Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/07/2011	Task #: 2010050321421401004	Request #: 20100503214214
Procedure: RNAV (RNP) Z RWY 30 C ORIG		Airport ID: KIWA	Airport: PHOENIX-MESA GATEWAY		Reimbursable #:
City: PHOENIX	ST: AZ	GPS #:		Estimated Chart Date: 04/05/2012	FICO #:
Fac ID:	Fac. Type: RNP		Specialist: JACOB POWERS		

Procedure Review

P3

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/24/2011	10/19/2011	STEVEN SZUKALA	
QA:	10/19/2011	10/19/2011	STEVEN SZUKALA	
Liaison:	10/19/2011		Terrell	

Procedure Comments:

Remark Type: INFORMATION

eff 2.f2

PHOENIX, AZ PHOENIX-MESA GATEWAY (KIWA) RNAV (RNP) Z RWY 30C ORIG (RNP) ENROUTE-NO FC: 2.21.12 PUB: 4.5.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ALIEE, ORIG; GICGE-INT, REV 1; GYANT, ORIG; OTRRR, ORIG; PDXGS, ORIG; TYLIK, ORIG.

CONTACT: ADOLFO URRUTIA/PETE GETZ-AVN-130 LEADS, 405.954.2079/4919:

RNAV (RNP) Z RWY 30C

PHOENIX-MESA GATEWAY (IWA)

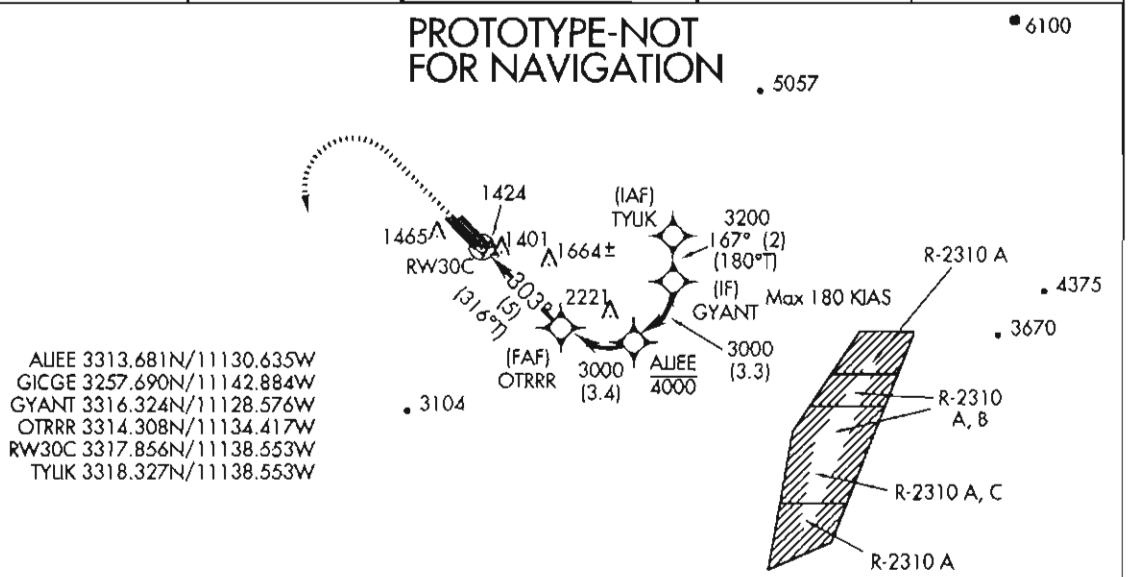
WAAS	APP CRS	Rwy Idg	10201
CH 62911	303°	THRE	1380
W30A		Apt Elev	1382

GPS and RF required. For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 46°C (114°F).

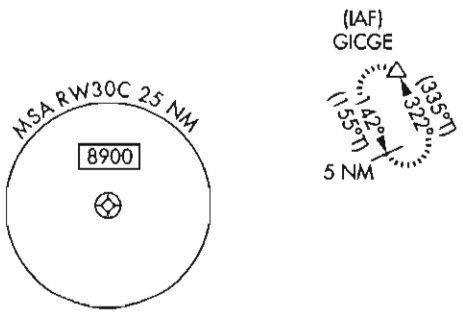
MISSED APPROACH: Climb to 2800 then climbing left turn to 5000 direct GICGE and hold.

ATIS	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4 (WEST) 124.75 379.225 (EAST)	128.25 275.8	135.05

PROTOTYPE-NOT FOR NAVIGATION



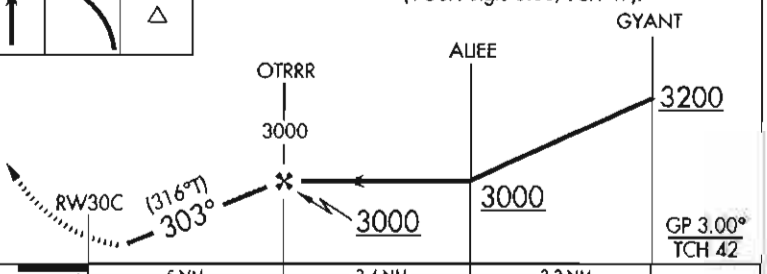
ALIEE 3313.681N/11130.635W
GICGE 3257.690N/11142.884W
GYANT 3316.324N/11128.576W
OTRRR 3314.308N/11134.417W
RW30C 3317.856N/11138.553W
TYUK 3318.327N/11138.553W



ELEV 1382 | THRE 1380

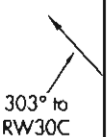
2800	5000	GICGE
↑	↰	△

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 49).

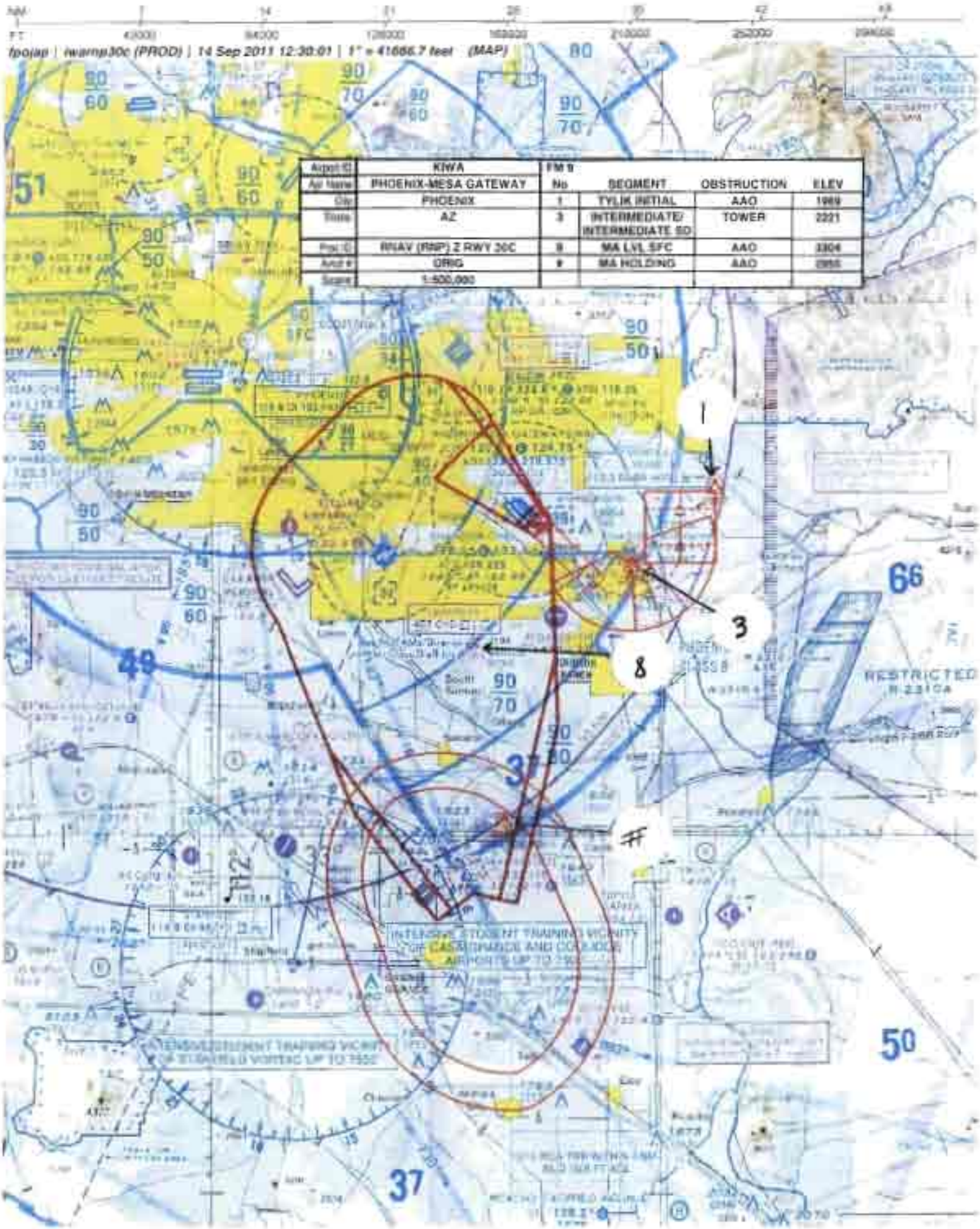


CATEGORY	A	B	C	D
RNP 0.21 DA	1637-¾ 257 (300-¾)			
RNP 0.30 DA	1690-1 310 (400-1)			

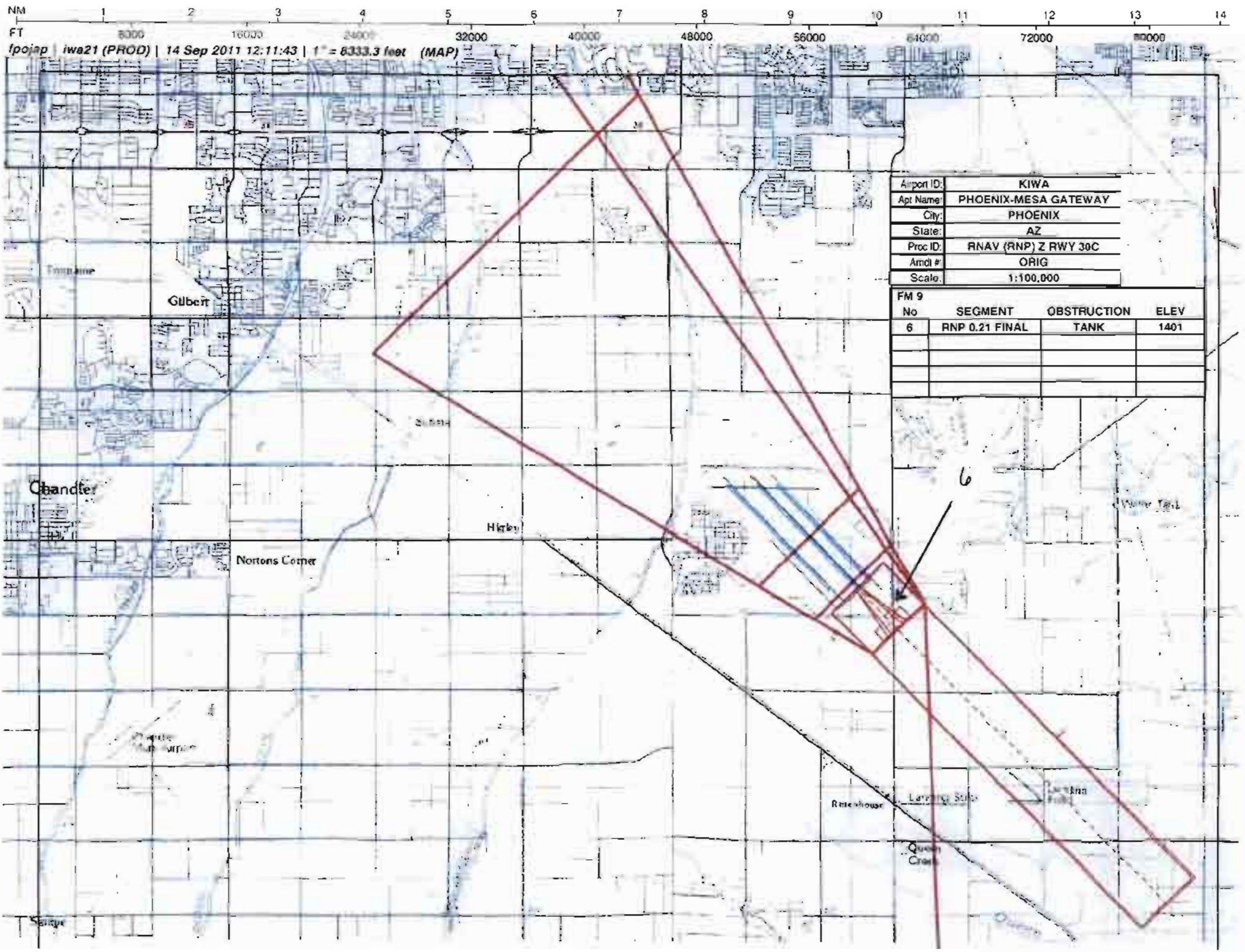
AUTHORIZATION REQUIRED

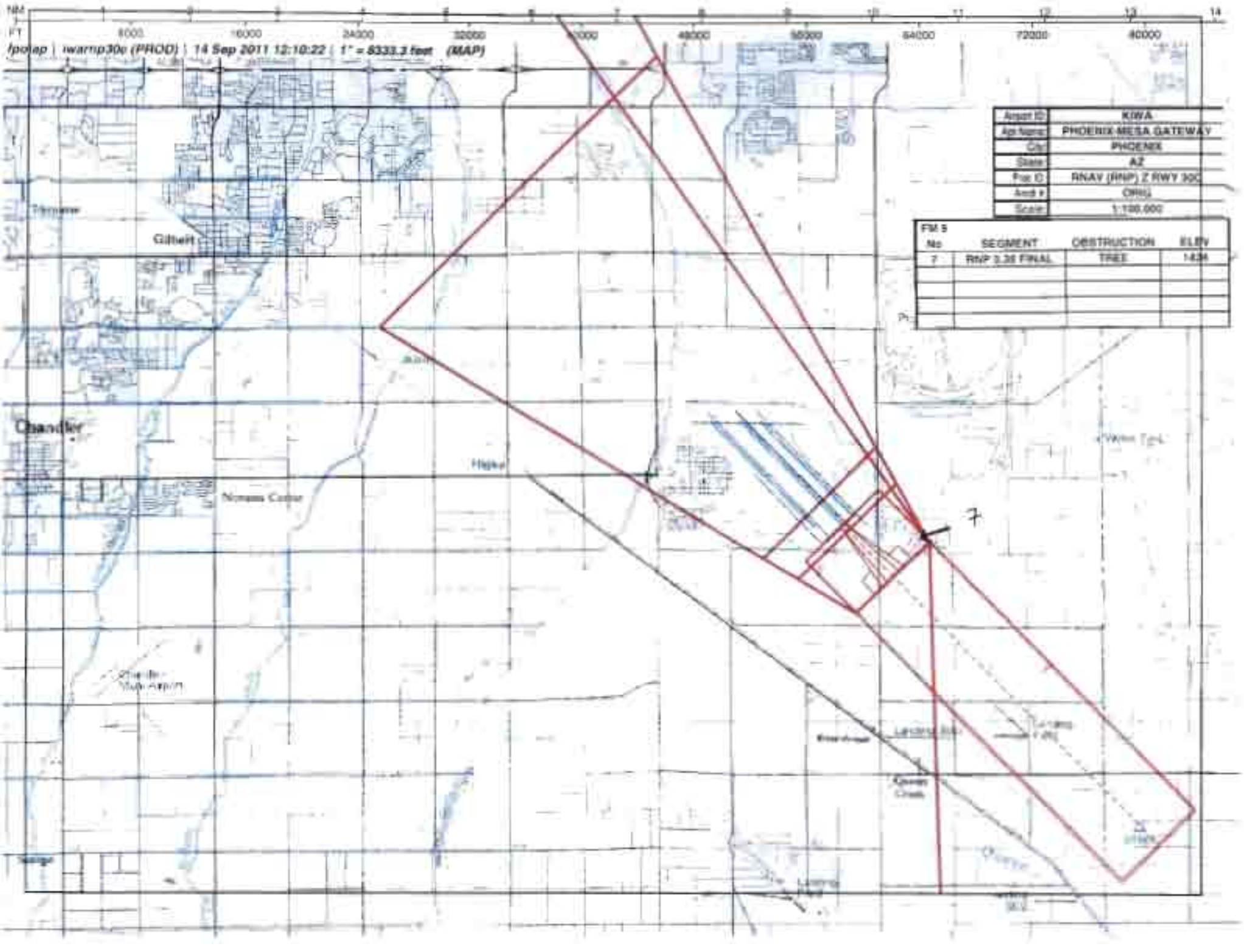


MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R



Airport ID	KIWA	FM 9			
Air Name	PHOENIX-MESA GATEWAY	No	SEGMENT	OBSTRUCTION	ELEV
City	PHOENIX	1	TYLIK INITIAL	AAO	1969
Trans	AZ	3	INTERMEDIATE/ INTERMEDIATE SD	TOWER	2221
Proc ID	RNAV (RNP) Z RWY 30C	8	MA LVL SFC	AAO	3304
Arvt #	ORIG	9	MA HOLDING	AAO	2955
Scale	1:500,000				


NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpojap | iwa21 (PROD) | 14 Sep 2011 12:11:43 | 1" = 6333.3 feet (MAP)
Airport ID: KIWA
Apt Name: PHOENIX-MESA GATEWAY
City: PHOENIX
State: AZ
Proc ID: RNAV (RNP) Z RWY 30C
Amdt #: ORIG
Scale: 1:100,000
FM 9
No SEGMENT OBSTRUCTION ELEV
6 RNP 0.21 FINAL TANK 1401
6
Gilbert
Chandler
Higley
Norton's Corner
Ranchhouse
Queen Creek


NM
FT
8000
16000
24000
32000
40000
48000
56000
64000
72000
80000
/pplap | iwarnp30e (PROD) | 14 Sep 2011 12:10:22 | 1" = 8333.3 feet (MAP)
Airport ID: KIWA
Apt Name: PHOENIX-MESA GATEWAY
City: PHOENIX
State: AZ
Proc ID: RNAV (RNP) Z RWY 30C
Amdt #: ORIG
Scale: 1:100,000
FM 5
No
SEGMENT
OBSTRUCTION
ELEV
7
RNP 3.38 FINAL
TREE
1434
Gilbert
Chandler
Higley
Williams Gateway Airport
7

U.S. 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
TYLIK (IAF)	GYANT (TF)(FB)(RNP 1.00)	166.68/2.00	3200
GYANT (IF)	ALIEE (RF)(FB)(RNP 1.00)	(2.86 NM RADIUS CW PDXGS)/3.34	3000
ALIEE	OTRRR (RF)(FB)(RNP 1.00)	(2.86 NM RADIUS CW PDXGS)/3.44	3000
OTRRR (FAF)	RW30C (MAP)(TF)(FO)	302.62/4.96	
RW30C (MAP)	2800 MSL (CA)	302.62	2800
2800 MSL	GICGE (DF)(FO)		5000

MISSED APPROACH

MAP: DA

CLIMB TO 2800 THEN CLIMBING LEFT TURN TO 5000 DIRECT GICGE AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 322.44 INBOUND.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 1421.4 MSL (DO NOT CHART)
CHART MAXIMUM 4000 AT ALIEE
CHART FAS OBST: 1401 TANK 331731N/1113805W
CHART FAS OBST: 1424 TREE 331737N/1113732W
DISTANCE TO THLD FROM 257 HATh: 0.68 NM
CHART R-2310A/B/C

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. **PROFILE STARTS AT GYANT**
3. FAC: **302.62** FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: **GYANT 3200, ALIEE 3000, OTRRR 3000**
5. DIST TO THLD FROM OM: **4.96** MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: **3000** GS ALT AT: **OTRRR 3000** OM: ____ MM: ____ IM: ____
7. GS ANGLE: **3.00** TCH: **41.5#**
8. MSA FROM: **RW30C 8900**

MAG VAR: **13E** EPOCH YEAR: **1980**

MINIMUMS

TAKEOFF: | | STANDARD | X | 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 0.21 DA	**1637**	**7/8**	**257**	**1637**	**7/8**	**257**	**1637**	**7/8**	**257**	**1637**	**7/8**	**257**			
RNP 0.30 DA	**1690**	**1**	**310**	**1690**	**1**	**310**	**1690**	**1**	**310**	**1690**	**1**	**310**			

NOTES: **CHART NOTE: GPS AND RF REQUIRED. CHART PLANVIEW NOTE AT GYANT: MAX 180 KIAS**
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -2C (29F) OR ABOVE 46C (114F).

QUALITY 5 CHECKED

CITY AND STATE	ELEVATION: 1382 THRE: 1380	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PHOENIX	AIRPORT NAME: **PHOENIX-MESA GATEWAY**	**RNAV**	**RNAV (RNP) Z RWY 30C, ORIG**	AMDT: **NONE**
				DATE

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] **ZAB, PHX APP CON, IWA ATCT, AMGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

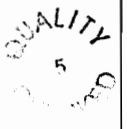
NAME:	FIFO	DATE:
JACOB A. POWERS	**AJV-354**	**09/12/2011**

APPROVED BY

NAME:		FIFO	DATE:
DEZ SILAGYI	MANAGER	**AJV-354**	

CHANGES:
ORIGINAL PROCEDURE.

REASONS:
FPO REQUEST.



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR 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.

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

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALIEE K20    W     N33134084W111303808                      E0107     NAR           ALIEE
        SUSAEAENRT   GICGE K20    C   L N32574137W111425302                      E0107     NAR           GICGE
        SUSAEAENRT   GYANT K20    W     N33161941W111283458                      E0107     NAR           GYANT
        SUSAEAENRT   OTRRR K20    W     N33141845W111342501                      E0107     NAR           OTRRR
        SUSAEAENRT   PDXGS K20    W     N33161850W111315894                      E0107     NAR           CNF(PDXGS)
        SUSAEAENRT   TYLIK K20    W     N33181963W111283538                      E0107     NAR           TYLIK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWAK2AIWA     0     104YHN33182820W111391970E013001382         1800018000C    MNAR    PHOENIX-MESA GATEWAY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWAK2FH30CZ ATYLIK 010TYLIKK2EA0E  A    IF                                                18000                A FS
        SUSAP KIWAK2FH30CZ ATYLIK 020GYANTK2EA0EE B 010TF                     16670020    + 03200          180              A-FS
        SUSAP KIWAK2FH30CZ H      010GYANTK2EA0E  I    IF                                + 03200     18000180    RW30C K2PGA-FS
        SUSAP KIWAK2FH30CZ H      011ALIEEK2EA0E   R010RF       0028601667    23370033    B 0400003000            PDXGS K2EAA FS
        SUSAP KIWAK2FH30CZ H      020OTRRRK2EA1E  FR010RF       0028602337    30260034    + 03000                 PDXGS K2EAA FS
        SUSAP KIWAK2FH30CZ H      020OTRRRK2EA2W                                                A031A212                      FS
        SUSAP KIWAK2FH30CZ H      030RW30CK2PG0GY M 031TF                     30260050      01421             -300          A FS
        SUSAP KIWAK2FH30CZ H      040         0  M     CA                     3026        + 02800                           A FS
        SUSAP KIWAK2FH30CZ H      050GICGEK2EA0EY  L   DF                                + 05000                           A FS
        SUSAP KIWAK2FH30CZ H      060GICGEK2EA0EE  L   HM                     32240050    + 05000                           A FS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWAK2GRW30C   0102013026 N33175134W111383319-0300    +0391001380000041150IIIWA1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWAK2SRW30CK2PG                0   18018008925                                                                    M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1382 THRE: 1380	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PHOENIX, AZ	AIRPORT NAME: PHOENIX-MESA GATEWAY	RNAV	RNAV (RNP) Z RWY 30C, ORIG	AMDT: NONE
				DATED:

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR 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.

ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	TYLIK	TYLIK	010	IAF	IF		FB					
	TYLIK	GYANT	020		TF		FB	1.0	166.7(179.7T)	002.0	AA 03200	AB 180
		GYANT	010	FACF	IF		FB				AA 03200	AB 180
		ALIEE	011		RF	R	FB	1.0		003.3	BT 0400003000	
		OTRRR	020	FAF	RF	R	FB	1.0		003.4	AA 03000	
		RW30C	030	MAP	TF		FO	0.3	302.6(315.6T)	005.0	AT 01421	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		302.6(315.6T)		AA 02800	
	GICGE	050		DF	L	FO				AA 05000	
	GICGE	060		HM	L	FO		322.4(335.4T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALIEE	N331340.84	W1113038.08	N3313.681	W11130.635
	GICGE	N325741.37	W1114253.02	N3257.690	W11142.884
	GYANT	N331619.41	W1112834.58	N3316.324	W11128.576
	OTRRR	N331418.45	W1113425.01	N3314.308	W11134.417
	PDXGS	N331618.50	W1113158.94	N3316.308	W11131.982
	TYLIK	N331819.63	W1112835.38	N3318.327	W11128.590
	RW30C	N331751.34	W1113833.19	N3317.856	W11138.553

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30C	01380	41

CITY AND STATE	ELEVATION: **1382** **THRE: 1380**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PHOENIX, AZ	AIRPORT NAME: **PHOENIX-MESA GATEWAY**	**RNAV**	**RNAV (RNP) Z RWY 30C, ORIG**	AMDT: **NONE**
				DATED:

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.
INITIAL	TYLIK	GYANT	1. AAO	331912.00N/1112612.00W	1969 (4E)	1000	AC98	3100
(RNP 1.00)			2. TERRAIN	331821.00N/1112639.00W	1749 (1700)		AS1500	3200
INTERMEDIATE	GYANT	ALIEE	3. TOWER (04-000500)	331450.19N/1113151.46W	2221 (5D)	500	AC50 AT229	3000
(RNP 1.00)			4. TERRAIN	331557.00N/1112624.00W	1703 (1700)		AS1000	2700
INTERMEDIATE S/D	ALIEE	OTRRR	3. TOWER (04-000500)	331450.19N/1113151.46W	2221 (5D)	500	AC50 AT229	3000
(RNP 1.00)			5. TERRAIN	331339.00N/1113036.00W	1562 (1600)		AS1000	2600
FINAL	OTRRR	RW30C	6. TANK (KIWA0038)	331731.03N/1113804.61W	1401 (1A)	20.2:1	AC3	1637/257
(RNP 0.21)								
FINAL	OTRRR	RW30C	7. TREE	331736.90N/1113732.03W	1424 (2C)	20.2:1	AC20	1690/310
(RNP 0.30)								
MISSED APPROACH	DA	RW30C				ASC		
(RNP 0.21-1.00)								
MISSED APPROACH	DA	RW30C				ASC		
(RNP 0.30-1.00)								
MISSED APPROACH	RW30C	GICGE				ASC		
(RNP 0.21-1.00)								
2. PROCEDURE TURN								
3. MISSED APPROACH MAP:	DA (SEE ABOVE)							
3. MISSED APPROACH ELEV:	1380/1397							

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

QUALITY CHECKED

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG / DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG / DIST	ELEVATION (MSL)	M S A
360-360	AAO	022/28.5	7857 (6C)						PAGE 1 OF 2

CITY AND STATE	AIRPORT & ELEVATION 1382	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PHOENIX, AZ	PHOENIX-MESA GATEWAY	RNAV	RNAV (RNP) Z RWY 30C, ORIG	AWP

FAA Form 8260 - 9 / December 2002 (Computer Generated)

NOTES / EXPLANATIONS FROM OPPOSITE SIDE OF FORM:

SEE ATTACHED AIRSPACE LETTER

SEE ATTACHED VEB SPREADSHEETS.

MISSED APPROACH: 8260.54A PARA 6.2.1, TURN AT AN ALTITUDE FOLLOWED BY A DF LEG

RF TURN RADIUS COMPUTATIONS:

SEGMENT	ALT	KIAS	KTAS	VKTW	TR	BA
GYANT-ALIEE	4694	180	196	53	2.86	17.71
ALIEE-OTRRR	3859	180	193	50	2.86	16.90

STANDARD WINDS USED FOR RF TURN COMPUTATIONS.

25' VEGETATION USED PER WST FPT.

MAX SPEED GYANT TO ALIEE - 180 KIAS

MAX SPEED ALIEE TO OTRRR - 180 KIAS

AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010).

ACT: -2C

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH :	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZAB **PHX APP CON** **IWA ATCT** SATISFACTORY ON: [X] VHF [X] UHF [ ] HF	[ ] NWS [ ] FAA [ ] A/C OTHER: **AWOS**	SOURCE: **KIWA** DISTANCE: **ON FIELD**
	LOCATION: **KIWA**	HOURS REMOTE OPERATION:
	HRS OPTN: **24**	ADJUSTMENT:

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

5. AIRSPACE				
	FLOOR OF CONTROLLED AIRSPACE UNDER FAC			CONTROL AREA
	CONTROL ZONE:	HOURS OPTN		TRANSITION AREA

6. APPROACH & RUNWAY LIGHTING				
	ALS	X	REIL **12L, 30R**	
	(S) SALS		TDZ	
	MALS		C/LINE	
X	HIRL**12L, 12C, 30L, 30C**	X	OTHER (Specify) **PAPI-4L 12L, 12C, 30L, 30C**	
X	MIRL**12R, 30L**			

7. RUNWAY MARKINGS	8. RUNWAY VISUAL RANGE
ALL WEATHER **PIR-G 12L, 12C, 12R, 30L, 30C, 30R**	APPROACH
INSTRUMENT	ROLL OUT

9. GLIDE SLOPE		
	G S ANGLE:	ELEV RWY THRESHOLD: **1380.0**
	DISTANCE FROM RWY:	ELEV GS ANTENNA:
		THRESHOLD CROSSING HEIGHT: **41.5**

10. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	F T. FROM THRESHOLD
	X	ON CENTERLINE	F T. FROM CENTERLINE

11. WAIVERS OF STANDARDS	NUMBER OF WAIVERS ON FILE	DATES OF APPROVAL

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
AWOS IS ON SERVICE A.
VGSI DATA: 3.00/49.4

QUALITY 5 CHECKED

PART D - PREPARED BY:	DATE:
JACOB A. POWERS	**09/12/2011**
TITLE:	OFFICE:
AERONAUTICAL INFORMATION SPECIALIST	**AJV-354**

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	**RW30C**	**GICGE**				**ASC**		
(RNP 0.30-1.00)								
MISSED APPROACH	**DA**	**GICGE**				**ASC**		**5000**
(RNP 0.21-1.00)			**8. AAO**	**331027.65N/1114231.83W**	**3304 (2C)**	**1000**	**AC20**	**4400**
			9. TERRAIN	**331027.65N/1114231.83W**	**3104 (3100)**		**AS1500**	**4600**
2. PROCEDURE TURN								
3. MISSED APPROACH MAP:								
3. MISSED APPROACH ELEV:								

4. CIRCLING	DISTANCE		HT. ABV. ARPT.		
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	
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
									PAGE 2 OF 2

CITY AND STATE	AIRPORT & ELEVATION	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PHOENIX, AZ	**PHOENIX-MESA GATEWAY** **1382**	**RNAV**	**RNAV (RNP) Z RWY 30C, ORIG**	**AWP**

FAA Form 8260 - 9 / December 2002 (Computer Generated)

NOTES / EXPLANATIONS FROM OPPOSITE SIDE OF FORM:

PART B - SUPPLEMENTAL DATA

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

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

5. AIRSPACE				
	FLOOR OF CONTROLLED AIRSPACE UNDER FAC			CONTROL AREA
	CONTROL ZONE:		HOURS OPTN	TRANSITION AREA

6. APPROACH & RUNWAY LIGHTING			
	ALS		REIL
	(S) SALS		TDZ
	MALS		C/LINE
	HIRL		OTHER (Specify)
	MIRL		

7. RUNWAY MARKINGS	8. RUNWAY VISUAL RANGE
ALL WEATHER	APPROACH
INSTRUMENT	ROLL OUT

9. GLIDE SLOPE		
	G S ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GS ANTENNA:
		THRESHOLD CROSSING HEIGHT:

10. FINAL APPROACH COURSE AIMING			
		RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

11. WAIVERS OF STANDARDS	NUMBER OF WAIVERS ON FILE	DATES OF APPROVAL

PART C - REMARKS:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ALIEE **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 331340.84N/1113038.08W **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 30C			KIWA	PHOENIX	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/09/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GICGE **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 325741.37N/1114253.02W **TYPE:** WP, 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	PHOENIX	PXR	VORTAC	H	143.44	155.44	31.03	31.03		5000	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE		WP	142.44	322.44	L		5	5000	17500	6	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	330022.90N/1114019.80W	2955	6C
1	310	AAO	330022.90N/1114019.80W	2955	6C

REASON FOR NONSTANDARD HOLDING:
PAT 1 TERRAIN

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
310K HOLDING EVALUATED FOR MILITARY USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V16	1				(US)
IAP	RNAV (GPS) Y RWY 30C		1	KIWA	PHOENIX	AZ (US)
IAP	RNAV (RNP) Z RWY 30C		1	KIWA	PHOENIX	AZ (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
PXR VORTAC MAA CHANGED FROM 6000 TO 17500, DIST FROM FAC ADDED IN NM.
PAT 1 CRS INBOUND CHANGED FROM 322.58 TO 322.44.

DEVELOPED BY: **DATE:** 09/12/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GYANT **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 331619.41N/1112834.58W **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 30C			KIWA	PHOENIX	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/09/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OTRRR **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 331418.45N/1113425.01W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 30C			KIWA	PHOENIX	AZ (US)
IAP	RNAV (RNP) Z RWY 30C			KIWA	PHOENIX	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/09/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON, IWA ATCT
OTHER:

QUALITY CHECK 5

RADIO FIX AND HOLDING DATA RECORD

NAME: PDXGS **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 331618.50N/1113158.94W **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 30C			KIWA	PHOENIX	AZ (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/12/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TYLIK **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 331819.63N/1112835.38W **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 30C			KIWA	PHOENIX	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/09/2011 **OFFICE:** AJV-354 **NAME:** JACOB POWERS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZAB
ATC FACILITY: PHX TRACON
OTHER:

QUALITY

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **PHOENIX** STATE: **AZ**

AIRPORT NAME: **PHOENIX MESA-GATEWAY** ID: **KIWA**

PROCEDURE: **RNAV (RNP) Z RWY 30C** AMDT: **ORIG**

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 **3.39**
   (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 **315.62**
4. High Terrain in **FINAL** segment containing 1000' point **1464**
5. Distance from **FAF** to 1500' point **6.78**
   (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 **1703**
9. Threshold Coordinates (if straight-in) ... **331751.34N** / **1113833.19W**
10. ARP Coordinates ..... **331828.20N** / **1113919.70W**
11. Runway Approach End and distance furthest from ARP.....RWY **12R**
    Distance **1.05** NM
12. FAF Coordinates ..... **331418.45N** / **1113425.01W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
RF INTERMEDIATE CENTERLINE: 2.86 NM RADIUS CENTERED ON 331618.50N/1113158.94W

DO NOT REMOVE FROM PACKAGE

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:	3000
LTP Elevation:	1379.9
Glidepath Angle:	3
TCH:	41.5
RNP Value:	0.21
Δ ISA:	-14
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	**3,140.62'**
(*Wingspan =<136*) **LTP to Origin:**	**2,938.52'**
OCS Slope Ratio:	**20.21 : 1**
RF Turn Segment | Bank angle:	**17.85°**
(*Wingspan =<262*) **LTP to Origin:**	**3,446.89'**
(*Wingspan =<136*) **LTP to Origin:**	**3,056.62'**
OCS Slope Ratio:	**20.21 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	3000	
LTP Elevation:	1379.9	
ACT:	-2.00°C	
Min Glidepath Angle	**2.94°**	
NA Below	**-2.00°C**	**28.40°F**
NA Above	**46.20°C**	**115.16°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	1,379.90
TCH (ft)	41.50
OCS Slope	20.21
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,446.89
Obstacle Distance (ft) *(measured along-track from LTP)*	45,673.23
VEB ROC *(at obstacle)*	**353**
Glidepath MSL altitude at Obstacle	3,865.02
OCS MSL altitude at Obstacle	3,512.00

GEODESIC CALCULATOR - ROUGH FORM (GEODES)

1: LLNA = 331618.50N-1113158.94W PDXGS
2: LLNB = 331450.19N-1113151.46W 04-000500
3: LLNC =
4: LLND =
5: LLNE =

6: RADA = 175.93T 7: DISA = 8948.63FT 1.47NM
8: RADB = 355.93T 9: DISB = 8948.63FT 1.47NM

GEODESIC CALCULATOR - ROUGH FORM (GEODES)

1: LLNA = 331618.50N-1113158.94W PDXGS
2: LLNB = 331418.45N-1113425.01W PFAF
3: LLNC =
4: LLND =
5: LLNE =

6: RADA = 225.64T 7: DISA = 17352.59FT 2.86NM
8: RADB = 045.62T 9: DISB = 17352.59FT 2.86NM

GEODESIC CALCULATOR - ROUGH FORM (GEODES)

1: LLNA = 331418.45N-1113425.01W PFAF
2: LLNB = 331751.34N-1113833.19W RWT
3: LLNC =
4: LLND =
5: LLNE =

6: RADA = 315.62T 7: DISA = 30118.07FT 4.96NM
8: RADB = 135.58T 9: DISB = 30118.07FT 4.96NM

$225.64° - 175.93° = 49.71°$

$\frac{49.71° \times \pi}{180} = .8676$

$.8676 \times 17352.59 = 15055.16'$

$15055.16 + 30118.07 = 45173.23$

$45173.23 + 500 = 45673.23$
(AC)