Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 07/07/2011	Task #: 2011070726620801003	Request #: 20110707266208
Procedure: RNAV (RNP) Z RWY 2 R AMDT 1		**Airport ID:** KBNA	**Airport:** NASHVILLE INTL		**Reimbursable #:**
City: NASHVILLE	**ST:** TN	**GPS #:**		**Estimated Chart Date:** 11/15/2012	**FICO #:**
Fac ID:	**Fac. Type:** Proc-P	**Specialist:** CHRISTOPHER COX			

P2

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/07/2012	08/13/2012	MARLON ROBINSON	
QA:	08/13/2012	08/17/2012	STEVEN SZUKALA	
Liaison:	08/17/2012		K. Spurlin	P2 - WAIVER

Procedure Comments: ENROUTE **Remark Type:** INFORMATION PKG 5 of 6

NASHVILLE, TN NASHVILLE INTL (KBNA) RNAV (RNP) Z RWY 2R, AMDT 1 ENROUTE-YES FC BY 9/18/12 PUB 11/15/12

ATTACHED FORMS: 8260-3, 8260-9, 8260-10, 8260-1
8260-2(S): ATKNS INT REV 3, CFVTB ORIG, CFVTM ORIG, CFVTP ORIG, CIVEN ORIG, JOVAB ORIG, NIBCI ORIG, PUCIC ORIG, PUCOR ORIG, REQPA ORIG, REYPY ORIG, TETCU ORIG, TUPIE ORIG, WAMAR ORIG, WAYLN INT REV 1 (INFO ONLY); WIPEN ORIG, ZODKA ORIG,

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

NASHVILLE, TENNESSEE | AL-282 (FAA) | FIG

RNAV (RNP) Z RWY 2R

NASHVILLE INTL (BNA)

APP CRS	Rwy ldg	8000
021°	THRE	590
	Apt Elev	599

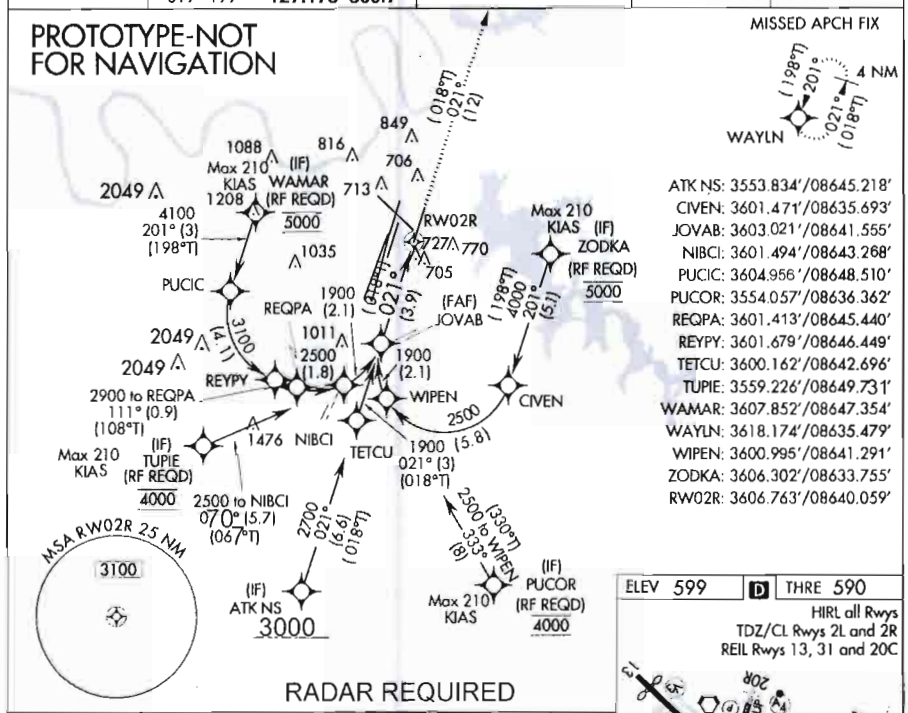
For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). GPS required. For inoperative ALSF, increase RNP 0.20 all Cats visibility to RVR 6000 RNP 0.30 all Cats visibility to 1½.
Simultaneous approach authorized with ILS or LOC Rwy 2L, ILS Rwy 2L (Cat II), ILS Rwy 2L (Cat III). Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

MISSED APPROACH: Climb to 3000 on track 021° to WAYLN and hold.

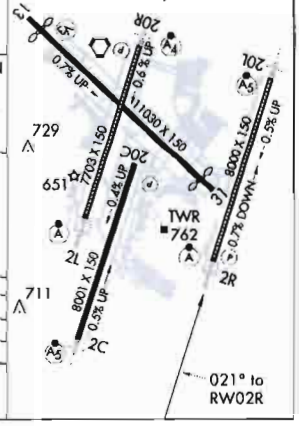
ATIS	NASHVILLE APP CON	NASHVILLE TOWER	GND CON	CLNC DEL
135.1	200°-018° 120.6 372.0 019°-199° 127.175 360.7	118.6 257.8	121.9 348.6	126.05

PROTOTYPE-NOT FOR NAVIGATION



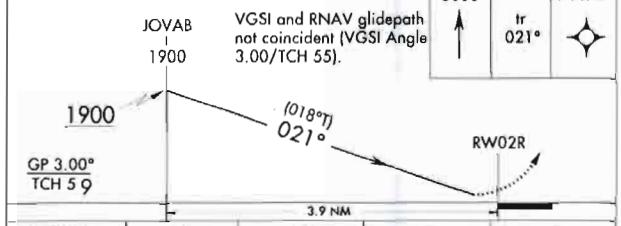
ELEV 599 | D | THRE 590

HIRL all Rwys
TDZ/CL Rwys 2L and 2R
REIL Rwys 13, 31 and 20C



SEE PLANVIEW FOR MULTIPLE IF LOCATIONS

3000 ↑ | tr 021° | WAYLN



CATEGORY	A	B	C	D
RNP 0.20 DA		969/40	379(400-¾)	
RNP 0.30 DA		1034/50	444 (500-1)	

AUTHORIZATION REQUIRED

NASHVILLE, TENNESSEE
Amdt 1 FIG

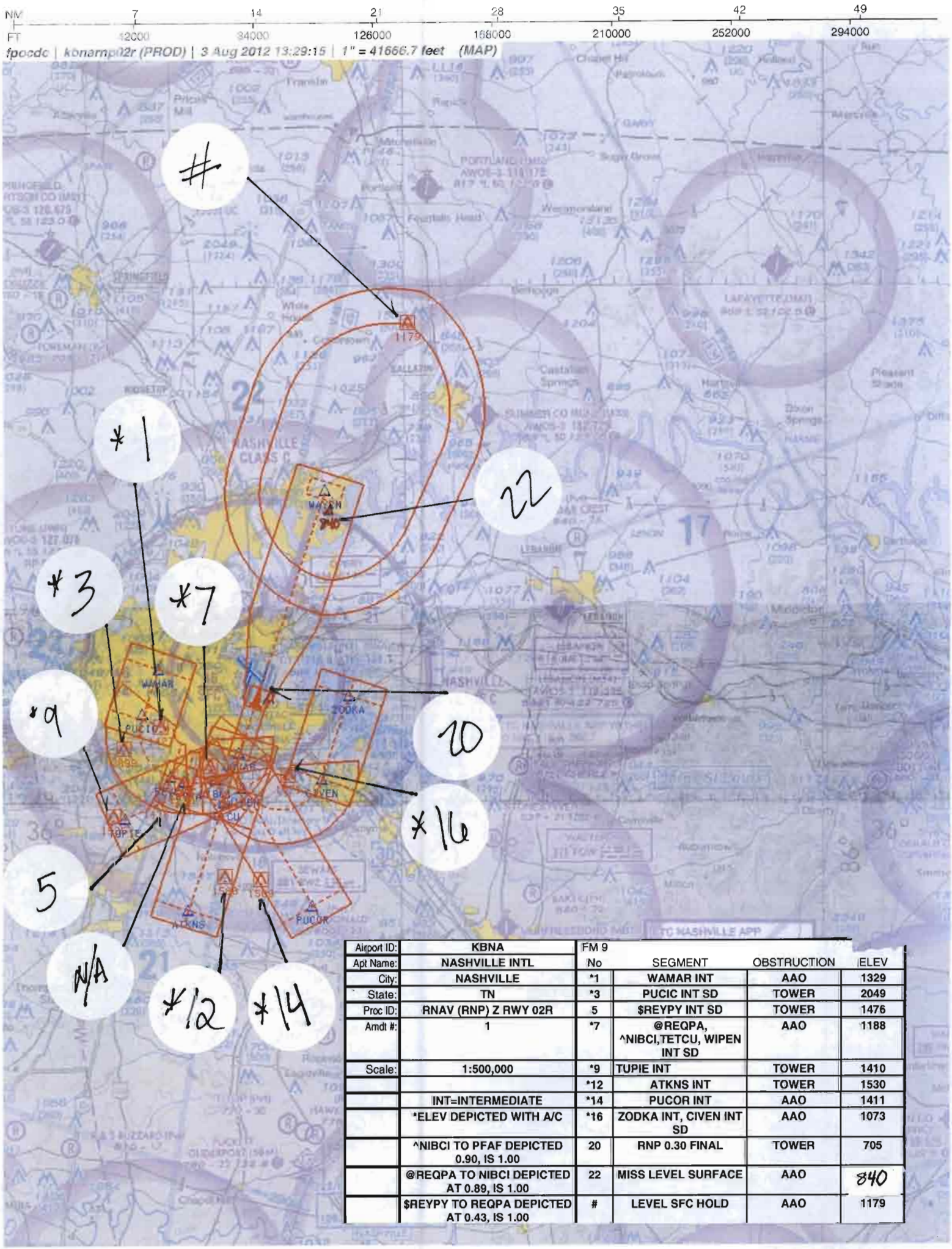
36°07'N-86°41'W

NASHVILLE INTL (BNA)

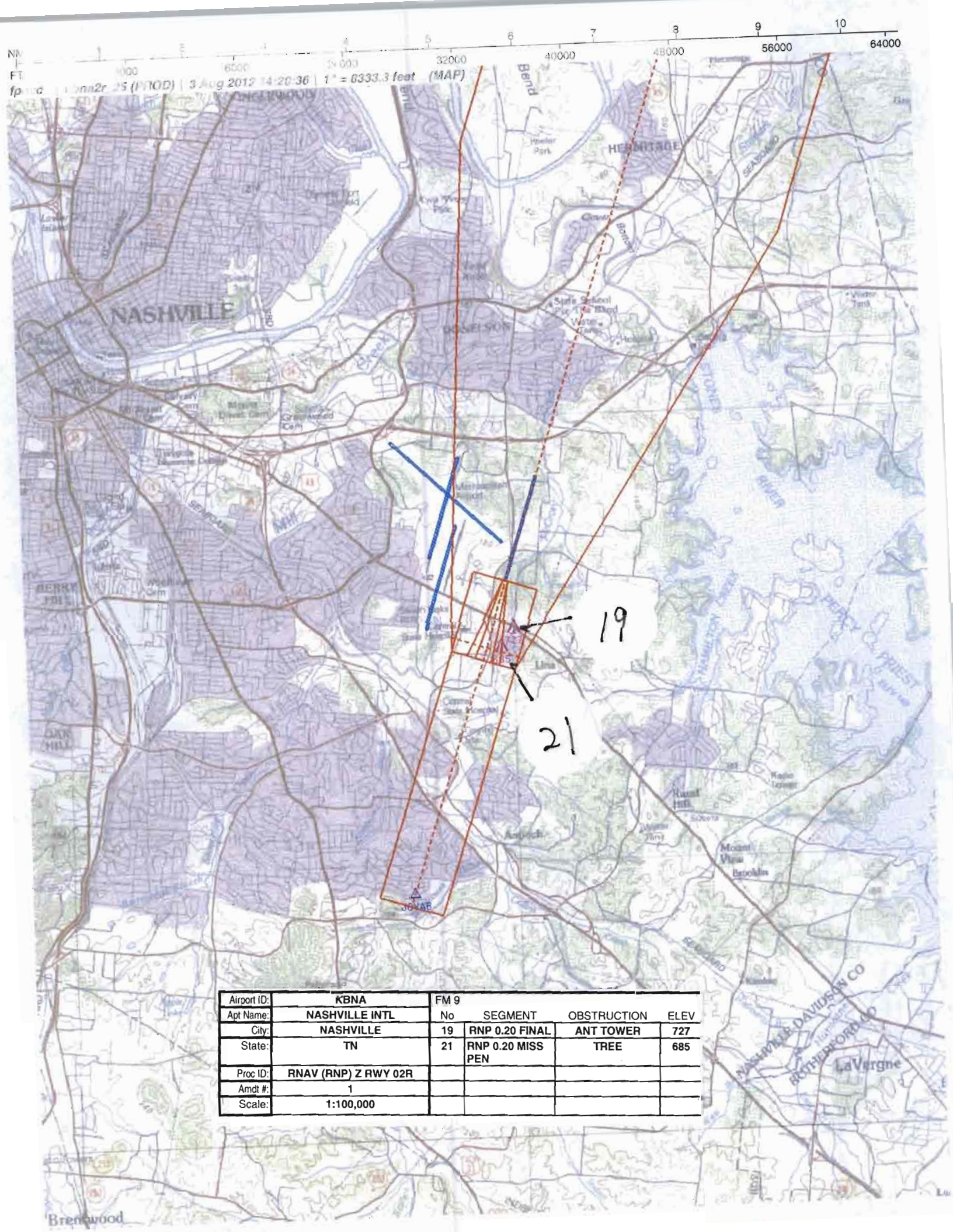
RNAV (RNP) Z RWY 2R

AUTOMATED AL-282 RNAV (RNP) Z RWY 2R

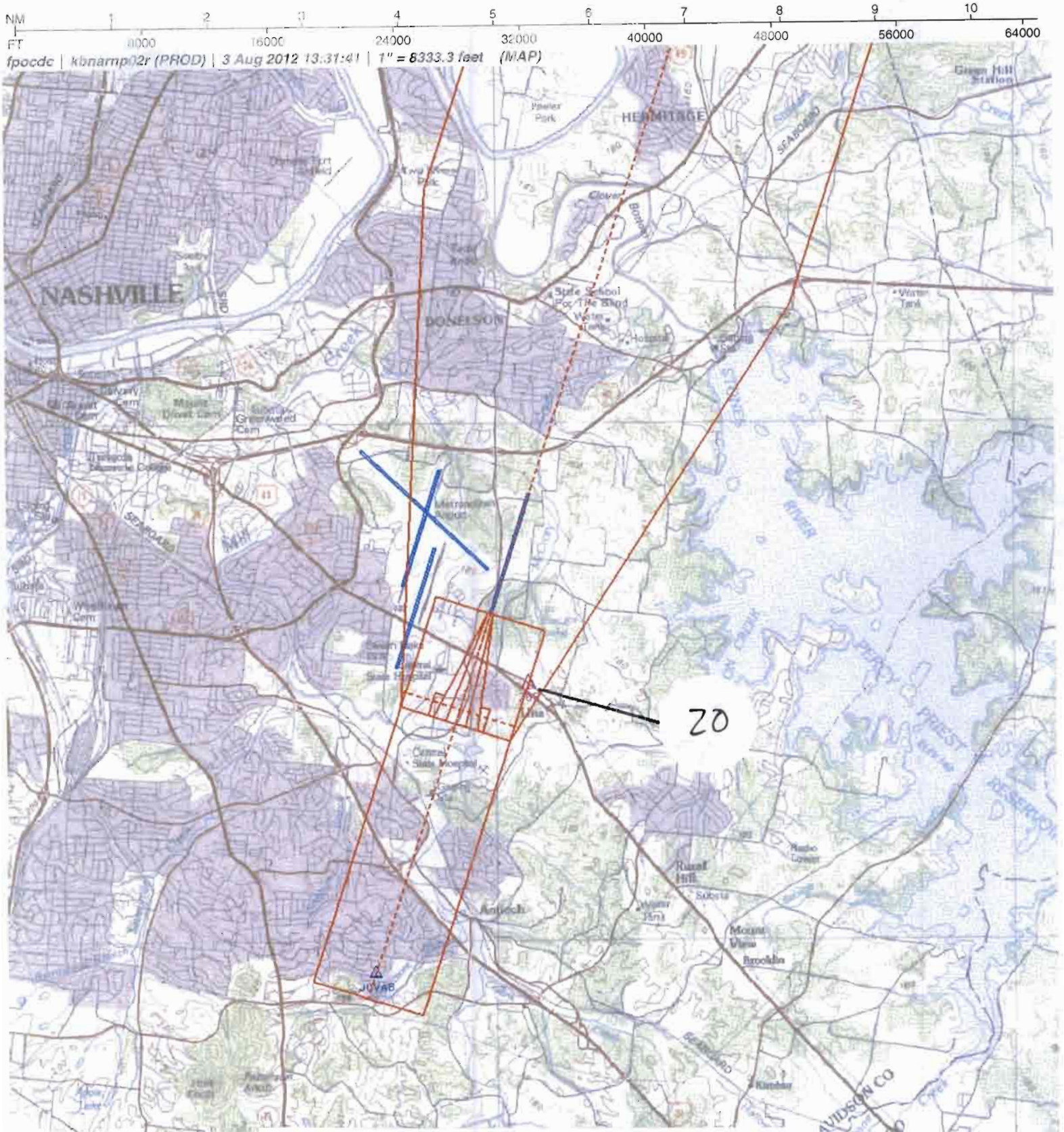
SE-1
07/06/12
COMPILER: AG
REVIEWER:
DBL CHK:
EFF: FIG



Airport ID:	KBNA	FM 9			
Apt Name:	NASHVILLE INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	NASHVILLE	*1	WAMAR INT	AAO	1329
State:	TN	*3	PUCIC INT SD	TOWER	2049
Proc ID:	RNAV (RNP) Z RWY 02R	5	$REYPY INT SD	TOWER	1476
Amdt #:	1	*7	@REQPA, ^NIBCI,TETCU, WIPEN INT SD	AAO	1188
Scale:	1:500,000	*9	TUPIE INT	TOWER	1410
		*12	ATKNS INT	TOWER	1530
	INT=INTERMEDIATE	*14	PUCOR INT	AAO	1411
	*ELEV DEPICTED WITH A/C	*16	ZODKA INT, CIVEN INT SD	AAO	1073
	^NIBCI TO PFAF DEPICTED 0.90, IS 1.00	20	RNP 0.30 FINAL	TOWER	705
	@REQPA TO NIBCI DEPICTED AT 0.89, IS 1.00	22	MISS LEVEL SURFACE	AAO	840
	$REYPY TO REQPA DEPICTED AT 0.43, IS 1.00	#	LEVEL SFC HOLD	AAO	1179

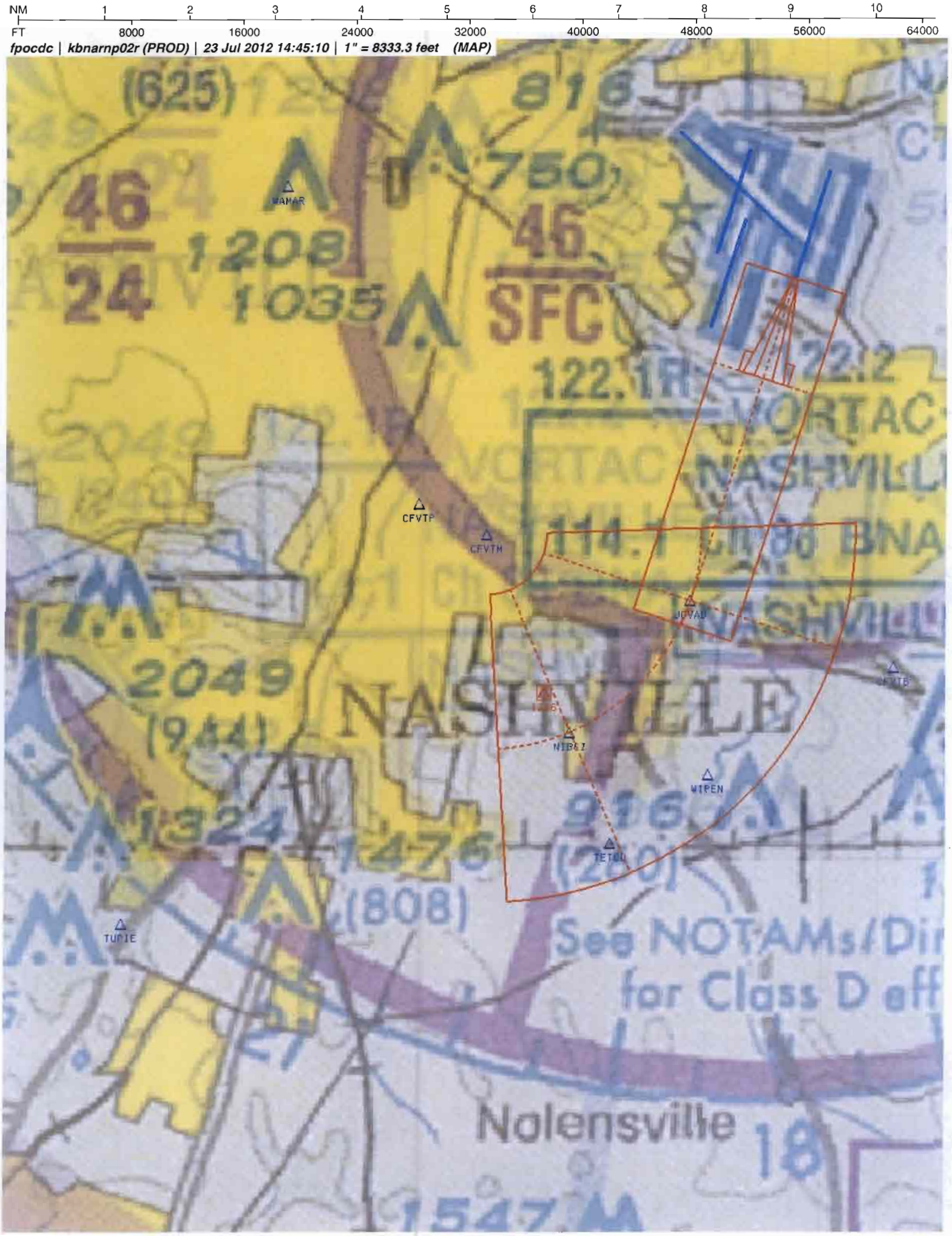


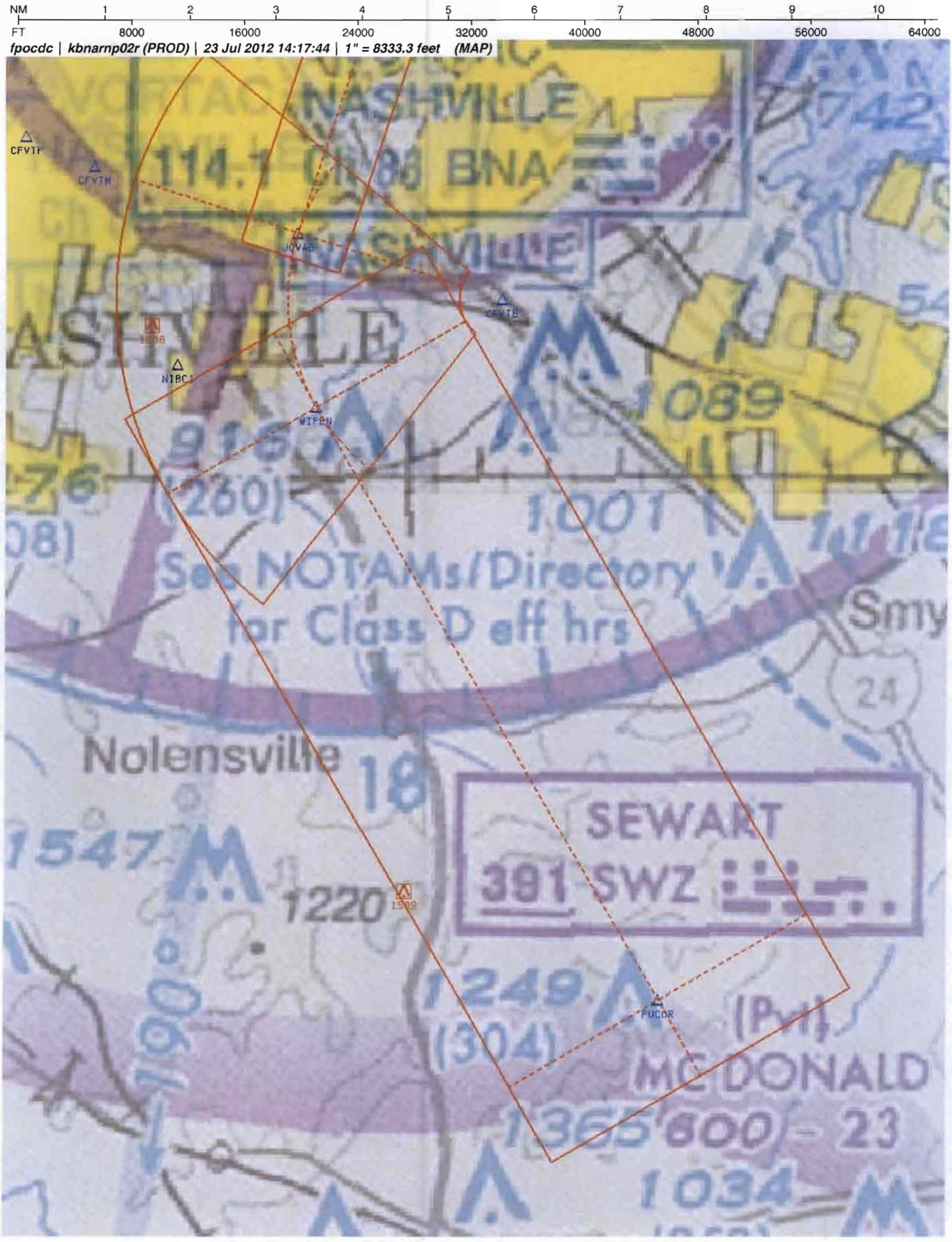
Airport ID:	KBNA	FM 9			
Apt Name:	NASHVILLE INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	NASHVILLE	19	RNP 0.20 FINAL	ANT TOWER	727
State:	TN	21	RNP 0.20 MISS PEN	TREE	685
Proc ID:	RNAV (RNP) Z RWY 02R				
Amdt #:	1				
Scale:	1:100,000				



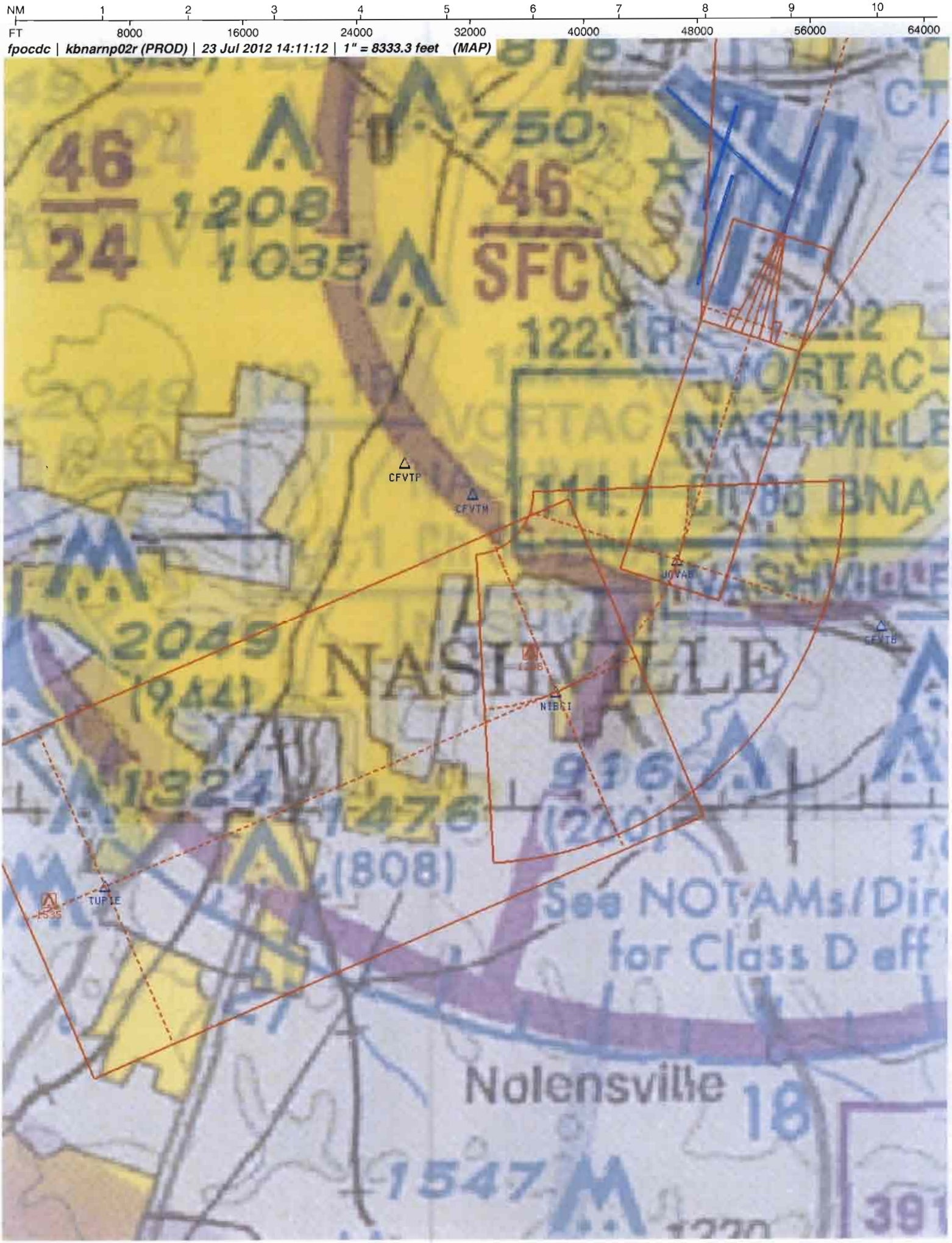
Airport ID:	KBNA	FM 9			
Apt Name:	NASHVILLE INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	NASHVILLE	20	RNP 0.30 FINAL	TOWER	705
State:	TN				
Proc ID:	RNAV (RNP) Z RWY 02R				
Amdt #:	1				
Scale:	1:100,000				

NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpocdc | kbnarnp02r (PROD) | 23 Jul 2012 13:56:25 | 1" = 8333.3 feet (MAP)
NASHVILLE
VORTAC
NASHVILLE
114.1 Ch 88 BNA
JOVAD
NASHVILLE
TETEU
See NOTAMs/Directory
for Class D eff hrs
Nolensville
SEWART


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpocdc | kbnarnp02r (PROD) | 23 Jul 2012 14:45:10 | 1" = 8333.3 feet (MAP)
WAMAR
CFVTP
CFVTM
JOVAU
NIBBI
WIPEN
TETOU
TUPIE
NASHVILLE
See NOTAMs/Dir
for Class D eff
Nolensville


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpocdc | kbnarnp02r (PROD) | 23 Jul 2012 14:17:44 | 1" = 8333.3 feet (MAP)
NASHVILLE
114.1 Ch 88 BNA
CFVTF
CFVTH
JQVAB
CFVTB
NIBCI
WIPPN
See NOTAMs/Directory
for Class D eff hrs
Nolensville
SEWART
391 SWZ
PUCOR
MC DONALD
1089
1001
1220
1249
(304)
1365 600 - 23
1034

NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpocdc | kbnarnp02r (PROD) | 23 Jul 2012 14:40:40 | 1" = 8333.3 feet (MAP)
46
SFC
122.1R
122.2
122.55
VORTAC
NASHVILLE
114.1 Ch 86 BNA
CFVTF
CFVTM
JOVAB
CFVTB
NASHVILLE
NIBCI
WIPEN
TEICU
1089
1476
(808)
1001
See NOTAMs/Directory
for Class D eff hrs
Nolensville
18
SEWART
391 SWZ
1547
1220


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpocdc | kbnarnp02r (PROD) | 23 Jul 2012 14:11:12 | 1" = 8333.3 feet (MAP)
46
24
1208
1035
750
46
SFC
122.1R
VORTAC
NASHVILLE
CFVTP
CFVTM
JOVAB
CFVTB
NASHVILLE
NIBCI
2049
(944)
1324
1476
(808)
TUPIE
See NOTAMs/Dir
for Class D eff
Nolensville
18
1547

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WAMAR (IF)	PUCIC (TF) (FB) (RNP 1.00)	200.95 / 3.04	4100
PUCIC	REYPY (RF) (FB) (RNP 1.00)	(2.60 NM RADIUS CCW (CFVTP))/4.08	3100
REYPY	REQPA (TF) (FB) (RNP 1.00)	110.99 / 0.86	2900
REQPA	NIBCI (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFVTM))/1.80	2500
TUPIE (IF)	NIBCI (TF) (FB) (RNP 1.00)	069.60 / 5.71	2500
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 3000 ON TRACK 020.99 TO WAYLN AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 201.04 INBOUND.
CHART FAS OBST: 727 ANT ON OL TWR 360608N/0863958W
CHART FAS OBST: 705 TOWER 360558N/0863934W
DISTANCE TO THLD FROM 379 HATH: 1.00 NM.
CHART MANDATORY 5000 AT WAMAR
CHART MANDATORY 5000 AT ZODKA
CHART MANDATORY 4000 AT PUCOR
CHART MANDATORY 4000 AT TUPIE
#TCH 649.1 MSL (DO NOT CHART)
ROUTE TYPE: A,H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
CHART LOC RWY 2L.
CHART AT OR ABOVE 3000 AT ATKNS

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT JOVAB
3. FAC: 020.98 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: JOVAB 1900
5. DIST TO THLD FROM OM: 3.93 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1900 GS ALT AT: JOVAB 1900 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 59.4# 34:1 IS NOT CLEAR
8. MSA FROM: RW02R 3100

MAG VAR: 3W EPOCH YEAR: 2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.20 DA	969	4000	379	969	4000	379	969	4000	379	969	4000	379			
RNP 0.30 DA	1034	5000	444	1034	5000	444	1034	5000	444	1034	5000	444			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE AT ZODKA : MAX 210 KIAS.

(SEE FORM 8260-10)

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 599 THRE: 590 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
NASHVILLE, TN	NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	AMDT: ORIG-B
				DATED 04/05/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X ZME, BNA APP CON, BNA ATCT, APT MGR

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
CHRISTOPHER COX	AJV-352	07/02/2012

APPROVED BY

NAME:		FIFO	DATE:
DARRYEL ADAMS	MANAGER	AJV-352	

CHANGES:

1. REMOVED SYI VOR AND TUNGY TRANSITIONS TO ATKNS AND ASSOCIATED NOTES.
2. ADDED RF INITIALS AND ASSOCIATED NOTES/RESTRICTIONS
3. FAF WAS SKAGS, IS JOVAB AND WAS 2500/5.7 NM, IS 1900/3.93 NM.
4. ADDED RNP 0.20 FINAL
5. RNP 0.30 DA/HATH WAS 1026/436, IS 1034/444.
6. CHANGED INOP VISI NOTE TO INCLUDE RNP 0.20 MINIMA
7. ATKNS INTERMEDIATE CHANGED: SDF ADDED

REASONS:

1/2/3/7. DESIGN REQUEST
4. TO ACHIEVE BETTER MINIMA
5. FOR DA/HATH CHANGES: OBSTACLES THAT WERE PREVIOUSLY CASE STUDIES WERE ADDED TO THE D.O.F. AND ACCURACIES WERE UPDATED
6. ADDED RNP 0.20 FINAL MINIMA

10/05/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/02/2012.
1. #7 OF THE CHANGES UPDATED: ALTITUDE INCREASE FROM 3000 T0 4000 REMOVED AT ATKNS

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
NIBCI	JOVAB (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFVTM))/2.13	1900
ATKNS (IF)	TETCU (TF) (FB) (RNP 1.00)	020.94 / 6.64	2700
TETCU	JOVAB (TF) (FB) (RNP 1.00)	020.96 / 3.00	1900
PUCOR (IF)	WIPEN (TF) (FB) (RNP 1.00)	333.01 / 8.00	2500
ZODKA (IF)	CIVEN (TF) (FB) (RNP 1.00)	201.05 / 5.07	4000
CIVEN	WIPEN (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CW (CFVTB))/5.76	2500
WIPEN	JOVAB (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CW (CFVTB))/2.10	1900
JOVAB (FAF)	RW02R (MAP) (TF) (FO)	020.98 / 3.93	
RW02R (MAP)	WAYLN (TF) (FO) (RNP 1.00)	020.99/11.98	3000

NOTES, (CONT.):
CHART PLANVIEW NOTE AT WAMAR : MAX 210 KIAS.
CHART PLANVIEW NOTE AT PUCOR : MAX 210 KIAS.
CHART PLANVIEW NOTE AT TUPIE : MAX 210 KIAS.
CHART PLANVIEW NOTE ADJACENT TO WAMAR: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO TUPIE: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO PUCOR: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO ZODKA: RF REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: FOR INOPERATIVE ALSF, INCREASE RNP 0.20 ALL CATS VISIBILITY TO RVR 6000, RNP 0.30 ALL CATS VISIBILITY TO 1 1/2.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 2L, ILS RWY 2L (CAT II), ILS RWY 2L (CAT III).
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PLANVIEW NOTE: RADAR REQUIRED

QUALITY CHECKED

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (RNP)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ATKNS K70    C     N35535003W086451308                    W0034     NAR           ATKNS
        SUSAEAENRT   CFVTB K70    W     N36021488W086383737                    W0035     NAR           CNF(CFVTB)
        SUSAEAENRT   CFVTM K70    W     N36034761W086442926                    W0034     NAR           CNF(CFVTM)
        SUSAEAENRT   CFVTP K70    W     N36040929W086452748                    W0034     NAR           CNF(CFVTP)
        SUSAEAENRT   CIVEN K70    W     N36012827W086354156                    W0035     NAR           CIVEN
        SUSAEAENRT   JOVAB K70    W     N36030128W086413329                    W0034     NAR           JOVAB
        SUSAEAENRT   NIBCI K70    W     N36012966W086431606                    W0034     NAR           NIBCI
        SUSAEAENRT   PUCIC K70    W     N36045737W086483058                    W0033     NAR           PUCIC
        SUSAEAENRT   PUCOR K70    W     N35540341W086362172                    W0035     NAR           PUCOR
        SUSAEAENRT   REQPA K70    W     N36012475W086452640                    W0034     NAR           REQPA
        SUSAEAENRT   REYPY K70    W     N36014071W086462691                    W0034     NAR           REYPY
        SUSAEAENRT   TETCU K70    W     N36000973W086424178                    W0034     NAR           TETCU
        SUSAEAENRT   TUPIE K70    W     N35591354W086494384                    W0033     NAR           TUPIE
        SUSAEAENRT   WAMAR K70    W     N36075112W086472123                    W0034     NAR           WAMAR
        SUSAEAENRT   WAYLN K70    C     N36181044W086352874                    W0035     NAR           WAYLN
        SUSAEAENRT   WIPEN K70    W     N36005971W086411748                    W0034     NAR           WIPEN
        SUSAEAENRT   ZODKA K70    W     N36061810W086334527                    W0035     NAR           ZODKA

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBNAK7ABNA     0     110YHN36072810W086404150W003000599          1800018000C    MNAR    NASHVILLE INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBNAK7FH02RZ AATKNS 010ATKNSK7EA0E  B    IF                                  + 03000     18000               A FS
        SUSAP KBNAK7FH02RZ AATKNS 020TETCUK7EA0E    010TF                                 + 02700                         A FS
        SUSAP KBNAK7FH02RZ AATKNS 030JOVABK7EA0EE   010TF                                 + 01900                         A FS
        SUSAP KBNAK7FH02RZ APUCOR 010PUCORK7EA0E  B    IF                                    04000     18000210            A-FS
        SUSAP KBNAK7FH02RZ APUCOR 020WIPENK7EA0E    010TF                                 + 02500                         A FS
        SUSAP KBNAK7FH02RZ APUCOR 030JOVABK7EA0EE  R010RF       0025003330    02100021    + 01900               CFVTB K7EAA FS
        SUSAP KBNAK7FH02RZ ATUPIE 010TUPIEK7EA0E  B    IF                                    04000     18000210            A-FS
        SUSAP KBNAK7FH02RZ ATUPIE 020NIBCIK7EA0E    010TF                                 + 02500                         A FS
        SUSAP KBNAK7FH02RZ ATUPIE 030JOVABK7EA0EE  L010RF       0025000696    02100021    + 01900               CFVTM K7EAA FS
        SUSAP KBNAK7FH02RZ AWAMAR 010WAMARK7EA0E  B    IF                                    05000     18000210            A-FS
        SUSAP KBNAK7FH02RZ AWAMAR 020PUCICK7EA0E    010TF                                 + 04100                         A FS
        SUSAP KBNAK7FH02RZ AWAMAR 030REYPYK7EA0E   L010RF       0026002010    11100041    + 03100               CFVTP K7EAA FS
        SUSAP KBNAK7FH02RZ AWAMAR 040REQPAK7EA0E    010TF                                 + 02900                         A FS
        SUSAP KBNAK7FH02RZ AWAMAR 050NIBCIK7EA0E   L010RF       0025001110    06960018    + 02500               CFVTM K7EAA FS
        SUSAP KBNAK7FH02RZ AWAMAR 060JOVABK7EA0EE  L010RF       0025000696    02100021    + 01900               CFVTM K7EAA FS
```

CITY AND STATE	ELEVATION: 599 THRE: 590	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHVILLE, TN	AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	AMDT: ORIG B
				DATED: 04/05/2012

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

```
SUSAP KBNAK7FH02RZ AZODKA 010ZODKAK7EA0E  B    IF                                    05000     18000210             A-FS
SUSAP KBNAK7FH02RZ AZODKA 020CIVENK7EA0E    010TF                               + 04000                          A FS
SUSAP KBNAK7FH02RZ AZODKA 030WIPENK7EA0E   R010RF       0025002011    33300058   + 02500                CFVTB K7EAA FS
SUSAP KBNAK7FH02RZ AZODKA 040JOVABK7EA0EE  R010RF       0025003330    02100021   + 01900                CFVTB K7EAA FS
SUSAP KBNAK7FH02RZ H      020JOVABK7EA1E  F    IF                                + 01900     18000      RW02R K7PGA FS
SUSAP KBNAK7FH02RZ H      020JOVABK7EA2W                                             A031A021                    FS
SUSAP KBNAK7FH02RZ H      030RW02RK7PG0GY M 031TF                                   00649          -300          A FS
SUSAP KBNAK7FH02RZ H      040WAYLNK7EA0EYM  010TF                                 + 03000                          A FS
SUSAP KBNAK7FH02RZ H      050WAYLNK7EA0EE  L   HM                    20100040   + 03000                          A FS
```

```
            1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBNAK7GRW02R   0080000210 N36064577W086400352-0600    +01506005900000591501IUQU3
```

```
            1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBNAK7SRW02RK7PG              0   18018003125                                                                    M
```

CITY AND STATE	ELEVATION: 599 THRE: 590	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHVILLE, TN	AIRPORT NAME: **NASHVILLE INTL**	**RNAV**	**RNAV (RNP) Z RWY 2R, AMDT 1**	AMDT: **ORIG B**
				DATED: **04/05/2012**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ATKNS	ATKNS	010		IF		FB				AA 03000	
	ATKNS	TETCU	020		TF		FB	1.0			AA 02700	
	ATKNS	JOVAB	030		TF		FB	1.0			AA 01900	
	PUCOR	PUCOR	010		IF		FB				AT 04000	AB 210
	PUCOR	WIPEN	020		TF		FB	1.0			AA 02500	
	PUCOR	JOVAB	030		RF	R	FB	1.0		002.1	AA 01900	
	TUPIE	TUPIE	010		IF		FB				AT 04000	AB 210
	TUPIE	NIBCI	020		TF		FB	1.0			AA 02500	
	TUPIE	JOVAB	030		RF	L	FB	1.0		002.1	AA 01900	
	WAMAR	WAMAR	010		IF		FB				AT 05000	AB 210
	WAMAR	PUCIC	020		TF		FB	1.0			AA 04100	
	WAMAR	REYPY	030		RF	L	FB	1.0		004.1	AA 03100	
	WAMAR	REQPA	040		TF		FB	1.0			AA 02900	
	WAMAR	NIBCI	050		RF	L	FB	1.0		001.8	AA 02500	
	WAMAR	JOVAB	060		RF	L	FB	1.0		002.1	AA 01900	
	ZODKA	ZODKA	010		IF		FB				AT 05000	AB 210
	ZODKA	CIVEN	020		TF		FB	1.0			AA 04000	
	ZODKA	WIPEN	030		RF	R	FB	1.0		005.8	AA 02500	
	ZODKA	JOVAB	040		RF	R	FB	1.0		002.1	AA 01900	
		JOVAB	020	FAF	IF		FB				AA 01900	
		RW02R	030	MAP	TF		FO	0.3			AT 00649	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	WAYLN	040		TF		FO	1.0			AA 03000	
	WAYLN	050		HM	L	FO		201.0(198.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATKNS	N355350.03	W0864513.08	N3553.834	W08645.218
	CFVTB	N360214.88	W0863837.37	N3602.248	W08638.623
	CFVTM	N360347.61	W0864429.26	N3603.794	W08644.488
	CFVTP	N360409.29	W0864527.48	N3604.155	W08645.458
	CIVEN	N360128.27	W0863541.56	N3601.471	W08635.693
	JOVAB	N360301.28	W0864133.29	N3603.021	W08641.555
	NIBCI	N360129.66	W0864316.06	N3601.494	W08643.268
	PUCIC	N360457.37	W0864830.58	N3604.956	W08648.510
	PUCOR	N355403.41	W0863621.72	N3554.057	W08636.362
	REQPA	N360124.75	W0864526.40	N3601.413	W08645.440
	REYPY	N360140.71	W0864626.91	N3601.679	W08646.449
	TETCU	N360009.73	W0864241.78	N3600.162	W08642.696
	TUPIE	N355913.54	W0864943.84	N3559.226	W08649.731

CITY AND STATE	ELEVATION: 599 THRE: 590	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHVILLE, TN	AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	AMDT: ORIG B
				DATED: 04/05/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

WAMAR	N360751.12	W0864721.23	N3607.852	W08647.354
WAYLN	N361810.44	W0863528.74	N3618.174	W08635.479
WIPEN	N360059.71	W0864117.48	N3600.995	W08641.291
ZODKA	N360618.10	W0863345.27	N3606.302	W08633.755
RW02R	N360645.77	W0864003.52	N3606.763	W08640.059

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW02R	00590	59

CITY AND STATE	ELEVATION: 599 THRE: 590	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHVILLE, TN	AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	AMDT: ORIG B
				DATED: 04/05/2012

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE: (RNP 1.00)	WAMAR	PUCIC	1. AAO	360409.00N/0864709.00W	1329 (4E)	500	AC98 AT2173	4100
			2. TERRAIN	360518.00N/0864930.00W	811 (800)		AS1500	2300
INTERMEDIATE: (RNP 1.00)	PUCIC	REYPY	3. TOWER (47-002263)	360250.42N/0864948.93W	2049 (5D)	500	AC50 AT501	3100
STEPDOWN			4. TERRAIN	360409.00N/0864709.00W	1129 (1100)		AS1500	2600
INTERMEDIATE: (RNP 1.00)	REYPY	REQPA	5. TOWER (47-000013)	355953.00N/0864727.00W	1476 (2D)	500	AC50 AT874	2900
STEPDOWN			6. TERRAIN	360045.00N/0864542.00W	899 (900)		AS1500	2400
INTERMEDIATE: (RNP 1.00)	REQPA	NIBCI	7. AAO	360151.00N/0864339.00W	1188 (4E)	500	AC98	1800
STEPDOWN			8. TERRAIN	360151.00N/0864339.00W	988 (1000)		AS1500	2500
INTERMEDIATE: (RNP 1.00)	TUPIE	NIBCI	9. TOWER (47-002537)	355858.40N/0865031.60W	1410 (5E)	500	AC125 AT465	2500
			10. TERRAIN	355939.00N/0864918.00W	1106 (1100)		AS1000	2100
INTERMEDIATE: (RNP 1.00)	NIBCI	JOVAB	7. AAO	360151.00N/0864339.00W	1188 (4E)	500	AC98	1800
STEPDOWN			11. TERRAIN	360154.00N/0864318.00W	945 (900)		AS1000	1900
INTERMEDIATE: (RNP 1.00)	ATKNS	TETCU	12. TOWER (47-001005)	355522.00N/0864238.00W	1530 (5D)	500	AC50	2100
			13. TERRAIN	355521.00N/0864224.00W	1218 (1200)		AS1500	2700
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:								
ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW02R**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR(47-000119)	247/ 08.8	2049 (4D)	3100					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
NASHVILLE, TN	ELEVATION: 599 AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
BNA APP CON BNA TOWER	[ ] NWS [ ] FAA [ ] A/C OTHER: ASOS	SOURCE: KBNA DISTANCE: HOURS REMOTE OPERATION:
SATISFACTORY ON: [X] VHF [X] UHF [ ] HF	LOCATION: KBNA	ADJUSTMENT: 0

4. MONITOR STATUS		
	PRIMARY NAVAID:	
	MONITOR POINT:	
HRS OPTN:	CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
X	ALSF-2 02L, 02R
	(S) SALS
X	MALSR 02C, 20L MALSF 20R
X	HIRL 20C, 31, 02C, 20R, 13, 20L, 02L, 02R
	MIRL
X	REIL 20C, 31, 13
X	TDZ 02L, 02R
X	C/L 20R, 20L, 02L, 02R
X	OTHER (SPECIFY) PAPI-4R 20R, 02R VASI-6L 13 PAPI-4L 20C

6. RUNWAY MARKINGS	
BASIC	
ALL WEATHER	PIR-G 20C, 31, 02C, 20R, 13, 20L, 02L, 02R
INSTRUMENT	

7. RUNWAY VISUAL RANGE	
APPROACH	02C, 20R, 20L, 02L, 02R
MIDFIELD	20L, 02R
ROLL OUT	20R, 20L, 02L, 02R

8. GLIDE PATH		
GP ANGLE: 3.00	ELEV RWY THRESHOLD: 589.7	
DISTANCE FROM RWY:	ELEV GP ANTENNA:	
	THRESHOLD CROSSING HEIGHT: 54.9	

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: 1
ORDER 8260.52, PARAGRAPH 2.3: MEMO DATED 02/06/12 ESTABLISHING THE MINIMUM SEGMENT LENGTH FOR PBN PROCEDURES AS 2 TIMES THE RNP VALUE OR 1 NM, WHICHEVER IS LESS. THE SEGMENT LENGTH FROM REYPY TO REQPA IS 0.86 NM AND THE MINIMUM CALCULATED LENGTH FOR THIS TF SEGMENT IS 1 NM, MAKING THIS SEGMENT LENGTH LESS THAN REQUIRED BY THE MEMO.

PART D - PREPARED BY:	DATE:
CHRISTOPHER COX	07/02/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

MAX SPEED NIBCI TO JOVAB - 210 KIAS.

MAX SPEED PUCIC TO REYPY - 210 KIAS.

MAX SPEED CIVEN TO WIPEN - 210 KIAS.

MAX SPEED WIPEN TO JOVAB - 210 KIAS.

ISA DEVIATION USED: -30C (3.2F)

VDP NOT ESTABLISHED - PROCEDURE IS RNP.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RFSEGMENT ALT KIAS KTAS HAA VKTW TR BA
NIBCI-JOVAB 2500 210.00 220.50 1901 30.00 2.50 20.11
REQPA-NIBCI 2900 210.00 222.18 2301 54.00 2.50 23.99
PUCIC-REYPY 4118 210.00 227.30 3519 55.00 2.60 24.09

WIPEN-JOVAB 2500 210.00 220.50 1901 30.00 2.50 20.11
CIVEN-WIPEN 4000 210.00 226.80 3401 54.00 2.50 24.71

WAIVER: FAAO 8260.52 PARA 2.3 MEMO DATED 02/06/12 ESTABLISHES THE MINIMUM SEGMENT LENGTH FOR PBN PROCEDURES AS 2 TIMES RNP VALUE OR 1 NM, WHICHEVER IS LESS. THE SEGMENT LENGTH FROM REYPY TO REQPA IS 0.86 NM AND THE MINIMUM CALCULATED LENGTH FOR THIS TF SEGMENT IS 1 NM, MAKING THIS SEGMENT LENGTH LESS THAN REQUIRED BY THE MEMO.

SEE ATTACHED AIRSPACE LETTER.

BLOCK 3: ALTIMETER SETTING
2. ASOS IS ON SERVICE-A
3. BACKUP ALTIMETER SOURCE NOT REQUIRED, REDUNDANT

APPLIED MEMO DATED OCT 03, 2011: REVISED PERFORMANCE BASED ON NAVIGATION (PBN) FLY-BY (FB)/RADIUS-TO-FIX (RF) TURN MAXIMUM BANK ANGLE LIMITS: OMNI-DIRECTIONAL TAILWIND REQUIREMENTS: AND MINIMUM INITIAL DEPARTURE LEG SEGMENT LENGTH DESIGN CRITERIA.

ACT: -16 BASED ON ISA OF -30 (AVERAGE COLD TEMPERATURE SOURCE UNAVAILABLE AT THE TIME OF DEVELOPMENT)

AUTHORIZATION REQUIRED (AR) PER AJV-3 MEMO DATED 05/17/2011.

TAIL WIND DATA DERIVED USING 8260.54A FORMULA 2-3B OR 30 KT TW PER 8260.54A PAR 2.4 STEP 2 EXCEPTION

MEMO DATED 02/06/12 ESTABLISHING THE MINIMUM SEGMENT LENGTH FOR PBN PROCEDURES AS 2 TIMES THE RNP VALUE OR 1 NM, WHICHEVER IS LESS WAS APPLIED TO SEGMENTS BETWEEN REYPY AND REQPA (WAIVER REQ), REQPA AND NIBCI, NIBCI AND JOVAB.

CONT.

QUALITY 4 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE: (RNP 1.00)	TETCU	JOVAB	7. AAO	360151.00N/0864339.00W	1188 (4E)	500	AC98	1800
STEPDOWN			8. TERRAIN	360151.00N/0864339.00W	988 (1000)		AS900	1900
INTERMEDIATE: (RNP 1.00)	PUCOR	WIPEN	14. AAO	355515.00N/0864000.00W	1411 (4E)	500	AC98 AT491	2500
			15. TERRAIN	355515.00N/0864000.00W	1211 (1200)		AS1000	2200
INTERMEDIATE: (RNP 1.00)	ZODKA	CIVEN	16. AAO	360118.00N/0863806.00W	1073 (4E)	500	AC98 AT2329	4000
			17. TERRAIN	360233.00N/0863657.00W	771 (800)		AS1500	2300
INTERMEDIATE: (RNP 1.00)	CIVEN	WIPEN	16. AAO	360118.00N/0863806.00W	1073 (4E)	500	AC98 AT829	2500
STEPDOWN			18. TERRAIN	360121.00N/0863806.00W	873 (900)		AS1500	2400
INTERMEDIATE: (RNP 1.00)	WIPEN	JOVAB	7. AAO	360151.00N/0864339.00W	1188 (4E)	500	AC98	1800
STEPDOWN			8. TERRAIN	360151.00N/0864339.00W	988 (1000)		AS900	1900
FINAL: (RNP 0.20)	JOVAB	RW02R	19. ANT (KBNA0154)	360607.55N/0863957.98W	727 (1A)	21.71:1	AC3 MA5	969/379
FINAL: (RNP 0.30)	JOVAB	RW02R	20. TOWER (47-020260)	360558.21N/0863933.99W	705 (5D)	21.70:1	AC50	1034/444
MISSED APPROACH	DA	RW02R (40:1)	21. TREE (KBNA0077)	360553.56N/0864009.31W	685 (1A)	ASC	AC3	
(RNP 0.20-1.00)								

3. MISSED APPROACH	
MAP:	
ELEV:	

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CANCELLED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
NASHVILLE, TN	ELEVATION: 599 AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS OTHER:	SOURCE:
	☐ FAA	DISTANCE:
	☐ A/C	HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING	
☐	ALS
☐	(S) SALS
☐	MALS
☐	HIRL
☐	MIRL
☐	REIL
☐	TDZ
☐	C/LINE
☐	OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING			
	☐	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	☐	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.

VGSI DATA:79/3

MANDATORY ALTITUDES REQUIRED BY ATC

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
34:1 639.00 TREE (KBNA0063) (20/3)
360628.82N/0864017.74W (0.24)

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
MISSED APPROACH	DA	RW02R (40:1)				ASC		
(RNP 0.30-1.00)								
MISSED APPROACH	RW02R	WAYLN (40:1)				ASC		
(RNP 0.20-1.00)								
MISSED APPROACH	RW02R	WAYLN (40:1)				ASC		
(RNP 0.30-1.00)								
3. MISSED APPROACH MAP:	DA / DA	WAYLN				ASC		3000
			22. AAO	361736.00N/0863521.00W	840 (4E)	1000	AC98	2000
ELEV:	691/711		23. TERRAIN	361033.00N/0864012.00W	722 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
NASHVILLE, TN	ELEVATION: 599 AIRPORT NAME: NASHVILLE INTL	RNAV	RNAV (RNP) Z RWY 2R, AMDT 1	ASO

CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ N W S ☐ F A A ☐ A / C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ V H F ☐ U H F ☐ H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING	
☐	ALS
☐	(S) SALS
☐	MALS
☐	HIRL
☐	MIRL
☐	REIL
☐	TDZ
☐	C/LINE
☐	OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING			
	☐	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	☐	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: ATKNS **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355350.03N/0864513.08W **TYPE:** WP, RADAR, 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	NASHVILLE	I-UQU	LOC/DME		200.99	197.99	15.02	15.05		5000	5000
2	SHELBYVILLE	SYI	VOR/DME	L	323.68	322.68	25.29	25.29		5000	5000
3	NASHVILLE	BNA	VORTAC	H	195.16	193.16		14.75		5000	5000

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	S		WP	200.94	020.94	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-002306)	355520.00N/0864246.00W	1547	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SHELBYVILLE (FAC 2) AND NASHVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-UQU DME COORDINATES 360809.86N-0863935.72W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 2R	1, 2, 3		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT II)	1, 2, 3		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT III)	1, 2, 3		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20L		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2R		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 20L		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
INCREASED FACS 1/2/3 MRA FROM 3000 TO 5000
ADDED FACS USED TO ESTABLISH COORDINATES
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/09/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CFVTB **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360214.88N/0863837.37W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFVTM **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360347.61N/0864429.26W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFVTP **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360409.29N/0864527.48W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: CIVEN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360128.27N/0863541.56W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOVAB **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360301.28N/0864133.29W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NIBCI **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360129.66N/0864316.06W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PUCIC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360457.37N/0864830.58W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY

RADIO FIX AND HOLDING DATA RECORD

NAME: PUCOR **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355403.41N/0863621.72W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)
STAR	SWFFT (RNAV)			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/28/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: REQPA **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360124.75N/0864526.40W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: REYPY **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360140.71N/0864626.91W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TETCU **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360009.73N/0864241.78W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TUPIE **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355913.54N/0864943.84W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)
STAR	CHSNE (RNAV)			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/28/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAMAR **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360751.12N/0864721.23W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)
STAR	RYYMN (RNAV)			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/28/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WAYLN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 361810.44N/0863528.74W **TYPE:** WP, RADAR, 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	NASHVILLE	I-SSX	LOC/DME		021.00	018.00	12.26	12.26		4000	5000

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	N		WP	021.04	201.04	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	362729.00N/0862933.00W	1179	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID CONFLICT WITH HOLDING PATTERNS FOR RWY 20C AND 20R

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
I-SSX DME COORDINATES: 360630.96N/0864012.89W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 20L	1		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20L		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2R		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 20L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R		1	KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
DELETED FAC 2 KBNA R20L INFORMATION.
FIX MOVED 0.26 NM.
ADDED WP TO FIX DESCRIPTION.
FAC 1 RADIAL/COURSE/BEARING CHANGED FROM (017.99) TO (018.00).
ADDED HOLDING PAT 1 INFORMATION.
ADDED I-SSX DME COORDINATES TO REMARKS.
UPDATED FIX USE INFORMATION.
UPDATED LAT/LONG.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED IN REMARKS.

DEVELOPED BY: **DATE:** 02/03/2009 **OFFICE:** AVN-110 **NAME:** GEORGETTE BARNETT

APPROVED BY: **DATE:** 06/30/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

INFO ONLY

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA ATCT/APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WIPEN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360059.71N/0864117.48W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZODKA **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360618.10N/0863345.27W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2R			KBNA	NASHVILLE	TN (US)
STAR	PASLY (RNAV)			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/28/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON, BNA ATCT
OTHER:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
NASHVILLE, TN
NASHVILLE INTL (KBNA)
RNAV (RNP) Z RWY 2R

2. Waiver Required and Applicable Standard:

Memo dated 02/06/12 establishes the minimum segment length for PBN procedures as 2 times RNP value or 1 NM, whichever is less. The segment length from REYPY to REQPA is 0.86 NM and the minimum calculated length for this TF segment is 1 NM, making this segment length less than required by the memo.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

Procedure design requires the use of shared fix WAMAR which limits the movement of REYPY

4. Equivalent Level of Safety Provided:

1. Authorization required for this procedure.
2. The procedure will be validated in the simulator and by Flight Check to meet flyability requirements.
3. The intermediate was satisfactorily evaluated for obstacles based on RNP value of 1.00.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

N/A-RNAV procedure

6. Coordination With User Organizations *(Specify)*:
AJV-352

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**MANAGER, TERMINAL PRODUCTS GROUP**	**GREGORY YAMAMOTO**

FAA FORM 8260 - 1 / July 2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NASHVILLE** STATE: **TN**

AIRPORT NAME: **NASHVILLE INTL** ID: **KBNA**

PROCEDURE: **RNAV (RNP) Z RWY 2R** AMDT: **1**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **4.23**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **INTERMEDIATE** segment at 1000' point **4.00**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **INTERMEDIATE** segment containing 1000' point **017.96**
4. High Terrain in **INTERMEDIATE** segment containing 1000' point **988**
5. Distance from **THLD** to 1500' point **6.89**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **017.96**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **988**
9. Threshold Coordinates (if straight-in) ... **360645.77N** / **0864003.52W**
10. ARP Coordinates ..... **360728.10N** / **0864041.50W**
11. Runway Approach End and distance furthest from ARP ..... RWY **20C**
    Distance **1.35** NM
12. FAF Coordinates ..... **360301.28N** / **0864133.29W**

REMARKS: Approach/Drawing attached.

1500' AND 1000' POINTS ARE IN INTERMEDIATE STEP-DOWN SEGMENTS BETWEEN TETCU AND JOVAB (PFAF)

THIS AIRSPACE IS FOR INTERMEDIATE SEGMENT BEGINNING AT ATKNS (IF)

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NASHVILLE** STATE: **TN**

AIRPORT NAME: **NASHVILLE INTL** ID: **KBNA**

PROCEDURE: **RNAV (RNP) Z RWY 2R** AMDT: **1**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.30**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **017.98**
4. High Terrain in **FINAL** segment containing 1000' point **693**
5. Distance from **THLD** to 1500' point **5.86**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point ******
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **945**
9. Threshold Coordinates (if straight-in) ... **360645.77N** / **0864003.52W**
10. ARP Coordinates ..... **360728.10N** / **0864041.50W**
11. Runway Approach End and distance furthest from ARP ..... RWY **20C**
    Distance **1.35** NM
12. FAF Coordinates ..... **360301.28N** / **0864133.29W**

REMARKS: Approach/Drawing attached.

****1500' POINT IS IN RF SEGMENT BETWEEN NIBCI AND JOVAB (PFAF)**

RF: CFVTM 360347.61N/0864429.26W

THIS IS THE AIRSPACE EVALUATION FOR THE INTERMEDIATE BEGINNING AT WAMAR (IF)

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NASHVILLE** STATE: **TN**

AIRPORT NAME: **NASHVILLE INTL** ID: **KBNA**

PROCEDURE: **RNAV (RNP) Z RWY 2R** AMDT: **1**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **4.23**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **INTERMEDIATE** segment at 1000' point **4.00**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **INTERMEDIATE** segment containing 1000' point *****
4. High Terrain in **INTERMEDIATE** segment containing 1000' point **988**
5. Distance from **THLD** to 1500' point **12.34**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **330.01**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1211**
9. Threshold Coordinates (if straight-in) ... **360645.77N** / **0864003.52W**
10. ARP Coordinates ..... **360728.10N** / **0864041.50W**
11. Runway Approach End and distance furthest from ARP ..... RWY **20C**
    Distance **1.35** NM
12. FAF Coordinates ..... **360301.28N** / **0864133.29W**

REMARKS: Approach/Drawing attached.

***1000' POINT OCCURS IN THE RF SEGMENT BETWEEN WIPEN AND JOVAB (PFAF)**

RF: CFVTB 360214.88N/0863837.37W

THIS IS THE AIRSPACE EVALUATION FOR THE INTERMEDIATE BEGINNING AT PUCOR (IF)

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NASHVILLE** STATE: **TN**

AIRPORT NAME: **NASHVILLE INTL** ID: **KBNA**

PROCEDURE: **RNAV (RNP) Z RWY 2R** AMDT: **1**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **4.23**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **INTERMEDIATE** segment at 1000' point **4.00**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **INTERMEDIATE** segment containing 1000' point *****
4. High Terrain in **INTERMEDIATE** segment containing 1000' point **988**
5. Distance from **THLD** to 1500' point **5.90**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point *****
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **988**
9. Threshold Coordinates (if straight-in) ... **360645.77N** / **0864003.52W**
10. ARP Coordinates ..... **360728.10N** / **0864041.50W**
11. Runway Approach End and distance furthest from ARP ..... RWY **20C**
    Distance **1.35** NM
12. FAF Coordinates ..... **360301.28N** / **0864133.29W**

REMARKS: Approach/Drawing attached.

***1500' AND 1000' POINTS OCCUR IN THE RF SEGMENT BETWEEN WIPEN AND JOVAB (PFAF)**

RF: CFVTB 360214.88N/0863837.37W

THIS IS THE AIRSPACE EVALUATION FOR THE INTERMEDIATE BEGINNING AT ZODKA (IF)

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NASHVILLE** STATE: **TN**

AIRPORT NAME: **NASHVILLE INTL** ID: **KBNA**

PROCEDURE: **RNAV (RNP) Z RWY 2R** AMDT: **1**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.00**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **017.98**
4. High Terrain in **FINAL** segment containing 1000' point **693**
5. Distance from **THLD** to 1500' point **7.12**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **066.60**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1106**
9. Threshold Coordinates (if straight-in) ... **360645.77N** / **0864003.52W**
10. ARP Coordinates ..... **360728.10N** / **0864041.50W**
11. Runway Approach End and distance furthest from ARP ..... RWY **20C**
    Distance **1.35** NM
12. FAF Coordinates ..... **360301.28N** / **0864133.29W**

REMARKS: Approach/Drawing attached.

1500' POINT IS IN TF SEGMENT BETWEEN TUPIE (IF) AND NIBCI

THIS AIRSPACE IS FOR INTERMEDIATE SEGMENT BEGINNING AT TUPIE (IF)

KBNA
RNAV (RNP) Z RWY 2R
NIBCI TO PFAF
(OBS # 7 W/250' A/C APPLIED)

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	1900
LTP Elevation:	589.7
Glidepath Angle:	3
TCH:	59.4
RNP Value:	0.30
Δ ISA:	-30
Straight In Segment	
(*Wingspan =<262*) LTP to Origin:	**3,755.96'**
(*Wingspan =<136*) LTP to Origin:	**3,538.99'**
OCS Slope Ratio:	**21.70 : 1**
RF Turn Segment | Bank angle:	**19.46°**
(*Wingspan =<262*) LTP to Origin:	**4,160.43'**
(*Wingspan =<136*) LTP to Origin:	**3,705.06'**
OCS Slope Ratio:	**21.70 : 1**

Version 2.0

VEB Temperature limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	2500	
LTP Elevation:	9.5	
ACT:	-16.00°C	
Min Glidepath Angle	**2.75°**	
NA Below	**-15.23°C**	**4.59°F**
NA Above	**49.31°C**	**120.77°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	589.70
TCH (ft)	59.40
OCS Slope	21.70
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,755.96
Obstacle Distance (ft) *(measured along-track from LTP)*	38,117.30
VEB ROC *(at obstacle)*	**480**
Glidepath MSL altitude at Obstacle	2,681.56
OCS MSL altitude at Obstacle	2,201.46

KBNA
RNAV (RNP) Z RWY 2R
WIPEN TO PFAF
(OBS # 7 W/250' A/C APPLIED)

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	1900
LTP Elevation:	589.7
Glidepath Angle:	3
TCH:	59.4
RNP Value:	0.30
Δ ISA:	-30
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	**3,755.96'**
(*Wingspan =<136*) **LTP to Origin:**	**3,538.99'**
OCS Slope Ratio:	**21.70 : 1**
RF Turn Segment | Bank angle:	**19.46°**
(*Wingspan =<262*) **LTP to Origin:**	**4,160.43'**
(*Wingspan =<136*) **LTP to Origin:**	**3,705.06'**
OCS Slope Ratio:	**21.70 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	2500	
LTP Elevation:	9.5	
ACT:	-16.00°C	
Min Glidepath Angle	**2.75°**	
NA Below	**-15.23°C**	**4.59°F**
NA Above	**49.31°C**	**120.77°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	589.70
TCH (ft)	59.40
OCS Slope	21.70
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,755.96
Obstacle Distance (ft) *(measured along-track from LTP)*	30,400.64
VEB ROC *(at obstacle)*	**430**
Glidepath MSL altitude at Obstacle	2,264.48
OCS MSL altitude at Obstacle	1,834.58

KBNA
RNAV (RNP) Z RWY 2R
TETCU TO PFAF
(OBS # 7 W/250' A/C APPLIED)

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	1900
LTP Elevation:	589.7
Glidepath Angle:	3
TCH:	59.4
RNP Value:	0.30
Δ ISA:	-30
Straight In Segment	
(*Wingspan =<262*) LTP to Origin:	**3,755.96'**
(*Wingspan =<136*) LTP to Origin:	**3,538.99'**
OCS Slope Ratio:	**21.70 : 1**
RF Turn Segment | Bank angle:	**19.46°**
(*Wingspan =<262*) LTP to Origin:	**4,160.43'**
(*Wingspan =<136*) LTP to Origin:	**3,705.06'**
OCS Slope Ratio:	**21.70 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	2500	
LTP Elevation:	9.5	
ACT:	-16.00°C	
Min Glidepath Angle	**2.75°**	
NA Below	**-15.23°C**	**4.59°F**
NA Above	**49.31°C**	**120.77°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	589.70
TCH (ft)	59.40
OCS Slope	21.70
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,755.96
Obstacle Distance (ft) *(measured along-track from LTP)*	34,061.30
VEB ROC *(at obstacle)*	**454**
Glidepath MSL altitude at Obstacle	2,461.98
OCS MSL altitude at Obstacle	2,008.27