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: **YR002**

DATE VERIFIED: **April 18, 2012**

QUALITY ASSURANCE TECHNICIAN: **Leah Hardenbergh**

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA

Stormwater Division

MEMORANDUM

DATE: March 10, 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: YR002

PIN: 2320100042

Subdivision, Tract, Business or Owner Name (if known): Dodson, John E

Property Description: Automobile Dealership

Site Address: 7277 Richmond Road

(For internal use only) **Box** 9 **Drawer:** 5

Agreements: (in file as of scan date) **N** **Book or Doc#:** **Page:**

Comments

WILLIAMSBURG HONDA SHOWROOM

LAND USE STATISTICS

EXISTING BUILDING COVERAGE	15,650 S.F.	0.36 AC.	
PROPOSED BUILDING COVERAGE	3,600 S.F.	0.08 AC.	
TOTAL BUILDING COVERAGE	19,250 S.F.	0.44 AC.	11.8%
AREA OF PAVEMENT	92,368 S.F.	2.12 AC.	56.7%
AREA OF OPEN SPACE	51,409 S.F.	1.18 AC.	31.5%
AREA OF EXISTING SITE	119,903 S.F.	2.75 AC.	
AREA OF PROPOSED SITE	43,124 S.F.	0.99 AC.	
TOTAL SITE AREA	163,027 S.F.	3.74 AC.	100%

GENERAL NOTES

1. PROPERTY IS CURRENTLY ZONED B-1.
2. THE SITE IS TAX PARCELS (23-2) (1-42) AND (1-40)
3. ADDRESS OF EXISTING BUILDING IS 7277 AND 7293 RICHMOND ROAD.
4. ALL PARKING SPACES DESIGNATED AS CUSTOMER OR EMPLOYEE PARKING SHALL BE CLEARLY MARKED IN THE FIELD WITH SIGNS OR WITH PAINT ON THE CURB FACE.
5. SEWER AND WATER SERVICE TO BE PROVIDED IN ACCORDANCE WITH THE CURRENT J.C.S.A. STANDARDS AND SPECIFICATIONS.

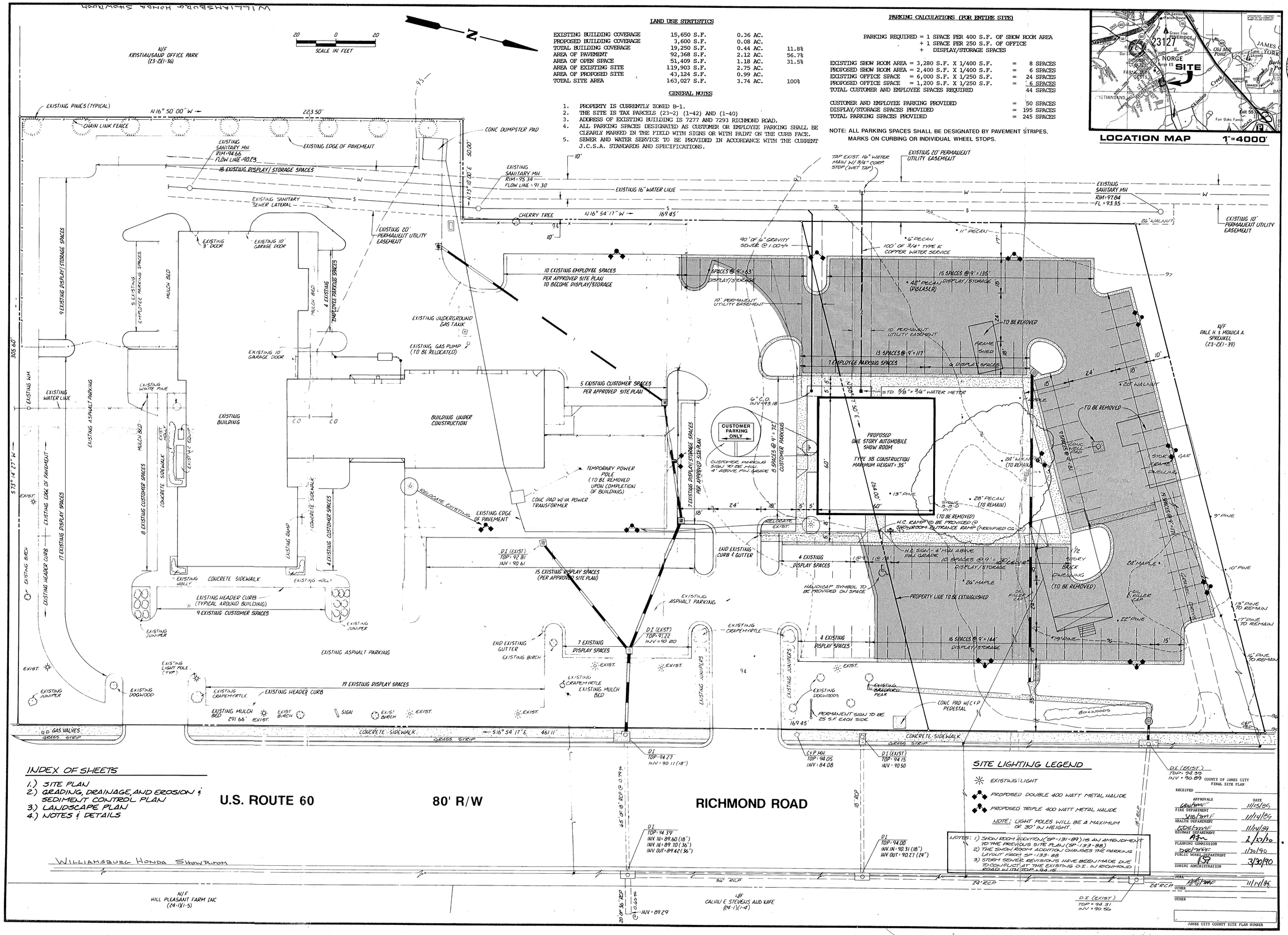
PARKING CALCULATIONS (FOR ENTIRE SITE)

PARKING REQUIRED = 1 SPACE PER 400 S.F. OF SHOW ROOM AREA
+ 1 SPACE PER 250 S.F. OF OFFICE
+ DISPLAY/STORAGE SPACES

EXISTING SHOW ROOM AREA = 3,280 S.F. X 1/400 S.F.	=	8 SPACES
PROPOSED SHOW ROOM AREA = 2,400 S.F. X 1/400 S.F.	=	6 SPACES
EXISTING OFFICE SPACE = 6,000 S.F. X 1/250 S.F.	=	24 SPACES
PROPOSED OFFICE SPACE = 1,200 S.F. X 1/250 S.F.	=	6 SPACES
TOTAL CUSTOMER AND EMPLOYEE SPACES REQUIRED		44 SPACES
CUSTOMER AND EMPLOYEE PARKING PROVIDED	=	50 SPACES
DISPLAY/STORAGE SPACES PROVIDED	=	195 SPACES
TOTAL PARKING SPACES PROVIDED	=	245 SPACES

NOTE: ALL PARKING SPACES SHALL BE DESIGNATED BY PAVEMENT STRIPES, MARKS ON CURBING OR INDIVIDUAL WHEEL STOPS.

LOCATION MAP 1"=4000'



INDEX OF SHEETS

1.) SITE PLAN
2.) GRADING, DRAINAGE, AND EROSION & SEDIMENT CONTROL PLAN
3.) LANDSCAPE PLAN
4.) NOTES & DETAILS

No.	DATE	REVISION / COMMENT / NOTE	BY
1	1/15/90	REVISED PER VDOT COMMENTS	

RECEIVED JAN 1990

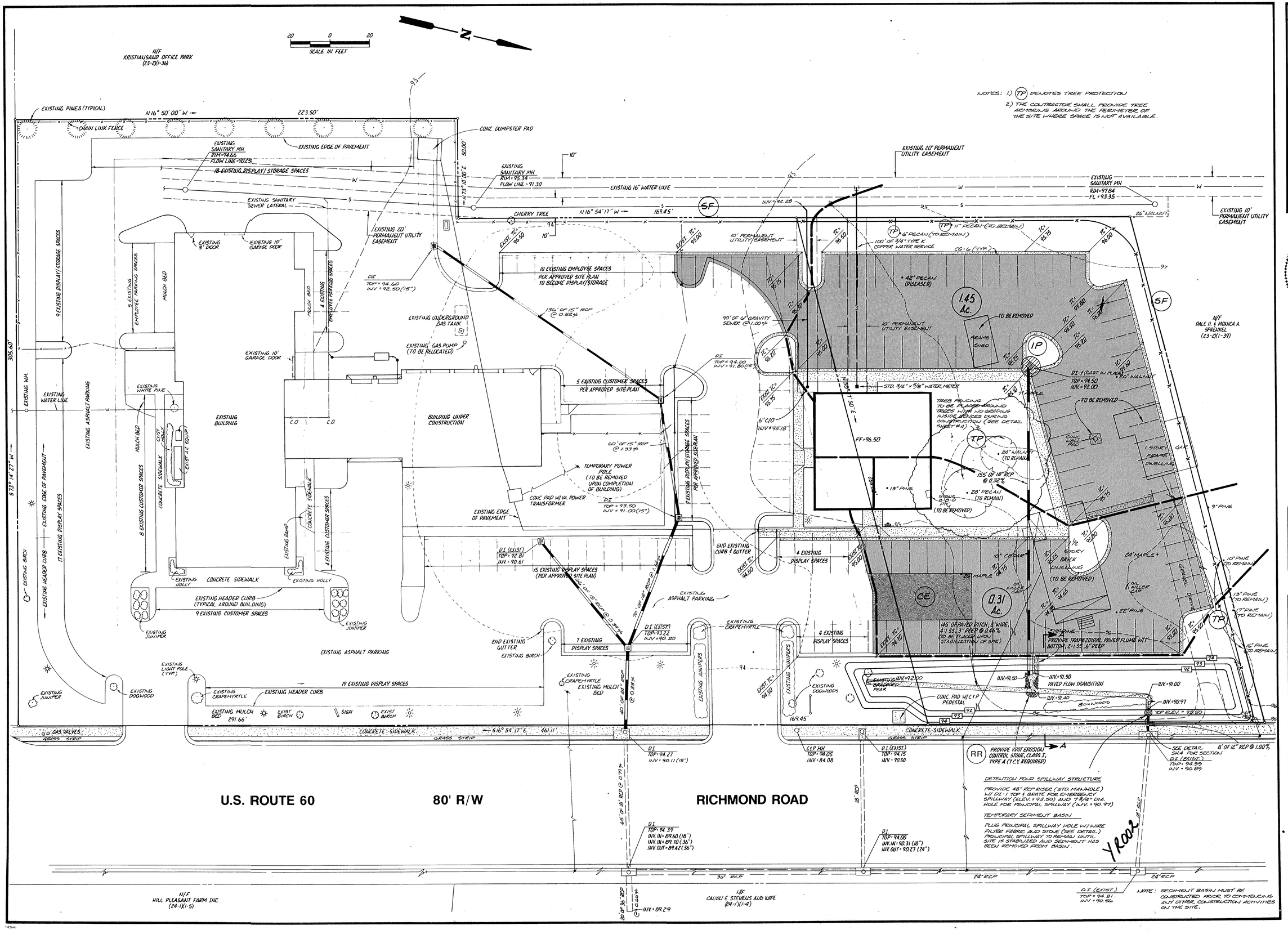
COMMONWEALTH OF VIRGINIA — G. ARCHER MARSTON III — No. 018232 — PROFESSIONAL ENGINEER

AES, a professional corporation
5248 Olde Towne Road, Suite 1
Williamsburg, Virginia 23185
(804) 253-0040
Engineering, Planning, Surveying

SITE PLAN
WILLIAMSBURG HONDA SHOW ROOM ADDITION
OWNER/DEVELOPER: J&J ASSOCIATES
JAMES CITY COUNTY VIRGINIA

Designed GAM	Drawn BJU
Scale 1"=20'	Date SEPT., 1989
Project No. 2083-3	
Drawing No. 1	

YR002_WILLIAMSBURG_HONDA - 003



No.	DATE	REVISION / COMMENT / NOTE	BY
1	11/14/90	REVISED PER J.C.C. COMMENTS	WWR

COMMONWEALTH OF VIRGINIA
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GRADING, DRAINAGE AND EROSION & SEDIMENT CONTROL PLAN

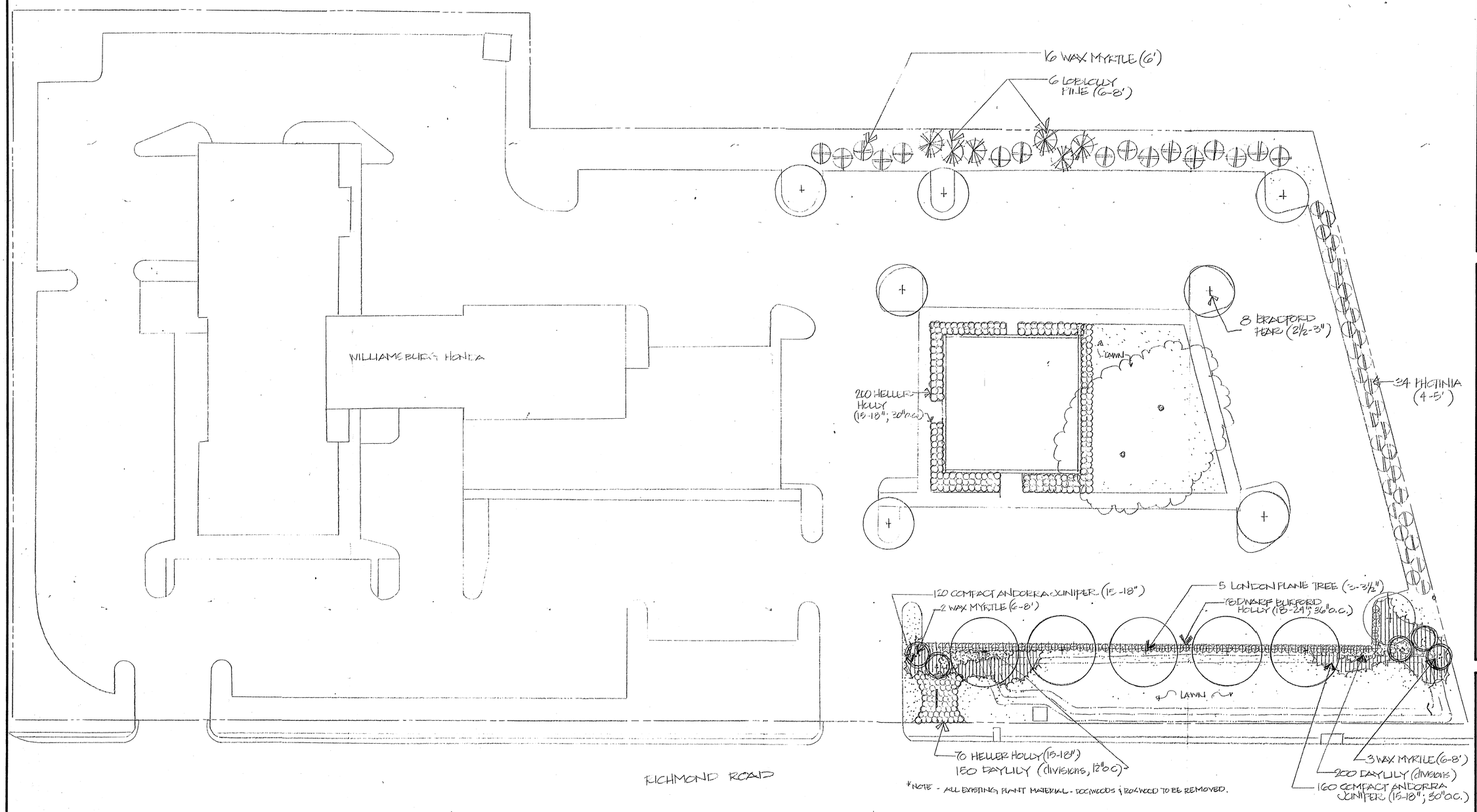
WILLIAMSBURG HONDA SHOW ROOM ADDITION

OWNER/DEVELOPER: J&J ASSOCIATES

JAMES CITY COUNTY VIRGINIA

Designed GAM	Drawn BJU
Scale 1"=20'	Date SEPT., 1989
Project No. 2083-3	
Drawing No. 2	

YR002_WILLIAMSBURG_HONDA - 004



*NOTE - ALL EXISTING PLANT MATERIAL - DOGWOODS & ROCKWOOD TO BE REMOVED.

COMMONWEALTH OF VIRGINIA
PAUL E. GAREAU
NO. 007
REGISTERED LANDSCAPE ARCHITECT

James River Nurseries, Inc.
P.O. BOX 29803 · RICHMOND, VIRGINIA · (804) 741-4166

LANDSCAPE PLAN
WILLIAMSBURG JEEP/EAGLE
RICHMOND, VA
JAMES CITY COUNTY, VA.

DATE:
SCALE: 1"=20'0"
DRAWN/CHECKED BY: TD
PROJECT NUMBER:
REVISIONS: 12-29-89

3

AES JOB NO. 2083-3

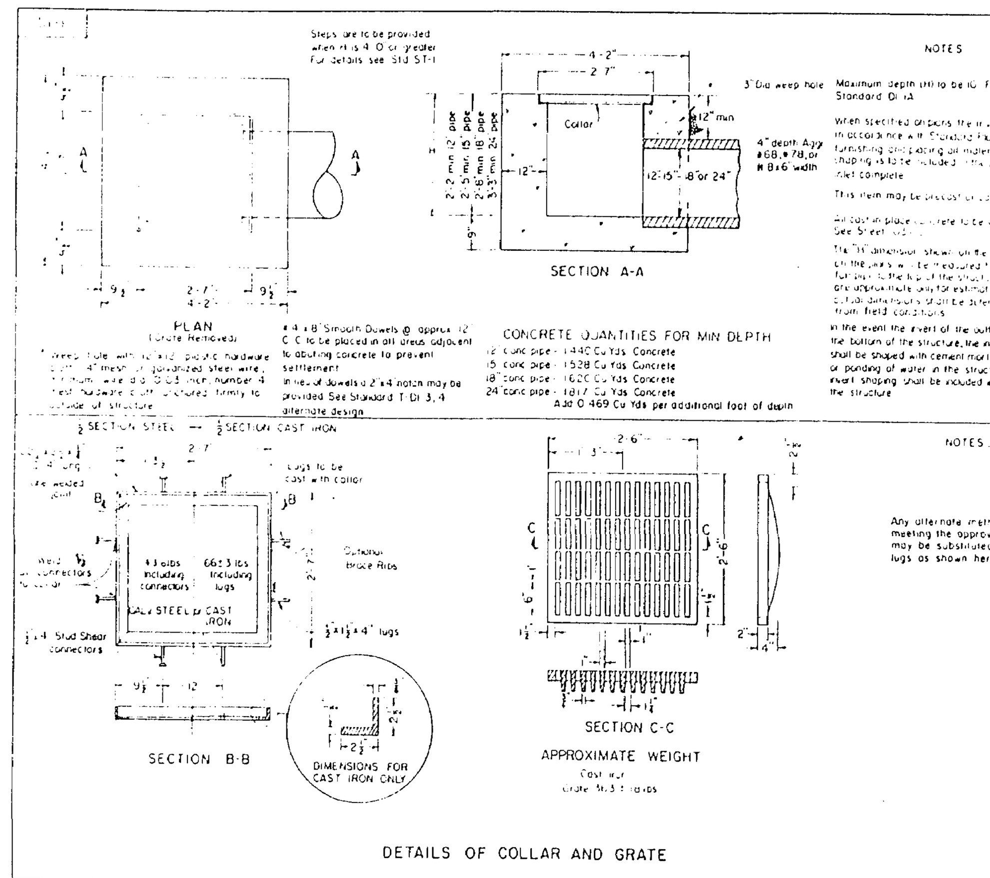
POD NUMBER:

YR002_WILLIAMSBURG_HONDA - 005

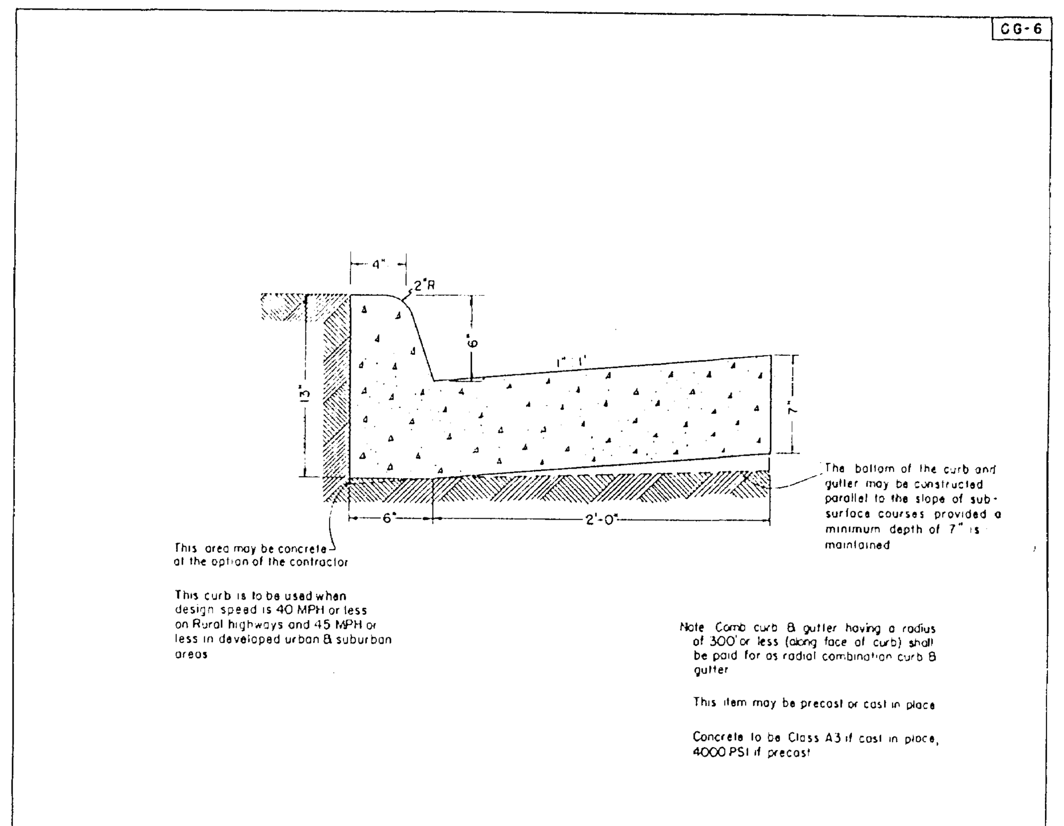
EROSION AND SEDIMENT CONTROL NOTES

The purpose of the erosion control measures shown on these plans shall be to preclude the transport of all waterborne sediments resulting from construction activities from entering onto adjacent properties or State waters. If field inspection reveals the inadequacy of the plan to confine sediment to the project site, appropriate modifications will be made to correct any plan deficiencies.

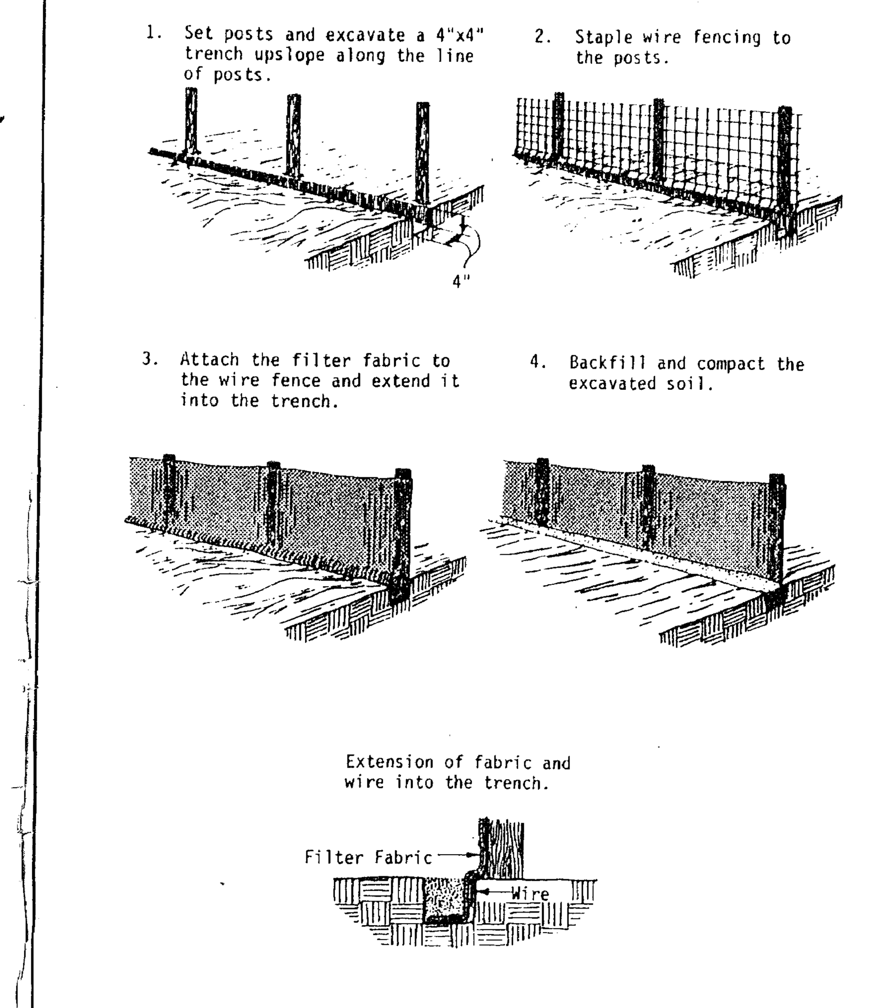
1. All erosion and sediment control measures shall be installed and maintained in accordance with the "Virginia Erosion and Sediment Control Handbook". The contractor shall be thoroughly familiar with all applicable measures contained therein which may be pertinent to this project.
2. All points of construction 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.
3. 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 upslope land disturbance takes place. Earthen structures such as dams, dikes, and diversions must be seeded and mulched with 15 days of installation. An on-site pre-construction meeting will be held between the Department of Public Works and the Contractor to identify those measures to be initially installed.
4. 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 Public Works with the name of the individual who will be responsible for ensuring maintenance of installed measures on a daily basis.
5. Surface flows over cut and fill slopes shall be controlled by either redirecting flows from transversing the slopes or by installing mechanical devices to safely lower water downslope without causing erosion. A temporary fill diversion (Std. & Spec. 1.16) shall be installed prior to the end of each working day.
6. Sediment control measures may require minor field adjustments at time of construction to insure their intended purpose is accomplished. Department of Public Works approval will be required for other deviations from the approved plans.
7. 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.
8. The contractor shall complete drainage facilities within 30 days following completion of rough grading at any point within the project. The installation of drainage facilities shall take precedence over all underground utilities. Outfall ditches from drainage structures shall be stabilized immediately after construction of same. This includes installation of erosion control stone where required. Any drainage outfalls required for a street must be completed before street grading begins.
9. Permanent or temporary soil stabilization must be applied to all denuded areas within 15 days after final grade is reached on any portion of the site. Soil stabilization must also 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.
10. No more than 300' of sanitary sewer, storm sewer, or waterlines are to be open at one time. Following installation of any portion of these items, all disturbed areas are to be immediately stabilized (i.e., the same day).
11. If disturbed area stabilization is to be accomplished during the months of December, January, or February, stabilization shall consist of mulching in accordance with Specification 1.75. Seeding will then take place as soon as the season permits.
12. The term Seeding, Final Vegetative Cover or Stabilization, on this site 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 1.66, Permanent Seeding. Irrigation shall be required as necessary to ensure establishment of grass cover.
13. All slopes steeper than 3:1 shall require the use of erosion control blankets such as excelsior blankets to aid in the establishment of a vegetative cover. Installation shall be in accordance with Specification 1.75, Mulching and Manufacturer's Instructions.
14. Inlet protection in accordance with Specification 1.08 shall be provided for all storm drain inlets as soon as practical following construction of same.
15. Temporary liners, such as polyethylene sheets, shall be provided for all paved ditches until the permanent concrete liner is installed.
16. Paved ditches shall be required wherever erosion is evident. Particular attention shall be paid to those areas where grades exceed 3%.
17. 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.
18. Off-site waste or borrow areas shall be approved by James City County prior to the import of any borrow or export of any waste to or from the project site.
19. All paved and/or piped outfalls will be constructed before road grading and utility installation begins.



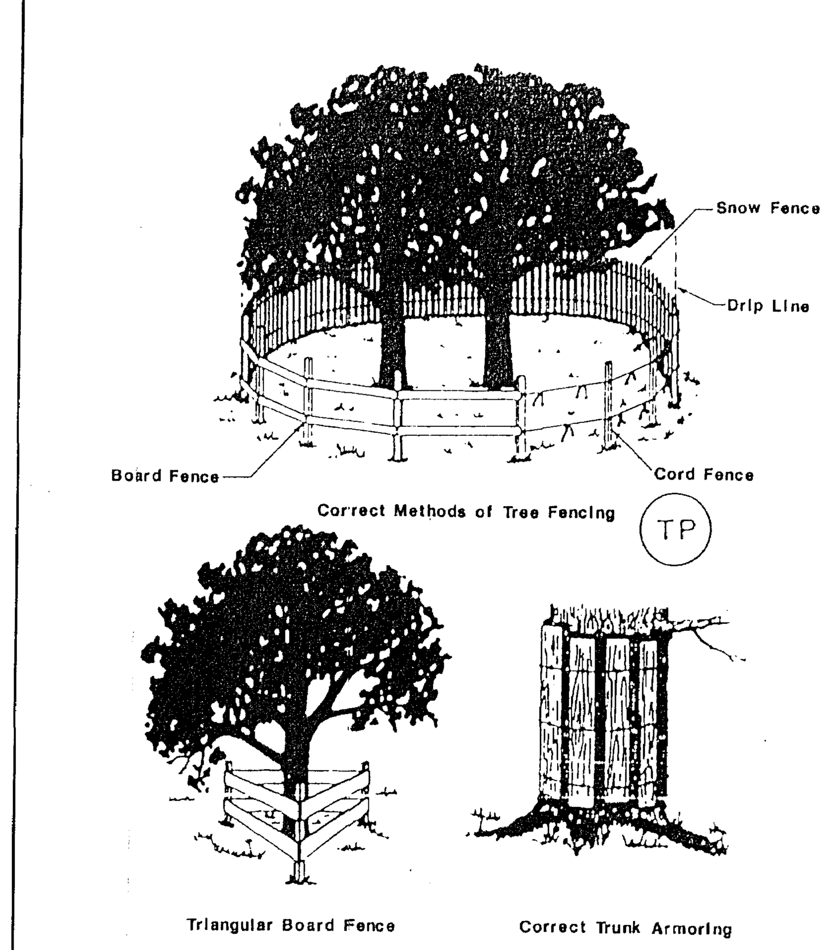
STANDARD DROP INLET
12"-24" PIPE MAXIMUM DEPTH (H)=10'
VIRGINIA DEPARTMENT of TRANSPORTATION
SPECIFICATION REFERENCE 241 503 — 104.01



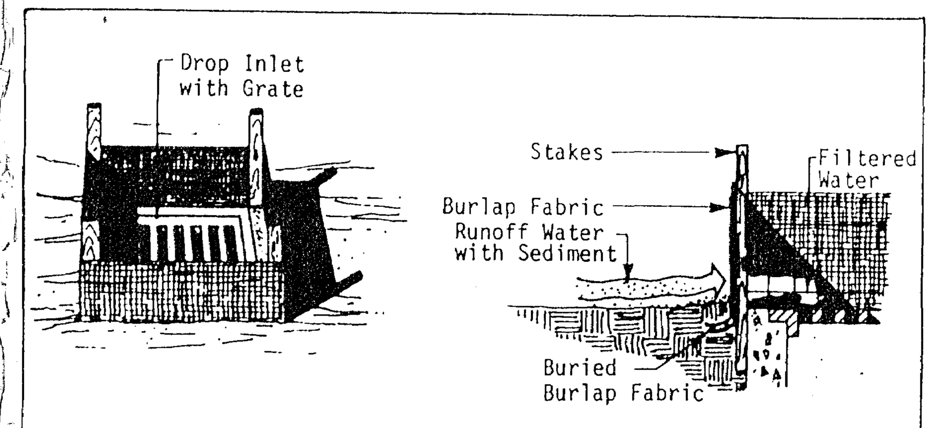
COMBINATION 6" CURB & GUTTER
VIRGINIA DEPARTMENT of TRANSPORTATION
SPECIFICATION REFERENCE 105.04 502 — 201.03



(SF) CONSTRUCTION OF A SILT FENCE

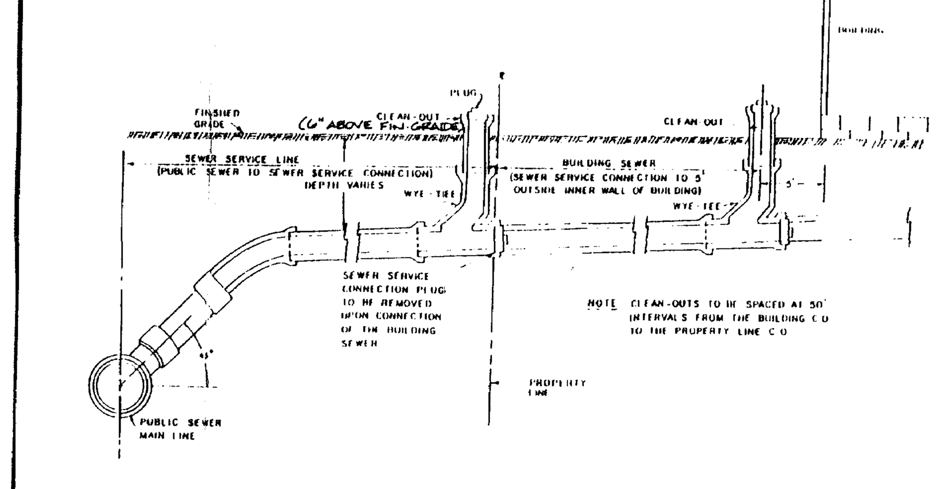


FENCING AND ARMORING

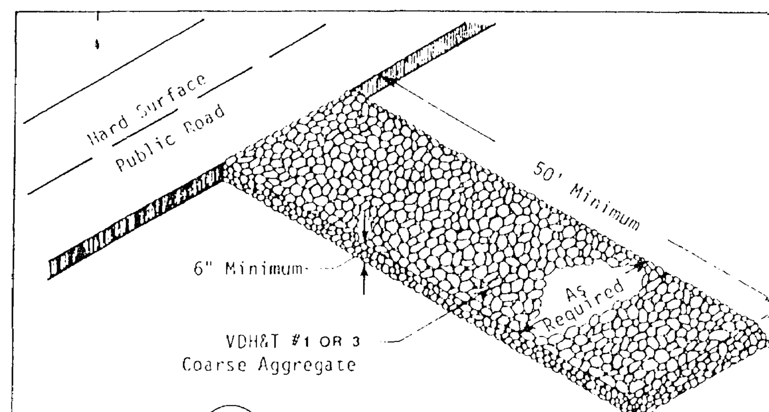


Specific Application
This method of inlet protection is applicable where the inlet drains a relatively flat area (slopes no greater than 5 percent) where sheet or overland flows (not exceeding 0.5 cfs) are typical. The method shall not apply to inlets receiving concentrated flows, such as in street or highway medians.

BURLAP DROP INLET SEDIMENT FILTER (IP)

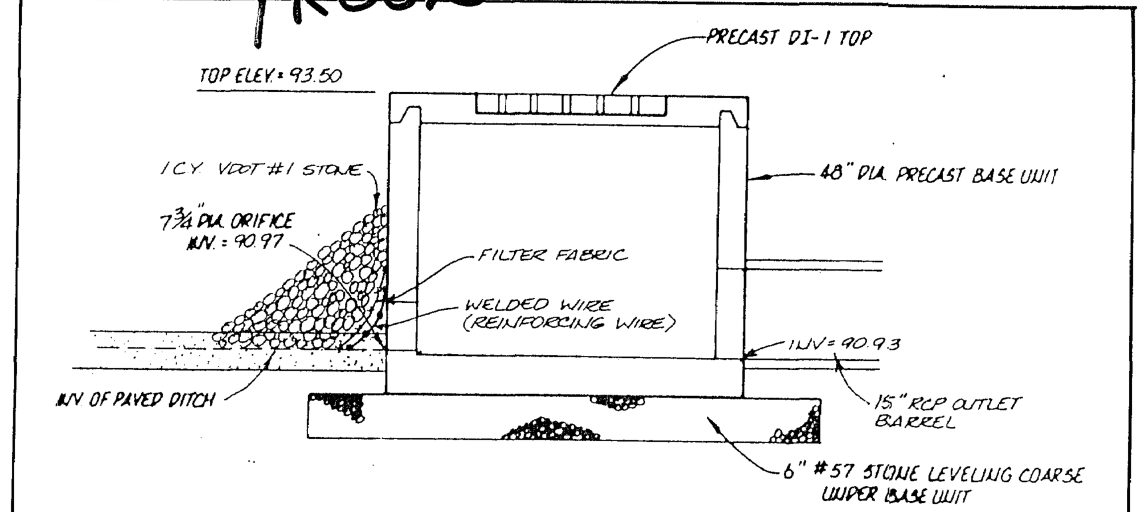


TYPICAL SEWER SERVICE

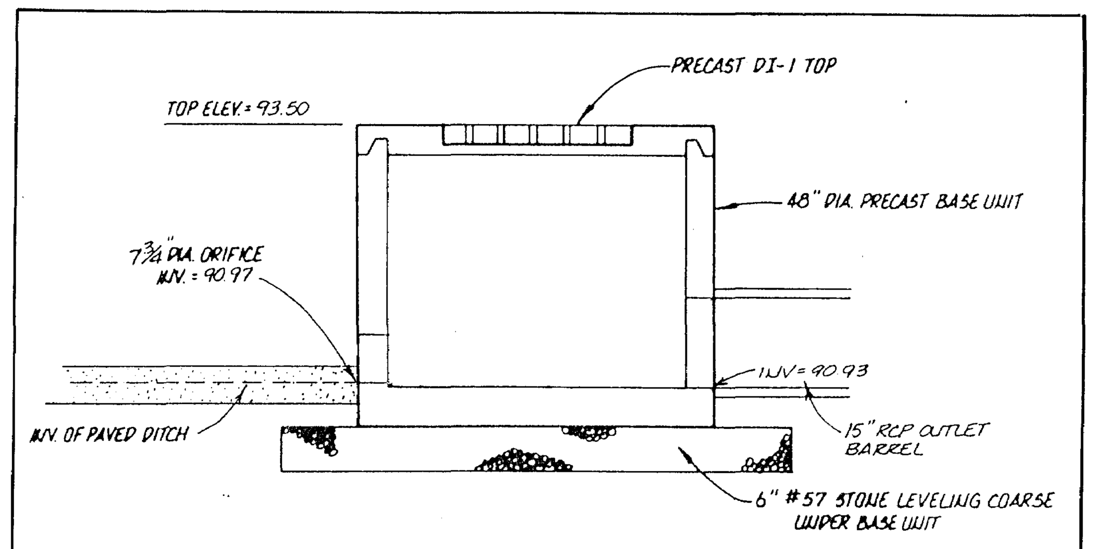


(CE) GRAVEL CONSTRUCTION ENTRANCE

YR002

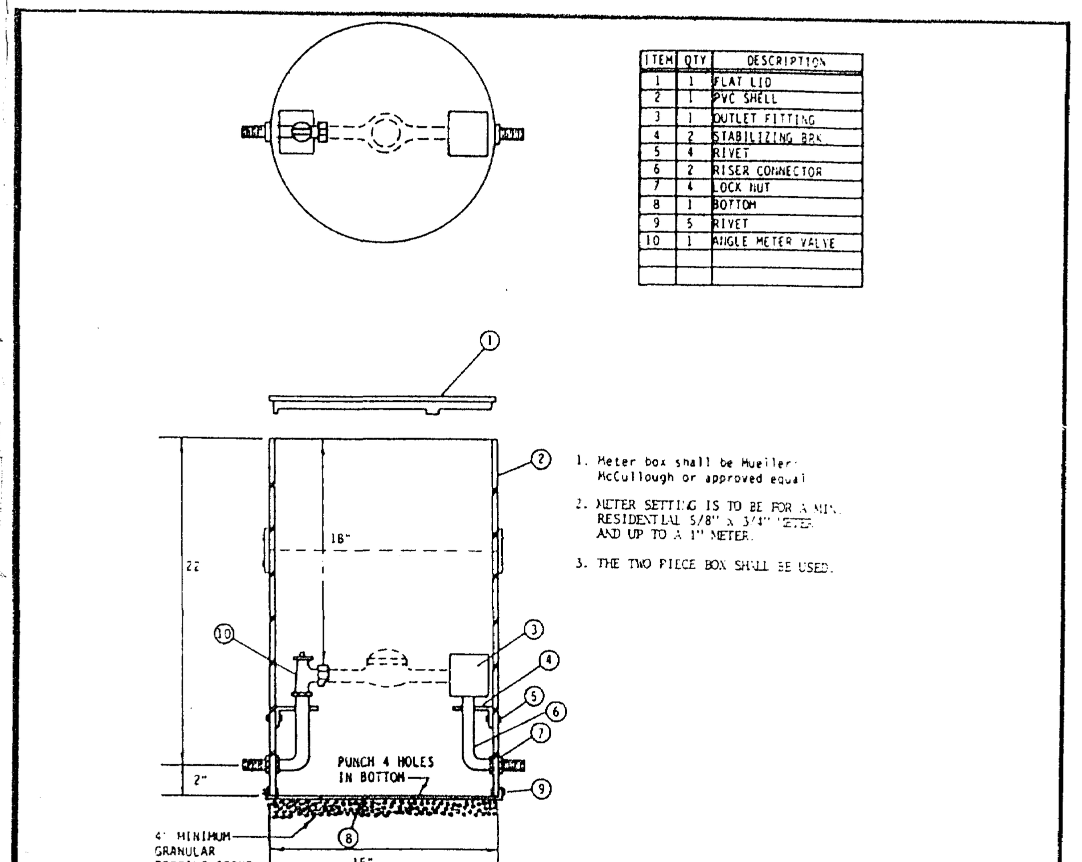


TEMPORARY SEDIMENT BASIN SPILLWAY SECTION
N.T.S.



PRINCIPAL/EMERGENCY SPILLWAY SECTION
NOT TO SCALE

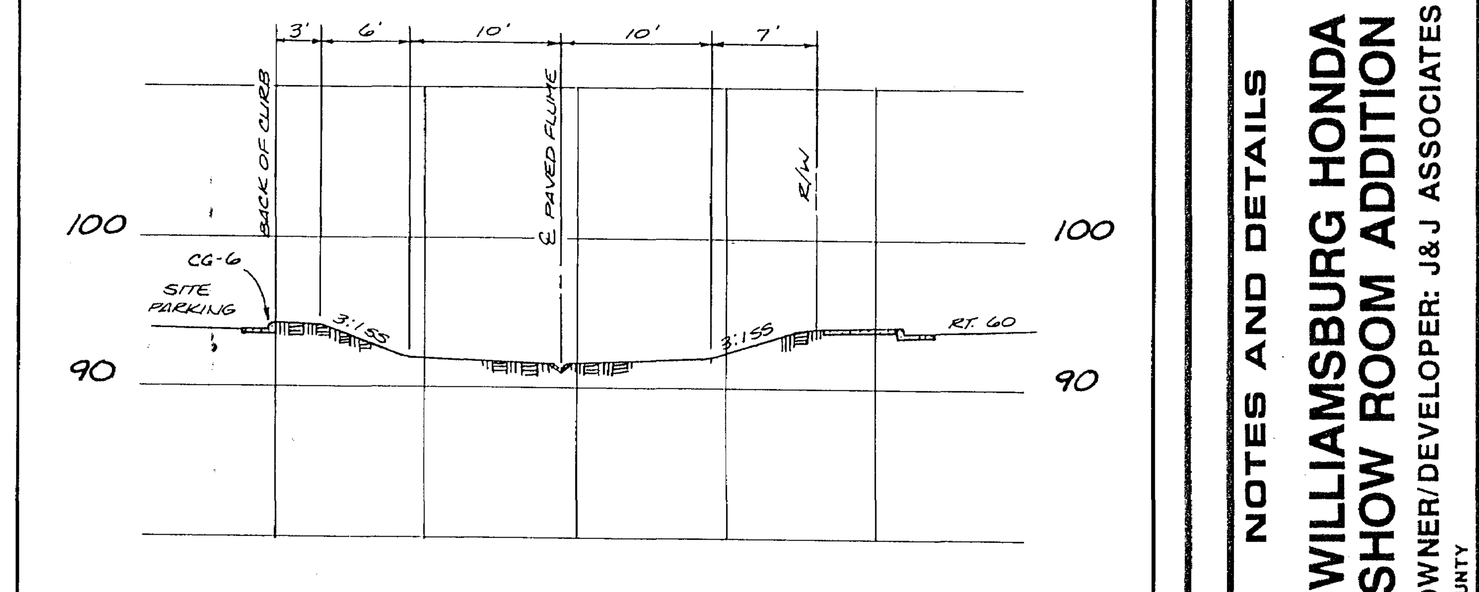
YR002



ITEM	QTY	DESCRIPTION
1	1	FLAT LID
2	1	PVC SHELL
3	1	OUTLET FITTING
4	2	STABILIZING BRK
5	4	RIVET
6	2	RISER CONNECTOR
7	4	LOCK NUT
8	1	BOTTOM
9	5	RIVET
10	1	ANGLE METER VALVE

1. Meter box shall be Mueller-McCullough or approved equal
2. METER SETTING IS TO BE FOR A MIN. RESIDENTIAL 5/8" x 3/4" METER AND UP TO A 1" METER.
3. THE TWO PIECE BOX SHALL BE USED.

TYPICAL METER SETTING, 5/8", 3/4", 1"



SEDIMENT BASIN
SECTION A-A
SCALE: 1" = 10' HORIZ.
1" = 10' VERT.

No.	DATE	REVISION / COMMENT / NOTE	BY
1	1/15/90	REVISED PER JCC COMMENTS	HWP

COMMONWEALTH OF VIRGINIA
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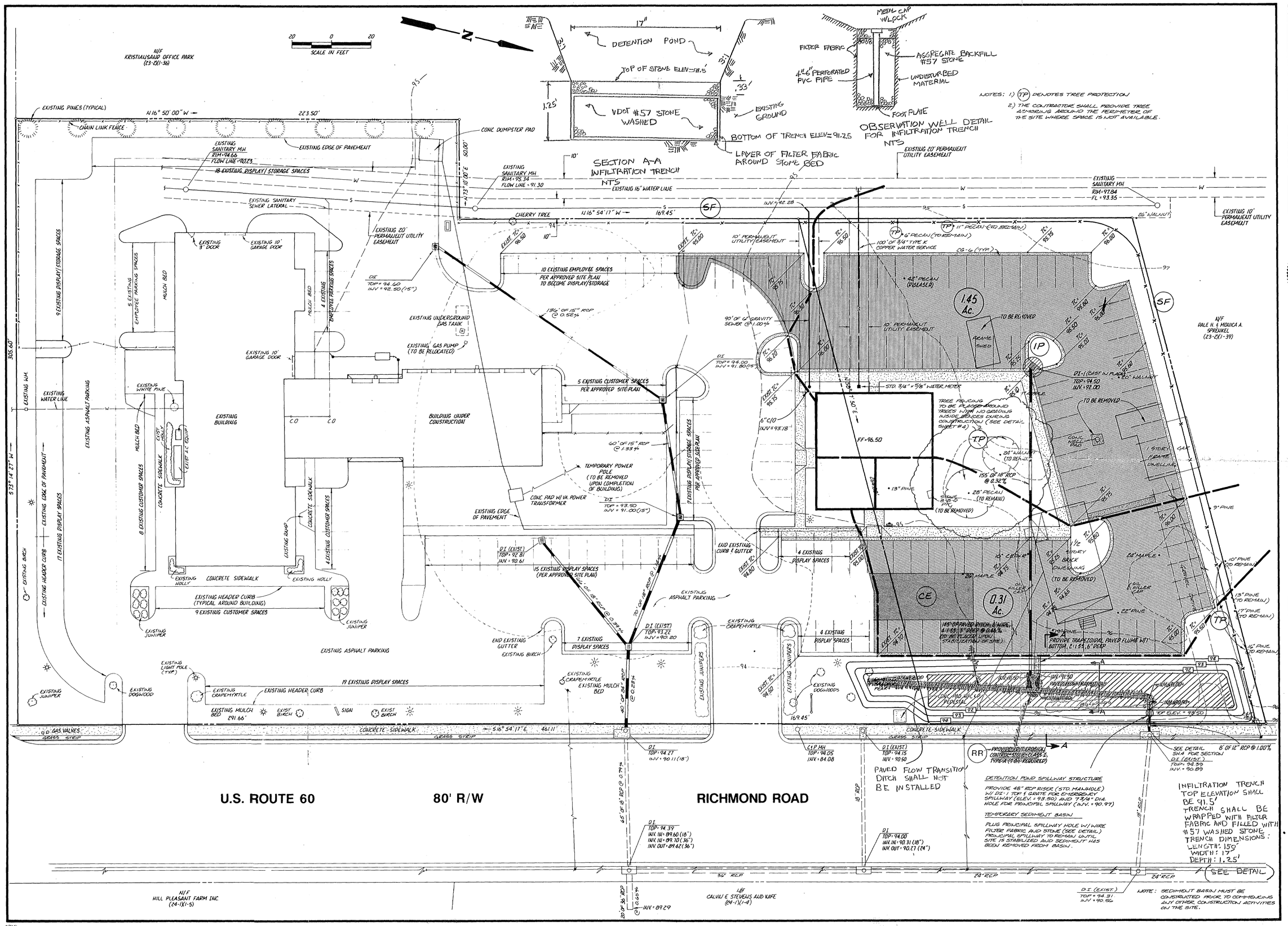
Engineering, Planning, Surveying

NOTES AND DETAILS
WILLIAMSBURG HONDA SHOW ROOM ADDITION
OWNER/DEVELOPER: J&J ASSOCIATES
JAMES CITY COUNTY VIRGINIA

Designed	Drawn
—	—
Scale NOTED	Date NOV.,1989
Project No. 2083-3	
Drawing No. 4	

N25640



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1	1/15/90	REVISED PER J.C.C. COMMENTS	WWP

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(804) 253-0040
Engineering, Planning, Surveying

RECEIVED
MAY 1990
CODE COORDINATOR OFFICE
VIRGINIA

GRADING, DRAINAGE AND EROSION & SEDIMENT CONTROL PLAN

WILLIAMSBURG HONDA SHOW ROOM ADDITION

OWNER/DEVELOPER: J&J ASSOCIATES

JAMES CITY COUNTY

Designed	Drawn
GAM	BJU
Scale	Date
1"=20'	SEPT., 1989
Project No.	
2083-3	
Drawing No.	
2	

YR002

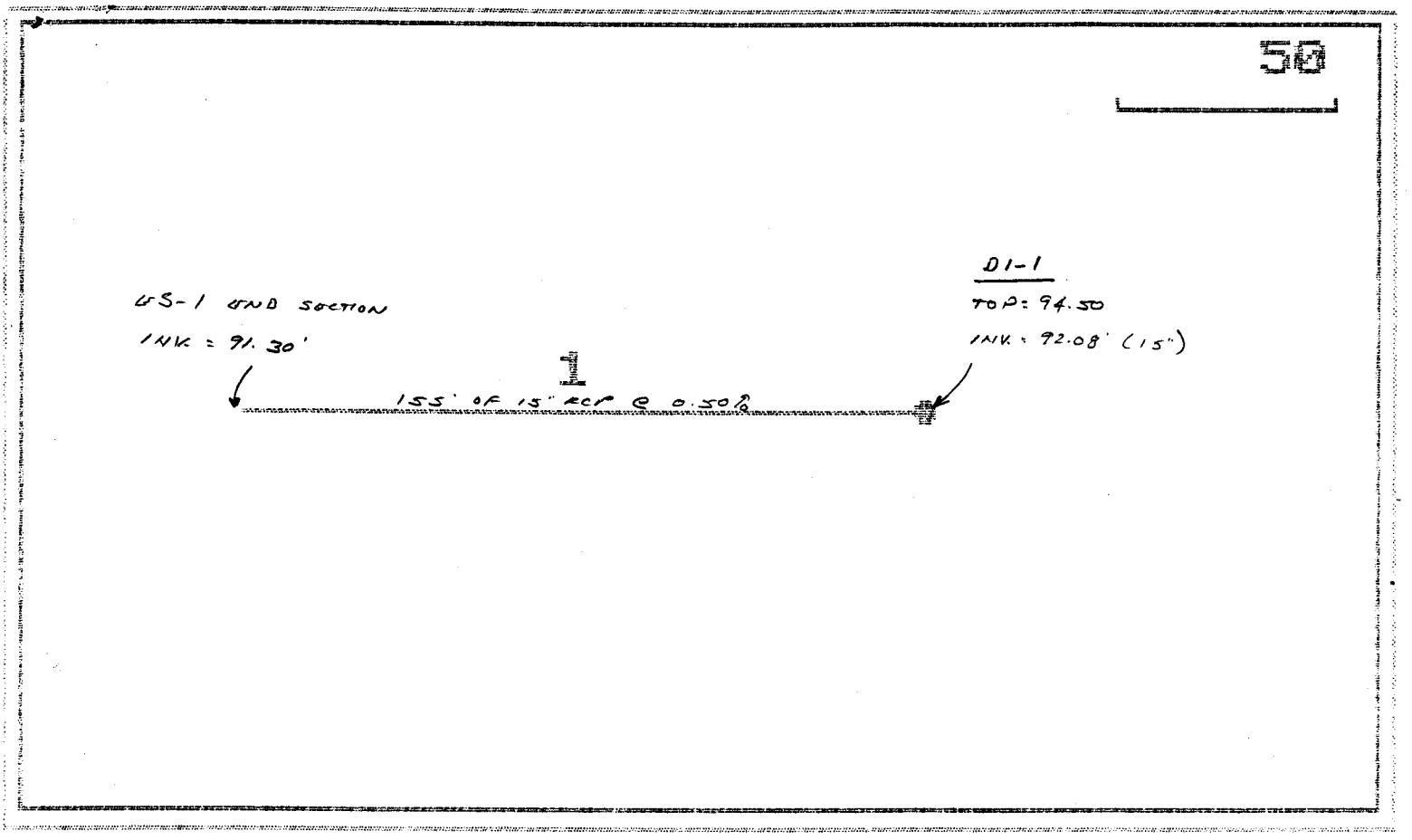
WILLIAMSBURG HONDA

SHOW ROOM ADDITION

DRAINAGE CALCULATIONS

2083-3 11/8/89

ABS, a PROFESSIONAL CORPORATION
HOWARD PRICE



[← ↑ → ↓] Move [Spc] #'s [Home] Reset

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HYDRAULIC ANALYSIS

Run date: 10-27-1989
File: 2083-3.GT3

Return Period = 2 Yrs
Rainfall file: James City County

LINE 1 / Q = 4.6 / HT = 15 / WID = 15 / N = .013 / L = 155 / JLC = .9

..... / Outfall

	HGL	DEPTH	INVERT	VEL	EGL	T WID	COVER	AREA
DNSTRM	92.37	12.87	91.30	4.09	92.63	10.13	0	1.13
UPSTRM	93.36	12.30	92.08	4.30	93.65	11.53	1.16	1.08

Drainage area (ac) =	1.45	Slope of invert (%)	= 0.503
Runoff coefficient =	.7	Slope energy grade line (%)	= 0.489
Time of conc (min) =	10	Critical depth (in)	= 10.76
Inlet time (min) =	10	Req'd length curb inlet (ft)	= 0.0
Intensity (in/hr) =	4.56	Req'd grate area (sf)	= 0.0
Cumulative C*A =	1.0	Depth at inlet opening (in)	= 0
Flow contrib (cfs) =	4.6	Confluence angle (deg)	= 0
Default Q (cfs) =	0	Natural ground elev (ft)	= 94.5
Line capac. (cfs) =	4.6	Line storage (cuft)	= 171

PAVED FLUME

8' OF PAVED FLUME @ 28.00%

$Q_2 = (0.90)(4.50)(0.31) = 1.26$ CFS $V_2 \approx 7.5$ FPS $D_2 \approx 1.2''$

INV. @ GUTTER = 93.75'

INV. INTO DITCH = 91.50'

TRY TRAPEZOIDAL DITCH W/ 1' BOTTOM, 2:1 SS, 6" DEEP (TOTAL 3' WIDE)

$Q_{10} = 5.9 \times .7 \times 1.45 = 5.98$ cfs

– use 18" pipe or 15" pipe @ 0.9%

WMBG HONDA SHOWROOM ADDITION #2083-3 1)

BASIN SIZING

- DESIGN BASIN TO RELEASE 2 yr PRE-DEVELOPMENT DISCHARGE AND STORE 25 yr POST DEVELOPMENT STORM VOLUME.

D.A. TO BASIN = 2.25 Ac.

PRE-DEVELOPMENT

$c = 0.30$ $t_c = 20$ MIN $I_2 = \frac{a}{b_2 + t_c}$

$a_2 = 126.3$ $b_2 = 17.3$

$I_2 = \frac{126.3}{17.3 + 20} = 3.39$ $Q_2 = CI_2A = (0.30)(3.39)(2.25) = 2.29$ cfs $= q_o$

$Q_{10} = .3 \times 4.5 \times 2.25 = 3.0$ cfs $Q_{25} = .3 \times 5.35 \times 2.25 = 3.6$ cfs

$_{pre}I_{25} = \frac{240.3}{24.9 + 20} = 5.35$

POST-DEVELOPMENT

- CRITICAL STORM DURATION (T_c) DURING 25 yr. STORM. $Q_{25\,pre}$ =

$c = (0.9)(.40) + (0.3)(0.60) = 0.54$ $a_{25} = 240.3$ $b_{25} = 24.9$

t_c = 8 MIN OVERLAND + 2 MIN PIPE FLOW = 10 MIN.

$$T_c = \sqrt{\frac{2CA_a(b - t_c/4)}{q_o}} - b = \sqrt{\frac{2(0.54)(2.25)(240.3)[24.9 - 10/4]}{2.29}} - 24.9$$

T_c = 55.42 MIN

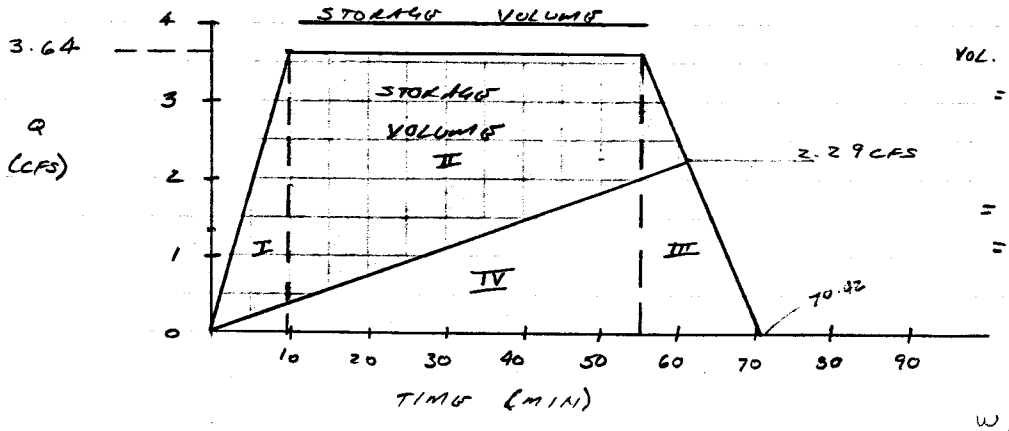
VOL Q_{10} = 4570 ft^3

SOLVE q_o USING CRITICAL STORM DURATION check 50 yr control

$$Q_o = (0.54)(2.25)\left(\frac{240.3}{24.9 + 55.42}\right) = 3.64 \text{ cfs}$$

$60 \cdot ((q_o \cdot T_c) + (Q_o \cdot t_c) - (\text{Rel Rate} \cdot T_c) \text{ Rel Rate} \cdot t_c$

STORAGE VOLUME



VOL. = I + II + III − IV

$= [\frac{1}{2}(10)(3.64) + (45.42)(3.64) + \frac{1}{2}(15)(3.64) - \frac{1}{2}(70.42)(2.29)]\,60$

$= [18.2 + 165.33 + 27.3 - 80.63]\,60$

$= (130.20)(60) = 7{,}812$ CF ✓

$= 289$ CY

8500 CF PROVIDED @ 93.50'.

w/approx - Vs = 5900 ft^3 - Q_{25}

$$V = \left[(3.64)(55.42) + \frac{(3.64)(10)}{4} - \frac{(2.29)(55.42)}{2} - \frac{3(2.29)(10)}{4}\right]60 = 7812 \text{ CF} = 289 \text{ CY}$$

for 50 yr - $Q_{50\,pre}$ = 6.03 × 2.25 × .3 = 4.1 cfs

$Q_{50\,post}$ = 7.29 × 2.25 × .54 = 8.8 cfs

Vol Stor = 7230 ft^3

- SIZE OUTLET DEVICE WHICH WILL PASS q_o = 2.29 CFS

12" RCP CARRIES TOO MUCH

- USE ORIFICE PLATE WITH HEAD = 2.5 FT.

$q_o = c_o a_o \sqrt{2gh}$ $q_o = 2.29$ CFS $c_o = 0.6$ $g = 32.2$ FT/SEC^2

$2.29 = (0.6) a_o \sqrt{2(32.2)(2.5)}$ $a_o = 0.3008$ SQ. FT.

$d = \sqrt{\frac{4}{\pi}(0.3008)}$ $d = 0.6189$ FT. = 7.43 IN.

ACTUAL HEAD = 2.5 - 0.62/2 = 2.19 FT.

$a_o = \frac{2.29}{(0.6)\sqrt{2(32.2)(2.19)}} = 0.3214$ SQ. FT.

$d = \sqrt{\frac{4}{\pi}(.3214)}$ $d = 0.6397$ FT = 7.7 IN.

- NEED CIRCULAR ORIFICE WITH DIAMETER OF 7.7 IN. FOR OUTFLOW DEVICE

USE RISER STRUCTURE WITH 7.7 IN HOLE FOR ORIFICE
SIZE RISER TO CARRY 25 YR. POST-DEVELOPMENT

Q_o = 3.64 CFS USE PLATE 1.264

USE 48" CMP RISER WITH NORMAL DI-1 TOP
CARRIES Q_o = 3.64 CFS WITH 0.21' OF HEAD.

THUS, PLUG HOLE DURING CONSTRUCTION AND YOU HAVE DETENTION BASIN WHICH IS ADEQUATE FOR 25 YR. STORM.

1) Q_{25} reduced to 2 yr pre - 7800 ft^3
2) Q_{50} post reduced to Q_{50} pre - 7230 ft^3

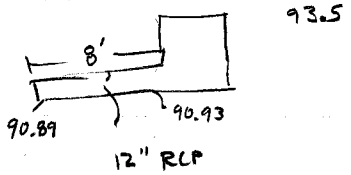
provided - 8500 ft^3 ok

check release structure.

12" RCP w/ H = 2.1' Q = 4.5 x 1.3 = 5.85

$Q = CLH^{3/2}$
$= 3.1 \times [4+2] (.2)^{3/2} = 1.67$ cfs

Total rel = 3.95



12" RCP
@ 1% .005 or .5%

2083-3
4-29-9
ELA

INFILTRATION TRENCH DESIGN
FOR WILLIAMSBURG HONDA SHOW-ROOM ADDITION

WATERSHED DRAINAGE AREA = 1.76 AC
IMPERVIOUS AREA IN WATERSHED = .68 AC

WATER QUALITY WILL BE ACHIEVED BY ADDING A DESIGN TYPE 8 INFILTRATION TRENCH AT THE BOTTOM OF THE DETENTION POND TO EFFECTIVELY REMOVE 50% OF THE TOTAL PHOSPHORUS FROM THE RUNOFF.

THE REQUIRED INFILTRATION VOLUME IS (0.5 IN/IMP. AC)

$$\therefore \quad V = 0.5 \text{ IN } (.68 \text{ AC}) \left(\frac{43560 \text{ FT}^2}{\text{AC}}\right)\left(\frac{1'}{12''}\right) = 1{,}234 \text{ FT}^3$$

VOID SPACE PROVIDED BY THE STONE IN AN INFILTRATION TRENCH IS .40

∴ REQUIRED TRENCH VOLUME IS 1234/.4 = 3085 FT

∴ A 17' WIDE X 150' LONG X 1.25' DEEP INFILTRATION TRENCH IS REQUIRED.

Date Record Created:

Created By:

WS_BMPNO: YR002

Print Record

PRINTED ON
Wednesday, March 10, 201
1:56:55 PM

WATERSHED	YR
BMP ID NO	002
PLAN NO	
TAX PARCEL	(23-2)(1-42)
PIN NO	23201000042
CONSTRUCTION DATE	4/29/1990
PROJECT NAME	Williamsburg Honda Showroom Add.
FACILITY LOCATION	7277 Richmond Road
CITY-STATE	Williamsburg, VA
CURRENT OWNER	John E. Dodson
OWNER ADDRESS	PO Box 130
OWNER ADDRESS 2	
CITY-STATE-ZIP CODE	Chesterfield, VA 23832
OWNER PHONE	
MAINT AGREEMENT	No
EMERG ACTION PLAN	No

Get Last BMP No

Return to Menu

MAINTENANCE PLAN	No
SITE AREA acre	3.74
LAND USE	COMM
old BMP TYP	INFIL/DRY BASIN
JCC BMP CODE	C4 Infiltration Basin 1.0
POINT VALUE	9
SVC DRAIN AREA acres	1.8
SERVICE AREA DESCRI	NONE
IMPERV AREA acres	0.68
RECV STREAM	YORK RIV TRIB
EXT DET-WQ-CTRL	No
WTR QUAL VOL acre-ft	0.07
CHAN PROT CTRL	No
CHAN PROT VOL acre-ft	0.18
SW/FLOOD CONTROL	No
GEOTECH REPORT	No

CTRL STRUC DESC	Perf PVC Pip
CTRL STRUC SIZE inches	6
OTLT BARRL DESC	RCP
OTLT BARRL SIZE inch	15
EMERG SPILLWAY	Yes
DESIGN HW ELEV	93.5
PERM POOL ELEV	
2-YR OUTFLOW cfs	4.60
10-YR OUTFLOW cfs	5.98
REC DRAWING	No
CONSTR CERTIF	No
LAST INSP DATE	11/19/2001
Inspected by:	
INTERNAL RATING	4
MISC/COMMENTS	

Additional Comments: