



CERTIFICATE OF AUTHENTICITY

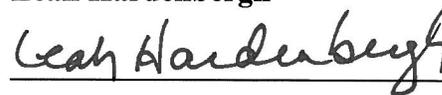
THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

BMP NUMBER: MC052

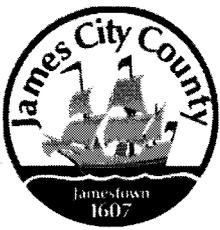
DATE VERIFIED: May 11, 2012

QUALITY ASSURANCE TECHNICIAN:

Leah Hardenbergh



LOCATION: WILLIAMSBURG, VIRGINIA



Stormwater Division

MEMORANDUM

DATE: March 12, 2010
TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services
FROM: Jo Anna Ripley, Stormwater
PO: 270712
RE: Files Approved for Scanning

General File ID or BMP ID: MC052

PIN: 3830100018

Subdivision, Tract, Business or Owner

Name (if known):

Saint Bedes Catholic Church

Property Description:

Church Site

Site Address:

3686 Ironbound Road

(For internal use only)

Box 18

Drawer: N/A

Agreements: (in file as of scan date)

Y

Book or Doc#:

050000447

Page:

010001887

261

641

Comments

 **COPY**

COUNTY OF JAMES CITY, VIRGINIA

DECLARATION OF COVENANTS

INSPECTION/MAINTENANCE OF DRAINAGE SYSTEM

THIS DECLARATION, made this 30th day of December, 2004, between Saint Bede Catholic Church/Catholic Diocese of Richmond, and all successors in interest, ("COVENANTOR(S),") owner(s) of the following property:

Street Address: 3686 Ironbound Road
Legal Description: ⁿ PT Indigo Dam S-1
Project Name: Saint Bede Catholic Church
Document No. 010001887, Deed Book 261, Page No. 641;
Instrument No. 010001887, and the County of James City, Virginia ("COUNTY.")
(see attached deed)

WITNESSETH:

We, the COVENANTOR(S), with full authority to execute deeds, mortgages, other covenants, and all rights, titles and interests in the property described above, do hereby covenant with the COUNTY as follows:

1. The COVENANTOR(S) shall provide maintenance for the drainage system including any runoff control facilities, conveyance systems and associated easements, hereinafter referred to as the "SYSTEM," located on and serving the above-described property to ensure that the SYSTEM is and remains in proper working condition in accordance with approved design standards, and with the law and applicable executive regulations. The SYSTEM shall not include any elements located within any Virginia Department of Transportation rights-of-way.
2. If necessary, the COVENANTOR(S) shall levy regular or special assessments against all present or subsequent owners of property served by the SYSTEM to ensure that the SYSTEM is properly maintained.
3. The COVENANTOR(S) shall provide and maintain perpetual access from public right-of-ways to the SYSTEM for the COUNTY, its agent and its contractor.
4. The COVENANTOR(S) shall grant the COUNTY, its agent and its contractor a right of entry to the SYSTEM for the purpose of inspecting, monitoring, operating, installing, constructing, reconstructing, maintaining or repairing the SYSTEM.
5. If, after reasonable notice by the COUNTY, the COVENANTOR(S) shall fail to maintain the SYSTEM in accordance with the approved design standards and with the law and applicable executive regulations, the COUNTY may perform all necessary repair or maintenance work, and the COUNTY may assess the COVENANTOR(S) and/or all property served by the SYSTEM for the cost of the work and any applicable penalties.

Instrument # 050000447

Page 1

Revised 06/04

Recorded on Jan. 10, 2005

6. The COVENANTOR(S) shall indemnify and save the COUNTY harmless from any and all claims for damages to persons or property arising from the installation, construction, maintenance, repair, operation or use of the SYSTEM.

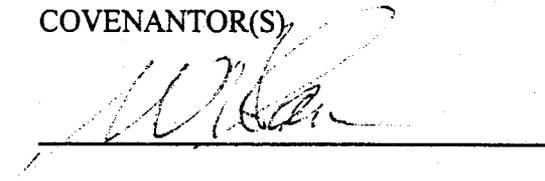
7. The COVENANTOR(s) shall promptly notify the COUNTY when the COVENANTOR(S) legally transfers any of the COVENANTOR(S)' responsibilities for the SYSTEM. The COVENANTOR(S)' shall supply the COUNTY with a copy of any document of transfer, executed by both parties.

8. The covenants contained herein shall run with the land and shall bind the COVENANTOR(S) and the COVENANTOR(S)' heirs, executors, administrators, successors and assignees, and shall bind all present and subsequent owners of property served by the SYSTEM.

9. This COVENANT shall be recorded in the County Land Records.

IN WITNESS WHEREOF, the COVENANTOR(S) have executed this DECLARATION OF COVENANTS as of the date first above written.

COVENANTOR(S)

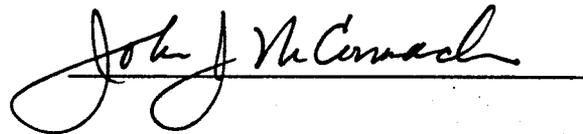


Print Name/Title Msgr. William H. Carr
Pastor, Saint Bede Catholic Church

ATTEST:



COVENANTOR(S)



Print Name/Title John J. McCormack, Dir. of Operations
Saint Bede Catholic Church

ATTEST:



COMMONWEALTH OF VIRGINIA

CITY/COUNTY OF Williamsburg

I hereby certify that on this 30th day of December, 20 04, before the subscribed, a Notary Public of the State of Virginia, and for the City/County of Williamsburg, aforesaid personally appeared William H. Carr and John J. McCormack and did acknowledge the foregoing instrument to be their Act.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal this 30th day of December, 2004.

Sarah H. Idle
Notary Public

My Commission expires: February 28, 2006

Approved as to form:

M. H. H. Gray
County Attorney

This Declaration of Covenants prepared by:

John J. McCormack
(Print Name)
Director of Operations
Saint Bede Catholic Church
(Title)

10 Harrison Avenue
(Address)

Williamsburg, VA 23185
(City) (State) (Zip)

757-229-3700 x 26
(Phone Number)

drainage1.pre

SCHEDULE A
PROPERTY DESCRIPTION

That certain lot or parcel of land located in James City County, Virginia shown and set out as "PARCEL 'A' ±42.8 ACRES (FORMERLY ± 45.8 ACRES AS SHOWN ON UNRECORDED PLAT BY DeYOUNG, JOHNSON)" on the plat entitled "Property Line Adjustment Plat of the Property of Sasha L. Digges and Mary Catherine Digges Located on Ironbound Road, James City County, Virginia" made by Langley and McDonald, P.C. and dated 12/12/97, which plat is recorded in the Clerk's Office of the Circuit Court for the City of Williamsburg and County of James City in James City Plat book 72 at page 85.

Together with all the improvements thereon, rights and privileges, tenements, hereditaments, easements and appurtenances unto the said land belonging or in anywise appertaining.

This conveyance is made subject to the conditions, restrictions and easements of record or apparent on the ground, if any, affecting the property.

Being a portion of the property conveyed to Grantor by Deed dated December 21, 1984 and recorded in the Clerk's Office of the Circuit Court for the City of Williamsburg and County of James City in James City Deed Book 261 at page 641 and by Deed dated September 16, 1981 and recorded in the Clerk's Office of the Circuit Court for the City of Williamsburg and County of James City in James City Deed Book 217 at page 108.

to record on 16 February, 2021 at 3:38 PM
in the Clerk's Office of the Circuit Court for the City of Williamsburg and
County of James City. The taxes imposed by Section 58.1-801
and § 514 have been paid.

STATE TAX	LOCAL TAX	ADDITIONAL TAX
\$ _____	\$ _____	\$ <u>1653.50</u>

TESTE: BETSY B. WOOLRIDGE, CLERK

BY: Betsy B. Woolridge, Deputy Clerk

FEB-60 0153

(38-3)(01-0-0018-)
CONSIDERATION: \$1,653,013.00

010001887

EXEMPTION CLAIMED: 58.1-811 (2)

THIS DEED, made this 6th day of February, 2001, by and between SASHA L. DIGGES, SR. and MARY CATHERINE KNOTT DIGGES, husband and wife, ("Grantors"), and THE MOST REVEREND WALTER F. SULLIVAN, BISHOP OF THE CATHOLIC DIOCESE OF RICHMOND, VIRGINIA AND HIS SUCCESSORS IN OFFICE, ("Grantee") whose address is 811 Cathedral Place, Richmond, Virginia 23220.

W I T N E S S E T H

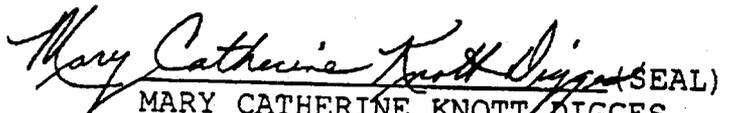
THAT FOR AND IN CONSIDERATION of the sum of TEN DOLLARS (\$10.00) cash in hand paid by the Grantee to the Grantors, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Grantors do hereby bargain, sell, grant and convey with General Warranty and English Covenants of Title unto THE MOST REVEREND WALTER F. SULLIVAN, BISHOP OF THE CATHOLIC DIOCESE OF RICHMOND, VIRGINIA AND HIS SUCCESSORS IN OFFICE, the following described property, to-wit:

SEE ATTACHED SCHEDULE A

FEB-6 0 15 1

WITNESS the following signatures and seals:


SASHA L. DIGGES, SR.


MARY CATHERINE KNOTT DIGGES

STATE OF VIRGINIA AT LARGE
CITY/COUNTY OF WILLIAMSBURG, to-wit:

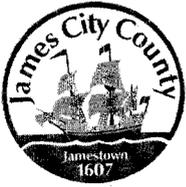
The foregoing instrument was acknowledged before me this 6th day of February, 2001, by Sasha L. Digges, Sr. and Mary Catherine Knott Digges, husband and wife.


NOTARY PUBLIC

My commission expires:
12/31/04

PREPARED BY AND RETURN TO:
VERNON M. GEDDY, III, ESQUIRE
GEDDY, HARRIS, FRANCK & HICKMAN, L.L.P.
516 SOUTH HENRY STREET
WILLIAMSBURG, VIRGINIA 23185

FEB-60 0152



**James City County Environmental Division
Stormwater Management/BMP Record Drawing and
Construction Certification Review Tracking Form**

Project Name: Saint Beles Catholic Church Bio Retention Basin MC 052

County Plan No.: SP-028-01

Stormwater Management Facility: Bioretention Basin

BMP Phase #: I II III

Information Package Received. Date/By: June 04 Landmark Peter Farrell

Completeness Check:

Record Drawing Date/By: 6/29/05 Peter Farrell Landmark

Construction Certification Date/By: 6/16/05 Stephen C Barrs C.A. Barrs

RD/CC Standard Forms (Required for all BMPs after Feb 1st 2001 Only)

Insp/Maint Agreement # / Date: 050000447 1/10/05

BMP Maintenance Plan Location: Page R-7

Other: _____

Standard E&S Note on Approved Plan Requiring RD/CC or County comment in plan review

Yes No Location: 2.2.0

Assign County BMP ID Code #: Code: MC 052

Preliminary Input/Log into Division's "As-Built Tracking Log"

Add Location to GIS Map. Obtain basic site information (GPIN, Owner, Address, etc.)

Preliminary Log into Access Database (BMP ID #, Plan No., GPIN, Project Name, etc.)

Active Project File Review (correspondence, H&H, design computations, etc.)

Initial As-Built File setup (File label, folder, copy plan/details/design information, etc.)

Inspector Check of RD/CC (forward to Inspector using transmittal for cursory review).

Pre-Inspection Drawing Review of Approved Plan (Quick look prior to Field Inspection).

Final Inspection (FI) Performed Date: 4/21/08

Record Drawing (RD) Review Date: 4/18/08

Construction Certification (CC) Review Date: 4/18/08

Actions:

No comments.

Comments. Letter Forwarded. Date: _____

Record Drawing (RD)

Construction Certification (CC)

Construction-Related (CR)

Site Issues (SI)

Other: _____

Second Submission: NA

Reinspection (if necessary): NA

Acceptable for SWM Purposes (RD/CC/CR/Other). Ok to proceed with bond release.

Complete "Surety Request Form". SP-028-01 (attached to)

Check/Clean active file of any remaining material and finish "As-Built" file.

Add to County BMP Inventory/Inspection schedule (Phase I, II or III).

Copy Final Inspection Report into County BMP Inspection Program file.

Obtain Digital Photographs of BMP and save into County BMP Inventory.

Request mylar/reproducible from As-Built plan preparer.

Complete "As-built Tracking Log".

Last check of BMP Access Database (County BMP Inventory).

Add BMP to JCC Hydrology & Hydraulic database (optional).

Add BMP to Municipal BMP list (if a County-owned facility)

Add BMP to PRIDE BMP ratings database.

Final Sign-Off

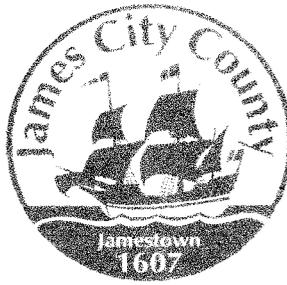
Inspector: [Signature]

Date: 7/10/08

Chief Engineer: _____

Date: _____

*** See separate checklist, if needed.



James City County, Virginia
Environmental Division

Stormwater Management / BMP Facilities
Record Drawing and Construction Certification Forms

(Note: In accordance with the requirements of the Chesapeake Bay Preservation Ordinance, Chapter 23, Section 23-10(4), BMP's shall be designed and constructed in accordance with the manual entitled James City County Guidelines for Design and Construction of Stormwater Management BMP's. Erosion and sediment control policy and approved plans generally require that at the completion of the project and prior to release of surety, an "as-built" plan prepared by a registered Professional Engineer or Certified Land Surveyor must be provided for the drainage system for the project, including any Best Management Practice (BMP) facilities. In addition, for BMP facilities involving the construction of an impounding structure or dam embankment, certification is required by a Professional Engineer who has inspected the structure during its construction. Currently there are over 20 water quality type BMP's accepted by the County.)

Section 1 - Site Information:

Project Name: SAINT BEDE CATHOLIC CHURCH
Structure/BMP Name: MC052 Bioretention Basin
Project Location: 3086 FRONTBOUNDS ROAD WILLIAMSBURG
BMP Location: parking lot
County Plan No.: SP - 028 - 01

Project Type: Residential Business Commercial Office Institutional Industrial Public Roadway Other CHURCH
Tax Map/Parcel No.: (28-3)(01-0-0018)
BMP ID Code (if known):
Zoning District: R-8 RURAL RESIDENTIAL
Land Use: HOUSE OF WORSHIP
Site Area (sf or acres): GROSS 42.9 AC

Brief Description of Stormwater Management/BMP Facility:
Bioretention basin. parking lot area. basin #2 and #3.
inlets #40 to #44

Nearest Visible Landmark to SWM/BMP Facility:

Nearest Vertical Ground Control (if known):
 JCC Geodetic Ground Control USGS Temporary Arbitrary Other
Station Number or Name:
Datum or Reference Elevation:
Control Description:
Control Location from Subject Facility:

Section 2 - Stormwater Management / BMP Facility Construction Information:

PreConstruction Meeting Held for Construction of SWM/BMP Facility: Yes No Unknown
Approx. Construction Start Date for SWM/BMP Facility: 10/01/02
Facility Monitored by County Representative during Construction: Yes No Unknown
Name of Site Work Contractor Who Constructed Facility: C. A. Barrs Contractor, Inc.
Name of Professional Firm Who Routinely Monitored Construction: ECS, Ltd & Landmark Design
Date of Completion for SWM/BMP Facility: 02/28/03
Date of Record Drawing/Construction Certification Submittal: _____

(Note: Record Drawing and Construction Certifications are required within thirty (30) days of the completion of Stormwater Management and/or BMP facility construction. Record Drawings and Construction Certifications must be reviewed and approved by the James City County Environmental Division prior to final inspection, acceptance and bond or surety release.)

Section 3 - Owner / Designer / Contractor Information:

Owner/Developer: *(Note: Site Owner or Applicant responsible for development of the project.)*
Name: SAINT BEDE PARISH CATHOLIC DIOCESE OF RICHMOND
Mailing Address: 3066 IRONBOUND ROAD
WILLIAMSBURG
Business Phone: 757-229-3631 Fax: 757-229-5361
Contact Person: ROBERT MORRIS Title: COMMITTED CHAIR

Design Professional: *(Note: Professional Engineer or Certified Land Surveyor responsible for the design and preparation of plans and specifications for the Stormwater Management / BMP facility.)*
Firm Name: LANDMARK DESIGN GROUP
Mailing Address: 4029 IRONBOUND ROAD, SUITE 100
WILLIAMSBURG
Business Phone: 757-253-2975
Fax: 757-229-0049
Responsible Plan Preparer: STEPHEN ROMEO
Title: LAND SURVEYOR
Plan Name: SITE DEVELOPMENT PLAN / E'S CONTROL NOTES + DETAILS
Firm's Project No. 197 0077-000.13
Plan Date: MARCH 26, 2001
Sheet No.'s Applicable to SWM/BMP Facility: _____ / _____ / _____ / _____ / _____

BMP Contractor: *(Note: Site Work Contractor directly responsible for construction of the Stormwater Management / BMP facility.)*
Name: C. A. Barrs Contractor, Inc.
Mailing Address: P.O. Box 1489
Yorktown VA 23692
Business Phone: 757-898-7282
Fax: 757-898-1282
Contact Person: Steve Barrs
Site Foreman/Supervisor: Scott St. Clair
Specialty Subcontractors & Purpose (for BMP Construction Only): _____

Section 4 - Professional Certifications:

Certifying Professionals: (Note: A Registered Professional Engineer or Certified Land Surveyor is responsible for preparation of a Record Drawing, sometimes referred to as an As-Built plan, for the drainage system for the project including any Stormwater Management/BMP Facilities. A Registered Professional Engineer is responsible for the inspection, monitoring and certification of Stormwater Management / BMP facilities during its construction.)

Record Drawing and Construction Certifications for Stormwater Management / BMP Facilities

Record Drawing Certification

Firm Name: LANDMARK DESIGN GROUP
Mailing Address: 4079 SHELTON ROAD, 100
WILLIAMSBURG, VA
Business Phone: 757-253-2975
Fax: 757-221-0049

Name: PETER FARRELL
Title: _____

Signature: [Signature]
Date: 6/29/05

I hereby certify to the best of my knowledge and belief that this record drawing represents the actual condition of the Stormwater Management / BMP facility. The facility appears to conform with the provisions of the approved design plan, specifications and stormwater management plan, except as specifically noted.

Construction Certification

Firm Name: C. A. Barrs Contractor, Inc.
Mailing Address: P.O. Box 1489
Yorktown VA 23692
Business Phone: 757-898-7282
Fax: 757-898-1282

Name: Stephen C. Barrs
Title: President

Signature: [Signature]
Date: 6/16/05

I hereby certify to the best of my knowledge and belief that this Stormwater Management/BMP facility was monitored and constructed in accordance with the provisions of the approved design plan, specifications and stormwater management plan, except as specifically noted.

ECS performed compaction testing and monitoring of installation and construction of Bioretention Basins. The Basins appeared to be constructed in accordance w/ project plans and specs



(Seal)

Virginia Registered Professional Engineer or Certified Land Surveyor



(Seal)

Virginia Registered Professional Engineer

SAINT BEDE CATHOLIC CHURCH

STORMWATER MANAGEMENT RECORD DRAWINGS

BERKELEY MAGISTERIAL DISTRICT
JAMES CITY COUNTY, VIRGINIA

JUNE 18, 2004

SHEET INDEX

SHEET NO.	DESCRIPTION
R-1	COVER SHEET
R-2	OVERALL PLAN AND SHEET INDEX
R-3	RECORD DRAWING PLAN
R-4	RECORD DRAWING PLAN
R-5	RECORD DRAWING PLAN
R-6	INFILTRATION PIT DETAILS
R-7	RECORD DRAWING DETAILS



VICINITY MAP

SCALE: 1"=2,000'

STATISTICAL DATA

TAX MAP AND PARCEL:	(38-3)(1-18)
ZONING:	R-8, RURAL RESIDENTIAL DISTRICT
PROPOSED USE:	HOUSE OF WORSHIP (SUP-15-00 APPROVED)
GROSS SITE ACREAGE:	42.9 AC.
F.E.M.A. PANEL NUMBER	510201 0035 B - DATED: FEB. 6, 1991
F.E.M.A. F.I.R.M. ZONE	ZONE X

OWNER / DEVELOPER:
SAINT BEDE PARISH
CATHOLIC DIOCESE OF RICHMOND

SITE ENGINEER:
LANDMARK DESIGN GROUP
4029 IRONBOUND ROAD, SUITE 100
WILLIAMSBURG, VA 23185
TELEPHONE: (757)-253-2975
FAX: (757)-229-0049

THESE RECORD DRAWINGS ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY LANDMARK DESIGN GROUP, JUNE OF 2003 AND JUNE OF 2004.



LANDMARK
DESIGN GROUP

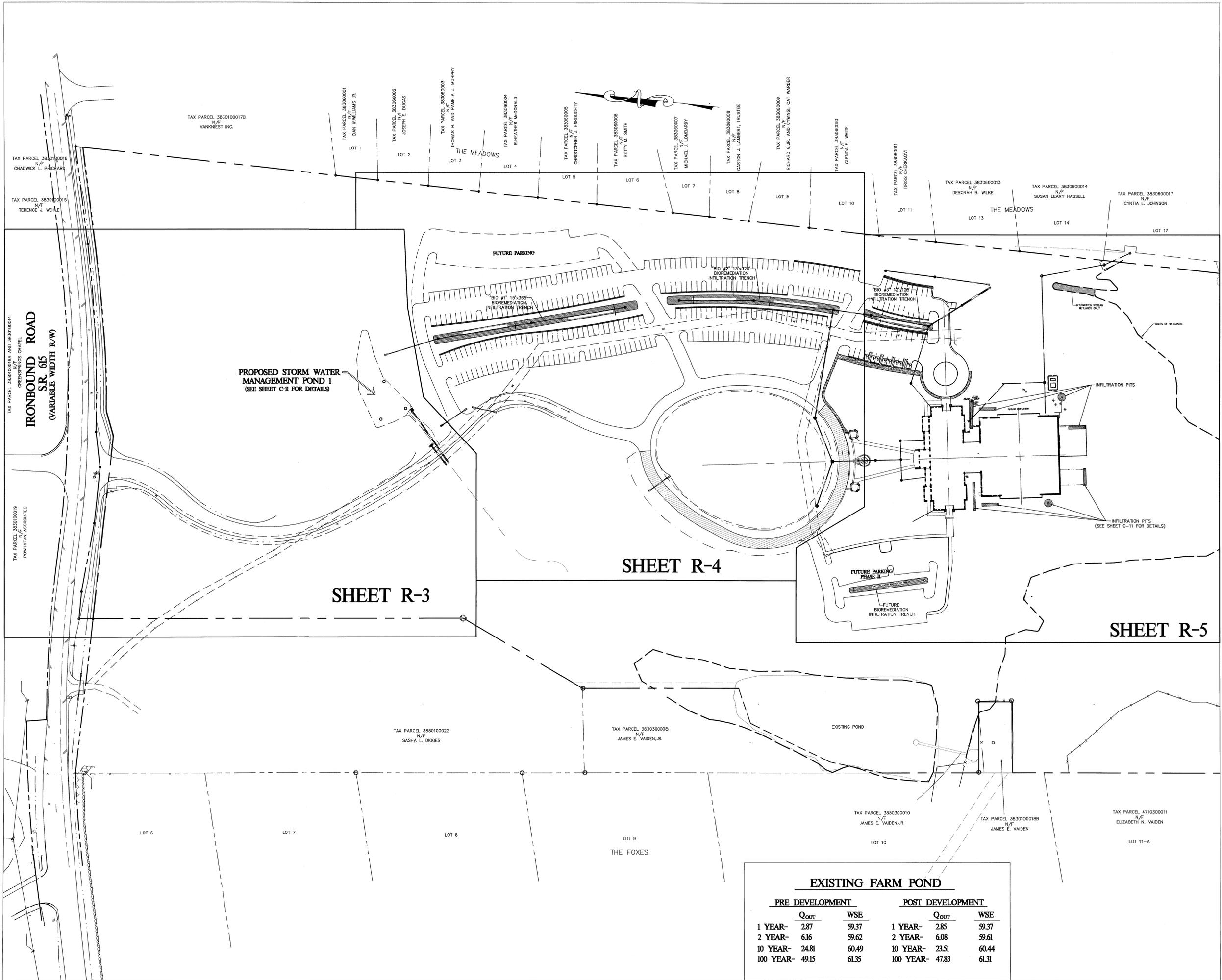
Engineers • Planners • Surveyors
Landscape Architects • Environmental Consultants

4029 Ironbound Rd., Suite 100
Williamsburg, VA 23188
Tel. (757) 253-2975
Fax (757) 229-0049
Email: info@landgroup.com

5544 Greenwich Road - Suite 200
Virginia Beach, VA 23464
Tel. (757) 433-2000
Fax (757) 497-7933
Email: info@landgroup.com

Project Number: 1970077-000.37
Dwg. File No.: 15218W
Drawing Number

R-1



EXISTING FARM POND

	PRE DEVELOPMENT		POST DEVELOPMENT	
	Q _{OUT}	WSE	Q _{OUT}	WSE
1 YEAR-	2.87	59.37	1 YEAR- 2.85	59.37
2 YEAR-	6.16	59.62	2 YEAR- 6.08	59.61
10 YEAR-	24.81	60.49	10 YEAR- 23.51	60.44
100 YEAR-	49.15	61.35	100 YEAR- 47.83	61.31



4029 Ironbound Road
 Williamsburg, VA 23188
 Tel: (757) 733-2979
 Fax: (757) 733-2978
 Email: info@landmarkdesigngroup.com

5844 Greenloch Road
 Suite 200
 Norfolk, VA 23502
 Tel: (757) 473-2007
 Fax: (757) 473-2033
 Email: info@landmarkdesign.com

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 Landscape Architects • Environmental Consultants

REVISIONS:

No.	Date	Comment

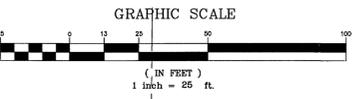
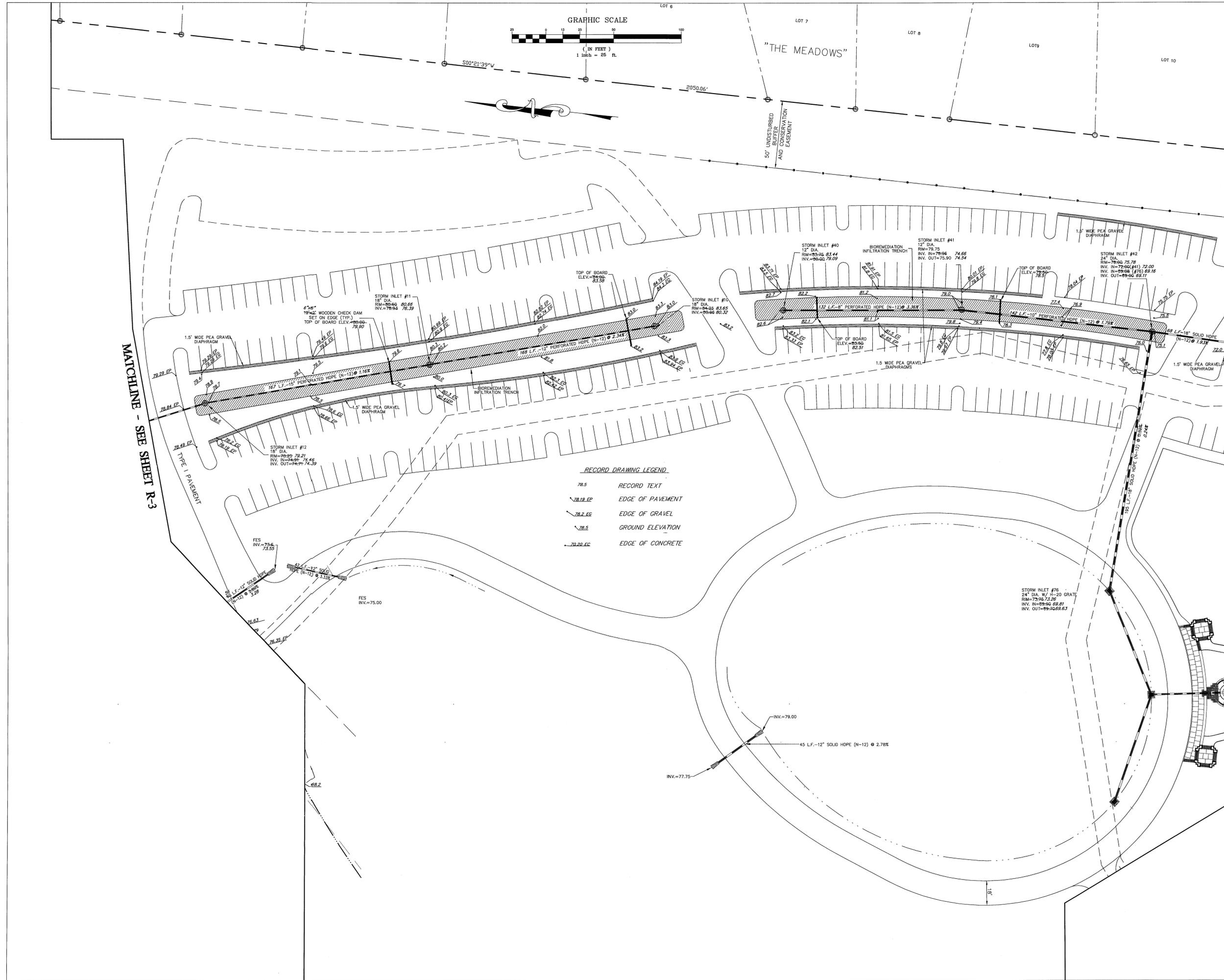
OVERALL PLAN AND SHEET INDEX

STORMWATER MANAGEMENT RECORD DRAWINGS

ST. BEDE CATHOLIC CHURCH
 BERKELEY MAGISTERIAL DISTRICT
 JAMES CITY COUNTY VIRGINIA

Designed: LMDG Date: 08-18-04
 Checked: AST Scale: 1"=60'
 File Mgr./Drawn: CADD File name: rec-sheet-2
 Project Number: 1970077-000.37
 Drawing Number: 15217W

R-2



RECORD DRAWING LEGEND

78.5	RECORD TEXT
78.18 EP	EDGE OF PAVEMENT
78.2 EG	EDGE OF GRAVEL
78.5	GROUND ELEVATION
70.00 EC	EDGE OF CONCRETE



4028 Inwood Road
Suite 100
Farmingdale, VA 23168
Tel: (757) 233-0000
Fax: (757) 233-0000
www.landmarkdesigngroup.com

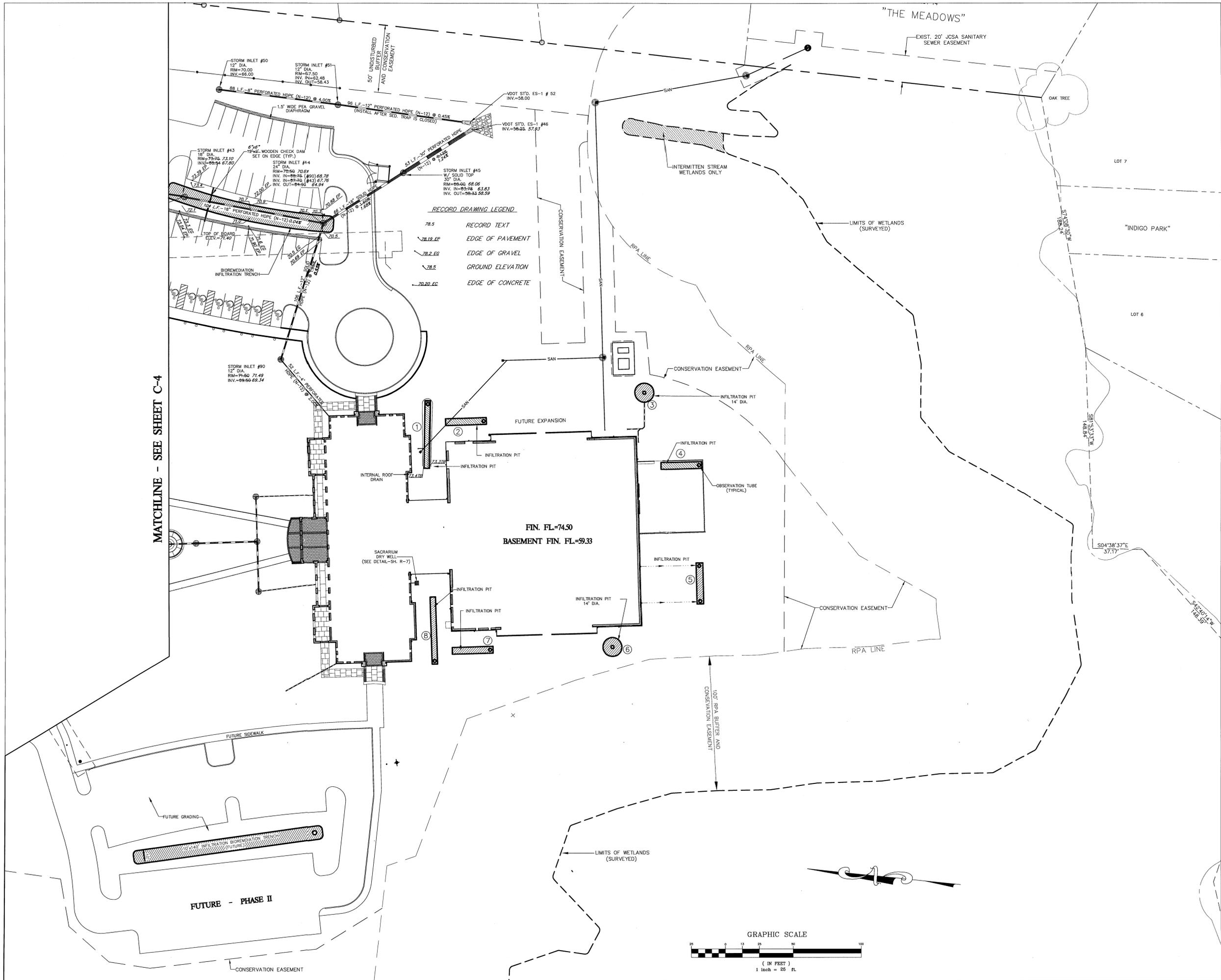
LANDMARK DESIGN GROUP
Landscape Architects • Environmental Consultants

No.	Date	By	Comment

STORMWATER MANAGEMENT RECORD DRAWINGS
ST. BEDE CATHOLIC CHURCH
BERKELEY MAGISTERIAL DISTRICT
JAMES CITY COUNTY VIRGINIA

Designed: LMDG	Date: 06-18-04
Checked: AST	Scale: 1"=60'
File Mgr./Drawn: PF	CADD File name: rec-sheet-2
Project Number: 1970077-000.37	Dep. File No.: 15215W
Drawing Number	

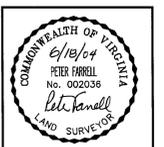
R-4



MATCHLINE - SEE SHEET C-4

RECORD DRAWING LEGEND

78.5	RECORD TEXT
78.12 EP	EDGE OF PAVEMENT
78.2 EG	EDGE OF GRAVEL
78.5	GROUND ELEVATION
70.20 EC	EDGE OF CONCRETE



4029 Ironhorse Road
 Suite 100
 Fairfax, VA 22036
 Tel: (703) 251-2272
 Email: info@landmarkdesign.com

6544 Riverman Road
 Virginia Beach, VA 23462
 Suite 200
 Tel: (757) 497-7833
 Fax: (757) 497-7833
 Email: info@landmarkdesign.com

LANDMARK DESIGN GROUP
 Engineers • Architects • Surveyors
 Landscape Architects • Environmental Consultants

No.	Date	Comment

STORMWATER MANAGEMENT RECORD DRAWINGS
 ST. BEDE CATHOLIC CHURCH
 BERKELEY MAGISTERIAL DISTRICT
 JAMES CITY COUNTY VIRGINIA

Designed: LMDC	Date: 06-18-04
Checked: AST	Scale: 1"=60'
File Mgr./Drawn: PF	CADD File name: rec-sheet-2
Project Number: 1970077-000.37	Dwg. File No.: 15214W
Drawing Number: R-5	



5044 Greenloch Road
Williamsburg, VA 23188
Tel: (757) 228-0018
Fax: (757) 228-0019
Email: info@landmarkdesign.com

5544 Greenloch Road
Williamsburg, VA 23188
Tel: (757) 493-3000
Fax: (757) 493-3000
Email: info@landmarkdesign.com

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Landscape Architects • Environmental Consultants

No.	Date	By	Comment

STORMWATER MANAGEMENT RECORD DRAWINGS
ST. BEDE CATHOLIC CHURCH
BERKELEY MAGISTERIAL DISTRICT
JAMES CITY COUNTY, VIRGINIA

Designed: LMDC	Date: 06-18-04
Checked: AST	Scale: 1"=60'
File Mgr./Drawn: PF	CADD File name: rec-sheet-2
Project Number: 1970077-000.37	Proj. File No.: 15213W
Drawing Number: R-6	

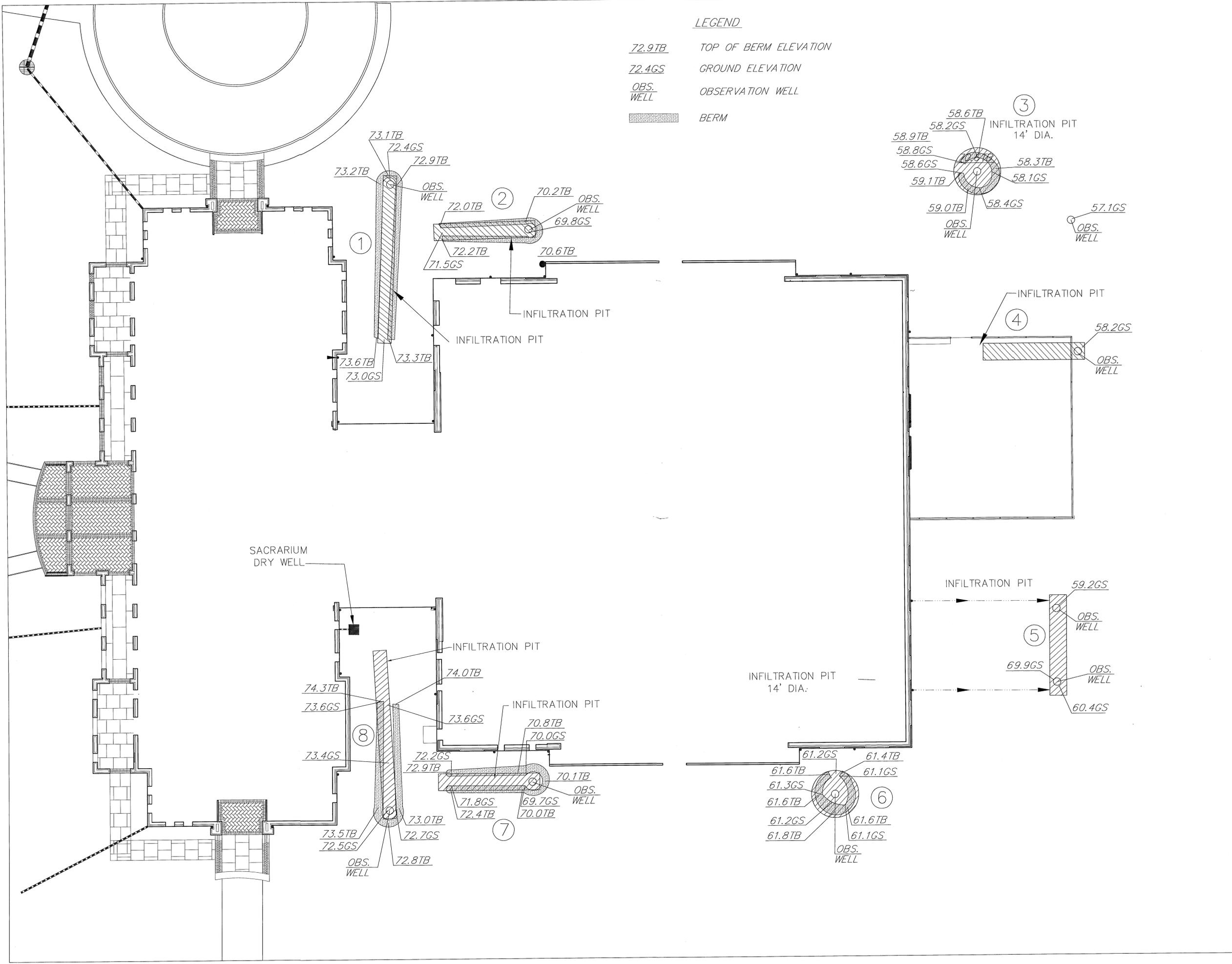
LEGEND

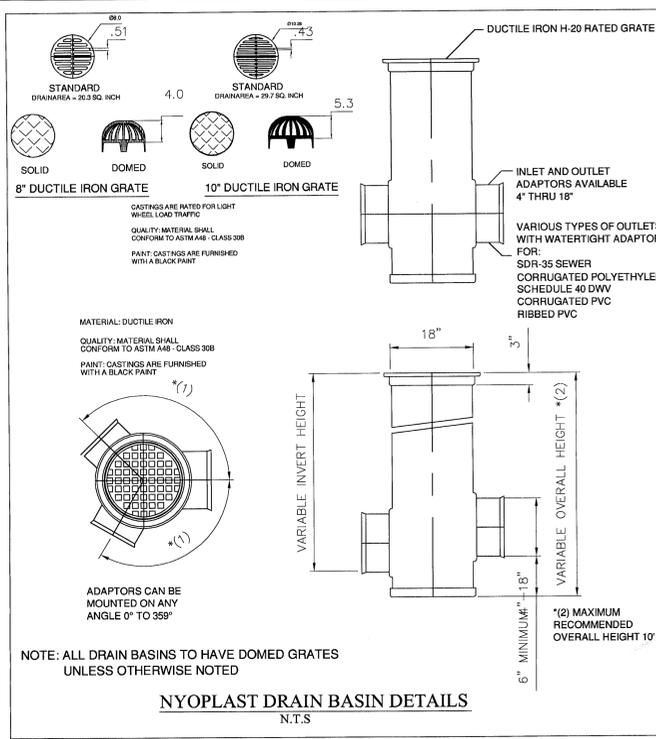
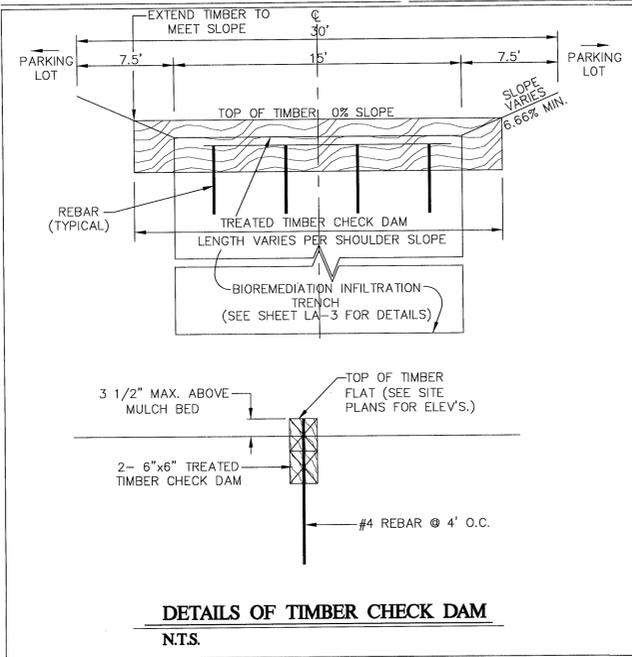
72.9TB TOP OF BERM ELEVATION

72.4GS GROUND ELEVATION

OBS. WELL OBSERVATION WELL

BERM





BMP INVENTORY

BMP TYPE	STRUCTURE NAME / NUMBER	LOCATION	PLAN SHEET	DETAILS SHOWN ON SHEET(S)
INFILTRATION BASIN	POND NO. 1	NORTH END OF SITE, EAST OF STA. 16+00 TO 17+50 OF ENTRANCE DR.	C-3	C-11
BIOREMEDIATION INFILTRATION TRENCHES	"BIO NO. 1"	NORTHERN PARKING BAY BETWEEN STRUCTURES NO. 10 AND 12	C-4	C-11, LA-3 LA-4
	"BIO NO. 2"	NORTHERN PARKING BAY BETWEEN STRUCTURES NO. 40 AND 42	C-4	C-11, LA-3 LA-4
	"BIO NO. 3"	SOUTHERN PARKING BAY BETWEEN STRUCTURES NO. 43 AND 44	C-5	C-11, LA-3 LA-4
	FUTURE	FUTURE PARKING LOT BY EXIST. POND	C-5	C-11, LA-3 LA-4
INFILTRATION PITS	1	EAST SIDE OF CHURCH, BETWEEN GATHERING AND NAVE	C-5	C-11
	2	EAST SIDE OF CHURCH	C-5	C-11
	3	SOUTHEAST CORNER OF CHURCH	C-5	C-11
	4	MECHANICAL YARD	C-5	C-11
	5	SOUTH SIDE OF CHURCH BY WALKS	C-5	C-11
	6	SOUTHWEST CORNER	C-5	C-11
	7	WEST SIDE OF CHURCH	C-5	C-11
	8	WEST SIDE OF CHURCH, BETWEEN GATHERING AND NAVE	C-5	C-11

INSPECTION AND MAINTENANCE

GENERAL

-In accordance with the Maintenance/Inspection Guidelines as outlined in the Virginia Stormwater Management Handbook

1. Perform soil sampling on stabilized pond soil areas at least once every 4 years. Soil sampling and testing should be performed by qualified independent soil testing laboratory such as VPI & SU. Apply additional lime and fertilizer in accordance with test recommendations to maintain adequate stands of grass.
2. In stabilized pond areas, if vegetation covers less than 40% of soil surfaces, lime, fertilizer and seed in accordance with recommendations for new seedlings. If vegetation covers more than 40% but less than 70% of soil surfaces, lime, fertilizer and seed in accordance with current seeding recommendations or requirements of the Virginia Erosion and Sediment Control Handbook (VESC).
3. Perform quarterly inspections of the riser section and crest spillway for the absence of sediment and debris. Record water height in observation tubes and data and quantity of lost rainfall. Immediately remove any trash or debris that prevents the movement of water. Remove any trash and litter downstream and at the storm drain or channel inflow locations to maintain the integrity of the structure and provide an attractive appearance.
4. Perform yearly structural inspections of the facilities for damage. Structural inspection shall be performed on the concrete riser, anti-vortex device, trash rack, effluent weir, outlet baffle and pond embankments. If damage is evident, further investigation by a professional engineer may be required to assess the integrity of the structure.
5. Perform quarterly inspections of the graded side slopes of the facilities for signs of animal/rodent burrows or slope erosion. Immediately perform necessary repairs, refilling or reseeded.
6. Perform yearly observations of perimeter areas surrounding the facilities to ensure changes in land use, topography or access have not occurred and do not affect the operation, maintenance, access or safety features as provided. Appropriate action is required to ensure adequacy and to provide a clear, safe passage for maintenance vehicles to the engineered embankment and principal flow control structures.
7. Inspect and exercise pond drain valves, if provided, on a regular basis.
8. Record keeping: The owner or designated representative shall keep reasonable, accurate written records of inspections performed for the structures. Records shall document routine maintenance and/or repairs performed. Copies shall be provided to the County upon request.
9. The facilities shall not accept additional drainage or be modified in any way without prior consent or approval by the Environmental Division of James City County.

POND #1
-In accordance with the guidelines in Minimum Standard and Specification 3.10A (Infiltration Basins)

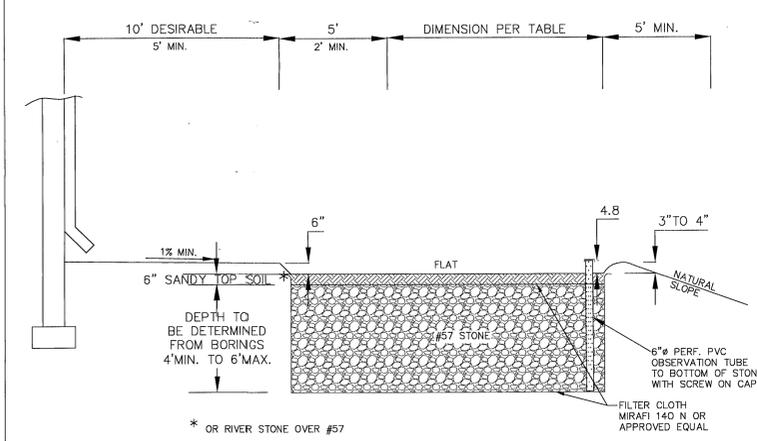
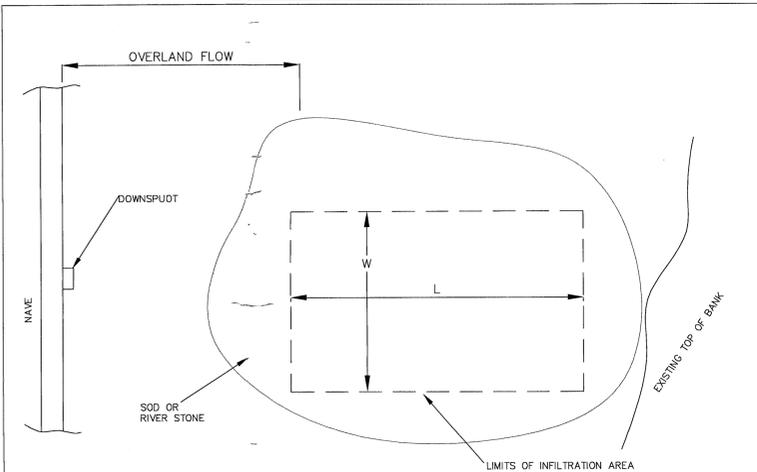
1. Inspect for sediment buildup by visual observation and a physical determination of sediment depth within pond storage areas. If the depth of sediment reaches the Cleanout Elevation of 70.2 feet or a depth of 2 inches in the Primary Pond and/or elevation 71.5 feet in the forstap bay the entrance road, removal is required. At the same time, or at least once per year, clean the riser bottom and outlet pipes of accumulated sediments. Dispose of sediments removed from the facility at an acceptable disposal area. (Note: Cleanout Elevation corresponds to 10 percent of the Water Quality Volume)
2. Perform maintenance mowing of pond grasses at least twice each year. Grasses such as tall fescue should be mowed in early summer after emergence of the heads on cool season grasses and in late fall to prevent seeds of annual weeds from maturing. Mowing of legumes can be less frequent. Trees, shrubs and woody vegetation are not to be permitted to grow along or any part of the embankment that was constructed using engineered (compacted) fills. These growing in other parts of the pond should not be disturbed.
3. If water stands in the pond for more than 6 days without rain, pond shall be pumped dry, all sediment shall be removed, the surface soil shall be diked or seeded and reseeded. If standing water becomes a persistent problem, the pond shall be rebuilt as an extended detention wet pond or a pond wetland system.

Bioremediation Infiltration Trenches
-In accordance with the guidelines in Minimum Standard and Specification 3.10B (Infiltration Trenches)

1. Inspect and clean trench surfaces and surrounding plantings at least 4 times a year. Remove any trash and/or dead plants. Remove any debris from around outlet riser pipes.
2. Replenish mulch layer annually.
3. Treat diseased plant material. Replace dead or incurable plant material with similar species.
4. After 2 years, timber check dams may be removed or allowed to rot.
5. Check riser pipes and inlets twice a year for standing water and debris, snake underdrains as needed.

INFILTRATION PITS
-In accordance with the guidelines in Minimum Standard and Specification 3.11 (Bioretention Basins)

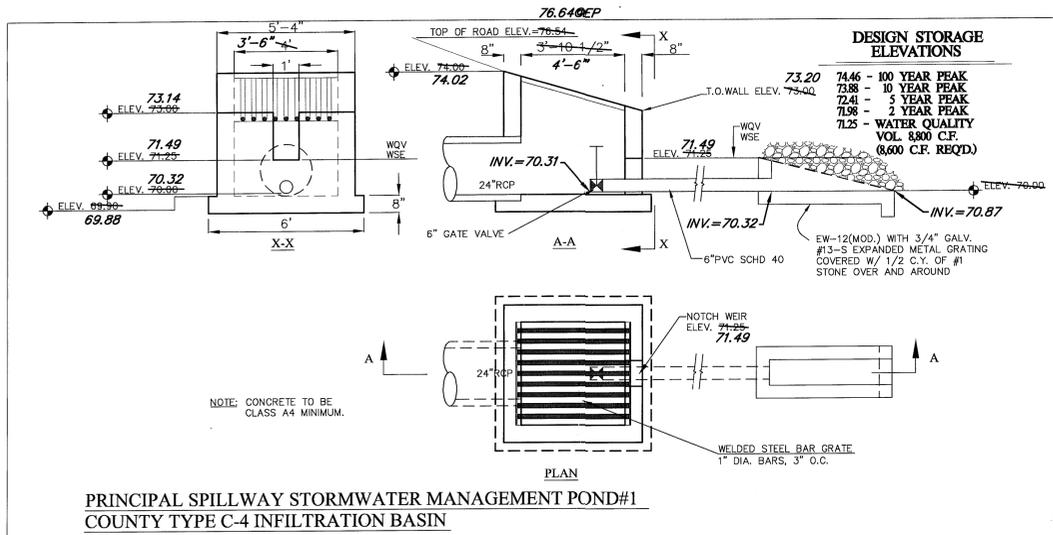
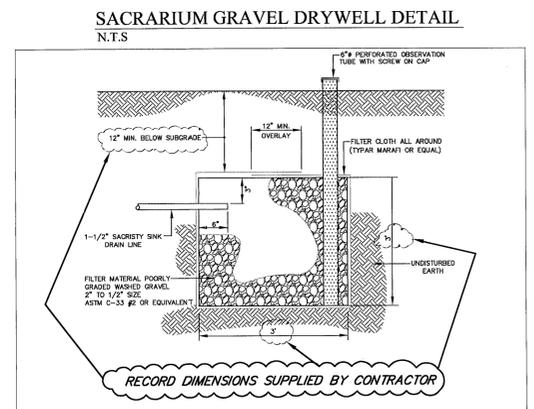
1. Maintain good turf management practices around pits, with limited application of fertilizers and herbicides, to promote thick and effective vegetative filters between roof downspouts and pits. Remove debris from areas draining to the pits monthly. Immediately stabilize and replant any bare spots.
2. Should a pit become clogged, excavate structure, wash and add new stone, excavate one foot of material from bottom of pit and replace with coarse uniform sand, and reconstruct pit.



INFILTRATION PIT SIZING

INFILTRATION PIT #	ROOF AREA SF	TREATMENT VOLUME (1" RUNOFF) CF	REQUIRED VOLUME WITH STONE - CF (40% VOIDS)	DEPTH FEET	SURFACE AREA	W	L	VOLUME PROVIDED DIAMETER	SURFACE TYPE
1&8	3832.5	319	798	4	200	4	50	800	GRASS
2,5&7	2812.5	234	586	4	146	5	30	600	GRASS
3&6	2812.5	234	586	4	146	6	25	616	GRASS
4	2812.5	234	586	4	146	6	25	600	STONE

RECORD DIMENSIONS SUPPLIED BY CONTRACTOR



COMMONWEALTH OF VIRGINIA
6/19/04
PETER FARRELL
No. 002036
LAND SURVEYOR

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LANDMARK DESIGN GROUP
Engineers • Planners • Surveyors
Landscape Architects • Environmental Consultants

STORMWATER MANAGEMENT RECORD DRAWINGS
ST. BEDE CATHOLIC CHURCH
BERKELEY, MAGISTERIAL DISTRICT
JAMES CITY COUNTY, VIRGINIA

Designed: LMDG Date: 06-18-04
Checked: AST Scale: 1"=60'
File Mgr./Drawn: PF CADD File name: rec-sheet-2
Project Number: 1970077-000.37 Dwg. File No.: 15212W
Drawing Number: R-7



**James City County Environmental Division
Stormwater Management / BMP Inspection Report
Bioretention Facilities**

County BMP ID Code (if known): MC052

Name of Facility: St. Bedes BMP No.: _____ Date: _____

Location: _____

Name of Owner: _____

Name of Inspector: _____

Type of Facility: BIORETENTION AREAS #2 AND #3 (INLET 40-44)

Weather Conditions: Sunny Warm 60s Type: Final Inspection County BMP Inspection Program Owner Inspection

If an inspection item is not applicable, mark NA, otherwise mark the appropriate column.

- O.K. - The item checked is in adequate condition and the maintenance program is currently satisfactory. No action required.
- Routine - The item checked requires attention, but does not present an immediate threat to the function/integrity of the BMP.
- Urgent - The item checked requires immediate attention to keep the BMP operational and prevent damage to the facility.

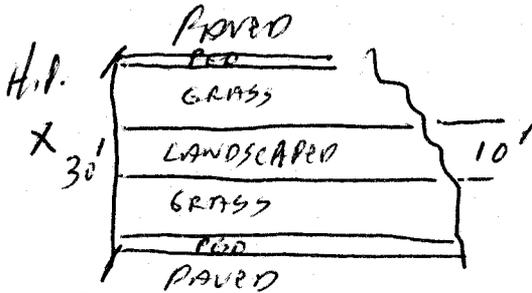
Provide an explanation and details in the comment column, if routine or urgent are marked.

Facility Item	O.K.	Routine	Urgent	Comments
Accessibility:				<u>BACK end of Park Lot A-P to Church Bldg.</u>
Roads	✓			
Parking Areas	✓			
Gates	NA			
Locks	NA			
Safety Fencing	NA			
Observation Wells/Areas:				<u>12" NYLOPLAST DRAINS w/ REMOVABLE GRATES</u>
Trap Doors	✓			<u>INLET 7' DEEP @ HIGH END</u>
Manhole Covers	✓			<u>CELL 2. 6' DEEP @ LOW</u>
Grates	✓			<u>END CELL 3.</u>
Steps	NA			
Pretreatment Devices:	<input type="checkbox"/> Inlet <input type="checkbox"/> Sump <input type="checkbox"/> Forebay <input checked="" type="checkbox"/> Other			
Sediment				<u>5' WIDE GRASS AREA</u>
Trash & Debris				<u>NO P&D ON NORTH SIDE</u>
Structure				<u>PER PLAN-</u>
Other				
<u>Two cell bioret area bio #2 (270') biocell #3 (100'), 10' w LAND</u>				
<u>AREA w/ check dams; nyloplast inlets & drains. Same basic</u>				
<u>config area Bio #1 only smaller section. Inlet 7' deep @ Low end Bio #2</u>				
<u>9-timbers in cell #2, 0 timbers in Cell #3; 18" w Pa Grave/ Diaphragm & Grass</u>				
Inflow Structure (Describe Type/Location):				

Facility Item	O.K.	Routine	Urgent	Comments
Condition	✓			Sheet flow parking area to biocell
Erosion	✓			
Trash and Debris	✓			
Sediment	✓			
Aesthetics	✓			
Other				PAVED
Primary Infiltration (Bioretention Cell) Area:				
Specialty Landscaping	✓			Trees, shrubs, ground cover
Mulch Layer	✓			new mulch in cell 3
Planting Soil/Sand	✓			Moist
Subgrade Soil	✓			Moist
Aggregate	✓			Can't observe except inlet
Underdrain	✓			" " " "
Sediment	✓			None
Aesthetics				
Overflow or Bypass Control Structure (Describe Type/Location): None				
Condition				if leaves cell area goes back into parking lot & follows grade. Some problems in past. appear rectified.
Erosion				
Trash & Debris				
Sediment				
Other				
Outlet Structure (Describe Type/Location): 18" solid wall CPP to outfall				
Condition				Eventually to 3" CPP outfall to north of prayer garden
Erosion				
Trash & Debris				
Sediment				
Other				
Contributing Drainage Area/Perimeter Conditions:				
Land Use	✓			stabilized, paved & landscaped
Stabilization	✓			
Trash & Debris	✓			
Pollutant Hazard	✓			
Other				

Facility Item	O.K.	Routine	Urgent	Comments
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Sketch and/or Remarks:



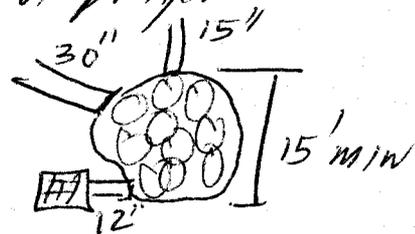
Cell #2

- Clean & remove veg from around n/s of last inlets in cell #2.
- Remove inv. veg & weeds cell #2
- Remove cell #2 (recomm not vegd)
- Remove silt fence @ low end cell 2, replace w/ earth berm if needed to contain runoff from bypassing

Cell #3

- Newly mulched. Looks good.
- Plants look good.
- Like way the inlet was modified w/ wire fencing (chicken wire)

* Reestablish OP at system outfall north of prayer garden. Need 8'W x 15' L CLASS I @ Level grade.



Overall Environmental Division Internal Rating: 3

Signature: Scott J. Thomas P.E.

Date: 1-12-06

Title: SENIOR ENGINEER ENV DIV

Date Record Created:

WS_BMPNO:

Print Record

Created By:

MC052

PRINTED ON
Friday, March 12, 2010
9:47:49 AM

WATERSHED MC
 BMP ID NO 052
 PLAN NO SP-28-01
 TAX PARCEL (38-3)(1-18)
 PIN NO 3830100018
 CONSTRUCTION DATE 2/28/2003
 PROJECT NAME St. Bedes Church BMP 3 of 4
 FACILITY LOCATION 3686 Ironbound Road
 CITY-STATE Williamsburg, Va
 CURRENT OWNER Saint Bedes Parish Catholic Diocese of Richmond
 OWNER ADDRESS 3686 Ironbound Rd
 OWNER ADDRESS 2
 CITY-STATE-ZIP CODE Williamsburg, VA 23188
 OWNER PHONE 757-229-3631
 MAINT AGREEMENT Yes
 EMERG ACTION PLAN No

MAINTENANCE PLAN

SITE AREA acre

LAND USE

old BMP TYP

JCC BMP CODE

POINT VALUE

SVC DRAIN AREA acres

SERVICE AREA DESCR

IMPERV AREA acres

RECV STREAM

EXT DET-WQ-CTRL

WTR QUAL VOL acre-ft

CHAN PROT CTRL

CHAN PROT VOL acre-ft

SW/FLOOD CONTROL

GEOTECH REPORT

No

House of Worship

Bioretention

D1 Bioretention

1.55

Parking Lot

0.00

No

No

No

No

CTRL STRUC DESC

CTRL STRUC SIZE inches 200sqft

OTLT BARRL DESC NA

OTLT BARRL SIZE Inch 1.5

EMERG SPILLWAY No

DESIGN HW ELEV

PERM POOL ELEV

2-YR OUTFLOW cfs 0.00

10-YR OUTFLOW cfs 0.00

REC DRAWING No

CONSTR CERTIF No

LAST INSP DATE

Inspected by:

INTERNAL RATING

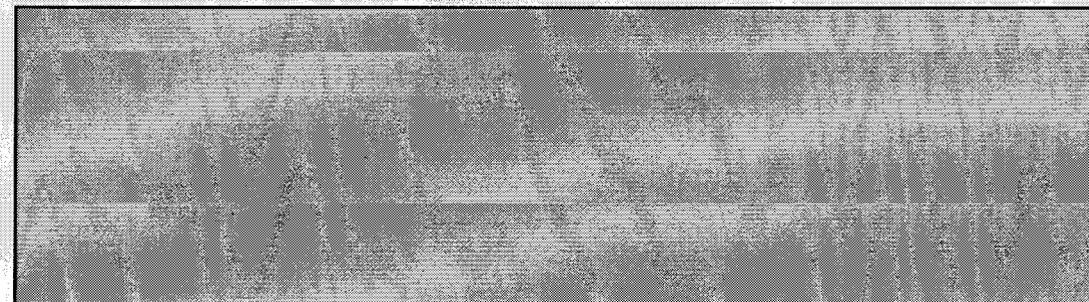
MISC/COMMENTS

Bio # 2 and # 3 (inlet 40 to 44) to creek.

Get Last BMP No

Return to Menu

Additional Comments:



Record Drawings for this
project is located in the
Infiltration Pond File

Project Number-(SP-028-01)

BMP Number-(MC-050)