

GENERAL**Operational Hours****ATS Hours:** TWR H24**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA INDEX C / CAT 7**Fuel:** Jet A**Customs:** SAT, SUN, HOL and night 3HR PN, requests shall be made MON-FRI 1430-2300±.**PCN:** RWY 05/23: 34/R/B/W/T
RWY 13/31: 67/R/B/W/U**Operation****Traffic Note**

Surface Movement Guidance and Control System (SMGCS): This system consists of the provisions for guidance, control or regulation, to safe OPS of ACFT, GND vehicle and personnel on the AD during LVP.

Taxi/Parking

All FBO ramps: MAX ACFT weight 45.3t / 100000lbs.

Taxiing on terminal APN between TWY E and TWY F prohibited.

VOR TEST FACILITY (VOT): 109.2**Warnings****DSM VOR** unusable: R095-R150.

Use caution during landing due to raised lights in the overruns and RWY THR.

Birds in vicinity of AD.

Speed

MAX IAS 250KT below 10000ft.

Communication**COM Failure:** See CRAR United States.**Arrival Procedure****VFR Traffic Pattern:** RWY 31 right-hand circuit.**Land And Hold Short Operation (LAHSO)**

These OPS include LDG and hold short of an intersection RWY/TWY or other predetermined points on the RWY, other than RWY or TWY marked with (*).

LDG RWY	Hold Short Point (HSP)	Distance
RWY 05	RWY 13/31	1935m / 6350ft
RWY 13	RWY 05/23	1814m / 5950ft

Warnings**ILS/DME RWY 05:** GS unusable for coupled APCH below 1256ft.

DEPARTURE**Take-off Minima**

RWY		05, 13/31	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	-
RWY		23	
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

Contact GND control prior push-back on terminal APN.

Noise Abatement Procedure: RWY 23: Do not overfly lake 1.5NM SW of AD.

De-icing

Terminal ramp all gates:

De-icing before push-back unless approved by AD.

Effective 01-FEB-2018

25-JAN-2018

DSM-KDSM

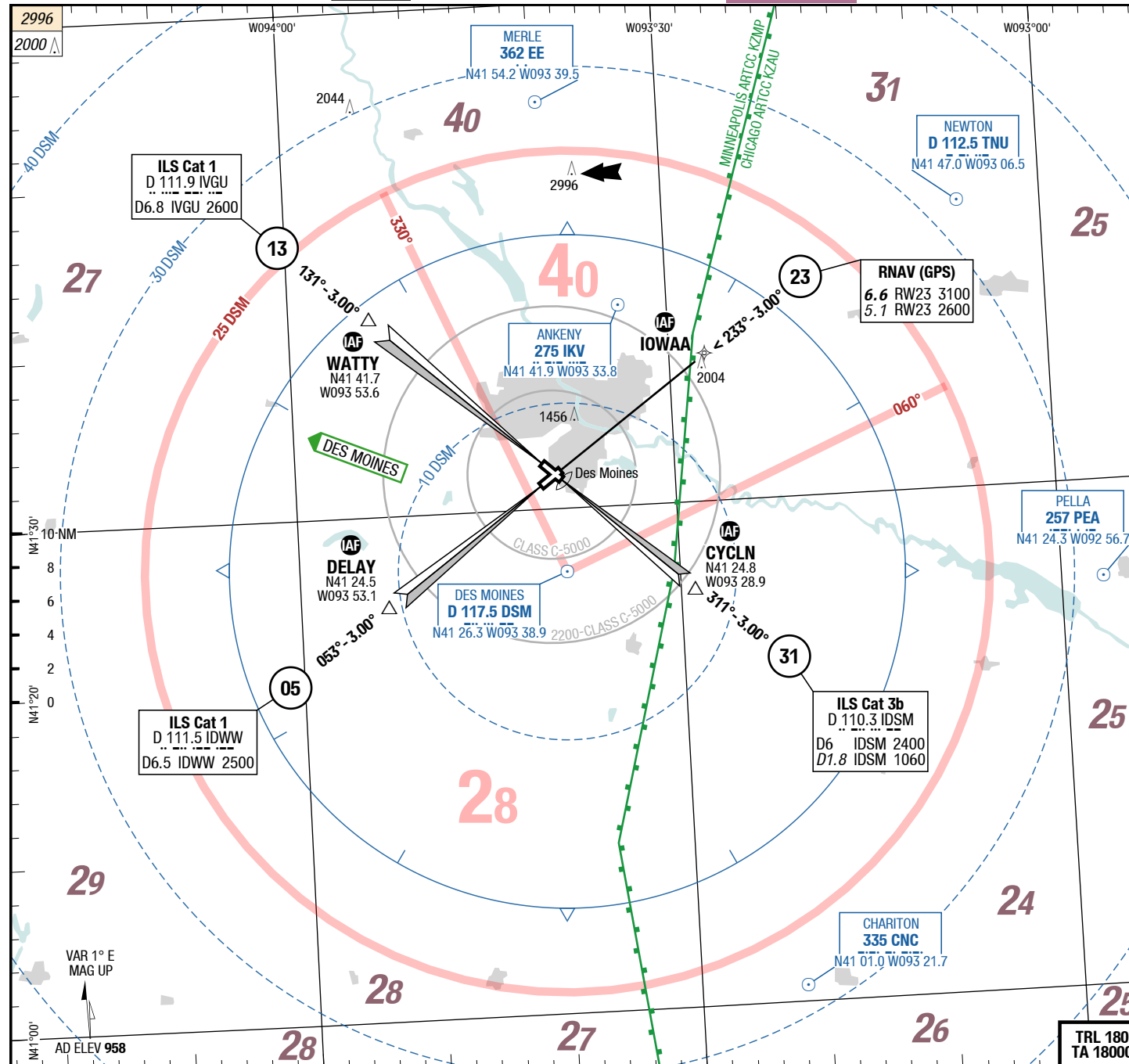
United States Des Moines Des Moines Intl

AGC
AFC

Des Moines Intl Des Moines United States

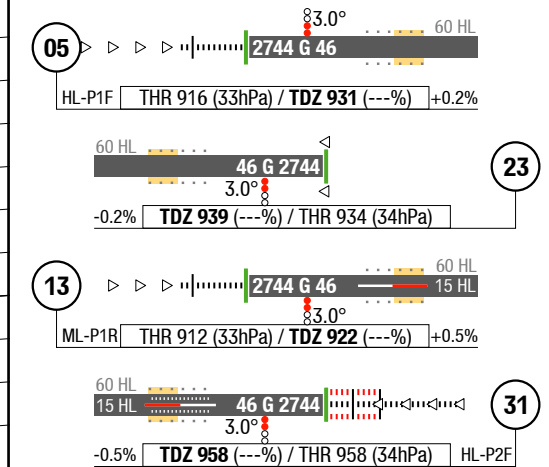
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2-10



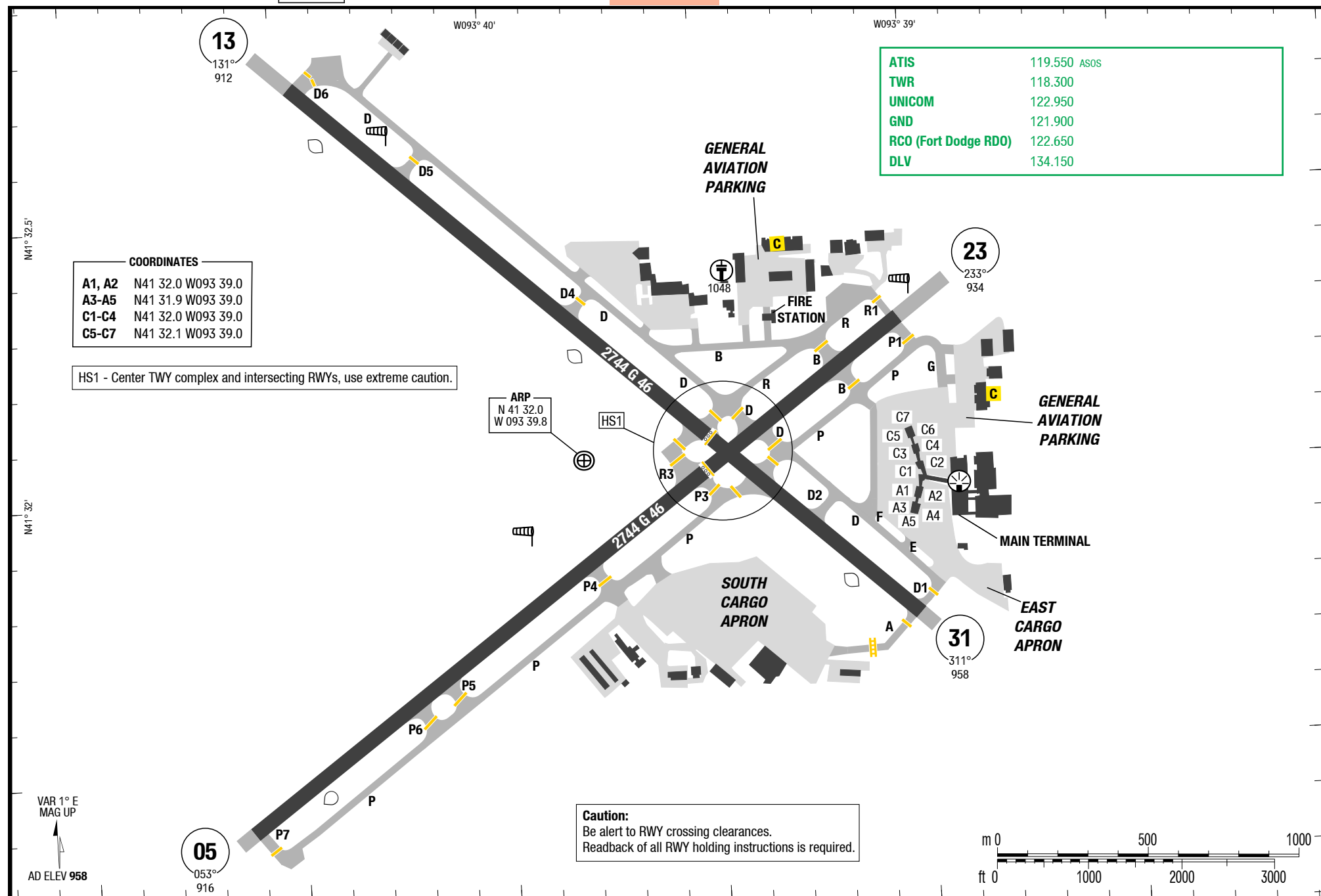
ATIS 119.550 ASOS
APP 123.900
DEP 123.900 East
135.200 West
TWR 118.300
UNICOM 122.950
GND 121.900
RCO (Fort Dodge RDO) 122.650
DLV 134.150

Landing RWY system:



Changes: FAT, VAR, OBST, APCH boxes, IM, OM

3-20



Effective 01-FEB-2018

25-JAN-2018

DSM-KDSM

United States Des Moines Des Moines Intl

NIL
LVC

LVC

LVC

Des Moines Intl Des Moines United States

NIL
LVC

3-30

RVR LESS THAN 1200ft to 600ft

ATIS	119.550 ASOS
TWR	118.300
UNICOM	122.950
GND	121.900
RCO (Fort Dodge RDO)	122.650
DLV	134.150

HS1 - Center TWY complex and intersecting RWYs, use extreme caution.
HS2 - The AER of RWY 05 at TWY P has LTD VIS from TWR.

ARP
N 41 32.0
W 093 39.8

Caution:
Be alert to RWY crossing clearances.
Readback of all RWY holding instructions is required.

VAR 1° E
MAG UP

AD ELEV 958



Changes: QFU, VAR

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25-JAN-2018

United States **Des Moines** Des Moines IntlDes Moines Intl **Des Moines** United States

DSM-KDSM

4-10

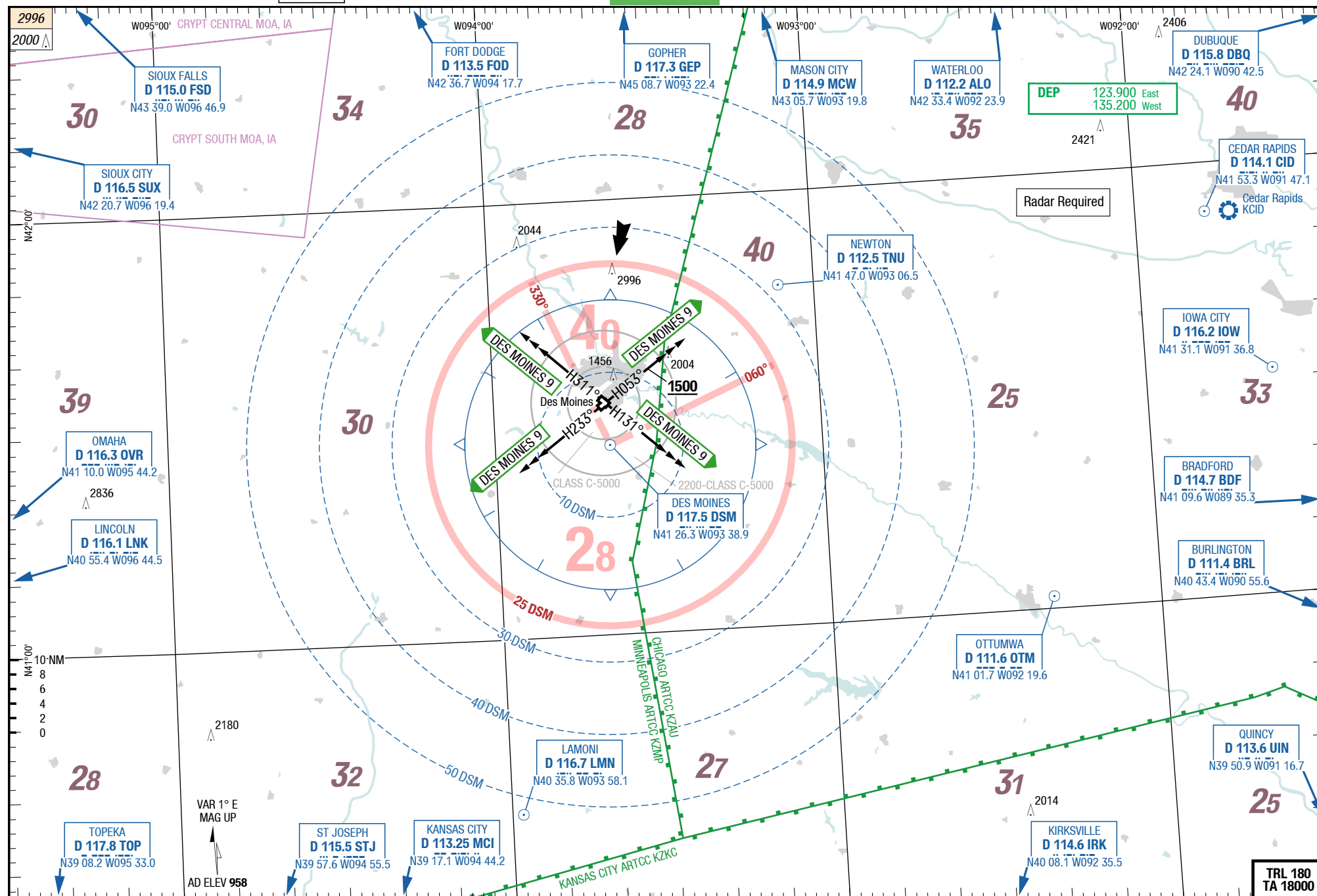
DES MOINES 9 (DSM 9)

SID

DIS

NIL

DES MOINES 9 (DSM 9)



Changes: Track, NAVAID, VAR, Note, OBST, PROC renumbered

DSM-KDSM

5-10

DES MOINES 9 (DSM 9)

DES MOINES 9

RWYs 05 (053°) / 13 (131°) / 23 (233°) / 31 (311°)

DESIGNATOR	ROUTING	ALTITUDES
DES MOINES 9 DSM 9 123.900 (East) 135.200 (West) ①		
		initial climb 5000
RWY 05	HDG 053° - at MNM 1500 LT - expect radar vectors to assigned route/fix	
RWY 13	HDG 131° - expect radar vectors to assigned route/fix	
RWY 23	HDG 233° - expect radar vectors to assigned route/fix	
RWY 31	HDG 311° - expect radar vectors to assigned route/fix	

① Expect clearance to filed altitude 10 minutes after departure.

DSM-KDSM

5-30

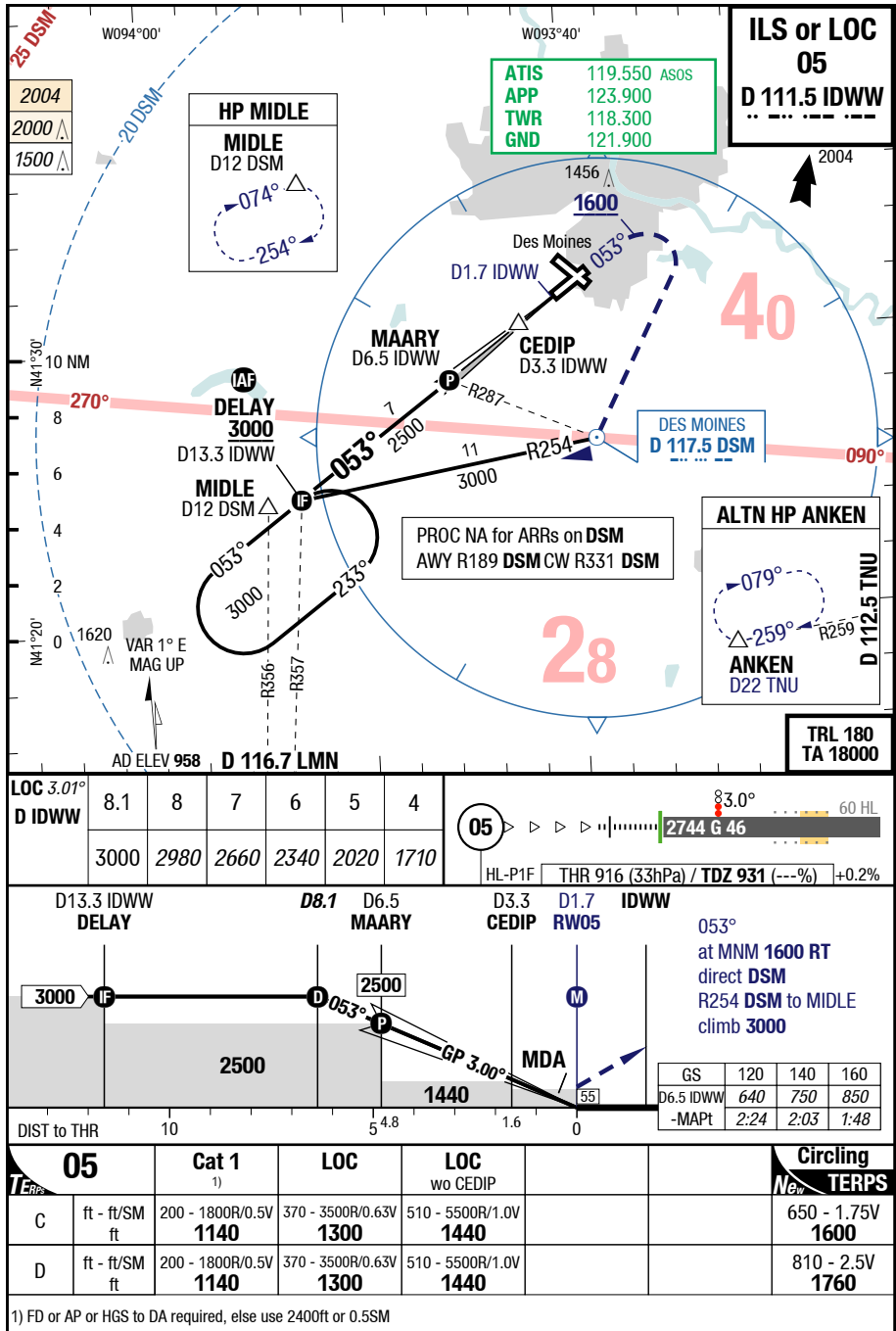
Obstacle Departure

Obstacle Departure	
RWY	Routing
05	HDG 053° to MNM1500 before LT
RWY	Notes
05	NAVAID 40ft from DER, 115ft left of centerline, 4ft AGL/936ft MSL. Terrain 233ft from DER, 503ft left of centerline, 941ft MSL. Fence 623ft from DER, 589ft left of centerline, 8ft AGL/951ft MSL. Vehicle on road 934ft from DER, 669ft left of centerline, 959ft MSL. Tree and pole beginning 986ft from DER, 400ft left of centerline, up to 1020ft MSL. Pole 2280ft from DER, 364ft right of centerline, 71ft AGL/1001ft MSL. Tree and pole beginning 2312ft from DER, 377ft right of centerline, up to 1004ft MSL. Trees beginning 2341ft from DER, 566ft right of centerline, up to 1015ft MSL. Tree 2432ft from DER, 881ft right of centerline, 1018ft MSL. Trees beginning 2453ft from DER, 566ft right of centerline, up to 1020ft MSL. Trees beginning 2609ft from DER, 614ft right of centerline, up to 1026ft MSL. Trees beginning 3175ft from DER, 218ft right of centerline, up to 1048ft MSL. Tree 3567ft from DER, 1042ft left of centerline, 1035ft MSL. Trees beginning 3572ft from DER, 37ft left of centerline, up to 1038ft MSL.
13	Tree 1427ft from DER, 830ft left of centerline, 1002ft MSL. Tree 1830ft from DER, 918ft right of centerline, 1017ft MSL. Tree 2970ft from DER, 1142ft left of centerline, 1033ft MSL.
23	Vehicle on road beginning 199ft from DER, 30ft right of centerline, up to 930ft MSL.
31	Tree 2508ft from DER, 907ft right of centerline, 977ft MSL.

DSM-KDSM

7-10

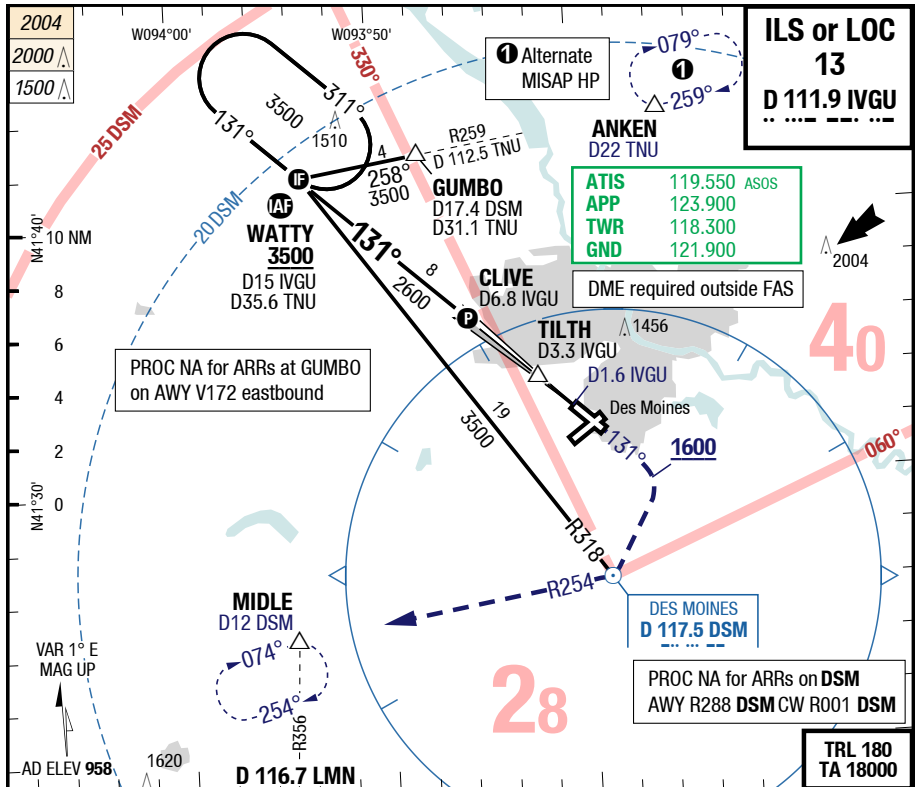
ILS or LOC 05



DSM-KDSM

7-20

ILS or LOC 13

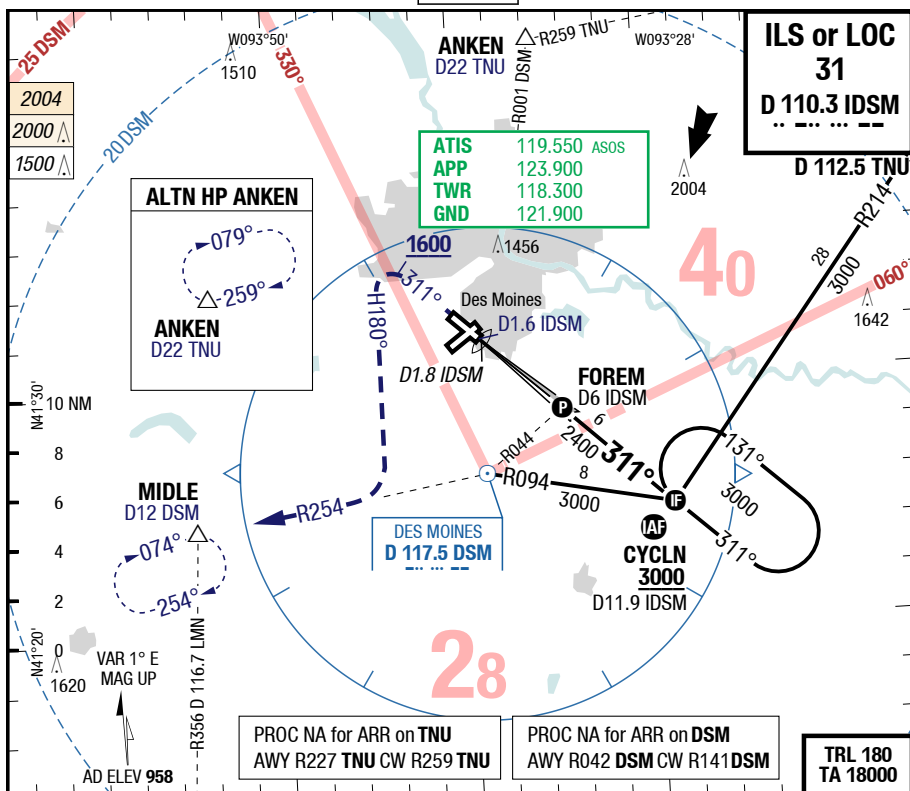


LOC 3.01° D IVGU						9.6	7	6	5	4	3	13	▶ ▶ ▶ 2744 G 46	60 HL 15 HL		
						3500	2680	2360	2040	1720	1400				83.0°	
						ML-P1R THR 912 (33hPa) / TDZ 922 (---%)						+0.5%				
D15 IVGU WATTY						D9.6			D6.8 CLIVE		D3.3 TILTH		D1.6 RW13		IVGU	
3500 IF						2600 D			131°		2600 P		M		131° at MNM 1600 RT direct DSM R254 DSM to MIDLE climb 3000	
2600						GP 3.00°			MDA		56					
DIST to THR						10			5.15		1.7		0			
						1440										
															</	

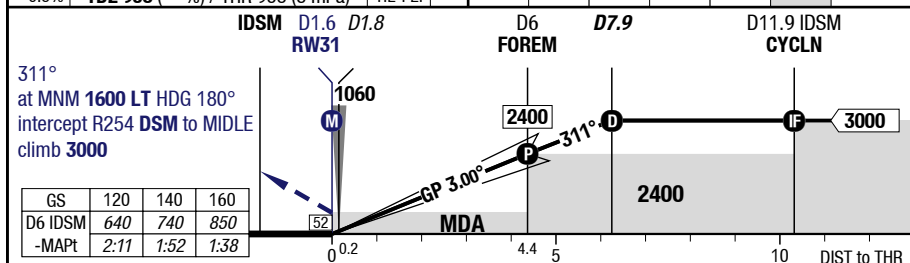
DSM-KDSM

7-30

ILS or LOC 31



60 HL	46 G 2744	31	3	4	5	7	7.9	LOC 3.00° D IDSM
15 HL	3.0°		1460	1770	2090	2730	3000	
-0.5%	TDZ 958 (---%) / THR 958 (34hPa)	HL-P2F						

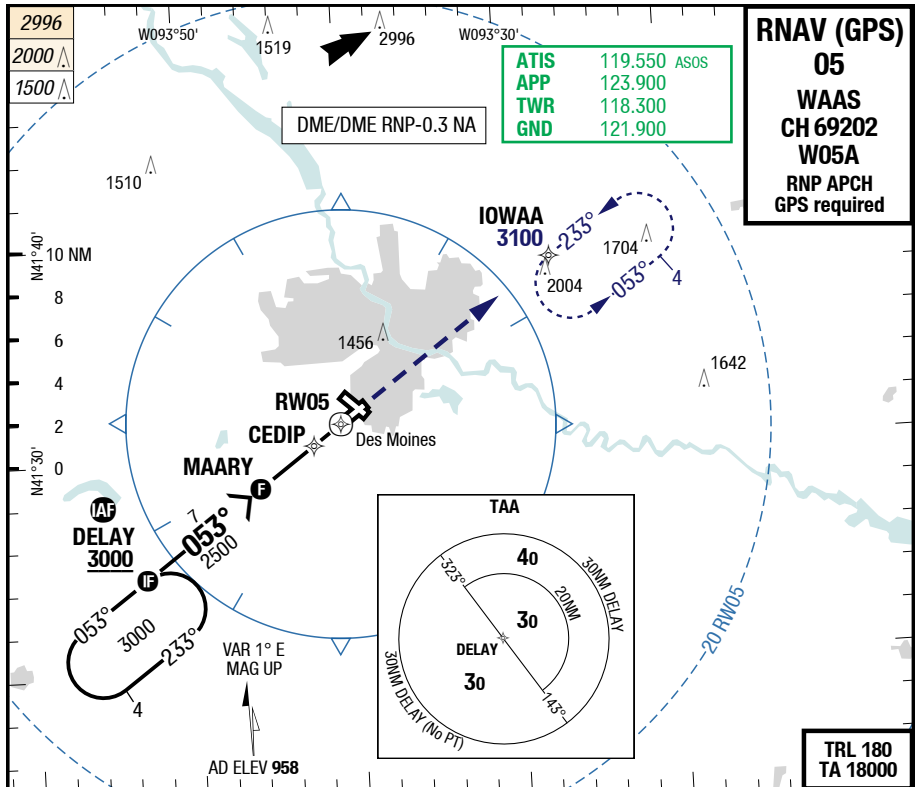


31		Cat 3b	Cat 2	Cat 1	LOC	Circling TERPS
C	ft - ft/SM ft	0 - 600R Company	100 - 1200R 101 RA	200 - 1800R/0.5V 1160	390 - 3500R/0.63V 1340	650 - 1.5V 1600
D	ft - ft/SM ft	0 - 600R Company	100 - 1200R 101 RA	200 - 1800R/0.5V 1160	390 - 3500R/0.63V 1340	810 - 2.5V 1760

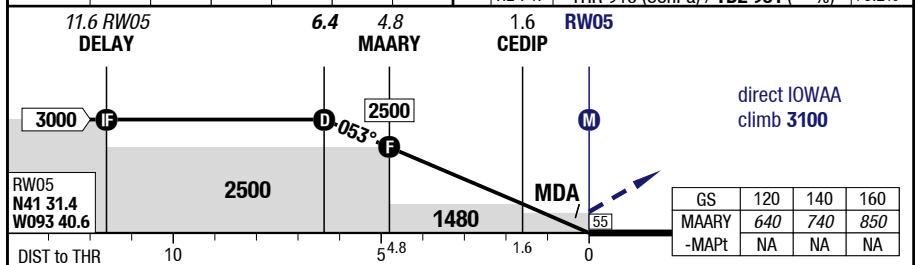
DSM-KDSM

7-50

RNAV (GPS) 05



3.00° RW05	6.4	6	5	4	3	2	05	83.0°	60 HL
	3000	2890	2570	2250	1930	1610		2744 G 46	
	HL-P1F						THR 916 (33hPa) / TDZ 931 (---%)	+0.2%	



TERPS	05	RNAV GPS LPV ¹⁾	RNAV GPS VNAV ²⁾	RNAV GPS VNAV APL U/S ²⁾	RNAV GPS LNAV	Circling
C	ft - ft/SM ft	200 - 1800R/0.5V 1140	430 - 4500R/0.88V 1360	430 - 1,38V 1360	390 - 3500R/0.63V 1320	650 - 1.75V 1600
D	ft - ft/SM ft	200 - 1800R/0.5V 1140	430 - 4500R/0.88V 1360	430 - 1,38V 1360	390 - 3500R/0.63V 1320	810 - 2.5V 1760

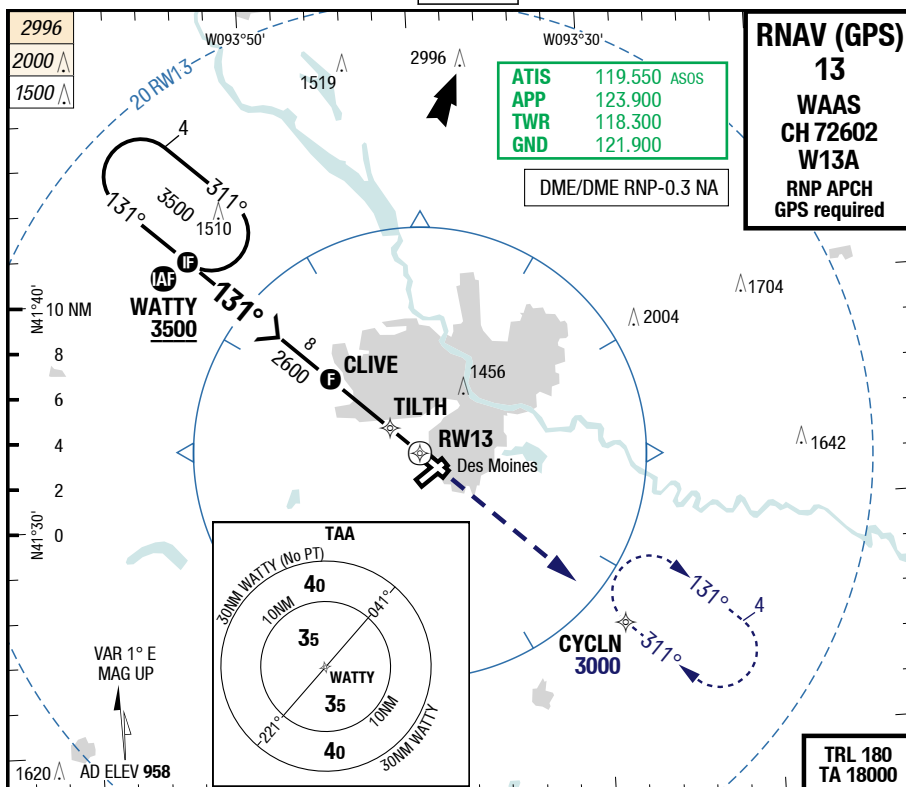
1) FD or AP or HGS to DA required, else use 2400ft or 0.5SM

2) Uncompensated BARO VNAV NA below -19°C (-2°F) or above 54°C (130°F)

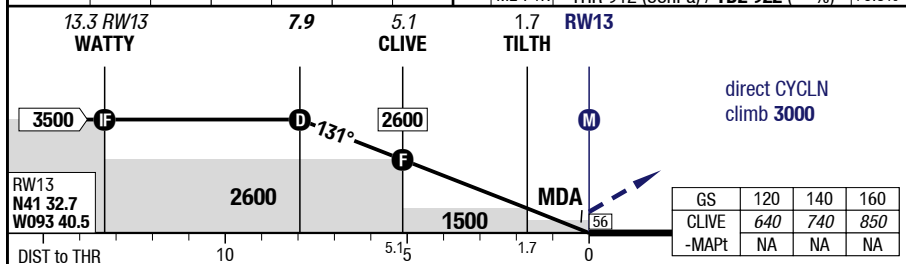
DSM-KDSM

7-60

RNAV (GPS) 13



3.00° RW13	7.9	5	4	3	2	1	13	ML-P1R	THR 912 (33hPa) / TDZ 922 (---%)	+0.5%
	3500	2560	2250	1930	1610	1290				



TERP	13	RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1130	250 - 2400R/0.5V 1180	320 - 2400R/0.5V 1240	650 - 1.75V 1600
D	ft - ft/SM ft	200 - 1800R/0.5V 1130	250 - 2400R/0.5V 1180	320 - 2400R/0.5V 1240	810 - 2.5V 1760

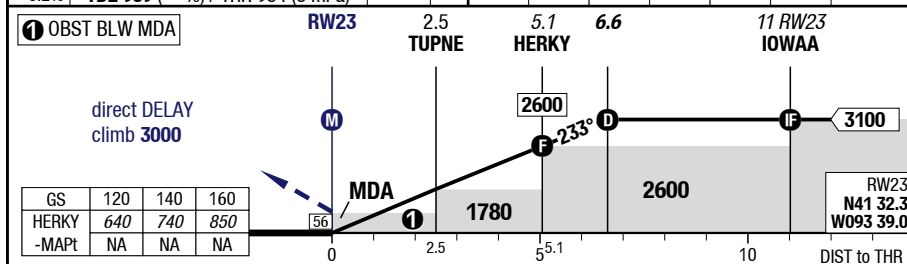
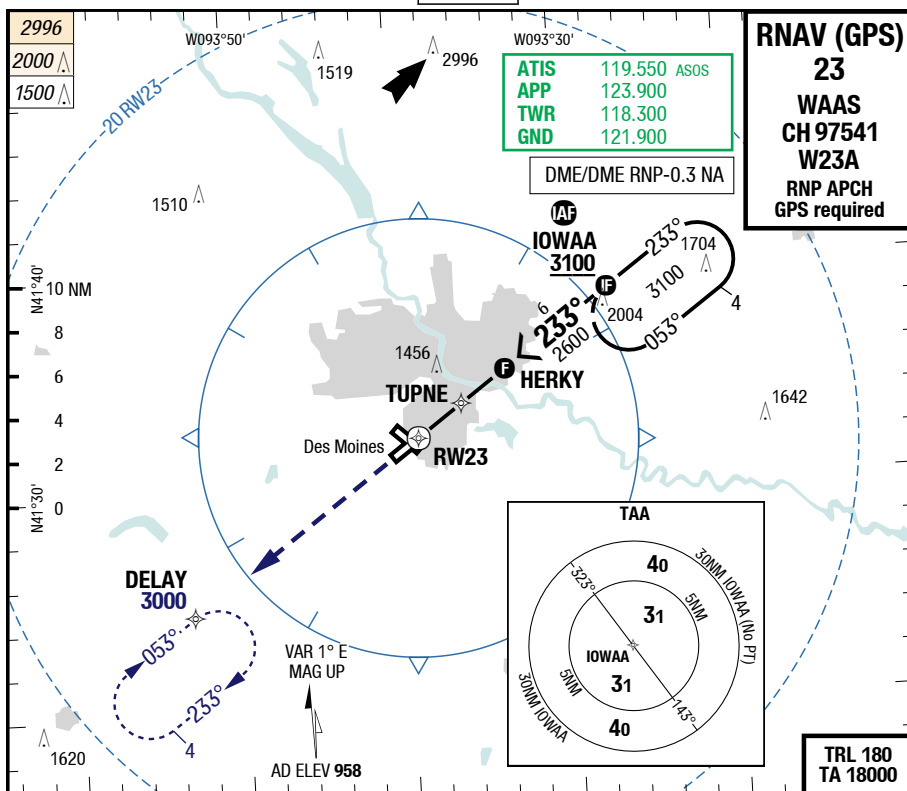
1) FD or AP or HGS to DA required, else use 2400ft or 0.5SM

2) Uncompensated BARO VNAV NA below -19°C (-2°F) or above 54°C (130°F)

DSM-KDSM

7-70

RNAV (GPS) 23



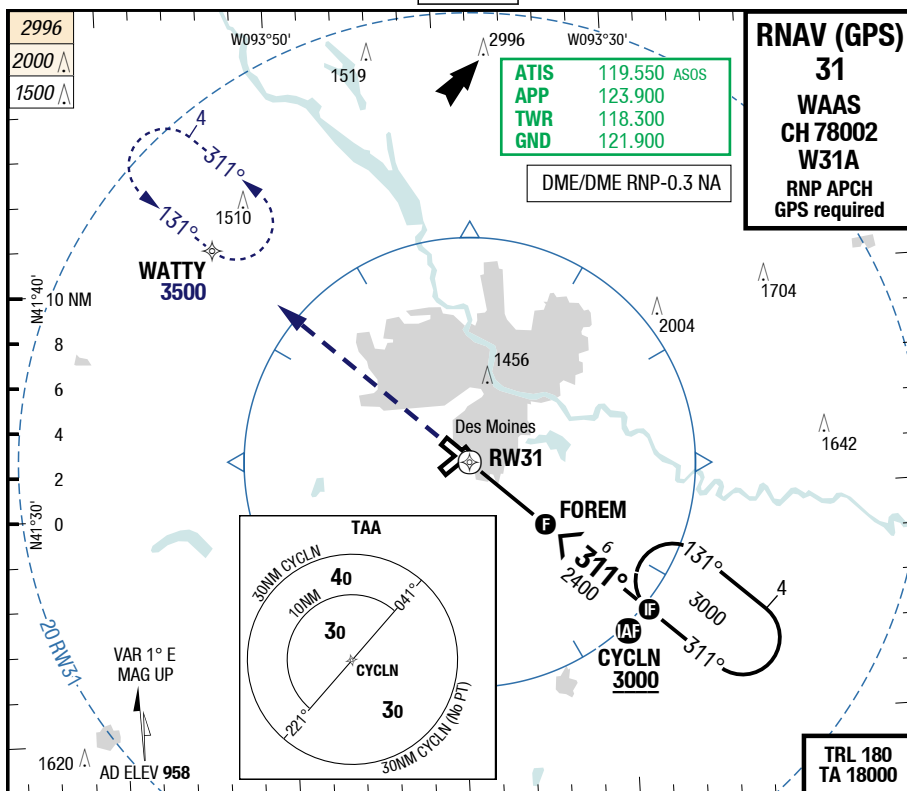
23		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV		Circling TERPS
C	ft - ft/SM ft	330 - 1.0V 1270	310 - 0.88V 1250	390 - 1.13V 1320		650 - 1.75V 1600
D	ft - ft/SM ft	330 - 1.0V 1270	310 - 0.88V 1250	390 - 1.13V 1320		810 - 2.5V 1760

1) Uncompensated BARO VNAV NA below -19°C (-2°F) or above 54°C (130°F)

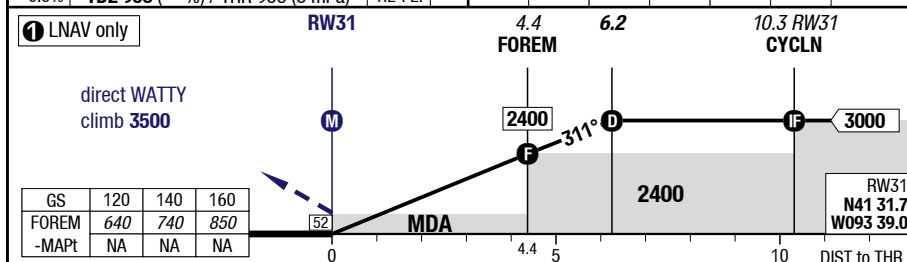
DSM-KDSM

7-80

RNAV (GPS) 31



60 HL	46 G 2744	31	1	2	3	4	5	6.2	3.00°
15 HL	3.0°		1330	1650	1970	2290	2610	3000	RW31
-0.5%	TDZ 958 (---%) / THR 958 (34hPa)	HL-P2F							



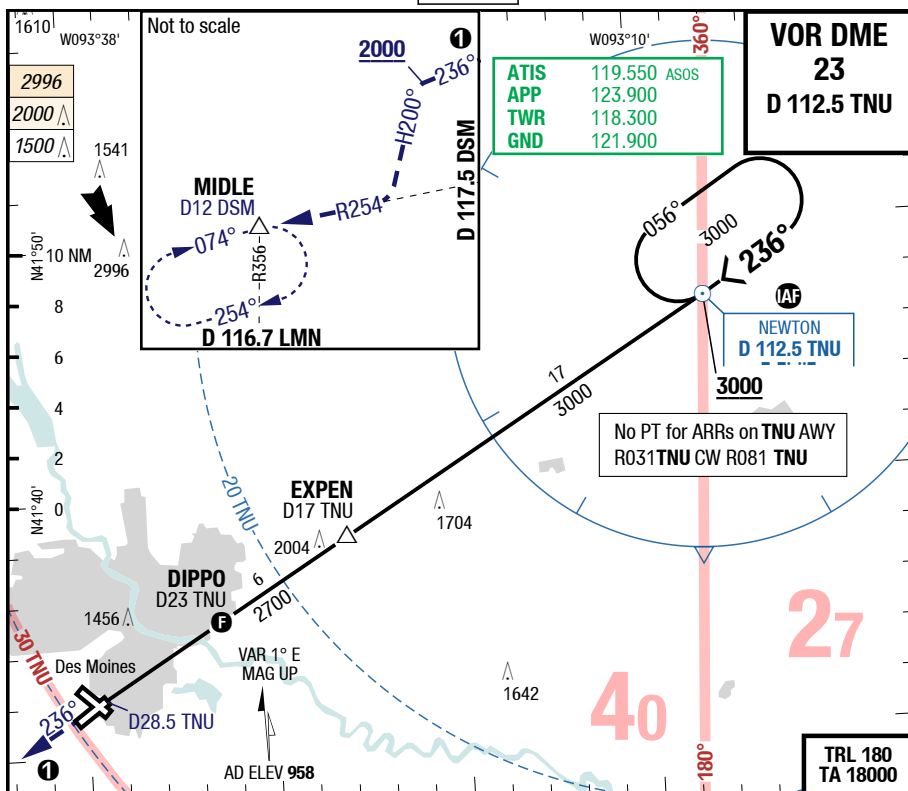
31		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV			Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1160	400 - 3500R/0.63V 1360	370 - 3500R/0.63V 1320			650 - 1.75V 1600
D	ft - ft/SM ft	200 - 1800R/0.5V 1160	400 - 3500R/0.63V 1360	370 - 3500R/0.63V 1320			810 - 2.5V 1760

1) Uncompensated BARO VNAV NA below -20°C (-4°F) or above 54°C (130°F)

DSM-KDSM

7-90

VOR DME 23



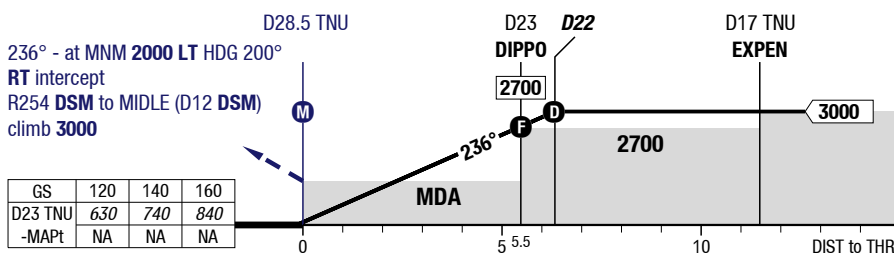
60 HL

46 G 2744

3.0°

-0.2% TDZ 939 (---%) / THR 934 (34hPa)

23	26	25	24	22			2.95° D TNU 236° RWY 231°
	1770	2090	2400	3000			



23	VOR DME					Circling TERPS
C	ft - ft/SM ft	790 - 2.25V 1720				790 - 2.25V 1740
D	ft - ft/SM ft	790 - 2.5V 1720				790 - 2.5V 1740

1) When VGSI INOP PROC HJ only