

**GENERAL****Operational Hours****ATS Hours / AD OPS Hours:** H24**Airport Information****RFF:** FAA Index C / CAT 7**Fuel:** Jet A**PCN:** RWY 04/22: 91/R/B/W/T, RWY 13L/31R: 61/F/C/W/T, RWY 13R/31L: 86/R/B/W/T**Operation****Traffic Note:** AD CLSD to ACFT with wingspan above 52m / 171ft except with PPR 24HR PN.**RWY Restrictions**

RWY 13L/31R not AVBL for part 121 ACFT OPS (Domestic, flag, supplemental OPS).

All ACFT after LDG on RWY 13R/31L exiting SW bound on TWY D to make 90° turn on TWY G to avoid newly laid unusable SFC

**TWY Restrictions**

TWY A and J north of RWY 13R/31L, TWY M, P, H northwest of Z, E east of RWY 04/22 not AVBL for ACFT over 26.7t / 59000lbs.

TWY R west of TWY D not AVBL for ACFT over 122.5t / 270000lbs.

TWY Z MAX wingspan 36m / 118ft.

TWY R between APCH end RWY 13L and TWY D, TWY S between APCH end RWY 13L and RWY 13R/31L MAX wingspan 41m / 135ft.

TWY B and L not AVBL for ACFT with wingspan above 36m / 118ft exiting RWY 31L.

TWY G between TWY W and RWY 04/22 MAX wingspan 41m / 135ft.

Inner Ramp taxilane east of Terminal A CLSD to ACFT with wingspan above 41m / 135ft, except for ACFT crossing inner RAMP to gates A1-A5.

Inner Ramp taxilane north of Terminal A, B CLSD to ACFT with wingspan above 41m / 135ft.

TWY L CLSD northbound.

**Taxi/Parking**

ACFT taxiing on RWY 04 NE bound look for hold short to RWY 31L.

ACFT taxiing on TWY N SW bound look for hold short to RWY 31R.

Use of gates A1, A5-A8 with PPR only.

ACFT at terminal A and B contact GND prior to push-back for advisories.

APN east cargo ramp intersection of RWY 04/22 and TWY D, ACFT must use MNM PWR when crossing RWY to avoid damage due to jet blast.

**VOR TEST FACILITY (VOT):** 110.4**Warnings**

Rubber accumulation on northwest part of RWY 13R/31L.

Compass deviation may occur at NW portion of TWY R due to bridge located under the TWY.

Slight dip in pavement at NW portion of TWY R.

Glider activity about 17 NM NW of AD.

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 13R**

GP intercepts RWY 13R at 337m / 1107ft after landing threshold.  
Remaining DIST beyond GP is 2254m / 7395ft.

**RWY 31L**

GP intercepts RWY 31L at 349m / 1145ft after landing threshold.  
Remaining DIST beyond GP is 2242m / 7357ft.

**RWY 04**

GP intercepts RWY 04 at 326m / 1069ft after landing threshold.  
Remaining DIST beyond GP is 2266m / 7436ft.

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

RWY		04, 13R/31L	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	-
RWY		22, 13L/31R	
1+2 ENG	ft - ft/SM	0 - 1.0V	-
3+4 ENG		0 - 0.5V	-

**Speed**

MAX IAS 250KT below 10000ft.

**Communication**

DLV contact on GND is not always possible. In this case use continuously monitored service telephone line: (210) 805-5516.

**COM Failure:** See CRAR.

**Departure Procedure****Start-up/Push-back**

ACFT at terminal A and B contact GND prior to push-back for advisories.

**Noise Abatement Procedure**

Noise sensitive areas exist on all sides of the AD:

Climb as quickly, quietly as safely possible and use consideration when flying over populated areas by minimizing FLT and high PWR settings.

PPR required for ACFT when powering back from terminal gates.

Effective 13-SEP-2018

06-SEP-2018

SAT-KSAT

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AGC  
AFC

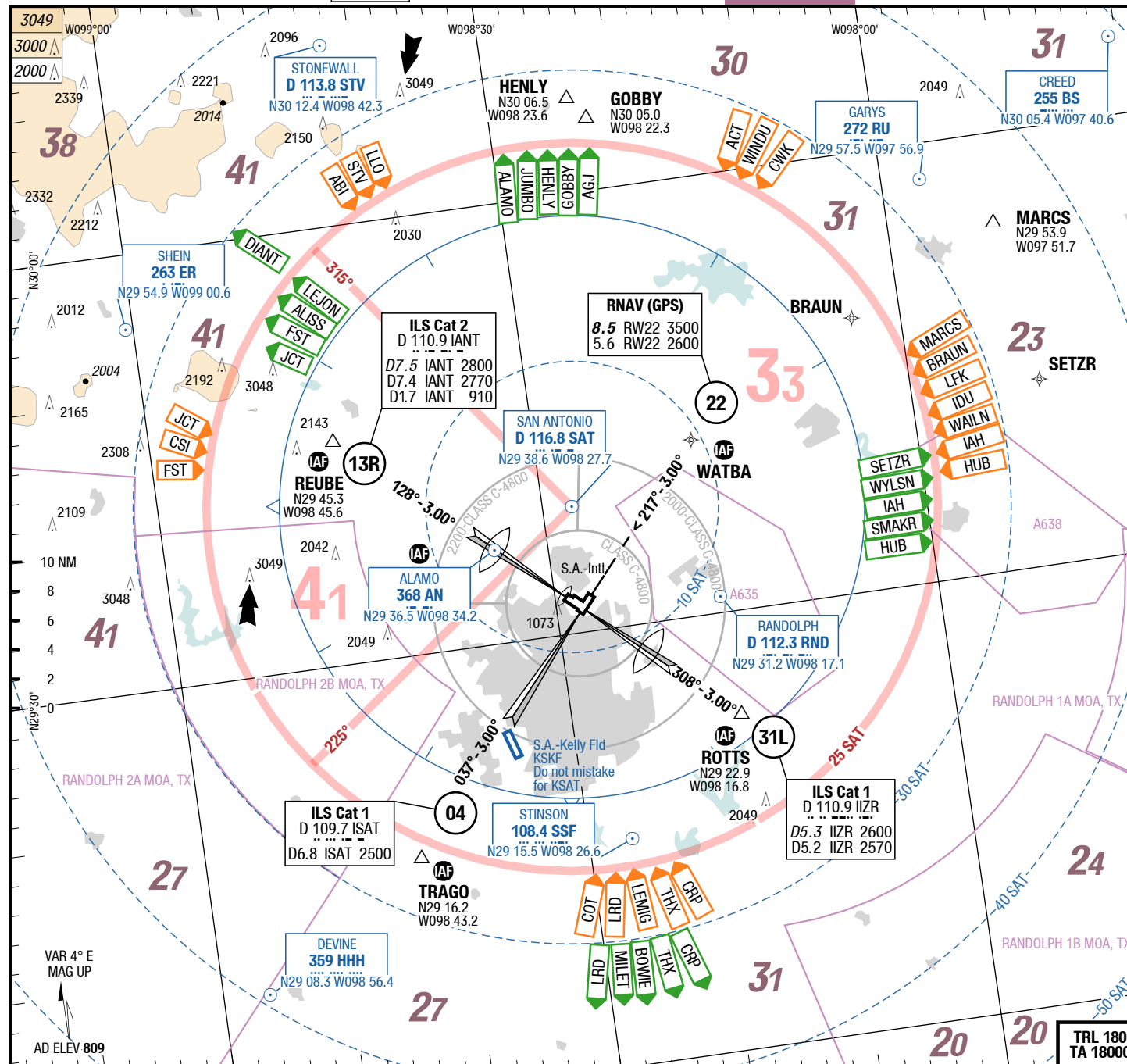
AFC

AFC

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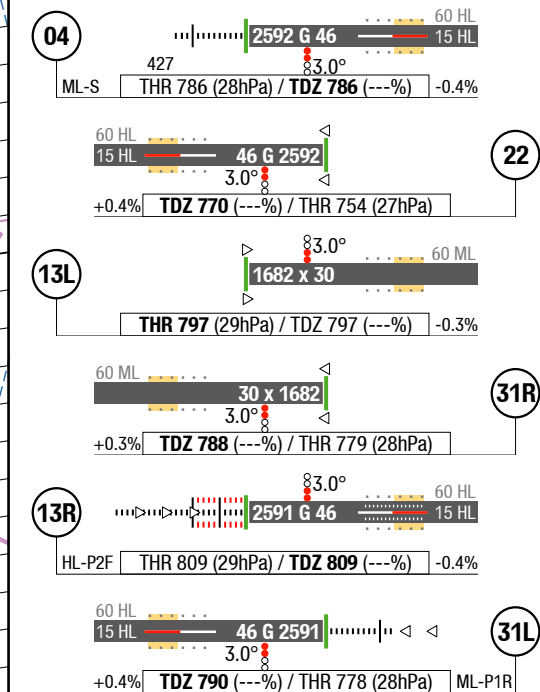
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AFC

2-10

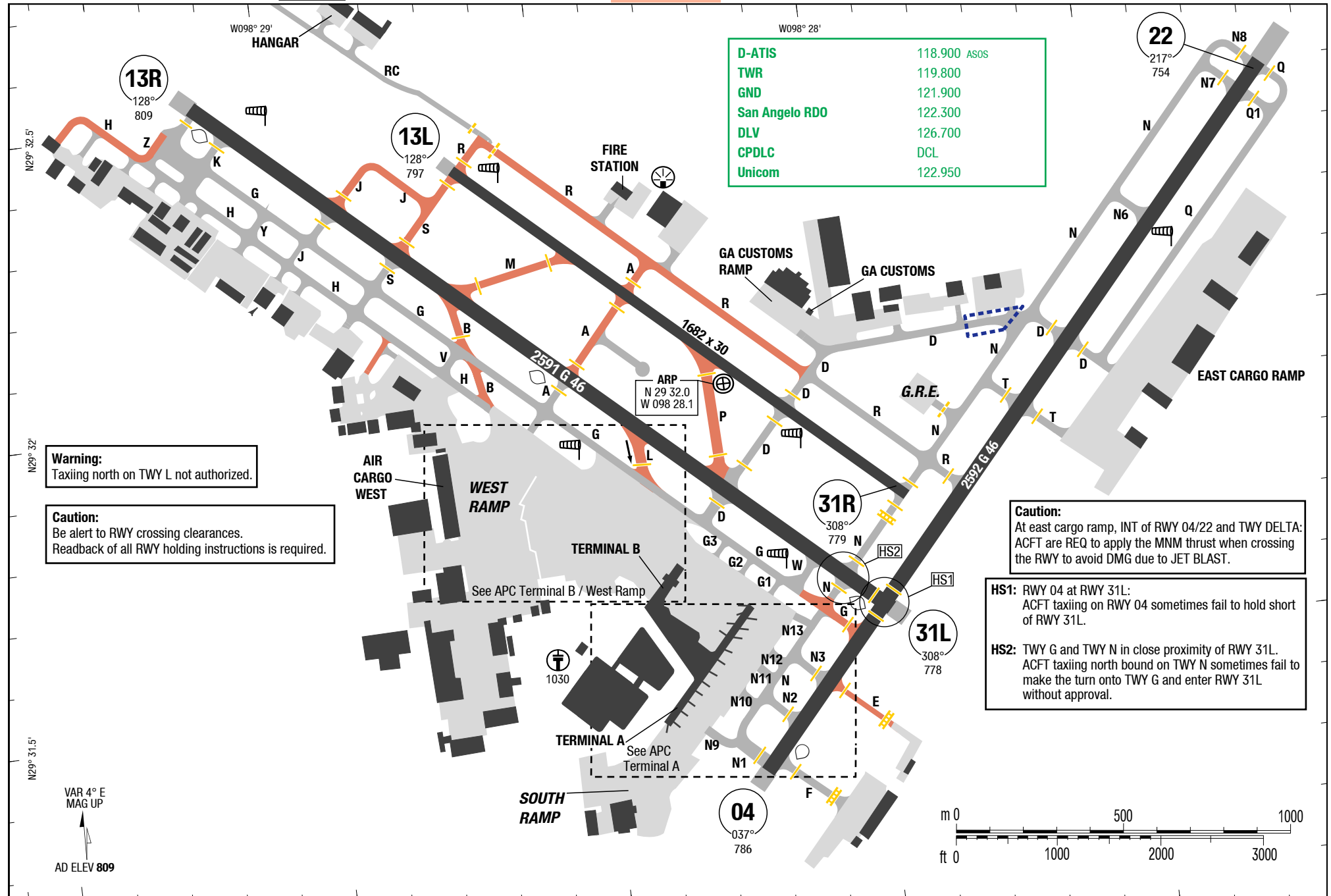


**D-ATIS** 118.900 ASOS  
**APP** 124.450 (360°-090°) 128.050 (091°-140°)  
118.050 (141°-270°) 125.100 (271°-359°)  
127.100 125.700  
**DEP** 124.450 (360°-090°) 128.050 (091°-140°)  
118.050 (141°-270°) 125.100 (271°-359°)  
127.100 125.700  
**TWR** 119.800  
**GND** 121.900  
**DLV** 126.700  
**CPDLC** DCL  
**PDC**  
**San Angelo RDO** 122.300  
**Unicom** 122.950

**Landing RWY system:**



Changes: Nil



Effective 13-SEP-2018

06-SEP-2018

SAT-KSAT

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APC Terminal B / West Ramp

APC Terminal A

APC

APC

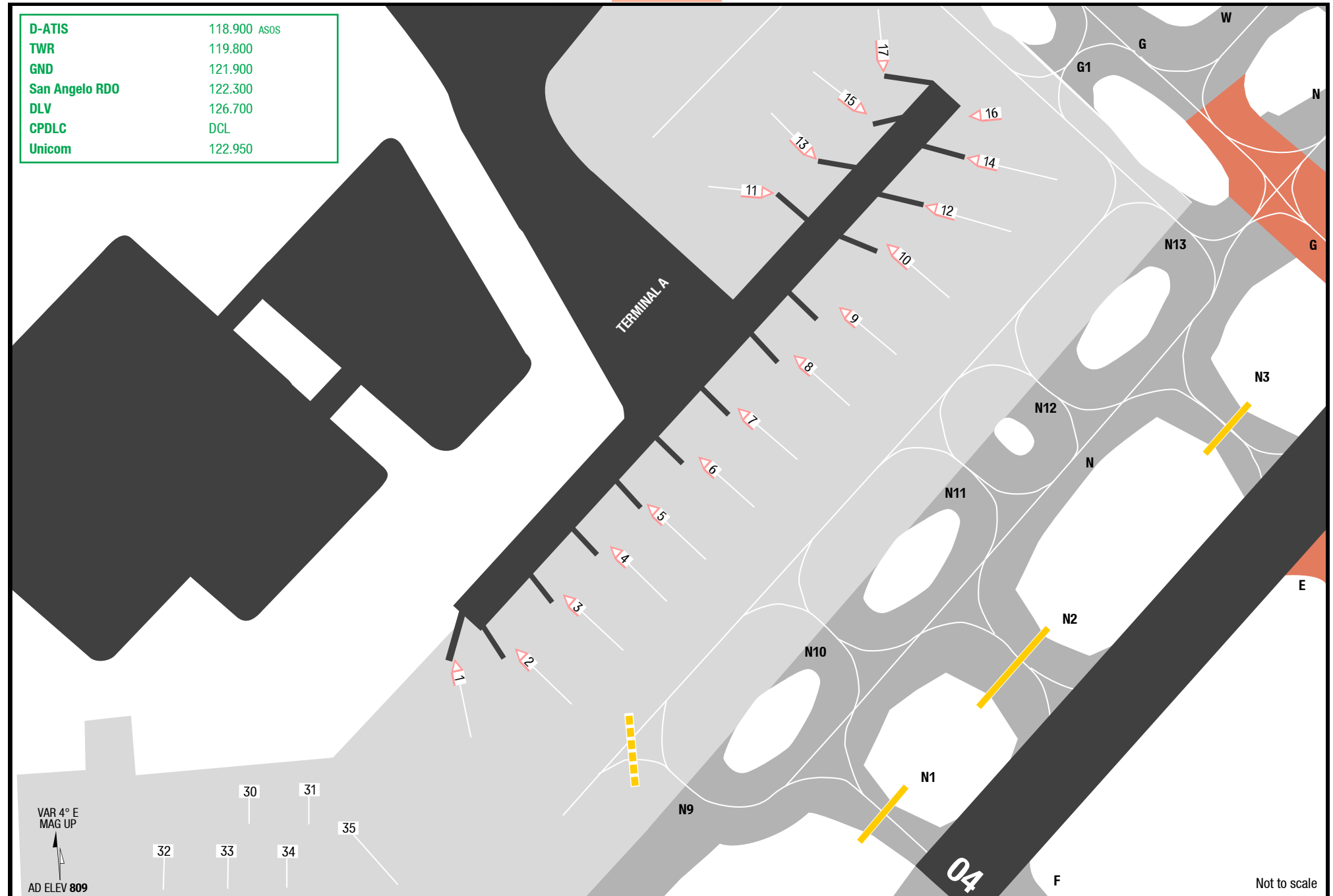
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APC Terminal B / West Ramp

APC Terminal A

3-30

D-ATIS	118.900 ASOS
TWR	119.800
GND	121.900
San Angelo RDO	122.300
DLV	126.700
CPDLC	DCL
Unicom	122.950



Changes: TWY G

06-SEP-2018

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# APC

# APC

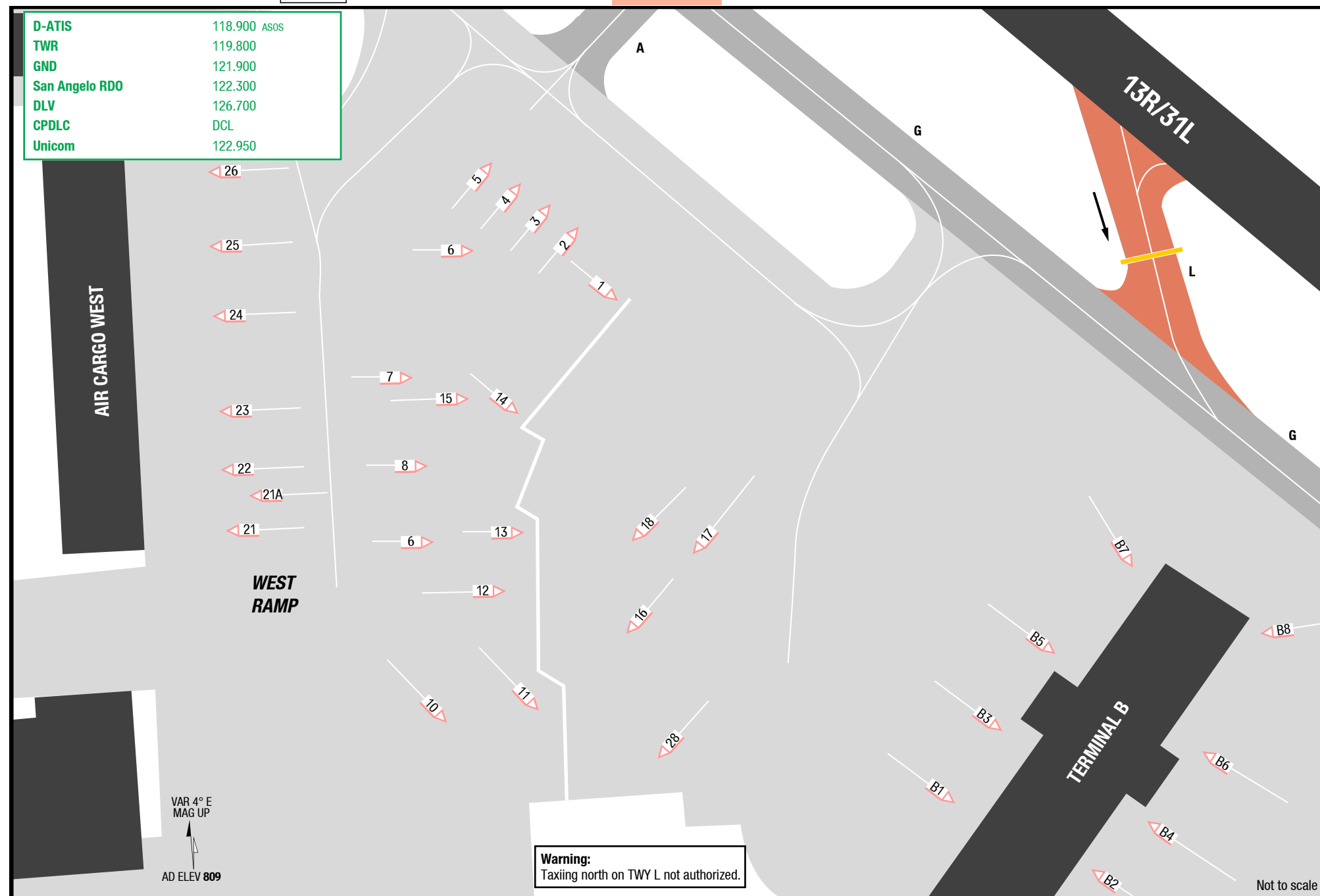
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## SAT-KSAT

3-40

### APC Terminal B / West Ramp

### APC Terminal B / West Ramp







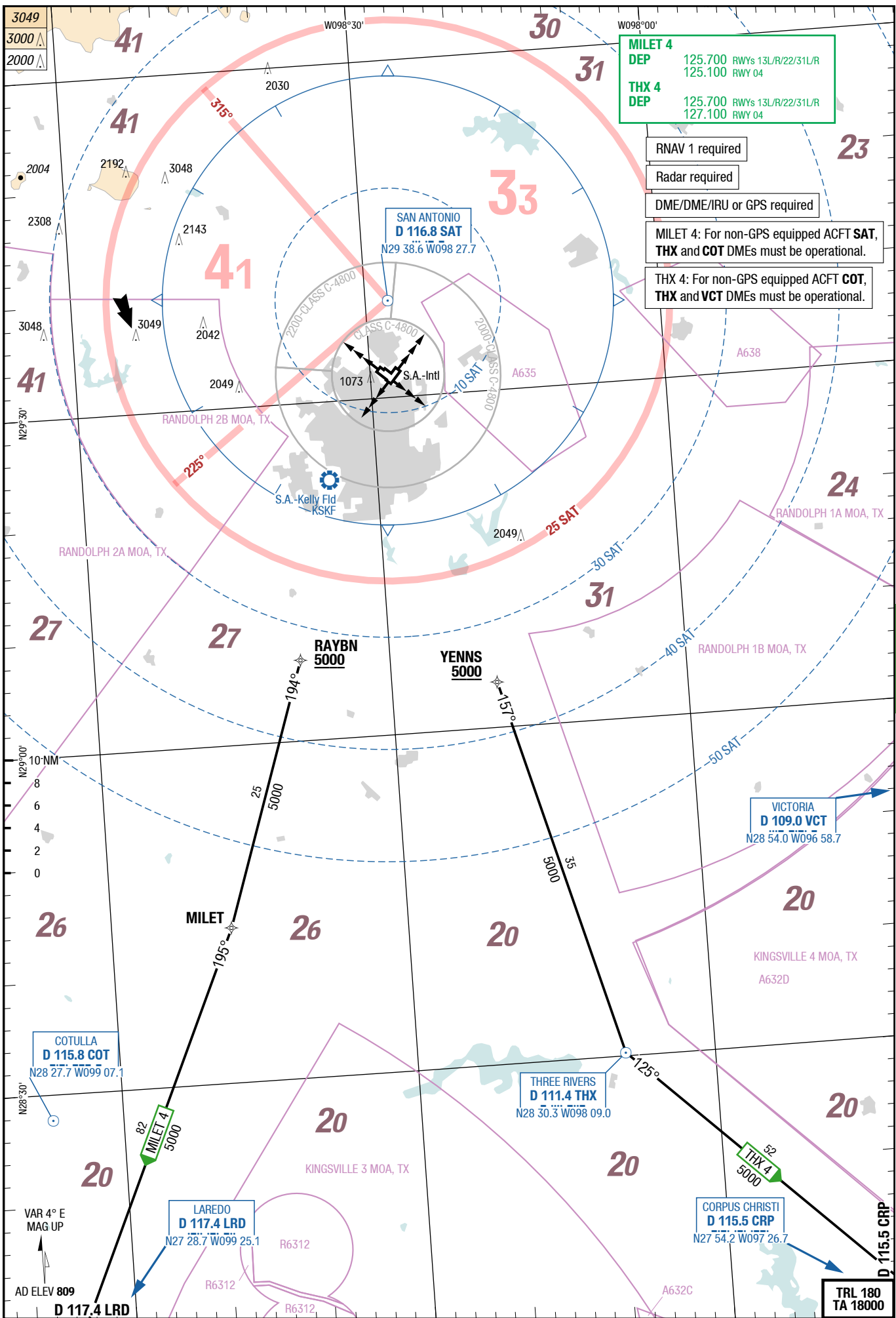
SAT-KSAT

4-20

MILET 4 RNAV / THREE RIVERS 4 (THX 4) RNAV

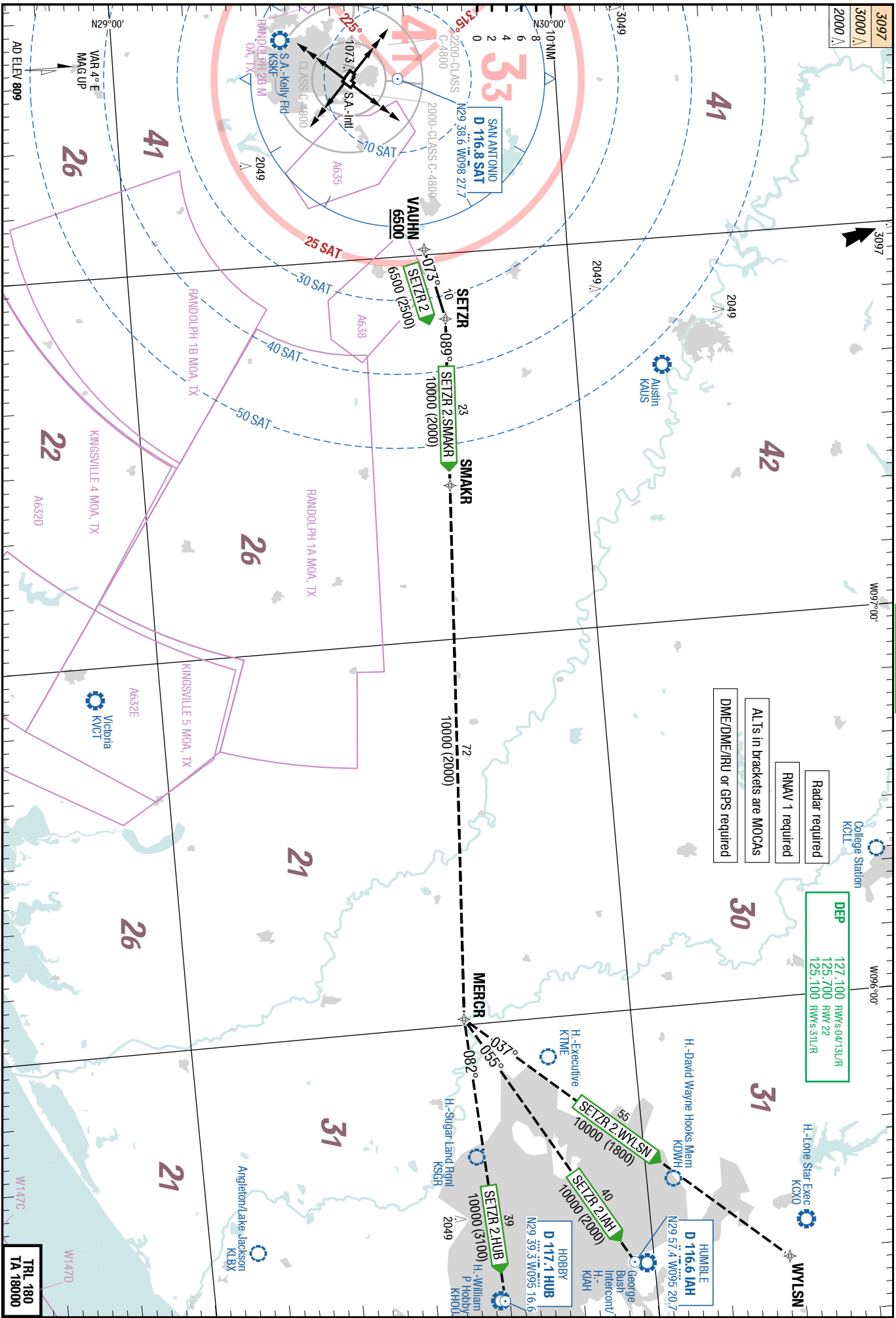
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MILET 4 RNAV / THREE RIVERS 4 (THX 4) RNAV



Changes: PROC, VAR, MEA, PROC renumbered, Transition

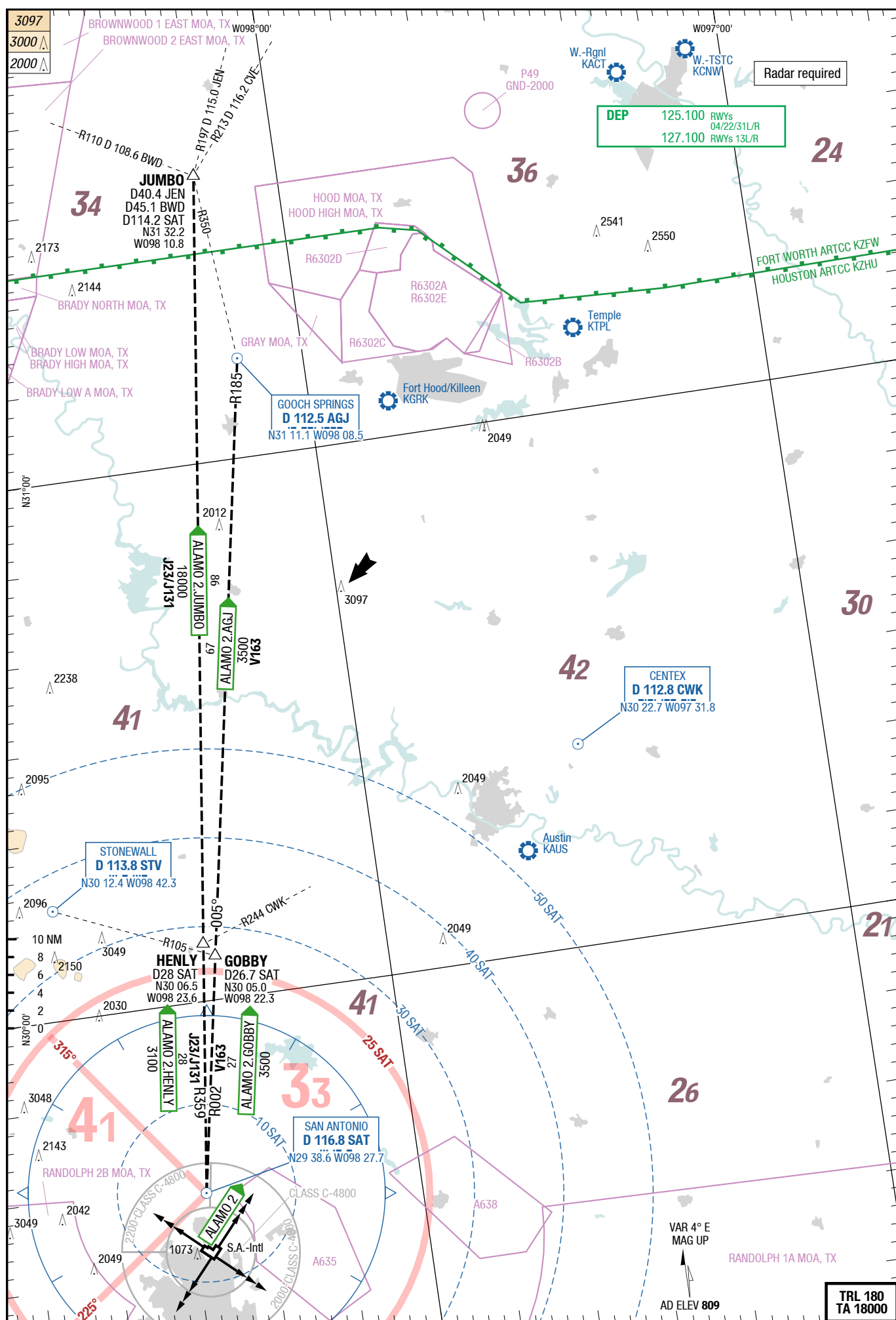




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# ALAMO 2

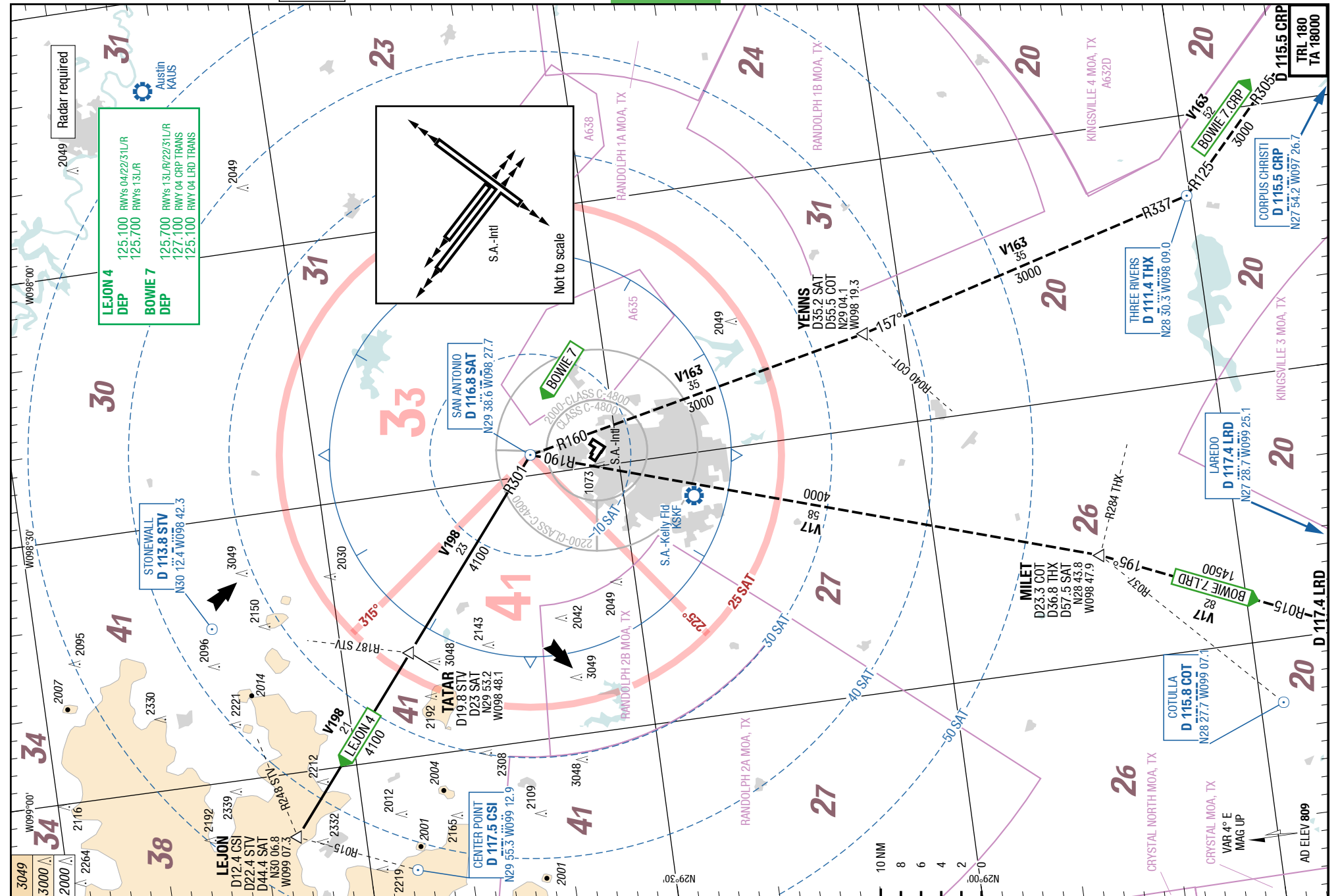
# ALAMO 2



Changes: PROC renumbered, VAR, SUAS

4-50

BOWIE 7 / LEJON 4



**SAT-KSAT**

5-10

**ALISS 5 RNAV****ALISS 5**

RWYs 04 (037°) / 13L/R (128°) / 22 (217°) / 31L/R (308°)

DESIGNATOR	ROUTING	ALTITUDES
<b>ALISS 5</b> ①		TREVA MNM <b>5000</b> <u>initial climb 5000</u>
<b>RWY 04</b> <b>125.100</b>	HDG 037° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
<b>RWY 13L</b> <b>125.700</b>	HDG 128° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
<b>RWY 13R</b> <b>125.700</b>	HDG 128° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
<b>RWY 22</b> <b>125.100</b>	HDG 217° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
<b>RWY 31L</b> <b>125.100</b>	HDG 308° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
<b>RWY 31R</b> <b>125.100</b>	HDG 308° - expect radar vectors to TREVA - TATAR - LEJON - ALISS	
	<b>TRANSITION</b>	
	<b>DIANT</b> ALISS - DIANT	
	<b>FORT STOCKTON (FST)</b> ALISS - DIANT - FST	
	<b>JUNCTION (JCT)</b> ALISS - JCT	

① Expect filed altitude 10 MIN after DEP.

**SAT-KSAT**

5-20

MILET 4 RNAV / THREE RIVERS 4 (THX 4) RNAV

**MILET 4 / THREE RIVERS 4**

RWYs 04 (037°) / 13L/R (128°) / 22 (217°) / 31L/R (308°)

DESIGNATOR	ROUTING	ALTITUDES
<b>MILET 4</b> ①		RAYBN MNM 5000 initial climb 5000
<b>RWY 04</b> 125.100	Assigned HDG - expect radar vectors to RAYBN - MILET- LRD	
<b>RWYs 13L/13R</b> 125.700	Assigned HDG - expect radar vectors to RAYBN - MILET- LRD	
<b>RWY 22</b> 125.700	Assigned HDG - expect radar vectors to RAYBN - MILET - LRD	
<b>RWYs 31L/31R</b> 125.700	Assigned HDG - expect radar vectors to RAYBN - MILET - LRD	
<b>THREE RIVERS 4</b> <b>THX 4</b> ①		YENNS MNM 5000 initial climb 5000
<b>RWY 04</b> 127.100	Assigned HDG - expect radar vectors to YENNS - THX - CRP	
<b>RWYs 13L/13R</b> 125.700	Assigned HDG - expect radar vectors to YENNS - THX - CRP	
<b>RWY 22</b> 125.700	Assigned HDG - expect radar vectors to YENNS - THX - CRP	
<b>RWYs 31L/31R</b> 125.700	Assigned HDG - expect radar vectors to YENNS - THX - CRP	

① Expect filed altitude 10 MIN after DEP.

**SAT-KSAT**

5-30

**SETZR 2 RNAV****SETZR 2**

RWYs 04 (037°) / 13L/R (128°) / 22 (217°) / 31L/R (308°)

DESIGNATOR	ROUTING	ALTITUDES
<b>SETZR 2</b> ①		VAUHN MNM <b>6500</b> <b>initial climb 6500</b>
<b>RWY 04</b> <b>127.100</b>	Assigned HDG - expect radar vectors to VAUHN - 073° to SETZR	
<b>RWYs 13L/13R</b> <b>127.100</b>	Assigned HDG - expect radar vectors to VAUHN - 073° to SETZR	
<b>RWY 22</b> <b>125.700</b>	Assigned HDG - expect radar vectors to VAUHN - 073° to SETZR	
<b>RWYs 31L/31R</b> <b>125.100</b>	Assigned HDG - expect radar vectors to VAUHN - 073° to SETZR	
	<b>TRANSITION</b>	
	<b>HOBBY (HUB)</b> SETZR - SMAKR - MERCER - <b>HUB</b>	
	<b>HUMBLE (IAH)</b> SETZR - SMAKR - MERCER - <b>IAH</b>	
	<b>SMAKR</b> SETZR - SMAKR	
	<b>WYLSN</b> SETZR - SMAKR - MERCER - WYLSN	

① Expect filed ALT 10 MIN after DEP.

Changes: ALT, Track, QFU, PROC renumbered

**SAT-KSAT**

5-40

**ALAMO 2****ALAMO 2**

RWYs 04 (037°) / 13L/R (128°) / 22 (217°) / 31L/R (308°)

DESIGNATOR	ROUTING	ALTITUDES
<b>ALAMO 2</b> ①		<b>initial climb 5000</b>
<b>RWY 04</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWYs 13L/13R</b> <b>127.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWY 22</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWYs 31L/31R</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
	<b>TRANSITION</b>	
	<b>GOBBY</b> <b>SAT - R002 SAT to GOBBY</b>	
	<b>GOOCH SPRINGS (AGJ)</b> <b>SAT - R002 SAT to GOBBY - R185 AGJ inbound to AGJ</b>	
	<b>HENLY</b> <b>SAT - R359 SAT to HENLY</b>	
	<b>JUMBO</b> <b>SAT - R359 SAT to JUMBO</b>	

① Expect filed ALT 10 MIN after DEP.



**SAT-KSAT**

5-50

**BOWIE 7 / LEJON 4****BOWIE 7 / LEJON 4**

RWYs 04 (037°) / 13L/R (128°) / 22 (217°) / 31L/R (308°)

DESIGNATOR	ROUTING	ALTITUDES
<b>BOWIE 7</b> ① <span style="float: right;">initial climb 5000</span>		
<b>RWY 04</b> <b>125.100</b> (LRD TRANS) <b>127.100</b> (CRP TRANS)	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWYs 13L/13R</b> <b>125.700</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWY 22</b> <b>125.700</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>RWYs 31L/31R</b> <b>125.700</b>	Assigned HDG - expect radar vectors to <b>SAT</b>	
<b>TRANSITION</b>		
	<b>CORPUS CHRISTI (CRP)</b> <b>SAT</b> - R160 <b>SAT</b> - at YENNS R337 <b>THX</b> to <b>THX</b> - R125 <b>THX</b> /R305 <b>CRP</b> to <b>CRP</b>	
	<b>LAREDO (LRD)</b> <b>SAT</b> - R190 <b>SAT</b> - at MILET R015 <b>LRD</b> to <b>LRD</b>	
<b>LEJON 4</b> ① <span style="float: right;">initial climb 5000</span>		
<b>RWY 04</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b> - R301 <b>SAT</b> to TATAR - LEJON	
<b>RWYs 13L/13R</b> <b>125.700</b>	Assigned HDG - expect radar vectors to <b>SAT</b> - R301 <b>SAT</b> to TATAR - LEJON	
<b>RWY 22</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b> - R301 <b>SAT</b> to TATAR - LEJON	
<b>RWYs 31L/31R</b> <b>125.100</b>	Assigned HDG - expect radar vectors to <b>SAT</b> - R301 <b>SAT</b> to TATAR - LEJON	
① Expect filed ALT/flight level 10 MIN after DEP.		

Changes: RWY Designator, QFU, PROC renumbered, Transition

**SAT-KSAT**

5-70

**Obstacle Departure**

<b>Obstacle Departure</b>	
<b>RWY</b>	<b>Notes</b>
<b>13R</b>	Antenna on RTR tower, 1034ft from DER, 723ft right of centerline, 42ft AGL/820ft MSL. Building 3801ft from DER, 1488ft right of centerline, 117ft AGL/881ft MSL.
<b>22</b>	Antenna on hangar and flagpole, 1198ft from DER, 700ft right of centerline, 39ft AGL/825ft MSL. Poles beginning 2209ft from DER, 1041ft right of centerline, up to 23ft AGL/869ft MSL. Sign 2713ft from DER, 1034ft right of centerline, 71ft AGL/857ft MSL.
<b>31L</b>	Pole 1931ft from DER, 911ft left of centerline, 42ft AGL/867ft MSL. Poles beginning 2356ft from DER, 913ft left of centerline, up to 42ft AGL/892ft MSL. Sign 2435ft from DER, 1032ft right of centerline, 42ft AGL/873ft MSL. Tower 2766ft from DER, 834ft left of centerline, 54ft AGL/891ft MSL.
<b>31R</b>	Rod on obstruction lights GS 1261ft from DER, 591ft left of centerline, 57ft AGL/854ft MSL.

23-FEB-2017

## SAT-KSAT

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CENTERPOINT 2 (CSI 2)

## BRAUN 2 RNAV

**6-10**

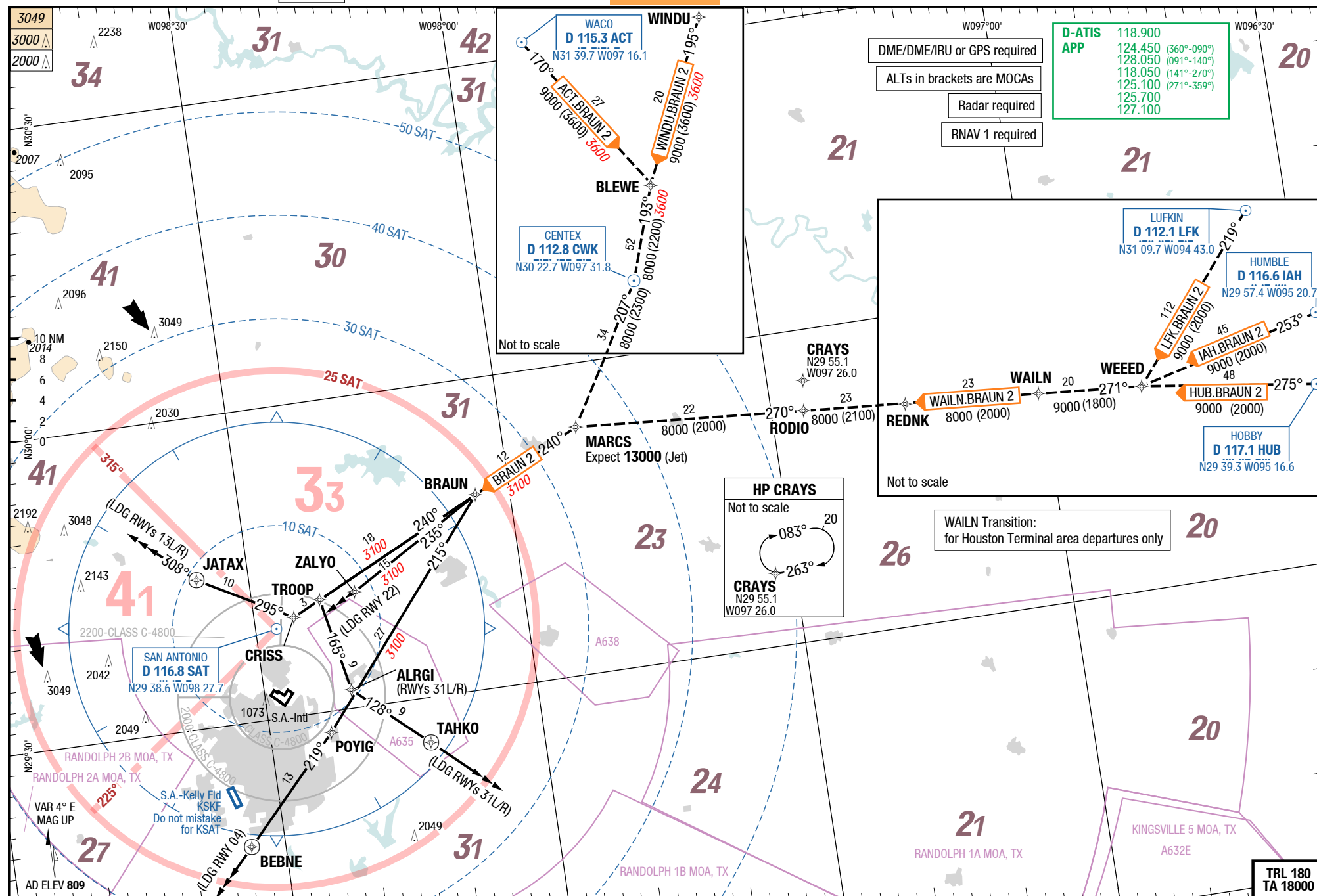
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# STAR

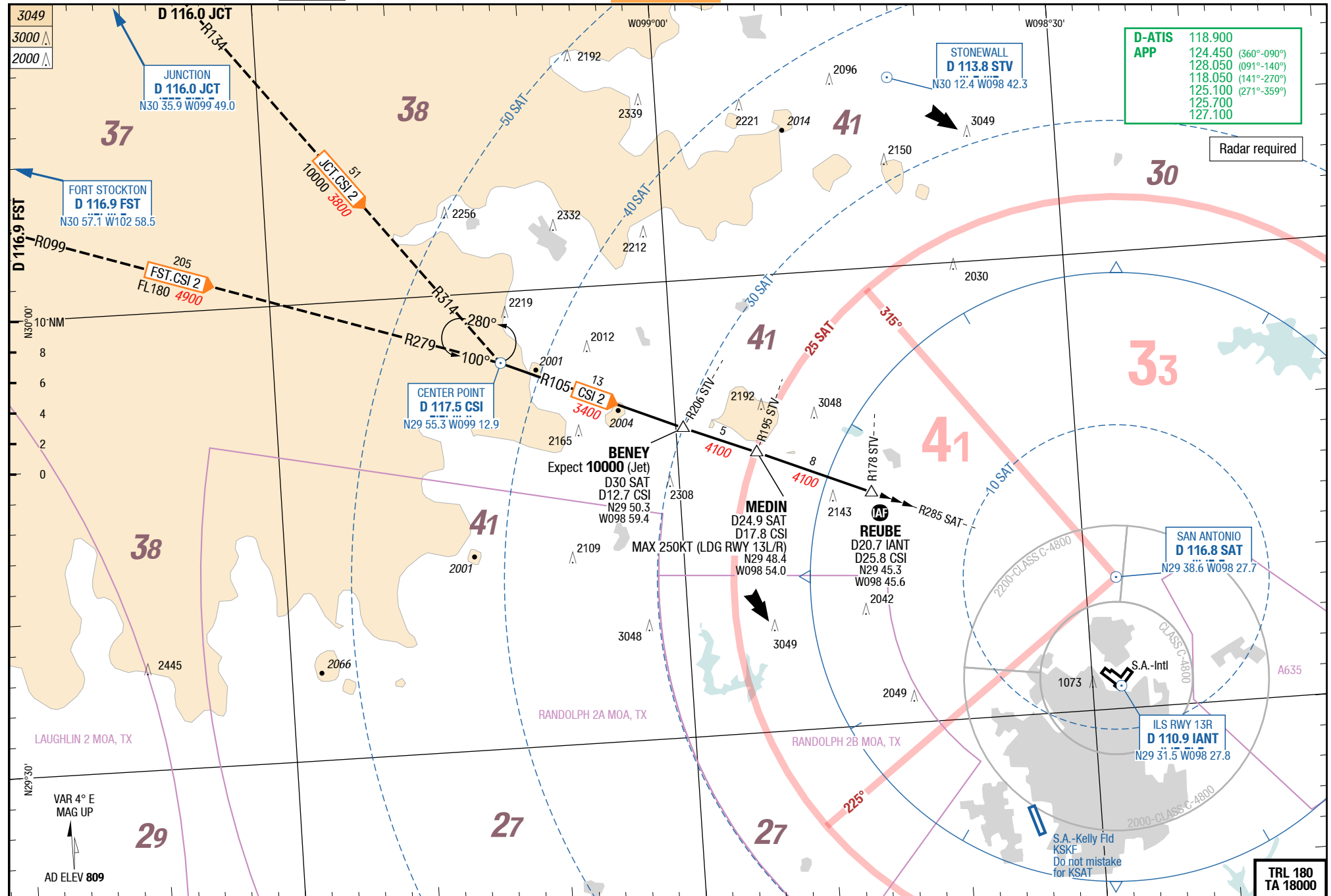
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CENTERPOINT 2 (CSI 2)

## BRAUN 2 RNAV



Changes: HLDG, MEA, PROC renumbered, VAR, MOCA, Editorial



23-FEB-2017

United States **San Antonio** San Antonio Intl

MARCS 1

## LEMIG 1

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# STAR

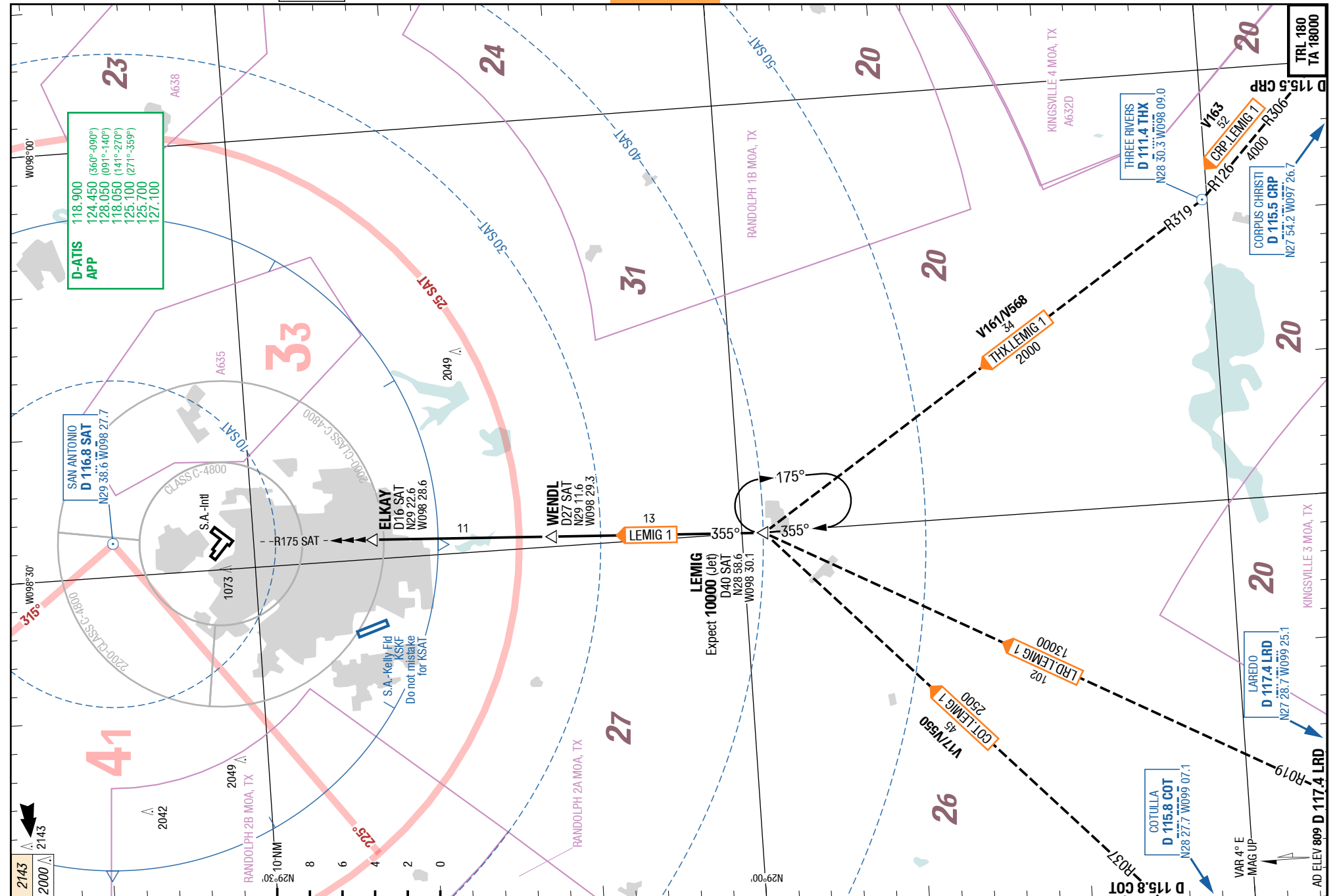
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MARCS 1

## LEMIG 1

## SAT-KSAT

**6-30**



Changes: MGA, OBST, VAR, SUAs, Editorial

23-FEB-2017

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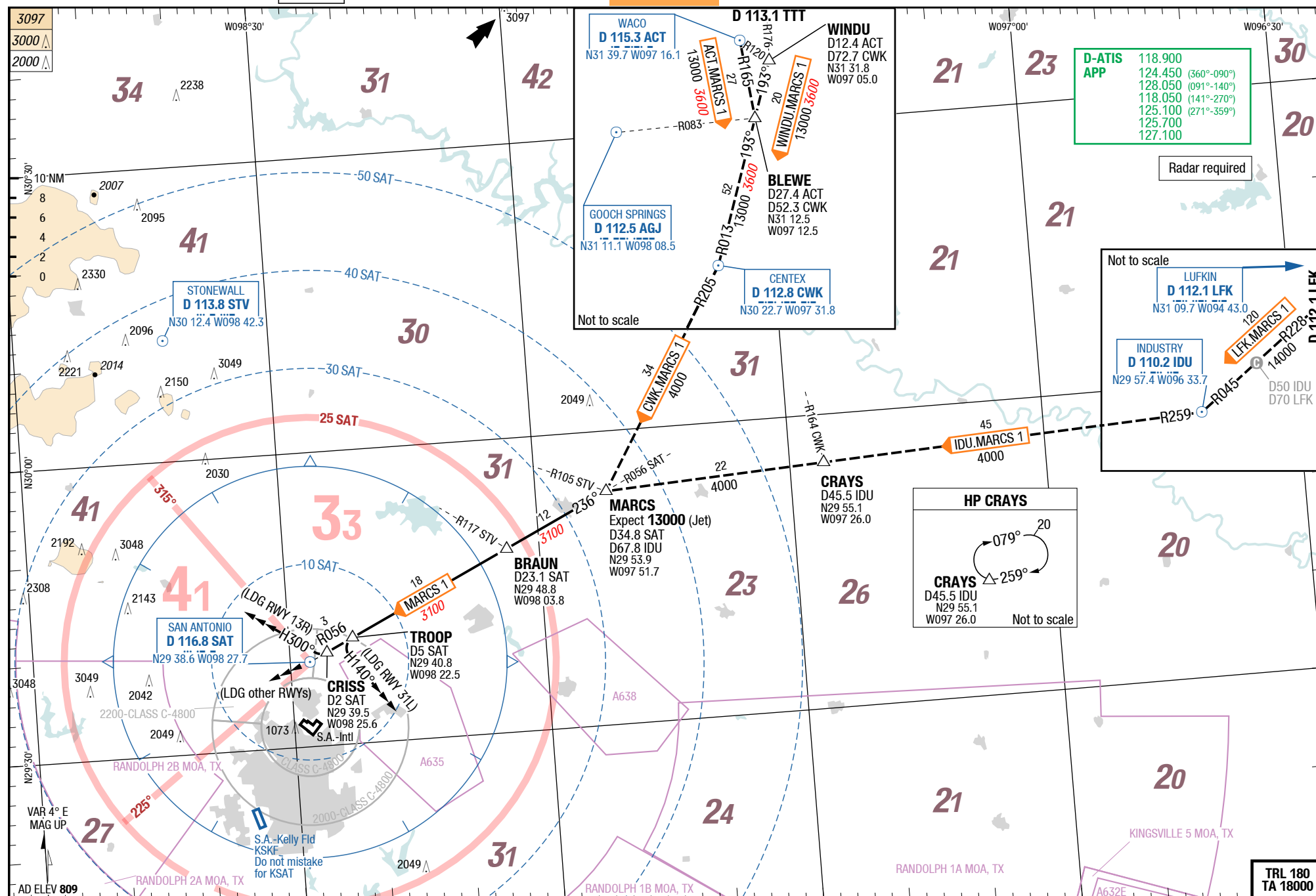
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## SAT-KSAT

**6-40**

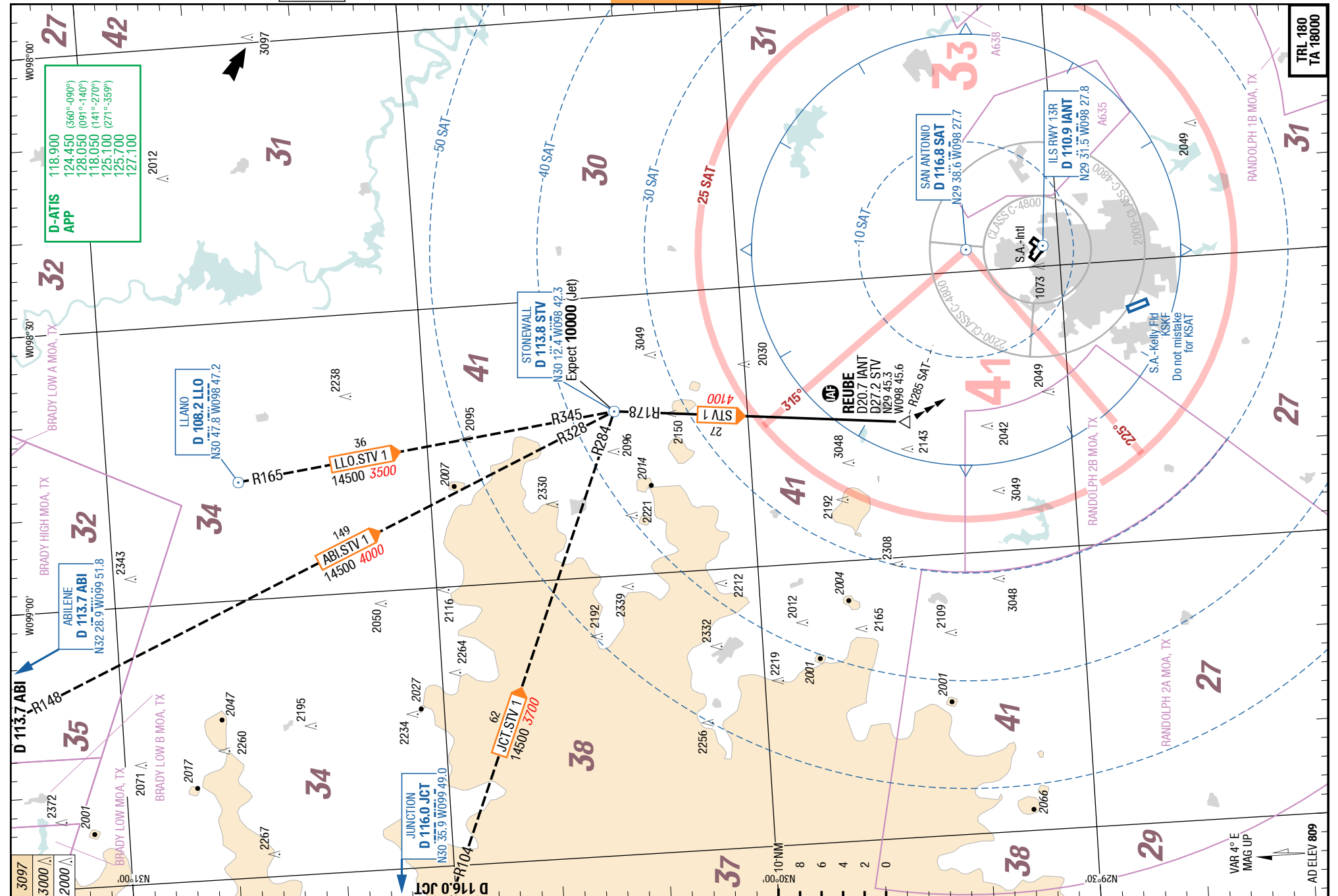
## MARCS 1

## MARCS 1



Changes: MEA, OBST, VAR, Note, Editorial



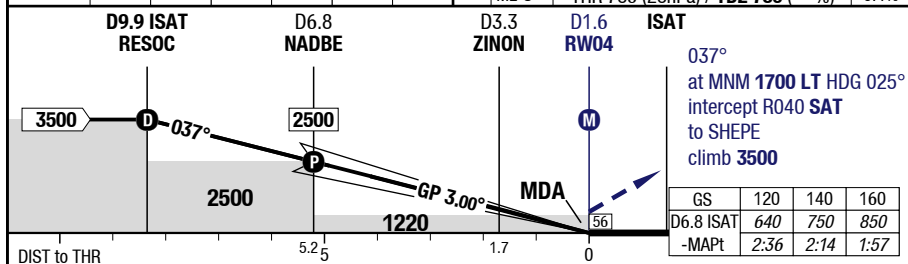
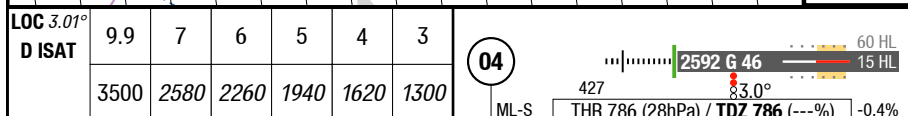
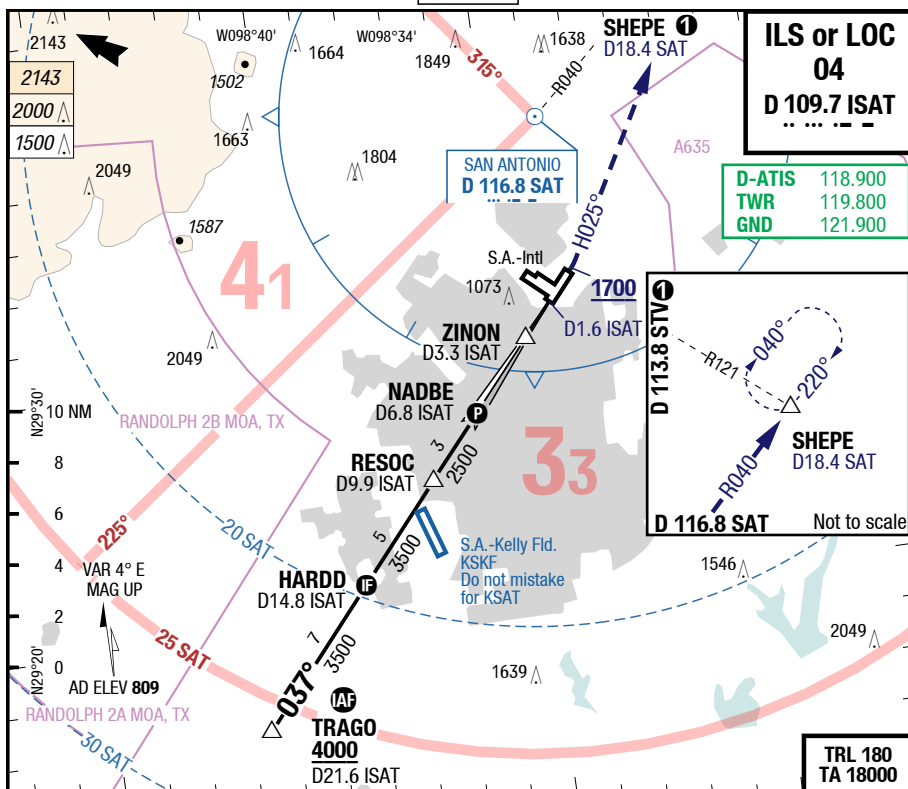




## SAT-KSAT

7-10

ILS or LOC 04



04	Cat 1 <sup>1)</sup>	LOC DME <sup>1)</sup>	LOC <sup>1)</sup>	LOC <sup>1)</sup>	Circling 2)
C	ft - ft/SM 200 - 4000R/0.75V 990	340 - 4000R/0.75V 1120	440 - 5500R/1.0V 1220		600 - 1.5V 1410
D	ft - ft/SM 200 - 4000R/0.75V 990	340 - 4000R/0.75V 1120	440 - 5500R/1.0V 1220		700 - 2.25V 1510

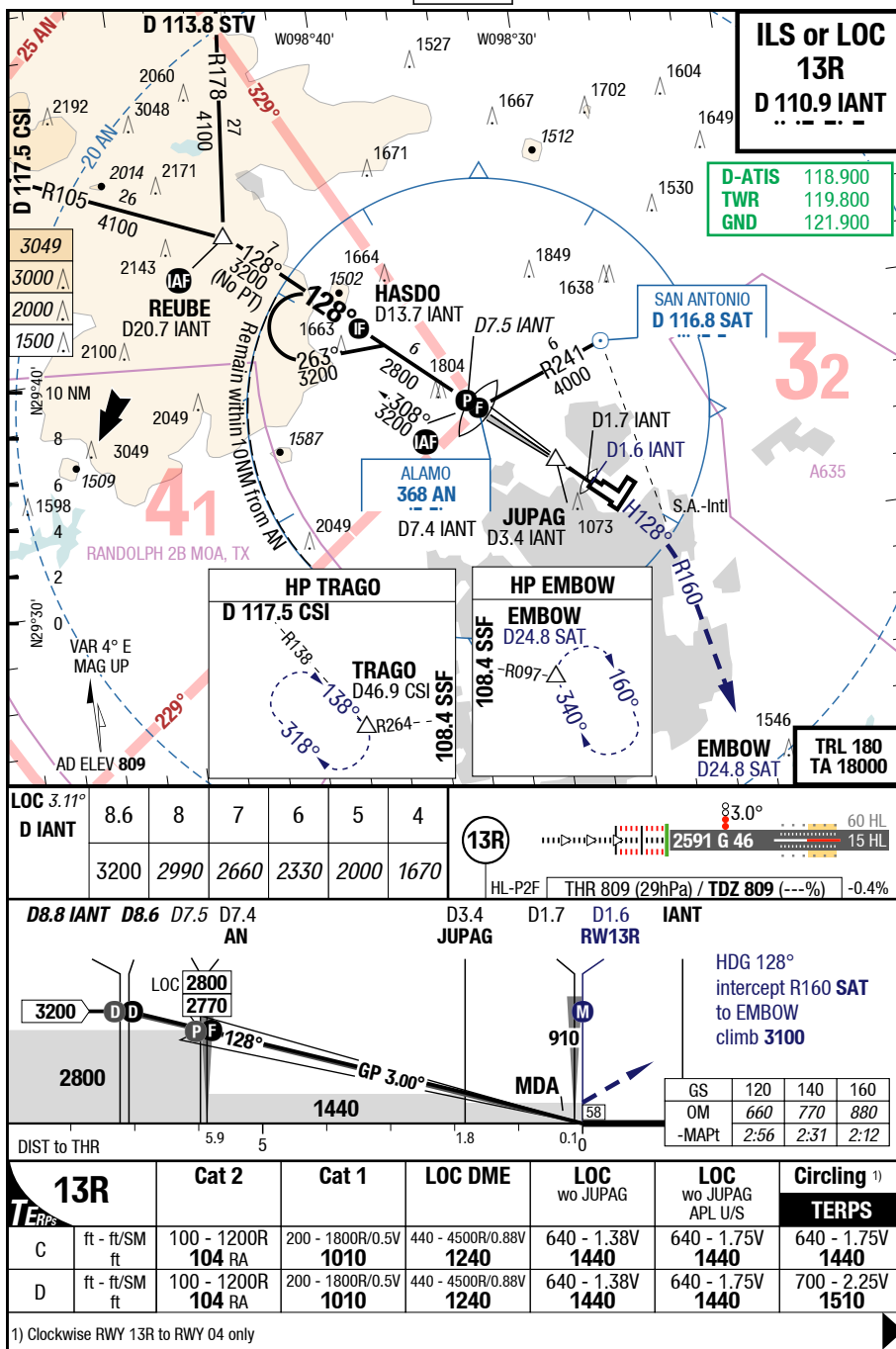
1) Autopilot coupled APCH NA below 1189ft MSL

2) Clockwise RWY 13R to RWY 04 only

## SAT-KSAT

7-20

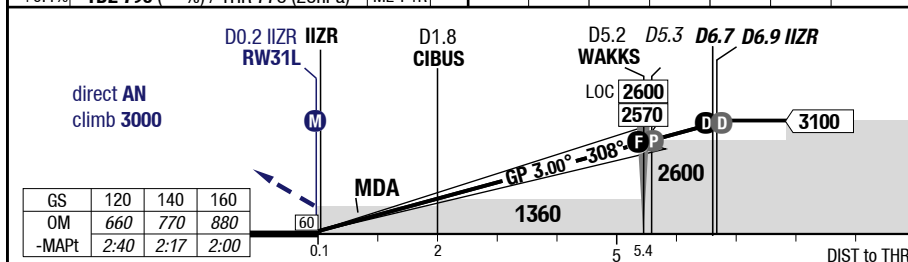
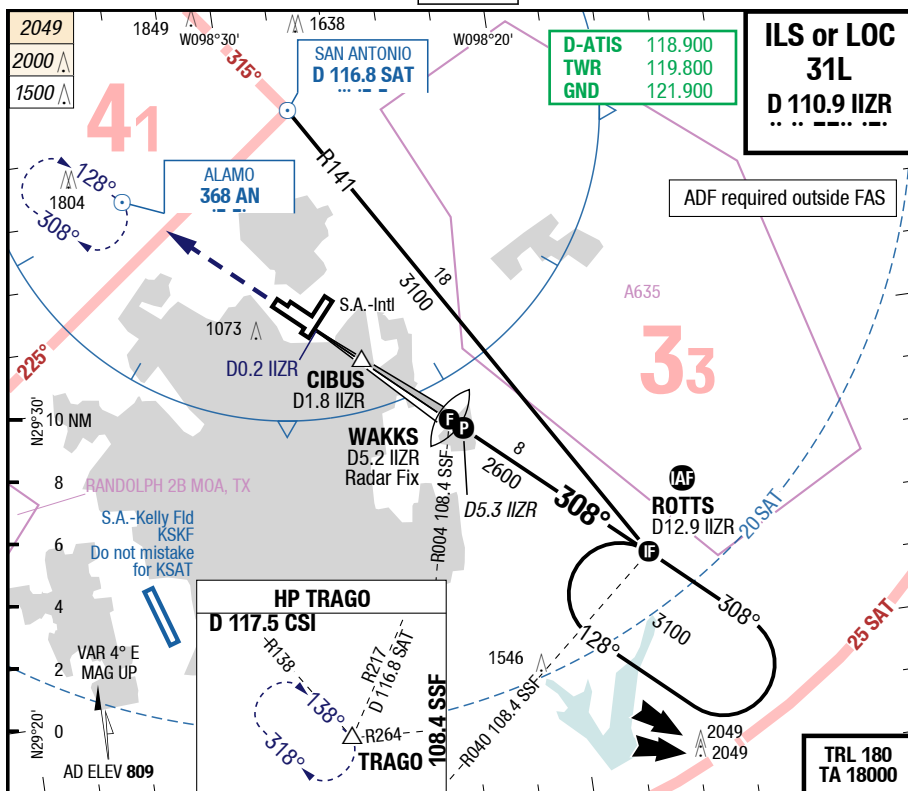
## ILS or LOC 13R



## SAT-KSAT

7-30

## ILS or LOC 31L



<b>31L</b>		<b>Cat 1</b>	<b>LOC DME</b>	<b>LOC</b> wo CIBUS	<b>LOC</b> wo CIBUS APL U/S	<b>Sidestep 31R</b>	<b>Circling <sup>2)</sup></b>
<b>TERPS</b>		1)					<b>TERPS</b>
<b>C</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>990</b>	410 - 4000R/0.75V <b>1200</b>	570 - 1.25V <b>1360</b>	570 - 1.75V <b>1360</b>	580 - 1.75V <b>1360</b>	600 - 1.75V <b>1410</b>
<b>D</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>990</b>	410 - 4000R/0.75V <b>1200</b>	570 - 1.25V <b>1360</b>	570 - 1.75V <b>1360</b>	580 - 2.25V <b>1360</b>	700 - 2.25V <b>1510</b>

1) FD, AP or HGS required, else RVR 2400ft / VIS 0.5SM

2) Clockwise RWY 13R to RWY 04 only

Effective 02-MAR-2017

23-FEB-2017

SAT-KSAT

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RNAV (RNP) Z 13R, RNAV (RNP) Z 22

7-50

RNAV (RNP) Z 04

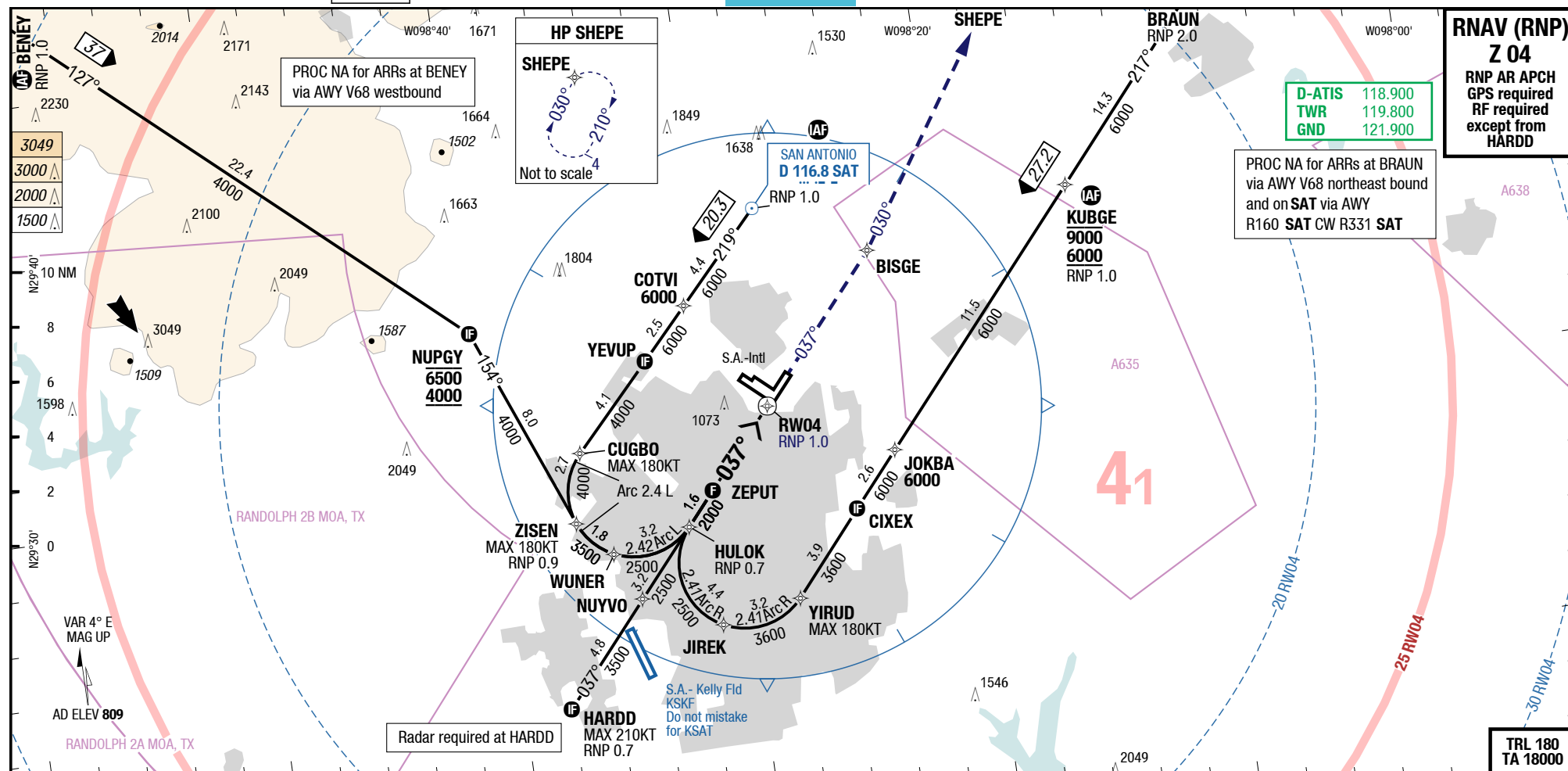
IAC

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RNAV (RNP) Z 13R, RNAV (RNP) Z 22

RNAV (RNP) Z 04



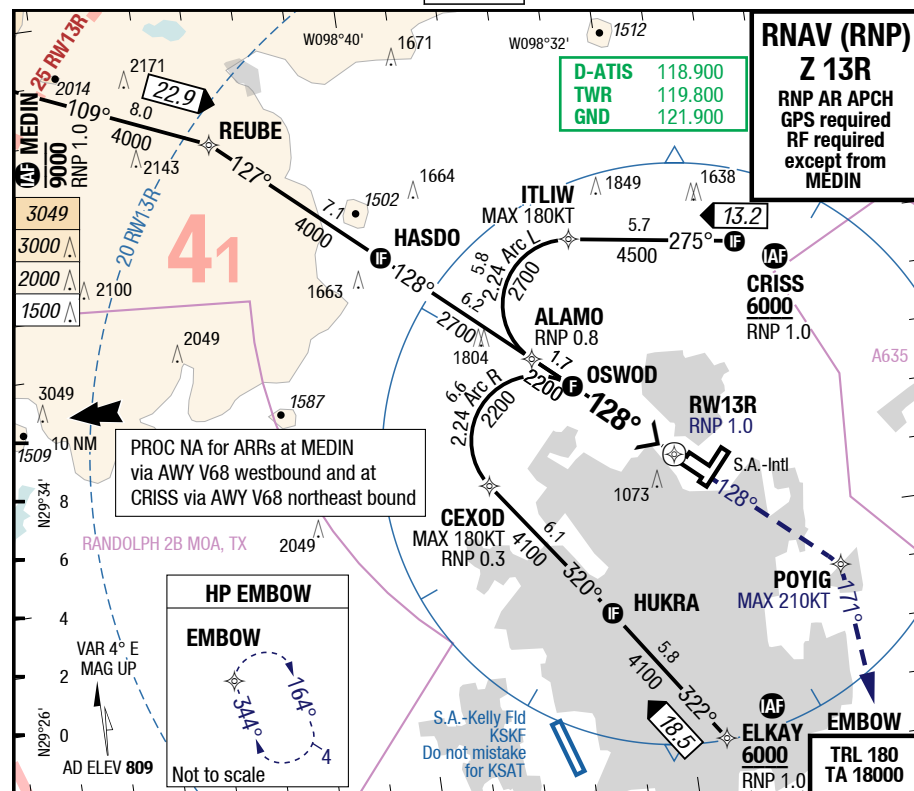
TERPS						Circling
04	RNAV	RNAV	RNAV	RNAV		
	RNP 0.15 VNAV	RNP 0.15 VNAV	RNP 0.30 VNAV	RNP 0.30 VNAV		
C	ft - ft/SM	390 - 5000R/1.0V		500 - 1.5V		Not published
	ft	1180		1290		
D	ft - ft/SM	390 - 5000R/1.0V	390 - 1.25V	500 - 1.5V	500 - 1.75V	Not published
	ft	1180	1180	1290	1290	


1) Uncompensated BARO VNAV NA below -4°C (25°F) or above 54°C (130°F)

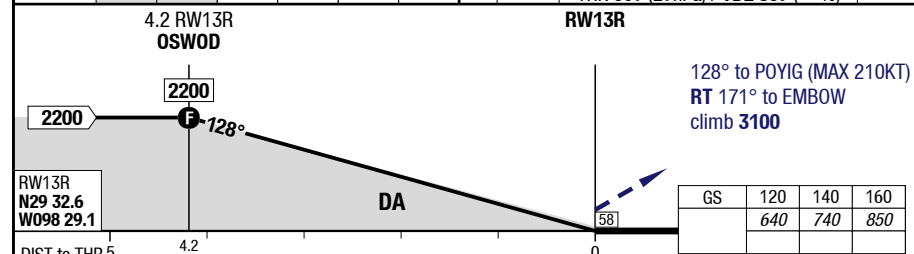
3.00°				3.7	3	2	04	2592 G 46	60 HL	15 HL
RW04				2000	1790	1470	ML-S	THR 786 (28hPa) / TDZ 786 (---%)	-0.4%	
3.7 RW04 ZEPUT										
2000										
RW04 N29 31.4 W098 28.2										
DIST to THR 5										
DA										
037° to BISGE LT 030° to SHEPE climb 3500										
GS 120 140 160 640 740 850										

7-60

## RNAV (RNP) Z 13R



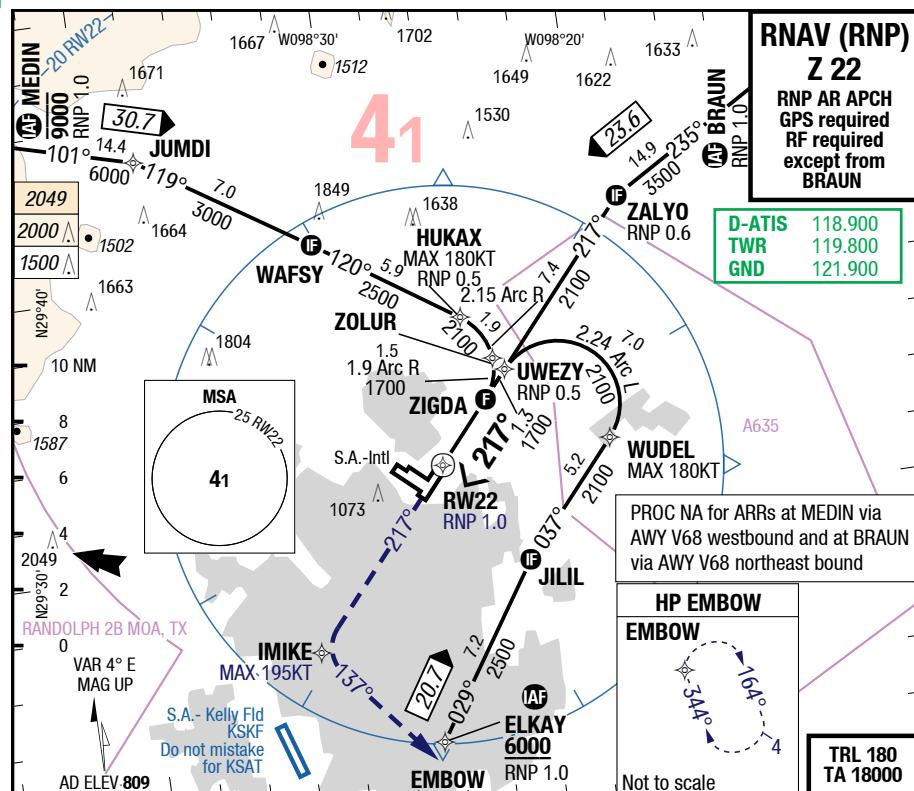
3.00° <b>RW13R</b>			4.2	4	3	2	 <p>3.00° 60 HL 2591 G 46 15 HL 13R HL-P2F THR 809 (29hPa) / TDZ 809 (---%) -0.4%</p>
			2200	2140	1830	1510	



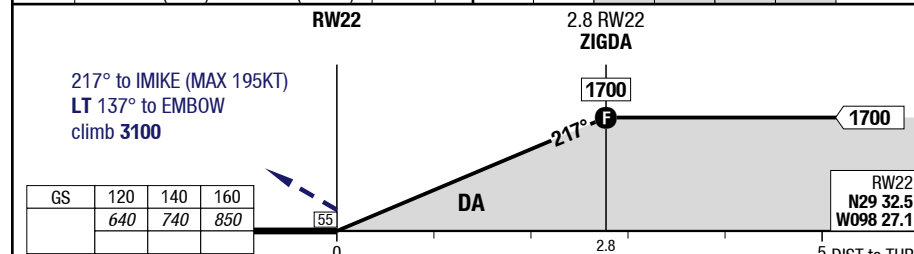
<div> <div>TC-RRP</div> <div>13R</div> </div>		RNAV	RNAV				Circling TERPS
		RNP 0.15 VNAV 1)	RNP 0.30 VNAV 1)				
C	ft - ft/SM ft	350 - 3000R/0.63V <b>1150</b>	500 - 6000R/1.25V <b>1310</b>				Not published
D	ft - ft/SM ft	350 - 3000R/0.63V <b>1150</b>	500 - 6000R/1.25V <b>1310</b>				Not published

1) Uncompensated BARO VNAV NA below -4°C (25°F) or above 54°C (130°F)

## RNAV (RNP) Z 22



60 HL 15 HL 3.0° +0.4% TDZ 770 (---%) / THR 754 (27hPa)	22	2 1460	2.8 1700	3.00° RW22
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22		RNAV RNP 0.15 VNAV 1)	RNAV RNP 0.30 VNAV 1)				Circling TERPS
C	ft - ft/SM ft	350 - 1.13V 1120	550 - 2.0V 1320				Not published
D	ft - ft/SM ft	350 - 1.13V 1120	550 - 2.0V 1320				Not published

1) Uncompensated BARO VNAV NA below -2°C (29°F) or above 54°C (130°F)

Effective 02-MAR-2017

23-FEB-2017

SAT-KSAT

United States San Antonio San Antonio Intl

NIL

IAC

IAC

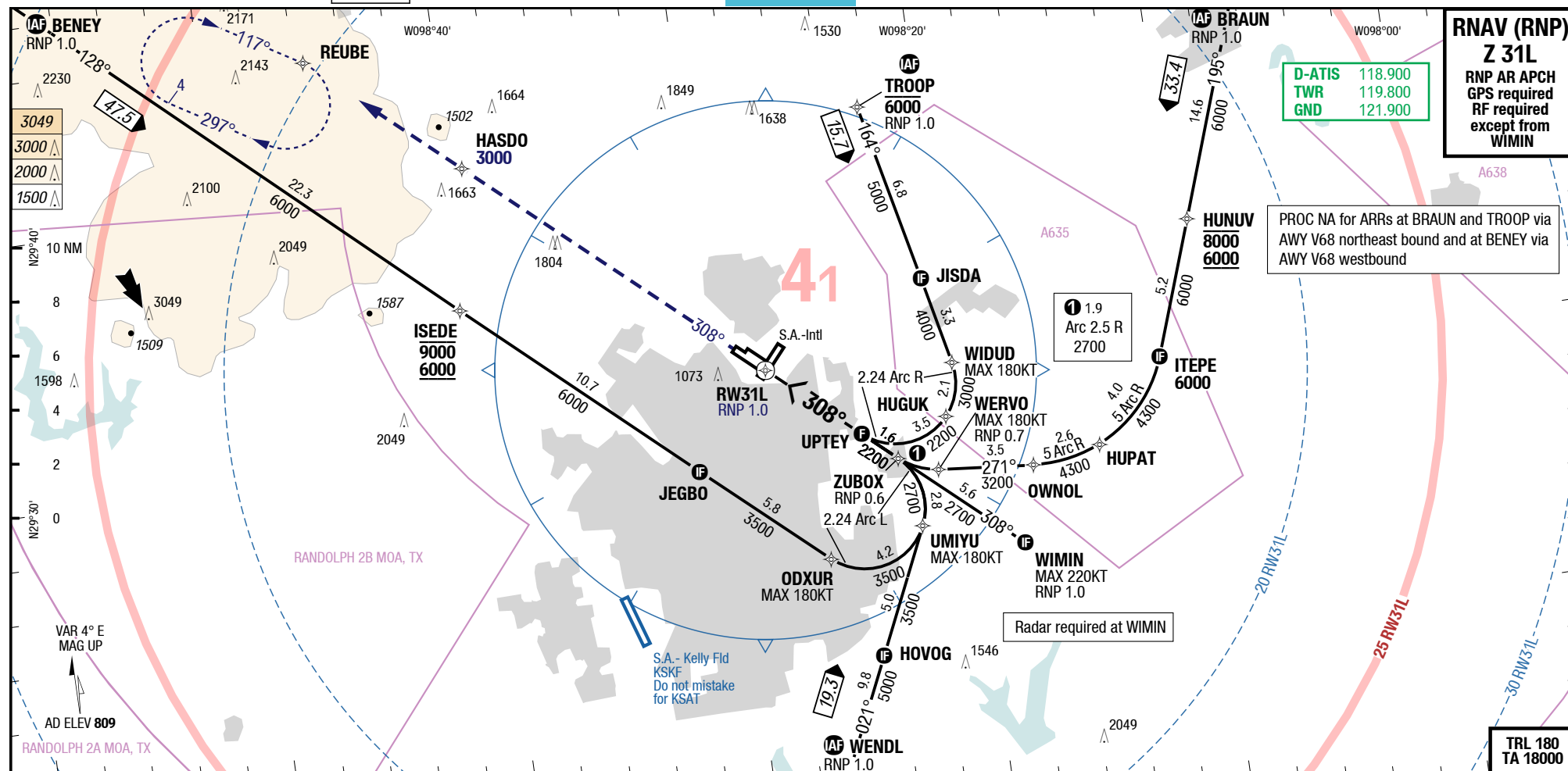
San Antonio Intl San Antonio United States

NIL

RNAV (RNP) Z 31L

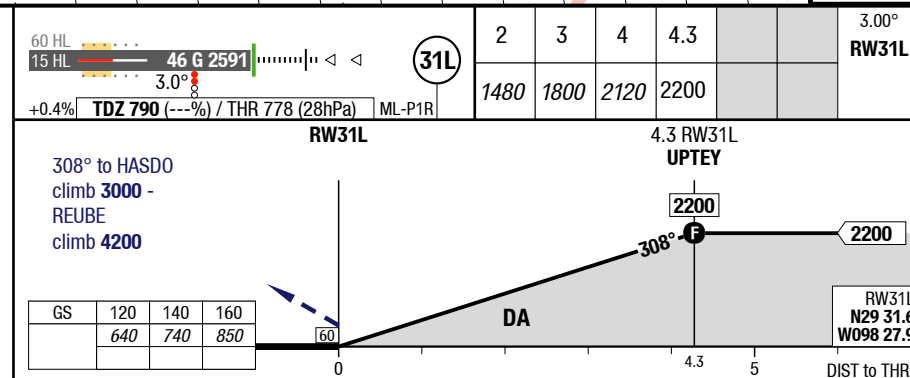
7-70

RNAV (RNP) Z 31L



31L		RNAV					Circling TERPS
		RNP 0.30 VNAV 1)					
C	ft - ft/SM	450 - 5000R/1.0V					Not published
		1240					
D	ft - ft/SM	450 - 5000R/1.0V					Not published
		1240					

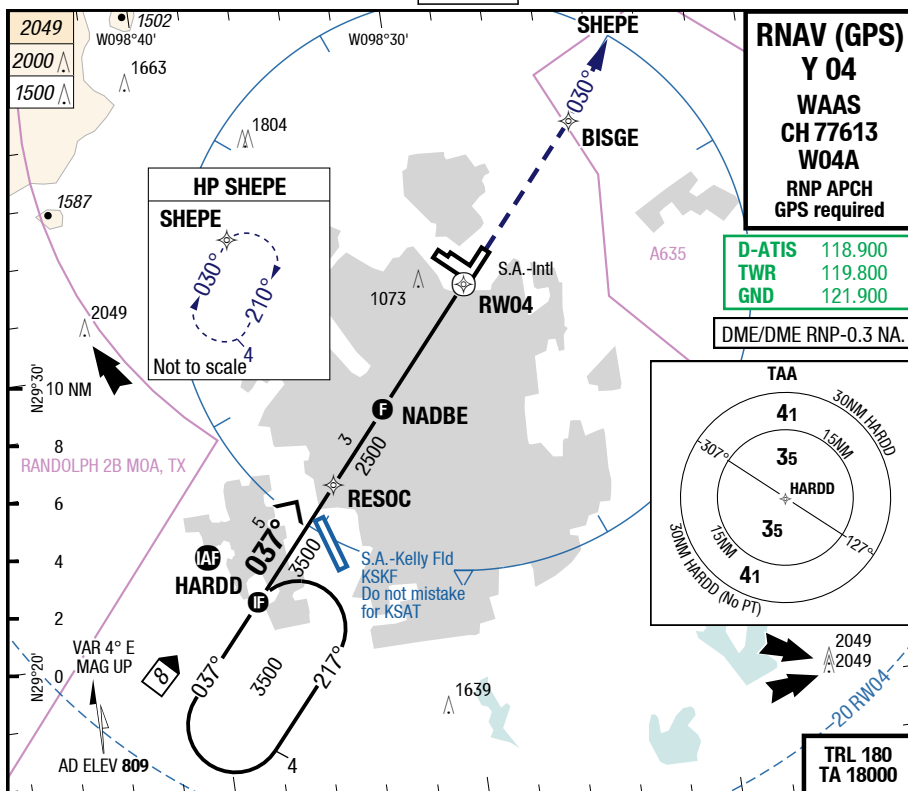
1) Uncompensated BARO VNAV NA below -4°C (25°F) or above 54°C (130°F)



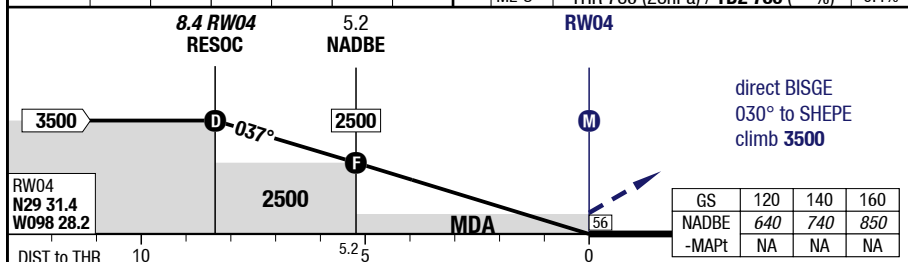


## SAT-KSAT

7-90

**RNAV (GPS) Y 04**

3.00° <b>RW04</b>	8.4	6	5	4	3	2	<div style="text-align: center;"> <p>427 83.0° -0.4%</p> </div>
	3500	2760	2440	2120	1800	1480	



<div> <div>04</div> <div>TERPS</div> </div>		RNAV GPS LPV	RNAV GPS VNAV <sup>1)</sup>	RNAV GPS VNAV APL U/S <sup>1)</sup>	RNAV GPS LNAV	Circling <sup>2)</sup>
		TERPS				
C	ft - ft/SM ft	200 - 4000R/0.75V <b>990</b>	420 - 6000R/1.25V <b>1210</b>	420 - 1.38V <b>1210</b>	500 - 6000R/1.25V <b>1280</b>	600 - 1.5V <b>1410</b>
D	ft - ft/SM ft	200 - 4000R/0.75V <b>990</b>	420 - 6000R/1.25V <b>1210</b>	420 - 1.38V <b>1210</b>	500 - 6000R/1.25V <b>1280</b>	700 - 2.25V <b>1510</b>

1) Uncompensated BARO VNAV NA below -4°C (25°F) or above 54°C (130°F)

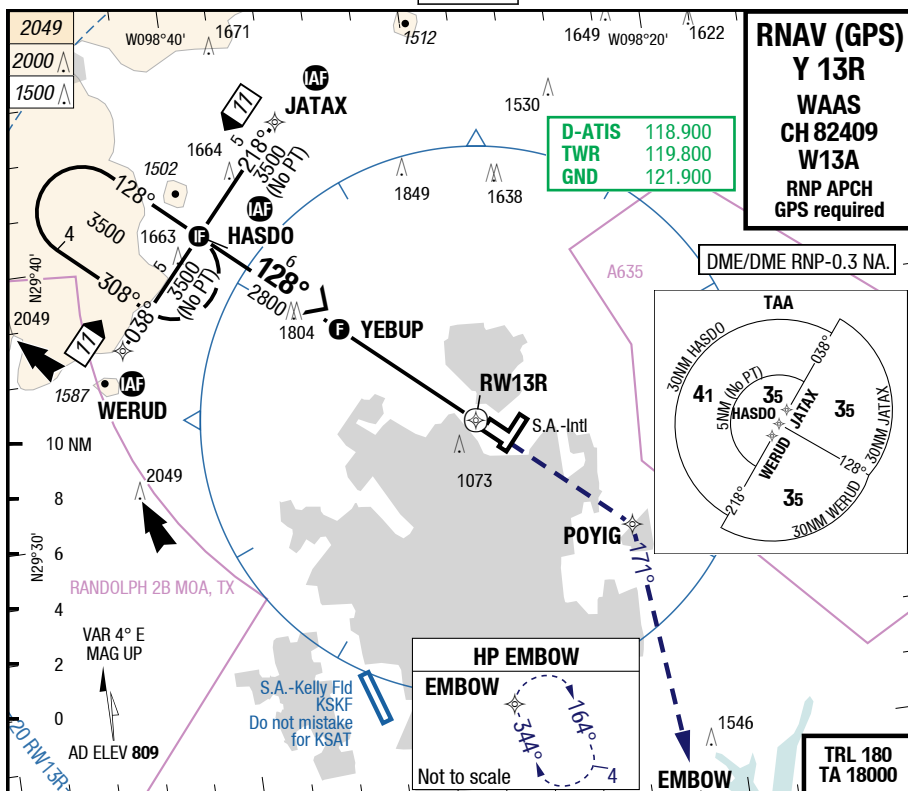
2) Clockwise RWY 13R to RWY 04 only



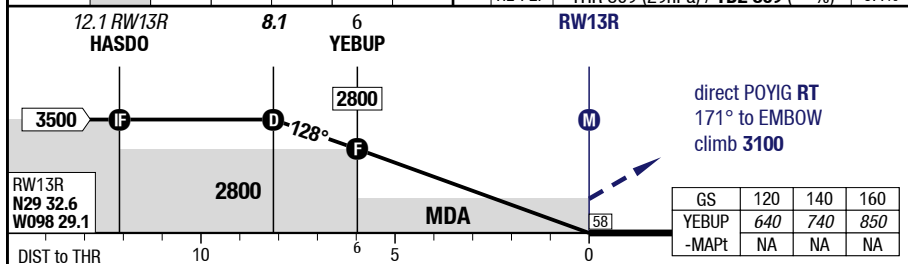
## SAT-KSAT

**7-100**

## RNAV (GPS) Y 13R



3.00° <b>RW13R</b>		8.1	7	5	4	3	
		3500	3140	2490	2170	1840	



13R		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS VNAV APL U/S 1)	RNAV GPS LNAV	RNAV GPS LNAV APL U/S	Circling 2)
TERPS							TERPS
C	ft - ft/SM ft	300 - 2400R/0.5V <b>1110</b>	540 - 1.38V <b>1340</b>	540 - 1.75V <b>1340</b>	820 - 2.0V <b>1620</b>	820 - 2.5V <b>1620</b>	820 - 2.5V <b>1620</b>
D	ft - ft/SM ft	300 - 2400R/0.5V <b>1110</b>	540 - 1.38V <b>1340</b>	540 - 1.75V <b>1340</b>	820 - 2.0V <b>1620</b>	820 - 2.5V <b>1620</b>	820 - 2.75V <b>1620</b>

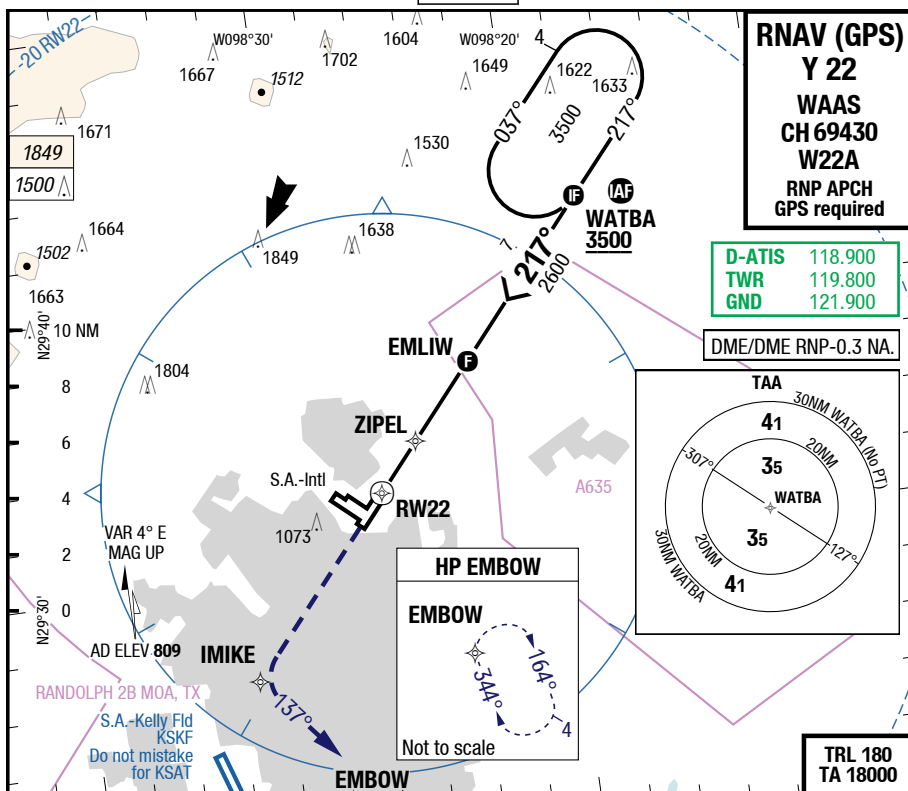
1) Uncompensated BARO VNAV NA below -2°C (29°F) or above 54°C (130°F)

2) Clockwise RWY 13R to RWY 04 only

## SAT-KSAT

7-110

## RNAV (GPS) Y 22



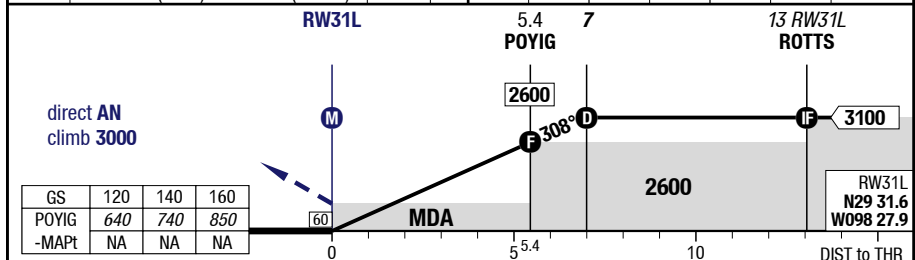
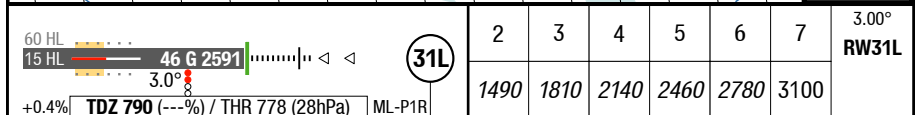
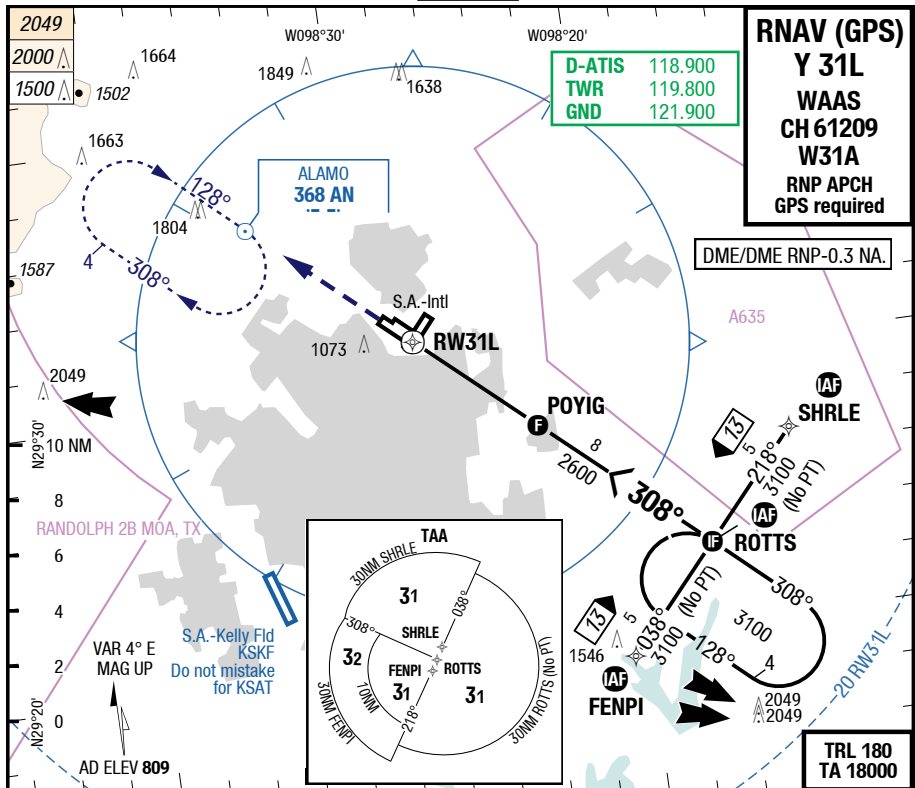
1) Uncompensated BARO VNAV NA below -4°C (25°F) or above 54°C (130°F)

2) Clockwise RWY 13R to RWY 04 only

# SAT-KSAT

**7-120**

## RNAV (GPS) Y 31L



31L		RNAV GPS LPV	RNAV GPS LPV APL U/S	RNAV GPS VNAV 1)	RNAV GPS VNAV APL U/S 1)	RNAV GPS LNAV	Circling 2)
							TERPS
C	ft - ft/SM ft	420 - 5000R/1.0V <b>1210</b>	420 - 1.38V <b>1210</b>	460 - 6000R/1.25V <b>1250</b>	460 - 1.5V <b>1250</b>	570 - 1.25V <b>1360</b>	600 - 1.75V <b>1410</b>
D	ft - ft/SM ft	420 - 5000R/1.0V <b>1210</b>	420 - 1.38V <b>1210</b>	460 - 6000R/1.25V <b>1250</b>	460 - 1.5V <b>1250</b>	570 - 1.25V <b>1360</b>	700 - 2.25V <b>1510</b>

1) Uncompensated BARO VNAV NA below -2°C (29°F) or above 54°C (130°F)

2) Clockwise RWY 13R to RWY 04 only

Changes: MIN, WPT SHRLE, Track, FAT, VAR, TAA, AMDT No

AMDT 1B

**SAT-KSAT**

7-130

**WxMinima Overflow**

<b>13R</b>		<b>Sidestep 13L</b>					
<b>TERPS</b>							
C	ft - ft/SM ft	810 - 2.5V <b>1600</b>					
D	ft - ft/SM ft	810 - 2.5V <b>1600</b>					
<b>31L</b>		<b>RNAV GPS</b>					
<b>TERPS</b>		LNAV APL U/S					
C	ft - ft/SM ft	570 - 1.75V <b>1360</b>					
D	ft - ft/SM ft	570 - 1.75V <b>1360</b>					