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: **CC020**

DATE VERIFIED: **May 17, 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: CC020

PIN: 4820100005A

Subdivision, Tract, Business or Owner Name (if known): Williamsburg Jamestown Airport

Property Description: Airport

Site Address: 100 Marclay Road

(For internal use only) **Box** 10 **Drawer:** 6

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

Comments

CC020

Contents for Stormwater Management Facilities As-built Files

Each file is to contain:

1. As-built plan
2. Completed construction certification
3. Construction Plan
4. Design Calculations
5. Watershed Map
6. Maintenance Agreement
7. Correspondence with owners
8. Inspection Records
9. Enforcement Actions

CONSTRUCT ACCESS ROAD (690 LF) △2

WILLIAMSBURG-JAMESTOWN AIRPORT

DOAV PROJECT NO. CS 9010 (PENDING)

T.B.I. PROJECT NO. 4205-0002

prepared for

WILLIAMSBURG-JAMESTOWN AIRPORT, INC.
WILLIAMSBURG, VIRGINIA

AUGUST 2000

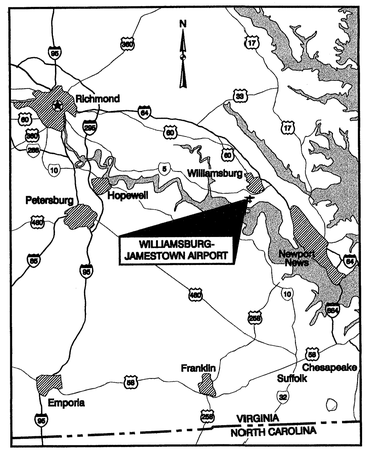
RECORD DRAWINGS
MAY 1, 2001

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which may have been incorporated into this document as a result.
All items listed as "to be", "install", "remove", "provide", etc. under this project were accomplished unless noted otherwise.

TALBERT & BRIGHT, INC.

QUANTITY SCHEDULE

	NO.	SPEC. NO.	DESCRIPTION	UNIT	AS - BID	AS - BUILT
△3	1	244	EXCELSIOR BLANKET	SY	1230	1230
	2	301	CLEARING & GRUBBING	AC	2	2
	3	302	18" RCP, CLASS III	LF	118	118
	4	302	END SECTION, ES-1, 18"	EA	4	4
	5	302	BEDDING MATERIAL, NO. 25	TN	300	300
	6	303	EARTHWORK	LS	1	1
	7	303	UNDERCUT EXCAVATION (UNSUITABLE)	CY	150	25.64
	8	303	DIVERSION DIKE	LF	110	110
	9	303	TEMPORARY SILT FENCE	LF	168	0
	10	303	ROCK CHECK DAM	EA	9	9
	11	303	CULVERT INLET PROTECTION	EA	3	3
	12	303	TEMPORARY SEDIMENT TRAP	CY	550	550
	13	303	CONSTRUCTION ENTRANCE	EA	1	1
	14	309	AGGREGATE BASE MATERIAL TYPE 21A	TN	903	847.91
	15	311	LIQUID ASPHALT BITUMINOUS PRIME COAT	GL	360	0
	16	315	ASPHALT CONCRETE TYPE SM-2A	TN	307	269.69
	17	315	ASPHALT CONCRETE TYPE BM-2	TN	307	339.40
	18	414	EROSION CONTROL TREATMENT, TYPE A	SY	25	25
	19	508	DEMOLITION OF PAVEMENT (BITUMINOUS)	SY	70	70
	20	512	TRAFFIC DRUM	EA	8	8
	21	513	MOBILIZATION	LS	1	1
	22	603A	SEEDING	AC	1.2	1.2
	23	603A	MULCHING	AC	1.2	1.2



VICINITY MAP

SCALE: 1"= 14 MILES APPROX.

SHEET INDEX

NO.	TITLE
1	COVER SHEET
2	GENERAL LAYOUT
3	SITE AND DEVELOPMENT PLAN
4	GRADING AND DRAINAGE PLAN
5	EROSION AND SEDIMENT CONTROL DETAILS
6	EROSION AND SEDIMENT CONTROL NOTES
7	TYPICAL SECTION AND PAVEMENT DETAILS
8	MISCELLANEOUS DETAILS

RECORD DRAWING
SP-55-99
CC020

SET NO. _____

DATE _____

TALBERT & BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-706-6878 FAX: 804-706-6871

REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
△2	REVISIONS AS PER COUNTY COMMENTS	7/28/99
△3	REVISIONS AS PER COUNTY COMMENTS	8/20/99
4	RECORD DRAWINGS	5/1/01

REVISIONS

COVER SHEET
Construct Access Road
Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
8-14-00
PROFESSIONAL ENGINEER

Date	AUGUST 2000
Scale	NONE
Drawn	CJT
Checked	JWT
Project No.	4205-0002
Sheet No.	1
Of	8

JGG0002COVER.DWG

CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 004

INSTALL (2) 12,000 GAL. ABOVE GROUND FUEL TANKS
CONSTRUCT ACCESS ROAD (968 LF) △2
CONSTRUCT APRON (786 SY)

WILLIAMSBURG-JAMESTOWN AIRPORT

DOAV PROJECT NO. CS 9010-16
T.B.I. PROJECT NO. 4205-9801/9803

prepared for

WILLIAMSBURG-JAMESTOWN AIRPORT, INC.
WILLIAMSBURG, VIRGINIA

RECORD DRAWINGS
APRIL 24, 2000

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TALBERT & BRIGHT, INC.

MARCH 1999

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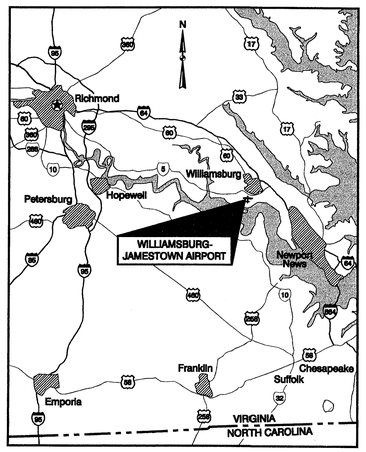
8	FENCING DETAILS
9	MISCELLANEOUS DETAILS
10	MISCELLANEOUS DETAILS

QUANTITY SCHEDULE
PHASE I (FUEL FARM)

NO.	SPEC. NO.	DESCRIPTION	UNIT	AS - BID	AS - BUILT
△3 1	244	EXCELSIOR BLANKET	SY	150	150
2	301	CLEARING & GRUBBING	AC	1	1
3	302	RCP, 18", CLASS III	LF	123	123
4	302	STANDARD DROP INLET-DI-1	EA	1	1
5	302	CONCRETE TEE, 18", CLASS III	EA	1	1
6	302	FUEL FARM DRAINAGE SYSTEM	LS	1	1
7	303	EARTHWORK	LS	1	1
8	303	UNDERCUT EXCAVATION (UNSUITABLE)	CY	100	0
9	303	TEMPORARY SILT FENCE	LF	337	337
10	303	ROCK CHECK DAM	EA	4	0
11	303	CONSTRUCTION ENTRANCE	EA	1	1
12	303	GEOTEXTILE FABRIC	SY	240	240
13	309	AGGREGATE BASE MATERIAL TYPE 21A	TN	675	636.02
14	311	LIQUID ASPHALT BITUMINOUS PRIME COAT	GL	320	0
15	315	ASPHALT CONCRETE TYPE SM-2A	TN	225	175.06
16	315	ASPHALT CONCRETE TYPE BM-2	TN	172	156.06
17	P-625	COAL TAR PITCH EMULSION SEAL COAT	SY	650	0
18	502	STANDARD CG-2 CURB	LF	155	155
19	504	HYDRAULIC CEMENT CONCRETE SIDEWALK 6"	SY	280	280
20	507	8'x24' BLACK VINYL COATED DOUBLE SWING CHAIN LINK GATE	EA	1	0
21	507	8'x4' BLACK VINYL COATED CHAIN LINK FENCE PEDESTRIAN GATE	EA	2	2
22	507	8' BLACK VINYL COATED CHAIN LINK FENCE	LF	155	189
23	508	DEMOLITION OF PAVEMENT (BITUMINOUS)	SY	96	0
24	512	TRAFFIC DRUM	EA	8	8
25	513	MOBILIZATION	LS	1	1
26	520	8" C151 DUCTILE IRON WATERLINE (PRES. CLASS 350)	LF	270	0
27	520	8" C151 DUCTILE IRON BLIND CAP (PRES. CLASS 350)	EA	1	0
28	520	8"x45 C151 DUCTILE IRON BEND (PRES. CLASS 350)	EA	1	0
29	603A	SEEDING	AC	0.3	0.3
30	603A	MULCHING	AC	0.3	0.3
31	700	LIGHTING POLE, LP-1 SINGLE LUMINAIRE, 20' HIGH, 400 WATT	EA	3	3
32	700	CONDUIT PVC 2"	LF	28	28
33	700	CONDUIT PVC 4"	LF	195	195
34	700	JUNCTION BOX, JB-1C	EA	1	1
35	700	TRENCH EXCAVATION	LF	657	657
36	700	CONDUCTOR CABLE, # 12, TYPE USE	LF	295	295
37	700	CONCRETE FOUNDATION, LF-1, TYPE A	EA	5	3
38	PSP-9	PIPE BOLLARD	EA	6	2
39	16000	METER BOX	LS	1	1
40	16000	DISTRIBUTION PANEL	LS	1	1
41	M-107	LOW PROFILE AVIATION BARRICADE	LF	60	0



VICINITY MAP

SCALE: 1"= 14 MILES APPROX.

QUANTITY SCHEDULE
PHASE II (ACCESS ROAD)

NO.	SPEC. NO.	DESCRIPTION	UNIT	AS - BID	AS - BUILT
△3 1	244	EXCELSIOR BLANKET	SY	1230	
2	301	CLEARING & GRUBBING	AC	2	
3	302	18" RCP, CLASS III	LF	118	
4	302	END SECTION, ES-1, 18"	EA	4	
5	302	BEDDING MATERIAL, NO. 25	TN	300	
6	303	EARTHWORK	LS	1	
7	303	UNDERCUT EXCAVATION (UNSUITABLE)	CY	150	
8	303	DIVERSION DIKE	LF	110	
9	303	TEMPORARY SILT FENCE	LF	168	
10	303	ROCK CHECK DAM	EA	9	
11	303	CULVERT INLET PROTECTION	EA	3	
12	303	TEMPORARY SEDIMENT TRAP	CY	550	
13	303	CONSTRUCTION ENTRANCE	EA	1	
14	309	AGGREGATE BASE MATERIAL TYPE 21A	TN	903	
15	311	LIQUID ASPHALT BITUMINOUS PRIME COAT	GL	360	
16	315	ASPHALT CONCRETE TYPE SM-2A	TN	307	
17	315	ASPHALT CONCRETE TYPE BM-2	TN	307	
18	414	EROSION CONTROL TREATMENT, TYPE A	SY	25	
19	512	TRAFFIC DRUM	EA	8	
20	513	MOBILIZATION	LS	1	
21	603A	SEEDING	AC	1.2	
22	603A	MULCHING	AC	1.2	

SET NO. _____

DATE _____

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
△2	REVISIONS AS PER COUNTY COMMENTS	7/28/99
△4	REVISIONS AS PER COUNTY COMMENTS	8/20/99
	RECORD DRAWINGS	04/24/00

REVISIONS

RECEIVED JUN 2001 ENVIRONMENTAL DIVISION

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6·28·99
PROFESSIONAL ENGINEER

COVER SHEET
Construct & Install Fuel Tanks, Access Road, Apron
Williamsburg-Jamestown Airport - Williamsburg, Virginia

Date	MARCH 1999
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	1
Of	10

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CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 005

GENERAL NOTES:

G1. THE CONTRACTOR SHALL MARK AND LIGHT AREAS UNDER CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. AIRCRAFT AND PUBLIC SAFETY SHALL NOT BE COMPROMISED AND PROPER SEPARATIONS SHALL BE MAINTAINED AT ALL TIMES. REFERENCE IS DIRECTED TO SECTION 110 OF THE SPECIFICATIONS. EQUIPMENT AND VEHICLES SHALL BE MARKED 3' X 3' ORANGE AND WHITE CHECKER FLAGS (DAY ONLY) AND/OR YELLOW FLASHING DOME TYPE LIGHTS (DAY OR NIGHT).

G2. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES (I.E. AIRPORT LIGHTING, NAVAIDS, VISUAL AIDS, ETC.) FROM DAMAGE BY EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE.

G3. THE CONTRACTOR SHALL ADVISE THE ENGINEER, IN WRITING, OF ANY DAMAGED UTILITIES OR FACILITIES PRIOR TO BEGINNING CONSTRUCTION AS WELL AS DURING CONSTRUCTION.

G4. ALL DISTURBED AREAS, INCLUDING THE CONTRACTOR'S STAGING AREA, HAUL ROUTES, GRADING LIMITS, TRENCHING, ETC., SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. ALL SUCH WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 603 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

G5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, ETC.., REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.

G6. PRIOR TO BEGINNING WORK EACH DAY, THE CONTRACTOR SHALL COORDINATE THE LOCATION AND TYPE OF WORK TO BE PERFORMED THAT DAY WITH THE AIRPORT MANAGEMENT AND RESIDENT PROJECT REPRESENTATIVE (IF PRESENT). THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE AIRPORT MANAGEMENT PRIOR TO PERFORMING WORK THAT WILL REQUIRE CLOSING OR RESTRICTING USE OF THE RUNWAY(S) OR TAXIWAY(S).

G7. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL POSITION ALL EQUIPMENT, TOOLS, MATERIALS, ETC., IN THE STAGING AREA.

G8. THE CONTRACTOR SHALL AGREE TO REPAIR, AT HIS OWN EXPENSE, ANY DAMAGE THAT IS INCURRED AS A RESULT OF HIS OPERATIONS ON THE AIRPORT PROPERTY.

G9. BORING LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.

G10. EXISTING AIRPORT PAVEMENT HAS NOT BEEN DESIGNED FOR CONSTRUCTION TRAFFIC. ANY DAMAGE CREATED BY CONSTRUCTION TRAFFIC SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

G11. NO DEBRIS OF ANY NATURE SHALL BE ALLOWED IN ACTIVE AIRCRAFT OPERATION AREAS. ALL LOOSE MATERIAL (DIRT, STONE, PAVEMENT, FORMING ETC.) MUST BE KEPT WITHIN THE LIMITS OF THE CONSTRUCTION. WHEN THE CONSTRUCTION BARRIERS ARE RELOCATED, CLEAN UP OF AREA OUTSIDE THE BARRIERS SHALL OCCUR IMMEDIATELY. IN ADDITION, NO LOOSE MATERIALS THAT COULD BLOW INTO THE AIRCRAFT OPERATION AREAS SHALL BE ALLOWED IN THE CONSTRUCTION AREA.

PHASING NOTES:

P1. CONTRACT TIME: 50 CALENDAR DAYS

P2. LIQUIDATED DAMAGES IN THE AMOUNT OF $250.00 PER CALENDAR DAY WILL BE ASSESSED AGAINST THE CONTRACTOR FOR EVERY CALENDAR DAY THAT THE CONTRACT TIME PLUS APPROVED EXTENSIONS IS EXCEEDED.

P3. THE CONTRACTOR SHALL DEPOSIT ALL WASTE MATERIAL FROM THIS CUT SECTION FOR THE ROAD IN THIS AREA NOTED ON THIS SHEET. ACCESS AND EXACT LOCATION TO BE COORDINATED WITH THE OWNER.

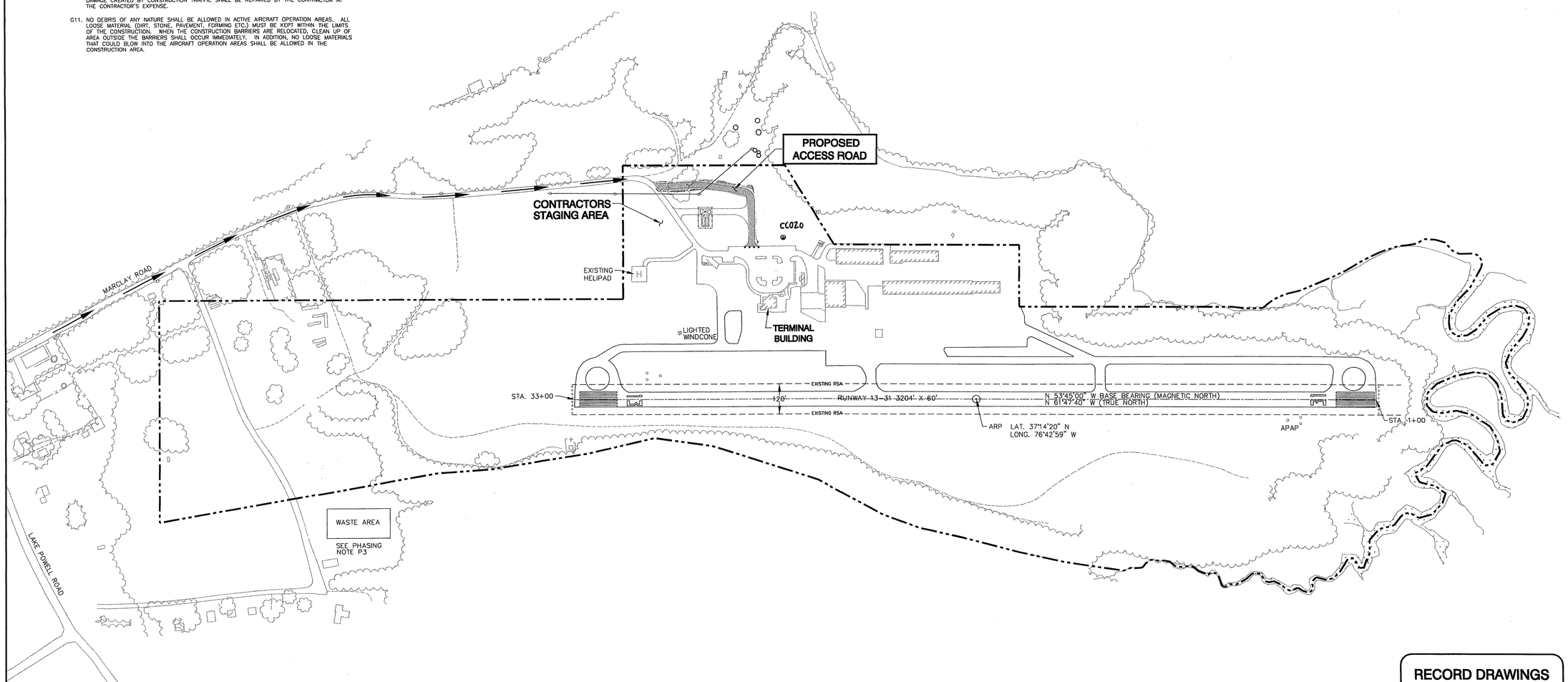
N

LEGEND

AIRPORT PROPERTY LINE

HAUL ROUTE

TRAFFIC DRUMS



RECORD DRAWINGS
MAY 1, 2001

1"=200' 200 0 200 400 scale feet

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TALBERT & BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-706-6676 FAX: 804-706-6871

REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2	RECORD DRAWINGS	5/1/01

REVISIONS

GENERAL LAYOUT
Construct Access Road
Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
8-14-00
PROFESSIONAL ENGINEER

Date	AUGUST 2000
Scale	1"=200'
Drawn	CIT
Checked	JWT
Project No.	4205-0002
Sheet No.	2
Of	8

GENERAL NOTES:

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G5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, ETC., REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.

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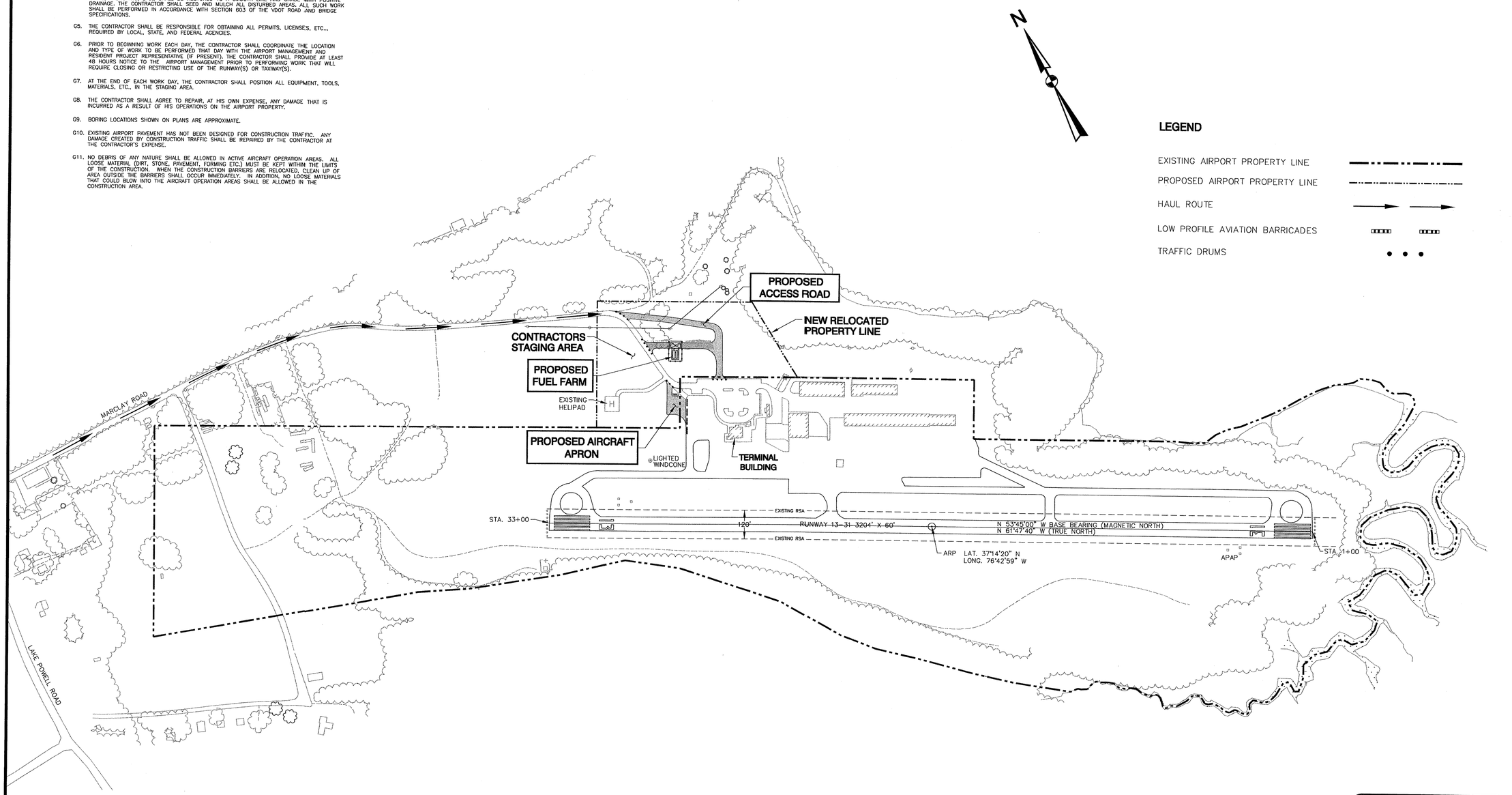
PHASING NOTES:

P1. CONTRACT TIME:
PHASE I 50 CALENDAR DAYS
PHASE II 50 CALENDAR DAYS

P2. LIQUIDATED DAMAGES IN THE AMOUNT OF $250.00 PER CALENDAR DAY WILL BE ASSESSED AGAINST THE CONTRACTOR FOR EVERY CALENDAR DAY THAT THE CONTRACT TIME PLUS APPROVED EXTENSIONS IS EXCEEDED.

P3. THE CONTRACTOR MAY WORK UNDER TRAFFIC PROVIDED ALL BARRICADES SHOWN ARE INSTALLED. PERSONNEL SHALL PULL BACK OUTSIDE THE SAFETY AREA FOR AIRCRAFT OPERATIONS.



LEGEND

EXISTING AIRPORT PROPERTY LINE
PROPOSED AIRPORT PROPERTY LINE
HAUL ROUTE
LOW PROFILE AVIATION BARRICADES
TRAFFIC DRUMS

RECORD DRAWINGS
APRIL 24, 2000

1"=200' 200 0 200 400 scale feet

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TALBERT&BRIGHT
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REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2	RECORD DRAWINGS	04/24/00

REVISIONS

GENERAL LAYOUT

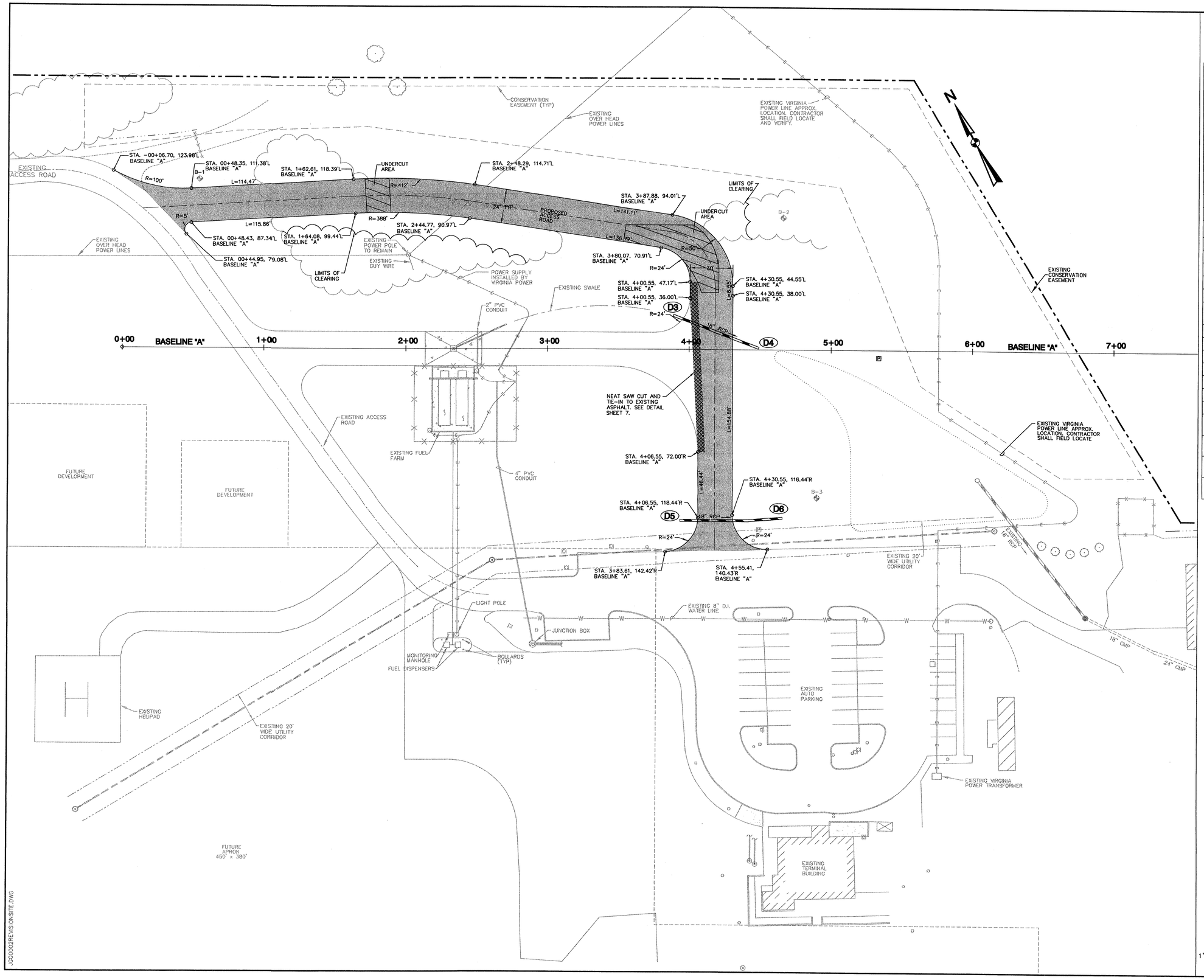
Construct & Install Fuel Tanks, Access Road, Apron

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	1"=200'
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	2
Of	10

CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 007



LEGEND

	EXISTING	PROPOSED
APPROX. SOIL BORING LOCATION		B-1
PROPERTY LINE		
BMP AREA		
OPEN SPACE LIMITS		
SANITARY MANHOLE		
STORM MANHOLE		
CLEAN OUT		
GAS VALVE		
WATER VALVE		
SPRINKLER HEADS		
LIGHT POLE		
SIGN		
UNDERGROUND PHONE BOX		
TELEPHONE PEDESTAL		
TREE LINE		
TREES		
FENCE		
GATES		
STORM SEWER (RCP) SIZE & CLASS AS NOTED		
DITCH LINE C/L		
FIRE HYDRANT		
WATER LINE	W	W
ELECTRICAL LINE	E	E
PVC CONDUIT		
JUNCTION BOX (JB-1)		JB
BOLLARDS		
ASPHALT PAVEMENT		
SEAL COAT AREAS		
CONCRETE		
PAVEMENT REMOVAL		

SITE DATA

OPEN SPACE: 3.28 AC

IMPERVIOUS COVER: 0.82 AC

TOTAL SITE AREA: 4.10 AC

SITE AREA COVERED: 0 AC BY BUILDINGS

RECORD DRAWINGS
MAY 1, 2001

1"=30' 30 0 30 60 scale feet

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
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REVISIONS

SITE AND DEVELOPMENT PLAN

Construct Access Road

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL G. KANE
#020619
8-14-00
PROFESSIONAL ENGINEER

Date	AUGUST 2000
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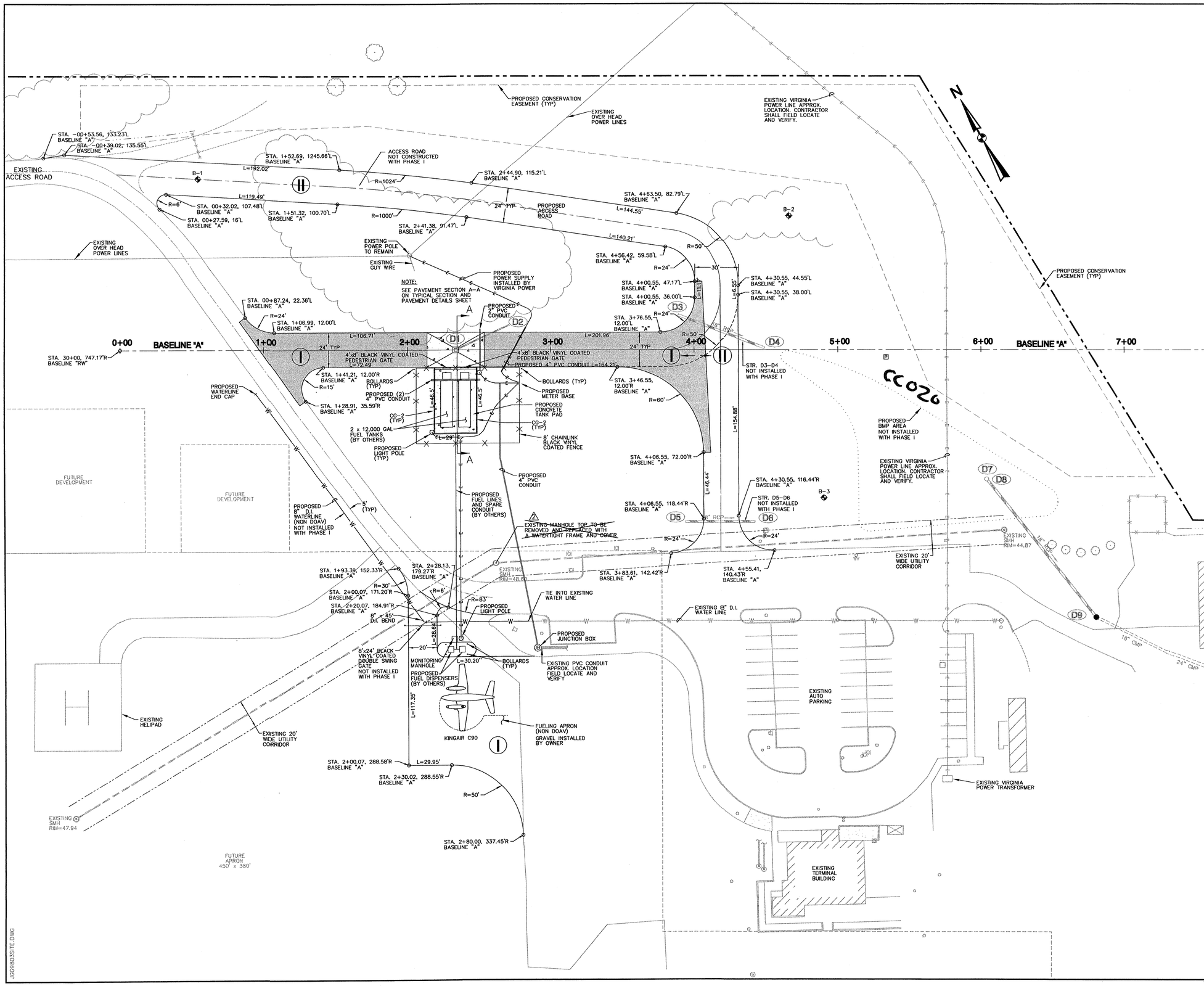
Sheet No.	3
Of	8



LEGEND

	EXISTING	PROPOSED
APPROX. SOIL BORING LOCATION		B-1
PROPERTY LINE		
BMP AREA		
OPEN SPACE LIMITS		
SANITARY MANHOLE		
STORM MANHOLE		
CLEAN OUT		
GAS VALVE		
WATER VALVE		
SPRINKLER HEADS		
LIGHT POLE		
SIGN		
UNDERGROUND PHONE BOX		
TELEPHONE PEDESTAL		
TREE LINE		
TREES		
FENCE		
GATES		
STORM SEWER (RCP) SIZE & CLASS AS NOTED		
DITCH LINE C/L		
FIRE HYDRANT		
WATER LINE		
ELECTRICAL LINE		
PVC CONDUIT		
JUNCTION BOX (JB-1)		
BOLLARDS		
ASPHALT PAVEMENT		
SEAL COAT AREAS		
CONCRETE		
PAVEMENT REMOVAL		
PHASE I AREAS (FUEL FARM)		I
PHASE II AREAS (ACCESS ROAD)		II

SITE DATA

OPEN SPACE: 3.28 AC

IMPERVIOUS COVER: 0.82 AC

TOTAL SITE AREA: 4.10 AC

SITE AREA COVERED: 0 AC BY BUILDINGS

NOTE:

1. THE PROPOSED FUEL FARM AND PUMPS WILL BE ADEQUATELY SCREENED FROM THE VIEW OF ADJACENT PROPERTIES WITHOUT THE NEED OF ADDITIONAL PLANTINGS.
2. AREA LOCATED WITHIN THE CONSERVATION EASEMENT IS NATURAL OPEN SPACE AND WILL NOT BE DISTRURBED.

RECORD DRAWINGS
APRIL 24, 2000

1"=30' 30 0 30 60 scale feet

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1.	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2.	REVISION AS PER COUNTY COMMENTS	7/28/99
3	RECORD DRAWINGS	04/24/00

REVISIONS

SITE AND DEVELOPMENT PLAN

Construct & Install Fuel Tanks, Access Road, Apron

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	1"=30'
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	3
Of	10

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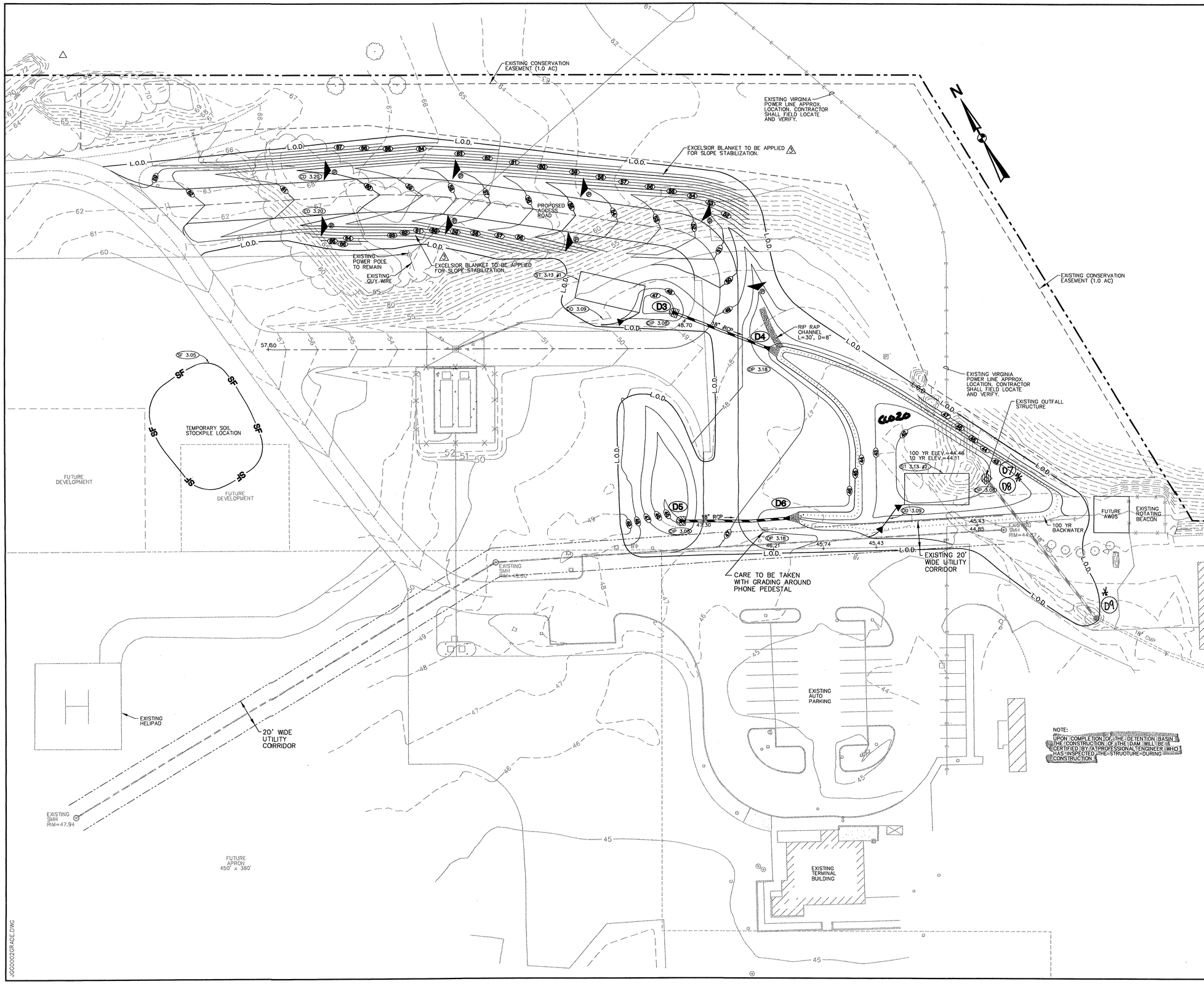

LEGEND

	EXISTING	PROPOSED
SPOT ELEVATION		× 13.95
PROPERTY LINE		
1' CONTOURS	39	39
5' CONTOURS	40	40
100 YR BACKWATER		
OPEN SPACE LIMITS		
SANITARY MANHOLE		
STORM MANHOLE		
CLEAN OUT		
GAS VALVE		
WATER VALVE		
SPRINKLER HEADS		
LIGHT POLE		
SIGN		
UNDERGROUND PHONE BOX		
TELEPHONE PEDESTAL		
TREE LINE		
TREES		
FENCE		
GATES		
STORM SEWER (RCP) SIZE & CLASS AS NOTED		
FLARED END SECTION		
DITCH LINE C/L		
DIVERSION DIKE (SF 3.09)		
LIMITS OF DISTURBANCE		L.O.D.
SILT FENCE (SF 3.05)		SF
CHECK DAM(CD 3.20) PERMANENT STRUCTURE NOT INSTALLED IN PHASE I		P
CHECK DAM (CD 3.20) TEMPORARY STRUCTURE		
CULVERT INLET PROTECTION (CIP 3.20)		
CULVERT OUTLET PROTECTION (OP 3.18)		
ASPHALT PAVEMENT		
CONCRETE		

DRAINAGE SUMMARY

D3 18" FLARED END SECTION ES-1
INV. IN=47.76

D4 18" FLARED END SECTION ES-1
INV. OUT=44.12

D5 18" FLARED END SECTION ES-1
INV. IN=44.24

D6 18" FLARED END SECTION ES-1
INV. OUT=43.76

D1 - D2 8" PVC PLASTIC PIPE, SLOPE=1.56%
50.0 LF

D3 - D4 18" RCP CLASS III, SLOPE=1.00%
64.0 LF

D5 - D6 18" RCP CLASS III, SLOPE=1.00%
72.0 LF

* NOTATION BY SJTHOMAS 12-06-01.

D7
D8
D9
SEE MYLAR SP-55-99; CC020

RECORD DRAWINGS
MAY 1, 2001

1"=30' 30 0 30 60 scale feet

TALBERT & BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1.	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2.	REVISIONS AS PER COUNTY COMMENTS	8/20/99
4	RECORD DRAWINGS	5/1/01

REVISIONS

GRADING AND DRAINAGE PLAN

Construct Access Road

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
8-14-00
PROFESSIONAL ENGINEER

Date	AUGUST 2000
Scale	1"=30'
Drawn	CIT
Checked	JWT
Project No.	4205-0002
Sheet No.	4
Of	8

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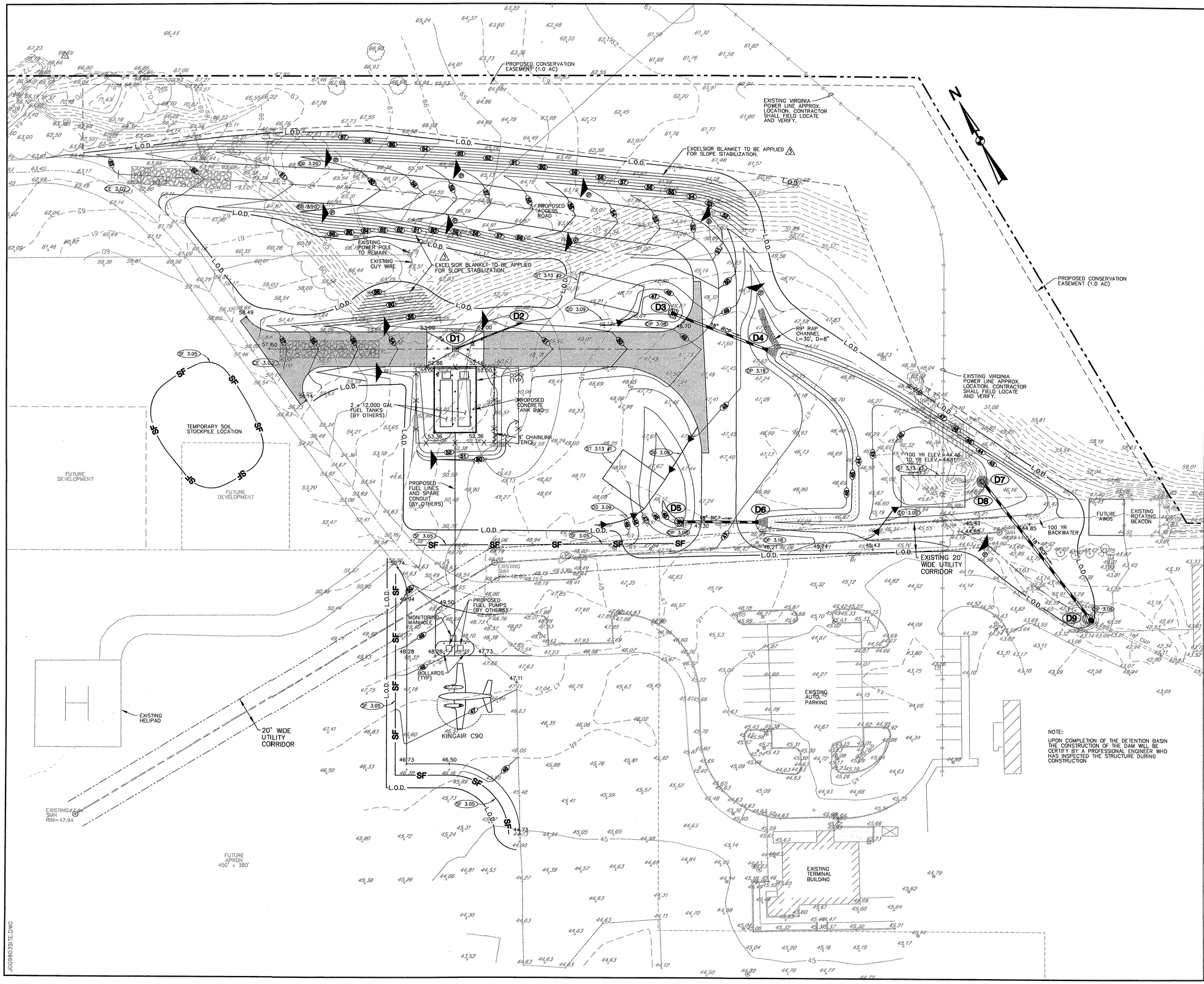
CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 010



NOTE:

UPON COMPLETION OF THE DETENTION BASIN THE CONSTRUCTION OF THE DAM WILL BE CERTIFY BY A PROFESSIONAL ENGINEER WHO HAS INSPECTED THE STRUCTURE DURING CONSTRUCTION

LEGEND

	EXISTING	PROPOSED
SPOT ELEVATION	14.18	+ 13.95
PROPERTY LINE		
1' CONTOURS	39	39
5' CONTOURS	40	40
100 YR BACKWATER		
OPEN SPACE LIMITS		
SANITARY MANHOLE		
STORM MANHOLE		
CLEAN OUT		
GAS VALVE		
WATER VALVE		
SPRINKLER HEADS		
LIGHT POLE		
SIGN		
UNDERGROUND PHONE BOX		
TELEPHONE PEDESTAL		
TREE LINE		
TREES		
FENCE		
GATES		
STORM SEWER (RCP) SIZE & CLASS AS NOTED		
FLARED END SECTION		
DITCH LINE C/L		
DIVERSION DIKE (SF 3.09)		
LIMITS OF DISTURBANCE		L.O.D.
SILT FENCE (SF 3.05)		SF
CHECK DAM (CD 3.20) PERMANENT STRUCTURE NOT INSTALLED IN PHASE I		
CHECK DAM (CD 3.20) TEMPORARY STRUCTURE		
CULVERT INLET PROTECTION (OP 3.20)		
CULVERT OUTLET PROTECTION (OP 3.18)		
ASPHALT PAVEMENT		
CONCRETE		

DRAINAGE SUMMARY

D3 18" FLARED END SECTION ES-1
INV. IN=47.76

D4 18" FLARED END SECTION ES-1
INV. OUT=44.12

D5 18" FLARED END SECTION ES-1
INV. IN=44.00

D6 18" FLARED END SECTION ES-1
INV. OUT=44.24

D7 18" CONC. TEE STAND PIPE
TOP=44.00
INV.=41.00

D9 DI-1, TOP=43.00, H=3.45' INV. IN=39.55
INV. OUT=39.45

D1 - D2 8" PVC PLASTIC PIPE, SLOPE=1.56%
50.0 LF

D3 - D4 18" RCP CLASS III, SLOPE=1.00%
64.0 LF

D5 - D6 18" RCP CLASS III, SLOPE=1.00%
48.0 LF

D8 - D9 18" RCP CLASS III, SLOPE=1.00%
123.0 LF

RECORD DRAWINGS
APRIL 24, 2000

1"=30' scale 30 0 30 60 feet

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1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
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4	RECORD DRAWINGS	04/24/00

REVISIONS

GRADING AND DRAINAGE PLAN

Construct & Install Fuel Tanks, Access Road, Apron

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	1"=30'
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	4
Of	10

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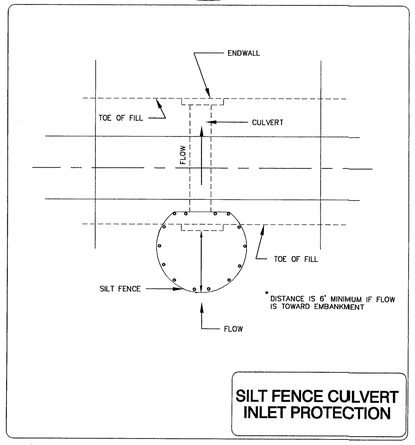
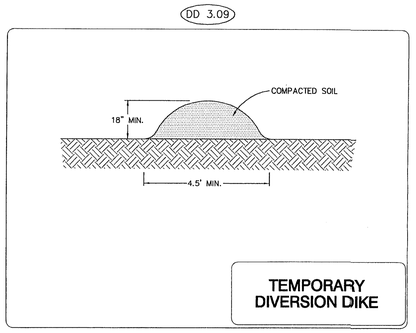
CIP 3.08



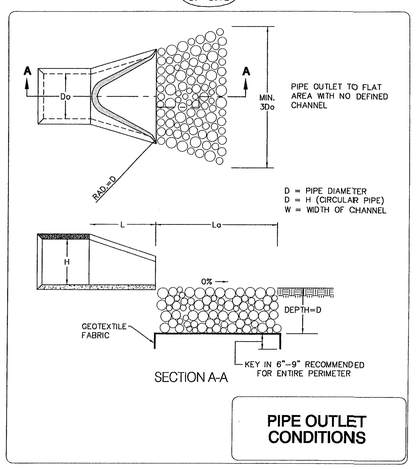
SILT FENCE CULVERT INLET PROTECTION

DD 3.09



TEMPORARY DIVERSION DIKE

OP 3.18



PIPE OUTLET CONDITIONS

OUTLET PROTECTION DETAIL

STRUCTURE	La	d	QUANITY
D3 – D4	20'	6"	5 TONS
D5 – D6	20'	6"	5 TONS

SEQUENCE OF CONSTRUCTION

1. THE OWNER MUST GIVE THE COUNTY 48 HOURS NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING FOR THE ISSUANCE OF A LAND DISTURBANCE PERMIT.
2. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE AS PER PLANS.
3. BEGIN REMOVAL OF TREES FROM AREA OF SEDIMENT TRAPS. NO CONSTRUCTION SHALL BEGIN UNTIL ALL EROSION CONTROL DEVICES ARE IN PLACE.
4. INSTALL CULVERT INLET PROTECTION, CHECK DAMS AND SEDIMENT TRAPS (1,2 & 3)
5. BEGIN CLEARING AND GRUBBING OPERATIONS.
6. STABILIZE THE SITE WITH VEGETATION AND STRAW MULCH ACCORDING TO THE PROJECT SPECIFICATIONS.
7. BEGIN ROUGH GRADING OF ROAD AND FUEL FARM PAD.
8. INSTALL DRAINAGE DITCHES, UTILITIES AND STORM SEWER PIPES EXCLUDING PIPE D8-D9 AS PER PLANS.
9. INSTALL INLET PROTECTION ON ALL STORM SEWER PIPES AND CHECK DAMS TO ALL DITCHES AS PER PLANS.
10. FINE GRADE ROAD AND FUEL FARM PAD AREA.
11. PLACE BASE STONE, PAVEMENT AND CONCRETE AS SHOWN ON PLANS.
12. SEED DENUDED AREAS AS SOON AS POSSIBLE AND MULCH ALL DISTURBED AREAS.
13. REMOVE SEDIMENT TRAP # 3 AND INSTALL PIPE D8-D9. REGRADE AREA FOR BMP/SWM BASIN AND CONSTRUCT OUTLET STRUCTURE AS PER PLANS.
14. CONTINUING MAINTENANCE PRACTICES SHALL BE PERFORMED TO INSURE PROTECTION OF DOWNSTREAM PROPERTIES.
15. NO EROSION CONTROL DEVICES SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED.
16. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE TO BE CONSTRUCTED, MAINTAINED AND REMOVED IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION VR 625-02-00.

JAMES CITY COUNTY
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. In addition to these notes, all provisions of the Virginia Erosion and Sediment Control Regulations shall apply to this project.

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. Where sediment is transported onto a public road surface, the road shall be thoroughly cleaned at the end of each day.
3. A preconstruction meeting shall be held on site between the County, the Developer, the Project Engineer, and the Contractor prior to issuance of the Land Disturbing Permit. The Contractor shall submit a Sequence of Construction to the County for approval prior to the preconstruction meeting. The Contractor will supply the Environmental Division with the name of the individual who will be responsible for ensuring maintenance of installed measures on a daily basis.
4. 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 immediately after installation. Periodic inspections of the erosion control measures shall be made to assess their condition. Any necessary maintenance of the measures shall be accomplished immediately upon notification by the County and shall include the repair of measures damaged by any subcontractor including those of the public utility companies.
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. 3.10) 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. Environmental Division approval will be required for other deviations from the approved plans.
7. The contractor shall place soil stockpiles at the locations shown on this plan or as directed by the engineer. Soil stockpiles shall be stabilized or protected with sediment trapping measures. Off-site waste or borrow areas shall be approved by the Environmental Division prior to the import of any borrow or export of any waste to or from the project site.
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 or paved ditches where required. Any drainage outfalls required for a street must be completed before street grading or utility installation begins.
9. 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 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 feet of sanitary sewer, storm sewer, waterlines, or underground utility lines 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 3.35. Seeding will then take place as soon as the season permits.
12. 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 3.32, Permanent Seeding. Irrigation shall be required as necessary to ensure establishment of grass cover.
13. (2) 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 3.35, Mulching and Manufacturer's Instructions. No slopes shall be created steeper than 2:1.
14. Inlet protection in accordance with Specification 3.07 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 percent.
17. (2) Temporary erosion control measures such as silt fence are not to be removed until all disturbed areas are stabilized. After stabilization is complete, measures shall be removed within 30 days. Trapped sediment shall be spread and seeded.
18. (2) All sediment traps and basins shall remain in place until the road has been constructed and shall not be removed without authorization from the James City County Environmental Division.
19. As-build drawings must be provided for all detention/BMP facilities. Also upon completion, the construction of all detention/BMP facilities shall be certified by a professional engineer who inspected the structure during construction. The certification shall state that to the best of his/her judgement, knowledge, and belief, the structure was constructed in accordance with the approval plans and specifications.

RECORD DRAWINGS
APRIL 24, 2000

EROSION AND SEDIMENT CONTROL NARRATIVE AND NOTES

I. PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT AT THE WILLIAMSBURG-JAMESTOWN AIRPORT IS TO CONSTRUCT AN ACCESS ROAD AND CONSTRUCT A CONCRETE TANK PAD, FOR (2) 12,000 GAL STORAGE TANKS DISTURBED AREA = 3 ACRES.

RUNOFF FROM ALL DISTURBED AREAS ASSOCIATED WITH THIS PROJECT SHALL BE INTERCEPTED BY SILT FENCE, ROCK CHECK DAMS AND TEMPORARY SEDIMENT TRAPS.

II. EXISTING SITE CONDITIONS

THE SITE IS AN AREA APPROXIMATELY 3 ACRES IN SIZE WITH MODERATE TO STEEP SLOPES. ELEVATIONS WITHIN THE PROJECT AREA RANGE FROM 43 MSL TO 67 MSL. THE AREA ADJACENT TO THE EXISTING TAXIWAY IS COVERED WITH AVERAGE TO DENSE GRASS.

III. ADJACENT PROPERTY

THE PROJECT SITE IS LOCATED IN THE NORTH WESTERN QUADRANT OF THE WILLIAMSBURG-JAMESTOWN AIRPORT TERMINAL AREA. THE SURROUNDING PROPERTIES ADJACENT TO THE NORTH AND WEST ARE CURRENTLY UNDEVELOPED.

IV. SOILS

THE FOLLOWING SOIL TYPE OCCUPIES THE MAJORITY OF THE PROJECT SITE:

CL, SM AND SC

COMPRISED OF ANY OR ALL OF THE FOLLOWING:
DARK BROWN SILTY FINE SANDY CLAY, BROWN SILTY FINE SANDY AND DARK GRAY SILTY CLAYEY FINE SAND.

V. CRITICAL EROSION AREAS

THE POTENTIAL CRITICAL AREAS ARE THE PROPOSED OUTFALLS FROM THE PROJECT SITE AND THE TIE-IN SLOPES FOR THE ACCESS ROAD. SILT FENCE AND ROCK CHECK DAMS WILL BE USED TO PROTECT ADJACENT SITE AREAS FROM SEDIMENT DEPOSITION. WHEREEVER GRADING IS NECESSARY, ADEQUATE PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EROSION AND TRAP SEDIMENT ON THE SITE.

VI. MANAGEMENT STRATEGIES AND SEQUENCE OF EROSION CONTROL MEASURES

Unless otherwise indicated, all erosion and sediment control practices shall be constructed and maintained in accordance with the minimum standards and specifications of the latest edition of the VE&SCR and VE&SC Handbook.

The following sequence of events for erosion and control measures shall be incorporated into the construction schedule for this project and shall apply to all construction activities within the project limits:

1. a. Temporary construction entrance(s) shall be provided at the location(s) shown on the plans. This entrance(s) shall be constructed in accordance with the Virginia Erosion and Sediment Control Handbook (Std. & Spec. 3.02.). Washracks are to be provided where water is avliable

   b. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment onto the paved surface. Where sediment is transported onto a public road surface, the road shall be cleaned throughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as larger land disturbing activities.

   c. Construction traffic shall be limited to access roads. As traffic is prohibited from crossing drainage swales and streams except where absolutely necessary (Std. & Spec. 3.24 VE&SC Handbook).

2. Temporary sediment traps, sediment barriers, construction entrance, and erosion control stone are to be placed prior to clearing and grubbing or prior to the first phase of construction.
3. All permanent storm water management facilities including erosion control are to be installed and made operational at the start of clearing operations, including approved sediment basins.
4. The contractor shall complete drainage facilities within thirty (30) days following completion of rough grading at any point within the project.
5. Construction will be sequenced so that grading operations can begin and end as quickly as possible.
6. Areas which are not to be disturbed will be clearly marked by fencing, flags, signs, etc.
7. a. Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven (7) says to denuded areas that may not be at final grade but will remain dormant (undisturbed) for longer than thirty (30) days. Permanent stabilization shall be applied to areas that are to be left dormant for more than (1) year.

   b. During construction of the project, soil stockpiles shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.

   c. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that, in the opinion of the local program administrator or his designated agent, is uniform and mature enough to survive and will inhibit erosion. Vegetative cover shall be established as follows:

Seed	Application rate = 10 lb/1,000 sf
Lime	Application rate = 2 ton Pelleted lime/1 AC
Fertilizer	Application rate = 600 lb/1 AC
Mulch	Application rate = 2 tons/1 AC

   (Hysdroseeding may be used in place of mulching on areas other than ditch banks). Stabilization measures shall be applied to earthen structures such as dams, diversions, ditches, water course beds and banks immediately after installation (Std. & Spec. 3.36 VE&SC Handbook).

8. Before newly constructed conveyance channels are made operational, adequate outlet protection and required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
9. a. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one (1) year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.

   b. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume, or slope drain structure.

10. Periodic inspections and required maintenance must be provided, especially after each significant storm event. The project superintendent shall be responsible for the installation and maintenance of all erosion and sediment control practices.
11. The plan approving authority must be notified one (1) week prior to the preconstruction conference, one (1) week prior to the commencement of land activity, and one (1) week prior to the final inspection.
12. All temporary erosion and sediment control measures shall be removed within thirty (30) days after final site stabilization or after the temporary measures are no longer needed unless otherwise authorized by the local program administrator. Trapped sediment and the disturbed soils areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

MAINTENANCE

In general, all erosion and sedimentation control measures shall be checked after each rainfall or weekly, whichever is most frequent, and should be cleaned and repaired according to the following schedule:

1. The sediment traps will be checked regularly for sediment buildup.
2. Erosion and sediment control will be checked regularly for undermining, deterioration, buildup or clogging with sediment. Corrective action will be taken immediately.
3. All seeded areas will be checked regularly to see that a good stand of grass is maintained. Areas should be fertilized and reseeded as needed.
4. All temporary erosion and sediment measures shall be removed within (30) days after final site stabilization is achieved and vegetation is established.

TALBERT&BRIGHT
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10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2	REVISIONS AS PER COUNTY COMMENTS	7/28/99
3	RECORD DRAWINGS	04/24/00

REVISIONS

EROSION AND SEDIMENT CONTROL NOTES

Construct & Install Fuel Farm, Access Road, Apron

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	6
Of	10

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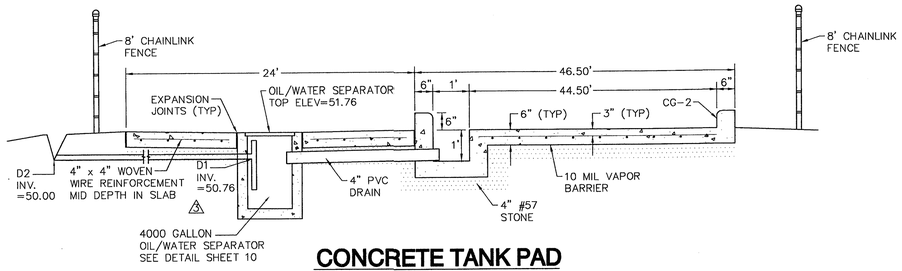
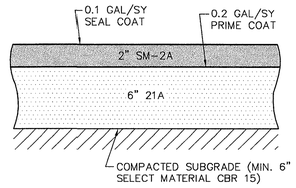


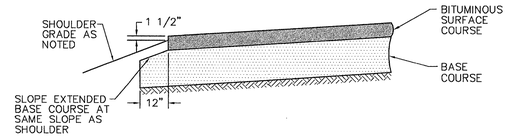
CONCRETE TANK PAD PAVEMENT SECTION

NOT TO SCALE



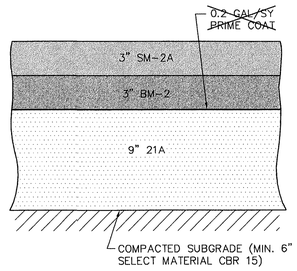
12,500 LBS APRON PAVEMENT SECTION

NOT TO SCALE



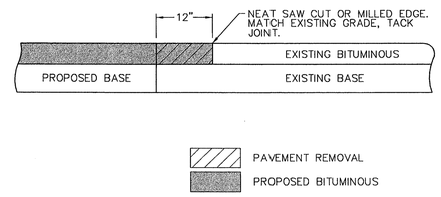
PAVEMENT EDGE DETAIL

NOT TO SCALE



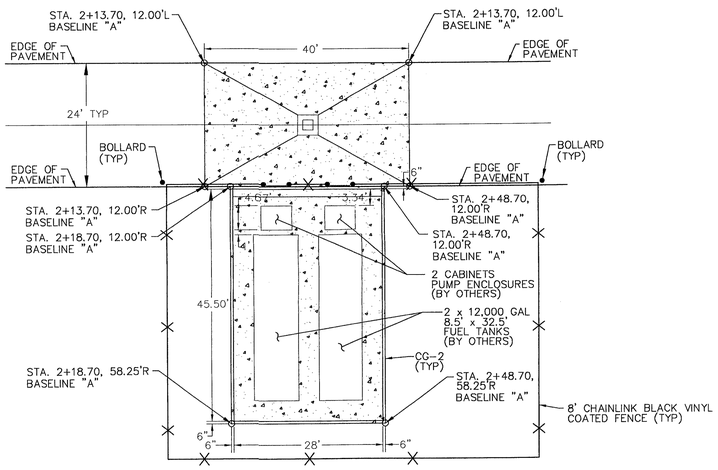
ACCESS ROAD PAVEMENT SECTION

NOT TO SCALE



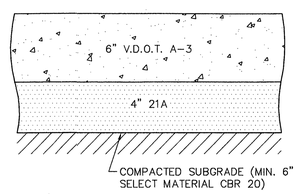
PAVEMENT TIE-IN DETAIL

NOT TO SCALE



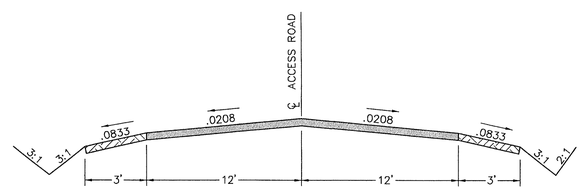
CONCRETE TANK PAD PLAN VIEW

NOT TO SCALE



FUEL TANK PAD TYPICAL SECTION

NOT TO SCALE



ACCESS ROAD TYPICAL SECTION

NOT TO SCALE

RECORD DRAWINGS
APRIL 24, 2000

JCG980375.DWG

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
2	REVISIONS AS PER COUNTY COMMENTS	8/20/99
4	RECORD DRAWINGS	04/24/00

REVISIONS

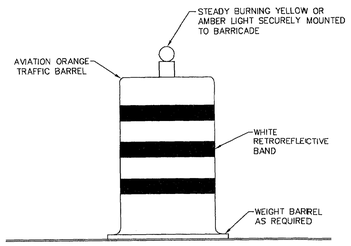
TYPICAL SECTIONS AND PAVEMENT DETAILS

Construct & Install Fuel Farm, Access Road, Apron

Williamsburg-Jamestown Airport - Williamsburg, Virginia

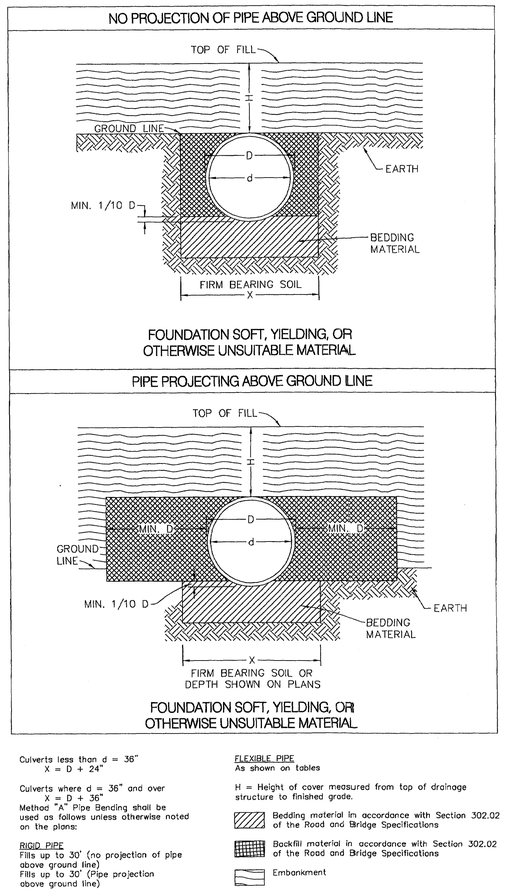
COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	7
Of	10



TRAFFIC BARREL

NOT TO SCALE



Culverts less than d = 36"
X = D + 24"

Culverts where d = 36" and over
X = D + 36"
Method "A" Pipe Bending shall be used as follows unless otherwise noted on the plans:

RIGID PIPE
Fills up to 30' (no projection of pipe above ground line)
Fills up to 30' (Pipe projection above ground line)

FLEXIBLE PIPE
As shown on tables

H = Height of cover measured from top of drainage structure to finished grade.

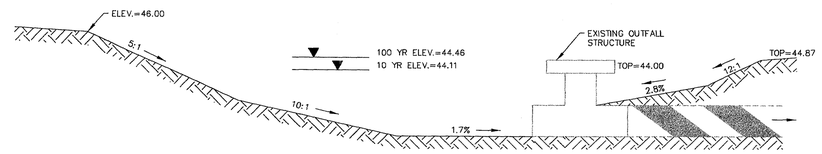
Bedding material in accordance with Section 302.02 of the Road and Bridge Specifications

Backfill material in accordance with Section 302.02 of the Road and Bridge Specifications

Embankment

INSTALLATION OF PIPE CULVERTS AND STORM SEWERS

NOT TO SCALE



BMP BASIN PROFILE

NOT TO SCALE

RECORD DRAWINGS
MAY 1, 2001

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1.	REVISIONS AS PER COUNTY/DCAV COMMENTS	6/9/99
2	REVISIONS AS PER COUNTY COMMENTS	8/27/99
4	RECORD DRAWINGS	5/1/01

REVISIONS

MISCELLANEOUS DETAILS

Construct Access Road

Williamsburg-Jamestown Airport - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
8-14-00
PROFESSIONAL ENGINEER

Date	AUGUST 2000
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-0002
Sheet No.	8
Of	8

JOB0002MD.DWG

PANEL "MDP"

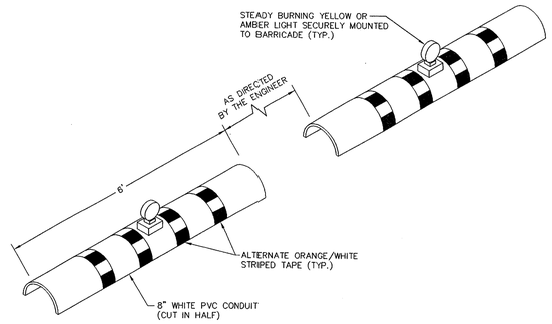
3 PHASE, 4 WIRE, 120/208 VOLTS, 200 AMPERE BUS, 200 AMPERE MAIN CIRCUIT BREAKER, 100 % NEUTRAL, SURFACE MOUNTING, NEMA - 4X ENCLOSURE, EQUIPMENT GROUND BUS, INTEGRATED EQUIPMENT RATING OF 10,000 RMS SYMMETRICAL AMPERES MINIMUM

DESIGNATION TO BE TYPED IN PANEL CIRCUIT DIRECTORY	PHASE LOADING A	B	C	CKT. BKR. TRIP	CKT. NO.	A B C	CKT. NO.	CKT. BKR. TRIP	PHASE LOADING A	B	C	DESIGNATION TO BE TYPED IN PANEL CIRCUIT DIRECTORY
JET "A" PUMPING UNIT (7.5hp)	2904			3/40				3/40	2904			AVGAS PUMPING UNIT (7.5hp)
		2904			1		2			2904		
			2904								2904	
SPARE	—			1/20	3		4	1/20	—			SPARE
SPARE		—		1/20	5		6	1/20		—		SPARE
SPARE			—	1/20	7		8	1/20			—	SPARE
SPARE	—			1/20	9		10	1/20	—			SPARE
SPARE		—		1/20	11		12	1/20		—		SPARE
SPACE			—		13		14				—	SPACE
	—				15		16		—			
		—			17		18			—		
			—		19		20				—	
	—				21		22		—			
		—			23		24			—		
			—		25		26				—	
	—				27		28		—			
		—			29		30			—		
			—		31		32				—	
	—				33		34		—			
		—			35		36			—		
			—		37		38				—	

NAMEPLATE ENGRAVING:
PANEL "MDP"
120/208 VOLTS, 3ø, 4W, 200 AMPS

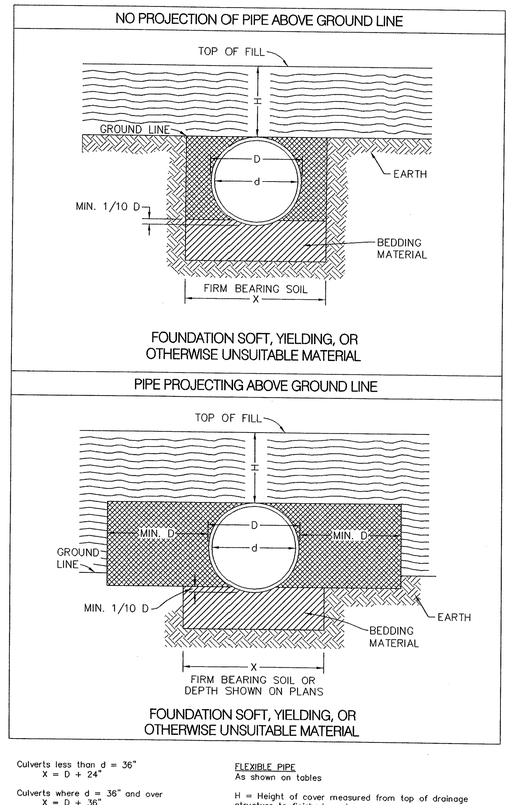
DISTRIBUTION PANEL

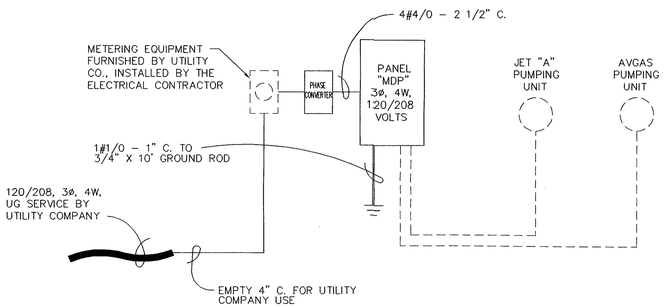
NOT TO SCALE



LOW PROFILE AVIATION BARRICADE

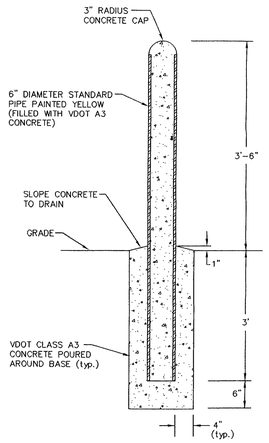
NOT TO SCALE





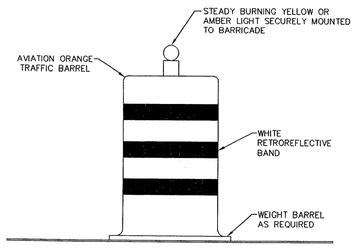
POWER RISER DIAGRAM

NOT TO SCALE



PIPE BOLLARD DETAILS

NOT TO SCALE



TRAFFIC BARREL

NOT TO SCALE

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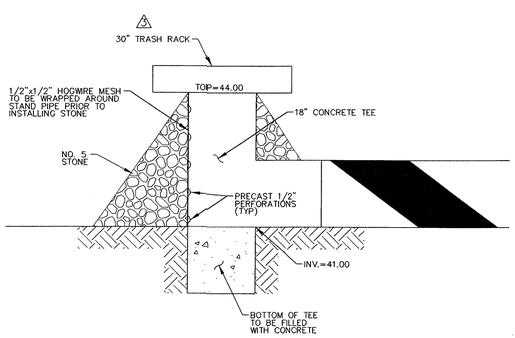
Backfill material in accordance with Section 302.02 of the Road and Bridge Specifications

Embankment

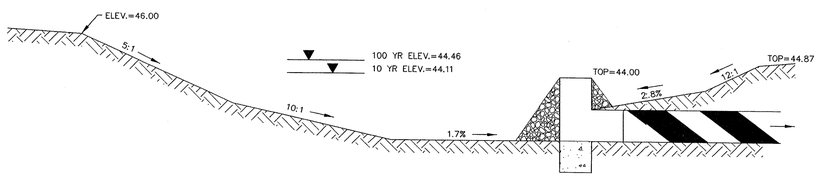
INSTALLATION OF PIPE CULVERTS AND STORM SEWERS

NOT TO SCALE



STAND PIPE DETAIL

NOT TO SCALE



BMP BASIN PROFILE

NOT TO SCALE

RECORD DRAWINGS
APRIL 24, 2000

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
1.	REVISIONS AS PER COUNTY/DOAV COMMENTS	6/9/99
3	REVISIONS AS PER COUNTY COMMENTS	8/20/99
4	RECORD DRAWINGS	04/24/00

REVISIONS

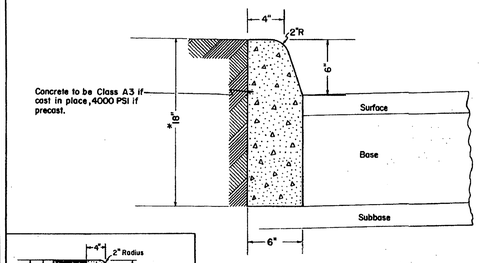
MISCELLANEOUS DETAILS
Construct & Install Fuel Tanks, Access Road, Apron
Williamsburg-Jamestown Airprot - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

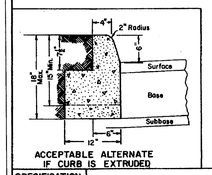
Date	MARCH 1999
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	9
Of	10

JGC9596DMDWG

CG-2



This item may be precast or cast in place.



ACCEPTABLE ALTERNATE IF CURB IS EXTRUDED

This curb is to be used when design speed is 40 MPH or less on Rural highways and 45 MPH or less in developed urban and suburban areas.

Note: Curb having a radius of 300 ft. or less (along face of curb) will be paid for as radial curb.

* The depth of curb may be reduced as much as 3" (15" depth) or increased as much as 3" (21" depth) in order that the bottom of curb will coincide with the top of a course of the pavement substructure. Otherwise the depth is to be 18" as shown. No adjustment in the price bid is to be made for a decrease or an increase in depth.

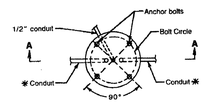
SPECIFICATION REFERENCE
105
502

STANDARD 6" CURB

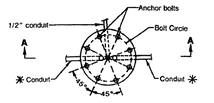
VIRGINIA DEPARTMENT *of* TRANSPORTATION

201.01

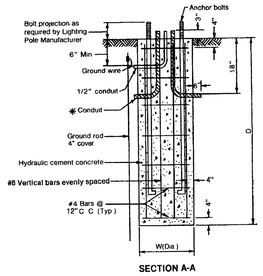
LF-1



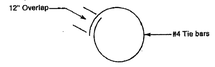
PLAN VIEW
TYPE A AND B



PLAN VIEW
TYPE C THRU F



SECTION A-A



PLAN VIEW

TYPE	W	D	VERTICAL BARS
A	2'-6"	6'-0"	8-#8
B	2'-6"	8'-0"	8-#8
C	3'-6"	12'-0"	14-#8
D	3'-6"	14'-0"	14-#8
E	3'-6"	16'-0"	14-#8
F	3'-6"	18'-0"	14-#8

NOTES:

Conduit elbows shall have a 90° bend. The bend radius shall be in accordance with the N E C.

The bolt circle template shall be furnished by the lighting pole manufacturer.

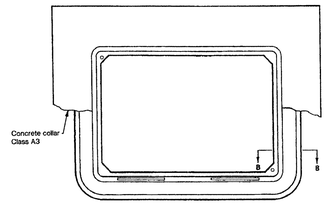
* The number, orientation and size of conduits entering and exiting foundations shall be as shown on plans.

LIGHTING POLE FOUNDATION INSTALLATION DETAILS

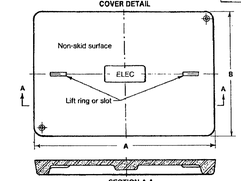
VIRGINIA DEPARTMENT OF TRANSPORTATION

1301.09

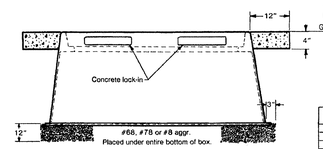
JB-1C,2C,3C,4C & 5C

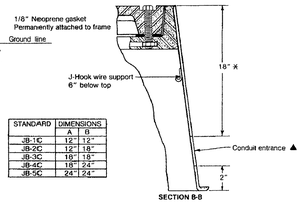


COVER DETAIL



SECTION A-A





SECTION B-B

STANDARD	DIMENSIONS	
	A	B
JB-1C	12"	12"
JB-2C	12"	18"
JB-3C	18"	18"
JB-4C	18"	24"
JB-5C	24"	24"

NOTE:

Conduit entrances shall be located as shown on the plans.

Bell ends shall be installed on the ends of PVC conduits.

Grounding bushings shall be installed on the ends of metal conduits.

* Depth of conduit entrance for use of magnetic detectors shall be in accordance with Sf.d. TD-2.

The junction box shall be of a polymer concrete with fiberglass sides.

The cover shall have a non-skid surface with letters cast in the depression on top. The letters "ELEC", "TRAF" or "UTILITY" (as applicable) are to be 1" wide and raised 1/4" high.

Two recessed 3 /8" Dia. Hex Head Bolts are required for each cover.

▲ A minimum 2" Dia. Conduit Entrance is required, unless otherwise specified on the plans.

A concrete collar is required only when junction box is installed in earth areas.

The junction box and cover shall be designed to withstand H-20 loading in accordance with AASHTO standard specifications for highway bridges HS20-44.

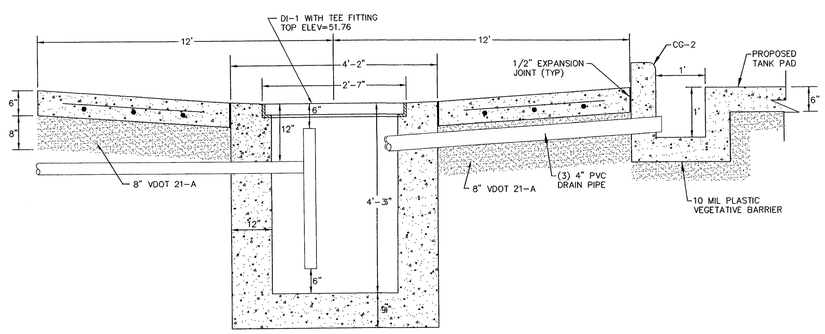
Conduits shall extend 2" min. to 3" max. beyond the inside wall of the junction box.

The junction box may be a two piece design with the top section no less than 17" in depth.

JUNCTION BOX

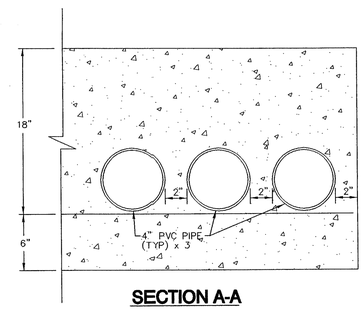
VIRGINIA DEPARTMENT OF TRANSPORTATION

1301.48

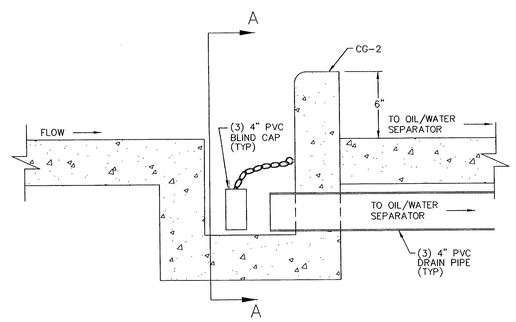


OIL/WATER SEPARATOR DETAIL

NOT TO SCALE



SECTION A-A



VALVE DETAIL

NOT TO SCALE

RECORD DRAWINGS
APRIL 24, 2000

TALBERT&BRIGHT
ENGINEERING & PLANNING CONSULTANTS
10105 KRAUSE ROAD, SUITE 100
CHESTERFIELD, VIRGINIA 23832
PHONE: 804-768-6878 FAX: 804-768-6871

REV. NO.	DESCRIPTION	DATE
3	REVISIONS AS PER COUNTY COMMENTS	8/20/99
4	RECORD DRAWINGS	04/24/00

REVISIONS

MISCELLANEOUS DETAILS

Construct & Install Fuel Tanks, Access Road, Apron

Williamsburg-Jamestown Airprot - Williamsburg, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL D. KANE
#020619
6-28-99
PROFESSIONAL ENGINEER

Date	MARCH 1999
Scale	NONE
Drawn	CIT
Checked	JWT
Project No.	4205-9803
Sheet No.	10
Of	10

"JCS98CMD.DWG

TALBERT & BRIGHT

June 21, 2001

Daryl Cook
James City County
Environmental Engineering
101-E Mounts Bay Road
Williamsburg, Virginia 23185

RE: Record Drawings
Construct Access Road
Williamsburg-Jamestown Airport
Williamsburg, Virginia
DOAV Project No. CS9010-20
TBI Project No. 4205-0002
JCC No. SP-55-99

Dear Daryl:

For your review and use, please find included with this letter two (2) copies of the record drawings for Phase I and Phase II of the "Fuel Farm Installation and Access Road Construction" project at the Williamsburg-Jamestown Airport. Also, included is a reproducible of the basin area.

If you have any questions or require additional information, please do not hesitate to contact this office.

Sincerely,

Steven T. Peterson
STP/

Enclosure

Cc: Jean Waltrip, Airport Manager — w/o enclosure
Larry Waltrip — w/ enclosure

Date Record Created:

Created By:

WS_BMPNO: CC020

Print Record

PRINTED ON
Wednesday, March 10, 201
3:08:59 PM

WATERSHED	CC
BMP ID NO	020
PLAN NO	SP-55-99
TAX PARCEL	(48-2)(1-5A)
PIN NO	4820100005A
CONSTRUCTION DATE	8/10/2001
PROJECT NAME	Williamsburg-Jamestown Airport
FACILITY LOCATION	Access Road-Fuel Tank Area
CITY-STATE	Williamsburg, Va. 23185
CURRENT OWNER	Williamsburg-Jamestown Airport Inc.
OWNER ADDRESS	100 Marclay Drive
OWNER ADDRESS 2	
CITY-STATE-ZIP CODE	Williamsburg, Va. 23185
OWNER PHONE	
MAINT AGREEMENT	Yes
EMERG ACTION PLAN	No

Get Last BMP No

Return to Menu

MAINTENANCE PLAN	No	CTRL STRUC DESC	Conc Tee
SITE AREA acre	116	CTRL STRUC SIZE inches	18
LAND USE	Airport	OTLT BARRL DESC	RCP Barrel
old BMP TYP	Dry Pond	OTLT BARRL SIZE inch	18
JCC BMP CODE	F2 Dry ED with forebay		
POINT VALUE	4	EMERG SPILLWAY	No
		DESIGN HW ELEV	44.46
		PERM POOL ELEV	na
SVC DRAIN AREA acres	4.1	2-YR OUTFLOW cfs	
		10-YR OUTFLOW cfs	
		REC DRAWING	Yes
SERVICE AREA DESCRI	Access Road, Fuel Tank & Apron area		
IMPERV AREA acres	0.82	CONSTR CERTIF	No
RECV STREAM	UT of College Creek		
EXT DET-WQ-CTRL	Yes	LAST INSP DATE 8/10/2004	Inspected by:
WTR QUAL VOL acre-ft	0	INTERNAL RATING	3
CHAN PROT CTRL	No	MISC/COMMENTS	
CHAN PROT VOL acre-ft	0		
SW/FLOOD CONTROL	Yes	Just NE of Terminal Bldg. Bond released 8/10/01. Perf riser w/ No. 5.	
GEOTECH REPORT	No		

Additional Comments:

WATERSHED	CC	MAINTENANCE PLAN	No	CTRL STRUC DESC	Conc Tee
BMP ID NO	020	SITE AREA acre	116	CTRL STRUC SIZE inches	18
PLAN NO	SP-55-99	LAND USE	Airport	OTLT BARRL DESC	RCP Barrel
TAX PARCEL	(48-02)(01-5A)	old BMP TYP	Dry Pond	OTLT BARRL SIZE inch	18
PIN NO	4820100005A	JCC BMP CODE			
CONSTRUCTION DATE	8/10/2001	POINT VALUE	4	EMERG SPILLWAY	No
PROJECT NAME	Williamsburg-Jamestown Airport			DESIGN HW ELEV	44.46
FACILITY LOCATION	Access Road-Fuel Tank Area			PERM POOL ELE	na
CITY-STATE	Williamsburg, Va. 23185	SVC DRAIN AREA acres	4.1	2-YR OUTFLOW cfs	
CURRENT OWNER	Williamsburg-Jamestown Airport Inc.			10-YR OUTFLOW cfs	
OWNER ADDRESS	100 Marclay Drive			REC DRAWING	Yes
OWNER ADDRESS 2		SERVICE AREA DESCRI	Access Road, Fuel Tank & Apron area		
CITY-STATE-ZIP CODE	Williamsburg, Va. 23185	IMPERV AREA acres	0.82	CONSTR CERTI	No
OWNER PHONE		RECV STREAM	UT of College Creek		
MAINT AGREEMENT	Yes	EXT DET-WQ-CTRL	Yes	LAST INSP DATE	
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	0	INTERNAL RATING	
		CHAN PROT CTRL	No	MISC/COMMENTS	
		CHAN PROT VOL acre-ft	0	Just NE of Terminal Bldg. Bond released 8/10/01. Perf riser w/ No. 5.	
		SW/FLOOD CONTROL	Yes		
		GEOTECH REPORT	No		

Get Last BMP No

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CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 019

Project: WILLIAMSBURG-JAMESTOWN AIRPORT - ACCESS ROAD, APRON AND FUEL TANKS

Site Plan No: SP-55-99 **Geo No:**
Fee Paid? ☐ **Fee Due:**
Date Paid:
Released? ☑ **Release Date:** 8/10/2001
Comments: **Notations**

LD Permit No: 00-08 **Fiscal Year:** 2000
Acres Disturbed: **Declaration of Covenant:** YES
LD Issue Date: 8/23/1999
LD Expire Date:
LD Comment: RELEASED 8/10/01

Cert Const? N/A **CC Iss Date:**
CC Expiration Date:
CC Comment:

Subdivisions

Issue Date: **Agreement?**
Surety:
Surety Type: **Amount:** $0
Notation: **Surety Released?** ☐
Expiration Date:
Comment:
Surety Number:
Surety Company:

Siltation

Agreement? YES **Surety:** BOND - 22,000
Surety Type: BOND **Amount:** $22,000
Notation: **Surety Released:** ☑
Expiration Date:
Comments: RELEASED 8/10/01
Surety Number: NATIONAL GRANGE MUTAL INS
Surety Company:

Delete Record | Undo Record | Last Permit No | Add Record | Find Record | Save Record | Menu Screen

Ann to DA 2 Schedule — CC

48201 00005A
Ann 100 Marclay Rd.

owner: Wmbg — Jamestown Airport Inc
100 Marclay Dr
Wmbg VA 23185

116 AC.
Zon R8AA

CC020_WILLIAMSBURG_JAMESTOWN_AIRPORT_ACCESS_RD_FUEL_TANK_AREA - 021