



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.

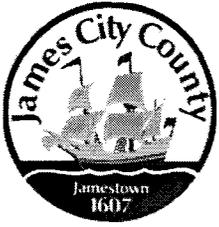
BMP NUMBER: PC194

DATE VERIFIED: January 27, 2017

QUALITY ASSURANCE TECHNICIAN: Natalie Prevette

A handwritten signature in cursive script that reads "nm Prevette".

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: PC194

PIN: 3824000015

Subdivision, Tract, Business or Owner

Name (if known):

New Town

Property Description:

Block 2 Parcel A New Town

Site Address:

5122 Main Street

(For internal use only)

Box 3

Drawer: 2

Agreements: (in file as of scan date) N

Book or Doc#:

Page:

Comments
Commercial Section

**James City County, Virginia
Environmental Division**

**Stormwater Management/BMP Record Drawing and Construction Certification Review
Tracking Form**

County Plan No.: SP-118-03 AMMND5 SP-25-03
 Project Name: NEW TOWN SEC 2, BLOCK 2 PARCEL A
 Stormwater Management Facility: BIORETENTION #2-2
 BMP Phase #: I II III

Information Package Received. Date/By: 12/8/04 AES
 Administrative Check.
 Record Drawing Date/By: 5/13/05 AES
 Construction Certification Date/By: 12/8/04 AES
 RD/CC Standard Forms (Required for all BMPs after Feb 1st 2001 Only)
 Insp/Maint Agreement #/Date: _____
 BMP Maintenance Plan Location: NO
 Other: _____

Standard E&SC Note on Approved Plan Requiring RD/CC or County comment in plan review file.
 Yes No Location: Note 20 sheet C13.

Assign County BMP ID Code #: Code: PC194

Preliminary Input/Log into Division's "As-Built Tracking Log"
 Add Location to GIS Database Map. Obtain site information (GPIN, Owner, Site Area, Address, etc.)
 Preliminary Log into Access BMP Database (BMP ID #, Plan No., GPIN, Project Name, etc.)
 Active Project File Review (correspondence, H&H, etc.)
 Initial As-Built File setup (Label, copy hydraulics, BMP plan and detail information, etc.)
 Inspector Check of RD/CC (forward to inspector using transmittal for cursory review).
 Pre-Inspection Drawing Review - Approved Plan (Quick look prior to Field Inspection).
 Final Inspection (FI) Performed Date: 02/09/05 SJT
 Record Drawing (RD) Review (***) Date: 06/22/05
 Construction Certification (CC) Review Date: 05/22/05

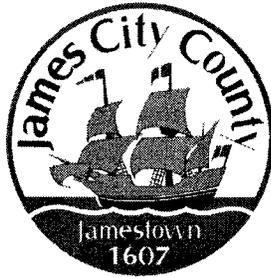
Actions:
 No comments.
 Comments. Letter Forwarded. Date: _____
 Record Drawing (RD)
 Construction Certification (CC)
 Construction-Related (CR)
 Site Issues (SI)
 Other : _____

Second Submission: _____
 Reinspection (if necessary): _____
 Acceptable for stormwater management facility purposes (RD/CC/CR/Other). Proceed with bond release.
 Notify Inspector and Inspector Supervisor using "Surety Request Form".
 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 log into computer.
 Request mylar/reproducible from As-Built plan preparer. 11/17/05 OK.
 Complete "As-built Tracking Log"
 Last check of BMP Access Database.
 Add to JCC Hydrology & Hydraulic database (optional).
 Add to PRIDE BMP ratings/database.

Final Sign-Off

Plan Reviewer: [Signature] Date: 06/23/05

*** See separate checklist, if needed.



PL 194
2-2

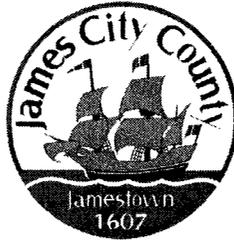
James City County, Virginia
Environmental Division

**Stormwater Management / BMP Facilities
Record Drawing and Construction Certification**

Standard Forms & Instructions

<u>Contents</u>	Page
Record Drawing and Construction Certification Forms	
Section 1 – Site Information	1
Section 2 – Construction Information	2
Section 3 – Owner / Designer / Contractor Information	2
Section 4 – Professional Certifications	3
Section 5 – Certification Requirements and Instructions	4
Record Drawing Checklist	
I. Methods and Presentation (Required for All Facilities)	6
II. Minimum Standards (Required for All Facilities)	6
III. Group A – Wet Ponds	8
IV. Group B – Wetlands	9
V. Group C – Infiltration Practices	10
VI. Group D – Filtering Systems	11
VII. Group E – Open Channel Systems	12
VIII. Group F – Extended Dry Detention	13
IX. Group G – Open Spaces	14
X. Storm Drainage Systems (Associated with BMP's Only)	15
XII. Other Systems	15
XIII. References	16

*Issue Date
February 1, 2001*



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: New Town
Structure/BMP Name: Bioretention cell #2-2 JCC ID CODE # PC-194
Project Location: New Town Block 2
BMP Location: _____
County Plan No.: SP - 118 - 03

Project Type: Residential Business Tax Map/Parcel No.: _____
 Commercial Office BMP ID Code (if known): PC194
 Institutional Industrial Zoning District: _____
 Public Roadway Land Use: _____
 Other Mixed Use Site Area (sf or acres): _____

Brief Description of Stormwater Management/BMP Facility: #2-2 is a bioretention area

Nearest Visible Landmark to SWM/BMP Facility: William E. Wood Buildings

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: May 2004
Facility Monitored by County Representative during Construction: Yes No Unknown
Name of Site Work Contractor Who Constructed Facility: Branscome Inc.
Name of Professional Firm Who Routinely Monitored Construction: AES Consulting Engineers
Date of Completion for SWM/BMP Facility: June 2004
Date of Record Drawing/Construction Certification Submittal: 12/6/04

(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.)*

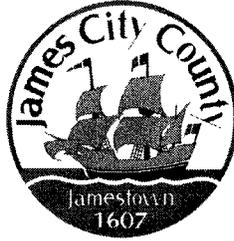
Name: New Town Associates, L.L.C.
Mailing Address: 4801 Courthouse St., Suite 329
Business Phone: (757) 565-6200 Fax: (757) 565-6291
Contact Person: John McCann Title: _____

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: AES Consulting Engineers
Mailing Address: 5248 Olde Towne Rd., Suite 1
Business Phone: (757) 253-0040
Fax: (757) 220-8994
Responsible Plan Preparer: Robert Cosby III, P.E.
Title: Project Manager
Plan Name: New Town - Block 2
Firm's Project No. 6632-E-31-1
Plan Date: 11/7/03
Sheet No.'s Applicable to SWM/BMP Facility: 5 / 12 / _____ / _____ / _____

BMP Contractor: *(Note: Site Work Contractor directly responsible for construction of the Stormwater Management / BMP facility.)*

Name: Branscome Inc.
Mailing Address: _____
Business Phone: _____
Fax: _____
Contact Person: Danny Johnson
Site Foreman/Supervisor: _____
Specialty Subcontractors & Purpose (for BMP Construction Only):



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.)

SEC 2 BLOCK 2 PARCELA

Section 1 – Site Information:

Project Name: New Town
Structure/BMP Name: Bioretention cell #2-1 & #2-2
Project Location: New Town Block 2, SEC 2, PARCEL
BMP Location: WILLIAM E. WOOD BUILDING
County Plan No.: SP - 118 - 03 (SP-25-03)

Project Type: Residential Business Tax Map/Parcel No.: _____
 Commercial Office BMP ID Code (if known): PC 193 + PC 194
 Institutional Industrial Zoning District: _____
 Public Roadway Land Use: _____
 Other Mixed Use Site Area (sf or acres): _____

Brief Description of Stormwater Management/BMP Facility: #2-1 is a bioretention area and #2-2 is a bioretention area with a low profile timber wall

Nearest Visible Landmark to SWM/BMP Facility: 1st Advantage Credit Union and William E. Wood Buildings

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: May 2004
Facility Monitored by County Representative during Construction: Yes No Unknown
Name of Site Work Contractor Who Constructed Facility: Branscome Inc.
Name of Professional Firm Who Routinely Monitored Construction: AES Consulting Engineers
Date of Completion for SWM/BMP Facility: June 2004
Date of Record Drawing/Construction Certification Submittal: 12/6/04

(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: New Town Associates, L.L.C.
Mailing Address: 4801 Courthouse St., Suite 329
Business Phone: (757) 565-6200 Fax: (757) 565-6291
Contact Person: John McCann Title: _____

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: AES Consulting Engineers
Mailing Address: 5248 Olde Towne Rd., Suite 1
Business Phone: (757) 253-0040
Fax: (757) 220-8994
Responsible Plan Preparer: Robert Cosby III, P.E.
Title: Project Manager
Plan Name: New Town - Block 2
Firm's Project No. 6632-E-31-1
Plan Date: 11/7/03
Sheet No.'s Applicable to SWM/BMP Facility: 5 / 12 / _____ / _____ / _____

BMP Contractor: *(Note: Site Work Contractor directly responsible for construction of the Stormwater Management / BMP facility.)*
Name: Branscome Inc.
Mailing Address: _____
Business Phone: _____
Fax: _____
Contact Person: Danny Johnson
Site Foreman/Supervisor: _____
Specialty Subcontractors & Purpose (for BMP Construction Only):

Section 4 – Professional Certifications:

Certifying Professionals: *(Note: A Registered Professional Engineer of 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: _____
Mailing Address: _____

Business Phone: _____
Fax: _____
Name: _____
Title: _____
Signature: _____
Date: _____

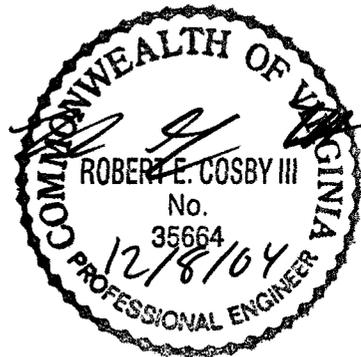
I hereby certify to the best of my knowledge and belief that this record drawing represents the actual condition of the Stormwater Management / BMP facility. The facility appears to conform with the provisions of the approved design plan, specifications and stormwater management plan, except as specifically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

Construction Certification

Firm Name: AES Consulting Engineers
Mailing Address: 5248 Olde Towne Rd., Suite 1

Business Phone: (757) 253-0040
Fax: (757) 220-8994
Name: Robert Cosby III, P.E.
Title: Project Manager
Signature: *Robert Cosby III*
Date: 12/8/04

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.



(Seal)

Virginia Registered Professional Engineer
Or Certified Land Surveyor

(Seal)

Virginia Registered
Professional Engineer

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.)*

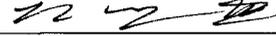
Record Drawing and Construction Certifications for Stormwater Management / BMP Facilities

Record Drawing Certification

Firm Name: AES Consulting Engineers
Mailing Address: 5248 Olde Towne Rd., Suite 1

Business Phone: (757) 253-0040
Fax: (757) 220-8994

Name: Robert Cosby III, P.E.
Title: Project Manager

Signature: 
Date: 5/13/05

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

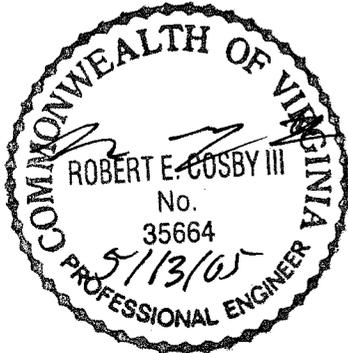
Firm Name: AES Consulting Engineers
Mailing Address: 5248 Olde Towne Rd., Suite 1

Business Phone: (757) 253-0040
Fax: (757) 220-8994

Name: Robert Cosby III, P.E.
Title: Project Manager

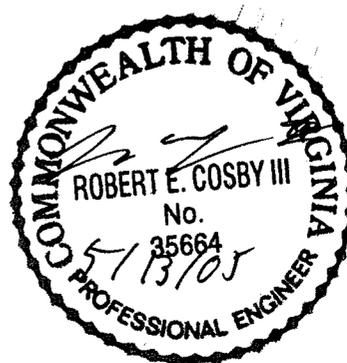
Signature: 
Date: 5/13/05

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.



(Seal)

Virginia Registered Professional Engineer
Or Certified Land Surveyor



(Seal)

Virginia Registered
Professional Engineer

SECTION 4

VILLAGE GREEN

LEVARD

SECTION 2

PECAN SQUARE

BLOCK 5
PARCEL A

PARCEL C
(CORNER
POCKET)

PARCEL B
(SUNTRUST)

BLOCK 2
PARCEL A

PARCEL B
(W.E. WOOD)

BMP#1
JCC BMP I.D. CODE
PC 173

PC194
#2-2

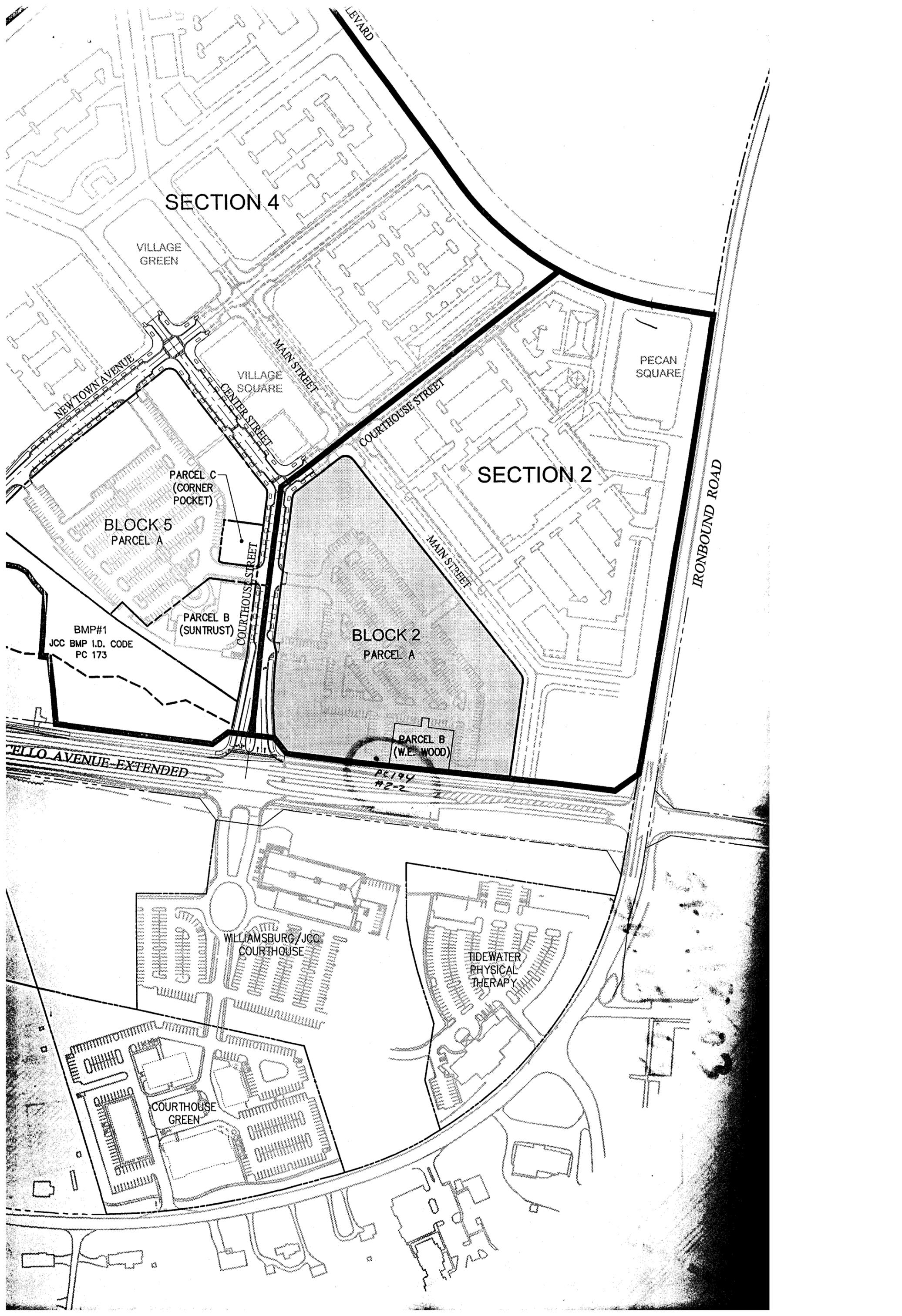
IRONBOUND ROAD

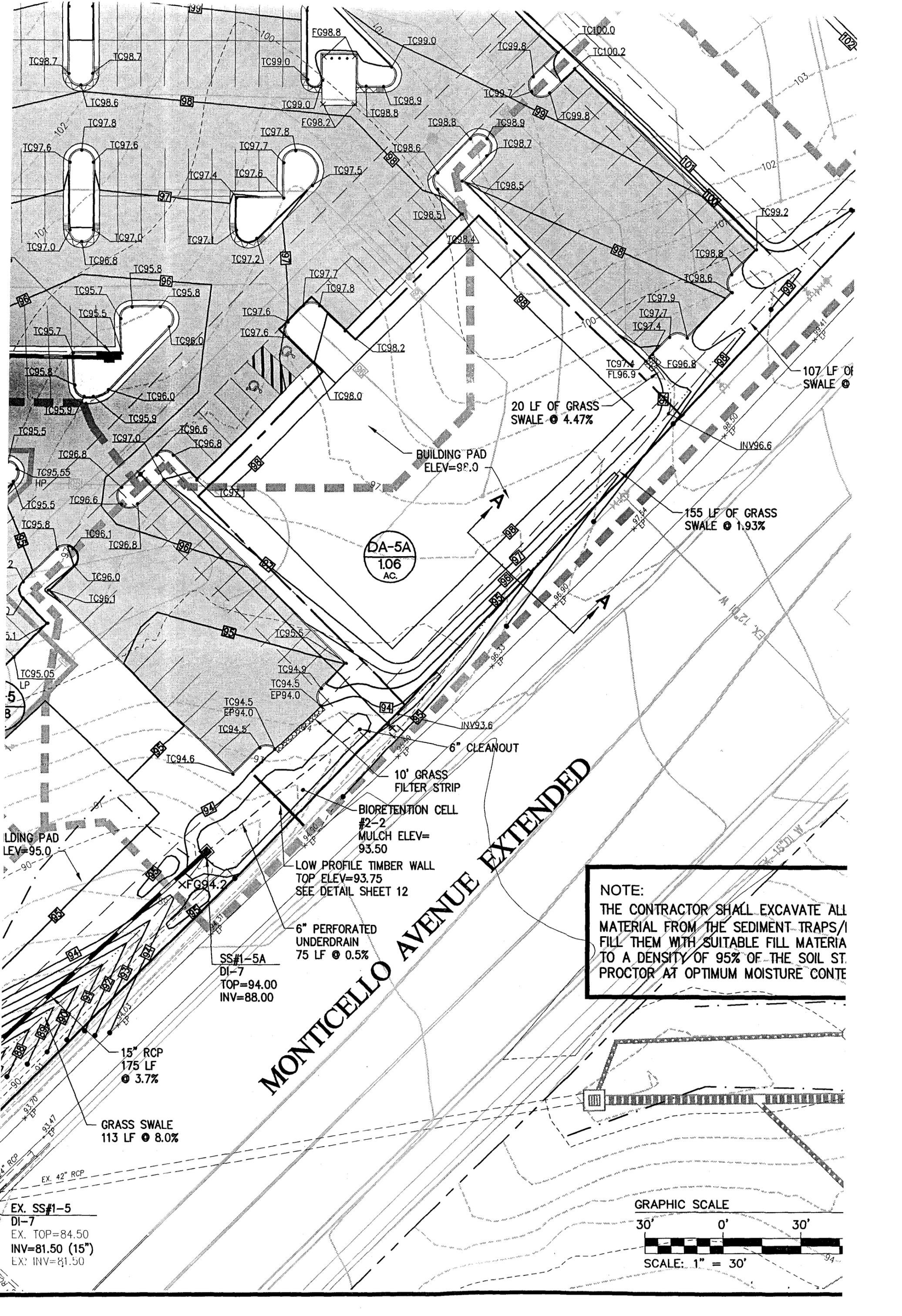
CELLO AVENUE-EXTENDED

WILLIAMSBURG/JCC
COURTHOUSE

TIDEWATER
PHYSICAL
THERAPY

COURTHOUSE
GREEN





DA-5A
106
AC.

20 LF OF GRASS SWALE @ 4.47%

155 LF OF GRASS SWALE @ 1.93%

BUILDING PAD
ELEV=99.0

BUILDING PAD
LEV=95.0

6" CLEANOUT

10' GRASS FILTER STRIP

BIORETENTION CELL
#2-2
MULCH ELEV=93.50

LOW PROFILE TIMBER WALL
TOP ELEV=93.75
SEE DETAIL SHEET 12

6" PERFORATED UNDERDRAIN
75 LF @ 0.5%

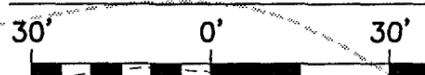
SS#1-5A
DI-7
TOP=94.00
INV=88.00

15" RCP
175 LF
@ 3.7%

GRASS SWALE
113 LF @ 8.0%

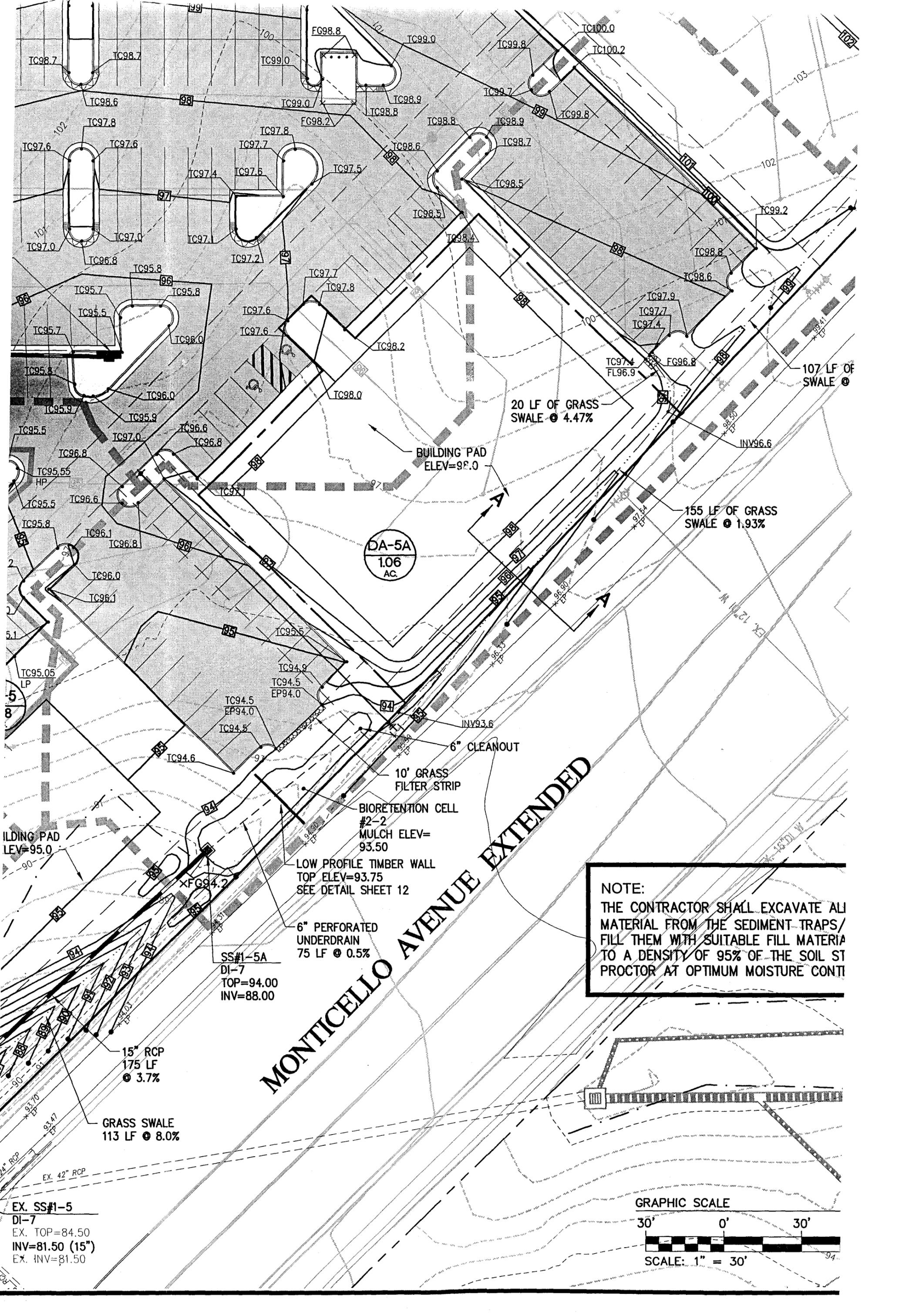
NOTE:
THE CONTRACTOR SHALL EXCAVATE ALL MATERIAL FROM THE SEDIMENT TRAPS/ FILL THEM WITH SUITABLE FILL MATERIAL TO A DENSITY OF 95% OF THE SOIL ST. PROCTOR AT OPTIMUM MOISTURE CONTE

GRAPHIC SCALE

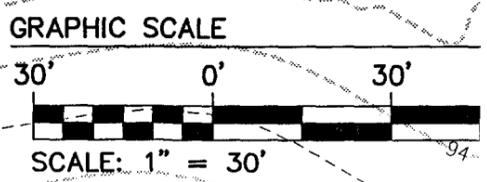


SCALE: 1" = 30'

EX. SS#1-5
DI-7
EX. TOP=84.50
INV=81.50 (15")
EX. INV=81.50



NOTE:
 THE CONTRACTOR SHALL EXCAVATE ALL MATERIAL FROM THE SEDIMENT TRAPS/FILL THEM WITH SUITABLE FILL MATERIAL TO A DENSITY OF 95% OF THE SOIL ST PROCTOR AT OPTIMUM MOISTURE CONTI



MONTICELLO AVENUE EXTENDED

EX. SS#1-5
 DI-7
 EX. TOP=84.50
 INV=81.50 (15")
 EX. INV=81.50

SS#1-5A
 DI-7
 TOP=94.00
 INV=88.00

15" RCP
 175 LF
 @ 3.7%

GRASS SWALE
 113 LF @ 8.0%

6" PERFORATED UNDERDRAIN
 75 LF @ 0.5%

LOW PROFILE TIMBER WALL
 TOP ELEV=93.75
 SEE DETAIL SHEET 12

BIORETENTION CELL #2-2
 MULCH ELEV=93.50

10' GRASS FILTER STRIP

6" CLEANOUT

20 LF OF GRASS SWALE @ 4.47%

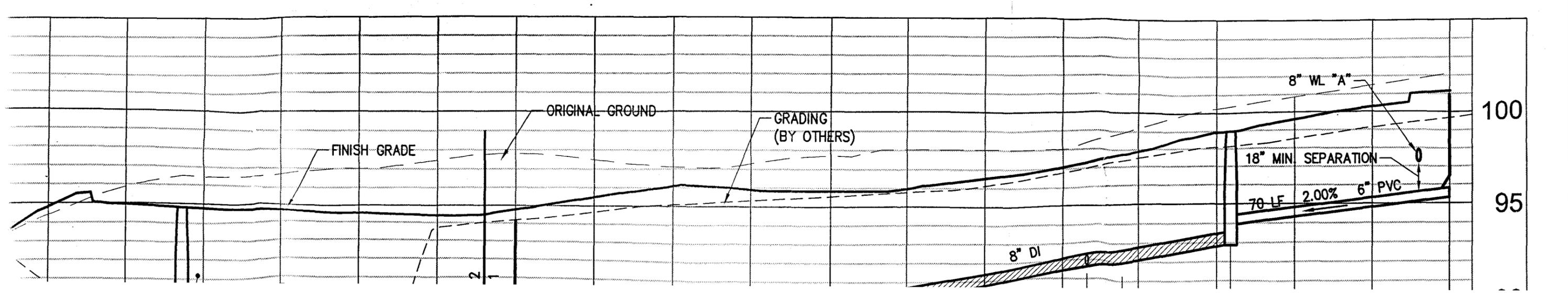
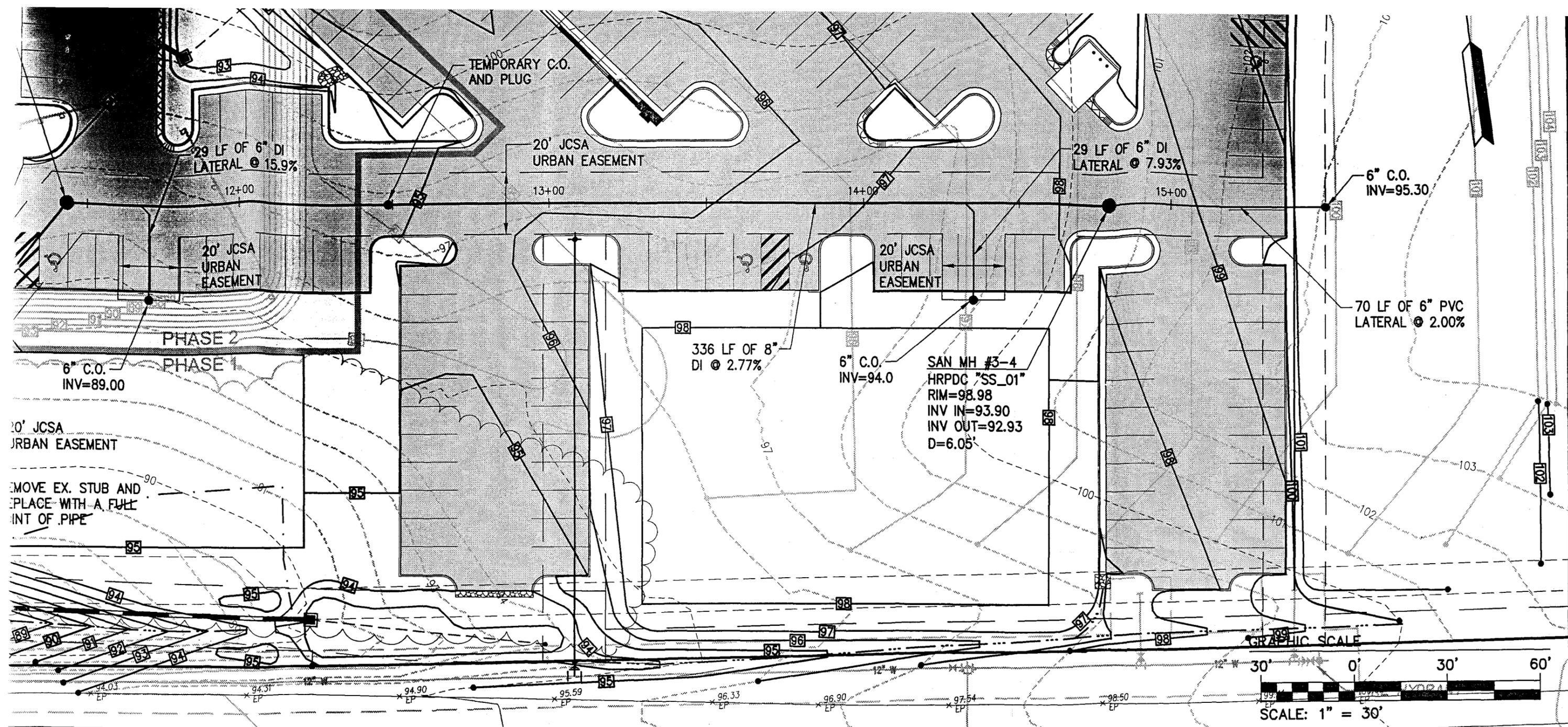
155 LF OF GRASS SWALE @ 1.93%

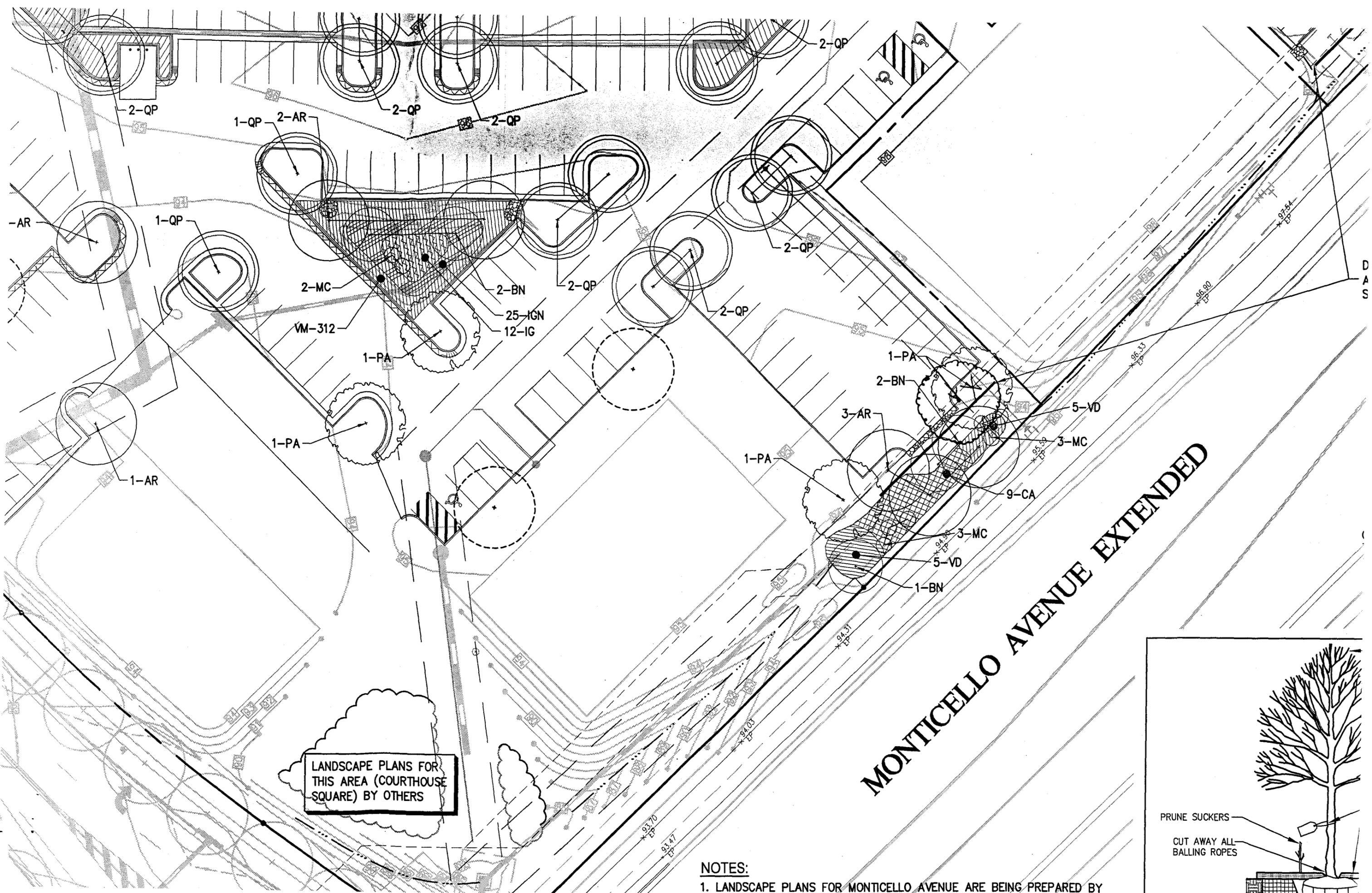
107 LF OF SWALE @

DA-5A
 1.06 AC

BUILDING PAD
 ELEV=99.0

BUILDING PAD
 LEV=95.0



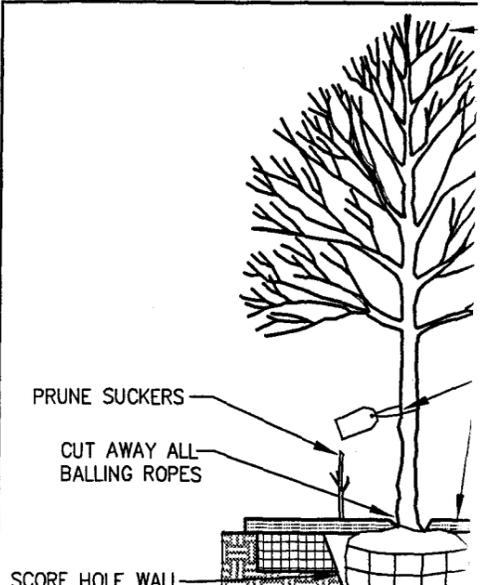


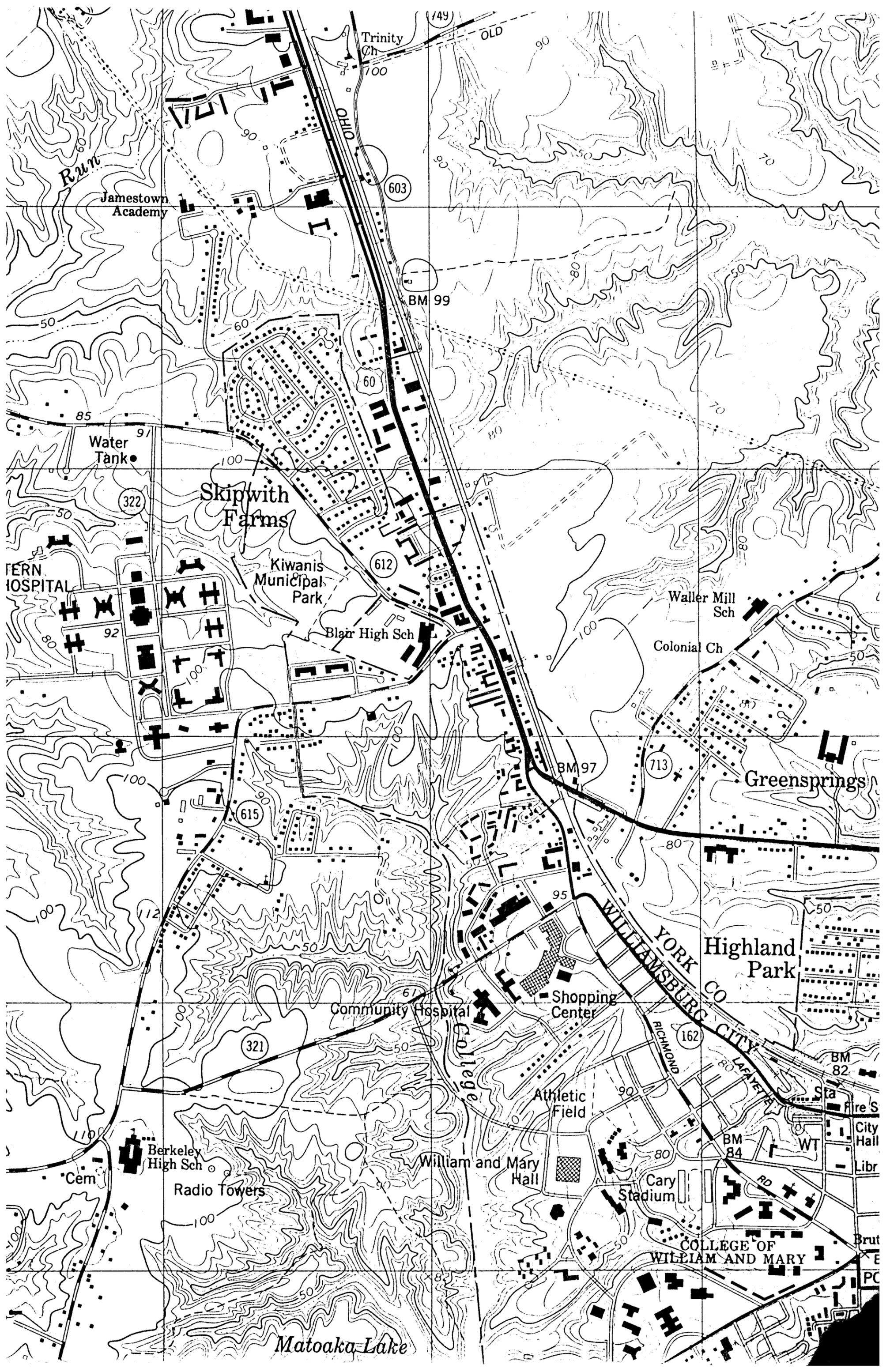
LANDSCAPE PLANS FOR THIS AREA (COURTHOUSE SQUARE) BY OTHERS

MONTICELLO AVENUE EXTENDED

NOTES:

1. LANDSCAPE PLANS FOR MONTICELLO AVENUE ARE BEING PREPARED BY [unreadable] ENGINEERS. THESE PLANS ARE SUBJECT TO DPR AND [unreadable]





DRAINAGE CALCULATIONS

FOR

**NEW TOWN
BLOCK 2**

SITE:

James City County

SUBMITTED TO:

Environmental Division
James City County

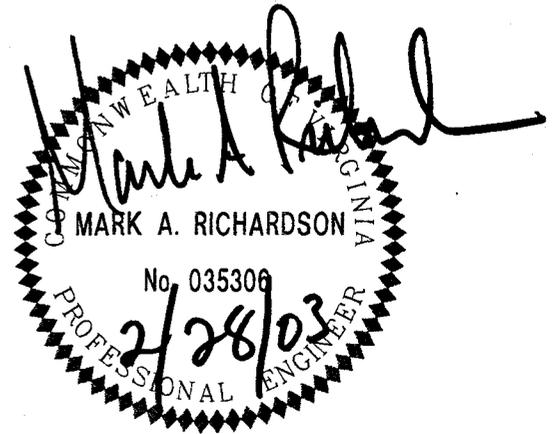
Need see Comps.

5-25-03

Prepared By:

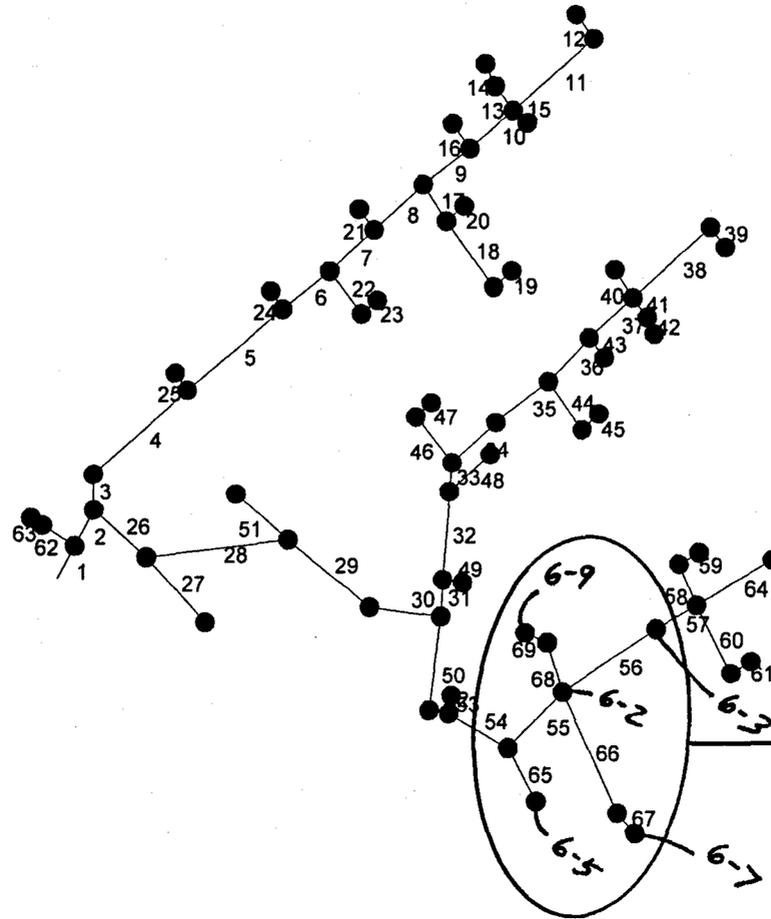
AES Consulting Engineers
5248 Olde Towne Road, Suite 1
Williamsburg, Virginia 23188

February 28, 2003
AES Project No. 6632E131



Hydraflow Plan View

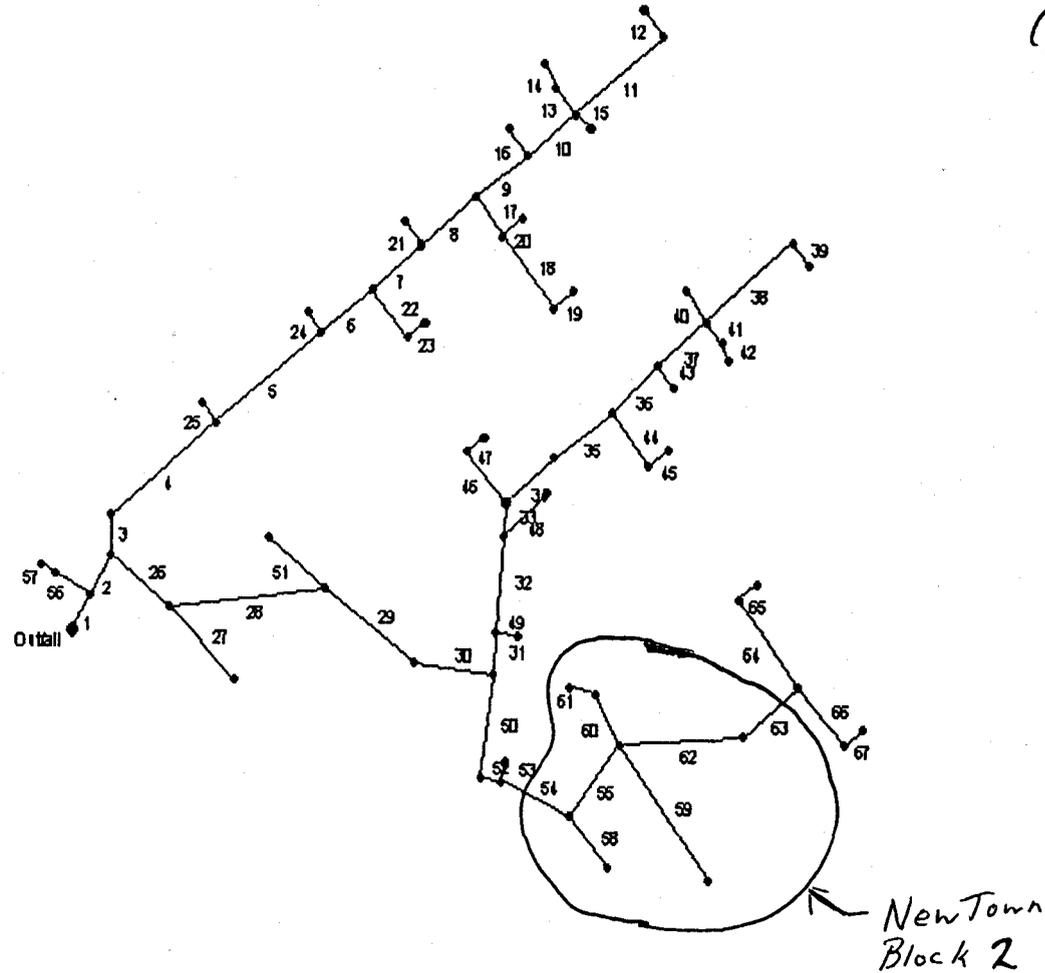
SYSTEM # 2



NEWTOWN, BLOCK 2
MODIFICATIONS

Hydraflow Plan View

STORM SYSTEM
REVISED PER BLOCK 2
AMENDMENT #1
SP-118-03
(MAY APPROVED SP-25-03)



Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
1	End	61.0	0.00	40.70	0.00	0.00	31.02	0.0	10.0	6.0	184.9	650.1	9.42	60	6.23	68.80	65.00	79.21	78.90	77.00	82.76	#2-1A TO #2-1
2	1	68.0	0.00	40.23	0.00	0.00	30.64	0.0	9.9	6.0	183.5	565.0	9.35	60	4.71	72.00	68.80	80.92	80.59	84.50	77.00	#2-2 TO #2-1A
3	2	59.0	0.37	9.14	0.65	0.24	6.95	5.0	9.4	6.1	42.27	182.1	5.98	36	7.46	76.40	72.00	82.52	82.28	83.80	84.50	#2-20 TO #2-2
4	3	220.0	0.34	8.77	0.65	0.22	6.71	5.0	9.0	6.2	41.45	67.73	8.44	30	2.73	82.40	76.40	86.53	82.94	89.89	83.80	#2-21 TO #2-20
5	4	219.0	0.12	8.25	0.65	0.08	6.36	5.0	8.5	6.3	39.88	60.08	8.57	30	2.15	87.10	82.40	91.45	86.53	96.70	89.89	#2-22 TO #2-21
6	5	105.0	0.00	8.04	0.00	0.00	6.21	0.0	8.3	6.3	39.30	41.98	8.01	30	1.05	88.20	87.10	92.41	91.45	98.76	96.70	#2-23 TO #2-22
7	6	105.0	0.13	6.93	0.65	0.08	5.44	5.0	8.0	6.4	34.68	41.98	7.07	30	1.05	89.30	88.20	94.16	93.41	99.65	98.76	#2-24 TO #2-23
8	7	116.0	0.00	6.71	0.00	0.00	5.29	0.0	7.7	6.4	34.07	41.71	6.94	30	1.03	90.50	89.30	95.74	94.94	99.93	99.65	FUTURE
9	8	104.0	0.11	4.57	0.70	0.08	3.73	5.0	7.4	6.5	24.33	49.25	4.96	30	1.44	92.00	90.50	96.85	96.49	101.23	99.93	FUTURE
10	9	98.0	0.17	4.33	0.80	0.14	3.57	5.0	7.0	6.6	23.55	41.43	4.80	30	1.02	93.00	92.00	97.56	97.23	103.15	101.23	FUTURE
11	10	188.0	0.18	0.47	0.80	0.14	0.35	5.0	5.5	7.0	2.43	12.10	2.97	15	3.51	99.60	93.00	100.55	97.92	106.92	103.15	FUTURE
12	11	52.0	0.29	0.29	0.70	0.20	0.20	5.0	5.0	7.1	1.45	3.12	2.40	12	0.77	100.00	99.60	100.65	100.55	106.92	106.92	FUTURE
13	10	51.0	0.16	1.41	0.75	0.12	1.17	5.0	5.2	7.1	8.29	9.30	4.69	18	0.78	93.40	93.00	98.23	97.92	103.15	103.15	FUTURE
14	13	40.0	1.25	1.25	0.84	1.05	1.05	5.0	5.0	7.1	7.48	10.50	4.23	18	1.00	93.80	93.40	98.59	98.39	100.00	103.15	FUTURE
15	10	33.0	2.28	2.28	0.84	1.92	1.92	5.0	5.0	7.1	13.65	24.90	4.34	24	1.21	93.40	93.00	98.04	97.92	100.00	103.15	FUTURE
16	9	51.0	0.13	0.13	0.65	0.08	0.08	5.0	5.0	7.1	0.60	3.15	0.77	12	0.78	94.20	93.80	97.25	97.23	101.23	101.23	FUTURE
17	8	73.0	0.51	2.14	0.75	0.38	1.56	5.0	5.8	6.9	10.79	23.68	3.43	24	1.10	91.30	90.50	96.65	96.49	99.45	99.93	FUTURE
18	17	136.0	0.49	1.03	0.65	0.32	0.70	5.0	5.2	7.1	4.92	6.55	4.01	15	1.03	92.70	91.30	97.63	96.84	100.12	99.45	FUTURE
19	18	41.0	0.54	0.54	0.70	0.38	0.38	5.0	5.0	7.1	2.69	3.52	3.43	12	0.98	93.10	92.70	98.11	97.88	100.12	100.12	FUTURE
20	17	41.0	0.60	0.60	0.80	0.48	0.48	5.0	5.0	7.1	3.42	5.83	4.36	12	2.68	92.40	91.30	97.21	96.84	99.45	99.45	FUTURE
21	7	43.0	0.09	0.09	0.70	0.06	0.06	5.0	5.0	7.1	0.45	3.64	0.57	12	1.05	92.55	92.10	94.94	94.94	99.50	99.65	#2-24A TO #2-24

Project File: 6632e131opt2.stm

Number of lines: 67

Run Date: 09-03-2003

Intensity = 143.72 / (Inlet time + 19.20) ^ 0.94; Return period = 10 Yrs.

Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (In/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
22	6	90.0	0.54	1.11	0.65	0.35	0.78	5.0	5.2	7.1	5.51	7.46	4.49	15	1.33	90.30	89.10	94.06	93.41	97.75	98.76	#2-23A TO #2-23
23	22	36.0	0.57	0.57	0.75	0.43	0.43	5.0	5.0	7.1	3.05	3.75	3.88	12	1.11	90.70	90.30	94.64	94.38	97.75	97.75	#2-23B TO #2-23
24	5	36.0	0.09	0.09	0.70	0.06	0.06	5.0	5.0	7.1	0.45	3.75	0.57	12	1.11	89.60	89.20	91.45	91.45	96.70	96.70	#2-22A TO #2-22
25	4	36.0	0.18	0.18	0.75	0.14	0.14	5.0	5.0	7.1	0.96	3.75	1.22	12	1.11	82.80	82.40	86.56	86.53	89.89	89.89	#2-21A TO #2-21
26	2	123.0	3.48	31.09	0.84	2.92	23.69	5.0	9.6	6.0	143.1	250.8	9.00	54	1.63	74.00	72.00	82.93	82.28	82.00	84.50	#2-3 TO #2-2
27	26	150.0	0.59	0.59	0.84	0.50	0.50	5.0	5.0	7.1	3.53	9.13	2.88	15	2.00	77.00	74.00	84.33	83.88	85.80	82.00	#2-4 TO #2-3
28	26	258.0	0.29	27.02	0.84	0.24	20.27	5.0	9.0	6.2	125.0	229.1	7.86	54	1.36	77.50	74.00	84.92	83.88	91.00	82.00	#2-5 TO #2-3
29	28	183.0	0.14	26.16	0.84	0.12	19.55	5.0	8.6	6.3	122.4	195.0	7.70	54	0.98	79.30	77.50	86.59	85.88	94.30	91.00	#2-6 TO #2-5
30	29	131.0	0.00	26.02	0.00	0.00	19.43	0.0	8.2	6.3	123.0	195.9	7.73	54	0.99	80.60	79.30	87.52	87.01	95.04	94.30	#2-7 TO #2-6
31	30	59.0	0.27	7.74	0.65	0.18	5.93	5.0	8.1	6.4	37.72	41.36	8.18	30	1.02	86.60	86.00	90.66	88.45	96.37	95.04	#2-8 TO #2-7
32	31	145.0	0.00	7.09	0.00	0.00	5.49	0.0	7.7	6.4	35.35	41.71	7.20	30	1.03	88.10	86.60	91.74	90.66	98.54	96.37	#2-9 TO #2-8
33	32	48.0	0.00	6.83	0.00	0.00	5.32	0.0	7.6	6.5	34.41	41.86	7.01	30	1.04	88.60	88.10	92.68	92.34	98.55	98.54	#2-10 TO #2-9
34	33	104.0	0.12	5.96	0.70	0.08	4.70	5.0	7.3	6.5	30.73	40.22	6.26	30	0.96	89.60	88.60	93.84	93.25	100.07	98.55	#2-11 TO #2-10
35	34	116.0	0.00	5.84	0.00	0.00	4.62	0.0	7.0	6.6	30.53	41.71	6.22	30	1.03	90.80	89.60	94.57	93.93	101.03	100.07	FUTURE
36	35	104.0	0.13	5.12	0.65	0.08	4.14	5.0	6.7	6.7	27.64	42.18	5.63	30	1.06	91.90	90.80	95.65	95.17	102.27	101.03	FUTURE
37	36	103.0	0.14	4.87	0.80	0.11	3.97	5.0	6.4	6.8	26.82	42.38	5.46	30	1.07	93.00	91.90	96.58	96.14	104.11	102.27	FUTURE
38	37	183.0	0.27	0.68	0.70	0.19	0.48	5.0	5.3	7.1	3.36	12.99	3.61	15	4.04	100.40	93.00	101.58	97.04	107.80	104.11	FUTURE
39	38	42.0	0.41	0.41	0.70	0.29	0.29	5.0	5.0	7.1	2.05	3.48	2.68	12	0.95	100.80	100.40	101.70	101.58	107.80	107.80	FUTURE
40	37	56.0	1.62	1.62	0.84	1.36	1.36	5.0	5.0	7.1	9.70	23.41	3.09	24	1.07	93.60	93.00	97.15	97.04	100.00	104.11	FUTURE
41	37	41.0	0.26	2.43	0.75	0.20	2.02	5.0	5.1	7.1	14.31	22.34	4.56	24	0.98	95.00	94.60	97.21	97.04	104.11	104.11	FUTURE
42	41	29.0	2.17	2.17	0.84	1.82	1.82	5.0	5.0	7.1	12.99	23.00	4.13	24	1.03	95.30	95.00	97.45	97.35	100.00	104.11	FUTURE

Project File: 6632e131opt2.stm

Number of lines: 67

Run Date: 09-03-2003

Intensity = 143.72 / (Inlet time + 19.20) ^ 0.94; Return period = 10 Yrs.

Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (I) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (In)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
43	36	42.0	0.12	0.12	0.70	0.08	0.08	5.0	5.0	7.1	0.60	3.48	0.80	12	0.95	95.30	94.90	96.15	96.14	102.27	102.27	FUTURE
44	35	100.0	0.34	0.72	0.70	0.24	0.49	5.0	5.3	7.0	3.42	6.46	2.78	15	1.00	93.00	92.00	95.45	95.17	100.44	101.03	FUTURE
45	44	41.0	0.38	0.38	0.65	0.25	0.25	5.0	5.0	7.1	1.76	3.52	2.24	12	0.98	93.40	93.00	95.67	95.57	100.44	100.44	FUTURE
46	33	101.0	0.36	0.87	0.65	0.23	0.62	5.0	5.2	7.1	4.36	6.43	3.56	15	0.99	90.60	89.60	93.71	93.25	97.75	98.55	#2-10A TO #2-10
47	46	36.0	0.51	0.51	0.75	0.38	0.38	5.0	5.0	7.1	2.73	3.75	3.47	12	1.11	91.00	90.60	94.12	93.91	97.75	97.75	#2-10B TO #2-10
48	32	96.0	0.26	0.26	0.65	0.17	0.17	5.0	5.0	7.1	1.20	6.59	2.52	15	1.04	92.70	91.70	93.32	92.34	99.68	98.54	#2-9A TO #2-9
49	31	36.0	0.38	0.38	0.70	0.27	0.27	5.0	5.0	7.1	1.90	3.75	2.41	12	1.11	89.40	89.00	90.76	90.66	96.37	96.37	#2-8A TO #2-8
50	30	155.0	0.35	18.28	0.65	0.23	13.50	5.0	7.5	6.5	87.81	193.5	5.52	54	0.97	82.10	80.60	88.76	88.45	92.73	95.04	#2-7A TO #2-7
51	28	120.0	0.57	0.57	0.84	0.48	0.48	5.0	5.0	7.1	3.41	8.34	2.81	15	1.67	85.00	83.00	86.19	85.88	90.40	91.00	#2-5A TO #2-5
52	50	36.0	0.00	17.93	0.00	0.00	13.27	0.0	7.4	6.5	86.62	151.4	6.89	48	1.11	82.50	82.10	89.36	89.23	92.45	92.73	#2-7B TO #2-7A
53	52	29.0	0.32	0.32	0.75	0.24	0.24	5.0	5.0	7.1	1.71	7.54	2.18	12	4.48	86.30	85.00	90.17	90.10	93.10	92.45	#2-7BB TO #2-7
54	52	124.0	0.57	17.61	0.84	0.48	13.03	5.0	7.0	6.6	86.06	143.1	6.85	48	0.99	83.73	82.50	90.55	90.10	92.80	92.45	#6-1 TO #2-7B
55	54	132.0	1.05	16.40	0.84	0.88	12.07	5.0	6.8	6.7	80.53	154.9	8.37	42	2.37	86.86	83.73	92.12	91.28	95.50	92.80	#6-2 TO #6-1
56	1	67.0	0.13	0.47	0.80	0.10	0.38	5.0	5.2	7.1	2.66	20.42	2.17	15	10.00	75.50	68.80	80.70	80.59	82.76	77.00	#2-1B TO #2-1A
57	56	24.0	0.34	0.34	0.80	0.27	0.27	5.0	5.0	7.1	1.94	3.98	2.47	12	1.25	75.80	75.50	80.78	80.71	82.76	82.76	#2-1C TO #2-1B
58	54	100.0	0.64	0.64	0.75	0.48	0.48	5.0	5.0	7.1	3.42	15.51	2.79	15	5.77	89.50	83.73	91.56	91.28	93.00	92.80	#6-5 TO #6-1
59	55	249.0	1.68	1.68	0.84	1.41	1.41	5.0	5.0	7.1	10.06	14.85	5.69	18	2.00	91.84	86.86	95.49	93.21	95.50	95.50	#6-6 TO #6-2
60	55	86.0	0.26	1.10	0.84	0.22	0.85	5.0	5.2	7.1	6.00	7.91	4.89	15	1.50	88.15	86.86	93.95	93.21	95.50	95.50	#6-8 TO #6-2
61	60	43.0	0.84	0.84	0.75	0.63	0.63	5.0	5.0	7.1	4.49	7.94	3.66	15	1.51	88.80	88.15	94.44	94.23	95.00	95.50	#6-9 TO #6-8
62	55	205.0	1.05	12.57	0.00	0.00	8.93	5.0	6.3	6.8	60.48	96.82	8.56	36	2.11	91.18	86.86	95.64	93.21	100.50	95.50	#6-3 TO #6-2
63	62	116.0	6.92	11.52	0.84	5.81	8.93	5.0	6.1	6.8	60.99	94.32	8.63	36	2.00	93.50	91.18	98.01	95.64	99.50	100.50	#6-4 TO #6-3

Project File: 6632e131opt2.stm

Number of lines: 67

Run Date: 09-03-2003

Intensity = 143.72 / (Inlet time + 19.20) ^ 0.94; Return period = 10 Yrs.

Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (ln/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (In)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
64	63	161.0	0.38	0.74	0.65	0.25	0.54	5.0	5.2	7.1	3.78	6.64	3.08	15	1.06	95.20	93.50	98.56	98.01	100.59	99.50	FUTURE
65	64	38.0	0.36	0.36	0.80	0.29	0.29	5.0	5.0	7.1	2.05	3.65	2.61	12	1.05	95.60	95.20	98.83	98.71	100.59	100.59	FUTURE
66	63	115.0	3.13	3.86	0.65	2.03	2.58	5.0	5.2	7.1	18.26	23.10	5.81	24	1.04	94.70	93.50	98.76	98.01	100.59	99.50	FUTURE
67	66	38.0	0.73	0.73	0.75	0.55	0.55	5.0	5.0	7.1	3.90	6.63	3.18	15	1.05	95.10	94.70	99.42	99.29	100.59	100.59	FUTURE

Project File: 6632e131opt2.stm

Number of lines: 67

Run Date: 09-03-2003

Intensity = 143.72 / (Inlet time + 19.20) ^ 0.94; Return period = 10 Yrs.

AES CONSULTING ENGINEERS
Engineering, Surveying, and Planning
 5248 Olde Towne Road, Suite 1
 WILLIAMSBURG, VIRGINIA 23188

LETTER OF TRANSMITTAL

Phone: (757) 253-0040
Fax: (757) 220-8994

ATTN: **Scott Thomas**

CO.: **James City County**

Address: **Environmental Division**

cc:

DATE 5/13/05	JOB NO. 6632-E-13-1
FROM: Victoria Bains	
RE New Town - Block 2 JCC-SP-118-03 BMP Certification	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- Attached
 Under separate cover via
 Original(s) Print(s) Plan(s) Specification(s) Change Order
 Copy of letter(s) Other:

COPIES	DATE	No. of Pages	DESCRIPTION
1		3	BMP Certification for BioFiltration 2-1 <i>pc 113</i>
1		1	Record Drawing for BioFiltration 2-1 <i>pc 113</i>
1		3	BMP Certification for BioFiltration 2-2 <i>pc 114</i>
1		1	Record Drawing for BioFiltration 2-2 <i>pc 114</i>
1		1	CD with pics of installation (<i>Block 8</i>)



THESE ARE TRANSMITTED as checked below:

- For your approval For your signature For review and comment
 For your use As you requested As requested by:
 Other:

REMARKS:

If enclosures are not as noted, kindly notify us at once.

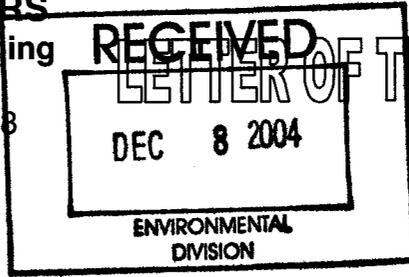
AES CONSULTING ENGINEERS

Engineering, Surveying, and Planning

5248 Olde Towne Road, Suite 1
WILLIAMSBURG, VIRGINIA 23188

Phone: (757) 253-0040

Fax: (757) 220-8994



ATTN: **Scott Thomas**

CO.: James City County

Address: Environmental Division

cc:

DATE 12/8/04	JOB NO. 6632-E-13-1
FROM: Robert Cosby	
RE New Town - Block 2 JCC-SP-118-03 BMP Certification	

*Section 2
Block 2
PARCEL A*

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- Attached
- Under separate cover via
- Original(s)
- Print(s)
- Plan(s)
- Specification(s)
- Change Order
- Copy of letter(s)
- Other:

COPIES	DATE	No. of Pages	DESCRIPTION
1	12/8/04	3	BMP Certification for BioFiltration 2-1 and 2-2 <i>pc193 pc194</i> <i>PC 193</i> <i>PC 194</i> <i>SP-118-03</i> <i>SP-25-03</i>

THESE ARE TRANSMITTED as checked below:

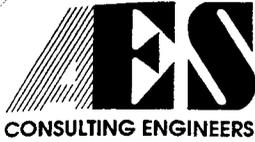
- For your approval
- For your signature
- For review and comment
- For your use
- As you requested
- As requested by:
- Other:

REMARKS:

Please let me know if you need any additional information related to the construction certification of these two Bio-Retention Areas located in Block 2. Based on our conversations with Jordan and others it would appear that upon submission and acceptance of the BMP Certification that the Subdivision Surety for Block 2 can be released for New Town.

Thanks
Bob Cosby

If enclosures are not as noted, kindly notify us at once.



5248 Olde Towne Road • Suite 1 • Williamsburg, Virginia 23188
(757) 253-0040 • Fax (757) 220-8994 • E-mail aes@aesva.com

June 25, 2003

Mr. Scott Thomas, P.E.
Environmental Division
James City County Development Management
101-E Mounts Bay Road
Williamsburg, VA 23187-8784

**RE: JCC Case No. SP-25-03. New Town Block 2
AES Job No. 6632-E-13-1**

Dear Mr. Thomas:

The following letter is in response to the comments received by this office, dated May 28, 2003. This submittal is for the purpose of acquiring a land disturbing permit for New Town Block 2. Upon receipt of final comments from Planning and JCSA the plans will be submitted to Planning for review and approval.

Included with this submittal is 2 copies of Plan Sheets 2, 3, 5, 6, and 12 which were modified as requested. A copy of the most recent land use summary spreadsheet is attached for your information. Remaining sheets will be submitted at a later date to Planning as noted above.

Environmental:
General Comments:

1. A Standard Inspection / Maintenance agreement is required to be executed with the County due to the proposed stormwater conveyance systems and the onsite stormwater management/BMP facilities associated with this project.
New Town Associates will execute the Standard Inspection / Maintenance agreement with the County.
2. Site Information. The following comments pertain to site information and tabulations as presented on plan Sheet 2.
 - 2a) For New Town Sections 2 and 4 Land Use Summary, break out the SunTrust Building Parcel (B) from the remaining parcel (A). The site plan number is the same. It should read: SP NO. 49-02, Sec. 4, Block 5, Parcel A with an impervious cover of 3.24 acres (please verify) and SP NO. 49-02, Sec. 4, Block 5, Parcel B (SunTrust Building) with an impervious cover of 0.80 acres (please verify). The idea would be that as each out-parcel is bought and

ENVIRONMENTAL DIVISION REVIEW COMMENTS
NEW TOWN, SECTION 2, BLOCK 2
COUNTY PLAN NO. SP - 25 - 03
May 28, 2003

MDW/SJT

General Comments:

1. A Standard Inspection / Maintenance agreement is required to be executed with the County due to the proposed stormwater conveyance systems and the onsite stormwater management/BMP facilities associated with this project.
2. Site Information. The following comments pertain to site information and tabulations as presented on plan Sheet 2.
 - 2a) For New Town Sections 2 and 4 Land Use Summary, break out the SunTrust Building Parcel (B) from the remaining parcel (A). The site plan number is the same. It should read: SP NO. 49-02, Sec. 4, Block 5, Parcel A with an impervious cover of 3.24 acres (please verify) and SP NO. 49-02, Sec. 4, Block 5, Parcel B (SunTrust Building) with an impervious cover of 0.80 acres (please verify). The idea would be that as each out-parcel is bought and developed, the remaining Parcel A would continue to get smaller (at least in open space) while the total area for Section 4, Block 5 would remain the same.
 - 2b) For clarification purposes, it would be helpful to add in parentheses the anticipated "owner" of each out-parcel (ie. Corner Pocket, William E. Wood, etc.) under the "project name" portions of the table.
 - 2c) For clarification purposes, list the Section 2, Block 2 portion as Parcel A as well. Our records show this parcel as having an impervious cover of 3.45 ac., not 3.41 ac. Please confirm this and change as required, including the total impervious cover for Section 2 and 4 and the percentage of impervious cover in Sections 2 and 4. Also update the Impervious Cover Tracking for BMP # 2 as necessary.
3. Site Information. For general clarification purposes, on Environmental Inventory Sheet 3, add the 'Owner' of each out-parcel in parentheses (ie. Corner Pocket, SunTrust, William E. Wood, etc.).

Erosion & Sediment Control Plan:

4. E&SC Plan. Relative to previous comment # 9 and it's subsequent response, it appears construction of the William E. Wood Building (County Plan No. SP-057-03) will affect and impact use of the previous perimeter temporary diversion dike as shown at the southeast corner of this site. This diversion intercepts upslope drainage away from the disturbed site and will collect and convey onsite disturbed area drainage to the temporary sediment trap. Plan Sheet 6 clearly shows a conflict between the location of the diversion dike and grading as necessary, especially fill necessary at the El. 98 building pad area. Further explain use of the diversion dike or if any adjustments are necessary due to onsite construction.
5. Other. Previous comment # 12 was not fully addressed. Although dust control (DC) was added to the E&SC legend on Sheet 6, keys and symbols consistent with Chapter 3 of the VESCH must be shown at select locations on the plan (ie. Monticello Avenue, Courthouse Street, Main Street, etc.).

Stormwater Management / Drainage:

6. Bioretention Basin. Previous comment # 13f was not addressed. Provide a single, low profile timber within Basin # 2-2 to promote filtering, infiltration and to minimize erosion of the mulch layer.

ENVIRONMENTAL DIVISION REVIEW COMMENTS
NEW TOWN, SECTION 2, BLOCK 2
COUNTY PLAN NO. SP - 025 - 03
April 1, 2003

MOW/SJT

General Comments:

1. A Land-Disturbing Permit and Siltation Agreement, with surety, are required for this project.
2. A Subdivision Agreement, with surety, shall be executed with the County prior to recordation of lots.
3. Water and sewer inspection fees must be paid prior to the issuance of a Land Disturbing Permit.
4. Record Drawing and Construction Certification. The onsite "filtering" stormwater management/BMP facilities as proposed for this project will require submission, review and approval of a record drawing (as-built) and construction certification prior to release of the posted bond/surety. Provide notes on the plan accordingly to ensure this activity is adequately coordinated and performed before, during and following construction in accordance with current County guidelines.
5. VPDES. Land disturbance for the project will exceed one (1) acre. Therefore, it is the owners responsibility to register for a General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Construction Activities, in accordance with current requirements of the Virginia Department of Environmental Quality and 9 VAC 25-180-10 et seq. Contact the Tidewater Regional Office of the DEQ at (757) 518-2000 or the Central Office at (804) 698-4000 for further information.
6. Watershed. Provide a note on the cover sheet of the plans indicating that this portion of the project is situated in subwatershed 208 (Lower Chisel Run) and catchment 208-103-1 of the Powhatan Creek watershed.

Chesapeake Bay Preservation:

7. Environmental Inventory. Label the non-tidal wetland impact area associated with this project and indicate the U.S. Army Corps of Engineers permit number (# 02-V2250-18).

Erosion & Sediment Control Plan:

8. Temporary Stockpile Areas. Step 2 of the sequence of construction shows topsoil removal from the site. Show any temporary soil stockpile, staging and equipment storage areas (with required erosion and sediment controls) or indicate on the plans that none are anticipated for the project site.
9. Erosion and sediment control plan. Although it is stated in the sequence of construction, show perimeter erosion and sediment control measures from County Plan No. SP-050-02 (Sheet 12) which may be necessary to provide onsite control for this specific plan of development.
10. Stabilization. Temporary stabilization of the building pad sites will be an important component of the erosion and sediment control plan for the site. Although future construction may occur on these outparcels, once the pad sites are at proposed grades as indicated on Sheet 5, stabilization with seed and mulch should be performed, regardless of the status of the parking lot, utility and site landscaping activities.

11. Sequence of construction. Revise or adjust the sequence of construction as shown on Sheet 12 to indicate the following:
 - 11a. Clarify when the perimeter silt fence is to be installed and when the silt fence is to be installed around each building pad site.
 - 11b. Include the riser and barrel in the removal of the sediment basin.
 - 11c. Include all offsite areas as shown on SP-050-02 upstream of the sediment basin to be stabilized prior to the basin being removed.
 - 11d. Include a note about written permission to remove the sediment basin from the Environmental Division prior to the removal.
12. Other. Due to the project's proximity to existing sidewalk and roadway along Monticello Avenue, include provisions in the erosion and sediment control plan for the site for safety fencing and dust control along Monticello Avenue in accordance with Minimum Standard & Specifications. 3.01 and 3.39 of the VESCH.

Stormwater Management / Drainage:

13. Bioretention Basins. The following pertains to the two bioretention (filtering) basins as proposed for the site. It is acknowledged that stormwater management for this site is provided by the offsite regional dry detention facility (County BMP ID Code: PC 173) and use of the onsite measures as proposed are an effort to provide additional stormwater management benefits for the site consistent with the Chesapeake Bay Preservation ordinance and the Powhatan Creek watershed management plan. As such, some flexibility can exist as it pertains to adherence to County and State minimum standards for design and construction of bioretention basins. For this specific review case, a written request for waiver from the minimum standards will not be necessary; however, some important features for design and construction of the basins will need addressed as follows:
 - 13a. For clarity purposes, provide identifiers for the two bioretention basins such as # 2-1 and # 2-2 or by other similar designations.
 - 13b. In the bioretention soils specifications on Sheet 11, add cattail to the deleterious plant species list.
 - 13c. Change the minimum size of the underdrain from 4-inch to 6-inch on Sheets 5 and 11.
 - 13d. Show minimum slope for the bioretention underdrain pipes and include at least one cleanout at the terminus of each of the drains.
 - 13e. For the bioretention basin at the south end of the project along Monticello Avenue, it appears the slope of the vegetative filter strip between the pea gravel diaphragm and the basin bottom is too steep (greater than 8 percent). Flatten the slope to less than 6 percent or provide for slope erosion protection from the diaphragm to the basin bottom.
 - 13f. Provide a single, low profile timber across the bioretention basin at the south end of the project along Monticello Avenue to promote filtering, infiltration and to minimize erosion of the mulch layer.
 - 13g. Use of a DI-7 type inlet top is recommended rather than a DI-1 type unit at storm drainage structure SS # 6-5 for the bioretention basin in the center parking lot island.
 - 13h. Provide additional construction information or a typical detail for the curb cut and outlet protection stone for the bioretention basin in the center parking lot island. Indicate stone size and quantity for the outlet protections.
 - 13i. Add an outlet protection device at the west end of the grass swale prior to entry into the bioretention basin along Monticello Avenue.
 - 13j. For plant diversity, use a minimum of three species of trees and three species of shrubs as well as herbaceous ground cover in both bioretention cells. This conforms with Minimum Standard & Spec. 3.11 of the VSMH.
 - 13k. Provide a note on the detail on Sheet 11 indicating that materials and installation of the bioretention basin shall conform with the provisions of the County BMP manual and Minimum Standard & Spec. 3.11 of the Virginia Stormwater Management Handbook to the greatest extent possible.

131. The large parking lot island as situated at/near storm drainage structure # SS 6-7 should also be considered as a feasible location for the use of a bioretention basin as it can receive a considerable amount of drainage area and easily connect to the receiving downstream storm pipe system. Use of bioretention at this location may lessen the need for irrigation of proposed landscaping within the parking lot island as shown on Sheet 9.
14. Storm System. Provide a note or show a proposed invert for connection of the proposed 48-inch pipe to the existing 48-inch pipe just east of existing storm drainage structure SS # 2-7B (Courthouse Street). Typically an access structure would be necessary at this location unless it can be shown that the pipe alignment is extended (not deflected) or if deflected, joint deflection(s) are within allowables based on pipe manufacturer and pipe association guidelines.
15. Inlets. For storm drainage inlets SS # 6-1 and SS # 6-2 as shown on Sheet 5, show the length (L) dimension for the DI-4A inlets. *(Note: Also, it appears that both these inlets may exceed 8 ft. depth. Per VDOT 104.15 a DI-MB structure may be necessary).*
16. Stormwater Conveyance Channel. Provide computations for the stormwater conveyance channel at the south end of the project which runs along Monticello Avenue. Although a typical section was shown on Sheet 5, it must be shown that the grass lined channel segments have adequate erosion resistance for the 2-year design storm and a one foot deep constructed channel with 4H:1V side slopes has adequate capacity for the 10-year design storm event. Label the channels on Sheet 6 with appropriate keys and symbols per Chapter 3 of the VESCH (SCC).



COUNTY ATTORNEY

101-C MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6612

Fax: (757) 253-6833

LEO P. ROGERS
COUNTY ATTORNEY
E-MAIL ADDRESS: lprogers@james-city.va.us
(757) 253-6614

MICHAEL H. DREWRY
ASSISTANT COUNTY ATTORNEY
E-MAIL ADDRESS: michaeldr@james-city.va.us
(757) 253-6832

KATHRYN M. ASTON
ASSISTANT COUNTY ATTORNEY
E-MAIL ADDRESS: kaston@james-city.va.us
(757) 253-6613

November 9, 2004

Mrs. Betsy Woolridge
Clerk of the Circuit Court
5201 Monticello Avenue, Suite 6
Williamsburg, VA 23188-8218

Dear Mrs. Woolridge:

RE: Document for Recordation

Enclosed for recordation is the Declaration of Covenants between New Town Associates, Inc., and the County of James City, Virginia, dated October 26, 2004.

Please deduct the recording fee from our escrow account. After the document has been recorded, I would appreciate you returning it to me.

Thank you for your assistance. If you have any questions, please feel free to call me.

Sincerely,

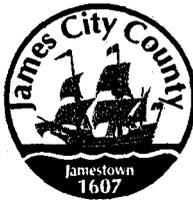
Leo P. Rogers
(mfr)

Leo P. Rogers
County Attorney

LPR/kck

Enclosure

Cc: Joan Etchberger, Environmental Division (w/out enc.)



COUNTY ATTORNEY

101-C MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6612

Fax: (757) 253-6833

FRANK M. MORTON, III
COUNTY ATTORNEY
E-MAIL ADDRESS: fmmorton@james-city.va.us
(757) 253-6613

LEO P. ROGERS
DEPUTY COUNTY ATTORNEY
E-MAIL ADDRESS: lprogers@james-city.va.us
(757) 253-6614

MICHAEL H. DREWRY
ASSISTANT COUNTY ATTORNEY
E-MAIL ADDRESS: michaeldr@james-city.va.us
(757) 253-6832

July 13, 2004

Mrs. Betsy Woolridge
Clerk of the Circuit Court
5201 Monticello Avenue, Suite 6
Williamsburg, Virginia 23188



Dear Mrs. Woolridge:

RE: Documents for Recordation

Enclosed please find a Declaration of Covenants between the County of James City and New Town Associates, LLC, dated July 8, 2004, and a Declaration of Covenants between the County of James City and Newtown of Williamsburg, VA, L.L.C., dated July 9, 2004, for recordation.

Please deduct the recording fees from our escrow account. After the documents have been recorded, I would appreciate you returning them to me.

Thank you for your assistance. If you have any questions, please feel free to call me.

Sincerely,

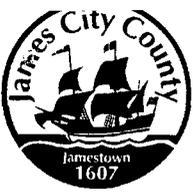
Leo P. Rogers (mfr)

Leo P. Rogers
Acting County Attorney

LPR/bk

Enclosures

cc: ✓ Joan Etchberger



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

SP-118-03

County BMP ID Code (if known): PC194

Name of Facility: New Town sec 2 Block 2 ^{PARCEL A} BMP No.: 1 OF 2 Date: 02-6-05

Location: William E. Wood @ Monticello Ave.

Name of Owner: New Town Assoc. LLC

Name of Inspector: ST Thomas

Type of Facility: Bioretention # 2-2

Weather Conditions: Sunny 60's 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.

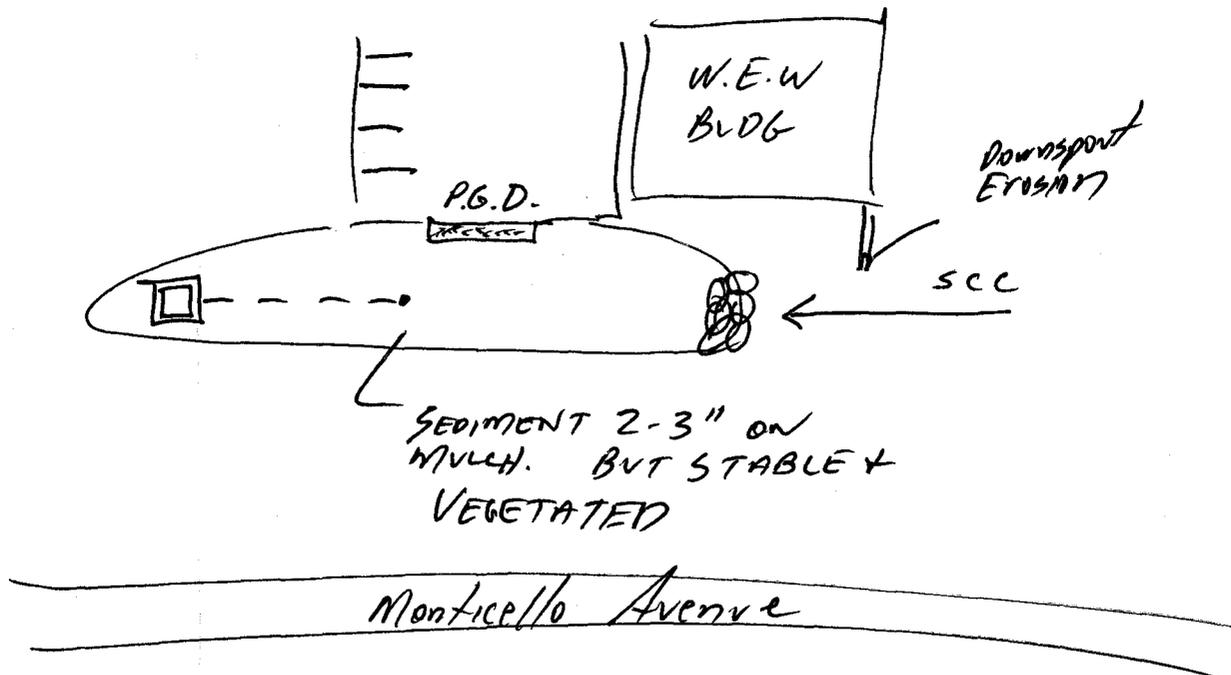
Provide an explanation and details in the comment column, if routine or urgent are marked.

Facility Item	O.K.	Routine	Urgent	Comments
Accessibility:				
Roads	✓			<u>William E. Wood PARK LOT</u>
Parking Areas	✓			
Gates	NA			
Locks	NA			
Safety Fencing	NA			
Observation Wells/Areas:				
Trap Doors	NA			
Manhole Covers	NA			
Grates	NA			
Steps	NA			
Pretreatment Devices: <input type="checkbox"/> Inlet <input type="checkbox"/> Sump <input type="checkbox"/> Forebay <input checked="" type="checkbox"/> Other <u>25' PER GRAVEL DIAPHRAGM</u>				
Sediment	✓			
Trash & Debris	✓			
Structure	✓			
Other				
<u>Serves Parking Lot & Building.</u>				

Facility Item	O.K.	Routine	Urgent	Comments
Inflow Structure (Describe Type/Location): 2 INFLOWS: PARKING LOT + SCC				
Condition	✓			
Erosion	✓			Some @ downspout leader
Trash and Debris	✓			
Sediment	✓			
Aesthetics	✓			
Other				
Primary Infiltration (Bioretention Cell) Area: 75' L x 15' W; 4" BACKUP DRAIN 18" FROM TOP INLET.				
Specialty Landscaping	✓			19 SHRUBS; 6 TREES COUNTED
Mulch Layer	✓			MULCH / GRASS LAYER
Planting Soil/Sand	✓			NO SUBSIDENCE
Subgrade Soil	✓			
Aggregate	✓			
Underdrain	✓			6" UNDERDRAIN PERF.
Sediment	✓			
Aesthetics				
Overflow or Bypass Control Structure (Describe Type/Location): D1-7 CONC. INLET, 6' DEEP				
Condition	✓			
Erosion	✓			
Trash & Debris	✓			Some minor trash/debris
Sediment	✓			
Other				2' HIGH BERM ON LOW SIDE
Outlet Structure (Describe Type/Location): 12" RCP FROM D1-7				
Condition	✓			
Erosion	✓			
Trash & Debris	✓			
Sediment	✓			
Other				
Contributing Drainage Area/Perimeter Conditions:				
Land Use	✓			Mixed-USE
Stabilization	✓			LANDSCAPING OR PAVED
Trash & Debris	✓			
Pollutant Hazard	✓			Possible
Other				

Sketch and/or Remarks:

LANDSCAPING 19 SHRNBS
6 TREES



JCL/wmBG
CONTRACTOR

Overall Environmental Division Internal Rating: 3

Signature: [Signature] P.E.

Date: 02-06-05

Title: Senior Engineer ENV DIV

Date Record Created: [REDACTED]

WS_BMPNO:

PC194

Created By: [REDACTED]

WATERSHED PC
BMP ID NO 194
PLAN NO SP-118-03
TAX PARCEL (38-4)(24-15)
PIN NO 3842400015
CONSTRUCTION DATE 6/1/2004
PROJECT NAME New Town - Sec 2, Block 2, Parcel A
FACILITY LOCATION Interior Parking Lot William E. Wood Bdg
CITY-STATE Williamsburg, Va. 23185
CURRENT OWNER New Town Associates LLC
OWNER ADDRESS 4801 Courthouse Street
OWNER ADDRESS 2 Suite 329
CITY-STATE-ZIP CODE Williamsburg, Va. 23185
OWNER PHONE 565-6200
MAINT AGREEMENT No
EMERG ACTION PLAN No

MAINTENANCE PLAN No
SITE AREA acre 8.217
LAND USE Mixed Use
old BMP TYP Bioretention
JCC BMP CODE D1 Bioretention
POINT VALUE 10

SVC DRAIN AREA acres

SERVICE AREA DESCR Building & Parking Lot
IMPERV AREA acres 0.00
RECV STREAM UT of Powhatan Creek
EXT DET-WQ-CTRL Yes
WTR QUAL VOL acre-ft 0
CHAN PROT CTRL No
CHAN PROT VOL acre-ft 0
SW/FLOOD CONTROL Yes
GEOTECH REPORT No

CTRL STRUC DESC DI-7 Conc
CTRL STRUC SIZE inches
OTLT BARRL DESC RCP
OTLT BARRL SIZE inch 15

EMERG SPILLWAY No
DESIGN HW ELEV unk
PERM POOL ELEV na
2-YR OUTFLOW cfs 0.00
10-YR OUTFLOW cfs 0.00
REC DRAWING Yes

CONSTR CERTIF Yes
LAST INSP DATE 2/6/2005
INTERNAL RATING 3
MISC/COMMENTS
 Cell # 2-2. Also see PC 193.

Inspected by: [REDACTED]

[Get Last BMP No](#)

[Return to Menu](#)

[Print Record](#)

Additional Comments:

[REDACTED]

TRANSMITTAL



DATE: September 4, 2003

TO: Environmental
Fire
JCSA
VDOT
Wayland Bass
Lee Schnappinger

FROM: Matthew Arcieri, Planner

SUBJECT: SP-118-03, New Town, Block 2 SP Amendment

*SEC 2 BLOCK 2
PARCEL A
(PREVIOUS APPROVED SP-25-03)*

ITEMS

ATTACHED: Plan
Water Data Sheet
Drainage Calculations

ACTION: Please review and return comments by September 18, 2003

Approved DEC 10/13/03

RECEIVED SEP 17 2003
DVC Sept 26



ECS Mid-Atlantic, LLC

108 Ingram Road
Suite 1
Williamsburg, VA 23188
(757) 229-6677

LETTER OF TRANSMITTAL

August 30, 2007

Venture Construction
4-A Terrance Way
Greensboro, NC 27403

ATTN: Dan Finger

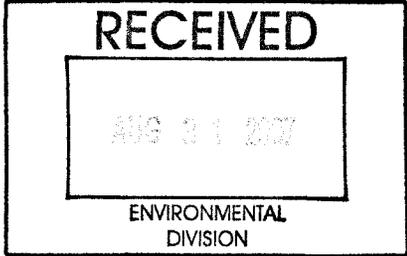
RE: Bonafish Grill @ Newtowna

S-142-06

ECS Job # 07:9079

Permits:

Location: **5212 Moticello Ave.**
Williamsburg, VA



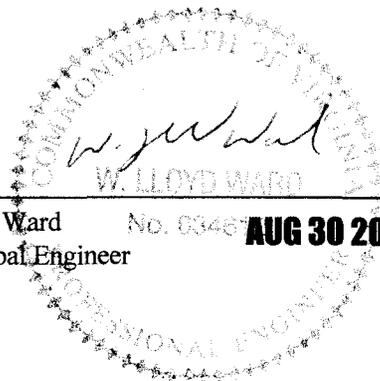
We are enclosing:

- Materials Engineering Division Reports
- For your use
- As requested

CC: Venture Construction - Robert Simmerman
James City County Compliance - L. D. Kemp
Williamsburg Developers, LLC - Kevin Dowd
SHOR Real Estate - Nathan A. Shor

ENCL:

- | | | |
|-------------------|------------|-------------------|
| Field Report # 52 | 08/29/2007 | Bioretention cell |
| Field Report # 53 | 08/30/2007 | Bioretention cell |



Lloyd Ward
Principal Engineer

No. 03467 **AUG 30 2007**

David Poling

David T. Poling
Project Engineer

8/4/07 PC-194 certification given to us after a rebuilt. BMP was destroyed by Dominion power during Bonafish Grill construction.

