



See also WC010

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.

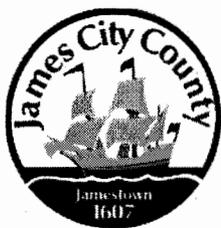
BMP NUMBER: WC008

DATE VERIFIED: September 7, 2012

QUALITY ASSURANCE TECHNICIAN: Leah Hardenbergh



LOCATION: WILLIAMSBURG, VIRGINIA



Stormwater Division

MEMORANDUM

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

General File ID or BMP ID: WC008

PIN: 1240100037A

Subdivision, Tract, Business or Owner

Name (if known):

Bryant, W Barry

Property Description:

Bryant Contracting

Site Address:

7754 Richmond Road

(For internal use only)

Box 13

Drawer: 8

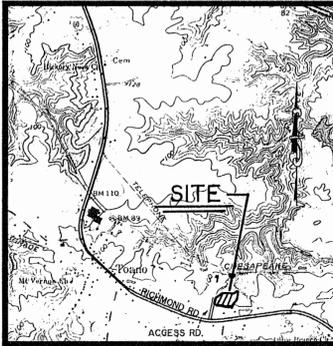
Agreements: (in file as of scan date)

N

Book or Doc#:

Page:

Comments



VICINITY MAP
SCALE: 1"=2000'



JURISDICTION OF JAMES CITY
FINAL SITE PLAN

APPROVALS	DATE
File Dept.	
Health Dept.	
Police Dept.	
Plan. Comm.	
Public Works Dept.	
Zoning Admin.	
DCR	
Other	

STATISTICAL INFORMATION

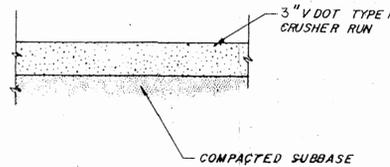
ZONING M-2
TAX MAP 12-4 PARCEL 37 - A
AREA OF GRAVEL STORAGE YARD 43,600 SQ. FT.



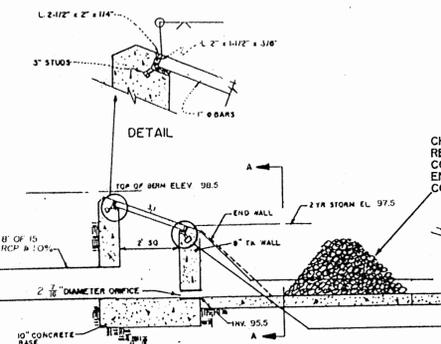
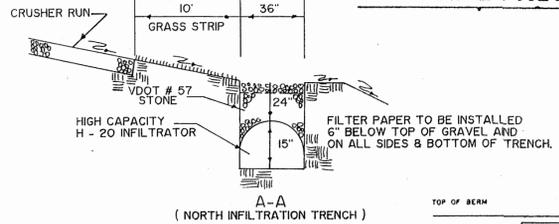
CHECK DAM

LANDSCAPING NOTES:

- ALL REQUIRED PLANTINGS SHALL CONFORM WITH THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN STANDARD OF NURSERYMEN AND SHALL BE PLANTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF GUIDELINES FOR PLANTING LANDSCAPE TREES AND PLANTING AND CARE OF TREES & SHRUBS PUBLISHED BY THE VIRGINIA COOPERATIVE EXTENSION SERVICE. A TEMPORARY FENCE OR BARRIER SHALL BE LOCATED & MAINTAINED OUTSIDE THE DRILLLINE OF ALL TREES TO BE PRESERVED BEFORE COMMENCEMENT OF CLEARING & GRADING. NO MATERIAL DEBRIS, FILL, VEHICLES, OR EQUIPMENT SHALL BE STORED WITHIN THE FENCE ENCLOSURE. NOR SHALL THE TOPSOIL LAYER BE DISTURBED.
- TREES & SHRUBS TO BE PLANTED SHALL BE IN ACCORDANCE WITH SECTIONS 20-14.2 a., b., AND 20-14.2 d(3) OF THE ZONING ORDINANCE. A SHRUB SHALL BE DEFINED AS A LOW GROWING WOODY PLANT HAVING SEVERAL PERMANENT STEMS WHICH IS, AT PLANTING, 18 INCHES IF EVERGREEN OR 22 INCHES IF DECIDUOUS.
- A TREE SHALL BE DEFINED AS: (a) A DECIDUOUS SHADE TREE HAVING A MINIMUM CALIPER OF 1-1/2 INCHES AT PLANTING OR (b) AN EVERGREEN TREE AT LEAST EIGHT (8) FEET IN HEIGHT, AND A MINIMUM CALIPER OF 1-1/4 INCHES IF SINGLE STEMMED AT PLANTING, OR EIGHT (8) FEET IN HEIGHT IF MULTI-STEMMED AT PLANTING. THE TERM TREE SHALL NOT INCLUDE ORNAMENTAL TREES AS DEFINED BELOW.
- AN ORNAMENTAL TREE SHALL BE DEFINED AS A DECIDUOUS OR EVERGREEN TREE WHICH, IF SINGLE STEMMED IS EIGHT (8) FEET IN HEIGHT AND HAS A MINIMUM CALIPER OF 1-1/4 INCHES, AT PLANTING, OR IF MULTI-STEMMED HAS A HEIGHT OF EIGHT (8) FEET AT PLANTING.



GRAVEL LOT SECTION

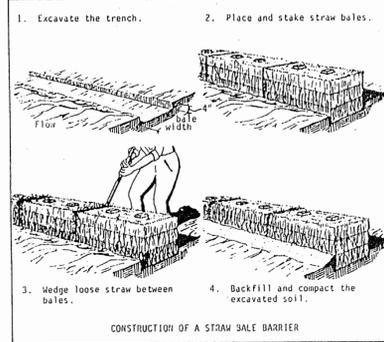


OUTLET STRUCTURE

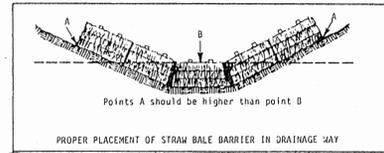
NOTE:
NORTH INFILTRATION TRENCH TO BE H-20, HIGH CAPACITY INFILTRATOR MANUFACTURED BY INFILTRATOR SYSTEMS, INC. COVERED WITH 24" OF VDOT # 57 STONE.

N/F
SHELDON WOOD PRODUCTS
TAX MAP 12-4
PARCEL 35
ZONED: M-2

N/F
SLEEPY HOLLOW CORP.
OF TOANO
TAX MAP 12-4
PARCEL 40
ZONED: A-1

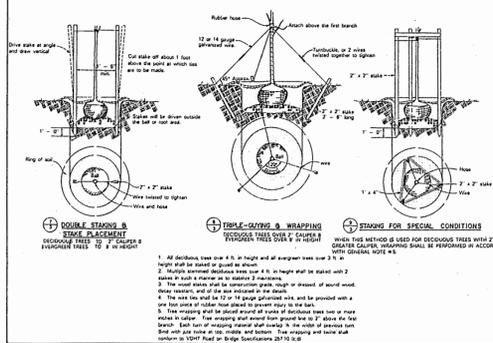


CONSTRUCTION OF A STRAW BALE BARRIER



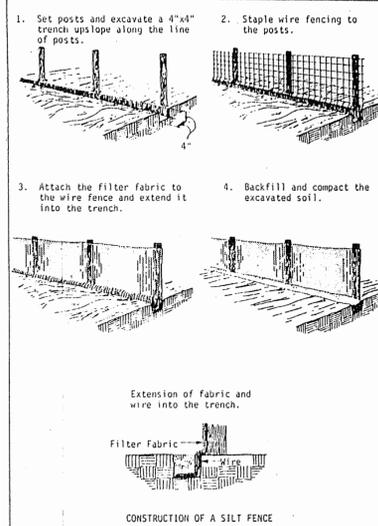
PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

STAKING, GUYING, AND WRAPPING



PLANTING DETAILS

3,582 ACRES PURCHASED BY
BRYANT CONTRACTING, INC.
SEE PLAT BY AES, WILLIAMSBURG, VA.
DATED 4/29/91
TAX MAP 12-4
PART OF PARCEL 37
ZONED: M-2



CONSTRUCTION OF A SILT FENCE

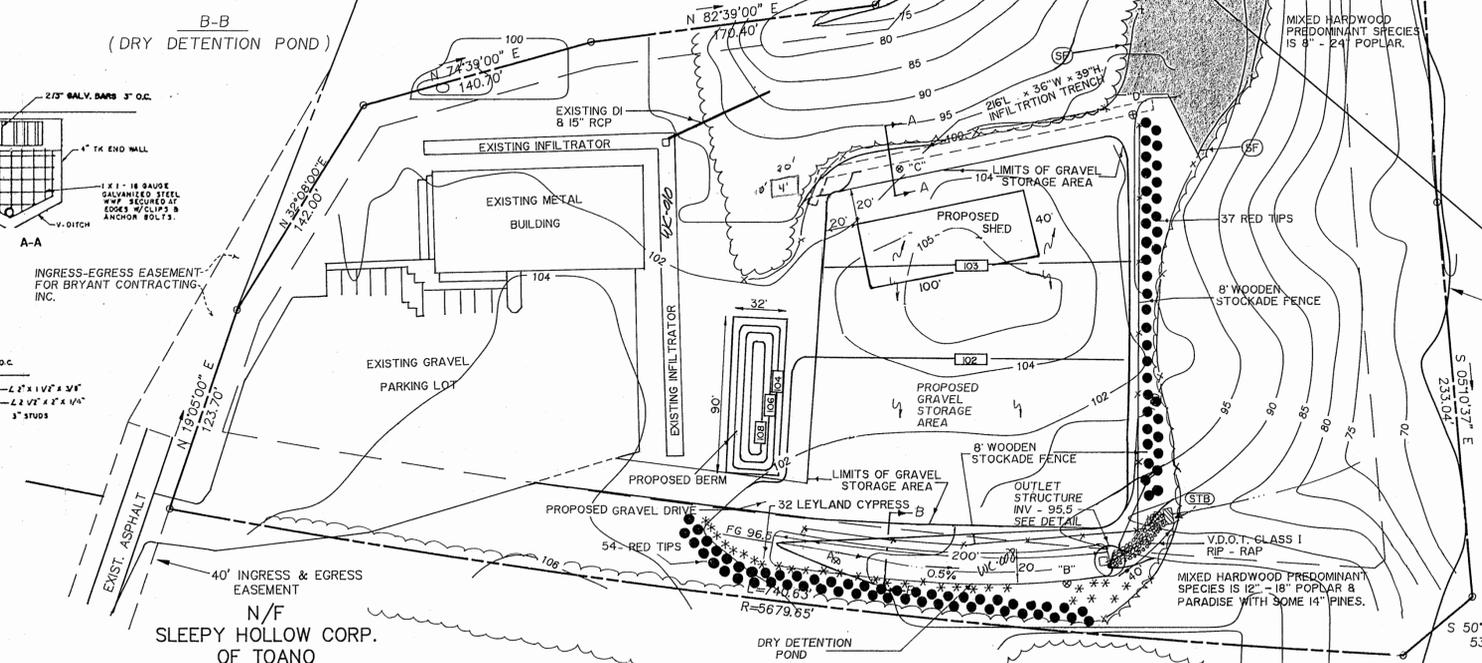
NOTE: 1) CONSTRUCTION OF THE INFILTRATION TRENCH AND DRY POND SHALL BE DELAYED UNTIL AFTER DISTURBED AREAS DRAINING TO THEM ARE STABILIZED.
2) THE PROPOSED SHED IS A 100' (L) x 40' (W) x 25' (H) LUMBER STORAGE SHED.

GENERAL NOTES

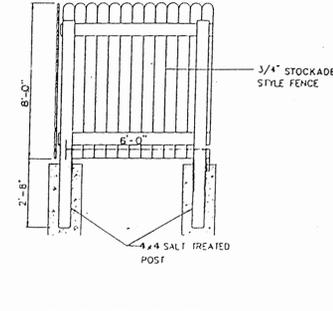
- All construction shall conform to current City/County and/or VDOT standards and specifications unless otherwise specified.
- Contractor shall secure the latest edition of the Virginia Erosion and Sediment Control Handbook and comply with all County requirements for erosion and sediment control.
- All cuts, vegetation and deleterious material encountered shall be removed and disposed of off site.
- Select material required for fill and backfill under parking lot, footings and structures. It shall be placed in layers not to exceed eight inches (8") in thickness and compacted to 95% of maximum density as determined by ASTM D-698.
- All concrete shall be Class A-3 air entrained (3000 P.S.I.).
- All green area, within limits of construction, to be topsoiled, fertilized and mulched.
- Contractor shall obtain at his own expense, any permit or bond if required by any government agency.
- Contractor shall be responsible for location, protecting and resolving any conflicts with existing utilities and shall repair, at his own expense, all utilities to be relocated or damaged by construction.
- Any errors or discrepancies shall be reported to the architect or the surveyor before proceeding with the work.
- Dewatering or excavation, if needed, is part of this contract.
- Before digging call "Miss Utility" of Virginia 1-800-552-7001.
- Contractor shall obtain permits from the State Highway Department prior to any work in the State's right-of-way. The contractor to restore and clean up the site to the satisfaction of Highway Department.
- Contractor must obtain all necessary building permits prior to construction.

Erosion and Sediment Control Notes

- All erosion and sediment control measures shall be installed and maintained in accordance with the Virginia Erosion and Sediment Control Handbook. The contractor shall be thoroughly familiar with all applicable measures contained therein which may be pertinent to this project.
- All points of construction ingress and egress shall be protected by a Temporary Construction Entrance to prevent tracking of mud onto public right-of-ways. An entrance permit from VDOT is required prior to any construction activities within State right-of-ways.
- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment on-site must be constructed as a first step in grading and be made functional before uplope land disturbance takes place. Erosion structures such as dams, dikes, and diversions must be seeded and mulched within 15 days of installation. An onsite pre-construction meeting will be held between the Office of Code Compliance and the contractor to identify these measures to be initially installed.
- Maintenance of all erosion and sediment control measures shall be accomplished in accordance with the Virginia Erosion and Sediment Control Handbook. Maintenance will include the repair of measures damaged by any subcontractor including those of the public utility companies at the pre-construction meeting. The contractor will supply Code Compliance with the name of the individual who will be responsible for ensuring maintenance of installed measures on a daily basis.
- Surface flows over cut and fill slopes shall be controlled by either redirecting flows from transverse ditches or by installing mechanical devices to safely lower water run-off without causing erosion. A temporary fill diversion (Std. A Spec. 1.18) shall be installed prior to the end of each working day.
- Sediment control measures may require minor field adjustments at time of construction to insure their intended purpose is accomplished. Office of Code Compliance approval will be required for other deviations from approved plans.
- The contractor shall strip and pile topsoil at the locations shown on this plan or as directed by the engineer. Silt fence shall be placed at the toe of the stockpile after stripping of topsoil is complete.
- The contractor shall complete drainage facilities within 30 days following completion of rough grading on any portion of the project. The installation of drainage facilities shall take precedence over all underground utilities. Gullies from drainage structures shall be stabilized immediately after construction of same. 100% drainage installation of erosion control stone where required. Any drainage facilities required for a street must be completed before street grading begins.
- Permanent or temporary soil stabilization must be applied to all denuded areas within 7 days after final grade is reached on any portion of the site. Soil stabilization must be applied to denuded areas which may not be at final grade but will remain dormant (undisturbed) for longer than 30 days. Soil stabilization measures include vegetative establishment, mulching and the early application of gravel base material on areas to be paved.
- No more than 30% of sanitary sewer, storm sewer, or waterlines are to be open one time. Following installation of any portion of these lines, all disturbed areas are to be immediately stabilized (i.e., the same day).
- If disturbed area stabilization is to be accomplished during the months of December, January, or February, stabilization shall include vegetative establishment, mulching and the early application of gravel base material on areas to be paved.
- The term Seeding, Final Vegetative Cover or Stabilization, on this plan shall mean the successful germination and establishment of a stable grass cover from a properly prepared seedbed containing the specified amounts of seed, lime and fertilizer in accordance with Specification 1.68. Permanent Seeding, Irrigation shall be required as necessary to ensure establishment of grass cover.
- All slopes steeper than 3:1 shall require the use of erosion control blankets such as straw blankets to aid in the establishment of a vegetative cover. Installation shall be in accordance with Specification 1.75. Mulching and Manufacturer's instructions.
- Inlet protection in accordance with Specification 1.08 shall be provided for all storm drain inlets as soon as practical following construction of same.
- Temporary liners, such as polyethylene sheets, shall be provided for all paved ditches until the permanent concrete liner is installed.
- Paved ditches shall be required wherever erosion is evident. Particular attention shall be paid to those areas where grades exceed 3%.
- Temporary erosion control measures are not to be removed until all disturbed areas are stabilized. After stabilization is complete, all measures shall be removed within 30 days. Trapped sediment shall be spread and seeded.
- Off-site waste or borrow areas shall be approved by the Office of Code Compliance prior to the import of any borrow or export of any waste to or from the project site.
- All paved and/or sloped outfalls will be constructed before road grading and utility installation begins.



N/F
SLEEPY HOLE CORP.
OF TOANO
TAX MAP 13-3
PARCEL 1
ZONED: A-1



STOCKADE FENCE DETAIL

TREE LEGEND

- RED TIPS
- * LEYLAND CYPRESS
- ⊙ SOIL TEST BORES

OWNER / DEVELOPER
BRYANT CONTRACTING, INC.
P.O. BOX 1000
TOANO, VIRGINIA 23168

Rickmond Engineering, Inc.
Civil Engineering
Environmental Engineering
Land Surveying
1643-C Merrimac Trail
Williamsburg VA 23185
(804)229-1776 or 898-4149



NO.	REV.	PER.	COMMENTS	L.T.R.	D.T.D.	5/29/91	DCR	6/5/91	Date
1	KMJ	REV.	PER.	COMMENTS	L.T.R.	D.T.D.	5/29/91	DCR	6/5/91

**BRYANT SITE PLAN
ADDENDUM
CONTRACTOR'S STORAGE YARD**

JAMES CITY COUNTY
VIRGINIA

Job Number	91191
Sheet No.	1

WC008
WC010

Bryant Contracting, Inc.

Site Plan Addendum

Runoff Analysis

Project No. 91191

Rickmond Engineering, Inc.
1643-C Merrimac Trail
Williamsburg, VA 23185
(804) 229-1776

April 23, 1991

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Size Orifice to Release 2-year Storm	5
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**Runoff Analysis
Bryant Contracting, Inc.
Site Plan Addendum**

James City County, Virginia
June 14, 1991

Introduction

This runoff analysis report has been prepared in accordance with the James City County, James City Service Authority Design Manual for Runoff Analysis Reservoir Protection Overlay District (R.P.O.D.). This report is a supplement to the design documents for the referenced project which indicates the design details and locations of reservoir protection features.

Description

Bryant Contracting, Inc. is located on 6.81 acre site at 7754 Richmond Road in Toano, Virginia. The entire parcel is located in the R.P.O.D. and is zoned M-2.

The site consists of an existing 7,500 sf storage and office building with an adjacent gravel parking lot. The area to be developed is east of the existing building and is to be a 43,600 sf gravel contractor storage yard with 100'x 40' storage shed.

At present the site is on a high spot and drains to all sides. After development the gravel storage yard will drain to an infiltration trench to the north side and a dry detention pond to the south side. The soil on site is classified as Suffolk fine sandy loam, (Soil Group B). The erosion hazard in this classification of soil is slight. The infiltration trench and dry detention pond are also used to satisfy the 10-point BMP requirement by James City County. The infiltration trench (Design #9) and dry detention pond (Design #3) serve the entire gravel storage area and achieve 7.4 BMP points with the remaining 2.6 BMP points achieved by dedicating 11,160 SF as Natural Open Space for a total of 10 BMP points.

Runoff Characteristics

The method used for estimating peak runoff rates and volumes is the "Rational Method". The loading volumes for sediment and phosphorous were based on the rates tabulated in the Design Manual for Runoff Analysis.

Runoff and Pollution Control

The infiltration trench and dry detention pond are designed to control one inch of runoff from the impervious surfaces plus the increase in runoff for the 2-year storm due to development. The trench and pond are used for temporary storage, infiltration, and removal of runoff pollutants. A removal efficiency of 75-90% for suspended soils (sediment) and phosphorous is anticipated.

All erosion and sediment control measures will be employed during the construction of the detention pond. The control measures will be installed in accordance with the 1980 Virginia Erosion and Sediment Control Handbook and the James City County Code Compliance Department.

RICKMOND ENGINEERING, INC.

1643C MERRIMAC TRAIL
WILLIAMSBURG, VA 23185
(804)229-1776 or (804)898-4149
FAX NUMBER (804)220-9370

JOB 91191
SHEET NO. 1 OF _____
CALCULATED BY KMS DATE 4/22/91
CHECKED BY _____ DATE _____
SCALE _____

INFILTRATION TRENCH

A. Per SCS's "Soil Survey of James City + York Counties and the City of Williamsburg, Virginia" soil in the area of the project is Suffolk fine sandy loam, (Soil Group B)

B. Pre-Development

DA- _____

$C = .20$
 $A = 1.0$ ac.

OVERLAND FLOW

$L = 150$ ft.

$S = 6.67\%$

$T_c = 16$ min.

CHANNEL FLOW

$H = \underline{\hspace{1cm}}$ ft.

$L = \underline{\hspace{1cm}}$ ft.

$T_c = \underline{\hspace{1cm}}$ min.

$T_c = 16$ min.

$i_{10} = 3.8$ in/hr

$Q = CAi = (.20)(1.0 \text{ Ac.})(3.8 \text{ in/hr})(C_f)$

C_f for storms 25 yr+
(VDOT Manual Pg. 1-11)

$Q_2 = 1.76$ cfs

Post - Development

DA- _____

$c = \underline{.90}$
 $A = \underline{1.0}$ Ac.

OVERLAND FLOW

$L = \underline{150}$ ft.

$S = \underline{5.33}$ %

$T_c = \underline{\quad}$ min.

CHANNEL FLOW

$H = \underline{\quad}$ ft.

$L = \underline{\quad}$ ft.

$T_c = \underline{\quad}$ min.

$T_c = \underline{5}$ min.

$i_{\frac{1}{2}} = \underline{5.7}$ in/hr

$Q = CAi = (\underline{.90}) (\underline{1.0} \text{ Ac.}) (\underline{5.7} \text{ in/hr}) (C_f \quad)$

C_f for storms 25 yr+
(VDOT Manual Pg. 1-11)

$Q = \underline{5.13}$ cfs

From Waller Method:

$CA_{dev} = .90$

$T_{cdev} = 5 \text{ min}$

$Q_{out} = 0.76 \text{ cfs}$

$V = 3960 \text{ cf}$

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JOB 91191
SHEET NO. 3 OF _____
CALCULATED BY KMJ DATE 4/22/91
CHECKED BY _____ DATE _____
SCALE _____

C. Determination of Non-Point Pollution Rates for Sediment & Phosphorus

1) Sediment

a) Pre-Development - Table 2.1, Idle Land, sandy loam

$$\text{Annual Loading Rate} = .01 \text{ tons/ac/yr}$$

$$\text{Loading Rate} = (.01 \text{ tons/ac/yr})(.10 \text{ ac}) = .01 \text{ tons/yr}$$

b) Post-Development - Table 2.1, Indus (High Imp.), sandy loam

$$\text{Annual Loading Rate} = .22 \text{ tons/ac/yr}$$

$$\text{Loading Rate} = (.22 \text{ tons/ac/yr})(1.0 \text{ ac}) = .22 \text{ tons/yr}$$

2) Total Phosphorus

a) Pre-Development - Table 2.2, Idle Land, sandy loam

$$\text{Annual Loading Rate} = .1 \text{ tons/ac/yr}$$

$$\text{Loading Rate} = (.1 \text{ tons/ac/yr})(1.0 \text{ ac}) = .10 \text{ tons/yr}$$

b) Post-Development - Table 2.2, Indus (High Imp.), sandy loam

$$\text{Annual Loading Rate} = 1.14 \text{ tons/ac/yr}$$

$$\text{Loading Rate} = (1.14 \text{ tons/ac/yr})(1.0 \text{ ac}) = 1.14 \text{ tons/yr}$$

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JOB 91191
 SHEET NO. 4 OF _____
 CALCULATED BY KMJ DATE 4/22/91
 CHECKED BY _____ DATE _____
 SCALE _____

D. Total Impervious Area

Area = 1.0 ac = 43,600 sf

E. Total Volume of Water to be Infiltrated (1" rainfall)

$V = \left(\frac{1ft}{12in}\right) (1in) (43,600 sf) = 3,633 cf < 3960 cf$
 \therefore 2yr Storm Governs

F. Design Infiltration Trench

1) North Side Infiltrator:

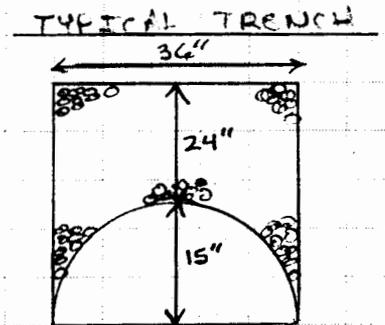
∇ 24" Gravel / LF = $(6.00 cf/LF + 1.25 cf/LF) \cdot 4 = 2.90 cf/LF$

∇ Infiltrator / LF = 2.35 cf / LF

∇ Trench / LF = 5.25 cf / LF

$\nabla = 1135 cf$

Trench Length = $\frac{1135 cf}{5.25 cf/LF} = 216 LF$

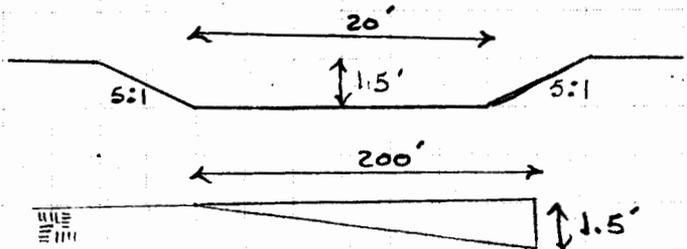


G. Design Dry Detention Pond

$\nabla = 2825 cf$

$\nabla = 200' L \times 20' W \times .75D (avg)$

$\nabla = 3000 cf$



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 WILLIAMSBURG, VA 23185
 (804)229-1776 or (804)898-4149
 FAX NUMBER (804)220-9370

JOB 91191
 SHEET NO. 5 OF _____
 CALCULATED BY KmJ DATE 6/14/91
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Size Orifice to Release 2yr Post-Development storm over
 24 hrs

$$V = 2825 \text{ cf}$$

H for storage of 2,825 cf is 1.5' @ Elev 97.0

$$Q = \frac{2825 \text{ cf}}{1 \text{ day}} \left| \frac{1 \text{ day}}{24 \text{ hr}} \right| \left| \frac{1 \text{ hr}}{60 \text{ min}} \right| \left| \frac{1 \text{ min}}{60 \text{ sec}} \right| = .033 \text{ cfs}$$

$$Q = CA \sqrt{2gh}$$

$$h = \left(\frac{2}{3}\right)H = \left(\frac{2}{3}\right)(1.5) = 1.0'$$

$$.033 = (.6) A \sqrt{2(32.2)(1.0)}$$

$$A = .0069' = \pi r^2$$

$$r = .047' = .56'' \longrightarrow \text{Use } 1'' \text{ diameter orifice}$$

Drawdown time = 1.45 hrs.

CULVERT DESIGN
 Outlet Structure

c= _____
 A= _____ Ac.

OVERLAND FLOW

L= _____ ft.
 S= _____ %
 Tc= _____ min.

CHANNEL FLOW

H= _____ ft.
 L= _____ ft.
 Tc= _____ min.

Tc= _____ min

i_{10} = _____ in/hr

$Q = CAi = (\quad) (\quad \text{Ac.}) (\quad \text{in/hr})$

Q = 5.13 cfs

Inv₁ = 95.50

L = 8 ft.

Inv₀ = 95.42

S = 1.0 %

HW = 3.0 ft.

INLET CONTROL

D = 15 in. or 1.25 ft.

HW/D = 1.3

$HW = (\underline{1.25 \text{ ft.}}) (\underline{1.3}) = \underline{1.63 \text{ ft.}} < \underline{3.0 \text{ ft.}}$

RICKMOND ENGINEERING, INC.

1643 C Merrimac Trail
WILLIAMSBURG, VIRGINIA 23185
(804) 229-1776
(804) 875-1785

JOB 91191
SHEET NO. 7 OF _____
CALCULATED BY KMS DATE 6/17/91
CHECKED BY _____ DATE _____
SCALE _____

OUTLET CONTROL

$$d_c = 0.9$$

$$h_o = \frac{d_o + D}{2} = \frac{\quad + \quad}{2} = 1.08$$

$$S_o L = (.01)(8) = .08$$

$$d_n = .93$$

$$\frac{d}{D} = .74 \quad \frac{r}{D} = .3006$$

P.E. Manual Pg 3-43

$$R = .38$$

$$v = 5.19 \text{ fps}$$

$$H = \left(1 + k_e + \frac{29n^2 L}{R^{4/3}}\right) \frac{v^2}{2g} = .71$$

$$HW = H + h_o - S_o L = 1.71' < 3.0'$$

Outlet Control Governs

TABLE 2

**BMP POINT SYSTEM FOR EVALUATION
ACCEPTABLE STRUCTURAL BMPS**

Acceptable BMP	Average Total P Removal Efficiency	BMP Points
A. EXTENDED DRY DETENTION		
(1) Design 2 (6-12 hrs):	20%	4
(2) Design 3 (24 hrs):	30%	6
(3) Design 4 (shallow marsh):	50%	9
B. WET POND		
(1) Design 5 (0.5 in/imp. ac):	35%	6
(2) Design 6 (2.5 V):	40%-45%	8
(3) Design 7 (4.0 V):	50%	9
C. INFILTRATION (TRENCH, BASIN, POROUS PAVEMENT)		
(1) Design 8 (0.5 in/imp. ac):	50%	9
(2) Design 9 (1.0 in/imp. ac):	65%	10
(3) Design 10 (2-yr storm):	70%	11
D. GRASSED SWALE		
(1) Design 15 (chock dams)	10%-20%	2
E. WATER QUALITY INLET		
(1) Design 11 (400 cu ft/imp. ac):	*	2

* To be used upstream of detention basin or infiltration system to enhance pollutant removal.

NOTE: A weighted total of 10 points is required for the development plan to achieve BMP compliance.

WORKSHEET FOR BMP POINT SYSTEM

TOTAL SITE AREA = 43,600 sf

A. STRUCTURAL BMP POINT ALLOCATION

<u>BMP</u>	<u>BMP POINTS</u>		<u>Fraction of Site Served by BMP</u>	=	<u>Weighted BMP Points</u>
Infiltration Trench # 10	11	X	.287	=	3.16
Dry Pond # # 3	6	X	.713	=	4.28
		X		=	
		X		=	

TOTAL WEIGHTED STRUCTURAL BMP POINTS: 7.44

B. NATURAL OPEN SPACE CREDIT

<u>Fraction of Site</u>		<u>Natural Open Space Credit</u>		<u>Points for Natural Open Space</u>
11,160 sf				
<u>.256</u>	X	<u>10</u>	=	<u>2.56</u>

C. TOTAL WEIGHTED POINTS

$$\frac{7.44}{\text{Structural BMP Points}} + \frac{2.56}{\text{Natural Open Space Points}} = \frac{10.0}{\text{TOTAL}}$$

Darryl Cook

From: Darryl Cook
Sent: Friday, August 28, 2009 2:27 PM
To: Rick Hall
Subject: Bryant Contracting WC008

I went to the site and met with Barry Bryant about the failed BMP. He was aware of it having fixed it 3 times before. He is going to address with the new site plan that he is going to be starting in the next couple of weeks. The water will be piped from this area to the new BMP he is building. But he is going to fix the BMP by replacing it with a sheet pile structure. I'm encouraging him to make it into at least a partial infiltration facility by elevating the outlet opening from the replacement structure off the bottom of the existing channel so that the lowest portion of the channel will not discharge but infiltrate. The soils are very sandy in this area which contributed to the failure of the facility. He plans to have the new BMP and the replacement BMP installed before the end of the year.

Darryl E. Cook

James City County - County Engineer
287 McLaws Circle, Suite 1
Williamsburg, VA 23185
Phone: 757-259-1442
Fax: 757-259-5833
email: decook@james-city.va.us

Date Record Created:

WS_BMPNO:

WC008

Print Form

Created By:

WATERSHED WC
 BMP ID NO 008
 PLAN NO SP-45-91
 TAX PARCEL (12-4)(37-A)
 PIN NO 1240370000A
 CONSTRUCTION DATE 4/23/1991
 PROJECT NAME Bryant Contracting
 FACILITY LOCATION 7754 Richmond Road
 CITY-STATE Toano, VA
 CURRENT OWNER Bryant Contracting, Inc.
 OWNER ADDRESS P.O. Box 1000
 OWNER ADDRESS 2
 CITY-STATE-ZIP CODE Toano, VA 23168
 OWNER PHONE
 MAINT AGREEMENT No
 EMERG ACTION PLAN No

PRINTED ON:
Friday, March 12, 2010
11:59:01 AM

MAINTENANCE PLAN No
 SITE AREA acre 6.8
 LAND USE Commercial
 old BMP TYP Dry Pond
 JCC BMP CODE F2 Dry ED with forebay
 POINT VALUE 10

SVC DRAIN AREA acres 3.6

SERVICE AREA DESCRI 71.3% of site served by pond

IMPERV AREA acres 1.00

RECV STREAM UT of Ware Creek

EXT DET-WQ-CTRL No

WTR QUAL VOL acre-ft 0.1

CHAN PROT CTRL No

CHAN PROT VOL acre-ft 0

SW/FLOOD CONTROL No

GEOTECH REPORT No

CTRL STRUC DESC

CTRL STRUC SIZE inches

OTLT BARRL DESC RCP

OTLT BARRL SIZE inch 15

EMERG SPILLWAY No

DESIGN HW ELEV

PERM POOL ELEV

2-YR OUTFLOW cfs 5.13

10-YR OUTFLOW cfs

REC DRAWING No

CONSTR CERTIF No

LAST INSP DATE 12/7/2001 Inspected by:

INTERNAL RATING 3

MISC/COMMENTS

BMP 1 of 2.

Get Last BMP No

Return to Menu

Additional Comments:

