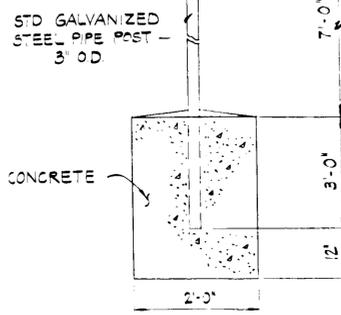


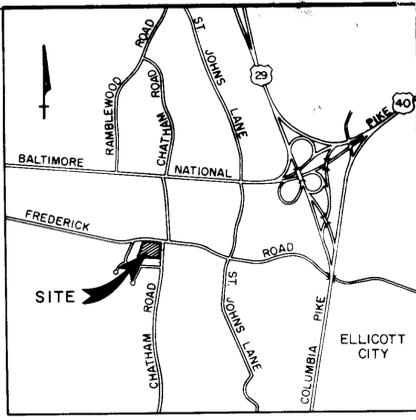
PURSUANT TO HOWARD COUNTY COUNCIL BILL 58-84



SEE RT-8, PAGE 28-24 MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES



HANDICAPPED PARKING SIGN DETAIL NOT TO SCALE

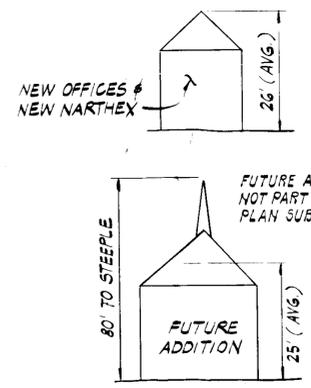


VICINITY MAP SCALE: 1" = 2000'

GENERAL NOTES

- TAX MAP 24 - PARCEL 135
- EXISTING ZONING R-20 3A CASE NO 86-05E
- DEED REFERENCE LIBER 229, FOLIO 352
- AREA 5.647 ACRES
- AREA OF EX BUILDINGS 13,538 SF / 5.5%
- AREA OF PROP BUILDINGS 2,860 SF / 2%
- TOTAL BUILDING COVERAGE 16,398 SF / 6.7%
- AREA OF NEW PARKING LOT 38,745 SF
- AREA PERCENTAGE OF LANDSCAPED ISLANDS 12,582 SF / 33%
- EXISTING SEATING CAPACITY 240
- PROPOSED SEATING CAPACITY 0
- TOTAL SEATING CAPACITY 240
- PARKING REQUIREMENTS REQUIRED: 1 SPACE PER 6 SEATS 240 - 3 = 80 SPACES
- EXISTING 81 SPACES
- PROPOSED 82
- TOTAL PROVIDED 169 SPACES (INCL 8 HANDICAP SPACES)
- EXTERIOR LIGHTING TO BE CIRCUITED VIA TIME CLOCK IN SERIES WITH EXTERIOR MOUNTED (NORTH WALL) PHOTOCELL: NEW EMCO LIGHTING (INFINISQUARE POLE SIDE MTD ON ONE ARM TYPE III DISTRIBUTION 150W HPS LAMP, 208 VOLT BALLAST, DARK BRONZE FINISH 14 POLE EMCO # SHD-III-150 - HPS - 208V - PC-DB-SSA-14-DB (TYPICAL FOR 8)

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 7-8-87



SCHEMATIC BUILDING PROFILES NOT TO SCALE

NO.	ADD ADDITIONAL PARKING SPACES SOUTH END OF LOT	9/82/88
1	DESCRIPTION	DATE
REVISIONS		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT		
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
CHIEF BUREAU OF ENGINEERING		

PARCEL NO.	STREET ADDRESS	WATER CODE	SEWER CODE
135	3604 CHATHAM ROAD	FO7	5753700

PURDUM & JESCHKE
CONSULTING ENGINEERS AND LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT:
EDWARD ZIEGLER, CHAIRMAN
BUILDING COMMITTEE
FIRST EVANGELICAL LUTHERAN CHURCH
3604 CHATHAM ROAD
ELLICOTT CITY, MD 21043

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC OFF-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY
2ND ELECTION DISTRICT HOWARD COUNTY, MD.
TAX MAP NO. 24 PARCEL 135
DATE: JUNE 5, 1987 SCALE: 1" = 30'

SITE DEVELOPMENT PLAN
SHEET 1 OF 6
DES: GAP, REC
DRAWN: ARW, REC
CHK: RHB



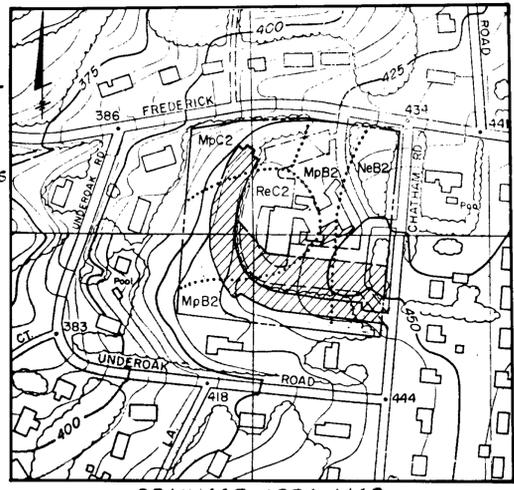
FREDERICK ROAD (COUNTY ROAD)

CHATHAM ROAD (COUNTY ROAD)

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- SEDIMENT TRAP
- DEWATERING DEVICE

ALL SOILS ARE GROUP "B"
 STORMWATER MNGMT DRAINAGE AREA 2.043 ACRES
 EXISTING DRAINAGE AREA (PROPERTY LINE) 5.6 ACRES



DRAINAGE AREA MAP SCALE 1" = 200'

STONE OUTLET SEDIMENT TRAP HOWARD COUNTY STY

DRAINAGE AREA	2.6 Ac
STORAGE REQUIRED	4680 cu ft
STORAGE PROVIDED	6600 cu ft
STORAGE DEPTH	5.0 ft
EMBANKMENT HEIGHT	426.0
CLEANOUT ELEVATION	423.0
BOTTOM ELEVATION	420.0
STONE CREST ELEVATION	425.0

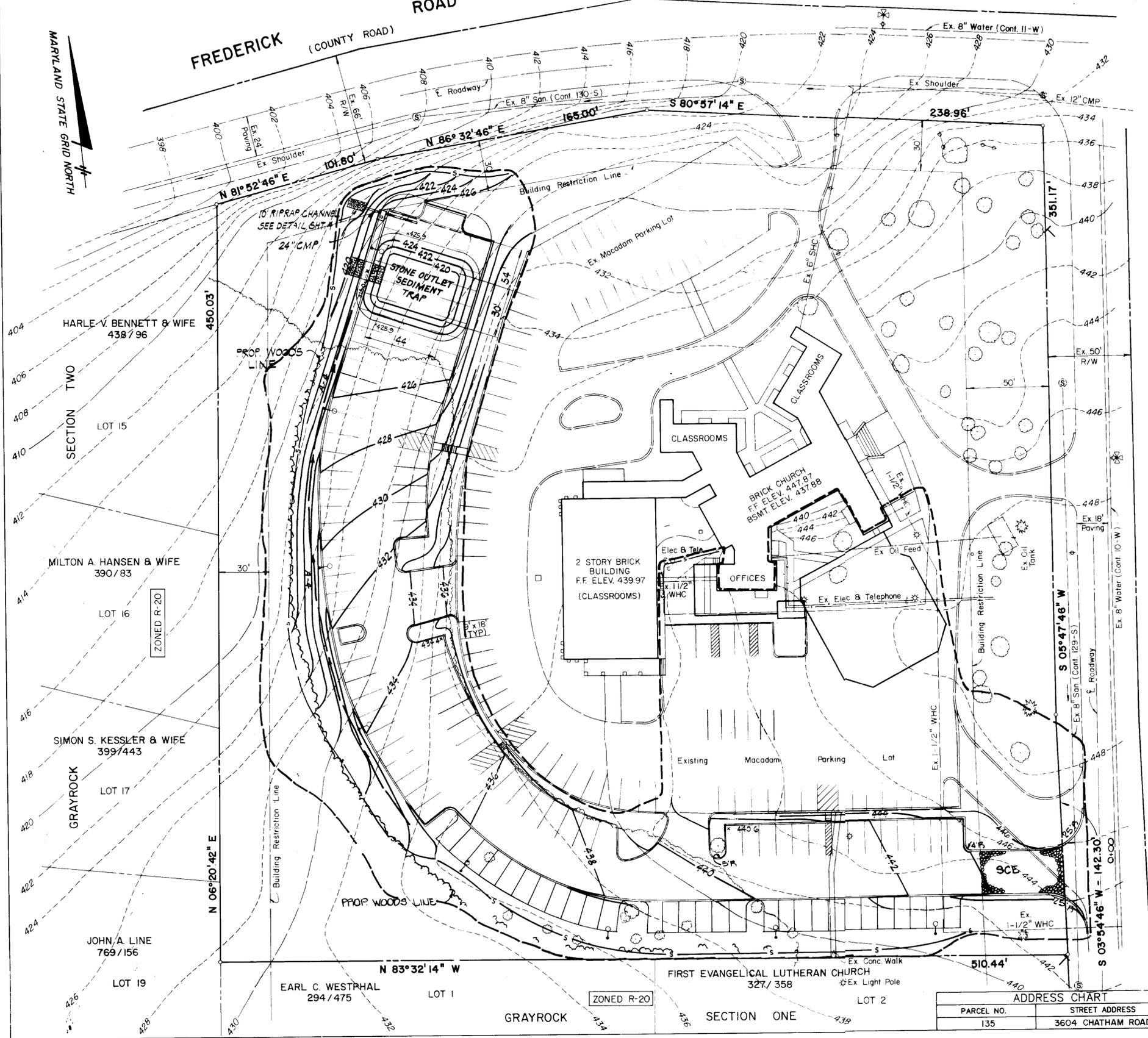
APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 7-8-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE 8-3-87
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE 8-3-87
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE 7-30-87
APPROVED: CHIEF BUREAU OF ENGINEERING	DATE 7-27-87

Reviewed for Howard Soil Conservation District and meets technical requirements.
 U.S. Soil Conservation Service
 DATE 7-23-87

1 ADD ADDITIONAL PARKING SPACES SOUTH END OF LOT		9/22/88
NO.	DESCRIPTION	DATE
REVISIONS		
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
FIRST EVANGELICAL LUTHERAN CHURCH		PARCEL 135
PLAT # OR L/F	BLOCK	ZONE TAX ZONE ELECT. DIST. CENSUS
L 229, F 332	R-20	24 2 6023.01
WATER CODE		SEWER CODE
F07		5733700

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
135	3604 CHATHAM ROAD



OWNER / APPLICANT:
 EDWARD ZIEGLER, CHAIRMAN
 BUILDING COMMITTEE
 FIRST EVANGELICAL LUTHERAN CHURCH
 3604 CHATHAM ROAD
 ELLICOTT CITY, MD 21043

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Richard H. Berwick
 DATE 7/12/87

FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY
 SEDIMENT & EROSION CONTROL PLAN
 2ND ELECTION DISTRICT HOWARD COUNTY, MD.
 TAX MAP NO. 24 PARCEL 135
 DATE: JUNE 5, 1987 SCALE: 1" = 30'

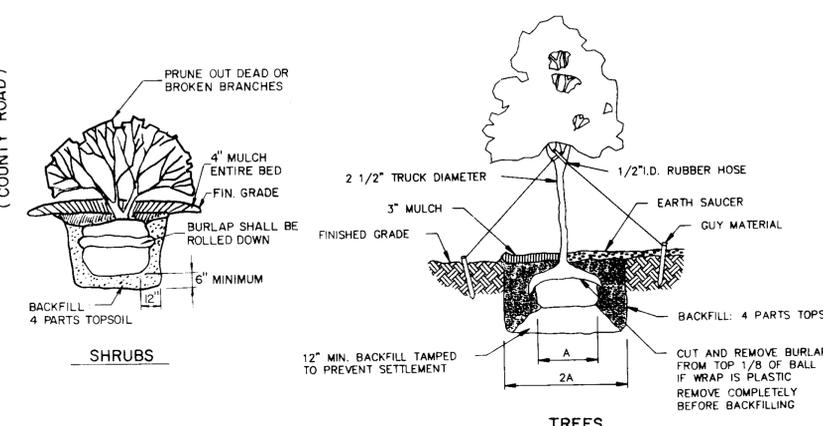
SHEET 2 OF 6
 DES: PS
 DRAWN: REC
 CHK: RHB

PURDUM & JESCHKE
 CONSULTING ENGINEERS AND LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202 (301)837-0194

PLANTING SCHEDULE

TREES QUAN.	SYM.	NAME	SIZE	SPACING
31	⊙	<i>Tsuga canadensis</i> Canadian Hemlock	5'-6" B+B	As Shown
1	⊕	<i>Ilex opaca</i> American Holly	6'-7" B+B	As Shown
2	⊕	<i>Quercus palustris</i> Pin Oak	2-2½" cal B+B	As Shown
12	⊕	<i>Tilia cordata</i> 'Greenspire' Little Leaf Linden	2-2½" B+B	As Shown

SHRUBS	SYM.	NAME	SIZE	SPACING
81	⊗	<i>Cotoneaster dammeri</i> Bearberry cotoneaster	12-15" Cont	6' %
6	⊕	<i>Ilex crenata</i> Japanese Holly	21-24" Cont.	As Shown
2	⊙	<i>Rhododendron obtusum</i> "Horsely Red" Azalea "Delaware Valley" Azalea	18-21" Cont.	As Shown



PLANTING DETAILS

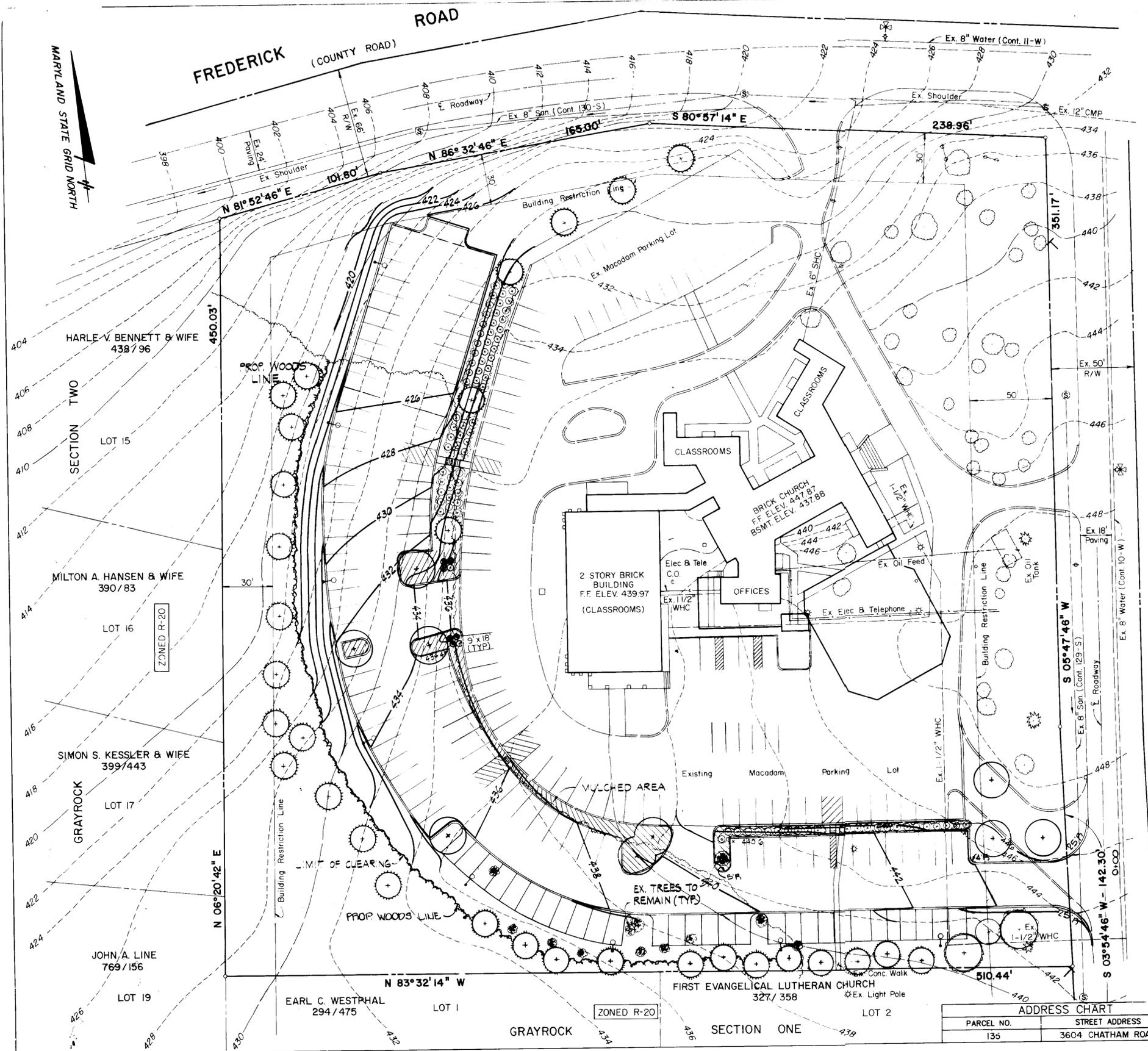
NOT TO SCALE

NO.	DESCRIPTION	DATE
1	ADD ADDITIONAL PARKING SPACES SOUTH END OF LOT	9/22/88
REVISIONS		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT		
COUNTY HEALTH OFFICER	<i>[Signature]</i>	8-3-87
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
DIRECTOR	<i>[Signature]</i>	8-3-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	<i>[Signature]</i>	8-3-87
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
DIRECTOR	<i>[Signature]</i>	7-21-87
CHIEF BUREAU OF ENGINEERING	<i>[Signature]</i>	7-21-87

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 7-8-87
[Signature]

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
FIRST EVANGELICAL LUTHERAN CHURCH		PARCEL 135
PLAT # ORL/F	BLOCK	ZONE
L 229, F. 332	10	R-20
TAX ZONE	24	ELECT. DIST.
		2
CENSUS		6023.01
WATER CODE		SEWER CODE
F07		5153100

PARCEL NO.	STREET ADDRESS
135	3604 CHATHAM ROAD



PURDUM & JESCHKE
CONSULTING ENGINEERS AND
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT:
EDWARD ZIEGLER, CHAIRMAN
BUILDING COMMITTEE
FIRST EVANGELICAL
LUTHERAN CHURCH
3604 CHATHAM ROAD
ELLCOTT CITY, MD 21043

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HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF
NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE
CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE
PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION
BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] DATE 7-2-87

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CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN
BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND
THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIRE-
MENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] DATE 7-2-87

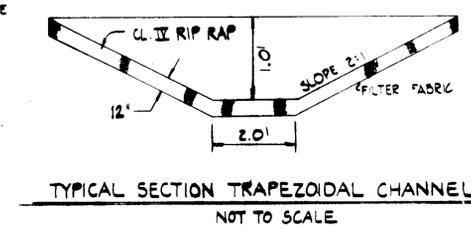
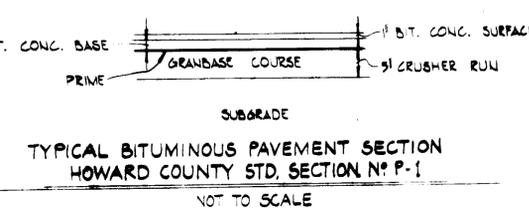
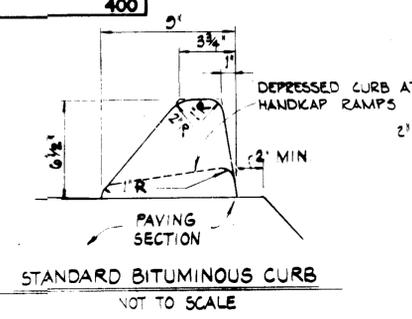
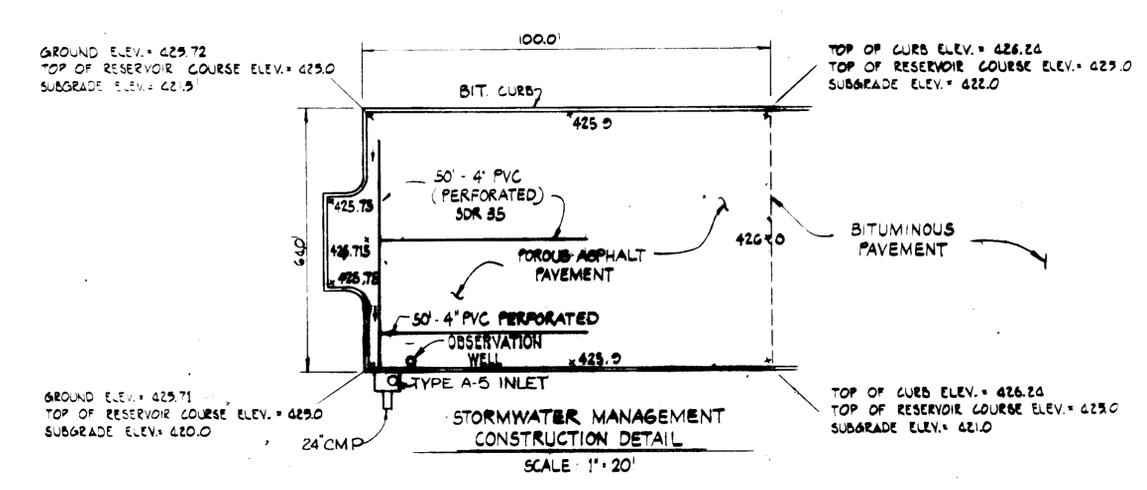
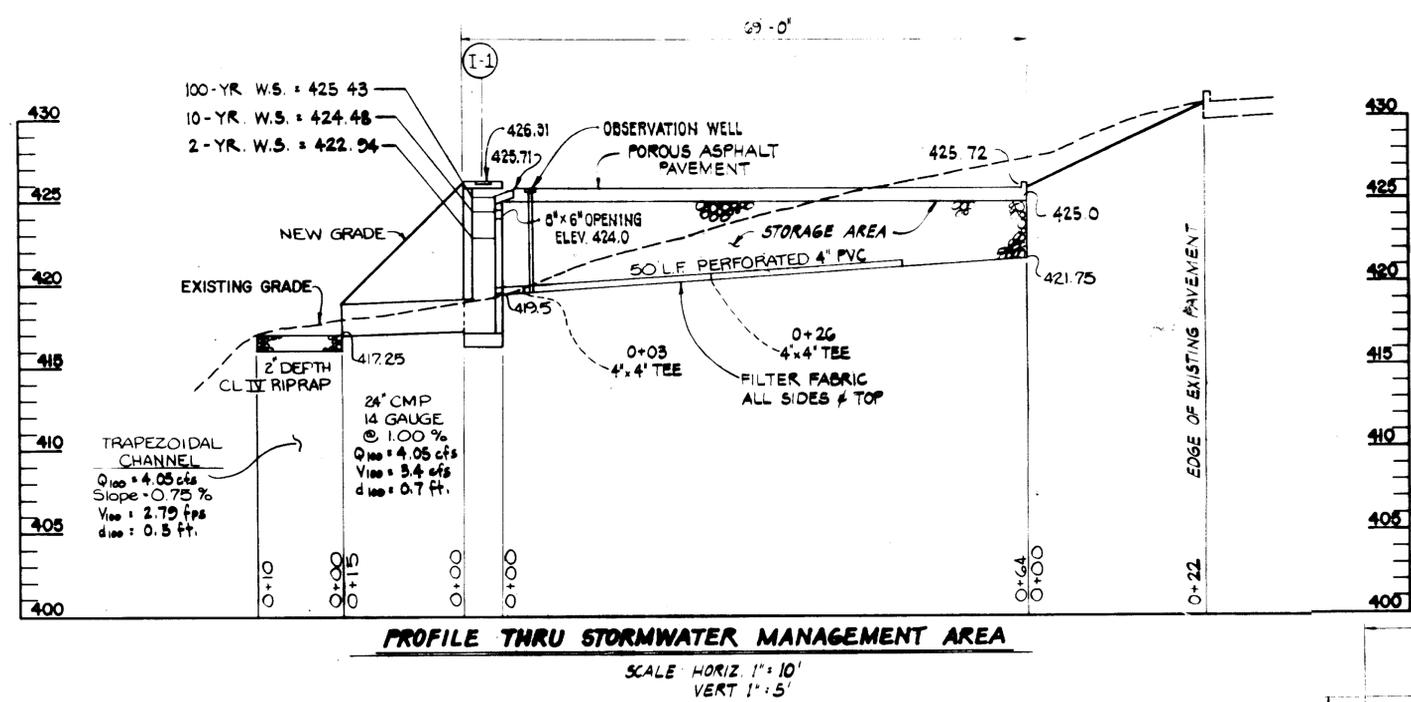
LANDSCAPING PLAN

2ND ELECTION DISTRICT HOWARD COUNTY, MD.
TAX MAP NO. 24 PARCEL 135
DATE: JUNE 5, 1987 SCALE: 1" = 30'

SHEET 3 OF 6

DRAWN: PS
DESIGN: REC
CHK: RHB

APPROVED
 COUNTY HEALTH DEPARTMENT
 DATE 7-8-87
 MA JMM



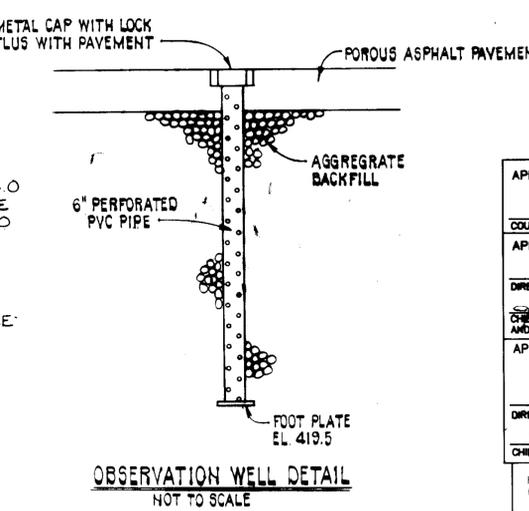
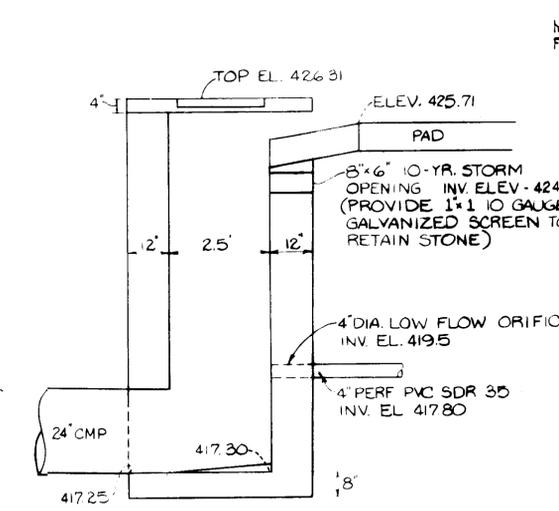
Project: First Lutheran Church of Ellicott City, Maryland
 Boring No. 2-1 Elevation Date August 28, 1987
 Location See Plan

Depth From To	U.S.D.A. Textural Classification	Elevation	In-Place Moisture Content
Surface 2.5	Clay Loam (Fill)		
2.5 8.0	Reddish Brown Clay Loam	26.22	
8.0 10.0	Brown Clay Loam with Rock Fragments	20.72	
10.0 15.0	Brown Clay Loam - Sandy Clay Loam	13.52	
Very Hard Drilling below 12 feet			
Notes: Hole Collapsed at 7'8\"/>			

Project: First Lutheran Church of Ellicott City, Maryland
 Boring No. 2-2 Elevation Date January 20, 1987
 Location See Plan

Depth From To	U.S.D.A. Textural Classification	Elevation	In-Place Moisture Content
Surface 3.0	Clay Loam (Fill)		
3.0 7.5	Brown Clay Loam	22.72	
7.5 10.0	Light Brown Clay Loam	18.52	
10.0 15.0	Greenish Gray Clay Loam	13.62	
Very Hard Drilling below 10 feet			
Notes: Hole Collapsed at 8 feet upon withdrawal of auger			

BORING INFORMATION SHOWN WAS PROVIDED BY MR. E.J. ZEIGLER DATED ON JANUARY 27, 1987. THE PURPOSE OF THESE BORINGS ARE TO AID THE ENGINEER IN THE DESIGN OF THE STORMWATER MANAGEMENT FACILITY. IF THE CONTRACTOR USES THIS INFORMATION TO MAKE JUDGEMENTS ON THE EXCAVATED MATERIALS HE DOES SO AT HIS OWN RISK.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER [Signature] DATE 6-3-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DIRECTOR [Signature] DATE 8-3-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DIRECTOR [Signature] DATE 5-28-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF BUREAU OF ENGINEERING [Signature] DATE 7-23-87

Reviewed for Howard Soil Conservation District and meets technical requirements.
 [Signature] U.S. Soil Conservation Service DATE 7-23-87

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 [Signature] DATE 7/23/87
 Howard Soil Conservation District

ADDRESS CHART

PARCEL NO.	STREET ADDRESS	WATER CODE	SEWER CODE
135	3604 CHATHAM ROAD	F07	S733100

PURDUM & JESCHKE
 CONSULTING ENGINEERS AND LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT:
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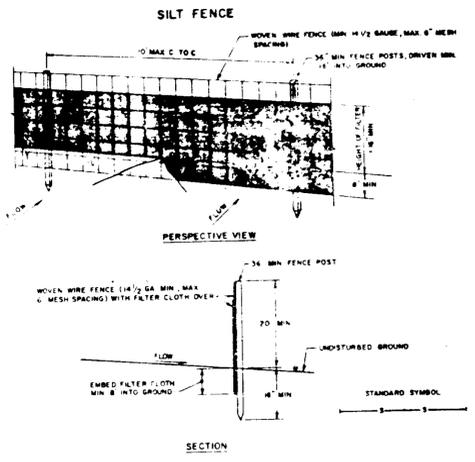
DEVELOPER'S CERTIFICATION
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 DATE

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 [Signature] DATE

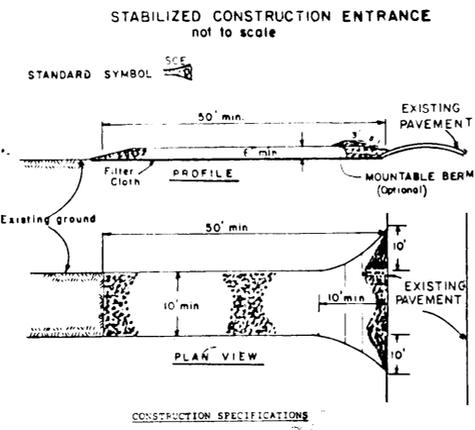
FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY
STORMWATER MANAGEMENT DETAILS
 2ND ELECTION DISTRICT HOWARD COUNTY, MD.
 TAX MAP NO. 24 PARCEL 135
 DATE: JUNE 5, 1997 SCALE: AS SHOWN

SHEET 4 OF 6
 DES: GAP, JK
 DRAWN: RED, REC
 CHK: RHB

SDP-87-183



- CONSTRUCTION NOTES FOR PERMANENT SILT FENCE**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPALED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL RIFLER T OR U TYPE OR 2" HARDWOOD
 FENCE: WOVEN WIRE 16 GA. 2" MESH OPENING
 FILTER CLOTH: FILTER X, PAPER, SOD, STABILINA, MICHON OR APPROVED EQUAL
 PREPARATION: CLEAN, CENTREFREE, OR APPROVED EQUAL



- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedule:

- 1) Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of creeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 tall fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of creeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

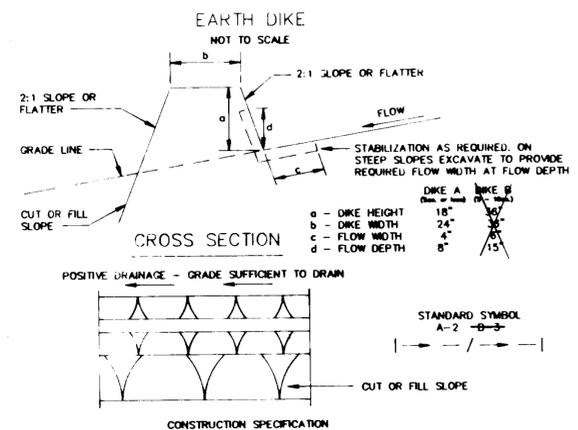
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Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

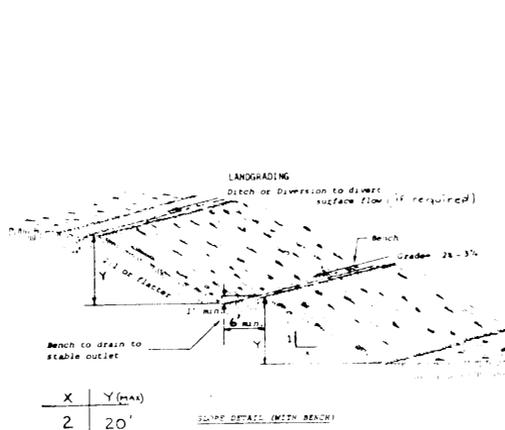
SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:

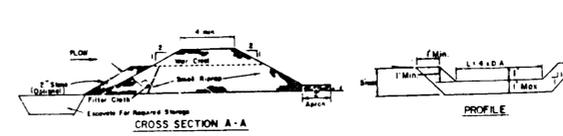
Total Area of Site	5.647 Acres
Area Disturbed	1.47 Acres
Area to be roofed or paved	0.79 Acres
Area to be vegetatively stabilized	0.54 Acres
Total Cut	1789 Cu. yds
Total Fill	2850 Cu. yds
Offsite waste/borrow area location	UNDETERMINED
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



- CONSTRUCTION SPECIFICATION**
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
 6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATION FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | FLOW CHANNEL STABILIZATION | |
|-------------------|---------------|----------------------------------|--|
| | | DIKE A | DIKE B |
| 1 | .5 - 3.0% | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1 - 5.0% | SEED AND STRAW MULCH | SEED USING LITE, OR EXCELSDOR, SOD, 2" STONE |
| 3 | 5.1 - 8.0% | SEED WITH LITE, OR SOD; 2" STONE | LINED RIPRAP 4" - 8" |
| 4 | 8.1 - 20% | LINED RIPRAP 4" - 8" | ENGINEERING DESIGN |
- A. STONE TO BE 2 INCH STONE, OR RECYCLE CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 B. RIPRAP TO BE 4" - 8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 C. APPROVED EQUIVALENT CAN BE SUBSTITUTED FOR ANY OF THE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



- CONSTRUCTION SPECIFICATIONS FOR ST-1**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap 2" embedded filter cloth in the riprap.
 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- STONE OUTLET SEDIMENT TRAP**
- | X | Y (max) |
|---|---------|
| 2 | 20' |
| 3 | 30' |
| 4 | 40' |
- CONSTRUCTION SPECIFICATIONS**
1. All graded or disturbed areas including slopes shall be protected during clearing and construction in accordance with the approved sediment control plan until they are permanently stabilized.
 2. All sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved sediment control plan and the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas".
 3. Topsoil required for the establishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
 4. Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
 5. Areas which are to be topsoiled shall be scarified to a minimum depth of three inches prior to placement of topsoil.
 6. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
 7. All fill to be placed and compacted in layers not to exceed 8 inches in thickness.
 8. Except for approved landfills, fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fill.
 9. Frozen materials or soft, sticky or highly compressible materials shall not be incorporated into fills.
 10. Fill shall not be placed on a frozen foundation.
 11. All benches shall be kept free of sediment during all phases of development.
 12. Seeps or springs encountered during construction shall be handled in accordance with the Standards and Specifications for Subsurface Drain or other approved method.
 13. All graded areas shall be permanently stabilized immediately following finished grading.
 14. Stockpiles, borrow areas and spoil areas shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.



- OPTION:** A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-1**
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ADDRESS CHART

PARCEL NO.	STREET ADDRESS	WATER CODE	SEWER CODE

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 GATE 7-8-87
 [Signature]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 6-8-87
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 [Signature] 8-3-87
 DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 7/30/87
 DIRECTOR DATE

APPROVED
 [Signature] 7-23-87
 CHIEF BUREAU OF ENGINEERING DATE

Reviewed for Howard Soil Conservation District and meets technical requirements.
 [Signature] 7-23-87
 Howard Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 [Signature] 7/23/87
 Howard Soil Conservation District Date

PURDUM & JESCHKE
 CONSULTING ENGINEERS AND
 LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT:
 EDWARD ZIEGLER, CHAIRMAN
 BUILDING COMMITTEE
 FIRST EVANGELICAL
 LUTHERAN CHURCH
 3604 CHATHAM ROAD
 ELLICOTT CITY, MD 21043

DEVELOPER'S CERTIFICATION
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] DATE

ENGINEER'S CERTIFICATION
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 7/12/87
 DATE

FIRST EVANGELICAL LUTHERAN CHURCH
 OF ELLICOTT CITY
**SEDIMENT & EROSION CONTROL
 DETAILS**
 2ND ELECTION DISTRICT HOWARD COUNTY, MD.
 TAX MAP NO 24 PARCEL 135
 DATE: JUNE 5, 1987 NOT TO SCALE

SHEET 5 OF 6
 DES: PS
 DRAWN: CAD
 CHK: RHB

SDP-87-183

