Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/18/2008	Task #: 2008061811271501002	Request #: 20080618112715
Procedure: RNAV (GPS) RWY 14 ORIG		Airport ID: KASH	Airport: BOIRE FLD		Reimbursable #:
City: NASHUA	ST: NH	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID: ASH	Fac. Type: LPV Proc / S	Specialist: HOWARD HAWKINS			

Procedure Review

LPV

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/18/2012	08/17/2012	CASIMIR TABAKA	
QA:	08/17/2012	08/17/2012	CASIMIR TABAKA	
Liaison:	08/17/2012		K. Spurlin	P1

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

Pkg 2 of 4

NASHUA, NH BOIRE FIELD (KASH) RNAV GPS RWY 14, ORIG ENORUTE: YES FC BY: 9/18/12 PUB: 11/15/12

FORMS:8260-3, 8260-9, 8260-10, 8260-2; CON VORTAC REV 14, LODTI ORIG, MUGGY REV 5, NORIY ORIG, ONTAE ORIG, PELAN REV 8, TUMAE ORIG.

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

WAAS CH 97730 W14A	APP CRS 139°	Rwy ldg 5501 THRE 200 Apt Elev 200

RNAV (GPS) RWY 14

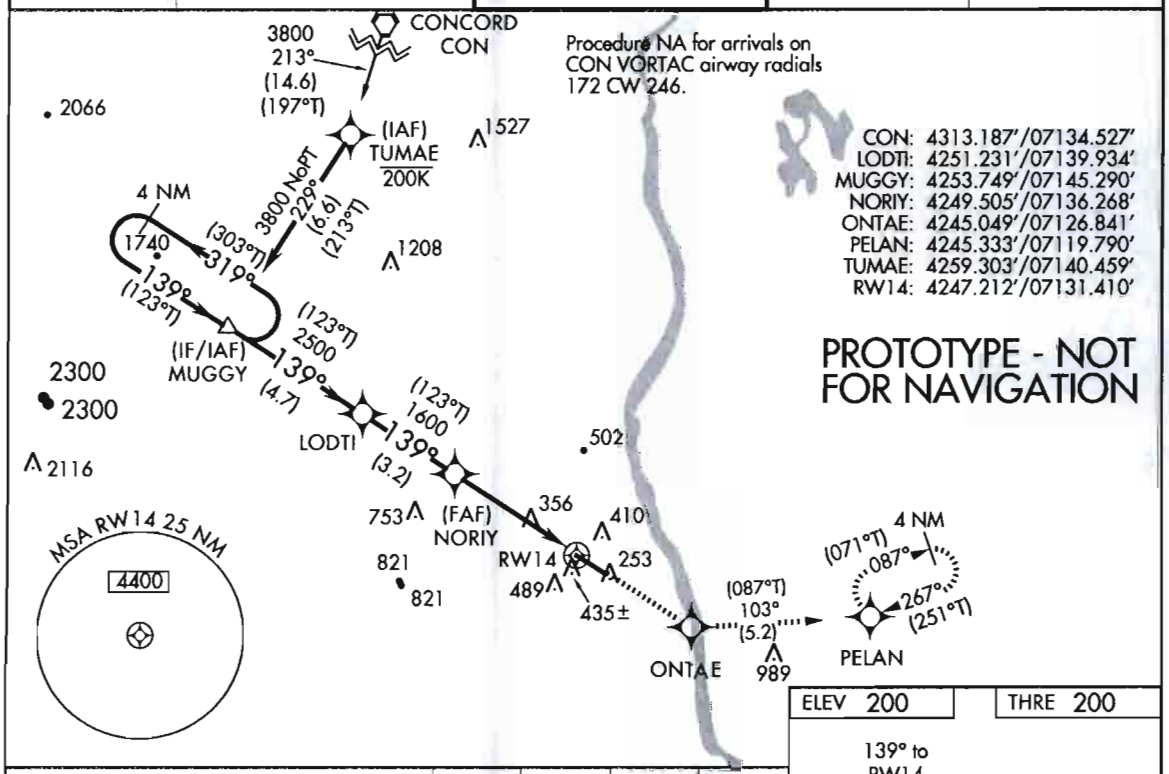
NASHUA/ BOIRE FIELD (ASH)

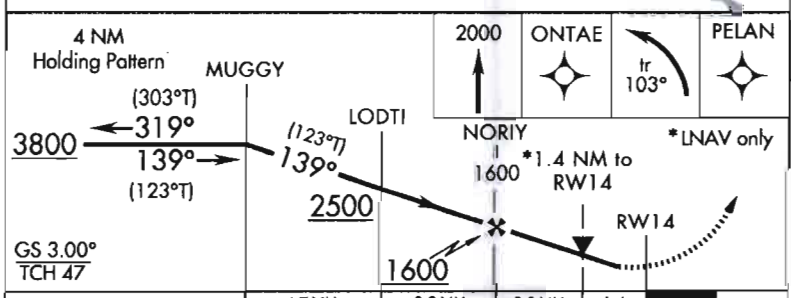
Inoperative table does not apply to LPV. VDP and Baro-VNAV NA when using Manchester altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). When local altimeter setting not received, use Manchester altimeter setting and increase all MDAs 40 feet, increase LNAV/VNAV visibility all Cats ⅛ mile. For inoperative MALSR, increase LNAV Cats A/B visibility to 1, C/D to 1⅜, and Circling Cats C/D to 2¼. When using Manchester altimeter setting, increase LPV all Cats visibility to ⅞, and LNAV Cats A/B to 1. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

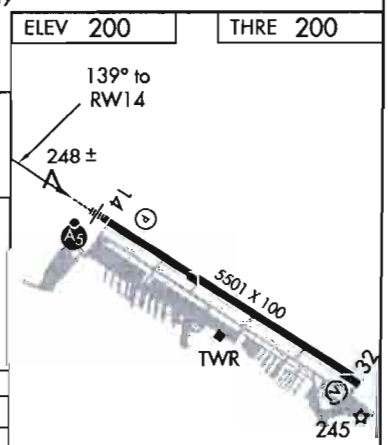
MALSR

MISSED APPROACH: Climb to 2000 direct ONTAE then left turn on track 103° to PELAN and hold.

ATIS	BOSTON APP CON	NASHUA TOWER *	GND CON	CLNC DEL
125.1	124.9 269.075	133.2 (CTAF) L	121.8	121.8

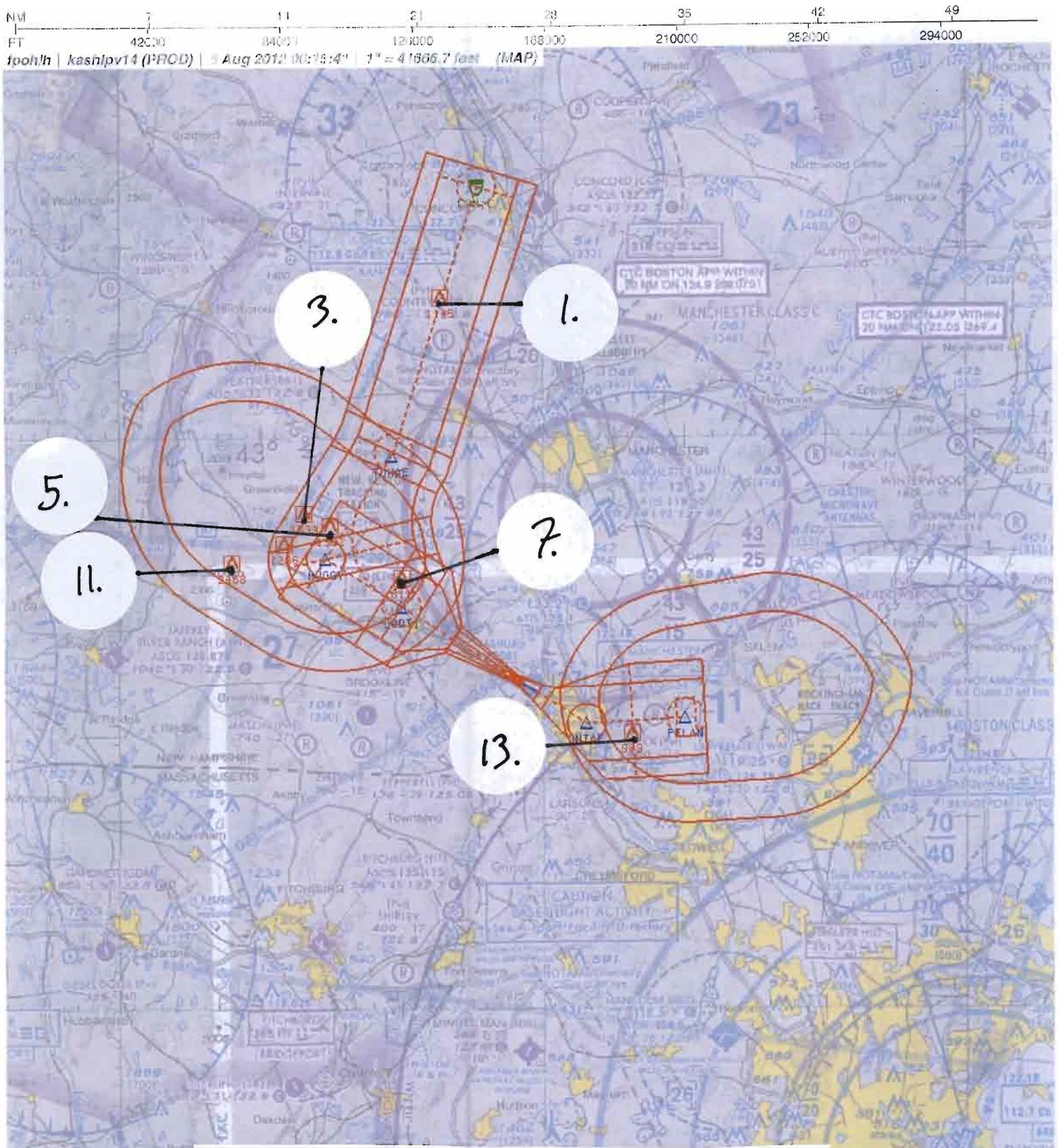




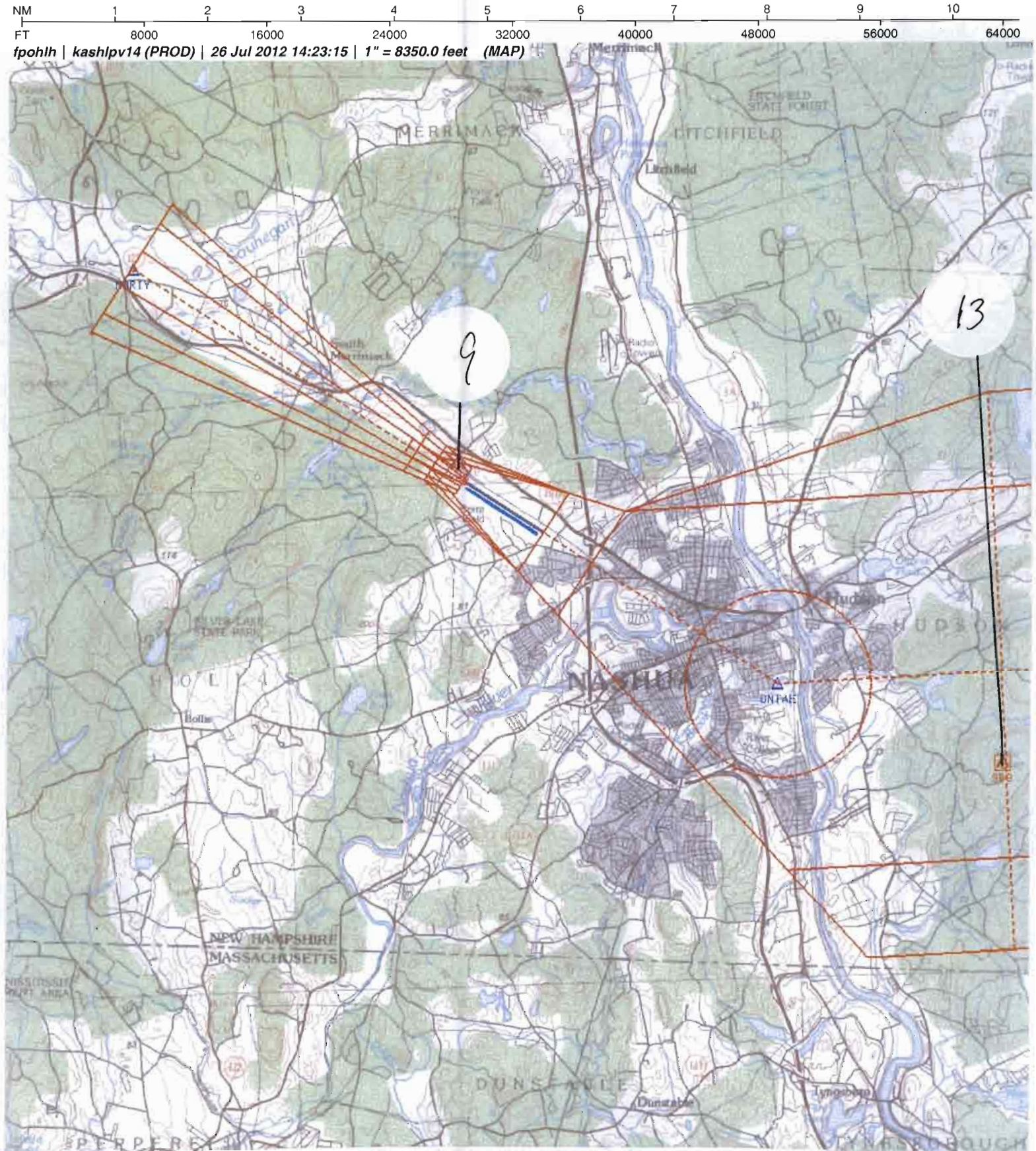


CATEGORY	A	B	C	D
LPV DA	450-¾ 250 (300-¾)			
LNAV/VNAV DA	596-⅞ 396 (400-⅞)			
LNAV MDA	700-¾ 500 (500-¾)		700-1 500 (500-1)	
CIRCLING	820-1 620 (700-1)		840-1¾ 640 (700-1¾)	840-2 640 (700-2)

HIRL Rwy 14-32 L
REIL Rwy 32 L



Airport ID:	KASH				
Apt Name:	BOIRE FLD				
City:	NASHUA	1.	FEEDER	AAO	1159
State:	NH	3.	INITIAL	AAO	1539
Proc ID:	RNAV (GPS) RWY 14	5.	INTERMEDIATE	AAO	1381
		7.	INTERMEDIATE STEPDOWN	AAO	860
Amdt # :	ORIG	11.	HILPT	AAO	2468
Scale:	1:500,000	13.	MA LVL SFC	TOWER	989

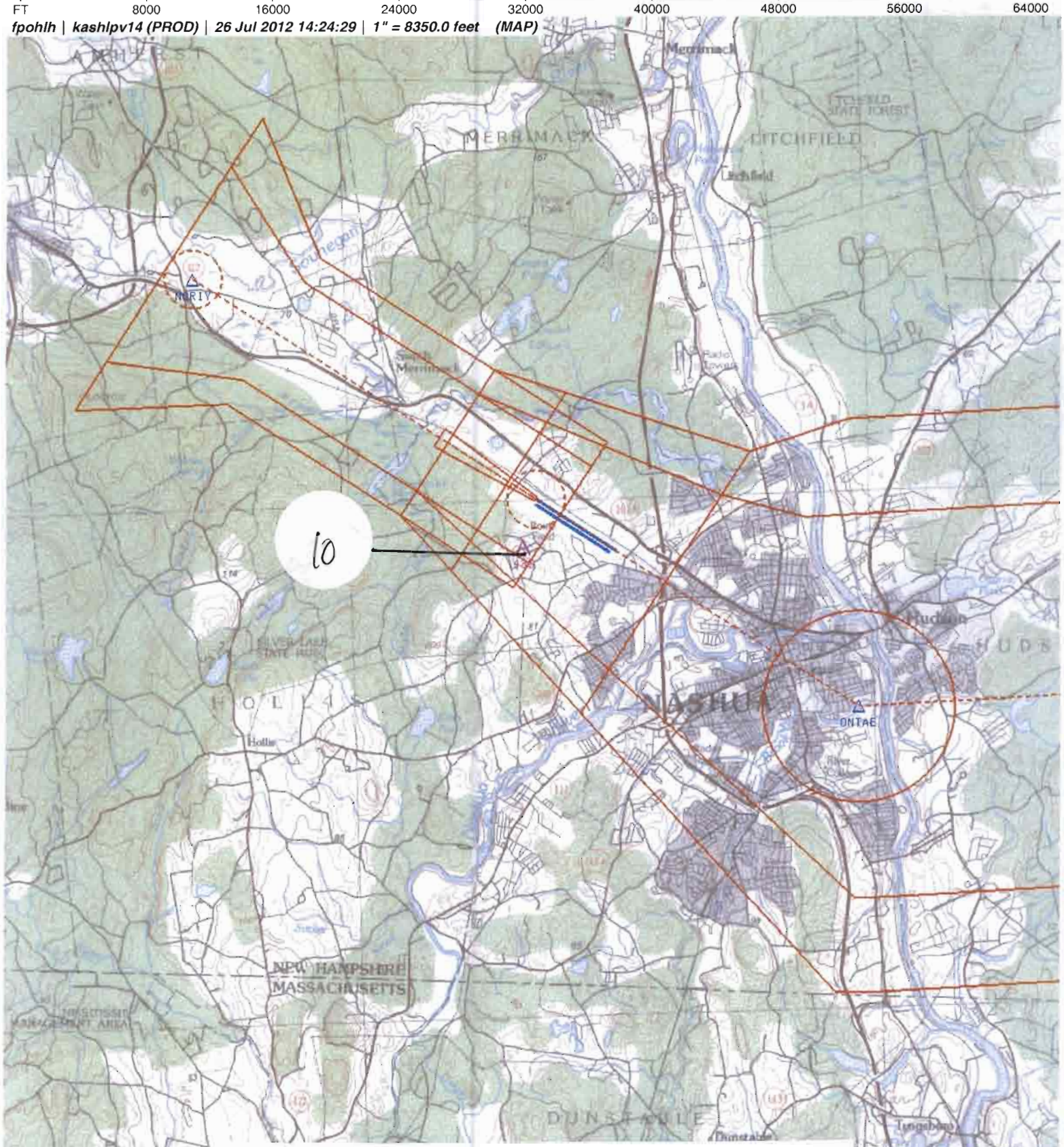


Airport ID:	KASH				
Apt Name:	BOIRE FLD				
City:	NASHUA	9.	LPV FINAL	TREE	265
State:	NH	13.	MA LVL SFC	TOWER	989
Proc ID:	RNAV (GPS) RWY 14				
Amdt # :	ORIG				
Scale:	1:100,000				

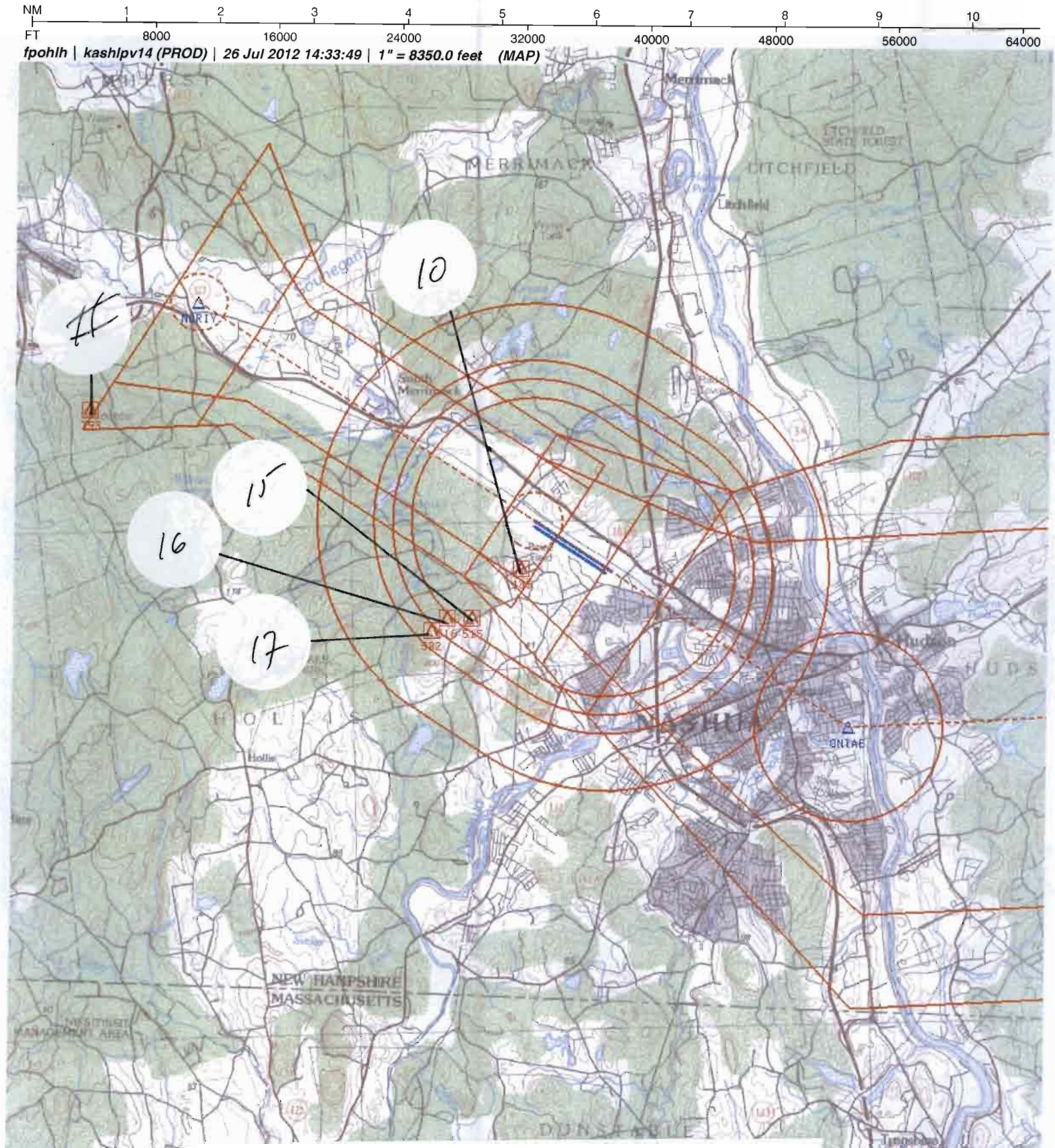
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpohlh | kashlpv14 (PROD) | 26 Jul 2012 14:24:29 | 1" = 8350.0 feet (MAP)



Airport ID:	KASH				
Apt Name:	BOIRE FLD				
City:	NASHUA	10.	LNAV/VNAV FINAL	TREE	435
State:	NH				
Proc ID:	RNAV (GPS) RWY 14				
Amdt # :	ORIG				
Scale:	1:100,000				



Airport ID:	KASH				
Apt Name:	BOIRE FLD				
City:	NASHUA	10.	LNAV FINAL	TOWER	435
State:	NH	15.	CIRC CAT A	TREE	515
Proc ID:	RNAV (GPS) RWY 14	16.	CIRC CAT B	TREE	516
Amdt # :	ORIG	17.	CIRCLING CAT C & D	TREE	532
Scale:	1:100,000	#	7:1 OBS	TOWER	753

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - 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
CON VORTAC	TUMAE (FB)	213.42 / 14.55	3800
TUMAE (IAF)	MUGGY (NOPT) (FB)	228.61 / 6.59	3800
MUGGY (IF/IAF)	LODTI (FB)	138.55 / 4.67	2500
LODTI	NORIY (FB)	138.59 / 3.20	1600
NORIY (FAF)	RW14 (MAP) (FO)	138.64 / 4.25	
RW14 (MAP)	450 MSL	138.64	
450 MSL	ONTAE (FB)		
ONTAE	PELAN (FO)	102.83 / 5.20	2000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW14

CLIMB TO 2000 DIRECT ONTAE AND ON TRACK 102.83 TO PELAN AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW MUGGY, LT, 138.55 INBOUND, 3800 FT. IN LIEU OF PT (IAF)
3. FAC: 138.64 FAF: NORIY DIST FAF TO MAP: 4.25 THLD: 4.25
4. MIN. ALT: MUGGY 3800, LODTI 2500, NORIY 1600
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1600 GS ALT AT: NORIY 1600 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 47.0 34:1 IS NOT CLEAR
8. MSA FROM: RW14 4400

ADDITIONAL FLIGHT DATA:
HOLD E, RT, 266.83 INBOUND.
CHART FAS OBST: 435 TREE 424637N/0713135W
CHART 753 TOWER 424816N/0713749W.
DISTANCE TO THLD FROM 250 HATH: 0.64 NM.
CHART VDP AT 1.43 MILES TO RW14*
*LNAV ONLY.
WAAS CHANNEL # 97730
REFERENCE PATH ID: W14A
LTP HAE: 33.5 M

MAG VAR: 16W EPOCH YEAR: 1995

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
LPV DA	450	3/4	250	450	3/4	250	450	3/4	250	450	3/4	250			
LNAV/VNAV DA	596	7/8	396	596	7/8	396	596	7/8	396	596	7/8	396			
LNAV MDA	700	3/4	500	700	3/4	500	700	1	500	700	1	500			
CIRCLING	820	1	620	820	1	620	840	1 3/4	640	840	2	640			

NOTES:
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV.
CHART NOTE: VDP AND BARO-VNAV NA WHEN USING MANCHESTER ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANCHESTER ALTIMETER SETTING AND (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	AMDT: NONE
				DATED

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **BOS APP CON, ASH ATCT**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **HOWARD L. HAWKINS, JR.**	FIFO **AJV-352**	DATE: **07/26/2012**
APPROVED BY		
NAME: **DARRYEL ADAMS** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

REASONS:

EFFECTIVE CONCURRENT WITH: KASH ILS OR LOC RWY 14 ORIG

QUALITY CHECKED

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NOTES, (CONT.):
INCREASE ALL DA 32 FEET AND ALL MDA 40 FEET, INCREASE LNAV/VNAV VISIBILITY ALL CATS 1/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT A/B VISIBILITY TO 1 MILE, CAT C/D TO 1 3/8 MILE, AND CIRCLING CAT C/D TO 2 1/4 MILE. WHEN USING MANCHESTER ALIMETER SETTING, INCRESAE LPV ALL CATS VISIBILITY TO 7/8 MILE, AND LNAV CAT A/B TO 1 MILE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE AT TUMAE : MAX 210 KIAS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CON VORTAC AIRWAY RADIALS 172 CW 246.
CHART NOTE: PROCEDURE NA AT NIGHT.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	AMDT: NONE
				DATED:

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:	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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KASH
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	424712.6980N
LTP/FTP LONGITUDE	0713124.5985W
LTP/FTP ELLIPSOIDAL HEIGHT	+00335
FPAP LATITUDE	424624.5500N
FPAP LONGITUDE	0712942.7800W
THRESHOLD CROSSING HEIGHT (TCH)	00047.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	9FF6E20F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00611
FPAP ORTHOMETRIC HEIGHT	+00611

QUALITY CHECKED

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	AMDT: NONE
				DATED:

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:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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```
ARINC PACKET - 424-18 - RNAV (GPS)

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CON   K6011290VTLA N43131123W071343163    N43131123W071343163W0150007151     NARCONCORD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   LODTI K60    C     N42511387W071395605                      W0149     NAR           LODTI
        SUSAEAENRT   MUGGY K60    C   L N42534491W071451741                      W0148     NAR           MUGGY
        SUSAEAENRT   NORIY K60    C     N42493028W071361606                      W0149     NAR           NORIY
        SUSAEAENRT   ONTAE K60    W     N42450295W071265045                      W0149     NAR           ONTAE
        SUSAEAENRT   PELAN K60    C     N42452000W071194741                      W0150     NAR           PELAN
        SUSAEAENRT   TUMAE K60    W     N42591818W071402755                      W0149     NAR           TUMAE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASHK6AASH     0     060YHN42465670W071305070W016000200         1800018000C    MNAR    BOIRE FIELD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASHK6FR14   ACON   010CON  K6D 0V       IF                                          18000                A JS
        SUSAP KASHK6FR14   ACON   020TUMAEK6EA0E  A 020TF                    21340146    + 03800          210             A-JS
        SUSAP KASHK6FR14   ACON   030MUGGYK6EA0EE B 010TF                    22860066    + 03800                          A JS
        SUSAP KASHK6FR14   AMUGGY 010MUGGYK6EA0EE AL   HF                    13860040    + 03800     18000                A JS
        SUSAP KASHK6FR14   R      010MUGGYK6EA0E  I    IF                               + 03800     18000                A JS
        SUSAP KASHK6FR14   R      011LODTIK6EA0E S  051TF                    13860047    + 02500                          A JS
        SUSAP KASHK6FR14   R      020NORIYK6EA1E  F 051TF                    13860032    + 01600                 RW14  K6PGA JS
        SUSAP KASHK6FR14   R      020NORIYK6EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KASHK6FR14   R      030RW14 K6PG0GY M 031TF                    13860043      00247            -300          A JS
        SUSAP KASHK6FR14   R      040         0  M     CA                    1386        + 00450                          A JS
        SUSAP KASHK6FR14   R      050ONTAEK6EA0E       DF                                                                  A JS
        SUSAP KASHK6FR14   R      060PELANK6EA0EY   010TF                    1028        + 02000                          A JS
        SUSAP KASHK6FR14   R      070PELANK6EA0EE  R   HM                    26680040    + 02000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASHK6GRW14    0060001387 N42471270W071312460-0100    +0033500200000047100I

                 1         2         3         4         5         6         7         8         9         0         1         2
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: **BOIRE FIELD**	**RNAV**	**RNAV (GPS) RWY 14, ORIG**	AMDT: **NONE**
				DATED:

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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```
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KASHK6PR14   RW14 001 0000W14A0N4247126980W07131245985+003350300N4246245500W07129427800106750920000470F4005009FF6E20F
        SUSAP KASHK6PR14   RW14 002E      +00611+00611LPV       97730
                  1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KASHK6SRW14 K6PG                0   18018004425                                                                  M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	AMDT: NONE
				DATED:

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CON	CON	010		IF		FB					
	CON	TUMAE	020	IAF	TF		FB	2.0	213.4(197.4T)	014.6	AA 03800	AB 210
	CON	MUGGY	030		TF		FB	1.0	228.6(212.6T)	006.6	AA 03800	
	MUGGY	MUGGY	010	IAF	HF	L	FO		138.6(122.6T)	004.0	AA 03800	
		MUGGY	010	FACF	IF		FB				AA 03800	
		LODTI	011	SDF	TF		FB	0.5	138.6(122.6T)	004.7	AA 02500	
		NORIY	020	FAF	TF		FB	0.5	138.6(122.6T)	003.2	AA 01600	
		RW14	030	MAP	TF		FO	0.3	138.6(122.6T)	004.3	AT 00247	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		138.6(122.6T)		AA 00450	
	ONTAE	050		DF		FB					
	PELAN	060		TF		FO	1.0	102.8(086.8T)		AA 02000	
	PELAN	070		HM	R	FO		266.8(250.8T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CON	N431311.23	W0713431.63	N4313.187	W07134.527
	LODTI	N425113.87	W0713956.05	N4251.231	W07139.934
	MUGGY	N425344.91	W0714517.41	N4253.749	W07145.290
	NORIY	N424930.28	W0713616.06	N4249.505	W07136.268
	ONTAE	N424502.95	W0712650.45	N4245.049	W07126.841
	PELAN	N424520.00	W0711947.41	N4245.333	W07119.790
	TUMAE	N425918.18	W0714027.55	N4259.303	W07140.459
	RW14	N424712.70	W0713124.60	N4247.212	W07131.410

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00200	47

QUALITY CHECKED

CITY AND STATE	ELEVATION: 200 THRE: 200	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NASHUA, NH	AIRPORT NAME: BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	AMDT: NONE
				DATED:

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:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	CON VORTAC	TUMAE	1. AAO	430657.00N/0713706.00W	1145 (4E)	2000	DG655	3800
			2. TERRAIN	430657.00N/0713706.00W	945 (900)		AS1500	2400
INITIAL	TUMAE	MUGGY	3. AOO	425542.00N/0714648.00W	1539 (4E)	1000	DG1261	3800
			4. TERRAIN	425542.00N/0714648.00W	1339 (1300)		AS1500	2800
INTERMEDIATE	MUGGY (IF/IAF)	LODTI	5. AAO	425503.00N/0714452.00W	1381 (4E)	500	AC98 DG521	2500
			6. TERRAIN	425415.00N/0714448.00W	932 (900)		AS1500	2400
INTERMEDIATE:	LODTI	NORIY	7. AAO	425339.00N/0713906.00W	860 (4E)	500	AC98	1500
STEPDOWN			8. TERRAIN	425106.00N/0713912.00W	591 (600)		AS1000	1600
FINAL: LPV	NORIY	RW14	9. TREE (KASHT000093)	424721.42N/0713130.65W	265 (1A)	34:1		450/250
FINAL: LNAV/VNAV	NORIY	RW14	10. TREE	424637.32N/0713134.79W	435 (1A)	34:1		596/396
FINAL: LNAV	NORIY	RW14	10. TREE	424637.32N/0713134.79W	435 (1A)	250		700
2. HOLD-IN-LIEU-OF-PT	MUGGY	P-5	11. AAO	425309.00N/0715157.00W	2468 (4E)	1000		3500
			12. TERRAIN	425309.00N/0715157.00W	2268 (2300)		AS1500	3800
3. MISSED APPROACH — MAP:	DA / DA / RW14	PELAN				ASC		2000
			13. TOWER (33-000085)	424407.00N/0712334.00W	989 (5D)	1000		2000
ELEV:	263/435/600		14. TERRAIN	424448.00N/0712133.00W	568 (600)		AS1000	1600
			15. TREE	424605.82N/0713216.74W	515 (1B)	300		820
			16. TREE	424605.56N/0713238.55W	516 (1B)	300		820
			17. TREE	424557.32N/0713252.11W	532 (1B)	300		840
			17. TREE	424557.32N/0713252.11W	532 (1B)	300		840

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	620
CATEGORY B	1.5 NM	450	620
CATEGORY C	1.7 NM	450	640
CATEGORY D	2.3 NM	550	640
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW14

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	296/ 26.2	3369 (6C)	4400					

CITY AND STATE	ELEVATION: 200 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
NASHUA, NH	BOIRE FIELD	RNAV	RNAV (GPS) RWY 14, ORIG	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
BOS APP CON ASH TOWER	NWS	OTHER: ASOS	SOURCE: KASH / KMHT
	FAA		DISTANCE: 0 / 9.66
SATISFACTORY ON:	A/C		HOURS REMOTE OPERATION: 24 / 24
X VHF X UHF HF	LOCATION: KASH / KMHT		ADJUSTMENT: 0 / 31.7

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 14 (PCL)
		HIRL
		MIRL
	X	REIL 32
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4R 14 PAPI-4L 32
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 14
	INSTRUMENT	NPI-G 32
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 200.4
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 47.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: HOWARD L. HAWKINS, JR.	DATE: 07/26/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

ISA DEVIATION USED: -30C (-22F) NO HISTORICAL WEATHER AVAILABLE

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KASH 199.1, HMHT 266.0
RA = 32.
SEE ATTACHED AIRSPACE LETTER.

VISUAL PORTION OF FINAL PENETRATIONS:

251 TREE KASHT000104 424725.15N-0713138.51W (10.81)
262 TREE KASHT000112 424728.78N-0713143.69W (06.41)

TAA NA: ATC REQUEST.

LPV SLOPE: 34:1.
LANV/VNAV SPOLE: 23.44:1.

TERPS 289 APPLIED TO 753 TOWER 424816N / 0713749W.

HOLDING AT PELAN REQUESTED BY ATC.

BARO-VNAV ABOVE TEMPATURE DERIVED USING AFS-400 CACULATOR.

OBS:
10. KASHT000519
15. KASHT000873
16. KASHT000951
17. HASHT001033

QUALITY 4 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: CONCORD VORTAC **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 431311.23N/0713431.63W **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	CONCORD	CON	VORTAC	L							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	NW	CON	VORTAC	329.75	149.75	R	1		4000	10000	4	9
2	NW	CON	VORTAC	298.54	118.54	R	1		3500	14000	4	10
3	NW		WP	330.75	150.75	R		5	5000	10000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	431903.00N/0714236.00W	1080	4E
2	200	AAO	431333.00N/0714803.00W	1257	4E
2	310	AAO	432253.00N/0715127.20W	3140	6A
3	200	AAO	431427.00N/0714724.00W	1132	4E
3	310	AAO	432253.00N/0715127.20W	3140	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	VOR-A	KCON	CONCORD	NH (US)
3	RNAV (GPS) RWY 24	KMHT	MANCHESTER	NH (US)

REMARKS:
HOLD PAT 2 310 KNOT AIRSPEED: OBSTACLE IS 11,138.85 FEET INTO THE SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCO			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	WHITE RIVER			KLEB	LEBANON	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
DP	TAKE-OFF MINIMUMS			KDAW	ROCHESTER	NH (US)
EN ROUTE	V141		1			(US)
EN ROUTE	V322					(US)
EN ROUTE	V39					(US)
EN ROUTE	V93					(US)
IAP	ILS OR LOC RWY 11			KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT II)			KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT III)			KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (SA CAT I)			KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 7			KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 25			KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7			KSFM	SANFORD	ME (US)
IAP	GPS RWY 29			KCNH	CLAREMONT	NH (US)
IAP	NDB-A			KCNH	CLAREMONT	NH (US)
IAP	ILS OR LOC RWY 35			KCON	CONCORD	NH (US)
IAP	RNAV (GPS) RWY 12			KCON	CONCORD	NH (US)
IAP	RNAV (GPS) RWY 17			KCON	CONCORD	NH (US)
IAP	RNAV (GPS) RWY 35			KCON	CONCORD	NH (US)
IAP	VOR-A		2	KCON	CONCORD	NH (US)
IAP	RNAV (GPS) - C			KAFN	JAFFREY	NH (US)
IAP	ILS OR LOC RWY 8			KLCI	LACONIA	NH (US)
IAP	NDB RWY 8			KLCI	LACONIA	NH (US)
IAP	RNAV (GPS) RWY 26			KLCI	LACONIA	NH (US)
IAP	RNAV (GPS) RWY 25			KLEB	LEBANON	NH (US)
IAP	RNAV (GPS) RWY 36			KLEB	LEBANON	NH (US)
IAP	RNAV (GPS) RWY 7			KLEB	LEBANON	NH (US)
IAP	ILS OR LOC RWY 35			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 6			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC/DME RWY 17			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT II)			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT III)			KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) RWY 24		3	KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) RWY 6			KMHT	MANCHESTER	NH (US)

QUALITY CHECKED

IAP	RNAV (GPS) Y RWY 17		KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) Z RWY 17		KMHT	MANCHESTER	NH (US)
IAP	VOR RWY 35		KMHT	MANCHESTER	NH (US)
IAP	VOR/DME RWY 17		KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) RWY 14		KASH	NASHUA	NH (US)
IAP	ILS OR LOC RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	NDB RWY 33		KDAW	ROCHESTER	NH (US)
IAP	VOR/DME-A	2	KDAW	ROCHESTER	NH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. UPDATED FAC 1 FROM HISTORY TO ACTIVE NAVAID.

DEVELOPED BY: **DATE:** 08/11/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 04/03/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, PWM APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LODTI **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 425113.87N/0713956.05W **TYPE:** WP, INT

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

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	NASHUA	I-ASH	LOC		318.69	302.69		8.54		2400	4600
2	CONCORD	CON	VORTAC	L	205.27	190.27		22.31		2400	17500
3	GARDNER	GDM	VOR/DME	L	057.11	043.11		25.36		2400	17500

REMARKS:
NASHUA (FAC 1) AND CONCORD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2, 3		KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, ASH ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MUGGY **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 425344.91N/0714517.41W **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	MANCHESTER	MHT	VOR/DME	L	290.63	275.63	17.08	17.08		3000	17500
2	NASHUA	I-ASH	LOC		318.69	302.69		13.21		3000	4600
3	CONCORD	CON	VORTAC	L	217.16	202.16		20.97		3000	17500

FIX RESTRICTIONS:
MCA V490 4000 WESTBOUND

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	NW		WP	318.55	138.55	L		4	3500	6000	5	6
2	NW	I-ASH	LOC	318.69	138.69	L	1		3500	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	425309.00N/0715157.00W	2468	4E
2	200	AAO	425309.00N/0715157.00W	2468	4E
2	310	AAO	425130.10N/0715221.70W	2500	4E

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

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 32	KASH	NASHUA	NH (US)

REMARKS:
CONCORD (FAC 3) AND MANCHESTER (FAC 1) AND NASHUA (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-490	1, 3				(US)
IAP	ILS OR LOC RWY 14	1, 2	2	KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14		1	KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 32		1	KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
LAT/LONGS CHANGED, FIX RELOCATED 366.36FT WEST.
FAC 1 DISTANCE CHANGED TO 17.08 DME.
FAC 2 ADDED.
FAC 3 BEARING/DISTANCE CHANGED FROM 217.00.
PAT 1 & 2 HOLDING PATTERNS ADDED.
FIX USE UPDATED.

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: BOS
ARTCC: ZBW
ATC FACILITY: MHT ATCT, ASH ATCT

QUALITY CHECKED

OTHER: BGR FSS

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NORIY **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 424930.28N/0713616.06W **TYPE:** WP, INT

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

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	NASHUA	I-ASH	LOC		318.69	302.69		5.34	32469	1600	4600
2	CONCORD	CON	VORTAC	L	198.10	183.10		23.71		1600	17500
3	GARDNER	GDM	VOR/DME	L	064.02	050.02		26.14		1600	17500

REMARKS:
NASHUA (FAC 1) AND CONCORD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2, 3		KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, ASH ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ONTAE **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 424502.95N/0712650.45W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: MHT ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PELAN **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 424520.00N/0711947.41W **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	MANCHESTER	I-MHT	LOC/DME		172.53	156.53	12.42	12.41		2000	4600
2	LAWRENCE	LWM	VOR/DME	L	290.07	275.07		10.43		2000	4600
3	MANCHESTER	MHT	VOR/DME	L	180.48	165.48		7.00		2000	4600

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	E		WP	086.83	266.83	R		4	2000	6000	4	6
2	E	LWM	VOR/DME	110.07	290.07	R	1		2000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (33-000085)	424407.00N/0712334.00W	989	5D
2	200	TOWER (33-000085)	424407.00N/0712334.00W	989	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
MANCHESTER (FAC 1) AND LAWRENCE (FAC 2) AND MANCHESTER (FAC 3) USED TO ESTABLISH FIX COORDINATES
FAC 1: DME ANTENNA COORDINATES 425642.12N/0712635.38W
FAC 1 & 2 USED FOR LEAST DIVERGENCE ANGLE
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2, 3		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 14	1, 2, 3	2	KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14		1	KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED WP HOLDING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: BOS
ARTCC: ZBW
ATC FACILITY: BOS/MHT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TUMAE **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 425918.18N/0714027.55W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BALTIMORE** STATE: **NH**

AIRPORT NAME: **NASHUA/BOIRE FIELD** ID: **KASH**

PROCEDURE: **RNAV (GPS) RWY 14** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(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 **3.62**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.92**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **122.64**
4. High Terrain in **FINAL** segment containing 1000' point **407**
5. Distance from **FAF** to 1500' point **7.87**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **8.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **122.55**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **939**
9. Threshold Coordinates (if straight-in) ... **424712.70N** / **0713124.60W**
10. ARP Coordinates ..... **424656.70N** / **0713050.70W**
11. Runway Approach End and distance furthest from ARP ..... RWY **32**
    Distance **0.50** NM
12. FAF Coordinates ..... **424930.28N** / **0713616.06W**

REMARKS: Approach/Drawing attached.