

MSO-KMSO

1-10

A01

GENERAL**Operational Hours****ATS Hours:** TWR 1300-0500Z, use CTAF outside TWR OPS hours**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index B / CAT 6**PCN:** RWY 12/30: 83/F/D/W/T**Operation****Traffic Note**

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

RWY Restriction

RWY 12/30: 180° turns prohibited for ACFT over 5.7t / 12500lbs gross weight on all movement areas. Avoid locked turns.

When TWR CLSD, RWY 08/26 CLSD except for taxi.

TWY Restriction

TWY G between RWY 08 end to RWY 12/30 MAX 5.7t / 12500lbs. Avoid locked turns.

Warnings**MSO VOR/DME** unusable:

R082-R150 beyond 20NM below 11000ft.

R168-R223 beyond 25NM.

R223-R243 beyond 20NM below 12000ft.

R343-R043 beyond 10NM.

MSO VOR unusable:

R082-R116 beyond 27NM below 13000ft.

MSO DME unusable:

R082-R116 beyond 27NM below 14000ft.

RWY 08/26 surface variations with patches.

Parachute jumping in vicinity of AD.

Hang glider OPS 5.5NM east of RWY 30.

Birds in vicinity of AD, especially APR-MAY and OCT-DEC.

ARRIVAL**Speed**

MAX IAS 250KT below 10000ft.

Communication**COM Failure:** See CRAR.

DEPARTURE

Take-off Minima

RWY		12	
	ft - ft/SM	SID MZULA	
1+2 ENG		0 - 5000R/1.0V	MNM climb gradient 5.6% up to 7800
3+4 ENG		0 - 2400R/0.5V	
		All other departures	
1+2 ENG		0 - 5000R/1.0V	MNM climb gradient 5.6% up to 7800
3+4 ENG		0 - 2400R/0.5V	
All ACFT		c2700 - 3.0V	Climb in visual conditions
RWY		30	
	ft - ft/SM	SID DIDLY	
1+2 ENG		0 - 1.0V	MNM climb gradient 4.6% up to 7800
3+4 ENG		0 - 0.5V	
		All other departures	
1+2 ENG		0 - 1.0V	MNM climb gradient 4.6% up to 7800
3+4 ENG		0 - 0.5V	
All ACFT		c2700 - 3.0V	Climb in visual conditions

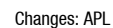
Speed

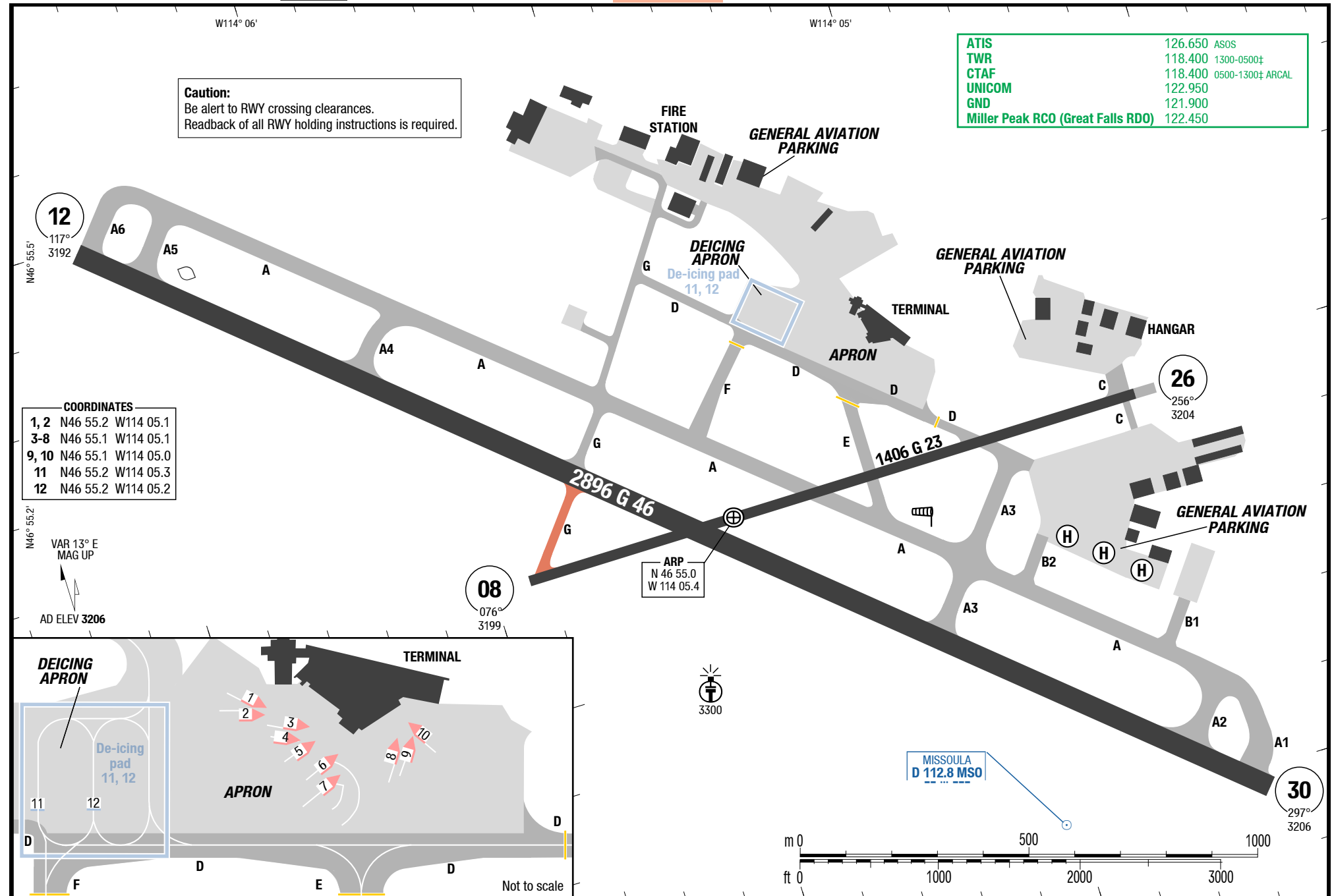
MAX IAS 250KT below 10000ft.

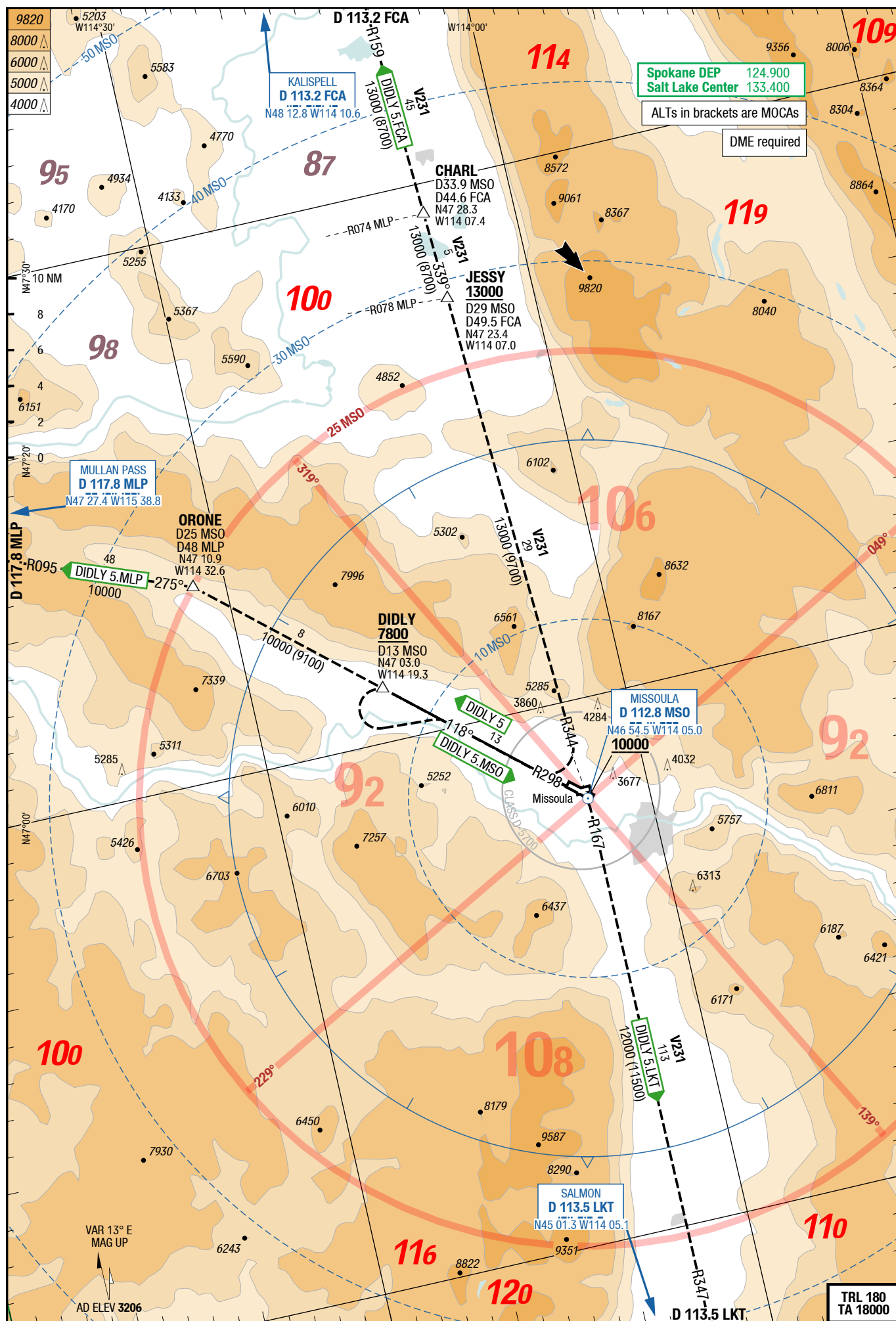
Communication

COM Failure: See CRAR.

AFC

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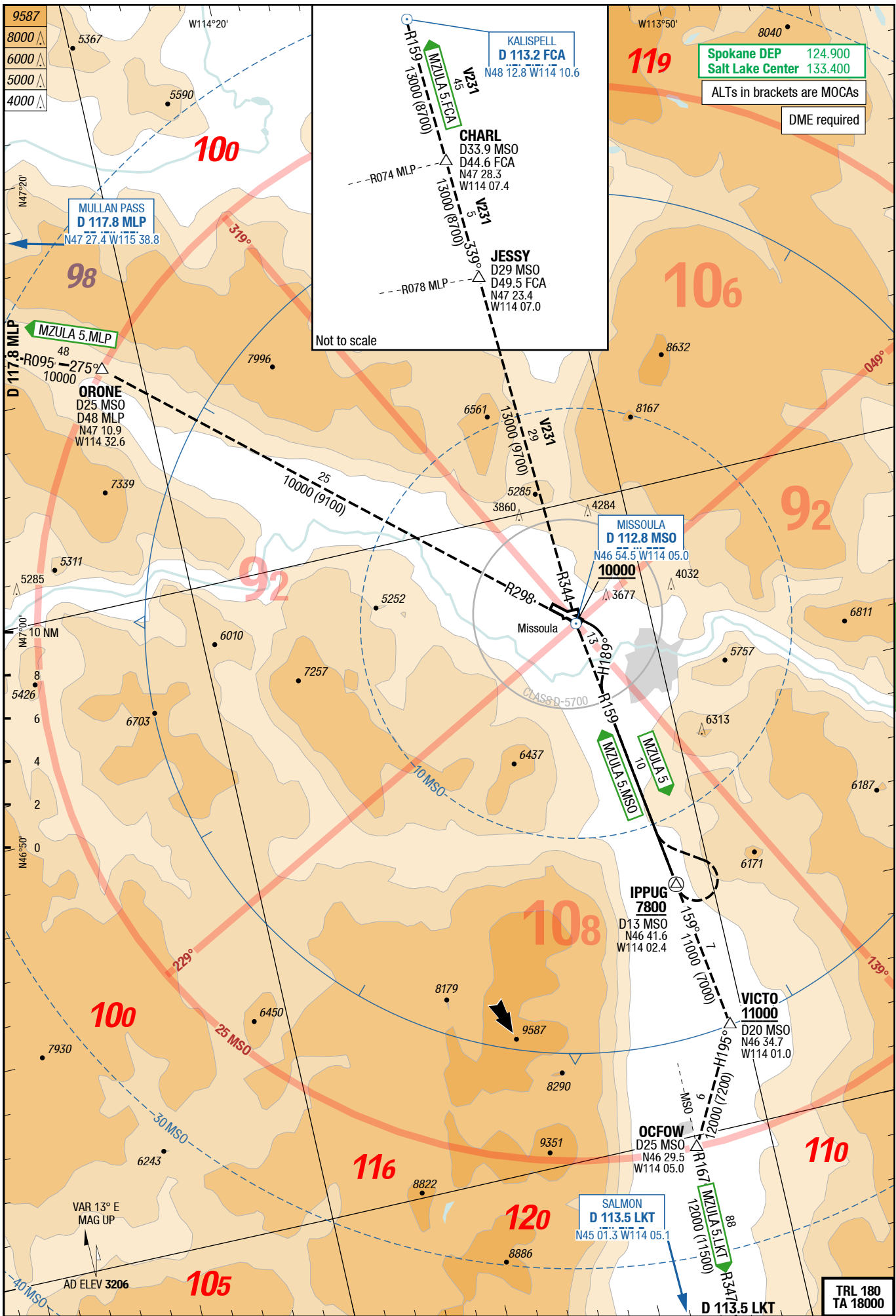
4-20

MZULA 5

SID

SID

MZULA 5



17-MAY-2018

United States **Missoula** Missoula Intl

NIL

SID

SID

Missoula Intl **Missoula** United States

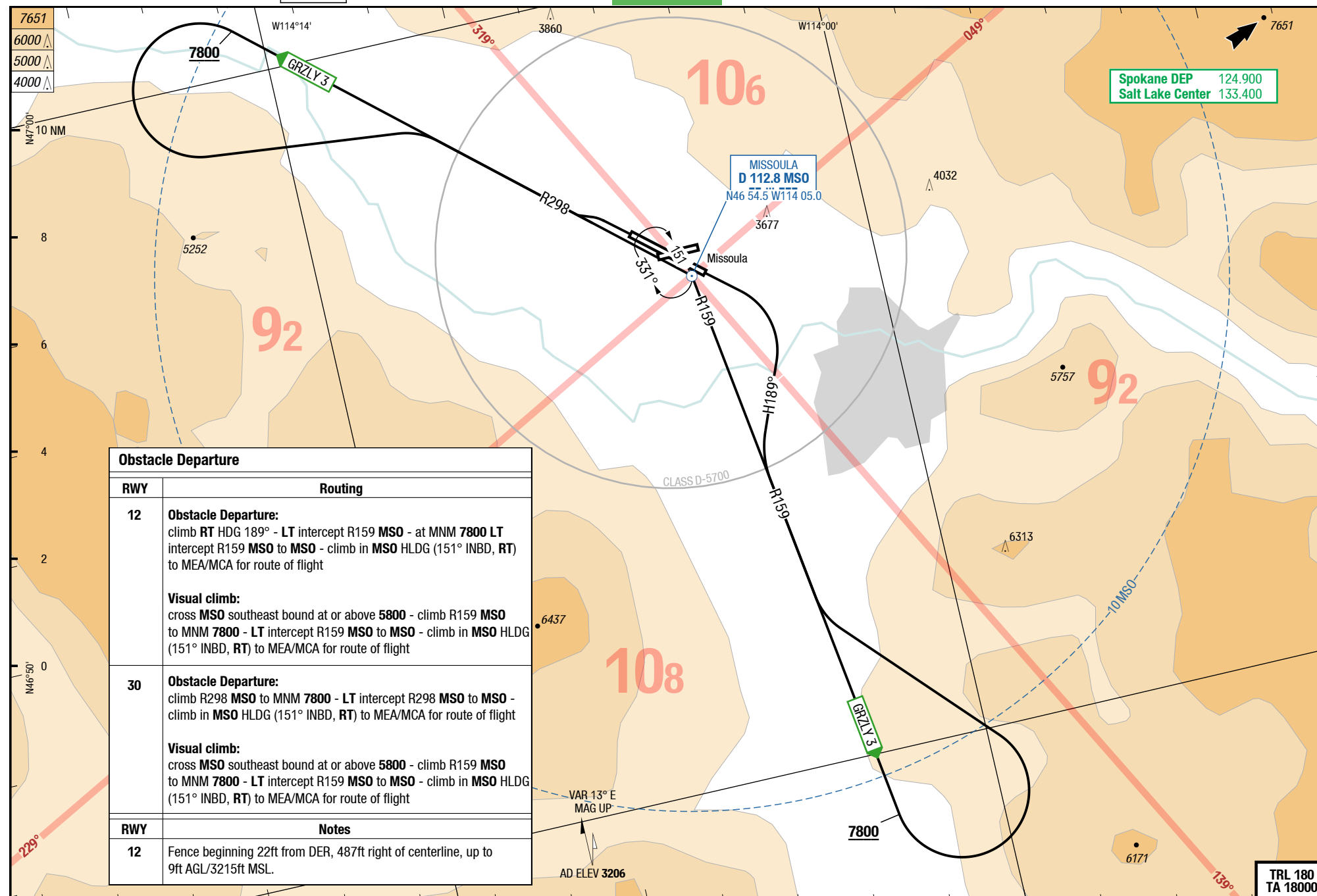
NIL

OBST DEP GRZLY 3

MSO-KMSO

4-30

OBST DEP GRZLY 3



Changes: Track, MSA, OBST, VAR, PROC renumbered, HLDG

MSO-KMSO

5-10

DIDLY 5

DIDLY 5

RWY 30 (297°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 30	
DIDLY 5 124.900	intercept R298 MSO to DIDLY	DIDLY MNM 7800 initial climb 14000
	TRANSITION	
	KALISPELL (FCA) DIDLY - LT intercept R298 MSO to MSO - R344 MSO to JESSY - intercept R159 FCA to FCA	DIDLY MNM 7800 MSO MNM 10000 JESSY MNM 13000
	MISSOULA (MSO) DIDLY - LT intercept R298 MSO to MSO	DIDLY MNM 7800 MSO MNM 10000
	MULLAN PASS (MLP) DIDLY - ORONE - LT intercept R095 MLP to MLP	DIDLY MNM 7800
	SALMON (LKT) DIDLY - LT intercept R298 MSO to MSO - R167 MSO (R347 LKT inbound) to LKT	DIDLY MNM 7800 MSO MNM 10000

MSO-KMSO

5-20

MZULA 5

MZULA 5

RWY 12 (117°)

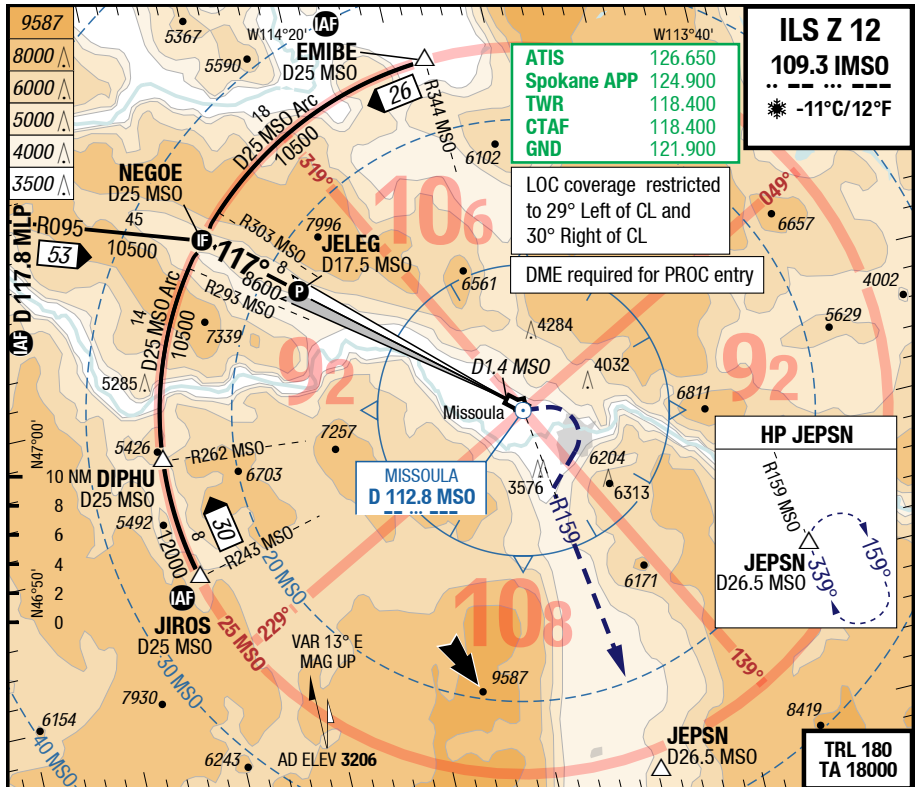
DESIGNATOR	ROUTING	ALTITUDES
	Runway 12	
MZULA 5 124.900	RT HDG 189° - LT intercept R159 MSO to IPPUG	IPPUG MNM 7800 initial climb 14000
	TRANSITION	
	KALISPELL (FCA) IPPUG - LT intercept R159 MSO to MSO - R344 MSO to JESSY - intercept R159 FCA to FCA	IPPUG MNM 7800 MSO MNM 10000
	MISSOULA (MSO) IPPUG - LT intercept R159 MSO to MSO	IPPUG MNM 7800 MSO MNM 10000
	MULLAN PASS (MLP) IPPUG - LT intercept R159 MSO to MSO - R298 MSO to ORONE - LT intercept R095 MLP to MLP	IPPUG MNM 7800 MSO MNM 10000
	SALMON (LKT) IPPUG - VICTO - RT HDG 195° to OCFOW - LT intercept R167 MSO (R347 LKT inbound) to LKT	IPPUG MNM 7800 VICTO MNM 11000

Obstacle Departure	
RWY	Routing
12	Use GRZLY DEPARTURE.
30	Use GRZLY DEPARTURE.

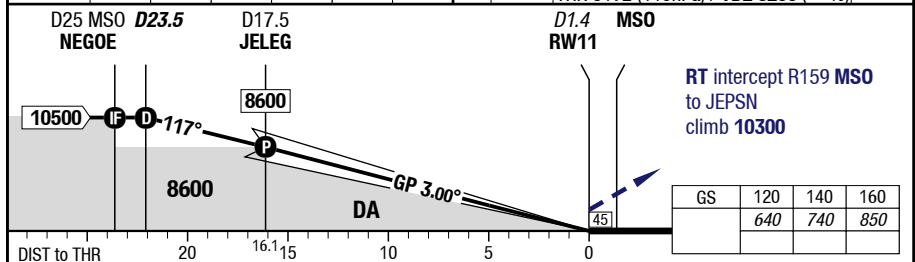
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7-10

ILS Z 12



D MSO	23.5	19	15	11	7	3
	10500	9080	7740	6390	5060	3760



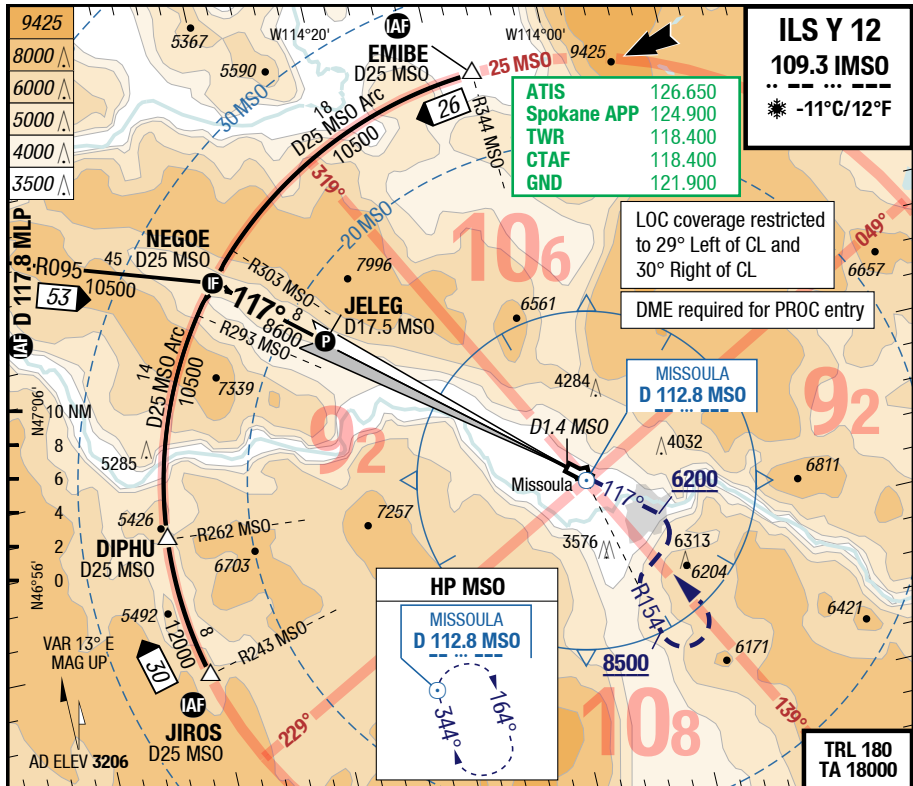
12	Cat 1	LOC	Circling
TERPS	GA 6.8% 1) 2)		Ne TERPS
C	ft - ft/SM 220 - 2400R/0.5V 3420	Not published	Not published
D	ft - ft/SM 220 - 2400R/0.5V 3420	Not published	Not published

1) If unable to comply with climb gradient use ILS YANKEE RWY 12
 2) Up to 9800ft

MSO-KMSO

7-20

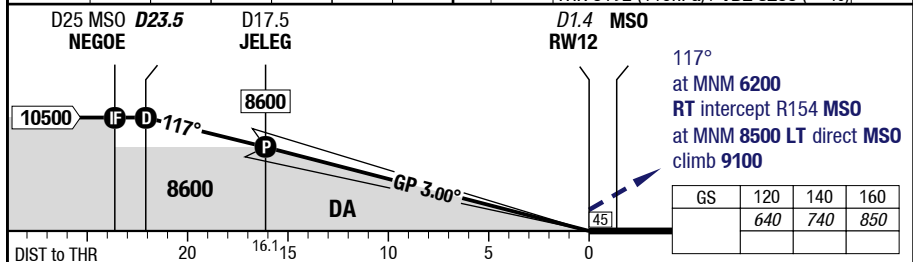
ILS Y 12



D MSO	23.5	19	15	11	9	7
	10500	9080	7740	6390	5720	5060

12 83.0° 2896 G 46 60 HL

ML-P1R THR 3192 (110hPa) / TDZ 3200 (---%) +0.1%



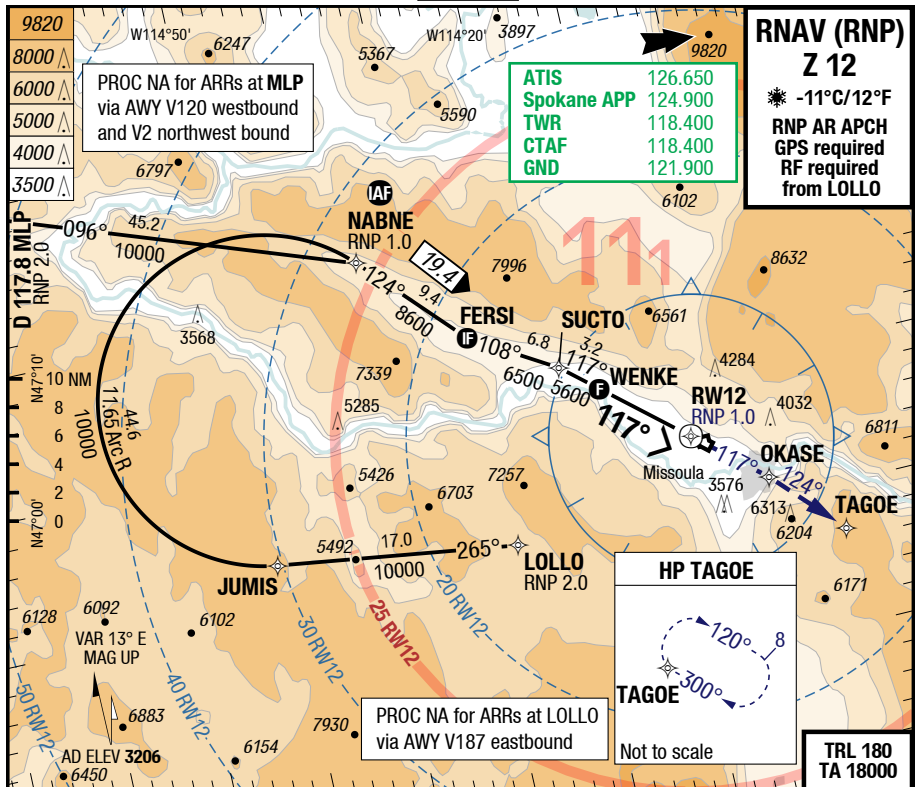
12	Cat 1	LOC	Circling
TERPS	TERPS		
C	ft - ft/SM ft	1830 - 7.0V 5030	Not published
D	ft - ft/SM ft	1830 - 7.0V 5030	Not published

1) INOP table does not apply

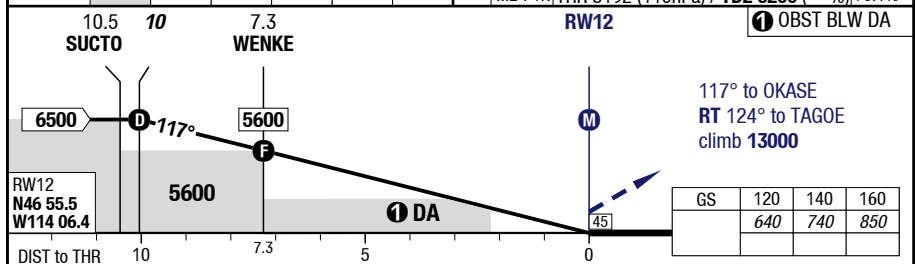
MSO-KMSO

7-30

RNAV (RNP) Z 12



3.00° RW12	10	9	7	5	3	<div> <div>12</div> <div> <div>3.0°</div> <div>60 HL</div> </div> <div> <div>2896 G 46</div> <div>ML-P1R THR 3192 (110hPa) / TDZ 3200 (---%) +0.1%</div> </div> </div>
	6500	6170	5520	4870	4220	



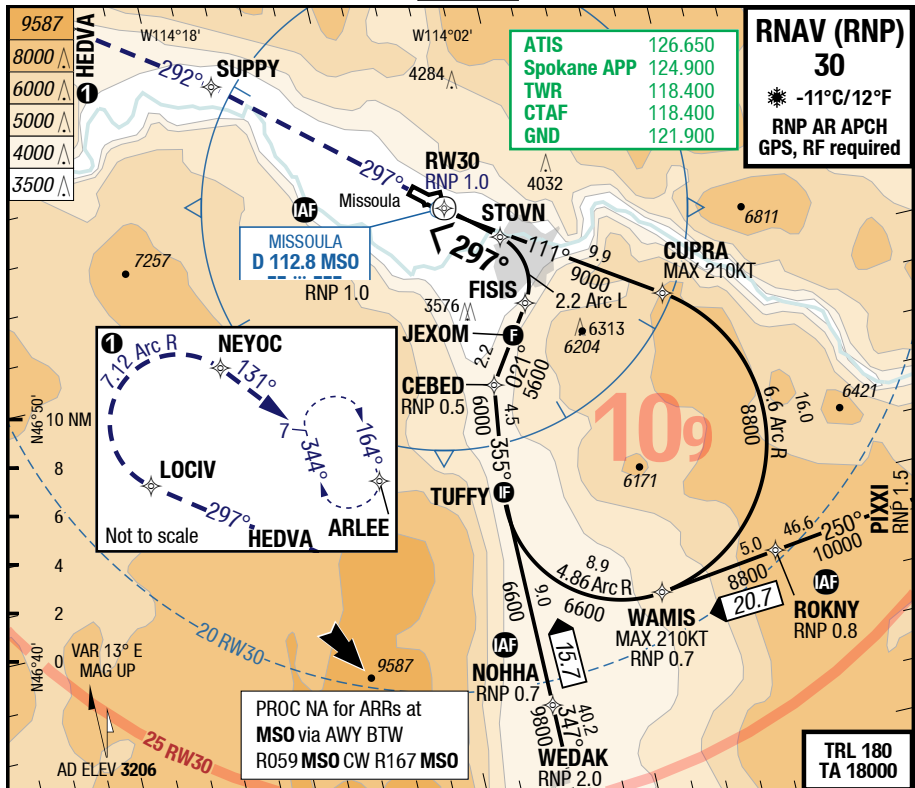
12		RNAV RNP 0.12 VNAV GA 7.0% 1) 2) 3)	RNAV RNP 0.12 VNAV GA 7.0%, APL U/S	RNAV RNP 0.30 VNAV GA 5.8% 1) 2) 3) 4)	RNAV RNP 0.30 VNAV GA 5.8%, APL U/S	Circling <i>New</i> TERPS
C	ft - ft/SM ft	320 - 4000R/0.75V 3520	320 - 6000R/1.25V 3520 1) 2) 3)	680 - 2.0V 3880	680 - 2.5V 3880 1) 2) 3) 4)	
D	ft - ft/SM ft	320 - 4000R/0.75V 3520	320 - 6000R/1.25V 3520 1) 2) 3)	680 - 2.0V 3880	680 - 2.5V 3880 1) 2) 3) 4)	Not published

1) Uncompensated BARO VNAV NA below -21°C (-6°F) or above 43°C (109°F) 2) Use with Missoula Intl (KMSO) only 3) Up to 8300 ft 4) If unable see RNAV GPS YANKEE RWY 12

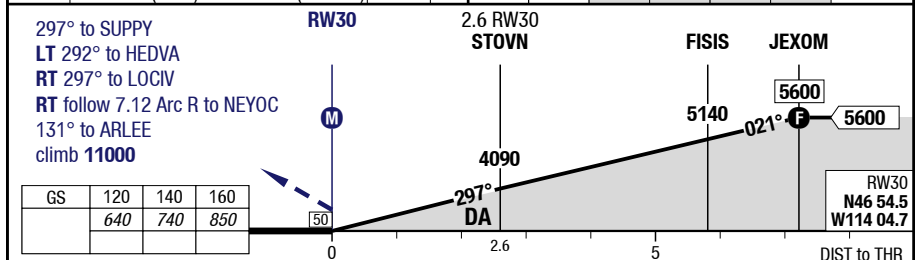
MSO-KMSO

7-40

RNAV (RNP) 30



60 HL	46 G 2896	3.0°	2	2.6	3.00°
-0.1% TDZ 3206 (---%) / THR 3206 (111hPa)			3910	4090	RW30



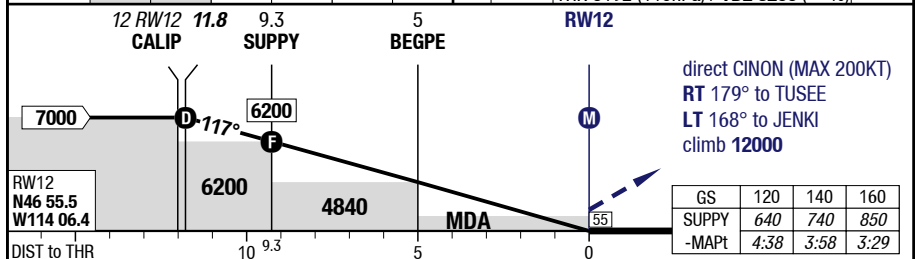
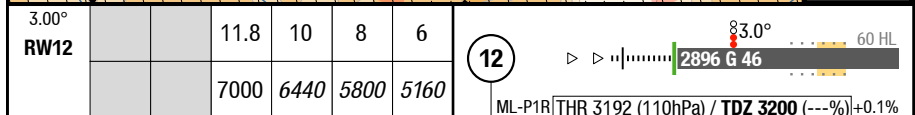
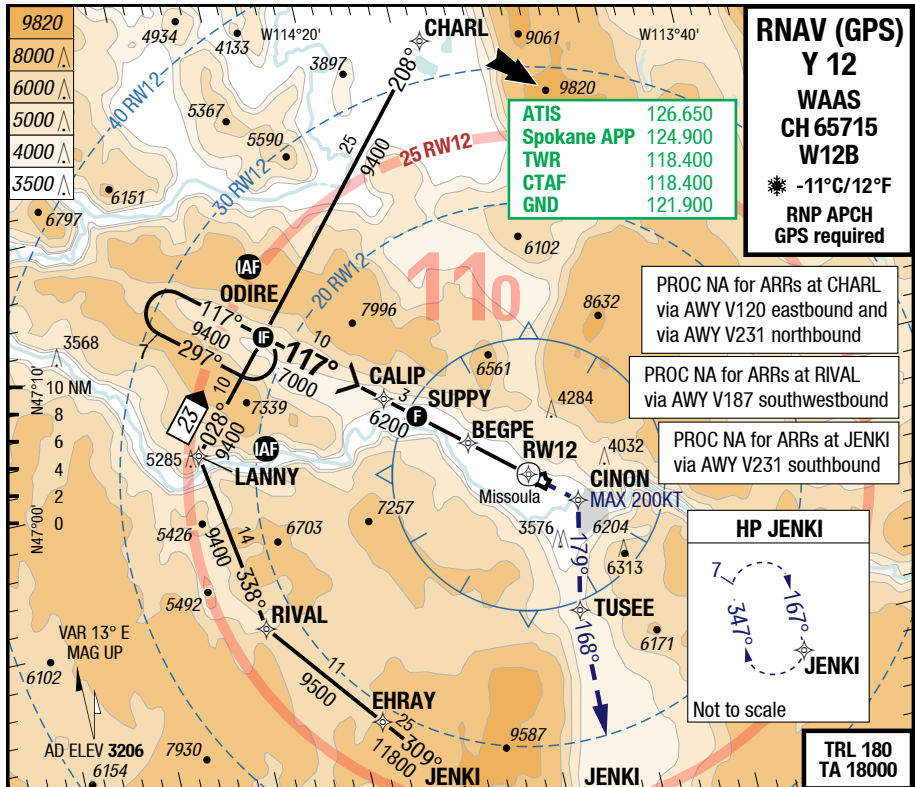
TERPS	30	RNAV RNP 0.30 VNAV GA 3.6% 1) 2) 3)	RNAV RNP 0.30 VNAV GA 3.3% 1) 2)	Circling New TERPS
C	ft - ft/SM ft	320 - 1.0V 3530	380 - 1.25V 3590	Not published
D	ft - ft/SM ft	320 - 1.0V 3530	380 - 1.25V 3590	Not published

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 43°C (109°F) 2) Use with Missoula Intl (KMSO) only 3) Up to 5000 ft

MSO-KMSO

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RNAV (GPS) Y 12



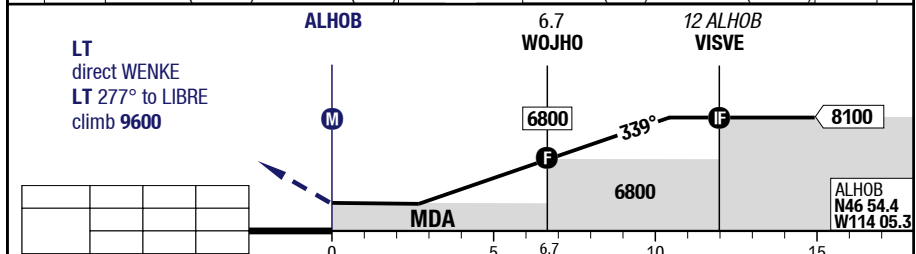
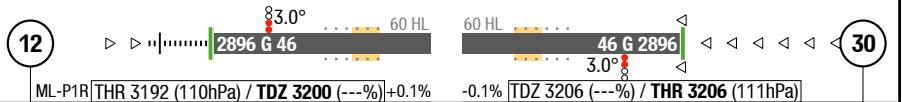
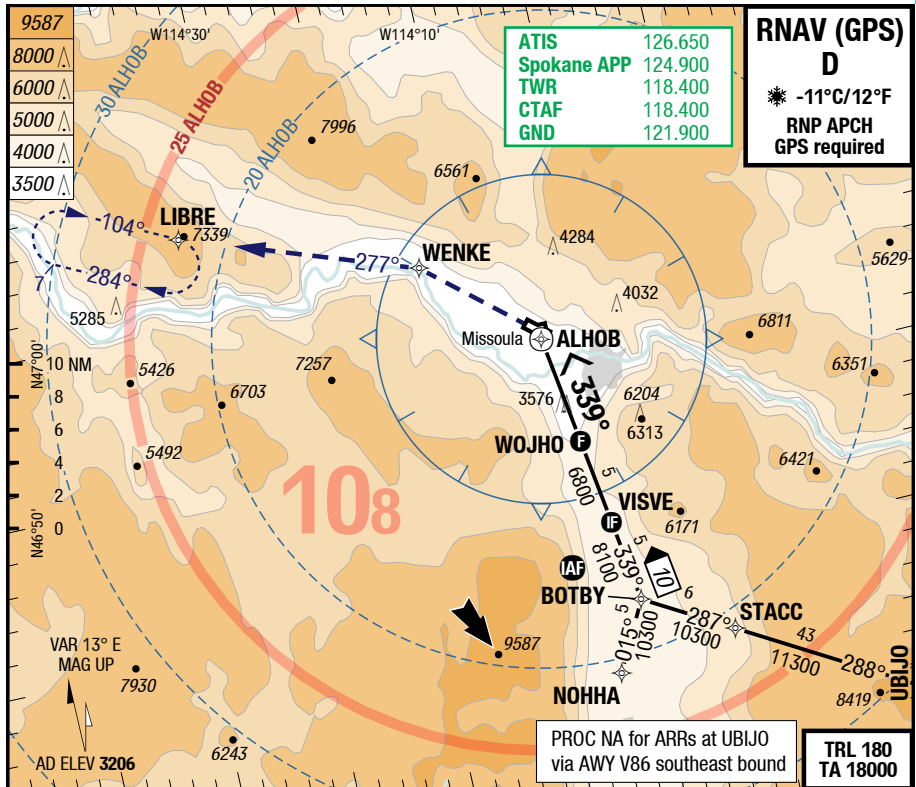
12		RNAV GPS LPV GA 5.4% 1) 2)	RNAV GPS LPV GA 3.3% 3)	RNAV GPS LNAV GA 5.4% 2)	RNAV GPS LNAV GA 3.3%	Circling 4)
TERPS						Ne TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 3400	1030 - 4.0V 4230	440 - 4500R/0.88V 3640	1320 - 3.0V 4520	1500 - 4.0V 4700
D	ft - ft/SM ft	200 - 1800R/0.5V 3400	1030 - 4.0V 4230	440 - 4500R/0.88V 3640	1320 - 3.0V 4520	1940 - 4.0V 5140

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM 3) INOP table does not apply
 2) Up to 7700 ft 4) SW of RWY 12/30 only

MSO-KMSO

7-60

RNAV (GPS) D



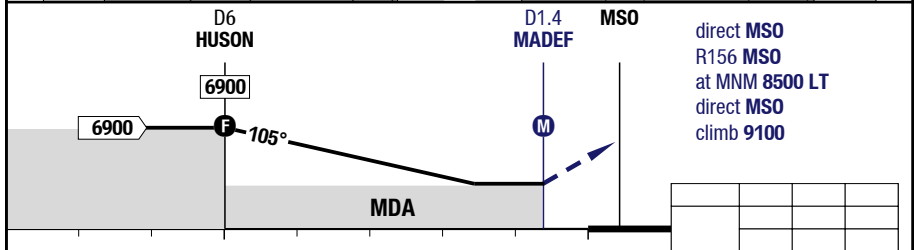
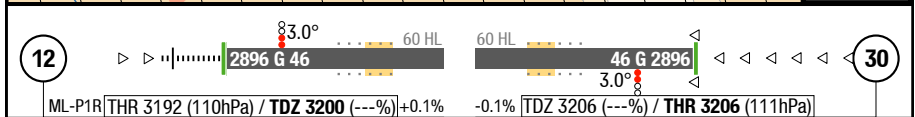
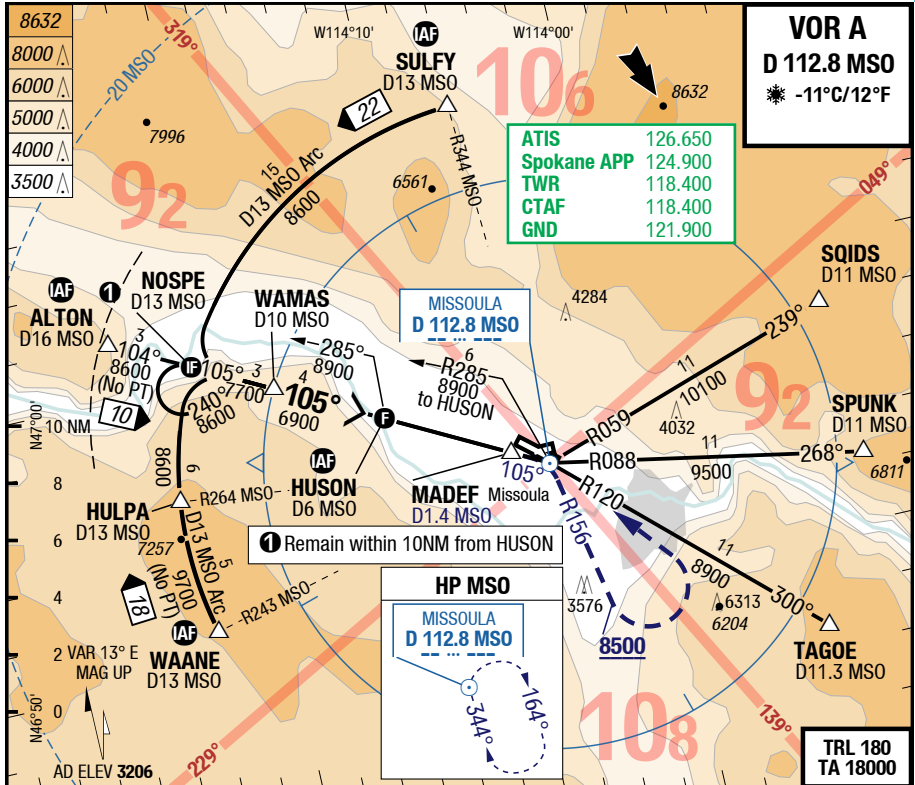
12/30						Circling 1) TERPS	
C	ft - ft/SM ft					1500 - 3.0V 4700	
D	ft - ft/SM ft					1940 - 3.0V 5140	

1) SW of RWY 12/30 only

MSO-KMSO

7-70

VOR A



12/30					Circling	
TERPS					TERPS	
C	ft - ft/SM				1920 - 3.0V	5120
D	ft - ft/SM				1960 - 3.0V	5160

MSO-KMSO

7-80

VOR B

