

**GENERAL****Operational Hours****ATS Hours:** TWR 1100-0400 $\pm$ , use CTAF outside TWR OPS hours**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index B / CAT 6, higher FAA Index C / CAT 7 O/R**Fuel:** Jet A**PCN:** RWY 05/23, RWY 14/32: 50/F/C/X/U**Operation****Traffic Notes**

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

Low Level Windshear Alert System (LLWAS) in operation.

**Warnings****MBS VOR/DME** unusable: between R192-R200.**EMERG FREQ:** 121.500 not AVBL on TWR.

Birds in vicinity of AD.

**ARRIVAL****Speed**

MAX IAS 250KT below 10000ft.

**Communication****COM Failure:** See CRAR.**Arrival Procedure****Non-standard GP Intercept Position on****RWY 05**GP intercepts RWY 05 at *349m / 1145ft* after landing threshold.Remaining DIST beyond *2090m / 6857ft*.**RWY 23**GP intercepts RWY 23 at *320m / 1049ft* after landing threshold.Remaining DIST beyond *2119m / 6953ft*.

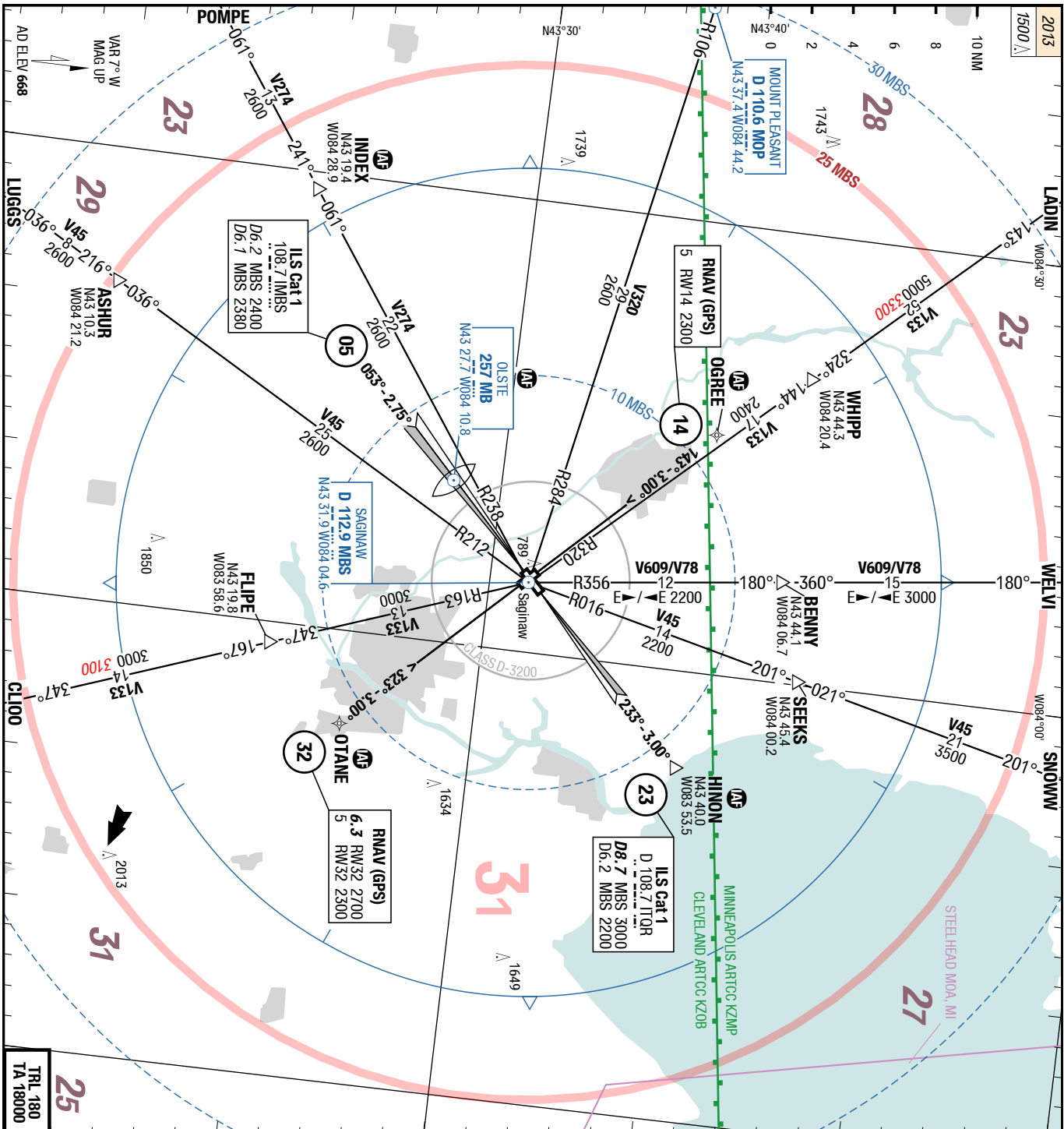
**DEPARTURE****Take-off Minima**

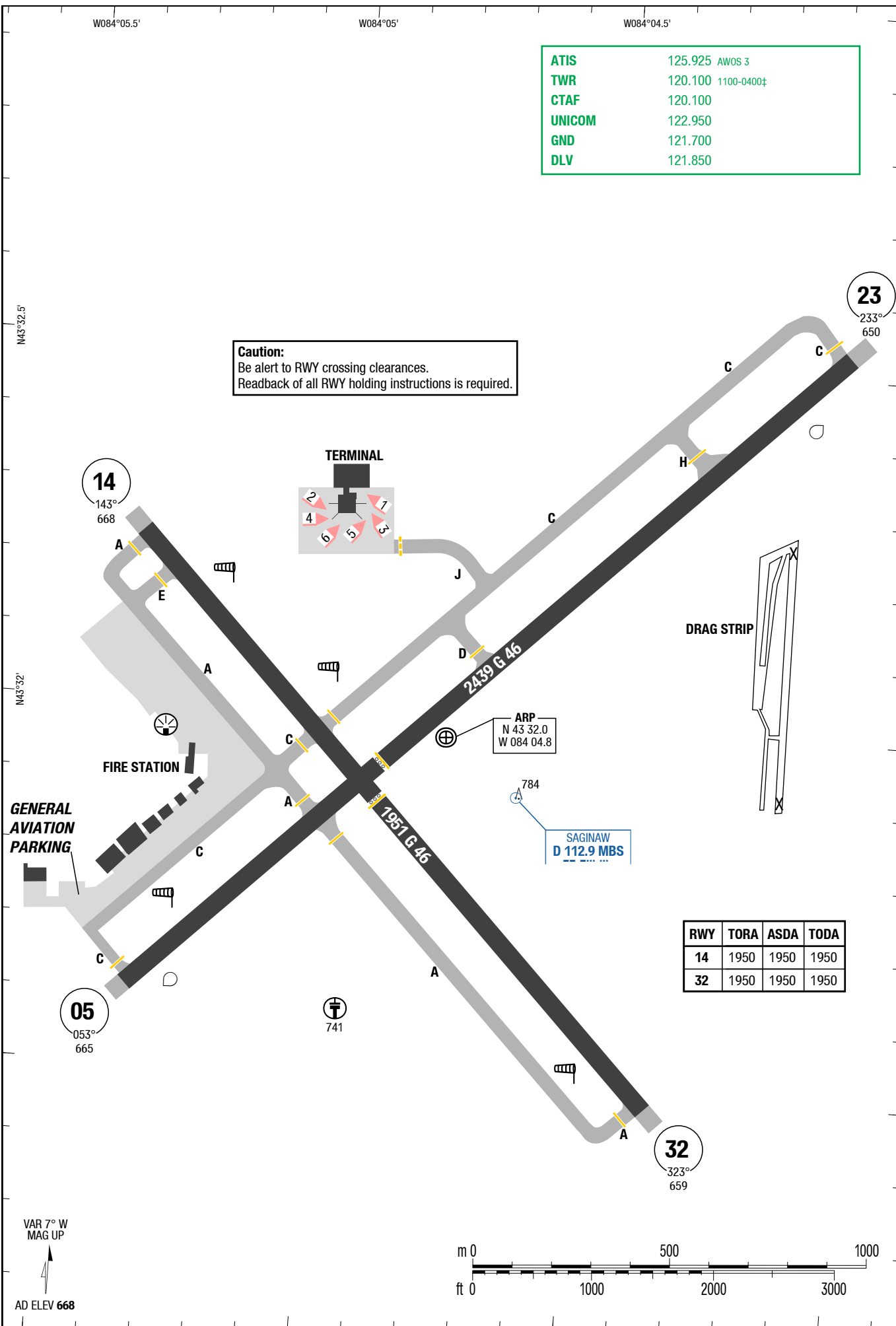
RWY		05/23	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5v	-
RWY		14/32	
1+2 ENG	ft - ft/SM	0 - 1.0V	-
3+4 ENG		0 - 0.5v	-

**Speed**

MAX IAS 250KT below 10000ft.

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



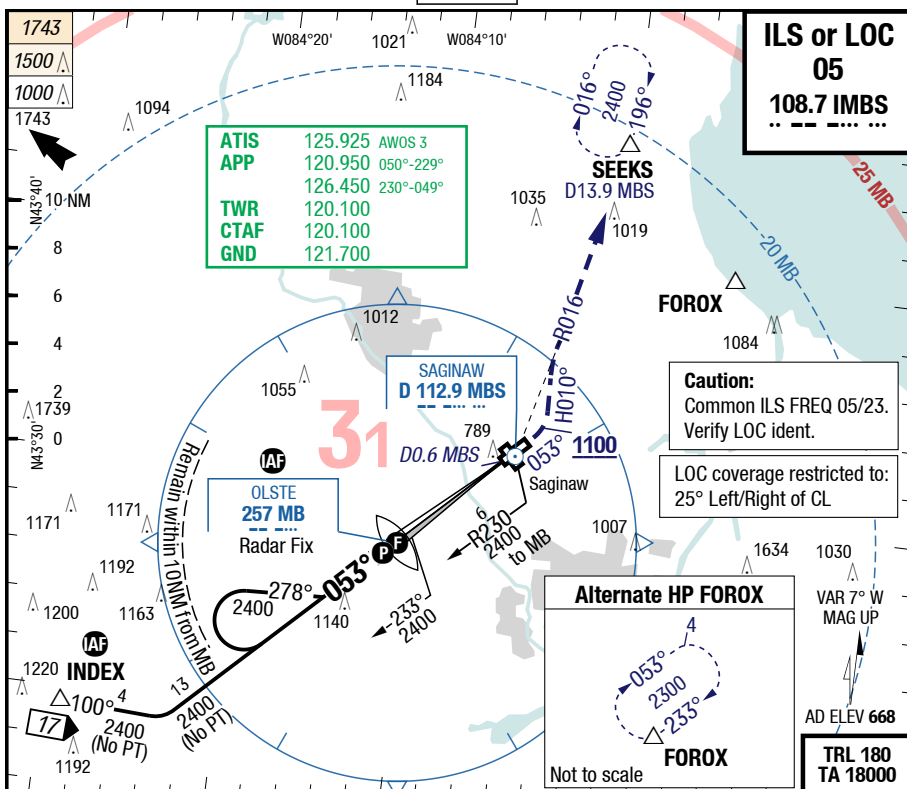


Obstacle Departure	
RWY	Notes
05	Vegetation 85ft from DER, 269ft right of centerline, 654ft MSL.
23	Transmission line, pole beginning 1259ft from DER, 785ft left of centerline, up to 29ft AGL/698ft MSL. Tree 2169ft from DER, 1071ft right of centerline, 725ft MSL.
32	Tree 1447ft from DER, 706ft left of centerline, 734ft MSL. Tree 3628ft from DER, 650ft left of centerline, 767ft MSL.

12-JUL-2018

United States **Saginaw** MBS Intl

IAC

**MBS-KMBS****7-10****ILS or LOC 05**

05		Cat 1 <sup>1)</sup>	LOC	Circling	
TERPS				TERPS	
C	ft - ft/SM ft	200 - 1800R/0.5V <b>870</b>	440 - 4500R/0.88V <b>1100</b>	600 - 1.5V <b>1270</b>	
D	ft - ft/SM ft	200 - 1800R/0.5V <b>870</b>	440 - 4500R/0.88V <b>1100</b>	700 - 2.25V <b>1370</b>	

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

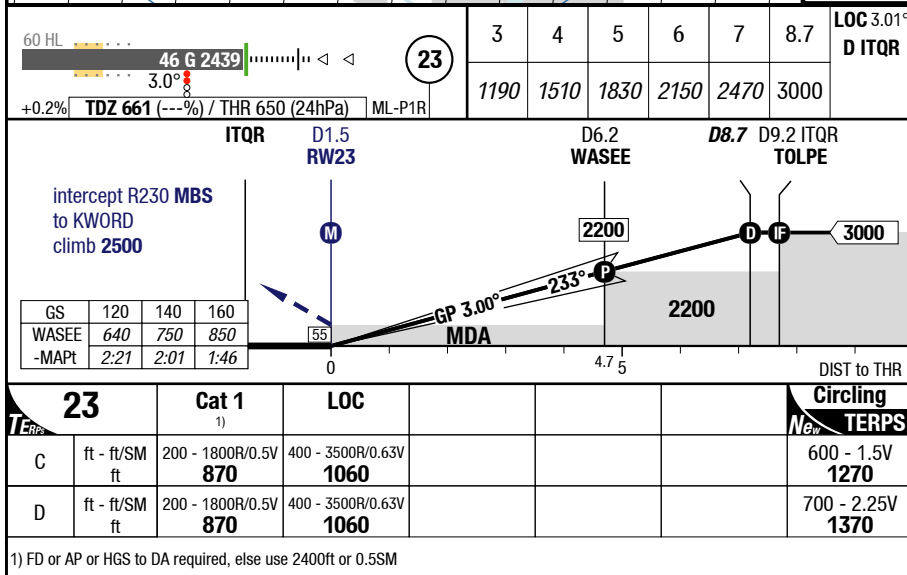
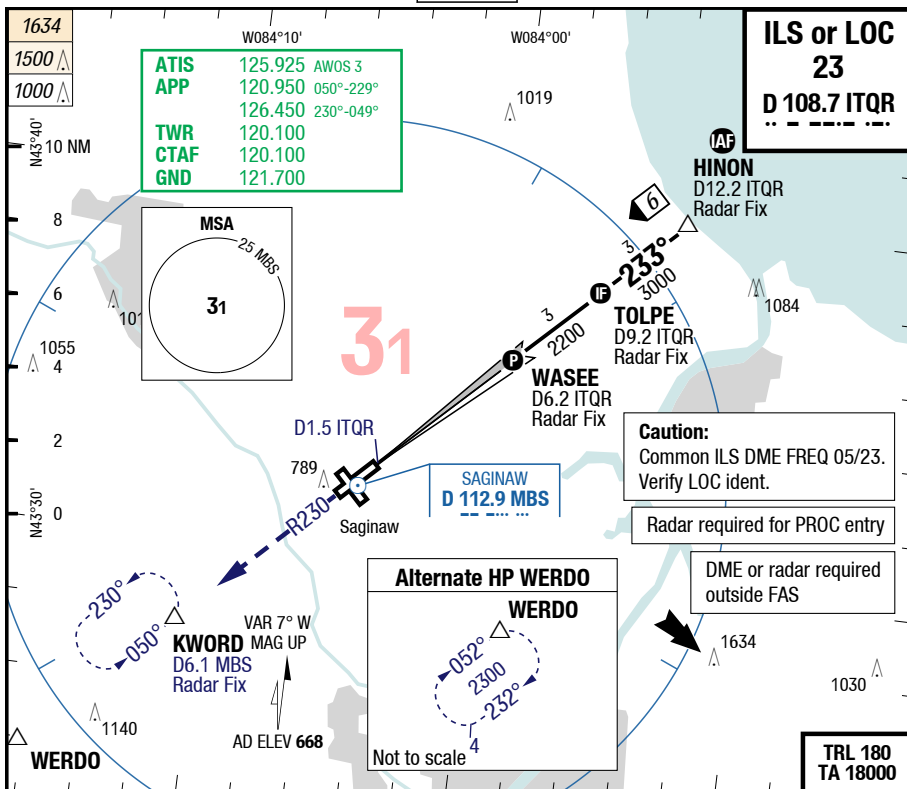
Changes: FREQ

AMDT 11

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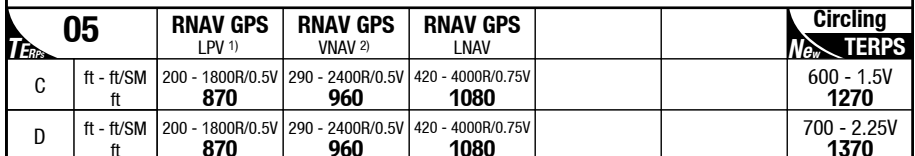
**MBS-KMBS****7-20****ILS or LOC 23**

Changes: FREQ

AMDT 5

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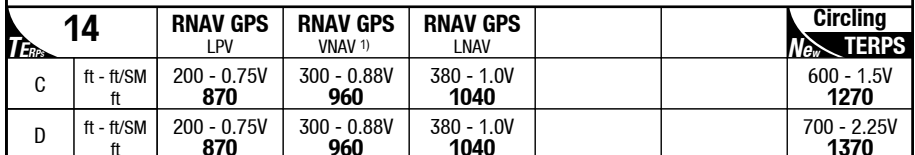
## RNAV (GPS) 05



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## RNAV (GPS) 14

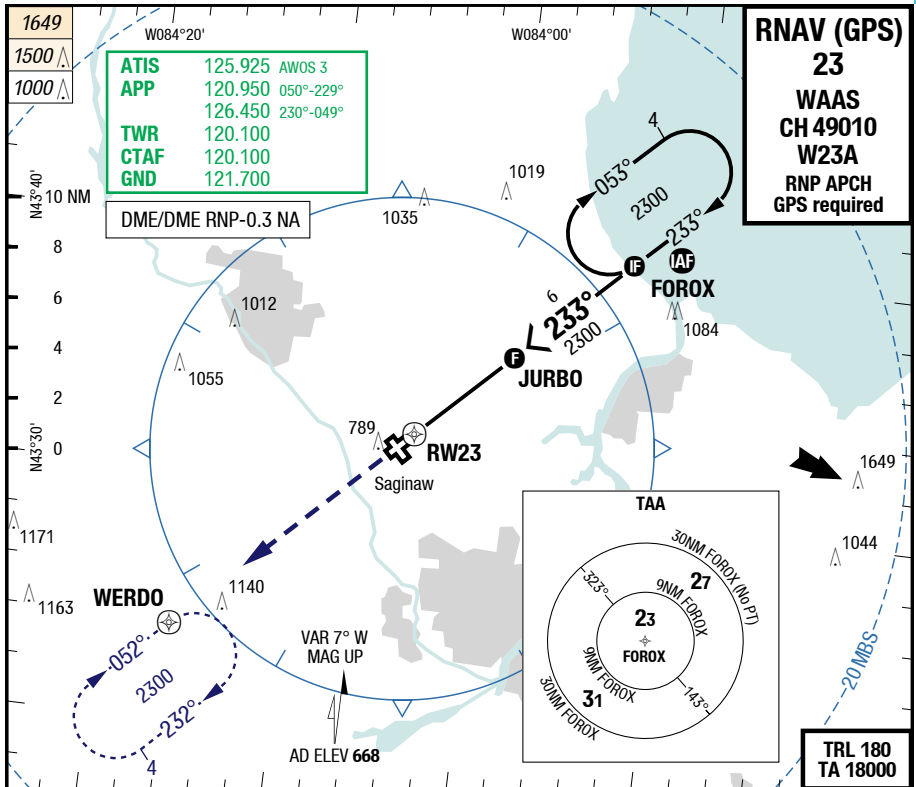


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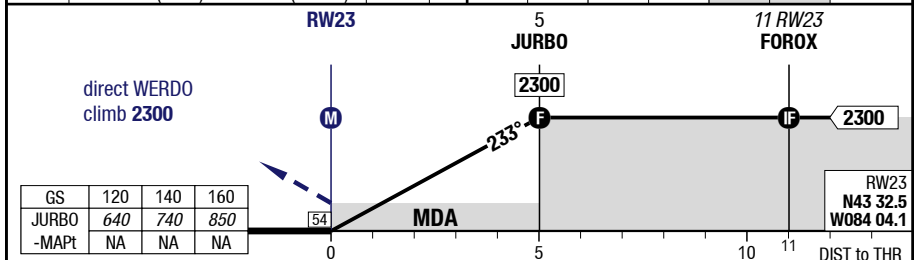
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**MBS-KMBS**

7-50

**RNAV (GPS) 23**

60 HL	46 G 2439	23	2	3	4	5	3.00°
TDZ 661 (---%) / THR 650 (24hPa)	ML-P1R		1340	1660	1980	2300	RW23



23	RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM 200 - 1800R/0.5V 870	280 - 2400R/0.5V 940	400 - 3500R/0.63V 1060	600 - 1.5V 1270
D	ft - ft/SM 200 - 1800R/0.5V 870	280 - 2400R/0.5V 940	400 - 3500R/0.63V 1060	700 - 2.25V 1370

1) FD or AP or HGS to DA required, else use 2400ft or 0.5SM  
 2) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

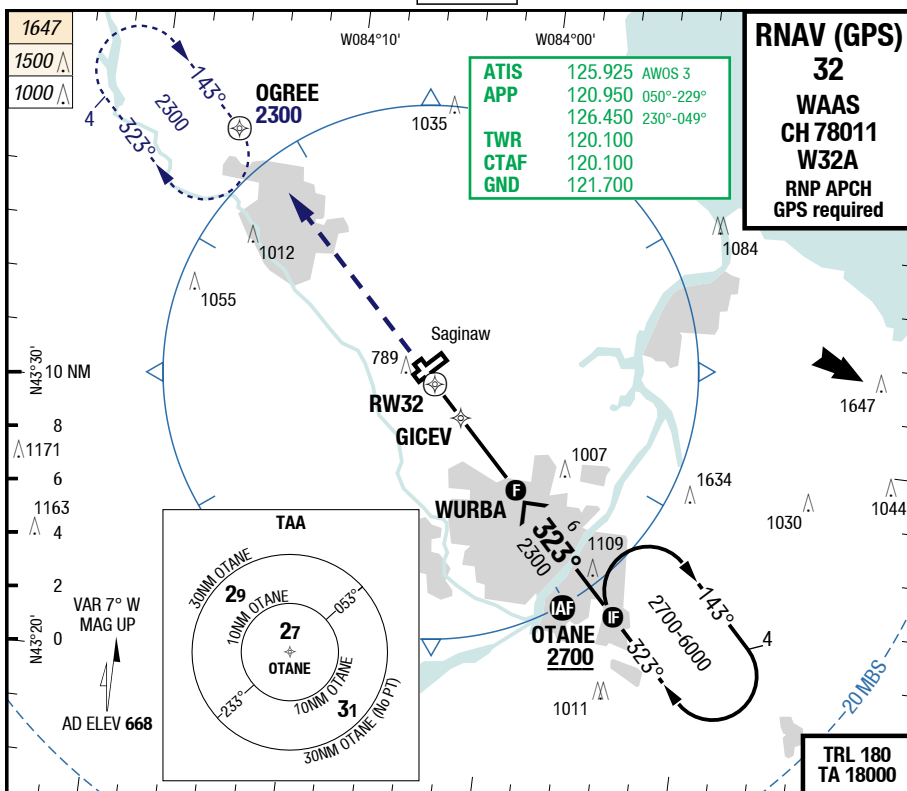
Changes: FREQ

AMDT 2

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**MBS-KMBS****7-60****RNAV (GPS) 32**

Changes: FREQ

AMDT 2A

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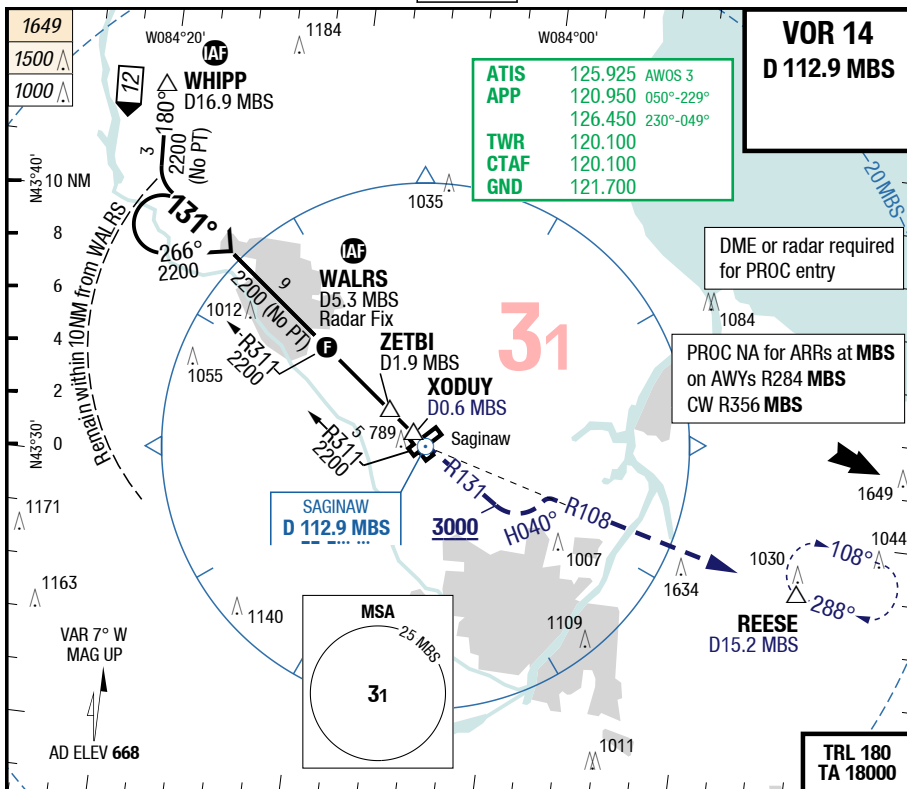
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**MBS-KMBS**

7-70

**VOR 14**



3.00° <b>D MBS</b> 131° RWY 143°	5.3	5	4	3	2	14	83.0° 1950 G 46 60 HL	THR 668 (24hPa) / TDZ 668 (---%) -0.1%
D5.3 MBS <b>WALRS</b> 2200	2200	2110	1790	1470	1160	1120	D1.9 <b>ZETBI</b> 1120	D0.6 MBS <b>XODUY</b> M
2200	131°					MDA		R131 at MNM 3000 LT HDG 040° intercept R108 MBS to REESE maintain 3000
DIST to THR 5	4.7					1.3	0	GS D5.3 MBS -MAPt
<b>14</b>	<b>VOR DME</b>	<b>VOR</b> wo ZETBI						<b>Circling</b> <b>TERPS</b>
C	ft - ft/SM ft	380 - 1.38V 1040	460 - 1.38V 1120					600 - 1.5V 1270
D	ft - ft/SM ft	380 - 1.38V 1040	460 - 1.38V 1120					700 - 2.25V 1370

Changes: FREQ

AMDT 14

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