US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD INSTRUMENT APPROACH PROCEDURE 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.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
BEIGE	CIRYI (FB)	273.05 / 30.41	3000
SINGR	DEFSA (FB)	352.43 / 18.44	3000
CIRYI (IAF)	BAXKO (NOPT) (FB)	218.95 / 5.00	3000
DEFSA (IAF)	BAXKO (NOPT) (FB)	038.85 / 5.00	3000
BAXKO (IF/IAF)	APADY (FB)	128.90 / 6.10	2700

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW13

CLIMB TO 3000 DIRECT PICRA AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 309.16 INBOUND.
CHART FAS OBST: 1075 TREE 414301N/0924437W
FAS OBST: 1229 AAO 414532N/0924714W
DISTANCE TO THLD FROM 279 HAT: 0.82 NM.
WAAS CHANNEL # 58107
REFERENCE PATH ID: W13A

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW BAXKO, RT, 128.90 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 128.97 FAF: APADY DIST FAF TO MAP: 5.19 THLD: 5.19
4. MIN. ALT: BAXKO 3000, APADY 2700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2700 GS ALT AT: APADY OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 34.0 34:1 IS NOT CLEAR
8. MSA FROM: RW13 2800

MAG VAR: 2E EPOCH YEAR: 2000

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
LPV DA	1284	1	279	1284	1	279	1284	1	279		NA				
LNAV/VNAV DA	1415	1 1/2	410	1415	1 1/2	410	1415	1 1/2	410		NA				
LNAV MDA	1480	1	475	1480	1	475	1480	1 1/4	475		NA				
CIRCLING	1620	1	612	1620	1	612	1620	1 3/4	612		NA				

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING NEWTON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
SEE 8260-10

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 1008 TDZE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
GRINNELL, IA	AIRPORT NAME: GRINNELL REGIONAL	RNAV	RNAV (GPS) RWY 13, AMDT 1 JUN 5 2008	AMDT: ORIG
				DATED 02/16/2006

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.

NOTES CONT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BEIGE VIA V172 EASTBOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWTON ALTIMETER SETTING AND INCREASE ALL DAS 38 FEET AND ALL MDAS 40 FEET, INCREASE LPV AND LNAV/VNAV VISIBILITY 1/4 MILE ALL CATS AND LNAV CAT C VISIBILITY 1/4 MILE.

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	KGGI
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	414251.1905N
LTP/FTP LONGITUDE	0924433.4015W
LTP/FTP ELLIPSOIDAL HEIGHT	+02698
FPAP LATITUDE	414152.6600N
FPAP LONGITUDE	0924303.6800W
THRESHOLD CROSSING HEIGHT (TCH)	00034.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0707A18F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03018
FPAP ORTHOMETRIC HEIGHT	+03018

CITY AND STATE	ELEVATION: 1008 TDZE: 1005 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GRINNELL, IA	GRINNELL REGIONAL	RNAV	RNAV (GPS) RWY 13, AMDT 1 JUN 5 2008	AMDT: ORIG DATED: 02/16/2006

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.

ARINC PACKET - 424-18

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   APADY K30    W     N41461551W092494723                      E0004     NAR           APADY
        SUSAEAENRT   BAXKO K30    W     N41501551W092555703                      E0004     NAR           BAXKO
        SUSAEAENRT   BEIGE K30    C   L N41512880W092105986                      E0004     NAR           BEIGE
        SUSAEAENRT   CIRYI K30    W     N41540228W092513400                      E0004     NAR           CIRYI
        SUSAEAENRT   DEFSA K30    W     N41462857W093001955                      E0012     NAR           DEFSA
        SUSAEAENRT   PICRA K30    W     N41350072W092323429                      E0004     NAR           PICRA
        SUSAEAENRT   SINGR K30    R   L N41280680W092575611                      E0004     NAR           SINGR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGGIK3AGGI     0     052YHN41423560W092440950E002001008         1800018000C    MNAR    GRINNELL REGIONAL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGGIK3FR13   ABAXKO 010BAXKOK3EA0EE CR   HF                    12890040    + 03000     18000                A JS
        SUSAP KGGIK3FR13   ABEIGE 010BEIGEK3EA0E       IF                                            18000                A JS
        SUSAP KGGIK3FR13   ABEIGE 020CIRYIK3EA0E  A 020TF                    27310304    + 03000                          A JS
        SUSAP KGGIK3FR13   ABEIGE 030BAXKOK3EA0EE  L010TFY                   21900050    + 03000                          A JS
        SUSAP KGGIK3FR13   ASINGR 010SINGRK3EA0E       IF                                            18000                A JS
        SUSAP KGGIK3FR13   ASINGR 020DEFSAK3EA0E  A 020TF                    35240184    + 03000                          A JS
        SUSAP KGGIK3FR13   ASINGR 030BAXKOK3EA0EE  R010TFY                   03890050    + 03000                          A JS
        SUSAP KGGIK3FR13   R      010BAXKOK3EA0E  I    IF                                + 03000     18000                A JS
        SUSAP KGGIK3FR13   R      020APADYK3EA1E  F 051TF                    12890061    + 02700                RW13  K3PGA JS
        SUSAP KGGIK3FR13   R      020APADYK3EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KGGIK3FR13   R      030RW13 K3PG0GY M 031TF                    12900052      01024            -300          A JS
        SUSAP KGGIK3FR13   R      040PICRAK3EA0EYM  010DF                                + 03000                          A JS
        SUSAP KGGIK3FR13   R      050PICRAK3EA0EE HR020HM                    30920040    + 03000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGGIK3GRW13    0050001290 N41425119W092443340+0400    +02698009900200340 75R

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

CITY AND STATE	ELEVATION: 1008 TDZE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GRINNELL, IA	AIRPORT NAME: GRINNELL REGIONAL	RNAV	RNAV (GPS) RWY 13, AMDT 1 JUN 5 2008	AMDT: ORIG DATED: 02/16/2006

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.

```
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGGIK3PR13   RW13 001 0000W13A0N4142511905W09244334015+026980300N4141526600W09243036800106751224000340F4005000707A18F
        SUSAP KGGIK3PR13   RW13 002E      +03018+03018LPV       58107          000

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGGIK3SRW13 K3PG                0   18018002825                                                                    M
```

CITY AND STATE	ELEVATION: 1008 TDZE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GRINNELL, IA	AIRPORT NAME: GRINNELL REGIONAL	RNAV	RNAV (GPS) RWY 13, AMDT 1 JUN 5 2008	AMDT: ORIG
				DATED: 02/16/2006

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.

ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	BAXKO	BAXKO	010		HF	R	FB		128.9(131T)	004.0	03000
	BEIGE	BEIGE	010		IF		FB				
	BEIGE	CIRYI	020	IAF	TF		FB	2.0	273.1(275T)	030.4	03000
	BEIGE	BAXKO	030		TF	L	FB	1.0	219.0(221T)	005.0	03000
	SINGR	SINGR	010		IF		FB				
	SINGR	DEFSA	020	IAF	TF		FB	2.0	352.4(354T)	018.4	03000
	SINGR	BAXKO	030		TF	R	FB	1.0	038.9(041T)	005.0	03000
		BAXKO	010	FACF	IF		FB				03000
		APADY	020	FAF	TF		FB	0.5	128.9(131T)	006.1	02700
		RW13	030	MAP	TF		FO	0.3	129.0(131T)	005.2	01024

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	PICRA	040		DF		FO	1.0			03000
	PICRA	050		HM	R	FO	2.0	309.2(311T)	004.0	03000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	APADY	N414615.51	W0924947.23	N4146.259	W09249.787
	BAXKO	N415015.51	W0925557.03	N4150.259	W09255.951
	BEIGE	N415128.80	W0921059.86	N4151.480	W09210.998
	CIRYI	N415402.28	W0925134.00	N4154.038	W09251.567
	DEFSA	N414628.57	W0930019.55	N4146.476	W09300.326
	PICRA	N413500.72	W0923234.29	N4135.012	W09232.572
	SINGR	N412806.80	W0925756.11	N4128.113	W09257.935
	RW13	N414251.19	W0924433.40	N4142.853	W09244.557

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00990	34

CITY AND STATE	ELEVATION: 1008 TDZE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GRINNELL, IA	AIRPORT NAME: GRINNELL REGIONAL	RNAV	RNAV (GPS) RWY 13, AMDT 1 JUN 5 2008	AMDT: ORIG
				DATED: 02/16/2006