



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.

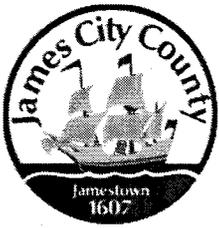
BMP NUMBER: PC025

DATE VERIFIED: October 23, 2012

QUALITY ASSURANCE TECHNICIAN: Leah Hardenbergh

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA



Stormwater Division

MEMORANDUM

DATE: March 13, 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: PC025

PIN: 4621700001

Subdivision, Tract, Business or Owner

Name (if known):

Powhatan Crossing

Property Description:

Lot 1 Section 4

Site Address:

4492 Powhatan Crossing

(For internal use only)

Box 4

Drawer: 2

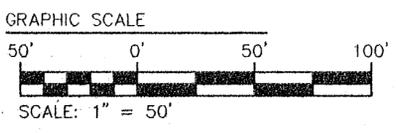
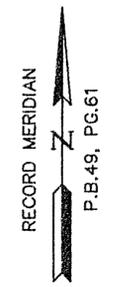
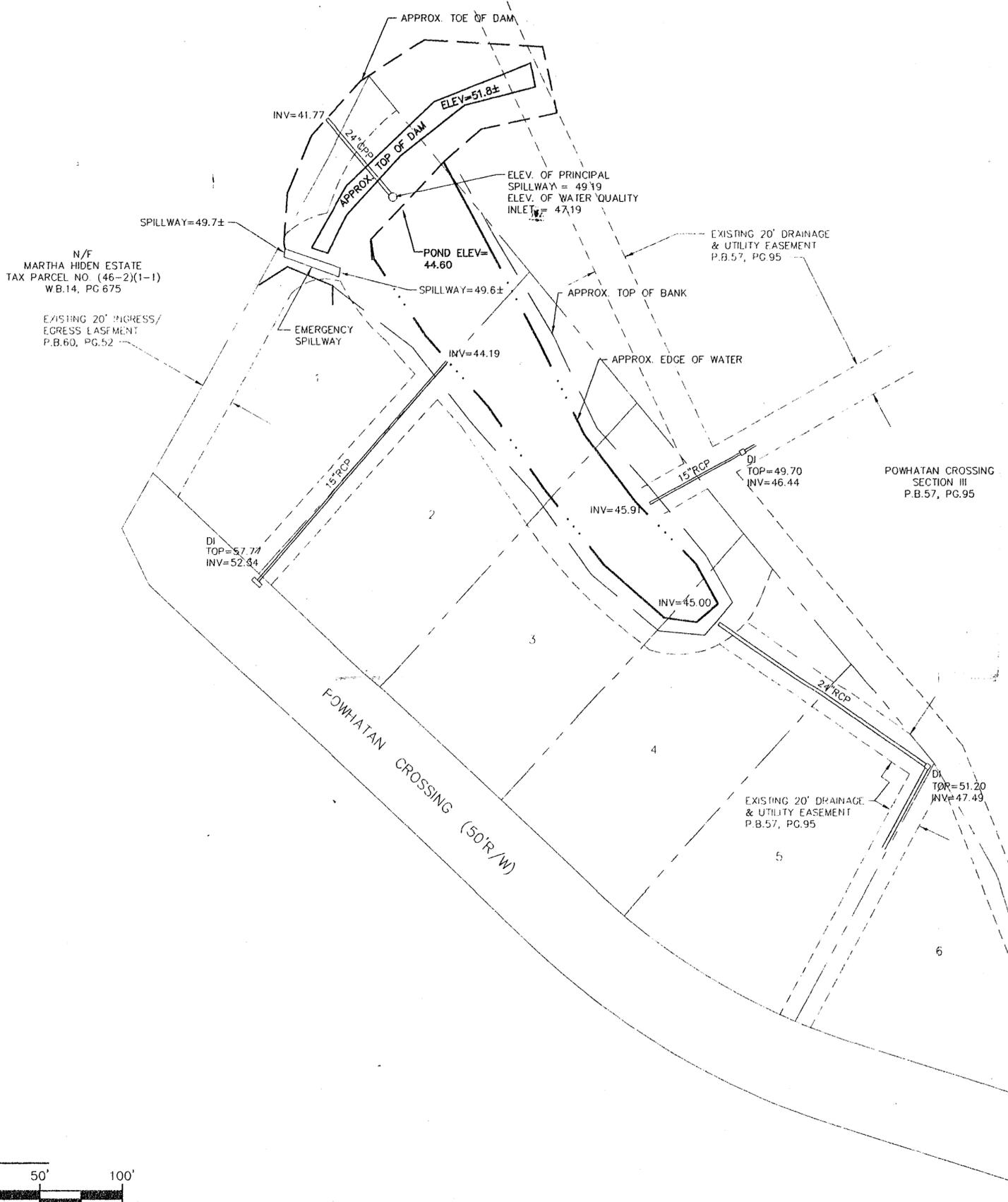
Agreements: (in file as of scan date) N

Book or Doc#:

Page:

Comments

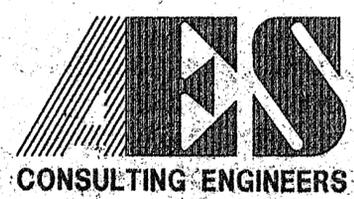
Owner of property as of 3/3/10 is Madeira, Clyde M and Martha E. Powhatan Crossing Inc is responsible for maintenance of the SW facility



PC 025 S-15-94

NOTE: ELEVATIONS AS SHOWN BASED UPON JAMES CITY CO. BATHEY CONTROL (NVD29)

04.19.96-09:24 69500T00
M.L.P.



5248 Olde Towne Road, Suite 1
Williamsburg, Virginia 23188
(804) 253-0040
Fax (804) 220-8994

**AS-BUILT
EXISTING POND
POWHATAN CROSSING
SECTION IV**

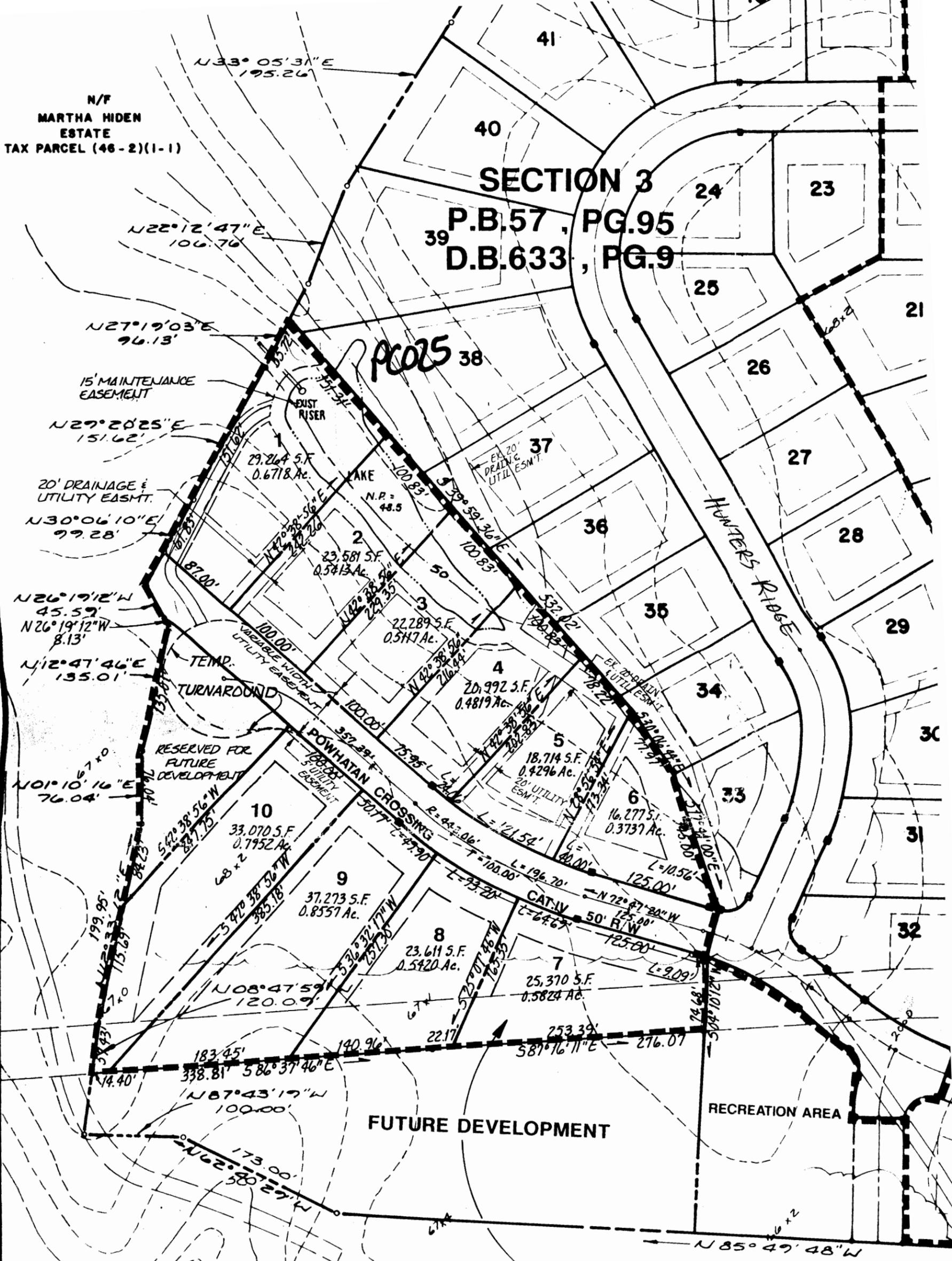
BERKELEY DISTRICT JAMES CITY COUNTY VIRGINIA

No.	DATE	REVISION / COMMENT / NOTE	BY
1	4/19/96	ADDITIONAL INFORMATION	MLP

Designed	Drawn
Scale	Date
1"=50'	03/12/96
Project No.	
6950	
Drawing No.	
1 OF 1	

N/F
 MARTHA HIDEN
 ESTATE
 TAX PARCEL (46-2)(1-1)

SECTION 3
 P.B.57, PG.95
 D.B.633, PG.9



SECTION 4

GENERAL NOTES

1. A SUBDIVISION AGREEMENT, WITH SURETY SHALL BE EXECUTED PRIOR TO RECORDING LOTS.
2. THE DEVELOPER SHALL PAY 1 YEAR RENT TO JAMES CITY COUNTY FOR STREET LIGHT RENTAL.
3. A SUBDIVISION BOND IS REQUIRED PRIOR TO RECORDING LOTS.
4. ALL UTILITY LINES TO BE PLACED UNDERGROUND.
5. A LAND DISTURBING PERMIT AND SILTATION AGREEMENT, WITH SURETY ARE REQUIRED FOR THIS PROJECT.
6. WATER AND SEWER INSPECTION FEES SHALL BE PAID PRIOR TO THE ISSUANCE OF A LAND DISTURBING PERMIT.
7. A PRECONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE BETWEEN THE COUNTY, THE DEVELOPER, THE PROJECT ENGINEER AND THE CONTRACTOR PRIOR TO ISSUANCE OF A LAND DISTURBING PERMIT. THE CONTRACTOR SHALL SUBMIT A NARRATIVE PLAN TO THE COUNTY PRIOR TO THE PRECONSTRUCTION CONFERENCE DETAILING THE SEQUENCE OF CONSTRUCTION FOR THE PROJECT INCLUDING INSTALLATION OF EROSION CONTROL MEASURES.

61+1
 S-15-94
 PC 025
 POWHATAN CROSSING
 SEC 3/4
 DESIGN
 SEAL 2/11/94

N/F
 MARTHA HIDEN
 ESTATE
 TAX PARCEL (46-2)(1-1)

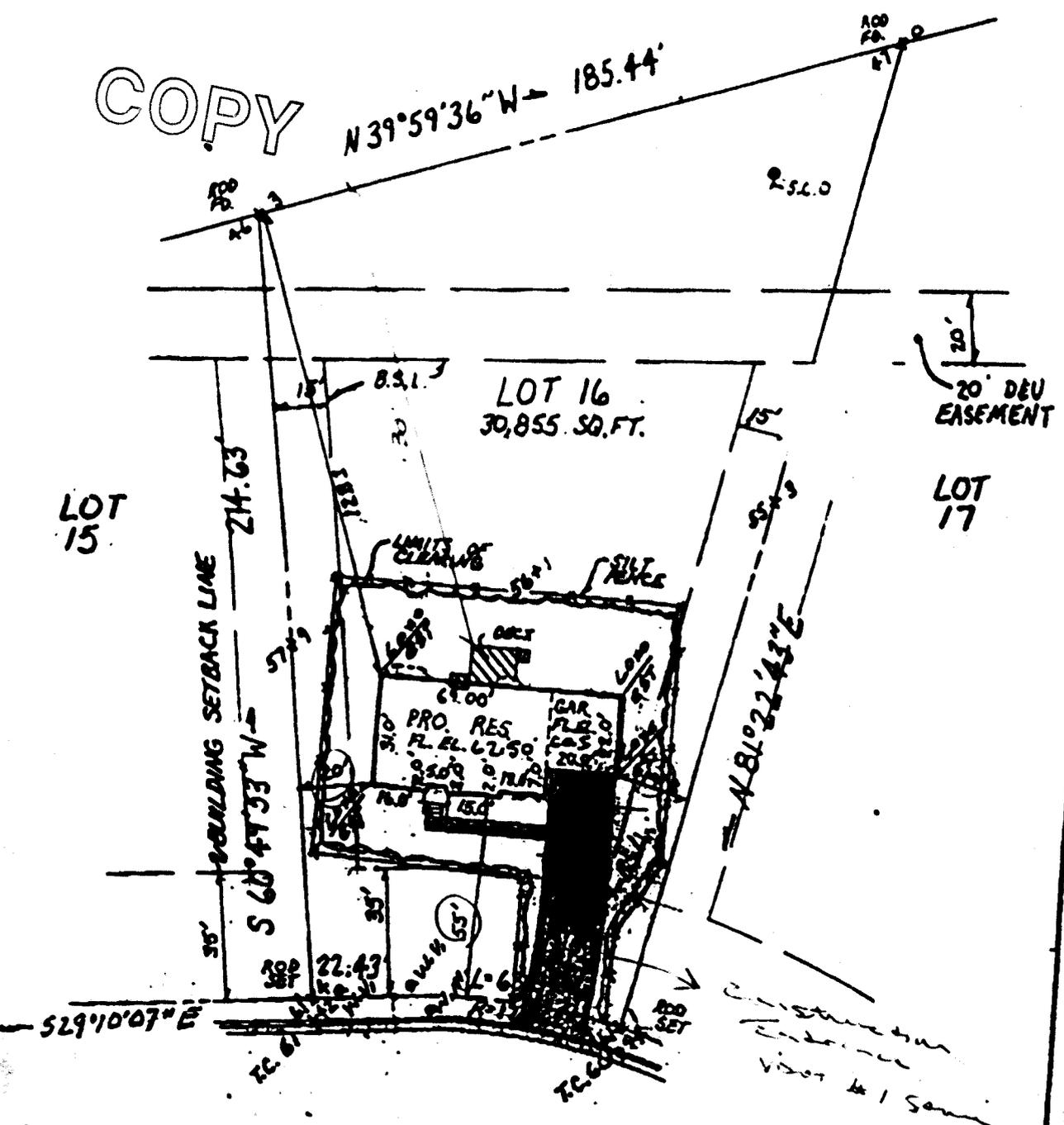
BUILDING RESTRICTIONS, R-1

PROPERTY IS ZONED LIMITED RESIDENTIAL DISTRICT, R-1. LOTS ARE SERVED BY PUBLIC WATER AND SEWER. MINIMUM LOT SIZE ALLOWABLE = 15,000 S.F. 0.3444 AC.

FRONTAGE REQUIREMENTS:
 LOTS UP TO 43,560 S.F. SHALL HAVE A MINIMUM WIDTH OF 100 FEET.

COPY

Hampton Jesse Parcel
3500 Hunters Ridge



HUNTER'S RIDGE 50'R/W

REF: P.B. 57, P. 95
 FLOOD ZONE: X
 COMMUNITY NO.: 510201
 PANEL NO.: 35
 AFFIX: B
 DATE OF FIRM: 2-6-91

E&S APPROVED AS NOTED
 BY: _____


 JOHNNY S. WALTERS, III C.L.S.

DEVELOPMENT PLAN
 LOT 16
 POWHATAN CROSSING
 SECTION III
 JAMES CITY COUNTY VIRGINIA

CERTIFICATION OF SOURCE OF TITLE

THE PROPERTY SHOWN ON THIS PLAT WAS CONVEYED BY MAYO W. WALTRIP AND ANNIE LEE WALTRIP TO POWHATAN CROSSING, INC. BY DEED DATED JULY 22, 1993 AND TO BE RECORDED IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT OF THE COUNTY OF JAMES CITY CONTEMPORANEOUSLY WITH THIS PLAT.

POWHATAN CROSSING
SECTION 3 5-103-89
PB 57 P. 95
DB 633 P. 9
RECORDED
8/2/93

N/F
MARTHA HIDEN
ESTATE
TAX PARCEL (46-2) (1-1)

OWNER'S CERTIFICATE

THE SUBDIVISION OF LAND SHOWN ON THIS PLAT AND KNOWN AS POWHATAN CROSSING, SECTION III IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRE OF THE UNDERSIGNED OWNERS, PROPRIETORS AND OR TRUSTEES.

C. Lewis Waltrip 7-26-93
C. LEWIS WALTRIP, DATE
PRESIDENT, POWHATAN CROSSING, INC.

CERTIFICATE OF NOTARIZATION

STATE OF VIRGINIA

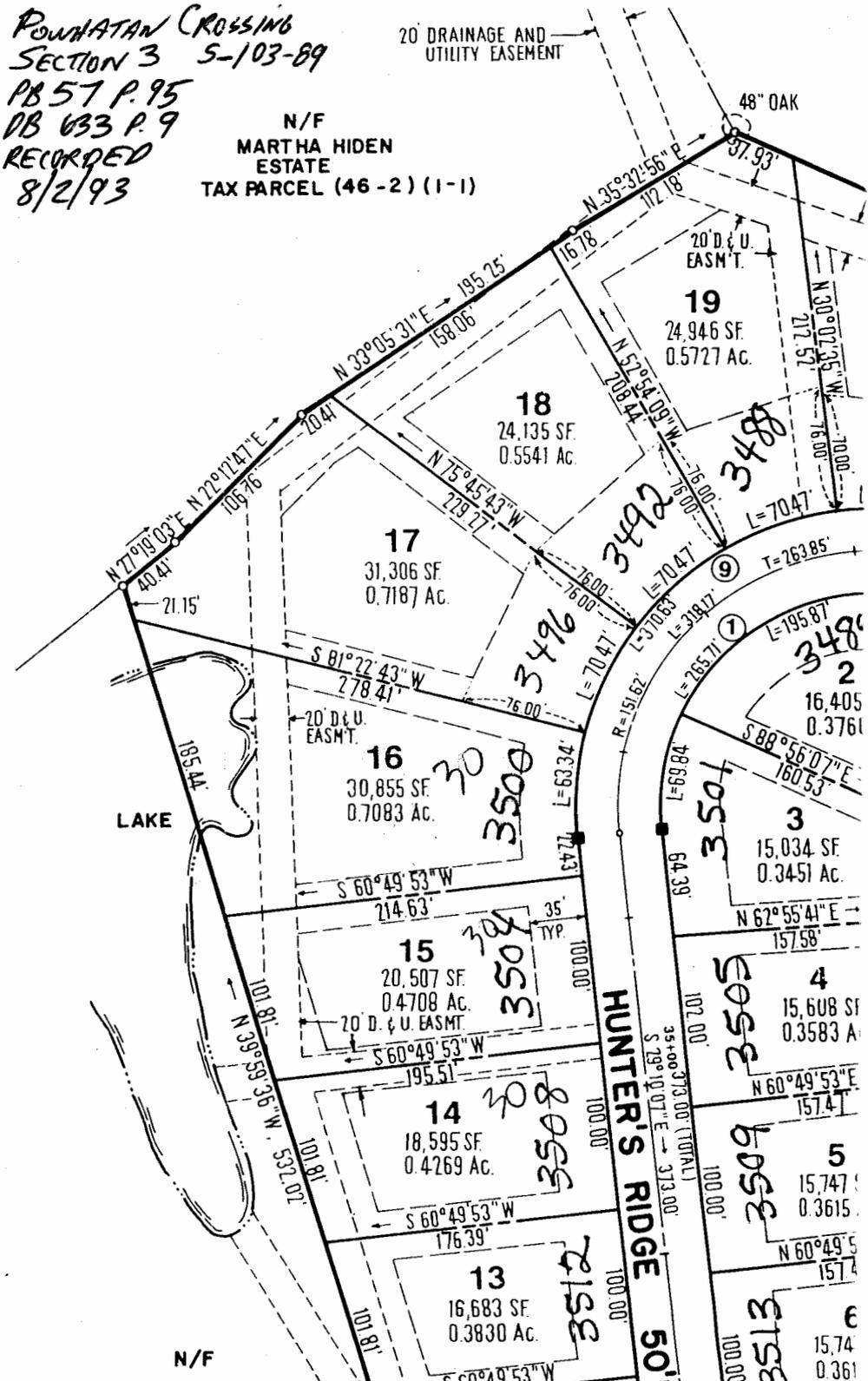
CITY/COUNTY OF JAMES CITY W. F. MATTOX A NOTARY PUBLIC IN AND FOR THE CITY/COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT THE PERSONS WHOSE NAMES ARE SIGNED TO THE FOREGOING WRITING HAVE ACKNOWLEDGED THE SAME BEFORE ME IN THE CITY/COUNTY AFORESAID. GIVEN UNDER MY NAME THIS 20th DAY OF JULY, 1993 MY COMMISSION EXPIRES 9/30/95

William F. Mattox
SIGNATURE

ENGINEER OR SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE OR BELIEF, THIS PLAT COMPLIES WITH ALL OF THE REQUIREMENTS OF THE BOARD OF SUPERVISORS AND ORDINANCES OF THE COUNTY OF JAMES CITY, VIRGINIA, REGARDING THE PLATTING OF SUBDIVISIONS WITHIN THE COUNTY.

G. T. Wilson, Jr. 7/23/93
G. T. WILSON, JR., C.L.S. DATE



Scott Thomas

Modified:

Thu 10/23/2003 11:14 AM

Note to File

Following letter from Darryl on Feb 23 2001, Waltrip performed work on the BMP to satisfy our concerns. A big anti-seep collar was poured and all items in the letter completed. Staff monitored the level in the pond for a few weeks and observed normal pool was not being held at the control orifice.

Some time later, around the time of the Hiden Property rezoning, Waltrip came back excavated around the riser, repaired a faulty riser/barrel connection and poured an additional seep collar at the dam toe. Also around this time, I proposed a solution to Bob Oliver to perhaps rectify the water level situation as persistently complained to our division by Hampton Jesse. I do not have a date on this.

Riser modifications were performed, including:

- 1 ft. slots near the top of the riser crest
- A second orifice hole slot in the riser
- Anchoring of the riser cap

Following addition staff monitoring, it appears that no leakage is present from the BMP. A final inspection was performed by SJT on 10/22/03.

Determination was made to release bond following about a year and a half of Waltrip working on the BMP.

Scott



SJT.
~~10-21-03~~
10-23-03

Scott Thomas

Modified: Wed 9/5/2001 2:46 PM

Powhatan Crossing Sec 3/4 Wet Pond PC 025
RE: Construction-Related Items for BMP

Beth & myself performed a followup inspection with Wayne Reed of Waltrip to go over the latest construction performed at the BMP facility. This work stemmed from our letter dated February 23rd (7 items); two items relayed to him and his work crews in the field (one was to seed and mulch areas within the emergency spillway and second was to remove trees at the barrel outfall). Also, the purpose of the meeting was to go over work associated with the installation of a concrete anti-seep collar along the barrel.

During the course of Waltrip's work to address our seepage concern (See items 3 and 4, letter dated 2/23), their work crews discovered a separated joint in the CMP barrel through the dam embankment. They excavated into the embankment, inspected and repaired the pipe joint and poured a large, unreinforced concrete anti-seep collar about mid-way through the embankment.

Based on our inspection this day, all items were addressed except the following:

- 1) The outfall to the storm drain inflow pipe on the east (Section 3) side was still undercutting the end section. Although compacted fill was placed to attempt to correct this condition, recent storms undercut it again. It was decided that riprap was to be hand-placed at the pipe outfall to provide hard armoring and prevent further undercutting.
- 2) Although corrections were made to repair the outfall barrel and install the anti-seep collar, staff is not totally convinced that seepage from the normal pool was due solely because of the pipe separation. At the time of the inspection, the normal pool was still significantly below (1-2 feet) the low flow orifice; however, it was recognized that it has not rained substantially since the pond was drained to do barrel repair work. It was decided that no action would be performed to release any of the bond until such time as Env Div staff feels assured that the normal pool can be held at the low orifice elevation and that seepage is not present through the embankment soils (at the riser).

Scott J. Thomas

Scott Thomas

From: Scott Thomas
Sent: Thursday, August 16, 2001 9:40 AM
To: 'HDJINWMBG@aol.com'
Cc: Darryl Cook; Beth Davis
Subject: PC 025 Wet Pond in Powhatan Crossing

Mr. Jesse

In order to finish the work associated with repair of the pipe through the dam embankment, the water level in the pond had to be dropped slightly, so as not to have water in the work area around the riser (vertical) pipe. The lower pipe, which you mentioned is a drain pipe with a valve at the end. This feature is incorporated on most wet ponds in James City County. The drain pipe (w/ valve) is normally closed and not functioning unless some sort of maintenance activity is required at the pond.

One of the issues we still had with the facility (based on my original dam inspection report) was that there was an indication of a small seep along the pond barrel (ie. the pipe through the embankment) and prior to any release of the bond, there needed to be corrective action (to our satisfaction) by Waltrip or an assessment from a qualified engineer to determine whether the seep, if present, would not be detrimental to the stormwater function or structural integrity of the dam. In my professional opinion, a seep of this nature (and if it was indeed present) if left uncorrected could lead to more serious conditions at the dam embankment. When Waltrip started their work, they quickly found one problem associated with the barrel, as there was a separation in one of the pipe joints about mid-way through the dam embankment. That was the reason for their excavation into the dam- to repair the joint and form a concrete collar, which we call an anti-seep collar, around the repair area.

I specifically visited the facility again on Tuesday August 14th as a followup to the heavy rains which occurred last week (Week of August 6th) to check on its status. Although the water level was up slightly, there was an area at the riser pipe (ie. the large vertical pipe in the water pool) where it appeared that a small amount of leakage could still be occurring. Water around the riser pipe was working its way into soil fissures at this location. This also would not be acceptable and would require corrective action. Wayne Reed from Waltrip also visited the site on his own and saw the same occurrence and knew some additional work would be required.

So that's where we sit right now. In this case, there is not any kind of failure at the facility, but a work-initiated action to lower the water surface in the pond. Wayne Reed from Waltrip opened the drain valve to lower the pond water surface elevation to finish work associated with the small seepage problem. I feel certain once the corrective actions are performed and satisfactorily completed, the water elevation will establish itself back quickly.

As a followup to your email from today, I spoke with Mr. Reed on the telephone and will be visiting the site again this afternoon to observe work activities. Please feel certain that Environmental Division staff is monitoring the work activities and associated effects to the stormwater facility.

Can you please forward this message also to Mr. Jay Sexton, as I could not find his phone number.

Scott J. Thomas, P.E.

James City County
Environmental Division

-----Original Message-----

From: HDJINWMBG@aol.com [mailto:HDJINWMBG@aol.com]
Sent: Wednesday, August 15, 2001 7:30 PM
To: scottt@james-city.va.us
Cc: bdavis@james-city.va.us
Subject: The BMP in Powhatan Crossing

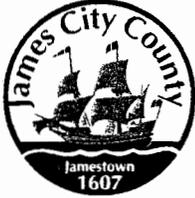
Scott, we have what appears to be a major problem with the BMP in Powhatan Crossing. Something must have happened today (August 15, 2001) and the BMP has drained to a point that at 6:00 p.m. today it was about 4 feet below the lowest level it has ever been in the seven years I have lived here. I went out to the dam and water is still gushing out through the drainage pipe at a very fast rate. I would suspect that if the water continues to run out at this rate the pond will be dry by tomorrow morning. A pipe leading into the round drainage pipe is visible that we have never seen before. Obviously, I don't know what the problem is but it has never been like this. I would hope that you and/or Beth could come out and take a look at this tomorrow morning.

Certainly, something will have to be done. I have to be in Newport News tomorrow morning at 7:30 a.m. but I should be home by 11:00 a.m. Jay Sexton, the president of our homeowners association said he would call you at your office tomorrow morning. It looks like we really need your help to get this problem resolved. Once this is resolved, I would like to get some information from you about the nature of this problem and what caused it

which I can pass on to our homeowners association board and to our homeowners. My phone is 259-0276.

Thanks

Hampton Jesse
3500 Hunter's Ridge
Williamsburg, VA 23188



DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE
(757) 253-6626
codecomp@james-city.va.us

ENVIRONMENTAL DIVISION
(757) 253-6670
environ@james-city.va.us

PLANNING
(757) 253-6685
planning@james-city.va.us

COUNTY ENGINEER
(757) 253-6678
INTEGRATED PEST MANAGEMENT
(757) 259-4116

August 1, 2001

Mr. Jesse Hampton
Powhatan Crossing HOA
3500 Hunters Ridge
Williamsburg, Va. 23188

Re: Powhatan Crossing Section 3 & 4
Stormwater Management Facility
County BMP ID Code: PC 025

Dear Mr. Hampton:

As discussed per our meeting on August 1st 2001, I am forwarding some "*first contact*" information for the stormwater management facility as referenced above.

Information as attached includes: general location maps, landscaping tips for stormwater management BMP's, a sample maintenance plan for a wet pond type stormwater management facility; and several informational brochures related to liability and maintenance of ponds. I have also attached various copies of other general information as collected by our division over the past two years and have provided photocopies of information relative to your lot and the BMP facility.

As discussed, our division is receptive to meeting with HOA members or BMP committee individuals to establish a maintenance plan for this specific facility or to give general presentations as required to meet your specific needs.

Our division is always readily available to assist owners and HOA representatives with guidance related to stormwater management facilities and we look forward working with you in the future. In the meantime, if you have any additional questions or comments, please call me at 757-253-6639.

Sincerely,

Scott J. Thomas, P.E.
Civil Engineer
Environmental Division

SWMPProg\Education\Subdivisions\PowCross.let1

Scott Thomas

From: Scott Thomas
Sent: Friday, July 27, 2001 4:09 PM
To: John Horne
Cc: Darryl Cook; Beth Davis
Subject: RE: The BMP in Powhatan Crossing

Powhatan Crossing Sec 3/4 (End of Powhatan Crossing)
BMP ID Code PC 025; S-15-94

I spoke with Mr. Jessie Hampton this morning about the issue, even before I got your email. In trying to close out several older project case files, this was one of the projects identified as still hanging out there. I briefly reviewed the case file and performed a thorough inspection of the facility including updating our BMP databases. We relayed a punch-list of seven (7) items to Waltrip via letter dated Feb 23rd that would need to be finished to even think about closing out the project. Yesterday July 26th me and Beth meet with Waltrip's people onsite to discuss the items because they wanted to commence work. During this process of events, I was not aware of this situation with this particular adjacent owner until this morning.

After seeing Waltrip crews onsite, he called. His request came to me more as a drainage complaint, than as a coordination activity with the HOA. He stated that he was dissatisfied with the BMP and it backs up a third of the way into his property. I set a meeting with him on Wed Aug 1st at 9:00 am to discuss his concerns, problems and the history behind his complaint. Obviously any serious issue to this property owner that would be related to any of our outstanding issues or if it relates to the stormwater function or structural integrity of the BMP would need to be resolved prior to our release of any bond.

However, my concern (based on my early discussions with him) is the conflict that he may have in his position with the HOA and his personal opinions of the BMP as an owner who lives directly adjacent to the facility. Regardless of the issues that remain (via our letter), it has to be determined if the facility is functioning as intended per design, if the effects to his property are caused by the original design, or if the problems are a result of the deficiencies we identified. This determination needs to be made.

For example, he stated to me that on heavy rains the water level in the pond backs up and floods a third of his property. Based on the plans and record drawing we have on file, any increase in the water surface elevation due to higher rainfall events would encroach onto his property and it has been that way ever since it was built/developed. You can clearly see the normal pool elevation on GIS as it relates to his property. Storm elevations would be higher than normal pool. Look on GIS under GPIN 4621500016; 3500 Hunters Ridge, Powhatan Crossing. Normal pool was surveyed on the as-built at El. 44.6. The top of the riser crest is at El. 49.19 and the emergency spillway is at El. 49.6; therefore, it could raise 5' above normal pool during a storm event. Depending on topography in his yard, it could result in a third of his yard being inundated.

I will do my best to respond quickly and meet him, discuss with Darryl any past issues that I may not be aware of and fully discuss the problem with the owner and make a determination with his personal interests and the HOA in mind. If I have to I will take some field shots to get a feel for what is occurring. Like I said I spoke with him preliminarily about it this morning, but want to talk with him further and walk the site with him. I also explained to him (regardless of the complaint) that I would like to coordinate with him and the HOA to set up a maintenance plan for the facility and get involved with them on other

issues related to the future of the facility.

If you need any more information than this, let me know. We can discuss it further after Wednesday.

Scott

-----Original Message-----

From: John Horne
Sent: Friday, July 27, 2001 10:20 AM
To: Scott Thomas
Subject: FW: The BMP in Powhatan Crossing

Please acknowledge the receipt of the message and then report to me once you know what is going on. Thanks

-----Original Message-----

From: Christy Parrish
Sent: Friday, July 27, 2001 8:32 AM
To: Darryl Cook; Scott Thomas
Cc: John Horne
Subject: FW: The BMP in Powhatan Crossing

Forwarding e-mail!

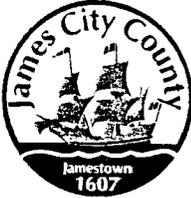
-----Original Message-----

From: HDJINWMBG@aol.com [mailto:HDJINWMBG@aol.com]
Sent: Thursday, July 26, 2001 5:51 PM
To: devtman@james-city.va.us
Subject: The BMP in Powhatan Crossing

I came home today to find employees of Lewis Waltrip working on the BMP behind my home at 3500 Hunter's Ridge in Powhatan Crossing. A neighbor informed me that they told her they were doing some work in preparation for the county to approve the transfer of responsibility of this BMP to the Powhatan Crossing Homeowner's Association. I am the treasurer of the homeowners association and I can assure you that the association has not been notified that this transfer of responsibility to us was eminent. There are at least two problems that must be addressed before this BMP can be turned over to the homeowners association. First, the BMP has been here more than ten years and before it is turned over to the homeowners association it must be cleaned out by Mr. Waltrip. Information that I have seen indicates that these BMP's need to be cleaned every 10 to 15 years and since we are more than 10 years into this BMP Mr. Waltrip must bear the responsibility for cleaning it the first time. Secondly, this BMP is not properly constructed since following heavy rains, 30% to 40% of my back yard floods rather than having the water retained in the BMP. Mr. Waltrip promised to fix this problem several years ago but has failed to do so and I am asking you not to release him from any responsibility to resolve these problems. This problem was also brought to the attention of Darrell Cook several years ago. I will

try to call your office on the morning of July 27 but I must go out of town that morning and will not return until late Monday, July 30. If you need to contact me I can be reached at 757-259-0276 on Monday night or later. Again, I ask that you not release Mr. Waltrip of any responsibility until these two problems have been addressed.

COPY



DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE
(757) 253-6626
codecomp@james-city.va.us

ENVIRONMENTAL DIVISION
(757) 253-6670
environ@james-city.va.us

PLANNING
(757) 253-6685
planning@james-city.va.us

COUNTY ENGINEER
(757) 253-6678
INTEGRATED PEST MANAGEMENT
(757) 259-4116

Reinspect 8/14/01

February 23, 2001

Powhatan Crossing, Incorporated
C. Lewis Waltrip, Incorporated
1554 Penniman Road
Williamsburg, Virginia 23185

NEW ITEMS

- ✓ SEED + MULCH AREA AT EMER. SPILLWAY*
- ✓ 2 trees @ barrel outfall.*
- ✓ RISER MODIFIED W/ PIPING REPAIR MONITORED BY SJT FOR MONTHS. OK*
- ✓ RISER CAP ANCHORED*

Re: Powhatan Crossing, Section Four

To Whom It May Concern:

An inspection of the above referenced project was conducted on February 13, 2001 for possible release of the surety bond. Below are the items that need to be corrected prior to the release of the bond.

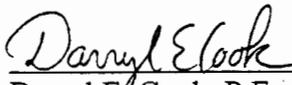
BMP ID #PC 025

- ✓* 1. *✓* An approximate 2 ft. deep hole was observed on the downstream embankment approximately 35 feet east of pond riser. This hole needs filled with compacted material. *NOT FILLED 08/14/01. ✓ 10/22/03*
- 2. *✓* The storm drain inflow pipe to the pond on the east (Section 3) side of the interior shoreline is undercut at the end of the flared end section. Continued erosion will cause settlement of the end section and damage to the 15-inch storm drain. Compacted soil backfill needs placed at and around the flared end section and riprap outlet protection needs restored at the outfall to minimize the chance of reoccurring erosion. *PIPE #1 OK. ✓*
- ③ *✓* An approximate 3 foot deep erosion and subsidence hole was present around the west and north sides of the pond's RCP riser. Also, the normal pool elevation of the wet pond was approximately 2 feet below the elevation of the control orifice (4 inch). This is indicative of possible seepage from around the riser to and along the pond's outlet barrel. Compacted fill needs replaced around the riser. *REPAIRED & INSPECTED 8/14/01. REPAIR NEEDED 10/22/03*
- ④ *✓* An assessment needs performed by a qualified professional engineer to evaluate the potential for seepage along the pond's barrel. Barrel repair, replacement or installation of seepage control measures may be required to remediate seepage along the barrel.

5. ✓ Clear and remove all trees and woody vegetation within 15 feet of the three (3) storm drainpipes which inflow into the pond and at the outfall end of the barrel through the pond embankment. *TWO TREES @ BARREL OUT NEED REMOVED. 08/14/01. ✓ 10/22/03*
6. ✓ Clear and remove all debris and woody vegetation from the pond's emergency spillway. *OK 08/14/01 ✓ 10/22/03*
7. Remove silt fence from the area around the BMP outfall. *NO 08/14/01 10/22/03*

You are welcome to schedule an appointment with an Engineering Inspector to discuss this matter further. Please contact our office if you have any questions or comments at (757) 253-6670.

Sincerely,



Darryl E. Cook, P.E.
Environmental Division Director

Scott Thomas

From: Scott Thomas
Sent: Wednesday, February 21, 2001 11:50 AM
To: Beth Davis
Subject: Powhatan Crossing

Powhatan Crossing Sec 3/4 Wet Pond
(End of Powhatan Crossing)
BMP ID # PC 025; Approved Plan No. S-15-94

Beth,

In reference to your request to "close out" the above project, here are my comments for the wet pond stormwater management facility as inspected on Feb 13 2001.

1) A Record Drawing (as-built) was found in the file and appears acceptable. It was prepared by AES, Project No. 6950 dated 3/12/96. No action required.

Construction-Related Items:

- 2) An approximate 2 ft. deep hole was observed on the downstream embankment approximately 35 feet east of pond riser. This hole needs filled with compacted material.
- 3) The storm drain inflow pipe to the pond on the east (Section 3) side of the interior shoreline is undercut at the end of the flared end section. Continued erosion will cause settlement of the end section and damage to the 15 inch storm drain. Compacted soil backfill needs placed at and around the flared end section and riprap outlet protection needs restored at the outfall to minimize the chance of reoccurring erosion.
- 4) An approximate 3 foot deep erosion and subsidence hole was present around the west and north sides of the pond's RCP riser. Also the normal pool elevation of the wet pond was approximately 2 feet below the elevation of the control orifice (4 inch). This is indicative of possible seepage from around the riser to and along the pond's outlet barrel. Compacted fill needs replaced around the riser.
- 5) An assessment needs performed by a qualified professional engineer to evaluate the potential for seepage along the pond's barrel. Barrel repair, replacement or installation of seepage control measures may be required to remediate seepage along the barrel.
- 6) Clear and remove all trees and woody vegetation within 15 feet of the three (3) storm drain pipe which inflow into the pond and at the outfall end of the barrel through the pond embankment.
- 7) Clear and remove all debris and woody vegetation from the pond's emergency spillway.

I feel the riser subsidence and possible barrel seepage problems are critical issues and may result in a possible embankment failure if not corrected. Therefore, I do not recommend the release of any bond for this facility/project at this time.

Scott

**James City County Environmental Division
Stormwater Management / BMP Inspection Report
Detention and Retention Pond Facilities**



S-15-94

Database Inventory No. (if known): PC 025
 Name of Facility: Powhatan Crossing Section 3/4 BMP No.: _____ of _____ Date: 2/13/01
 Location: POWATHAN CROSSING SEC 3/4 END OF POWATHAN CROSSING
 Name of Owner: 4492 POWATHAN CROSSING
 Inspector: _____
 Type of Facility: WET POND
 Weather Conditions: PARTLY CLOUDY, Low 50's, COLD-DAMP

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

- O.K. - The item checked is in adequate condition and the maintenance program is currently satisfactory.
- Routine - The item checked requires attention, but does not present an immediate threat to the function 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
Embankments and Side Slopes:				
Grass Height	✓			TOP MOWED.
Vegetation Condition	✓			
Tree Growth	✓			BOTTOM 1/3 LARGER TREES.
Erosion	✓			
Trash & Debris	✓			
Seepage		✓	✓	SOFT SOILS ON DIS RIGHT (EAST) WET SOILS, 2' deep hole 35' EAST OF RISER
Fencing or Benches	✓			
Interior Landscaping/Planted Areas: <input type="checkbox"/> None <input type="checkbox"/> Constructed Wetland/Shallow Marsh <input checked="" type="checkbox"/> Naturally Established Vegetation				
Vegetated Conditions				NATURAL WET POOL
Trash & Debris				LARGER TREES along
Floating Material				Shoreline BACK 1/2 OF NP.
Erosion				
Sediment				
Dead Plant				
Aesthetics				
Other				

Item	O.K.	Routine	Urgent	Comments
Water Pools	<input checked="" type="checkbox"/> Permanent Pool (Retention Basin) <input type="checkbox"/> Shallow Marsh (Detention Basin) <input type="checkbox"/> None (Detention Basin)			3-4' @ RISER
Shoreline Erosion	✓			NORMAL S.L. EROSION
Algae	✓			NONE
Trash & Debris	✓			LITTLE
Sediment	✓			ABOUT 1' @ RISER
Aesthetics	✓			
Other				
Inflow Structures (Describe Locations): MID WEST 15/18"; BACK 24" RCP (PIPE 2); 3- MID EAST 24"				
Condition of Structure	✓			
Erosion		✓	✓	PIPE 3 UNDERCUT
Trash and Debris				
Sediment				
Aesthetics				
Other		✓		PIPE 1 & 2 TREE REMOVAL (15') ? SED CLEAN & OUT.
Principal Flow Control Structure - Intake, Riser, etc. (Describe Location): 6" CMP CAP; 36" φ RCP; 4" BMP ORIF.				
Condition of Structure		✓	✓	EROSION AROUND RISER WEST SIDE
Corrosion	✓			3' DEEP; POSSIBLE BARREL
Trash and Debris	✓			SEEPAGE
Sediment	✓			
Aesthetics	✓			
Other		✓	✓	NP 2' BELOW 4" φ ORIFILE
Principal Outlet Structure - Barrel, Conduit, etc. : 24" CMP				
Condition of Structure	✓			CMP SURF RUST, STILL OK
Settlement	✓			NO SIGN OF FLOW IN RISER
Trash & Debris	✓			
Sediment		✓		
Erosion		✓		PIPE 3 UNDERCUT
Other		✓	✓	REMOVE TREES WITHIN 15' OUTLET POSSIBLE BARREL SEEPAGE
Emergency Spillway (Overflow): 8' WIDE, TRAP-SHAPE				
Vegetation	✓			
Lining	✓			
Erosion		✓		CHANNEL WALL EROSION.
Trash & Debris		✓		LARGE FELL TREE NEEDS REMOVED
Other	✓			
C & G SF LOTS STORM DRAIN TO POND.				

Facility Item	O.K.	Routine	Urgent	Comments
Nuisance Type Conditions:				
Mosquito Breeding	✓			
Animal Burrows		✓		POSSIBLE D/S RT.
Graffiti	✓			
Other	✓			
Surrounding Perimeter Conditions:				
Land Uses	✓			SF LOTS
Vegetation	✓			YARD + TREES.
Trash & Debris	✓			
Aesthetics	✓			NATURAL LOOK
Access /Maintenance Roads or Paths	✓			LOT 1.
Other	✓			

Remarks:

- ▷ NP 21 BELOW 4" LOW FLOW ORIFICE. POSSIBLE SEEPAGE
- ▷ EROSION WEST SIDE OF RISER 6 O'CLOCK TO 11'00. 3' DEEP. POSSIBLE RISER TO PARCEL SEEPAGE.
- ▷ WET SOILS/ HOLE 2' DEEP EMP D/S RIGHT (35' FROM RISER.)
- ▷ ES EROSION + TREE NEEDS REMOVED.
- ▷ INFLOW PIPE 1 - CLEAN SED @ PIPE OUTFALL / REMOVE WILLOW 15' FROM RISER
- ▷ PIPE 2 - MINOR CLEANING, CLEAN VEG 15' FROM OUTFALL.
- ▷ PIPE 3 - UNDERCUT OF 24" OUTFALL ES-1. NEEDS RIPRAP

Overall Environmental Division Internal Rating: 2/3 (RISK - SEEPAGE)
 RISER + OUTFALL REPAIRED 10/22/03 - 3

Signature: *Scott Thomas* Date: 2/13/01
 Title: Civil Engineer Environmental Division



WATERSHED	PC	MAINTENANCE PLAN	No	CTRL STRUC DESC	RCP Riser
BMP ID NO	025	SITE AREA acre		CTRL STRUC SIZE inches	48
PLAN NO	S-15-94	LAND USE	SF Residential	OTLT BARRL DESC	RCP
TAX PARCEL	(46-2)(17-01)	old BMP TYP	Wet Pond	OTLT BARRL SIZE inch	24
PIN NO	4621700001	JCC BMP CODE			
CONSTRUCTION DATE		POINT VALUE	9	EMERG SPILLWAY	Yes
PROJECT NAME	Powhatan Crossing Sec 3/4 Wet Pond			DESIGN HW ELEV	50.28
FACILITY LOCATION	Behind 4492 Powhatan Crossing			PERM POOL ELE	46.0
CITY-STATE	Williamsburg, Va. 23185	SVC DRAIN AREA acres	19.8	2-YR OUTFLOW cfs	
CURRENT OWNER	Powhatan Crossing, Inc.			10-YR OUTFLOW cfs	
OWNER ADDRESS	1554 Penniman Road			REC DRAWING	No
OWNER ADDRESS 2		SERVICE AREA DESCRI	SF Lots and Roads Section 3/4		
CITY-STATE-ZIP CODE	Williamsburg, Va. 23185	IMPERV AREA acres		CONSTR CERTI	No
OWNER PHONE		RECV STREAM	UT of Powhatan Creek		
MAINT AGREEMENT	Yes	EXT DET-WQ-CTRL	No	LAST INSP DATE	2/13/2001
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	0	INTERNAL RATING	2
		CHAN PROT CTRL	No	MISC/COMMENTS	
		CHAN PROT VOL acre-ft	0	NP below 4 inch low flow orifice.	
		SW/FLOOD CONTROL	Yes	Potential seepage along riser/barrel.	
		GEOTECH REPORT	No		

Get Last BMP No

Return to Menu





NEAR LOT 1
4492 POWATHAN CROSSING
Williamsburg, VA. 23185

POWATHAN CROSSING SEC 3/4
WET POND PC025

- Feb 13, 2001 Final Inspection SJT + CED.
- Feb 23, 2001 Issued letter to Powhatan Crossing, Inc. 17 Const.-Related items required to be performed prior to release of surety.
- July 26 Inspection by SJT + CED.
WSEL still ~ 2' below low flow ORIF
Met w/ Wayne Reed. Went over items on list.

259-0276

Hampton Jessie

3500 Hunter Ridge

• dissatisfied with BMP

• BACKS UP 1/3 of way into
BACK YARD.

Mon

5:00 PM

WED 9:00

GPIN 4621500016

3500 Hunters Ridge, WMBB 2318B

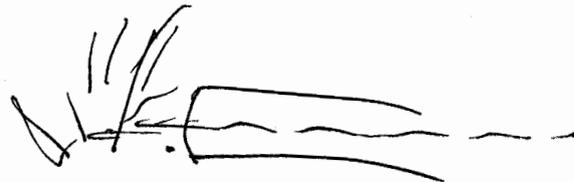
Jesse D. + Elva B Hampton

O.708 AC.

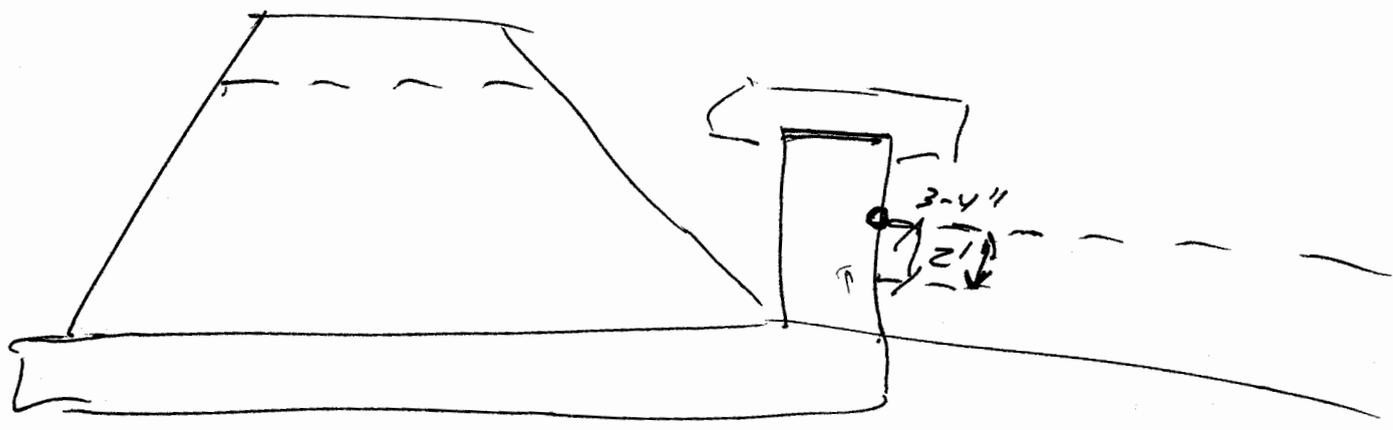
A-1 Zoned

LOT 16, Sec 3 POWHATAN CROSSING

✓ HighMark™



	<u>Position</u>	<u>AB</u>
ES	50.28	49.7
Riser Crest	49.60	49.19
WP	46	<u>44.60</u>



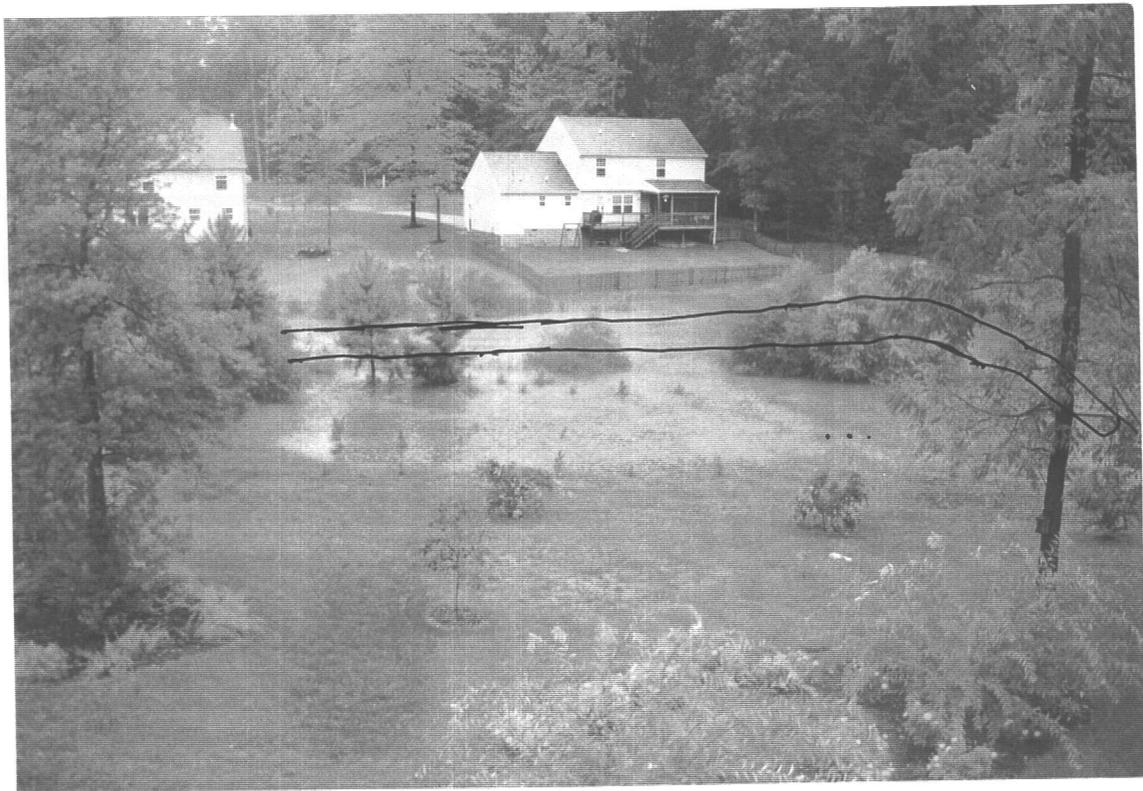
1 ORIGINAL	CERTIFICATE OF USE AND OCCUPANCY JAMES CITY COUNTY	4. TAX MAP NO. (46-3) (15-0-0015)
2 CHANGE IN USE		5. BUILDING PERMIT NO. 52-2467-B
3 TEMPORARY (See Special Conditions)		

This certificate is issued pursuant to the requirements of Section 117.0 of the Virginia Uniform Statewide Building Code and it certifies that at the date of issuance this structure as identified below is deemed to be in compliance with the applicable provisions of the Virginia Uniform Statewide Building Code as they apply to the following use and occupancy and (2) authorizes the use and occupancy as described below:

COPY

(The expiration date of a Temporary Certificate appears beside Special Conditions)

STRUCTURE	LOCATION	6. NUMBER AND STREET 3500 HUNTER'S RIDGE		LOCATION CHARACTERISTIC		YES	NO	
		7. CITY AND ZIP CODE WYTHEBURG 23188 2498		8. PRIMARY SERVICE AREA	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		8. PROJECT NAME POWHATAN CROSS		10. OVERLAY DISTRICT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	USE	12. PURPOSE FOR WHICH STRUCTURE MAY BE USED SINGLE FAMILY RESIDENCE		11. FLOODPLAIN		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
		13. ZONING DISTRICT 333						
		SPECIAL CONSIDERATION (PLACE CASE NUMBER IN BOXES)						
ACTION		YES	NO	ACTION		YES	NO	
14. SPECIAL USE PERMIT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. SITE PLAN		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. CONDITIONAL USE PERMIT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. VARIANCE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IMPROVEMENT DATA	18. USE GROUP CLASSIFICATION R4			19. TYPE OF CONSTRUCTION 5B				
	20. TYPE OF IMPROVEMENT DWELLING, NEW SINGLE FAMILY							
OWNER	21. NAME KAR-SAN DEVELOPMENT, LTD.							
	22. NUMBER AND STREET 4514 JOHN TYLER HWY							
	23. CITY AND STATE				24. ZIP CODE			
SPECIAL CONDITIONS	25. LIST DETAILS OF SPECIAL CONDITIONS SAME AS #6 "CASE"							
SIGNATURE	26. BUILDING OFFICIAL Bernard N. Farmer <i>en</i> <i>D</i>				27. DATE OF ISSUE 04/25/94			



Received from
Jesse Hampton
08/01/01

Personal Photos
Date Unknown

Powhatan
Crossing
Section 3

PB 57 P 95

DB 633 P 69

recorded 8/2/93

(S-103-89)
Powhatan Crossing Sec 3

Recent History Powhatan Crossing 3/4; S-15-94; PC 025

Meeting with HOA at Jesse Hampton's House 03/14/02

- March 12, 1996 Record Drawing by AES Consulting Engineers.
- February 13, 2001 Final Inspection of BMP performed by SJT in order to attempt to close out project (1994) at request of Beth Davis, Inspector. 7 main issues of importance to correct. Internal email to Beth Davis, Inspector.
- February 23, 2001 Letter to Developer from DEC. 7 items per SJT and Beth Davis inspection.
- August 1, 2001 Call and meeting with Jesse Hampton RE: questions about BMP.
- August 1, 2001 First Contact letter to Jesse Hampton.
- July 26, 2001 Reinspection. Meeting with Wayne Reed Waltrip. Work to begin to address 7 items.
- July 27th 2001 Email Jesse Hampton to Dev Mgmt John Horne.
- August 14th 2001 Reinspection. Contractor completion of items per February 23rd 2001 Env Div letter. Item 2, Item 5, Item 6 complete. Item 1, Item 3, Item 4, Item 7 plus seed & mulch at emergency spillway and 2 trees at barrel outfall not complete. Large seep collar.
- August 16, 2001 Call from Jesse Hampton. RE: draining of pond due to maintenance work. Response by SJT of work that is occurring.
- September 5, 2001 File Memo; no action performed to release bond until ENV DIV staff felt assured that normal pool can be held at low orifice elevation and seepage condition is not present. (RE: Continue to monitor WSEL.)

Since Sept 2001, Beth Davis and Scott Thomas have been monitoring level of pond.

March 14 2002 SJT meets with HOA.

WALTRIP COMPLETES WORK. RISER MODIFICATIONS
INCORPORATED. RISER CAP ANCHORED

10/22/03

FINAL INSPECTION SJT. ALL IS SATISFACTORY

o INTRO

Be Aware:

o PCWMP

o Funding Strategy

o County WAT Ed Int

o Inspection Program

Meeting
HOA Powhatan
Crossing
3-14-02

SJT
5 members of
HOA

- County - GIS website = Trouble in accessing

- Outflow pipe on Hidden Property

- DO MAINT PLAN

- Verbal contact @ Howard