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: **PC095**

DATE VERIFIED: **May 24, 2012**

QUALITY ASSURANCE TECHNICIAN: **Leah Hardenbergh**

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA

Stormwater Division

MEMORANDUM

DATE: February 24, 2010

TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services

FROM: Jo Anna Ripley, Stormwater

PO: 270712

RE: Files Approved for Scanning

BMP ID or General File ID PC095

PIN: 3811000001A

Subdivision, Tract, Business or Owner Name (if known): Fords Colony

Property Description: Greenways Section 9A

Site Address:

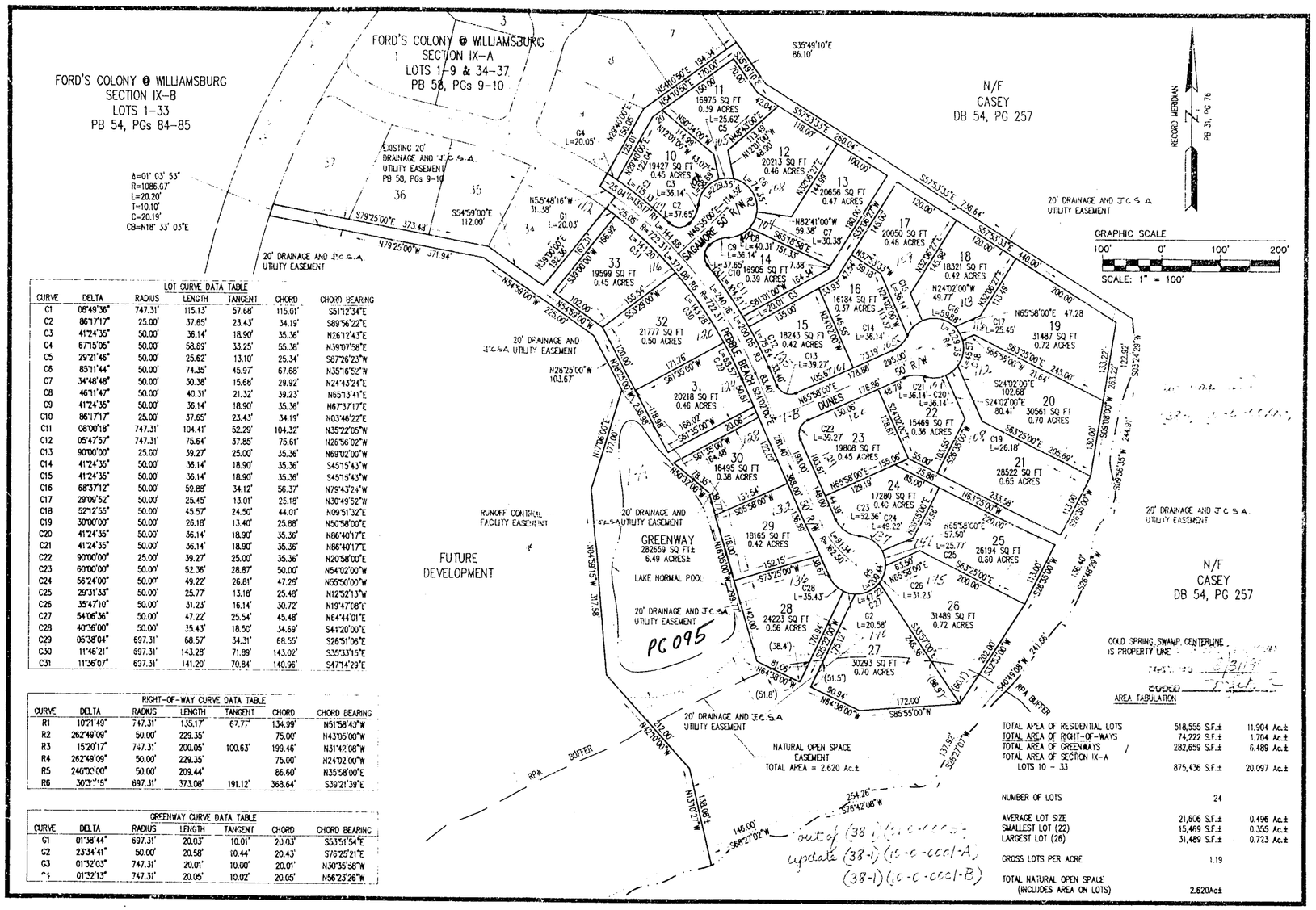
(For internal use only) **Box:** FC001 **Drawer:** 1

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

Comments:

RETRIEVED FROM RECORDS MANAGEMENT, 11-17-04

FORD'S COLONY SEC 9-A; PC 095; S-47-93



LOT CURVE DATA TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C1	08°49'36"	747.31'	115.13'	57.68'	115.01'	S51°12'34"E
C2	86°17'17"	25.00'	37.65'	23.43'	34.19'	S89°56'22"E
C3	41°24'35"	50.00'	36.14'	18.90'	35.36'	N26°12'43"E
C4	67°15'05"	50.00'	58.69'	33.25'	55.38'	N39°07'58"E
C5	29°21'46"	50.00'	25.62'	13.10'	25.34'	S87°26'23"W
C6	85°11'44"	50.00'	74.35'	45.97'	67.68'	N35°16'52"W
C7	34°48'48"	50.00'	30.38'	15.68'	29.92'	N24°43'24"E
C8	46°11'47"	50.00'	40.31'	21.32'	39.23'	N65°13'41"E
C9	41°24'35"	50.00'	36.14'	18.90'	35.36'	N67°37'17"E
C10	86°17'17"	25.00'	37.65'	23.43'	34.19'	N03°46'22"E
C11	08°00'18"	747.31'	104.41'	52.29'	104.32'	N35°22'05"W
C12	05°47'57"	747.31'	75.64'	37.85'	75.61'	N26°56'02"W
C13	90°00'00"	25.00'	39.27'	25.00'	35.36'	N69°02'00"W
C14	41°24'35"	50.00'	36.14'	18.90'	35.36'	S45°15'43"W
C15	41°24'35"	50.00'	36.14'	18.90'	35.36'	S45°15'43"W
C16	68°37'12"	50.00'	59.88'	34.12'	56.37'	N79°43'24"W
C17	29°09'52"	50.00'	25.45'	13.01'	25.18'	N30°49'52"W
C18	52°12'55"	50.00'	45.57'	24.50'	44.01'	N09°51'32"E
C19	30°00'00"	50.00'	26.18'	13.40'	25.88'	N50°58'00"E
C20	41°24'35"	50.00'	36.14'	18.90'	35.36'	N86°40'17"E
C21	41°24'35"	50.00'	36.14'	18.90'	35.36'	N86°40'17"E
C22	90°00'00"	25.00'	39.27'	25.00'	35.36'	N20°58'00"E
C23	60°00'00"	50.00'	52.36'	28.87'	50.00'	N54°02'00"W
C24	56°24'00"	50.00'	49.22'	26.81'	47.25'	N55°50'00"W
C25	29°31'33"	50.00'	25.77'	13.18'	25.48'	N12°52'13"W
C26	35°47'10"	50.00'	31.23'	16.14'	30.72'	N19°47'08"E
C27	54°06'36"	50.00'	47.22'	25.54'	45.48'	N64°44'01"E
C28	40°36'00"	50.00'	35.43'	18.50'	34.69'	S41°20'00"E
C29	05°38'04"	697.31'	68.57'	34.31'	68.55'	S26°51'06"E
C30	11°46'21"	697.31'	143.28'	71.89'	143.02'	S35°33'15"E
C31	11°36'07"	697.31'	141.20'	70.84'	140.96'	S47°14'29"E

RIGHT-OF-WAY CURVE DATA TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
R1	10°21'49"	747.31'	135.17'	67.77'	134.99'	N51°58'43"W
R2	262°49'09"	50.00'	229.35'		75.00'	N43°05'00"W
R3	15°20'17"	747.31'	200.05'	100.63'	199.46'	N31°42'08"W
R4	262°49'09"	50.00'	229.35'		75.00'	N24°02'00"W
R5	240°00'00"	50.00'	209.44'		86.60'	N35°58'00"E
R6	30°3[illegible]'15"	697.31'	373.06'	191.12'	368.64'	S39°21'39"E

GREENWAY CURVE DATA TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
G1	01°38'44"	697.31'	20.03'	10.01'	20.03'	S53°51'54"E
G2	23°34'41"	50.00'	20.58'	10.44'	20.43'	S76°25'21"E
G3	01°32'03"	747.31'	20.01'	10.00'	20.01'	N30°35'58"W
G4	01°32'13"	747.31'	20.05'	10.02'	20.05'	N56°23'26"W

AREA TABULATION

TOTAL AREA OF RESIDENTIAL LOTS	518,555 S.F.±	11.904 Ac.±
TOTAL AREA OF RIGHT-OF-WAYS	74,222 S.F.±	1.704 Ac.±
TOTAL AREA OF GREENWAYS	282,659 S.F.±	6.489 Ac.±
TOTAL AREA OF SECTION IX-A LOTS 10 - 33	875,436 S.F.±	20.097 Ac.±
NUMBER OF LOTS	24	
AVERAGE LOT SIZE	21,606 S.F.±	0.496 Ac.±
SMALLEST LOT (22)	15,469 S.F.±	0.355 Ac.±
LARGEST LOT (26)	31,489 S.F.±	0.723 Ac.±
GROSS LOTS PER ACRE	1.19	
TOTAL NATURAL OPEN SPACE (INCLUDES AREA ON LOTS)	2.620Ac.±	

PLOTTED 4/29/94

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

PLAT OF
FORD'S COLONY
@ WILLIAMSBURG
SECTION IX-A
LOTS 10 - 33
BERKELEY DISTRICT JAMES CITY COUNTY VIRGINIA

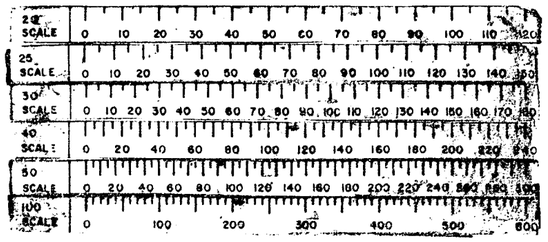
COMMONWEALTH OF VIRGINIA
G. T. WILSON, JR.
CERTIFICATE No. 1183
CERTIFIED CAND SURVEYOR

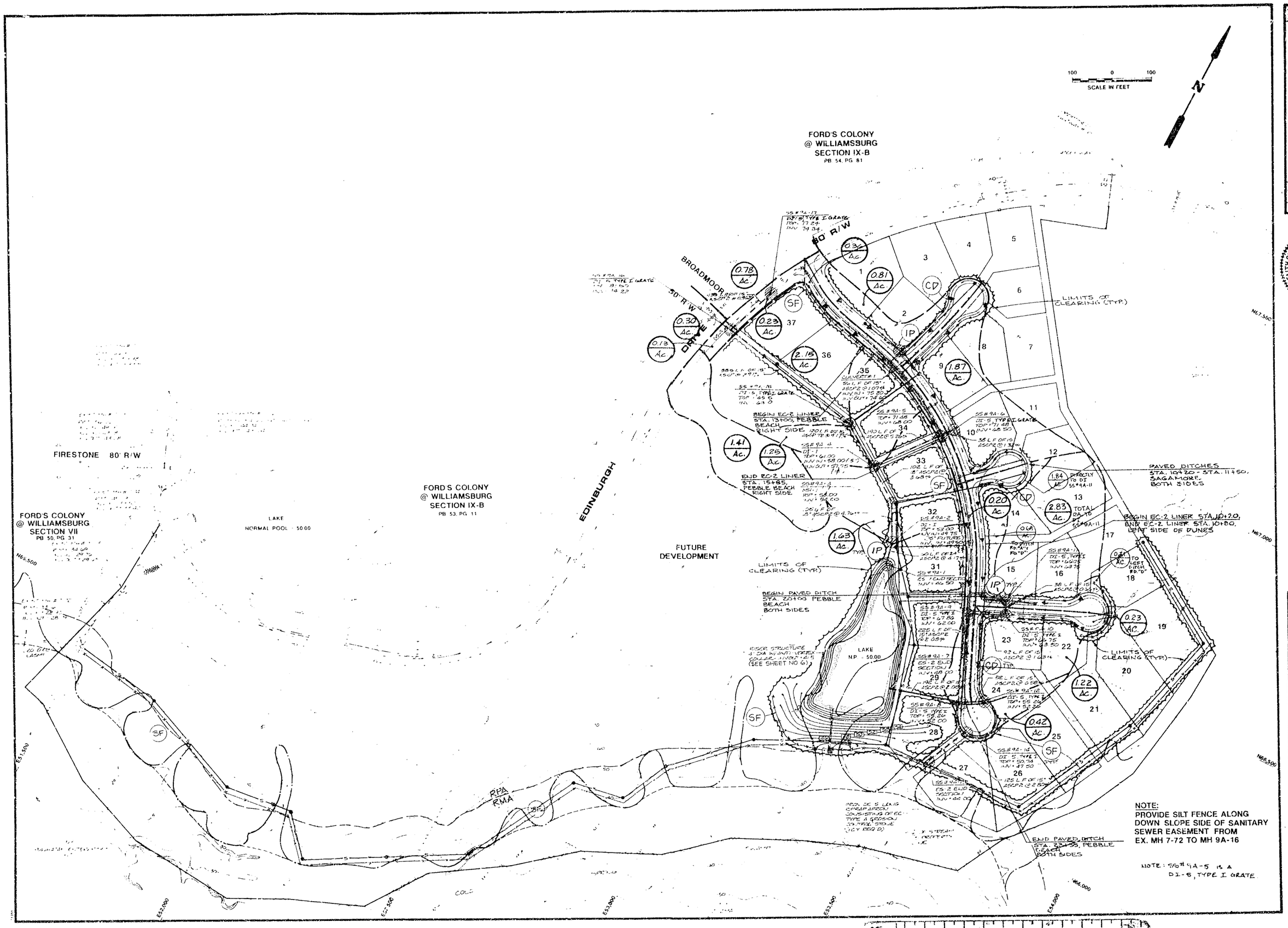
No.	DATE	REVISION / COMMENT / NOTE	BY
1	7-15-94	REVISION ADDED "J.C.S.A." TO EASEMENT CALLS PER J.C.C.	SOW

Designed SOW	Drawn BJU
Scale 1"=100'	Date 4/22/94
Project No. 5652	
Drawing No. Sht. 2 of 2	

2 of 15

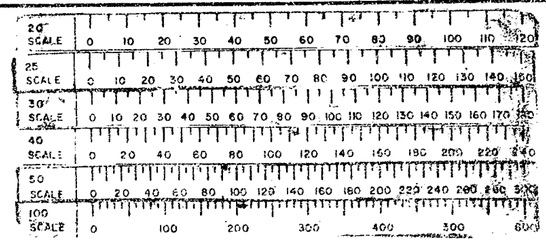
COPY





NOTE:
PROVIDE SILT FENCE ALONG DOWN SLOPE SIDE OF SANITARY SEWER EASEMENT FROM EX. MH 7-72 TO MH 9A-16

NOTE: S/O # 9A-5 IS A DI-5, TYPE I GRATE



No.	DATE	REVISION / COMMENT / NOTE	BY
1	8/4/93	REV. PER J.C.C. COMMENTS	
2	9/10/93	REV. SANITARY SEWER ALIGNMENT	

COMMONWEALTH OF VIRGINIA
STEVEN D. WIGLEY
No. 019307
9-13-93
PROFESSIONAL ENGINEER

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

CONSULTING ENGINEERS

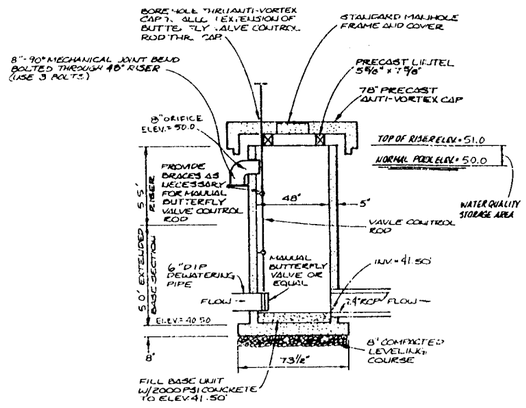
DRAINAGE AND EROSION CONTROL PLAN
FORD'S COLONY
@ WILLIAMSBURG
SECTION IX-A, LOTS 1-37
OWNER/DEVELOPER: REALTEC INCORPORATED
SUNKELY DISTRICT JAMES CITY COUNTY VIRGINIA

Designed	Drawn
SOW	RMJ
Scale	Date
1"=100'	JUNE, 1993
Project No.	
6858	
Drawing No.	
4	

7 of 15

COPY

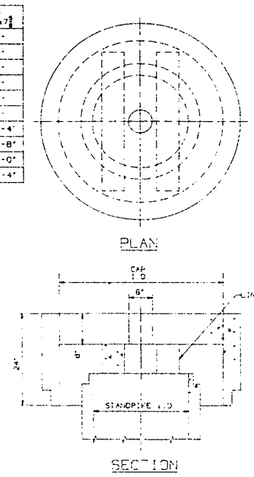
PC095_FORDS_COLONY_SEC_9A_WET_POND - 004



PRINCIPAL SPILLWAY STRUCTURE

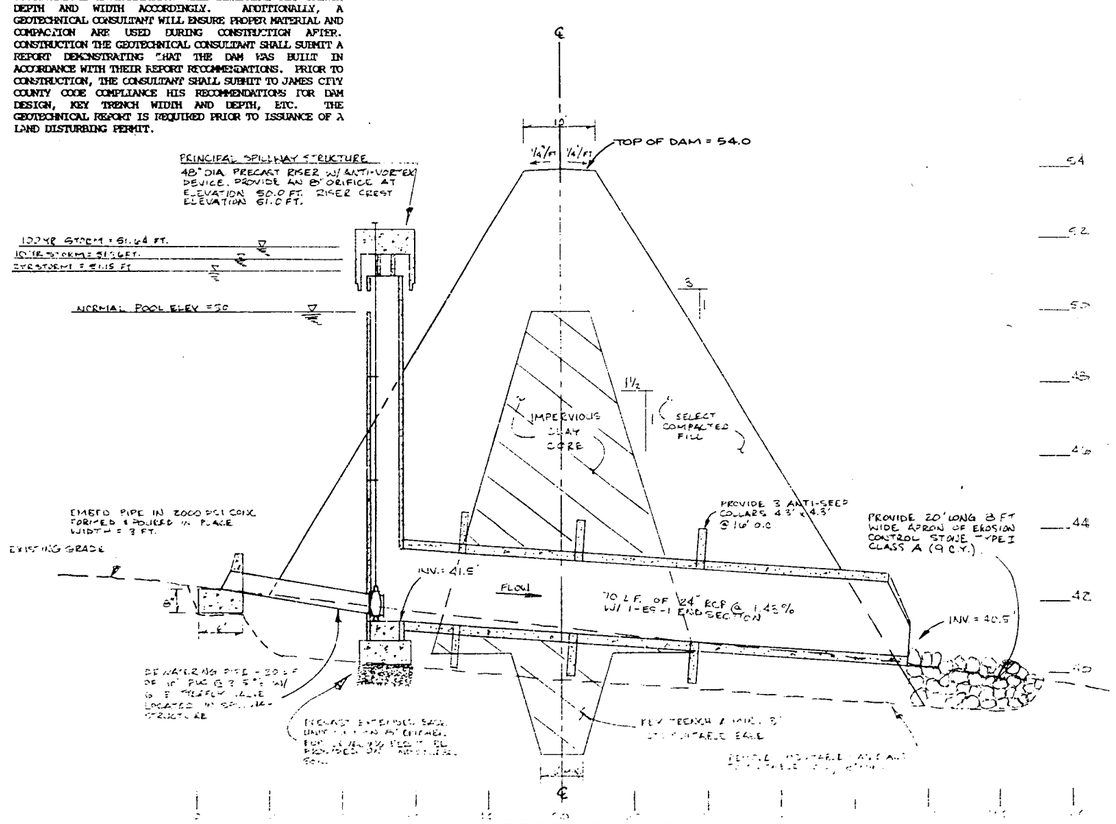
N.T.S.

STAND-PIPE ID	CAP ID	CAP WEIGHT	LINTELS		
			5'6"x7'6"	7'6"x7'6"	
24"	42"	1.115#	2'-8"	-	
27"	48"	1.510#	3'-0"	-	
30"	48"	1.510#	3'-4"	-	
36"	60"	2.987#	4'-0"	-	
42"	66"	2.965#	4'-4"	-	
48"	78"	4.044#	4'-8"	-	
54"	90"	4.844#	-	5'-4"	
60"	96"	5.869#	-	5'-8"	
66"	108"	7.150#	-	6'-0"	
72"	114"	7.497#	-	6'-4"	



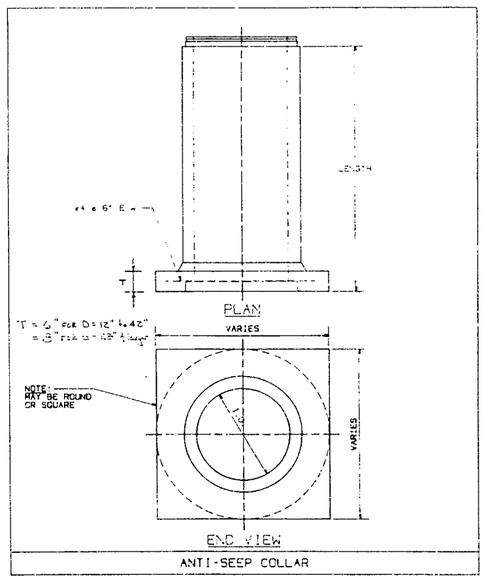
ANTI-VORTEXING TOP

NOTE: A GEOTECHNICAL INVESTIGATION SHALL BE PERFORMED AT THE DAM SITE TO ENSURE THE SUITABILITY OF THE SITE. THE GEOTECHNICAL INVESTIGATION WILL DETERMINE KEY TRENCH DEPTH AND WIDTH ACCORDINGLY. ADDITIONALLY, A GEOTECHNICAL CONSULTANT WILL ENSURE PROPER MATERIAL AND COMPACTION ARE USED DURING CONSTRUCTION AFTER CONSTRUCTION THE GEOTECHNICAL CONSULTANT SHALL SUBMIT A REPORT DEMONSTRATING THAT THE DAM WAS BUILT IN ACCORDANCE WITH THEIR REPORT RECOMMENDATIONS. PRIOR TO CONSTRUCTION, THE CONSULTANT SHALL SUBMIT TO JAMES CITY COUNTY CODE COMPLIANCE HIS RECOMMENDATIONS FOR DAM DESIGN, KEY TRENCH WIDTH AND DEPTH, ETC. THE GEOTECHNICAL REPORT IS REQUIRED PRIOR TO ISSUANCE OF A LAND DISTURBING PERMIT.



DAM CROSS SECTION

SCALE HORIZ. 1"=10'
VERT. 1"=2



ANTI-SEEP COLLAR

DAM CONSTRUCTION NOTES

NOTES

1. SITE PREPARATION: THE CONTRACTOR SHALL STRIP ALL AREAS OF THE PERMANENT CONSTRUCTION AND BORROW PITS TO REMOVE ALL UNSUITABLE MATERIALS. THE UNSUITABLE MATERIALS TO BE REMOVED BY STRIPPING SHALL INCLUDE ALL TOPSOIL, DEBRIS AND VEGETABLE MATTER, INCLUDING STUMPS AND ROOTS, AND ALL OTHER MATERIALS WHICH MAY BE UNSUITABLE FOR USE IN THE PERMANENT CONSTRUCTION.

2. BORROW PITS: BORROW PIT AREAS ARE TO BE LOCATED IN CLOSE PROXIMITY TO THE CONSTRUCTION SITE AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE. BORROW PITS SHALL BE SO EXCAVATED THAT WATER WILL NOT COLLECT AND STAND THEREIN. BEFORE BEING ABANDONED, THE SIDES OF BORROW PITS SHALL BE BROUGHT TO STABLE SLOPES WITH SLOPE INTERSECTIONS SHAPED TO CARRY THE NATURAL CONTOUR OF ADJACENT UNDISTURBED TERRAIN INTO THE PIT OR BORROW AREA GIVING A NATURAL APPEARANCE. TOPSOIL STOCKPILES SHALL BE SHAPED TO PROVIDE A NATURAL APPEARANCE.

3. EMBANKMENT: THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, OVERSIZED STONES, ROCKS, OR OTHER OBJECTIONABLE MATERIAL. SOILS WHICH ARE APPROVABLE FOR THE CONSTRUCTION OF THE IMPERVIOUS CLAY CORE, AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, ARE CH, INORGANIC CLAYS OF HIGH PLASTICITY; CL, INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS; SC, (WITH ENGINEERS APPROVAL) CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES. MATERIALS TO BE PLACED UNDER ROADWAYS SHALL BE THOSE WHICH ARE APPROVABLE BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION FOR THE CONSTRUCTION OF ROADWAY EMBANKMENTS AND SHALL BE MORE PERVIOUS THAN THE IMPERVIOUS CLAY CORE. MATERIALS TO BE USED FOR THE CONSTRUCTION OF THE SHELL SHALL BE SELECT BACKFILL FREE OF STUMPS, ROOTS, ROCKS, TRASH, ETC. AND SHALL BE MORE PERVIOUS THAN THE IMPERVIOUS CLAY CORE. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. THE FILL MATERIAL'S MOISTURE CONTENT SHALL BE +3 TO -2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D2216 (I.E. IN GENERAL THE FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE SO THAT IT CAN BE FORMED INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION). FILL MATERIAL WILL BE PLACED IN 6 TO 8-INCH CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION, AS NOTED ON PLAN, SHALL BE OBTAINED GENERALLY BY USING A SHEEPSFOOT COMPACTOR.
AN INDEPENDENT STATE APPROVED SOIL TESTING LABORATORY SHALL BE RETAINED BY THE CONTRACTOR TO PROVIDE A TESTING PROGRAM TO INSURE THE DAM EMBANKMENT IS BUILT IN ACCORDANCE WITH THE SPECIFICATIONS. THE LABORATORY SHALL, AT A MINIMUM, TEST EVERY LIFT OF FILL. IF THE LIFT EXCEEDS 15,000 SQUARE FEET THEN A TEST SHALL BE PROVIDED, AT A MINIMUM, FOR EACH 15,000 SQUARE FEET OF FILL IN THE LIFT. THESE TESTS SHALL BE PROVIDED TO THE ENGINEER OR HIS REPRESENTATIVE AT AN ONGOING BASIS. AT THE COMPLETION OF THE EMBANKMENT THE SOIL LABORATORY SHALL PROVIDE THE OWNER WITH A LETTER TO CERTIFY THAT SUFFICIENT TESTS HAVE BEEN TAKEN TO INSURE THE CONSTRUCTION IS IN ACCORDANCE WITH SPECIFICATIONS.

4. CUTOFF TRENCH/KEY TRENCH: THE TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE DAM. THE MINIMUM DEPTH SHALL BE AS SHOWN ON THE PLANS AND SHALL EXTEND UP BOTH ABUTMENTS TO THE INDICATED ELEVATION. THE MINIMUM BOTTOM WIDTH SHALL BE 6 FEET, BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1-1/2:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE KEPT DRAINED DURING THE BACKFILLING-COMPACTING OPERATIONS.

5. PRINCIPAL SPILLWAY: ALL JOINTS IN THE PRINCIPAL SPILLWAY RISER STRUCTURE AND BARREL SHALL BE OF WATERTIGHT CONSTRUCTION. THE RISER OF THE PRINCIPAL SPILLWAY SHALL BE SECURELY ATTACHED TO THE BARREL BY A WATERTIGHT CONNECTION. THE BARREL AND RISER SHALL BE PLACED ON A FIRM COMPACTED SOIL FOUNDATION, THE BASE OF THE RISER SHALL BE FIRMLY ANCHORED ACCORDING TO THE DESIGN CRITERIA TO PREVENT ITS FLOATING. PERVIOUS MATERIALS SUCH AS SAND, GRAVEL OR CRUSHED STONE SHALL NOT BE USED AS BACKFILL AROUND THE BARREL OR ANTI-SEEP COLLARS. FILL MATERIAL SHALL BE PLACED AROUND THE PIPE IN 4-INCH LAYERS AND COMPACTED BY HAND AT LEAST TO THE SAME DENSITY AS THE EMBANKMENT. A MINIMUM OF TWO FEET OF FILL SHALL BE HAND-COMPACTED OVER THE BARREL BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.

6. EMERGENCY SPILLWAY: THE EMERGENCY SPILLWAY SHOULD NOT BE CONSTRUCTED OVER FILL MATERIAL. DESIGN ELEVATIONS, WIDTHS, ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY AND SHOULD BE ADHERED TO CLOSELY DURING CONSTRUCTION.

7. VEGETATIVE STABILIZATION: FINAL VEGETATIVE COVER (STABILIZATION) SHALL CONSIST OF TOPSOILING, LIMING, FERTILIZING, SEEDING, AND MULCHING TO ASSURE A FIRM STAND OF GRASS AS SOON AS PRACTICAL. SEDIMENT BASINS AND OTHER TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED ONLY WHEN STABILIZATION IS COMPLETE. FINAL VEGETAL COVER SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING:

TOPSOIL:	AT LEAST 2" THICKNESS OBTAINED FROM STOCKPILES ON SITE, FREE OF LARGE DEBRIS.
LIME:	4,000#/ACRE (90#/1,000 S.F.)
SEED:	KENTUCKY 31 TALL FESCUE 250#/ACRE (6#/1,000 S.F.)
FERTILIZER:	10/20/10 MIX, 1,000#/ACRE (25#/1,000 S.F.)
MULCH:	STRAW OR HAY (LOCALLY OBTAINED) 4,000#/ACRE (90#/1,000 S.F.)

COPY

No.	DATE	REVISION/COMMENT	BY
1	8/3/93	REV. PER J.C.C. COMMENTS	
2	9/8/93	REV. SANITARY SEWER ALIGNMENT	

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

DAM NOTES AND DETAILS
FORD'S COLONY @ WILLIAMSBURG
SECTION 13-A, LOTS 1-37
OWNER/DEVELOPER: REALTEC INCORPORATED
VIRGINIA
BERKLEY DISTRICT JAMES CITY COUNTY

Designed SOW	Drawn CJL
Scale 1"=100'	Date JUNE 1993
Project No. 5852	
Drawing No. 6	

9 of 15

DHW = 51.64
N.P = 50.00
48" RCP RISER w/ 8" ORIFICE @ N.P.
24" RCP BARREL
RISER CREST EL 51.0

PC095
S-47-93

WATERSHED	PC	MAINTENANCE PLAN	No	CTRL STRUC DESC	RCP Riser
BMP ID NO	095	SITE AREA acre	2400	CTRL STRUC SIZE inches	48
PLAN NO	S-47-93	LAND USE	Residential	OTLT BARRL DESC	RCP Barrel
TAX PARCEL	(38-1)(10-1A)	old BMP TYP	Wet Pond	OTLT BARRL SIZE inch	24
PIN NO	38101000001A	JCC BMP CODE			
CONSTRUCTION DATE	8/1/1993	POINT VALUE	8	EMERG SPILLWAY	No
PROJECT NAME	Ford's Colony Sec 9A			DESIGN HW ELEV	51.64
FACILITY LOCATION	Near (south) of Castel Pines			PERM POOL ELEV	50.00
CITY-STATE	Williamsburg, Va. 23185	SVC DRAIN AREA acres	39	2-YR OUTFLOW cfs	0.00
CURRENT OWNER	REALTEC, INC			10-YR OUTFLOW cfs	0.00
OWNER ADDRESS	ONE FORDS COLONY DRIVE			REC DRAWING	No
OWNER ADDRESS 2	WILLIAMSBURG, VA 23185	SERVICE AREA DESCRI	Single Family Lots & Roads		
CITY-STATE-ZIP CODE		IMPERV AREA acres		CONSTR CERTIF	No
OWNER PHONE		RECV STREAM	UT of Powhatan Creek		
MAINT AGREEMENT	Yes	EXT DET-WQ-CTRL	No	LAST INSP DATE	9/7/2000
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	18	INTERNAL RATING	4
		CHAN PROT CTRL	No	MISC/COMMENTS	
		CHAN PROT VOL acre-ft	0	Repaired 10/05.	
		SW/FLOOD CONTROL	Yes		
		GEOTECH REPORT	Yes		

Get Last BMP No

Return to Menu

PC095_FORDS_COLONY_SEC_9A_WET_POND - 007