

**GENERAL NOTES**

- SUBJECT PROPERTY ZONED RR-DEO PER THE 02/02/04 COMPREHENSIVE ZONING PLAN.
- COURSES AND COORDINATES SHOWN HEREON ARE BASED ON A GPS SURVEY ESTABLISHED IN HOWARD, CO REFLECTING A HORIZONTAL DATUM BASED ON NAD 83/11 AND A VERTICAL DATUM OF NAVD 88 AND HAS BEEN DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL STATION:
 

|      |                            |
|------|----------------------------|
| 46ED | N 531,205.11               |
| 46ED | N 530,656.76 E 1334,461.55 |
- DENOTES PRIVATE DRIVEWAY EASEMENT.
- WATER AND SEWER SERVICE TO THE SUBJECT IS PRIVATE.
- PUBLIC WATER AND SEWAGE ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THERE IS AN EXISTING DWELLING/STRUCTURE LOCATED ON LOT 1 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING(S) ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS REQUIRE.
- DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER, SEWER, STORM DRAINAGE, OTHER PUBLIC UTILITIES, ANY CONVEYANCES OF THE AFORESAID LOTS/PARCELS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOT(S) / PARCELS, UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY AND THE RELEASE OF THE DEVELOPERS SURETY POSTED WITH SAID AGREEMENT, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE NOT TO THE PIPESTEM LOT DRIVEWAY.
- THERE ARE NO HISTORIC STRUCTURES OR GENETRIES LOCATED ON THIS SITE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TEST EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 

|   |                |
|---|----------------|
| MISS UTILITY  | 1-800-251-TTTT |
| VERIZON TELEPHONE COMPANY                             | 752-4916       |
| HOWARD COUNTY BUREAU OF UTILITIES                     | 442-2366       |
| ATTN: CABLE LOCATION DIVISION                         | 343-2553       |
| ATLANTIC GAS & ELECTRIC COMPANY                       | 685-0123       |
| STATE HIGHWAY ADMINISTRATION                          | 531-5533       |
| HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION | 742-1272       |
| (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)       | 313-1880       |
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL ON-SITE PARKING AND DRAINAGE STRUCTURES SHALL BE PRIVATELY OWNED & MAINTAINED.
- GRAVITY SEWER HOUSE CONNECTIONS WILL BE 4" PVC.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION REGULATIONS AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 50-2001.
- STORMWATER MANAGEMENT WILL BE PROVIDED THROUGH NON-STRUCTURAL SWM PRACTICES IN A SANDFILTER FACILITY.
- AN AFFO STUDY IS EXEMPT PER DMVIII SECTION 4.1.6.
- THIS SITE IS IN THE PATUXENT RIVER WATERSHED AND IS CLASSIFIED AS A USE IV-P.
- THERE ARE STEEP SLOPES, WETLANDS, STREAMS ON THIS SITE. NO DISTURBANCE IN THE ENVIRONMENTAL AREA IS PROPOSED.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- THIS SDP IS EXEMPT FROM FOREST CONSERVATION BECAUSE THE LOD FOR THIS PROJECT IS CONTAINED WITHIN THAT FOR SDP-46-43, per sec. 16.124(b)(1)(iii) of the Forest Con. Manual.
- FINANCIAL SURETY FOR 14 SHADE TREES AND 15 EVERGREENS IN THE AMOUNT OF \$6,450.00 SHALL BE POSTED WITH THE DEVELOPERS AGREEMENT FOR THIS SITE DEVELOPMENT PLAN, SDP 04-03.
- OUTDOOR LIGHTING SHALL BE IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SEE DEPARTMENT OF PLANNING & ZONING FILE NOS. BA 40-51E, BA 45-12E, F-41-112, PERC APPLICATION # A49122, WATER APPROPRIATION PERMIT NO. H2495004(O1), NP-46-101, BA 01-034C, SDP-46-43, MP42-61, NP-41-104.
- BOARD OF APPEALS CASE NO. 01-34C WAS GRANTED ON MARCH 17, 2008 WITH THE CONDITIONS THAT:
  - THE PROPOSED WORK BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CONDITIONAL USE PLAN DATED JANUARY 3, 2008.
  - THE BUILDING PERMIT FOR PHASE I SHALL BE OBTAINED WITHIN FIVE (5) YEARS OF THE DECISION DATE ON OR BEFORE MARCH 17, 2013.
  - THE BUILDING PERMIT FOR PHASE II SHALL BE OBTAINED WITHIN FIFTEEN (15) YEARS OF THE DECISION DATE.
  - THE BUILDING PERMIT FOR PHASE III SHALL BE OBTAINED WITHIN TWENTY (20) YEARS OF THE DECISION DATE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

# ST. FRANCIS OF ASSISI FAITH FORMATION CENTER

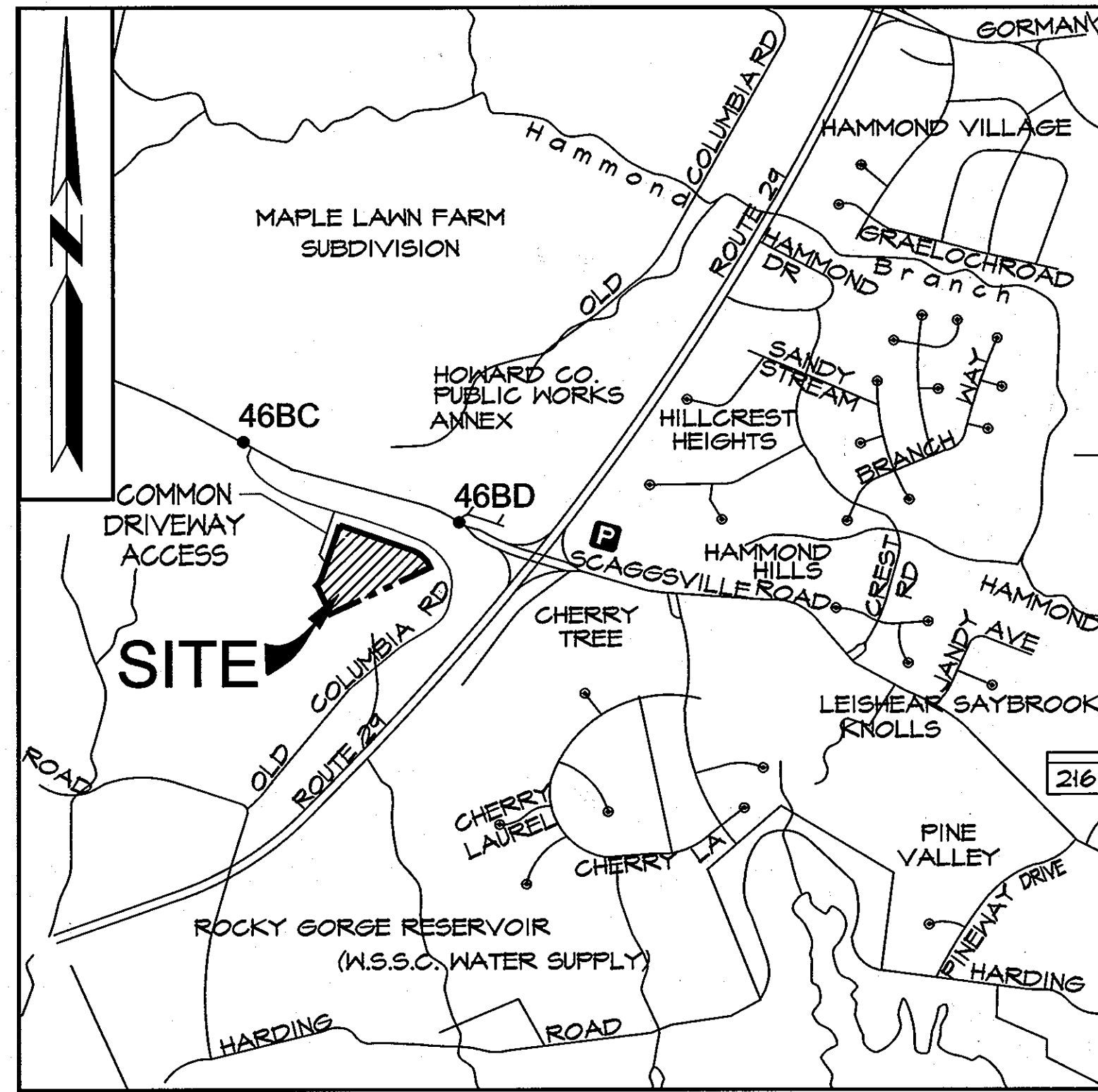
## 8300 OLD COLUMBIA ROAD FULTON, MD 20759

**SITE NOTES**

- APPLICANT/PROPERTY OWNER: THE MOST REVEREND ROMAN CATH ARCH C/O GALLAGHER ET AL 218 N. CHARLES ST. STE. 400 BALTIMORE, MD 21201-4033
- SITE DATA: TAX MAP 46, GRID 3 TRACT AREA: 543,145 SF. OR 12.47 AC. PART OF LOT: 1 PLAT NO. 10125 ELECTION DISTRICT: 5 ADC MAP: 14, GRID C-15 200 SHEET NO. 218NET EXISTING ZONE: RR-DEO SCHOOL PLANNING AREA: 112 LIMIT OF DISTURBANCE: 1.66 AC.
- DEED REFERENCE: 0230010310
- EXISTING USE: CHURCH PROPOSED USE: ONE-STORY 12,481 sqft. FAITH FORMATION CENTER FOR MEETINGS, CHOR, SUNDAY SCHOOL AND GROUP ACTIVITY CENTER
- NO DAYCARE IS PROPOSED.
- HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY BY KCI TECHNOLOGIES DATED OCTOBER, 2008.
- THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.
- BUILDING COVERAGE EXISTING: 12,000 SF 2.20% BUILDING COVERAGE PROPOSED: 24,481 SF 4.50%

**INDEX OF SHEETS**

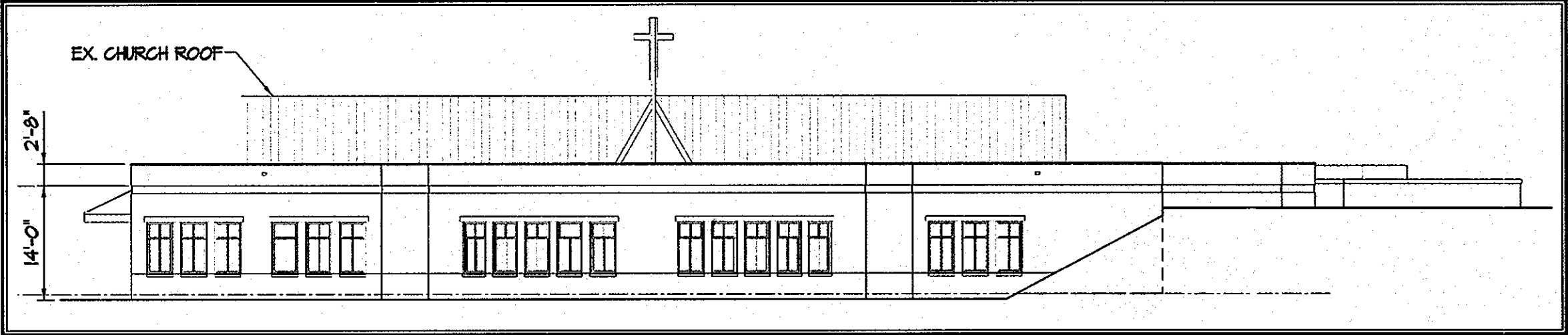
| SHEET | DESCRIPTION                                | No. |
|-------|--|-----|
| C-1   | TITLE SHEET                                | 1   |
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**VICINITY MAP**

SCALE: 1" = 1000'  
ADC MAP: 18 GRID: K6

|      |              |               |
|------|--------------|---------------|
| 46BC | N 531,205.11 | E 1337,205.11 |
| 46BD | N 530,656.76 | E 1334,461.55 |



**FAITH FORMATION CENTER NORTH ELEVATION**

NOT TO SCALE

|  |  |   |  |
|--|--|---|--|
| REVIEWED FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:<br><br>DATE: 1/27/09                                   | BY THE DEVELOPER:<br>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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.<br><br>DATE: 1/6/09 | BY THE ENGINEER:<br>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 I HAVE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.<br><br>DATE: 1-9-09 | APPROVED:<br>FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.<br><br>DATE: 2/3/09 |
| APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:<br><br>DATE: 2/6/09<br>CHIEF, DIVISION OF LAND DEVELOPMENT | APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:<br><br>DATE: 2/6/09<br>DIRECTOR  | APPROVED:<br><br>DATE: 2/3/09<br>COUNTY HEALTH OFFICER  |  |

**PARKING TABULATION ANALYSIS**

|  |                              |  |
|--|------------------------------|--|
| EX. CHURCH USE:                          | 12,000sqft/1,000sqft x 10 =  | 120 SPACES REQUIRED                      |
| PROP. FAITH FORMATION CENTER:            | 12,481sqft/1,000sqft. x 10 = | 125 SPACES REQUIRED                      |
| TOTAL NUMBER OF PARKING SPACES REQUIRED: |                              | 245 STANDARD SPACES<br>6 HANDICAP SPACES |
| TOTAL NUMBER OF PARKING SPACES PROVIDED: |                              | 255 STANDARD SPACES<br>7 HANDICAP SPACES |

BEST AND HIGHEST USE CLASSROOMS WILL NOT BE IN USE DURING SUNDAY SESSIONS.

**BUILDING SQUARE FOOTAGE BREAKDOWN**

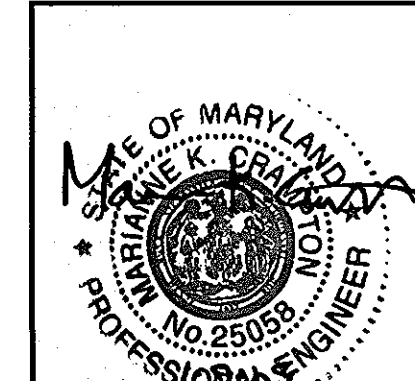
|                         |           |
|-------------------------|-----------|
| EXISTING CHURCH:        | 12,000 SF |
| FAITH FORMATION CENTER: | 12,481 SF |
| TOTAL PROPOSED:         | 24,481 SF |

**ADDRESS CHART**

| LOT# | STREET ADDRESS         |
|------|------------------------|
| 1    | 8300 OLD COLUMBIA ROAD |

**PERMIT INFORMATION CHART**

| SUBDIVISION NAME                  | SECTION/AREA      | LOT/PARCEL NO.   |
|-----------------------------------|-------------------|------------------|
| ST. FRANCIS OF ASSISI SUBDIVISION | XX                | LOT 1, 991       |
| PLAT NUMBER 10125                 | ZONING RR-DEO     | ELECT. DISTR. 05 |
| CENSUS TRACT 6091.02              | SEWER CODE XX-XXX |                  |



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25059, EXPIRATION DATE: 11-11-10

**TITLE SHEET**

ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION  
PHASE 1

ZONED RR-DEO  
TAX MAP No. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20754  
DPZ FILE # F-41-121

ISSUE DATE: 12-22-08  
SHEET 1 OF 14

**REVISIONS**

| DATE | REVISIONS |
|------|-----------|
|      |           |

**KCI TECHNOLOGIES**

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

14302 GREENVIEW DRIVE  
LAUREL, MARYLAND 20708  
PHONE: (410) 792-8086  
FAX: (410) 792-7419  
WWW.KCI.COM

**OWNER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 527-1102

**DEVELOPER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 527-1102

**SITE NOTES**

1. APPLICANT/  
PROPERTY OWNER: WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N. CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033
2. SITE DATA: TAX MAP 46, GRID 3  
TAX ID NO.: 1405318264  
TRACT AREA: 543,143 SF. OR 12.41 AC.  
PART OF LOTS 1  
PLAT NO. 10126  
ELECTION DISTRICT: 5  
ADC MAP: 14, GRID C-13  
200 SHEET NO.: 219NET  
EXISTING ZONE: RR-DEO  
SCHOOL PLANNING AREA: 112
3. DEED REFERENCE: 023001/0310
4. EXISTING USE: CHURCH  
PROPOSED USE: ONE-STORY FAITH FORMATION CENTER- MEETINGS, CHOIR,  
SUNDAY SCHOOL AND GROUP ACTIVITY CENTER.
5. NO DAYCARE IS PROPOSED.
6. HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY  
BY KCI TECHNOLOGIES DATED OCTOBER, 2006.
7. THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.
8. BUILDING COVERAGE EXISTING 12,000 SF 2.20%  
BUILDING COVERAGE PROPOSED 24,481 SF 4.50%

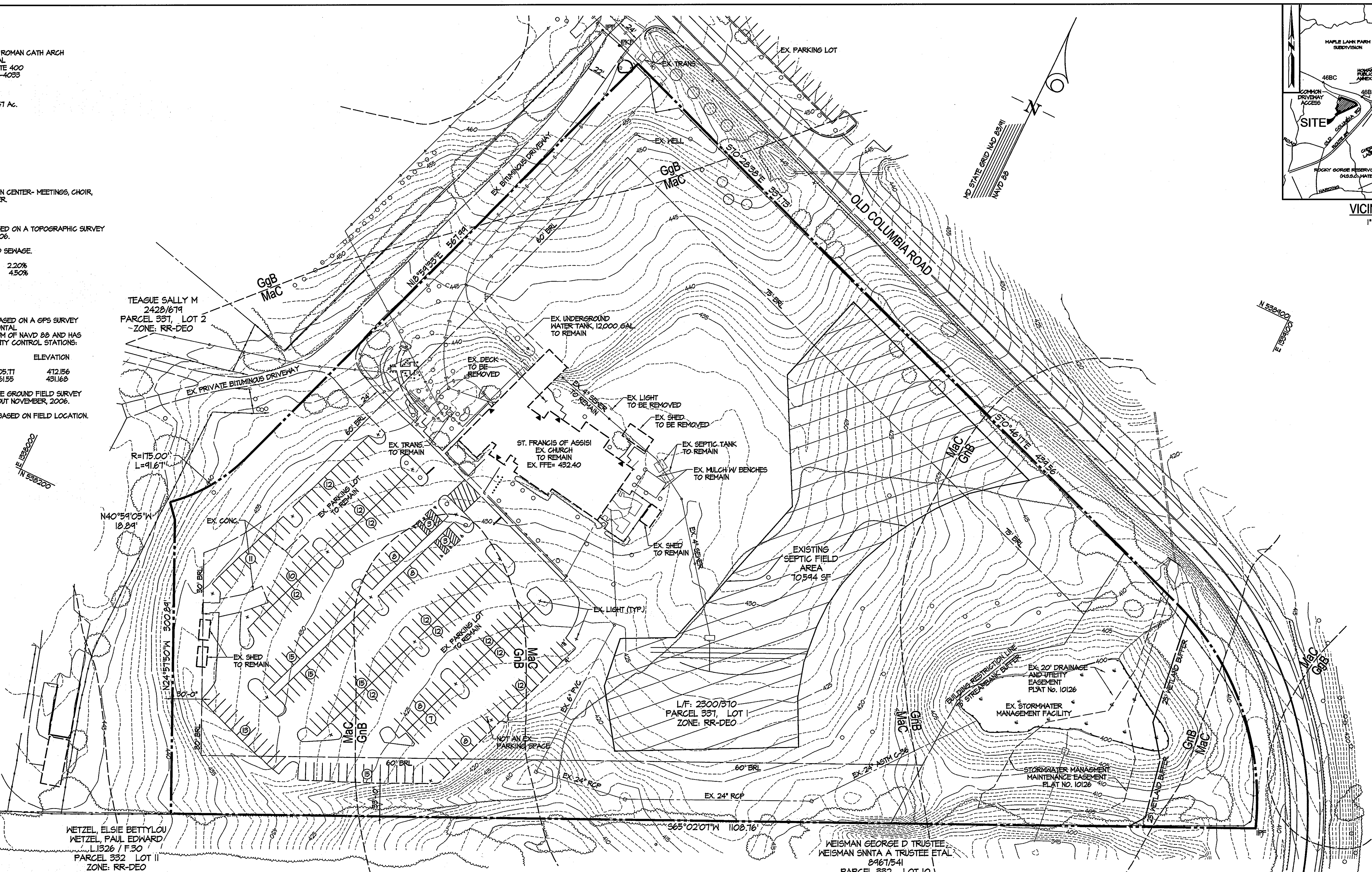
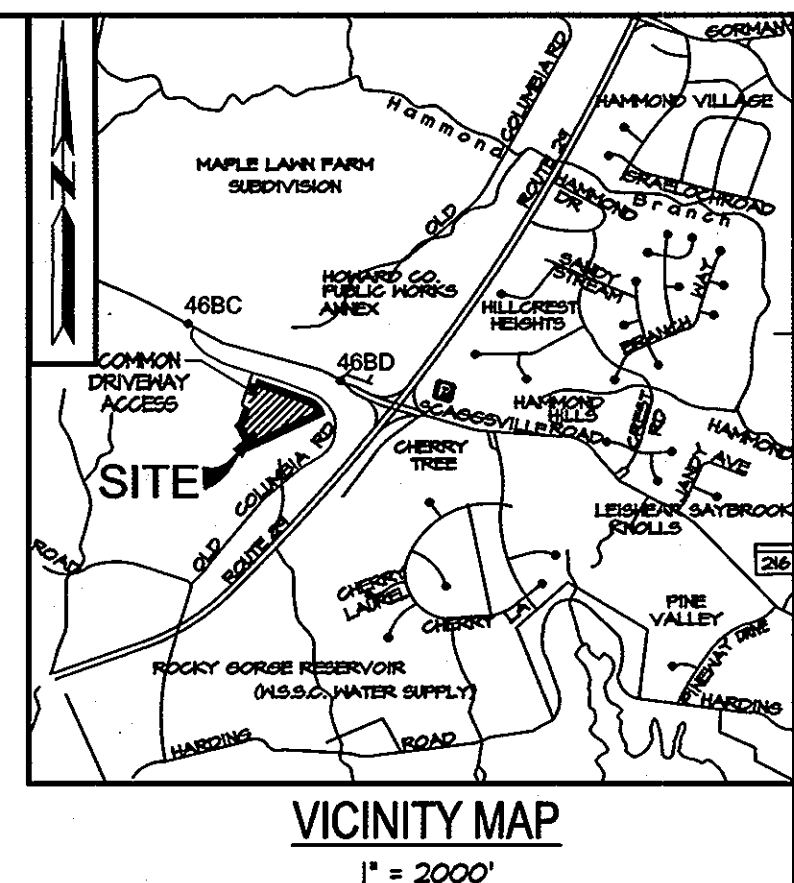
**GENERAL NOTES**

COURSES AND COORDINATES SHOWN HEREON ARE BASED ON A GPS SURVEY  
ESTABLISHED IN HOWARD, CO REFLECTING A HORIZONTAL  
DATUM BASED ON NAD 83/11 AND A VERTICAL DATUM OF NAVD 88 AND HAS  
BEEN DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL STATIONS:

| STATION | NORTH         | EAST           | ELEVATION |
|---------|---------------|----------------|-----------|
| 46BC    | N: 539,925.13 | E: 1337,205.77 | 472.156   |
| 46BD    | N: 539,656.76 | E: 1339,461.53 | 431.168   |

INFORMATION SHOWN HEREON REPRESENTS AN ON THE GROUND FIELD SURVEY  
PERFORMED BY KCI TECHNOLOGIES, INC. ON OR ABOUT NOVEMBER, 2006.

ALL ABOVE GROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATION.



**LEGEND**

- PROPERTY LINE
- EX. BUILDING
- EX. EDGE OF PAVEMENT
- EX. SIDEWALK
- EX. FENCE
- 430' --- EX. MAJOR CONTOUR
- --- EX. MINOR CONTOUR
- --- EX. SANITARY SEWER LINE
- --- EX. STORMDRAIN LINE
- --- EX. WATER LINE
- --- EX. GAS LINE
- --- EX. ELECTRIC LINE
- 235' --- PROP. MAJOR CONTOUR
- --- PROP. MINOR CONTOUR
- --- PROP. BUILDING
- --- LIMIT OF DISTURBANCE
- --- SILT FENCE
- --- SUPER SILT FENCE
- --- CLEAN WATER DIVERSION DIKE
- --- SOIL LINE
- --- STABILIZED CONSTRUCTION ENTRANCE
- --- EX. LIGHT
- --- EX. TREE
- --- EX. SEPTIC FIELD
- --- EX. WETLANDS

REQUIRED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE  
This development plan is approved. Erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SCD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 02/24/09 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISIONS

*[Signature]* 2/23/09 DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT

*[Signature]* 2/26/09 DATE  
DIRECTOR

| Drafting | CS  | DATE | REVISIONS |
|----------|-----|------|-----------|
| Check    | THM |      |           |
| Design   | NAB |      |           |
| Check    | MKC |      |           |

BY THE DEVELOPER:

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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 1/6/09 DATE  
FR. DENNIS P. DIEHL  
PARISH CORP.  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:

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 HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 1/9/09 DATE  
ENGINEER

APPROVED:

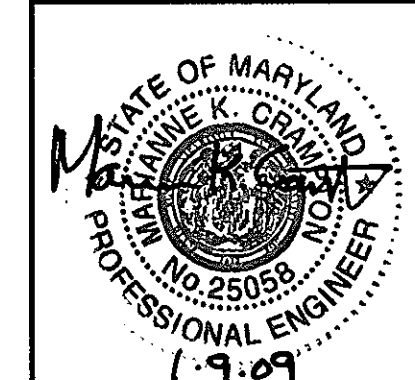
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

*[Signature]* 2/23/09 DATE  
COUNTY HEALTH OFFICER



**OWNER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N. CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 721-7102

**DEVELOPER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N. CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 721-7102



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE: 11-7-10

**EXISTING CONDITIONS**  
ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION  
PHASE 1

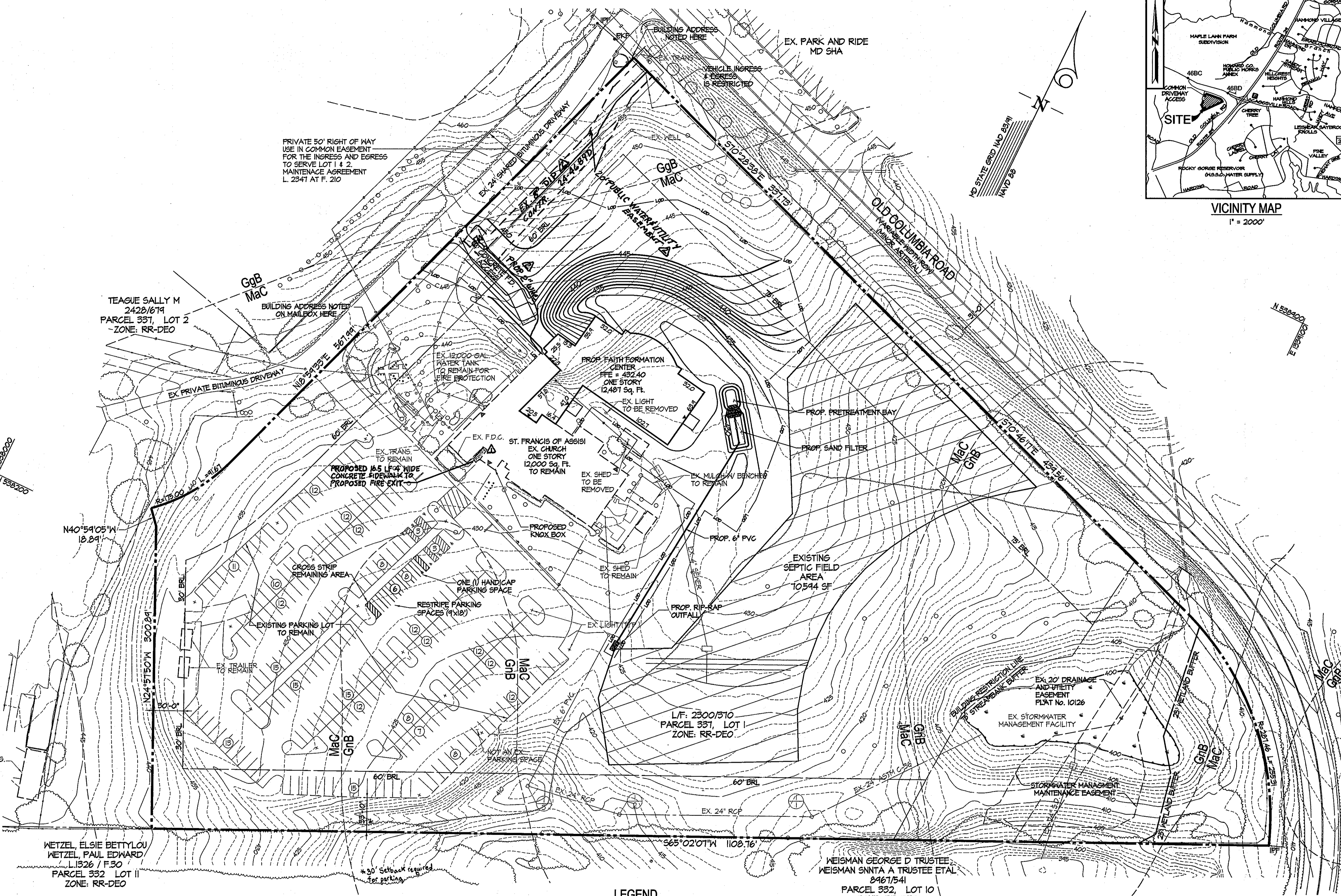
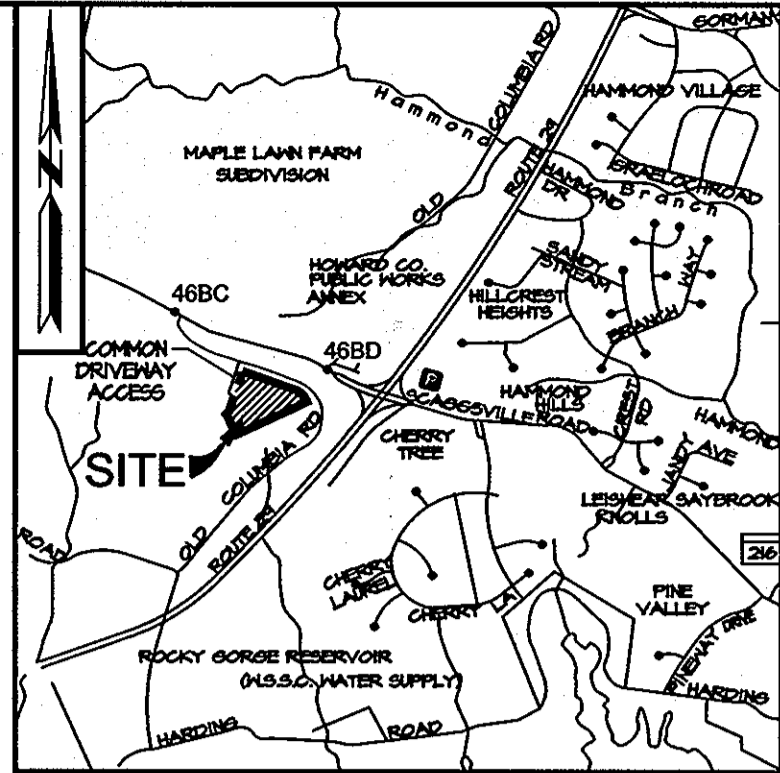
ZONED RR-DEO  
TAX MAP NO. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20784

SCALE: 1" = 50'

ISSUE DATE: 12-22-08  
SHEET 2 OF 14

**SITE NOTES**

1. APPLICANT/ PROPERTY OWNER: WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
219 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4093  
PHONE: (410) 121-7102
2. SITE DATA: TAX MAP 46, GRID 3  
TAX ID NO.: 1405310064  
TRACT AREA: 545,143 S.F. OR 12.41 AC.  
PART OF LOTS 1  
FLAT NO. 10125  
ELECTION DISTRICT: 5  
ADC MAP: 14, GRID C-13  
200 SHEET NO.: 218NET  
EXISTING ZONE: RR-DEO  
SCHOOL PLANNING AREA: 112
3. DEED REFERENCE: 02300/0810
4. EXISTING USE: CHURCH  
PROPOSED USE: ONE STORY FAITH FORMATION CENTER- MEETINGS, CHOIR,  
SUNDAY SCHOOL AND GROUP ACTIVITY CENTER.
5. NO DAYCARE IS PROPOSED.
6. HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY  
BY KCI TECHNOLOGIES DATED OCTOBER, 2006.
7. THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.
8. BUILDING COVERAGE EXISTING 12,000 SF 2.20 %  
BUILDING COVERAGE PROPOSED 24,481 SF 4.50%



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 35792, Expiration Date: 01/14/13

FOR REVISION @ 4-19-12

|  |   |
|--|---|
| <p>USDA - NATURAL RESOURCES CONSERVATION SERVICE<br/>This development plan is approved for erosion and sediment control by the HOWARD COUNTY SOIL CONSERVATION DISTRICT.</p>   |   |
| <p>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.</p> <p><i>[Signature]</i><br/>CHIEF, DEVELOPMENT ENGINEERING DIVISION</p> <p><i>[Signature]</i><br/>CHIEF, DIVISION OF LAND DEVELOPMENT</p> <p><i>[Signature]</i><br/>DIRECTOR</p> | <p>DATE: 02/24/09</p> <p>DATE: 2/25/09</p> <p>DATE: 2/26/09</p>   |
| <p>Drafting CS</p> <p>Check THM</p> <p>Design NAB</p> <p>Check MKC</p>   | <p>DATE: 4-19-12</p> <p>ADDED CONTR. 211-4689D&amp;E W/H/K</p> <p>DATE: 4-1-09</p> <p>SIDEWALK TO FIRE EXIT</p> |

BY THE DEVELOPER:

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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]*  
FR. DENNIS P. DIEHL 1/6/09  
DATE

FR. DENNIS P. DIEHL  
PARISH CORP.  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:

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 COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]*  
Maurice K. Campbell 1-9-09  
DATE

Maurice K. Campbell  
ENGINEER

APPROVED:

FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

*[Signature]*  
B. Nulon for Peter Belesen 2/23/09  
DATE

B. Nulon for Peter Belesen  
COUNTY HEALTH OFFICER

OWNER:

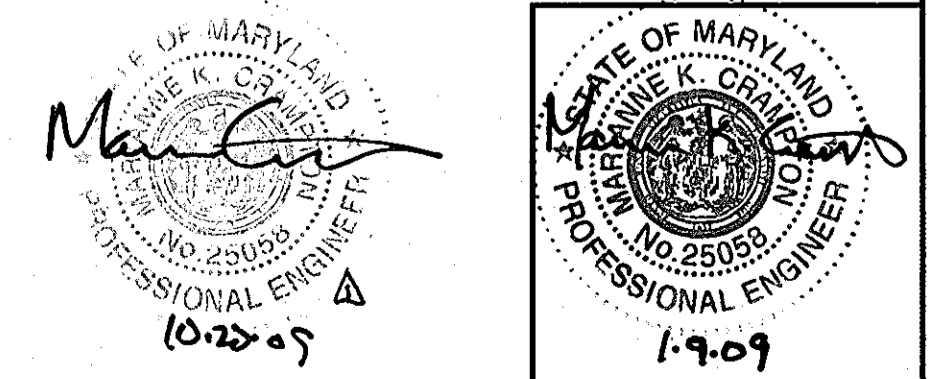
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
219 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4093  
PHONE: (410) 121-7102

DEVELOPER:

WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
219 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4093  
PHONE: (410) 121-7102

**LEGEND**

- PROPERTY LINE
- EX. BUILDING
- EX. EDGE OF PAVEMENT
- EX. SIDEWALK
- EX. FENCE
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. SANITARY SEWER LINE
- EX. STORMDRAIN LINE
- EX. WATER LINE
- EX. GAS LINE
- EX. ELECTRIC LINE
- 435 --- PROP. MAJOR CONTOUR
- 400 --- PROP. MINOR CONTOUR
- --- PROP. BUILDING
- --- LIMIT OF DISTURBANCE
- --- SILT FENCE
- --- SUPER SILT FENCE
- --- CLEAN WATER DIVERSION DIKE
- --- SOIL LINE
- --- STABILIZED CONSTRUCTION ENTRANCE
- --- EX. SEPTIC FIELD
- --- EX. WETLANDS



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 35792 EXPIRATION DATE: 11-17-10

EROSION AND SEDIMENT CONTROLS ARE NOT SHOWN ON THE SITE PLAN, ONLY PERMANENT STRUCTURES OR FEATURES.

**SITE PLAN**

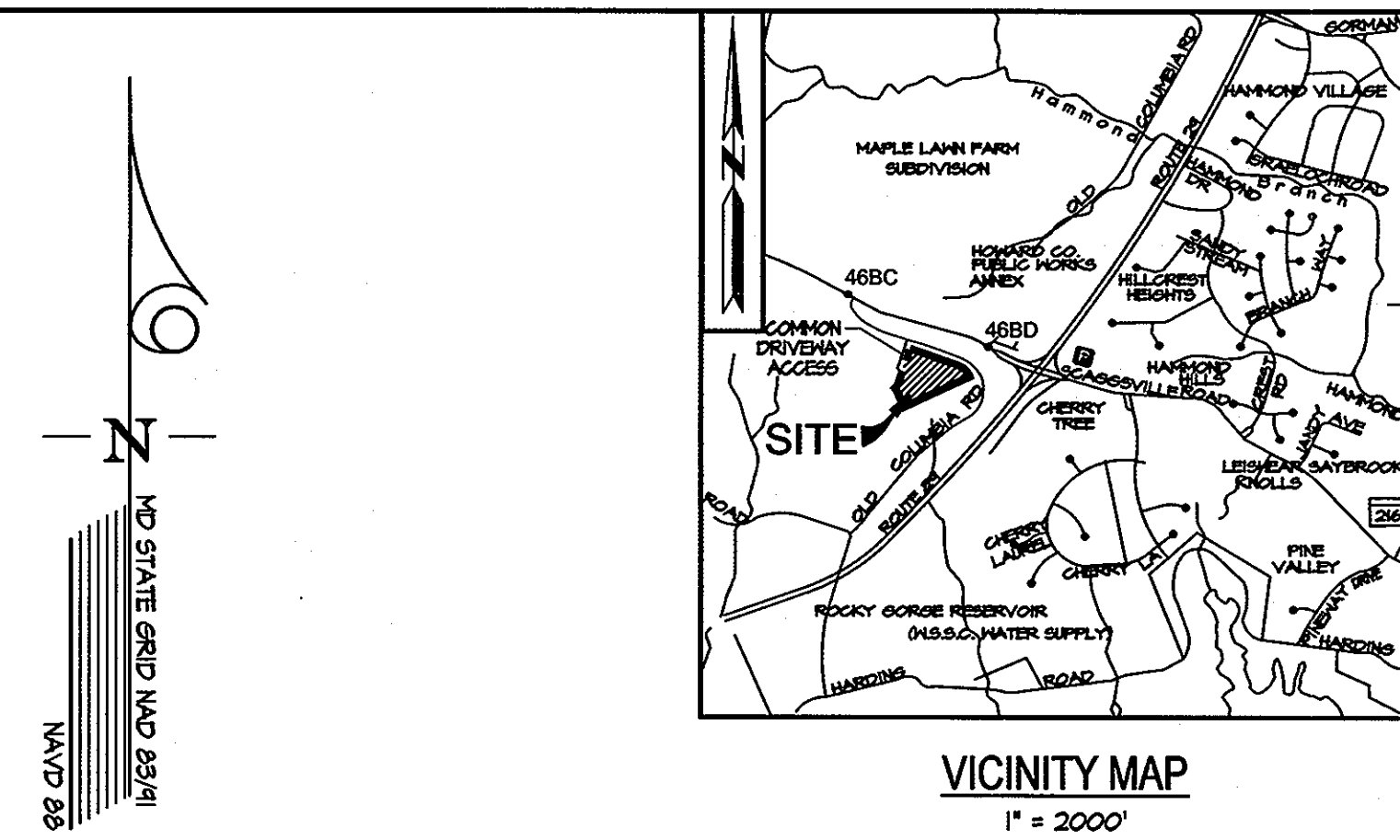
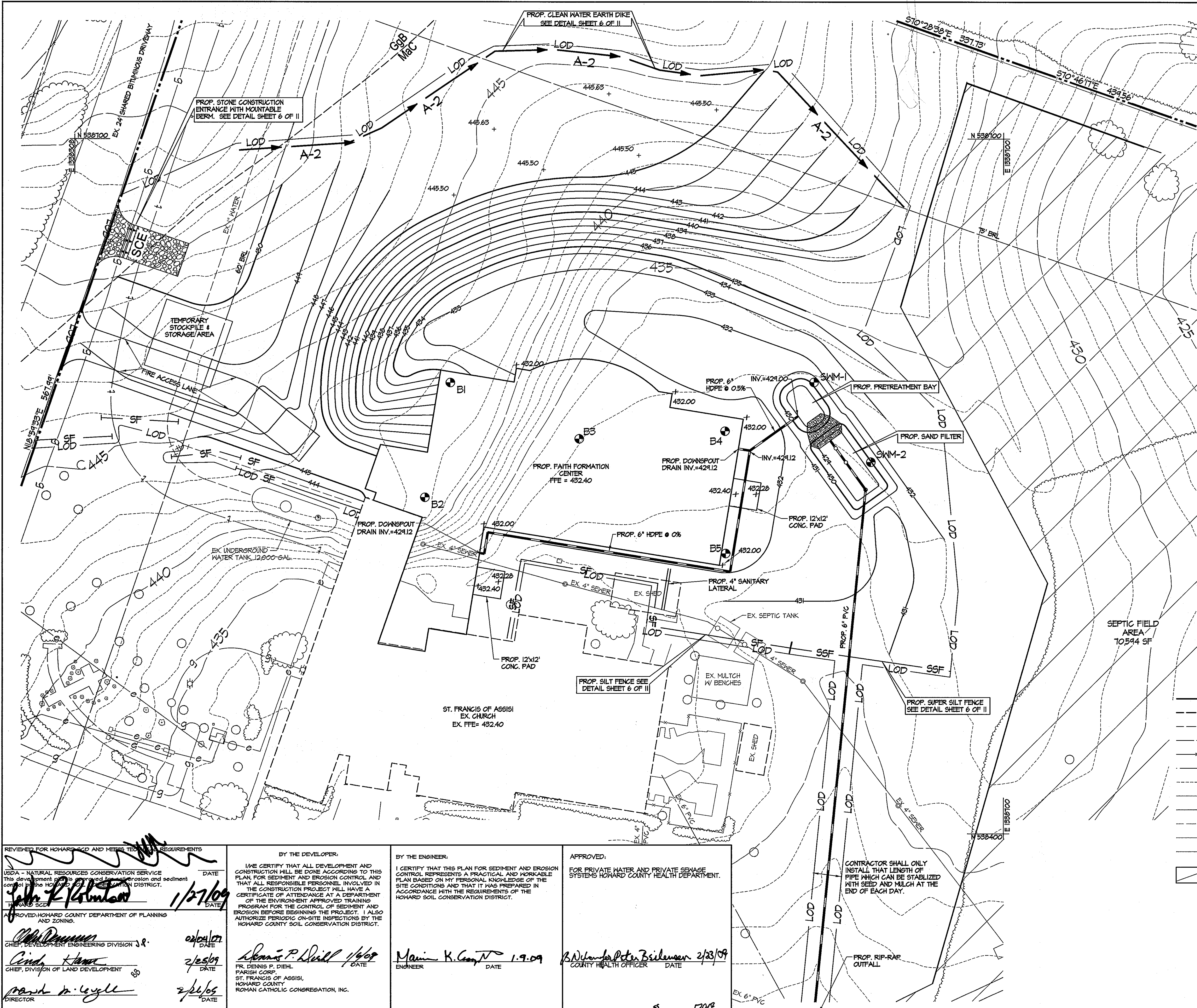
ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH  
FORMATION CENTER ADDITION  
PHASE 1

ZONED RR-DEO  
TAX MAP NO. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20754

SCALE: 1" = 50'

ISSUE DATE: 12-22-08  
SHEET 3 OF 14

COUNTY FILE # SDP-09-03



**SITE NOTES**

- APPLICANT/PROPERTY OWNER: WILLIAM H. KEELER, THE MOST REVEREND ROMAN CATH ARCH, C/O GALLAGHER ET AL, 218 N. CHARLES ST. SITE 400, BALTIMORE, MD 21201-4033
- SITE DATA: TAX MAP 46, GRID 3, TRACT ID NO. 1405210/664, TRACT AREA: 548,145 S.F. OR 12.47 Ac., PART OF LOT: 1, FLAT NO. 10125, ELECTION DISTRICT: 5, ADC MAP: 14, GRID C-13, 200 SHEET NO.: 218NET, EXISTING ZONE: RR-DEO, SCHOOL PLANNING AREA: 112
- DEED REFERENCE: 02300/0370
- EXISTING USE: CHURCH, PROPOSED USE: ONE STORY FAITH FORMATION CENTER- MEETINGS, CHOIR, SUNDAY SCHOOL AND GROUP ACTIVITY CENTER.
- NO DAYCARE IS PROPOSED.
- HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY BY KCI TECHNOLOGIES DATED OCTOBER, 2006.
- THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.
- BUILDING COVERAGE EXISTING: 12,000 SF 2.20%, BUILDING COVERAGE PROPOSED: 24,481 SF 4.50%

**LEGEND**

- PROPERTY LINE
- - - EX. BUILDING
- - - EX. EDGE OF PAVEMENT
- - - EX. SIDEWALK
- - - EX. FENCE
- - - EX. MAJOR CONTOUR
- - - EX. MINOR CONTOUR
- - - EX. SANITARY SEWER LINE
- - - EX. STORMDRAIN LINE
- - - EX. WATER LINE
- - - EX. GAS LINE
- - - EX. ELECTRIC LINE
- 435 --- PROP. MAJOR CONTOUR
- 434 --- PROP. MINOR CONTOUR
- - - PROP. BUILDING
- - - LOD --- LIMIT OF DISTURBANCE
- - - SF --- SILT FENCE
- - - SSF --- SUPER SILT FENCE
- Mac --- CLEAN WATER DIVERSION DIKE
- - - Gnb --- SOIL LINE
- EX. SEPTIC FIELD

REVIEWED FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE  
This development will not result in the permanent loss of sediment control on the HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DISTRICT.

*John P. Robinson* 1/27/09  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John P. Robinson* 2/2/09  
DATE

*Cindy Hantz* 2/25/09  
DATE

*Mark W. Leyle* 2/26/09  
DATE

BY THE DEVELOPER:

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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Shane P. Diehl* 1/6/09  
DATE

FR. DENNIS P. DIEHL, PARISH CORP., ST. FRANCIS OF ASSISI, HOWARD COUNTY ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:

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 COUNTY SOIL CONSERVATION DISTRICT.

*Maxim K. Gonyea* 1.9.09  
DATE

ENGINEER

APPROVED:

FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

*B. Williams/Peter Beilansen* 2/23/09  
DATE

COUNTY HEALTH OFFICER

| Drafting | CS  | DATE | REVISIONS |
|----------|-----|------|-----------|
| Check    | THM |      |           |
| Design   | NAB |      |           |
| Check    | MKG |      |           |

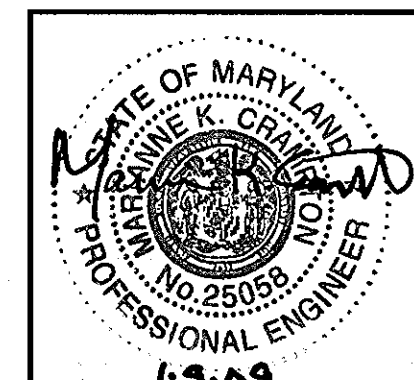
**KCI TECHNOLOGIES**  
ENGINEERS, PLANNERS, SCIENTISTS, CONSTRUCTION MANAGERS

14502 GREENVIEW DRIVE  
LAUREL, MARYLAND 20708  
PHONE: (410) 792-6066  
FAX: (410) 792-7419  
WWW.KCI.COM

**OWNER**  
WILLIAM H. KEELER, THE MOST REVEREND ROMAN CATH ARCH, C/O GALLAGHER ET AL, 218 N CHARLES ST. SITE 400, BALTIMORE, MD 21201-4033, PHONE: (410) 127-1702

**DEVELOPER**  
WILLIAM H. KEELER, THE MOST REVEREND ROMAN CATH ARCH, C/O GALLAGHER ET AL, 218 N CHARLES ST. SITE 400, BALTIMORE, MD 21201-4033, PHONE: (410) 127-1702

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE: 11-11-10



**GRADING / EROSION & SEDIMENT CONTROL PLAN**  
ST. FRANCIS OF ASSISI SUBDIVISION LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1

ZONED RR-DEO  
TAX MAP NO. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FILTON, MD 20754

SCALE: 1" = 20'

ISSUE DATE: 12-22-08  
SHEET 4 OF 14

COUNTY FILE # SDP-09-03



**TOPSOIL STANDARDS AND SPECIFICATIONS**

**Definition:** Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.  
**Purpose:** To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish containing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**Construction and Material Specifications to the placement of topsoil.**

**Line shall be salvaged**

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to uniformly over disturbed areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
  - For sites having disturbed areas under 5 acres:
    - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
  - For sites having disturbed areas over 5 acres:
    - On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
      - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
      - Organic content of topsoil shall be not less than 15 percent by weight.
      - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
      - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time as elapsed (14 days min.) to permit dissipation of phytotoxic materials, agronomist or soil scientist and approved by the appropriate approval authority may be used in lieu of natural topsoil.
    - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

**2.0 MATERIALS AND SPECIFICATIONS**  
**TABLE 21 GEOTEXTILE FABRICS**

| CLASS          | APPEARANT OPENING SIZE MM. MAX. | GRAB TENSILE STRENGTH LB. MIN. | BURST STRENGTH PSI MIN. |
|----------------|---------------------------------|--------------------------------|-------------------------|
| A              | 0.30**                          | 250                            | 500                     |
| B              | 0.60                            | 200                            | 320                     |
| C              | 0.30                            | 200                            | 320                     |
| D              | 0.60                            | 40                             | 145                     |
| E              | 0.30                            | 40                             | 145                     |
| F (SILT FENCE) | 0.40 - 0.80**                   | 40                             | 140                     |

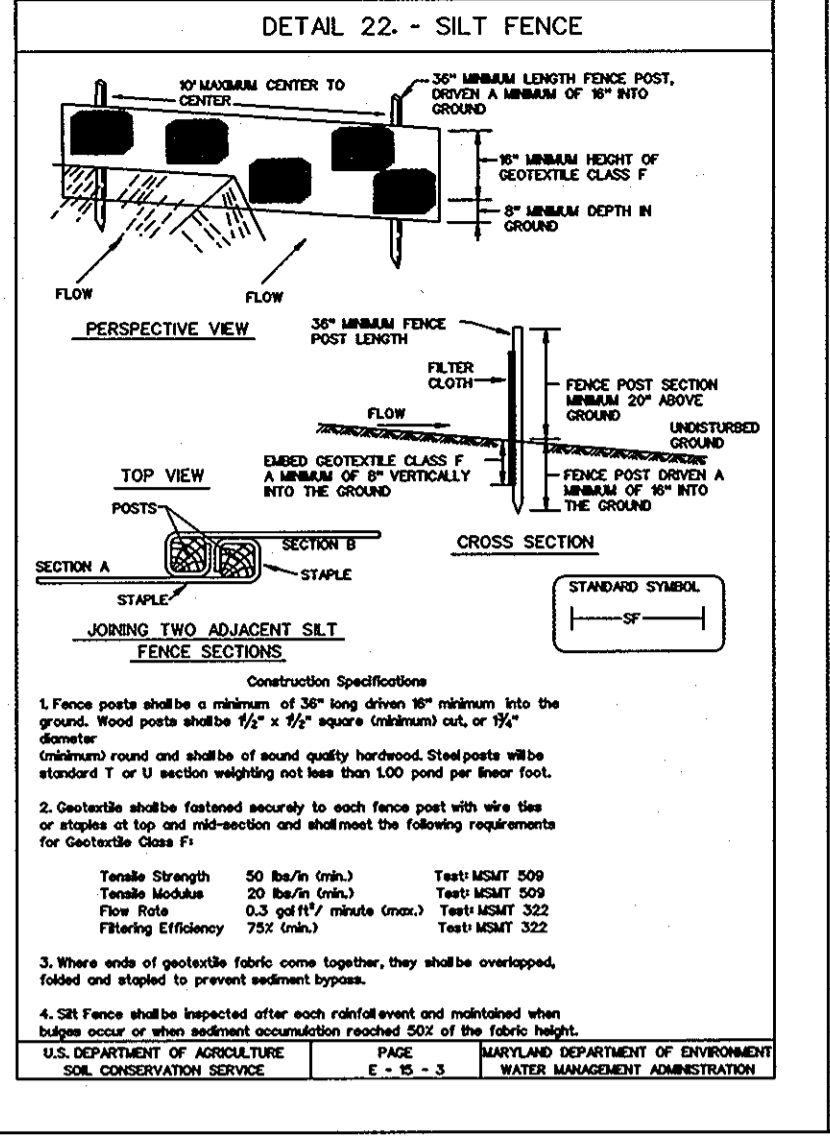
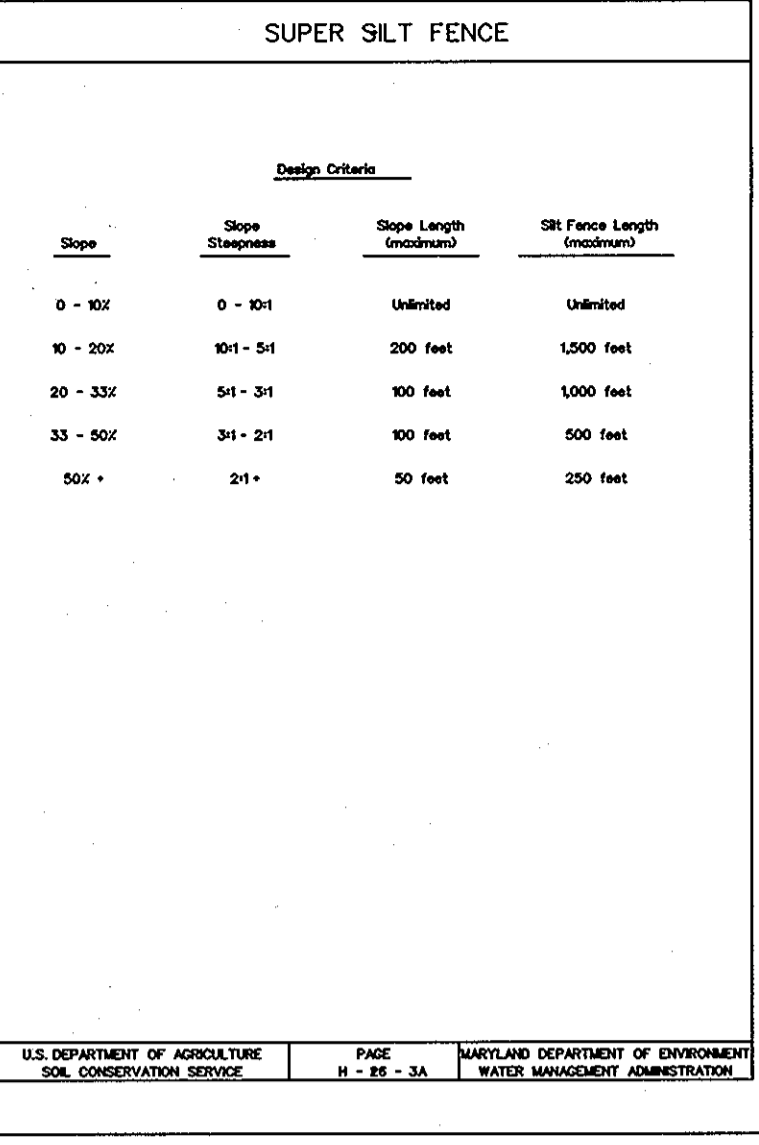
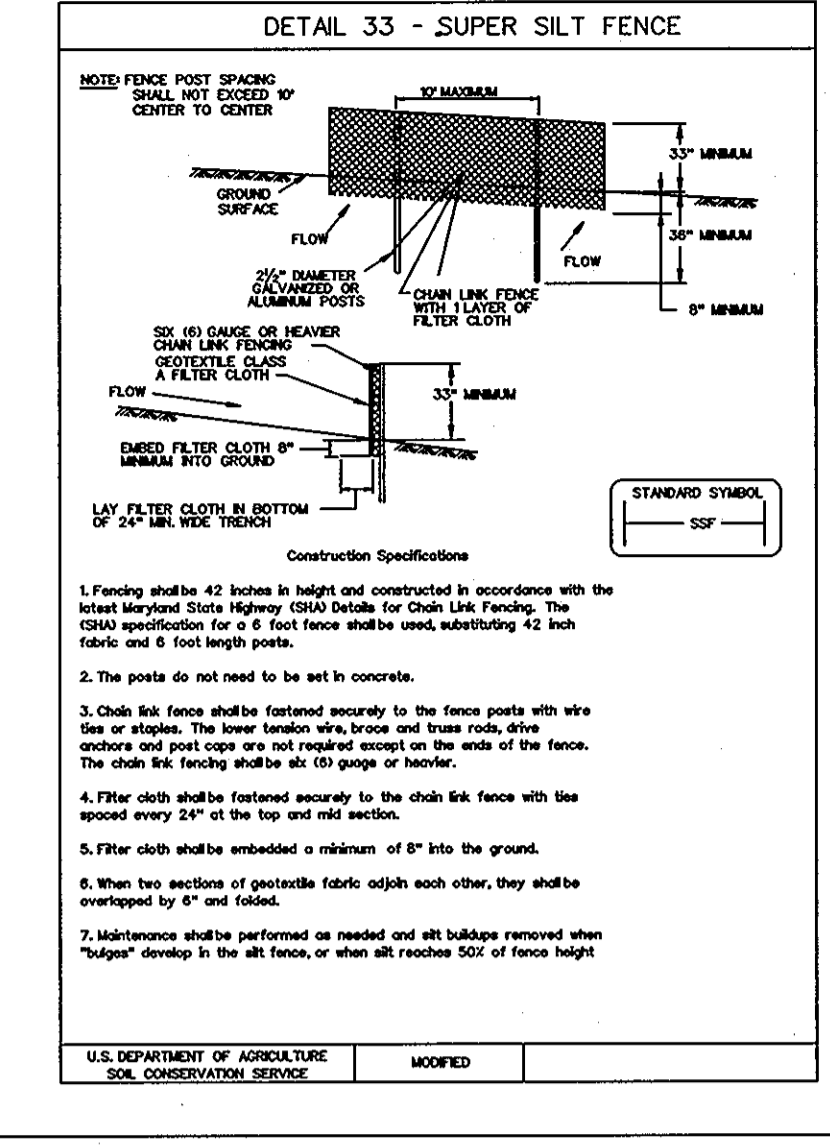
\* US STD. SIEVE 20-0225 \*\* 50 MM MAX. FOR SUPER SILT FENCE  
 THE PROPERTIES SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:  
 - APPEARANT OPENING SIZE MSMT 323  
 - GRAB TENSILE STRENGTH ASTM D 1682 4"x24" SPECIMEN 1"x2" CLAMPS, 12" MIN. STRAIN RATE IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILE FABRIC.  
 - BURST STRENGTH ASTM D 3786  
 THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS, AND WILL BE ROT AND MILDEW RESISTANT. IT SHALL BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS, AND COMPOSED OF A MINIMUM OF 95% BY WEIGHT OF POLYOLEPHINS, POLYESTERS, OR POLYAMIDES.  
 THE GEOTEXTILE FABRIC SHALL RESIST DETERIORATION FROM ULTRAVIOLET EXPOSURE.  
 IN ADDITION CLASSES A THROUGH E SHALL HAVE A 0.01 CM/SEC MINIMUM PERMEABILITY WHEN TESTED IN ACCORDANCE WITH MSMT 501, AND AN APPEARANT MINIMUM ELONGATION OF 20 PERCENT (20%) WHEN TESTED IN ACCORDANCE WITH MSMT 322.  
 GEOTEXTILE FABRICS USED IN THE CONSTRUCTION OF THE SILT FENCE SHALL RESIST DETERIORATION FROM ULTRAVIOLET EXPOSURE. THE FABRIC SHALL CONTAIN SUFFICIENT AMOUNTS OF ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 12 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120 DEGREES F.  
**SILT FENCE**  
 CLASS F GEOTEXTILE FABRICS FOR ALL SILT FENCE SHALL HAVE A 50LB./IN. MINIMUM TENSILE STRENGTH AND A 20 LB./IN. MINIMUM TENSILE MODULUS WHEN TESTED IN ACCORDANCE WITH MSMT 501. MATERIAL SHALL ALSO HAVE A 0.3 GAL./FT. SQUARE/ MIN. FLOW RATE AND SEVENTY-FIVE PERCENT (75%) MINIMUM FILTERING EFFICIENCY WHEN TESTED IN ACCORDANCE WITH MSMT 322.

**V. Topsoil Application**

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, atleast 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that my otherwise be detrimental to proper grading and seedbed preparation.

**VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:**

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
  - Composted Sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
  - Composted sludge shall contain at least 1 percent nitrogen, 15 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
  - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.



**SILT FENCE**

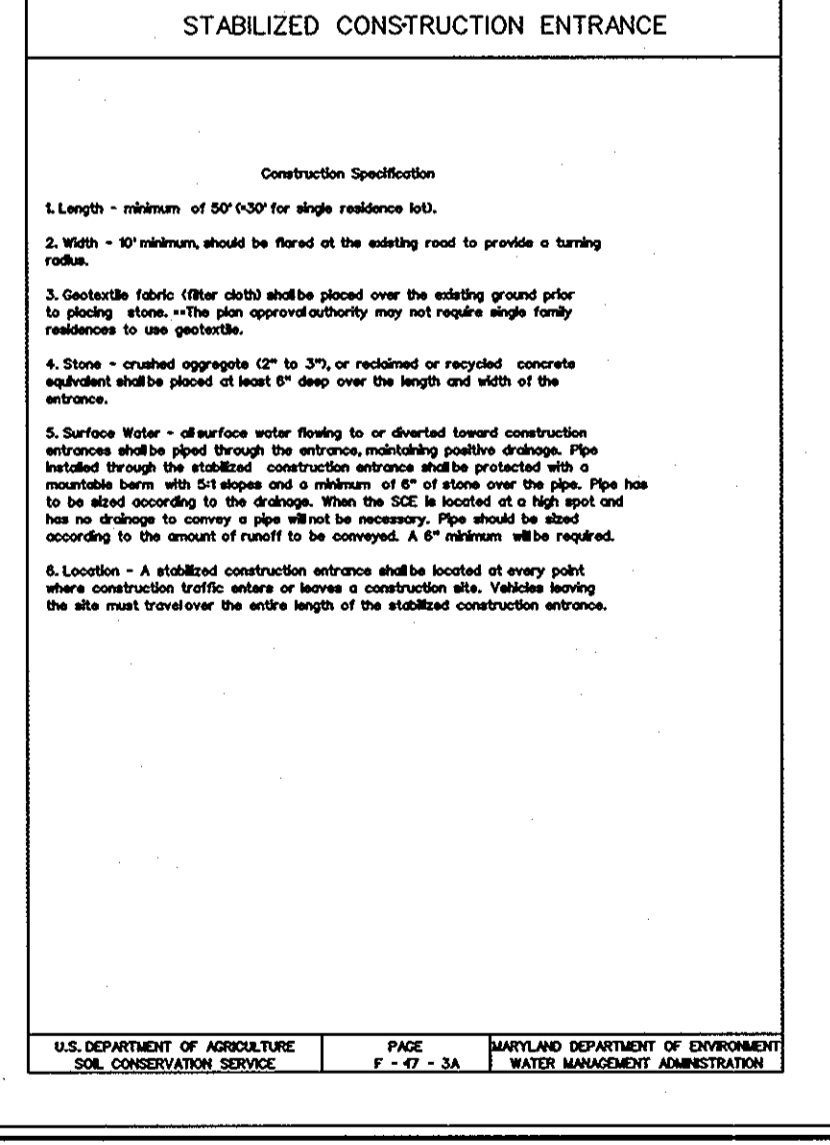
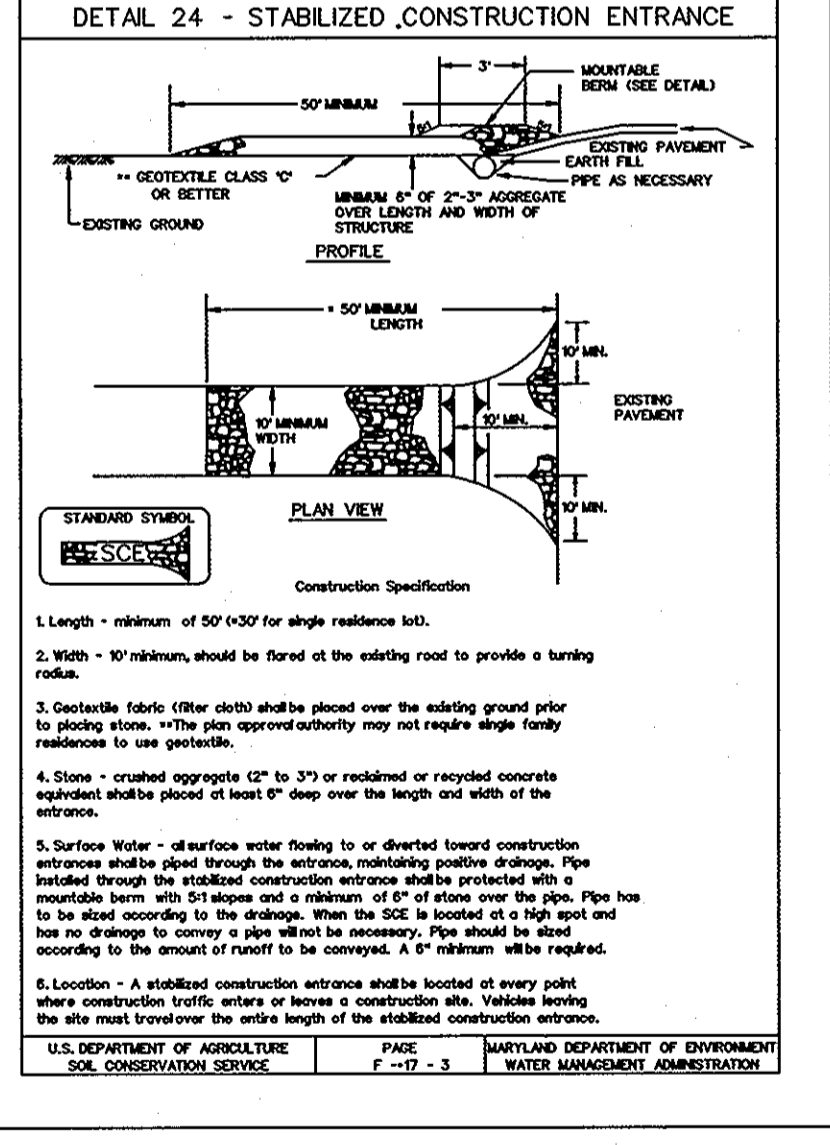
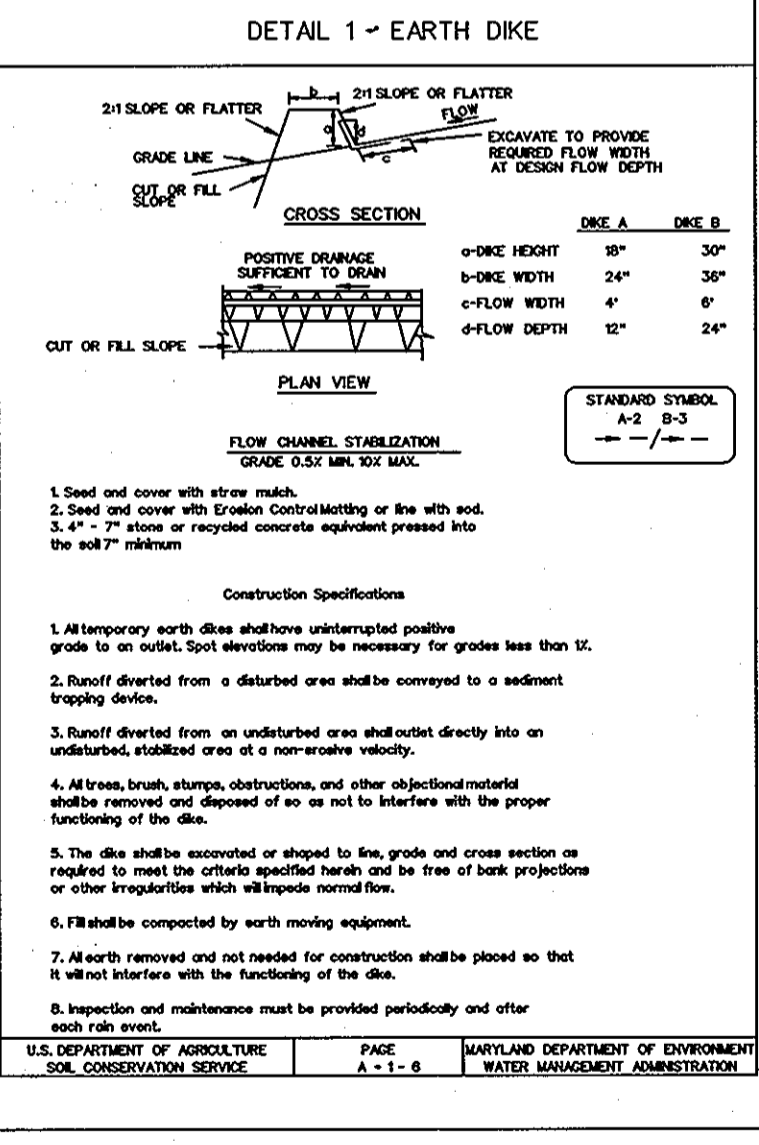
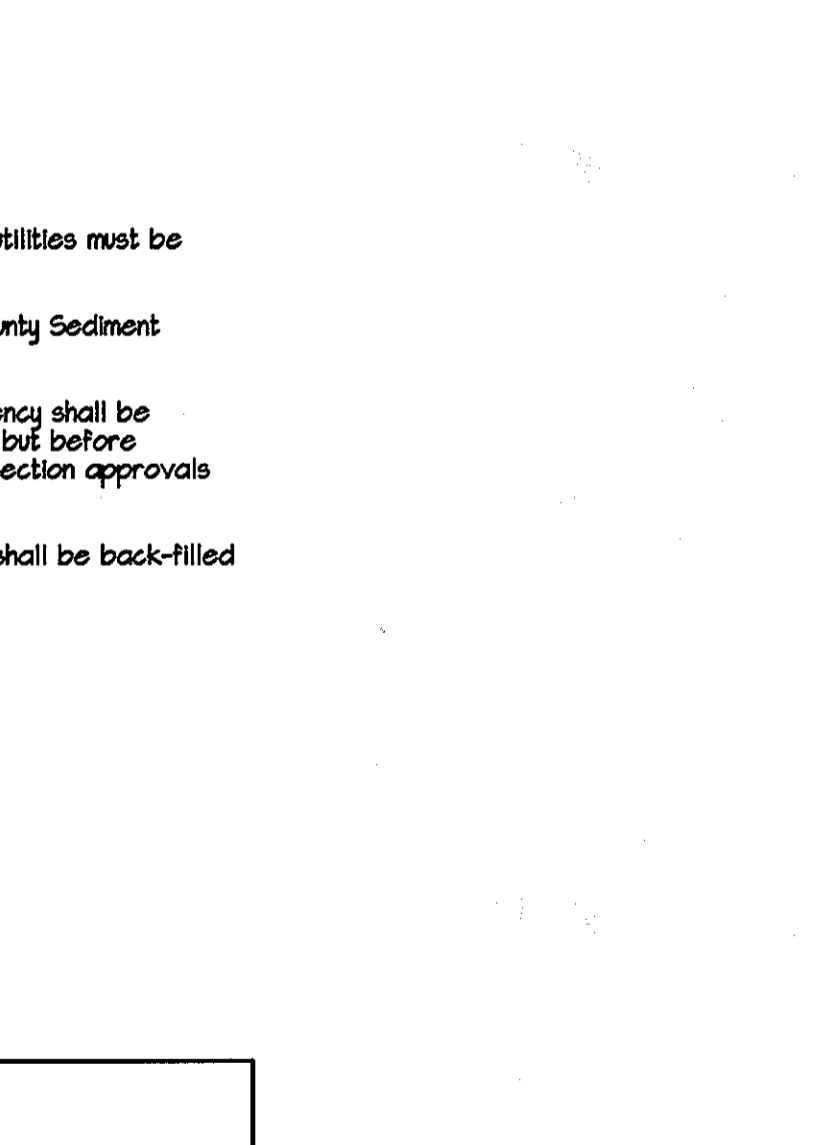
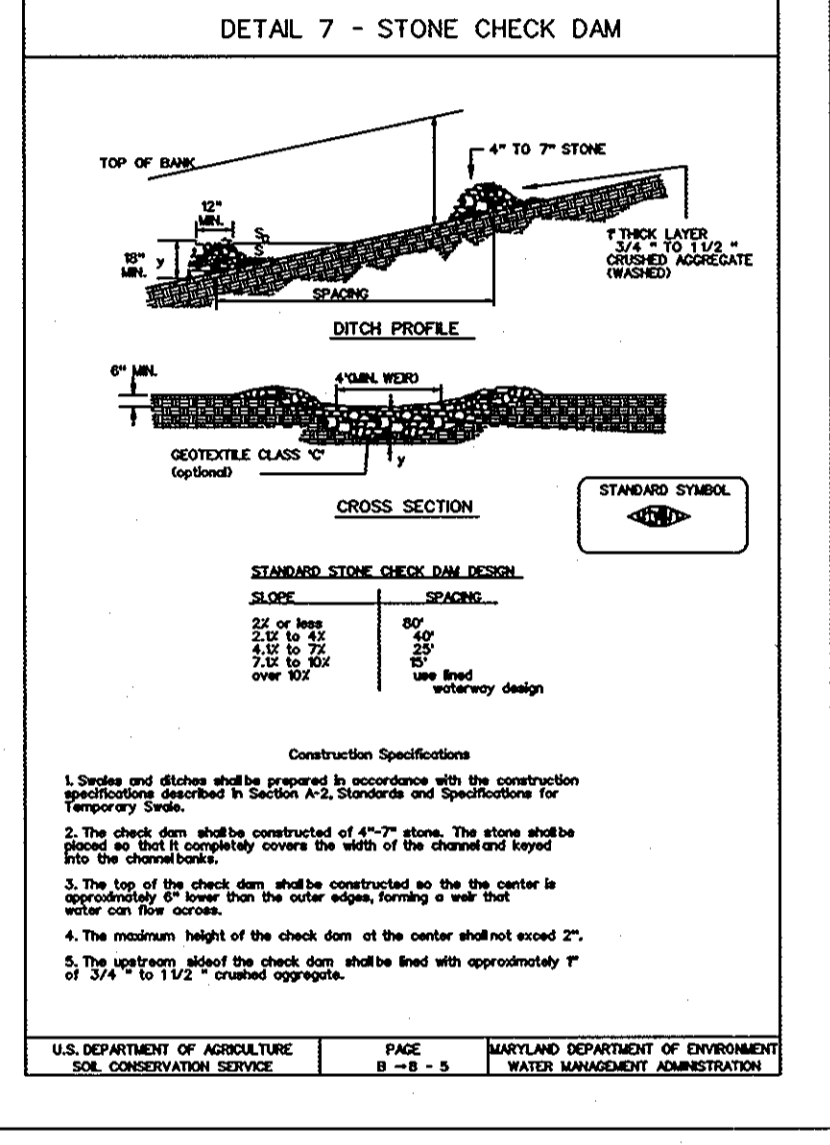
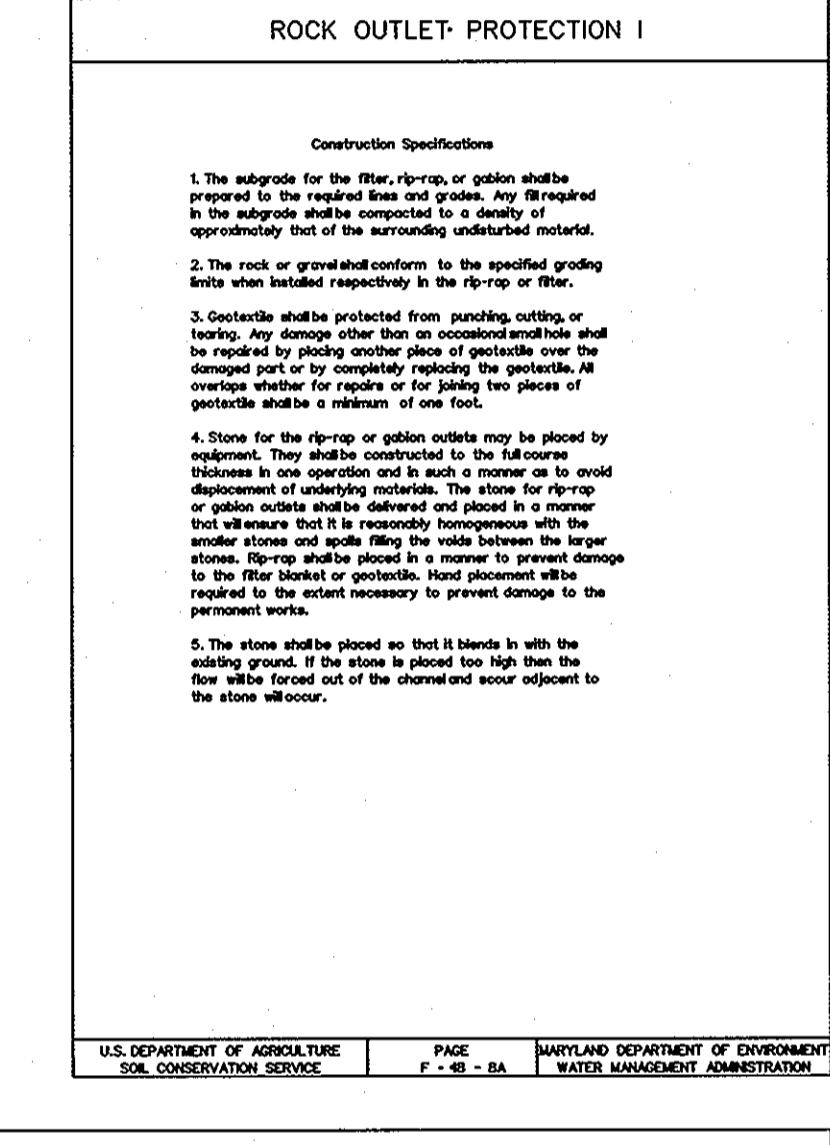
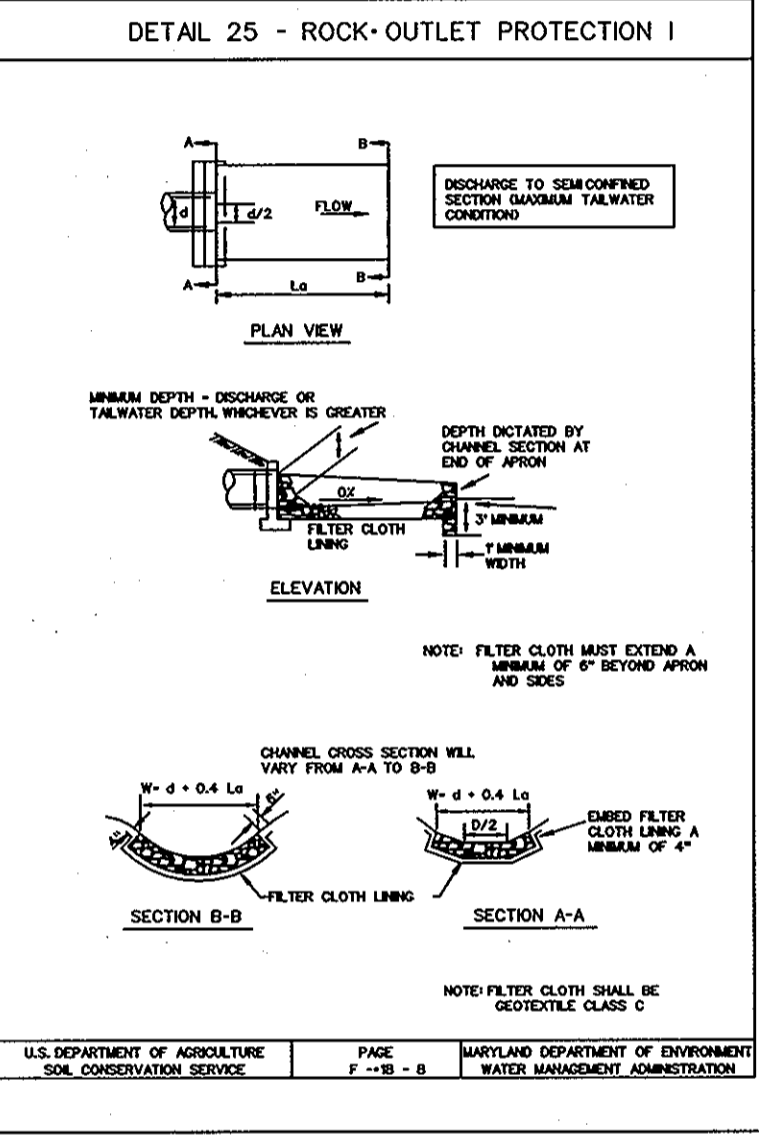
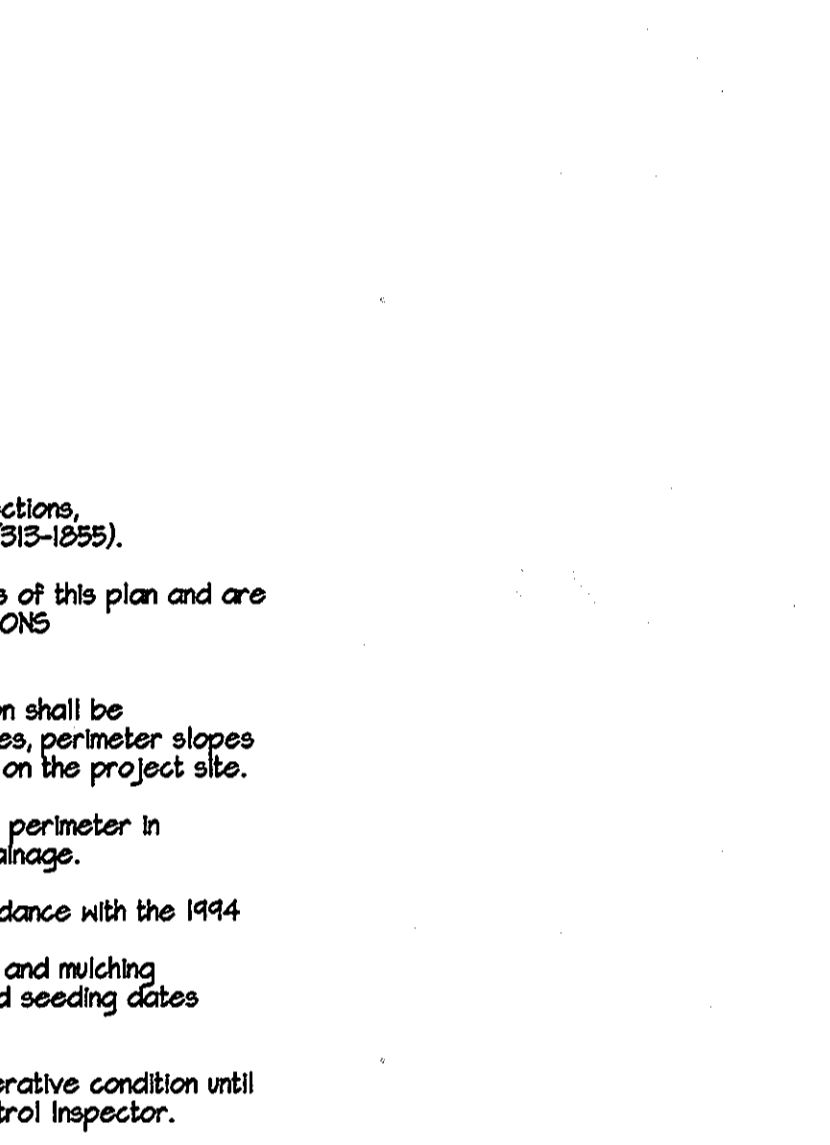
**Silt Fence Design Criteria**

| Slope Steepness   | Maximum Silt Fence Length | Minimum Silt Fence Length |
|-------------------|---------------------------|---------------------------|
| Flatter than 50:1 | Unlimited                 | Unlimited                 |
| 50:1 to 10:1      | 25 feet                   | 1,000 feet                |
| 10:1 to 5:1       | 40 feet                   | 750 feet                  |
| 5:1 to 3:1        | 60 feet                   | 500 feet                  |
| 3:1 to 2:1        | 80 feet                   | 250 feet                  |
| 2:1 and steeper   | 20 feet                   | 125 feet                  |

Note: In areas of less than 2:1 slope and steeper slope USDA general stabilization system methods at maximum slope length and all fence length will be unlimited. In these areas a silt fence may be the only practical control required.

**GENERAL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (513-1055).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, 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.
- 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.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (sec. 54), temporary seeding (sec. 52) 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.
- 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 Inspector.
- Site Analysis:
  - Total Area of Site: 12.41 Acres
  - Area Disturbed: 166 Acres
  - Area to be rooted or paved: 0.28 Acres
  - Area to be vegetatively stabilized: 1.40 Acres
  - Total Cut: 2328 Cu. Yds.
  - Total Fill: 2328 Cu. Yds.
  - Offsite waste/borrow area location: 0 Cu. Yds.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.



|   |  |  |  |
|---|--|--|--|
| <p>REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS</p> <p>DATE: 11/27/09</p> <p>FOR CHIEF, DEVELOPMENT ENGINEERING DIVISION</p> <p>DATE: 2/26/09</p> <p>DATE: 2/26/05</p>                    | <p>BY THE DEVELOPER:</p> <p>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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.</p> <p>FR. DENNIS P. DIEHL<br/>         PARISH CORP.<br/>         ST. FRANCIS OF ASSISI,<br/>         HOWARD COUNTY<br/>         ROMAN CATHOLIC CONGREGATION, INC.</p> | <p>BY THE ENGINEER:</p> <p>I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND FORTIFIABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.</p> <p>MINI K. CAMPZ<br/>         ENGINEER<br/>         DATE: 1-9-09</p> | <p>APPROVED:</p> <p>FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.</p> <p>DATE: 2/23/09</p>   |
| <p>OWNER</p> <p>WILLIAM H. KEIBLER<br/>         THE MOST REVEREND ROMAN CATH ARGH<br/>         210 N CHARLES ST. STE 400<br/>         BALTIMORE, MD 21201-4055<br/>         PHONE: (410) 527-7122</p> | <p>DEVELOPER</p> <p>WILLIAM H. KEIBLER<br/>         THE MOST REVEREND ROMAN CATH ARGH<br/>         210 N CHARLES ST. STE 400<br/>         BALTIMORE, MD 21201-4055<br/>         PHONE: (410) 527-7122</p>  | <p>ENGINEERS</p> <p>KCI TECHNOLOGIES<br/>         14502 GREENVIEW DRIVE<br/>         LAUREL, MARYLAND 20708<br/>         PHONE: (410) 792-8866<br/>         FAX: (410) 792-7419<br/>         WWW.KCI.COM</p>   | <p>CONSTRUCTION MANAGERS</p> <p>KCI TECHNOLOGIES<br/>         14502 GREENVIEW DRIVE<br/>         LAUREL, MARYLAND 20708<br/>         PHONE: (410) 792-8866<br/>         FAX: (410) 792-7419<br/>         WWW.KCI.COM</p> |

**SEDIMENT & EROSION CONTROL DETAILS & NOTES**

**ST. FRANCIS OF ASSISI SUBDIVISION**

**LOT 1**

**ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1**

ZONED RR-PDO  
 TAX MAP NO. 46 GRID 3  
 ELECTION DISTRICT 05  
 8300 OLD COLUMBIA ROAD  
 FULTON, MD 20794

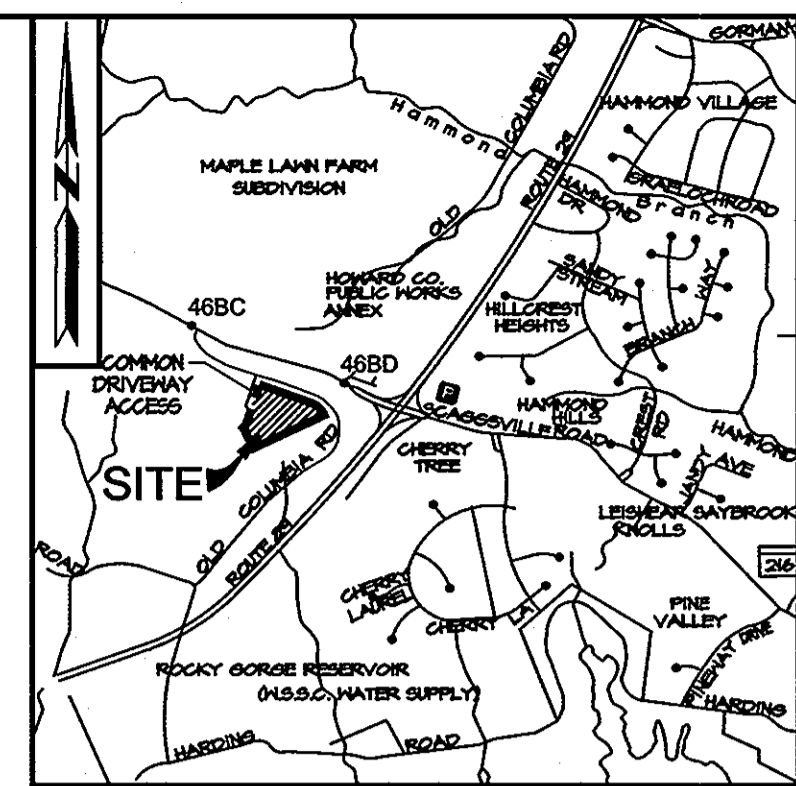
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**SITE NOTES**

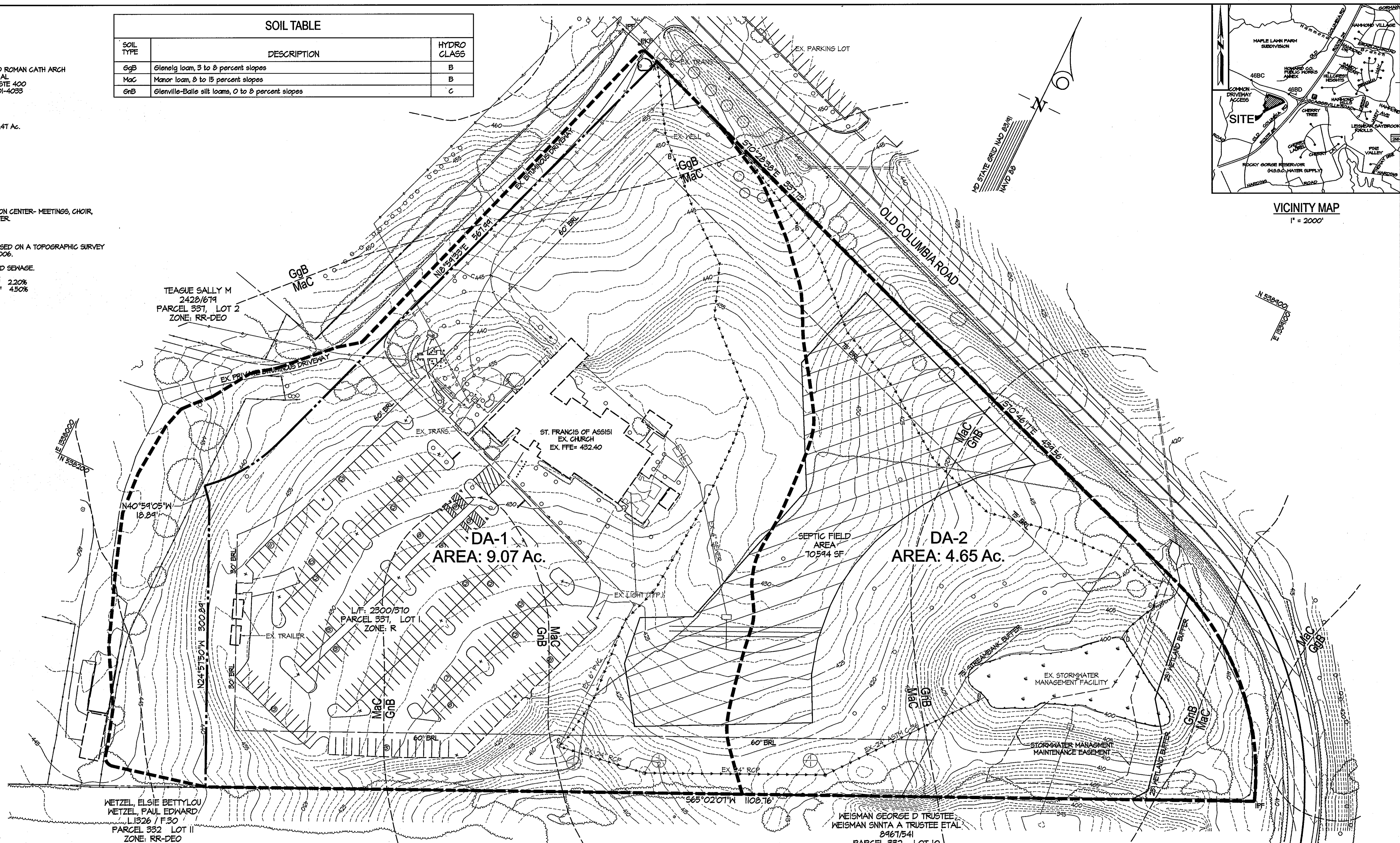
- APPLICANT/PROPERTY OWNER: WILLIAM H. KEELER, THE MOST REVEREND ROMAN CATH ARCH, C/O GALLAGHER ET AL, 218 N. CHARLES ST. STE 400, BALTIMORE, MD 21201-4033
- SITE DATA: TAX MAP 46, GRID 3, TAX ID NO.: 1405318864, TRACT AREA: 543,143 S.F. OR 12.47 AC., PART OF LOTS 1, PLAT NO. 10123, ELECTION DISTRICT: 5, ADC MAP: 14, GRID C-13, 200 SHEET NO.: 218NET, EXISTING ZONE: RR-DEO, SCHOOL PLANNING AREA: 112
- DEED REFERENCE: 02300/0510
- EXISTING USE: CHURCH, PROPOSED USE: ONE STORY FAITH FORMATION CENTER- MEETINGS, CHOIR, SUNDAY SCHOOL AND GROUP ACTIVITY CENTER
- NO DAYCARE IS PROPOSED.
- HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY BY KCI TECHNOLOGIES DATED OCTOBER, 2006.
- THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.
- BUILDING COVERAGE EXISTING 12,000 SF 2.20%, BUILDING COVERAGE PROPOSED 24,481 SF 4.50%

| SOIL TYPE | DESCRIPTION                                       | HYDRO CLASS |
|-----------|---|-------------|
| GgB       | Glenn loam, 3 to 8 percent slopes                 | B           |
| MaC       | Manor loam, 8 to 15 percent slopes                | B           |
| GnB       | Glennville-Balls silt loam, 0 to 8 percent slopes | C           |



| DRAINAGE AREA 1 - TR-55 |  |
|-------------------------|--|
| AREA:                   | 4.07 Ac.                               |
| RCA:                    | 75                                     |
| TIME OF CONCENTRATION   |  |
| A TO B:                 | 100' SHEET FLOW @ 1% SLOPE             |
| B TO C:                 | 700' SHALLOW CON. (UNPAVED) @ 6% SLOPE |
| C TO D:                 | 475' CHANNEL FLOW @ 1.0 FPS            |
| TIME = 0.181 HR.        |  |

| DRAINAGE AREA 2 - TR-55 |  |
|-------------------------|--|
| AREA:                   | 4.65 Ac.                               |
| RCA:                    | 65                                     |
| TIME OF CONCENTRATION   |  |
| A TO B:                 | 100' SHEET FLOW @ 1% SLOPE             |
| B TO C:                 | 700' SHALLOW CON. (UNPAVED) @ 6% SLOPE |
| C TO D:                 | 441' CHANNEL FLOW @ 5.0 FPS            |
| TIME = 0.121 HR.        |  |



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE  
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SCD  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DATE: 2/26/09

DATE: 2/26/09

DATE: 2/26/09

BY THE DEVELOPER:

I HEREBY 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DATE: 1/4/09

FR. DENNIS P. DIEHL, F.A.R.I.S.H. CORP., ST. FRANCIS OF ASSISI, HOWARD COUNTY ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:

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 HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DATE: 1.9.09

ENGINEER

APPROVED:

FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

DATE: 2/23/09

COUNTY HEALTH OFFICER

**LEGEND**

|     |                         |     |     |     |                            |
|-----|-------------------------|-----|-----|-----|----------------------------|
| --- | PROPERTY LINE           | --- | 435 | --- | PROP. MAJOR CONTOUR        |
| --- | EX. BUILDING            | --- | --- | --- | PROP. MINOR CONTOUR        |
| --- | EX. EDGE OF PAVEMENT    | --- | --- | --- | PROP. BUILDING             |
| --- | EX. SIDEWALK            | --- | --- | --- | LIMIT OF DISTURBANCE       |
| --- | EX. FENCE               | --- | --- | --- | SILT FENCE                 |
| --- | EX. MAJOR CONTOUR       | --- | --- | --- | SUPER SILT FENCE           |
| --- | EX. MINOR CONTOUR       | --- | --- | --- | CLEAN WATER DIVERSION DIKE |
| --- | EX. SANITARY SEWER LINE | --- | --- | --- | SOIL LINE                  |
| --- | EX. STORM DRAIN LINE    | --- | --- | --- | EX. DRAINAGE AREA          |
| --- | EX. WATER LINE          | --- | --- | --- | PROP. DRAINAGE AREA        |
| --- | EX. GAS LINE            | --- | --- | --- | EX. SEPTIC FIELD           |
| --- | EX. ELECTRIC LINE       | --- | --- | --- |                            |

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25058

EXPIRATION DATE: 11-17-10

**EXISTING DRAINAGE AREA MAP**

ST. FRANCIS OF ASSISI SUBDIVISION LOT 1

ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1

ZONED RR-DEO  
TAX MAP No. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20784

SCALE: 1" = 50'

ISSUE DATE: 12-22-08  
SHEET 1 OF 14

| Drafting | CS  | DATE | REVISIONS |
|----------|-----|------|-----------|
| Check    | THM |      |           |
| Design   | NAB |      |           |
| Check    | MKG |      |           |

**KCI TECHNOLOGIES**

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

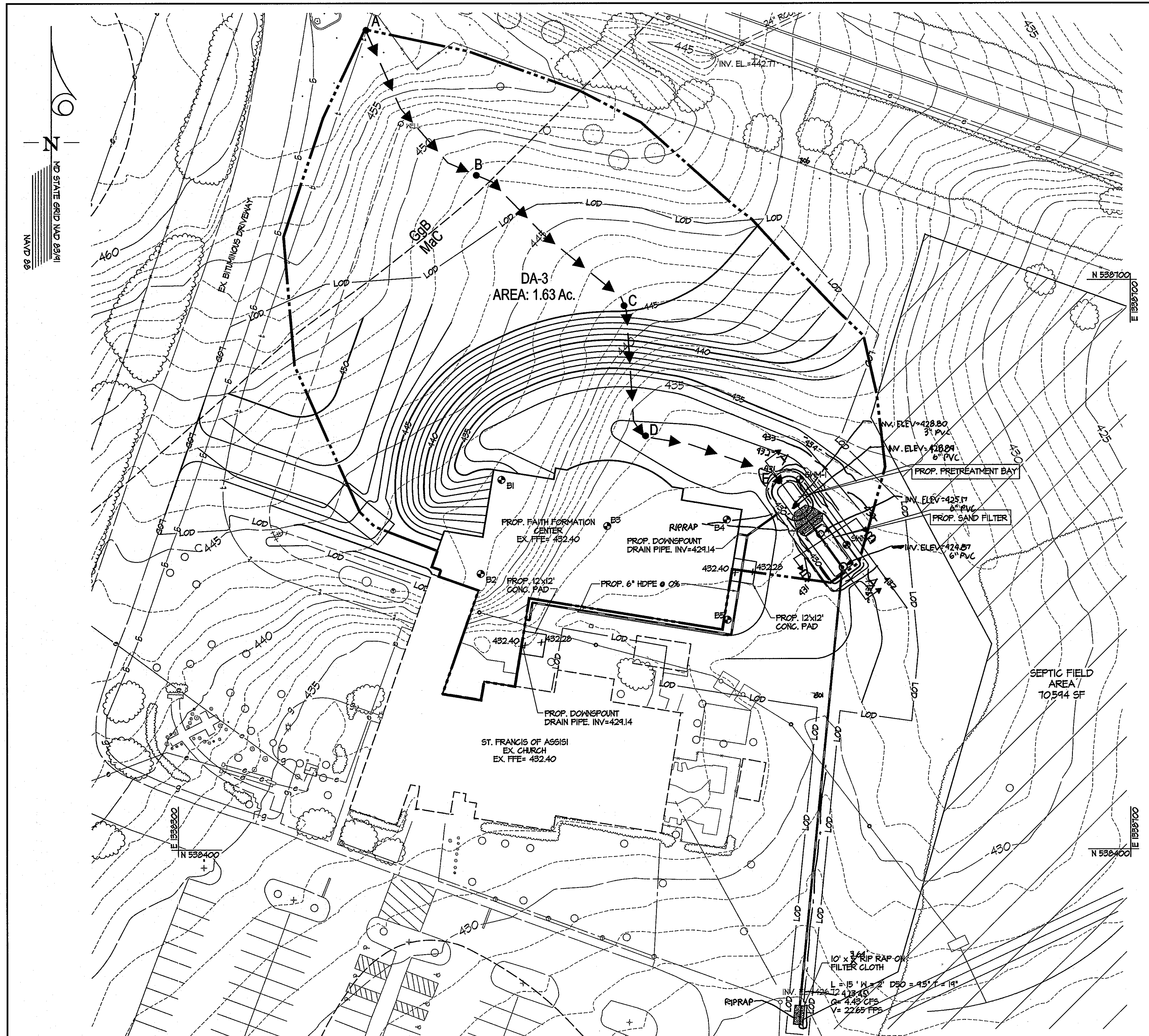
14302 GREENVIEW DRIVE  
LAUREL, MARYLAND 20708  
PHONE: (410) 792-8886  
FAX: (410) 792-7419  
WWW.KCI.COM

**OWNER**

WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 721-7102

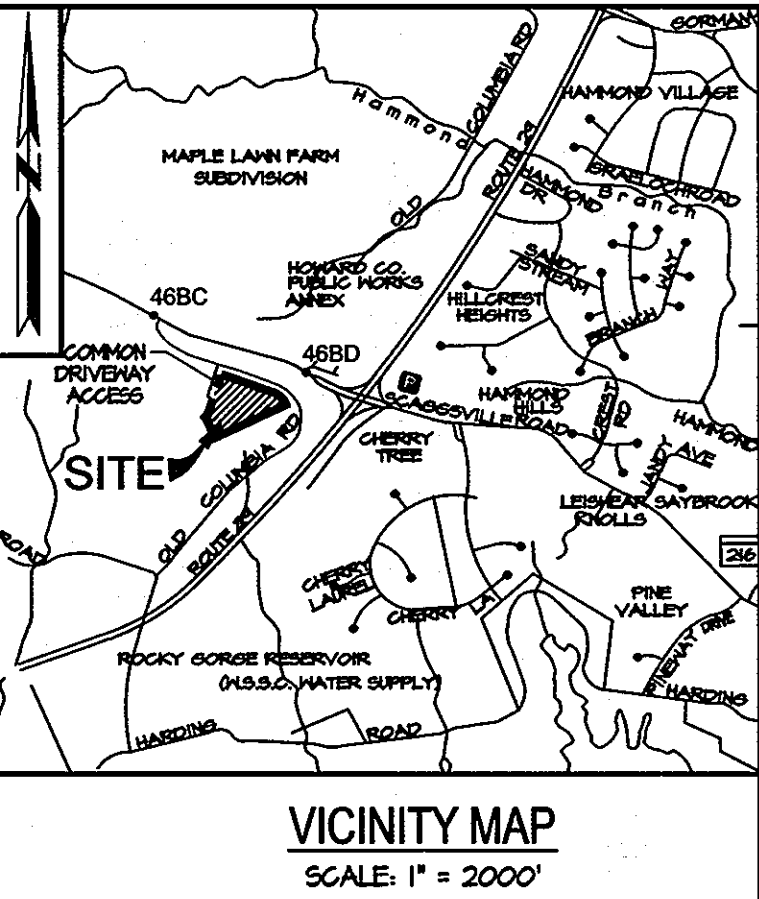
**DEVELOPER**

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THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4033  
PHONE: (410) 721-7102



- ### GENERAL NOTES
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 

|  |                |
|--|----------------|
| MISS UTILITY                                   | 1-800-251-7777 |
| VERIZON TELEPHONE COMPANY                      | (410) 752-4916 |
| HOWARD COUNTY BUREAU OF UTILITIES              | (410) 942-2366 |
| AT&T CABLE LOCATION DIVISION                   | (410) 945-3553 |
| BALTIMORE GAS & ELECTRIC COMPANY               | (410) 685-0123 |
| STATE HIGHWAY ADMINISTRATION                   | (410) 531-5533 |
| HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION | (410) 913-1800 |
  - TOPO TAKEN FROM FIELD SURVEY DATED OCTOBER, 2006 BY KCI TECHNOLOGIES INC.
  - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
  - INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
  - ALL ON-SITE PARKING AND DRAINAGE STRUCTURES SHALL BE PRIVATELY OWNED & MAINTAINED.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
  - THIS PLAN IS SUBJECT TO BUREAU'S EDITION OF THE SUBDIVISION REGULATIONS AND THE NEW ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 50-2001.
  - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
  - STORMWATER MANAGEMENT WILL BE PROVIDED THROUGH STRUCTURAL SWM PRACTICES 1e: SAND FILTER.
  - AN AFPO STUDY IS EXEMPT PER DMVIII SECTION 4.7.4.G.
  - THIS SITE IS IN THE PATUXENT RIVER WATERSHED AND IS CLASSIFIED AS A USE IV.
  - THIS PROJECT IS CONDITIONALLY EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION WITH THE FILING OF A DECLARATION OF INTENT FOR SINGLE LOT CLEARING LESS THAN 40,000 SQUARE FEET OF FOREST.
  - THERE ARE STEEP SLOPES, WETLANDS, STREAMS OR FLOOD PLAINS ON THIS SITE. NO DISTURBANCE IN THE ENVIRONMENTAL AREA IS PROPOSED.



### STORMWATER MANAGEMENT SUMMARY TABLE

| AREA | WATER QUALITY |             | RECHARGE    |           | CPV                 | SWM METHOD   |
|------|---------------|-------------|-------------|-----------|---------------------|--|
|      | REQUIRED      | PROVIDED    | REQUIRED    | PROVIDED  |                     |  |
| DA-3 | 1.63 AC.      | 1,021.80 CF | 1,094.66 CF | 296.92 CF | 342.56 CF<br>297 CF | THE 1-YEAR STORM IS LESS THAN 2 CFS THEREFORE CPV IS NOT REQUIRED. |



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 031093. EXPIRATION DATE: 11-21-13

- ### LEGEND
- PROPERTY LINE
  - EX. BUILDING
  - EX. EDGE OF PAVEMENT
  - EX. SIDEWALK
  - EX. FENCE
  - EX. MAJOR CONTOUR
  - EX. MINOR CONTOUR
  - EX. SANITARY SEWER LINE
  - EX. STORM DRAIN LINE
  - EX. WATER LINE
  - EX. GAS LINE
  - EX. ELECTRIC LINE
  - PROP. MAJOR CONTOUR
  - PROP. MINOR CONTOUR
  - PROP. BUILDING
  - LIMIT OF DISTURBANCE
  - SILT FENCE
  - SUPER SILT FENCE
  - CLEAN WATER DIVERSION DIKE
  - SOIL LINE
  - STABILIZED CONSTRUCTION ENTRANCE
  - DRAINAGE AREA
  - CHECK DAM
  - EX. SEPTIC FIELD

### DRAINAGE AREA 3 - TR-55

AREA: 1.63 Ac.  
RCN: 61

### TIME OF CONCENTRATION

A TO B: 100' SHEET FLOW @ 10%  
B TO C: 107' SHALLOW CON. (UNPAVED) @ 6.25%  
C TO D: 60' SHALLOW CON. (UNPAVED) @ 53.5%  
D TO E: 20' CHANNEL FLOW  
TIME = 0.145 HR.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE  
This development plan is approved for location and control by the HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SCD  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 02/01/09  
DATE: 2/25/09  
DATE: 2/26/09

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DIRECTOR

BY THE DEVELOPER:

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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

FR. DENNIS P. DIEHL  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.

DATE: 1/6/09

BY THE ENGINEER:

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 COUNTY SOIL CONSERVATION DISTRICT.

MEIN K. LEWIS  
ENGINEER

DATE: 1-9-09

APPROVED:

FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

B. NICHOLSON  
COUNTY HEALTH OFFICER

DATE: 2/23/09

| Drafting | CS  | DATE | REVISIONS |
|----------|-----|------|-----------|
| Check    | THM |      |           |
| Design   | NAB |      |           |
| Check    | MKC |      |           |

**KCI TECHNOLOGIES**  
ENGINEERS, PLANNERS, SCIENTISTS, CONSTRUCTION MANAGERS

14302 GREENVIEW DRIVE  
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BALTIMORE, MD 21201-4055  
PHONE: (410) 727-1702

**DEVELOPER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
610 GALLAGHER ST. AL  
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BALTIMORE, MD 21201-4055  
PHONE: (410) 727-1702

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25038. EXPIRATION DATE: 11-17-10

### STORMWATER MANAGEMENT PLAN

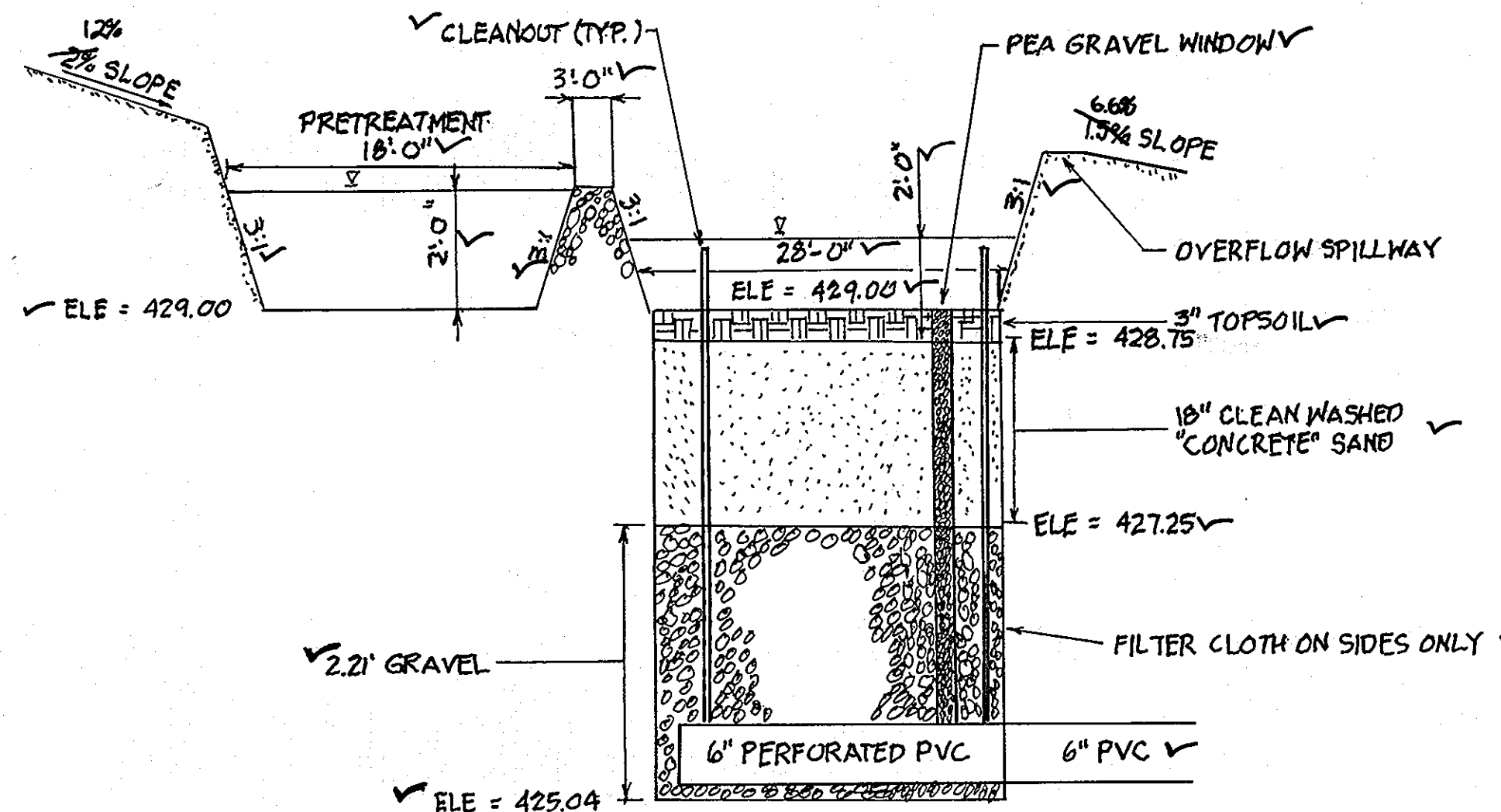
ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION  
PHASE 1

ZONED RR-DEO  
TAX MAP NO. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20784

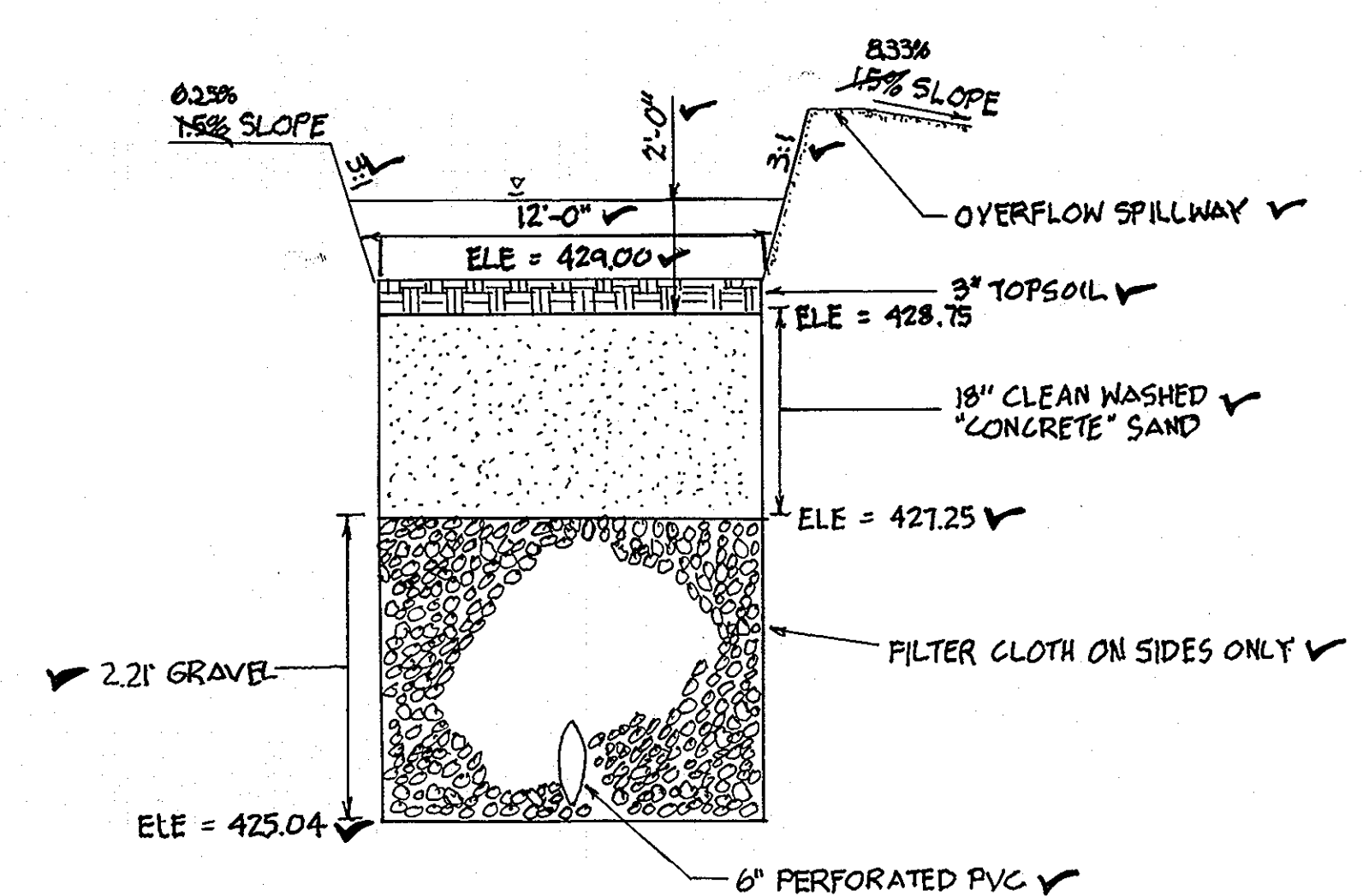
SCALE: 1" = 30'

ISSUE DATE: 12-22-08  
SHEET 8 OF 14





SAND FILTER CROSS SECTION A-A  
NOT TO SCALE



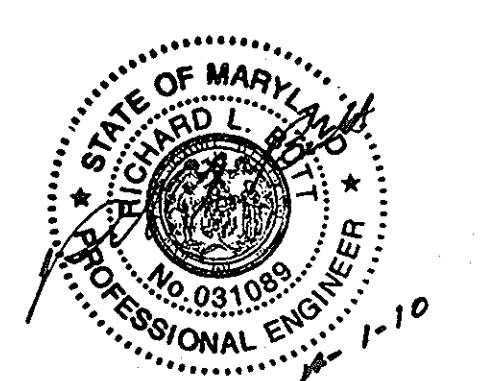
SAND FILTER CROSS SECTION B-B  
NOT TO SCALE

Table B.3.1 Material Specifications for Sand Filters

| Material                        | Specification  | Quantity  | Notes  |
|---------------------------------|--|---|--|
| sand                            | clean AASHTO-M-6 or ASTM-C-33 concrete sand  | 0.02" to 0.04"                                      | Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium carbonate or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.   |
| peat                            | ash content < 15%<br>pH range: 5.2 to 4.9<br>loose bulk density 0.12 to 0.15 g/cc  | n/a   | The material must be root-edge hemic peat, shredded, uncompacted, uniform, and clean.  |
| leaf compost                    |  | n/a   |  |
| underdrain gravel               | AASHTO-M-43  | 0.375" to 0.75"                                     |  |
| geotextile fabric (if required) | ASTM-D-4833 (puncture strength - 125 lb.)<br>ASTM-D-4632 (Tensile Strength - 300 lb.)  | 0.08" thick<br>equivalent opening size of #80 sieve | Must maintain 125 gpm per sq. ft. flow rate. Note: a 4" pea gravel layer may be substituted for geotextiles meant to "separate" sand filter layers.  |
| impermeable liner (if required) | ASTM-D-4833 (thickness)<br>ASTM-D-412 (tensile strength 1,100 lb., elongation 200%)<br>ASTM-D-624 (Tear resistance - 150 lb/ft)<br>ASTM-D-471 (water absorption: +3 to -2% mass) | 30 mil thickness                                    | Liner to be ultraviolet resistant. A geotextile fabric should be used to protect the liner from puncture.  |
| underdrain piping               | F 758, Type P8 28 or AASHTO-M-278  | 4" - 6" rigid<br>schedule 40 PVC<br>or SDR35        | 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underdrain pipes   |
| concrete (cast-in-place)        | MSHA Standards and Specs.<br>Section 902, Mix No. 3, f' = 3500<br>psi, normal weight, air-entrained,<br>re-inforcing to meet ASTM-615-60   | n/a   | on-site testing of poured-in-place concrete required:<br>28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland |
| concrete (pre-cast)             | per pre-cast manufacturer  | n/a   | SEE ABOVE NOTE   |
| non-rebar steel                 | ASTM A-36  | n/a   | structural steel to be hot-dipped galvanized ASTM-A-123  |

OPERATION AND MAINTENANCE SCHEDULE FOR SAND FILTERS

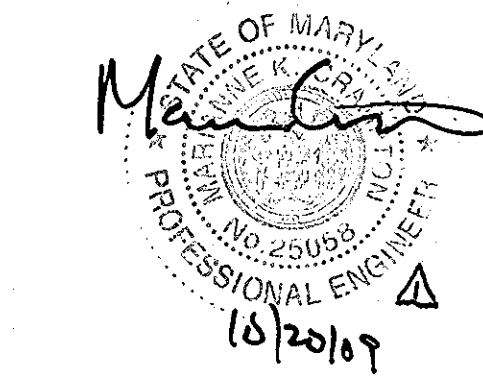
1. THE STORMWATER WETLAND FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
2. THE TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOVED A MINIMUM OF ONCE PER YEAR, WHEN VEGETATION REACHES 18" IN HEIGHT OR AS NEEDED.
3. FILTERS THAT HAVE A GRASS COVER SHALL BE MOVED A MINIMUM OF THREE (3) TIMES PER GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 12 INCHES.
4. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
5. VISIBLE SIGNS OF EROSION IN THE FACILITY SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
6. REMOVE SILT WHEN IT EXCEEDS FOUR (4) INCHES DEEP IN THE FOREBAY.
7. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 12 HOURS, THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED BY THE OWNER.
8. A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
9. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
10. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION SYSTEM HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.



AS-BUILT

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31089. EXPIRATION DATE: 11-20-12.

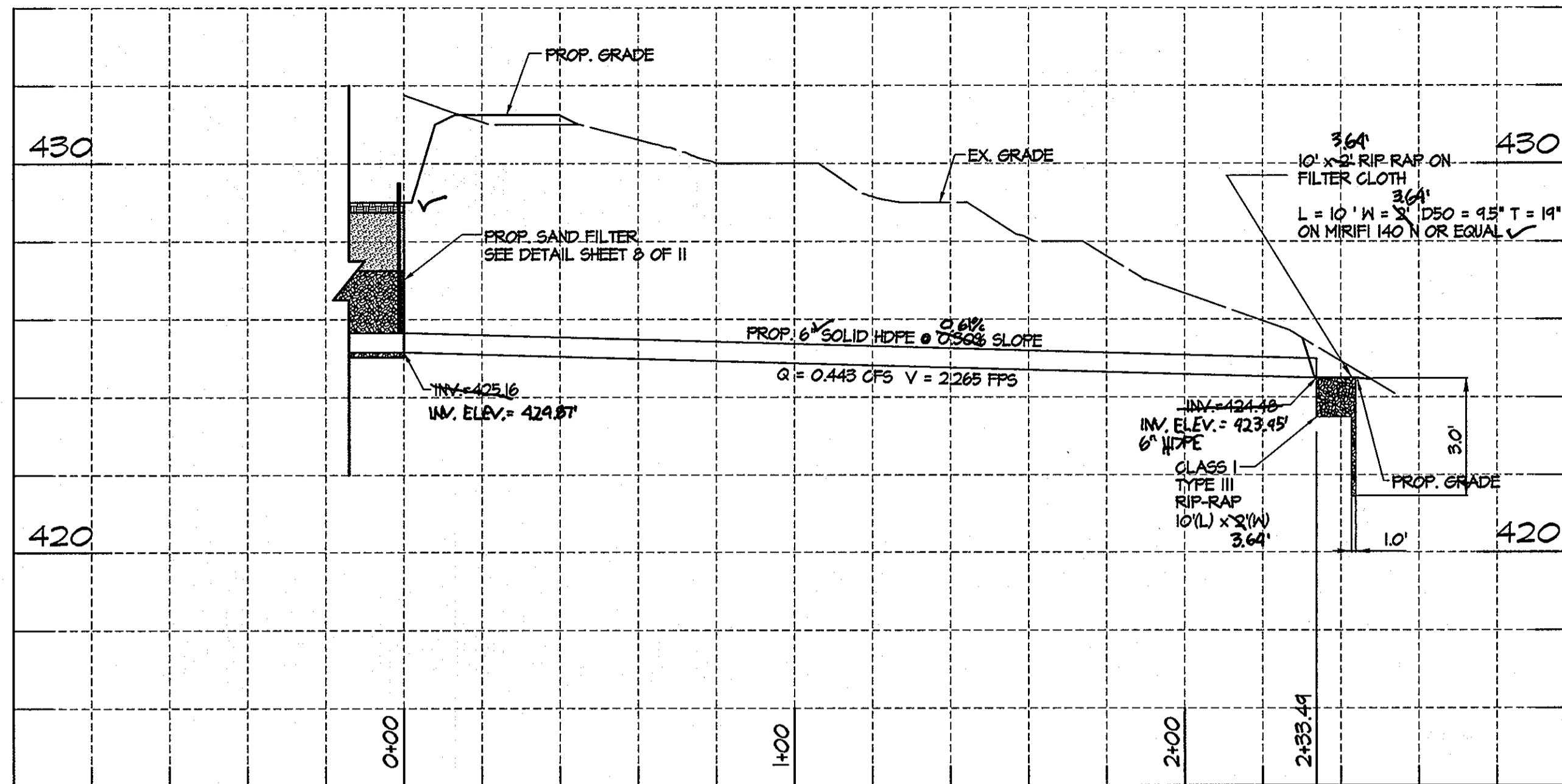
|  |  |   |  |   |  |  |  |
|--|--|---|--|---|--|--|--|
| REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS<br>HOWARD SCD<br>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.<br>[Signature] DATE: 02/26/09<br>[Signature] DATE: 2/26/09<br>[Signature] DATE: 2/26/09 |  | BY THE DEVELOPER:<br>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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.<br>[Signature] DATE: 1/6/09<br>FR. DENNIS P. DIEHL, PARISH CORP., ST. FRANCIS OF ASSISI, HOWARD COUNTY, ROMAN CATHOLIC CONGREGATION, INC. |  | BY THE ENGINEER:<br>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.<br>[Signature] DATE: 1-9-09<br>[Signature] DATE: 1-9-09 |  | APPROVED:<br>FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.<br>[Signature] DATE: 2/23/09<br>COUNTY HEALTH OFFICER                             |  |
| Drafting CS DATE<br>Check THM<br>Design NAB<br>Check MKC 9-1-09 SAND FILTER CROSS SECTION  |  | ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS<br>14002 GREENVIEW DRIVE LAUREL, MARYLAND 20708<br>PHONE: (410) 792-8086<br>FAX: (410) 792-7419<br>WWW.KCI.COM  |  | OWNER<br>WILLIAM H. KEELER<br>THE MOST REVEREND ROMAN CATH ARCH<br>610 GALLAGHER ET AL<br>210 N CHARLES ST, STE 400<br>BALTIMORE, MD 21201-4099<br>PHONE: (410) 721-7122  |  | DEVELOPER<br>WILLIAM H. KEELER<br>THE MOST REVEREND ROMAN CATH ARCH<br>610 GALLAGHER ET AL<br>210 N CHARLES ST, STE 400<br>BALTIMORE, MD 21201-4099<br>PHONE: (410) 721-7122 |  |



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25059. EXPIRATION DATE: 11-17-10.

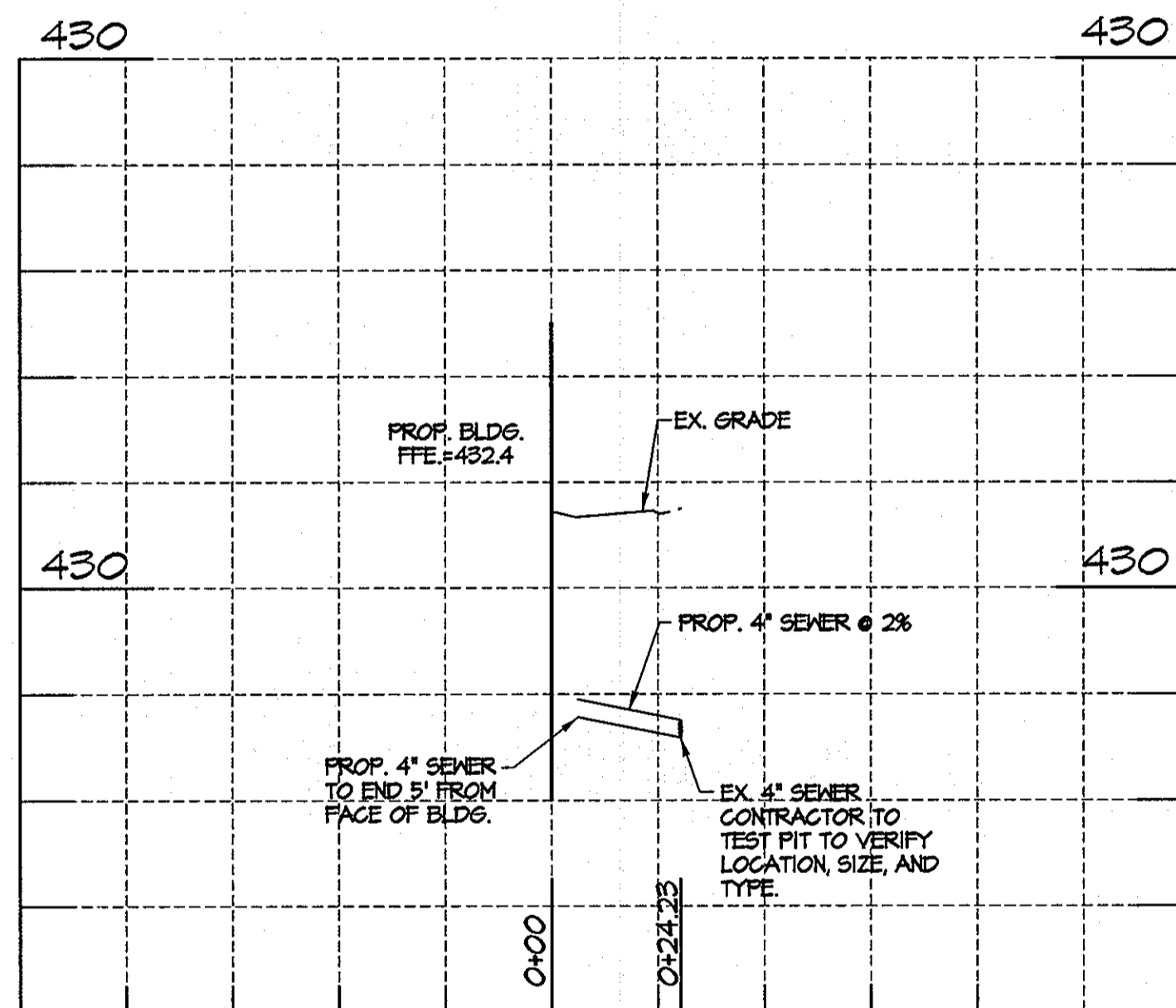
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 FULTON, MD 20784

NOT TO SCALE  
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 SHEET 9 OF 14



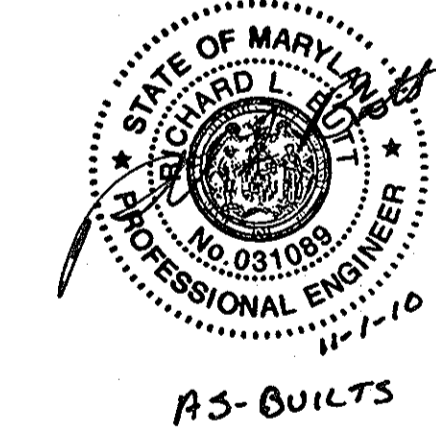
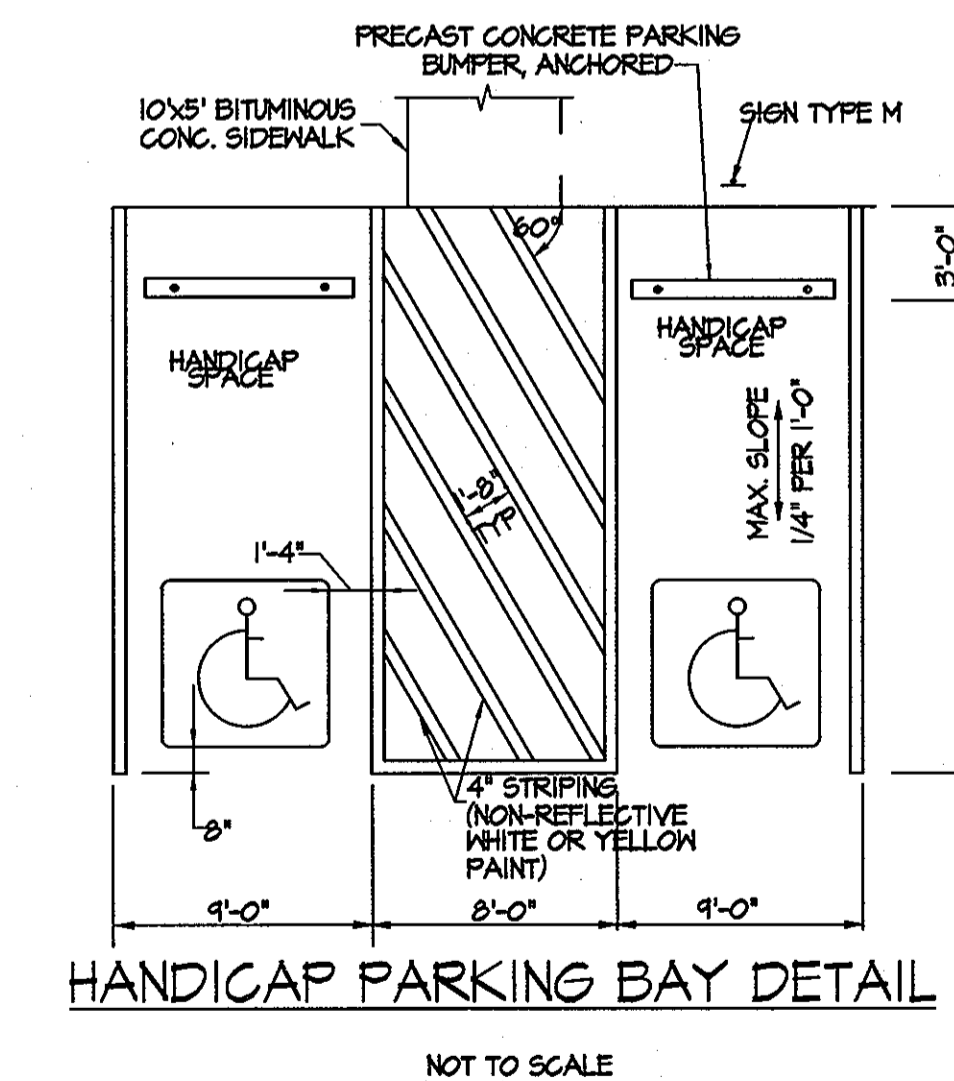
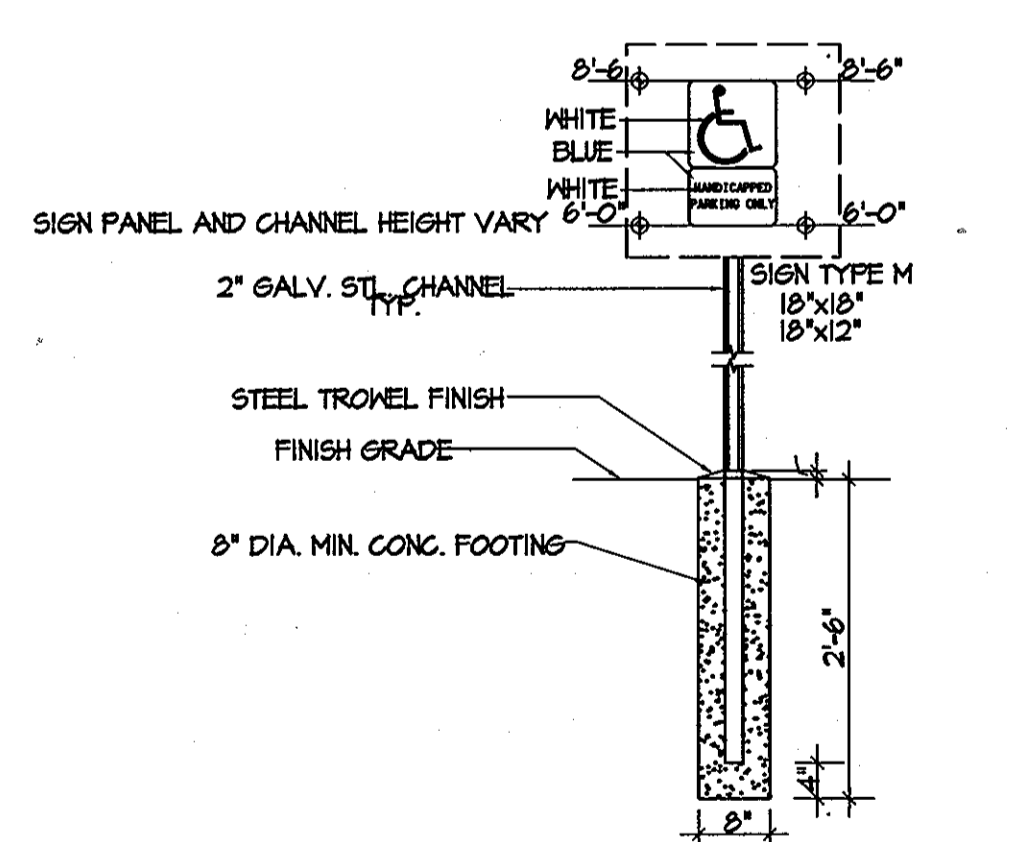
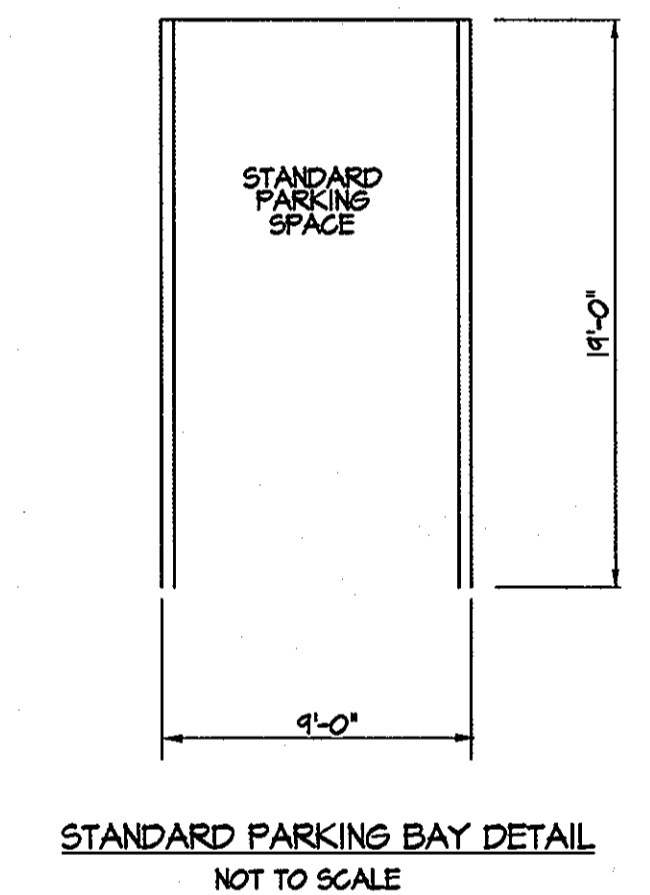
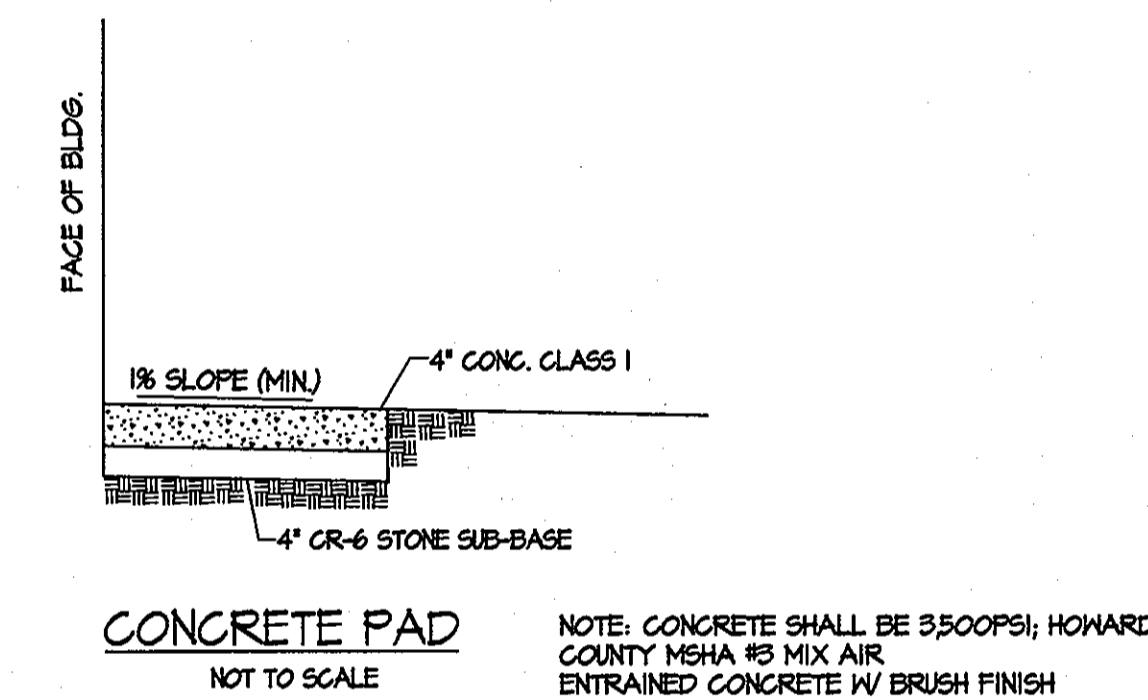
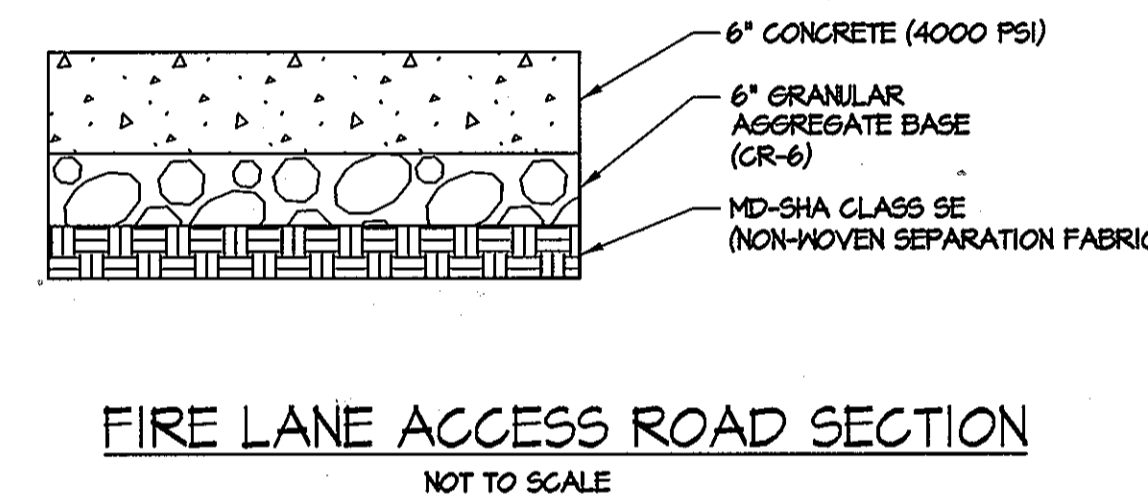
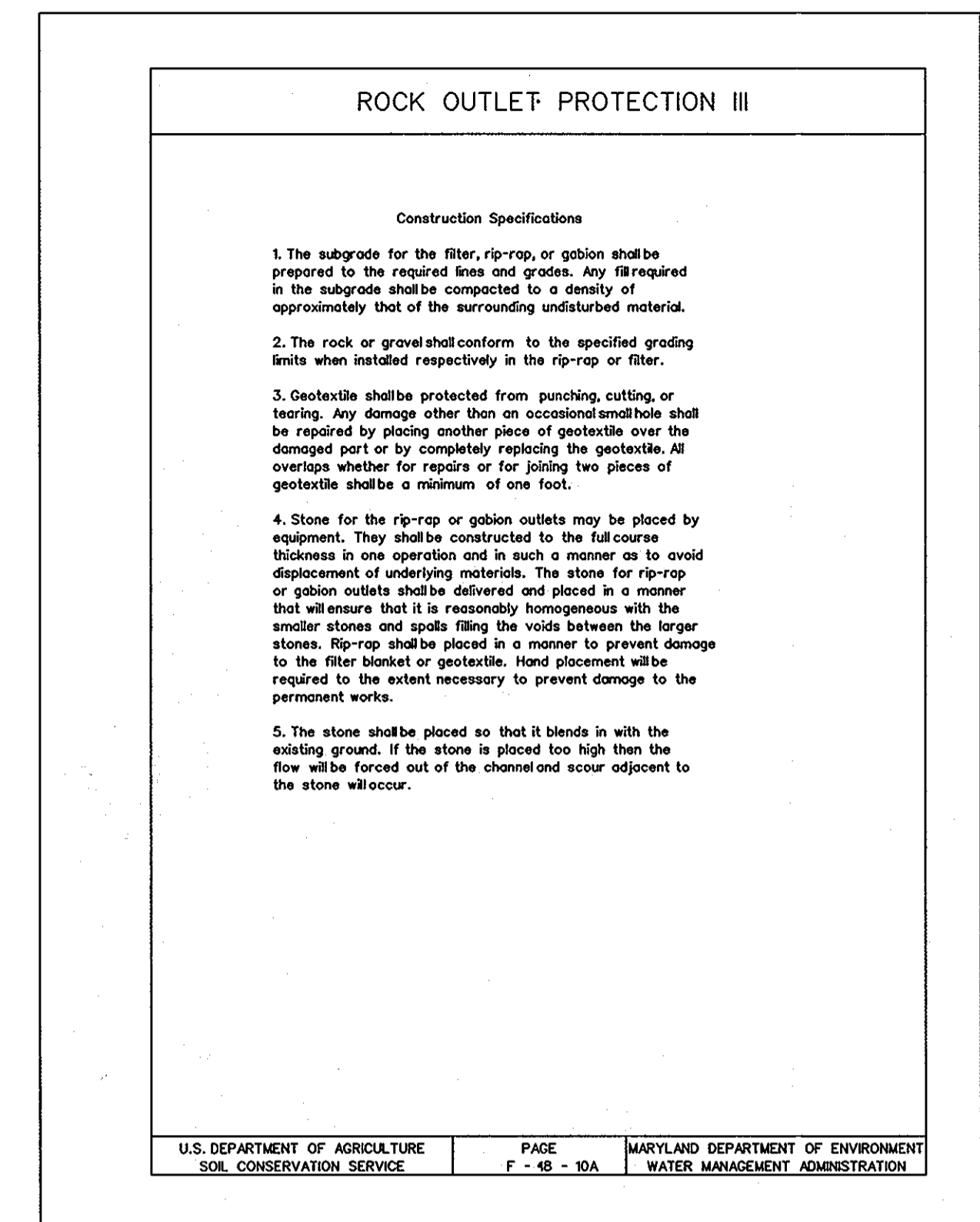
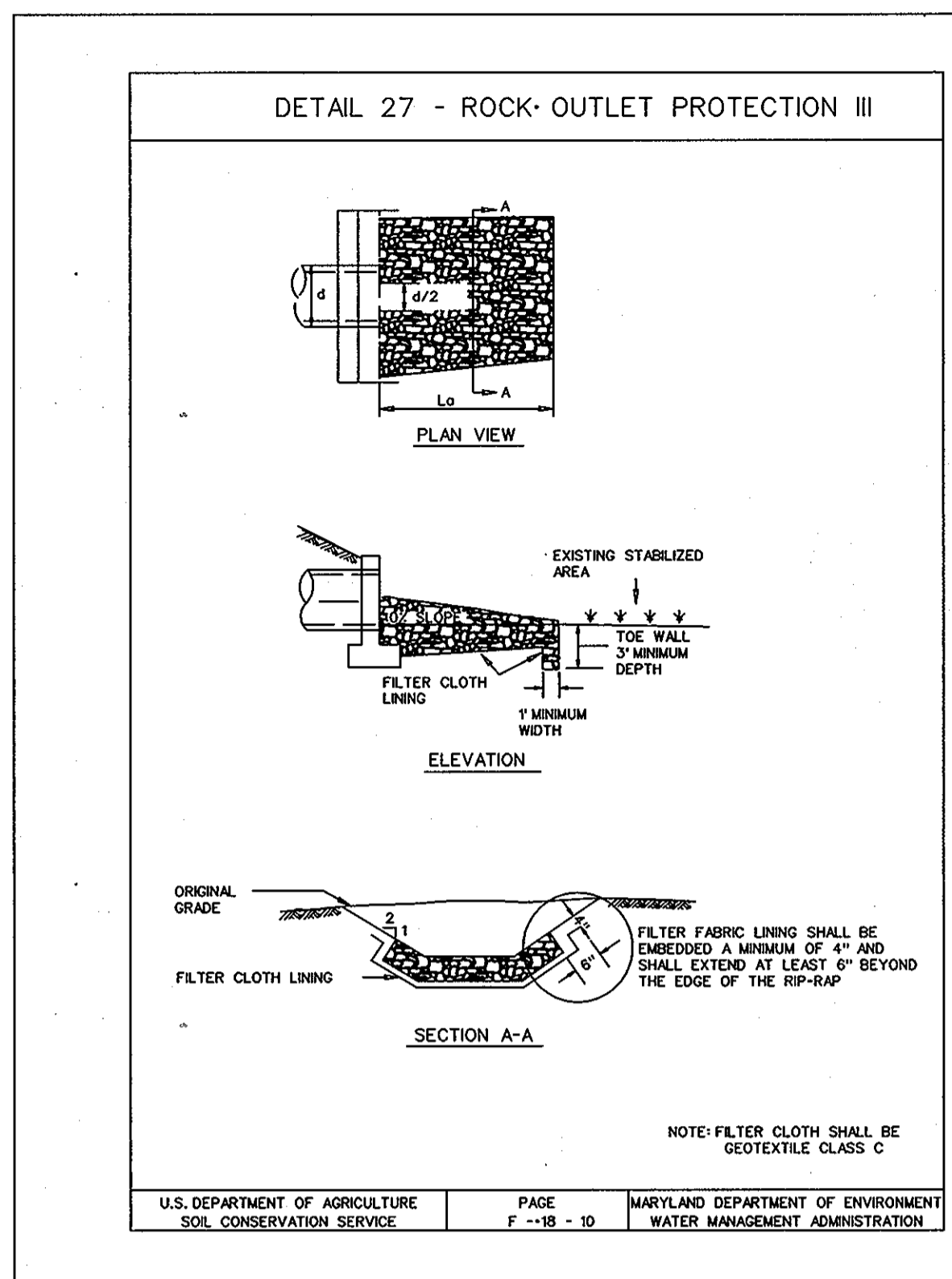
STORM DRAIN PROFILE

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



SANITARY SEWER LATERAL

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



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31089. EXPIRATION DATE: 11-21-10

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

|  |                |
|--|----------------|
| USDA - NATURAL RESOURCES CONSERVATION SERVICE<br>This development plan is approved for sediment and erosion control by the HOWARD COUNTY SOIL CONSERVATION DISTRICT. | DATE: 02/14/09 |
| HOWARD SCD   | DATE: 2/15/09  |
| APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  | DATE: 2/16/09  |
| CHIEF, DEVELOPMENT ENGINEERING DIVISION  | DATE: 2/16/09  |
| CHIEF, DIVISION OF LAND DEVELOPMENT  | DATE: 2/16/09  |
| DIRECTOR   | DATE: 2/16/09  |

BY THE DEVELOPER:  
I HEREBY 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

FR. DENNIS P. DIEHL 1/6/09  
PARISH CORP.  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:  
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 HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Maura K. Conn 1-9-09  
ENGINEER

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

B. Wilson for Peter Brilensen 2/23/09  
COUNTY HEALTH OFFICER

|          |     |      |           |
|----------|-----|------|-----------|
| Drafting | CS  | DATE | REVISIONS |
| Check    | THM |      |           |
| Design   | NAB |      |           |
| Check    | MKC |      |           |

**KCI TECHNOLOGIES**  
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS  
14302 GREENVIEW DRIVE  
LAUREL, MARYLAND 20708  
PHONE: (410) 792-8886  
FAX: (410) 792-7419  
WWW.KCI.COM

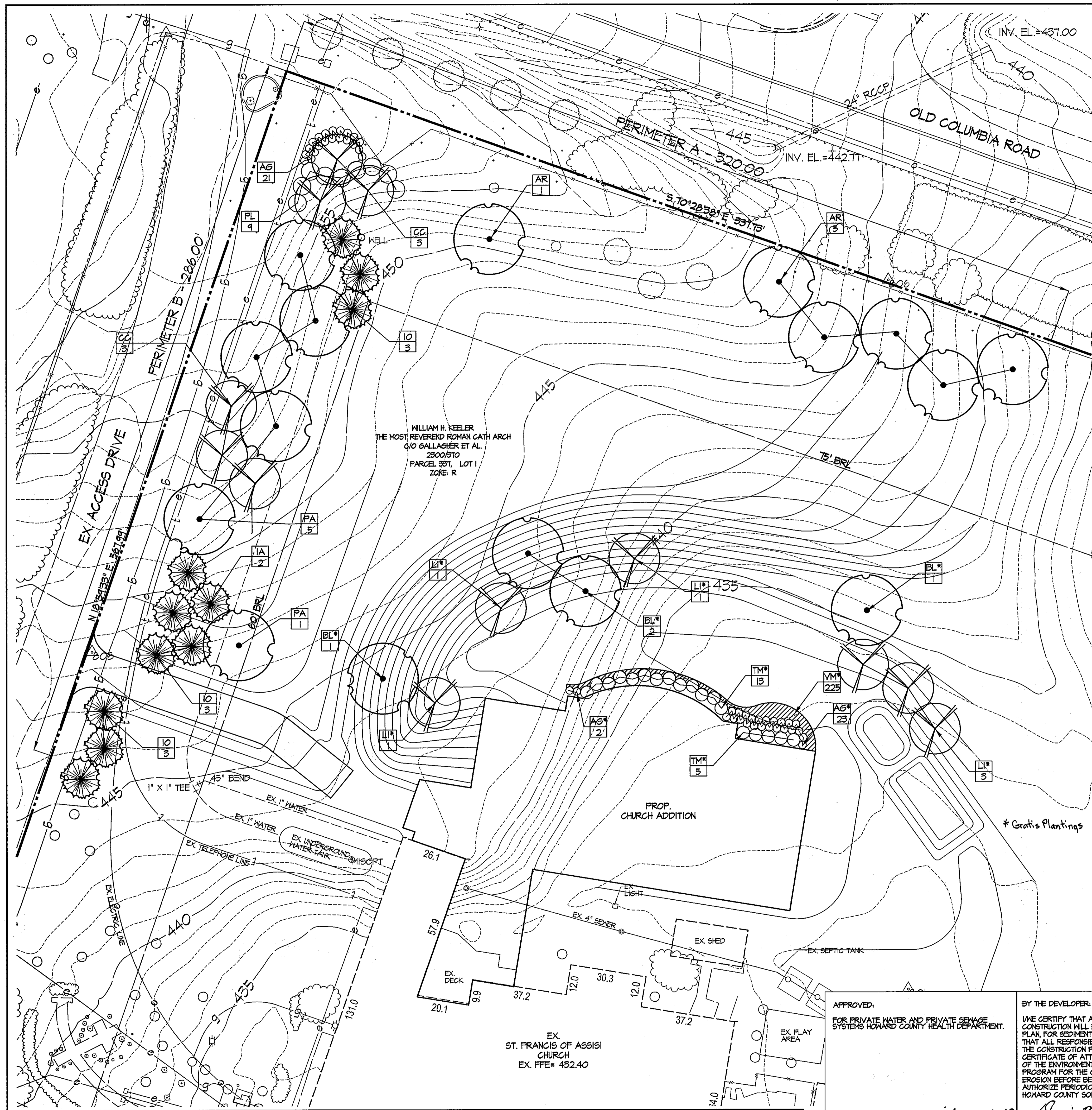
**OWNER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
610 GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4055  
PHONE: (410) 121-7102

**DEVELOPER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
610 GALLAGHER ET AL  
218 N CHARLES ST. STE 400  
BALTIMORE, MD 21201-4055  
PHONE: (410) 121-7102

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25258. EXPIRATION DATE: 11-17-10

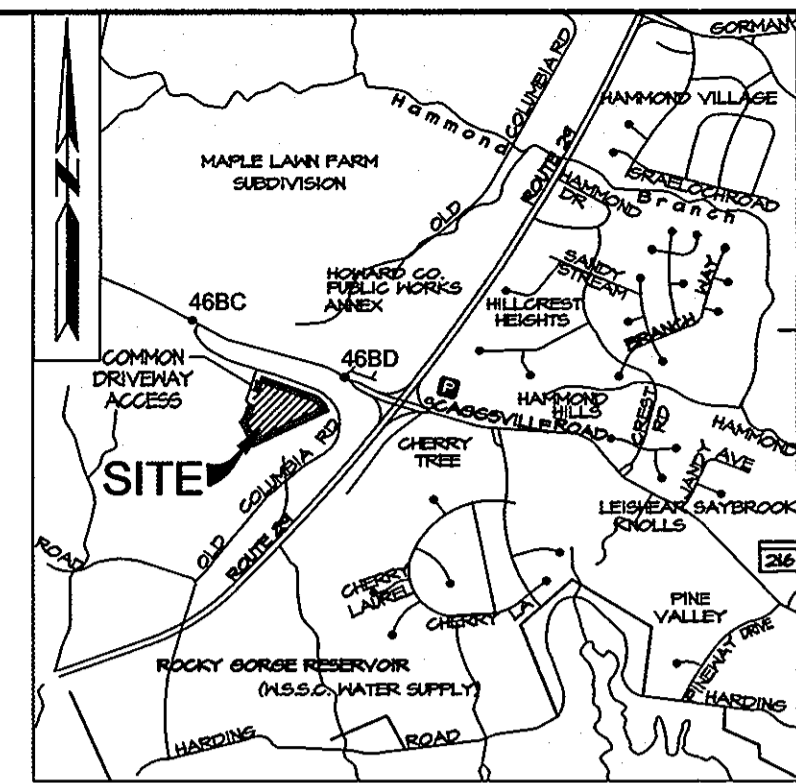
**SITE DETAILS & NOTES**  
ST. FRANCIS OF ASSISI SUBDIVISION LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1  
ZONED RR-DEO  
TAX MAP NO. 46 GRID 3  
ELECTION DISTRICT 05  
8500 OLD COLUMBIA ROAD  
FULTON, MD 20784

ISSUE DATE: 12-22-08  
SHEET 10 OF 14



**SITE NOTES**

- APPLICANT/PROPERTY OWNER: WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O GALLAGHER ET AL  
210 N. CHARLES ST. SITE 400  
BALTIMORE, MD 21201-4033
- SITE DATA: TAX MAP 46, GRID 3  
TAX ID NO.: H0551864  
TRACT AREA, 543,183 S.F. OR 12.41 Ac.  
PART OF LOT: 1  
PLAT NO. 10123  
ELECTION DISTRICT: 5  
ADC MAP: 14, GRID C-15  
200 SHEET NO.: 218NET  
EXISTING ZONE: RR-DEO  
SCHOOL PLANNING AREA: 112
- DEED REFERENCE: 02300/0310
- EXISTING USE: CHURCH  
PROPOSED USE: ONE STORY FAITH FORMATION CENTER- MEETINGS,  
BANQUETS, SUNDAY SCHOOL AND GROUP ACTIVITY CENTER
- HORIZONTAL CONTROL SHOWN HEREON IS BASED ON A TOPOGRAPHIC  
SURVEY BY KCI TECHNOLOGIES DATED OCTOBER, 2006.
- THIS SITE IS SERVED BY PRIVATE WATER AND SEWAGE.



**VICINITY MAP**  
SCALE: 1" = 200'

**GENERAL NOTES**

- This plan has been prepared in accordance with the provisions of section 16.124 of the Howard County code and the Landscape Manual.
- Perimeter landscaping shall be provided as shown on this landscape plan sheet. Surety in the amount of \$6,450.00 for 14 shade trees and 15 evergreens shall be provided with the Developers Agreement for this plan, SDP 04-03.
- For flag or pipestem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag pipestem and road right-of-way line not to the pipestem lot driveway.
- There are no 15% - 25% or 25% or greater slopes located on the site.
- Soils information obtained from soil survey of Howard County dated July 1968, soil survey sheet number 33.
- 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 substitutes or relocation of required plantings may be made without prior review and approval from the department of planning and zoning. Any deviation from this approved landscape 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.
- The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping materials, berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition and when necessary, repaired or replaced.

**LEGEND**

- 55MM EX. SANITARY SEWER MANHOLE
- 51VP EX. SEWER VENT PIPE
- EX. SANITARY SEWER LINE
- 50MM EX. STORMDRAIN MANHOLE
- EX. STORMDRAIN LINE
- EX. WATER LINE
- WV EX. WATER VALVE
- EX. PROPERTY LINE
- EX. CONTOUR
- +100.00 EX. SPOT ELEVATION
- PROP. CONTOUR
- PROP. BUILDING
- PROP. SHADE TREE
- PROP. ORNAMENTAL TREE
- PROP. EVERGREEN TREE
- PROP. SHRUBS
- PROP. GROUNDCOVER
- DENOTES GRATIS PLANTINGS (NO BONDING REQUIRED)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* JR. 2/25/09 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*[Signature]* BB 2/25/09 DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT

*[Signature]* 2/25/09 DATE  
DIRECTOR

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

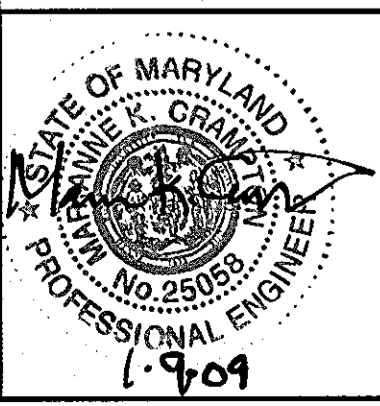
*[Signature]* 2/23/09  
COUNTY HEALTH OFFICER

BY THE DEVELOPER:  
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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 1/4/09  
FR. DENNIS P. DIEHL  
PARISH CORP.  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.

BY THE ENGINEER:  
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]* 1-9-09  
ENGINEER



**ENLARGED LANDSCAPE PLAN**  
ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION  
PHASE 1

ZONED RR-DEO  
TAX MAP No. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20784

SCALE: 1" = 20'

ISSUE DATE: 12-22-08  
SHEET 11 OF 14

| Drafting | CS  | DATE    | REVISIONS  |
|----------|-----|---------|--|
| Check    | THM | 11/9/08 | REVISED PER HOWARD COUNTY COMMENTS, DATED 8/7/08 |
| Design   | NAB |         |  |
| Check    | MKC |         |  |

**KCI TECHNOLOGIES**  
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

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PHONE: (410) 721-7102

**SPECIFICATIONS**

**PLANT MATERIALS AND PLANTING METHODS**

**A. Plant Materials**

The landscape contractor shall furnish and install and/or dig, ball, burlap, and transplant all of the plant materials called for on drawings and/or listed in the Plant Schedule.

1. Plant Names  
Plant names used in the Plant Schedule shall conform to "Standardized Plant Names", latest edition.

2. Plant Standards  
All plant material shall be equal to or better than the requirements of the "USA Standard for Nursery Stock", latest edition, as published by the American Association of Nurserymen (hereafter referred to as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth, and shall be first quality, sound, vigorous, well-branched and with health, well-furnished root systems. They shall be free of disease, insect pests and mechanical injuries.

- a. All plants shall be nursery grown and shall have been grown under the same climate as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.
- b. Collected plants or transplanted trees may be called for by the landscape architect and used, provided, however, that locations and soil conditions will permit proper balling.

3. Plant Measurements  
All plants shall conform to the measurements specified in the Plant Schedule as approved by the A.C.

- a. Caliper measurements shall be taken six inches (6") above grade for trees under four-inch (4") caliper and twelve inches (12") above grade for trees four inches (4") in caliper and over.
- b. Minimum branching height for all trees shall be six feet (6'), maximum eight feet (8').
- c. Minimum size for planting shade trees 2 1/2" - 3" caliper 12" - 14" in height.
- d. Minimum size for planting minor shade trees shall be 2-1/2"-3" caliper, 8-10" Height.
- e. Caliper, height, spread and size of ball shall be generally as follows:

| Caliper     | Height    | Spread    | Size of Ball |
|-------------|-----------|-----------|--------------|
| 2 1/2" - 3" | 12' - 14' | 6' - 8'   | 28" diameter |
| 3" - 3 1/2" | 14' - 16' | 8' - 10'  | 32" diameter |
| 3 1/2" - 4" | 14' - 16' | 8' - 10'  | 36" diameter |
| 4" - 4 1/2" | 16' - 18' | 8' - 10'  | 40" diameter |
| 4 1/2" - 5" | 16' - 18' | 10' - 12' | 34" diameter |
| 5" - 5 1/2" | 16' - 20' | 10' - 12' | 48" diameter |
| 5 1/2" - 6" | 18' - 20' | 12' - 14' | 52" diameter |

All plant material shall generally average the median for the size ranges indicated above as indicated in the "AAN Standards".

4. Plant Identification  
Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles or boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certificates of inspection as required by Federal, State and County authorities.

5. Plant Inspection  
The AC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material, inspect all proposed plant material at the source of origin.

B. Planting Methods  
Plant installation must conform with the minimum standards cited in the latest edition of "Landscape Specifications Guidelines" published by the Landscape Contractors Association. All proposed plant material that meet the specifications in the Planting Schedule are to be planted in accordance with the following planting methods during the proper planting seasons as described in the following:

- 1. Planting Seasons  
The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be continued during the winter months providing there is no frost in the ground and frost-free topsoil planting mixtures are used.  
The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively moist. No frozen or wet topsoil shall be used at any time.

2. Digging  
All plant material shall be dug, balled and burlapped (B+B) in accordance with the "AAN Standards."

3. Excavation of Plant Pits  
The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following schedule:

- a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.
- b. All pits shall be generally circular in outline, vertical sides; depth shall not be less than 6" deeper than the root ball, diameter shall not be less than two times the diameter of the root ball as set forth in the following schedule.
- c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18" depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12" in depth minimum.
- d. Diameter and depth of tree pits shall generally be as follows:

Pit Fit  
Plant Size Root Ball Diameter Depth

|                  |     |      |     |
|------------------|-----|------|-----|
| 2 1/2" - 3" cal. | 28" | 56"  | 24" |
| 3" - 3 1/2" cal. | 32" | 64"  | 28" |
| 3 1/2" - 4" cal. | 36" | 72"  | 32" |
| 4" - 4 1/2" cal. | 40" | 80"  | 36" |
| 4 1/2" - 5" cal. | 44" | 88"  | 40" |
| 5" - 5 1/2" cal. | 48" | 96"  | 44" |
| 5 1/2" - 6" cal. | 52" | 104" | 48" |

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposes of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

4. Staking, Guying and Wrapping  
All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:

- a. Stakes: Shall be sound wood 2" x 2" rough sawn oak or similar durable woods, or lengths, minimum 7' - 0" for major trees and 5' - 0" minimum for minor trees.

- b. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 3/16" turn buckles, eye and eye with 4" takeup. For trees over 5" caliper, provide 3/16", 7 strand cable cadmium plated steel, with galvanized "eye" thimbles of wire and hose on trees up to 3" in caliper.

- c. Hose: Shall be new, 2 ply reinforced rubber hose, minimum 7" I.D. "Plastic Lock Ties" or "Paul's tree Braces" may be used in place of wire and hose on trees up to 3" in caliper.
- d. All trees under 3" in caliper are to be planted and staked in accordance with the attached "Typical Tree Staking Detail". All trees over 3" in caliper are to be planted and guyed in accordance with the attached "Typical Tree Guying Detail".

**5. Plant Pruning, Edging and Mulching**

- a. Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1" in diameter shall be painted with an approved antiseptic tree wound dressing.
- b. All Trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine pockets.

- c. After cultivation, all plant materials shall be mulched with a 4" layer of tan bark, peat moss, or another approved material over the entire area of the bed or saucer.

**6. Plant Inspection and Acceptance**

The AC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is proceeding in accordance with the approved plans and specifications.

**7. Plant Guarantee**

All Plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

- a. For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the "Fall" planting season.
- b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following "Spring" planting season.

**C. SEEDING AND SODDING**

1. All seeding and sodding shall be as per "Standards and Specifications for Soil Erosion and Sediment Control in Urbanized Areas" as published by the Department of Natural Resources.

**MAINTENANCE**

The developer is responsible for maintenance of the landscaping during construction and is responsible for obtaining a 1 year guarantee that ensures the survival or replacement of all required plant materials for 1 year from the date on the landscape certification.

At the end of the maintenance period, it is the developer's responsibility to transfer formally the long term responsibility for the required landscaping to the owner, tenant, homeowners association, or other agent responsible for long term maintenance of the development. Maintenance responsibilities include, but are not limited to, pruning, fertilizing, watering, mowing, weeding, and other such activities necessary to the health and survival of the landscaping. The required planting should be maintained in good growing condition and, whenever necessary, replaced with new plant materials to ensure continued compliance with landscape regulations.

No plant material shall encroach on road rights-of-way so that sight distance is impeded. Required berm fences and walls shall be permanently maintained in good condition and, whenever necessary repaired or replaced.

**PERIMETER A, LANDSCAPE CHART**

| CATEGORY  | ADJACENT TO ROADWAYS                     | ADJACENT TO PERIMETER PROPERTIES |
|---|--|----------------------------------|
| LANDSCAPE TYPE  | A (REAR OF PROPERTY ADJACENT TO ROADWAY) | NA                               |
| LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER  | 320 LF                                   | NA                               |
| CREDIT FOR EXIST. VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)  | 0  | NA                               |
| CREDIT FOR HALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)  | 0  | NA                               |
| NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS  | 6<br>0<br>0                              | NA                               |
| NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTIONS CREDITS BELOW IF NEEDED) | 6<br>0<br>0<br>0<br>0                    | NA                               |

**PERIMETER B, LANDSCAPE CHART**

| CATEGORY  | ADJACENT TO ROADWAYS | ADJACENT TO PERIMETER PROPERTIES   |
|---|----------------------|--|
| LANDSCAPE TYPE  | NA                   | A  |
| LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER  | NA                   | 286 LF   |
| CREDIT FOR EXIST. VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)  | NA                   | 0  |
| CREDIT FOR HALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)  | NA                   | 0  |
| NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS  | NA                   | 8<br>15<br>0   |
| NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTIONS CREDITS BELOW IF NEEDED) | NA                   | 6<br>11<br>0<br>6<br>30<br>6 ORNAMENTAL TREES AND 30 SHRUBS HERE SUBSTITUTED FOR 2 SHADE TREES AND 4 EVERGREEN |
| COMMENTS:   |                      |  |

**PLANT SCHEDULE**

| QTY  | SYM | SCIENTIFIC / COMMON NAME   | SIZE        | ROOT    | COMMENT                              |
|--|-----|--|-------------|---------|--------------------------------------|
| <b>DECIDUOUS TREES</b>                         |     |  |             |         |                                      |
| 6  | AR  | ACER RUBRUM 'OCTOBER GLORY' / OCTOBER GLORY RED MAPLE              | 2.5"-3" DIA | B4B     |                                      |
| 6  | PA  | PLATANUS X ACERIFOLIA 'BLOODGOOD' / BLOODGOOD LONDON PLANE TREE    | 2.5"-3" DIA | B4B     | MATCHED SPECIMENS                    |
| <b>ORNAMENTAL TREES</b>                        |     |  |             |         |                                      |
| 6  | CC  | CERCIS CANADENSIS / EASTERN REDBUD                                 | 2" DIA      | B4B     |                                      |
| <b>EVERGREEN TREES</b>                         |     |  |             |         |                                      |
| 4  | IO  | ILEX OPACA / AMERICAN HOLLY  | 6"-7" HT    | B4B     | FULL TO GROUND                       |
| 2  | IA  | ILEX ATTENUATA 'FOSTERS' / FOSTERS HOLLY                           | 6"-8" HT    | B4B     | FULL TO GROUND, 1 MALE PER 3 FEMALES |
| <b>SHRUBS</b>                                  |     |  |             |         |                                      |
| 21   | AG  | ABELIA GRANDIFLORA 'LITTLE RICHARD' / LITTLE RICHARD GLOSSY ABELIA | 12"-15" HT  | #3 CONT |                                      |
| 4  | PL  | PRUNUS LAURICERASIS 'SCHIPKAENSIS' / SCHIPKAENSIS CHERRY LAUREL    | 30"-36" HT  | B4B     |                                      |
| <b>* GRATIS PLANTING (NO BONDING REQUIRED)</b> |     |  |             |         |                                      |
| QTY SYM SCIENTIFIC / COMMON NAME               |     |  |             |         |                                      |
| <b>DECIDUOUS TREES</b>                         |     |  |             |         |                                      |
| 4  | BL  | BETULA LENTA / SWEET BIRCH   | 2.5"-3" DIA | B4B     |                                      |
| <b>ORNAMENTAL TREES</b>                        |     |  |             |         |                                      |
| 6  | LI  | LAGERSTROEMIA INDICA X NATCHEZ / NATCHEZ CRAPMYRTLE                | 6"-7" HT    | B4B     | MULTI-STEM, 3 STEM MINIMUM           |
| <b>SHRUBS</b>                                  |     |  |             |         |                                      |
| 25   | AG  | ABELIA GRANDIFLORA 'LITTLE RICHARD' / LITTLE RICHARD GLOSSY ABELIA | 30"-36" HT  | B4B     |                                      |
| 18   | TM  | TAXUS X MEDIA 'DENSIFORMIS' / DENSIFORMIS YEW                      | 15"-18" HT  | #3 CONT |                                      |
| <b>GROUND COVERS / ANNUALS / PERENNIALS</b>    |     |  |             |         |                                      |
| 225  | VM  | VINCA MINOR / PERIWINKLE   | 1 GAL       | CONT.   | PLANT 12" O.C.                       |

**DEVELOPER/BUILDER CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME: Dominic P. Wudal DATE: 1/6/09

BY THE DEVELOPER:  
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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DATE: 1/6/09

BY THE ENGINEER:  
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 COUNTY SOIL CONSERVATION DISTRICT.

DATE: 1-9-09

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

DATE: 2/2/09

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DATE: 1/6/09

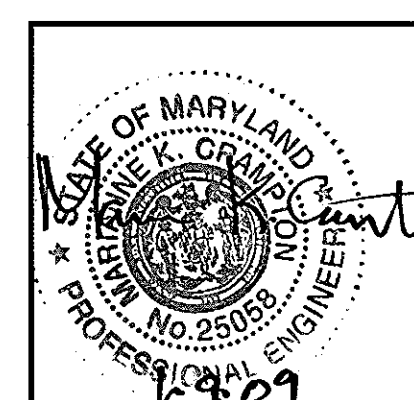
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|----------|-----|---------|--|
| Check    | THM | 1/19/08 | REVISED PER HOWARD COUNTY COMMENTS, DATED 8/7/08 |
| Design   | NMB |         |  |
| Check    | MKC |         |  |

**KCI TECHNOLOGIES**  
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

14502 GREENVIEW DRIVE  
LAUREL, MARYLAND 20708  
PHONE: (410) 792-8866  
FAX: (410) 792-7419  
WWW.KCI.COM

**OWNER**  
WILLIAM H. KEELER  
THE MOST REVEREND ROMAN CATH ARCH  
C/O CALLAHAN ET AL  
28 N CHARLES ST, STE 400  
BALTIMORE, MD 21201-4055  
PHONE: (410) 127-7102

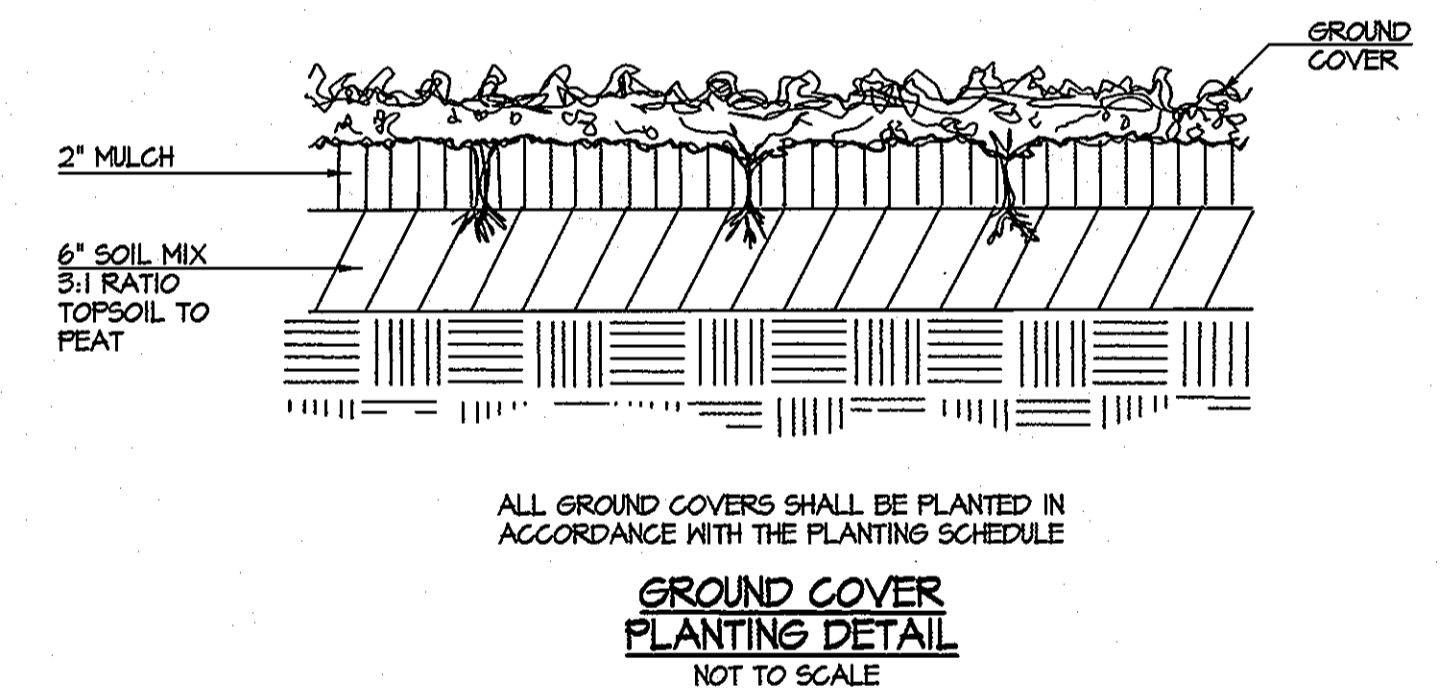
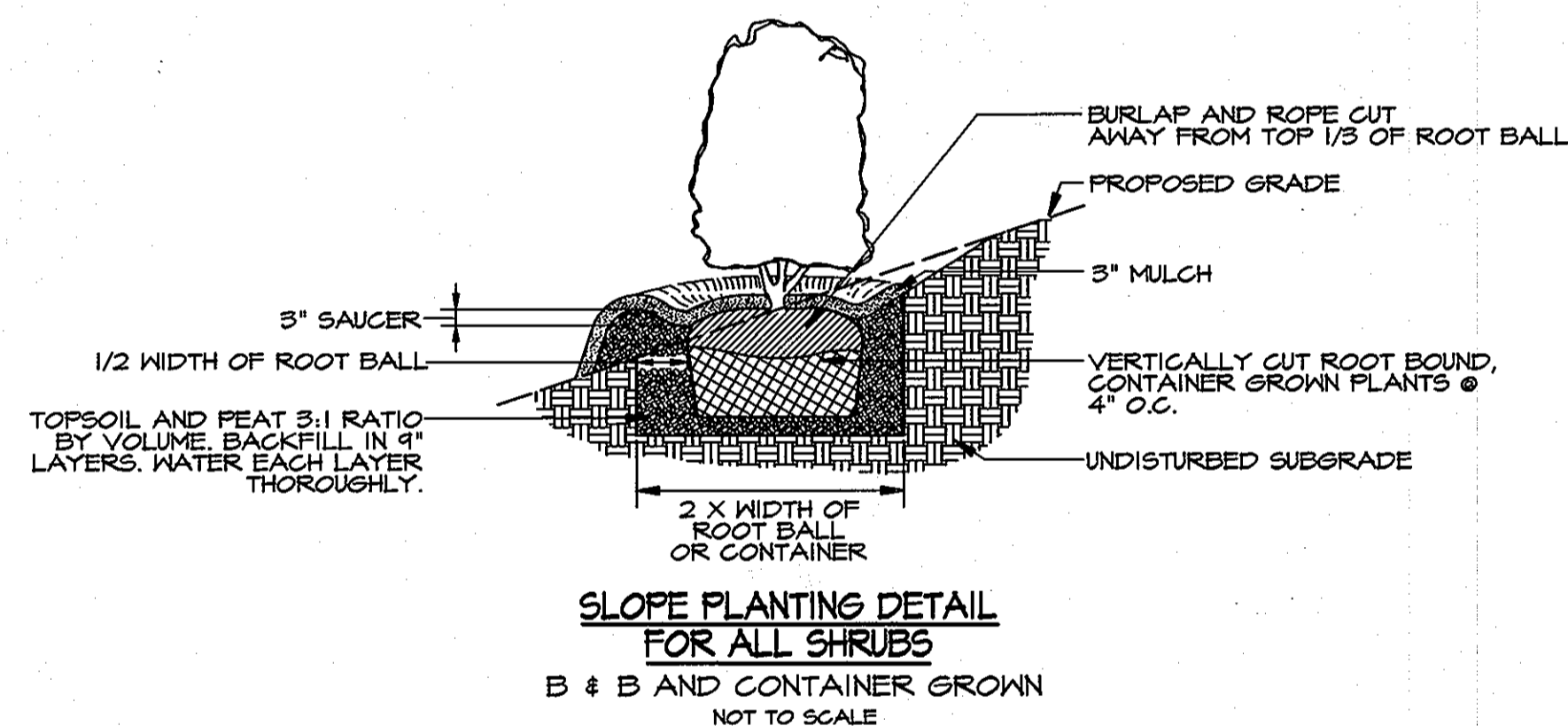
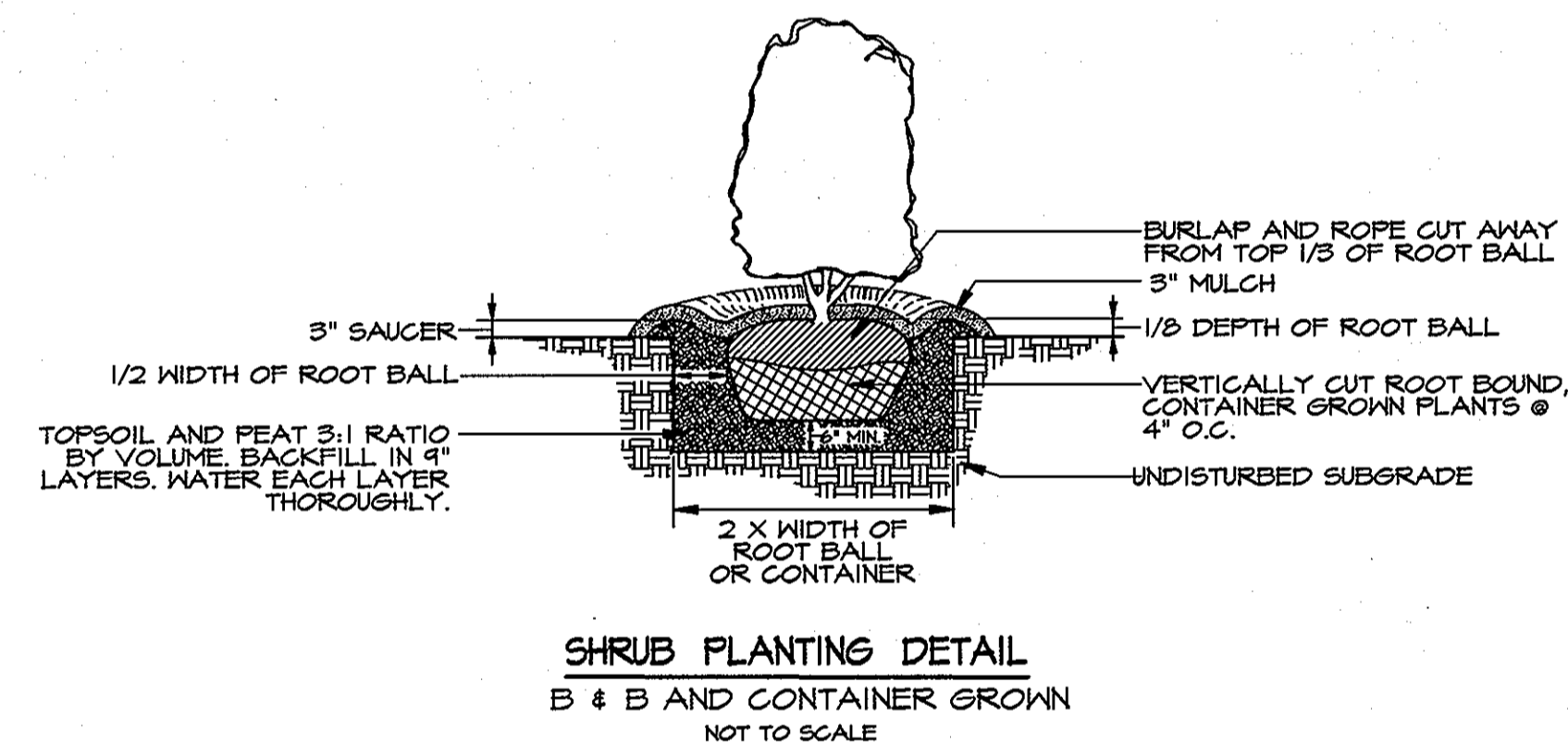
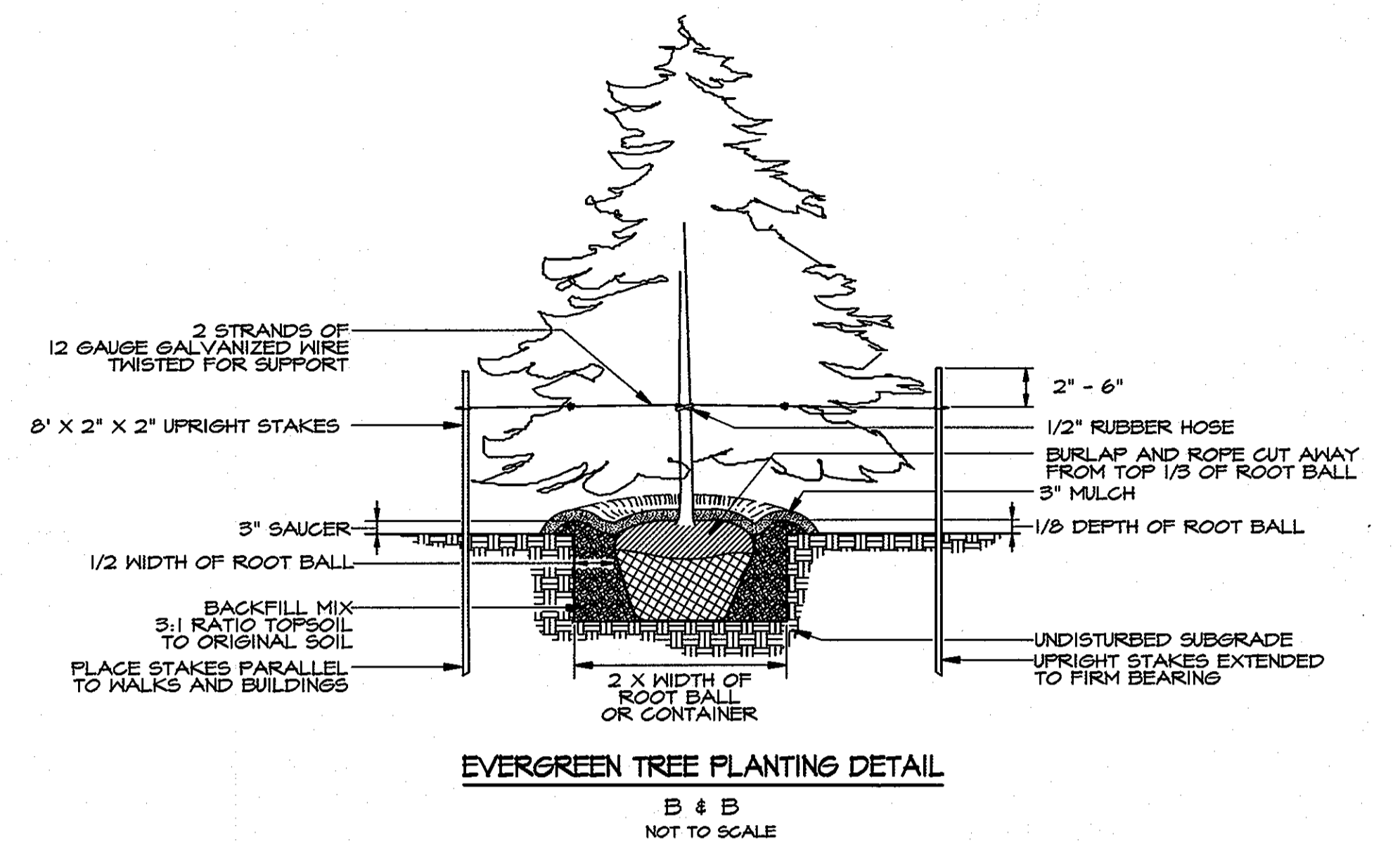
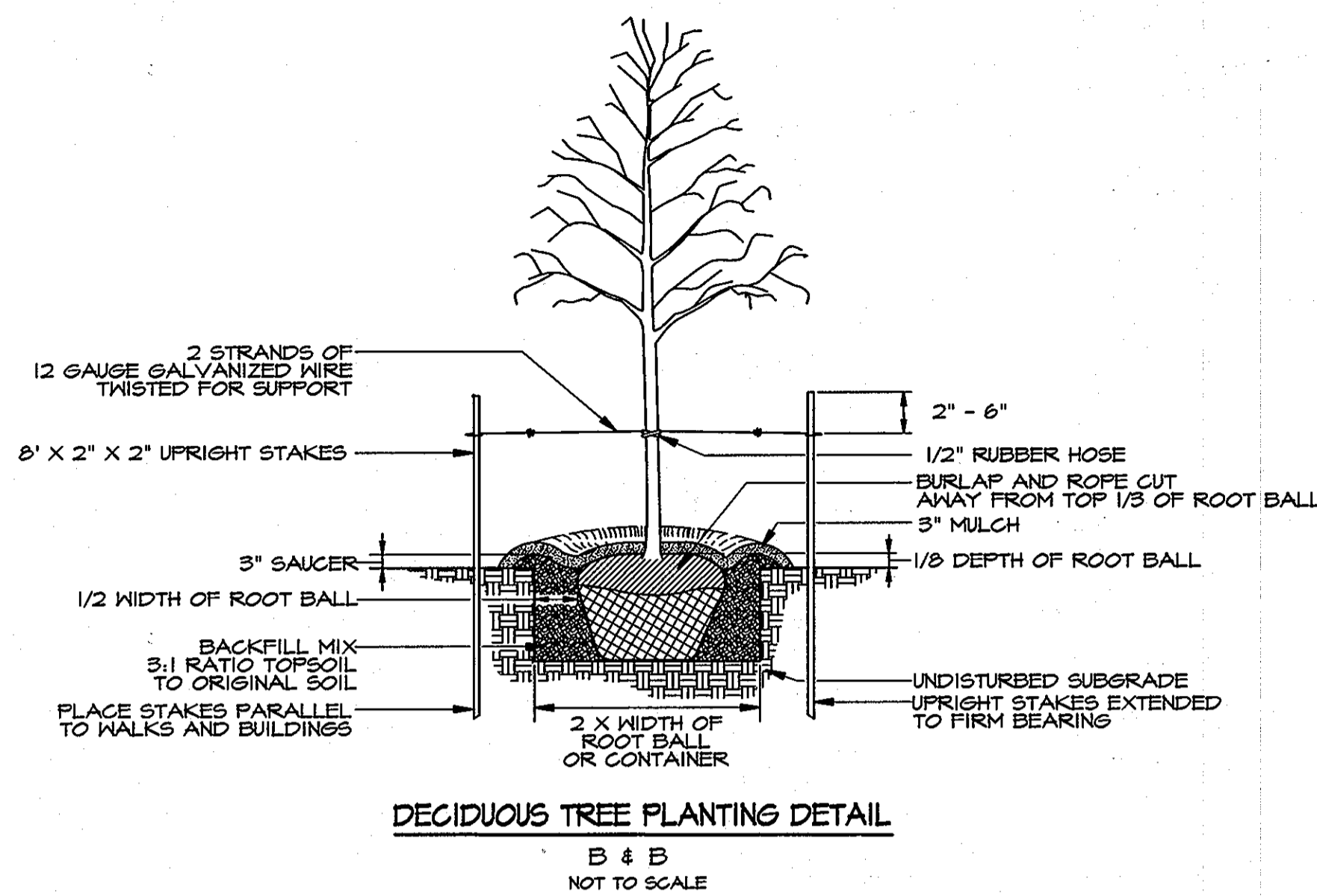
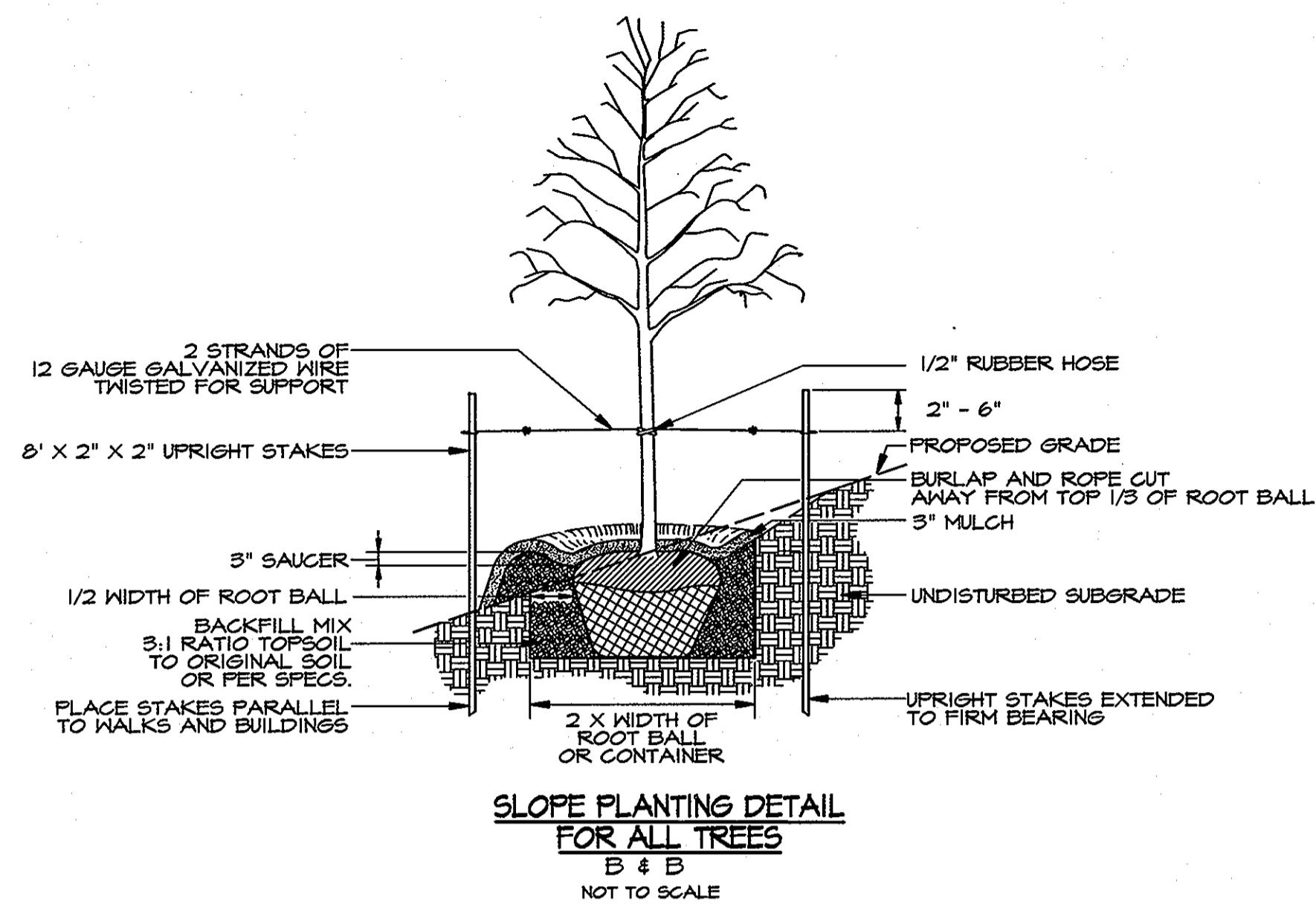
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BALTIMORE, MD 21201-4055  
PHONE: (410) 127-7102



**LANDSCAPE NOTES & DETAILS**  
ST. FRANCIS OF ASSISI SUBDIVISION LOT 1  
ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1

ZONED RR-DEO  
TAX MAP No. 46 GRID 3  
ELECTION DISTRICT 05  
8300 OLD COLUMBIA ROAD  
FULTON, MD 20784

NOT TO SCALE  
ISSUE DATE: 12-22-08  
SHEET 12 OF 14



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Michael J. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION 3/8/05  
*Cindy ...*  
CHIEF, DIVISION OF LAND DEVELOPMENT 3/8/05  
*Mark ...*  
DIRECTOR 2/26/05

DATE  
DATE  
DATE

BY THE DEVELOPER:  
I ME 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Sean P. ...*  
FR. DENNIS P. DIEHL  
PARISH CORP.  
ST. FRANCIS OF ASSISI,  
HOWARD COUNTY  
ROMAN CATHOLIC CONGREGATION, INC.  
DATE 1/6/05

BY THE ENGINEER:  
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 HAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Marvin K. ...*  
ENGINEER  
DATE 1-9-09

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

*B. Wilson for Peter ...*  
COUNTY HEALTH OFFICER  
DATE 2/28/09

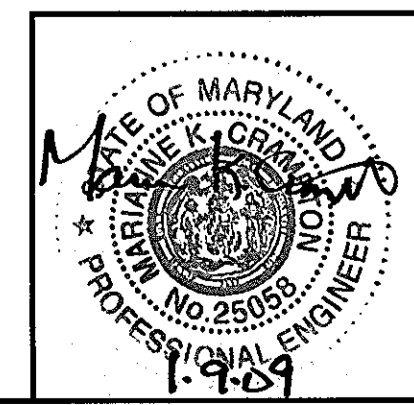
| Drafting | CS  | DATE | REVISIONS |
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| Check    | THM |      |           |
| Design   | NMB |      |           |
| Check    | MKC |      |           |

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288 N CHARLES ST, STE 400  
BALTIMORE, MD 21201-4028  
PHONE: (410) 127-1702

**DEVELOPER**  
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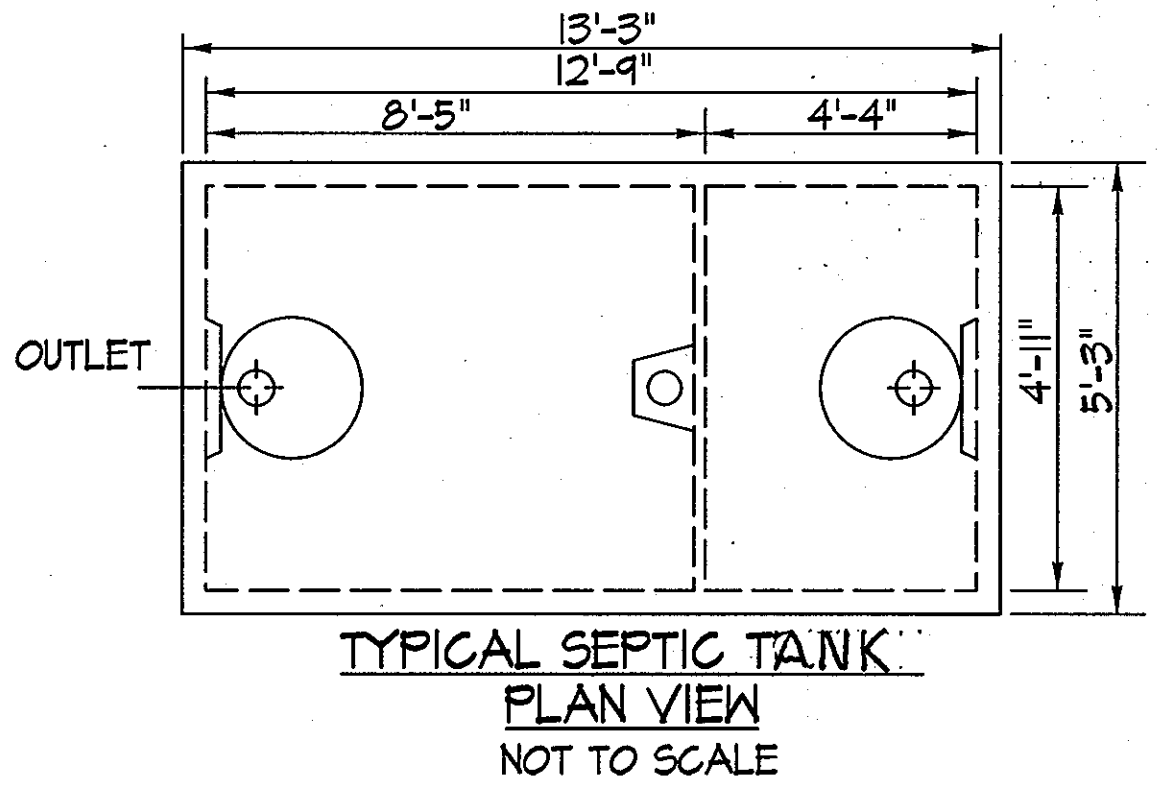
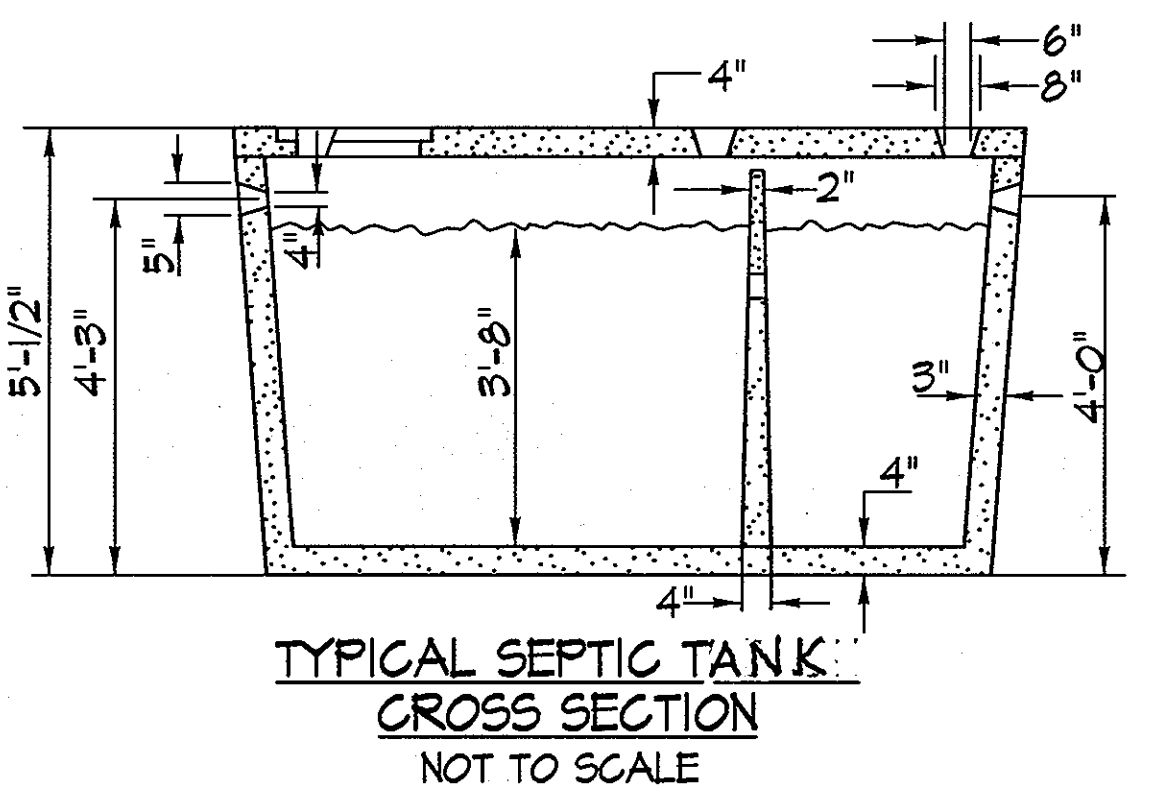
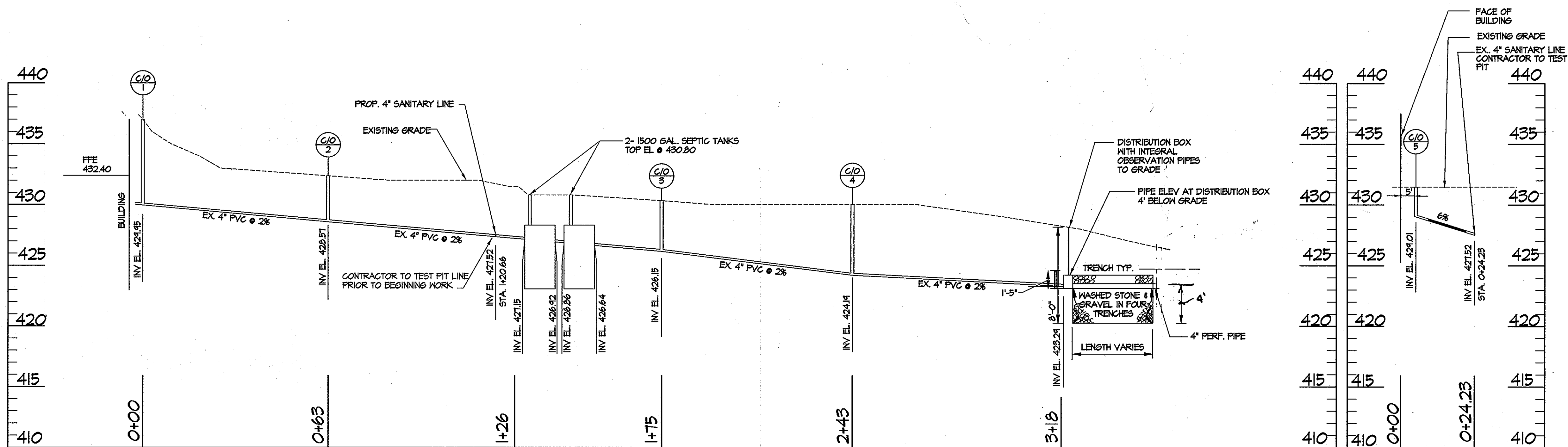


**LANDSCAPE NOTES & DETAILS**

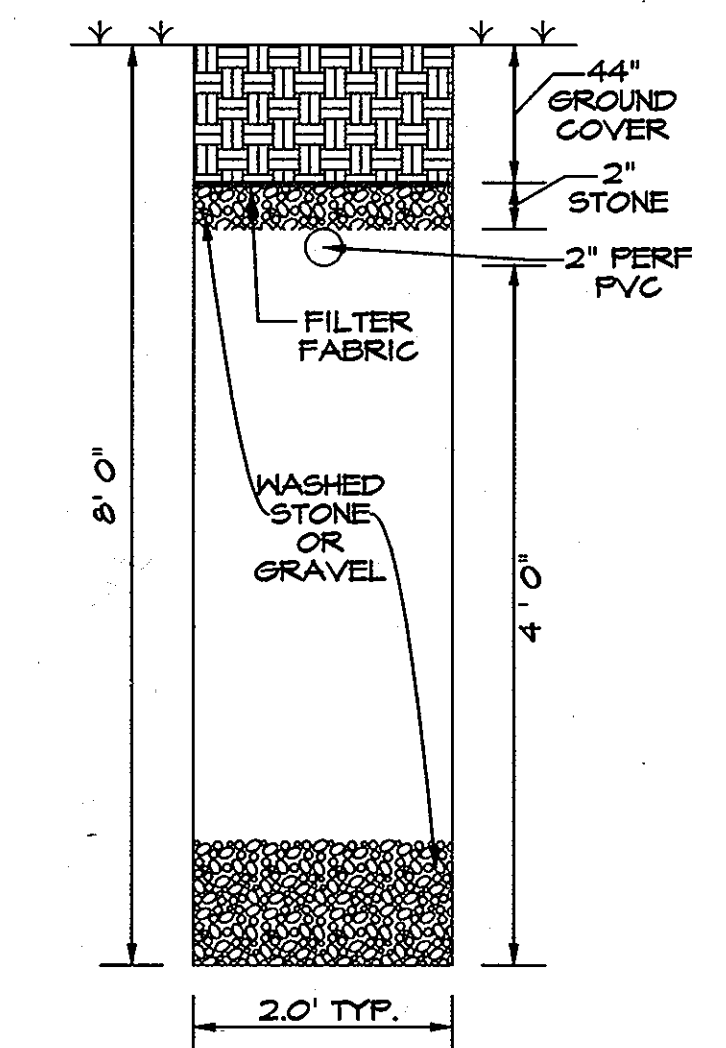
ST. FRANCIS OF ASSISI SUBDIVISION  
LOT 1  
ST. FRANCIS OF ASSISI FAITH  
FORMATION CENTER ADDITION  
PHASE 1

ZONED RR-DEO  
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ELECTION DISTRICT 05  
8500 OLD COLUMBIA ROAD  
FULTON, MD 20784

NOT TO SCALE  
ISSUE DATE: 12-22-08  
SHEET 15 OF 14



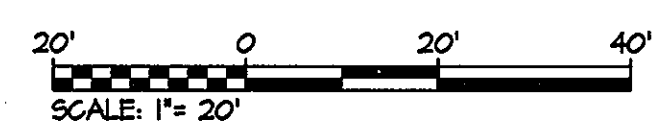
- LEGEND**
- EX. SANITARY SEWER MANHOLE
  - EX. SEWER VENT PIPE
  - EX. SANITARY SEWER LINE
  - EX. STORMDRAIN MANHOLE
  - - - EX. STORMDRAIN LINE
  - - - EX. WATER LINE
  - ⊕ EX. WATER VALVE
  - - - EX. PROPERTY LINE
  - - - EX. CONTOUR
  - EX. SPOT ELEVATION
  - CLEANOUT
  - PROP. SANITARY LINE
  - EX. SEPTIC FIELD



**SEPTIC SYSTEM TRENCH DESIGN DATA**

INLET DEPTH 4'-0"  
 BOTTOM DEPTH 8'-0"  
 STONE DEPTH 4'-0"  
 TRENCH LENGTH 560'  
 DESIGN LOADING RATE 800 G.P.D.  
 SEPTIC TANK 2 - 1500 GAL. TANKS IN SERIES  
 GROUNDWATER APPROPRIATIONS PERMIT # H085004(01)

**SITE PLAN**  
 SCALE: 1" = 20'

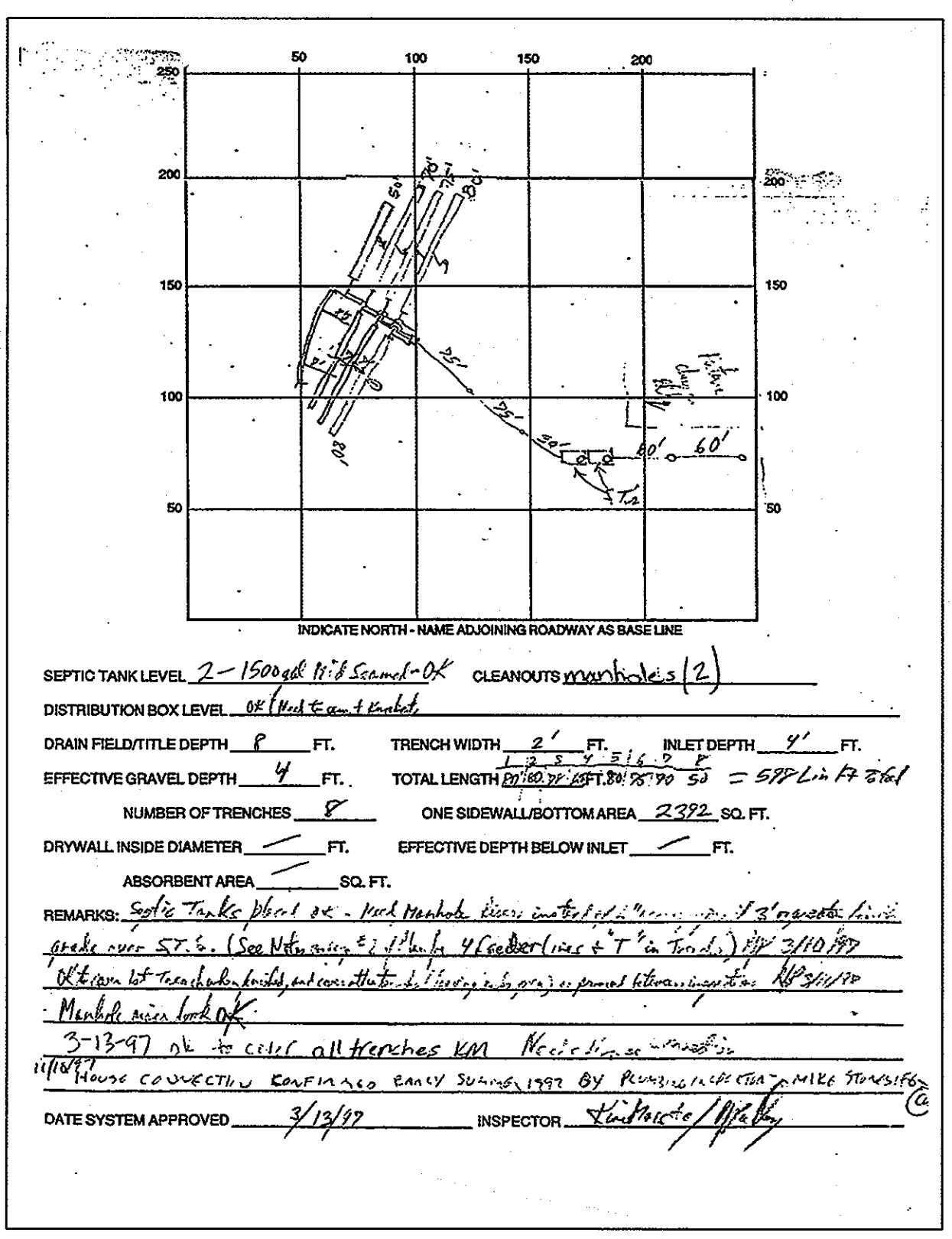


**TEST LOG**

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE     | TEST NO. | DEPTH   | PRE-WET | START | STOP  | TEST - 1" DROP | TIME |
|----------|----------|---------|---------|-------|-------|----------------|------|
| 11/28/12 | 10       | 2.0' S  | 11:15   | 11:18 | 11:18 | 11:25          | 3    |
|          |          | 8.0' M  | 11:15   | 11:17 | 11:17 | 11:19          | 2    |
|          |          | 13.0' D | 11:15   | 11:15 | 11:15 | 11:15          | 1    |
|          |          | 18.0' S | 11:20   | 11:26 | 11:26 | 11:28          | 2    |
|          |          | 23.0' M | 11:24   | 11:28 | 11:28 | 11:30          | 3    |
|          |          | 28.0' S | 11:30   | 11:36 | 11:36 | 11:39          | 3    |
|          |          | 33.0' M | 11:34   | 11:38 | 11:39 | 11:47          | 8    |
|          |          | 38.0' D |         |       |       |                |      |

REMARKS: TYPE OF SOIL: ... TESTED BY: D. SDC ... ALSO PRESENT: S.T. Nadeau ... TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: ... TRENCH WIDTH: ... INLET DEPTH: ... MAXIMUM BOTTOM DEPTH: ... SOIL FIBERROOM: ...



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION DISTRICT  
 This development plan is approved for periodic and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

DATE: 02/04/09  
 DATE: 2/20/09  
 DATE: 2/26/09

BY THE DEVELOPER:

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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

FR. JENNIS P. DIEHL  
 PARISH CORP.  
 ST. FRANCIS OF ASSISI,  
 HOWARD COUNTY  
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BY THE ENGINEER:

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MAURICE K. CAMPBELL  
 ENGINEER  
 DATE: 1-9-09

APPROVED:

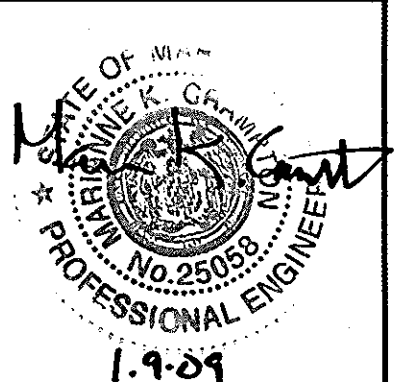
FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

B. WILSON FOR PETER BEILSEN  
 COUNTY HEALTH OFFICER  
 DATE: 2/20/09

**OWNER**  
 WILLIAM H. KEELER  
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 PHONE: (410) 752-7102

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25028. EXPIRATION DATE: 11/17/10



**SEPTIC PLAN AND PROFILE**  
 ST. FRANCIS OF ASSISI SUBDIVISION LOT 1  
 ST. FRANCIS OF ASSISI FAITH FORMATION CENTER ADDITION PHASE 1  
 ZONED RR-DEO  
 TAX MAP NO. 46 GRID 3  
 ELECTION DISTRICT 05  
 8300 OLD COLUMBIA ROAD  
 FULTON, MD 20754