

GENERAL

Operational Hours

ATS Hours: H24

AD OPS Hours: Attended continuously

Airport Information

RFF: FAA Index A / CAT 5

Fuel: JET A

PCN: RWY 04/22: 110/R/B/W/T
RWY 17L/35R: 12/R/C/W/T
RWY 17R/35L: 120/R/B/W/T

Operation

Traffic Note

24H PPR for ACFT with wingspan 52m /171ft or above.

RWY Restriction

RWY 17L/35R not AVBL for ACFT OPS with more than 9 PAX seats.

RWY 17L/35R between TWY C and G can be used as TWY.

TWY Restriction

TWY B east of RWY 17R/35L not AVBL for ACFT OPS with more than 9 PAX seats.

TWY B unlighted east of RWY 17R/35L, use HJ only.

Noise Abatement Procedure

Minimize flight and high PWR settings over populated areas, especially SE of AD.

Jet ACFT restricted to straight-in, full stop LDG only between 0400-1300± daily, SUN 0400-1900±.

On DEP jet ACFT MNM use of afterburners and climb RWY HDG to 1000ft prior to turn.

Climb to pattern ALT as soon as possible.

Warnings

MIL ACFT at 1600ft ASL making overhead APCHs.

Caution do not mistake street lights located 213m / 700ft east of RWY 17R for APCH lights.

Birds in vicinity of AD.

ARRIVAL

Speed

MAX IAS 250KT below 10000ft.

Communication

Air carrier OPS of 9 PAX or more notify 15min prior ARR.

COM Failure: See CRAR.

Arrival Procedure

VFR Traffic Pattern

RWY 35R/L, 04 right-hand circuit.

Traffic pattern ALT: 1067ft AGL rectangular, 1567ft AGL overhead, 567ft AGL light ACFT.

Non-standard GP intercept position on

RWY 22

GP intercepts RWY 22 at *314m / 1030ft* after landing threshold.

Remaining DIST beyond GP is *2125m / 6971ft*.

RWY 35L

GP intercepts RWY 35L at *314m / 1030ft* after landing threshold.

Remaining DIST beyond GP is *2429m / 7971ft*.

DEPARTURE

Take-off Minima

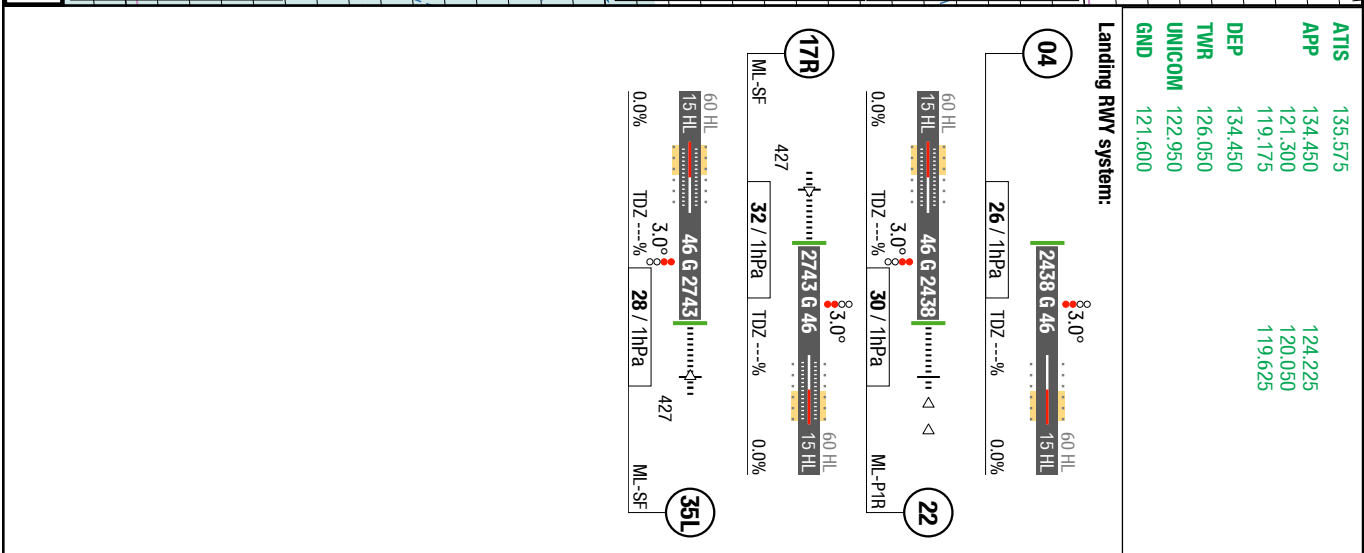
RWY		22	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	MNM climb gradient 3.6% up to 300, or TKOF must occur no later than 1400ft/427m prior to RWY end
3+4 ENG		0 - 2400R/0.5V	SID BLTWY, SID BORRN, SID HOODO, SID INDIE, SID KARRR, SID LURIC, SID MMALT, SID STRYA, SID STYCK, SID WATFO, SID WYLSN: MNM climb gradient 8.3% up to 540
RWY		04, 17R/35L	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	SID BLTWY, SID BORRN, SID HOODO, SID INDIE, SID KARRR, SID LURIC, SID MMALT, SID STRYA, SID STYCK, SID WATFO, SID WYLSN: MNM climb gradient 8.3% up to 540

Speed

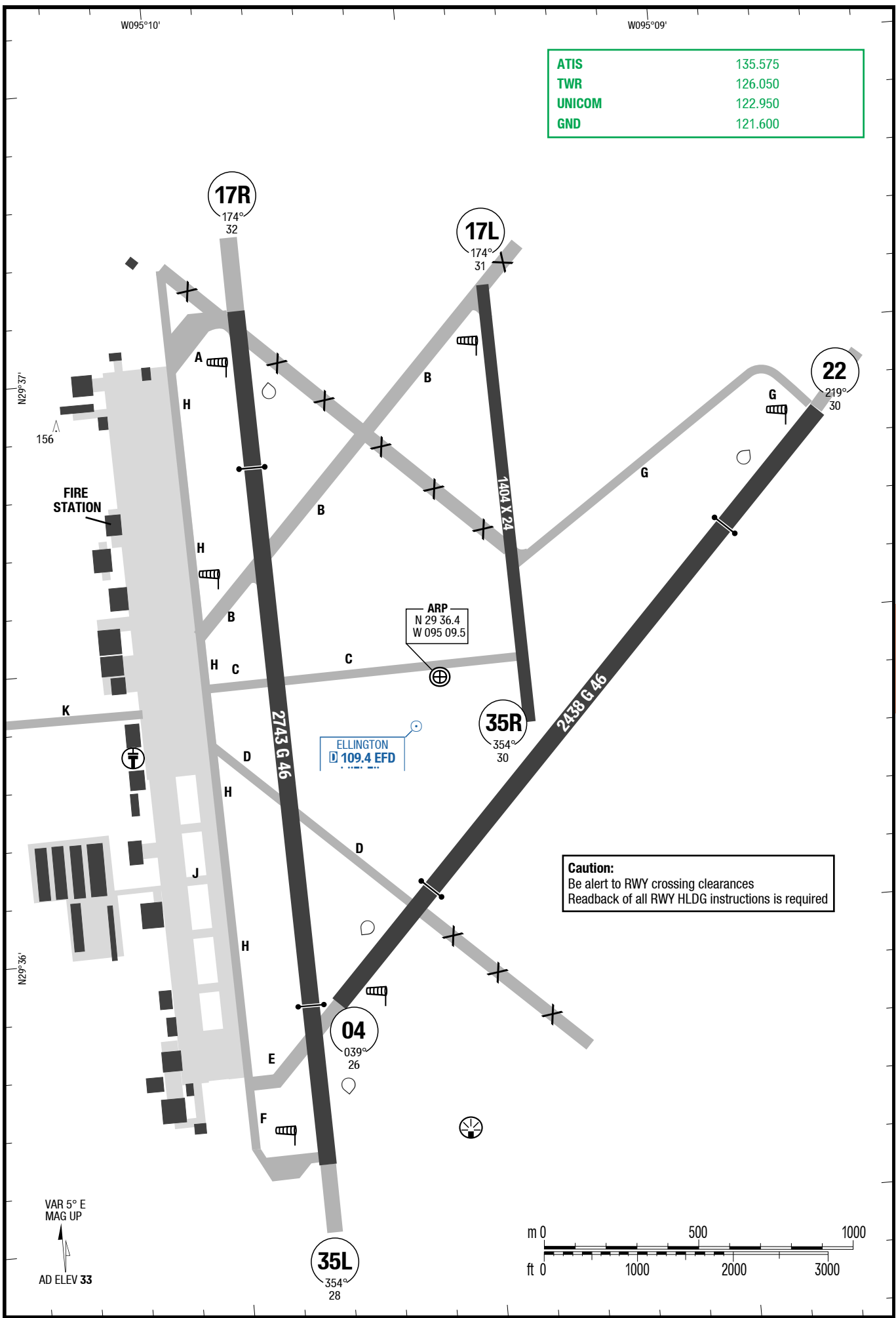
MAX IAS 250KT below 10000ft.

Communication

COM Failure: See CRAR.



ATIS	135.575
TWR	126.050
UNICOM	122.950
GND	121.600



Changes: RVR

12-JUL-2018

United States **Houston** Ellington

RNAV BORRN 3 / KARRR 4

SID

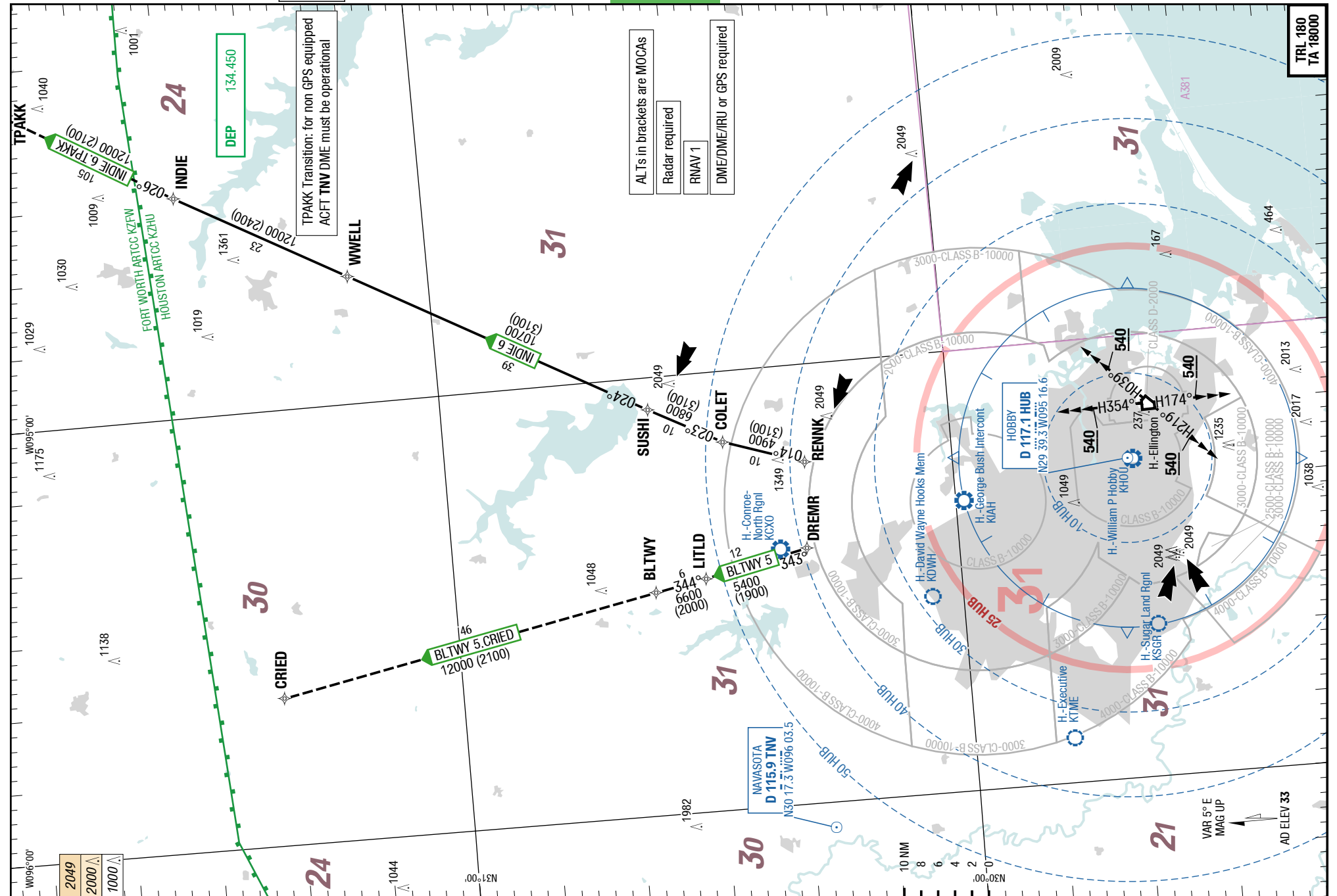
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Ellington **Houston** United States

RNAV BORRN 3 / KARRR 4

EFD-KEFD

4-10

RNAV BLTWY 5 / INDIE 6**RNAV BLTWY 5 / INDIE 6**

Changes: ASP, PROC renumbered

Effective 19-JUL-2018

12-JUL-2018

EFD-KEFD

United States Houston Ellington

SID

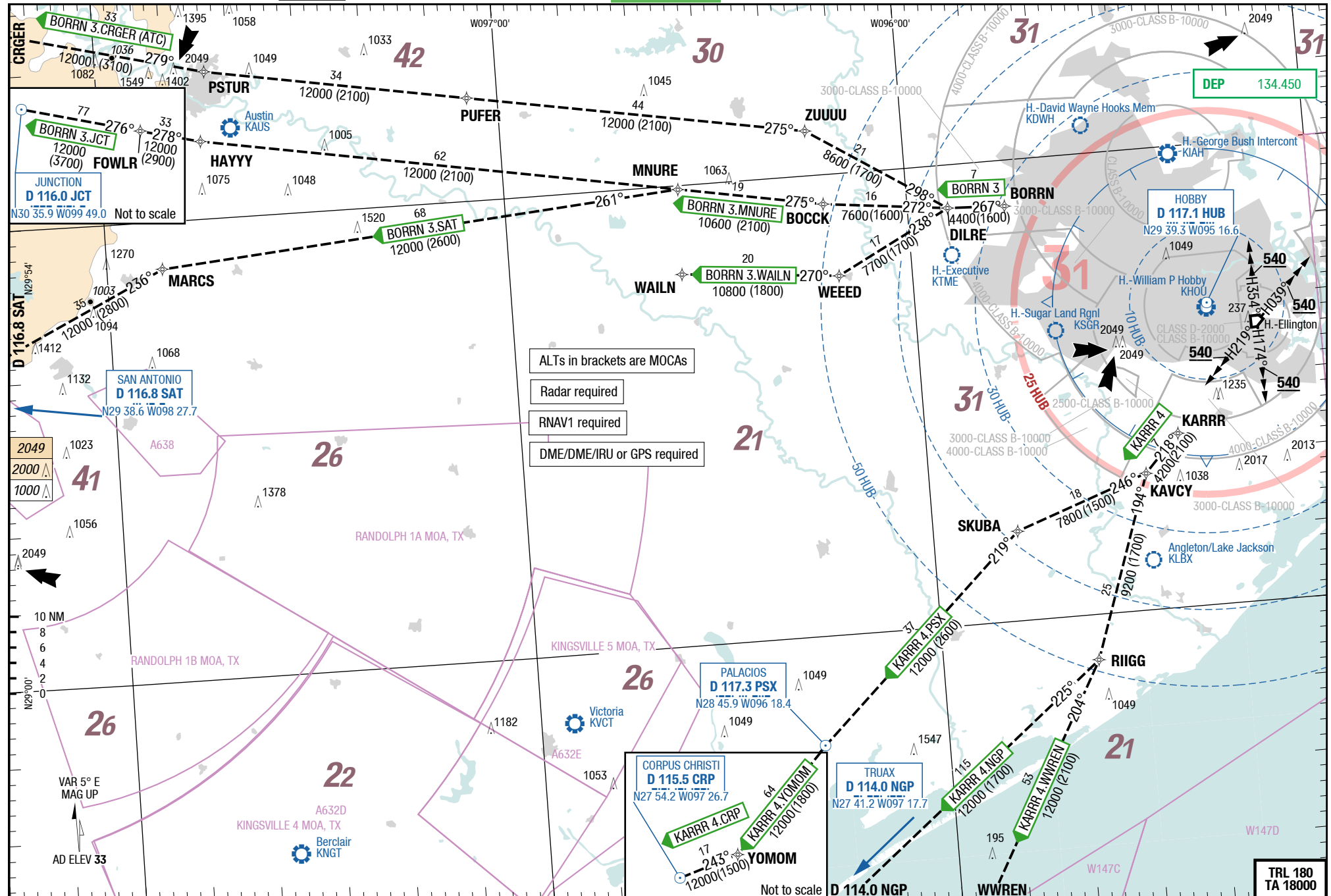
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Ellington Houston United States

4-20

RNAV BORRN 3 / KARRR 4

RNAV BORRN 3 / KARRR 4



Changes: Nil



Effective 19-JUL-2018

12-JUL-2018

EFD-KEFD

United States Houston Ellington

RNAV STYCK 6

4-50

RNAV MMALT 4

SID
SID

Ellington Houston United States

RNAV STYCK 6

RNAV MMALT 4

DEP 134,450

2049
2000
1000

Alt's in brackets are MOCAS
Radar required
RNAV 1
DME/DME/IRU or GPS required

31

31

20

24

LAKE CHARLES
D 113.4 LCH
N30 08.5 W093 06.3

BLING

07°5'

MMALT 4 LCH (ATC)

12000 (1700)

48

D 113.4 LCH

HOURN

07°7'

10600 (1600)

15

SPINY

07°8'

MMALT 4 GUSTI (ATC)

12000 (1500)

60

GUSTI

07°5'

MMALT 4 LCH (ATC)

12000 (1700)

48

D 113.4 LCH

Beaumont/Port Arthur
KBPT

H. George Bush Intercont
KHH

25 HUB

30 HUB

40 HUB

50 HUB

60 HUB

70 HUB

80 HUB

90 HUB

100 HUB

110 HUB

120 HUB

130 HUB

140 HUB

150 HUB

160 HUB

170 HUB

180 HUB

190 HUB

200 HUB

210 HUB

220 HUB

230 HUB

240 HUB

250 HUB

260 HUB

270 HUB

280 HUB

290 HUB

300 HUB

MMALT

086°

MMALT 4

4700 (1600)

9

MOOKI

090°

10600 (3100)

15

JAAYE

08°7'

12000 (1700)

14

SPINY

07°8'

MMALT 4 GUSTI (ATC)

12000 (1500)

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12000 (1500)

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07°5'

MMALT 4 LCH (ATC)

12000 (1700)

48

D 113.4 LCH

MMALT

086°

MMALT 4

4700 (1600)

9

MOOKI

090°

10600 (3100)

15

JAAYE

08°7'

12000 (1700)

14

SPINY

07°8'

MMALT 4 GUSTI (ATC)

12000 (1500)

60

GUSTI

12-JUL-2018

EFD-KEFD

4-70

United States **Houston** Ellington

AEX 1 / LFK 2

RNAV WYLSN 6

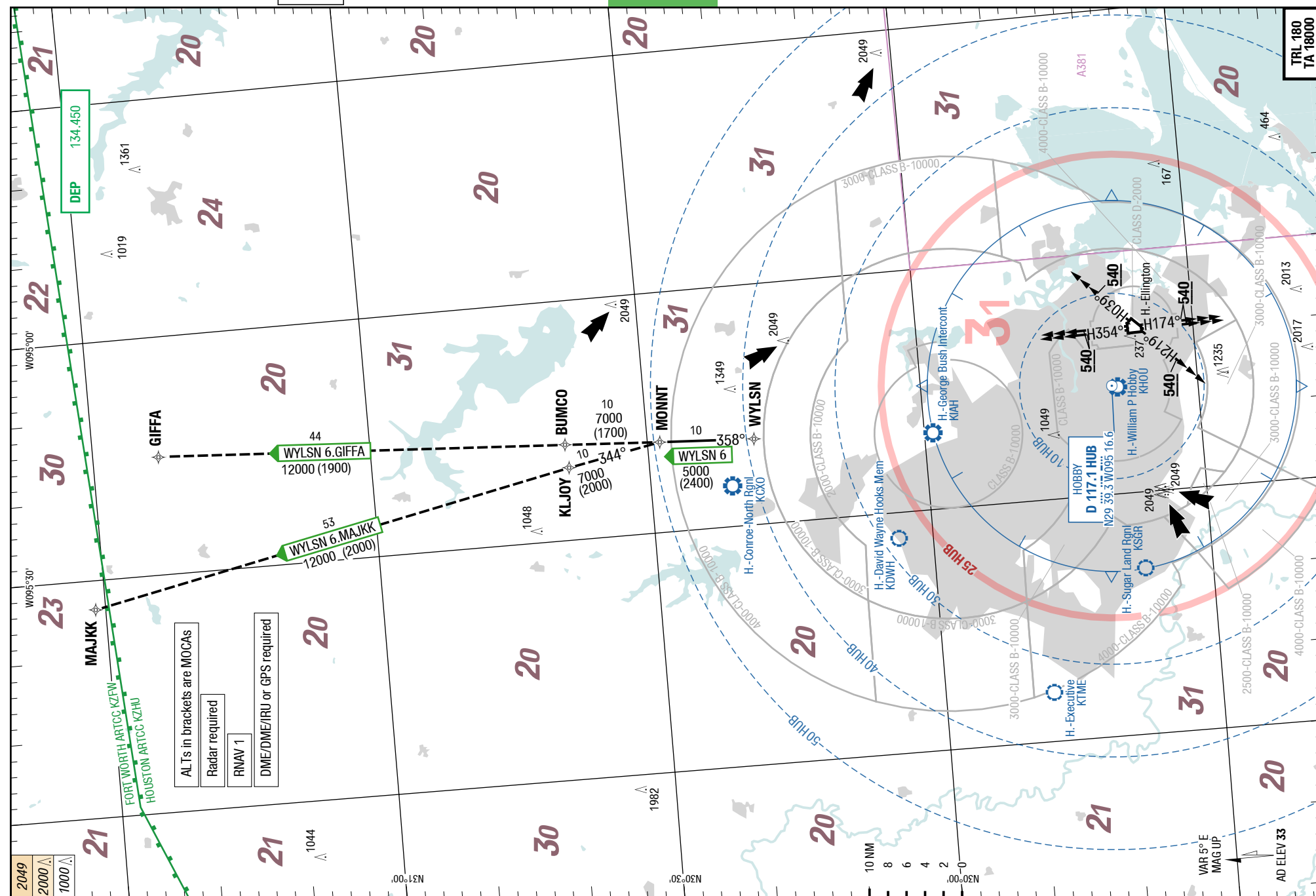
cid

CID

Ellington **Houston** United States

AEX 1 / LFK 2

RNAV WYLSN 6

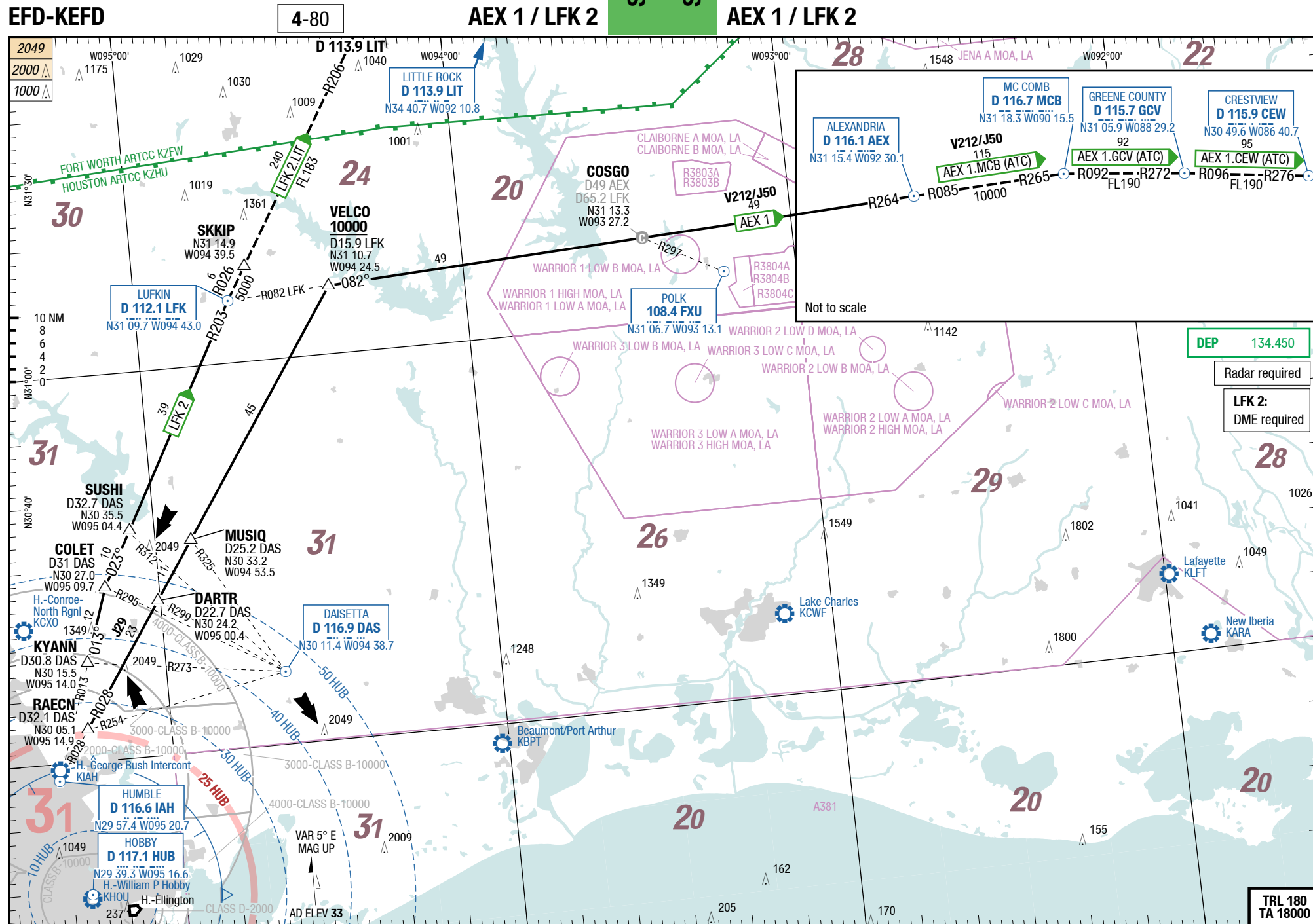


Changes: ASP, PROC renumbered

EFD-KEFD

SID

AEX 1 / LFK 2



Changes: Nil

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15-JUN-2017

United States **Houston** Ellington

IDU 9 / NGP 7 / PSX 9

SID

SID

Ellington **Houston** United States

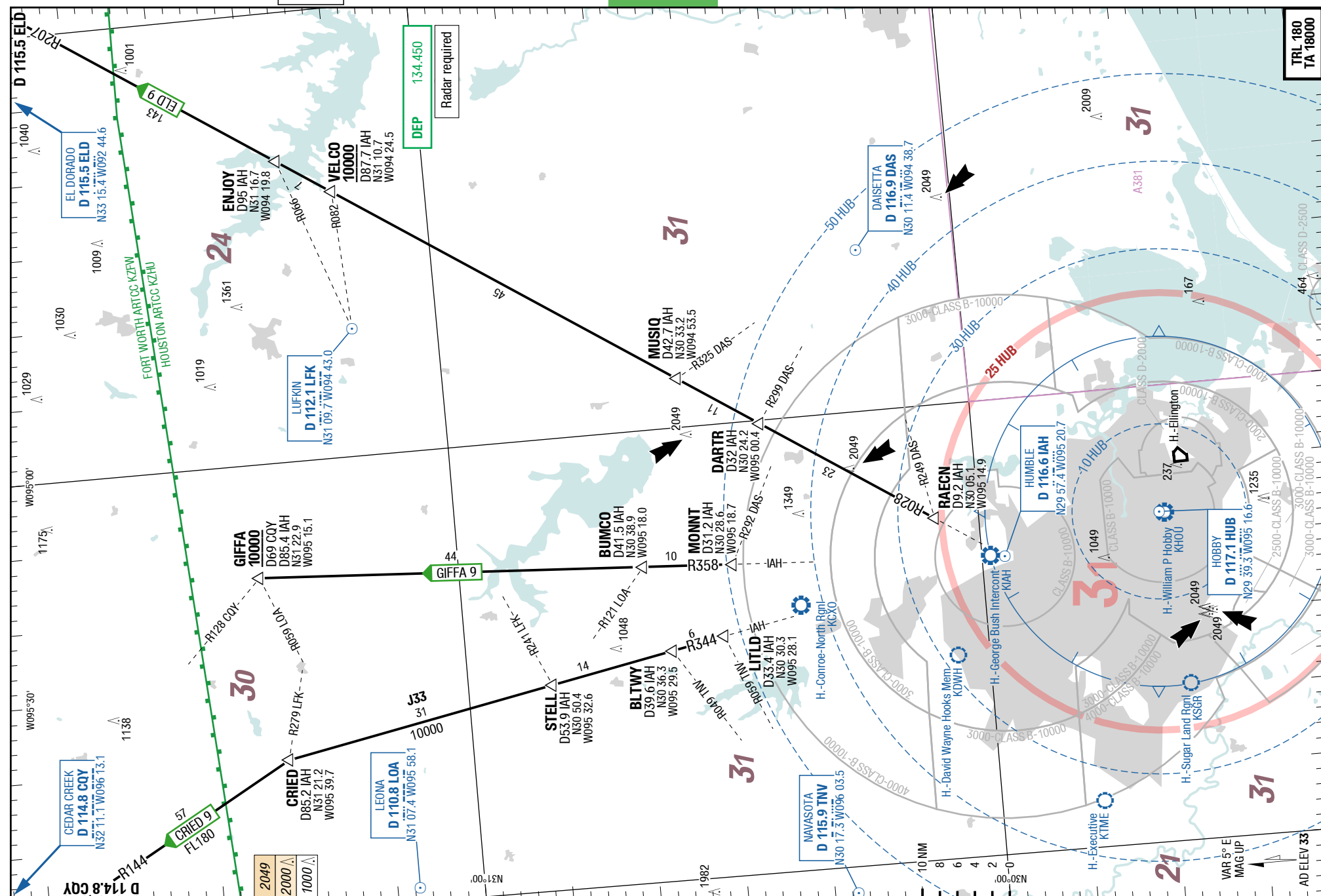
IDU 9 / NGP 7 / PSX 9

EFD-KEFD

4-90

CRIED 9 / GIFFA 9 / ELD 9

CRIED 9 / GIFFA 9 / ELD 9



Changes: ALT, PROC renumbered

15-JUN-2017

United States **Houston** Ellington

Ellington **Houston** United States

EFD-KEFD

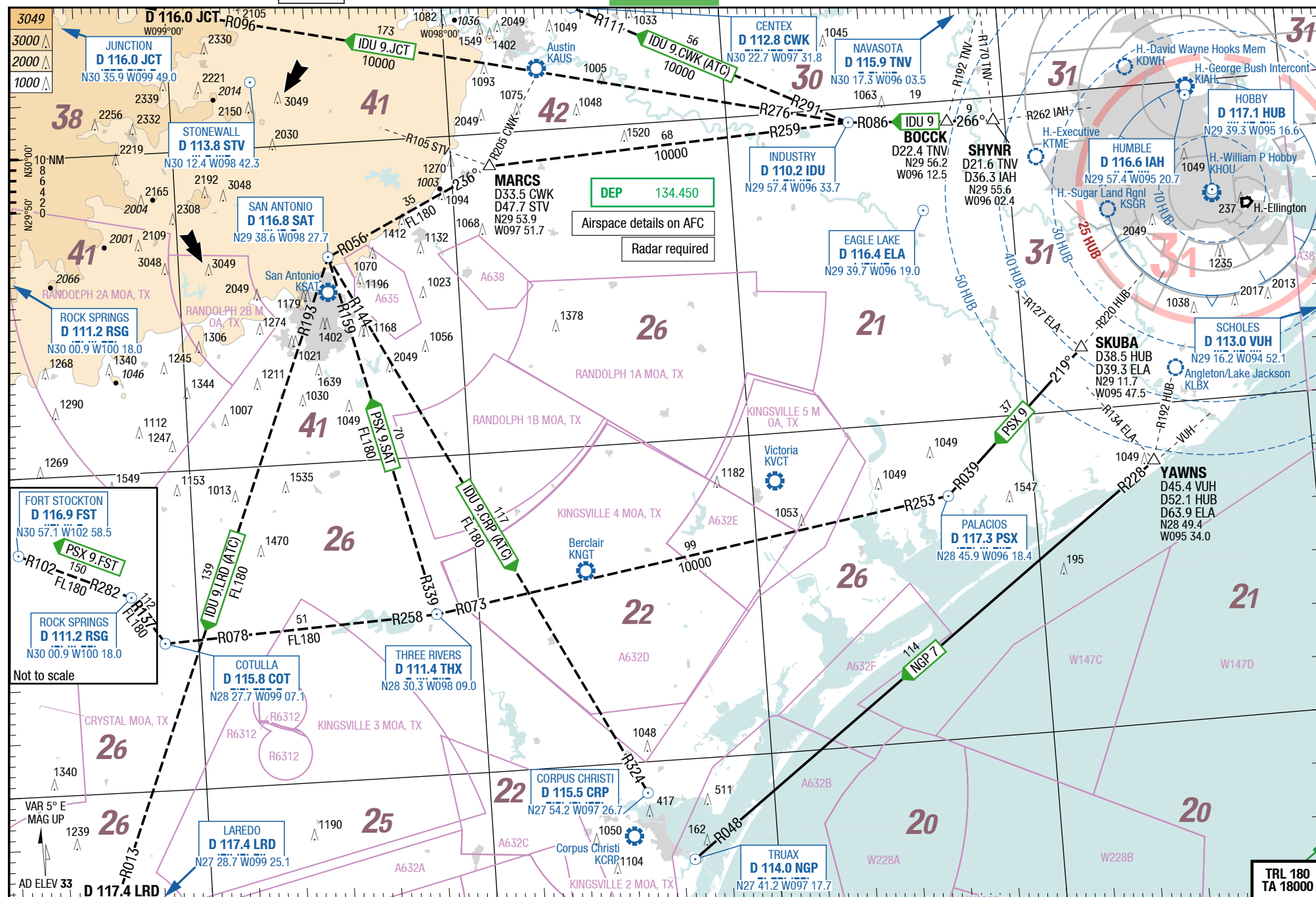
4-100

IDU 9 / NGP 7 / PSX 9

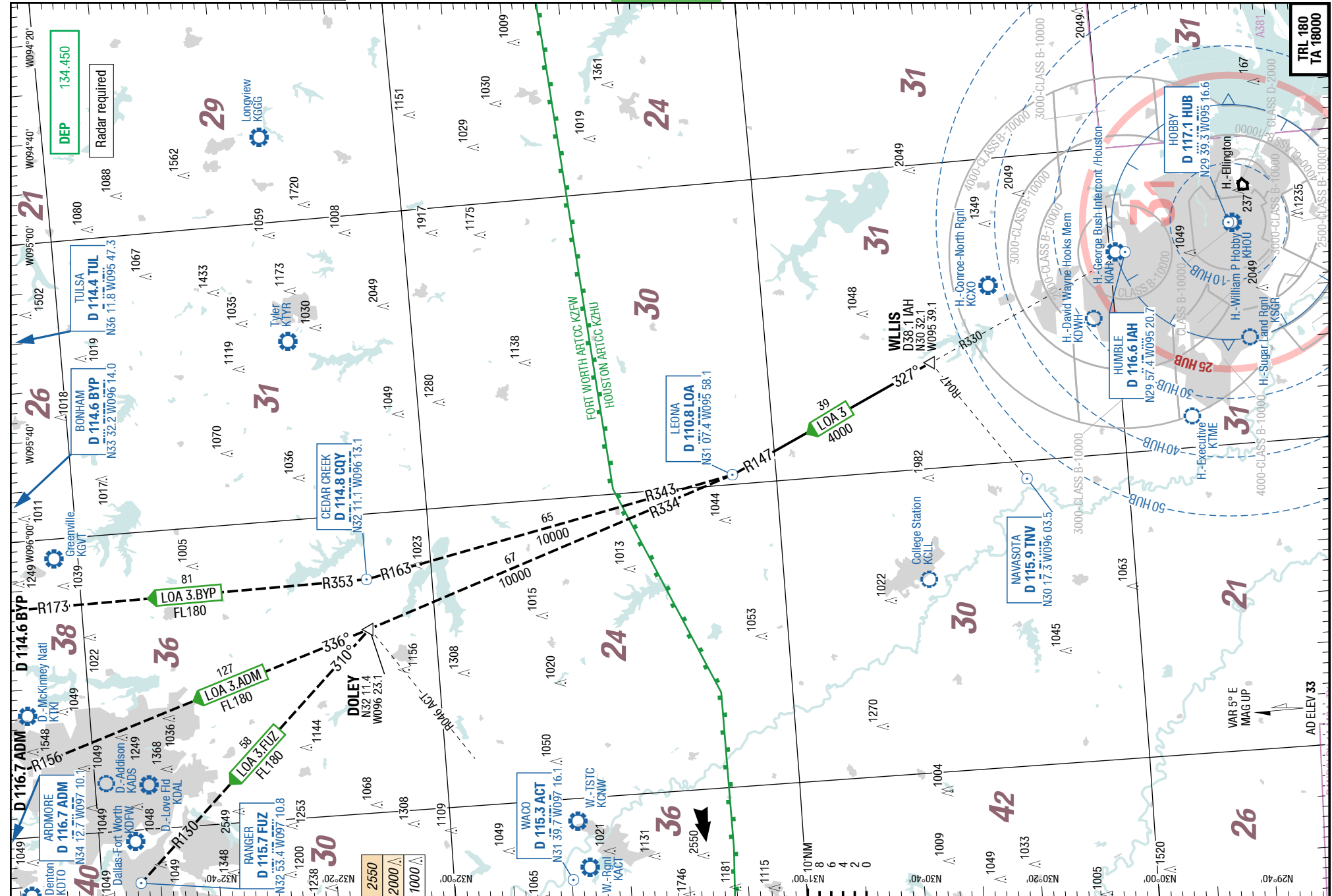
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SID

IDU 9 / NGP 7 / PSX 9



Changes: Track, PROC renumbered



EFD-KEFD

5-10

RNAV BLTWY 5 / INDIE 6

BLTWY 5 / INDIE 6

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
BLTWY 5 134.450 ①		
		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect radar vectors to DREMR - 343° LITLD - BLTWY	
RWYs 17L/17R	H174° [A540+] - H174° expect radar vectors to DREMR - 343° LITLD - BLTWY	
RWY 22	H219° [A540+] - H219° expect radar vectors to DREMR - 343° LITLD - BLTWY	
RWYs 35L/35R	H354° [A540+] - H354° expect radar vectors to DREMR - 343° LITLD - BLTWY	
	TRANSITION	
	CRIED BLTWY - CRIED	
INDIE 6 134.450 ①		
		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect radar vectors to RENNK - 014° COLET - SUSHI - WWELL - INDIE	
RWYs 17L/17R	H174° [A540+] - H174° expect radar vectors to RENNK - 014° COLET - SUSHI - WWELL - INDIE	
RWY 22	H219° [A540+] - H219° expect radar vectors to RENNK - 014° COLET - SUSHI - WWELL - INDIE	
RWYs 35L/35R	H354° [A540+] - H354° expect radar vectors to RENNK - 014° COLET - SUSHI - WWELL - INDIE	
	TRANSITION	
	TPAKK INDIE - TPAKK	

① Expect filed ALT 10 MIN after DEP

EFD-KEFD

5-20

RNAV BORRN 3 / KARRR 4

BORRN 3 / KARRR 4

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
BORRN 3 134.450 ①		
		initial climb by ATC
RWY 04	HDG 039° to MNM 540 - expect radar vectors to BORRN - DILRE	
RWYs 17L/17R	HDG 174° to MNM 540 - expect radar vectors to BORRN - DILRE	
RWY 22	HDG 219° to MNM 540 - expect radar vectors to BORRN - DILRE	
RWYs 35L/35R	HDG 354° to MNM 540 - expect radar vectors to BORRN - DILRE	
	TRANSITION	
	CRGER (ATC) DILRE - ZUUUU - PUFER - PSTUR - CRGER	
	JUNCTION (JCT) DILRE - BOCKK - MNURE - HAYYY - FOWLR - JCT	
	SAN ANTONIO (SAT) DILRE - BOCKK - MNURE - MARCS - SAT	
	WAILN DILRE - WEEED - WAILN	
KARRR 4 134.450 ①		
		initial climb by ATC
RWY 04	HDG 039° to MNM 540 - expect radar vectors to KARRR - KAVCY	
RWYs 17L/17R	HDG 174° to MNM 540 - expect radar vectors to KARRR - KAVCY	
RWY 22	HDG 219° to MNM 540 - expect radar vectors to KARRR - KAVCY	
RWYs 35L/35R	HDG 354° to MNM 540 - expect radar vectors to KARRR - KAVCY	
	TRANSITION	
	CORPUS CHRISTI (CRP) KAVCY - SKUBA - PSX - YOMOM - CRP	
	PALACIOS (PSX) KAVCY - SKUBA - PSX	
	TRAUX (NGP) KAVCY - RIIGG - NGP	
	WWREN KAVCY - RIIGG - WWREN	
	YOMOM KAVCY - SKUBA - PSX - YOMOM	

① Expect filed altitude 10 MIN after departure

EFD-KEFD

5-30

RNAV H00D0 5 (ATC) / WATF0 4

H00D0 5 / WATF0 4

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
H00D0 5 (ATC) 134.450 ①		
		initial climb by ATC
RWY 04	HDG 039° to MNM 540 - expect radar vectors to VUH - H00D0	
RWYs 17L/17R	HDG 174° to MNM 540 - expect radar vectors to VUH - H00D0	
RWY 22	HDG 219° to MNM 540 - expect radar vectors to VUH - H00D0	
RWYs 35L/35R	HDG 354° to MNM 540 - expect radar vectors to VUH - H00D0	
	TRANSITION	
	BOWFN H00D0 - SBIRD - CF00D - BOWFN	
	CF00D H00D0 - SBIRD - CF00D	
	HARVEY (HRV) H00D0 - SBIRD - CF00D - BOWFN - HRV	
	LEEVILLE (LEV) H00D0 - SBIRD - CF00D - BOWFN - LEV	
	SBIRD H00D0 - SBIRD	
WATF0 4 134.450 ①		
		initial climb by ATC
RWY 04	HDG 039° to MNM 540 - expect radar vectors to WATF0 - VUH	
RWYs 17L/17R	HDG 174° to MNM 540 - expect radar vectors to WATF0 - VUH	
RWY 22	HDG 219° to MNM 540 - expect radar vectors to WATF0 - VUH	
RWYs 35L/35R	HDG 354° to MNM 540 - expect radar vectors to WATF0 - VUH	
	TRANSITION	
	ANKRR VUH - ANKRR	
	KELPP VUH - KELPP	
	MUSYL VUH - MUSYL	

① Expect filed altitude 10 MIN after departure

EFD-KEFD

5-40

RNAV LURIC 6 / STRYA 6

LURIC 6 / STRYA 6

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
LURIC 6 134.450 ①		
		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - VELCO - ENJOY - LURIC	
RWYs 17L/17R	H174° [A540+] - H174° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - VELCO - ENJOY - LURIC	
RWY 22	H219° [A540+] - H219° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - VELCO - ENJOY - LURIC	
RWYs 35L/35R	H354° [A540+] - H354° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - VELCO - ENJOY - LURIC	
	TRANSITION	
	HAWES LURIC - HAWES	
	ORRTH LURIC - ORRTH	
STRYA 6 134.450 ①		
		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - STRYA	
RWYs 17L/17R	H174° [A540+] - H174° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - STRYA	
RWY 22	H219° [A540+] - H219° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - STRYA	
RWYs 35L/35R	H354° [A540+] - H354° expect vectors to KNTKY - 030° PEETY - DARTR - MUSIQ - CLAVN - STRYA	
	TRANSITION	
	DPATY STRYA - DPATY	
	JBULL STRYA - JBULL	
① Expect filed altitude 10 MIN after departure.		

Changes: PROC renumbered

MMALT 4

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
MMALT 4 134.450 ①		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect vectors to MMALT - 086° MOOKI	
RWYs 17L/17R	H174° [A540+] - H174° expect vectors to MMALT - 086° MOOKI	
RWY 22	H219° [A540+] - H219° expect vectors to MMALT - 086° MOOKI	
RWYs 35L/35R	H354° [A540+] - H354° expect vectors to MMALT - 086° MOOKI	
	TRANSITION	
	GUSTI (ATC) MOOKI - JAAYE - SPINY - GUSTI	
	LAKE CHARLES (LCH) (ATC) MOOKI - HOURN - BLING - LCH	
	WHITE LAKE (LLA) MOOKI - YOKEM - SBI - LLA	

① Expect filed ALT 10 MIN after departure

STYCK 6

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
STYCK 6 134.450 ①		
		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect vectors to BBYSE - 329° SPICR - WLLIS - STYCK	
RWYs 17L/17R	H174° [A540+] - H174° expect vectors to BBYSE - 329° SPICR - WLLIS - STYCK	
RWY 22	H219° [A540+] - H219° expect vectors to BBYSE - 329° SPICR - WLLIS - STYCK	
RWYs 35L/35R	H354° [A540+] - H354° expect vectors to BBYSE - 329° SPICR - WLLIS - STYCK	
	TRANSITION	
	DOLEY STYCK - DOLEY	
	WTSON STYCK - WTSON	

① Expect filed altitude 10 minutes after departure.

WYLSN 6

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
WYLSN 6 134.450 ①		initial climb by ATC
RWY 04	H039° [A540+] - H039° expect vectors to WYLSN - 358° MONNT	
RWYs 17L/17R	H174° [A540+] - H174° expect vectors to WYLSN - 358° MONNT	
RWY 22	H219° [A540+] - H219° expect vectors to WYLSN - 358° MONNT	
RWYs 35L/35R	H354° [A540+] - H354° expect vectors to WYLSN - 358° MONNT	
	TRANSITION	
	GIFFA MONNT - BUMCO - GIFFA	
	MAJKK MOONT - KLJOY - MAJKK	

① Expect filed altitude 10 MIN after departure

EFD-KEFD

5-80

AEX 1 / LFK 2

ALEXANDRIA 1 / LUFKIN 2

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
ALEXANDRIA 1 AEX 1 134.450 ①	Expect radar vectors to RAECN - intercept R028 IAH to DARTR - MUSIQ - VELCO - intercept R082 LFK to COSGO - AEX	VELCO MNM 10000 initial climb by ATC
	TRANSITION	
	CRESTVIEW (CEW) (ATC) AEX - R085 AEX to MCB - R092 MCB to GCV - R096 GCV to CEW	
	GREENE COUNTY (GCV) (ATC) AEX - R085 AEX to MCB - R092 MCB to GCV	
	MC COMB (MCB) (ATC) AEX - R085 AEX to MCB	
LUFKIN 2 LFK 2 134.450 ①	Expect radar vectors to KYANN - intercept R013 IAH to COLET - intercept R203 LFK to SUSHI - LFK	initial climb by ATC
	TRANSITION	
	LITTLE ROCK (LIT) LFK - R026 LFK to SKKIP - LIT	

① Expect filed altitude 10 MIN after departure

15-JUN-2017

EFD-KEFD

5-90

CRIED 9 / GIFFA 9 / ELD 9

SIDPT

CRIED 9 / EL DORADO 9 / GIFFA 9

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
CRIED 9 134.450 ①	Expect radar vectors to LITLD - intercept R344 IAH to BLTWY - STELL - CRIED - LT intercept R144 CQY to CQY	initial climb by ATC
EL DORADO 9 ELD 9 134.450 ①	Expect radar vectors to RAECN - intercept R028 IAH to DARTR - MUSIQ - VELCO - ENJOY - ELD	VELCO MNM 10000 initial climb by ATC
GIFFA 9 134.450 ①	Expect radar vectors to MONNT - intercept R358 IAH to BUMCO - GIFFA	GIFFA MNM 10000 initial climb by ATC

① Expect filed altitude 10MIN after departure.

15-JUN-2017

EFD-KEFD

5-100

IDU 9 / NGP 7 / PSX 9

SIDPT

INDUSTRY 9 / PALACIOS 9 / TRUAX 7

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
INDUSTRY 9 IDU 9 134.450 ①	Expect radar vectors to SHYNR - intercept R086 IDU to BOCKK - IDU	initial climb by ATC
	TRANSITION	
	CENTEX (CWK) (ATC) IDU - R291 IDU to CWK	
	CORPUS CHRISTI (CRP) (ATC) IDU - R259 IDU to MARCS - intercept R056 SAT to SAT - R144 SAT to CRP	
	JUNCTION (JCT) IDU - R276 IDU to JCT	
	LAREDO (LRD) (ATC) IDU - R259 IDU to MARCS - intercept R056 SAT to SAT - R193 SAT to LDR	
PALACIOS 9 PSX 9 134.450 ①	Expect radar vectors to SKUBA - intercept R039 PSX to PSX	initial climb by ATC
	TRANSITION	
	FORT STOCKTON (FST) PSX - R253 PSX to THX - R258 THX to COT - R317 COT to RSG - R282 RSG to FST	
	SAN ANTONIO (SAT) PSX - R253 PSX to THX - R339 THX to SAT	
TRUAX 7 NGP 7 134.450 ①	Expect radar vectors to YAWNS - intercept R228 VOH to NGP	initial climb 4000

① Expect filed altitude 10 minutes after departure

Changes: Track, ALT, PROC renumbered

15-JUN-2017

EFD-KEFD

5-110

LEONA 3 (LOA 3)

SIDPT

LEONA 3

RWYs 04 (039°) / 17L/R (174°) / 22 (219°) / 35L/R (354°)

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
LEONA 3 LOA 3 134.450 ①	Expect radar vectors to WLLIS - intercept R147 LOA to LOA	initial climb by ATC
	TRANSITION	
	ARDMORE (ADM) LOA - R334 LOA to DOLEY - intercept R156 ADM to ADM	
	BONHAM (BYP) LOA - R343 LOA (R163 CQY) to CQY - intercept R353 CQY (R173 BYP) to BYP	
	RANGER (FUZ) LOA - R334 LOA to DOLEY - intercept R130 FUZ to FUZ	

① Expect filed altitude 10 MIN after departure

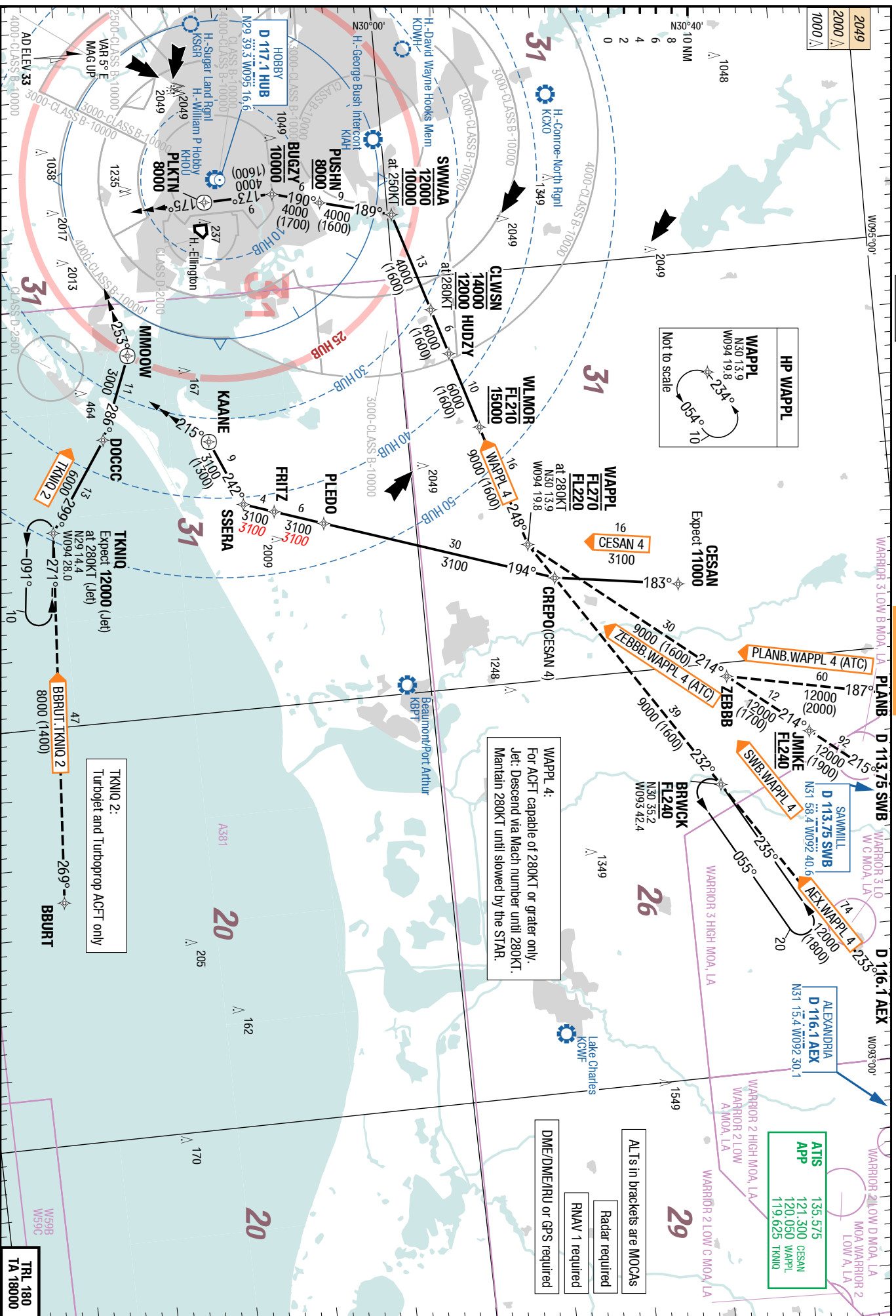
Changes: ALT, PROC renumbered

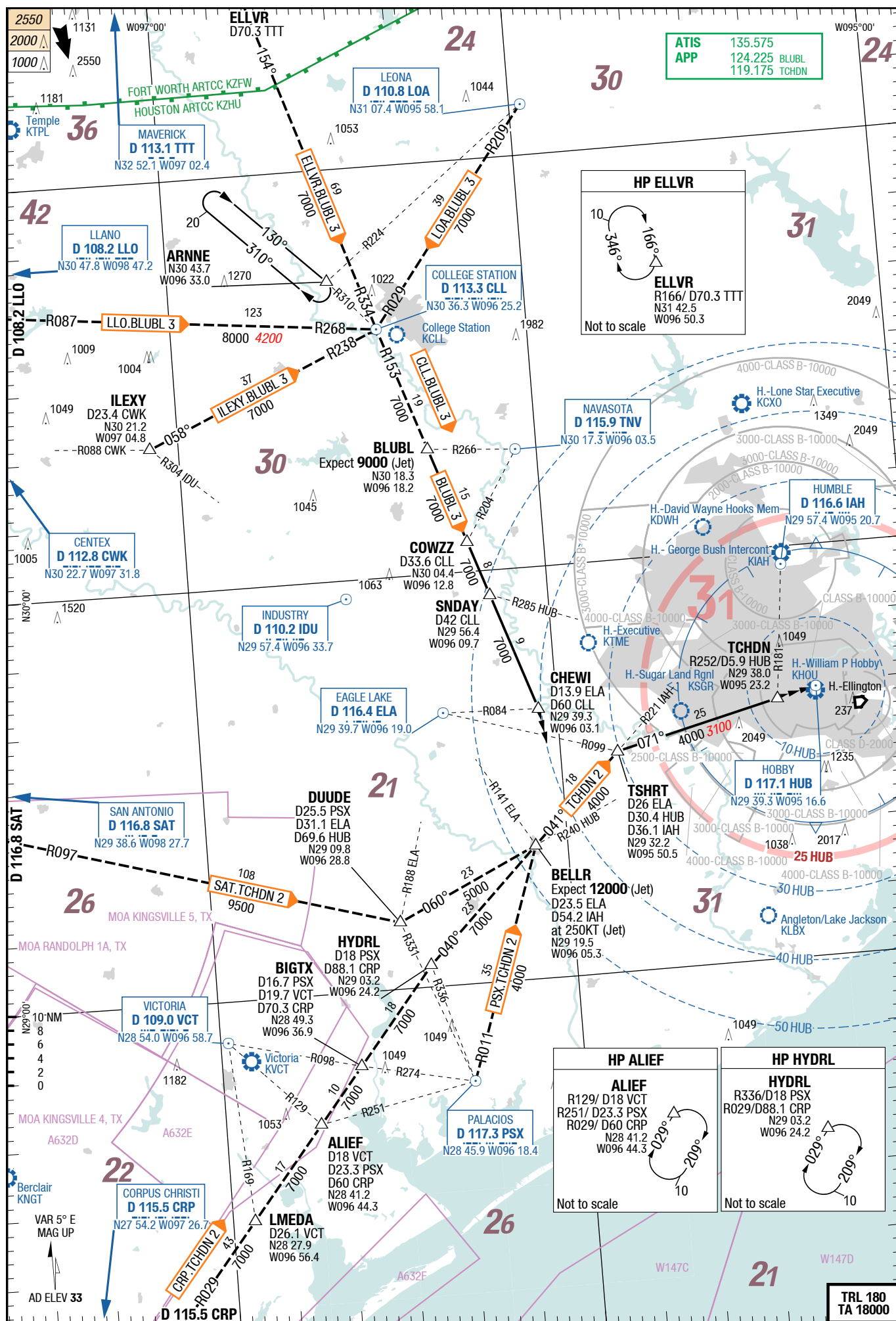
EFD-KEFD

5-130

Obstacle Departure

Obstacle Departure	
RWY	Notes
04	Tree 1526ft from DER, 737ft right of centerline, 39ft AGL/69ft MSL.
17R	Pole 1488ft from DER, 817ft right of centerline, 40ft AGL/74ft MSL.
22	Obstruction light on GS and equipment 321ft from DER, 544ft left of centerline, 39ft AGL/68ft MSL. Sign 213ft from DER, 472ft right of centerline, 6ft AGL/32ft MSL. Antenna on building 1998ft from DER, 598ft right of centerline, 54ft AGL/83ft MSL. Obstruction light on communication equipment and antenna 1626ft from DER, 837ft right of centerline, 88ft AGL/114ft MSL. Obstruction light on water tower and tank 6114ft from DER, 1635ft right of centerline, 159ft AGL/192ft MSL.
35L	Trees beginning 1119ft from DER, 679ft right of centerline, up to 37ft AGL/77ft MSL. Crane 2353ft from DER, 1024ft left of centerline, 58ft AGL/97ft MSL.
35R	Tree 1597ft from DER, 32ft left of centerline, 50ft AGL/80ft MSL. Tank 2639ft from DER, 1157ft right of centerline, 77ft AGL/109ft MSL.





Effective 22-JUN-2017

15-JUN-2017

EFD-KEFD

6-30

United States Houston Ellington

QTRBK 1

HUDZY 3 / OHIO 4

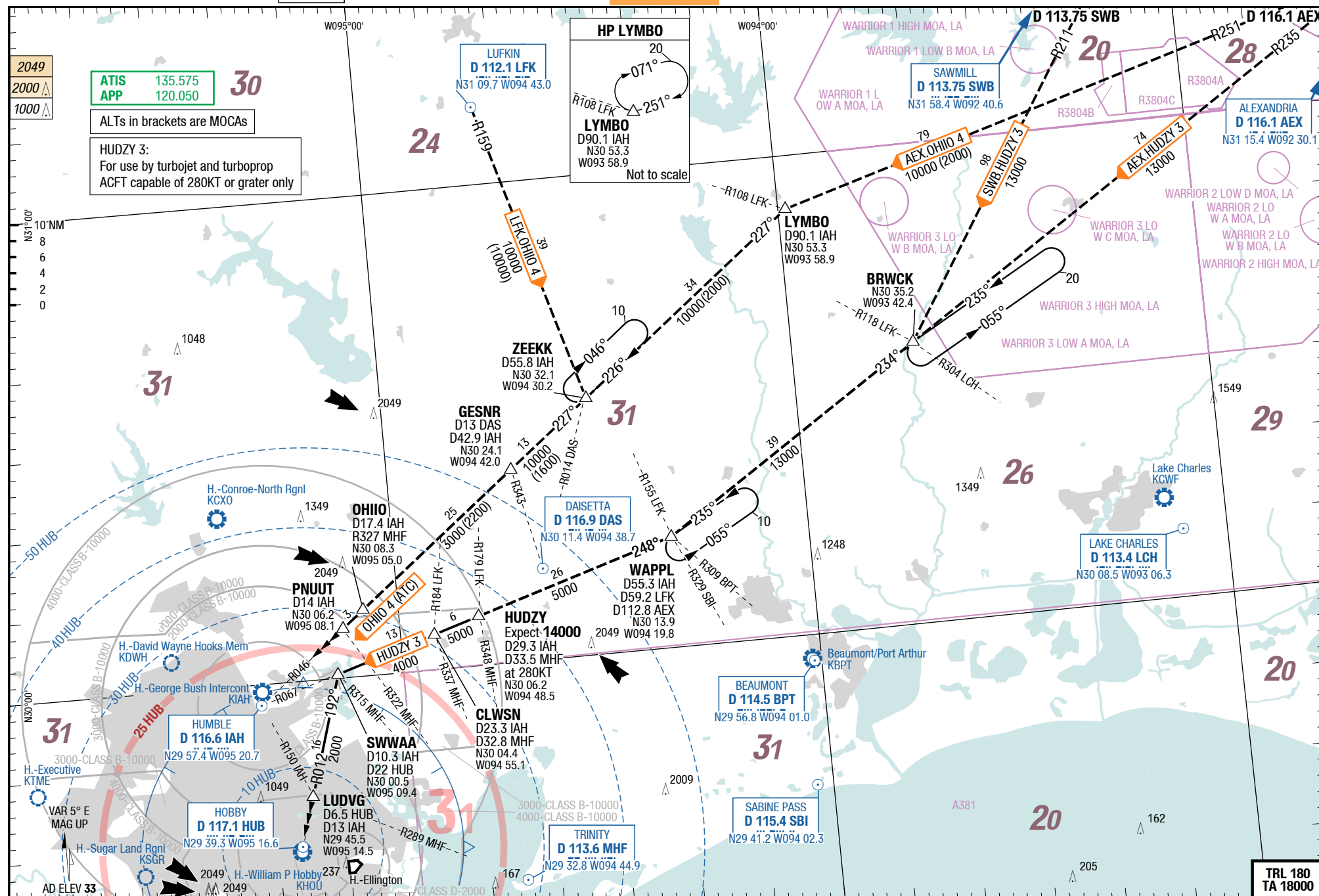
STAR

STAR

Ellington Houston United States

QTRBK 1

HUDZY 3 / OHIO 4



Changes: Track, SUAs, PROC renumbered

TRL 180
TA 18000

© Lido 2017

EFD-KEFD

STAR

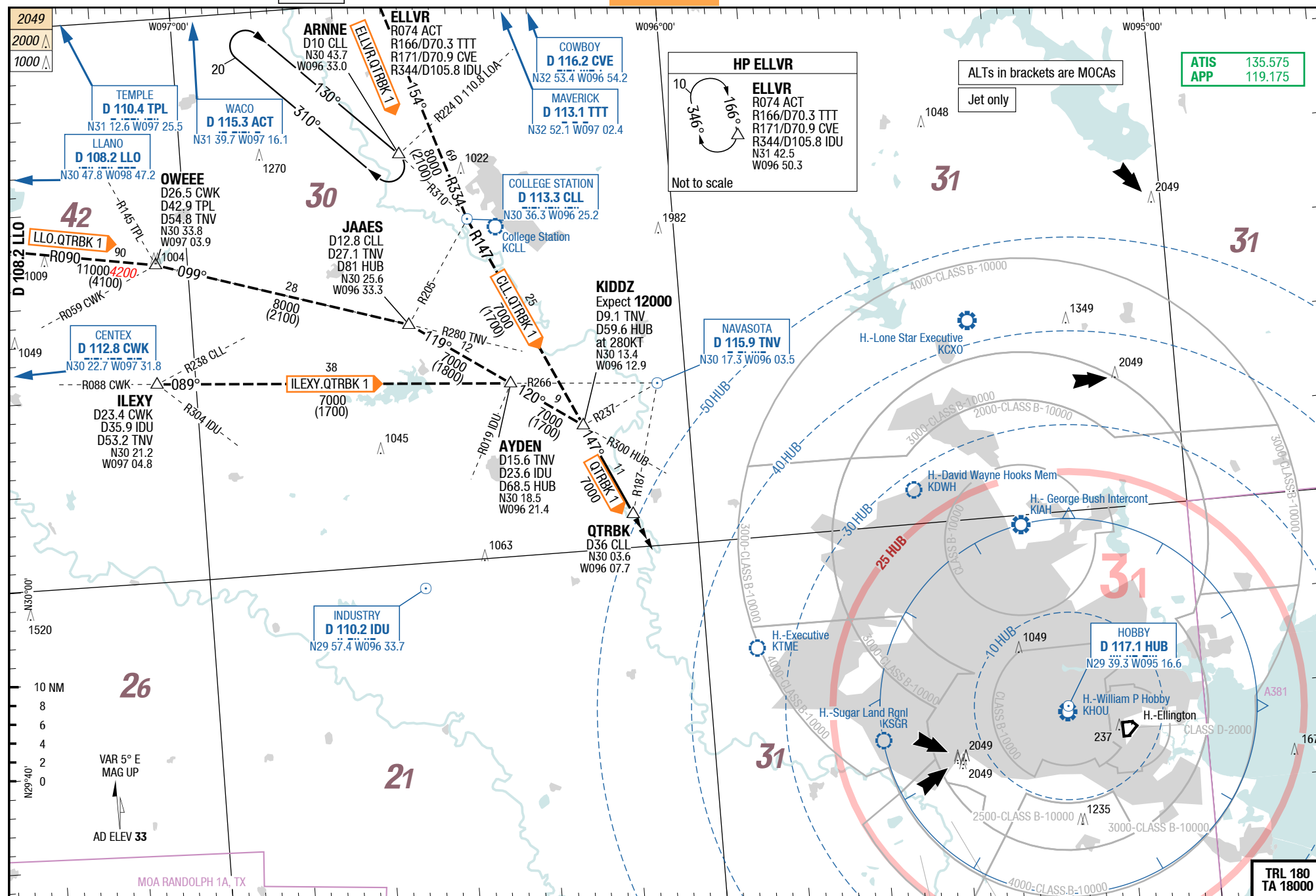
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Ellington **Houston** United States

QTRBK 1

6-40

QTRBK 1

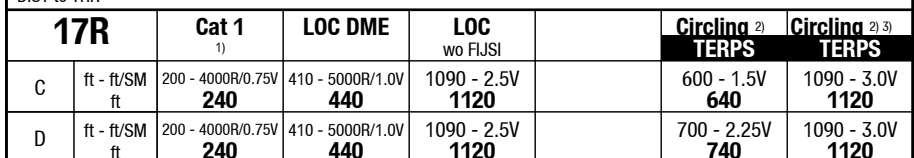


Changes: Nil

TRL 180
TA 18000

© Lido 2017

ILS or LOC 17R



© Lido 2018

12-JUL-2018

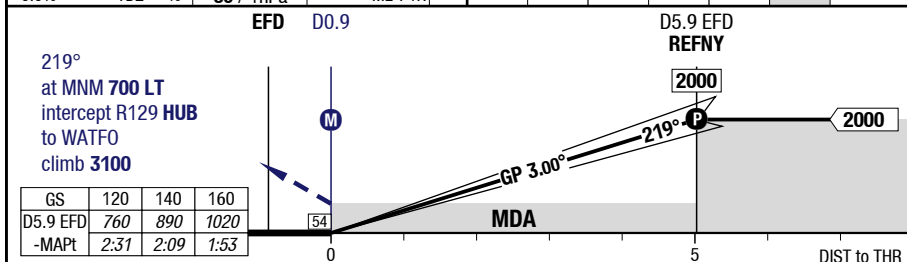
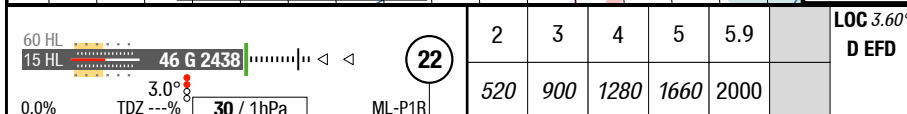
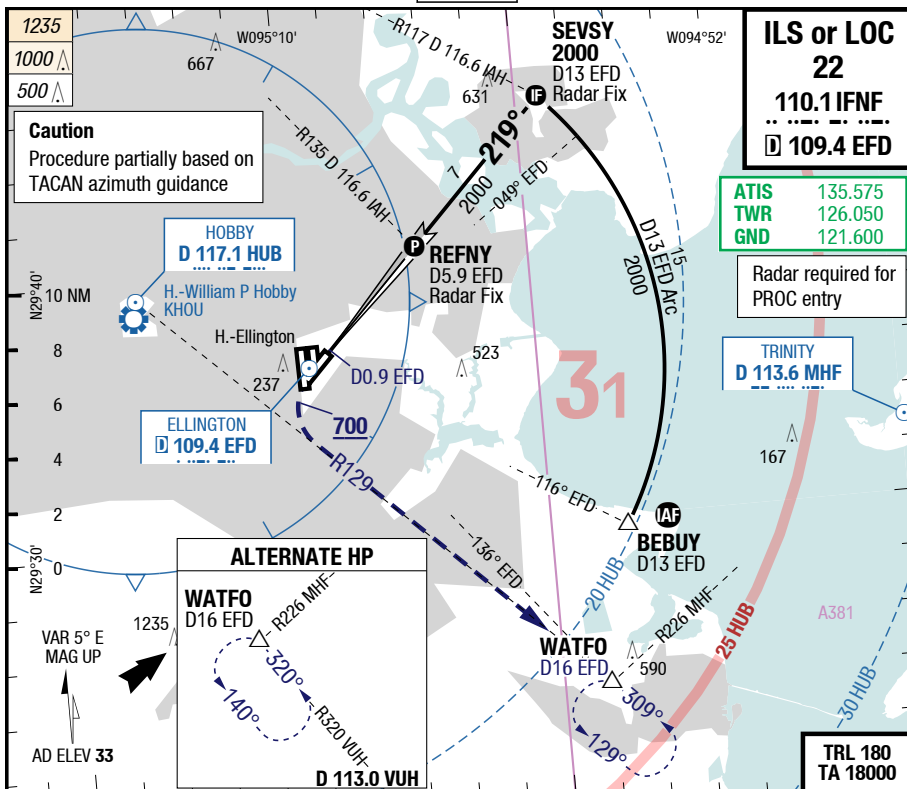
United States Houston Ellington

IAC

EFD-KEFD

7-20

ILS or LOC 22



22	Cat 1	LOC				Circling 1) TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 240	430 - 4500R/0.88V 460			600 - 1.5V 640
D	ft - ft/SM ft	200 - 1800R/0.5V 240	430 - 4500R/0.88V 460			700 - 2.25V 740

1) E of RWY 17R/35L only

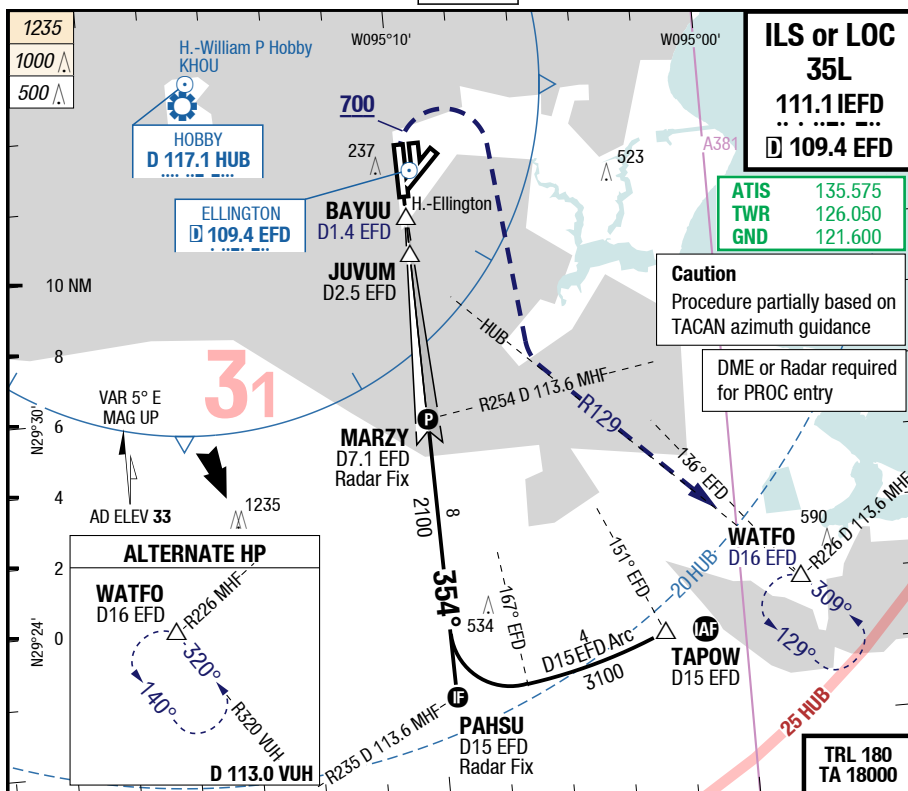
Changes: AMDT No

AMDT 3H

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ILS or LOC 35L

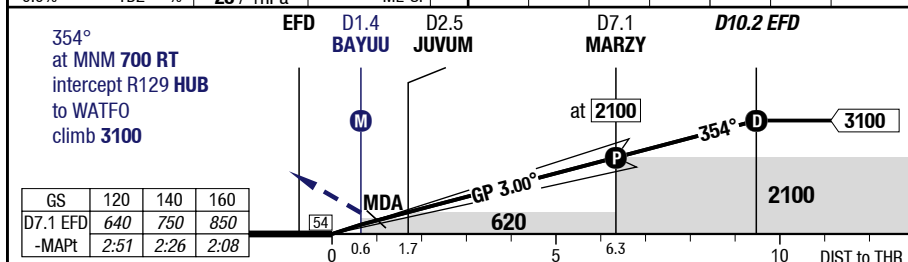
7-30



60 HL
15 HL
46 G 2743
3.0%
0.0%
TDZ ---%
28 / 1hPa
427
MI-SF
35L

2	3	4	6	8	10.2
480	800	1120	1760	2400	3100

LOC 3.01
D EFD



35L		Cat 1 1)	LOC DME	LOC wo JUVUM	LOC wo JUVUM APL U/S	Circling 2)	Circling 2) 3)
						TERPS	TERPS
C	ft - ft/SM ft	200 - 4000R/0.75V 230	420 - 5000R/1.0V 440	600 - 1.38V 620	600 - 1.75V 620	600 - 1.5V 640	600 - 1.75V 640
D	ft - ft/SM ft	200 - 4000R/0.75V 230	420 - 5000R/1.0V 440	600 - 1.38V 620	600 - 1.75V 620	700 - 2.25V 740	700 - 2.25V 740

1) With EVS RVR 2600ft/ VIS 0.5SM

3) wo JUVUM

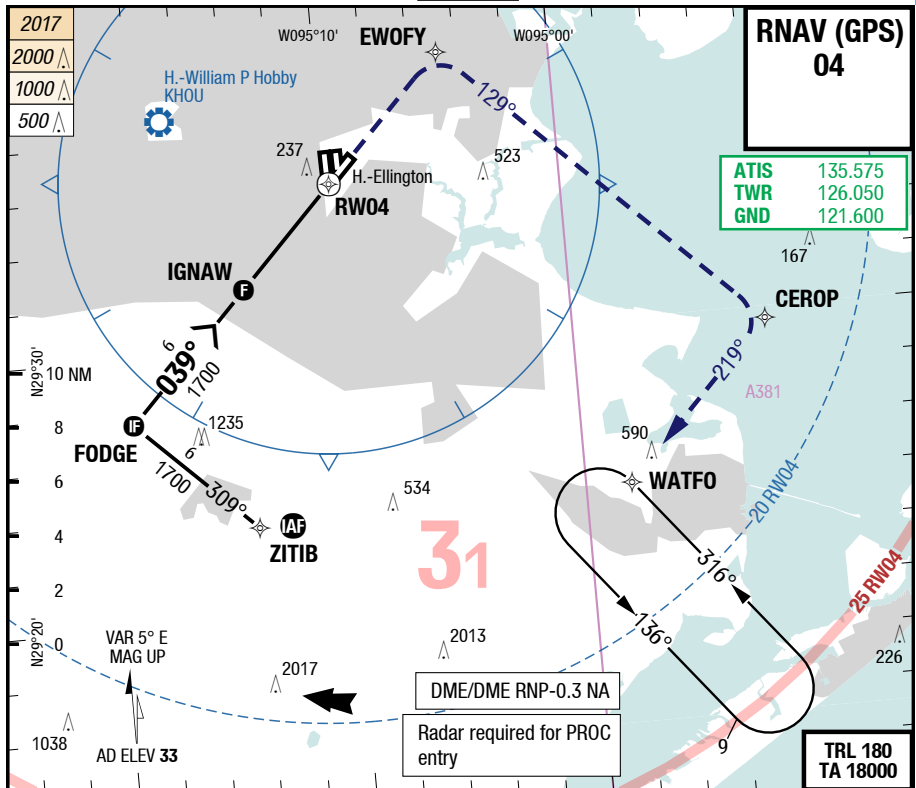
2) E of RWY 17R/35L only

EFD-KEFD

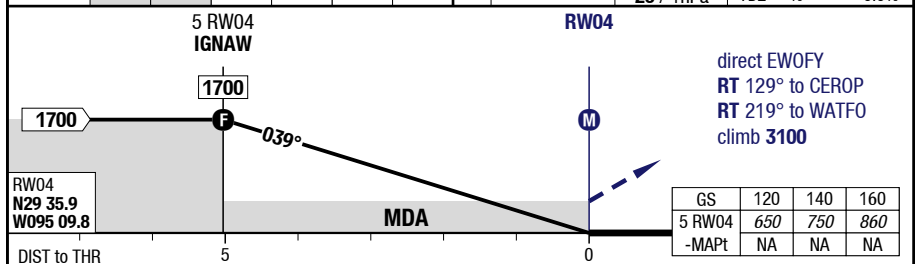
United States **Houston** Ellington

7-50

RNAV (GPS) 04



3.04° RW04			5	4	3	2	<div> <div> <div>8.3.0°</div> <div> <div>2438 G 46</div> <div>60 HL</div> <div>15 HL</div> </div> </div> <div> <div>26 / 1hPa</div> <div>TDZ ---%</div> <div>0.0%</div> </div> </div>
			1700	1370	1050	730	



04		RNAV GPS LNAV					Circling¹⁾ TERPS
C	ft - ft/SM ft	470 - 1.38V 500					600 - 1.5V 640
D	ft - ft/SM ft	470 - 1.38V 500					700 - 2.25V 740

1) E of RWY 17R/35L only

Changes: new

AMDT 1B

RNAV (GPS) 17R



ATIS	135.575
TWR	126.050
GND	121.600

Radar required for PROC entry

DME/DME RNP-0.3 NA

HP WATFO

WATFO


Not to scale

TRL 180
TA 18000

RW17R

17D

MI -SE

7 



TRAPS

FIJSI

RW17R

direct AZTIB
LT 125° to WATFO
climb **3100**

GS	120	140	160
5.1 RW17R	640	740	850
-MAPt	NA	NA	NA

17R

RNAV GPS
VNAV

RNAV GPS
VNAV

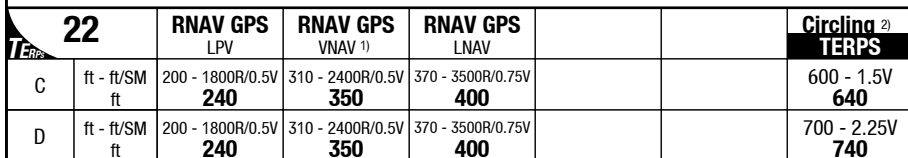
RNAV GPS
LNAV

Circling⁴⁾

C	ft - ft/SM ft	340 - 4000R/0.75V 370	340 - 5500R/1.0V 370	470 - 6000R/1.25V 500		600 - 1.5V 640
D	ft - ft/SM ft	340 - 4000R/0.75V 370	340 - 5500R/1.0V 370	470 - 6000R/1.25V 500		700 - 2.25V 740

1) Uncompensated BARO VNAV NA below -15°C (5°F) or above 43°C (109°F) 2) With EVS RVR 2600ft/ VIS 0.5SM 3) With EVS RVR 3700ft/ VIS 0.63SM 4) E of RWY 17R/35L only

RNAV (GPS) 22



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RNAV (GPS) 35L

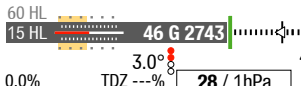


ATIS	135.575
TWR	126.050
GND	121.600

Radar required for PROC entry

DME/DME RNP-0.3 NA

TRL 180
TA 1800



GS	120	140	160
6.3 RW35L	640	740	850
-MAPt	NA	NA	NA

35L		RNAV GPS	RNAV GPS	RNAV GPS		Circling ⁴⁾
		VNAV 1) 2)	VNAV APL U/S 1) 3)	LNAV		TERPS
C	ft - ft/SM ft	480 - 6000R/1.25V 500	480 - 1.75V 500	420 - 5000R/1.0V 440		600 - 1.5V 640
D	ft - ft/SM ft	480 - 6000R/1.25V 500	480 - 1.75V 500	420 - 5000R/1.0V 440		700 - 2.25V 740

1) Uncompensated BARO VNAV NA below -15°C (5°F) or above 43°C (109°F) 2) With EVS RVR 4000ft/ VIS 0.75SM 3) With EVS VIS 1.25SM
4) E of RWY 17R/35L only