Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 01/11/2008	Task #: 2008011119112201001	Request #: 20080111191122
Procedure: SID ARSENAL THREE MANASSAS VA KHEF		Airport ID: KHEF	Airport: MANASSAS RGNL/HARRY P DAVIS FL		Reimbursable #:
City: MANASSAS	ST: VA	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID:	Fac. Type: Proc T	Specialist: STEVE BRUMMETT			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/10/2012	09/07/2012	MARLON ROBINSON	
QA:	09/07/2012	09/20/2012	DAVID PUGLISI	
Liaison:	09/20/2012		Spurlin	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

MANASSAS, VA MANASSAS RGNL/HARRY P DAVIS FL (KHEF) ARSENAL THREE (SID) ENROUTE-YES FC: 11.13.12 PUB: 1.10.13

ATTACHED FORMS: 8260-15B; 8260-15C; 8260-2(S): CASANOVA (CSN) VTAC, REV 15; DAWNZ-INT, REV 1; FLUKY-INT, REV 13; GADZI-INT, REV 2; GORDONSVILLE (GVE) VTAC, REV 14; MONTEBELLO (MOL) VDME, REV 12; SHRLI-INT, REV 1; WITTO-INT, REV 5; WOOLY-INT, REV 9; (INFO ONLY) LINDEN (LDN) VTAC, REV 8; MARTINSBURG (MRB) VTAC, REV 20.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

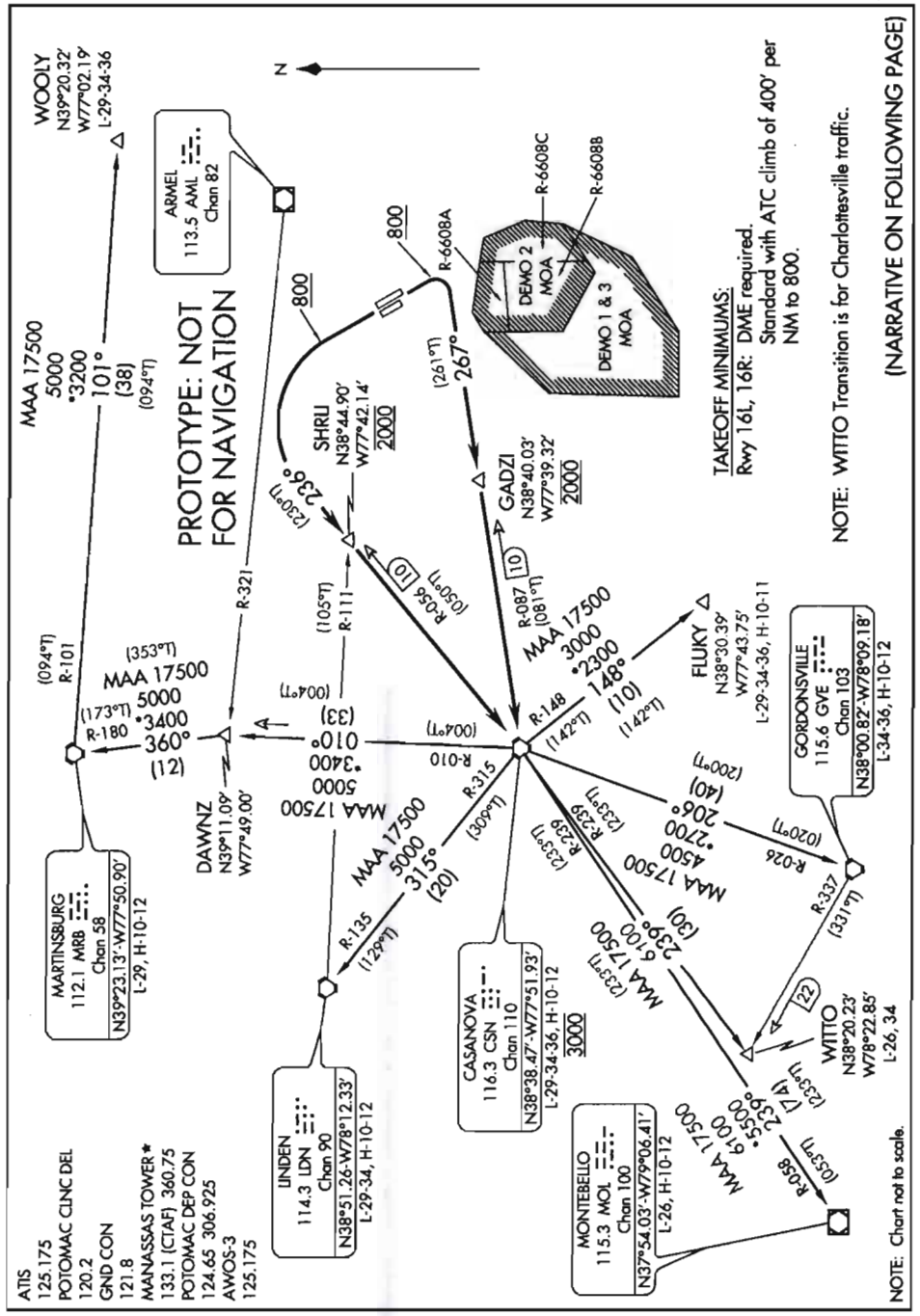
(ARSNL3.CSN) FIG

ARSENAL THREE DEPARTURE

SL-5326 (FAA)

MANASSAS RGNL/ HARRY P. DAVIS FIELD (HEF)

WASHINGTON, DC



ARSENAL THREE DEPARTURE

(ARSNL3.CSN) FIG

WASHINGTON, DC

MANASSAS RGNL/HARRY P. DAVIS FIELD (HEF)

(ARSNL 3. CSN FIG

ARSENAL THREE DEPARTUR E SL-5326 (FAA)

MANASSAS RGNL / HARRY P. DAVIS FIELD (HEF)
WASHINGTON, DC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 34L/R: CLIMB HEADING 340.61 TO 800, THEN CLIMBING LEFT TURN ON CSN R-056. CROSS SHRLI INT/CSN VORTAC 10 DME AT 2000, CROSS CSN VORTAC AT 3000 THENCE...

TAKEOFF RWY 16L/R: CLIMB HEADING 160.61 TO 800, THEN CLIMBING RIGHT TURN ON CSN R-087. CROSS GADZI/ CSN VORTAC 10 DME AT 2000, CROSS CSN VORTAC AT 3000 THENCE...

.... VIA ASSIGNED TRANSITION.

PROTOTYPE NOT FOR NAVIGATION

FLUKY TRANSITION (ARSNL2.FLUKY): From over CSN VORTAC via CSN R-148 to FLUKY INT.
GORDONSVILLE TRANSITION (ARSNL2.GVE): From over CSN VORTAC via CSN R-206 and GVE R-026 to GVE VORTAC.
LINDEN TRANSITION (ARSNL2.LDN): From over CSN VORTAC via CSN R-315 and LDN R-135 to LDN VORTAC.
MARTINSBURG TRANSITION (ARSNL2.MRB): From over CSN VORTAC via CSN R-010 to DAWNZ INT, then via MRB R-180 to MRB VORTAC.
MONTEBELLO TRANSITION (ARSNL2.MOL): From over CSN VORTAC via CSN R-239 and MOL R-058 to MOL VOR/DME.
WITTO TRANSITION (ARSNL2WITTO): From over CSN VORTAC via CSN R-239 to WITTO INT.
WOOLY TRANSITION (ARSNL2.WOOLY): From over CSN VORTAC via CSN R-010 to DAWNZ INT, then via MRB R-180 to MRB VORTAC, then via MRB R-101 to WOOLY INT.

TAKE-OFF OBSTACLES:

NOTE: RWY 16L, TREES BEGINNING 54 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/311 FT MSL. TREE 1811 FT FROM DER, 158 FT LEFT OF CENTERLINE, 100 FT AGL/277 FT MSL. TREES BEGINNING 85 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/303 FT MSL.

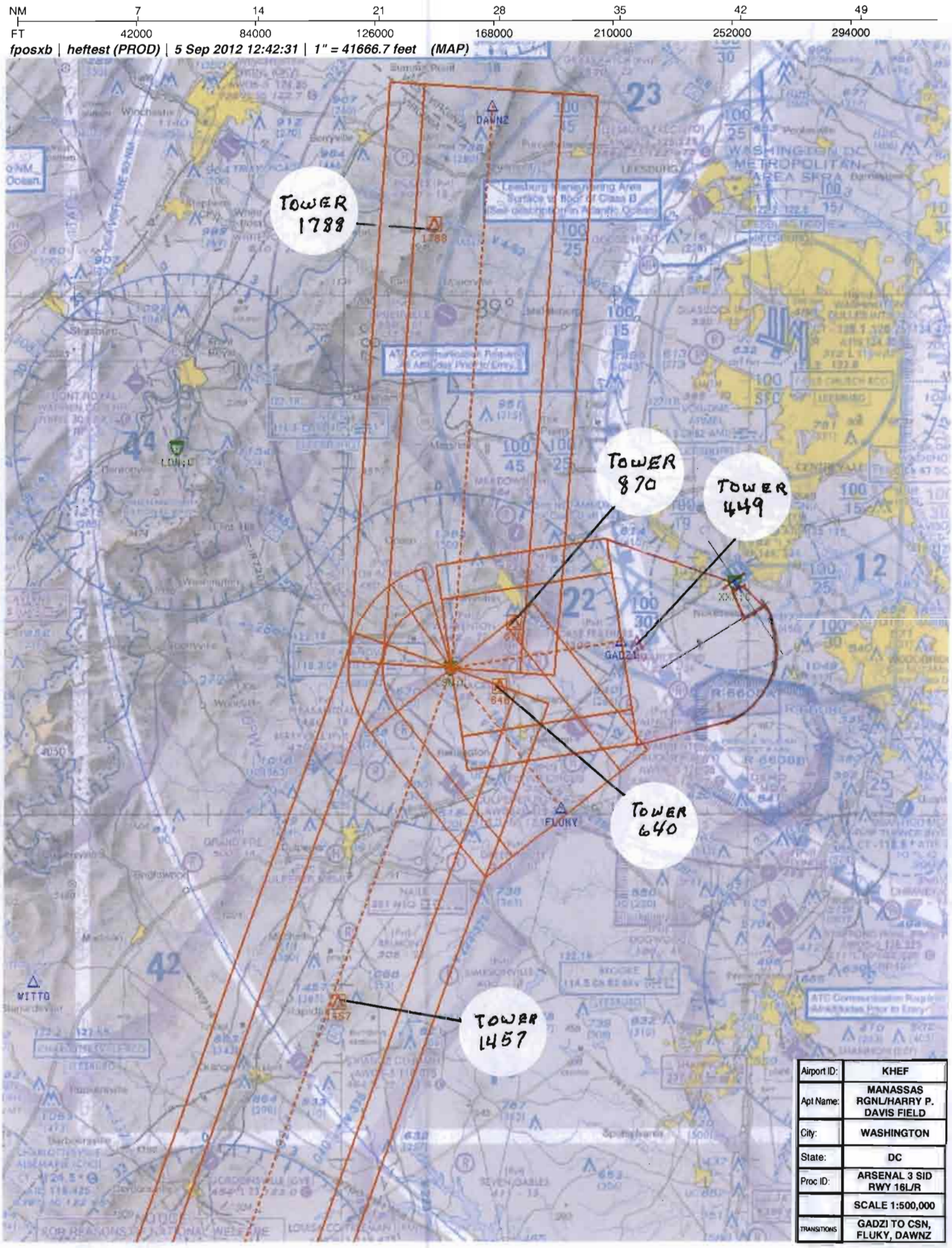
NOTE: RWY 16R, TREE 749 FT FROM DER, 10 FT LEFT OF CENTERLINE, 23 FT AGL/194 FT MSL. TREE 638 FT FROM DER, 563 FT RIGHT OF CENTERLINE, 67 FT AGL/227 FT MSL. TREES BEGINNING 119 FT FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 26 FT AGL/195 FT MSL. TREES 980 980FT FROM DER, 707 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/236FT MSL.

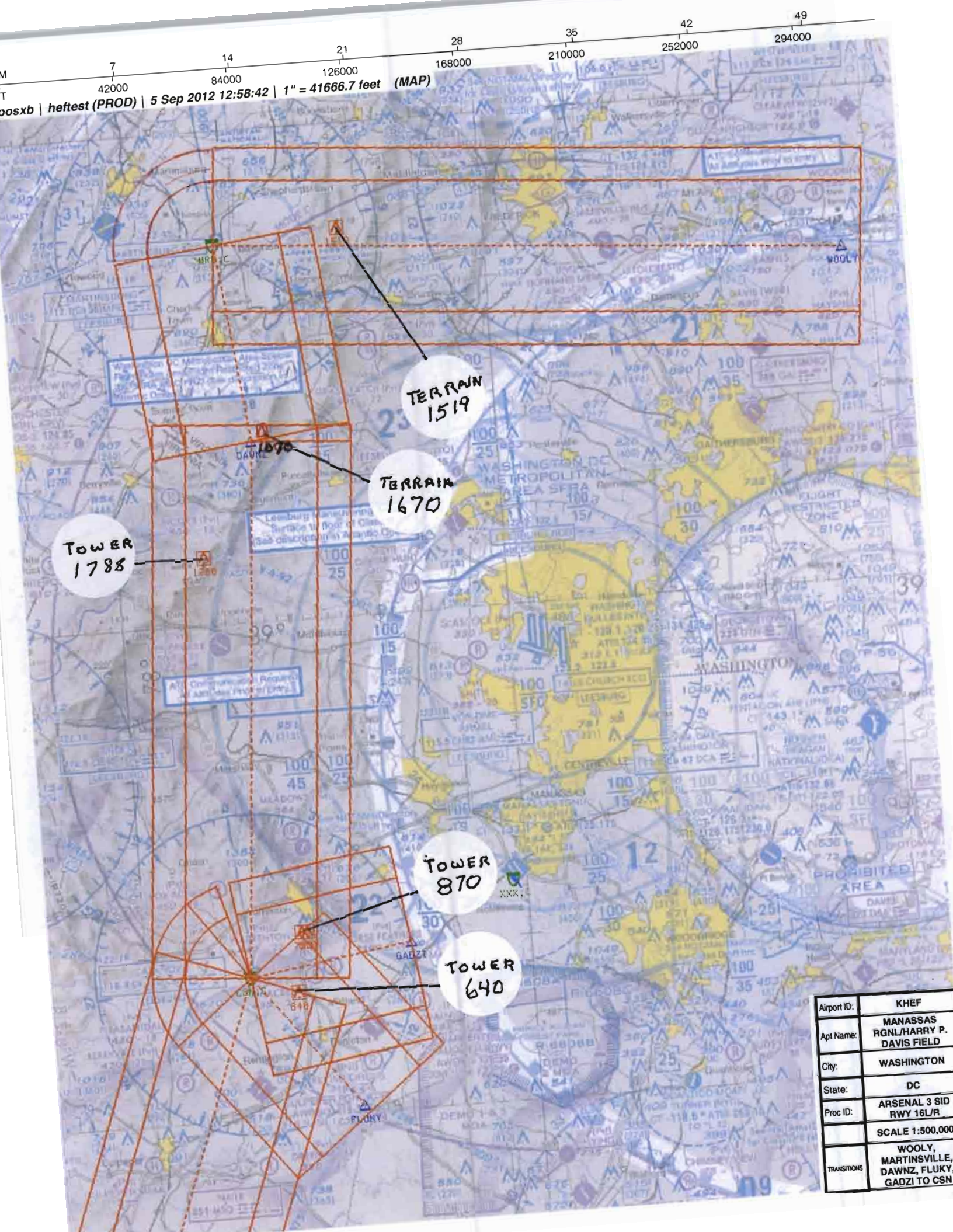
NOTE: RWY 34R, VEGETATION AND TREES BEGINNING 29 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/197 FT MSL. TREES 518 FROM DER, 596 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/206 FT MSL. SIGN 70 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 6 FT AGL/190 FT MSL. AIRFIELD LIGHTS BEGINNING 25 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/193 FT MSL. VEHICLE ON ROAD 198 FT FROM DER, 9 FT RIGHT OF CENTERLINE, 15 FT AGL/214 FT MSL.

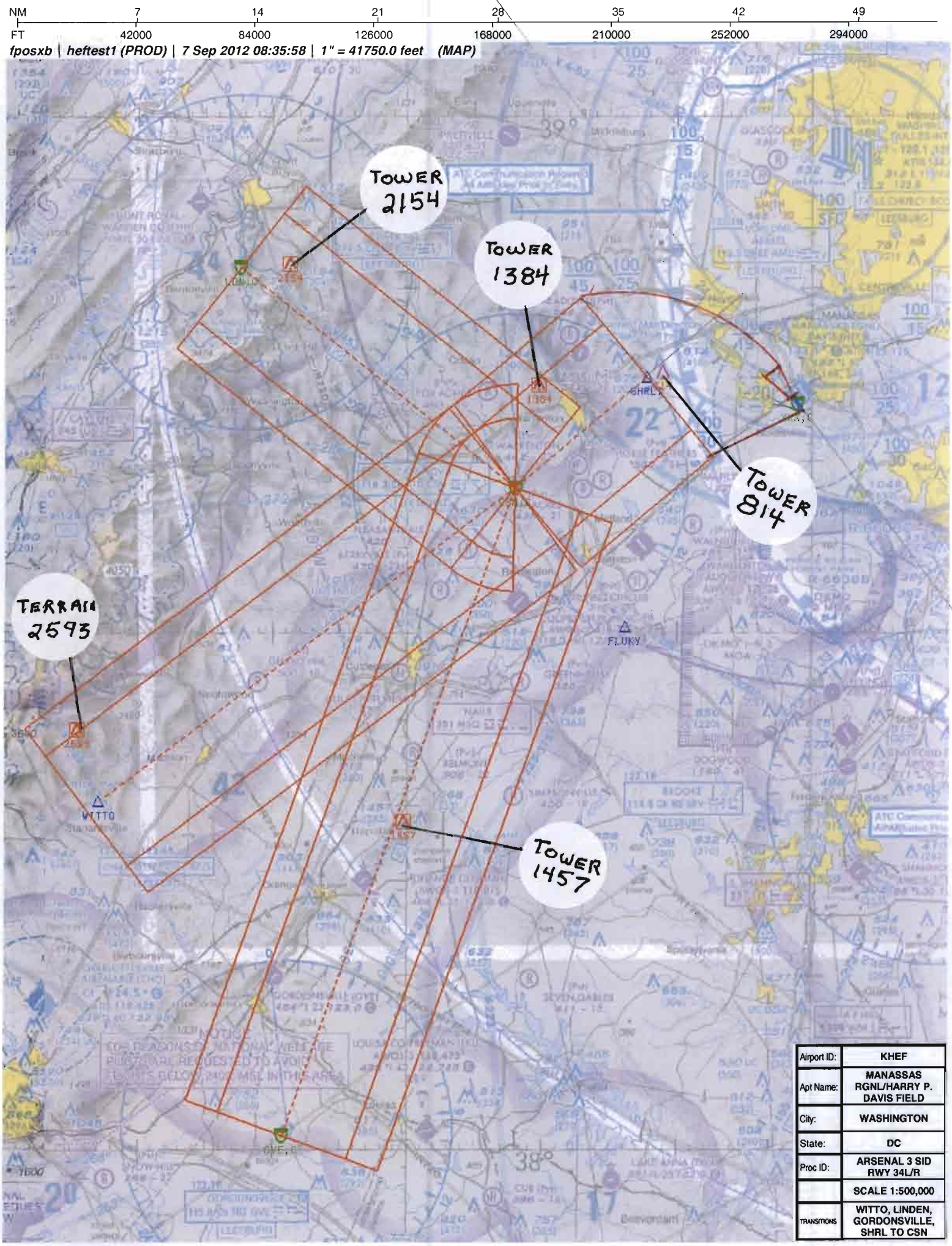
NOTE: RWY 34L, TREES BEGINNING 1154 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/283 FT MSL LIGHT POLES 1164 FT FROM DER, 759 FT LEFT OF CENTERLINE, 57 FT AGL/247 FT MSL. BUILDING 2121 FT FROM DER, 328 LEFT OF CENTERLINE, 32 FT AGL/242 FT MSL. TREES BEGINNING 1596 FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/233 FT MSL. VEHICLE ON ROAD 279 FT FROM DER, 130 FT RIGHT OF CENTERLINE 15 FT AGL/210 FT MSL. TOWER 3390 FT FROM DER, 1103 FT LEFT OF CENTERLINE 68 FT AGL/274 FT MSL.

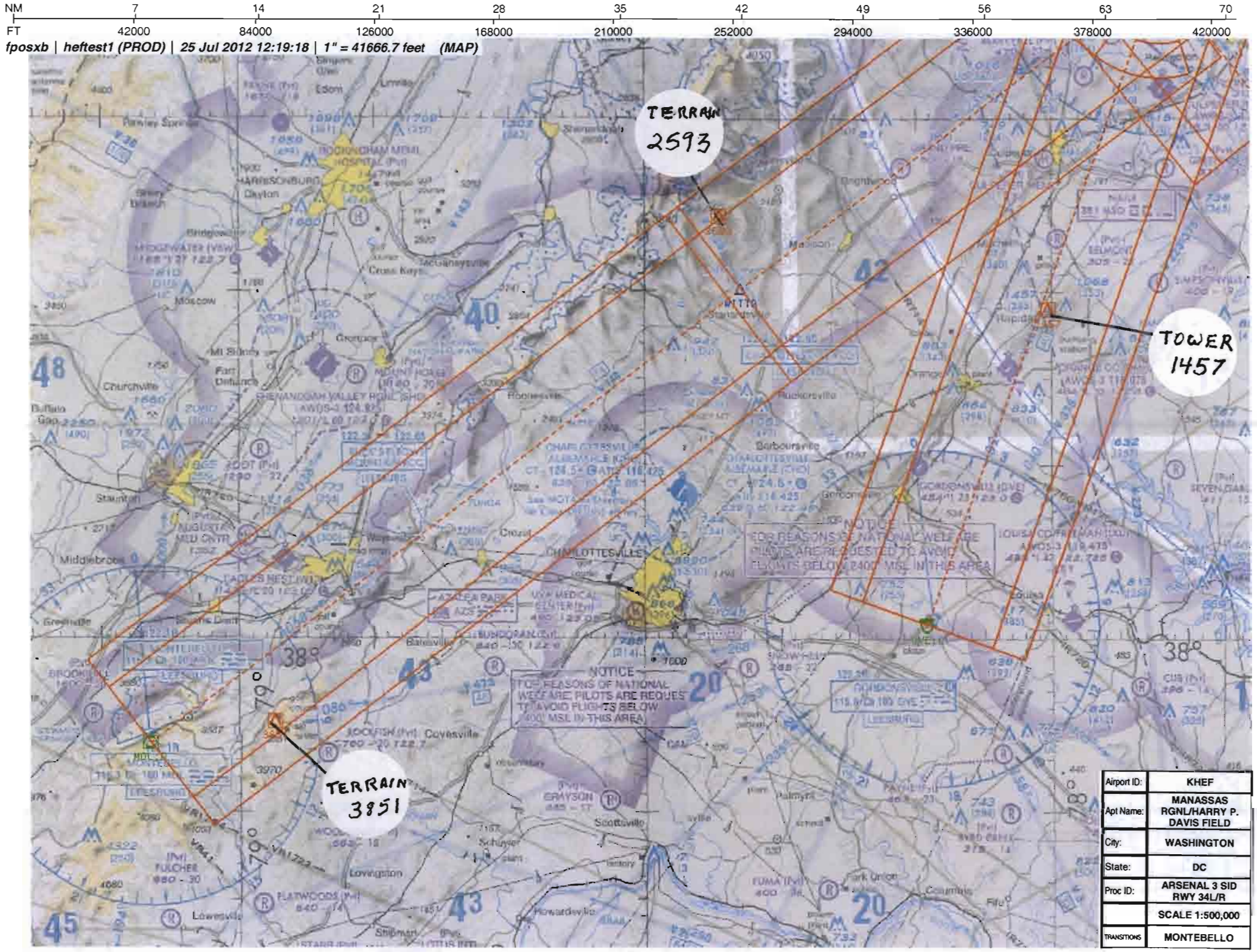
PROTOTYPE NOT FOR NAVIGATION

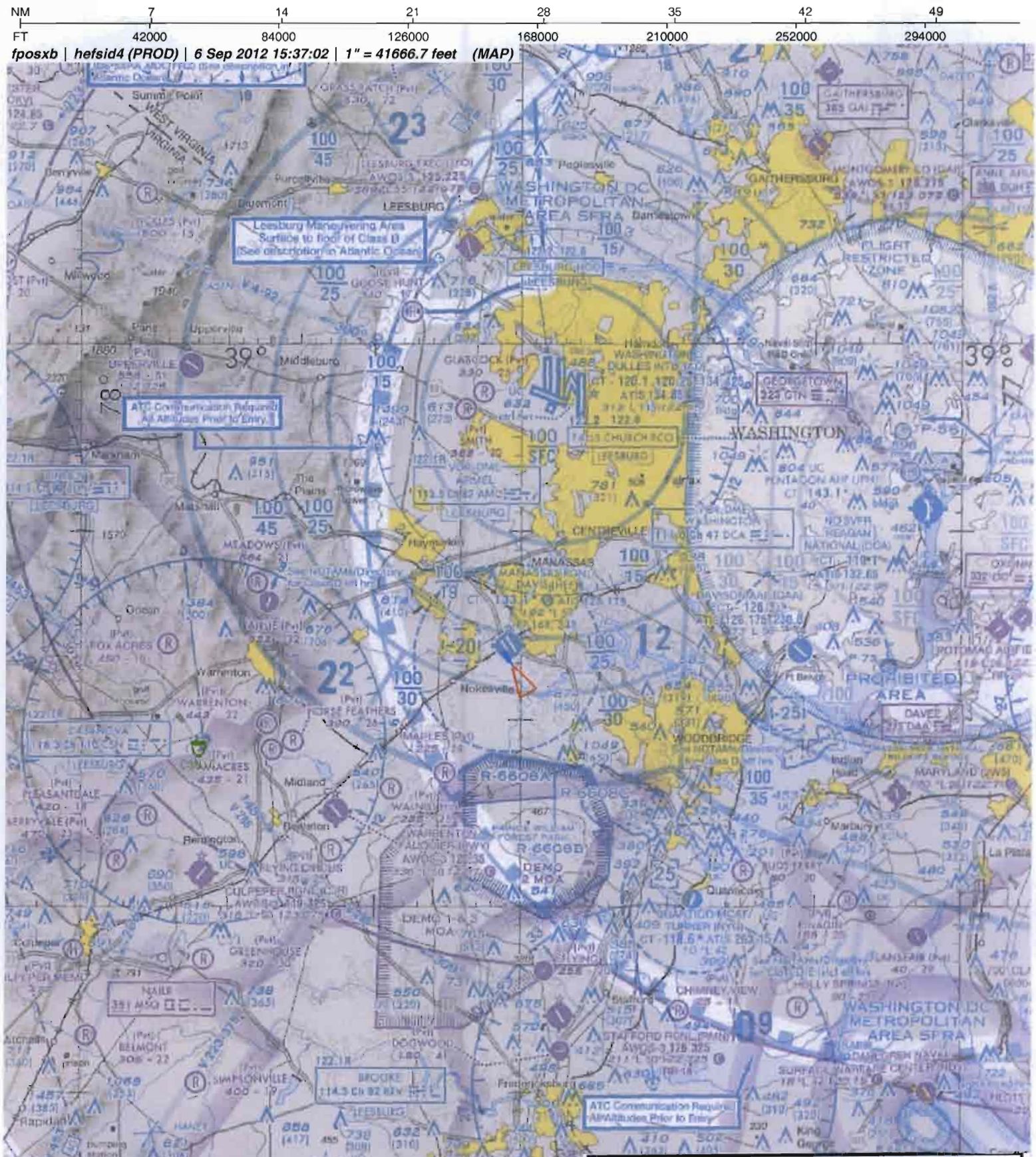
PROTOTYPE NOT FOR NAVIGATION


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fposxb | heftest (PROD) | 5 Sep 2012 12:42:31 | 1" = 41666.7 feet (MAP)
TOWER 1788
TOWER 870
TOWER 449
TOWER 640
TOWER 1457
DAWNZ
GADZI
FLUKY
WITTG
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 16L/R
SCALE 1:500,000
TRANSITIONS GADZI TO CSN, FLUKY, DAWNZ

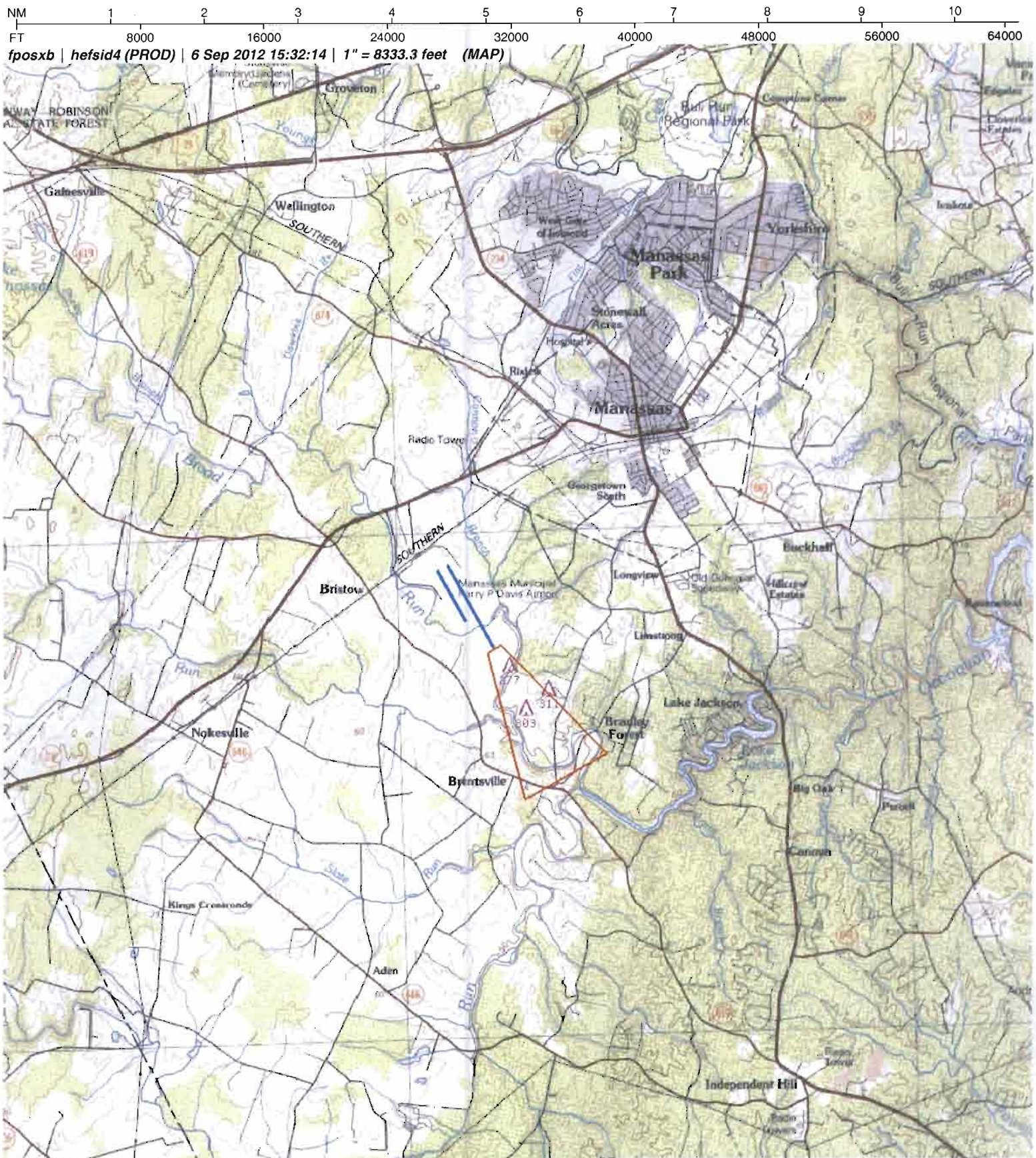

7 14 21 28 35 42 49
42000 84000 126000 168000 210000 252000 294000
poosxb | heftest (PROD) | 5 Sep 2012 12:58:42 | 1" = 41666.7 feet (MAP)
TERRAIN 1519
TERRAIN 1670
TOWER 1788
TOWER 870
TOWER 640
WOOLY
DAWNZ
GADZI
FLUKY
WASHINGTON
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 16L/R
SCALE 1:500,000
TRANSITIONS: WOOLY, MARTINSVILLE, DAWNZ, FLUKY, GADZI TO CSN


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fposxb | heftest1 (PROD) | 7 Sep 2012 08:35:58 | 1" = 41750.0 feet (MAP)
TOWER 2154
TOWER 1384
TOWER 814
TERRAIN 2593
TOWER 1457
WITTO
FLUKY
SHRL
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 34L/R
SCALE 1:500,000
TRANSITIONS WITTO, LINDEN, GORDONSVILLE, SHRL TO CSN

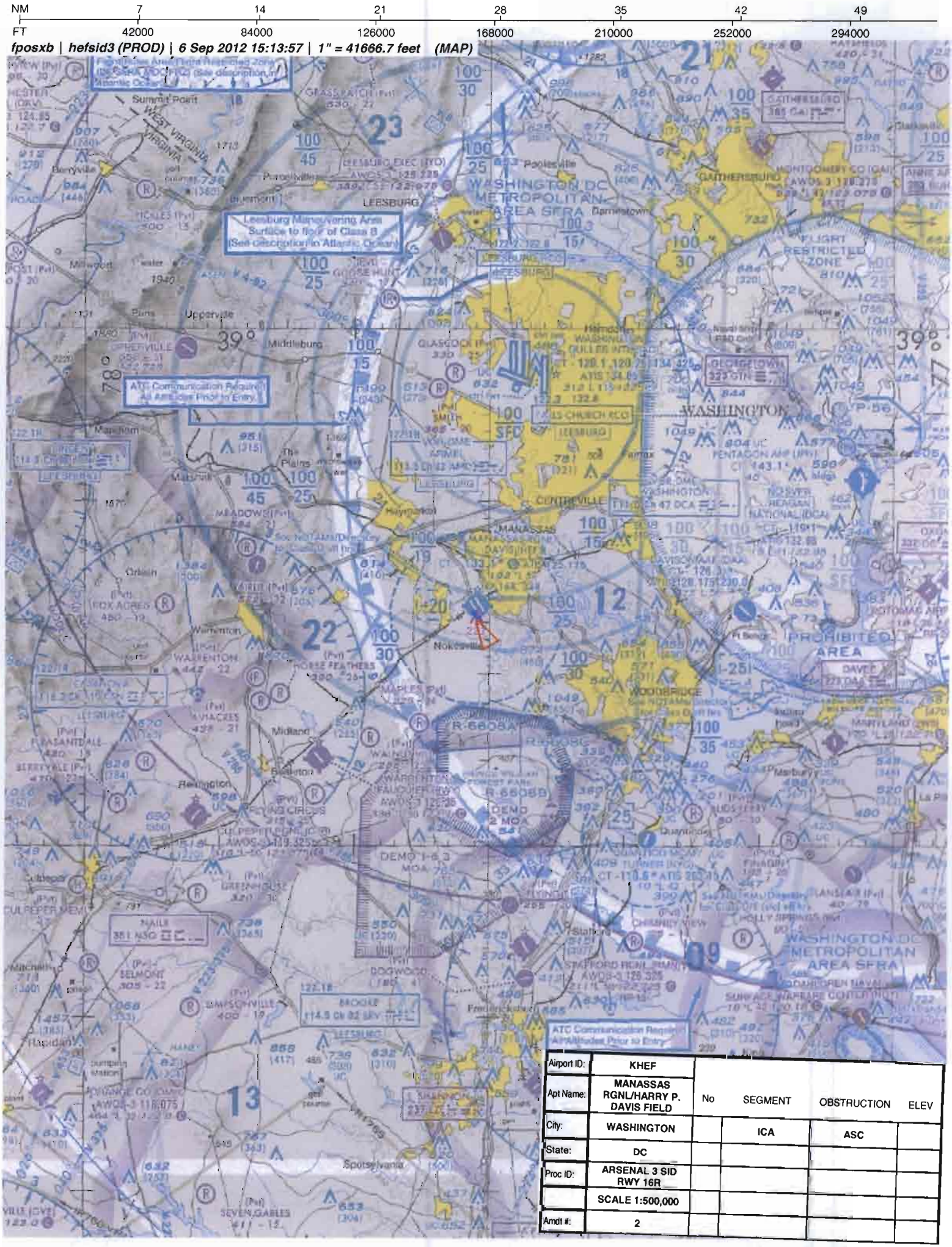

NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fposxb | heftest1 (PROD) | 25 Jul 2012 12:19:18 | 1" = 41666.7 feet (MAP)
TERRAIN 2593
TOWER 1457
TERRAIN 3851
NOTICE FOR REASONS OF NATIONAL WELFARE, PILOTS ARE REQUESTED TO AVOID FLIGHTS BELOW 2400' MSL IN THIS AREA
NOTICE FOR REASONS OF NATIONAL WELFARE, PILOTS ARE REQUESTED TO AVOID FLIGHTS BELOW 2400' MSL IN THIS AREA
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 34L/R
SCALE 1:500,000
TRANSITIONS MONTEBELLO

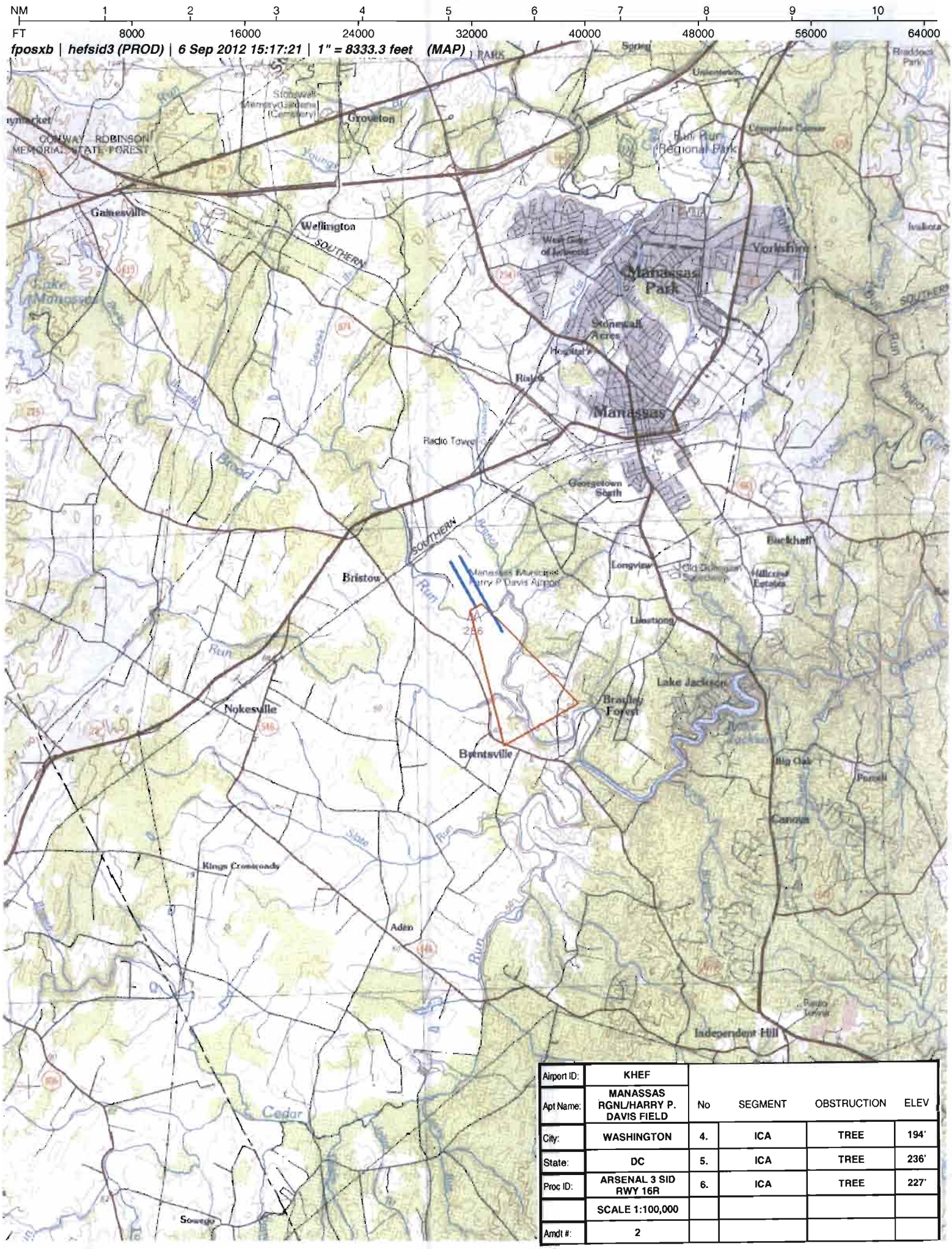


Airport ID:	KHEF	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	MANASSAS RGNL/HARRY P. DAVIS FIELD				
City:	WASHINGTON		ICA	ASC	
State:	DC				
Proc ID:	ARSENAL 3 SID RWY 16L				
	SCALE 1:500,000				
Amdt #:	2				

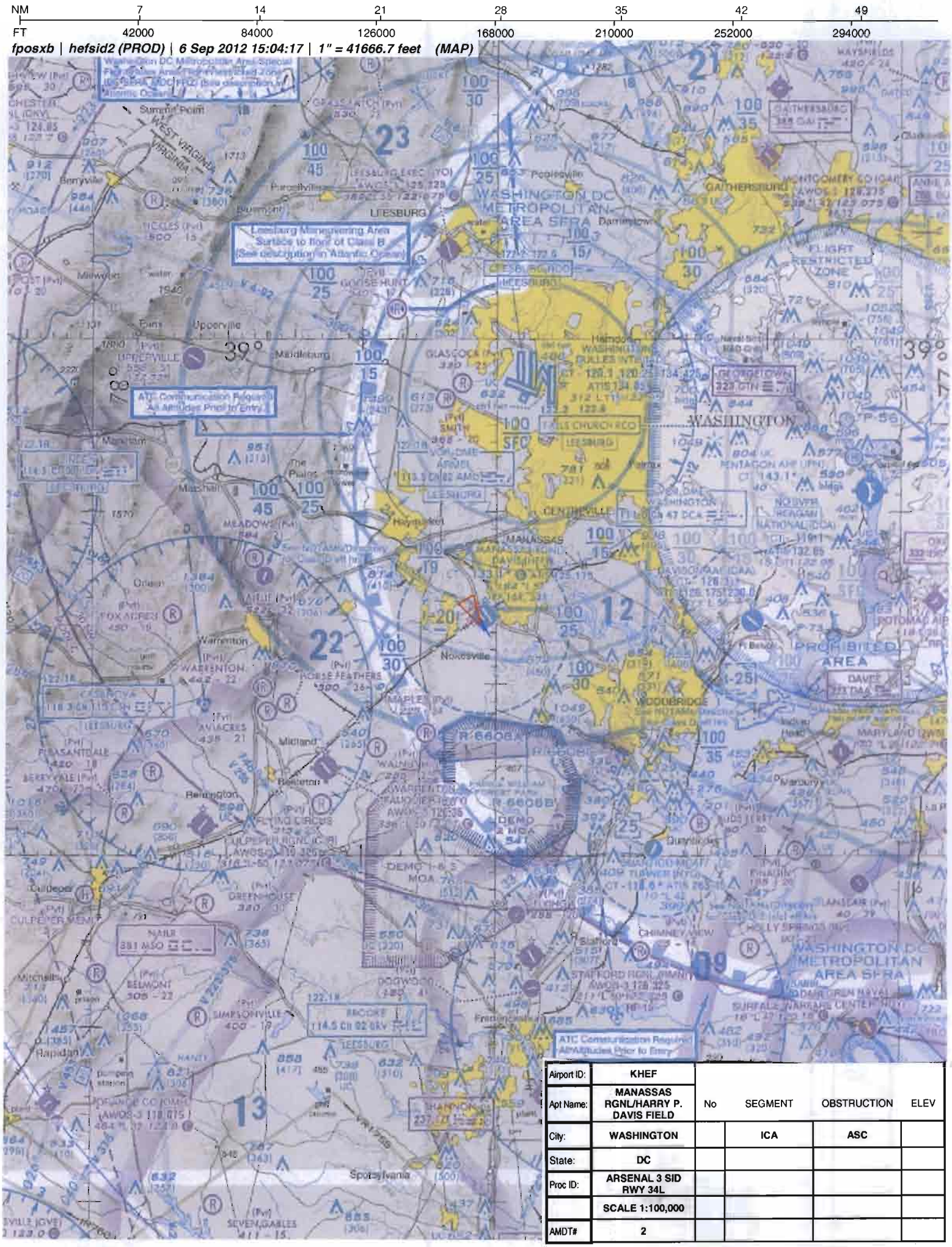


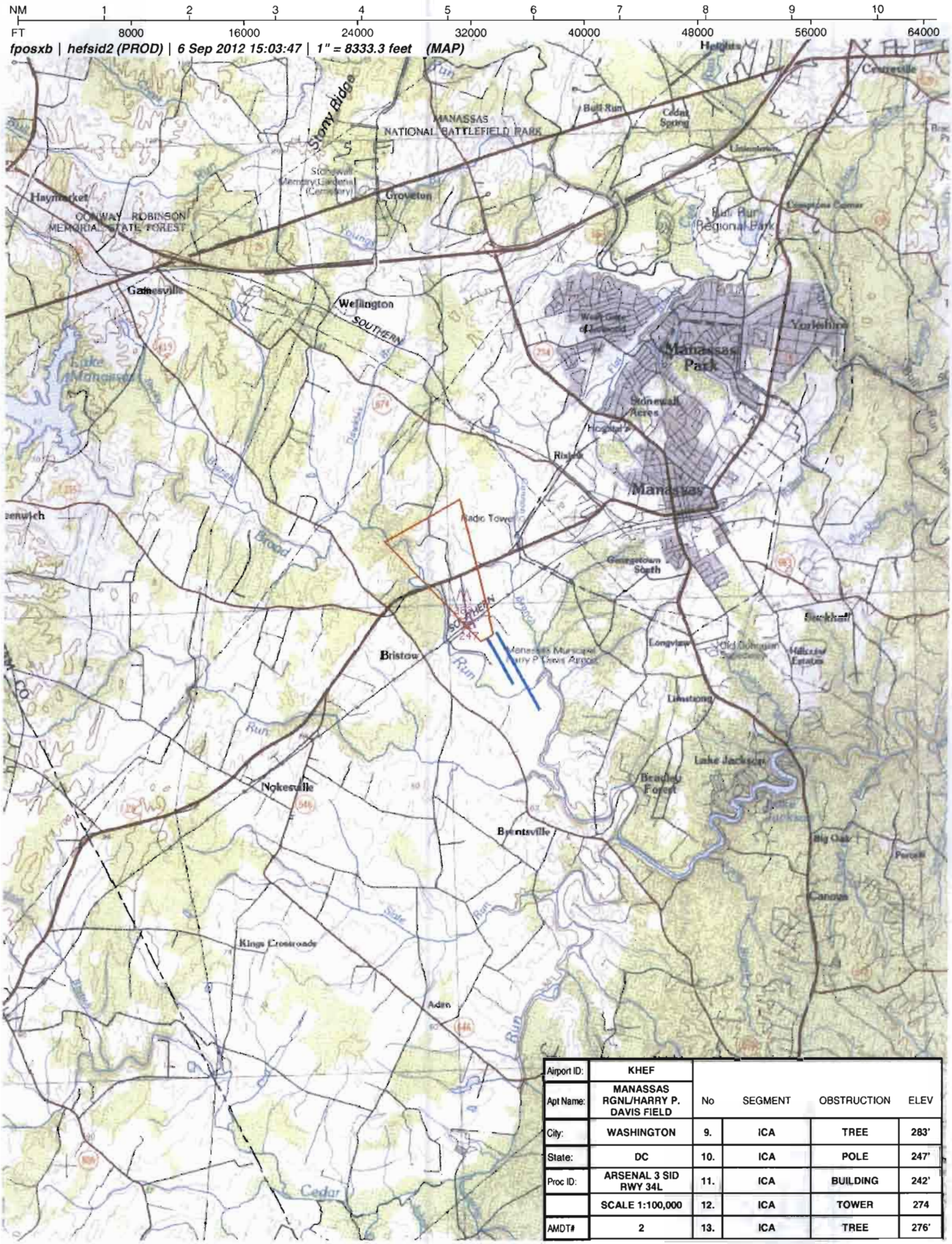
Airport ID:	KHEF	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	MANASSAS RGNL/HARRY P. DAVIS FIELD				
City:	WASHINGTON	1.	ICA	TREE	277'
State:	DC	2.	ICA	TREE	311'
Proc ID:	ARSENAL 3 SID RWY 16L	3.	ICA	TREE	303'
	SCALE 1:100,000				
Amdt #:	2				


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fposxb | hefsid3 (PROD) | 6 Sep 2012 15:13:57 | 1" = 41666.7 feet (MAP)
Leesburg Maneuvering Area
Surface to floor of Class B
ATC Communication Required
Prohibited Area
Flight Restricted Zone
WASHINGTON DC METROPOLITAN AREA SFRA
R-6608A
R-6608B
DEMO 2 MOA
DEMO 1-6-3 MOA
Summit Point
Leesburg
Manassas
Warrenton
Culpeper
Fredericksburg
Spotsylvania
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 16R
SCALE 1:500,000
Amdt #: 2
No
SEGMENT
OBSTRUCTION
ELEV
ICA
ASC

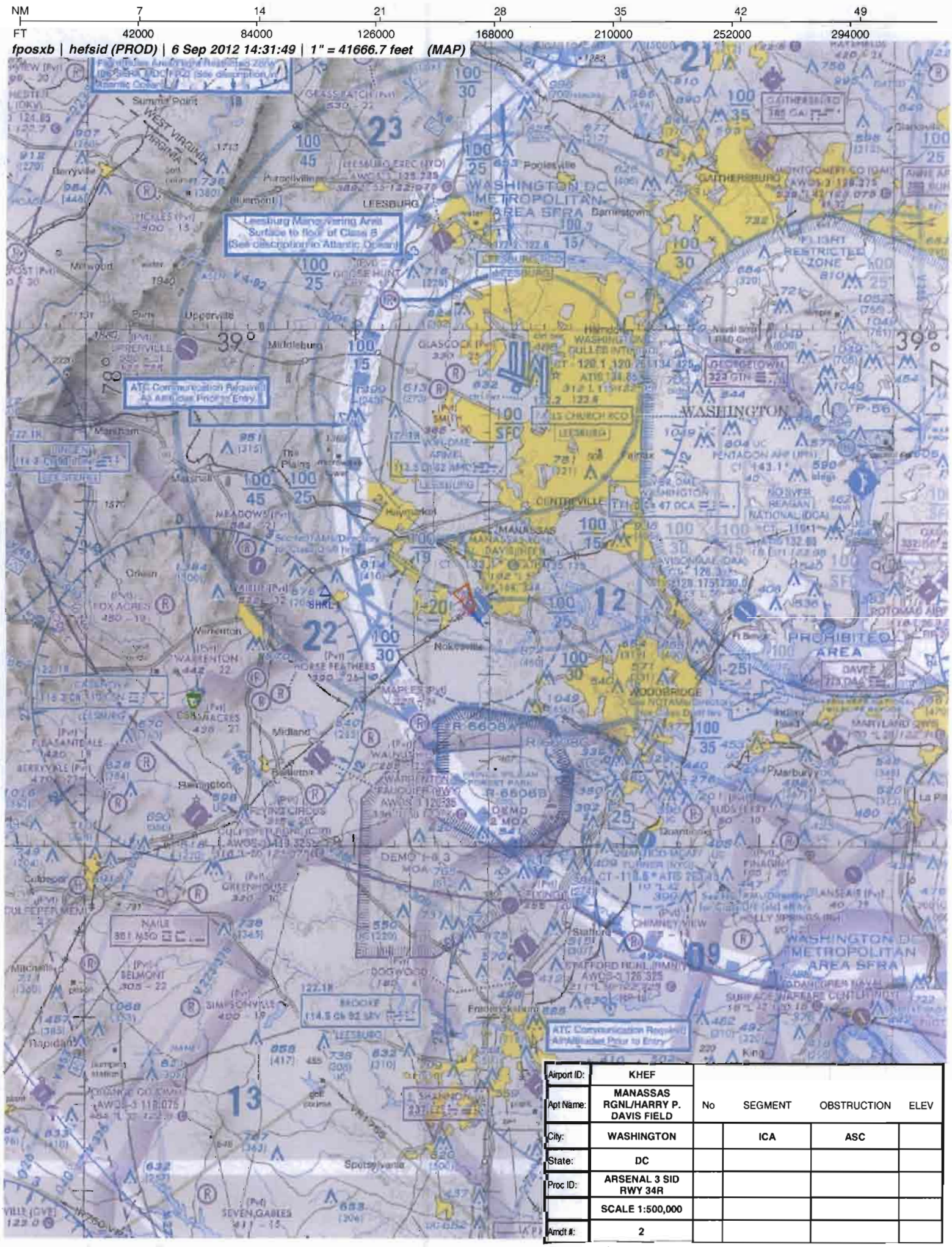


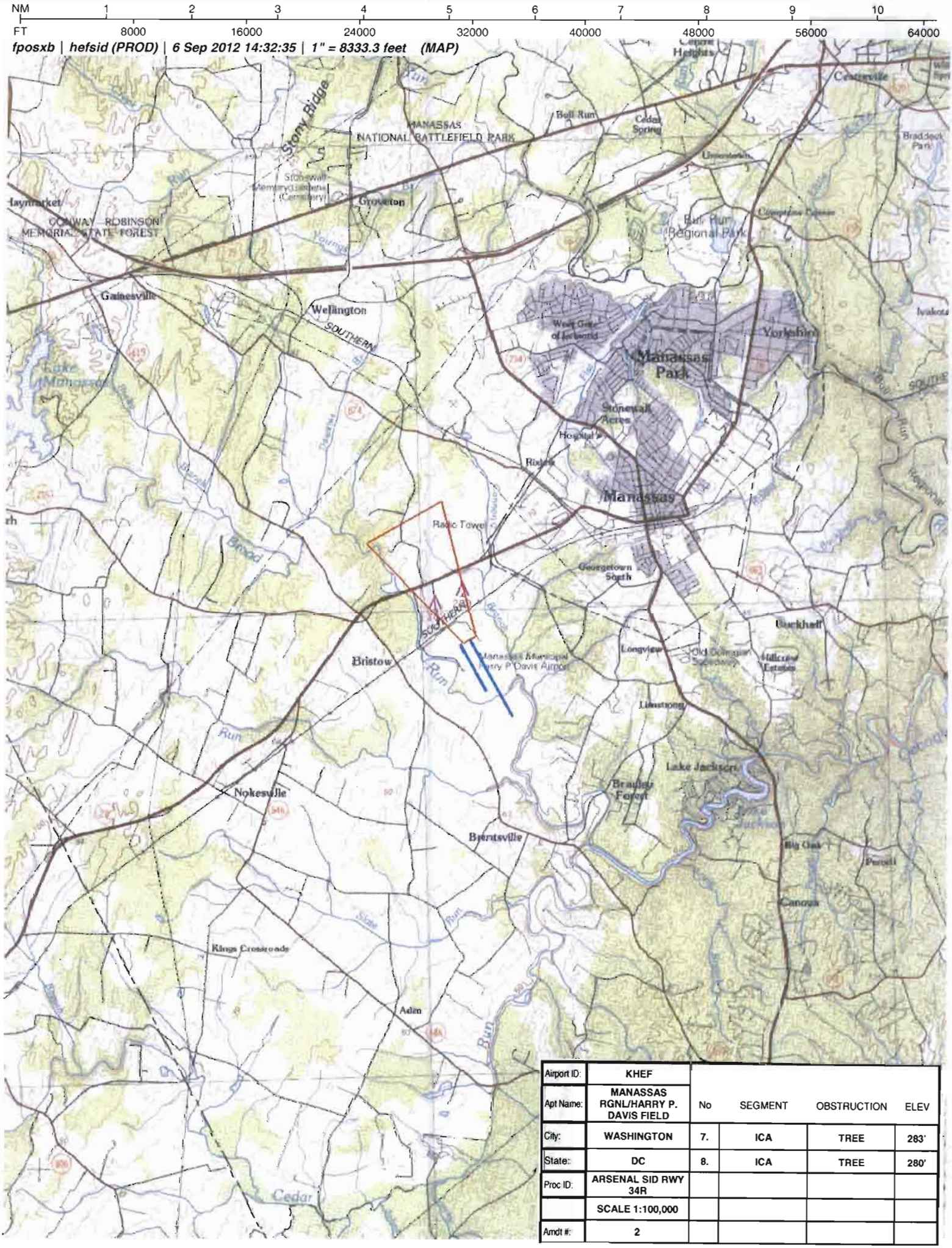
Airport ID:	KHEF				
Apt Name:	MANASSAS RGNL/HARRY P. DAVIS FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON	4.	ICA	TREE	194'
State:	DC	5.	ICA	TREE	236'
Proc ID:	ARSENAL 3 SID RWY 16R	6.	ICA	TREE	227'
	SCALE 1:100,000				
Amdt #:	2				


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fposxb | hefsid2 (PROD) | 6 Sep 2012 15:04:17 | 1" = 41666.7 feet (MAP)
Leesburg Maneuvering Area
Surface to floor of Class B
(See description in Atlantic Ocean)
ATC Communication Required
All Altitudes Prior to Entry
WASHINGTON DC METROPOLITAN AREA SFRA
PROHIBITED AREA
R-6608A
R-6608B
DEMO MOA
LEESBURG
MANASSAS
WASHINGTON
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 34L
SCALE 1:100,000
AMDT# 2
No
SEGMENT
OBSTRUCTION
ELEV
ICA
ASC



Airport ID:	KHEF				
Apt Name:	MANASSAS RGNL/HARRY P. DAVIS FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON	9.	ICA	TREE	283'
State:	DC	10.	ICA	POLE	247'
Proc ID:	ARSENAL 3 SID RWY 34L	11.	ICA	BUILDING	242'
	SCALE 1:100,000	12.	ICA	TOWER	274
AMDT#	2	13.	ICA	TREE	276'


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fposxb | hefsid (PROD) | 6 Sep 2012 14:31:49 | 1" = 41666.7 feet (MAP)
Leesburg Maneuvering Area
Surface to floor of Class B
(See description in Atlantic Ocean)
ATC Communication Required
As Appropriate Prior to Entry
WASHINGTON DC
METROPOLITAN
AREA SFRA
PROHIBITED
AREA
R-6608A
R-6608B
DEMO 1-6,3
MOA
WASHINGTON
LEESBURG
MANASSAS
CENTREVILLE
Airport ID: KHEF
Apt Name: MANASSAS RGNL/HARRY P. DAVIS FIELD
City: WASHINGTON
State: DC
Proc ID: ARSENAL 3 SID RWY 34R
SCALE 1:500,000
Amdt #: 2
No
SEGMENT
OBSTRUCTION
ELEV
ICA
ASC



Airport ID:	KHEF	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	MANASSAS RGNL/HARRY P. DAVIS FIELD				
City:	WASHINGTON	7.	ICA	TREE	283'
State:	DC	8.	ICA	TREE	280'
Proc ID:	ARSENAL SID RWY 34R				
	SCALE 1:100,000				
Amdt #:	2				

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

TYPE: SID

DP ROUTE DESCRIPTION:

TAKOFF RWY 34L/R: CLIMB HEADING 340.61 TO 800, THEN CLIMBING LEFT TURN ON CSN VORTAC R-056. CROSS SHRLI INT/CSN 10 DME AT 2000, CROSS CSN VORTAC AT 3000. THENCE...

TAKEOFF RWY 16L/R: CLIMB HEADING 160.61 TO 800, THEN CLIMBING RIGHT TURN ON CSN VORTAC R-087, CROSS GADZI/CSN 10 DME AT 2000, CROSS CSN VORTAC AT 3000 THENCE...

...VIA ASSIGNED TRANSITION.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
MARTINSBURG	ARSNL3.MRB	CSN VORTAC	DAWNZ INT/CSN 32.67 DME	010.00 (CSN R-010)	32.67	5000	3400	MAA 17500
		DAWNZ INT/CSN 32.67 DME	MRB VORTAC	360.00 (MRB R-180)	12.12	5000	3400	MAA 17500
WOOLY	ARSNL3.WOOLY	CSN VORTAC	DAWNZ INT/CSN 32.67 DME	010.00 (CSN R-010)	32.67	5000	3400	MAA 17500
		DAWNZ INT/CSN 32.67 DME	MRB VORTAC	360.00 (MRB R-180)	12.12	5000	3400	MAA 17500
		MRB VORTAC	WOOLY INT/MRB 37.89 DME	101.00 (MRB R-101)	37.89	5000	3200	MAA 17500
FLUKY	ARSNL3.FLUKY	CSN VORTAC	FLUKY INT/CSN 10.31 DME	147.51 (CSN R-148)	10.31	3000	2300	MAA 17500
GORDONSVILLE	ARSNL3.GVE	CSN VORTAC	GVE VORTAC	205.92 CSN R-206	39.99	4500	2700	MAA 17500
WITTO	ARSNL3.WITTO	CSN VORTAC	WITTO INT/CSN 30.36 DME	239.27 (CSN R-239)	30.36	6100		MAA 17500

QUALITY 3 CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

	ARSNL3.MOL	CSN VORTAC	MOL VOR/DME	239.27 & 237.50	73.56	6100	5500	MAA 17500
MONTEBELLO				CSN R-239 & MOL R-058				
LINDEN	ARSNL3.LDN	CSN VORTAC	LDN VORTAC	314.79	20.45	5000		MAA 17500
				CSN R-315				

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: WITTO TRANSITION IS FOR CHARLOTTESVILLE TRAFFIC. **NOTE:** RWY 16L, 16R DME REQUIRED. RWY 16L, 16R STANDARD WITH ATC CLIMB OF 400 FT PER NM TO 800.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 16L, TREES BEGINNING 1247 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/311 FT MSL. TREE 1811 FT FROM DER, 158 FT LEFT OF CENTERLINE, 100 FT AGL/277 FT MSL. TREES BEGINNING 1810 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/303 FT MSL.

NOTE: RWY 16R, TREE 749 FT FROM DER, 10 FT LEFT OF CENTERLINE, 23 FT AGL/194 FT MSL. TREE 638 FT FROM DER, 563 FT RIGHT OF CENTERLINE, 67 FT AGL/227 FT MSL. TREES BEGINNING 119 FT FROM DER, 497 FT RIGHT OF CENTERLINE, UP TO 26 FT AGL/195 FT MSL. TREES 980 FT FROM DER, 707 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/236 FT MSL.

NOTE: RWY 34R, VEGETATION AND TREES BEGINNING 29 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/197 FT MSL. TREES 518 FROM DER, 596 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/206 FT MSL. TREES 2903 FT FROM DER, 1102 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/280 FT MSL. SIGN 70 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 6 FT AGL/190 FT MSL. AIRFIELD LIGHTS BEGINNING 25 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/193 FT MSL. VEHICLE ON ROAD 198 FT FROM DER, 9 FT RIGHT OF CENTERLINE, 15 FT AGL/214 FT MSL.

NOTE: RWY 34L, TREES BEGINNING 1154 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/283 FT MSL. LIGHT POLES 1164 FT FROM DER, 759 FT LEFT OF CENTERLINE, 57 FT AGL/247 FT MSL. TOWER 3390 FT FROM DER, 1103 FT LEFT OF CENTERLINE, 68 FT AGL/274 FT MSL. BUILDING 2121 FT FROM DER, 328 LEFT OF CENTERLINE, 32 FT AGL/242 FT MSL. TREES 279 FT FROM DER, 130 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/210 FT MSL. TREES BEGINNING 1596 FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/233 FT MSL. VEHICLE ON ROAD 279 FT FROM DER, 130 FT RIGHT OF CENTERLINE, 15 FT AGL/210 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: R6608 A, B, C, AND DEMO 1, 2, 3 MOA.
CHART: AT SHRLI AND GADZI CROSS AT 2000.
CHART: AT CSN VORTAC: CROSS AT 3000.
CHART: AML VOR/DME R-321 TO DAWNZ INT; LDN VORTAC R-111 TO SHRLI INT.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

CHART: AT SHRLI AND GADZI CROSS AT 2000.
CHART: AT CSN VORTAC: CROSS AT 3000.
CHART: AML VOR/DME R-321 TO DAWNZ INT; LDN VORTAC R-111 TO SHRLI INT.

AIRPORTS SERVED:

MANASSAS RGNL/HARRY P. DAVIS FIELD	MANASSAS, VA

COMMUNICATIONS:

ATIS, POTOMAC CLEARANCE DELIVERY, GROUND CONTROL, MANASSAS TOWER, POTOMAC DEPARTURE CONTROL, AWOS-3.

FIXES AND/OR NAVAIDS:

REMARKS:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

STEVEN BRUMMETT AJV-352 07/12/2012

APPROVED BY:

DARRYEL ADAMS AJV-352

COORDINATED WITH:

APA, AOPA, NBAA, ZDC, PCT TRACON, HEF ATCT, AMGR

CHANGES:

1. CHANGED AML VORTAC TO AML VOR/DME.
2. CHANGED DISTANCE FROM CSN VORTAC TO DAWNZ FROM 32.66 TO 32.67.
3. CHANGED DEPARTURE HEADINGS FOR RWY 34L FROM 340.60 TO 340.61, RWY 34R FROM 340.62 TO 340.61 AND RWY 16R FROM 160.60 TO 160.61.
4. CHANGED FLUKY TRANSITION MOCA FROM 2200 TO 2300 FEET AND CHANGED MONTEBELLO/WITTO TRANSITION FROM 4300 TO 6100 FEET.
5. CHANGED CITY AND STATE FROM MANASSAS, VA TO WASHINGTON D.C.

REASONS:

1. FACILITY TYPE CHANGED.
2. CSN VORTAC UPDATED COORDINATES, MOVED 4.12 FEET.
3. NEW AIRPORT VG SURVEY.
4. AIRWAY MEA CHANGED.
5. PER AIRPORT MANAGER AND FPT.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CSN   K6011630VTH  N38382833W077515580    N38382833W077515580W0060004422     NARCASANOVA
        SUSAD        GVE   K6011560VTHA N38004896W078091089    N38004896W078091089W0060003822     NARGORDONSVILLE
        SUSAD        LDN   K6011430VTL  N38511581W078122000    N38511581W078122000W0060024401     NARLINDEN
        SUSAD        MOL   K6011530VDL  N37540189W079062480    N37540315W079062225W0050034591     NARMONTEBELLO
        SUSAD        MRB   K6011210VTL  N39230806W077505408    N39230806W077505408W0070006001     NARMARTINSBURG

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   DAWNZ K60    R     N39110534W077490006                    W0104     NAR          DAWNZ
        SUSAEAENRT   FLUKY K60    C   B N38302320W077434520                    W0103     NAR          FLUKY
        SUSAEAENRT   GADZI K60    R     N38400171W077391923                    W0104     NAR          GADZI
        SUSAEAENRT   SHRLI K60    R     N38445408W077420837                    W0104     NAR          SHRLI
        SUSAEAENRT   WITTO K60    C   L N38201384W078225107                    W0098     NAR          WITTO
        SUSAEAENRT   WOOLY K60    C   L N39201918W077021117                    W0109     NAR          WOOLY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHEFK6AHEF     0     062YHN38431570W077305440W010000192         1800018000C    MNAR    MANASSAS RGNL/HARRY P. DAVIS F

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHEFK6DARSNL31RW16B 010         0       VA                    1606       + 00800     18000
        SUSAP KHEFK6DARSNL31RW16B 020GADZIK6EA0E   R  CFYCSN K6     0870010026700080D     02000
        SUSAP KHEFK6DARSNL31RW16B 030CSN  K6D 0VE     TF                    26700100      03000
        SUSAP KHEFK6DARSNL31RW34B 010         0       VA                    3406       + 00800     18000
        SUSAP KHEFK6DARSNL31RW34B 020SHRLIK6EA0E   L  CFYCSN K6     0560010023600030D     02000
        SUSAP KHEFK6DARSNL31RW34B 030CSN  K6D 0VE     TF                    23600100      03000
        SUSAP KHEFK6DARSNL33FLUKY 010CSN  K6D 0V      IF                                  03000     18000
        SUSAP KHEFK6DARSNL33FLUKY 020FLUKYK6EA0EE     TF                    14750103
        SUSAP KHEFK6DARSNL33GVE   010CSN  K6D 0V      IF                                  03000     18000
        SUSAP KHEFK6DARSNL33GVE   020GVE  K6D 0VE     TF                    20590400
        SUSAP KHEFK6DARSNL33LDN   010CSN  K6D 0V      IF                                  03000     18000
        SUSAP KHEFK6DARSNL33LDN   020LDN  K6D 0VE     TF                    31480205
        SUSAP KHEFK6DARSNL33MOL   010CSN  K6D 0V      IF                                  03000     18000
        SUSAP KHEFK6DARSNL33MOL   020MOL  K6D 0VE     TF                    23930736
        SUSAP KHEFK6DARSNL33MRB   010CSN  K6D 0V      IF                                  03000     18000
        SUSAP KHEFK6DARSNL33MRB   020DAWNZK6EA0E       TF                    01000327
        SUSAP KHEFK6DARSNL33MRB   030MRB  K6D 0VE     TF                    36000121
```

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

```
SUSAP KHEFK6DARSNL33WITTO 010CSN  K6D 0V       IF                                03000     18000
SUSAP KHEFK6DARSNL33WITTO 020WITTOK6EA0EE      TF                    23930304
SUSAP KHEFK6DARSNL33WOOLY 010CSN  K6D 0V       IF                                03000     18000
SUSAP KHEFK6DARSNL33WOOLY 020DAWNZK6EA0E       TF                    01000327
SUSAP KHEFK6DARSNL33WOOLY 030MRB  K6D 0V       TF                    36000121
SUSAP KHEFK6DARSNL33WOOLY 040WOOLYK6EA0EE  R   TFY                   10100379
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
SUSAP KHEFK6GRW16L   0062001606 N38433972W077310759-0200    +0026600192000058100IIHEF1
SUSAP KHEFK6GRW16R   0037151606 N38433615W077311587-0300    +0024500185000050100R
SUSAP KHEFK6GRW34L   0037153406 N38430415W077305286+0300    +0021300175000040100V
SUSAP KHEFK6GRW34R   0062003406 N38424632W077302920+0200    +0022100178000040100R
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW16B		010		VA		FB		160.6()		AA 00800	
	RW16B	GADZI	020		CF	R	FB		267.0()	008.0	AT 02000	
	RW16B	CSN	030		TF		FB		267.0()	010.0	AT 03000	
	RW34B		010		VA		FB		340.6()		AA 00800	
	RW34B	SHRLI	020		CF	L	FB		236.0()	003.0	AT 02000	
	RW34B	CSN	030		TF		FB		236.0()	010.0	AT 03000	
	FLUKY	CSN	010		IF		FB				AT 03000	
	FLUKY	FLUKY	020		TF		FB		147.5()	010.3		
	GVE	CSN	010		IF		FB				AT 03000	
	GVE	GVE	020		TF		FB		205.9()	040.0		
	LDN	CSN	010		IF		FB				AT 03000	
	LDN	LDN	020		TF		FB		314.8()	020.5		
	MOL	CSN	010		IF		FB				AT 03000	
	MOL	MOL	020		TF		FB		239.3()	073.6		
	MRB	CSN	010		IF		FB				AT 03000	
	MRB	DAWNZ	020		TF		FB		010.0()	032.7		
	MRB	MRB	030		TF		FB		360.0()	012.1		
	WITTO	CSN	010		IF		FB				AT 03000	
	WITTO	WITTO	020		TF		FB		239.3()	030.4		
	WOOLY	CSN	010		IF		FB				AT 03000	
	WOOLY	DAWNZ	020		TF		FB		010.0()	032.7		
	WOOLY	MRB	030		TF		FB		360.0()	012.1		
	WOOLY	WOOLY	040		TF	R	FB		101.0()	037.9		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CSN	N383828.33	W0775155.80	N3838.472	W07751.930
	GVE	N380048.96	W0780910.89	N3800.816	W07809.182
	LDN	N385115.81	W0781220.00	N3851.264	W07812.333
	MOL	N375401.89	W0790624.80	N3754.032	W07906.413
	MRB	N392308.06	W0775054.08	N3923.134	W07750.901
	DAWNZ	N391105.34	W0774900.06	N3911.089	W07749.001
	FLUKY	N383023.20	W0774345.20	N3830.387	W07743.753
	GADZI	N384001.71	W0773919.23	N3840.029	W07739.321
	SHRLI	N384454.08	W0774208.37	N3844.901	W07742.140
	WITTO	N382013.84	W0782251.07	N3820.231	W07822.851
	WOOLY	N392019.18	W0770211.17	N3920.320	W07702.186
	RW16L	N384339.72	W0773107.59	N3843.662	W07731.127
	RW16R	N384336.15	W0773115.87	N3843.603	W07731.265
	RW34L	N384304.15	W0773052.86	N3843.069	W07730.881
	RW34R	N384246.32	W0773029.20	N3842.772	W07730.487

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	THREE	ARSNL3.CSN	TWO	28 AUG 2007	

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW16L	00192	58
RW16R	00185	50
RW34L	00175	40
RW34R	00178	40

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: CASANOVA VORTAC **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 383828.33N/0775155.80W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	CSN	VORTAC	207.00	027.00	L	1-1 1/2		3000	17000	4	16
2	NW	CSN	VORTAC	299.00	119.00	R	1-1 1/2		2800	17000	4	16
3	N	CSN	VORTAC	003.51	183.51	L	1-1 1/2		2900	17000	4	16
4	SW		WP	207.00	027.00	L		4	3000	8000	5	9
5	NE	CSN	VORTAC	052.09	232.09	R	1		4000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	384536.00N/0781018.00W	3025	4E
1	200	AAO	384536.00N/0781018.00W	3025	4E
2	200	AAO	383924.00N/0770339.00W	1309	4E
3	200	AAO	384733.00N/0775021.00W	1579	2C
3	310	AAO	385017.20N/0775648.10W	1770	6A
4	200	AAO	384300.00N/0775309.00W	1080	4E
4	310	AAO	384718.31N/0775044.15W	1537	2A
5	200	TOWER (51-000111)	384402.38N/0775009.97W	1384	2C

REASON FOR NONSTANDARD HOLDING:
PAT 4 FOR SEPARATION
PAT 1 FOR SEPARATION
PAT 3 TO AVOID HIGH TERRAIN WEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4100

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	LOC RWY 4	KCJR	CULPEPER	VA (US)
3	VOR-A	KCJR	CULPEPER	VA (US)
3	NDB RWY 4	KCJR	CULPEPER	VA (US)
4	RNAV (GPS) RWY 33	KHWY	WARRENTON	VA (US)

REMARKS:
HOLDING PATTERNS 1, 2 AND 3 HIGHER ALTITUDES REQUESTED BY ATC.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	SWABY			KNHK	PATUXENT RIVER	MD (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
EN ROUTE	J48					(US)
EN ROUTE	J8-147					(US)
EN ROUTE	V128					(US)
EN ROUTE	V140					(US)
EN ROUTE	V286					(US)
EN ROUTE	V453					(US)
IAP	CONVERGING ILS RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 1R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19C		5	KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 1C			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 1L			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT II)		5	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT III)		5	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1C (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1L (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1L (CAT III)			KIAD	WASHINGTON	DC (US)

QUALITY CHECKED

IAP	ILS RWY 1R (CAT II)		KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1R (CAT III)		KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 1L		KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) Y RWY 19C	4	KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) Y RWY 1R		KIAD	WASHINGTON	DC (US)
IAP	RNAV (RNP) Z RWY 1C		KIAD	WASHINGTON	DC (US)
IAP	RNAV (RNP) Z RWY 1R		KIAD	WASHINGTON	DC (US)
IAP	VOR/DME OR TACAN RWY 12		KIAD	WASHINGTON	DC (US)
IAP	LOC RWY 4	3	KCJR	CULPEPER	VA (US)
IAP	NDB RWY 4	3	KCJR	CULPEPER	VA (US)
IAP	RNAV (GPS) RWY 22		KCJR	CULPEPER	VA (US)
IAP	RNAV (GPS) RWY 4		KCJR	CULPEPER	VA (US)
IAP	VOR-A	3	KCJR	CULPEPER	VA (US)
IAP	ILS OR LOC RWY 16L	1	KHEF	MANASSAS	VA (US)
IAP	RNAV (GPS) RWY 16L	4	KHEF	MANASSAS	VA (US)
IAP	RNAV (GPS) RWY 16R	4	KHEF	MANASSAS	VA (US)
IAP	RNAV (GPS) RWY 34R	4	KHEF	MANASSAS	VA (US)
IAP	LOC/DME RWY 15	1	KHWY	WARRENTON	VA (US)
IAP	RNAV (GPS) RWY 15	4	KHWY	WARRENTON	VA (US)
IAP	RNAV (GPS) RWY 33	4	KHWY	WARRENTON	VA (US)
IAP	VOR RWY 15	2	KHWY	WARRENTON	VA (US)
IAP	ILS OR LOC RWY 32		KOKV	WINCHESTER	VA (US)
STAR	ELDEE		KDCA	WASHINGTON	DC (US)
STAR	NUMMY		KDCA	WASHINGTON	DC (US)
STAR	ROYIL		KDCA	WASHINGTON	DC (US)
STAR	SHNON		KDCA	WASHINGTON	DC (US)
STAR	SMYRNA		KDOV	DOVER	DE (US)
STAR	NOTTINGHAM		KBWI	BALTIMORE	MD (US)
STAR	RAVNN		KBWI	BALTIMORE	MD (US)
STAR	RAVNN		KMTN	BALTIMORE	MD (US)
STAR	IRONS		KADW	CAMP SPRINGS	MD (US)
STAR	NOTTINGHAM		KDMW	WESTMINSTER	MD (US)
STAR	CASANOVA		KJYO	LEESBURG	VA (US)
STAR	COATT		KJYO	LEESBURG	VA (US)
STAR	COATT		KHEF	MANASSAS	VA (US)
STAR	ROYIL		KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATE FIX USE.
REIDENTIFIED FAC 1, CSN VORTAC ACTIVE DATA, AS PREVIOUSLY WAS IN HISTORY STATUS.
REMOVED WP FROM FIX TYPE.
FACILITY MOVED 4.12 FT. WITH UPDATED LAT/LONG.

09/17/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/03/2012: CHANGED HOLDING PATTERN 1 TO WHAT IT HAS BEEN FOR SEVERAL YEARS (ACCEDENTALLY CHANGED FROM 027 INBOUND TO 207).

DEVELOPED BY: **DATE:** 07/03/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DAWNZ **STATE:** WV **COUNTRY:** US

LATITUDE/LONGITUDE: 391105.34N/0774900.06W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H	010.00	004.00	32.67	32.67		5000	17500
2	ARMEL	AML	VOR/DME	L	320.63	312.63		22.19		5000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARSENAL	1, 2		KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
CHANGED DISTANCE FROM FAC 1 FROM 32.66 TO 32.67.
ADDED DIST FROM FAC FOR FAC 1 & 2.
UPDATED FIX USE.
CHANGED FAC 2 TO VOR/DME.

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON, HEF ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: FLUKY **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 383023.20N/0774345.20W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GORDONSVILLE	GVE	VORTAC	H	040.01	034.01	35.69	35.69		2000	45000
2	BROOKE	BRV	VORTAC	L	309.01	300.01	20.47	20.47		2000	45000
3	CASANOVA	CSN	VORTAC	H	147.51	141.51	10.31	10.31		3000	45000
4	WASHINGTON	DCA	VOR/DME	L	246.19	237.19	38.82	38.82		4500	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRV	VORTAC	R-309	21	18000	45000
DCA	VOR/DME	R-246	39	4500	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
GORDONSVILLE (FAC 1) AND CASANOVA (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAZIR (RNAV)			KDCA	WASHINGTON	DC (US)
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	CAPITAL	4		KIAD	WASHINGTON	DC (US)
DP	TERPZ (RNAV)			KBWI	BALTIMORE	MD (US)
DP	ARSENAL	3		KHEF	MANASSAS	VA (US)
EN ROUTE	V223	1, 3				(US)
EN ROUTE	V286	1, 2, 3				(US)
EN ROUTE	V375	1, 3				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPLDATED FIX USE.
ADDED FAC THAT ESTANLISHED COORDINATES.

DEVELOPED BY: **DATE:** 08/21/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER: BWI AIRPORT MANAGER

RADIO FIX AND HOLDING DATA RECORD

NAME: GADZI **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 384001.71N/0773919.23W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H	087.00	081.00	10.00	10.00		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARSENAL	1		KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED DISTANCE FROM FACILITY.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/21/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON, HEF ATCT
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GORDONSVILLE VORTAC **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 380048.96N/0780910.89W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GORDONSVILLE	GVE	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	GVE	VORTAC	213.00	033.00	R	1		4000	7000	4	8
2	S	GVE	VORTAC	182.00	002.00	R	1		2100	7000	4	8
3	SW		WP	213.00	033.00	R		4	4000	7000	5	9
4	S		WP	182.00	002.00	R		5	2100	7000	5	9
5	W	GVE	VORTAC	268.00	088.00	L	1 1/2		25000	41000	21	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	200' AAO (OBS-117529)	380731.00N/0781713.00W	2030	2C
1	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
2	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
3	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
4	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
5	265	SPOT ELEVATION (OBS-116087)	380728.50N/0781716.20W	1830	4D

REASON FOR NONSTANDARD HOLDING:
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED FROM 3300 TO 14,000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (GPS) RWY 27	KLKU	LOUISA	VA (US)

REMARKS:
CHART PAT 5 ENROUTE HIGH (J42) PER ATC REQUEST
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAZIR (RNAV)			KDCA	WASHINGTON	DC (US)
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	WINSTON			KINT	WINSTON-SALEM	NC (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	YEAST			KRIC	RICHMOND	VA (US)
EN ROUTE	J150					(US)
EN ROUTE	J37					(US)
EN ROUTE	J42		5			(US)
EN ROUTE	J75					(US)
EN ROUTE	V3					(US)
EN ROUTE	V375					(US)
EN ROUTE	V38					(US)
EN ROUTE	V39					(US)
EN ROUTE	V453					(US)
EN ROUTE	V473					(US)
EN ROUTE	V476					(US)
IAP	RNAV (GPS) RWY 8			K7W4	BUMPASS	VA (US)
IAP	ILS OR LOC RWY 3		1	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) Y RWY 21		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) RWY 3		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) Z RWY 21		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	LOC RWY 4			KCJR	CULPEPER	VA (US)
IAP	RNAV (GPS) RWY 24			KEZF	FREDERICKSBURG	VA (US)
IAP	LOC/DME RWY 27		2	KLKU	LOUISA	VA (US)
IAP	RNAV (GPS) RWY 27		4	KLKU	LOUISA	VA (US)
IAP	GPS RWY 8		4	KOMH	ORANGE	VA (US)
IAP	VOR/DME OR GPS-A		2	KOMH	ORANGE	VA (US)
STAR	SMYRNA			KDOV	DOVER	DE (US)
STAR	SOUTH BOSTON			KIGX	CHAPEL HILL	NC (US)
STAR	SOUTH BOSTON			KLHZ	LOUISBURG	NC (US)
STAR	SOUTH BOSTON			KHNZ	OXFORD	NC (US)
STAR	FRAZI (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	SOUTH BOSTON			KRDU	RALEIGH/DURHAM	NC (US)

QUALITY 3 CHECKED

STAR	SOUTH BOSTON	KTDF	ROXBORO	NC (US)
STAR	SOUTH BOSTON	KTTA	SANFORD	NC (US)
STAR	SOUTH BOSTON	KJNX	SMITHFIELD	NC (US)
STAR	JAIKE (RNAV)	KCDW	CALDWELL	NJ (US)
STAR	JAIKE (RNAV)	KLDJ	LINDEN	NJ (US)
STAR	JAIKE (RNAV)	K47N	MANVILLE	NJ (US)
STAR	JAIKE (RNAV)	KMMU	MORRISTOWN	NJ (US)
STAR	DYLIN	KEWR	NEWARK	NJ (US)
STAR	PHLBO (RNAV)	KEWR	NEWARK	NJ (US)
STAR	JAIKE (RNAV)	KSMQ	SOMERVILLE	NJ (US)
STAR	JAIKE (RNAV)	KTEB	TETERBORO	NJ (US)
STAR	PAATS (RNAV)	KTTN	TRENTON	NJ (US)
STAR	KORRY	KLGA	NEW YORK	NY (US)
STAR	PAATS (RNAV)	KMQS	COATESVILLE	PA (US)
STAR	PAATS (RNAV)	KPHL	PHILADELPHIA	PA (US)
STAR	PAATS (RNAV)	KPNE	PHILADELPHIA	PA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
PAT 3 LEG LENGTH CHANGED FROM 5 NM TO 4 NM

DEVELOPED BY: **DATE:** 08/24/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MONTEBELLO VOR/DME **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 375401.89N/0790624.80W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MONTEBELLO	MOL	VOR/DME	L							41000

FIX RESTRICTIONS:
MCA V290 6000 SOUTHEAST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	MOL	VOR/DME	271.00	091.00	L	1-1 1/2		6000	41000	7	29
2	W		WP	275.00	095.00	L		5	6000	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (51-001079)	374743.00N/0791052.00W	4322	4E
1	265	TOWER (51-001079)	374743.00N/0791052.00W	4322	4E
2	200	AAO	374949.70N/0790724.30W	4260	6C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	200	265
1	265	196
2	200	227

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 6000 TO FL180.

REMARKS:
ESV'S ON FILE.
CHART PAT 1 ENROUTE HIGH (J42) PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAZIR (RNAV)			KDCA	WASHINGTON	DC (US)
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	YEAST			KRIC	RICHMOND	VA (US)
DP	SHENANDOAH			KSHD	STAUNTON/WAYNESBORO/HARRISONBURG	VA (US)
EN ROUTE	J22					(US)
EN ROUTE	J24					(US)
EN ROUTE	J42		1			(US)
EN ROUTE	J48					(US)
EN ROUTE	V140					(US)
EN ROUTE	V143					(US)
EN ROUTE	V290					(US)
EN ROUTE	V377					(US)
EN ROUTE	V473					(US)
IAP	DOCCS			KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 33		2	KVBW	BRIDGEWATER	VA (US)
IAP	ILS OR LOC RWY 25			KHSP	HOT SPRINGS	VA (US)
IAP	ILS OR LOC RWY 4			KLYH	LYNCHBURG	VA (US)
IAP	VOR RWY 4			KLYH	LYNCHBURG	VA (US)
IAP	VOR/DME RWY 22			KLYH	LYNCHBURG	VA (US)
IAP	ILS OR LOC RWY 5			KSHD	STAUNTON/WAYNESBORO/HARRISONBURG	VA (US)
IAP	NDB RWY 5			KSHD	STAUNTON/WAYNESBORO/HARRISONBURG	VA (US)
IAP	RNAV (GPS) RWY 5			KSHD	STAUNTON/WAYNESBORO/HARRISONBURG	VA (US)
IAP	RNAV (GPS) RWY 24			KW13	WAYNESBORO	VA (US)
STAR	WZRRD			KDCA	WASHINGTON	DC (US)
STAR	FLCON (RNAV)			KATL	ATLANTA	GA (US)
STAR	WHINZ			KATL	ATLANTA	GA (US)
STAR	GEMNI			KDTW	DETROIT	MI (US)

QUALITY 3 CHECKED

STAR	TERKS	KCPK	NORFOLK	VA (US)
STAR	TERKS	KNGU	NORFOLK	VA (US)
STAR	TERKS	KORF	NORFOLK	VA (US)
STAR	TERKS	KPVG	NORFOLK	VA (US)
STAR	TERKS	KSFQ	SUFFOLK	VA (US)
STAR	TERKS	KNTU	VIRGINIA BEACH	VA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
DELETED 230 KTS HOLDING PATTERN.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/24/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC, ZTL
ATC FACILITY: PCT APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHRLI **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 384454.08N/0774208.37W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H	055.99	049.99	10.00	10.00			
2	LINDEN	LDN	VORTAC	L	110.91	104.91		24.49		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
LINDEN (FAC 2) AND CASANOVA (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARSENAL	1, 2		KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FAC 1 & 2 INFORMATION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/21/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: NYC
ARTCC: ZDC
ATC FACILITY: PCT TRACON, HEF ATCT
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WITTO **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 382013.84N/0782251.07W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H	239.27	233.27	30.36	30.36		4300	17500
2	GORDONSVILLE	GVE	VORTAC	H	337.00	331.00	22.19	22.19		4300	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	044.00	224.00	L		5	4300	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	382627.00N/0782457.00W	3708	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 OBSTACLE CLEARANCE

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
GORDONSVILLE (FAC 2) AND CASANOVA (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE 240 FT REQUIRED.
HOLDING OBSTACLE IN SECONDARY EQUILIVENT HEIGHT OF 3007 FT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARSENAL	1, 2		KHEF	MANASSAS	VA (US)
EN ROUTE	V140	1, 2				(US)
EN ROUTE	V3-39	2				(US)
IAP	RNAV (GPS) Y RWY 21		1	KCHO	CHARLOTTESVILLE	VA (US)
IAP	GPS RWY 8			KOMH	ORANGE	VA (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE.
REMOVED FAC 3 WP INFORMATION.
ADDED HOLDING RESTRICTION.
ADDED PRECIPITOUS TERRAIN EVAL.
ADDED DEST FROM FACILITY FAC 1 & 2.
RAISED MINIMUM ALTITUDE FROM 4000 TO 4300.

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WOOLY **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 392019.18N/0770211.17W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BALTIMORE	BAL	VORTAC	L	311.00	300.00	20.17	20.17		2600	17500
2	WESTMINSTER	EMI	VORTAC	H	204.04	196.04		9.75		2600	17500
3	MARTINSBURG	MRB	VORTAC	L	101.00	094.00	37.89	37.89		3200	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	039.64	219.64	R		4	3200	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	393021.00N/0765829.00W	1099	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATERN.

REMARKS:
WESTMINSTER (FAC 2) AND BALTIMORE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	STOIC (RNAV)			KIAD	WASHINGTON	DC (US)
DP	ARSENAL	3		KHEF	MANASSAS	VA (US)
EN ROUTE	V214	1, 2, 3				(US)
EN ROUTE	V44	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 10			KFME	FORT MEADE (ODENTON)	MD (US)
IAP	RNAV (GPS)-A		1	KGAI	GAITHERSBURG	MD (US)
IAP	RNAV (GPS) RWY 34			KDMW	WESTMINSTER	MD (US)
STAR	SMYRNA			KDOV	DOVER	DE (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DME OFF FAC 3.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/21/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT APP CON
OTHER: KDOV

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: LINDEN VORTAC **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 385115.81N/0781220.00W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LINDEN	LDN	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	LDN	VORTAC	279.00	099.00	R	1-1 1/2		6000	17500	7	16
2	SE	LDN	VORTAC	155.00	335.00	R	1		5000	6000	7	7
3	N	LDN	VORTAC	020.00	200.00	R	1		5000	6000	9	9
4	N		WP	020.00	200.00	R		5	5000	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	384633.00N/0781212.00W	3531	4E
2	200	AAO	384633.00N/0781212.00W	3531	4E
2	310	AAO	384551.00N/0781631.70W	3674	6C
3	265	AAO	384551.00N/0781631.70W	3674	6C
4	200	AAO	384633.00N/0781212.00W	3531	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	163
2	200	150
2	310	104
3	265	104
4	200	121

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 1 ATC USE.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	VOR B	KFRR	FRONT ROYAL	VA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	RNLDI (RNAV)			KIAD	WASHINGTON	DC (US)
DP	TERPZ (RNAV)			KBWI	BALTIMORE	MD (US)
DP	TAKEOFF			KFRR	FRONT ROYAL	VA (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	TRIXY			KMRB	MARTINSBURG	WV (US)
EN ROUTE	J109					(US)
EN ROUTE	J134					(US)
EN ROUTE	V144					(US)
EN ROUTE	V453					(US)
IAP	CONVERGING ILS RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 01L			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01L (CAT II/III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II/III)			KIAD	WASHINGTON	DC (US)
IAP	VOR/DME OR TACAN RWY 12			KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) A			KFRR	FRONT ROYAL	VA (US)
IAP	VOR B		2	KFRR	FRONT ROYAL	VA (US)
IAP	NDB A			KLUA	LURAY	VA (US)
IAP	RNAV (GPS) RWY 22			KLUA	LURAY	VA (US)
IAP	RNAV (GPS) RWY 4		4	KLUA	LURAY	VA (US)
IAP	VOR/DME-B			KLUA	LURAY	VA (US)
IAP	ILS OR LOC RWY 32			KOKV	WINCHESTER	VA (US)
IAP	RNAV (GPS) RWY 32			KOKV	WINCHESTER	VA (US)
IAP	VOR/DME-A			KOKV	WINCHESTER	VA (US)
IAP	ILS OR LOC RWY 26		3	KMRB	MARTINSBURG	WV (US)
IAP	LDA/DME-B			KW99	PETERSBURG	WV (US)
STAR	ELDEE			KDCA	WASHINGTON	DC (US)
STAR	DOCCS			KIAD	WASHINGTON	DC (US)
STAR	ROYIL			KIAD	WASHINGTON	DC (US)

QUALITY 3 CHECKED

STAR	SHNON	KIAD	WASHINGTON	DC (US)
STAR	BRUSH	KCVG	COVINGTON	KY (US)
STAR	JAVIT	KCVG	COVINGTON	KY (US)
STAR	BRUSH	KK62	FALMOUTH	KY (US)
STAR	JAVIT	KK62	FALMOUTH	KY (US)
STAR	WESTMINSTER	KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER	KMTN	BALTIMORE	MD (US)
STAR	ELDEE (RNAV)	KADW	CAMP SPRINGS	MD (US)
STAR	BRUSH	KI69	BATAVIA	OH (US)
STAR	JAVIT	KI69	BATAVIA	OH (US)
STAR	BRUSH	KISZ	CINCINNATI	OH (US)
STAR	JAVIT	KISZ	CINCINNATI	OH (US)
STAR	BRUSH	KLUK	CINCINNATI	OH (US)
STAR	JAVIT	KLUK	CINCINNATI	OH (US)
STAR	BRUSH	KHAO	HAMILTON	OH (US)
STAR	JAVIT	KHAO	HAMILTON	OH (US)
STAR	BUNTS	KPHL	PHILADELPHIA	PA (US)
STAR	ELDEE (RNAV)	KDAA	FORT BELVOIR	VA (US)
STAR	DOCCS	KJYO	LEESBURG	VA (US)
STAR	ROYIL	KJYO	LEESBURG	VA (US)
STAR	SHNON (RNAV)	KJYO	LEESBURG	VA (US)
STAR	ROYIL	KHEF	MANASSAS	VA (US)
STAR	SHNON (RNAV)	KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP, STAR, IAP, AREA, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
1. UPDATED FIX USE.
2. ADDED HOLDING PATTERN 4.
3. UPDATED ACCURACY CODES FOR 310K PAT 2 AND 265K PAT 3 FROM 6A TO 6C.

DEVELOPED BY: **DATE:** 08/23/2011 **OFFICE:** AJV-352 **NAME:** ROSE BOONE

APPROVED BY: **DATE:** 01/26/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: MARTINSBURG VORTAC **STATE:** WV **COUNTRY:** US

LATITUDE/LONGITUDE: 392308.06N/0775054.08W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MARTINSBURG	MRB	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	MRB	VORTAC	109.00	289.00	L	1-1 1/2		3000	17500	8	16
2	E		WP	112.00	292.00	L		7	3000	6000	9	10
3	E	MRB	VORTAC	110.00	290.00	L	1		3000	6000	8	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	392200.00N/0774215.00W	1729	4E
1	310	SPOT + AAO	392700.50N/0773734.20W	1958	2A
2	265	AAO	392200.00N/0774215.00W	1729	4E
2	310	SPOT + AAO	392700.50N/0773734.20W	1958	2A
3	265	AAO	392200.00N/0774215.00W	1729	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST.
PAT 2 ATC REQUEST.
PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 26	KMRB	MARTINSBURG	WV (US)
1	VOR-A	KMRB	MARTINSBURG	WV (US)
2	RNAV (GPS) RWY 8	KMRB	MARTINSBURG	WV (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	TAKE-OFF MINIMUMS			KFRR	FRONT ROYAL	VA (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	TAKE-OFF MINIMUMS			KMRB	MARTINSBURG	WV (US)
EN ROUTE	J162					(US)
EN ROUTE	J6					(US)
EN ROUTE	V143					(US)
EN ROUTE	V166					(US)
EN ROUTE	V214					(US)
EN ROUTE	V3					(US)
EN ROUTE	V39					(US)
EN ROUTE	V44					(US)
EN ROUTE	V457					(US)
EN ROUTE	V501					(US)
EN ROUTE	V8					(US)
IAP	CONVERGING ILS RWY 12			KIAD	WASHINGTON	DC (US)
IAP	CONVERGING ILS RWY 19C			KIAD	WASHINGTON	DC (US)
IAP	CONVERGING ILS RWY 19L			KIAD	WASHINGTON	DC (US)
IAP	CONVERGING ILS RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 19L			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 1R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19C			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 1C	1	1	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19L (CAT II)	1		KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1C (CAT II)	1	1	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 1L		2	KIAD	WASHINGTON	DC (US)

QUALITY 3 CHECKED

IAP	RNAV (GPS) Y RWY 19C		KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) Y RWY 19L		KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 5		KFDK	FREDERICK	MD (US)
IAP	VOR-A		KFDK	FREDERICK	MD (US)
IAP	ILS OR LOC RWY 27	3	KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 9		KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 17		KJYO	LEESBURG	VA (US)
IAP	RNAV (GPS) RWY 17		KJYO	LEESBURG	VA (US)
IAP	VOR OR GPS-A		KJYO	LEESBURG	VA (US)
IAP	VOR/DME-A		KOKV	WINCHESTER	VA (US)
IAP	GPS RWY 29		KW35	BERKELEY SPRINGS	WV (US)
IAP	ILS OR LOC RWY 26	1	KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 26		KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 8	2	KMRB	MARTINSBURG	WV (US)
IAP	VOR-A	1	KMRB	MARTINSBURG	WV (US)
STAR	NUMMY		KDCA	WASHINGTON	DC (US)
STAR	BARIN (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	DELRO		KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	PHILIPSBURG		KIAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	SELINSGROVE		KIAD	WASHINGTON	DC (US)
STAR	SMYRNA		KDOV	DOVER	DE (US)
STAR	BRUSH		KCVG	COVINGTON	KY (US)
STAR	BRUSH		KK62	FALMOUTH	KY (US)
STAR	WESTMINSTER		KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER		KMTN	BALTIMORE	MD (US)
STAR	BRUSH		KI69	BATAVIA	OH (US)
STAR	BRUSH		KISZ	CINCINNATI	OH (US)
STAR	BRUSH		KLUK	CINCINNATI	OH (US)
STAR	BRUSH		KHAO	HAMILTON	OH (US)
STAR	DOCCS		KJYO	LEESBURG	VA (US)
STAR	ROYIL		KJYO	LEESBURG	VA (US)
STAR	ROYIL		KHEF	MANASSAS	VA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
HOLDING PATTERNS: PAT 3 - DELETED 1 1/2 MINUTE TIMING AND CHANGED MAX TEMPLATE FROM 10 TO 9.
CONTROLLING OBSTRUCTIONS: PAT 1 - CHANGED 310 KT AC FROM 6A TO 2A (SPOT ON QUAD CHART); PAT 2 - UPDATED 265 KT OBSTRUCTION AND CHANGED 310 KT AC FROM 6A TO 2A (SPOT ON QUAD CHART); PAT 3 - DELETED 310 KT OBSTRUCTION (CLIMB-IN-HOLD NOT REQUIRED).
REASON FOR NONSTANDARD HOLDING: ADDED PAT 2 REASON.
HOLDING RESTRICTIONS: MOVED ESTABLISHED PATTERN RESTRICTION FROM REMARKS.
PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED SECTION (TRANSCRIBED FROM PREVIOUS FORMAT).
REMARKS: ADDED PRECIPITOUS TERRAIN EVALUATION.
FIX USE: UPDATED.

DEVELOPED BY: **DATE:** 07/23/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (RICHARD BRUCE)

APPROVED BY: **DATE:** 12/16/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER: IAD AND MRB ATCT

QUALITY 3 CHECKED

INFO ONLY