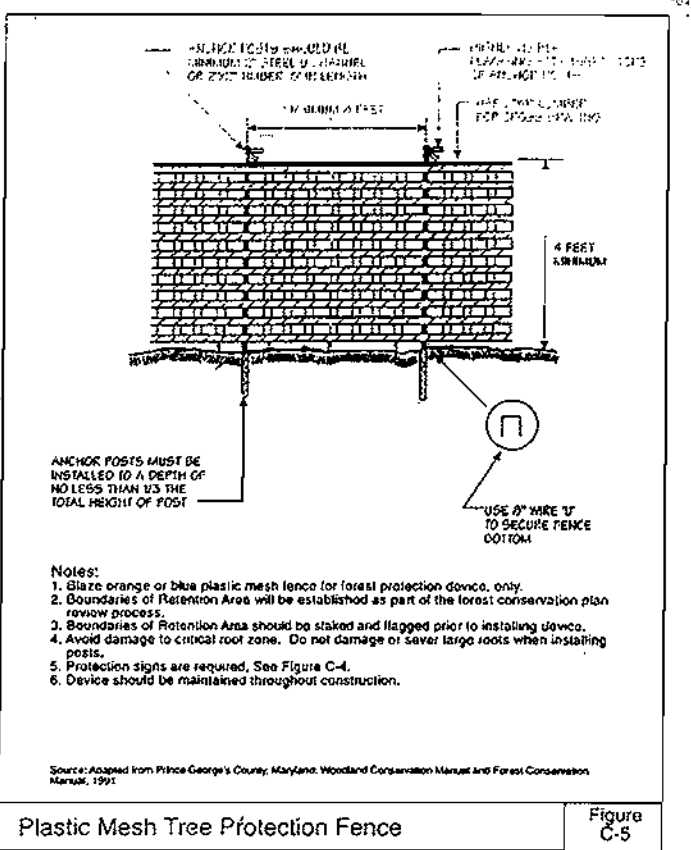
Planting Notes:

- Mulch/rose control must be performed as part of this planting plan.
- Bareroot plant material may be used to offset the cost of mulch/rose removal and maintenance. If bareroot material is used it must be planted in March-April and an anti-desiccant gel should be utilized to protect root systems. Container grown stock is recommended.
- Plants should be flagged to aid on location during maintenance. Plantings should also be planted in grid pattern to facilitate maintenance and removal of invasive and exotic species.

Mulch/rose Control Note

Mulch/rose is prevalent in certain areas to be afforested. Prior to planting all mulch/rose shall be removed. Removal of the rose may be performed with mowing and herbicide treatments. Physical removal of all top growth following by a periodic herbicide treatment of stump sprouts is recommended. Native tree and shrub species occurring within the rose thickets should be retained wherever possible. Herbicide treatments shall occur on 2 month intervals during the first growing season and once each in the spring and fall for subsequent years. Herbicide used shall be made specifically to address woody plant material and shall cover or naturally occurring native tree/shrub seedlings. It is recommended that initiation of rose removal begin at least six months prior to planting.

NOTE: FOR EASEMENT BEING DISTANCES SEE RECORDED PLAT 14903 - 14907 (F02-11)



Planting/Soil Specifications

- Planting of bareroot stock shall take place between March 15th and April 15th. Container stock may be planted September 1 - October 31.
- A twelve (12) inch layer of topsoil shall be spread over all afforestation areas to be planted by the planting contractor. Disturbed areas shall be seeded and mulched as per general construction plan for project. Planting areas not impacted by the grading shall have no additional topsoil needed.
- All bareroot planting stock shall have their root systems dipped into an endosulfan gel prior to planting.
- Plants shall be installed so that the top of root mass is level with the top of existing grade. Backfill in the planting pit shall consist of 7 parts existing soil to 1 part fine sand or equivalent.
- Fertilizer shall consist of AgriLum 22-2-2, or equivalent, applied as per manufacturer's specifications.
- A two (2) inch layer of landscape mulch shall be placed over the root area of all plantings.
- Plant material shall be transported to the site in a tarp or covered truck. Plants shall be kept moist prior to planting.
- All nonorganic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

- Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the project.
- Upon completion of the planting, signage shall be installed as per the Forest Restoration Area Project Director's plan on Sheet 2 of the Forest Conservation Plan.
- Plantings shall be maintained and guaranteed in accordance with the Maintenance and Guarantee requirements for project.

Maintenance of Plantings

- Maintenance of plantings shall last for a period of 24 months.
- All plant material shall be watered twice a week during the 1st growing season. Watering may be more or less frequent depending on weather conditions. During second growing season, once a month watering shall be required.
- Invasive species and noxious weeds will be removed from reforestation areas. Old field plant material will be removed.
- Plants will be maintained a minimum two times during the growing season for serious plant pests and diseases. Serious problems will be treated with the appropriate agent.
- Dead branches will be pruned from plantings.

Guarantee Requirements

- After one growing season, plant material shall be maintained at 90% survival threshold. A 75 percent survival rate of container plantings will be required at the end of the 24 month maintenance period. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season.
- The contractor will not be liable for plant loss due to theft or vandalism.

Signs for Reforestation

- The developer shall post a sturdy (wood, metal or concrete) sign that reforestation plantings are completed. Upon acceptance of the plantings by the County, the board shall be retained.

Forest Conservation Easement

Unauthorized disturbances of vegetation is prohibited. Violators are subject to fines as imposed by the Howard County Forest Conservation Act of 1992.

Trees for Your Future

▼ DENOTES SIGN LOCATION

ENGINEER'S CERTIFICATE

I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer (print name below signature) _____ Date _____

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan for sediment and erosion control and that all 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.

Signature of Developer (print name below signature) _____ Date _____

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A. - Natural Resources Conservation Service _____ Date _____

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD _____ Date _____

DEVELOPER/OWNER

ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
CLEMWOOD, MARYLAND 21736
410 469-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning _____ Date 10/23/01

Chief, Division of Land Development _____ Date 11/19/01

Chief, Development Engineering Division MAJ _____ Date 9/2/01

SUBDIVISION ST. ANDREWS EPISCOPAL CHURCH	SECTION/AREA	LOT NO.
WOODSIDE ESTATES	N/A	1
PLAT NO. 978	BLOCK NO.	ZONE
DEED REF. 4/28/93	15	RC-02
WATER CODE	SEWER CODE	CENSUS TR.
PRIVATE	PRIVATE	800

OFF-SITE FOREST CONSERVATION PLAN

ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1

TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' DATE: MAY 23, 2001
SHEET 6 OF 7

SOIL	NAME	CLASS
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B

NOTES:
 * Hydric soils and/or contains hydric inclusions
 ** May contain hydric inclusions
 † Generally only within 100-year floodplain areas

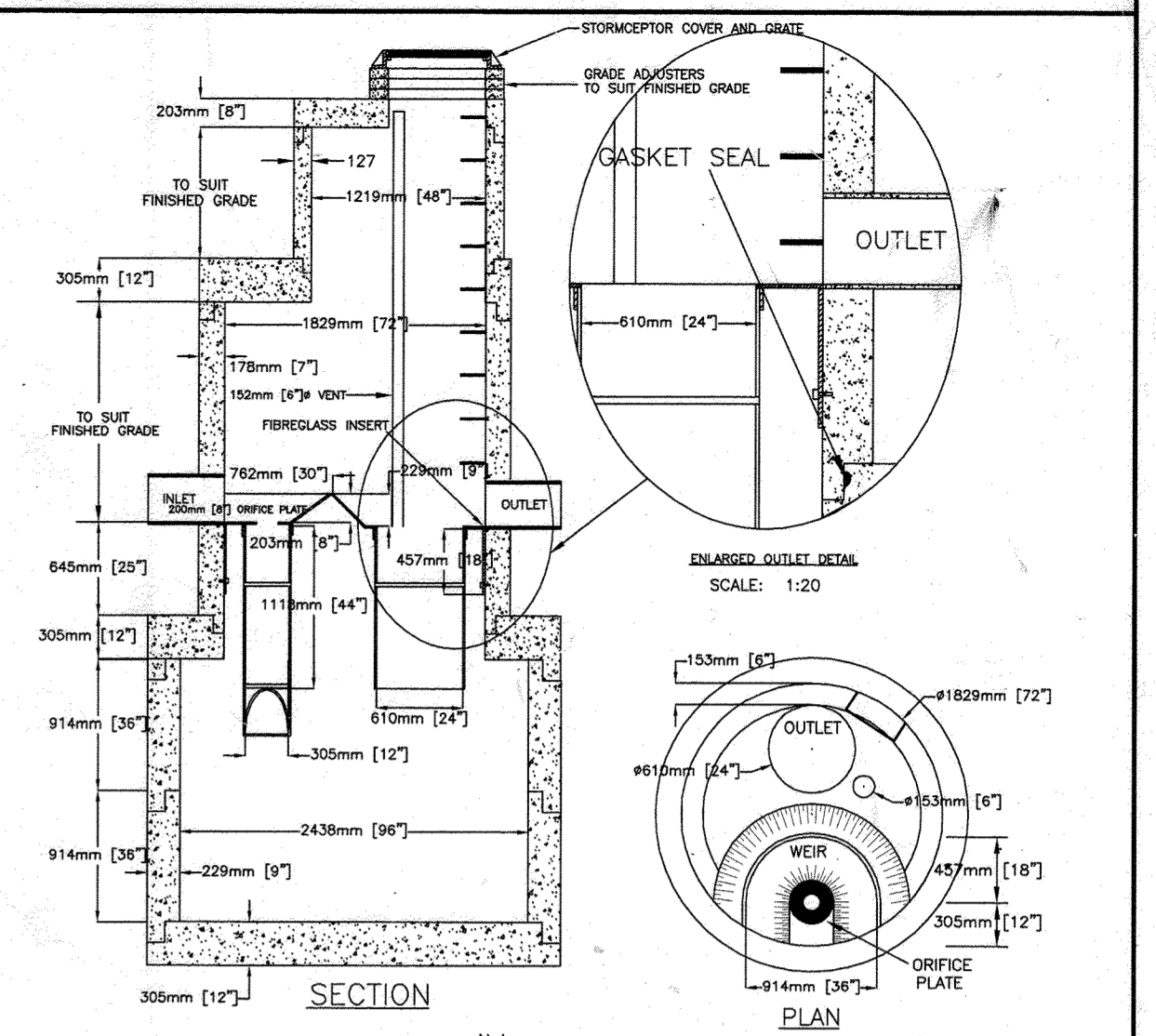
MAINTENANCE NOTES:
 WATER QUALITY STRUCTURE WASTE
 1. Water quality structures will require periodic cleaning. Owners of these facilities will have to clean them as needed.
 2. Maintenance of these facilities will consist of cleaning out the stormceptor and disposal of the waste and repair of the facility as needed. Periodic inspections of these facilities will be made by the owner.
 3. The removal of the mud and solid matter shall be as follows:
 A. All liquid material in the stormceptor shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or taken to an approved sewage treatment plant for discharge.
 B. The solid material shall be identified in an approved sanitary district discharge manhole or taken to an approved sanitary district discharge manhole or taken to an approved sewage treatment plant for discharge.
 4. The inlet pipe and structural parts shall be repaired as needed.
 5. Stormceptor inlet and outlet assembly shall be periodically inspected. Blockages shall be removed and disposed of as required in SB above.

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY DEVICE
 1. Stormceptor water quality structures will require periodic inspection and cleaning to maintain operation and function. Owners will have the Stormceptor unit inspected yearly or as required by Howard County, utilizing the Stormceptor Inspection/Monitoring Form. Inspections can be done by using a clear Plexiglas tube ("cage judge") to extract a water column sample. When sediment depth exceeds the specified limit (see Table 1 of Technical Manual) then cleaning of the unit is required.
 2. Stormceptor water quality structures must be checked and cleaned immediately after petroleum spills, contact with hazardous materials, or other petroleum spills.
 3. Maintenance of Stormceptor units should be done by a person trained in the proper use of the equipment, capable of handling hazardous and other materials in units. The proper cleaning and disposal of the removed material and fluid must be followed.
 4. Inlet and outlet pipes must be checked for any obstructions and if any obstructions are found they must be removed. Structural parts of the Stormceptor will be repaired as needed.
 5. Owner shall retain and make Stormceptor Inspection/Monitoring Forms available to Howard County officials upon their request.

DRAINAGE AREA DATA

AREA = 0.49 AC ±	A	C = 0.37	% IMP. = 42.9%
T/C = 10.00 MIN. (MIN.)			
AREA = 0.30 AC ±	B	C = 0.66	% IMP. = 68%
T/C = 11.12 MIN.			
AREA = 2.86 AC ±	C	C = 0.30	% IMP. = 18%
T/C = 15.00 MIN. (MAX.)			
AREA = 3.67 AC ±	D	C = 0.28	% IMP. = 20%
T/C = 15.00 MIN. (MAX.)			
AREA = 0.88 AC ±	E	RCN-47	% IMP. = 19.3%
T/C = 17.80 MIN			
AREA = 0.37 AC ±	F	C = 0.65	% IMP. = 50%

STORMWATER MANAGEMENT POND
 HAZARD CLASS 'A'
 (SEE DETAILS, SHEETS 3 & 4)



STORMCEPTOR IS PROTECTED BY:
 1. Dimensions may vary regionally due to different manufacturer's.
 2. Access way is offset to allow access to the fiberglass bypass slab and to allow inspection and maintenance from the surface.
 3. Pipe installation by grouting or flexible boots.
 4. Flexible boots may not be suitable for all installations. Please contact your sales representative for further information.
 5. 610 mm [24"] outlet to be used for clearout access to the treatment chamber.
 6. Safety grates for the 610 mm [24"] outlet are available.

DATE: 10/28/98
 SCALE: 1:40
 STC 2400 PRECAST CONCRETE STORMCEPTOR
 FIBREGLASS DISC DESIGN - 2400 U.S. GALLON CAPACITY

CONCRETE STORMCEPTOR ORDER REQUEST FORM

CONTRACTOR INFORMATION
 NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____ CONTACT _____ PHONE _____ FAX _____

OWNER INFORMATION
 NAME _____ PHONE _____ FAX _____

STORMCEPTOR MODEL
 900 3600
 1200 4800
 1800 6000
 2400 7200
 IMPERV. D. AREA = _____ AC.

INSERT SIZE
 DISC
 22"
 32"
 44"
 CUSTOM _____

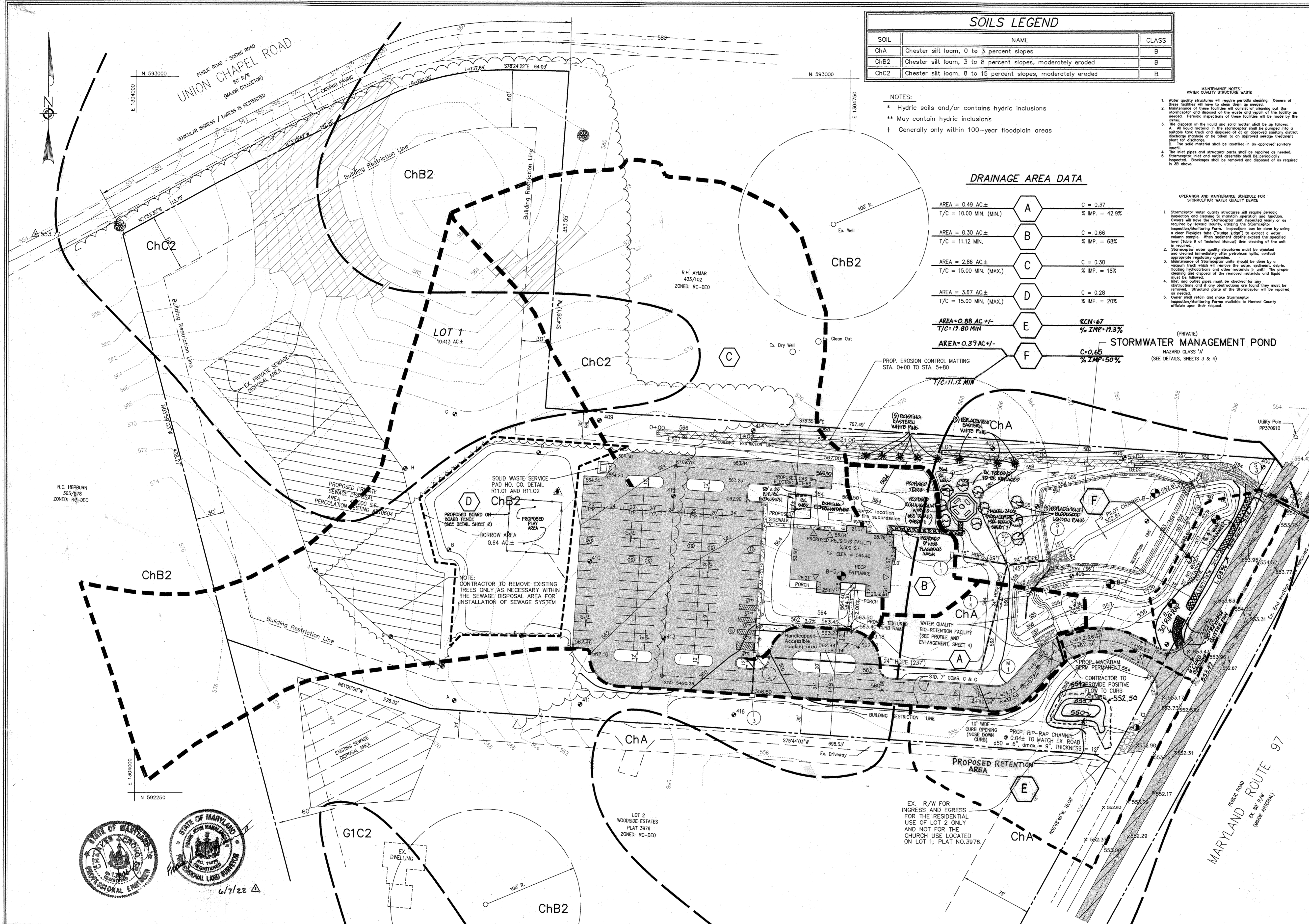
MANHOLE NUMBER
 FINISH TOP ELEVATION (FT) _____
 TOP SLAB ELEVATION (FT) _____
 INLET PIPE INVERT (FT) _____
 OUTLET PIPE INVERT (FT) _____
 PIPE TYPE: _____
 PIPE INSIDE DIAM. (IN) [10] 15" AND 24"
 PIPE OUTSIDE DIAM. (IN) [00] 19.6" AND 23.6"

OFFICE USE ONLY
 ORDER # _____
 DATE _____
 INTERNAL SCALE _____

PROJECT NAME: ST. ANDREWS EPISCOPAL CHURCH
 APPROXIMATE TIME FRAME UNTIL REQUIRED DELIVERY (WEEKS): _____
 DELIVERY ADDRESS: STREET 2892 MARYLAND ROUTE 97 (ROXBURY MILLS ROAD)
 CITY GLENWOOD STATE MARYLAND ZIP CODE 21738
 DESIGNER COMPANY FISHER, COLLINS & CARTER, INC.
 DESIGNER CONTACT RICKY ISAACS PHONE (410) 461-2855 FAX (410) 750-3784
 PLEASE FAX THIS ORDER TO HYDRO CONDUIT C/O CAMTEK (412) 327-9556
 ATTENTION: ANDREW VIROSTEK PHONE: (412) 327-3400
 FOR TECHNICAL ASSISTANCE PLEASE CALL STORMCEPTOR CORPORATION AT
 (301) 762-8361 OR TOLL FREE AT 1 (800) 762-4703
 ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

SOILS MAP AND DRAINAGE AREA MAP

ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1
 TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 7 OF 8



DATE	REVISION
7/3/02	REVISE PAVING LIMIT AND GRADING TO I-1
10/25/02	ADD PROPOSED RETENTION AREA & CURB OPENING W/CHANNEL TO ALLEVIATE STANDING WATER ISSUE. ADD ADDITIONAL (2) DRAINAGE AREAS FOR NEW FACILITIES TO ALLEVIATE STANDING WATER ISSUE. REVISE HANDICAP ACCESS FROM PARKING AREA.
9/2/02	ADD 9" WIDE FLAGSTONE WALK, CONCRETE WALK, ASPHALT DRIVE AND DRIVEWAY, ASPHALT DRIVE AND DRIVEWAY, ASPHALT DRIVE AND DRIVEWAY, ASPHALT DRIVE AND DRIVEWAY, ASPHALT DRIVE AND DRIVEWAY.
4/7/02	ADDED PROPOSED BOARD ON BOARD FENCE

ENGINEER'S CERTIFICATE
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer (Print name below signature) *Cliff* Date 8/9/01

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Signature of Developer (Print name below signature) *Jim May* Date 8/19/01

Reviewed for HOWARD SCD and meets Technical Requirements.
 U.S.D.A.-Natural Resources Conservation Service
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: _____ Date: _____

OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 52
 GLENWOOD, MARYLAND 21738
 (410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: _____ Date: 11/14/01
 Chief, Department of Planning and Zoning
 Signature: _____ Date: 9/17/01
 Chief, Development Engineering Division
 Signature: _____ Date: 10/23/01
 Director, Department of Planning and Zoning

PROJECT	SECTION/AREA	LOT NO.
ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	N/A	1

PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

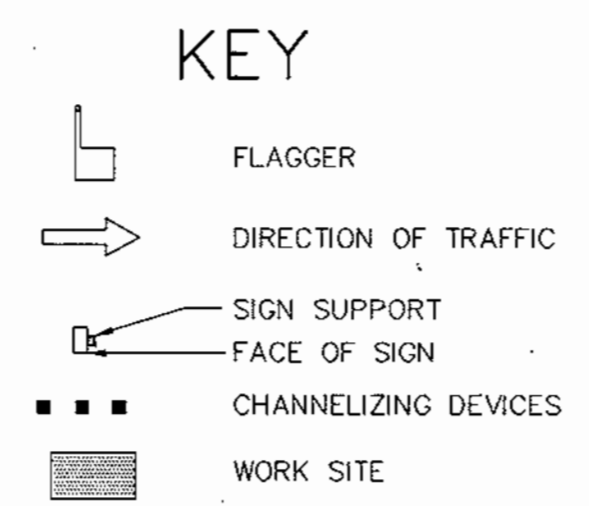
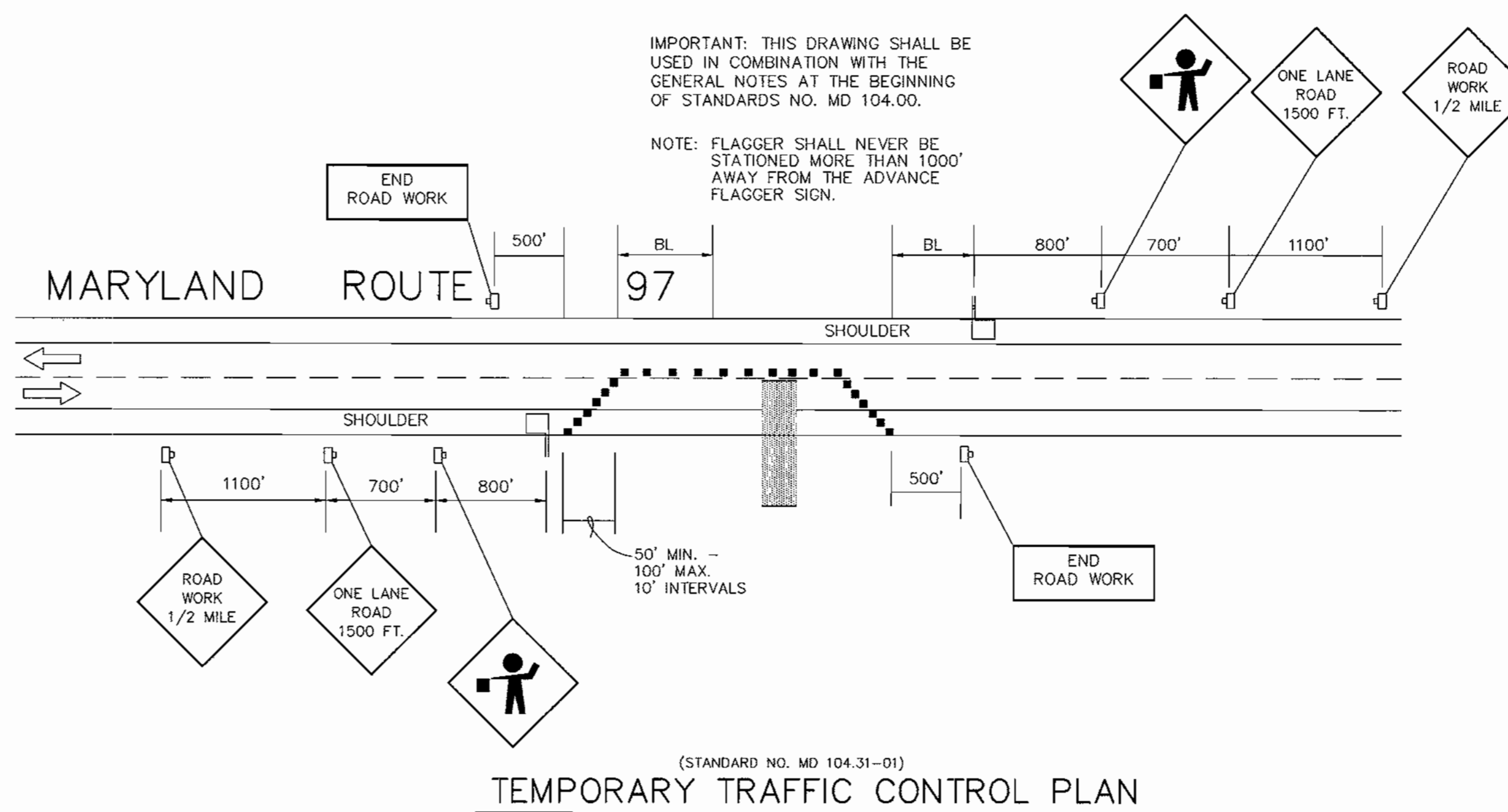
WATER CODE PRIVATE SEWER CODE PRIVATE



MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

GENERAL

1. THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISION IS TO SET FOR THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE TO TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE CONTRACTOR AND/OR PERMITTEE.
2. PROPERTY TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY AND THAT OF HIGHWAY WORKERS HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
4. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1982; INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH).
5. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FOR IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE(3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE TO HAVE BEEN CHECKED FOR APPROVED USAGE.
7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC, AND ANY ADDITIONAL SIGNING HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED.
8. THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS.
9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 814 OF THE SPECIFICATIONS. FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE.
10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE.
11. THROUGHOUT THE PERIOD(S) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TCP. IN LIEU OF THE TCP PREPARED FOR THIS PROJECT, AND/OR INDIVIDUAL TYPICAL TRAFFIC CONTROL STANDARDS, THE CONTRACTOR AND/OR PERMITTEE HAS THE OPTION OF PREPARING AND SUBMITTING A TCP, WHOLLY OR IN PART, OF HIS OWN DESIGN, FOLLOWING GUIDELINES SET FORTH IN THE MUTCD AND PRESCRIBED BY THE ADMINISTRATION. A TCP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE SHALL NOT BE IMPLEMENTED UNTIL ADVANCE WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TCP'S MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN SITUATIONS WHERE TCP'S JOINTLY IMPLEMENTED, CARE SHALL BE EXERCISED TO PRESENT CORRECT AND NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE NOTED.
13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTED. NO TRAVEL LANE(S) OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 GENERAL OFFICE: 10772 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855

REVISION	DATE	DESCRIPTION

ENGINEER'S CERTIFICATE
 I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer (print name below signature) Jim May Date 8/9/01

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Signature of Developer (print name below signature) Jim May Date 8/9/01

Reviewed for HOWARD SCD and meets Technical Requirements.
 U.S.D.A.-Natural Resources Conservation Service Date
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Howard SCD Date
DEVELOPER/OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 52
 GLENWOOD, MARYLAND 21738
 (410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

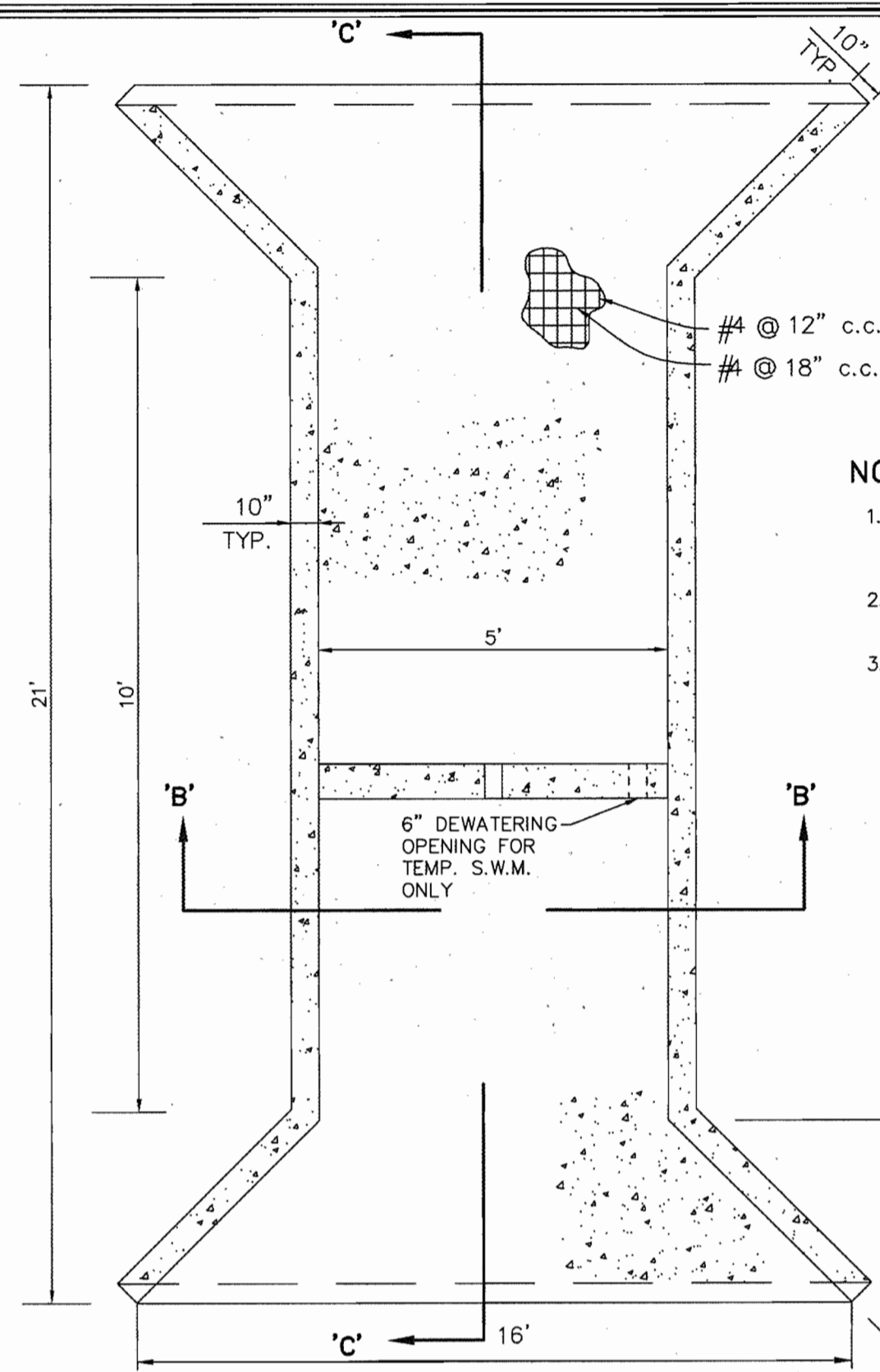
Paul R. ... Director, Department of Planning and Zoning Date 10/27/01
... Chief, Planning and Land Development Date 10/19/01
... Chief, Development Engineering Division Date 9/17/01

SUBDIVISION	ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	SECTION/AREA	N/A	LOT NO.	1
PLAT NO.	14893	BLOCK NO.	16	ZONE	RC-DEO
TAX/ZONE	14	ELEC. DIST.	4TH	CENSUS TR.	6040
WATER CODE	PRIVATE	SEWER CODE	PRIVATE		

TRAFFIC CONTROL PLAN

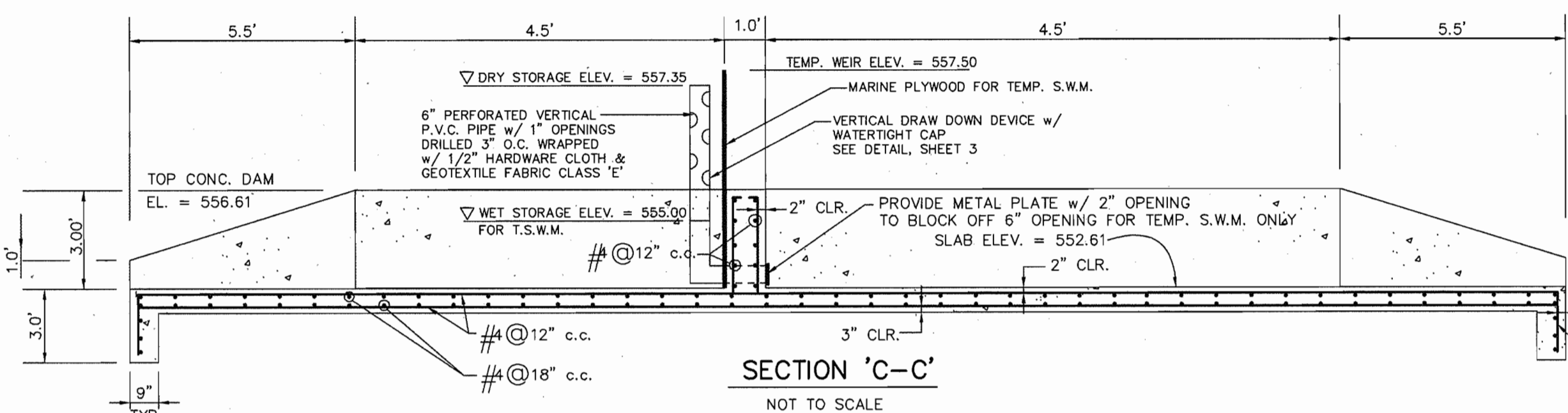
ST. ANDREWS EPISCOPAL CHURCH
 WOODSIDE ESTATES
 LOT 1

TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 8 OF 8

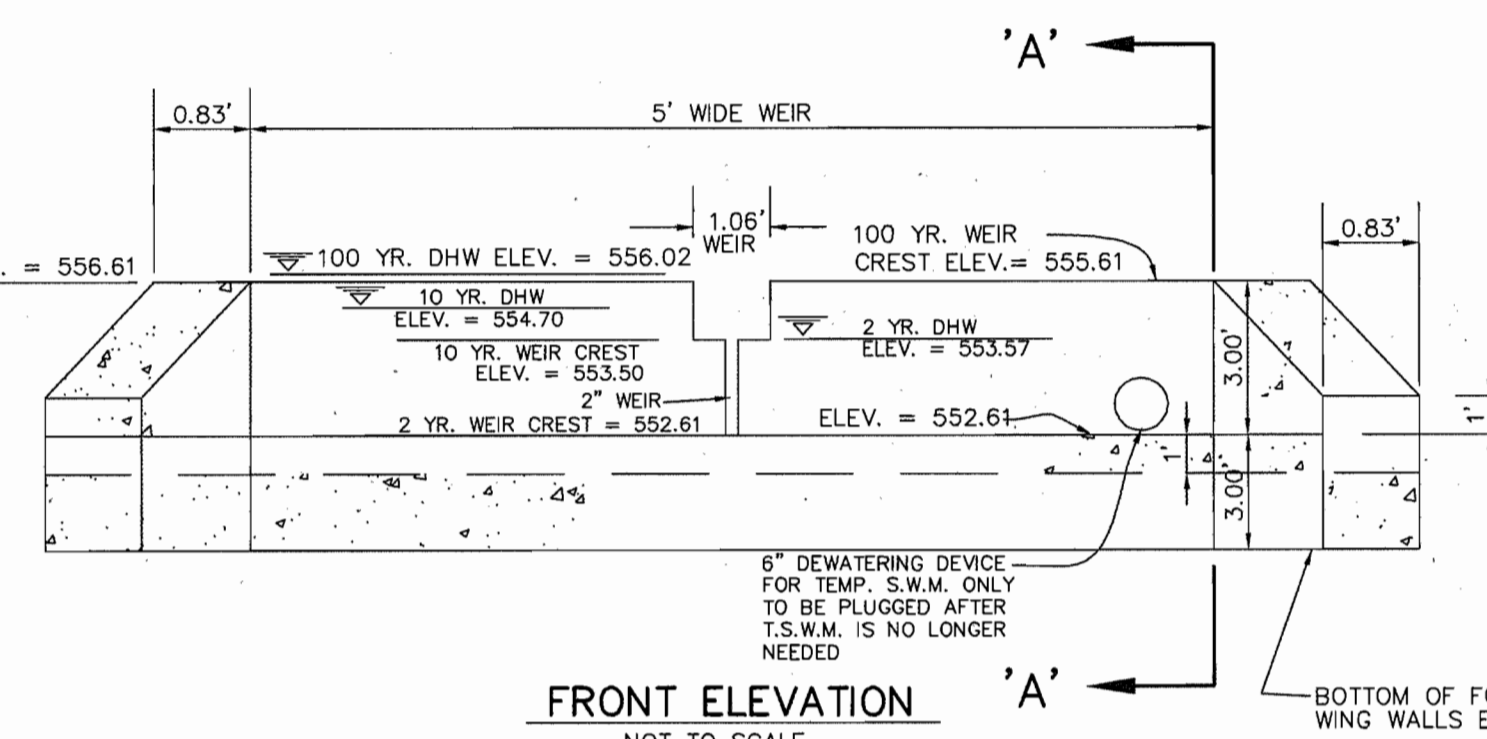


- NOTES:**
- ALL EXPOSED EDGES TO HAVE 3/4" x 3/4" CHAMFER OR AS DIRECTED.
 - CONCRETE SHALL BE SHA MIX NO. 3 (F_c = 3500 P@ 28 DAYS)
 - REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60.

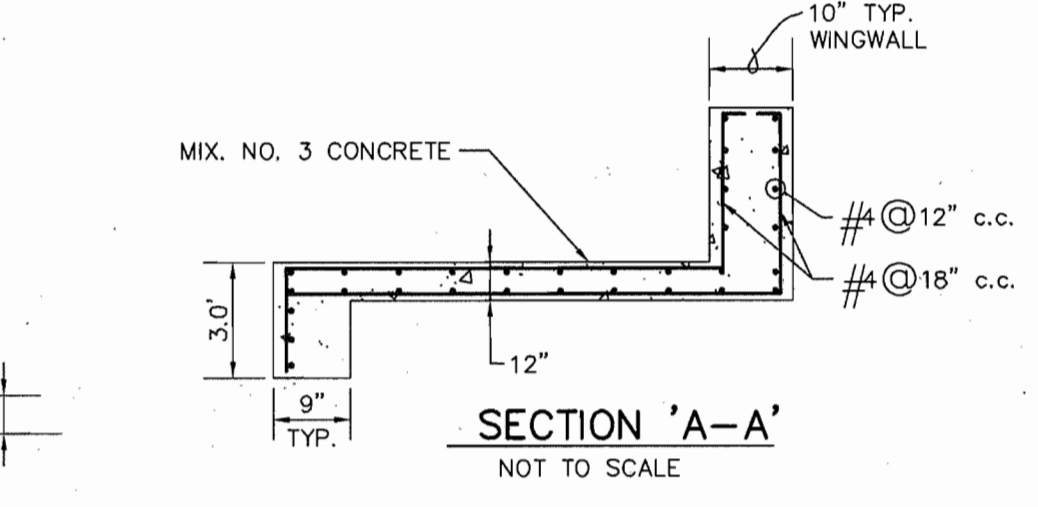
CONCRETE RELEASE DETAILS FOR PRIVATE S.W.M. FACILITY



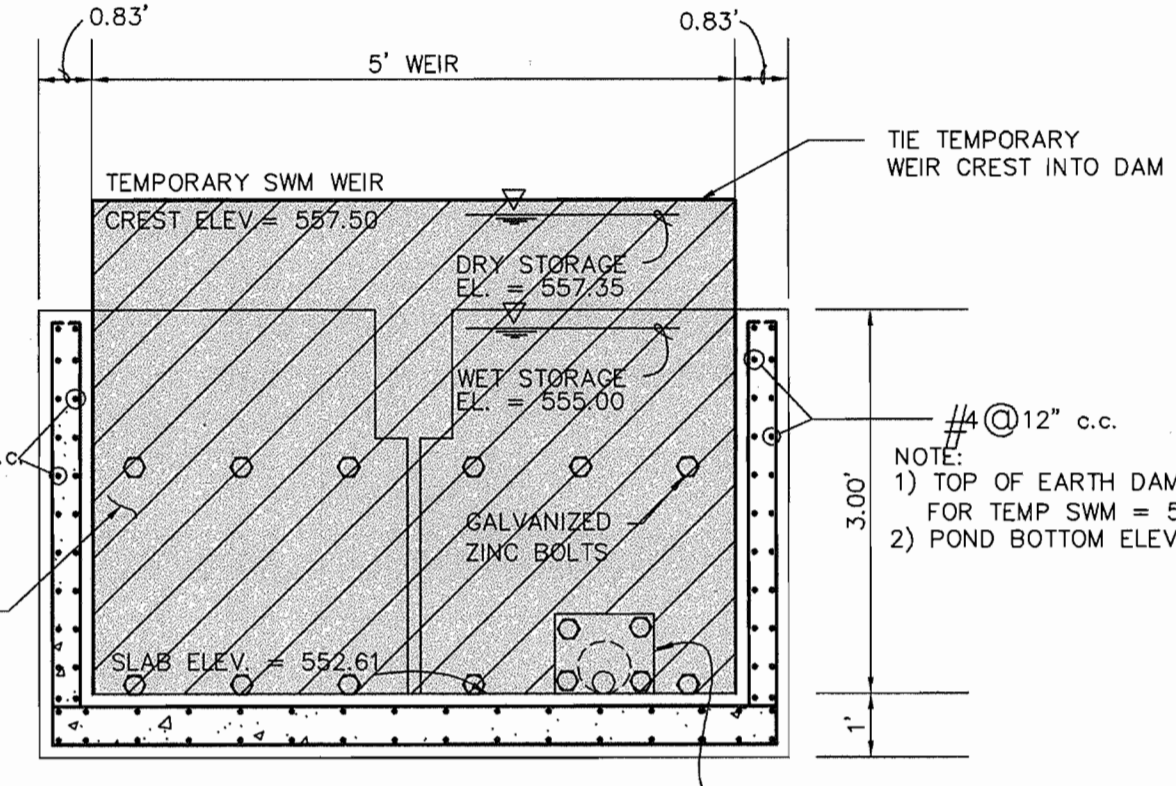
SECTION 'C-C'
NOT TO SCALE



FRONT ELEVATION 'A-A'
NOT TO SCALE

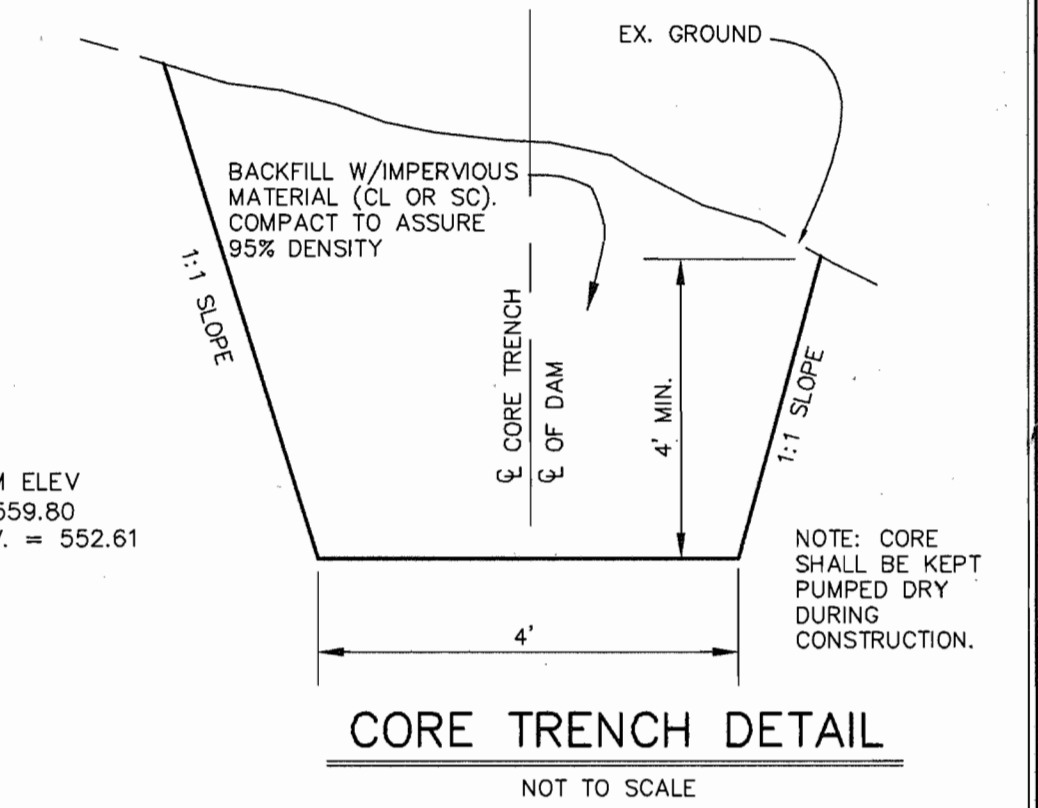


SECTION 'A-A'
NOT TO SCALE

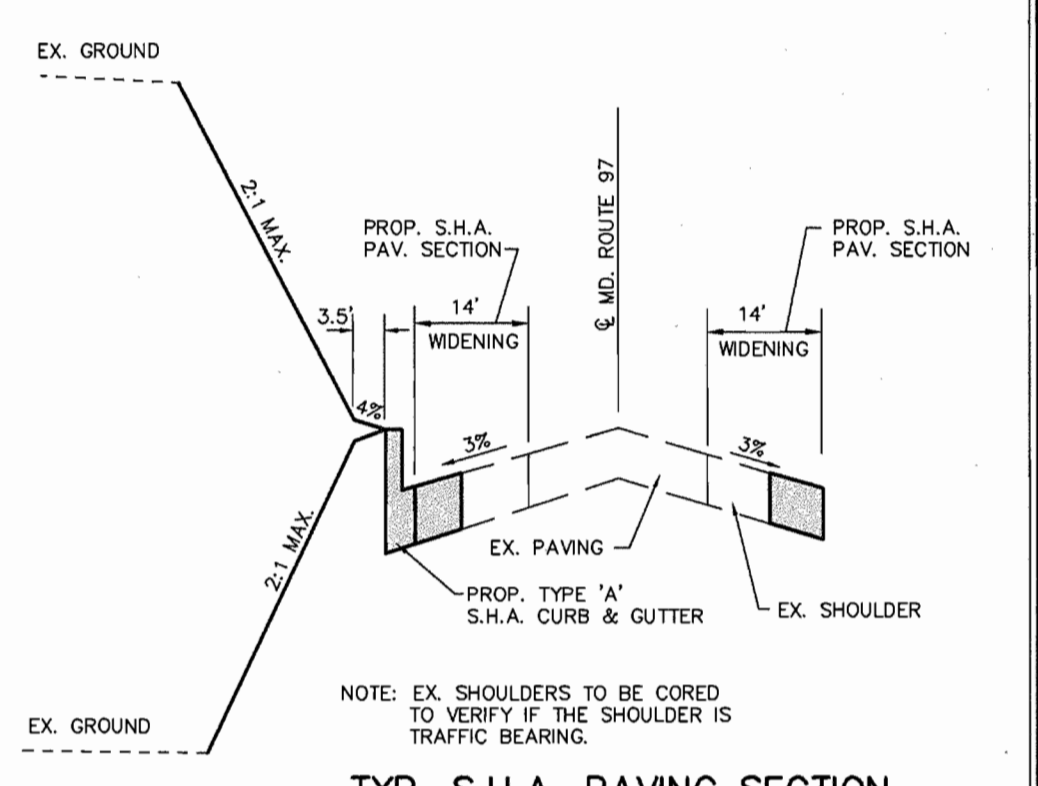


TEMPORARY S.W.M. WEIR DETAIL

SCALE: 1" = 3"
DENOTES PROPOSED MARINE PLYWOOD TO BE BOLTED INTO CONCRETE WALL FOR TEMPORARY STORMWATER MANAGEMENT



CORE TRENCH DETAIL
NOT TO SCALE

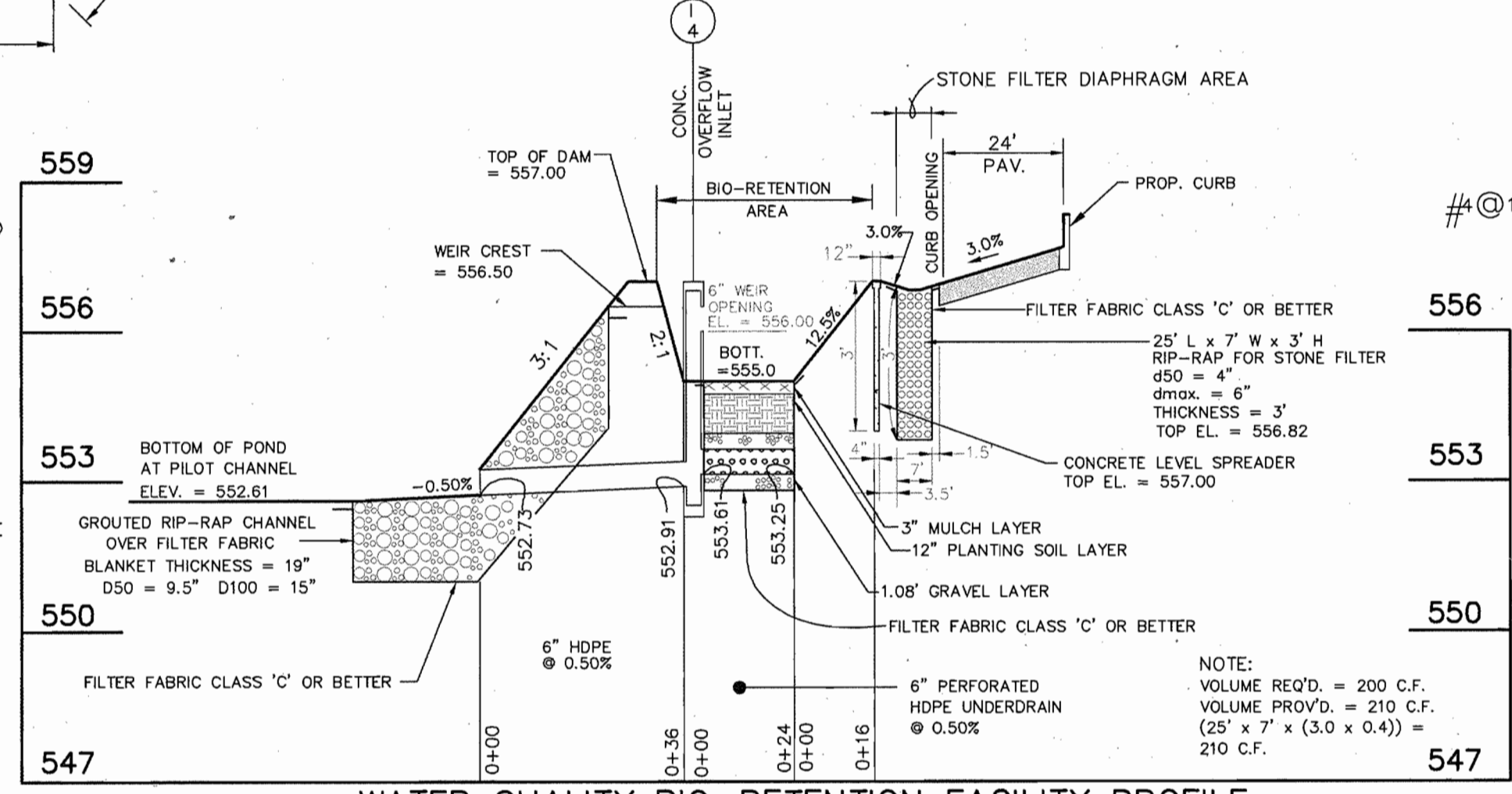


TYP. S.H.A. PAVING SECTION
NO SCALE

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.

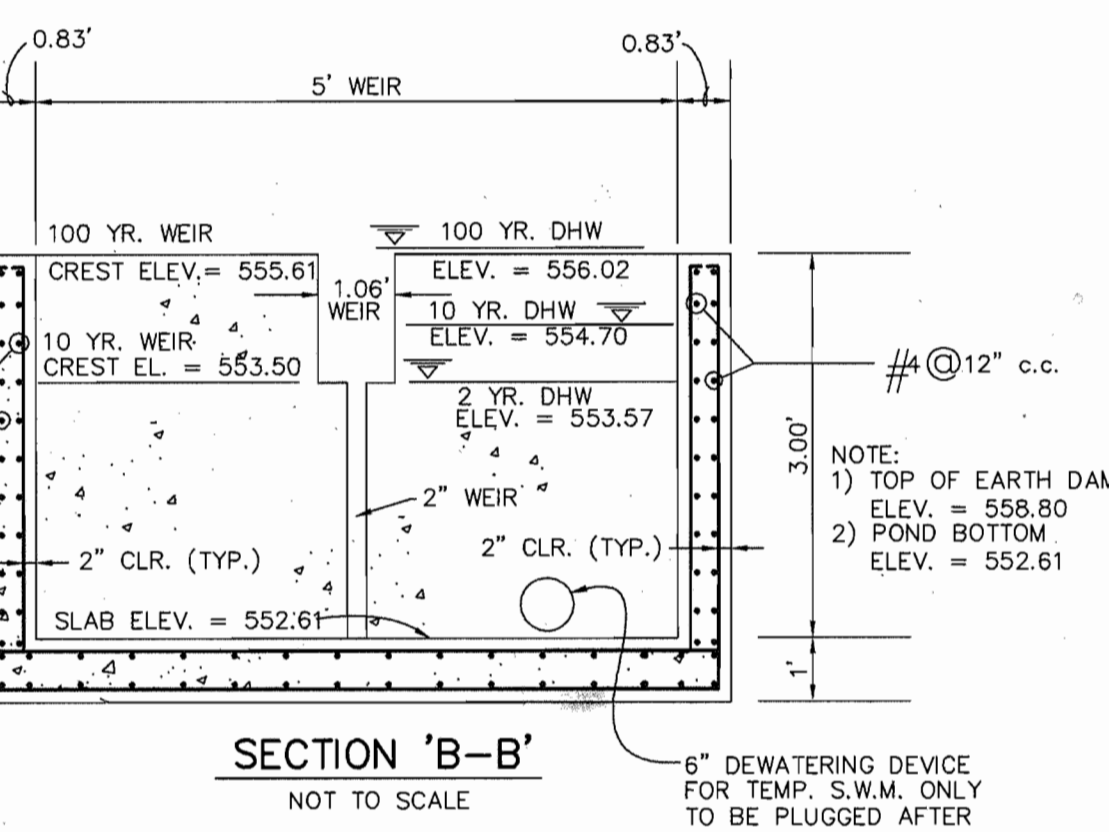
SIGNATURE _____ PE NO. _____ DATE _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE 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 OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

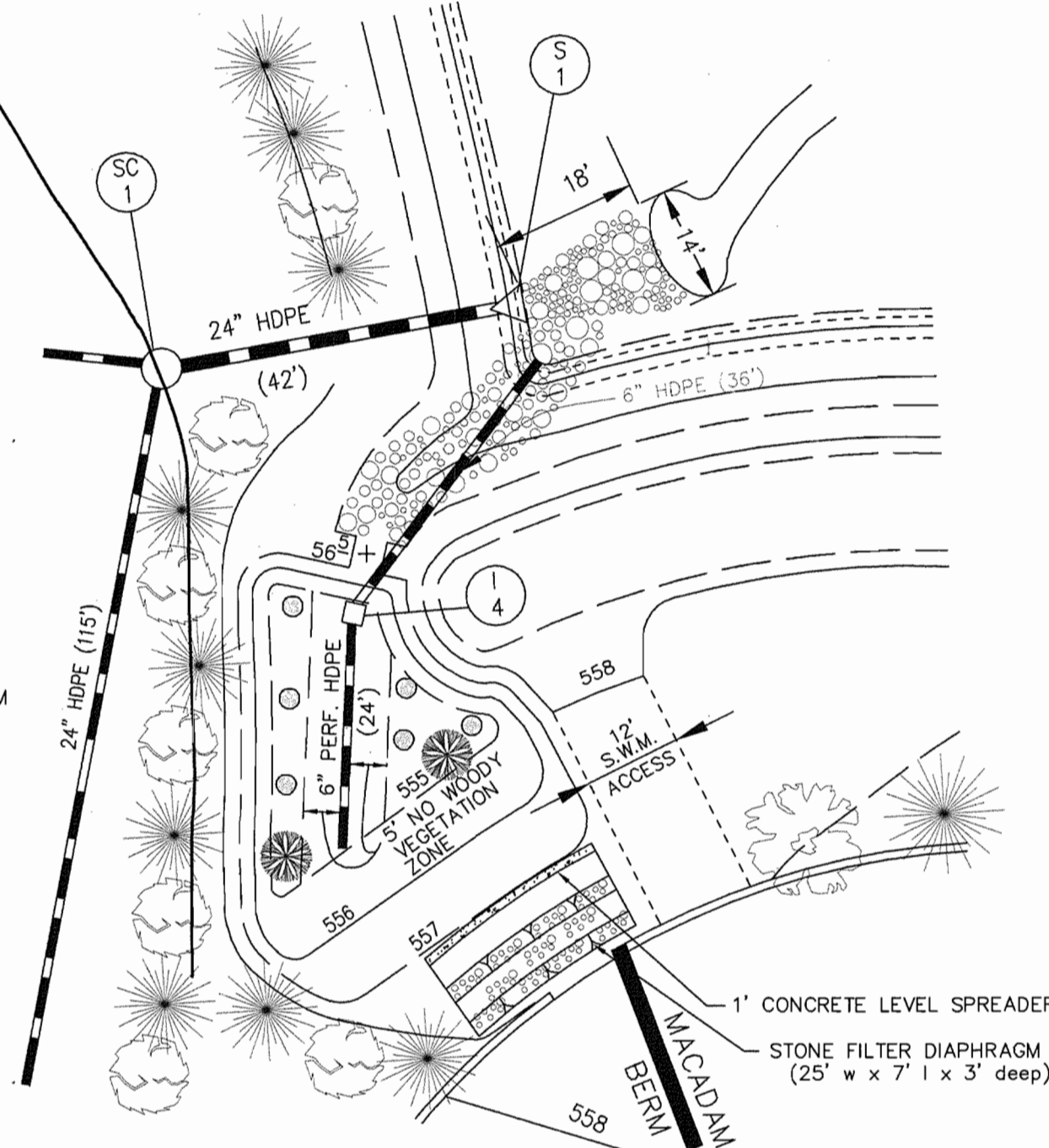


WATER QUALITY BIO-RETENTION FACILITY PROFILE

SCALE: HORIZ. : 1" = 30'
VERT. : 1" = 3'

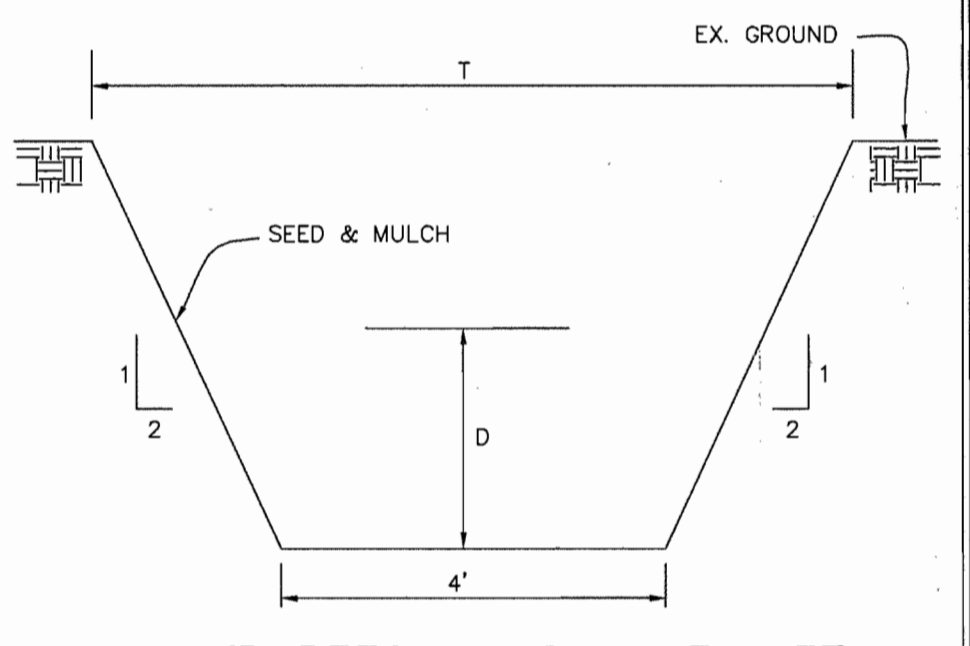


SECTION 'B-B'
NOT TO SCALE

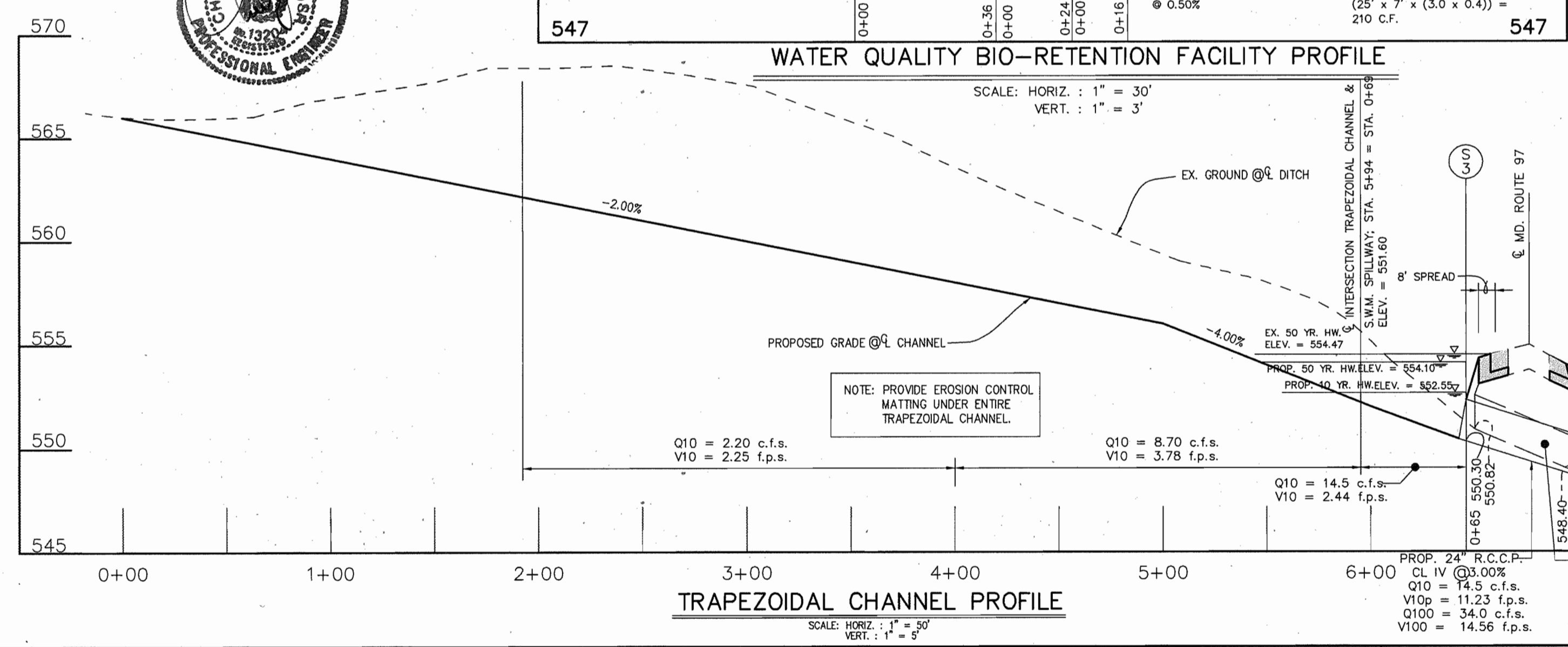


BIO-RETENTION AREA ENLARGEMENT

SCALE: 1" = 20'

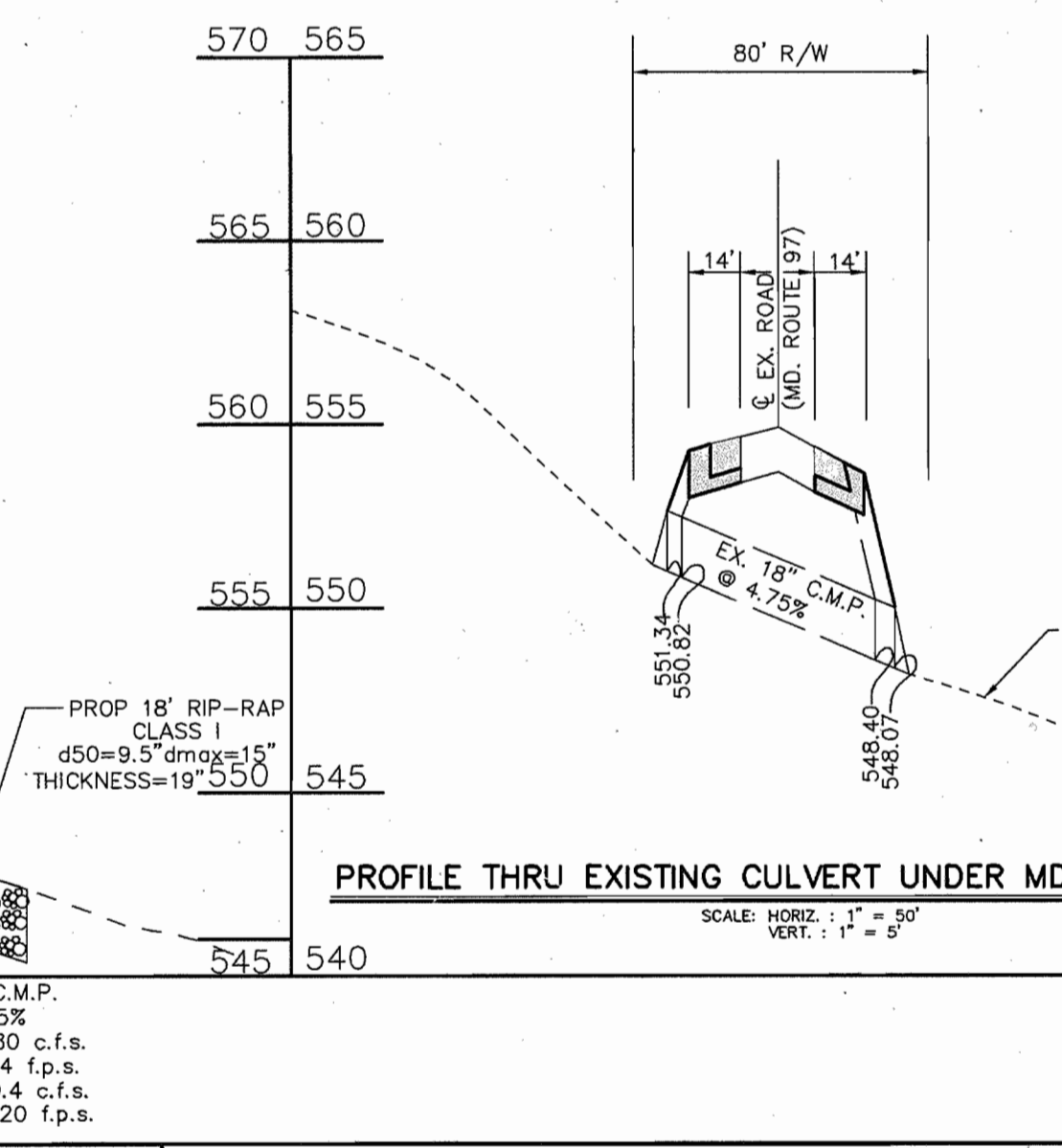


TRAPEZOIDAL CHANNEL DETAIL
NO SCALE



TRAPEZOIDAL CHANNEL PROFILE

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



PROFILE THRU EXISTING CULVERT UNDER MD. ROUTE 97

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

QTY.	KEY	DESCRIPTION	NAME
2	(Symbol)	TREE	RED MAPLE ACER RUBRUM
6	(Symbol)	SHRUB	BUTTONBUSH, COMMON CEPHALANTHUS OCCIDENTALIS

BIO-RETENTION PLANT LIST

PLANTING AREA = 60
HYDROLOGIC ZONE = ZONE 1

- OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREA (F-6)**
- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
 - SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
 - MULCH SHALL BE INSPECTED EARLY SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
 - SOIL EROSION TO BE INSPECTED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

- OPERATION AND MAINTENANCE SPECIFICATIONS**
- I HEREBY CERTIFY THAT I WILL OPERATE AND MAINTAIN THE COMPLETED POND IN ACCORDANCE WITH THE FOLLOWING:
- PERIODIC INSPECTIONS OF THE FACILITY WILL BE MADE TO IDENTIFY POTENTIAL PROBLEMS THAT MAY AFFECT ITS SAFETY. THESE INSPECTIONS WILL BE MADE AFTER PERIODS OF HEAVY RAINFALL AND AT LEAST TWICE ANNUALLY. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT INSPECTION. INSPECTION ITEMS TO BE LOOKED AT INCLUDE:
 - SPILLWAY AND OUTLET WORKS;
 - RIP-RAP;
 - VEGETATIVE COVER;
 - CRACKS IN THE FILL;
 - SLOPE FAILURES; AND
 - SEEPAGE AND OTHER SIGNS OF DISTRESS.
 - PROBLEMS IDENTIFIED DURING INSPECTIONS WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS WILL BE BROUGHT TO THE ATTENTION OF THE SOIL CONSERVATION DISTRICT AND THE DAM SAFETY DIVISION OF THE MARYLAND WATER RESOURCES ADMINISTRATION. AS A VERY MINIMUM, GRASSY VEGETATION WILL BE MAINTAINED IN A DENSE AND HEALTHY STATE AND WOODY VEGETATION WILL NOT BE PERMITTED TO GROW ON THE EMBANKMENT.
- OPERATION MAINTENANCE AND INSPECTION**
- INSPECTION OF POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS STANDARDS AND SPECIFICATIONS FOR PONDS (40-719). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2855

REVISION	DATE	DESCRIPTION

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer (Print name below signature) _____ Date 8/9/01

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.

Signature of Developer (Print name below signature) _____ Date 8/9/01

Reviewed for HOWARD SCD and meets Technical Requirements.

Signature of Reviewer _____ Date 9/4/01

Signature of Engineer _____ Date 8/9/01

Signature of Developer _____ Date 8/9/01

OWNER

ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
GLENWOOD, MARYLAND 21738
(410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature of Chief, Division of Planning and Zoning _____ Date 10/12/01

Signature of Chief, Department of Engineering Division _____ Date 9/7/01

Signature of Director, Department of Planning and Zoning _____ Date 10/23/01

PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

PROJECT: ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES" SECTION/AREA: N/A LOT NO.: 1

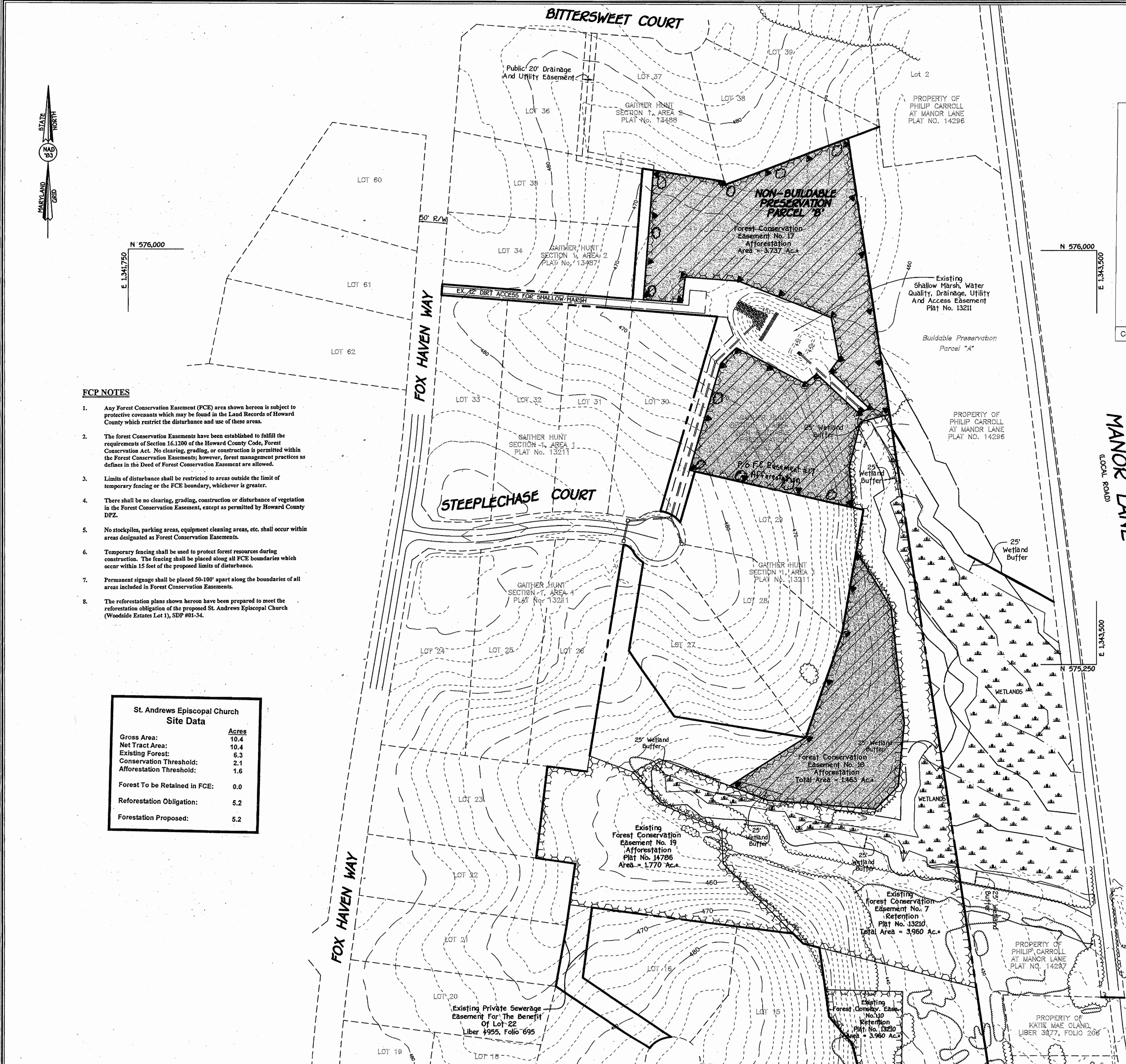
WATER CODE: PRIVATE SEWER CODE: PRIVATE

STORMWATER MANAGEMENT DETAIL SHEET

ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1

TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 4 OF 8

K:\Drawings 4\0315 Union Chapel\SDP\0315 OFF-SITE FOREST CONSERVATION PLAN.dwg



FCE NOTES

- Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- The forest Conservation Easements have been established to fulfill the requirements of Section 16.120 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.
- Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCE boundary, whichever is greater.
- There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County DPZ.
- No stockpiles, parking areas, equipment cleaning areas, etc. shall occur within areas designated as Forest Conservation Easements.
- Temporary fencing shall be used to protect forest resources during construction. The fencing shall be placed along all FCE boundaries which occur within 15 feet of the proposed limits of disturbance.
- Permanent signage shall be placed 50-100' apart along the boundaries of all areas included in Forest Conservation Easements.
- The reforestation plans shown hereon have been prepared to meet the reforestation obligations of the proposed St. Andrews Episcopal Church (Woodside Estates Lot 1), SDP #01-34.

St. Andrews Episcopal Church Site Data	
Gross Area:	10.4 Acres
Net Tract Area:	10.4
Existing Forest:	6.3
Conservation Threshold:	2.1
Afforestation Threshold:	1.6
Forest To be Retained in FCE:	0.0
Reforestation Obligation:	5.2
Forestation Proposed:	5.2

Planting Schedule

FCE Planting Area 17 (3.7 acres)

Qty.	Species	Size	Spacing
4	Acer rubrum - Red maple	1" cal.	**
7	Fraxinus americana - White ash	1" cal.	**
160	Acer rubrum - Red maple	2-3 whip	**
70	Cercis canadensis - Red bud	2-3 whip	**
250	Fraxinus americana - White ash	2-3 whip	**
250	Liriodendron tulipifera - Poplar	2-3 whip	**
90	Nyssa sylvatica - Black gum	2-3 whip	**
150	Prunus serotina - Black cherry	2-3 whip	**
150	Quercus rubra - Red oak	2-3 whip	**
80	Viburnum dentatum - Arrowwood	2-3' h.t.	**
80	Viburnum prunifolium - Blackhaw	2-3' h.t.	**

FCE Planting Area 2 (0.2 acres)

Qty.	Species	Size	Spacing
4	Acer rubrum - Red maple	1" cal.	**
60	Acer rubrum - Red maple	2-3 whip	**
30	Cercis canadensis - Red bud	2-3 whip	**
90	Fraxinus americana - White ash	2-3 whip	**
90	Liriodendron tulipifera - Poplar	2-3 whip	**
50	Nyssa sylvatica - Black gum	2-3 whip	**
65	Prunus serotina - Black cherry	2-3 whip	**
65	Quercus rubra - Red oak	2-3 whip	**
35	Viburnum dentatum - Arrowwood	2-3' h.t.	**
35	Viburnum prunifolium - Blackhaw	2-3' h.t.	**

Key:
 ** Plantings to be spaced on 11 foot centers, no shelters required - plantings should be installed in rows to facilitate future maintenance. Where possible rows should be made along contour.
 One caliper plant shall be planted in locations shown by .
 b.t. - branched transplant

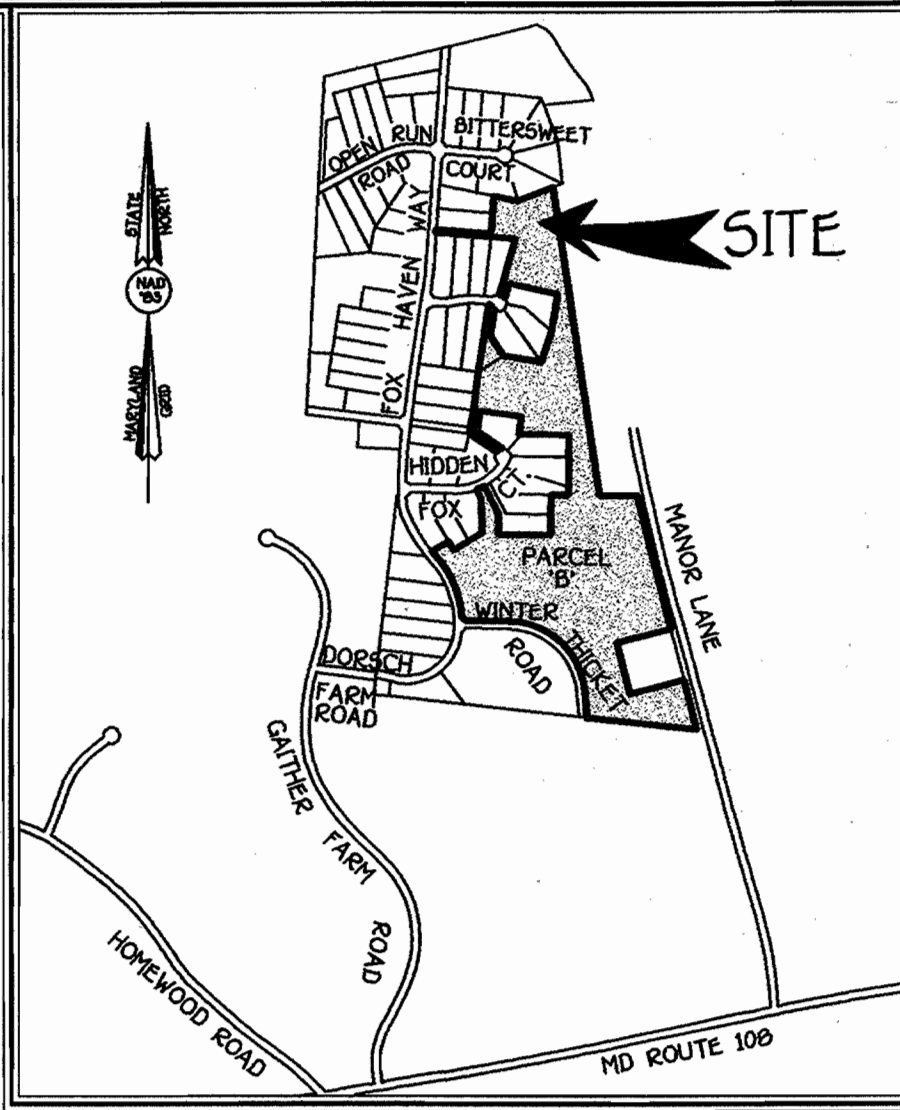
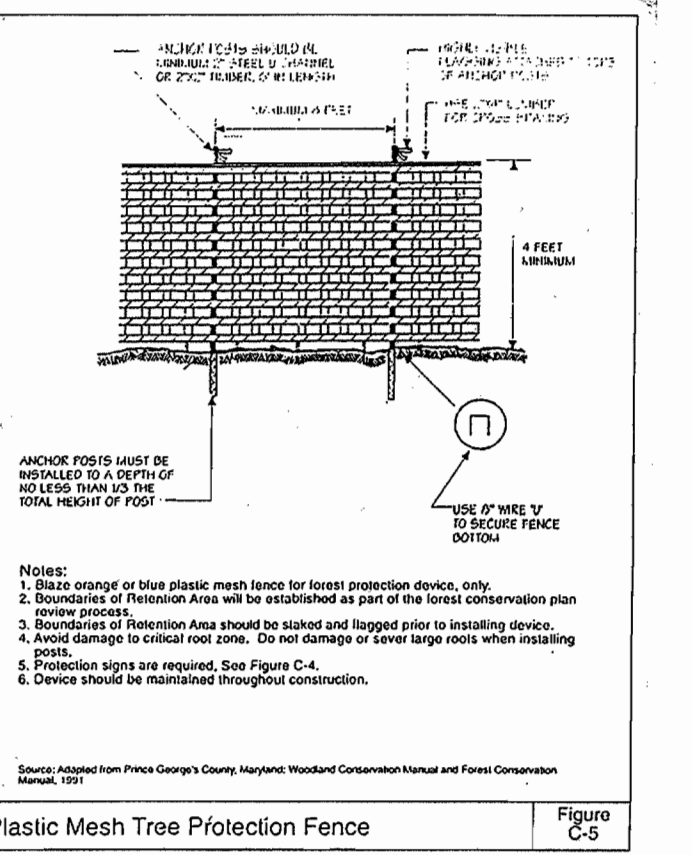
Planting Notes:

- Multiflora rose control must be performed as part of this planting plan.
- Bareroot plant material may be used to offset the cost of multiflora rose removal and maintenance. If bareroot material is used it must be planted in March-April and an anti-desiccant gel should be utilized to protect root systems. Container grown stock is recommended.
- Plants should be tagged to aid on location during maintenance. Plantings should also be planted in grid patterns to facilitate maintenance and removal of invasive and exotic species.

Multiflora Rose Control Note

Multiflora rose is prevalent in certain areas to be afforested. Prior to planting all multiflora rose shall be removed. Removal of the rose may be performed with mowing and herbicide treatments. Physical removal of all top growth following by a periodic herbicide treatment thickets should be retained wherever possible. Herbicide treatments shall occur on 2 month intervals during the first growing season and once each in the spring and fall for subsequent years. Herbicide used shall be made specifically to address woody plant material and shall be applied as per manufacturers specifications. Care should be taken not to spray planted trees or naturally occurring native tree/shrub seedlings. It is recommended that initiation of rose removal begin at least six months prior to planting.

NOTE: FOR EASEMENT BEARING DISTANCES SEE RECORDED PLAT 14903 - 14907 (F02-11)



Planting/Soil Specifications

- Planting of nursery stock shall take place between March 15th and April 30th. Container stock may be planted September 1st through 30th.
- A one (1) inch layer of topsoil shall be spread over all afforestation areas immediately by the grading to ensure a suitable planting area. Disturbed areas shall be seeded and established as per general conservation plan for project. Planting areas not impacted by site grading shall have no additional topsoil added.
- All bare-root planting stock shall have their root systems dipped into an anti-desiccant gel prior to planting.
- Plants shall be installed so that the top of root mass is level with the top of existing grade. Plant material shall be transported to the site in a tarp or covered truck. Plants shall be kept moist prior to planting.
- All non-organic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

- Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the project.
- Upon completion of the planting, signage shall be installed as per the Forest Retention Area Protection Division shown on Sheet 2 of the Forest Conservation Plan.
- Plantings shall be maintained and guaranteed in accordance with the Maintenance and Guarantee requirements for project.

Maintenance of Plantings

- Maintenance of plantings shall last for a period of 24 months.
- All plant material shall be retained under a mesh during the 1st growing season. Weeding may be done or less frequent depending on weather conditions. During second growing season, once a month during May-September, if needed.
- Sensitive native and species woods will be removed from reforestation areas. Old E&A assessment species will be retained.
- Plants will be examined a minimum two times during the growing season for serious plant and disease. Serious problems will be treated with the appropriate agent.
- Dead branches will be pruned from plantings.

Guarantee Requirements

- After one growing season, plant material shall be maintained at 95% survival threshold. A 75 percent survival rate of forestation plantings will be required at the end of the 24 month maintenance period. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season.
- The contractor will not be liable for plant loss due to theft or vandalism.

Survey for Reforestation

- The developer shall post a surety (bond, letter of credit) to ensure that reforestation plantings are completed. Upon acceptance of the planting by the County, the bond shall be returned.

Forest Conservation Easement

Unauthorized disturbances of vegetation is prohibited. Violators are subject to fines as imposed by the Howard County Forest Conservation Act of 1992.

Trees for Your Future

▼ DENOTES SIGN LOCATION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALDORP NATIONAL FREE
 ELLICOTT CITY, MARYLAND 21114
 410.461.2995

MD DNR Qualified Professional
 USACE Wetland Delimited
 Certification # DPZ-93-1006100448
 JOHN P. CANOLES
Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS

DATE	REVISION DESCRIPTION

ENGINEER'S CERTIFICATE

I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer (print name below signature) _____ Date _____

DEVELOPER'S CERTIFICATE

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Signature of Developer (print name below signature) _____ Date _____

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD _____ Date _____

DEVELOPER/OWNER

ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 92
 GLENWOOD, MARYLAND 21738
 410.469.4025

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning _____ Date 10/23/01
 Chief, Division of Land Development _____ Date 11/19/01
 Chief, Development Engineering Division _____ Date 9/27/01

SUBDIVISION ST. ANDREWS EPISCOPAL CHURCH WOODSIDE ESTATES	SECTION/AREA N/A	LOT NO. 1
PLAT NO. 9978 14903 - 14907	ELEC. DIST. 4TH	CENSUS TR. 6040
DEED REF. 4491903	TAX/ZONE H	SEWER CODE PRIVATE
WATER CODE PRIVATE	SEWER CODE PRIVATE	

OFF-SITE FOREST CONSERVATION PLAN

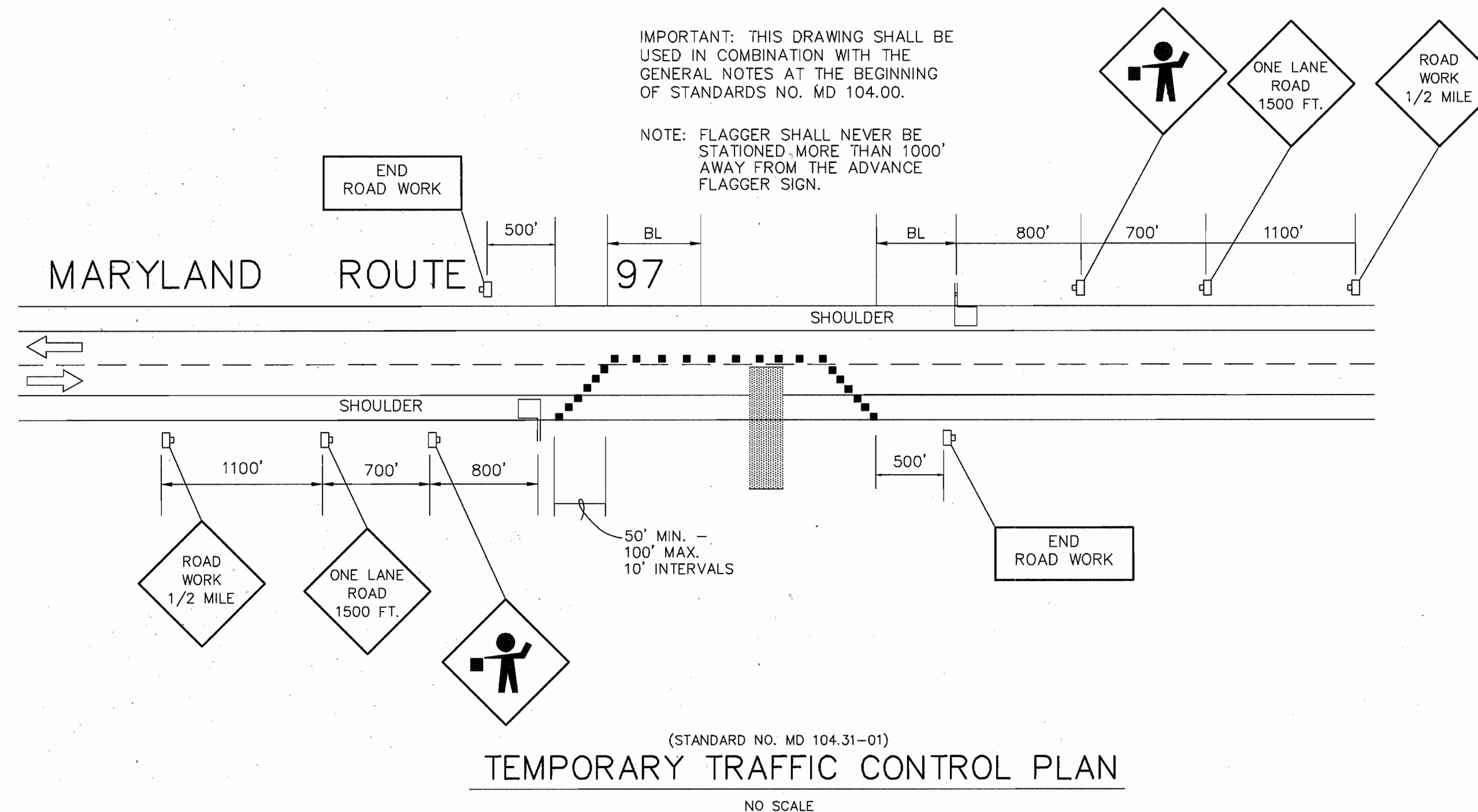
ST. ANDREWS EPISCOPAL CHURCH
 WOODSIDE ESTATES
 LOT 1

TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' DATE: MAY 23, 2001
 SHEET 6 OF 7

MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

GENERAL

1. THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISION IS TO SET FOR THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE TO TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE CONTRACTOR AND/OR PERMITTEE.
2. PROPERTY TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY AND THAT OF HIGHWAY WORKERS HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPERTY APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
4. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1982; INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH.
5. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FOR IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE TO HAVE BEEN CHECKED FOR APPROVED USAGE.
7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC, AND ANY ADDITIONAL SIGNING HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED.
8. THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS.
9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 814 OF THE SPECIFICATIONS. FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE.
10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE.
11. THROUGHOUT THE PERIOD(S) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TCP. IN LIEU OF THE TCP PREPARED FOR THIS PROJECT, AND/OR INDIVIDUAL TYPICAL TRAFFIC CONTROL STANDARDS, THE CONTRACTOR AND/OR PERMITTEE HAS THE OPTION OF PREPARING AND SUBMITTING A TCP, WHOLLY OR IN PART, OF HIS OWN DESIGN, FOLLOWING GUIDELINES SET FORTH IN THE MUTCD AND PRESCRIBED BY THE ADMINISTRATION. A TCP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE SHALL NOT BE IMPLEMENTED UNTIL ADVANCE WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TCP'S MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN SITUATIONS WHERE TCP'S JOINTLY IMPLEMENTED, CARE SHALL BE EXERCISED TO PRESENT CORRECT AND NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE NOTED.
13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTED. NO TRAVEL LANE(S) OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PKE
 ELIJAH CITY, MARYLAND 21042
 (410) 461-2855

REVISION	DATE	DESCRIPTION

ENGINEER'S CERTIFICATE
 I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer (print name below signature) *[Signature]* Date **8/9/01**

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Signature of Developer (print name below signature) *[Signature]* Date **8/9/01**

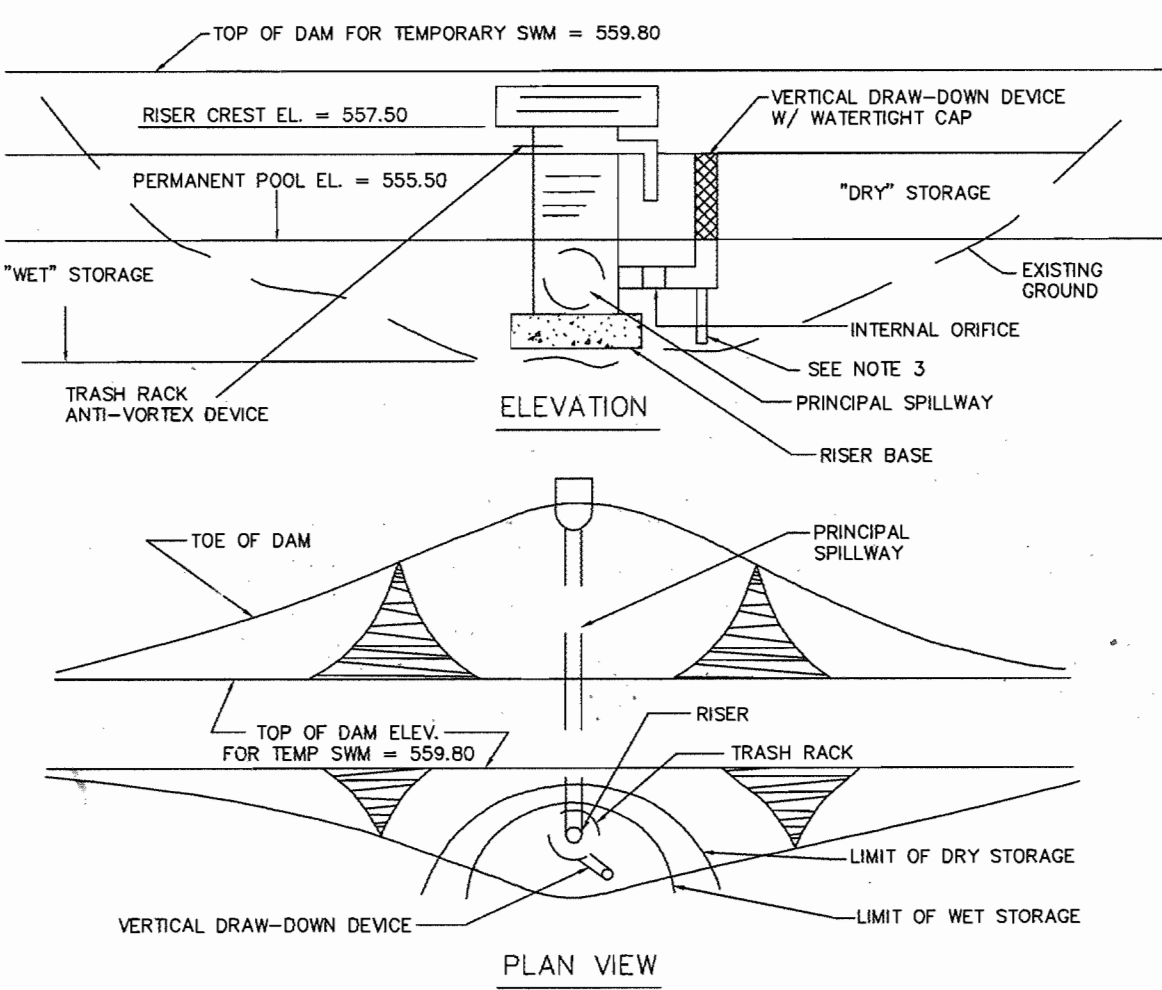
Reviewed for HOWARD SCD and meets Technical Requirements.
 U.S.D.A.-Natural Resources Conservation Service Date
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Howard SCD Date

DEVELOPER/OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 52
 GLENWOOD, MARYLAND 21738
 (410) 488-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director, Department of Planning and Zoning Date **10/23/01**
 Chief, Planning and Development Date **10/19/01**
 Chief, Development Engineering Division Date **9/1/01**

SUBDIVISION ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES" SECTION/AREA LOT NO. 1
 PLAT NO. 14893 BLOCK NO. 16 ZONE RC-DEO TAX/ZONE 14 ELEC. DIST. 4TH CENSUS TR. 6040
 WATER CODE PRIVATE SEWER CODE PRIVATE

TRAFFIC CONTROL PLAN
ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1
 TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 8 OF 8



SIZE	MATERIAL	LENGTH
6"	HDPE	36'
15"	HDPE	59'
18"	HDPE	41'
24"	HDPE	402'
18"	C.M.P.	14'
24"	RCCP	65'

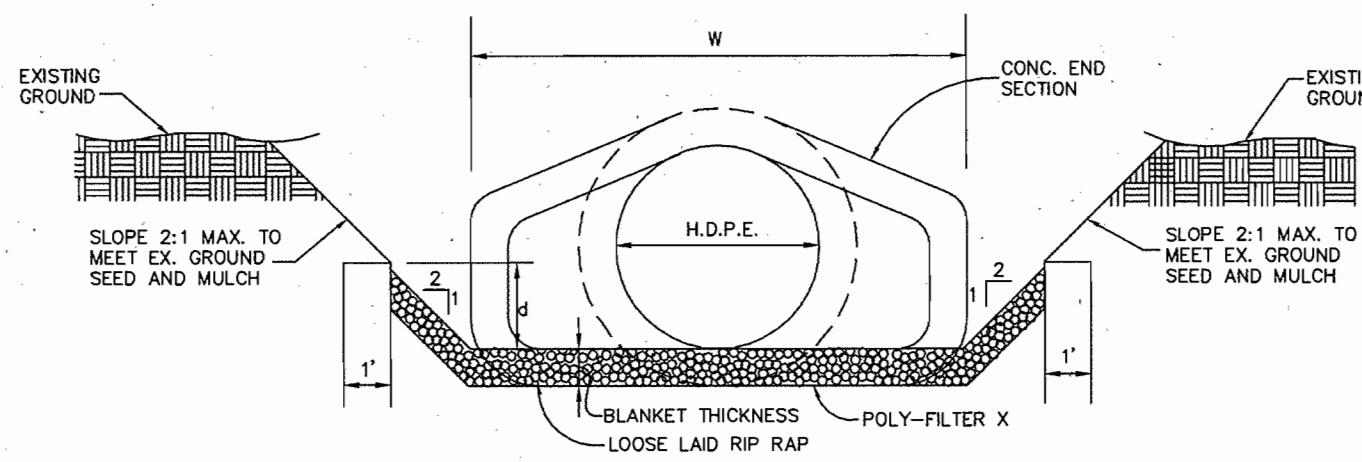
BASIN DRAWDOWN SCHEMATIC
VERTICAL DRAW-DOWN DEVICE
NOT TO SCALE

DESIGN STORM	CONTROL STRUCTURE ELEV.	ALLOWABLE RELEASE RATE	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION (PROPOSED)	STORAGE VOLUME (ACFT.) (PROPOSED)	STORAGE VOLUME (ACFT.) (REQUIRED)
2 YEAR	553.00	0.70 CFS	---	0.84 CFS	553.57	0.24	0.15
10 YEAR	553.50	10.1 CFS	---	5.00 CFS	554.70	0.54	0.28
100 YEAR	555.61	N/A	---	12.3 CFS	556.02	0.91	N/A

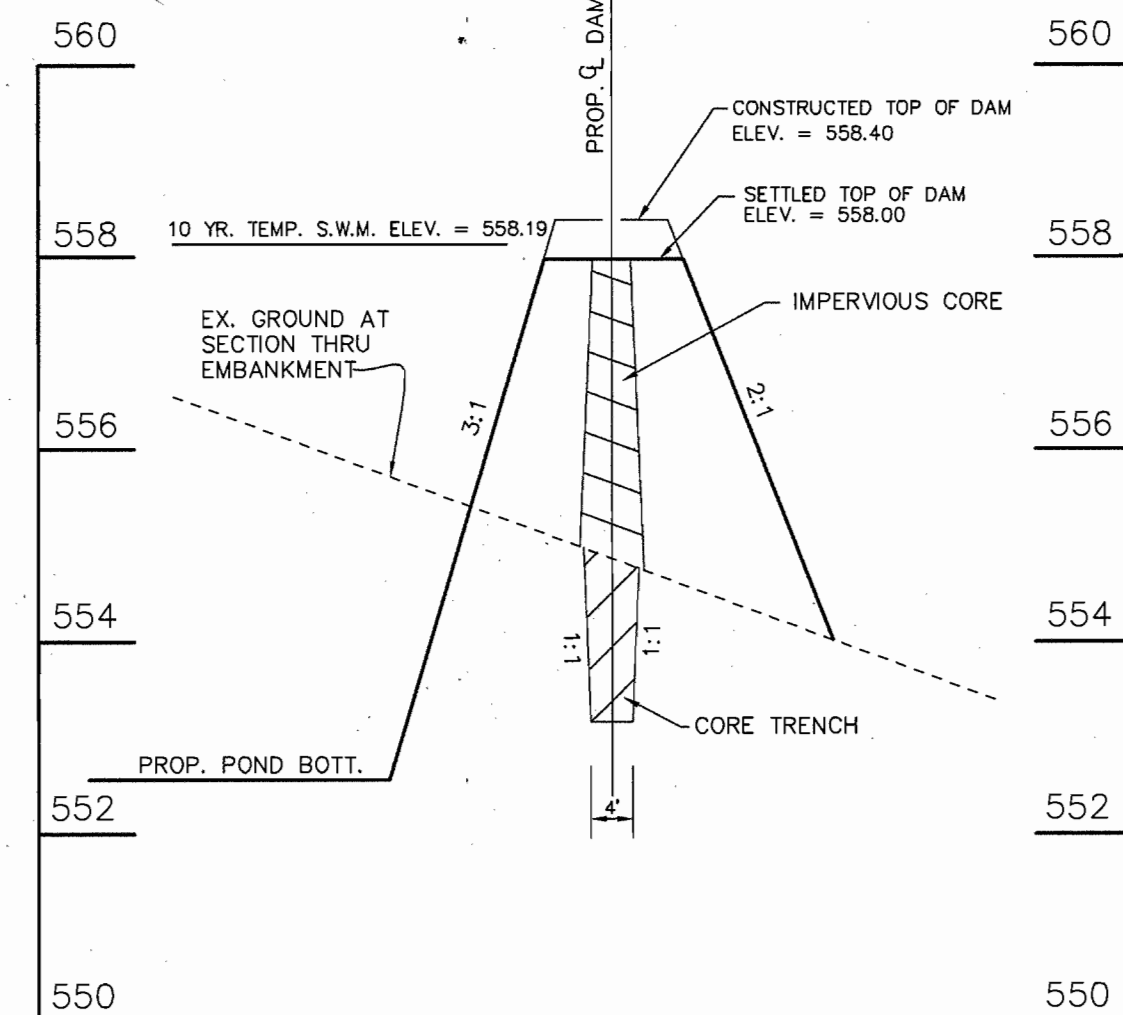
WETTED AREA TO FACILITY (ACRES): 7.98 AC. DURING CONSTRUCTION
DRAINAGE AREA TO FACILITY = 0.024 SQ. MI. OR 7.96 AC.

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

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



STRUCTURE	AREA	WETTED PERIMETER	R	R 2/3	S	S 1/2	W	d	N	V10 (f.p.s.)	Q10 (c.f.s.)	RP-RAP SIZE D ₅₀	BLANKET THICKNESS
S-1	6.4512	9.757	0.6612	0.7579	0.0050	0.0707	6.0'	0.84'	0.04	1.99	12.73	9.5"	19"
S-2	6.4512	9.757	0.6612	0.7579	0.0244	0.1562	6.0'	0.54'	0.04	1.54	12.8	9.5"	19"
S-3	6.4512	9.757	0.6612	0.7579	0.0244	0.1562	6.0'	0.54'	0.04	1.54	12.8	9.5"	19"
WATER QUALITY SWALE	1.552	7.073	0.2199	0.3625	0.0050	0.2236	6.0'	0.24'	0.04	3.01	4.00	5.5"	7"
OUTFALL CHANNEL OF POND	1.680	6.342	0.2649	0.4106	0.0244	0.1562	5.0'	0.30'	0.04	2.38	3.54	5.5"	7"

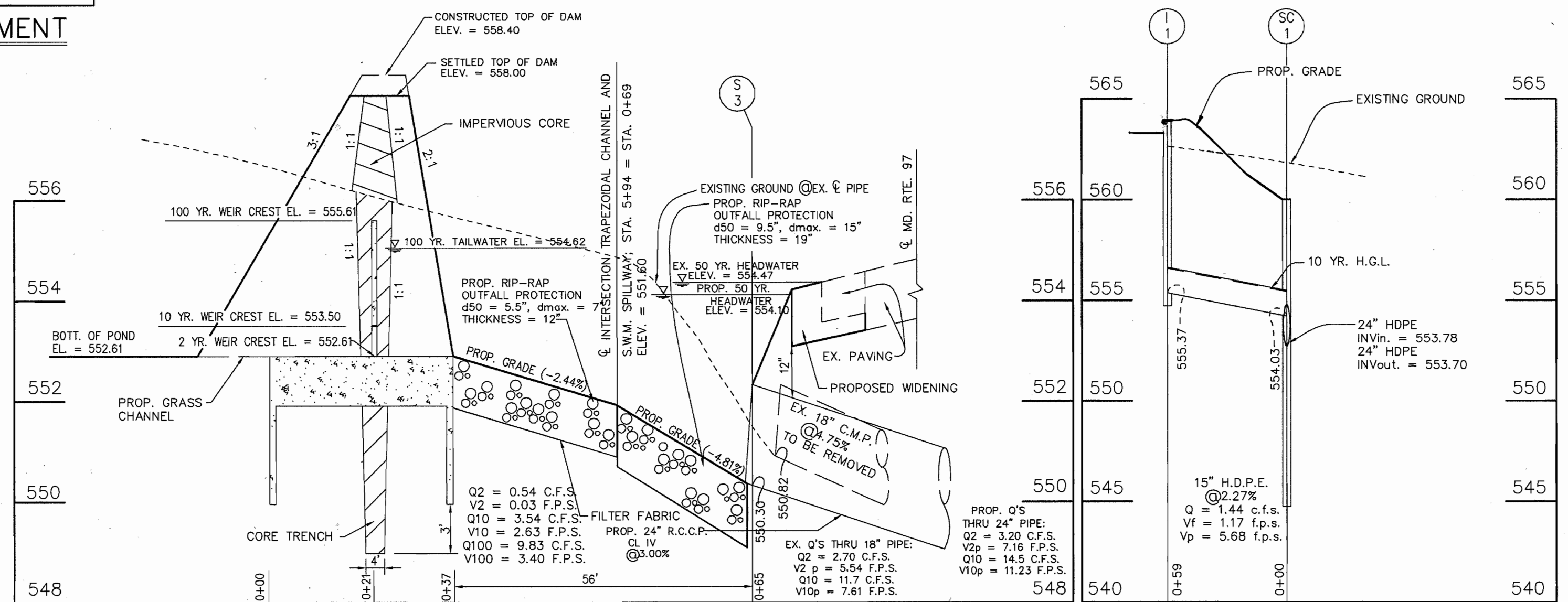


SECTION THRU EARTH EMBANKMENT
SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'

STRUCTURE SCHEDULE									
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	BASELINE STA.	OFFSET	TYPE	REMARKS	
I-1	563.90	---	555.37	---	STA. 11+38.5	36'L	A-5 INLET	S.D. - 4.40	
I-2	560.23	555.51	555.01	---	STA. 6+25.4	94'R	A-5 INLET	S.D. - 4.40	
I-3	559.17	---	555.67	---	STA. 5+02	12'L	A-5 INLET	S.D. - 4.40	
I-4	557.00	553.43	553.18	---	STA. 1+53	67'R	'D' INLET	S.D. - 4.11	
M-1	562.00	554.35	554.10	---	STA. 2+65	27'R	STD. MANHOLE	G. - 5.12	
** SC-1	560.00	553.53, 554.03	553.45	---	N 592,491.69 E 1,304,916.11	---	STORMCEPTOR	MODEL 2400	
* S-1	555.05	553.05	553.00	---	N 592,489.70 E 1,304,988.54	---	HDPE END SECTION		
S-2	550.35	548.35	548.25	---	N 592,554.43 E 1,305,245.54	---	CONC. END SECTION	MD - 368.01	
S-3	552.30	550.30	550.20	---	N 592,598.07 E 1,305,181.90	---	CONC. END SECTION	MD - 368.01	

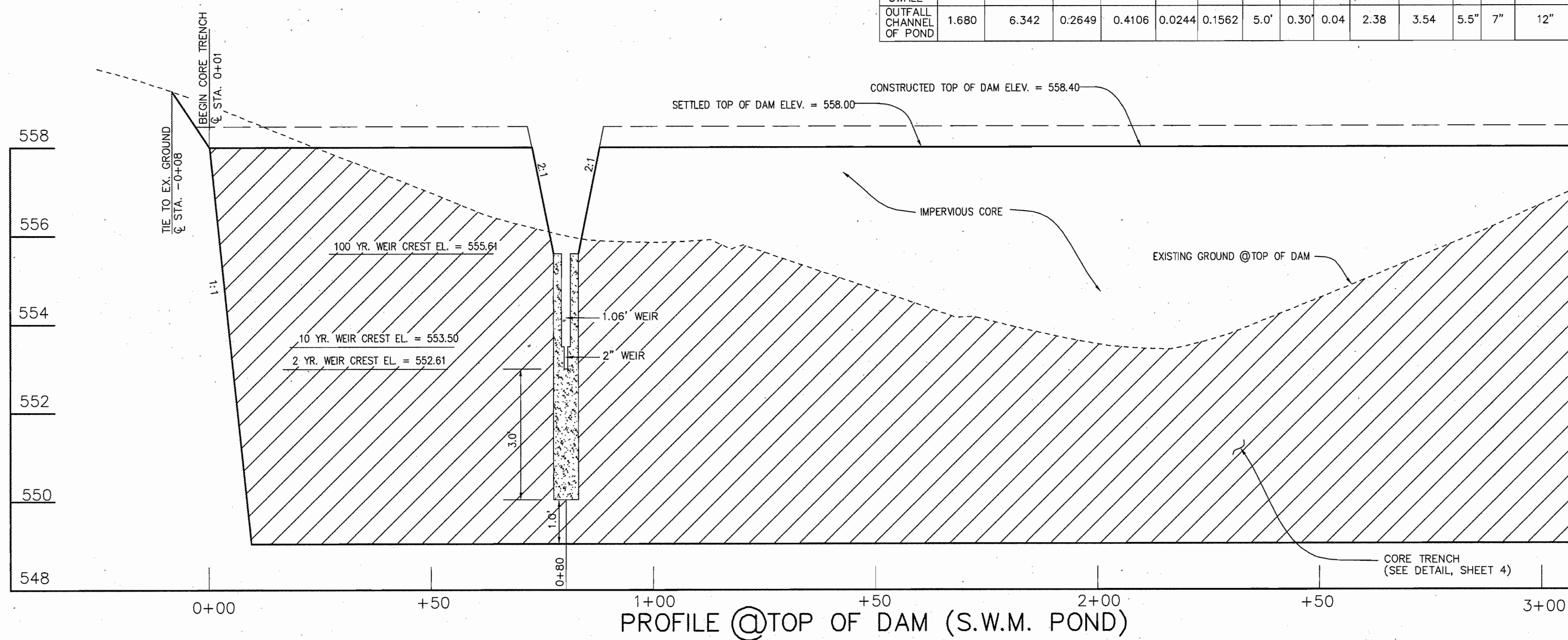
* - CONTACT ADVANCED DRAINAGE SYSTEMS
3300 RIVERSIDE DRIVE
COLUMBUS, OHIO 43221
PHONE: 1-800-733-7473

** - CONTACT STORMCEPTOR AT 1-724-327-3400
MR. ANDREW VIROSTEK
CAMTEX CONSTRUCTION PRODUCTS

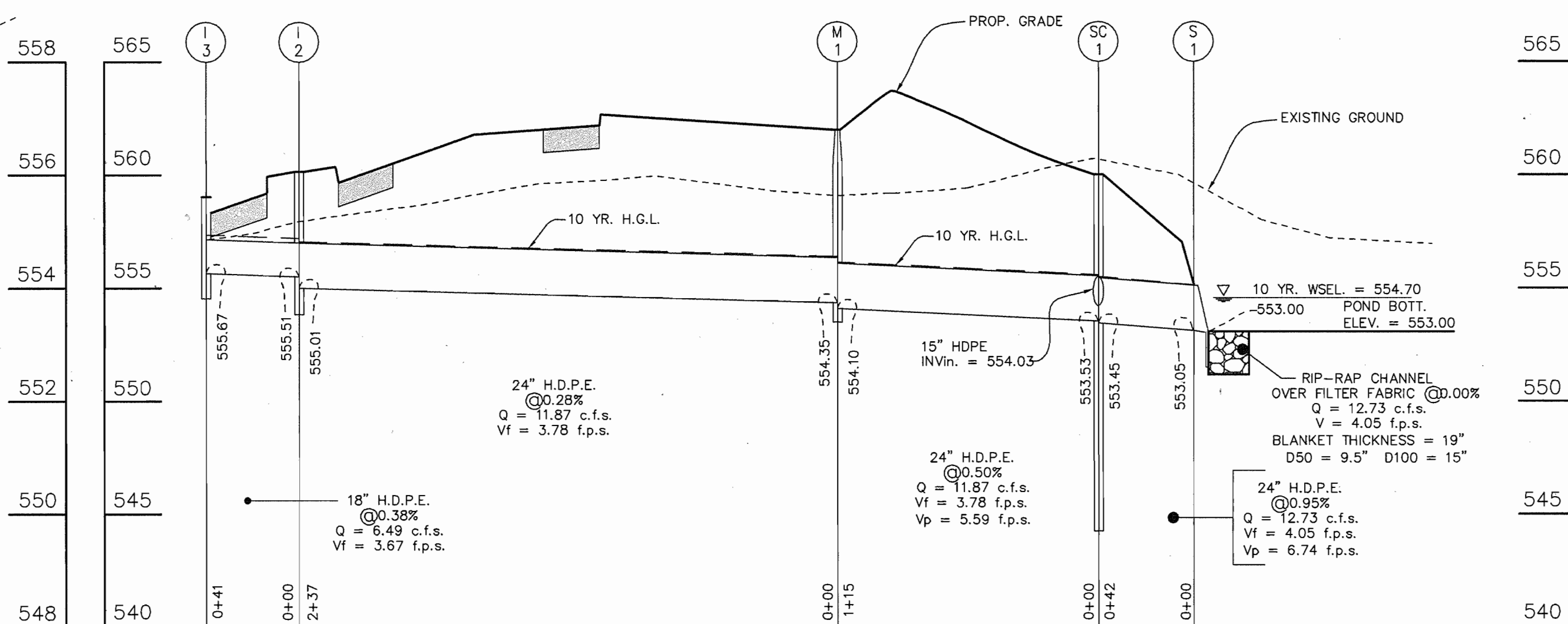


PROFILE THRU SPILLWAY (S.W.M. POND)
SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'

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



PROFILE @TOP OF DAM (S.W.M. POND)
SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'



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



DATE	REVISION
7/5/02	REVISE GRADE OVER I-1 TO SC-1 TO REFLECT GRADE CHANGE

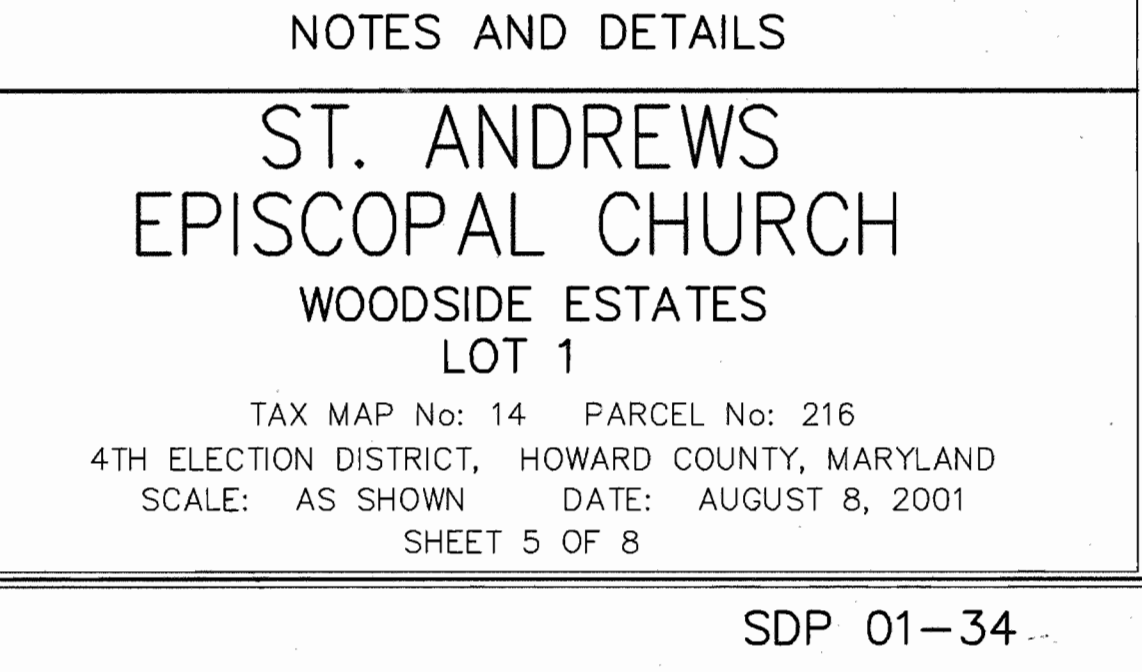
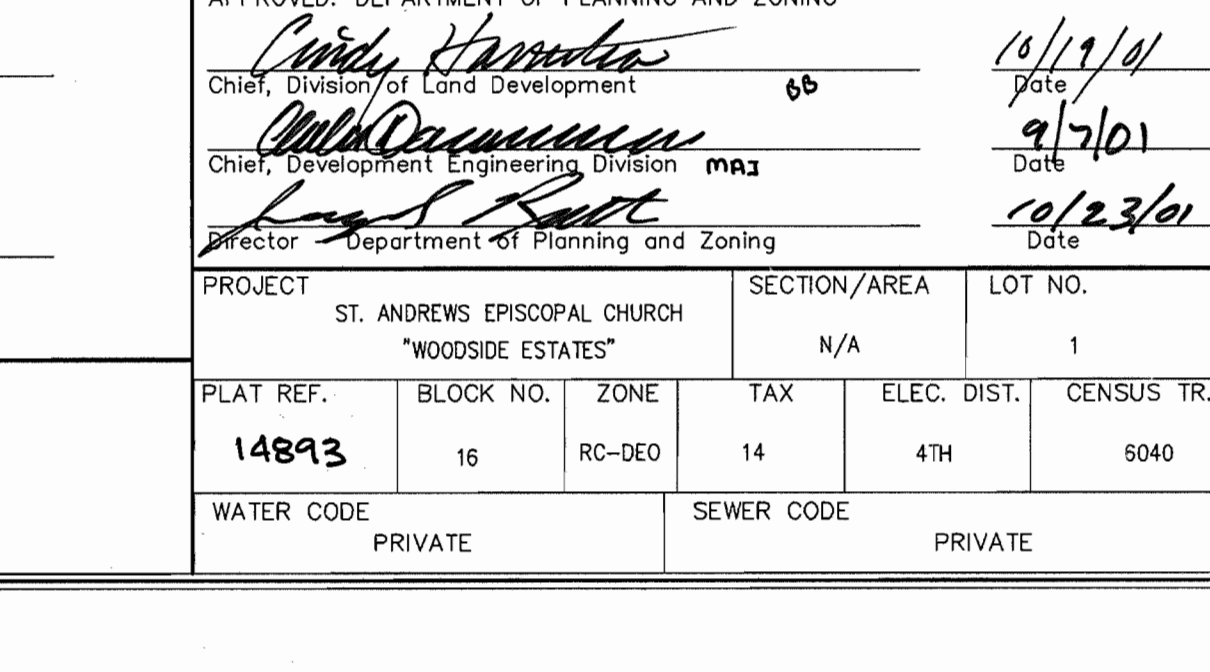
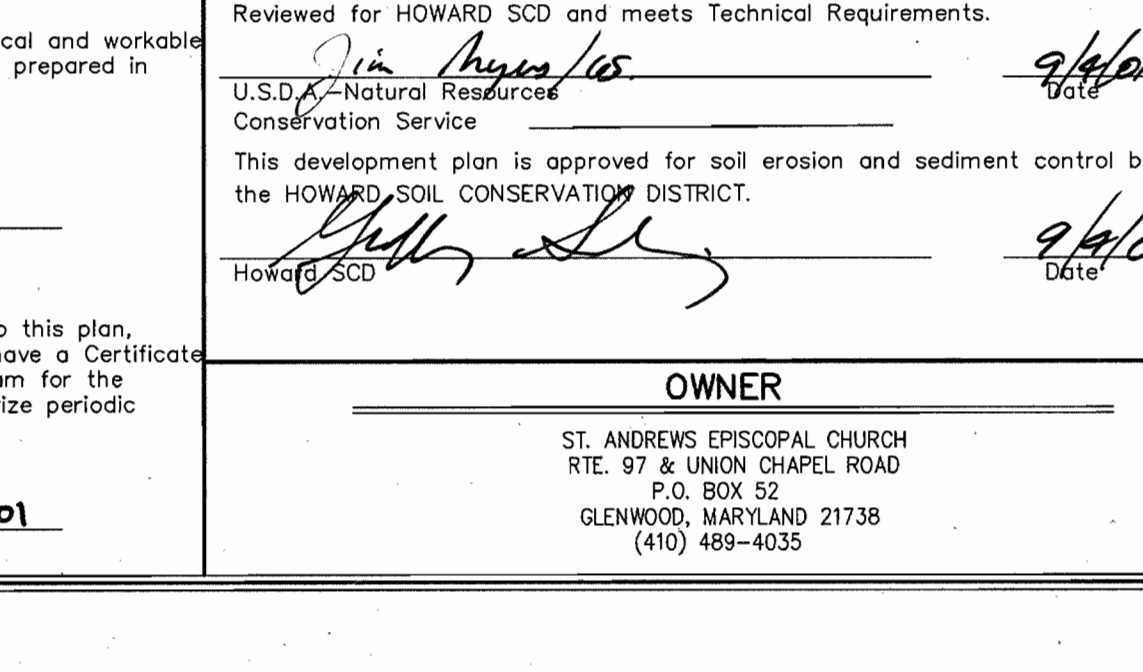
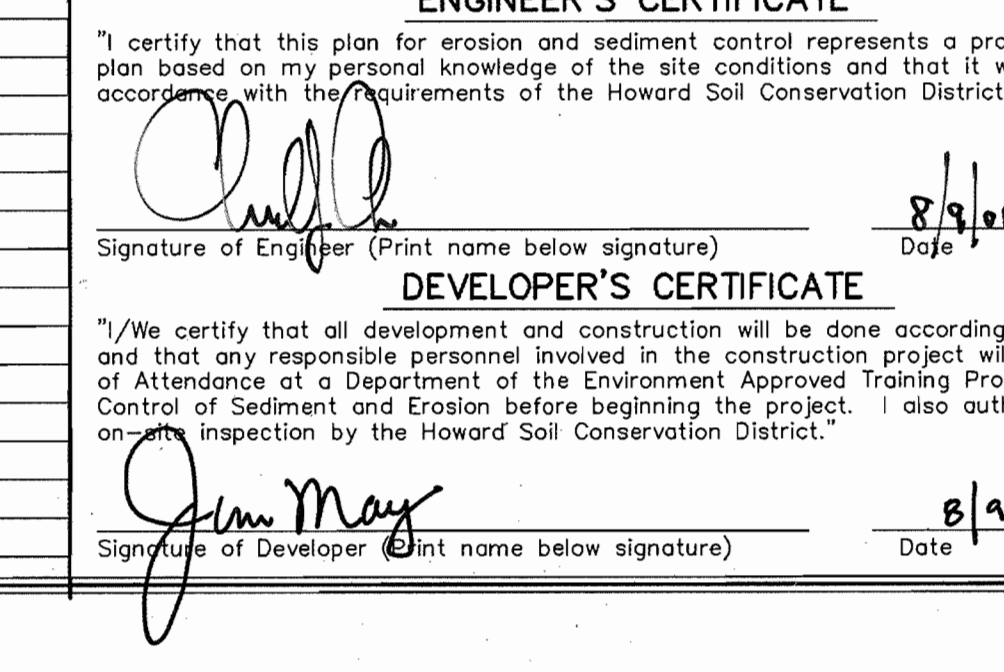
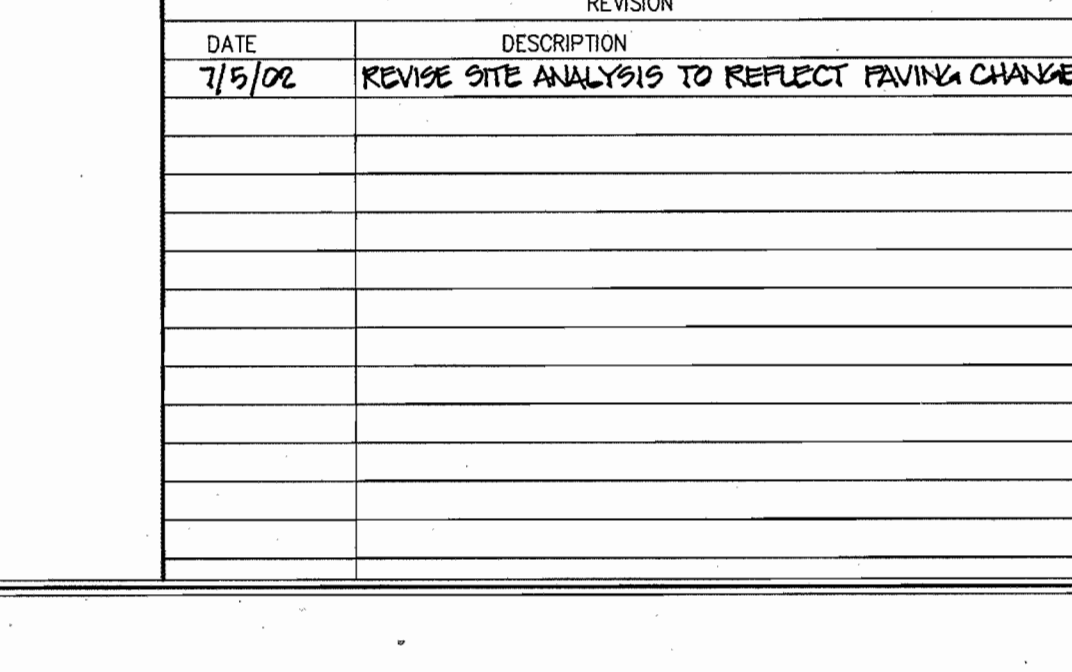
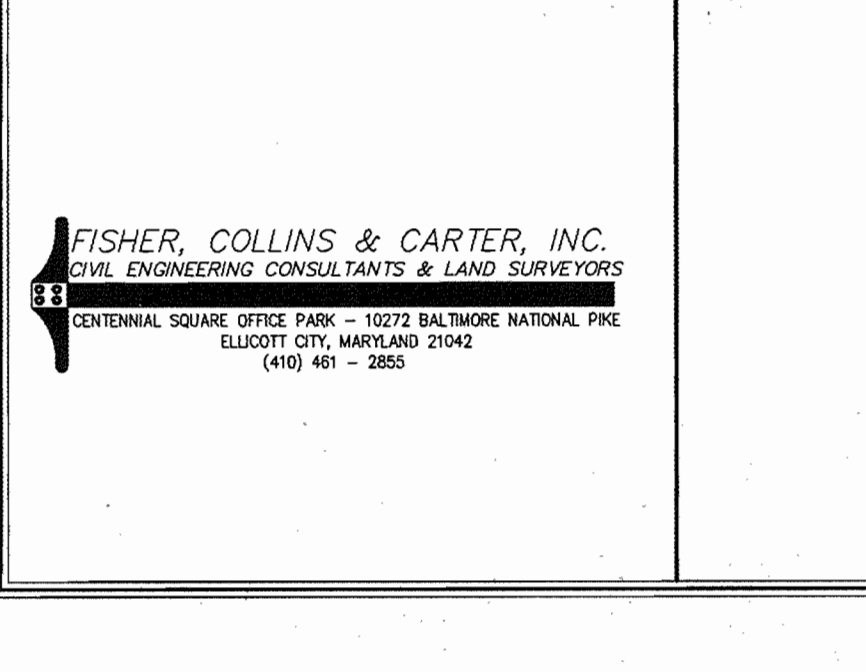
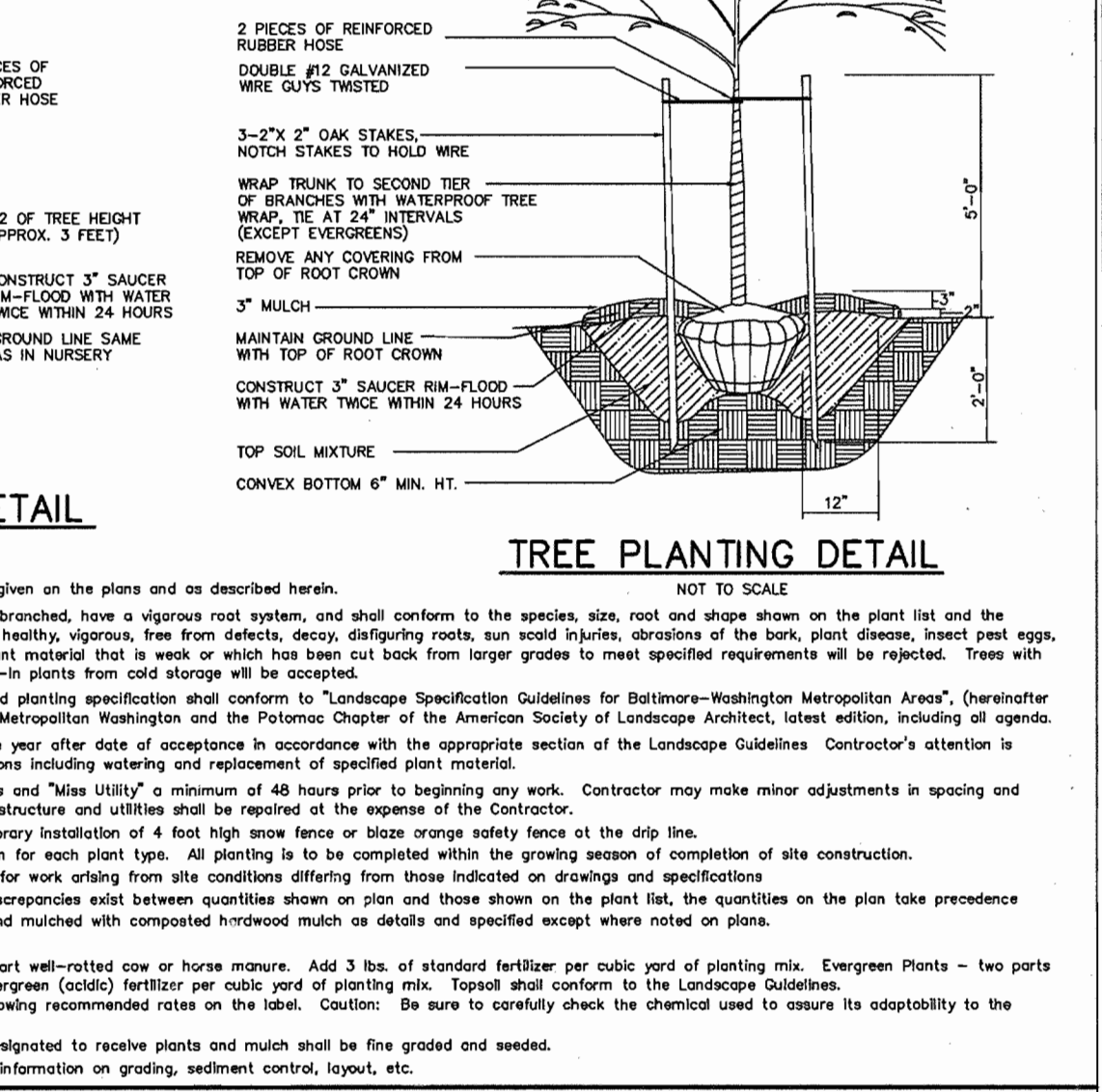
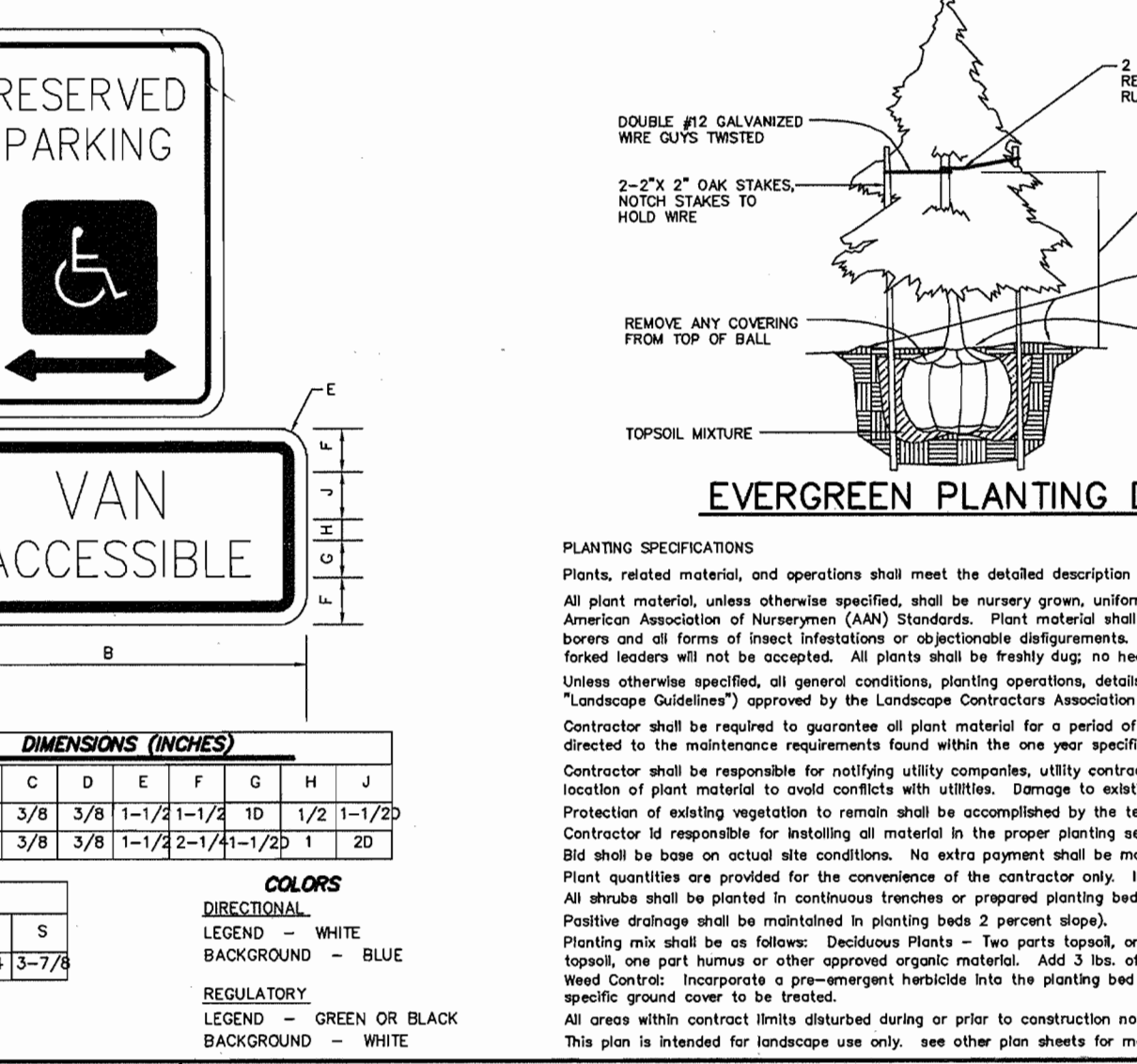
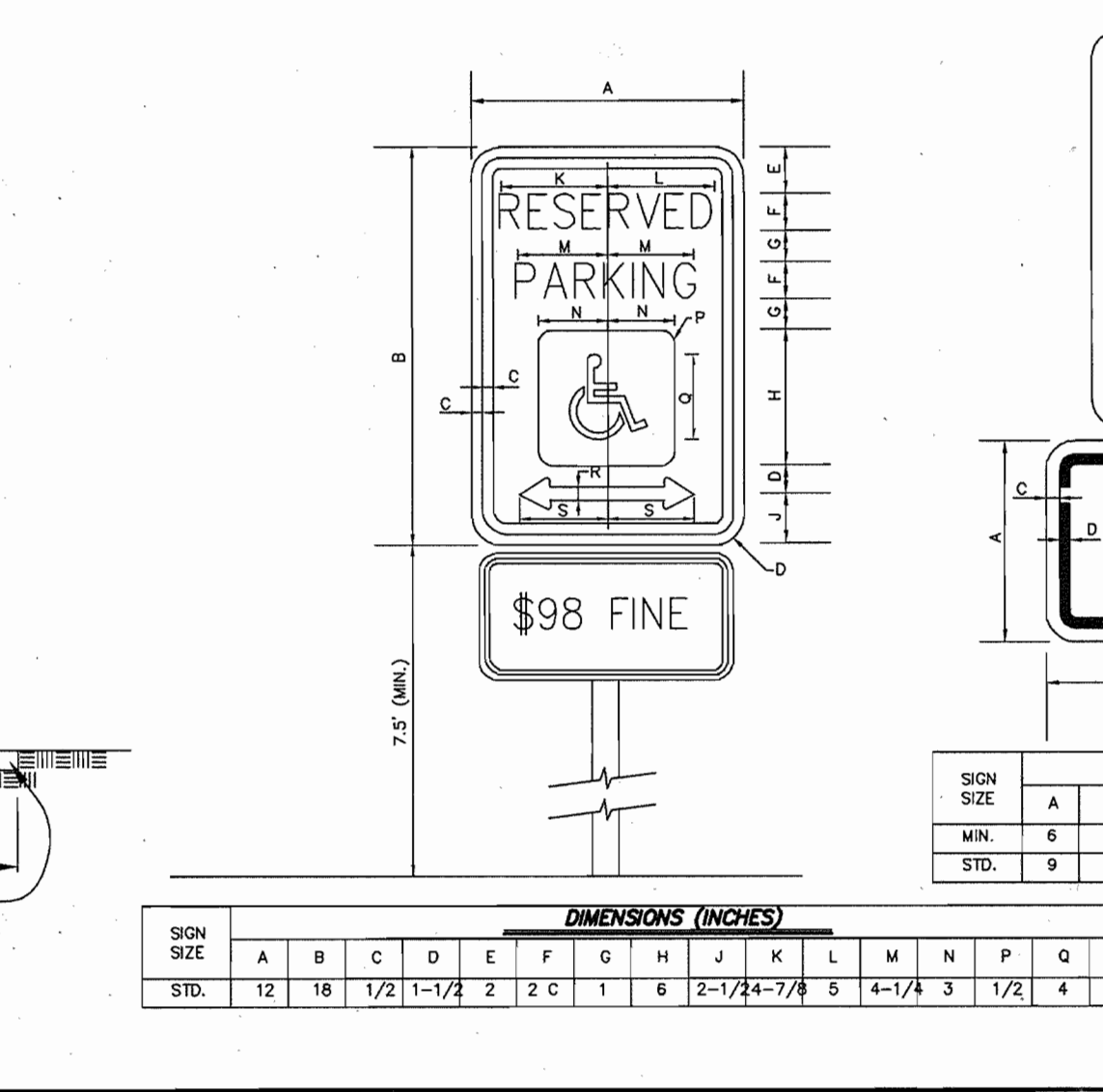
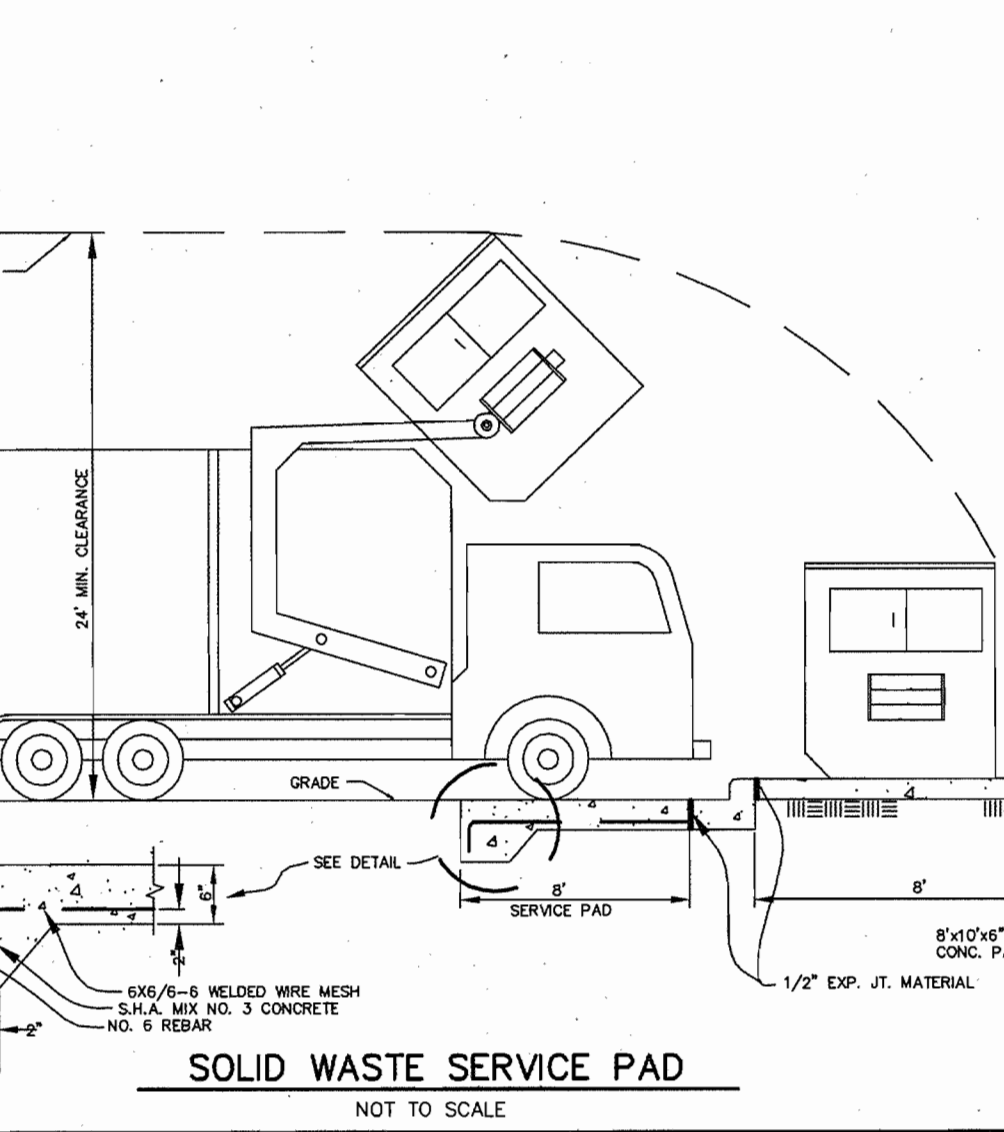
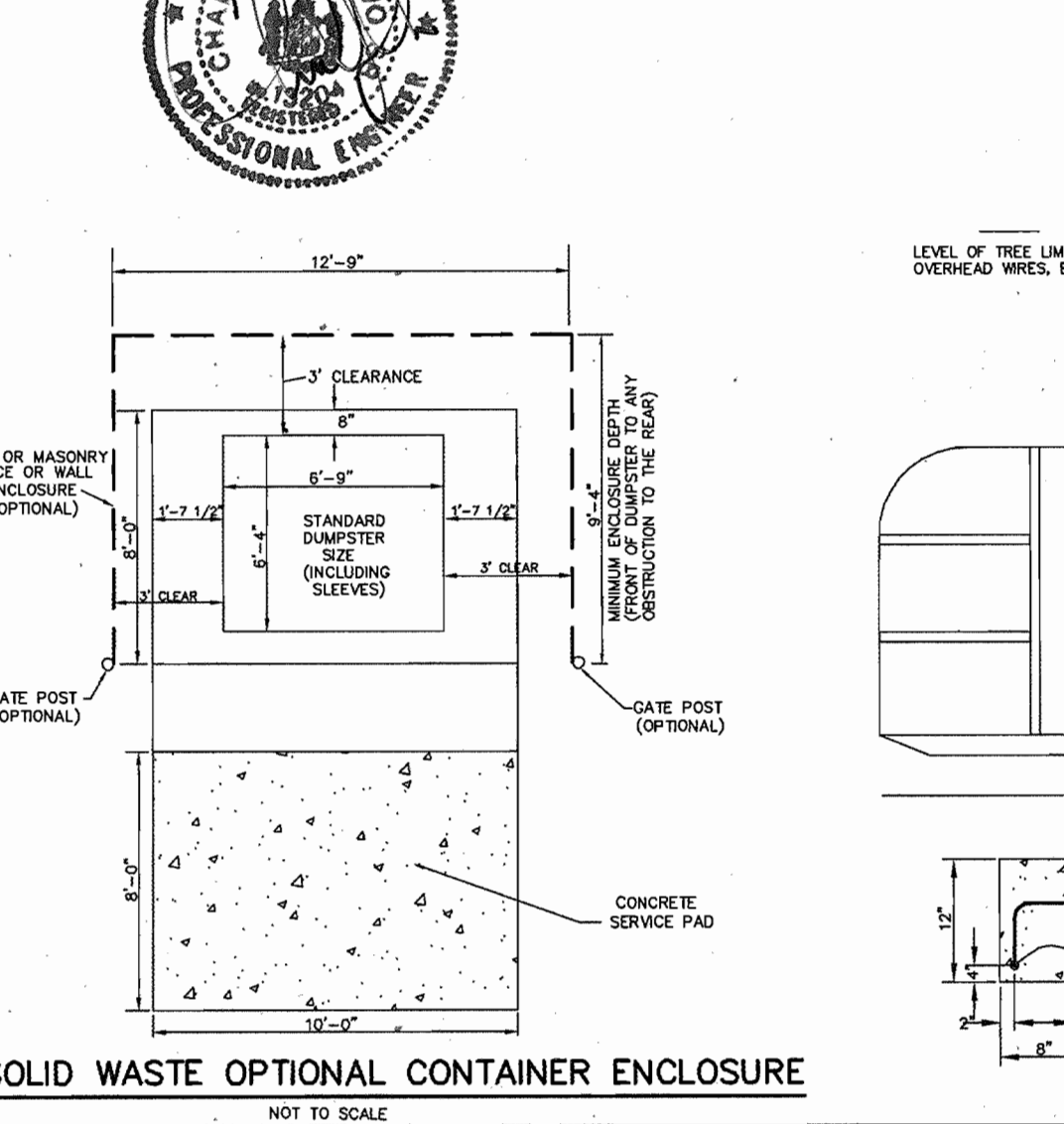
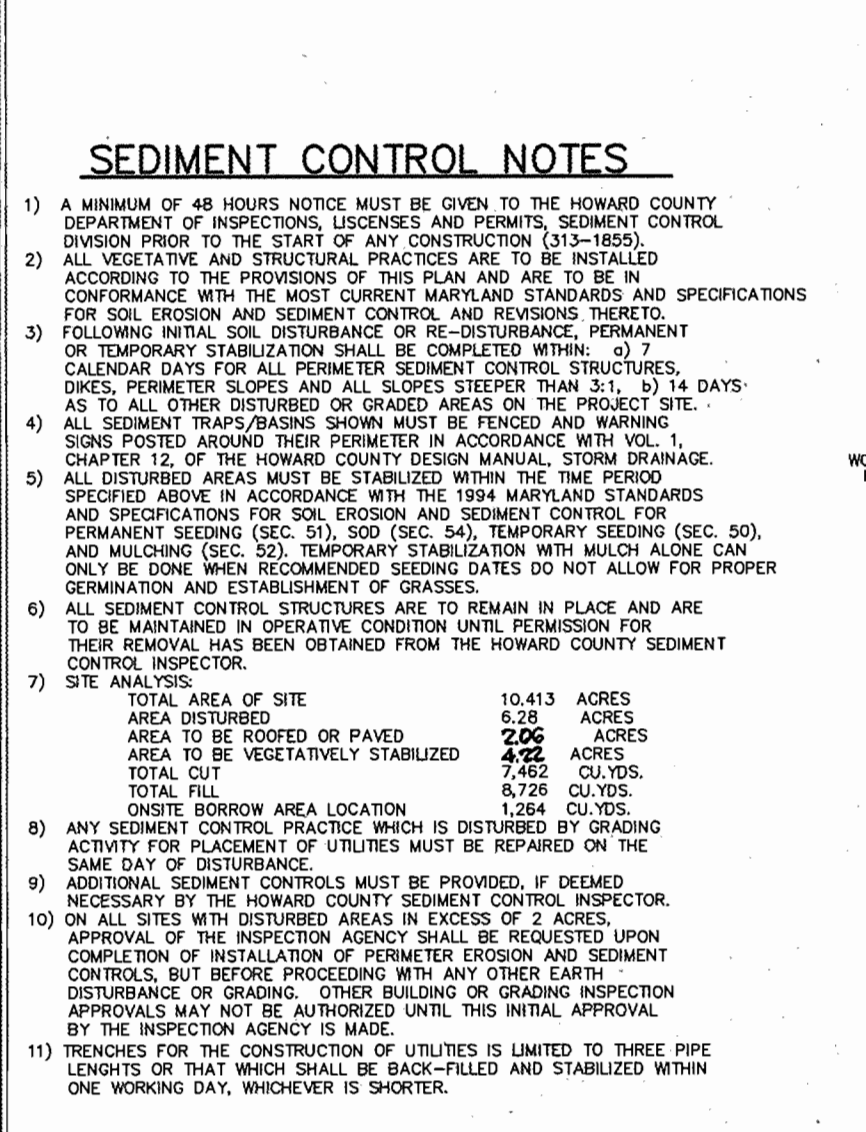
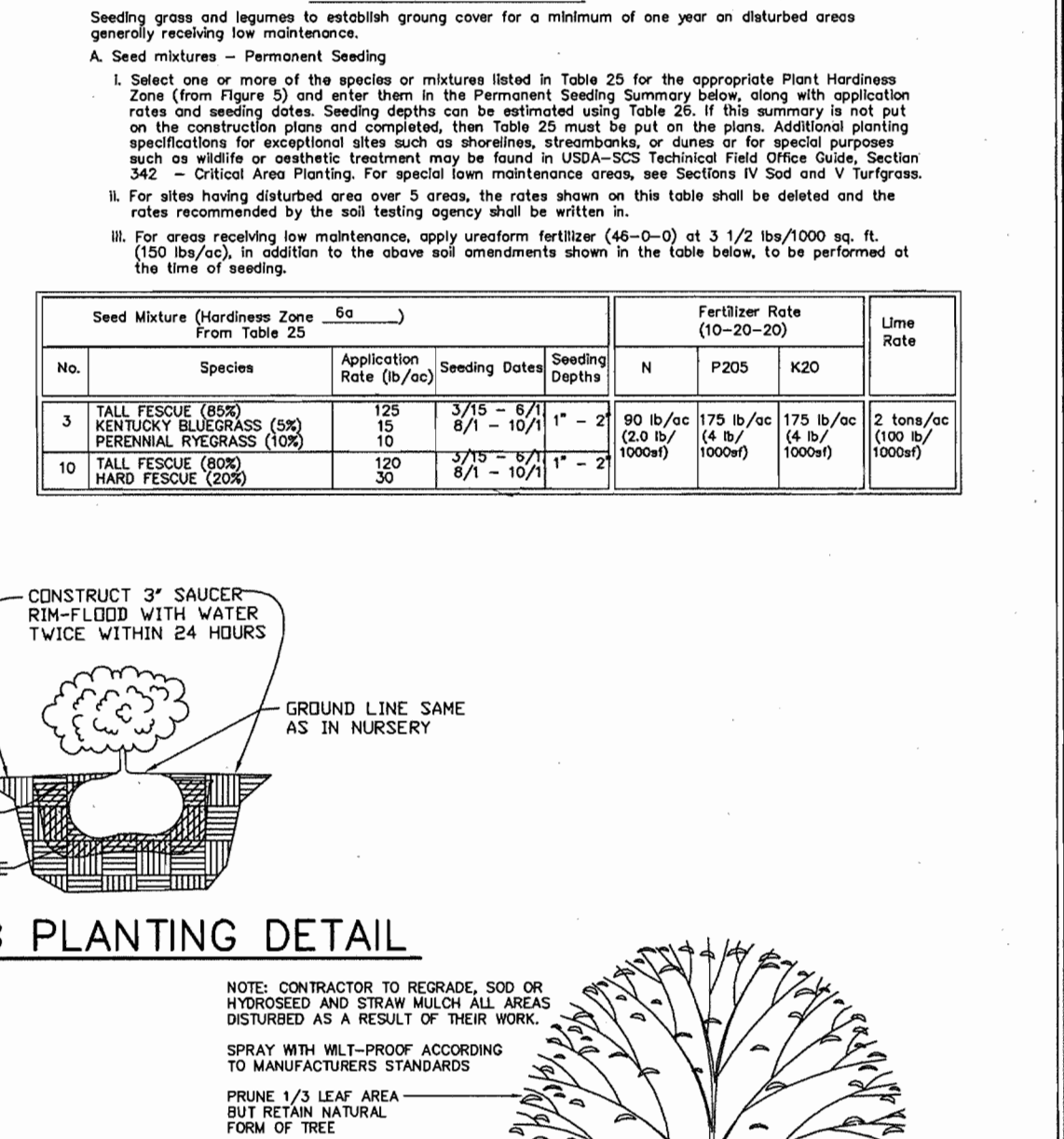
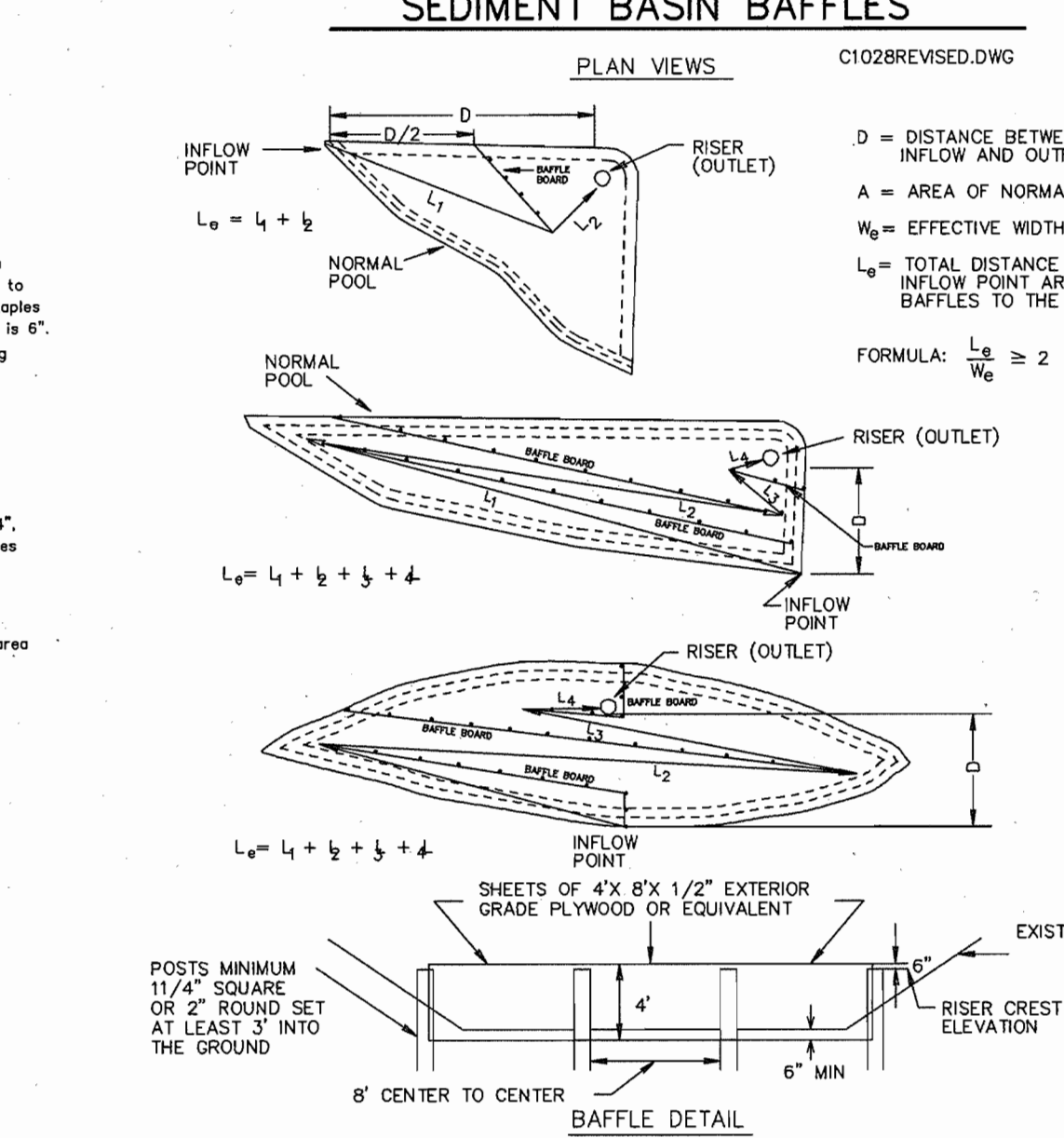
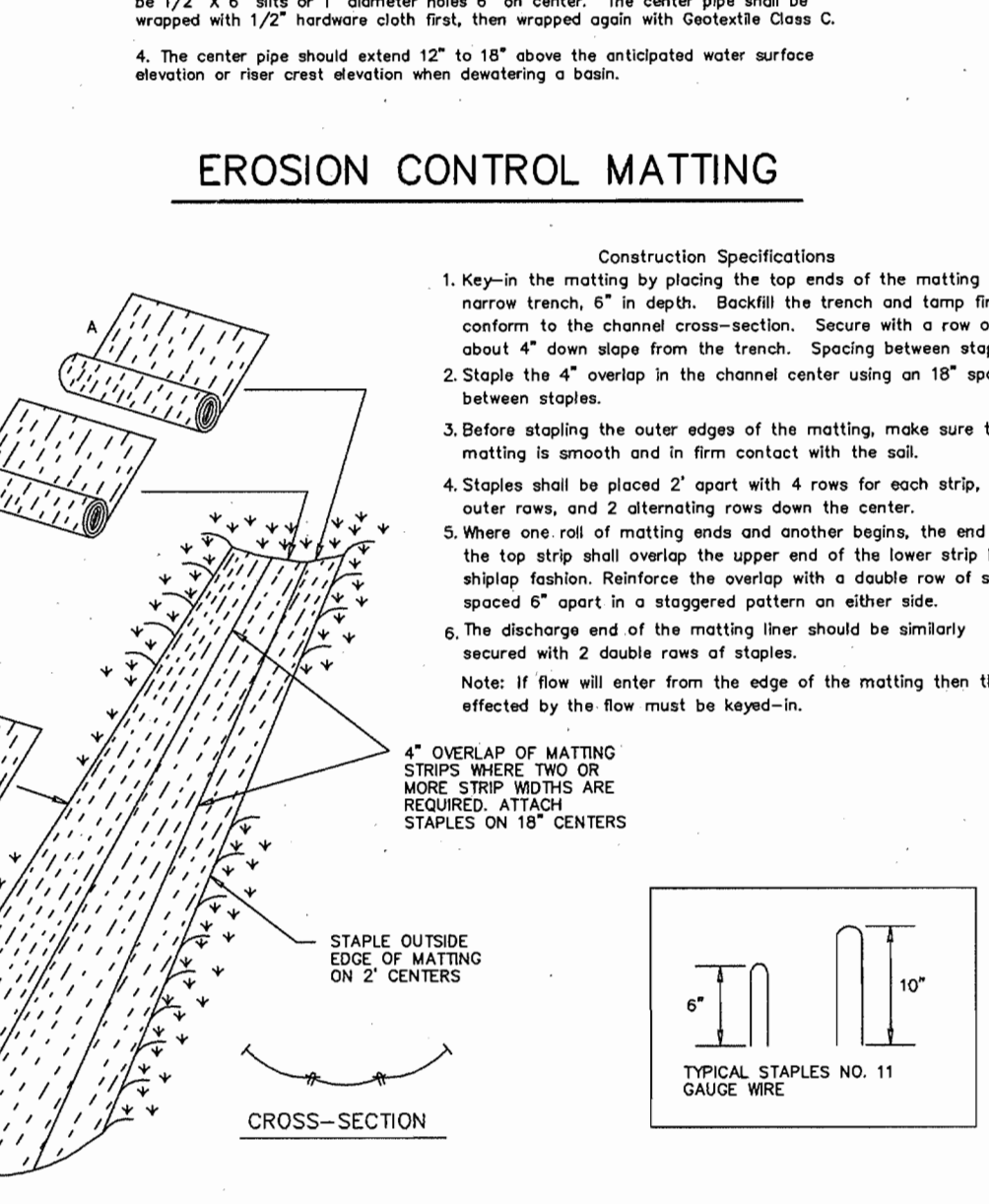
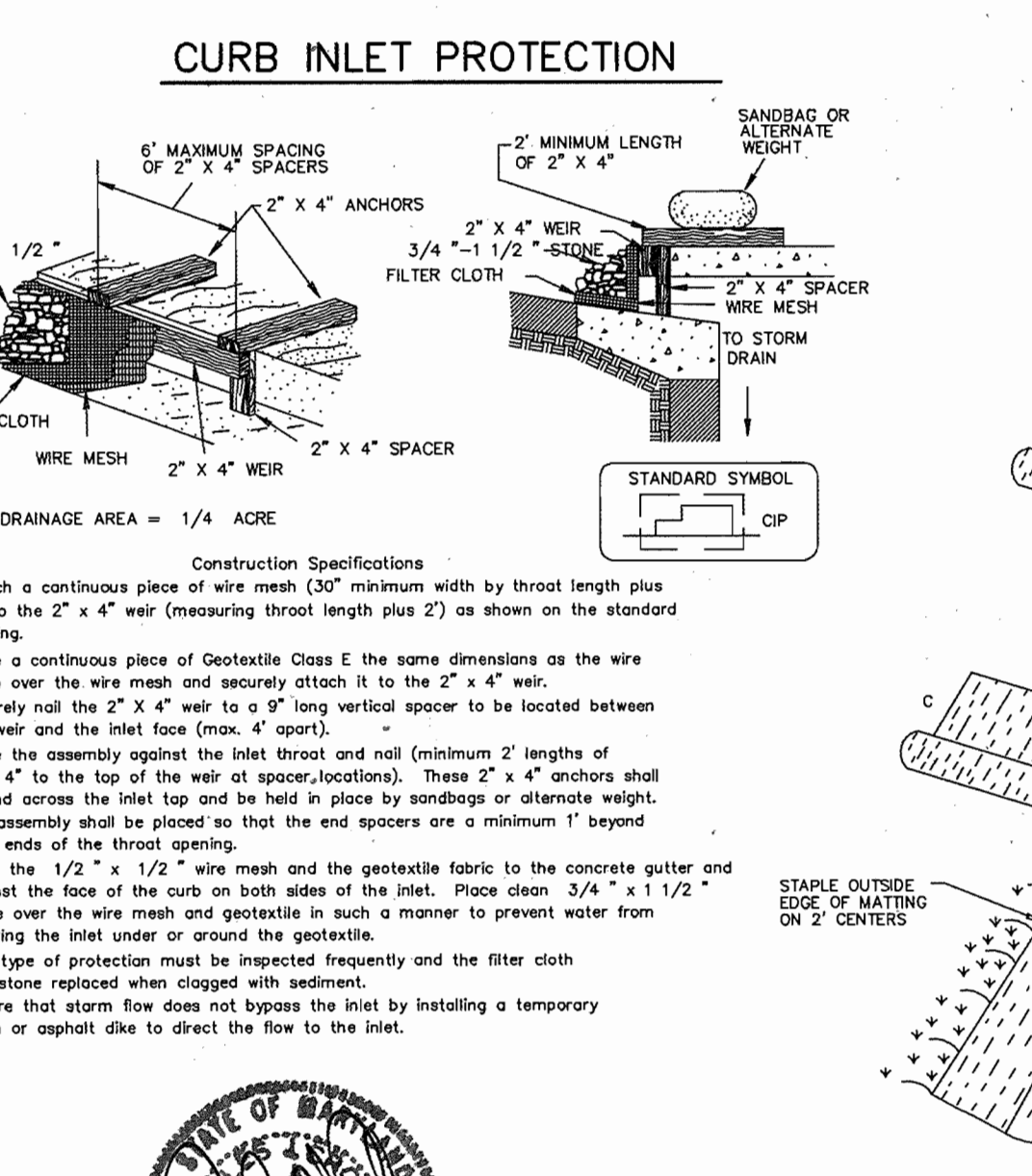
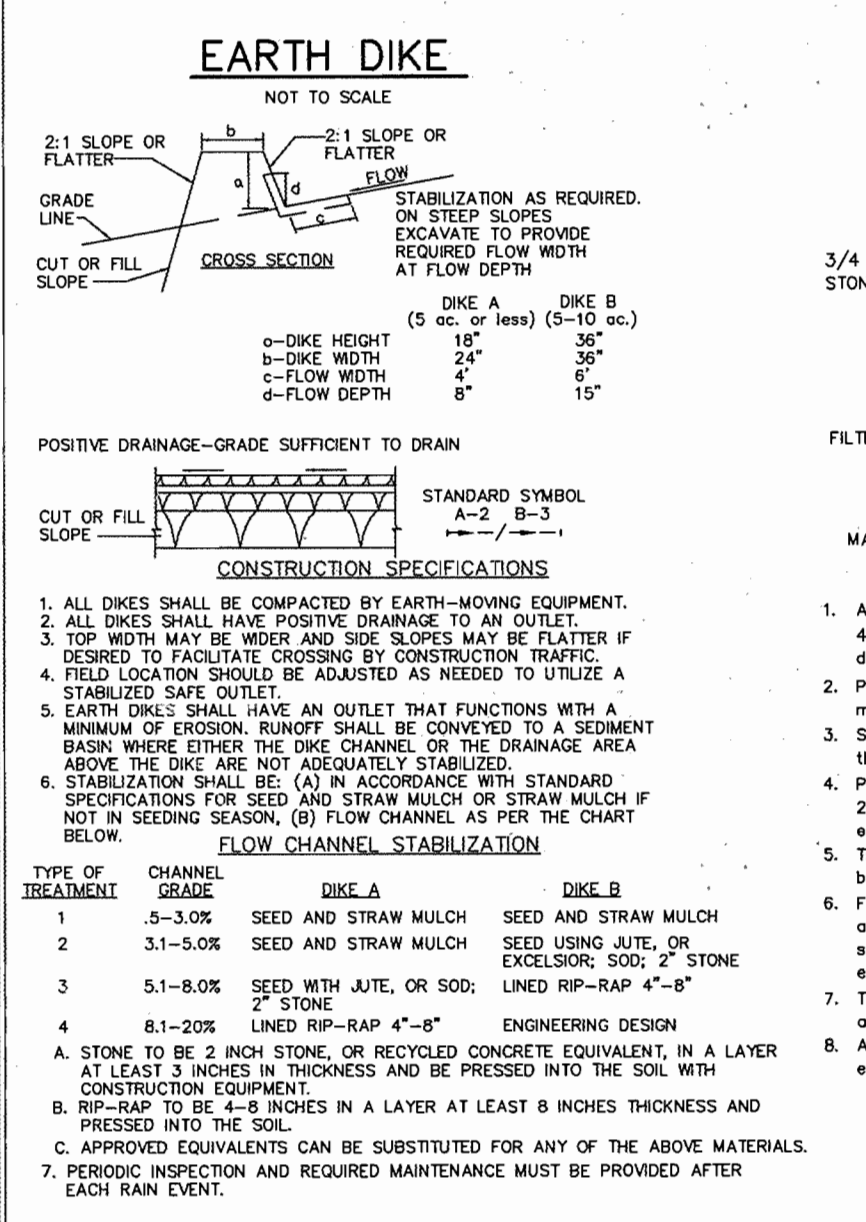
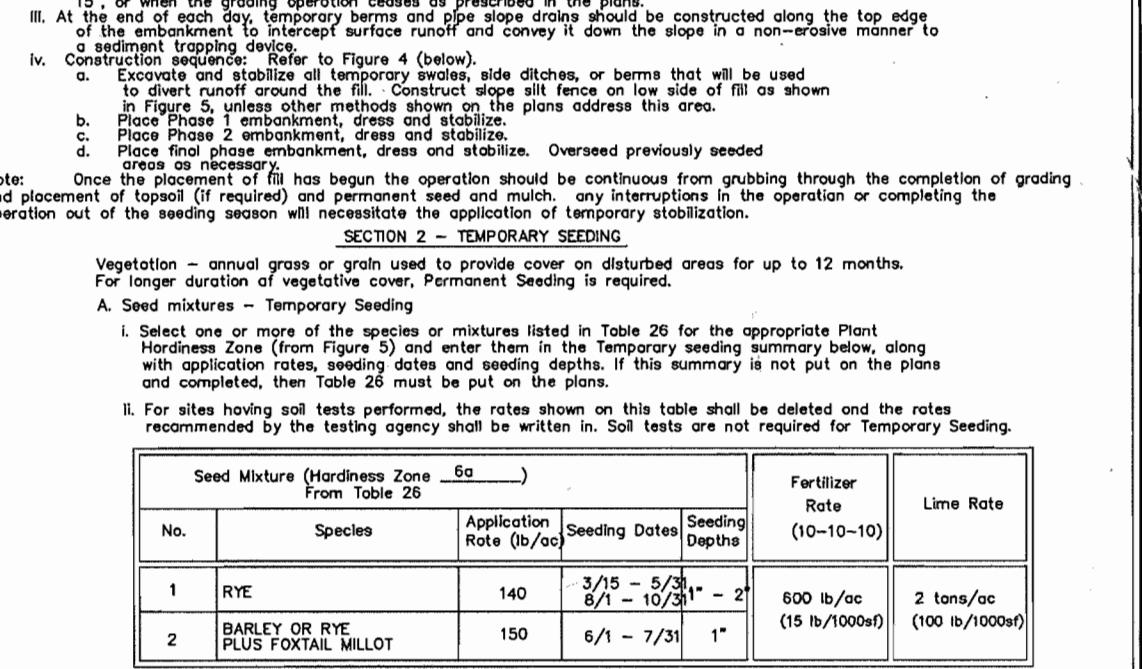
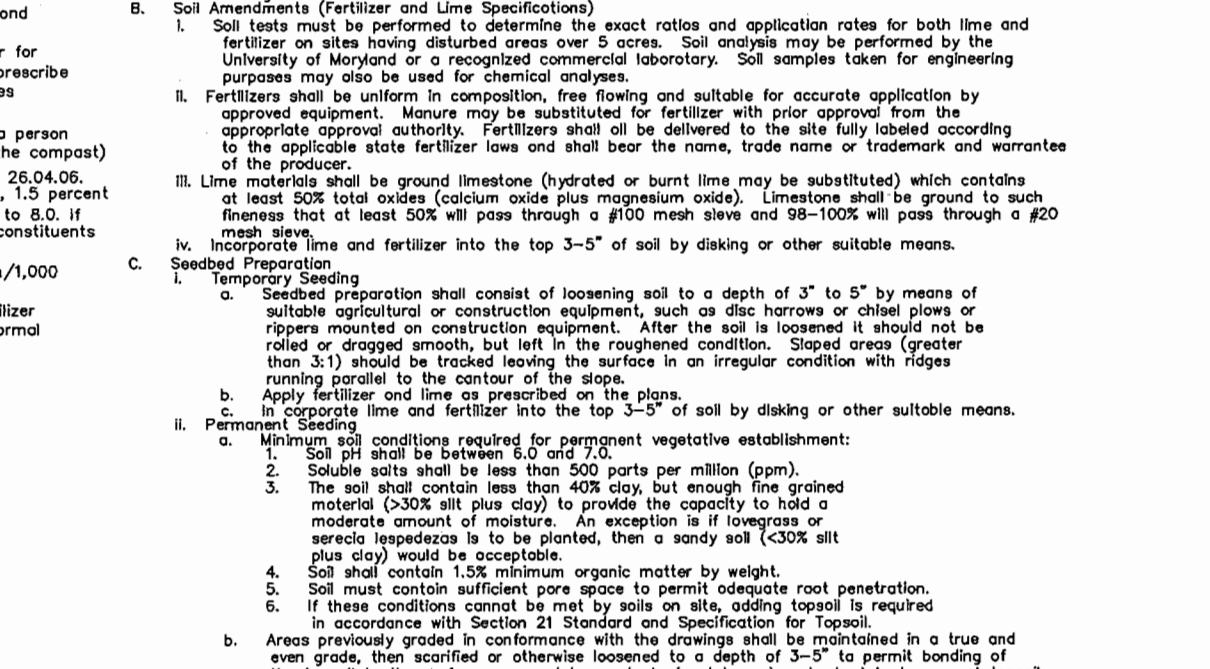
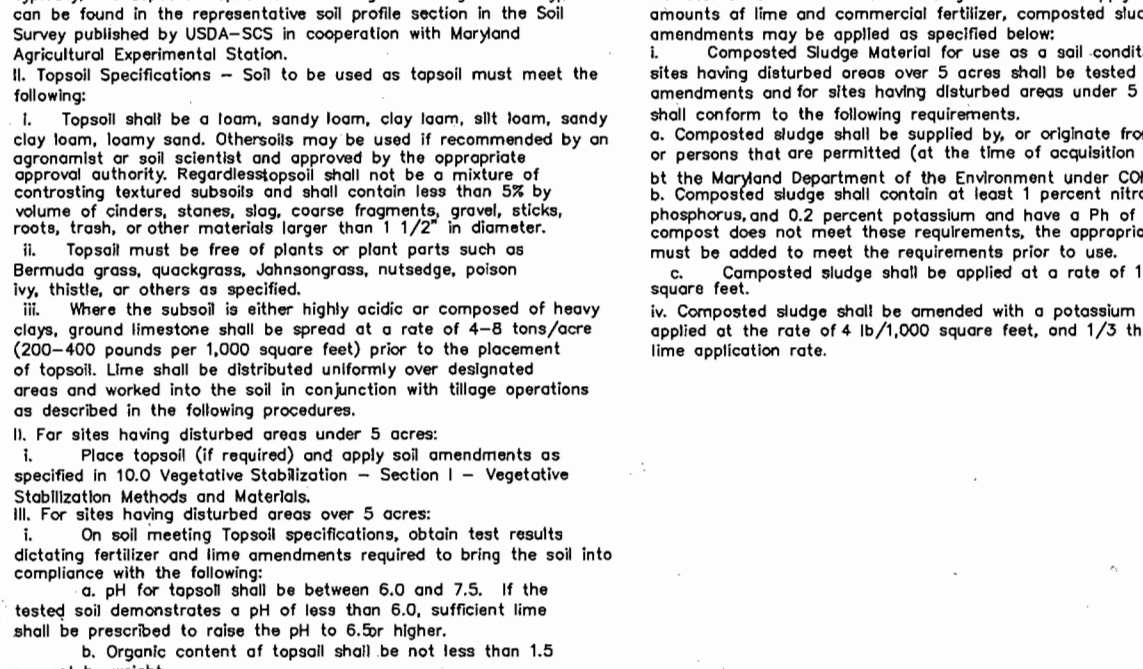
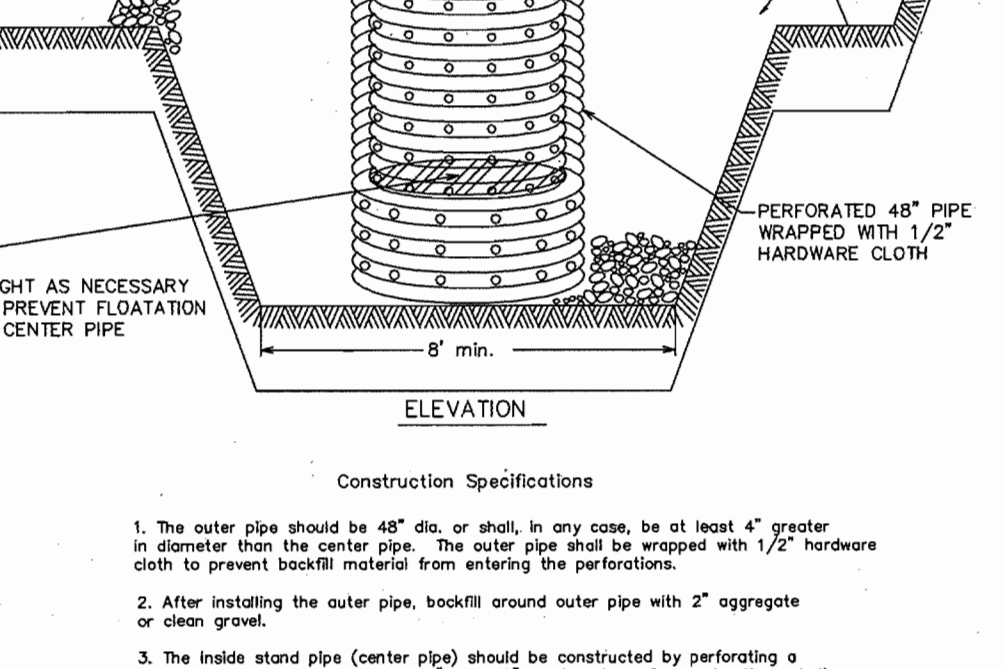
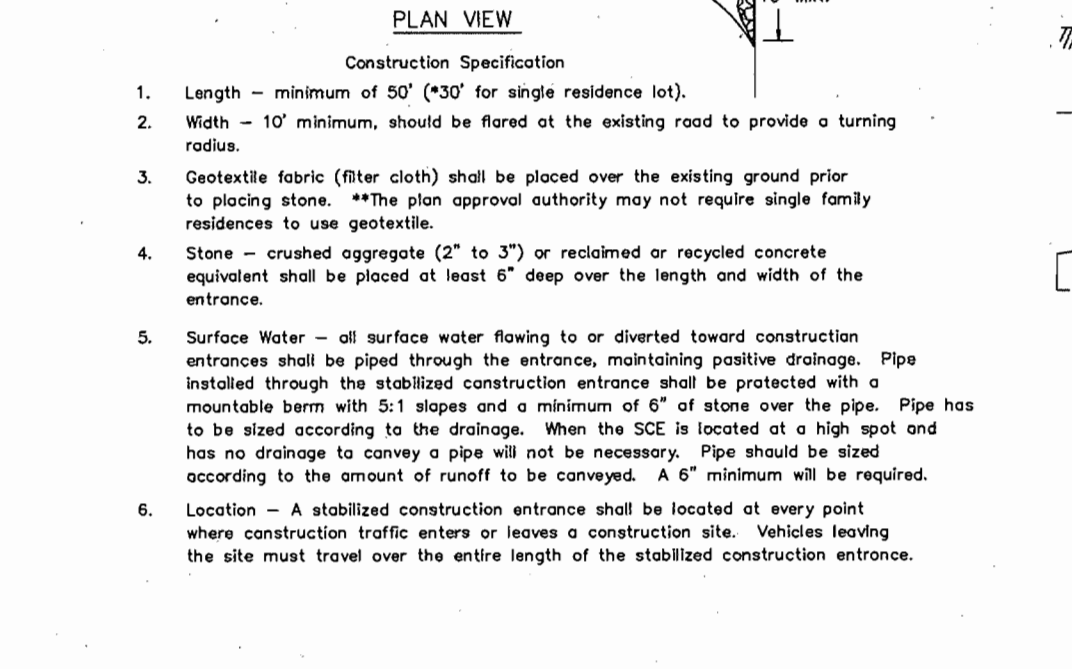
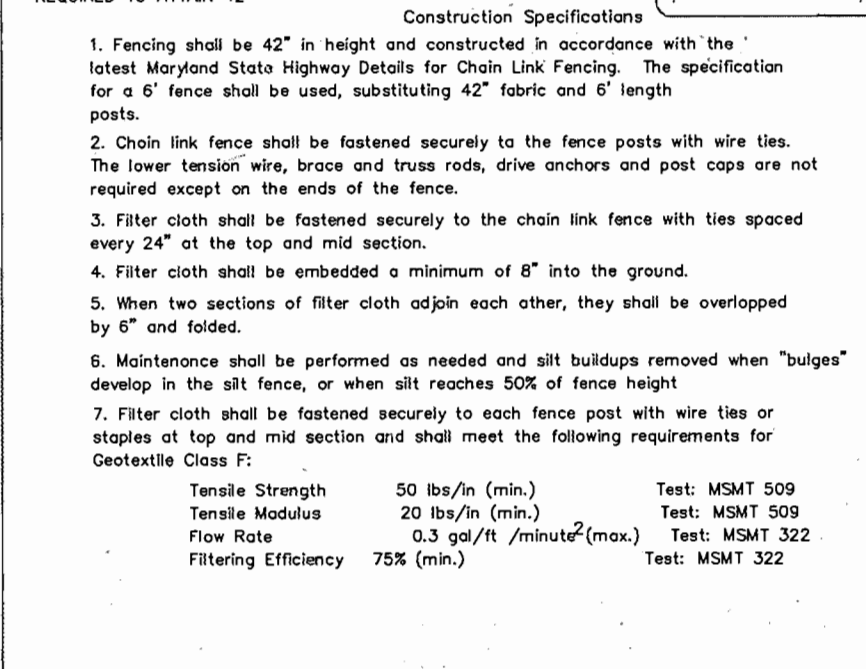
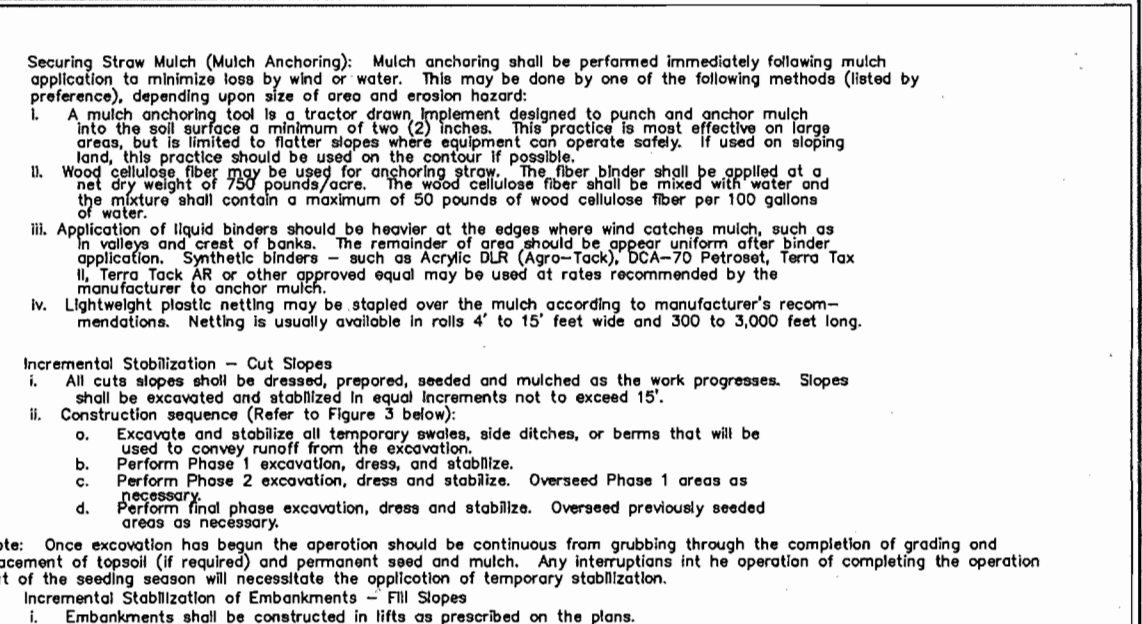
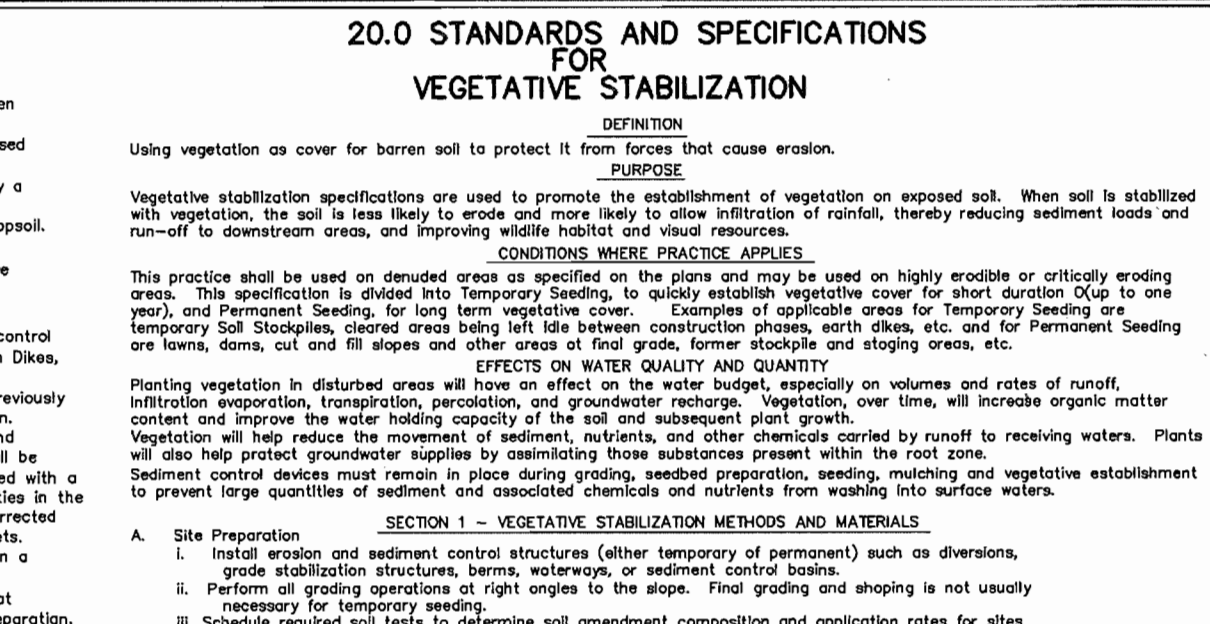
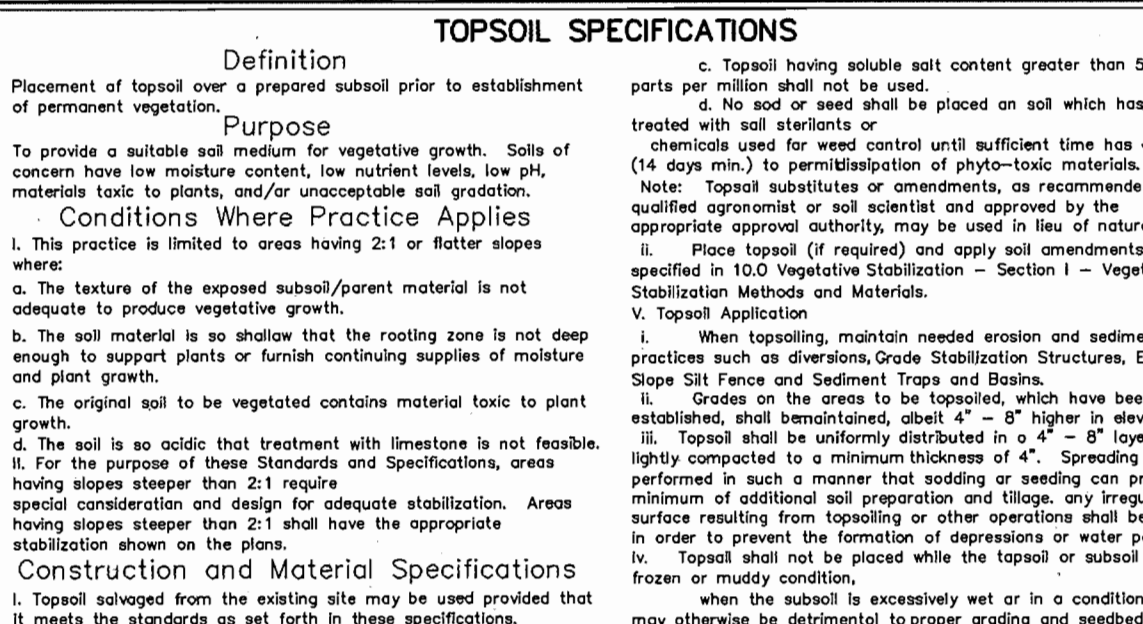
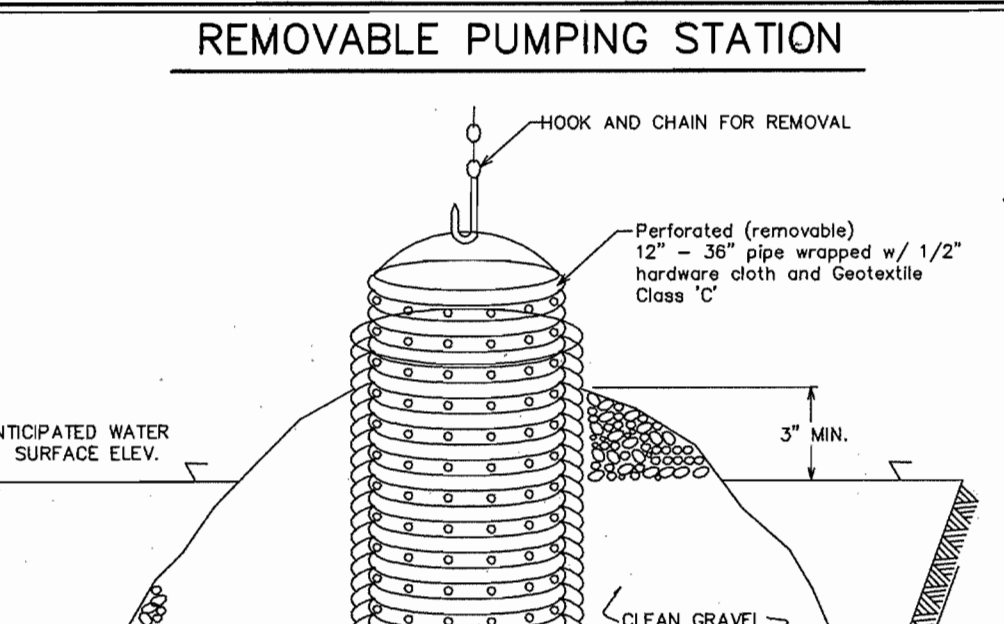
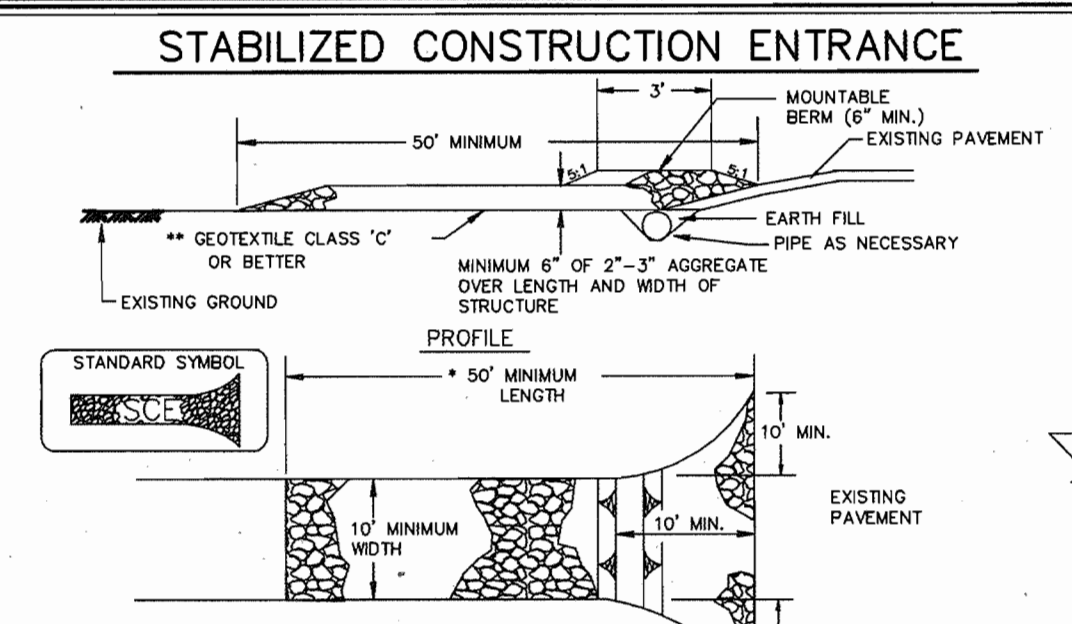
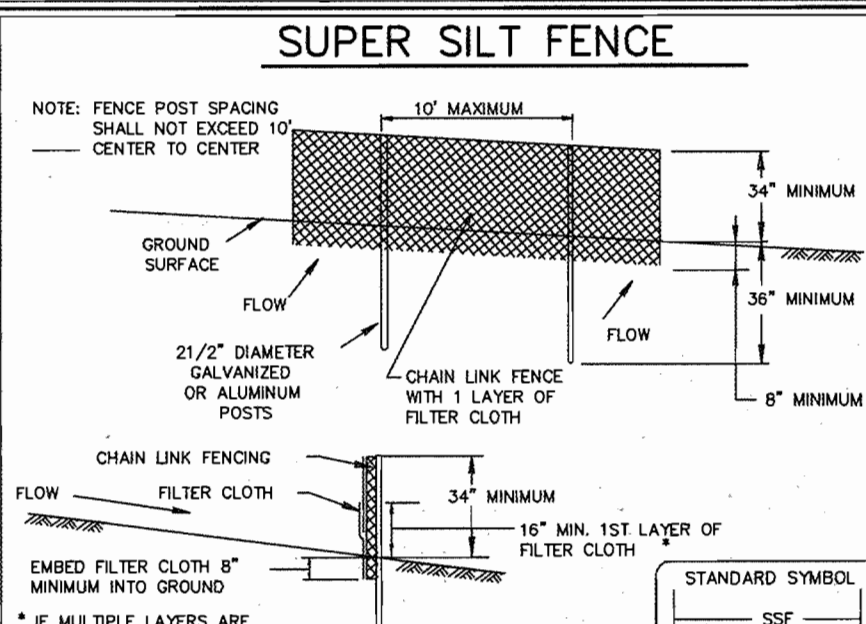
ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature of Engineer (Print name below signature) *John May* Date *8/9/01*

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Reviewed for HOWARD SCD and meets Technical Requirements.
U.S.D.A. Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
OWNER
ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
GLENWOOD, MARYLAND 21738
(410) 489-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Chief, Department of Engineering Division
Director, Department of Planning and Zoning
PROJECT: ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"
SECTION/AREA: N/A
LOT NO.: 1
PLAT REF.: 14893
BLOCK NO.: 16
ZONE: RC-DEO
TAX: 14
ELEC. DIST.: 4TH
CENSUS TR.: 6040
WATER CODE: PRIVATE
SEWER CODE: PRIVATE

STORMWATER MANAGEMENT PROFILES,
STORM DRAIN PROFILES AND DETAIL SHEET
ST. ANDREWS
EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1
TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 3 OF 8



REVISION

NO.	DATE	DESCRIPTION
1	7/5/02	REVISE SITE ANALYSIS TO REFLECT PAVING CHANGE

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

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OWNER

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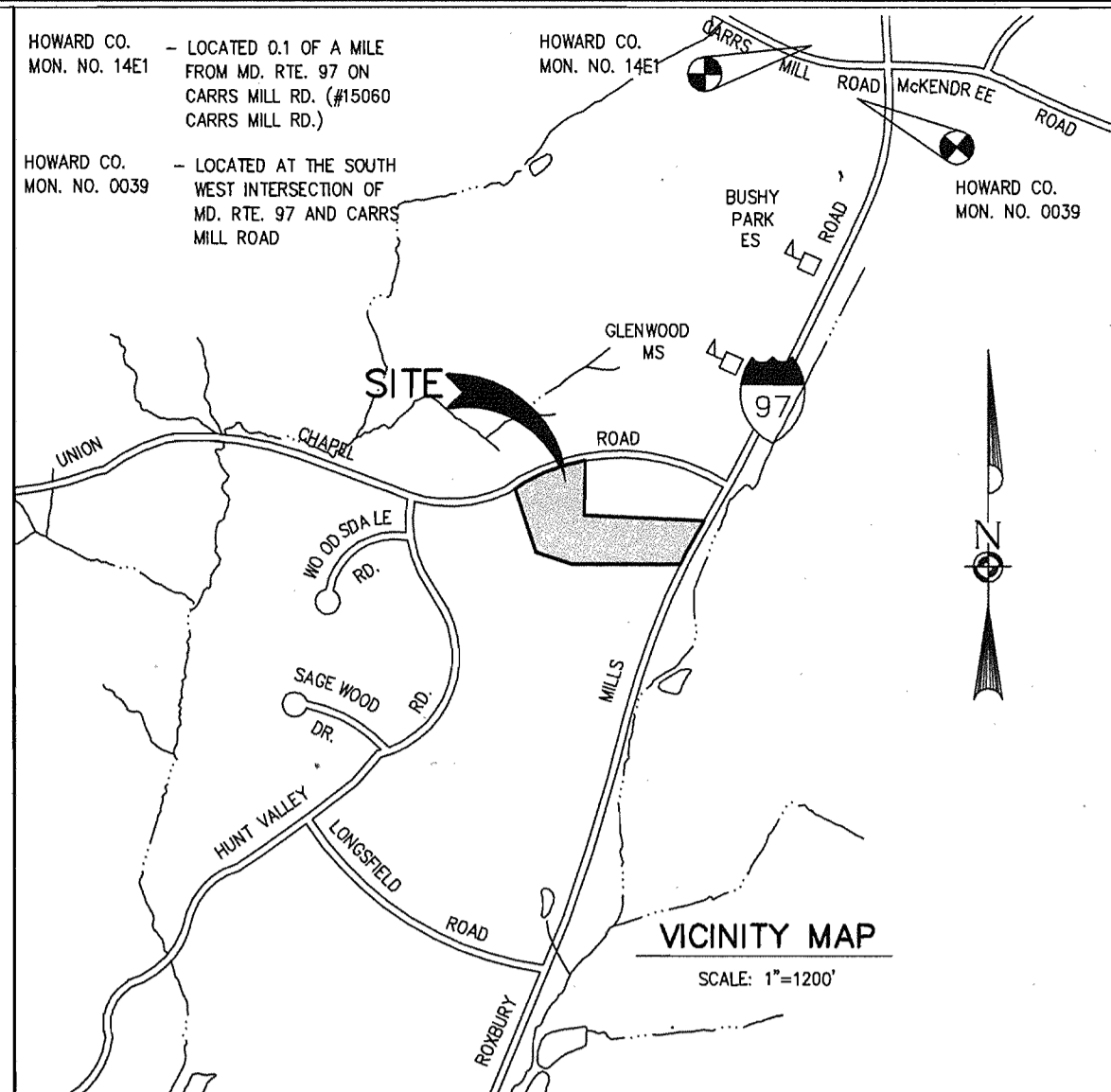
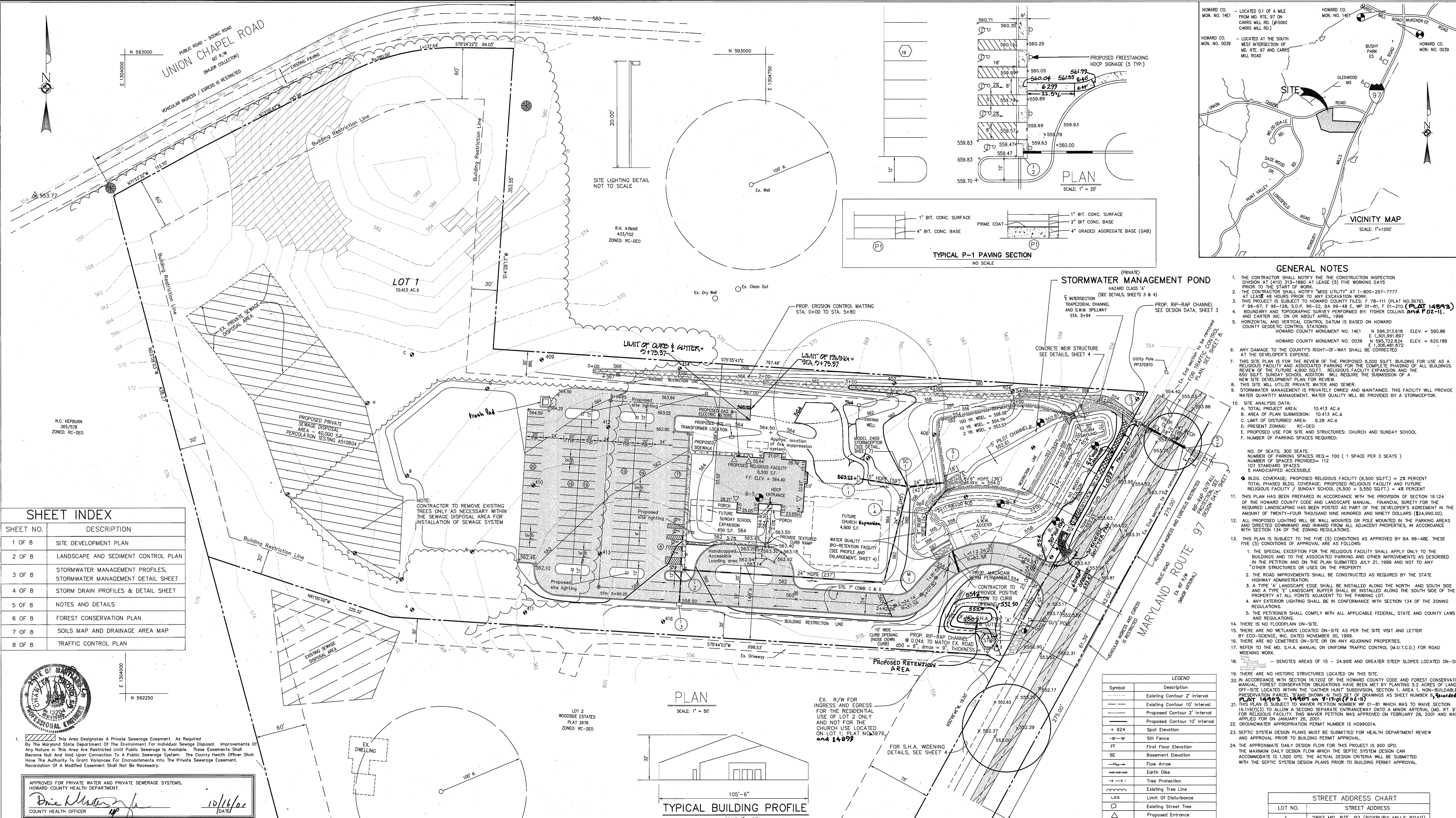
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Department of Land Development _____ Date 8/19/01
 Chief, Development Engineering Division _____ Date 9/7/01
 Director, Department of Planning and Zoning _____ Date 10/23/01

NOTES AND DETAILS

ST. ANDREWS EPISCOPAL CHURCH WOODSIDE ESTATES LOT 1

TAX MAP NO: 14 PARCEL NO: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 5 OF 8



- ### GENERAL NOTES
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F 78-111 (PLAT NO. 3976), F 98-87, F 98-126, S.D.P. 99-22, BA 99-48 E, WP 01-81, F 01-210, (PLAT NO. 14893) AND CARTER INC. ON DR ABOUT APRIL, 1998
 - HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD COUNTY GEODETIC CONTROL STATIONS.
 - HOWARD COUNTY MONUMENT NO. 14E1 N 566.213,618 ELEV. = 590.86
HOWARD COUNTY MONUMENT NO. 0039 N 595.722,834 ELEV. = 620.189 E 1,304,000
E 1,304,991,897
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 - THIS SITE PLAN IS FOR THE REVIEW OF THE PROPOSED 6,500 SQ.FT. BUILDING FOR USE AS A RELIGIOUS FACILITY AND ASSOCIATED PARKING FOR THE COMPLETE PHASING OF ALL BUILDINGS. REVIEW OF THE FUTURE 4,900 SQ.FT. RELIGIOUS FACILITY EXPANSION AND THE 650 SQ.FT. SUNDAY SCHOOL ADDITION WILL REQUIRE THE SUBMISSION OF A NEW SITE DEVELOPMENT PLAN FOR REVIEW.
 - THIS SITE WILL UTILIZE PRIVATE WATER AND SEWER.
 - STORMWATER MANAGEMENT IS PRIVATELY OWNED AND MAINTAINED. THIS FACILITY WILL PROVIDE WATER QUANTITY MANAGEMENT. WATER QUALITY WILL BE PROVIDED BY A STORMCCEPTOR.
 - SITE ANALYSIS DATA:
A. TOTAL PROJECT AREA: 10.413 AC.
B. AREA OF PLAN SUBMISSION: 10.413 AC.
C. LIMIT OF DISTURBED AREA: 6.28 AC.
D. PRESENT ZONING: RC-DEO
E. PROPOSED USE FOR SITE AND STRUCTURES: CHURCH AND SUNDAY SCHOOL
F. NUMBER OF PARKING SPACES REQUIRED:
NO. OF SEATS: 300 SEATS
NUMBER OF PARKING SPACES REQ. = 100 (1 SPACE PER 3 SEATS)
NUMBER OF SPACES PROVIDED = 112
107 STANDARD SPACES
5 HANDICAPPED ACCESSIBLE
 - BLDG. COVERAGE: PROPOSED RELIGIOUS FACILITY (6,500 SQ.FT.) = 2% PERCENT TOTAL PHASED BLDG. COVERAGE; PROPOSED RELIGIOUS FACILITY AND FUTURE RELIGIOUS FACILITY / SUNDAY SCHOOL (6,500 + 4,900 SQ.FT.) = 4% PERCENT
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISION OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF TWENTY-FOUR THOUSAND NINE HUNDRED AND NINETY DOLLARS (\$24,990.00).
 - ALL PROPOSED LIGHTING WILL BE WALL MOUNTED OR POLE MOUNTED IN THE PARKING AREAS AND DIRECTED DOWNWARD AND INWARD FROM ALL ADJACENT PROPERTIES, IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS.
 - THIS PLAN IS SUBJECT TO THE FIVE (5) CONDITIONS AS APPROVED BY BA 99-48E. THESE FIVE (5) CONDITIONS OF APPROVAL ARE AS FOLLOWS:
1. THE SPECIAL EXCEPTION FOR THE RELIGIOUS FACILITY SHALL APPLY ONLY TO THE BUILDINGS AND TO THE ASSOCIATED PARKING AND OTHER IMPROVEMENTS AS DESCRIBED IN THE PETITION AND ON THE PLAN SUBMITTED JULY 21, 1999 AND NOT TO ANY OTHER STRUCTURES OR USES ON THE PROPERTY.
2. THE ROAD IMPROVEMENTS SHALL BE CONSTRUCTED AS REQUIRED BY THE STATE HIGHWAY ADMINISTRATION.
3. A TYPE "A" LANDSCAPE EDGE SHALL BE INSTALLED ALONG THE NORTH AND SOUTH SIDE AND A TYPE "C" LANDSCAPE BUFFER SHALL BE INSTALLED ALONG THE SOUTH SIDE OF THE PROPERTY AT ALL POINTS ADJACENT TO THE PARKING LOT.
4. ANY EXTERIOR LIGHTING SHALL BE IN CONFORMANCE WITH SECTION 134 OF THE ZONING REGULATIONS.
5. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.
 - THERE IS NO FLOODPLAIN ON-SITE.
 - THERE ARE NO METALS LOCATED ON-SITE AS PER THE SITE VISIT AND LETTER BY ECO-SCIENCE, INC. DATED NOVEMBER 30, 1999.
 - THERE ARE NO CEMETRIES ON-SITE OR ON ANY ADJACENT PROPERTIES.
 - REFER TO THE MD. S.H.A. MANUAL ON UNIFORM TRAFFIC CONTROL (M.U.T.C.D.) FOR ROAD WORKING WORK.
 - DENOTES AREAS OF 15 - 24.99% AND GREATER STEEP SLOPES LOCATED ON-SITE.
 - THERE ARE NO HISTORIC STRUCTURES LOCATED ON THIS SITE.
 - IN ACCORDANCE WITH SECTION 16.102 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, FOREST CONSERVATION OBLIGATIONS HAVE BEEN MET BY PLANTING 5.2 ACRES OF LAND OFF-SITE LOCATED WITHIN THE "GARDNER HUNT" SUBDIVISION, SECTION 1, AREA 1, NON-BUILDABLE PRESERVATION PARCEL, SHOWN IN THIS SET OF DRAWINGS AS SHEET NUMBER 5, REAR 14893, PLAT 14893 - 14897 ON 4-17-01 (F02-11).
 - THIS PLAN IS SUBJECT TO WAIVER PETITION NUMBER WP 01-81 WHICH WAS TO WAIVE SECTION 16.119(C) TO ALLOW A SECOND SEPARATE ENTRANCEWAY ONTO A MINOR ARTERIAL (MD. RT. 97) FOR RELIGIOUS FACILITY. THIS WAIVER PETITION WAS APPROVED ON FEBRUARY 28, 2001 AND WAS APPLIED FOR ON JANUARY 26, 2001.
 - GROUNDWATER APPROPRIATION PERMIT NUMBER IS H0990014.
 - SEPTIC SYSTEM DESIGN PLANS MUST BE SUBMITTED FOR HEALTH DEPARTMENT REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT APPROVAL.
 - THE APPROXIMATE DAILY DESIGN FLOW FOR THIS PROJECT IS 800 GPD.
THE MAXIMUM DAILY DESIGN FLOW WHICH THE SEPTIC SYSTEM DESIGN CAN ACCOMMODATE IS 1,500 GPD. THE ACTUAL DESIGN CRITERIA WILL BE SUBMITTED WITH THE SEPTIC SYSTEM DESIGN PLANS PRIOR TO BUILDING PERMIT APPROVAL.

SHEET INDEX

SHEET NO.	DESCRIPTION
1 OF 8	SITE DEVELOPMENT PLAN
2 OF 8	LANDSCAPE AND SEDIMENT CONTROL PLAN
3 OF 8	STORMWATER MANAGEMENT PROFILES, STORMWATER MANAGEMENT DETAIL SHEET
4 OF 8	STORM DRAIN PROFILES & DETAIL SHEET
5 OF 8	NOTES AND DETAILS
6 OF 8	FOREST CONSERVATION PLAN
7 OF 8	SOILS MAP AND DRAINAGE AREA MAP
8 OF 8	TRAFFIC CONTROL PLAN



1. This Area Designates A Private Sewerage Easement As Required By The Maryland State Department Of The Environment For Individual Sewerage Disposal. Improvements Of Any Nature In This Area Are Restricted Until Public Sewerage Is Available. These Easements Shall Become Null And Void Upon Connection To A Public Sewerage System. The County Health Officer Shall Have The Authority To Grant Variances For Encroachments Into The Private Sewerage Easement. Recordation Of A Modified Easement Shall Not Be Necessary.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Jim May
COUNTY HEALTH OFFICER

10/16/02
DATE

FISHER, COLLINS & CARTER, INC.
ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELIOTT CITY, MARYLAND 21042
(410) 461 - 2855

REVISION	DATE	DESCRIPTION
1	7/5/02	REVISE PAVING LIMIT AND GRADING TO I-1
2	10/25/02	ADD PROPOSED RETENTION AREA & CURB OPENING W/ CHANNEL TO ALLEVIATE STANDING WATER ISSUE. REVISE HANDCAP ACCESS FROM PARKING AREA.

ENGINEER'S CERTIFICATE

I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Jim May
Signature of Engineer (print name below signature)

8/9/01
Date

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all 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 also authorize periodic on-site inspection by the Howard Soil Conservation District.

Jim May
Signature of Developer (print name below signature)

8/9/01
Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jim May
U.S.D.A. - Natural Resources Conservation Service
Date: 9/4/01

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Jim May
Howard SCD
Date: 9/4/01

DEVELOPER/OWNER

ST. ANDREWS EPISCOPAL CHURCH
RTE. 97 & UNION CHAPEL ROAD
P.O. BOX 52
GLENWOOD, MARYLAND 21738
(410) 489-4635

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Jim May
Director, Department of Planning and Zoning
Date: 10/27/02

Jim May
Chief, Division of Land Development
Date: 10/19/01

Jim May
Chief, Development Engineering Division
Date: 9/17/01

SUBDIVISION	SECTION/AREA	LOT NO.
ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	N/A	1

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

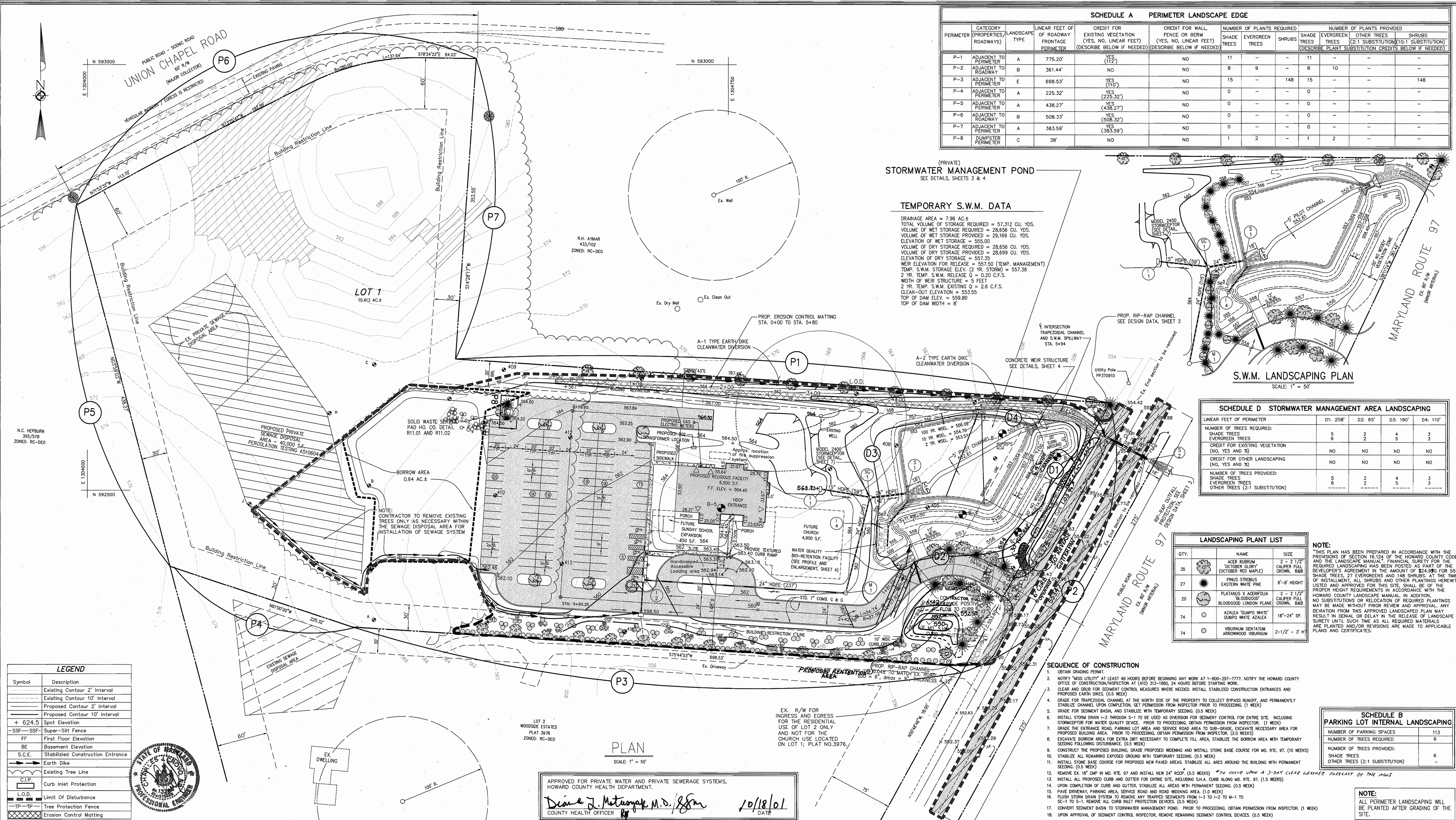
WATER CODE	SEWER CODE
PRIVATE	PRIVATE

SITE DEVELOPMENT PLAN

ST. ANDREWS EPISCOPAL CHURCH

WOODSIDE ESTATES LOT 1

TAX MAP No: 14 PARCEL No: 216
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST 8, 2001
SHEET 1 OF 8

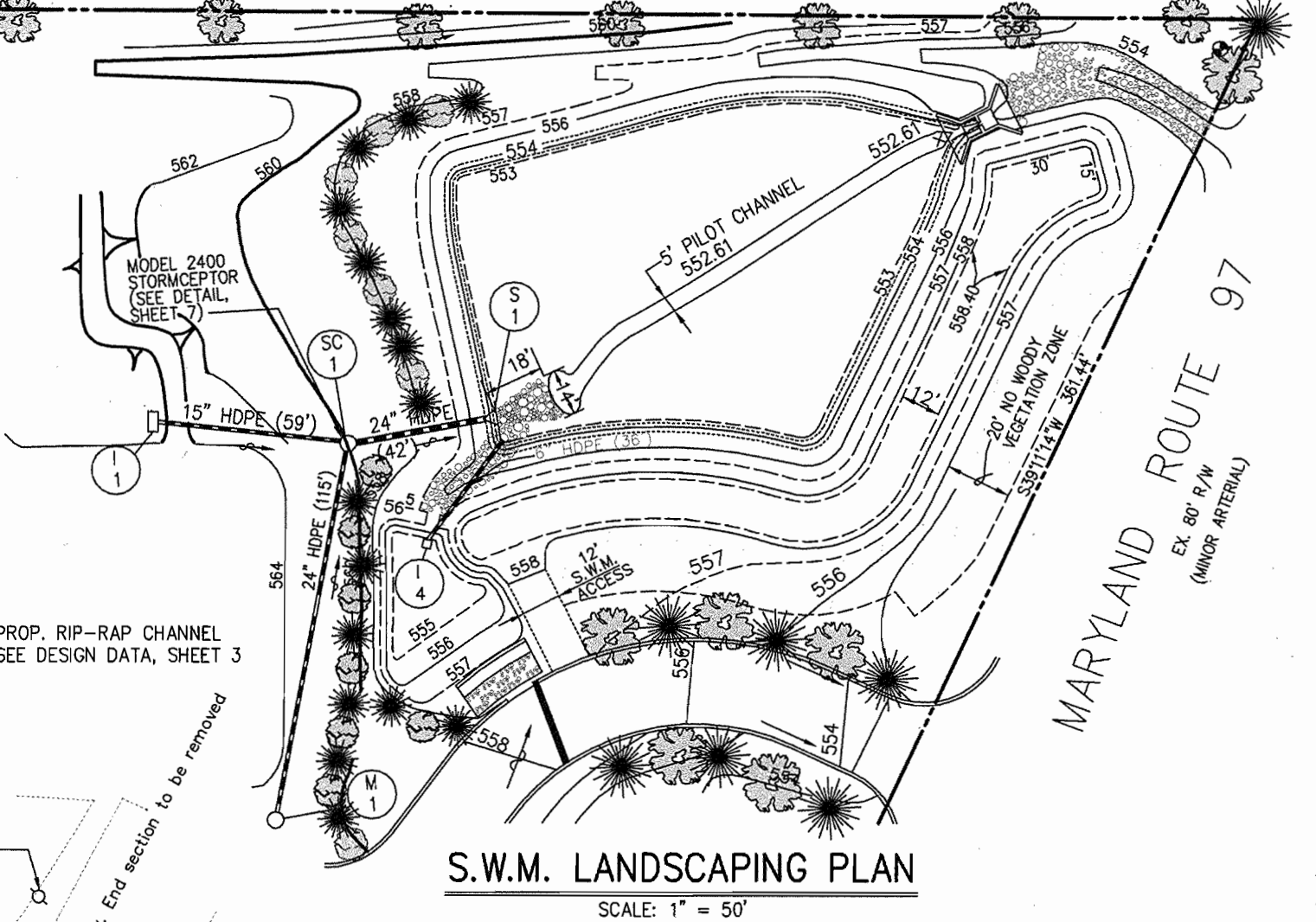


PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED			NUMBER OF PLANTS PROVIDED		
						SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES (2:1 SUBSTITUTION)	EVERGREEN TREES (2:1 SUBSTITUTION)	SHRUBS (10:1 SUBSTITUTION)
P-1	ADJACENT TO PERIMETER	A	775.20'	YES (112')	NO	11	-	-	11	-	-
P-2	ADJACENT TO ROADWAY	B	361.44'	NO	NO	8	9	-	8	10	-
P-3	ADJACENT TO PERIMETER	E	698.53'	YES (110')	NO	15	-	148	15	-	148
P-4	ADJACENT TO PERIMETER	A	225.32'	YES (225.32')	NO	0	-	-	0	-	-
P-5	ADJACENT TO PERIMETER	A	438.27'	YES (438.27')	NO	0	-	-	0	-	-
P-6	ADJACENT TO ROADWAY	B	508.33'	YES (508.32')	NO	0	-	-	0	-	-
P-7	ADJACENT TO PERIMETER	A	383.59'	YES (383.59')	NO	0	-	-	0	-	-
P-8	DRAINAGE PERIMETER	C	38'	NO	NO	1	2	-	1	2	-

STORMWATER MANAGEMENT POND
SEE DETAILS, SHEETS 3 & 4

TEMPORARY S.W.M. DATA

DRAINAGE AREA = 7.96 AC ±
 TOTAL VOLUME OF STORAGE REQUIRED = 57,312 CU. YDS.
 VOLUME OF WET STORAGE REQUIRED = 28,656 CU. YDS.
 VOLUME OF WET STORAGE PROVIDED = 29,169 CU. YDS.
 ELEVATION OF WET STORAGE = 553.00
 VOLUME OF DRY STORAGE REQUIRED = 28,656 CU. YDS.
 VOLUME OF DRY STORAGE PROVIDED = 28,699 CU. YDS.
 ELEVATION OF DRY STORAGE = 557.35
 WEIR ELEVATION FOR RELEASE = 557.50 (TEMP. MANAGEMENT)
 TEMP. S.W.M. STORAGE ELEV. (2 YR. STORM) = 557.38
 2 YR. TEMP. S.W.M. RELEASE Q = 0.20 C.F.S.
 WIDTH OF WEIR STRUCTURE = 5 FEET
 2 YR. TEMP. S.W.M. EXISTING Q = 2.6 C.F.S.
 CLEAN-OUT ELEVATION = 553.55
 TOP OF DAM ELEV. = 559.80
 TOP OF DAM WIDTH = 8'



SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

LINEAR FEET OF PERIMETER	D1: 258'	D2: 65'	D3: 190'	D4: 110'
NUMBER OF TREES REQUIRED:				
SHADE TREES	5	2	4	3
EVERGREEN TREES	6	2	5	3
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	NO	NO	NO	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	NO	NO	NO	NO
NUMBER OF TREES PROVIDED:				
SHADE TREES	5	2	4	3
EVERGREEN TREES	6	2	5	3
OTHER TREES (2:1 SUBSTITUTION)	-	-	-	-

LANDSCAPING PLANT LIST

QTY.	NAME	SIZE
35	ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, 888
27	FRAXINUS STROBUS EASTERN WHITE PINE	6'-8" HEIGHT
20	PLATANUS ACERIFOLIA 'BLOODGOOD' BLOODGOOD LONDON PLANE	2 - 2 1/2" CALIPER FULL CROWN, 888
74	AZALEA 'GAMBO WHITE' GAMBO WHITE AZALEA	18"-24" SP.
74	YBURNUM DENTATUM ARROWWOOD YBURNUM	2-1/2" - 3" H

NOTE:
 THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$24,900 FOR 55 SHADE TREES, 27 EVERGREENS AND 148 SHRUBS. AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREIN LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL. ANY DEVIATION FROM THIS APPROVED LANDSCAPING PLAN MAY RESULT IN DENIAL, OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.

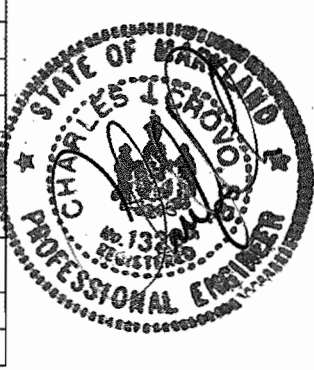
SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	113
NUMBER OF TREES REQUIRED:	6
NUMBER OF TREES PROVIDED:	6
SHADE TREES (2:1 SUBSTITUTION)	-
OTHER TREES (2:1 SUBSTITUTION)	-

NOTE:
 ALL PERIMETER LANDSCAPING WILL BE PLANTED AFTER GRADING OF THE SITE.

LEGEND

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624.5	Spot Elevation
-SSP-SSP	Super-Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
S.C.E.	Stabilized Construction Entrance
---	Earth Dike
---	Existing Tree Line
C.I.P.	Curb Inlet Protection
L.O.D.	Limit of Disturbance
TP-TP	Tree Protection Fence
---	Erosion Control Matting



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
 Diane J. Metzger, M.D., RSM
 COUNTY HEALTH OFFICER
 10/18/01
 DATE

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer (Print name below signature) _____ Date 8/9/01

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer (Print name below signature) _____ Date 8/9/01

Reviewed for HOWARD SCD and meets Technical Requirements.
 Diana Reyes/et
 U.S.D.A. Natural Resources Conservation Service
 Date 9/4/01

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Date 9/4/01

OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 52
 GLENWOOD, MARYLAND 21738
 (410) 489-4035

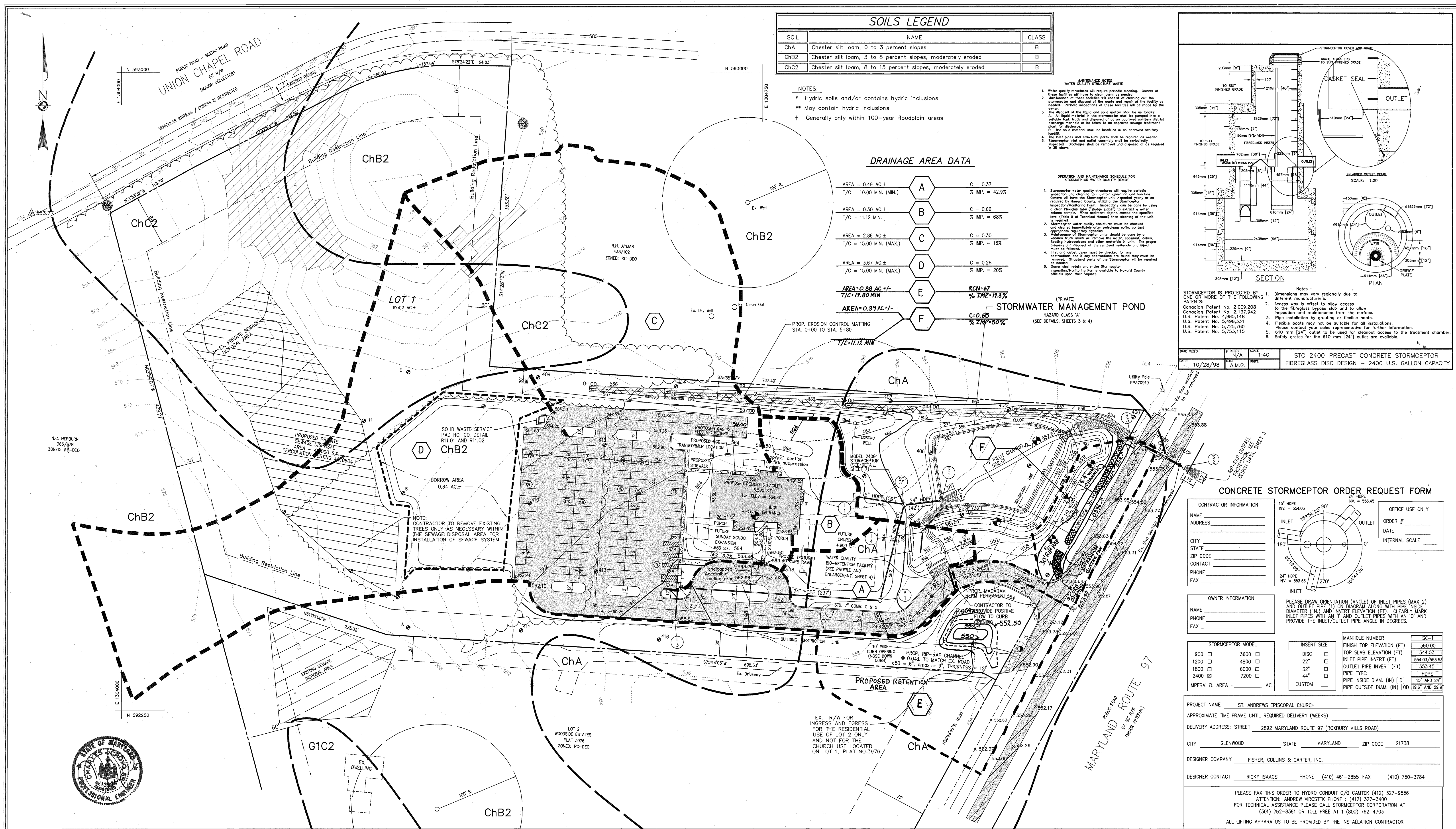
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Cindy Aronoff
 Chief, Department of Planning and Zoning
 Date 10/19/01

Approved: Department of Planning and Zoning
 Date 10/23/01

PROJECT	SECTION/AREA	LOT NO.			
ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES"	N/A	1			
PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
148493	16	RC-DEO	14	4TH	6040
WATER CODE	SEWER CODE	PRIVATE			

LANDSCAPE AND SEDIMENT CONTROL PLAN
ST. ANDREWS EPISCOPAL CHURCH
 WOODSIDE ESTATES LOT 1
 TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 2 OF 8

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855



SOILS LEGEND

SOIL	NAME	CLASS
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B

NOTES:
 * Hydric soils and/or contains hydric inclusions
 ** May contain hydric inclusions
 † Generally only within 100-year floodplain areas

DRAINAGE AREA DATA

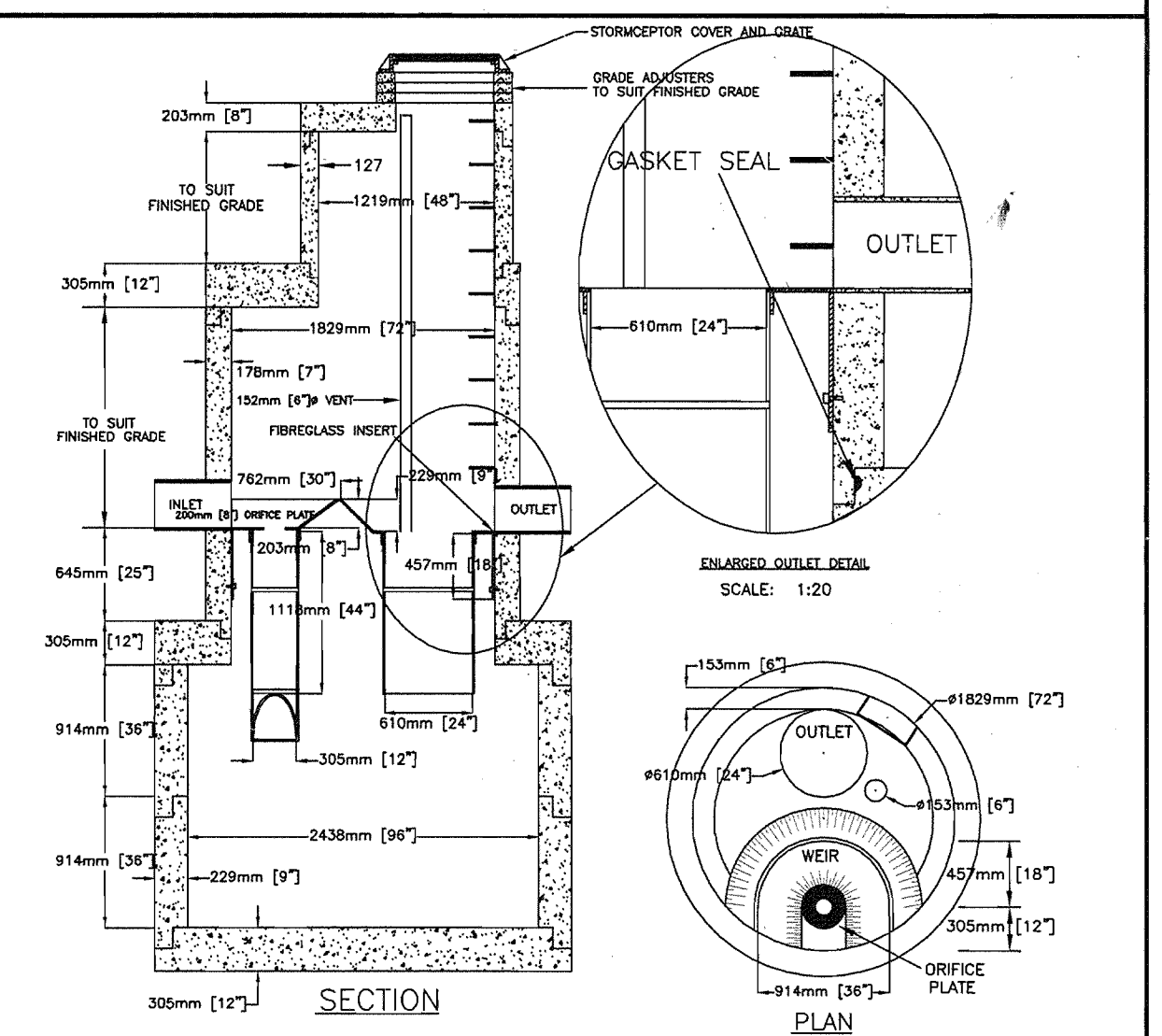
AREA = 0.49 AC ±	A	C = 0.37
T/C = 10.00 MIN. (MIN.)		% IMP. = 42.9%
AREA = 0.30 AC ±	B	C = 0.66
T/C = 11.12 MIN.		% IMP. = 68%
AREA = 2.86 AC ±	C	C = 0.30
T/C = 15.00 MIN. (MAX.)		% IMP. = 18%
AREA = 3.67 AC ±	D	C = 0.28
T/C = 15.00 MIN. (MAX.)		% IMP. = 20%
AREA = 0.88 AC ±	E	RCN = 67
T/C = 17.80 MIN.		% IMP. = 17.3%
AREA = 0.37 AC ±	F	C = 0.65
		% IMP. = 50%

STORMWATER MANAGEMENT POND

HAZARD CLASS 'A'
(SEE DETAILS, SHEETS 3 & 4)

OPERATION AND MAINTENANCE SCHEDULE FOR STORMWATER QUALITY STRUCTURE

- Stormwater water quality structures will require periodic inspection and cleaning to maintain operation and function. Owners will have the Stormwater unit inspected yearly or as required by Howard County, utilizing the Stormwater Inspection/Monitoring Form. Inspections can be done by using a clear Plexiglas tube (4" dia pipe) to extract a water column sample. When sediment depth exceeds the specified level (Type 9 of Technical Manual) then cleaning of the unit is required.
- Stormwater water quality structures must be checked and cleaned immediately after petroleum spills, contact with hazardous materials, or other pollutants. Contact the Stormwater unit manufacturer for cleaning instructions.
- Maintenance of Stormwater units should be done by a person trained in the proper cleaning and maintenance of these units. The proper cleaning and disposal of the removed materials and debris must be followed.
- Man and animal pipes must be checked for any obstructions and if any obstructions are found they must be removed. Structural parts of the Stormwater unit as required.
- Owner shall retain and make Stormwater unit available to Howard County officials upon their request.



STORMWATER IS PROTECTED BY ONE OR MORE OF THE FOLLOWING PATENTS:
 Canadian Patent No. 2,009,208
 Canadian Patent No. 2,137,842
 U.S. Patent No. 4,985,149
 U.S. Patent No. 5,498,331
 U.S. Patent No. 5,725,760
 U.S. Patent No. 5,753,115

Notes:
 1. Dimensions may vary regionally due to different manufacturer's.
 2. Access way is offset to allow access to the Fiberglass bypass slab and to allow inspection and maintenance from the surface.
 3. Pipe installation by grouting or flexible boots.
 4. Flexible boots may not be suitable for all installations.
 5. Please contact your sales representative for further information.
 6. 610 mm [24"] outlet to be used for cleanout access to the treatment chamber. Safety grates for the 610 mm [24"] outlet are available.

DATE	REVISED	BY	SCALE
10/28/98		A.M.G.	1:40

STC 2400 PRECAST CONCRETE STORMCEPTOR
 FIBREGLASS DISC DESIGN - 2400 U.S. GALLON CAPACITY

CONCRETE STORMCEPTOR ORDER REQUEST FORM

CONTRACTOR INFORMATION

NAME _____
 ADDRESS _____
 CITY _____ STATE _____
 ZIP CODE _____ CONTACT _____
 PHONE _____ FAX _____

OWNER INFORMATION

NAME _____
 PHONE _____ FAX _____

STORMCEPTOR MODEL

900	3600	DISC
1200	4800	22"
1800	6000	32"
2400	7200	44"
IMPERV. D. AREA =	AC.	CUSTOM

MANHOLE NUMBER

SC-1	FINISH TOP ELEVATION (FT)	560.00
	TOP SLAB ELEVATION (FT)	544.53
	INLET PIPE INVERT (FT)	554.03/553.53
	OUTLET PIPE INVERT (FT)	553.45
	PIPE TYPE:	HDPE
	PIPE INSIDE DIAM. (IN) [ID]	18" AND 24"
	PIPE OUTSIDE DIAM. (IN) [OD]	18.75" AND 24.75"

PROJECT NAME ST. ANDREWS EPISCOPAL CHURCH
APPROXIMATE TIME FRAME UNTIL REQUIRED DELIVERY (WEEKS) _____
DELIVERY ADDRESS: STREET 2892 MARYLAND ROUTE 97 (ROXBURY MILLS ROAD)
CITY GLENWOOD **STATE** MARYLAND **ZIP CODE** 21738
DESIGNER COMPANY FISHER, COLLINS & CARTER, INC.
DESIGNER CONTACT RICKY ISAACS **PHONE** (410) 461-2855 **FAX** (410) 750-3784

PLEASE FAX THIS ORDER TO HYDRO CONDUIT C/O CAMTEK (412) 327-9556
 ATTENTION: ANDREW VROSTEK PHONE: (412) 327-3460
 FOR TECHNICAL ASSISTANCE PLEASE CALL STORMCEPTOR CORPORATION AT
 (301) 762-8361 OR TOLL FREE AT 1 (800) 762-4703
 ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855

DATE	REVISION
7/9/02	REVISE PAVING LIMIT AND GRADING TO I-1
10/25/02	ADD PROPOSED RETENTION AREA & CURB OPENING WICHANNEL TO ALLEVIATE STANDING WATER ISSUE. ADD ADDITIONAL (2) DRAINAGE AREAS FOR NEW FACILITIES TO ALLEVIATE STANDING WATER ISSUE. REVISE HANDICAP ACCESS FROM PARKING AREA.

ENGINEER'S CERTIFICATE
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer (Print name below signature) _____ Date 8/9/01

DEVELOPER'S CERTIFICATE
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 Signature of Developer (Print name below signature) _____ Date 8/9/01

Reviewed for HOWARD SCD and meets Technical Requirements.
 U.S.D.A.-Natural Resources Conservation Service
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature _____ Date _____
 Howard SCD

OWNER
 ST. ANDREWS EPISCOPAL CHURCH
 RTE. 97 & UNION CHAPEL ROAD
 P.O. BOX 32
 GLENWOOD, MARYLAND 21738
 (410) 469-4035

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Planning and Development _____ Date 10/14/01
 Chief, Development Engineering Division _____ Date 9/10/01
 Director, Department of Planning and Zoning _____ Date 10/23/01

PLAT REF.	BLOCK NO.	ZONE	TAX	ELEC. DIST.	CENSUS TR.
14893	16	RC-DEO	14	4TH	6040

PROJECT: ST. ANDREWS EPISCOPAL CHURCH "WOODSIDE ESTATES" SECTION/AREA: N/A LOT No: 1
 WATER CODE: PRIVATE SEWER CODE: PRIVATE

SOILS MAP AND DRAINAGE AREA MAP
ST. ANDREWS EPISCOPAL CHURCH
WOODSIDE ESTATES
LOT 1
 TAX MAP No: 14 PARCEL No: 216
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST 8, 2001
 SHEET 7 OF 8