

**GENERAL****Operational Hours****ATS Hours:** TWR 1030-0500 $\pm$ , use CTAF outside TWR OPS hours**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index C / CAT 7**Fuel:** Jet A**PCN:** RWY 08R/26L: 62/R/B/W/T

RWY 08L/26R: 45/F/C/X/T

RWY 17/35: 60/R/B/W/T

**Customs:** MON-FRI 2HR PPR**Operation****Traffic Notes**

PPR for ACFT with wingspan 52m / 171ft and above.

RWY and APCH lights are turned off when TWR CLSD, thereafter activation by CTAF.

**TWY Restrictions**

MAX ACFT weight 79.3t / 175000lbs:

- TWY R north of TWY D.

MAX ACFT weight 45.3t / 100000lbs:

- TWY F north of TWY V.
- TWY J between F and J3 and TWY G.
- TWY Y 400ft north of TWY D.

MAX ACFT weight 21.3t / 47000lbs:

- TWY F south of TWY V.
- TWY J east of TWY F and west of TWY J3.

TWY R north of TWY D, TWY Y north of TWY D, TWY Z north of TWY D and TWY N are non-movement areas.

**Warnings**

Birds in vicinity of AD.

**ARRIVAL****Speed**

MAX IAS 250KT below 10000ft.

**Communication****COM Failure:** See CRAR United States.

**DEPARTURE**

**Take-off Minima**

RWY		08R/26L, 35	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	-
RWY		08L/26R, 17	
1+2 ENG	ft - ft/SM	0 - 1.0V	-
3+4 ENG		0 - 0.5V	-

**Speed**

MAX IAS 250KT below 10000ft.

**Communication**

**COM Failure:** See CRAR United States.

**Departure Procedure**

**Push-back:** Advisories on terminal ramp are not proved by ATC.

## GRR-KGRR

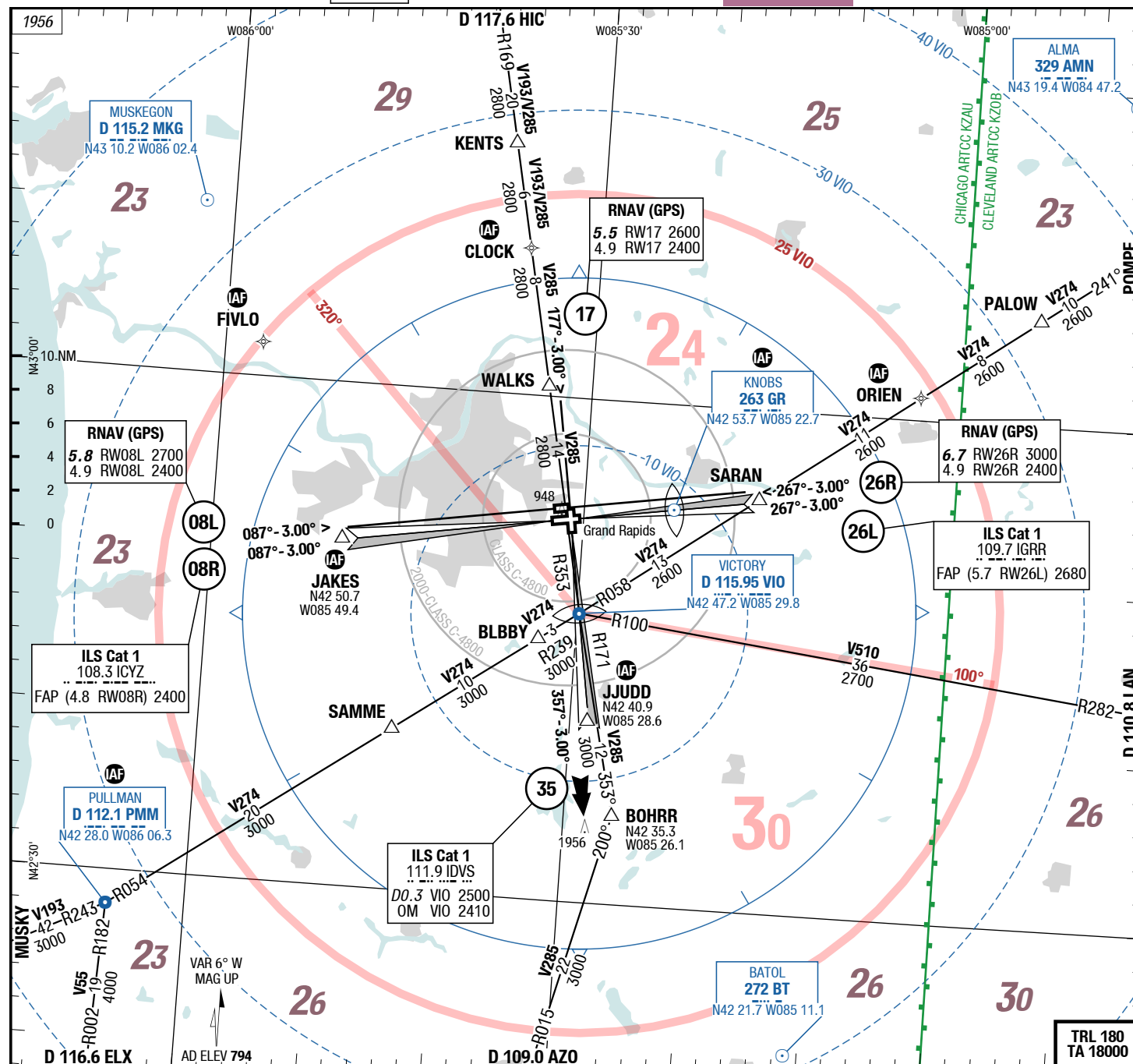
**AFC**

# AFC

# AFC

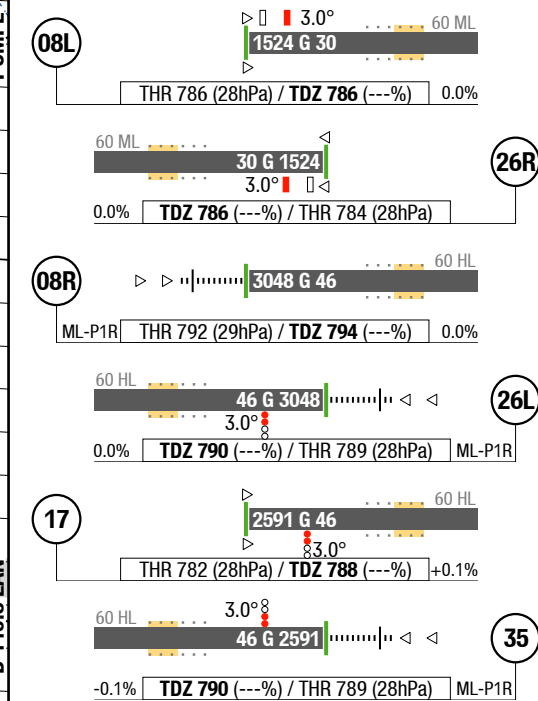
**AFC**

2-10

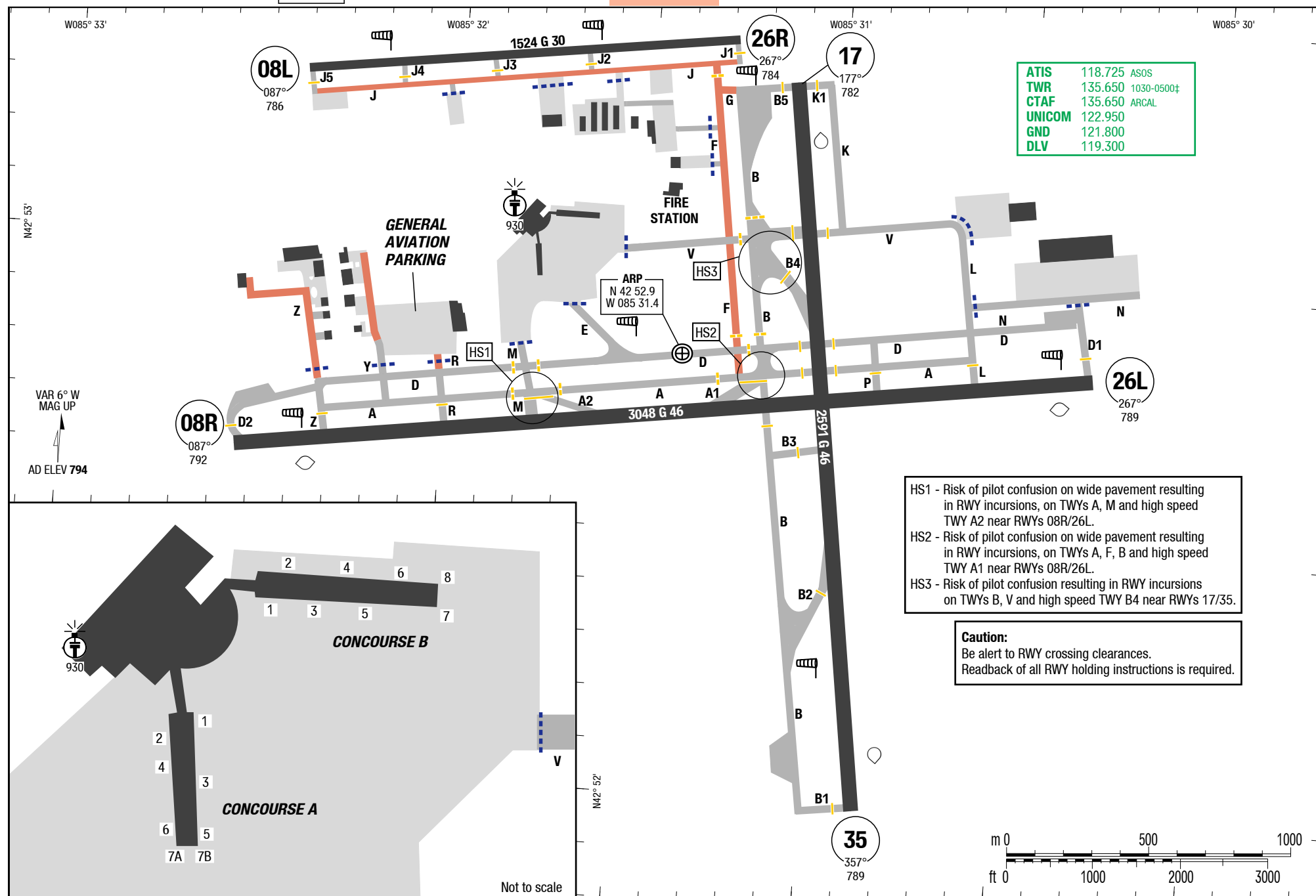


<b>ATIS</b>	118.725	ASOS		
<b>Chicago Center</b>			128.400	0500-1030‡
<b>APP/DEP</b>	124.600	N 1030-0500‡	128.400	S 1030-0500‡
<b>TWR</b>	135.650	1030-0500‡		
<b>CTAF</b>	135.650	ARCAL		
<b>UNICOM</b>	122.950			
<b>GND</b>	121.800			
<b>DLV</b>	119.300			

**Landing RWY system:**



Changes: APL, TDZE, RWY Width, THR ELEV, AWY



**GRR-KGRR**

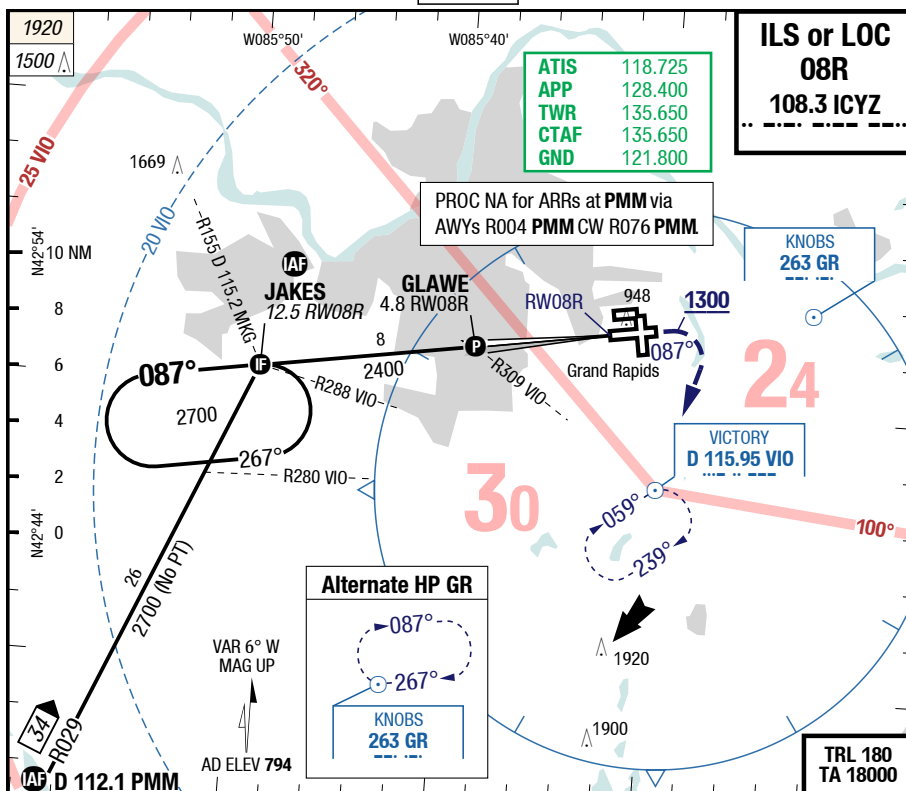
5-10

**Obstacle Departure**

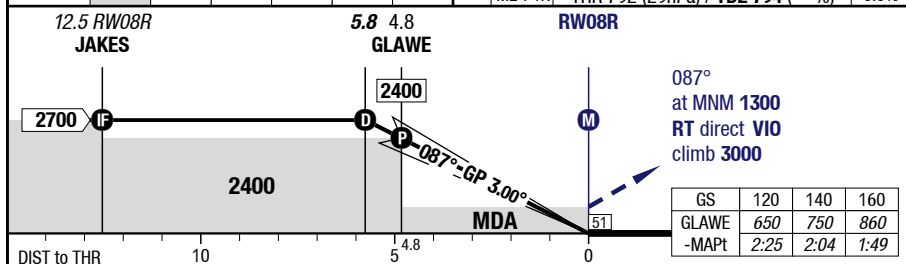
Obstacle Departure	
RWY	Notes
08L	Vehicle on road 20ft from DER, 156ft left of centerline, 15ft AGL/794ft MSL. Trees beginning 1419ft from DER, 740ft left of centerline, up to 100ft AGL/859ft MSL.
17	Trees beginning 1382ft from DER, 134ft left of centerline, up to 100ft AGL/929ft MSL. Trees beginning 1389ft from DER. 819ft right of centerline, up to 100ft AGL/899ft MSL.
26R	Terrain beginning 102ft from DER, 381ft right of centerline, up to 808ft MSL.
35	Vehicle on road 742ft from DER, 675ft left of centerline, up to 15ft AGL/804ft MSL. Trees beginning 2002ft from DER, 715ft left of centerline, up to 100ft AGL/869ft MSL. Trees beginning 1339ft from DER, 7ft right of centerline, up to 100ft AGL/879ft MSL.

# GRR-KGRR

**7-10**

**ILS or LOC 08R**

LOC 3.04° RW08R	5.8	5	4	3	2	
	2700	2460	2140	1810	1490	



<b>08R</b>		<b>Cat 1</b> 1)	<b>LOC</b>	<b>SRA</b> 2)			<b>Circling</b> <i>N<sub>GW</sub></i> <b>TERPS</b>
<b>C</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>1000</b>	450 - 4500R/0.88V <b>1240</b>	410 - 0.75V <b>1200</b>			600 - 1.5V <b>1400</b>
<b>D</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>1000</b>	450 - 4500R/0.88V <b>1240</b>	410 - 1.0V <b>1200</b>			700 - 2.25V <b>1500</b>

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

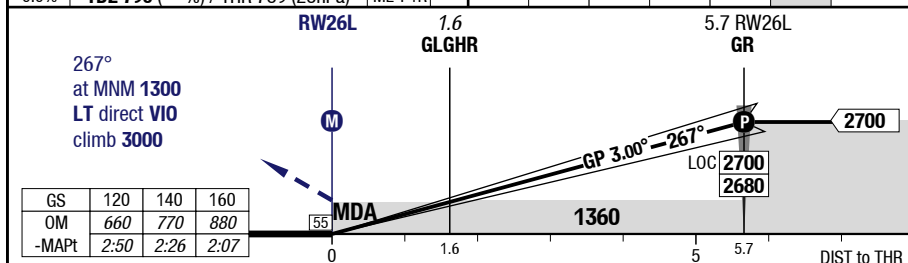
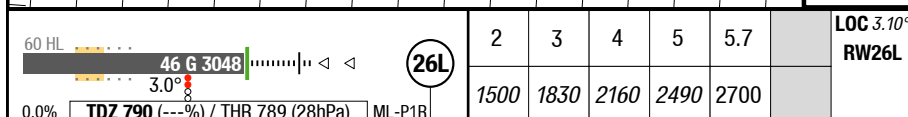
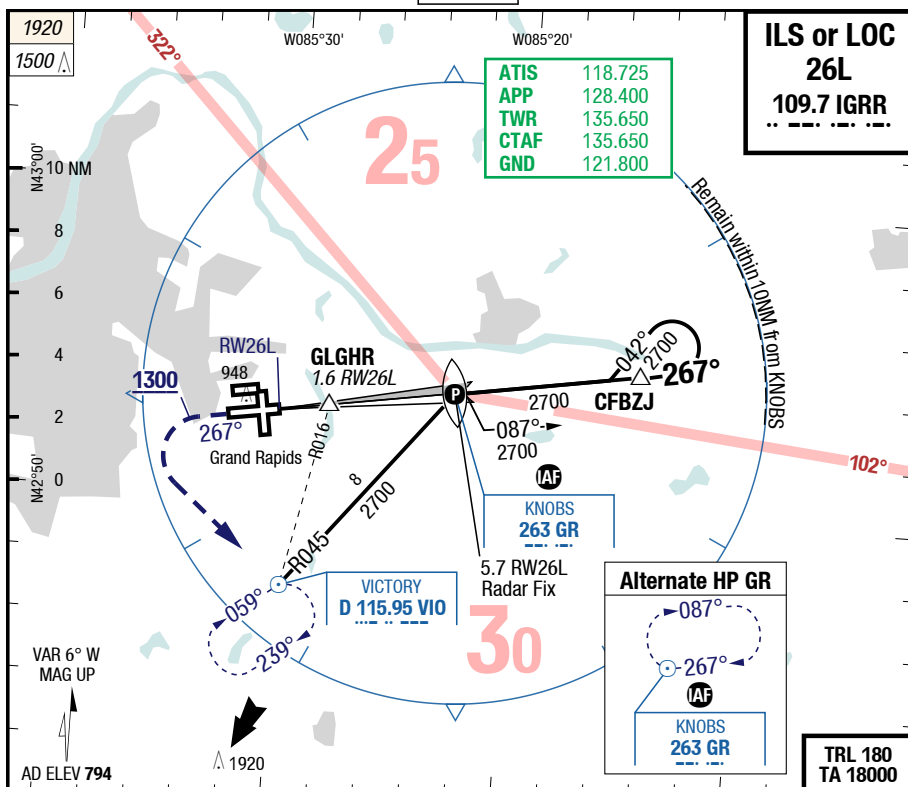
2) When TWR CLSD PROC NA

AMDT 6B

GRR-KGRR

7-20

ILS or LOC 26L



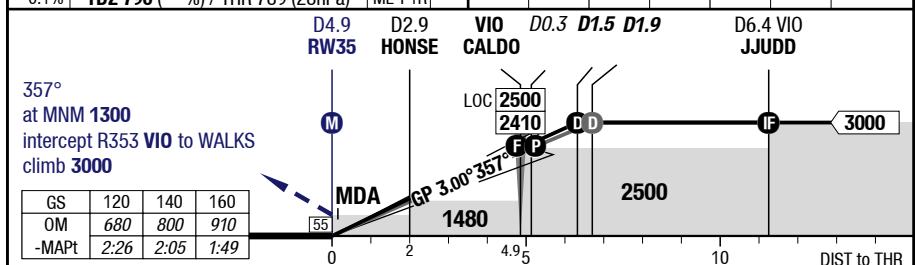
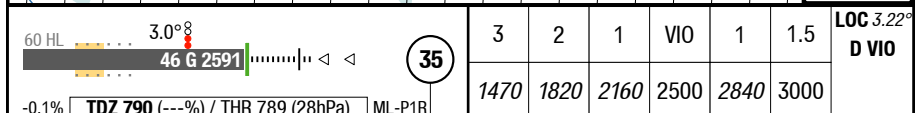
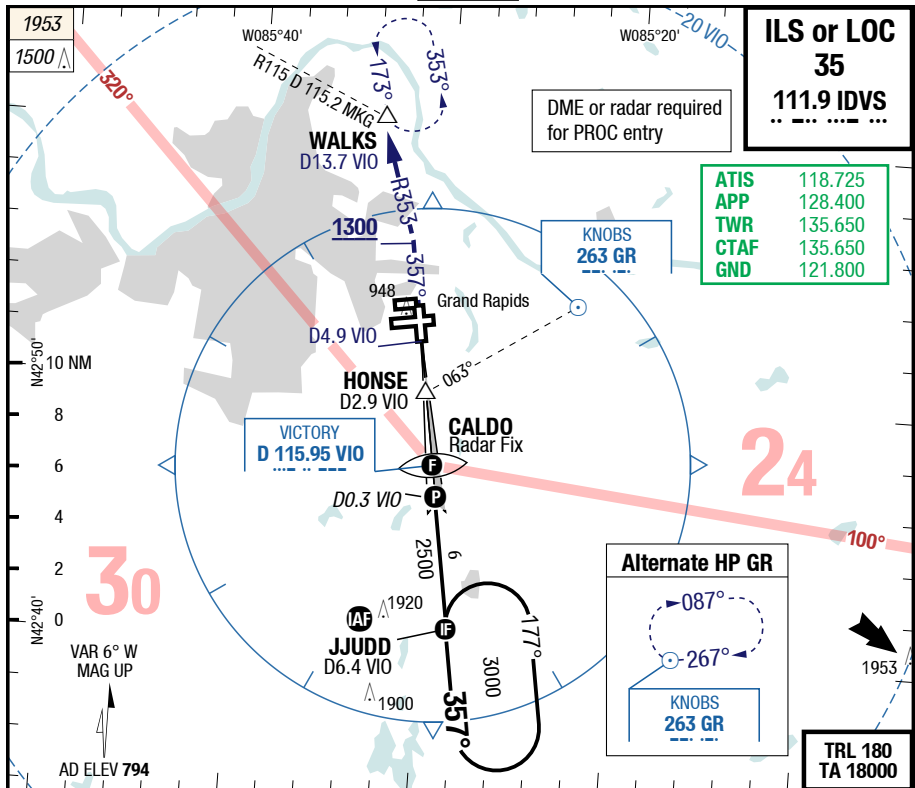
TERPS	26L	Cat 1 1)	Cat 1 BIV QNH APL U/S 2)	LOC VOR VIO	LOC wo GLGHR	SRA 3)	Circling NeW TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 990	200 - 5000R/1.0V 990	330 - 2600R/0.5V 1120	570 - 1.25V 1360	350 - 3000R/0.63V 1140	600 - 1.5V 1400
D	ft - ft/SM ft	200 - 1800R/0.5V 990	200 - 5000R/1.0V 990	330 - 4000R/0.75V 1120	570 - 1.25V 1360	350 - 5000R/1.0V 1140	700 - 2.25V 1500

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM 3) When TWR CLSD PROC NA  
2) Use with Holland (KBIV) QNH

# GRR-KGRR

**7-30**

## ILS or LOC 35



35		Cat 1 <sup>1)</sup>	LOC	LOC wo HONSE		Circling <sup>2)</sup> TERPS	Circling <sup>2)</sup> TERPS
TERPS						N <sub>ex</sub>	N <sub>ex</sub>
C	ft - ft/SM ft	200 - 1800R/0.5V 990	410 - 4000R/0.75V 1200	690 - 1.5V 1480		600 - 1.5V 1400	690 - 2.0V 1480
D	ft - ft/SM ft	200 - 1800R/0.5V 990	410 - 4000R/0.75V 1200	690 - 1.5V 1480		700 - 2.25V 1500	700 - 2.25V 1500

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM  
2) wo HONSE



**22-MAR-2018**

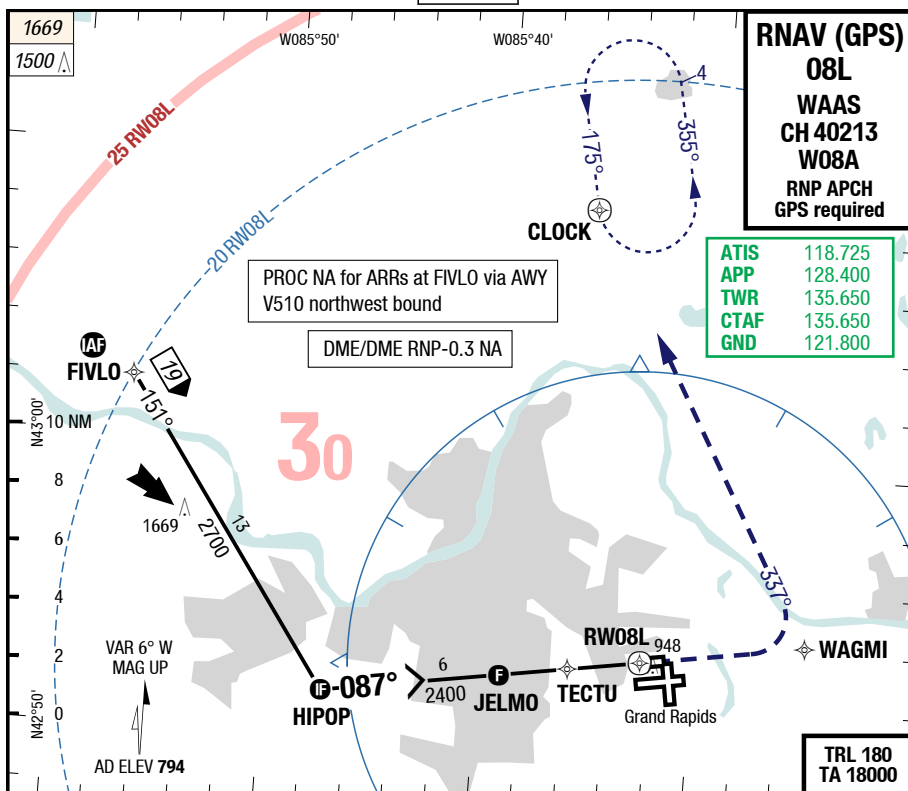
United States **Grand Rapids** Gerald R Ford Intl




# IAC

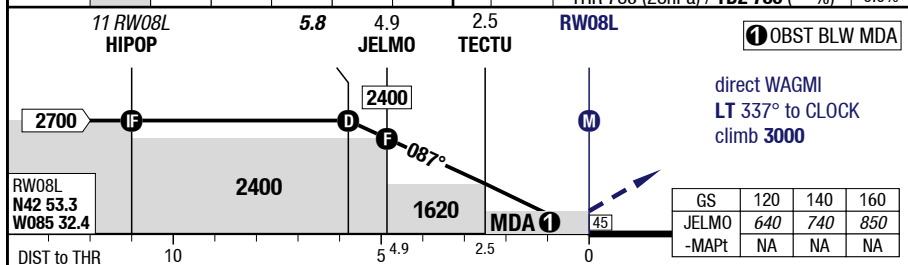
# GRR-KGRR

7-50

## RNAV (GPS) 08L



3.00° RW08L		5.8	5	4	3	2		 3.0° ... 60 ML  1524 G 30 ...
		2700	2450	2130	1800	1480		



08L		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV	SRA 2)	Circling N <sub>BR</sub> TERPS	Circling 3) TERPS
C	ft - ft/SM ft	260 - 1.0V 1040	420 - 1.5V 1210	400 - 1.13V 1180	440 - 1.25V 1220	600 - 1.5V 1400	600 - 1.5V 1400
D	ft - ft/SM ft	260 - 1.0V 1040	420 - 1.5V 1210	400 - 1.25V 1180	440 - 1.5V 1220	700 - 2.25V 1500	700 - 2.25V 1500

1) Uncompensated BARO VNAV NA below -16°C (4°F) or above 47°C (116°F) 2) When TWR CLSD PROC NA 3) SRA

Changes: MIN, TDZE

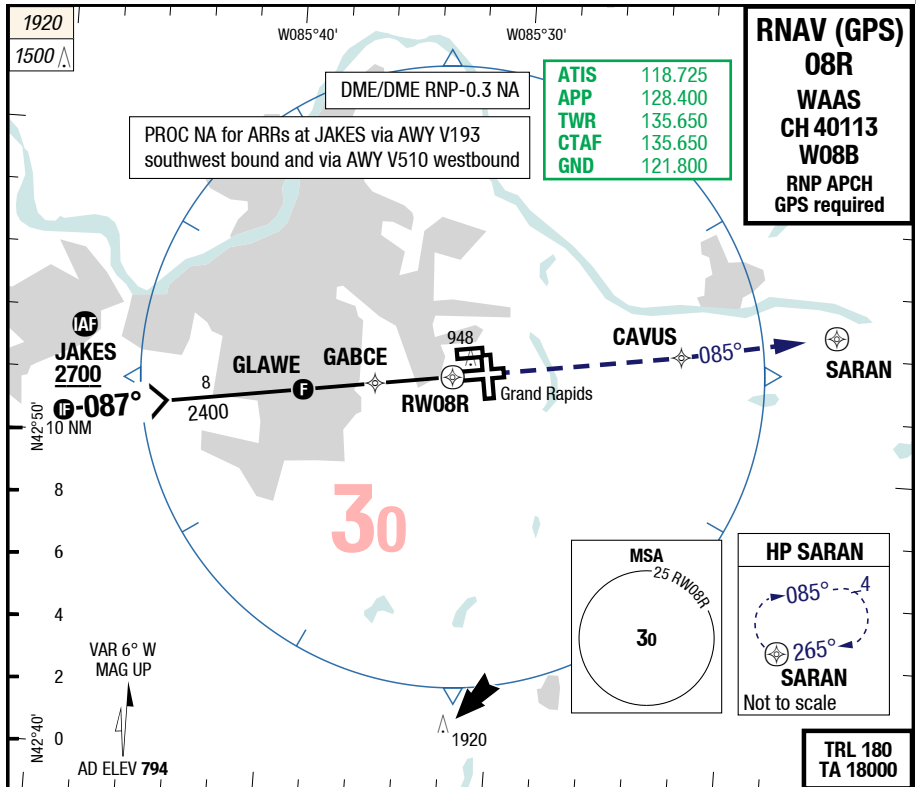
AMDT 1A

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GRR-KGRR

7-60

RNAV (GPS) 08R



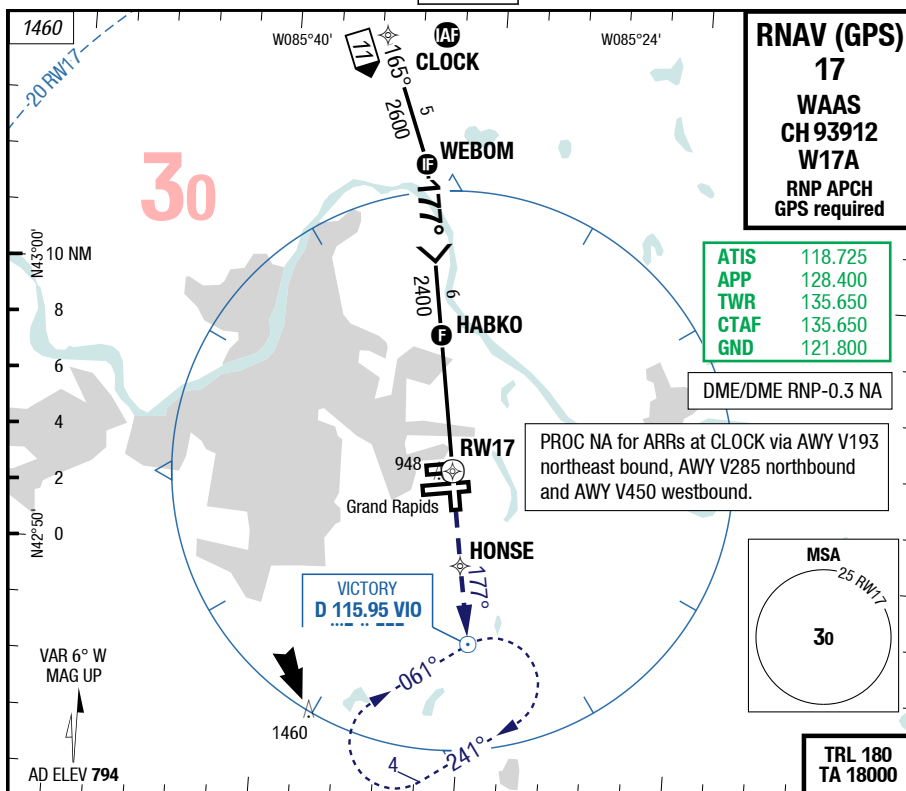
08R		RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM	200 - 1800R/0.5V <b>1000</b>	510 - 5500R/1.0V <b>1300</b>	390 - 3500R/0.63V <b>1180</b>	
D	ft - ft/SM	200 - 1800R/0.5V <b>1000</b>	510 - 5500R/1.0V <b>1300</b>	390 - 5000R/1.0V <b>1180</b>	600 - 1.5V <b>1400</b>
					700 - 2.25V <b>1500</b>

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM  
 2) Uncompensated BARO VNAV NA below -16°C (4°F) or above 47°C (116°F)

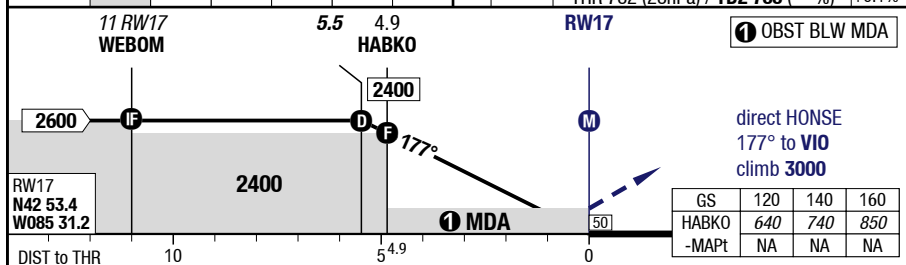
# GRR-KGRR

7-70

## RNAV (GPS) 17



3.00° RW17		5.5	5	4	3	2	<div> <div>17</div> <div> <div>2591 G 46</div> <div>60 HL</div> </div> <div>8.3.0°</div> <div> <div>THR 782 (28hPa) / TDZ 788 (---%)</div> <div>+0.1%</div> </div> </div>
		2600	2450	2130	1800	1480	



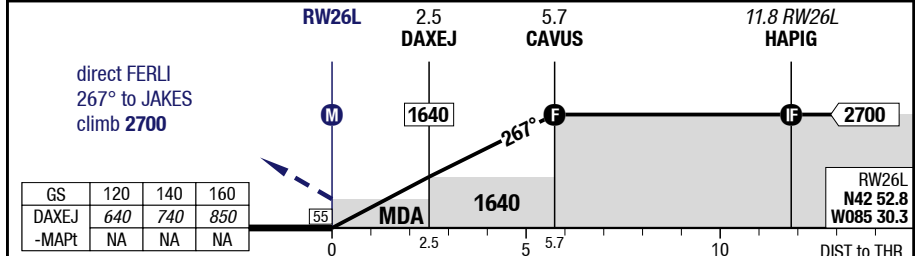
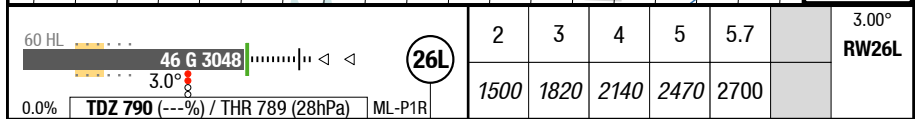
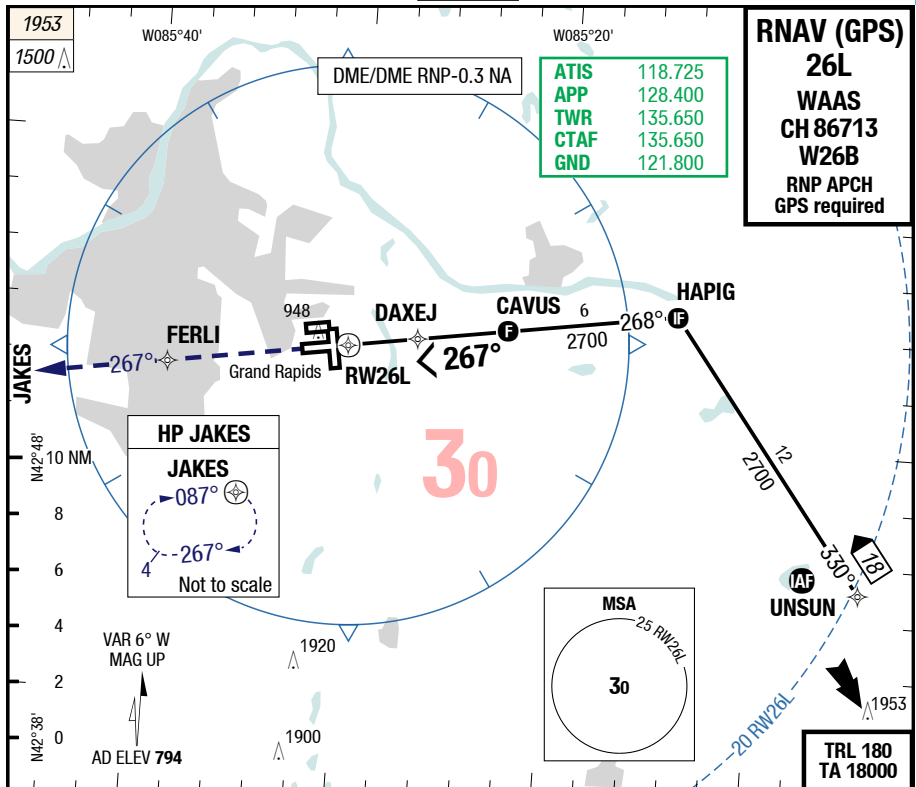
17		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV		Circling TERPS
C	ft - ft/SM ft	320 - 1.0V 1110	480 - 1.75V 1260	420 - 1.25V 1200		600 - 1.75V 1400
D	ft - ft/SM ft	320 - 1.0V 1110	480 - 1.75V 1260	420 - 1.25V 1200		700 - 2.25V 1500

1) Uncompensated BARO VNAV NA below -16°C (4°F) or above 54°C (130°F)

GRR-KGRR

7-80

RNAV (GPS) 26L



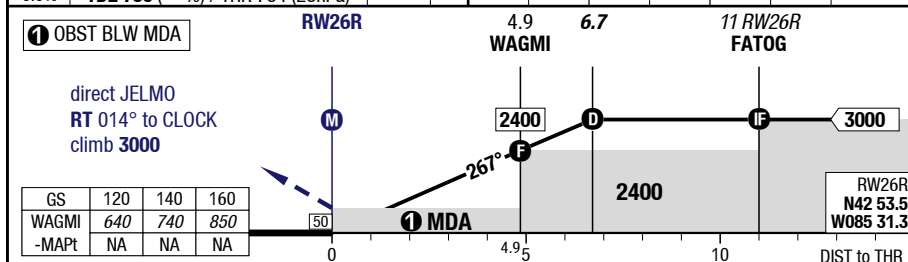
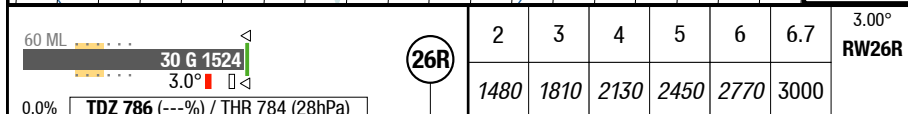
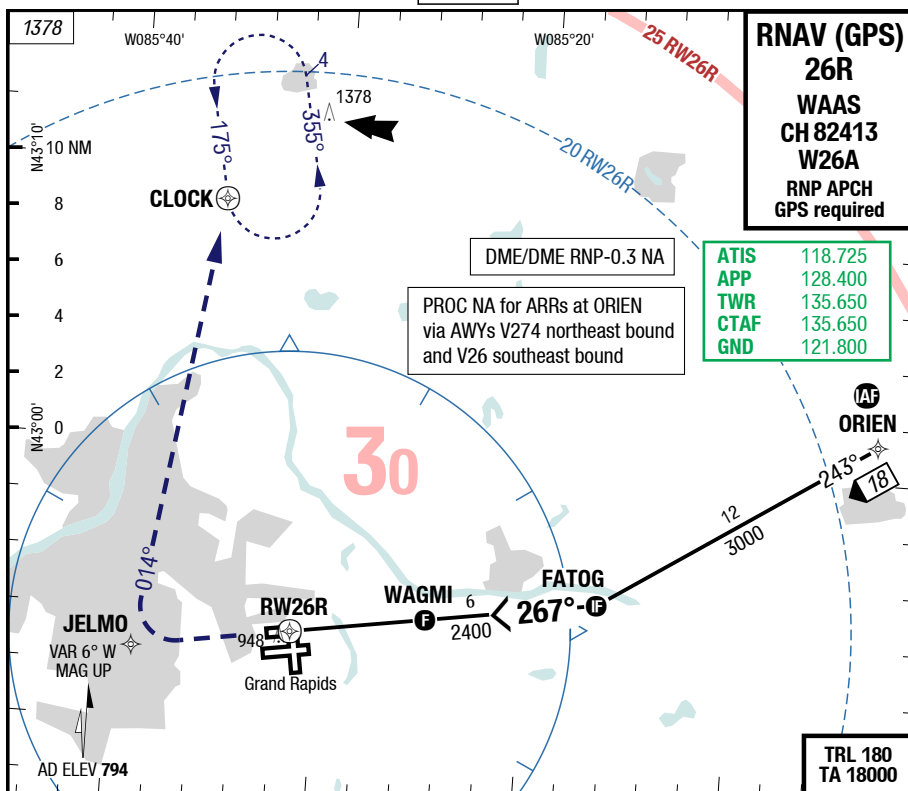
26L	RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM 200 - 1800R/0.5V 990	330 - 2600R/0.5V 1120	490 - 5000R/1.0V 1280	600 - 1.5V 1400
D	ft - ft/SM 200 - 1800R/0.5V 990	330 - 4000R/0.75V 1120	490 - 5000R/1.0V 1280	700 - 2.25V 1500

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM  
 2) Uncompensated BARO VNAV NA below -16°C (4°F) or above 54°C (130°F)

# GRR-KGRR

7-90

## RNAV (GPS) 26R



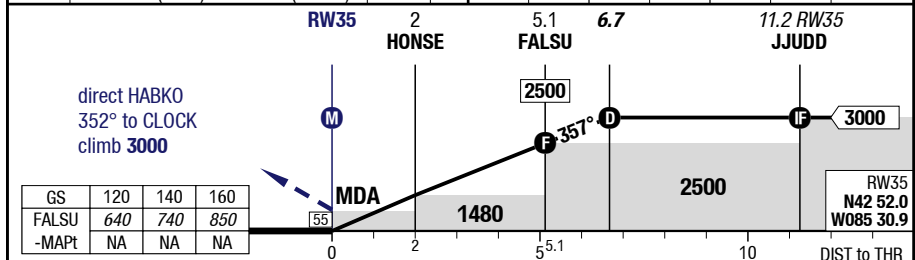
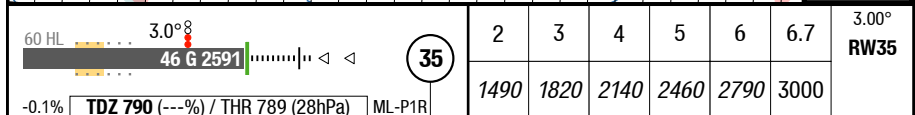
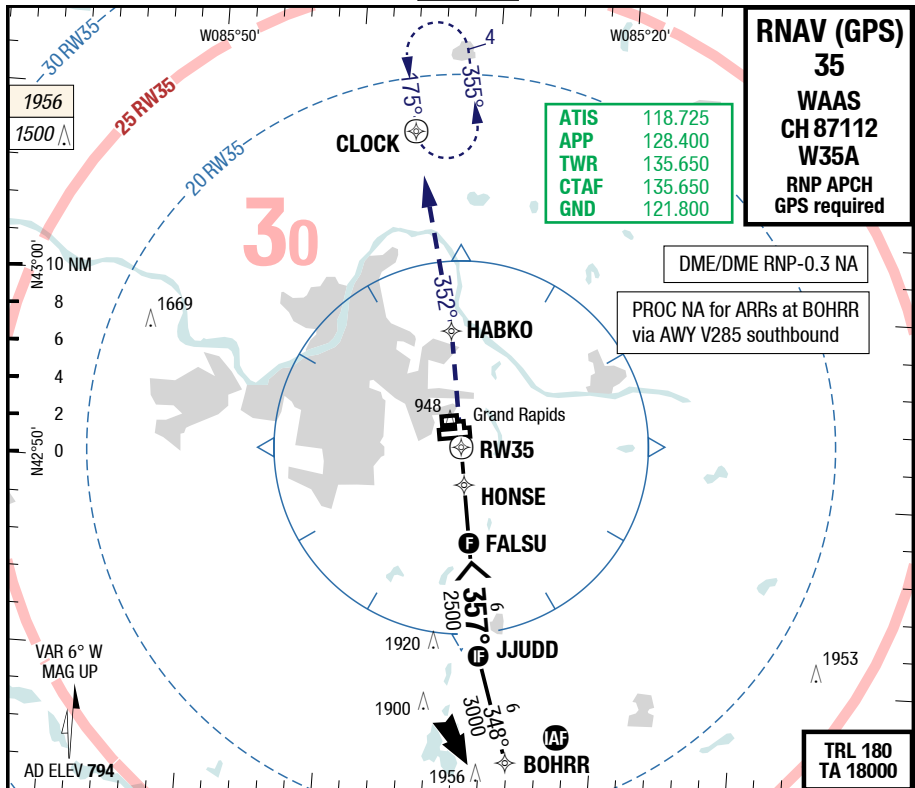
26R		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV	SRA 2)	Circling 3) TERPS	Circling 3) TERPS
C	ft - ft/SM ft	260 - 1.0V 1040	430 - 1.5V 1220	500 - 1.38V 1280	500 - 1.38V 1280	600 - 1.5V 1400	600 - 1.5V 1400
D	ft - ft/SM ft	260 - 1.0V 1040	430 - 1.5V 1220	500 - 1.5V 1280	500 - 1.5V 1280	700 - 2.25V 1500	700 - 2.25V 1500

1) Uncompensated BARO VNAV NA below -16°C (4°F) or above 47°C (116°F) 2) When TWR CLSD PROC NA 3) SRA

# GRR-KGRR

**7-100**

## RNAV (GPS) 35



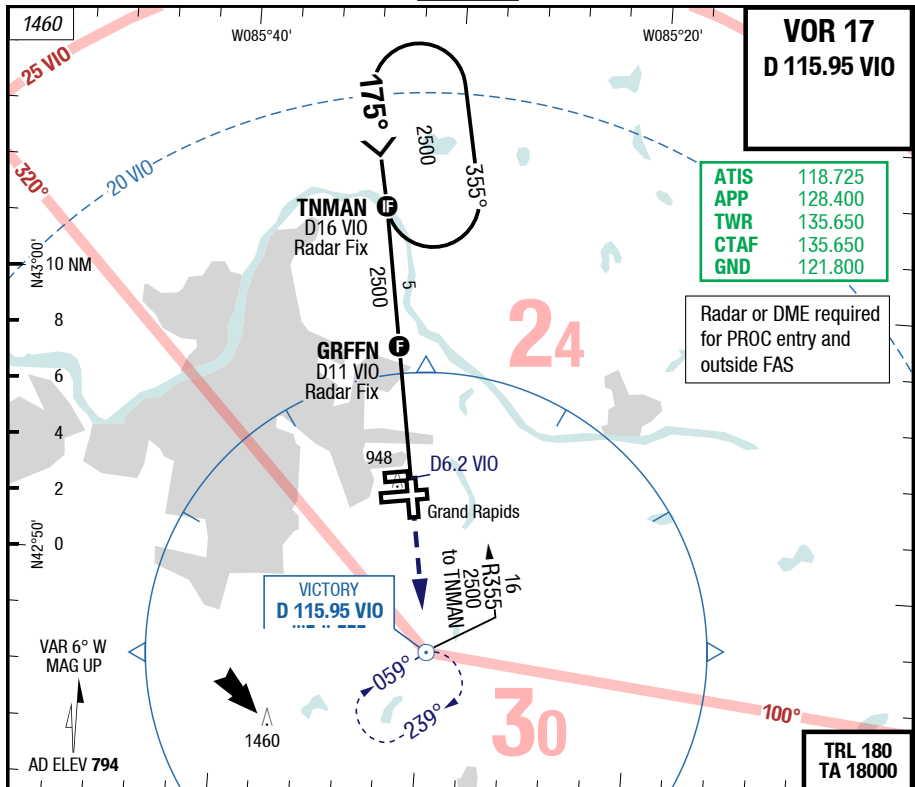
35		RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV			Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 990	450 - 5000R/1.0V 1240	390 - 3500R/0.63V 1180			600 - 1.5V 1400
D	ft - ft/SM ft	200 - 1800R/0.5V 990	450 - 5000R/1.0V 1240	390 - 5000R/1.0V 1180			700 - 2.25V 1500

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM  
2) Uncompensated BARO VNAV NA below -16°C (4°F) or above 54°C (130°F)

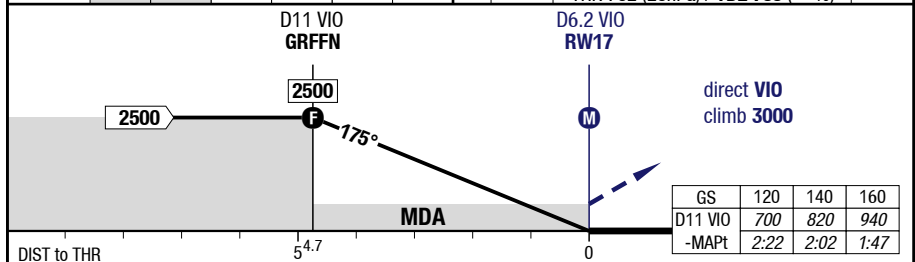
GRR-KGRR

7-110

VOR 17



3.32° D VIO			11	10	9	8	(17)	2591 G 46 60 HL
			2500	2150	1800	1450		83.0°
THR 782 (28hPa) / TDZ 788 (---%) +0.1%								



17	VOR	VOR				Circling TERPS
T <sub>Enr</sub>		BIV QNH <sup>1)</sup>				
C	ft - ft/SM ft	420 - 1.25V 1200	500 - 1.38V 1280			600 - 1.5V 1400
D	ft - ft/SM ft	420 - 1.25V 1200	500 - 1.5V 1280			700 - 2.25V 1500

1) Use with Holland (KBIV) QNH