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Airport Information For KIAH

Terminal Charts For KIAH

Revision Letter For Cycle 23-2020

Change Notices

Notebook

General Information

Location: HOUSTON TX USA
ICAO/IATA: KIAH / IAH
Lat/Long: N29° 59.1', W095° 20.5'
Elevation: 96 ft

Airport Use: Public
Daylight Savings: Observed
UTC Conversion: +6:00 = UTC
Magnetic Variation: 3.0° E
Sectional Chart: Houston

Fuel Types: 100 Octane (LL), Jet A
Oxygen Types: Low Pressure
Repair Types: Major Airframe, Major Engine
Customs: Upon Prior Request
Airport Type: IFR
Landing Fee: No
Control Tower: Yes
Jet Start Unit: Yes
LLWS Alert: Yes
Beacon: Yes

Sunrise: 1303 Z
Sunset: 2321 Z

Runway Information

Runway: 15L
Length x Width: 12001 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 95 ft
Lighting: Edge, Centerline

Runway: 08L
Length x Width: 9000 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 94 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 08R
Length x Width: 9402 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 95 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 09
Length x Width: 10000 ft x 150 ft
Surface Type: asphalt
TDZ-Elev: 90 ft
Lighting: Edge, ALS, Centerline

Runway: 15R
Length x Width: 10000 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 95 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 26L
Length x Width: 9402 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 95 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 26R
Length x Width: 9000 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 95 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 27
Length x Width: 10000 ft x 150 ft
Surface Type: asphalt
TDZ-Elev: 86 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 33L
Length x Width: 10000 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 89 ft
Lighting: Edge, Centerline, TDZ

Runway: 33R
Length x Width: 12001 ft x 150 ft
Surface Type: concrete
TDZ-Elev: 88 ft
Lighting: Edge, ALS, Centerline

Communication Information

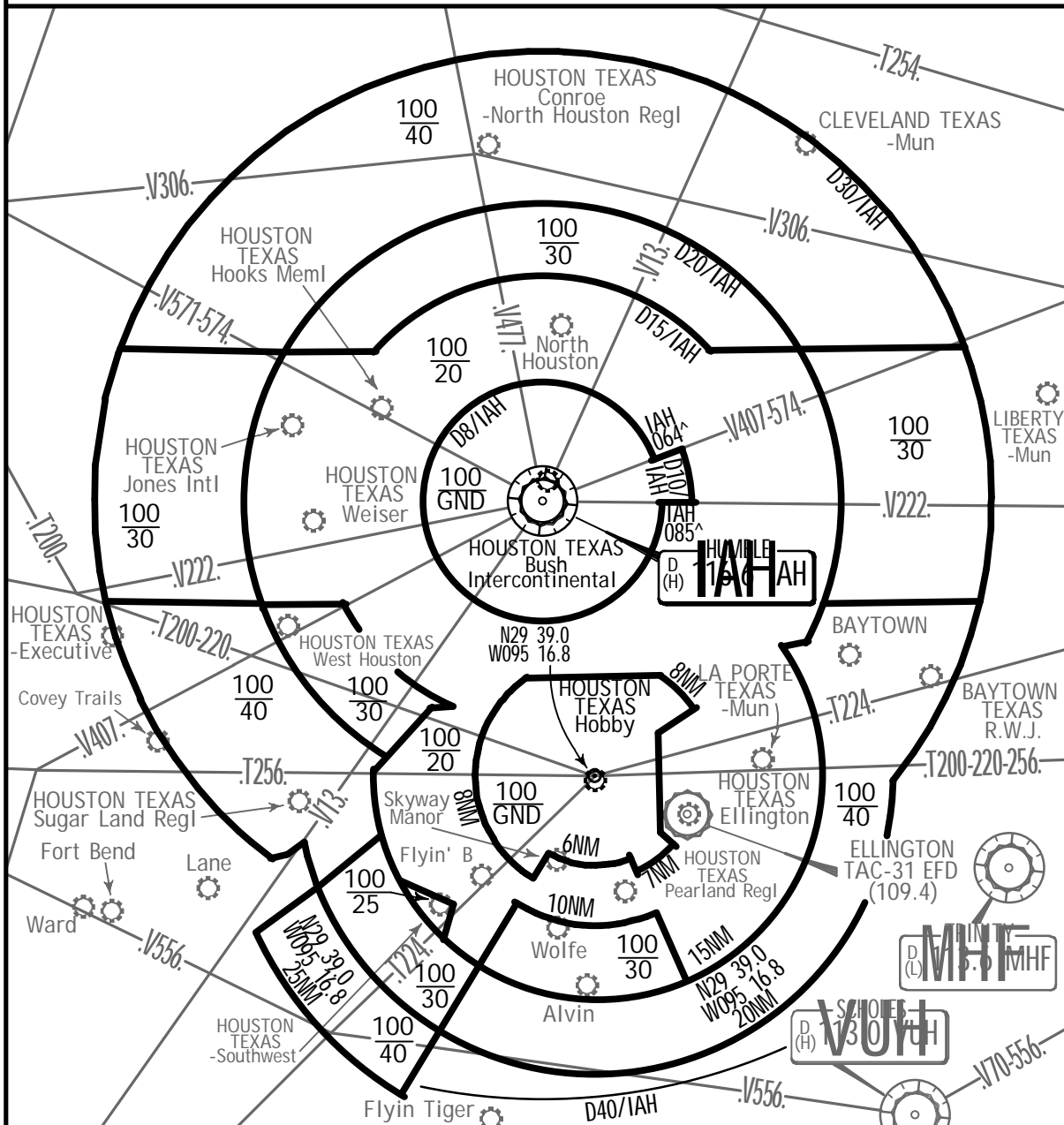
ATIS: 124.050

Houston Tower: 125.350
Houston Tower: 127.300
Houston Tower: 135.150
Houston Tower: 120.725
Houston Ground: 121.700
Houston Ground: 119.950
Houston Ground: 118.575
Houston Ramp/Taxi: 131.275
Houston Ramp/Taxi: 130.825
Houston Ramp/Taxi: 121.625
Houston Clearance Delivery: 128.100
Houston Approach: 119.175 Arrival Service
Houston Approach: 119.625 Arrival Service
Houston Approach: 120.050 Initial Contact
Houston Approach: 124.350 Initial Contact
Houston Terminal Control Area: 127.125
Houston Departure: 123.800 Departure Service
Houston Departure: 132.250 Departure Service
Houston Departure: 126.675 Departure Service
Houston Departure: 127.125 Departure Service
Houston Departure: 119.700 Departure Service
Houston UNICOM: 122.950
Montgomery Co FSS: 122.400 RCO

HOUSTON CLASS B AIRSPACE

CLASS B AIRSPACE VFR COMMUNICATIONS

N	Houston App	119.7	S	Houston App	134.45
E	Houston App	127.12	W	Houston App	123.8



FOR OPERATING RULES AND PILOT AND EQUIPMENT REQUIREMENTS
SEE FAR 91.131, 91.117 AND 91.215

FLIGHT PROCEDURES

IFR Flights. Aircraft within Class B airspace are required to operate in accordance with current IFR procedures.

VFR Flights-

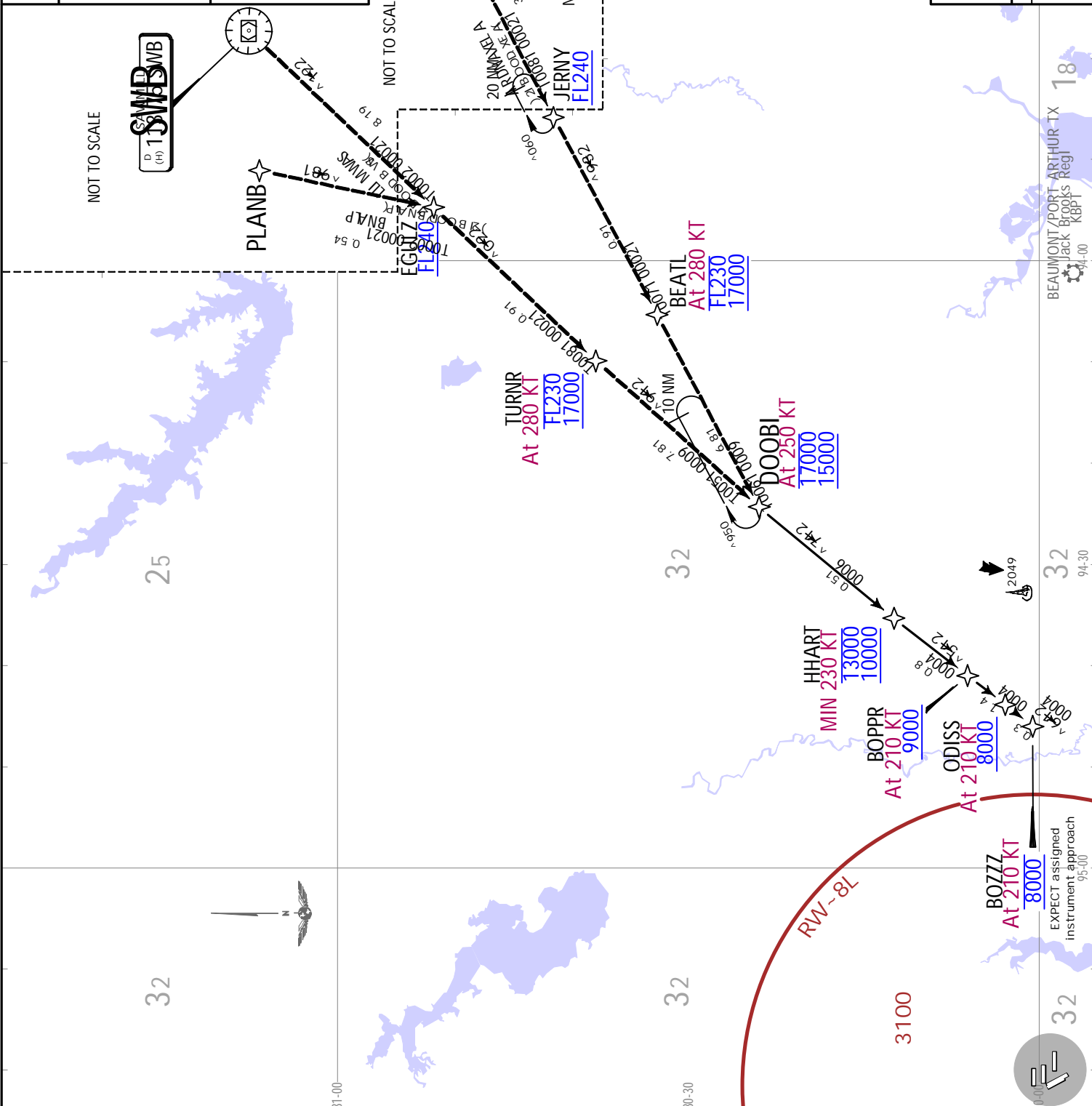
- a. Arriving aircraft should contact Houston Approach Control on the specified frequencies. Although arriving aircraft may be operating beneath the floor of Class B airspace on initial contact, communications should be established with Approach Control for sequencing and spacing purposes.
- b. Aircraft departing the primary airport are requested to advise clearance delivery prior to taxiing of their intended altitude and direction of flight to depart Class B airspace. Aircraft departing from other than Houston Intercontinental Airport whose route of flight would penetrate Class B airspace should give this information to ATC on appropriate frequencies.
- c. Aircraft desiring to transit Class B airspace must obtain an ATC clearance and will be handled on an ATC workload permitting basis.

D-ATIS
 124.05
 Apt Elev
 96

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. RNAV 1.
 3. DME/DME/IRU or GPS required.
 4. Turbojet and turboprop aircraft capable of 280 KT or greater only. 5. EXPECT runway assignment from Houston TRACON upon initial contact.
 6. Corresponding RNAV STAR is SKNRD. EXPECT SKNRD when George Bush Intercontinental/Houston is landing EAST.

DOOBI 2 RNAV ARRIVAL (DOOBI.DOOBI2)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.



ROUTING
 From DOOBI on track 217° to HHART, then on track 215° to BOPPR, then on track 215° to ODISS, then on track 216° to BOZZ. EXPECT assigned instrument approach.

COMMS
 In the event of lost communication prior to runway assignment, execute the ILS Rwy 26L approach.

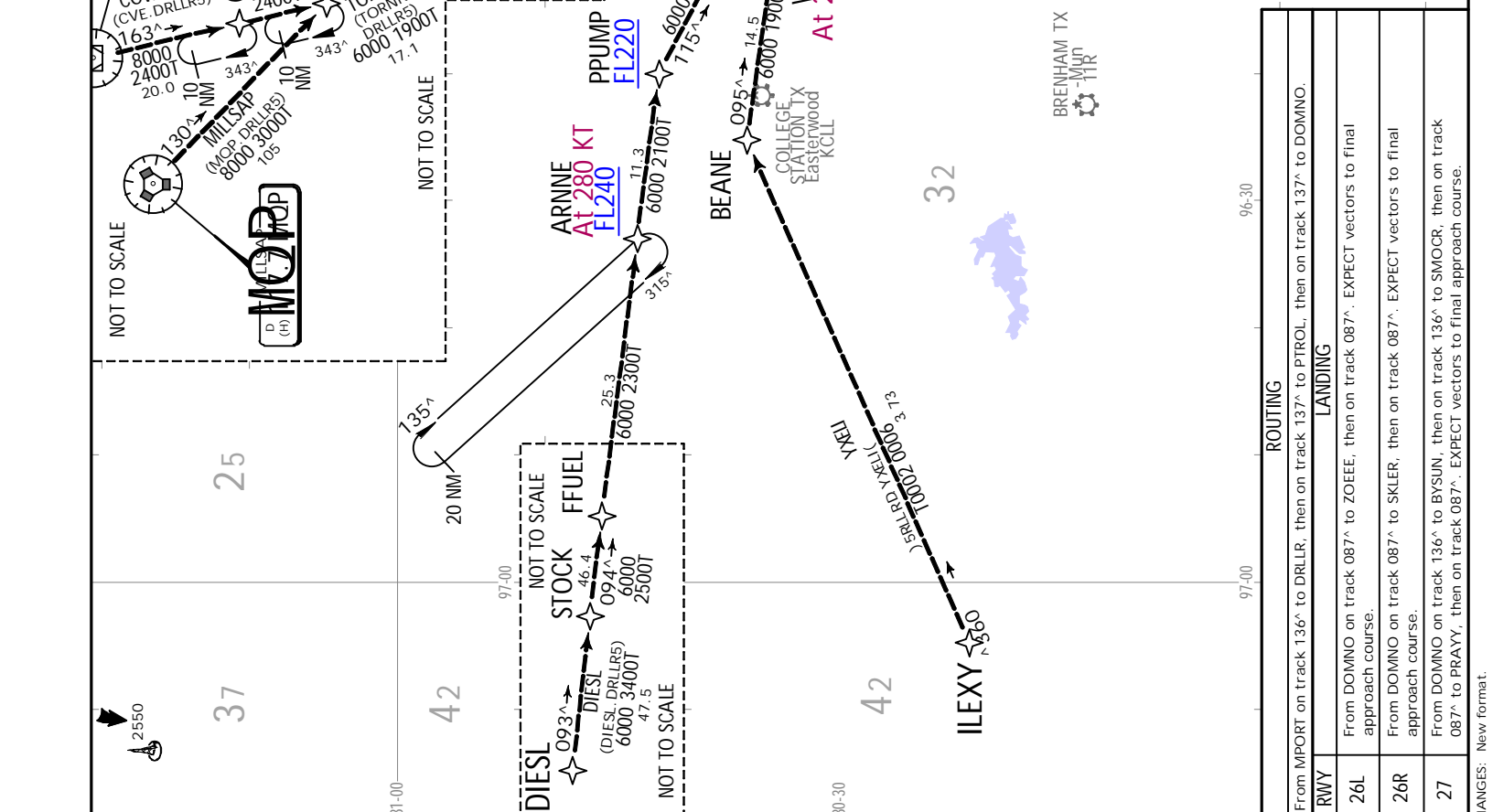
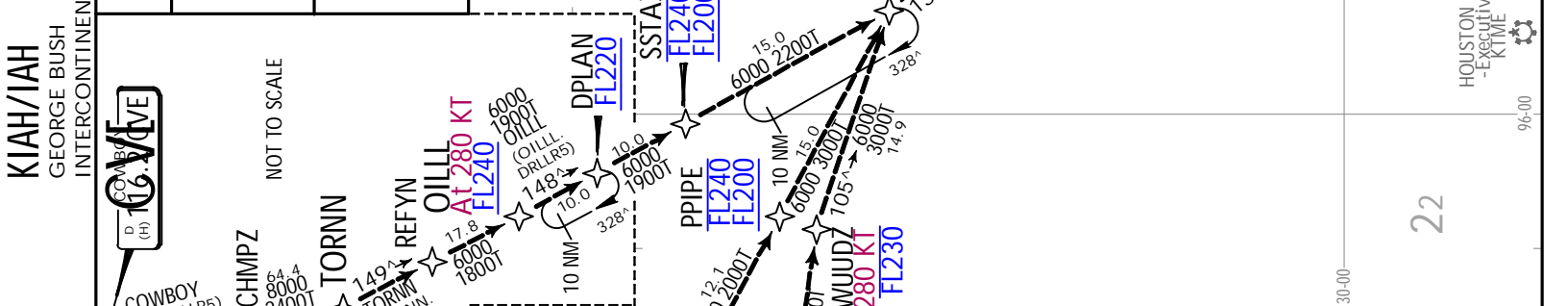
LOST COMMS → LOST COMMS → LOST COMMS → LOST

JEPPesen 12 JUL 19 (70-2A) Alt Set: INCHES Trans level: FL180 Apt Elev 96 D-ATIS 124.05

1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Fly the runway 26R transition. Houston Approach Control may assign a different transition on initial contact. 5. Corresponding RNAV STAR is GUSHR. EXPECT GUSHR when George Bush Intercontinental/Houston is landing EAST. 6. ILEXY transition for Austin terminal area departures only. 7. Turbojet and turboprop aircraft capable of 280 KT or greater only.

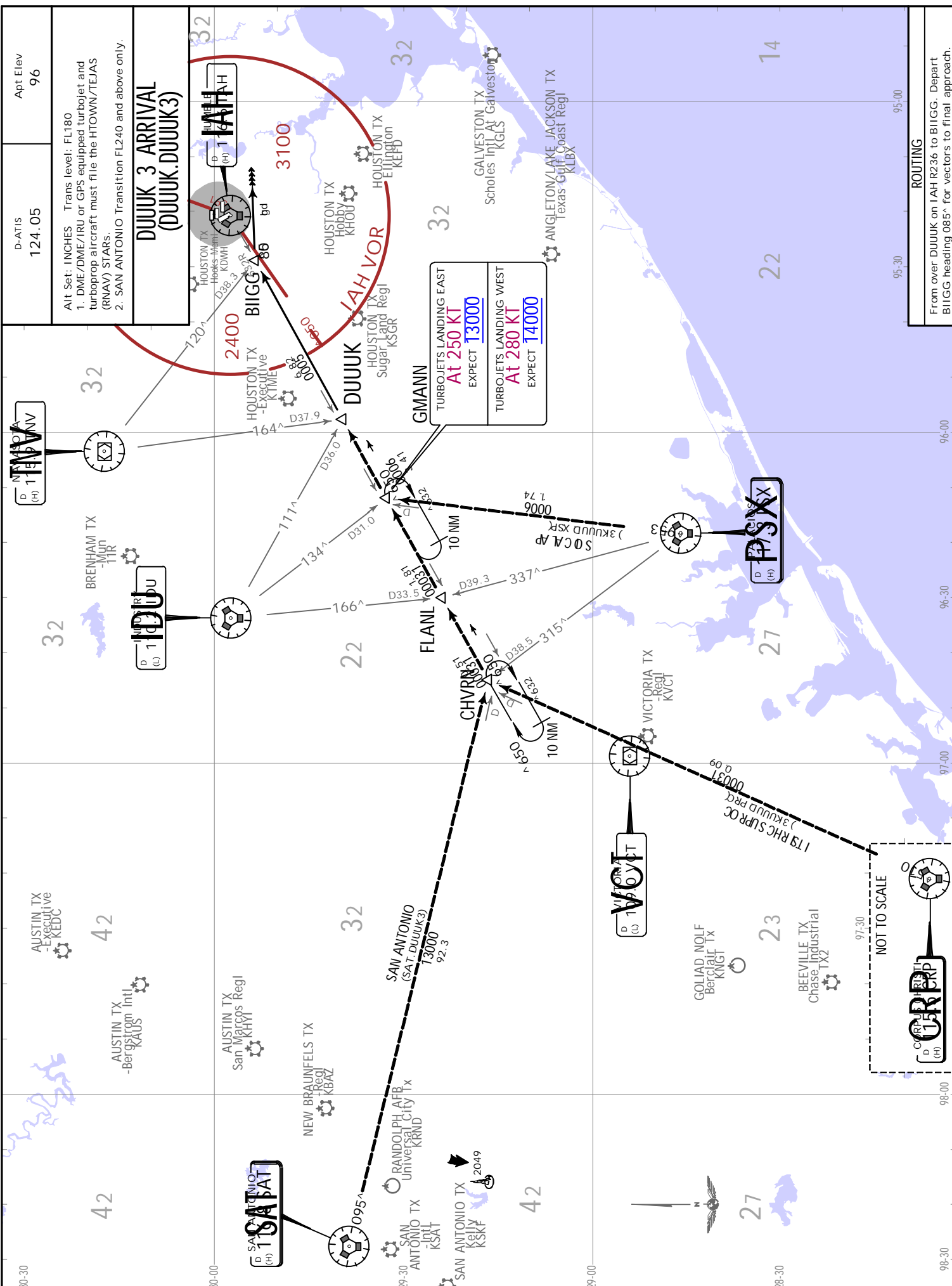
DRLLR 5 RNAV ARRIVAL (MPORT.DRLLR5)

SPEED RESTRICTION
 Turbojet aircraft, descend via mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.



ROUTING	
LANDING	
RWY 26L	From MPORT on track 136° to DRLLR, then on track 137° to PTROL, then on track 137° to DOMNO.
RWY 26R	From DOMNO on track 087° to ZOEFE, then on track 087°. EXPECT vectors to final approach course.
RWY 27	From DOMNO on track 087° to SKLER, then on track 087°. EXPECT vectors to final approach course. From DOMNO on track 136° to BYSUN, then on track 136° to SMOCR, then on track 087° to PRAYY, then on track 087°. EXPECT vectors to final approach course.

JEPESEN HOUSTON, TEXAS
 4 OCT 19 (70-2B) Eff. 10.Oct.
 .STAR.



ROUTING
 From over DUUUK on IAH R236 to BIIGG. Depart BIIGG heading 085° for vectors to final approach.
 JEPESEN, 2019. ALL RIGHTS RESERVED.

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

JEPPesen
 4 OCT 19 (70-2C) .Eff. 10. Oct.

HOUSTON, TEXAS
 .RNAV STAR.

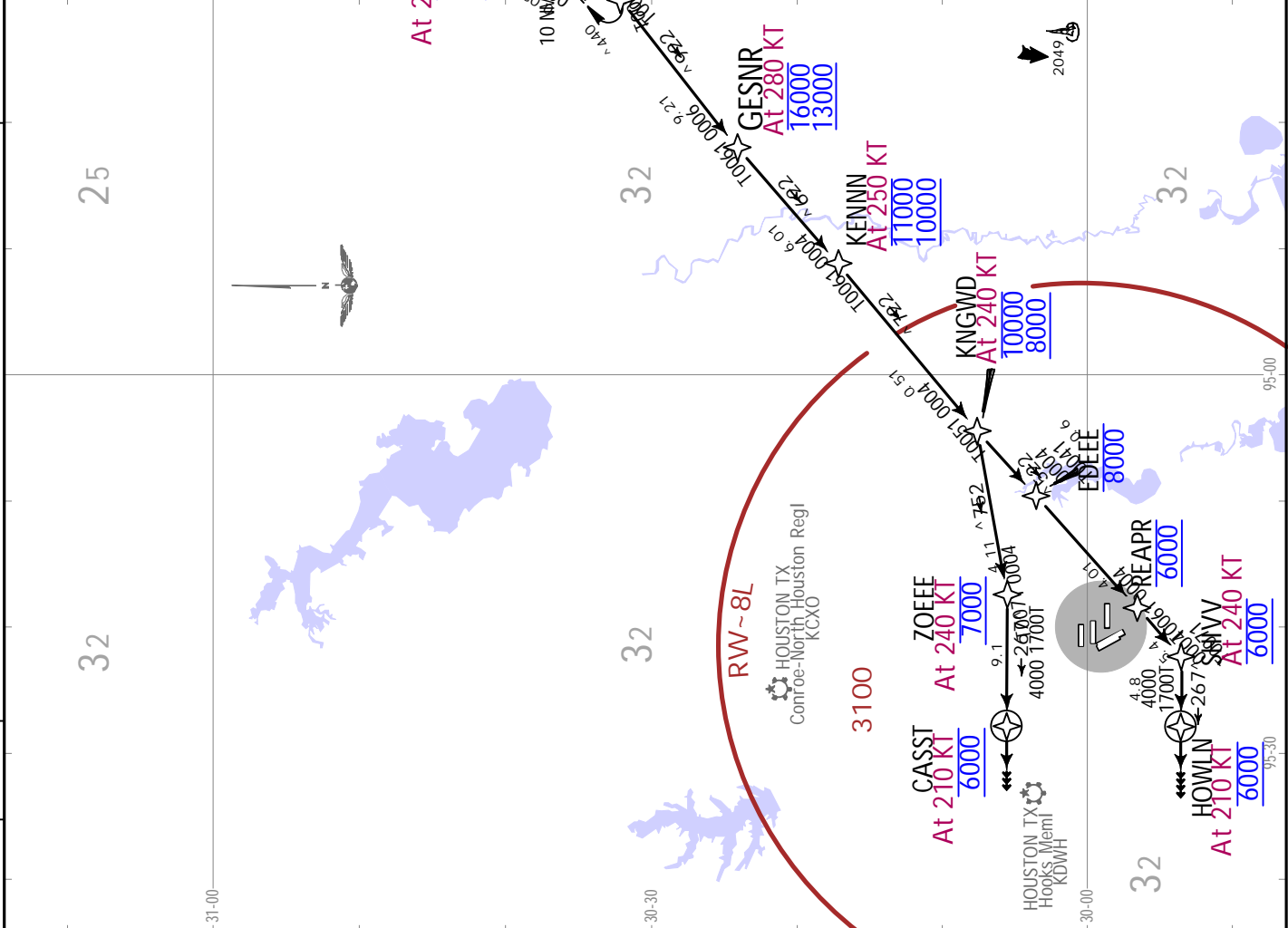
D-ATIS 124.05
 Apt Elev 96

Alt. Set: INCHES. Trans level: FL180
 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet and turboprop aircraft only.

5. Fly the runway 8L transition: Houston Approach Control may assign a different transition on initial contact.
 6. Corresponding RNAV STAR is ZEEKK. EXPECT ZEEKK when George Bush Intercontinental/Houston is landing WEST.
 7. Except for aircraft departing Shreveport Regl, PLANB transition is ATC assigned only; do not file.
 8. CARPR transition is ATC assigned only; do not file.

GESNR 1 RNAV ARRIVAL (ZEEKK.GESNR1)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT.
 MAINTAIN 280 KT until slowed by STAR.



ROUTING	
From ZEEKK on track 229° to GESNR.	
LANDING	
RWY	8L
	8R, 9

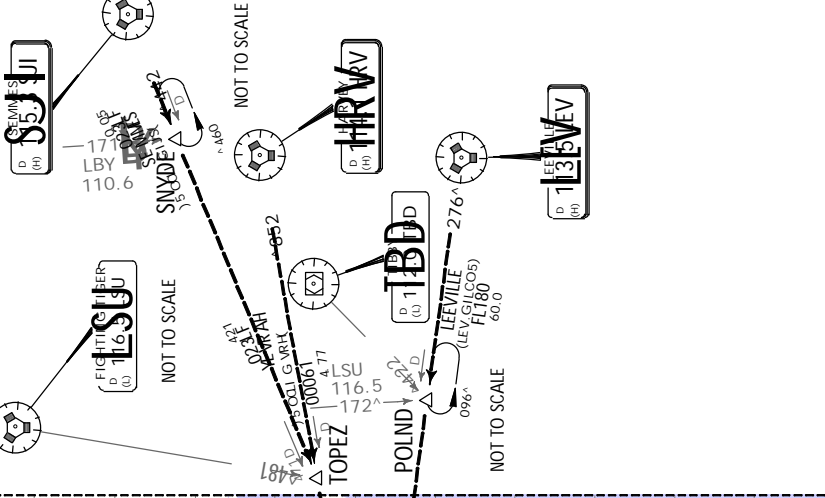
HOUSTON TEXAS
JEPPESEN
 4 OCT 19 (70-2D) Eff. 10 Oct. STAR.

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

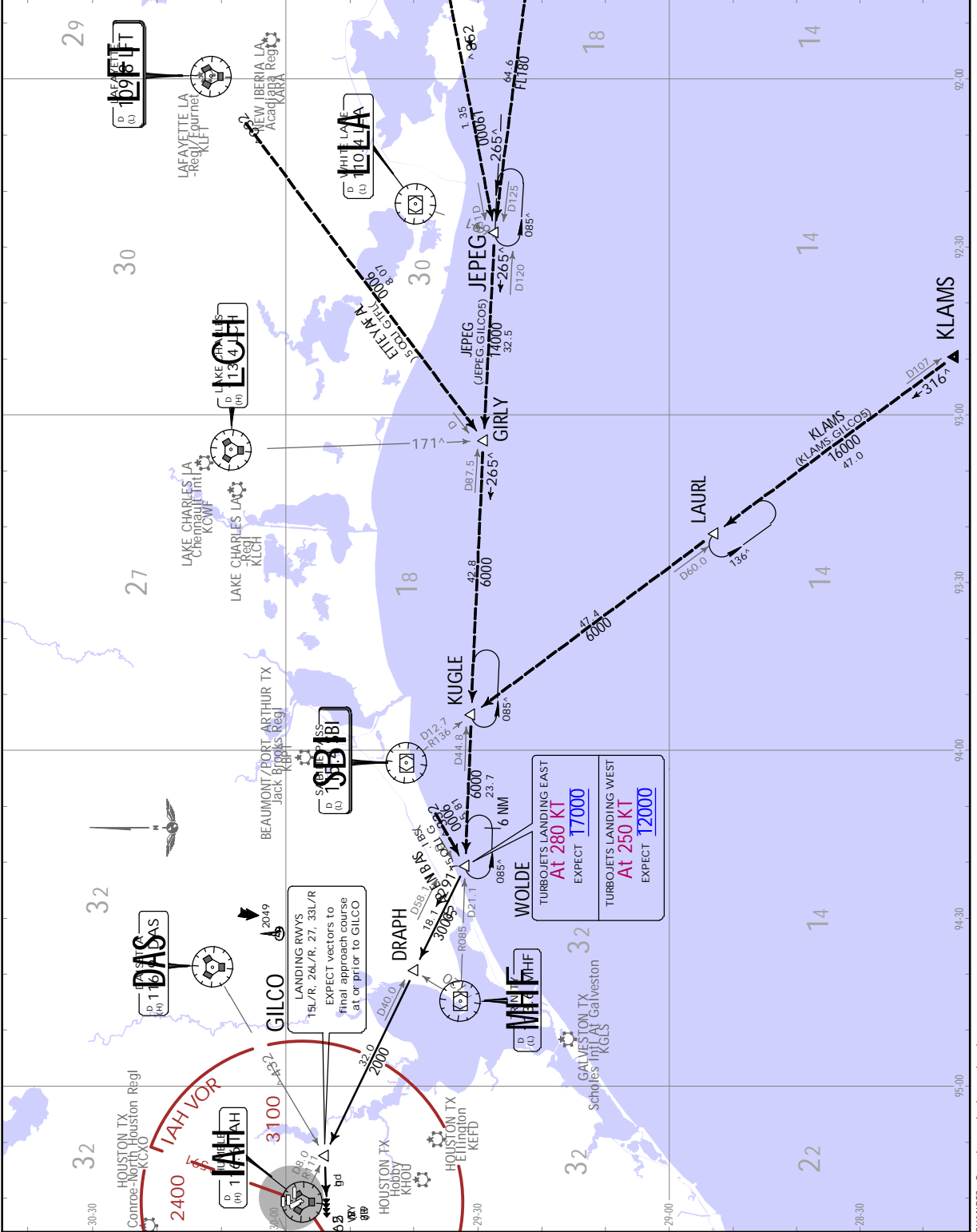
D-ATIS
 124.05
 Apt Elev
 96
 Alt Set: INCHES
 Trans level: FL180

1. DME required: KLAMS Transition.
2. DME/DME/IRU or GPS equipped aircraft must file the NANCEE/ LINKK (RNAV) STARS.
3. Turbojet and turboprop aircraft only.
4. SABINE PASS Transition: ATC assigned only. Do not file.

**GILCO 5 ARRIVAL
 (WOLDE.GILCO5)**



ROUTING	
RWY	From over WOLDE on IAH R111* to GILCO.
8L/R, 9	From GILCO fly heading 265* for vectors to final approach course.
ALL OTHER	EXPECT vectors to final approach course at or prior to GILCO.



LANDING RWYS
 15L/R, 26L/R, 27, 33L/R
 EXPECT vectors to final approach course at or prior to GILCO

TURBOJET LANDING EAST
 At 280 KT
 EXPECT T7000

TURBOJET LANDING WEST
 At 250 KT
 EXPECT T2000

JEPPESEN HOUSTON, TEXAS
 4 OCT 19 (70-2E) Eff. 10 Oct. .RNAV STAR

D-ATIS	124.05	Apt Elev	96
D-ATIS		Trans level:	FL180

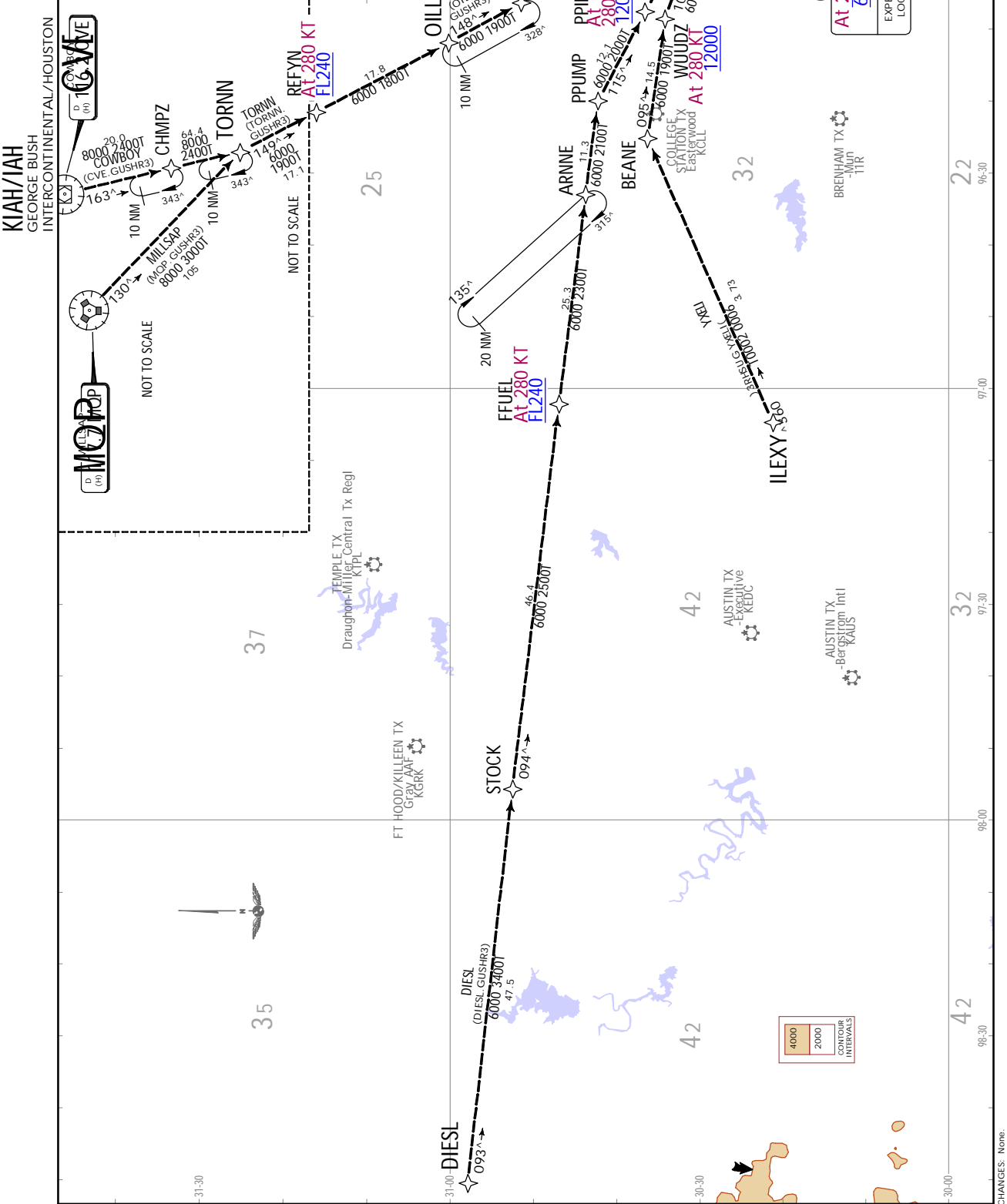
1. RADAR required. 2. RNAV 1.
 3. DME/DME/RU or GPS required.
 4. For use by turboprop and turboprop aircraft only.
 5. EXPECT runway assignment from Houston TRACON upon initial contact. 6. ILEXY Transition for Austin Terminal Area departures only. 7. Corresponding RNAV STAR IS DRLR. EXPECT DRLR when George Bush Intercontinental/Houston IS landing WEST.

GUSHR 3 RNAV ARRIVAL (MPORT.GUSHR3)

SPEED RESTRICTION
 Turboprop aircraft descend via Mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.

ROUTING
 From MPORT on track 171° to GUSHR. EXPECT ILS or LOC Rwy 8L.

HOLDING OVER MPORT
 10 NM 148° 328°



D-ATIS
 124.05

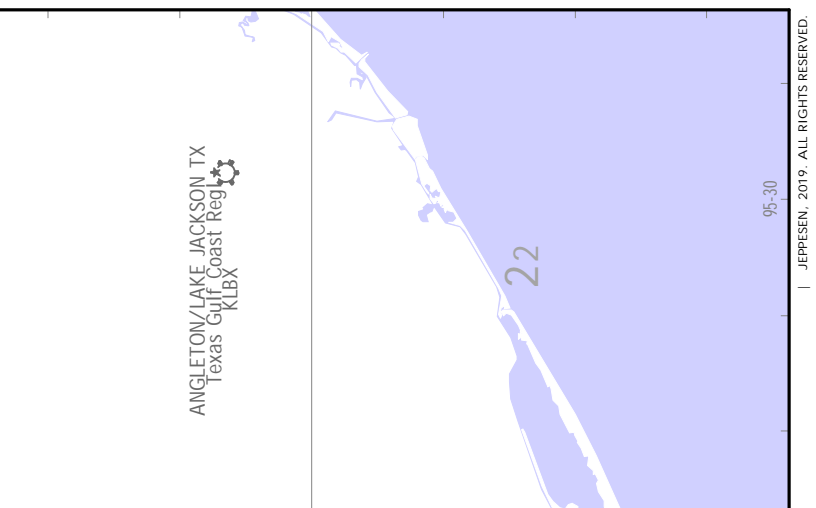
Apt Elev
 96

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet and turboprop aircraft only.
 5. EXPECT runway assignment from Houston TRACON upon initial contact.
 6. Corresponding RNAV STAR is TEJAS. EXPECT TEJAS when George Bush Intercontinental/Houston is landing WEST.

**HTOWN 2 RNAV ARRIVAL
 (GMANN.HTOWN2)**

SPEED RESTRICTION
 Turbojet aircraft descend via a mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.

ROUTING
 From GMANN on track 040° to HTOWN, then on track 031° to WDLNS. EXPECT ILS or LOC Rwy 8R.



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

JEPPesen
 4 OCT 19 (70-2G) Eff. 10.Oct.

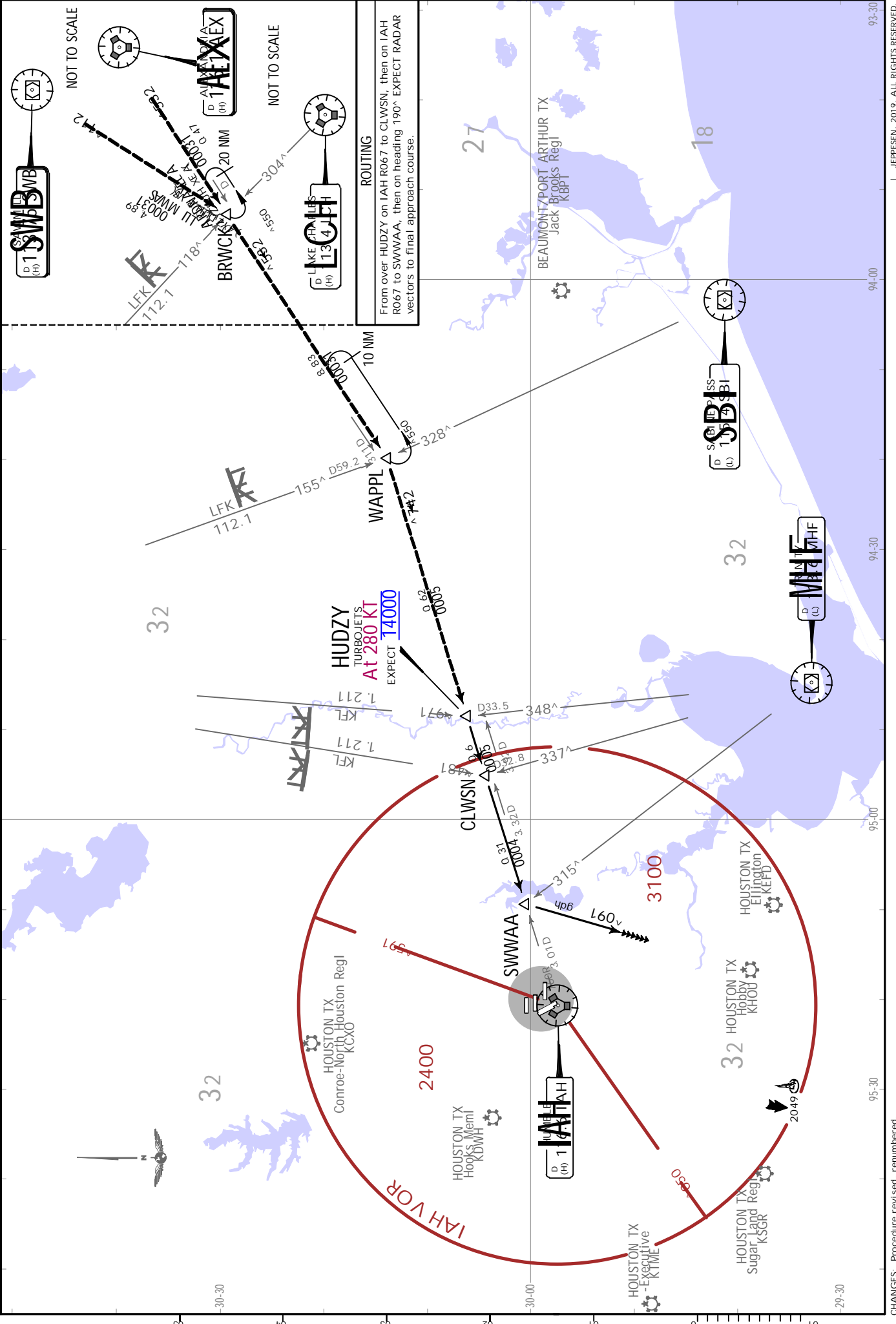
HOUSTON, TEXAS
 STAR.

Alt Set: INCHES Trans level: FL180
 1. **RADAR required**
 2. For use by turbojet and turboprop aircraft capable of 280 KT or greater only.
 3. DME/DME/IRU or GPS equipped aircraft must file the WAPPL (RNAV) STAR.
 4. ATC assigned only for aircraft landing KIAH.

Apt Elev
 96

D-ATIS
 124.05

HUDZY 4 ARRIVAL
 (HUDZY.HUDZY4)



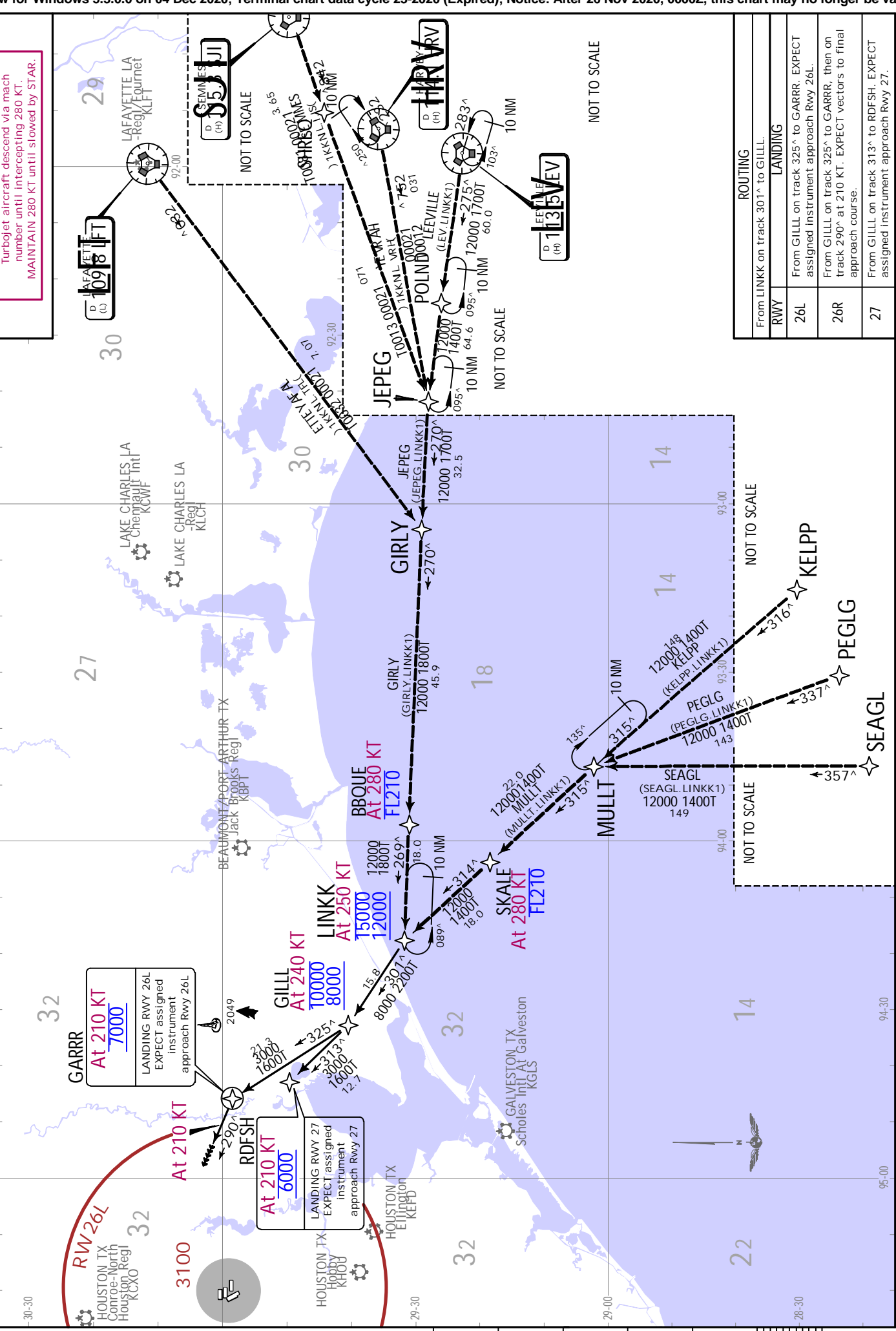
D-ATIS 124.05 Apt Elev 96

Alt Set: INCHES Trans level: FL180

1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet and turboprop aircraft only. 5. Fly the Rwy 27 transition: Houston Approach Control may assign a different transition on initial contact. 6. Corresponding RNAV STAR is NNCEE. EXPECT NNCEE when George Bush Intercontinental/Houston is landing EAST. 7. GPS required for KELPP, PEGLG, and SEAGL Transitions.

LINK 1 RNAV ARRIVAL (LINKK.LINKK1)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.



ROUTING	
From LINKK on track 301° to GILL.	
LANDING	
Rwy	26L
	From GILL on track 325° to GARRR. EXPECT assigned instrument approach Rwy 26L.
	26R
	From GILL on track 325° to GARRR, then on track 290° at 210 KT. EXPECT vectors to final approach course.
	27
	From GILL on track 313° to RDFSH. EXPECT assigned instrument approach Rwy 27.



12 JUL 19 (70-2J)

D-ATIS 124.05	Apt Elev 96	Alt Set: INCHES Trans level: FL180
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MSCOT 4 RNAV ARRIVAL (SUUNR.MSCOT4)

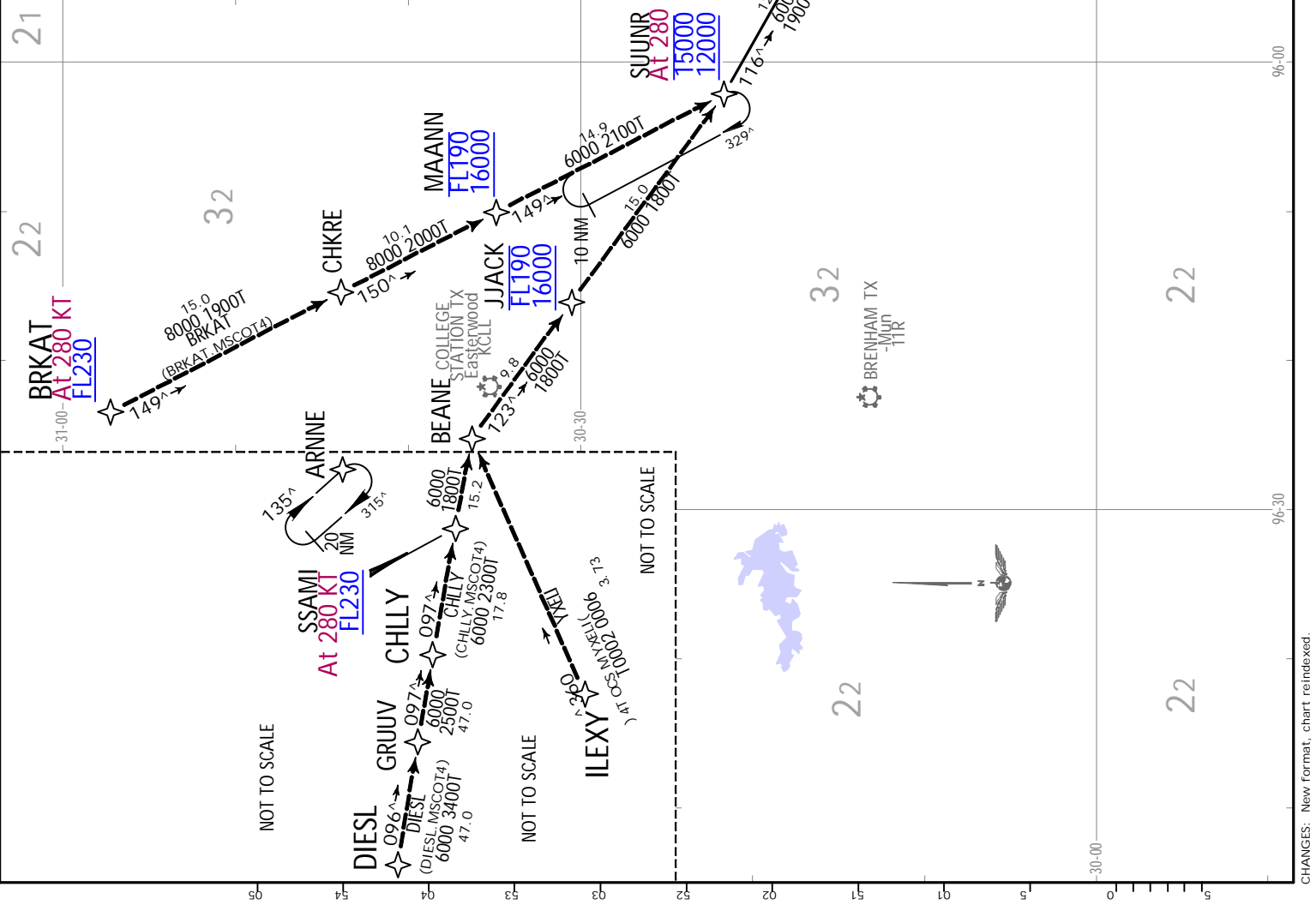
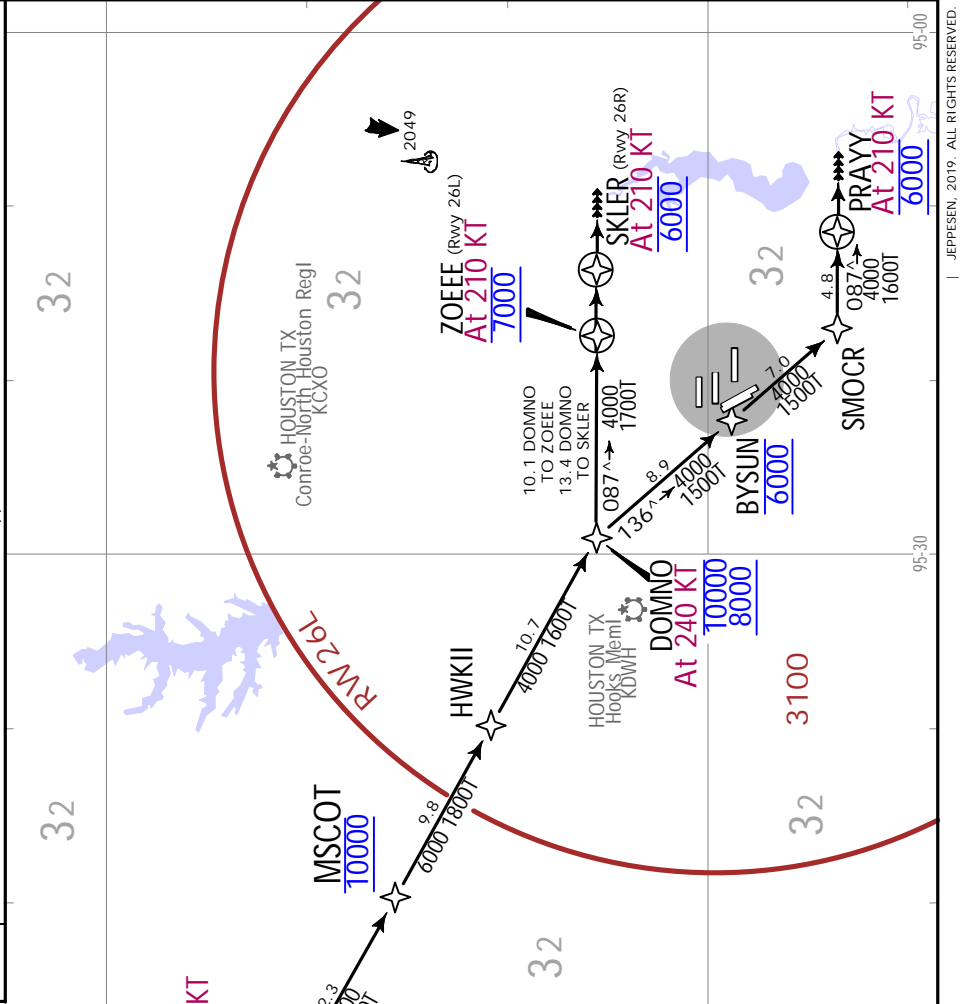
SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR.

ROUTING
 From SUUNR on track 116° to MSCOT, then on track 116° to HWKII, then on track 116° to DOMNO.

LANDING

RWY 26L	From DOMNO on track 087° to ZOELEE, then on track 087°. EXPECT vectors to final approach course.
26R	From DOMNO on track 087° to SKLER, then on track 087°. EXPECT vectors to final approach course.
27	From DOMNO on track 136° to BYSUN, then on track 136° to SMOCR, then on track 087° to PRAYY, then on track 087°. EXPECT vectors to final approach course.

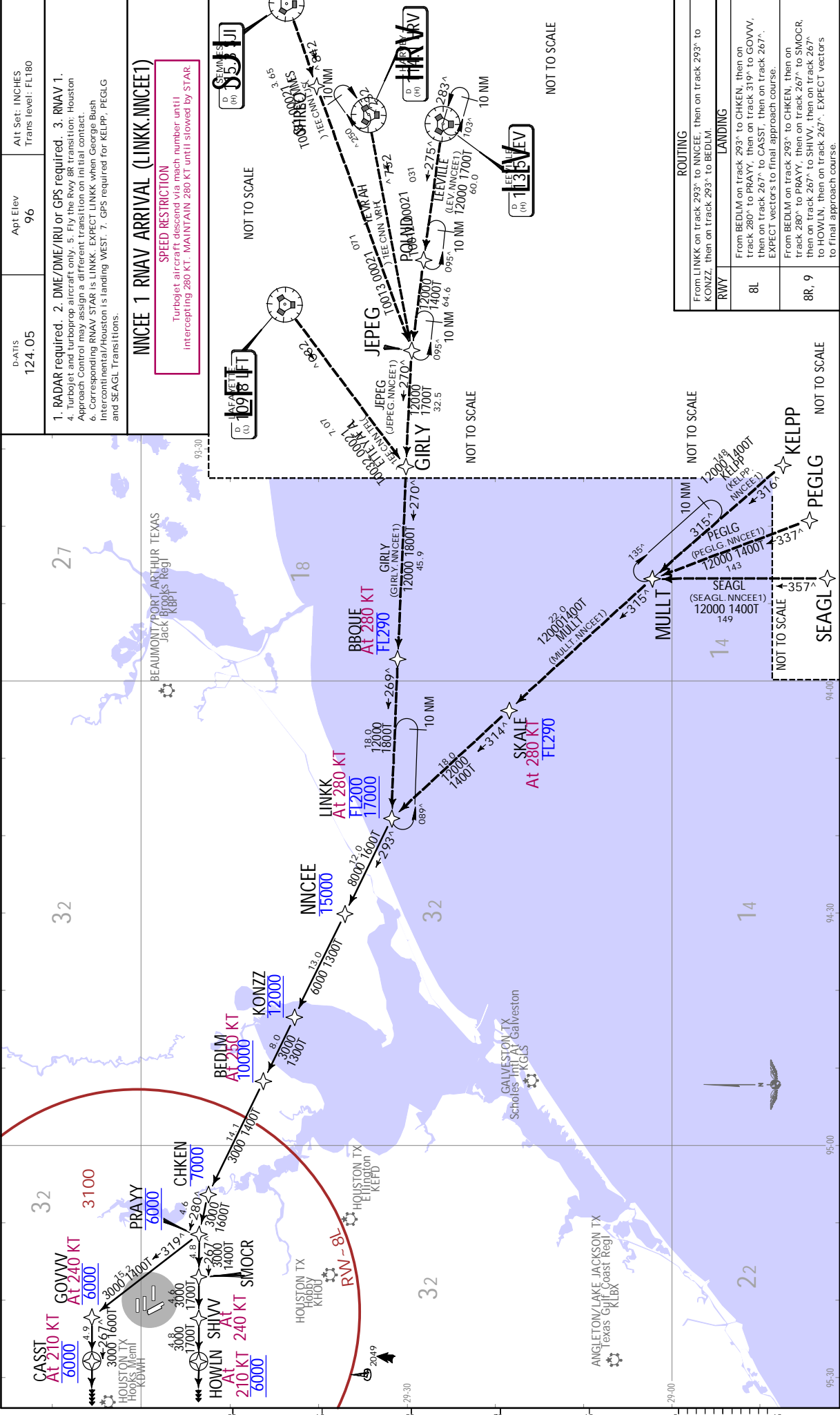
1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet and turboprop aircraft only. 5. Fly the Rwy 26R transition: Houston Approach Control may assign a different transition on initial contact. 6. Corresponding RNAV STAR is TTOKO. EXPECT TTOKO when George Bush Intercontinental/Houston is landing EAST. 7. BRKAT Transition ATC assigned only. 8. ILEXY Transition for Austin Terminal Area departures only.



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON
 15 NOV 19 70-2K
JEPPESSEN
 Alt Set: INCHES
 Trans level: FL180
 D-ATIS
 124.05
 Apt Elev
 96
HOUSTON TEXAS
 RNVAV STAR

1. RADAR required.
2. DME/DME/IRU or GPS required.
3. RNVAV 1.
4. Turbojet and turboprop aircraft only.
5. Fly the Rwy 8R transition. Houston Approach Control may assign a different transition on initial contact.
6. Corresponding RNVAV STAR is LINKK. EXPECT LINKK when George Bush Intercontinental/Houston is landing WEST. 7. GPS required for KELPP, PEGLG and SEAGL Transitions.

MNCEE 1 RNVAV ARRIVAL (LINKK-MNCEE1)
SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT. MAINTAIN 280 KT until slowed by STAR

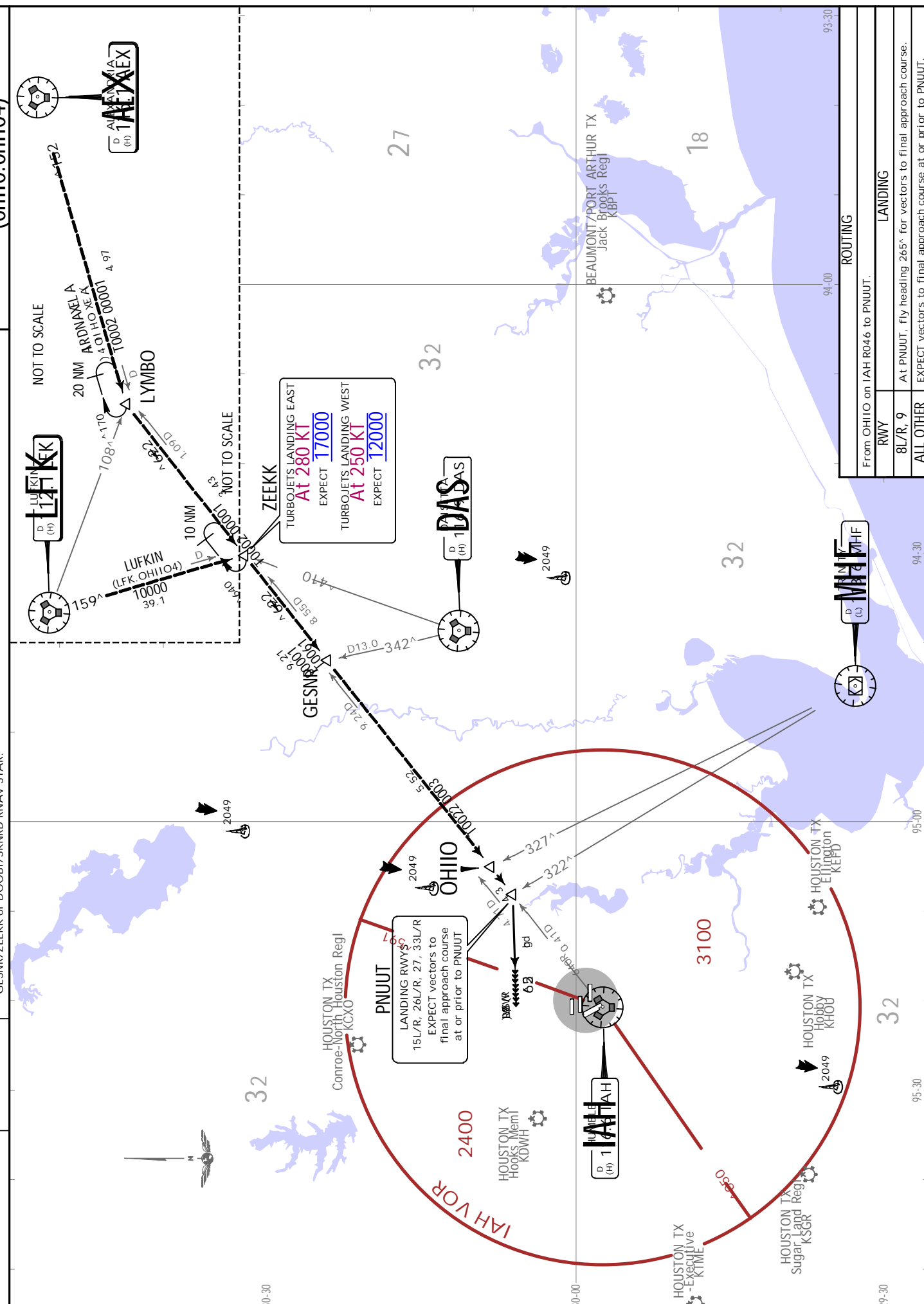


ROUTING	
From LINKK on track 293° to MNCEE, then on track 293° to KONZZ, then on track 293° to BEDIM	
LANDING	
RWY	Notes
8L	From BEDIM on track 293° to CHKEN, then on track 280° to PRAYY, then on track 319° to GOVVV, then on track 267° to CASST, then on track 267°, EXPECT vector to final approach course.
8R, 9	From BEDIM on track 293° to CHKEN, then on track 280° to PRAYY, then on track 267° to SMOCR, then on track 267° to SHVVV, then on track 267° to HOWLIN, then on track 267°, EXPECT vectors to final approach course.

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

HOUSTON, TEXAS
 STAR.

D-ATIS 124.05 Apt Elev 96 Alt Set: INCHES Trans level: FL180 DME/DME/IRU or GPS equipped turbojet aircraft landing George Bush Intercontinental/Houston must file the GESNR/ZEEKK or DOOBI/SKNRD RNAV STAR.



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON



HOUSTON, TEXAS
 .RNAV STAR.

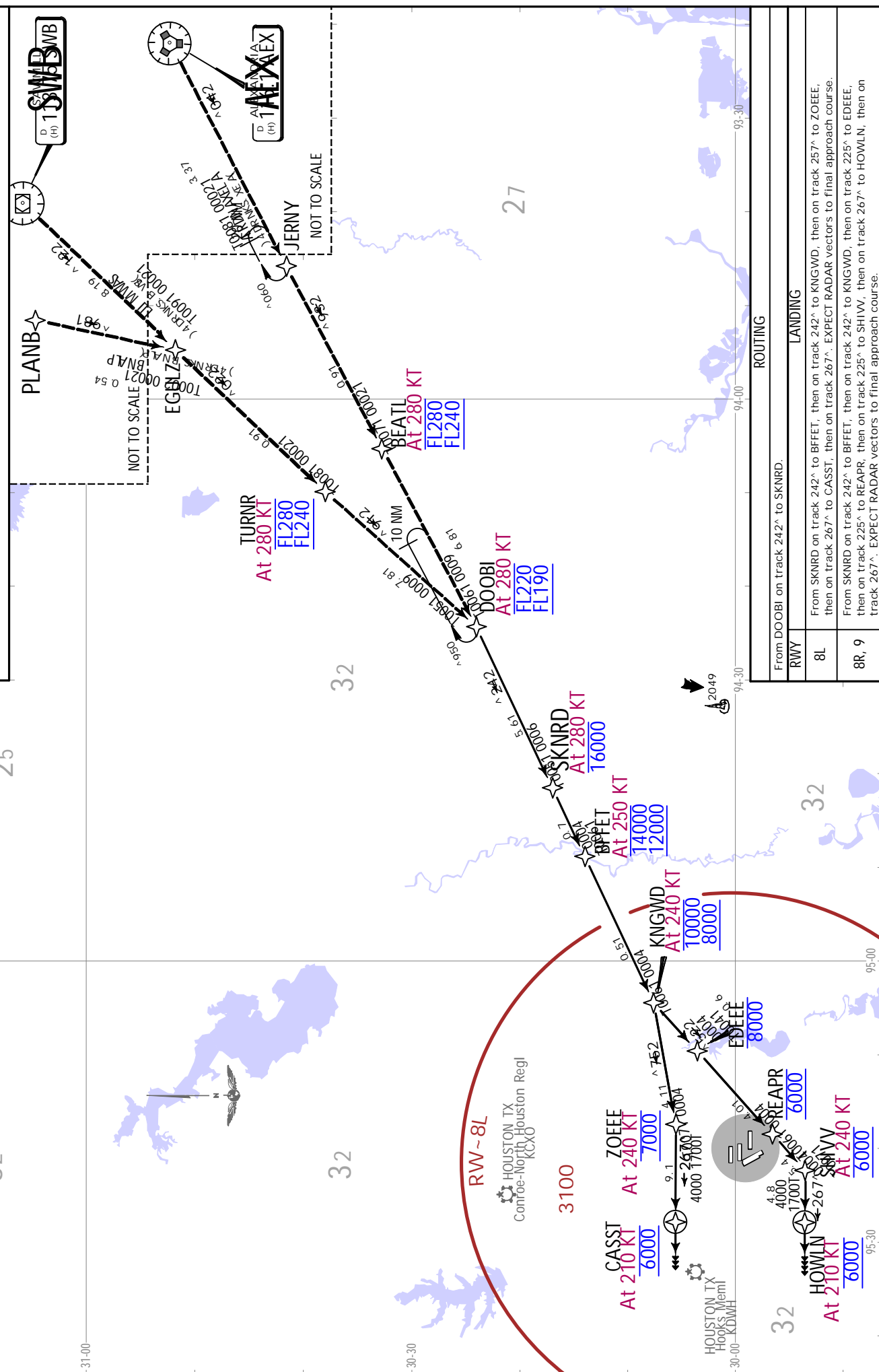
D-ATIS 124.05
 Apt Elev 96

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet and turboprop aircraft only.

5. Fly the runway 8L transition; Houston Approach control may assign a different transition on initial contact.
 6. Corresponding RNAV STAR is DOOBI. EXPECT DOOBI when George Bush Intercontinental/Houston is landing WEST.

SKNRD 4 RNAV ARRIVAL (DOOBI.SKNRD4)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT.
 MAINTAIN 280 KT until slowed by STAR.



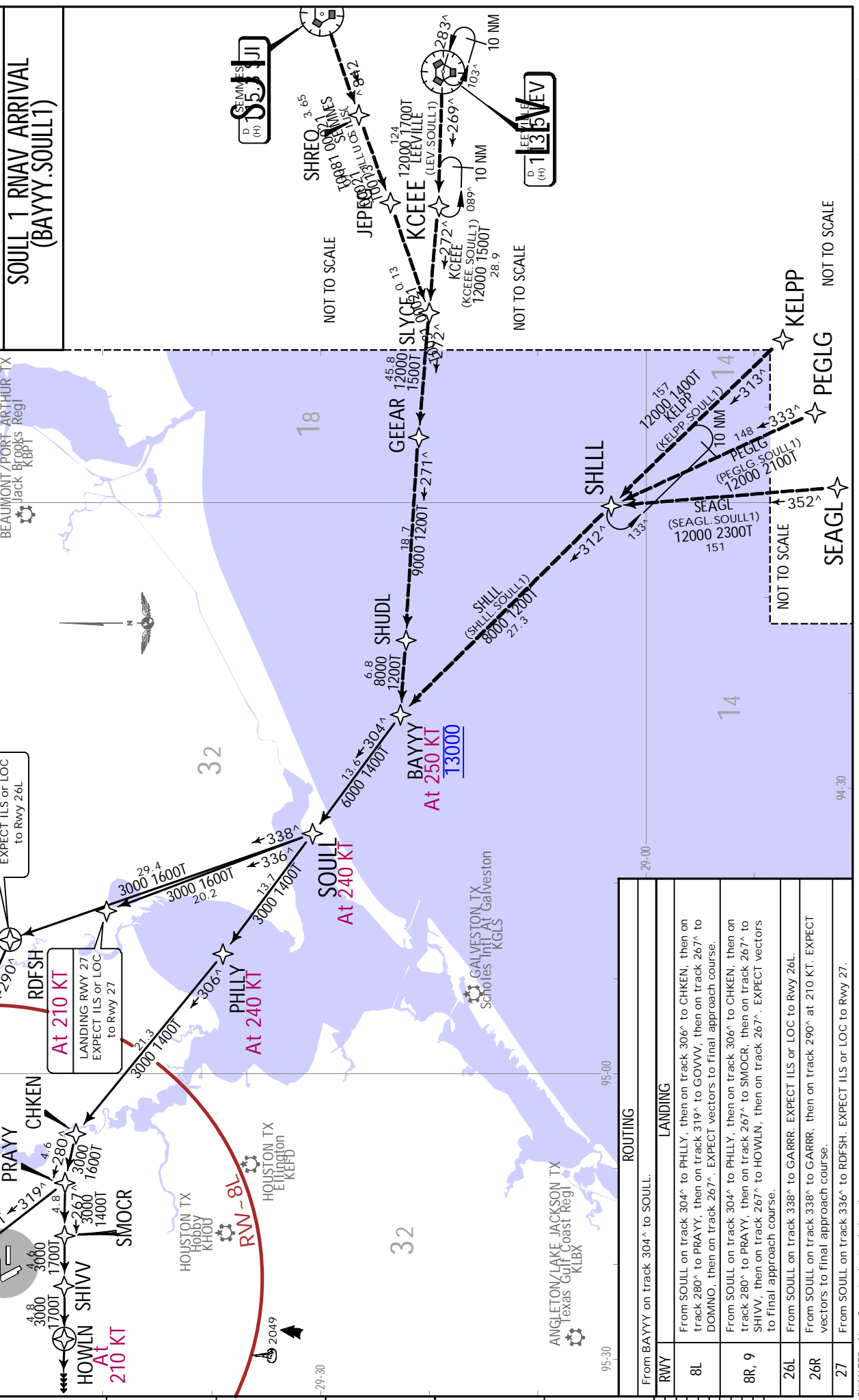
KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

D-ATIS
 124.05

Apt Elev
 96

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. RNAV 1.
 3. DME/DME/RU or GPS required.
 4. For turbojet and turboprop aircraft capable of 280 KT or greater only. 5. ATC assigned only.
 6. EXPECT runway assignment from Houston TRACON upon initial contact. 7. GPS required for KELPP, PEGLG and SEAGL Transitions.

SOULL 1 RNAV ARRIVAL (BAYYY.SOULL1)





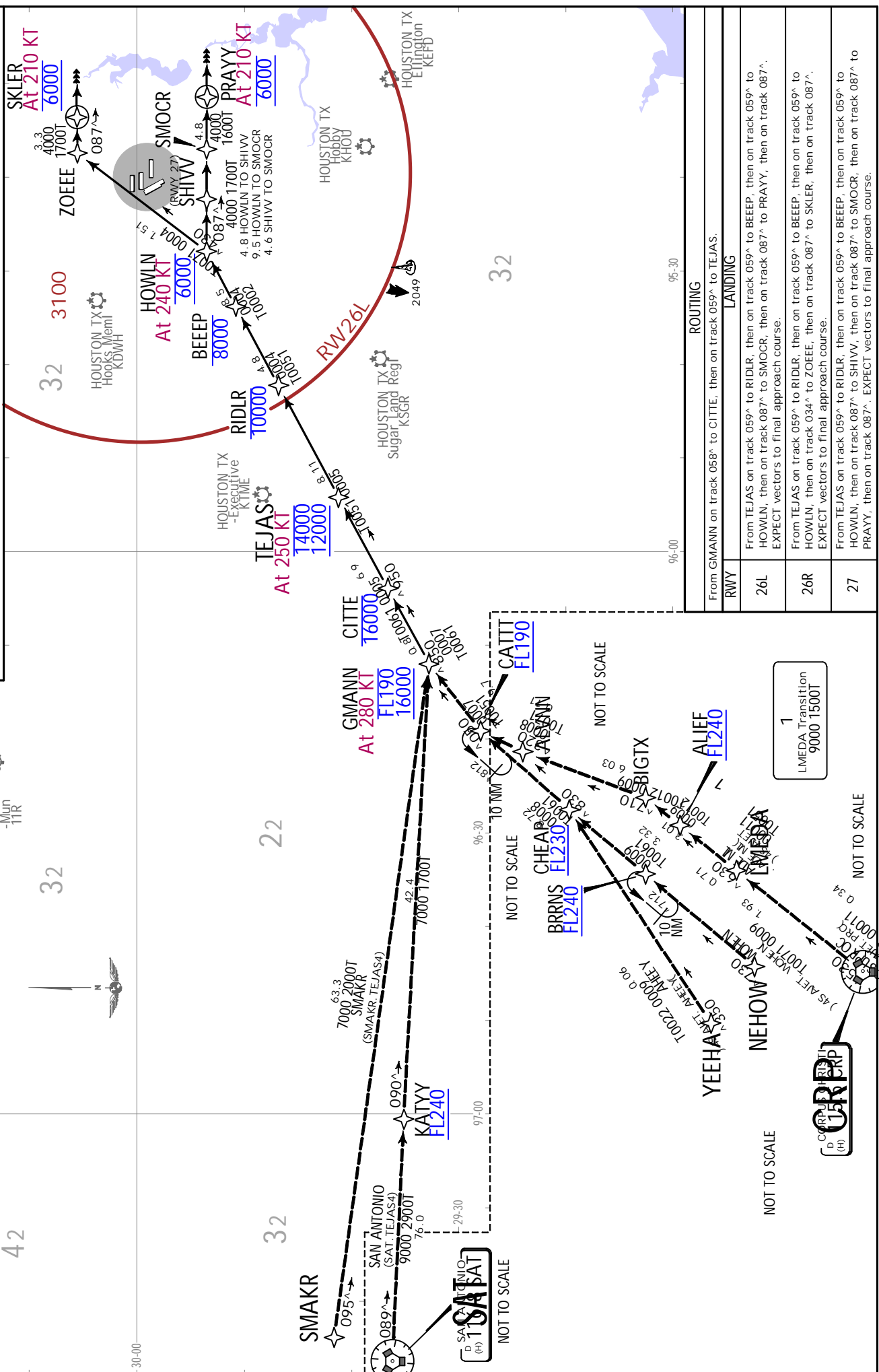
12 JUL 19 (70-20)

D-ATIS 124.05
Apt Elev 96
Alt Set: INCHES Trans level: FL180
1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
4. Turbojet and turboprop aircraft only.

5. Fly the runway 27 transition: Houston Approach Control may assign a different transition on initial contact.
6. Corresponding RNAV STAR is H7OWN. EXPECT H7OWN when George Bush Intercontinental/Houston is landing EAST.

TEJAS 4 RNAV ARRIVAL (GMANN.TEJAS4)

SPEED RESTRICTION
Turbojet aircraft descend via mach number until intercepting 280 KT.
MAINTAIN 280 KT until slowed by STAR.



ROUTING	
From GMANN on track 058° to CITTE, then on track 059° to TEJAS.	
LANDING	
26L	From TEJAS on track 059° to RIDLR, then on track 059° to BEEP, then on track 059° to HOWLN, then on track 087° to SMOCR, then on track 087° to PRAYY, then on track 087°. EXPECT vectors to final approach course.
26R	From TEJAS on track 059° to RIDLR, then on track 059° to BEEP, then on track 059° to HOWLN, then on track 034° to ZOEFE, then on track 087° to SKLER, then on track 087°. EXPECT vectors to final approach course.
27	From TEJAS on track 059° to RIDLR, then on track 059° to BEEP, then on track 059° to HOWLN, then on track 087° to SHIVV, then on track 087° to SMOCR, then on track 087° to PRAYY, then on track 087°. EXPECT vectors to final approach course.

JEPPesen HOUSTON, TEXAS
.RNAV.STAR.

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

D-ATIS
 124.05

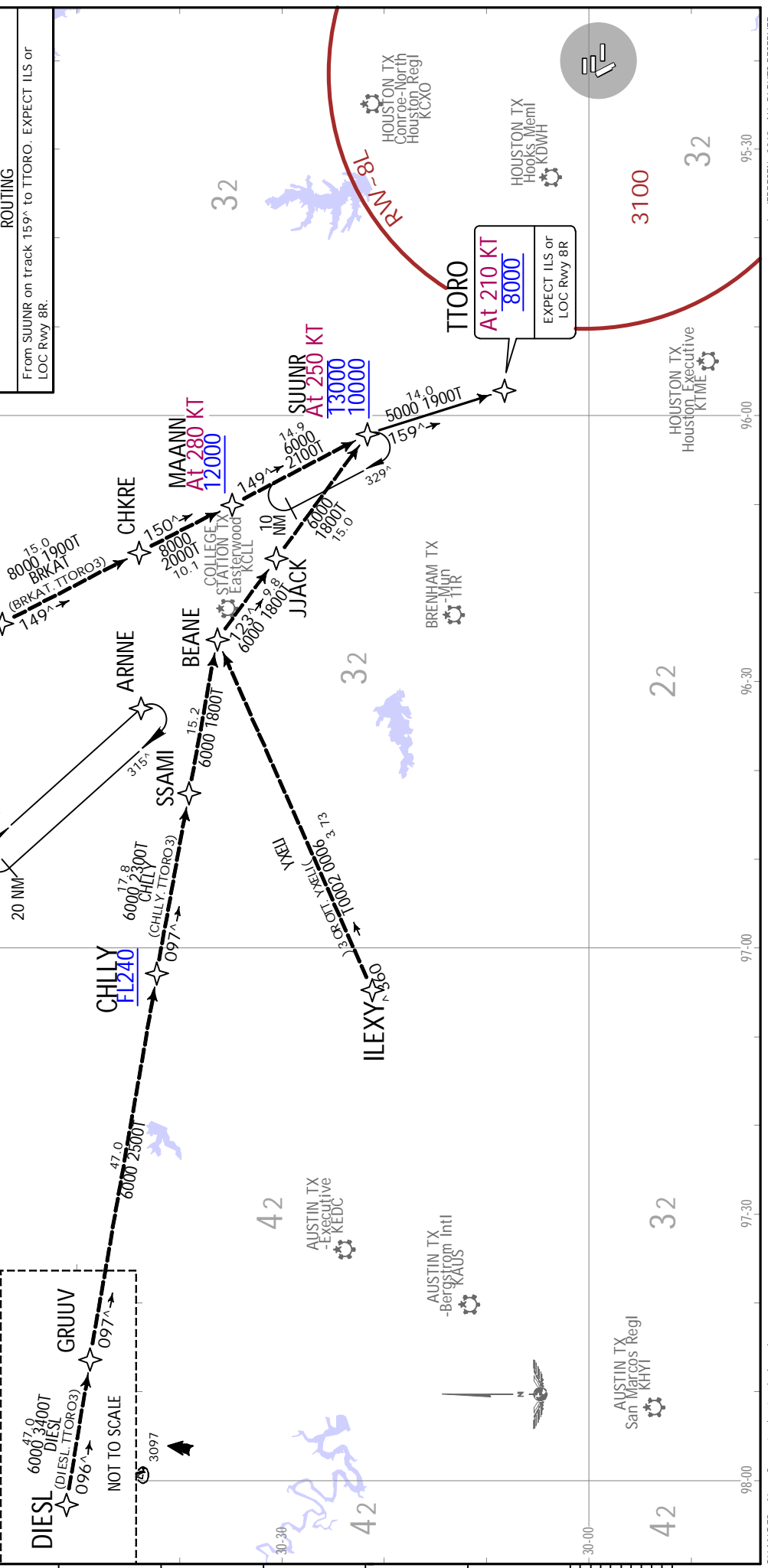
Apt Elev
 96

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. RNAV 1.
 3. DME/DME/RU or GPS required.
 4. Turbojet and turboprop aircraft only. 5. EXPECT runway assignment from Houston TRACON upon initial contact. 6. Corresponding RNAV STAR is MSCOT. EXPECT MSCOT when George Bush Intercontinental/Houston is landing WEST.
 7. BRKAT Transition ATC assigned only. 8. ILEXY Transition for Austin Terminal Area departures only.

TTORO 3 RNAV ARRIVAL (SUUNR.TTORO3)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT.
 MAINTAIN 280 KT until slowed by the STAR.

ROUTING
 From SUUNR on track 159° to TTORO. EXPECT ILS or LOC Rwy 8R.

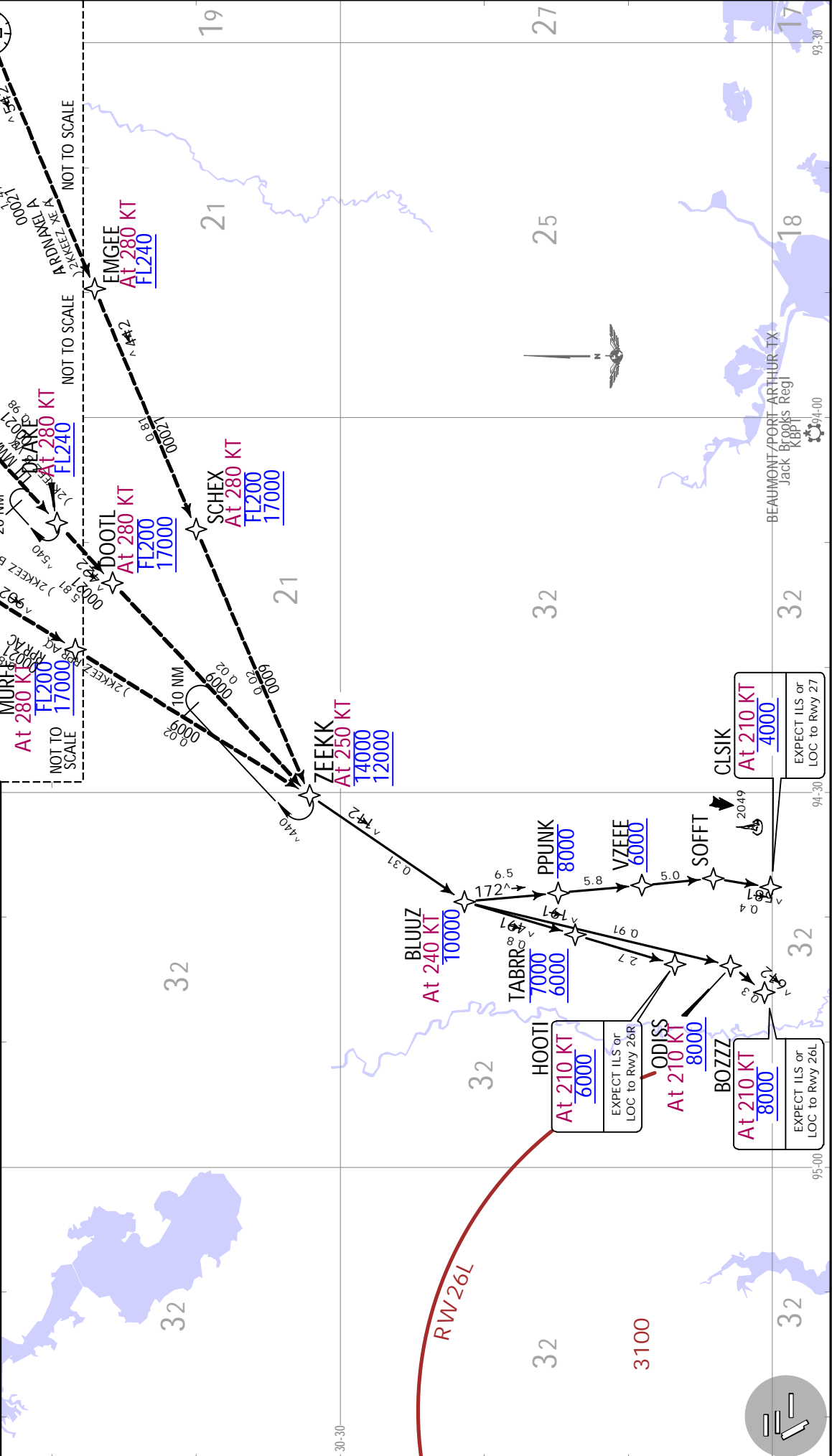


ZEEKK 2 RNAV ARRIVAL (ZEEKK.ZEEKK2)

SPEED RESTRICTION
 Turbojet aircraft descend via mach number until intercepting 280 KT.
 MAINTAIN 280 KT until slowed by STAR.

- Alt. Set: INCHES Trans level: FL180
1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. Turbojet or turboprop aircraft capable of 280 KT or greater only. 5. Fly the runway 26R transition: Houston Approach Control may assign a different transition on initial contact.
 6. Corresponding RNAV STAR is GESNR. EXPECT GESNR when George Bush Intercontinental/Houston is landing EAST. 7. Except for aircraft departing Shreveport Regl, PLANB transition is ATC assigned only; do not file. 8. CARPR transition is ATC assigned only; do not file.

ROUTING	
From ZEEKK on track 211° to BLUUZ.	
LANDING	
26L	From BLUUZ on track 191° to ODISS, then on track 216° to BOZZZ. EXPECT ILS or LOC Rwy 26L.
26R	From BLUUZ on track 194° to TABRR, then on track 194° to HOOTL. EXPECT ILS or LOC Rwy 26R.
27	From BLUUZ on track 172° to PPUNK, then on track 172° to VZEEE, then on track 172° to SOFFT, then on track 185° to CLSIK. EXPECT ILS or LOC Rwy 27.



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

HOUSTON
 Departure (R)
 132.25

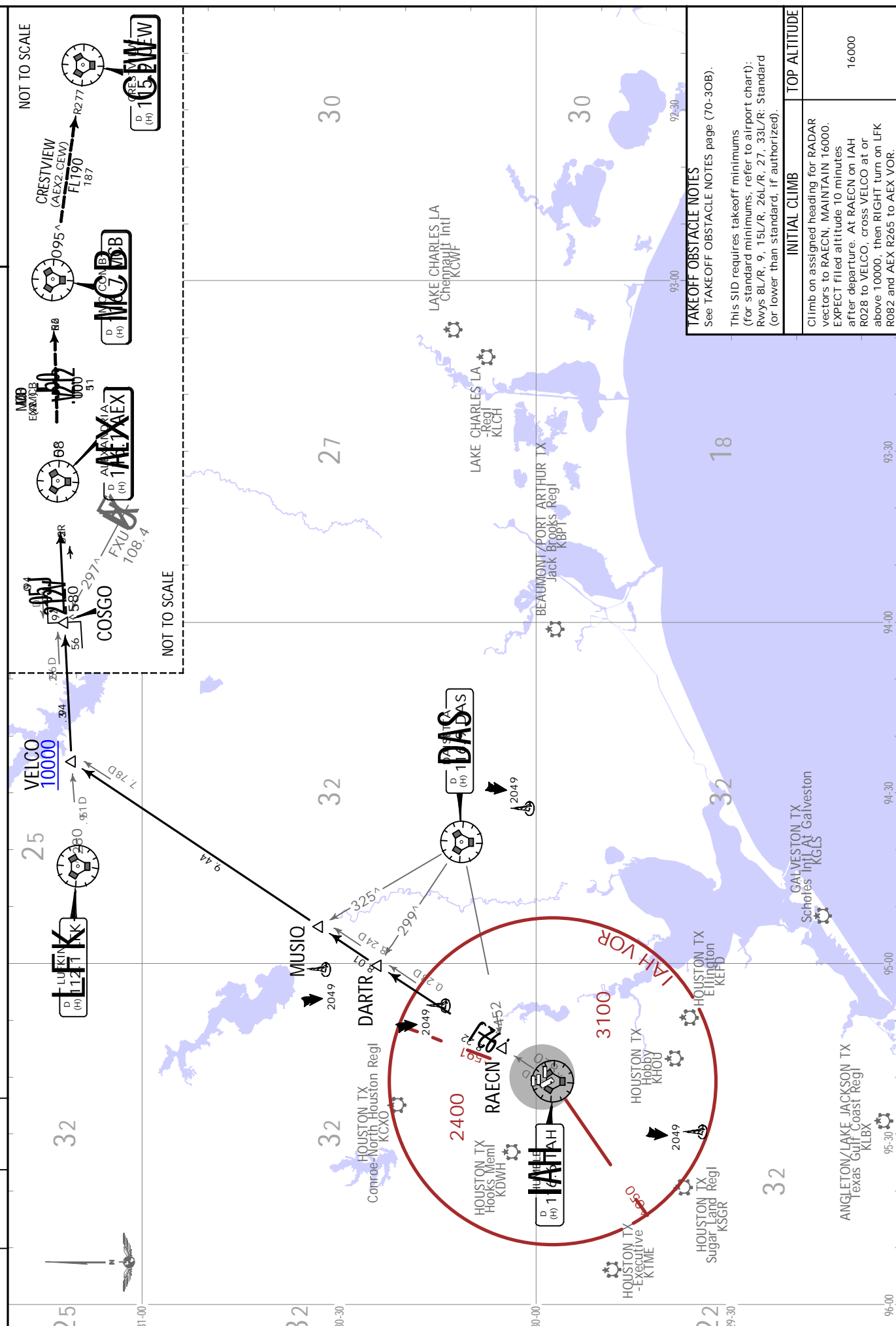
Apt Elev
 96

Trans alt:
 18000

JEPPESENHOUSTON, TEXAS
 SID
 29 NOV 19 (70-3) Eff. 5 Dec.

ALEXANDRIA 2 DEPARTURE
 (AEX2.AEX)

1. RADAR required. 2. CRESTVIEW and MC COMB transitions are ATC assigned only. Do not file. 3. CRESTVIEW transition for aircraft being weather rerouted to join a jet route off CEW VOR or overflying CEW VOR to join a direct route. 4. MC COMB transition for aircraft being weather rerouted to join a jet route off MCB VOR or overflying MCB VOR to join a direct route.



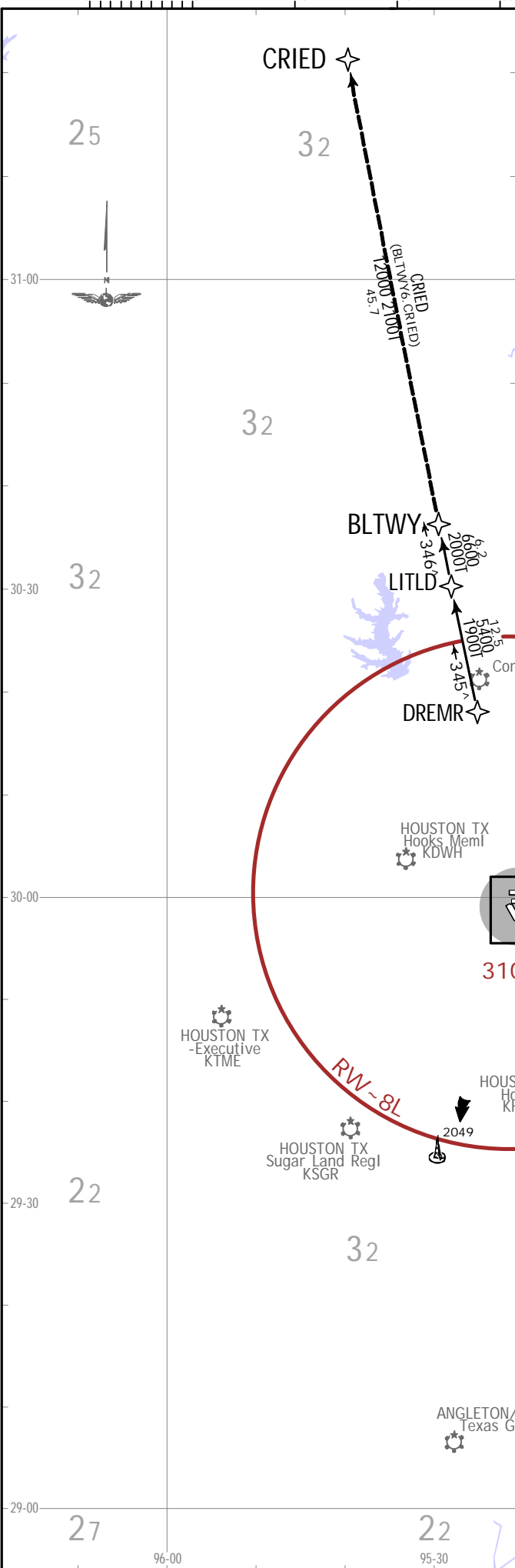
TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (70-30B).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
 Rwy 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized).

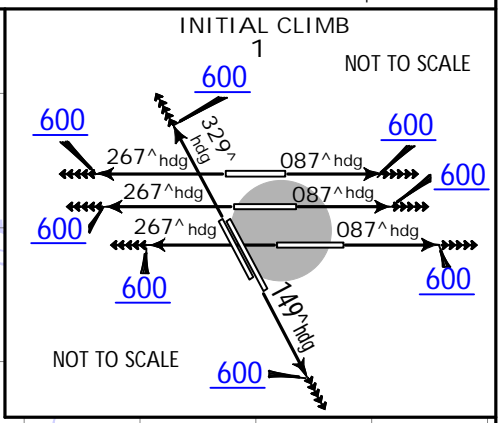
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
 EXPECT filed altitude 10 minutes after departure. At RAECN on IAH R028 to VELCO, cross VELCO at or above 10000, then RIGHT turn on LFK R082 and AEX R265 to AEX VOR.

INITIAL CLIMB	TOP ALTITUDE
Climb on assigned heading for RADAR vectors to RAECN, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. At RAECN on IAH R028 to VELCO, cross VELCO at or above 10000, then RIGHT turn on LFK R082 and AEX R265 to AEX VOR.	16000

CHANGES: Rel issue.



HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.				
BLTWY 6 RNAV DEPARTURE (BLTWY6.BLTWY)						
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B).				
Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
RWY	INITIAL CLIMB					TOP ALTITUDE
8L/R, 9	Climb heading 087° to 600 for RADAR vectors to DREMR.					16000
15L/R	Climb heading 149° to 600 for RADAR vectors to DREMR.					
26L/R, 27	Climb heading 267° to 600 for RADAR vectors to DREMR.					
33L/R	Climb heading 329° to 600 for RADAR vectors to DREMR.					
ROUTING						
From DREMR on track 345° to LITLD, then on track 346° to BLTWY, then on transition. MAINTAIN 16000 or as assigned by ATC. EXPECT filed altitude 10 minutes after departure.						



FOR INTIAL CLIMB
REFER TO INSET
1

BLTWY 6 RNAV DEPARTURE
(BLTWY6.BLTWY)

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON
 JEPPESEN
 29 NOV 19
 70-3A Eff. 5 Dec.
 HOUSTON, TEXAS
 RNAV.SID

JEPPESEN, 2019. ALL RIGHTS RESERVED.

HOUSTON Departure (R)
 126.675
 Apt Elev 96

Trans alt: 18000
 1. RADAR required.
 2. RNAV 1
 3. DME/DME/IRU or GPS required.
 4. For use during WEST flow at George Bush Intercontinental/Houston, for EAST flow file the PITZZ Departure.

BNDTO 5 RNAV DEPARTURE
 (BNDTO5.BNDTO)

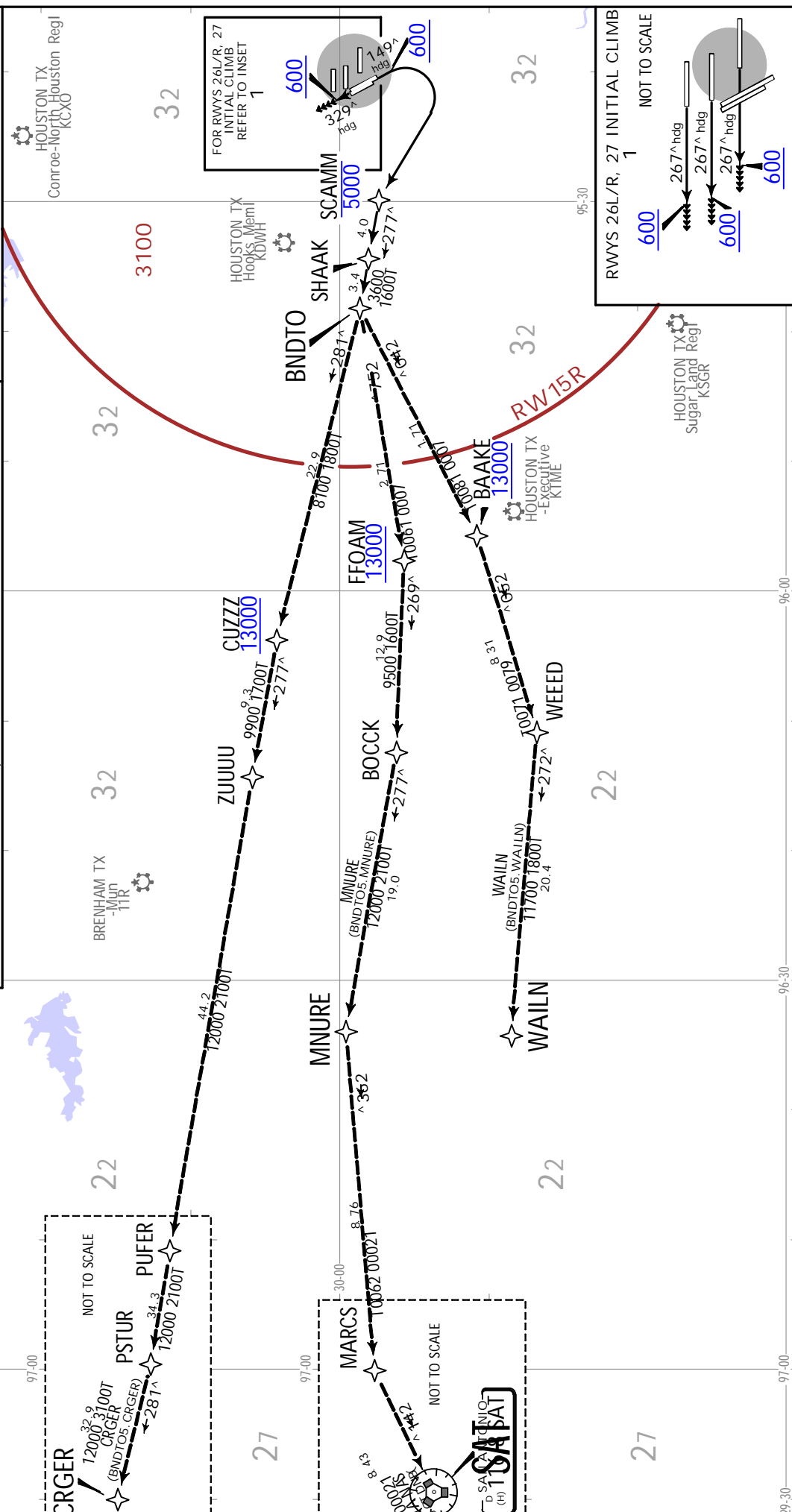
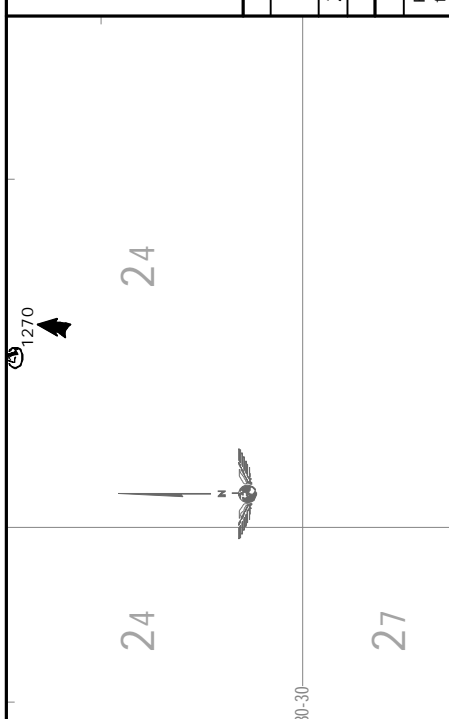
TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (70-30B).

Obstacle	500 per NM	75	100	150	200	250	300
Gnd speed-KT	625	833	1250	1667	2083	2500	

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
 Rwy 15L/R, 26L/R, 27, 33L/R: Standard minimum climb of 500 per NM to 1200.

Rwy	Initial Climb	Top Altitude
15L/R	Climb heading 149° to 600, then RIGHT turn direct to cross SCAMM at or below 5000, then on track 277° to SHAAK.	16000
26L/R, 27	Climb heading 267° to 600. EXPECT RADAR vectors to SHAAK.	
33L/R	Climb heading 329° to 600. EXPECT RADAR vectors to SHAAK.	

ROUTING
 From SHAAK on track 277° to BNDTO, then on transition. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure.



CHANGES: Re-issue

COY
 (L) 114.8
 (M) 114.8
 (H) 114.8
 R114

NOT TO SCALE

HOUSTON Departure (R)
132.25

Apt Elev
96

Trans alt: 18000
RADAR required.

CRIED 9 DEPARTURE (CRIED9.CRIED)

This SID requires takeoff minimums
(for standard minimums, refer to airport chart):
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard
(or lower than standard, if authorized).

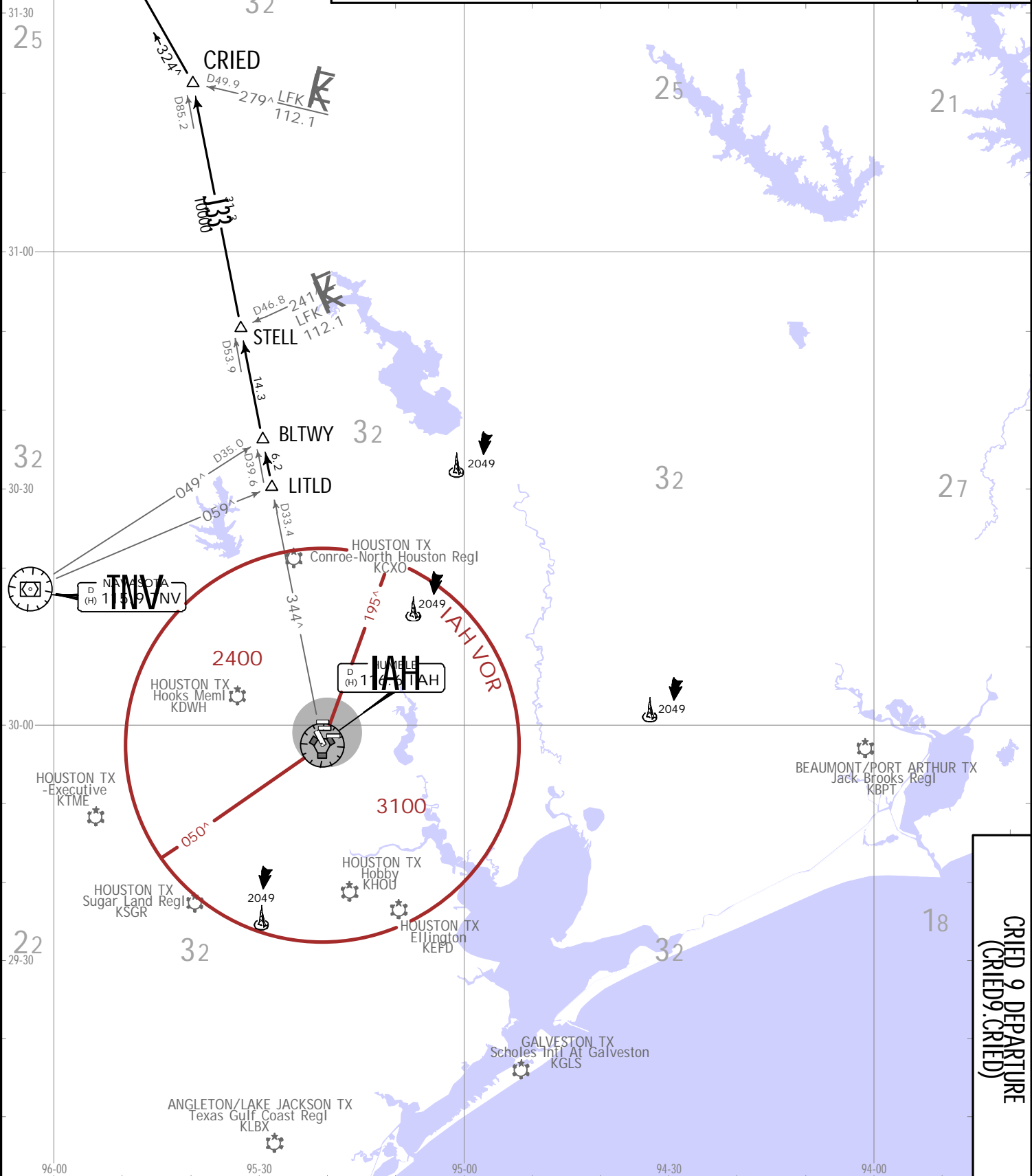
TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (70-30B).

INITIAL CLIMB

TOP ALTITUDE

Climb on assigned heading for RADAR vectors to LITLD, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. From LITLD on IAH R344 to STELL, then on IAH R344 to CRIED, then LEFT turn on COY R144 to COY VOR.

16000



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

(70-3C) 15 NOV 19

CRIED 9 DEPARTURE
 (CRIED9.CRIED)

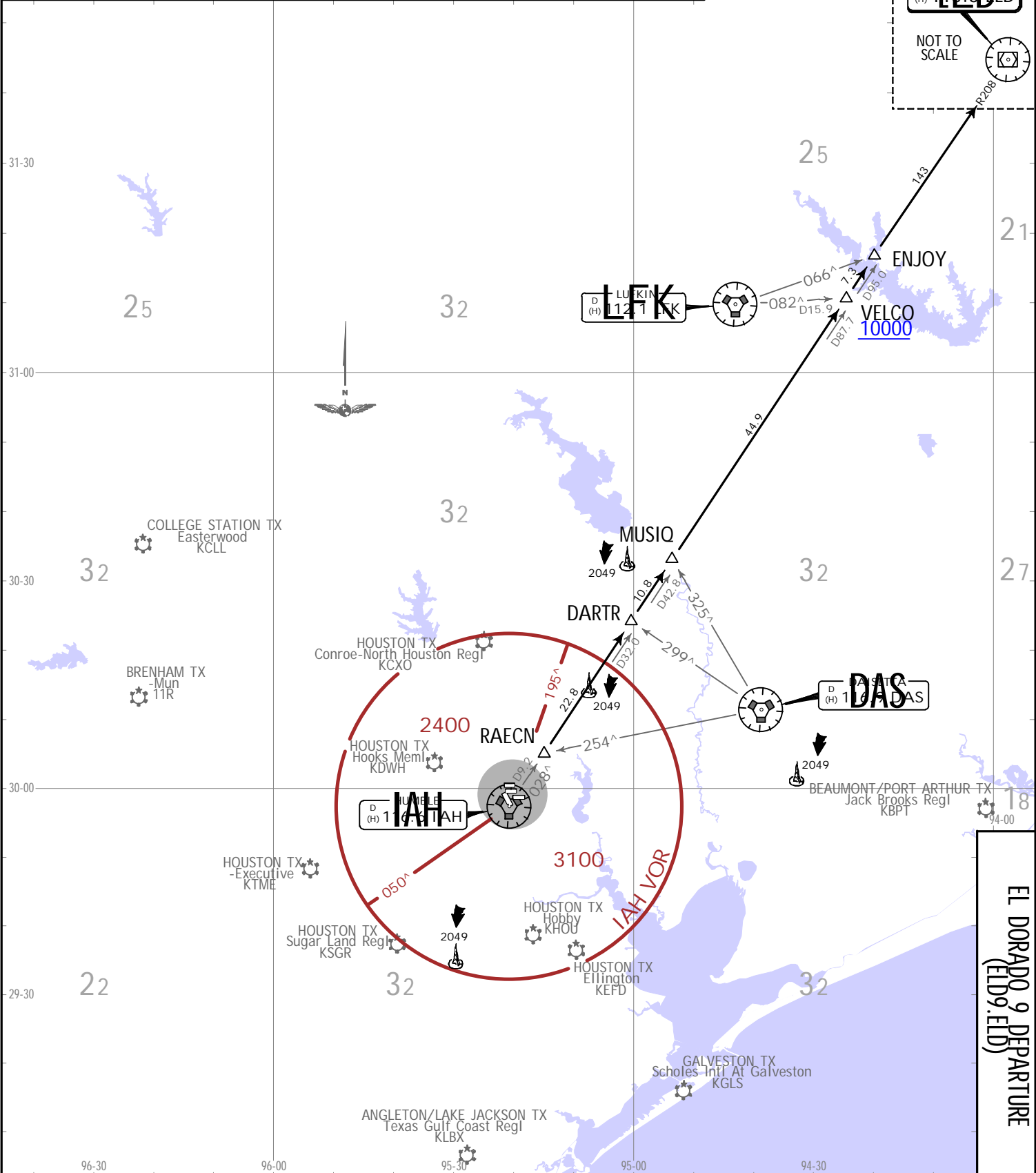
HOUSTON, TEXAS
SID

JEPPesen, 2019. ALL RIGHTS RESERVED.

CHANGES: Reissue.

HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. For aircraft destined Memphis Intl (MEM) or filed on O-32 or J-42.
EL DORADO 9 DEPARTURE (ELD9.ELD)		
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized).		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-3OB).
INITIAL CLIMB		TOP ALTITUDE
Climb on assigned heading for RADAR vectors to RAECN, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. From RAECN on IAH R028 and the ELD R208 to ELD VOR, cross VELCO at or above 10000.		16000

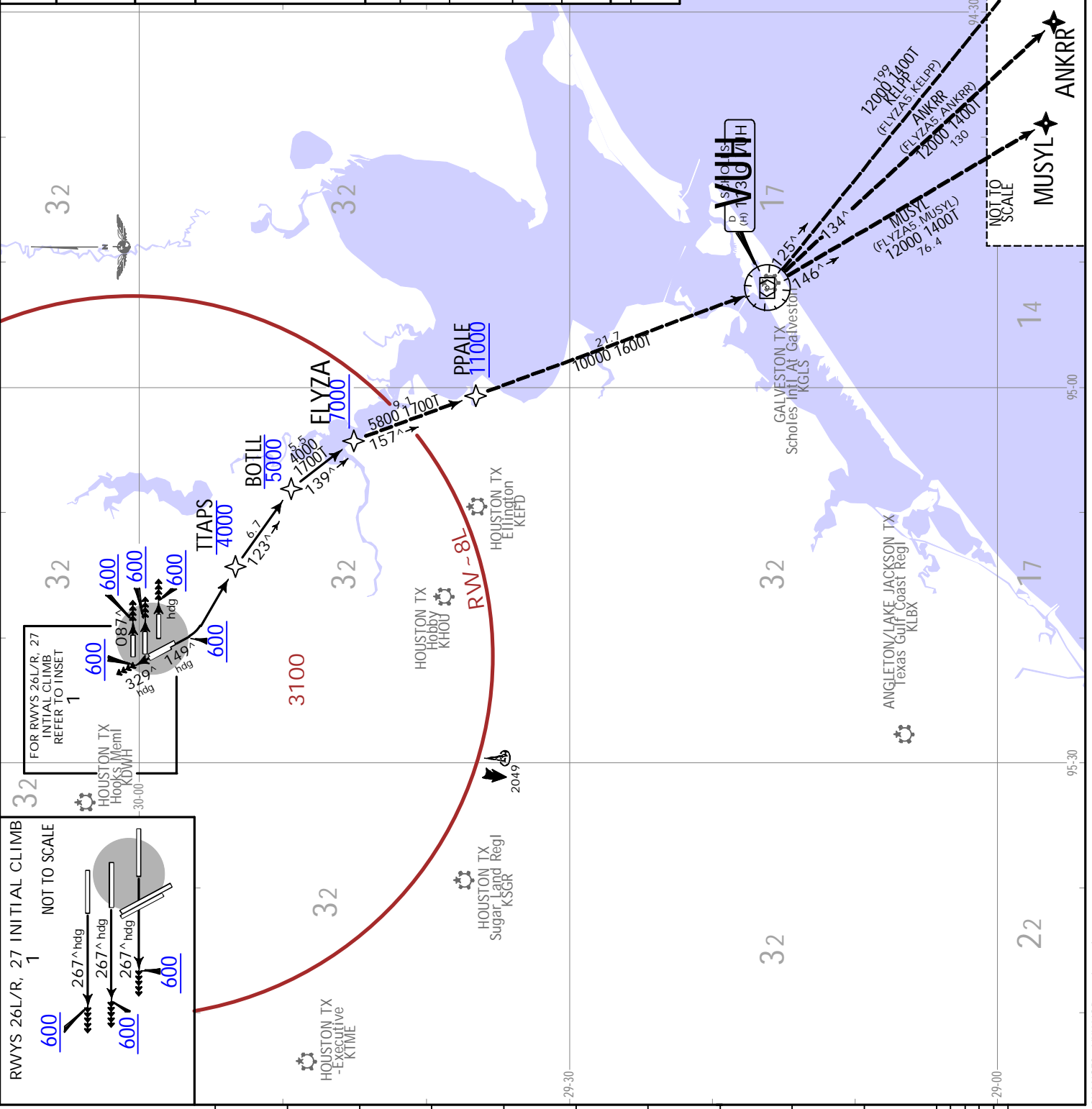
KIAH/IAH
GEORGE BUSH
INTERCONTINENTAL/HOUSTON



EL DORADO 9 DEPARTURE
(ELD9.ELD)
 SID
 15 NOV 19 (70-3D)
JEPPESSEN HOUSTON, TEXAS

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HOUSTON Departure (R)	127.125	Apt Elev	96			
Trans alt: 18000 1. RADAR required. 2. RNAV 1. 3. GPS required.						
FLYZA 5 RNAV DEPARTURE (FLYZA5.FLYZA)						
TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B). This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwy 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 800.						
Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
RWY	INITIAL CLIMB					TOP ALTITUDE
8L/R, 9	Climb heading 087° to 600, EXPECT RADAR vectors to cross BOTLL at or below 5000.					
15L/R	Climb heading 149° to 600, then LEFT turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000.					
26L/R, 27	Climb heading 267° to 600, EXPECT RADAR vectors to cross BOTLL at or below 5000.					16000
33L/R	Climb heading 329° to 600, EXPECT RADAR vectors to cross BOTLL at or below 5000.					
ROUTING						
From BOTLL on track 139° to cross FLYZA at or above 7000, then on transition. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure.						

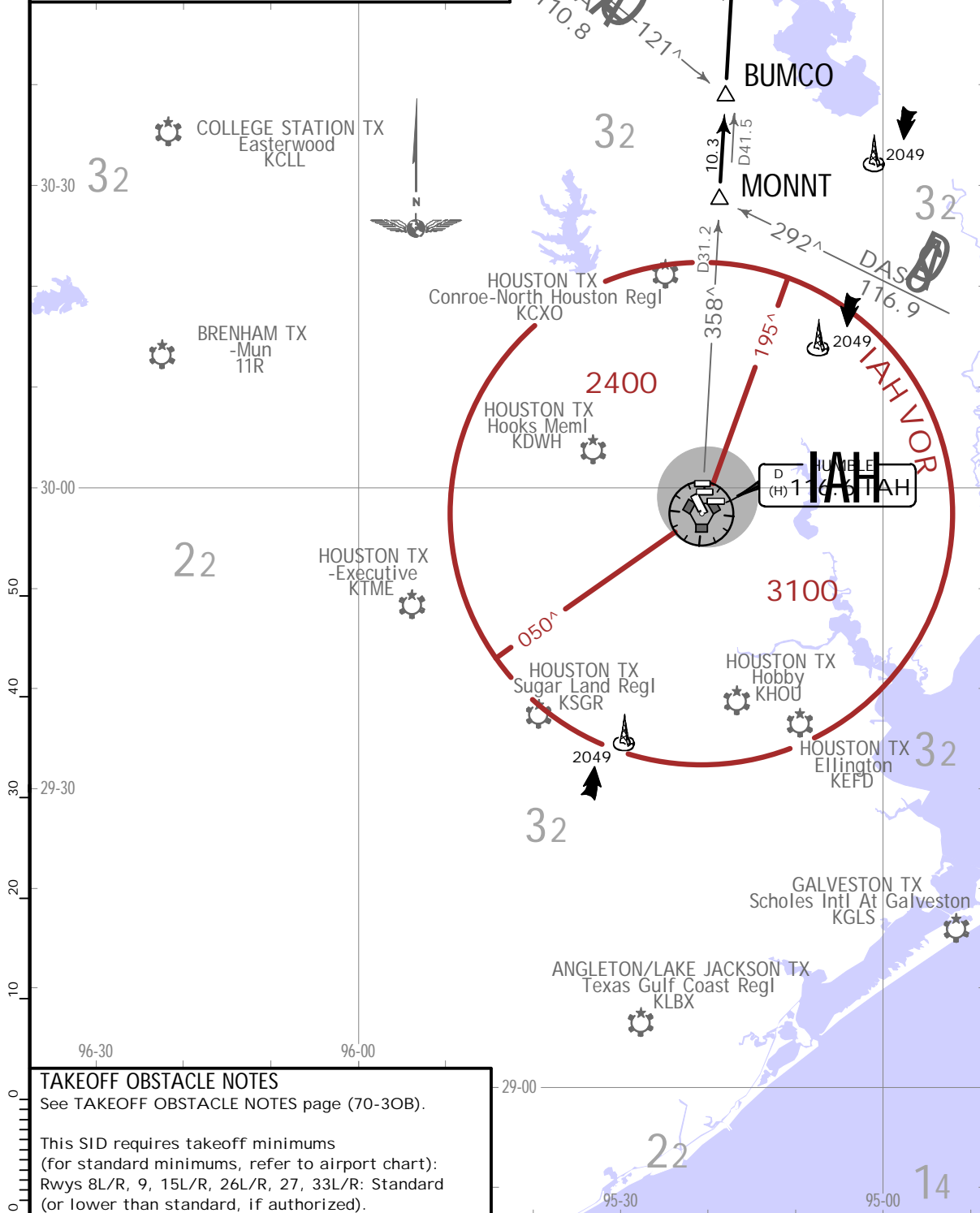


KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

JEPPESSEN
 70-3F 15 NOV 19

HOUSTON, TEXAS
 .SID.

HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000
1. RADAR required. 2. For aircraft destined for Dallas Ft Worth (DFW) terminal area only.		
GIFFA 9 DEPARTURE (GIFFA9.GIFFA)		



TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (70-30B).
 This SID requires takeoff minimums
 (for standard minimums, refer to airport chart):
 Rwy 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard
 (or lower than standard, if authorized).

INITIAL CLIMB	TOP ALTITUDE
Climb on assigned heading for RADAR vectors to MONNT, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. From MONNT on IAH R358 to cross GIFFA at or above 10000.	16000

CHANGES: Re-issue.

HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1. 4. TPAKK transition: For non-GPS equipped aircraft TNV DME must be operational.
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INDIE 7 RNAV DEPARTURE (INDIE7.INDIE)

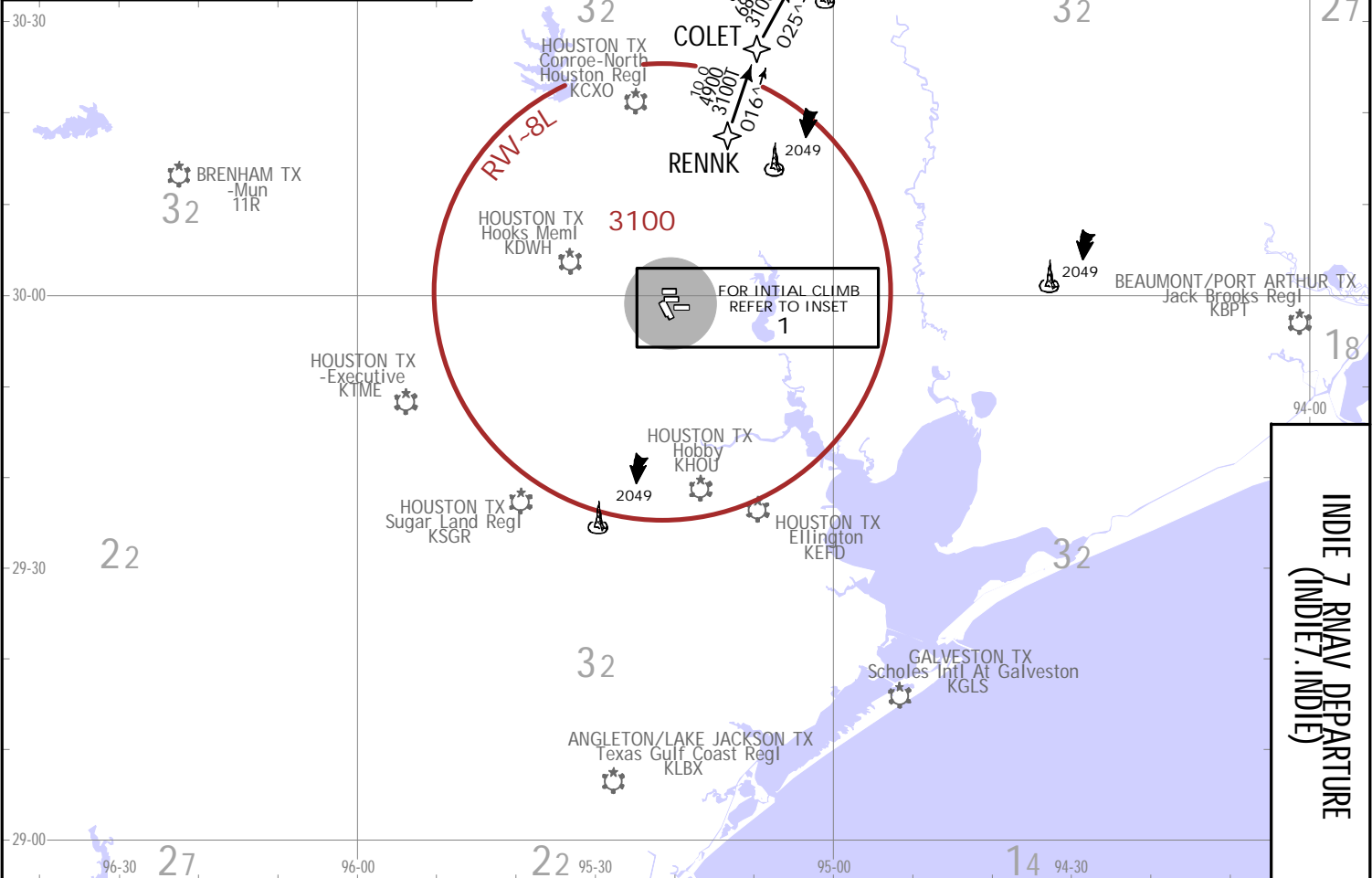
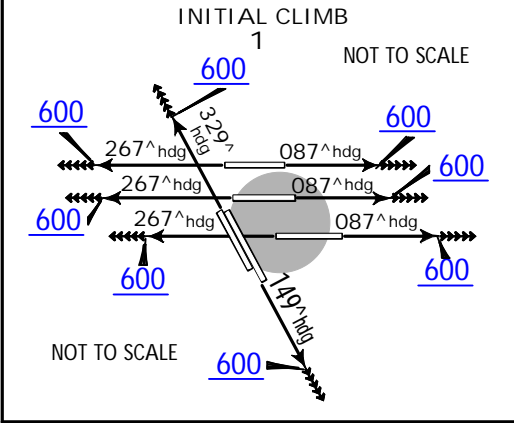
This SID requires takeoff minimums (for standard minima, refer to airport chart):
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (70-30B).

RWY	INITIAL CLIMB	TOP ALTITUDE
8L/R, 9	Climb heading 087° to 600 for RADAR vectors to RENNK.	16000
15L/R	Climb heading 149° to 600 for RADAR vectors to RENNK.	
26L/R, 27	Climb heading 267° to 600 for RADAR vectors to RENNK.	
33L/R	Climb heading 329° to 600 for RADAR vectors to RENNK.	

ROUTING
From RENNK on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on transition. MAINTAIN 16000 or as assigned by ATC. EXPECT filed altitude 10 minutes after departure.



INDIE 7 RNAV DEPARTURE (INDIE7.INDIE)

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON
 HOUSTON, TEXAS
 RNAV.SID

JEPPESEN
 (70-3J)
 15 NOV 19

JEPPESEN, 2019. ALL RIGHTS RESERVED.

HOUSTON Departure (R)
126.675
Apt Elev 96

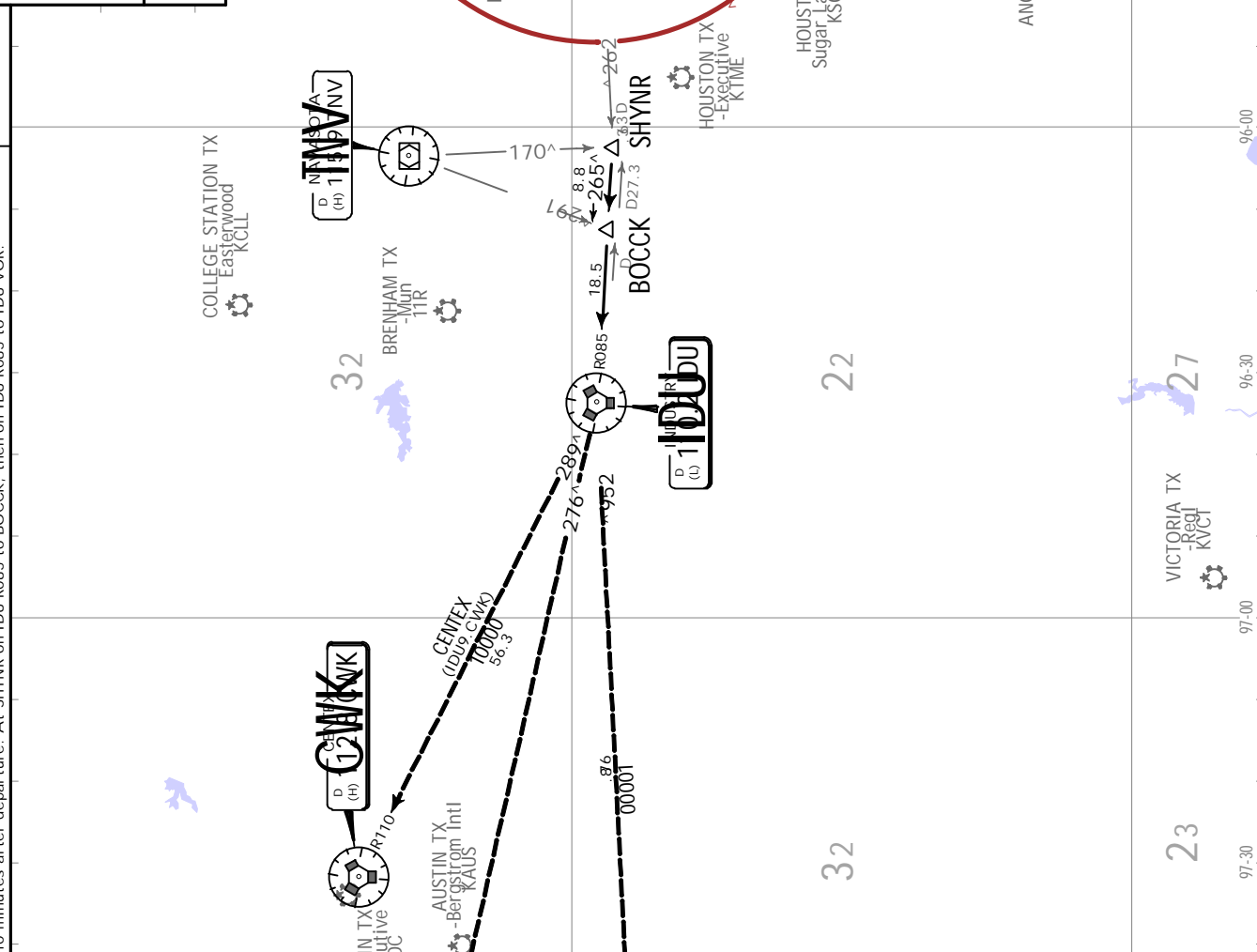
Trans alt: 18000
1. **RADAR required.**
2. CENTEX transition: ATC assigned only for aircraft inbound to the Dallas-Ft Worth (DFW) metropolitan area that are being rerouted due to bad weather.
3. JUNCTION transition: For aircraft overflying JCT VOR on J-2, J-15 or J-86.
4. CORPUS CHRISTI transition: ATC assigned only.
5. LAREDO transition: ATC assigned only.

INDUSTRY 9 DEPARTURE (IDU9.IDU)

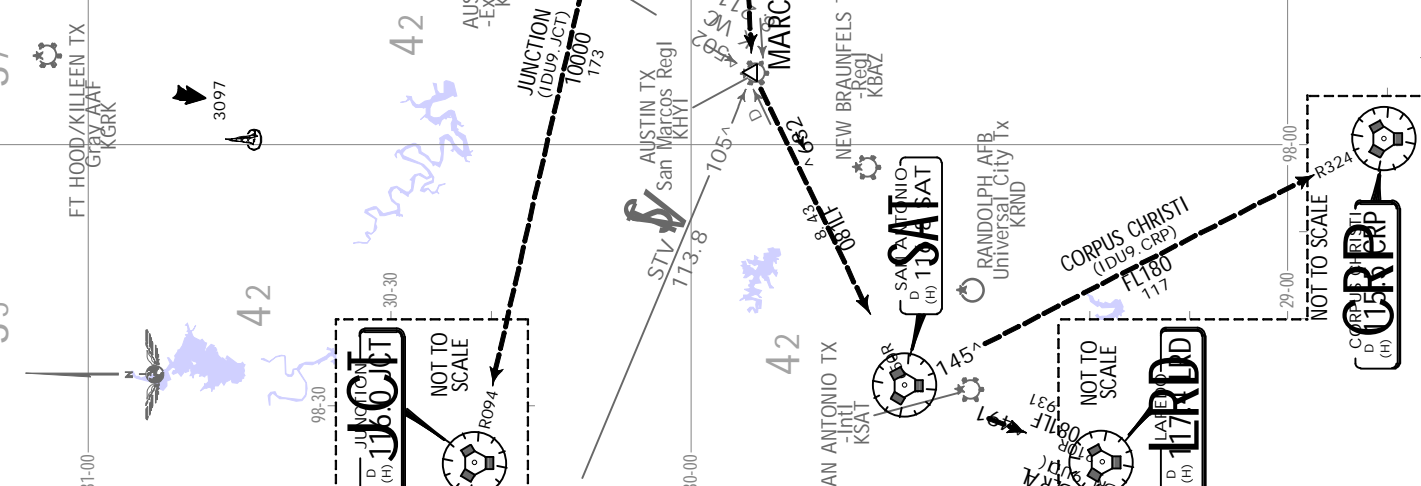
TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (70-30B).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized).

INITIAL CLIMB
Climb on assigned heading for RADAR vectors to SHYNR, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. At SHYNR on IDU R085 to BOCCK, then on IDU R085 to IDU VOR.



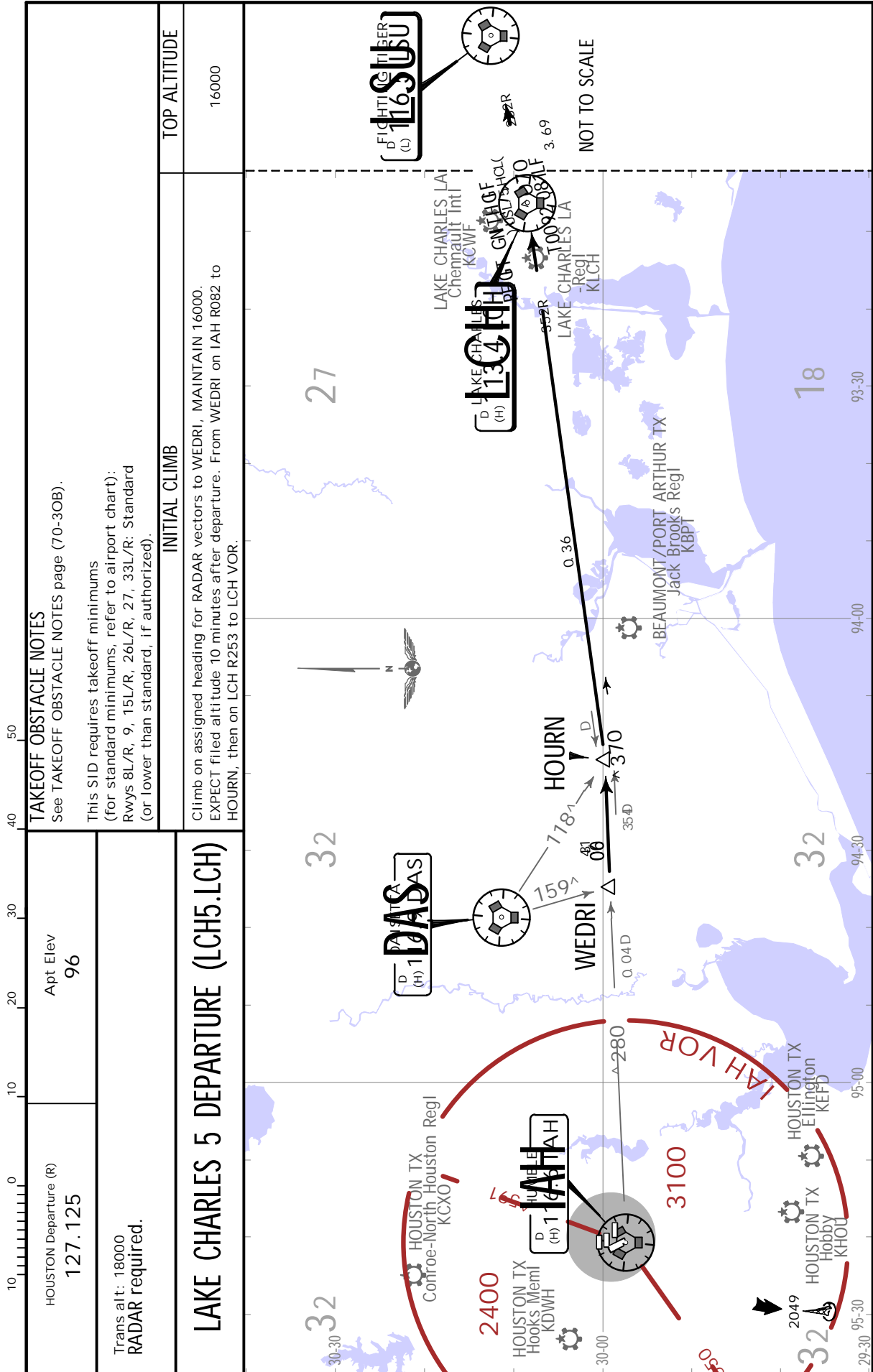
TOP ALTITUDE
16000

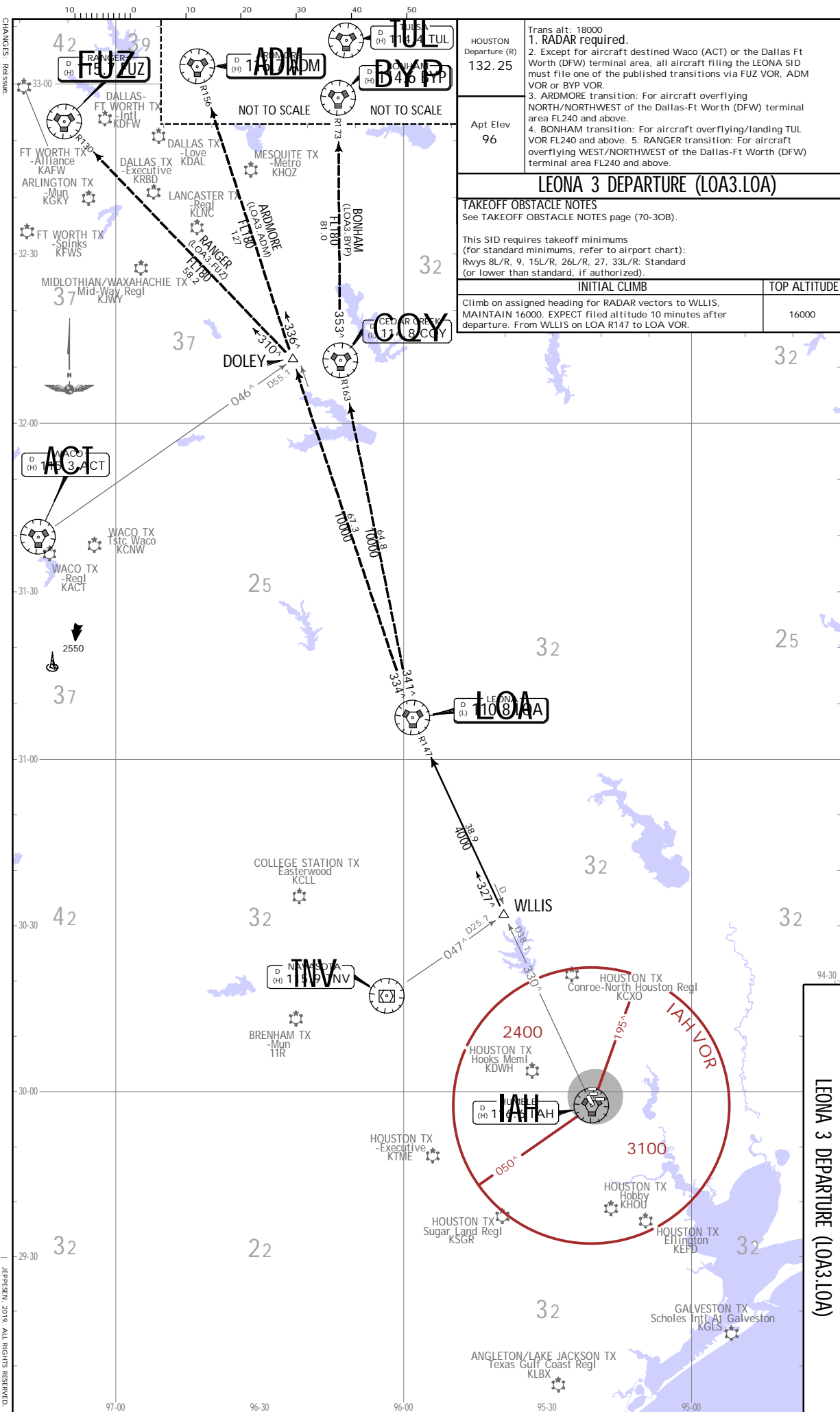


KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

JEPPESSEN
 70-3M 12 JUL 19

HOUSTON, TEXAS
 .SID.





KIAH/IAH
GEORGE BUSH
INTERCONTINENTAL/HOUSTON
JEPPesen HOUSTON, TEXAS
SID
(70-31N) 15 NOV 19

KIAH/IAH

 **JEPPESEN**
4 JUL 14 (70-30B)

HOUSTON, TEXAS
GEORGE BUSH
INTERCONTINENTAL/HOUSTON

TAKEOFF OBSTACLE NOTES

◦ RWY 8L:

TREE 2866' FROM DER, 921' LEFT OF CENTERLINE, 107' AGL/201' MSL. MULTIPLE TREES BEGINNING 2750' FROM DER, 106' RIGHT OF CENTERLINE, UP TO 80' AGL/174' MSL.

◦ RWY 15L:

MULTIPLE TREES BEGINNING 2638' FROM DER, 758' RIGHT OF CENTERLINE, UP TO 76' AGL/160' MSL.

◦ RWY 15R:

TOWER 1431' FROM DER, 591' LEFT OF CENTERLINE, 48' AGL/133' MSL. ANTENNA ON GLIDESLOPE 1469' FROM DER, 621' LEFT OF CENTERLINE, 49' AGL/133' MSL.

◦ RWY 26R:

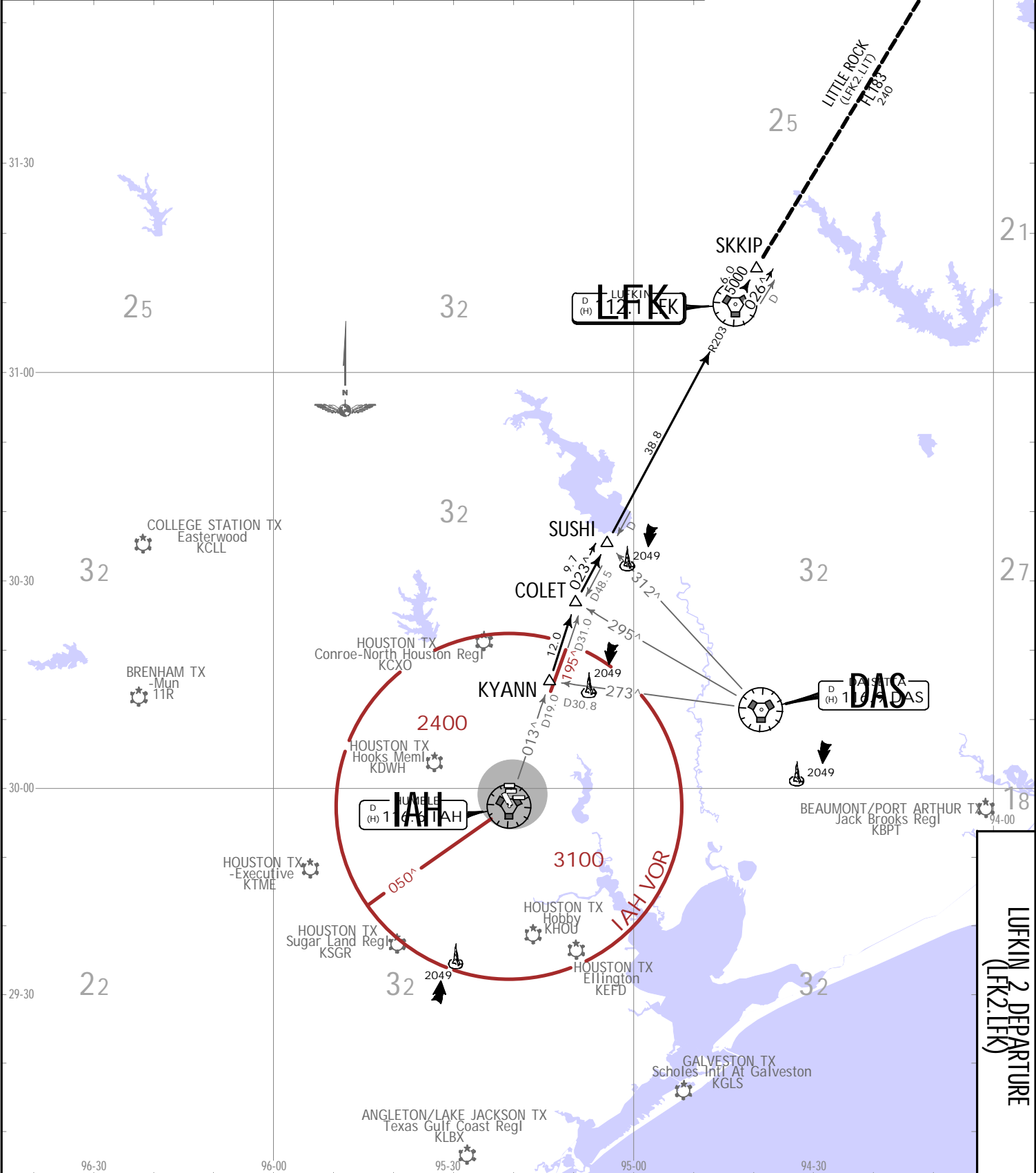
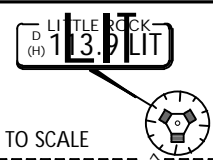
POLE 950' FROM DER, 660' RIGHT OF CENTERLINE, 40' AGL/129' MSL.

◦ RWY 33R:

TREE 2868' FROM DER, 1027' RIGHT OF CENTERLINE, 73' AGL/172' MSL.

CHANGES: Reissue:

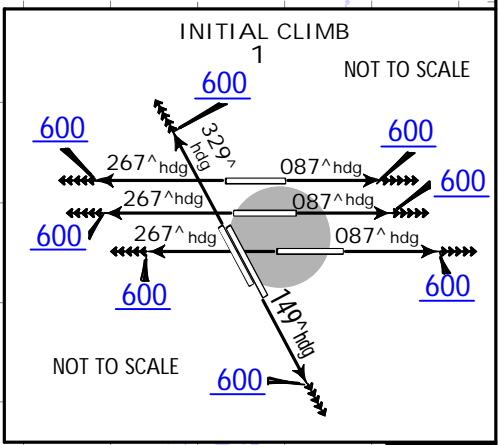
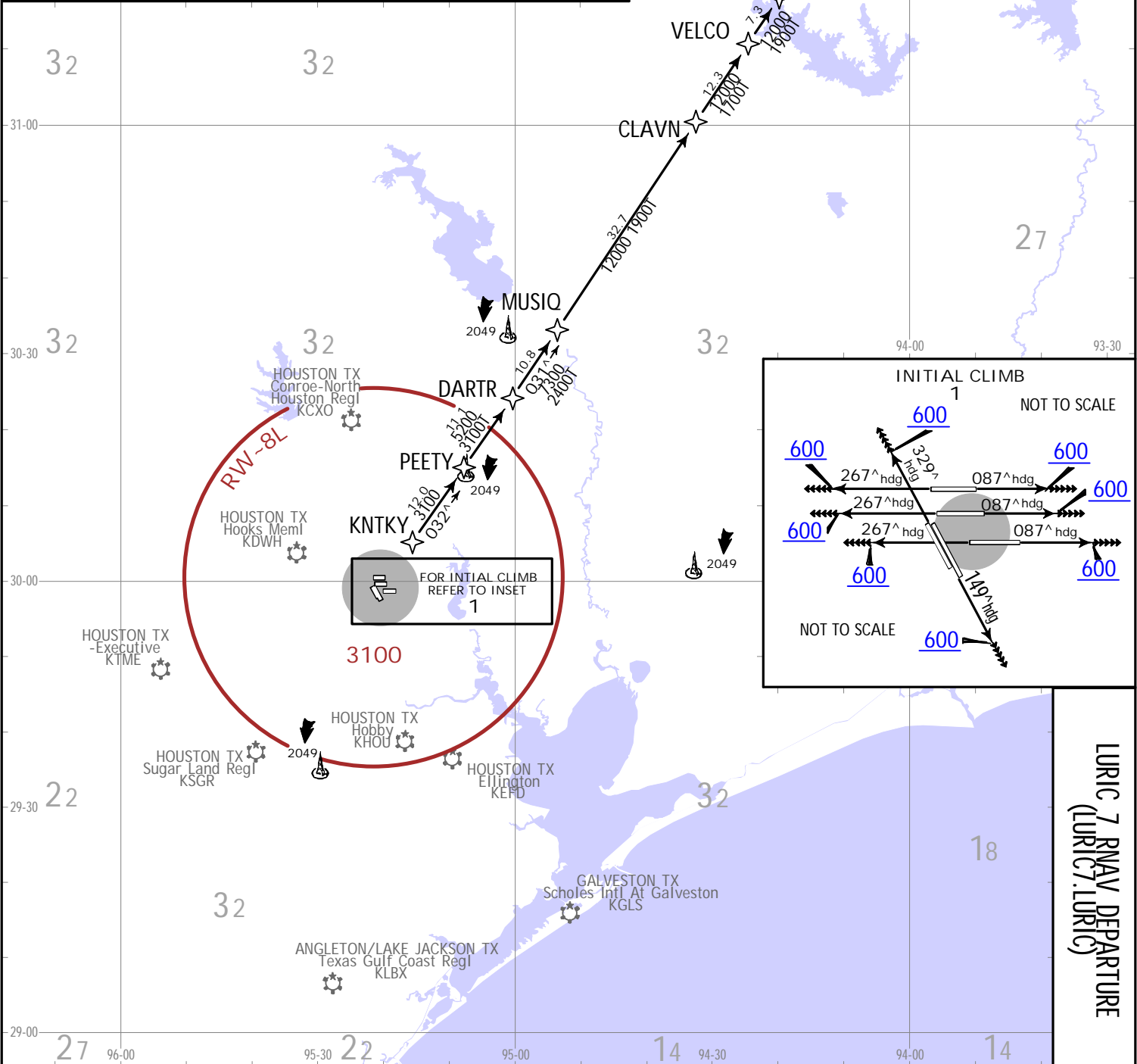
HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR and DME required. 2. For aircraft destined LIT, or overflying LIT or PXV.
LUFKIN 2 DEPARTURE (LFK2.LFK)		
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized).		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-3OB).
INITIAL CLIMB		TOP ALTITUDE
Climb on assigned heading for RADAR vectors to KYANN, MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. From KYANN on IAH R013 to COLET, then RIGHT turn on LFK R203 to LFK VOR.		16000



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON
 HOUSTON, TEXAS
 SID
 JEPPESSEN
 (70-3P) 15 NOV 19
 LUFKIN 2 DEPARTURE
 (LFK2.LFK)

CHANGES: Rel issue.

HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.														
LURIC 7 RNAV DEPARTURE (LURIC7.LURIC)																
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwy 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B).														
<table border="1"> <tr> <th>Gnd speed-KT</th> <th>75</th> <th>100</th> <th>150</th> <th>200</th> <th>250</th> <th>300</th> </tr> <tr> <td>500 per NM</td> <td>625</td> <td>833</td> <td>1250</td> <td>1667</td> <td>2083</td> <td>2500</td> </tr> </table>	Gnd speed-KT	75	100	150	200	250	300	500 per NM	625	833	1250	1667	2083	2500		
Gnd speed-KT	75	100	150	200	250	300										
500 per NM	625	833	1250	1667	2083	2500										
<table border="1"> <tr> <th>RWY</th> <th>INITIAL CLIMB</th> <th>TOP ALTITUDE</th> </tr> <tr> <td>8L/R, 9</td> <td>Climb heading 087° to 600 for RADAR vectors to KNTKY.</td> <td rowspan="4">16000</td> </tr> <tr> <td>15L/R</td> <td>Climb heading 149° to 600 for RADAR vectors to KNTKY.</td> </tr> <tr> <td>26L/R, 27</td> <td>Climb heading 267° to 600 for RADAR vectors to KNTKY.</td> </tr> <tr> <td>33L/R</td> <td>Climb heading 329° to 600 for RADAR vectors to KNTKY.</td> </tr> </table>	RWY	INITIAL CLIMB	TOP ALTITUDE	8L/R, 9	Climb heading 087° to 600 for RADAR vectors to KNTKY.	16000	15L/R	Climb heading 149° to 600 for RADAR vectors to KNTKY.	26L/R, 27	Climb heading 267° to 600 for RADAR vectors to KNTKY.	33L/R	Climb heading 329° to 600 for RADAR vectors to KNTKY.				
RWY	INITIAL CLIMB	TOP ALTITUDE														
8L/R, 9	Climb heading 087° to 600 for RADAR vectors to KNTKY.	16000														
15L/R	Climb heading 149° to 600 for RADAR vectors to KNTKY.															
26L/R, 27	Climb heading 267° to 600 for RADAR vectors to KNTKY.															
33L/R	Climb heading 329° to 600 for RADAR vectors to KNTKY.															
ROUTING																
From KNTKY on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on transition. MAINTAIN 16000 or as assigned by ATC. EXPECT filed altitude 10 minutes after departure.																



KIAH/IAH
GEORGE BUSH
INTERCONTINENTAL/HOUSTON

JEPPesen HOUSTON, TEXAS
RNAV.SID
15 NOV 19 (70-30)

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 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

HOUSTON, TEXAS
 .RNAV.SID.

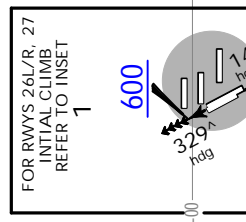
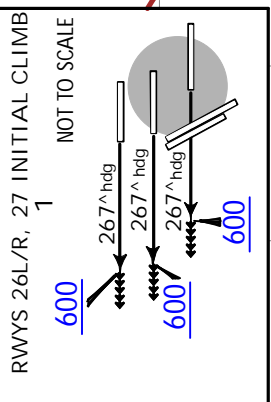
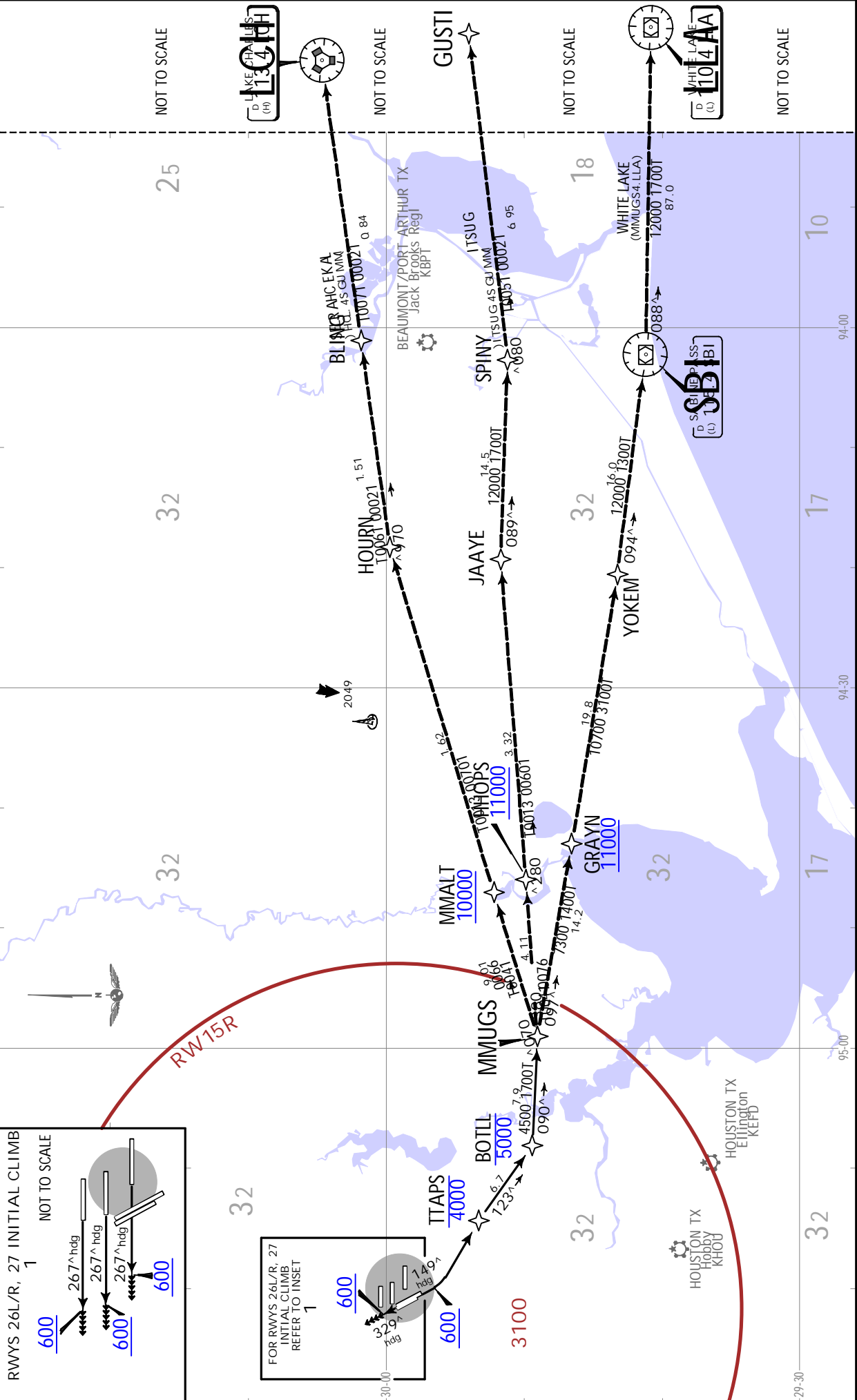
JEPPesen
 (70-3S) 15 NOV 19

RWY	INITIAL CLIMB	TOP ALTITUDE	HOUSTON Departure (R)	Apt Elev
15L/R	Climb heading 149° to 600, then LEFT turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000.	16000	127.125	96
26L/R, 27	Climb heading 267° to 600. EXPECT RADAR vectors to cross BOTLL at or below 5000.			
33L/R	Climb heading 329° to 600. EXPECT RADAR vectors to cross BOTLL at or below 5000.			
ROUTING				
From BOTLL on track 090° to MMUGS, then on transition. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure.				

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
 Rwy 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 1200.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (70-30B).



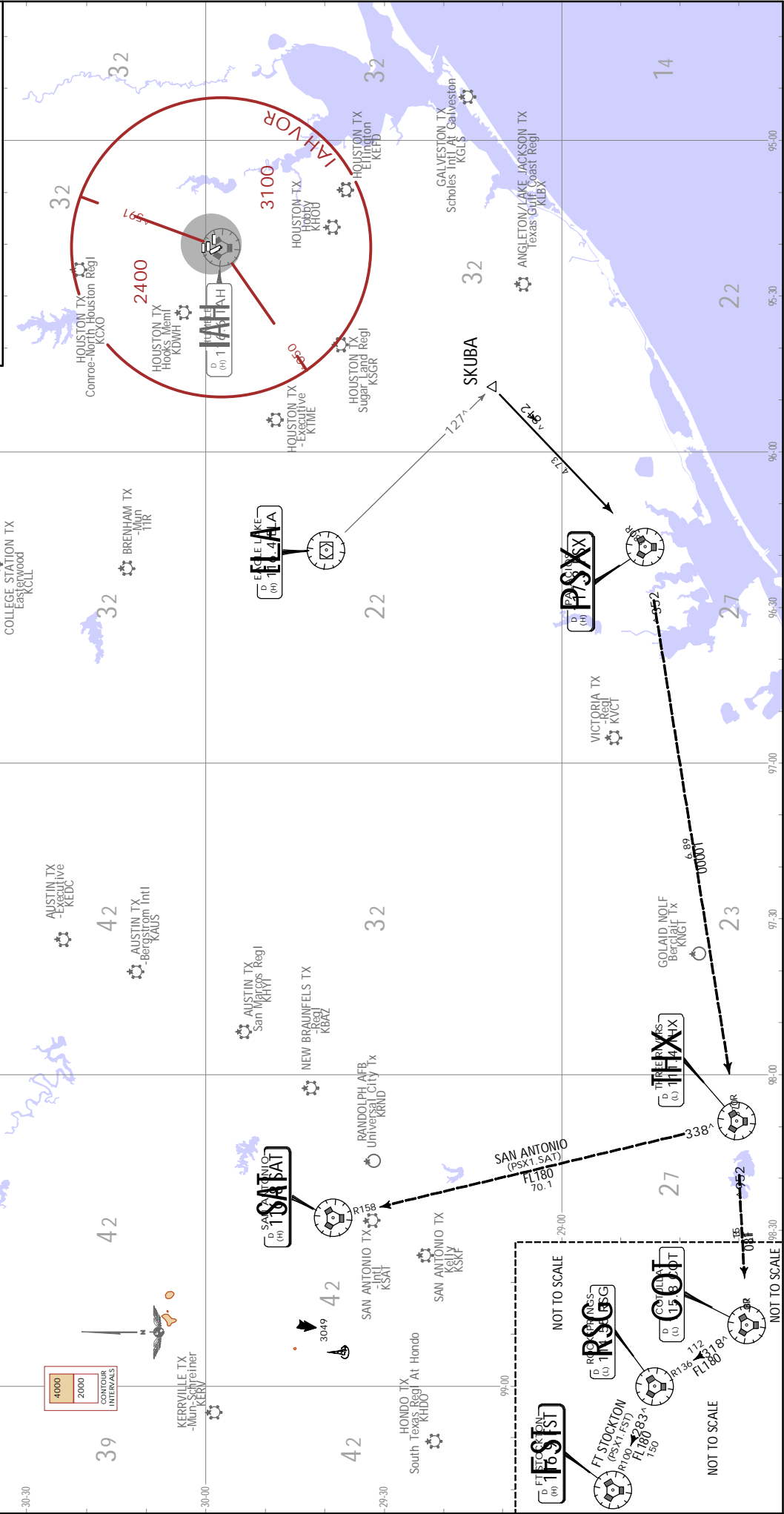
KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

JEPESEN HOUSTON, TEXAS
 20 MAR 20
 (70-3T) Eff. 26 Mar.
 .SID.

HOUSTON Departure (R) 127.125	Apt Elev 96	Trans alt: 18000
RADAR required.		
PALACIOS 1 DEPARTURE (PSX1.PSX)		

TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B). This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwy 8L/R: 9, 15L/R: 26L/R: 27, 33L/R: Standard (or lower than standard, if authorized).	TOP ALTITUDE 16000
INITIAL CLIMB Climb on assigned heading for RADAR vectors to SKUBA. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure. At SKUBA on PSX R088 to PSX VOR.	

CONTOUR INTERVALS 4000 2000	NOT TO SCALE NOT TO SCALE
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HOUSTON Departure (R)
126.675

Apt Elev
96

Trans alt: 18000
1. RADAR required.
2. RNAV 1.
3. DME/DME/IRU or GPS required.
4. For use during EAST flow at George Bush Intercontinental/Houston, for WEST flow file the BNDTO RNAV Departure.

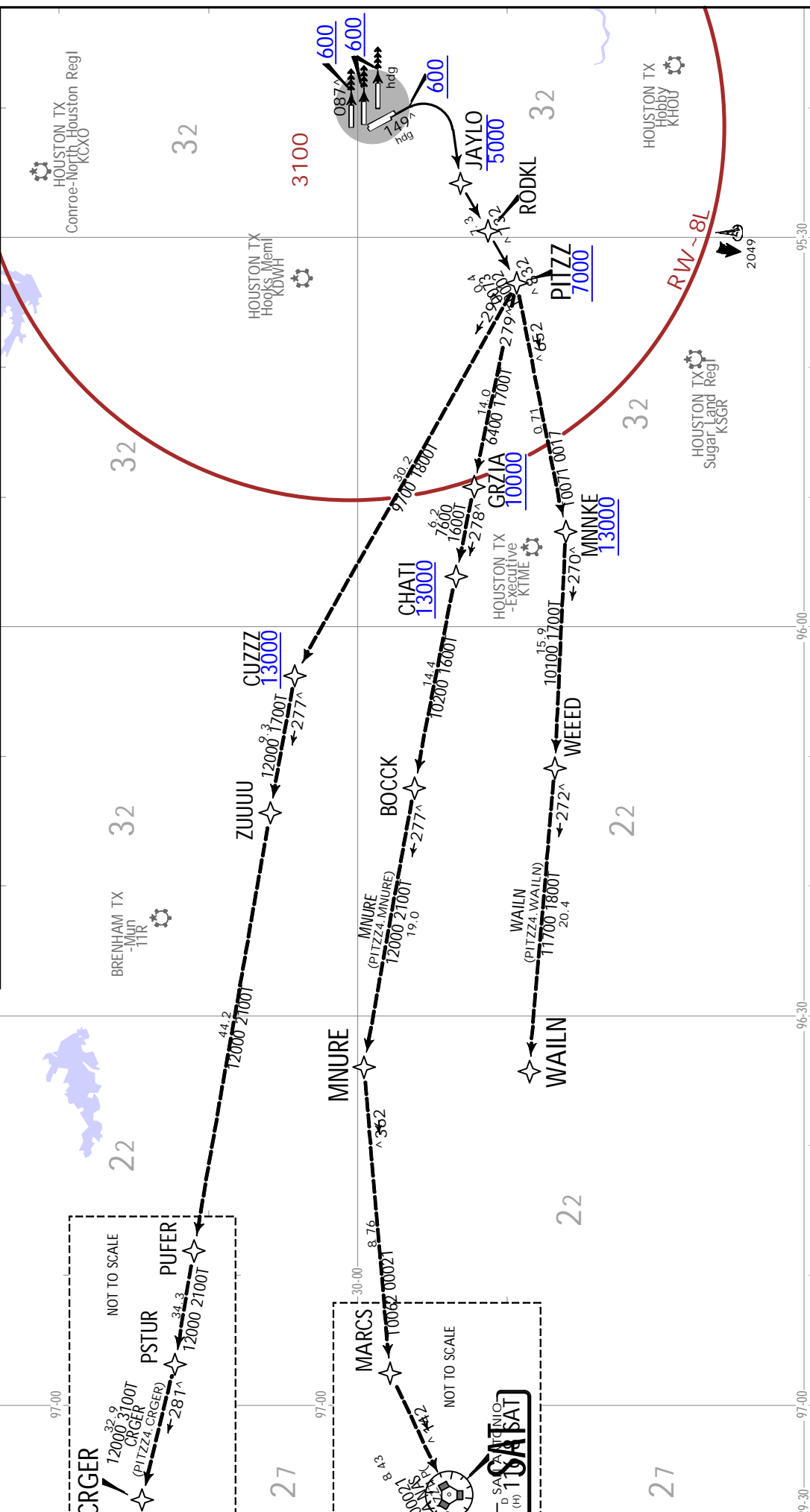
PITZZ 4 RNAV DEPARTURE (PITZZ4.PITZZ)

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (70-30B).
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
Rwy 8L/R, 9, 15L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 1500.

INITIAL CLIMB		TOP ALTITUDE	
RWY	INITIAL CLIMB	TOP ALTITUDE	
8L/R, 9	Climb heading 087° to 600. EXPECT RADAR vectors to RODKL.	16000	
15L/R	Climb heading 149° to 600, then RIGHT turn direct to cross JAYLO at or below 5000, then on track 237° to RODKL.		

ROUTING
From RODKL on track 238° to cross PITZZ at or above 7000, then on transition. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure.

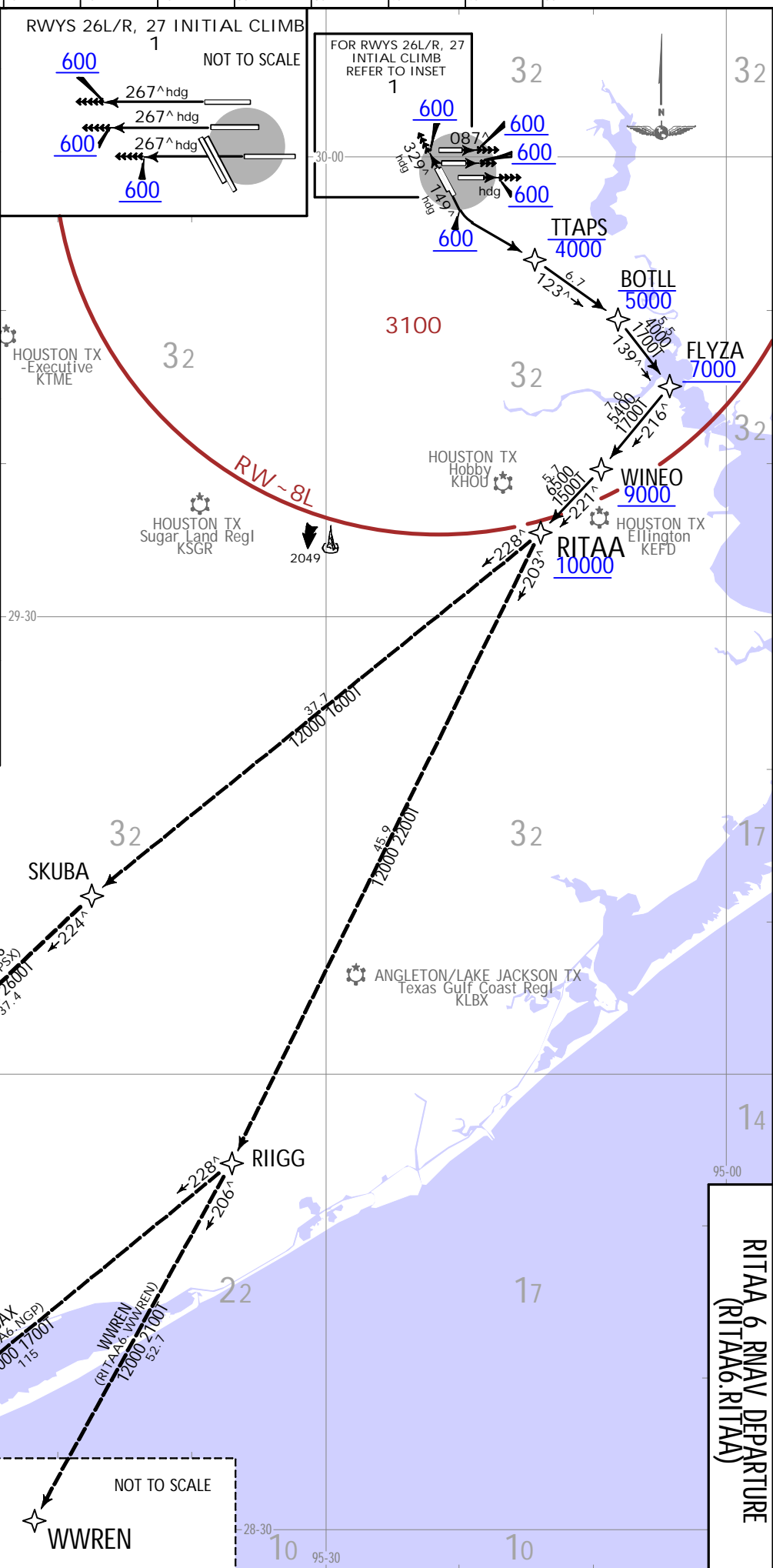
INITIAL CLIMB
8L/R, 9 Climb heading 087° to 600. EXPECT RADAR vectors to RODKL.
15L/R Climb heading 149° to 600, then RIGHT turn direct to cross JAYLO at or below 5000, then on track 237° to RODKL.



CHANGES: Procedure renumbered, NGR VORT AC now TACAN

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HOUSTON Departure (R) 127.125	Apt Elev 96														
RWYS 26L/R, 27 INITIAL CLIMB 1 NOT TO SCALE															
Trans alt: 18000 1. RADAR required. 2. RNAV 1. 3. DME/DME/IRU or GPS required.															
RITAA 6 RNAV DEPARTURE (RITAA6.RITAA)															
TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B).															
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 800.															
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Gnd speed-KT</td> <td style="padding: 2px;">75</td> <td style="padding: 2px;">100</td> <td style="padding: 2px;">150</td> <td style="padding: 2px;">200</td> <td style="padding: 2px;">250</td> <td style="padding: 2px;">300</td> </tr> <tr> <td style="padding: 2px;">500 per NM</td> <td style="padding: 2px;">625</td> <td style="padding: 2px;">833</td> <td style="padding: 2px;">1250</td> <td style="padding: 2px;">1667</td> <td style="padding: 2px;">2083</td> <td style="padding: 2px;">2500</td> </tr> </table>		Gnd speed-KT	75	100	150	200	250	300	500 per NM	625	833	1250	1667	2083	2500
Gnd speed-KT	75	100	150	200	250	300									
500 per NM	625	833	1250	1667	2083	2500									
RWY	INITIAL CLIMB	TOP ALTITUDE													
8L/R, 9	Climb on heading 087° to 600, for RADAR vectors to cross BOTLL at or below 5000.	16000													
15L/R	Climb on heading 149° to 600, then LEFT turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000.	16000													
26L/R, 27	Climb on heading 267° to 600, for RADAR vectors to cross BOTLL at or below 5000.	16000													
33L/R	Climb on heading 329° to 600, for RADAR vectors to cross BOTLL at or below 5000.	16000													
ROUTING															
From BOTLL on track 139° to cross FLYZA at or above 7000, then on track 216° to cross WINEO at or above 9000, then on track 221° to cross RITAA at or above 10000, then on transition. MAINTAIN 16000. EXPECT filed altitude 10 minutes after departure.															



NOT TO SCALE

D
(H)

PSX

NOT TO SCALE

D
(H)

CRP

NOT TO SCALE

D
(L)

NGP

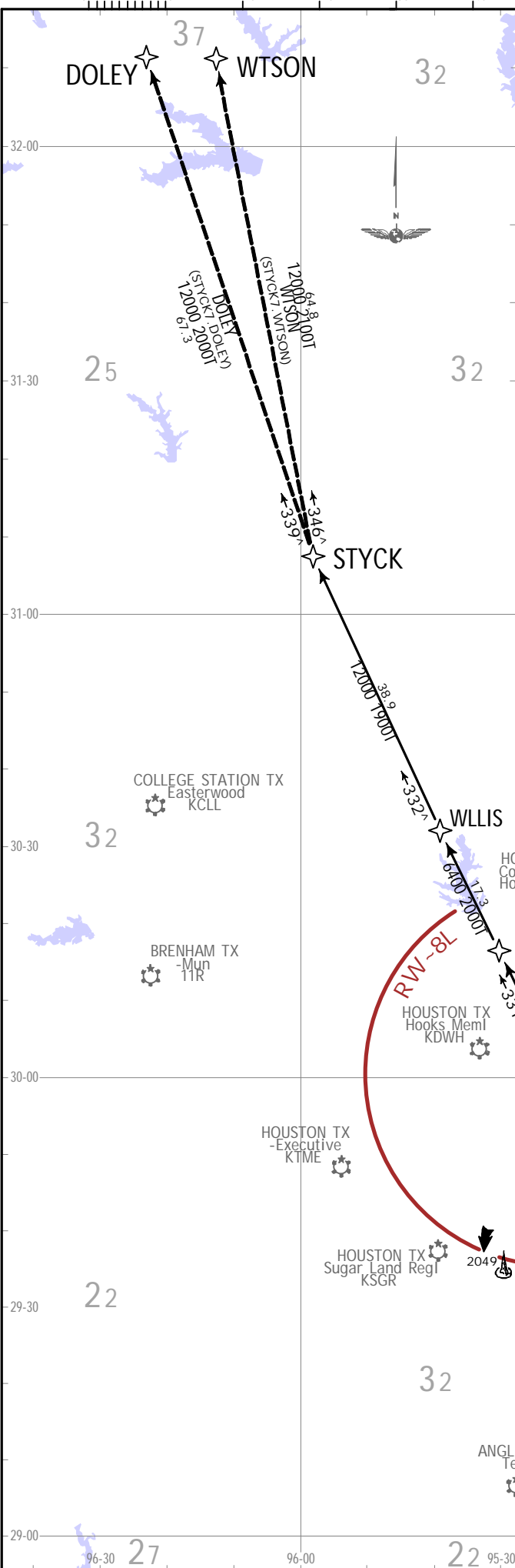
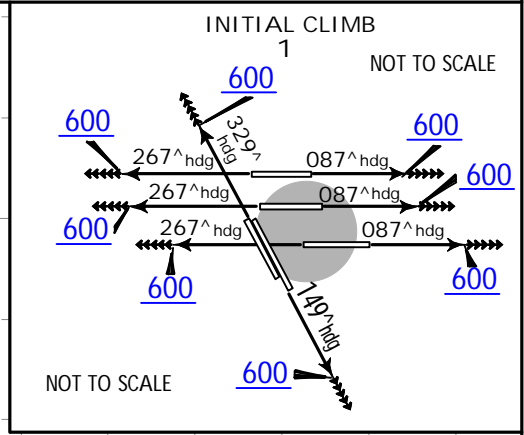
NOT TO SCALE

JEPPesen HOUSTON, TEXAS
 RNAV SID
 29 NOV 19 (70-3V). Eff. 5 Dec.

JEPPesen, 2019. ALL RIGHTS RESERVED.

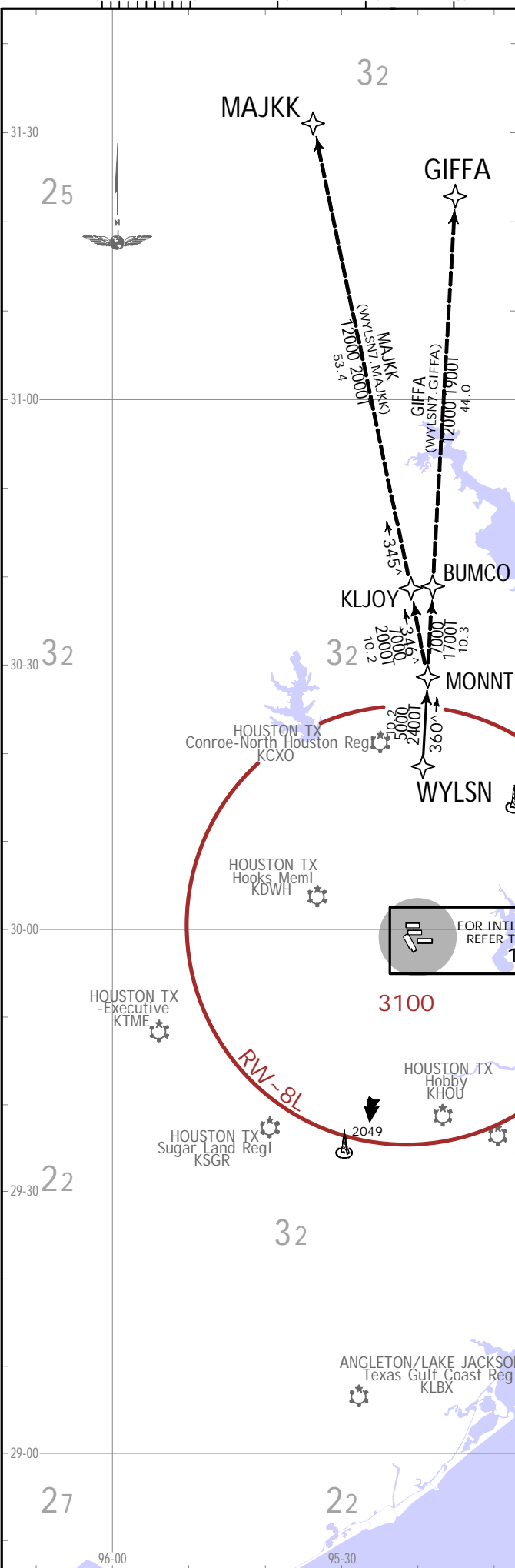
KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON

HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.				
STYCK 7 RNAV DEPARTURE (STYCK7.STYCK)						
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B).				
Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
RWY	INITIAL CLIMB					TOP ALTITUDE
8L/R, 9	Climb heading 087° to 600 for RADAR vectors to BBYSE.					16000
15L/R	Climb heading 149° to 600 for RADAR vectors to BBYSE.					
26L/R, 27	Climb heading 267° to 600 for RADAR vectors to BBYSE.					
33L/R	Climb heading 329° to 600 for RADAR vectors to BBYSE.					
ROUTING						
From BBYSE on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on transition. MAINTAIN 16000 or as assigned by ATC. EXPECT filed altitude 10 minutes after departure.						

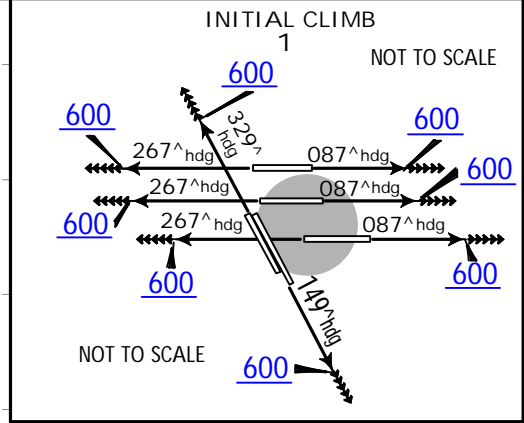


STYCK 7 RNAV DEPARTURE (STYCK7.STYCK)
 29 NOV 19 (70-3X)
 JEPPESEN HOUSTON, TEXAS
 RNAV.SID

CHANGES: Rel issue:



HOUSTON Departure (R) 132.25	Apt Elev 96	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.														
WYLSN 7 RNAV DEPARTURE (WYLSN7.WYLSN)																
This SID requires takeoff minimums (for standard minimums, refer to airport chart): Rwy 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.		TAKEOFF OBSTACLE NOTES See TAKEOFF OBSTACLE NOTES page (70-30B).														
<table border="1"> <tr> <th>Gnd speed-KT</th> <td>75</td> <td>100</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <th>500 per NM</th> <td>625</td> <td>833</td> <td>1250</td> <td>1667</td> <td>2083</td> <td>2500</td> </tr> </table>	Gnd speed-KT	75	100	150	200	250	300	500 per NM	625	833	1250	1667	2083	2500		
Gnd speed-KT	75	100	150	200	250	300										
500 per NM	625	833	1250	1667	2083	2500										
<table border="1"> <thead> <tr> <th>RWY</th> <th>INITIAL CLIMB</th> <th>TOP ALTITUDE</th> </tr> </thead> <tbody> <tr> <td>8L/R, 9</td> <td>Climb heading 087° to 600 for RADAR vectors to WYLSN.</td> <td rowspan="4">16000</td> </tr> <tr> <td>15L/R</td> <td>Climb heading 149° to 600 for RADAR vectors to WYLSN.</td> </tr> <tr> <td>26L/R, 27</td> <td>Climb heading 267° to 600 for RADAR vectors to WYLSN.</td> </tr> <tr> <td>33L/R</td> <td>Climb heading 329° to 600 for RADAR vectors to WYLSN.</td> </tr> </tbody> </table>	RWY	INITIAL CLIMB	TOP ALTITUDE	8L/R, 9	Climb heading 087° to 600 for RADAR vectors to WYLSN.	16000	15L/R	Climb heading 149° to 600 for RADAR vectors to WYLSN.	26L/R, 27	Climb heading 267° to 600 for RADAR vectors to WYLSN.	33L/R	Climb heading 329° to 600 for RADAR vectors to WYLSN.				
RWY	INITIAL CLIMB	TOP ALTITUDE														
8L/R, 9	Climb heading 087° to 600 for RADAR vectors to WYLSN.	16000														
15L/R	Climb heading 149° to 600 for RADAR vectors to WYLSN.															
26L/R, 27	Climb heading 267° to 600 for RADAR vectors to WYLSN.															
33L/R	Climb heading 329° to 600 for RADAR vectors to WYLSN.															
ROUTING																
From WYLSN on track 360° to MONNT, then on transition. MAINTAIN 16000 or as assigned by ATC. EXPECT filed altitude 10 minutes after departure.																



KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON
 JEPPESSEN
 70-3Y 29 NOV 19
 HOUSTON, TEXAS
 RNAV.SID

WYLSN 7 RNAV DEPARTURE
 (WYLSN7.WYLSN)

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HOUSTON, TEXAS

GEORGE BUSH INTERCONTINENTAL/HOUSTON

RAIP CONTROL	HOUSTON Departure (R)			West
	North	East	South	
East	130.825	131.275	121.625	
North	132.25	133.6	127.125	
West	126.675	127.3	122.75	
Rwys 15L/33R 15R/33L	127.3			
Rwy 9/27	135.15			
Rwys 8L/26R 8R/26L, 9/27	118.575			
Rwys 15L/33R 15R/33L	121.7			
Ground Metering	119.95			
HOUSTON Clearance	128.1			
ACARS: D-ATIS D-DATIS D-TWIP	7 AUG 20 70-9			
D-ATIS	124.05			

CAUTION NOTES

CAUTION: Be alert to runway crossing clearances. Readback of all runway holding instructions is required.

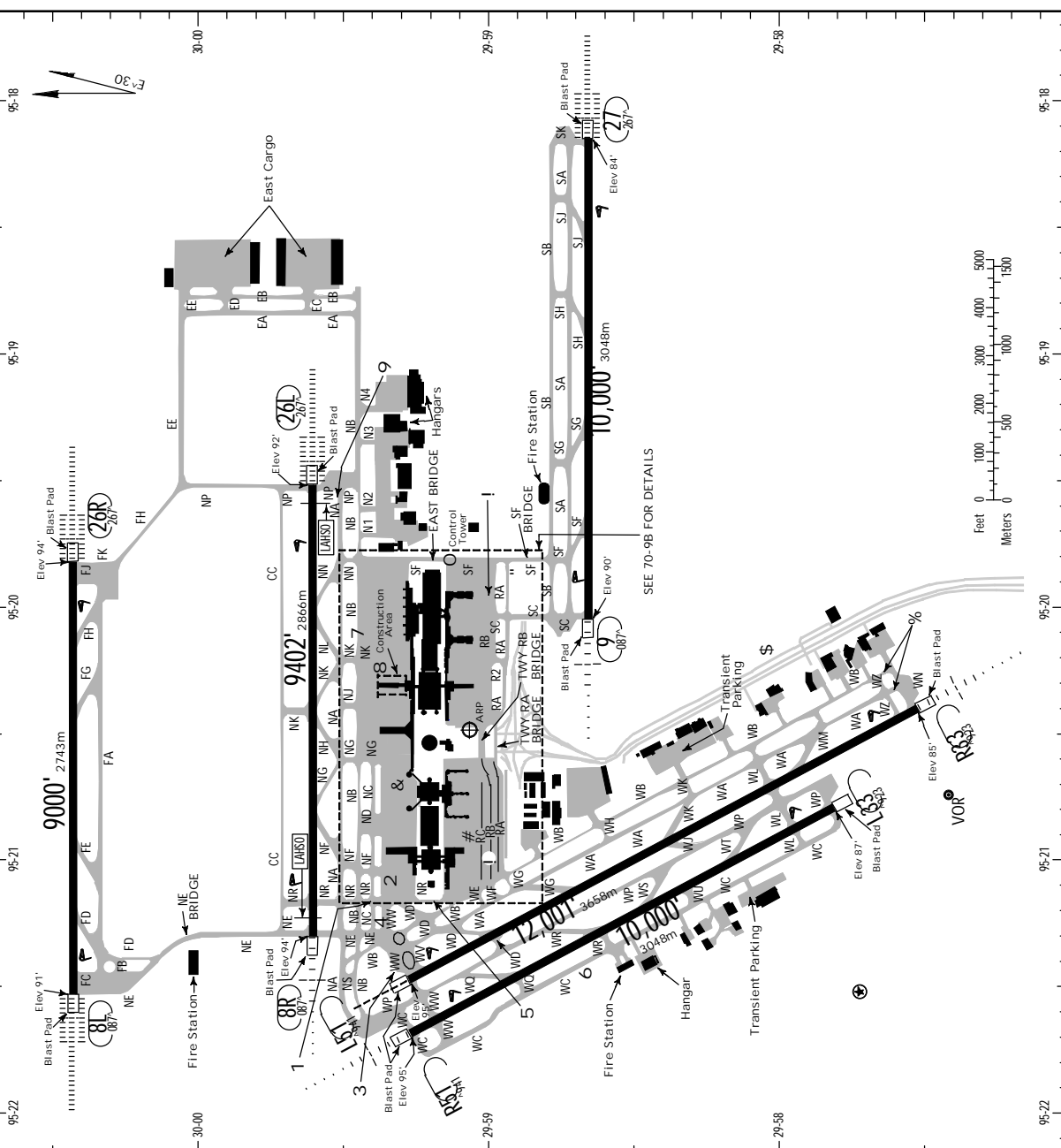
OPERATIONAL NOTES

Rwy 9/27 closed to aircraft with wingspans 215' (66m) and greater.

Rwy 15L/33R magnetic anomalies may affect compass heading for take-off.

The following movement areas are not visible from the tower:
 Portions of Twys WA & WB from Twy WH to the approach end of Rwy 33R. Twys WA & WB from Twy WD north for 400'. Twy WD from Twy WA to Twy NR. Twy WL from Rwy 15L to Twy WB. Twy WM.

- 1 Twy NR between Twy NC and Twy WV closed to aircraft with wingspan more than 214' (65 m).
- 2 North ramp taxi lane between Twys NF & NR closed to aircraft with wingspans greater than 125' (38m).
- 3 Twy WV run up pad for Rwy 15L closed to aircraft with wingspans 135' (41m) and greater.
- 4 Twy WV between Twy NR and Twy WB closed to aircraft with wingspan more than 214' (65m).
- 5 Twy NR closed to aircraft with wingspans greater than 125' (38m) between Twy WD and Twy WB.
- 6 Twy WC west of Rwy 15R/33L is restricted to aircraft with a wingspan of 118' (36m) and below.
- 7 Dual taxiway operations: Twy NK between NB and north ramp. West centerline restricted to aircraft with maximum wingspans of 125' (38m) and east centerline maximum wingspans of 214' (65m).
- 8 Twy NK between Twy NB and Terminal D Ramp simultaneous aircraft operations prohibited when middle taxi lane in use.
- 9 Twy NA lighting all between Twy WP and Twy NP not standard.
- 0 Twy SF between Twy NB and Taxi lane RA is designated a non-movement area.
- ! Taxi lanes RA, RB, RC, R2 and Twy SC North of Twy SB are designated non-movement areas operated by UAL ramp control.
- " Twy SF between Rwy 9/27 up to and including the East Bridge closed to aircraft with wingspan 215' (66m) and greater.
- # Taxi lane RC closed to aircraft with wingspans greater than 135' (41m).
- \$ Expressway lights paralleling Rwy 33R may be mistaken for Rwy lights on Rwy 15L-33R.
- % Twys WA and WB magnetic anomalies may affect compass heading.
- & North ramp north AND south taxi lanes closed to aircraft with wingspans greater than 125' (38m).



CHANGES: Construction area added.

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2 operating RVRs are required All operating RVRs are controlling		Adequate Vis Ref		STD
CL & HIRL	CL, or RCLM & HIRL	3 & 4 Eng		1 & 2 Eng
TDZ RVR 5	TDZ RVR 10	RVR 16 or 1/4		RVR 50 or 1
Mid RVR 5	Mid RVR 10	RVR 24 or 1/2		
Rollout RVR 5	Rollout RVR 10			

TAKE-OFF				
All Rwys				

FOR FILING AS ALTERNATE				
ILS Rwy 8R ILS Rwy 8L ILS Rwy 9 ILS Rwy 15R ILS Rwy 26L ILS Rwy 26R ILS Rwy 33R	LOC Rwy 8R LOC Rwy 8L LOC Rwy 9 LOC Rwy 15R LOC Rwy 26L LOC Rwy 26R LOC Rwy 33R	RNAV (GPS) Z Rwy 8L RNAV (GPS) Z Rwy 8R RNAV (GPS) Z Rwy 9 RNAV (GPS) Rwy 15R RNAV (GPS) Z Rwy 26L RNAV (GPS) Z Rwy 26R RNAV (GPS) Z Rwy 27	RNAV (GPS) Rwy 33R RNAV (RNP) Y Rwy 8L RNAV (RNP) Y Rwy 8R RNAV (RNP) Y Rwy 9 RNAV (RNP) Y Rwy 15R RNAV (RNP) Y Rwy 26L RNAV (RNP) Y Rwy 26R RNAV (RNP) Y Rwy 27	Authorized Only When Local Weather Available. LOC Rwy 27 ILS Rwy 27
A	600-2	800-2	600-2	800-2
B				
C				
D				

GENERAL
 Birds in vicinity of airport.
 Terminal Doppler Weather Radar.
 ASDE-X in use. Operate transponder with altitude reporting mode and ADS-B (if equipped) enabled while on all airport surfaces.
 Runway Status Lights are in operation.
 9' AGL unmarked security fence adjacent to FBO and corporate base operator ramps and nonmovement area taxiilines.
 Helicopter hover/taxi restricted to hard surface movement areas only.
 Pilots and crews should be aware of departure turns on course in excess of 180°. Pilot read back of direction of turn is highly encouraged.

RWY	HIRL CL ALSF-II TDZ	grooved RVR	ADDITIONAL RUNWAY INFORMATION			LAHSO Distance	TAKE-OFF	WIDTH
			Threshold	Glide Slope	USABLE LENGTHS BEYOND			
8L	HIRL CL ALSF-II TDZ	grooved RVR	7860' 2396m	7860' 2396m			150' 46m	
8R	HIRL CL MALSR TDZ	1 PAPI-L, grooved RVR	8362' 2549m			Twy NP 9019' 2749m	150' 46m	
26L	HIRL CL ALSF-II TDZ	1 PAPI-R, grooved RVR	8360' 2548m			Twy NE 9010' 2746m		
9	HIRL CL MALSR	1 PAPI-R, grooved RVR	8935' 2723m				150' 46m	
	HIRL CL ALSF-II TDZ	1 PAPI-L, grooved RVR	8965' 2733m					
15L	HIRL CL	1 PAPI-R, grooved RVR					150' 46m	
33R	HIRL CL MALSR	grooved RVR	10,970' 3344m					
15R	HIRL CL MALSR TDZ	1 PAPI-L, grooved RVR	8874' 2705m				150' 46m	
33L	HIRL CL TDZ	1 PAPI-R, grooved RVR						

1 Angle 3.0°

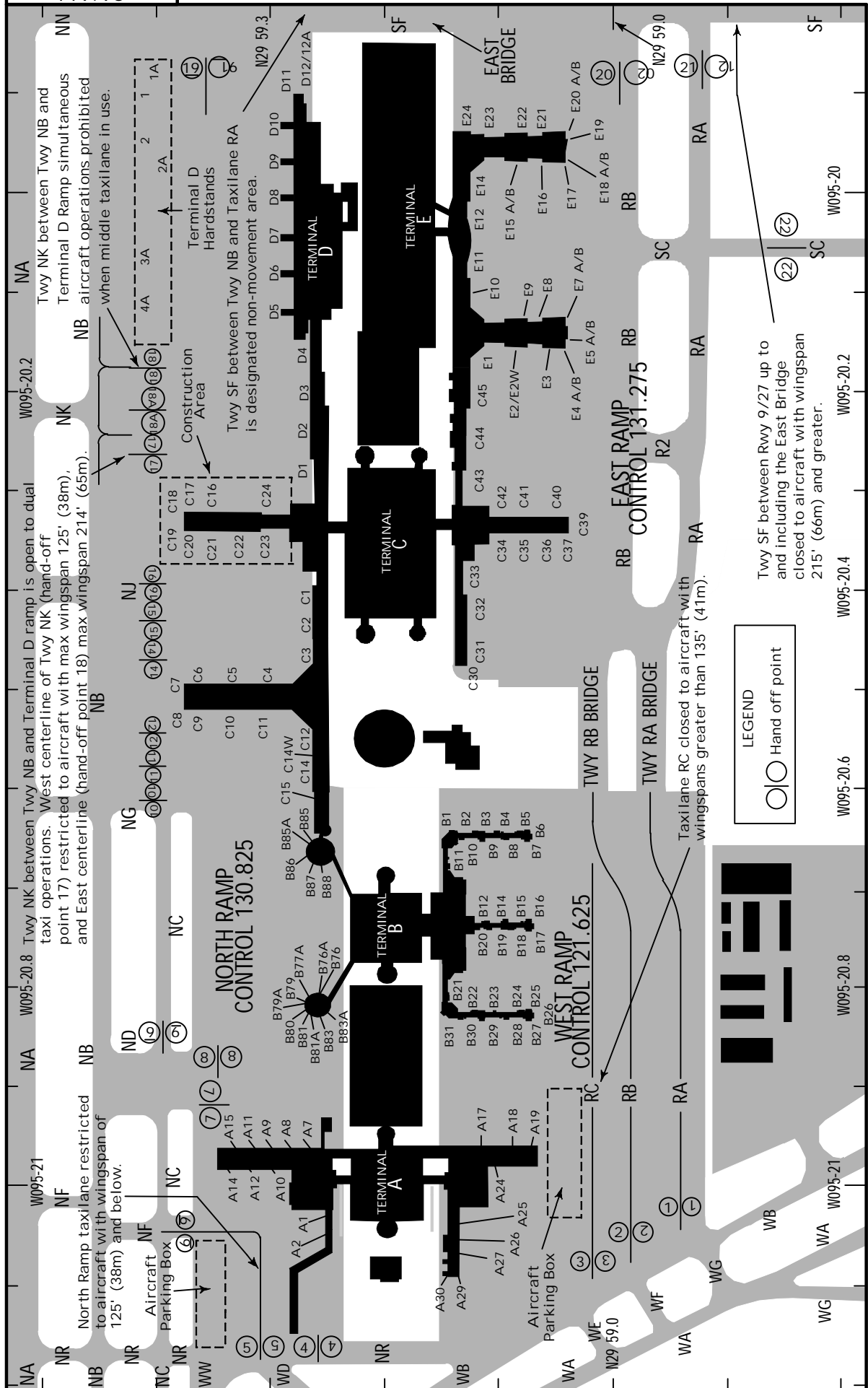
KIAH/IAH

7 AUG 20 **70-9B**

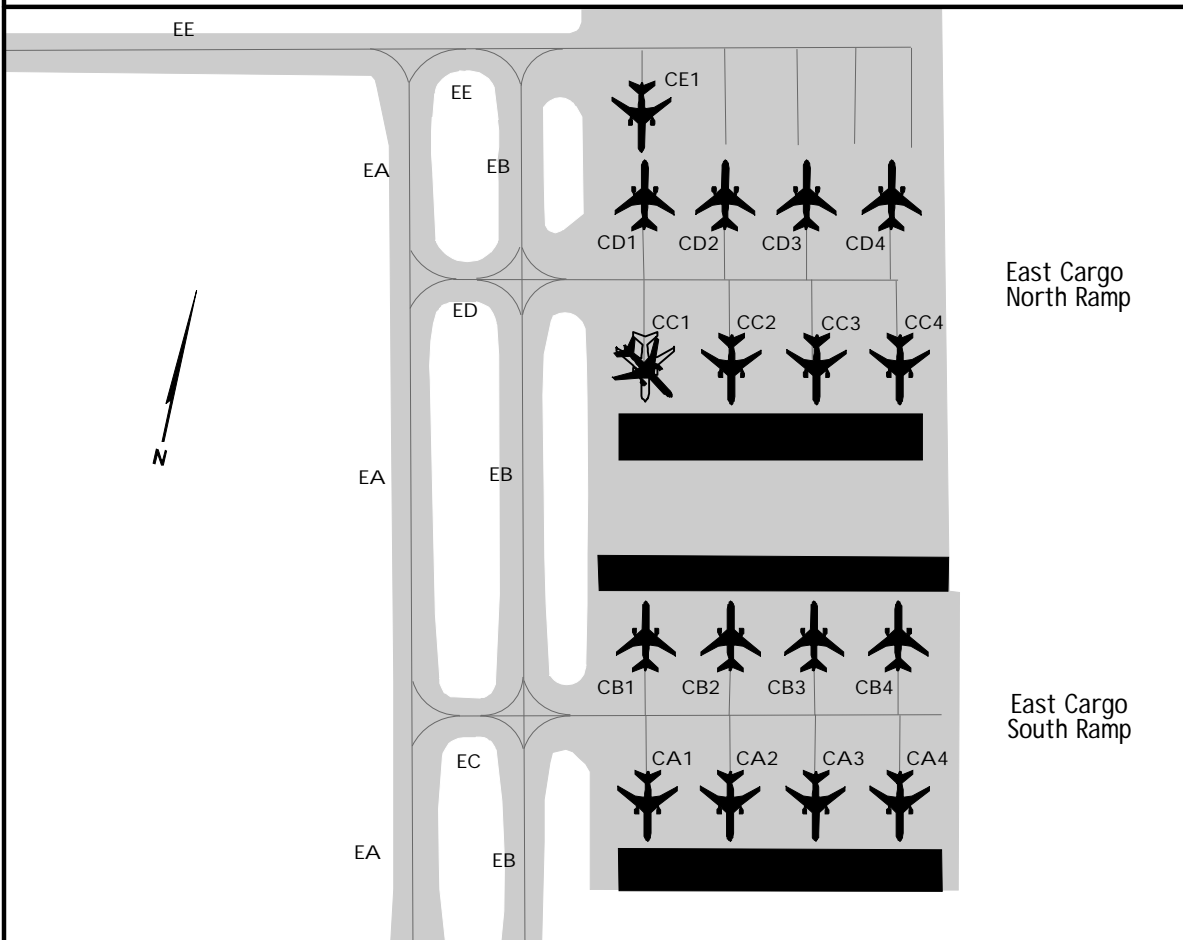
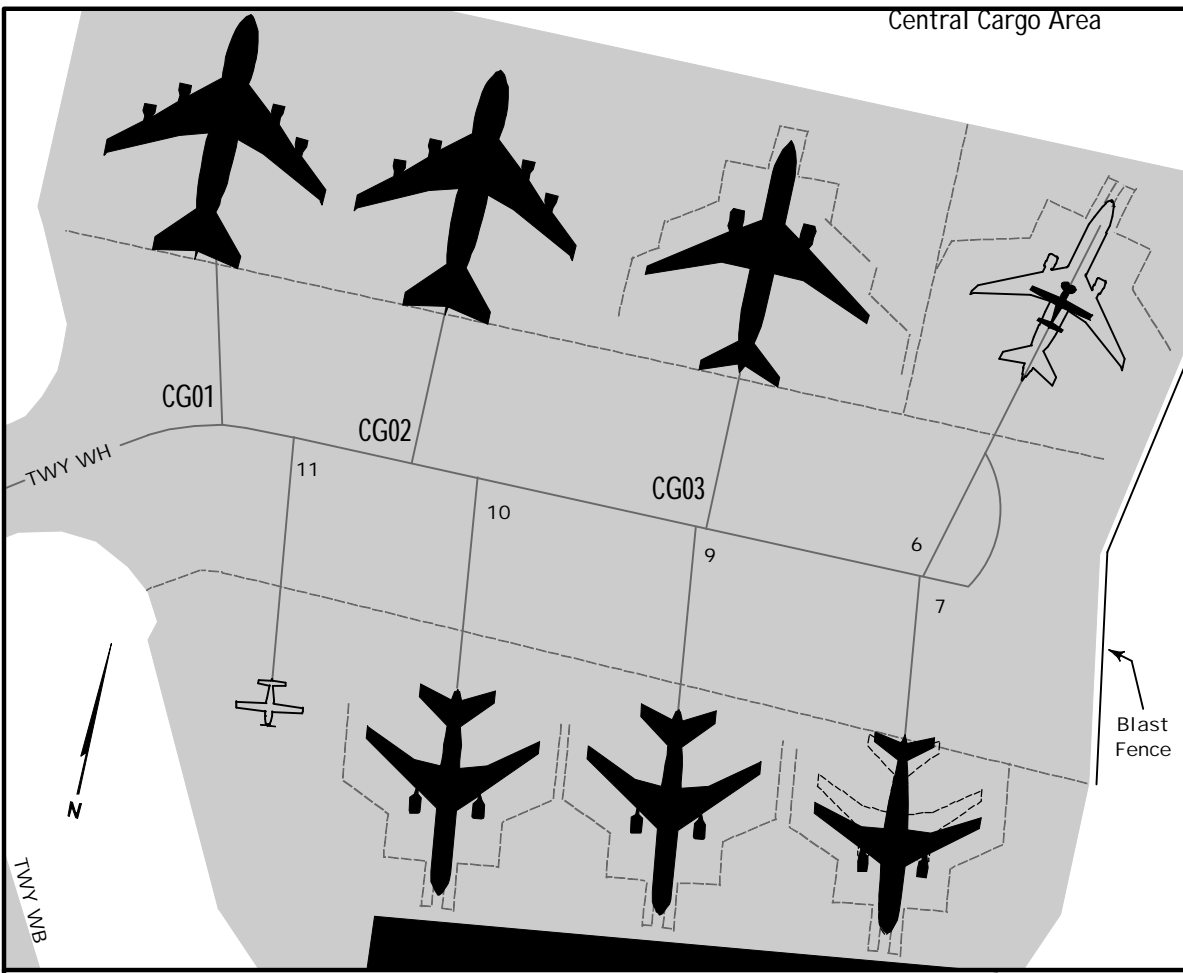
HOUSTON, TEXAS

GEORGE BUSH INTERCONTINENTAL/HOUSTON

Ground Metering
119.95



LEGEND
 Hand off point



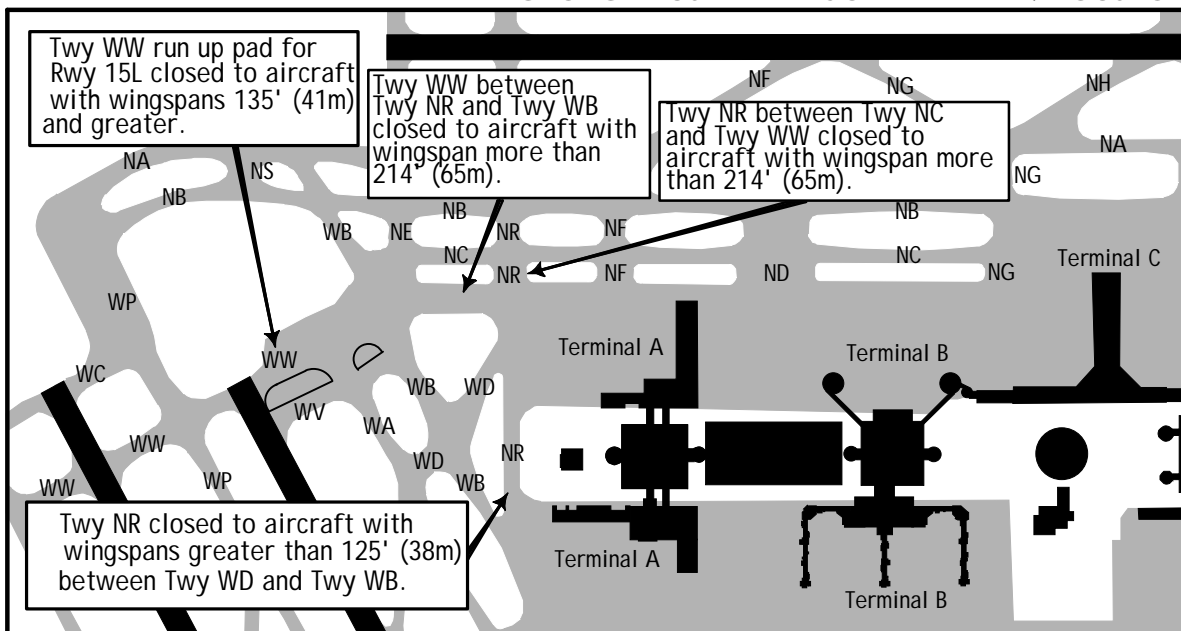
KIAH/IAH

JEPPesen

HOUSTON, TEXAS

7 AUG 20 (70-9C)

GEORGE BUSH INTERCONTINENTAL/HOUSTON



PARKING GATE COORDINATES

GATE	COORDINATES	GATE	COORDINATES
TERMINAL A		TERMINAL D (INTERNATIONAL)	
1	N29 59.3 W095 21.0	1	N29 59.3 W095 20.3
2	N29 59.3 W095 21.1	2 thru 4	N29 59.3 W095 20.2
7 thru 12, 14, 15	N29 59.3 W095 21.0	5, 6	N29 59.3 W095 20.1
17 thru 19, 24, 25	N29 59.1 W095 21.0	7 thru 9	N29 59.3 W095 20.0
26, 27, 29, 30	N29 59.1 W095 21.1	10 thru 12, 12A	N29 59.3 W095 19.9
TERMINAL B		TERMINAL D HARDSTANDS	
1 thru 6	N29 59.1 W095 20.6	1, 1A, 2	N29 59.4 W095 19.9
7 thru 12	N29 59.1 W095 20.7	2A	N29 59.4 W095 20.0
14 thru 20	N29 59.1 W095 20.7	3A, 4A	N29 59.4 W095 20.1
21 thru 31	N29 59.1 W095 20.8	TERMINAL E	
76	N29 59.2 W095 20.8	1, 2 A/B, 3	N29 59.1 W095 20.2
76A, 77A	N29 59.3 W095 20.8	4 A/B	N29 59.0 W095 20.2
79, 79A	N29 59.3 W095 20.8	5 A/B, 6, 7 A/B	N29 59.0 W095 20.1
80, 81, 81A, 83	N29 59.3 W095 20.8	8, 9, 10 A/B, 11	N29 59.1 W095 20.1
83A	N29 59.2 W095 20.8	12, 14, 15 A/B, 16	N29 59.1 W095 20.0
85, 85A	N29 59.3 W095 20.6	17, 18 A/B	N29 59.0 W095 20.0
86, 86A, 87, 88	N29 59.3 W095 20.7	19, 20 A/B	N29 59.0 W095 19.9
TERMINAL C		21 thru 24	N29 59.1 W095 19.9
1, 2	N29 59.3 W095 20.4		
3 thru 5	N29 59.3 W095 20.5		
6 thru 9	N29 59.4 W095 20.5		
10, 11	N29 59.3 W095 20.5		
12 thru 15	N29 59.3 W095 20.6		
16 thru 21	N29 59.4 W095 20.3		
22, 23	N29 59.3 W095 20.3		
24	N29 59.3 W095 20.3		
30, 31	N29 59.1 W095 20.5		
32, 33	N29 59.1 W095 20.4		
34 thru 36	N29 59.1 W095 20.3		
37, 39, 40	N29 59.0 W095 20.3		
41 thru 43	N29 59.1 W095 20.3		
44, 45	N29 59.1 W095 20.2		

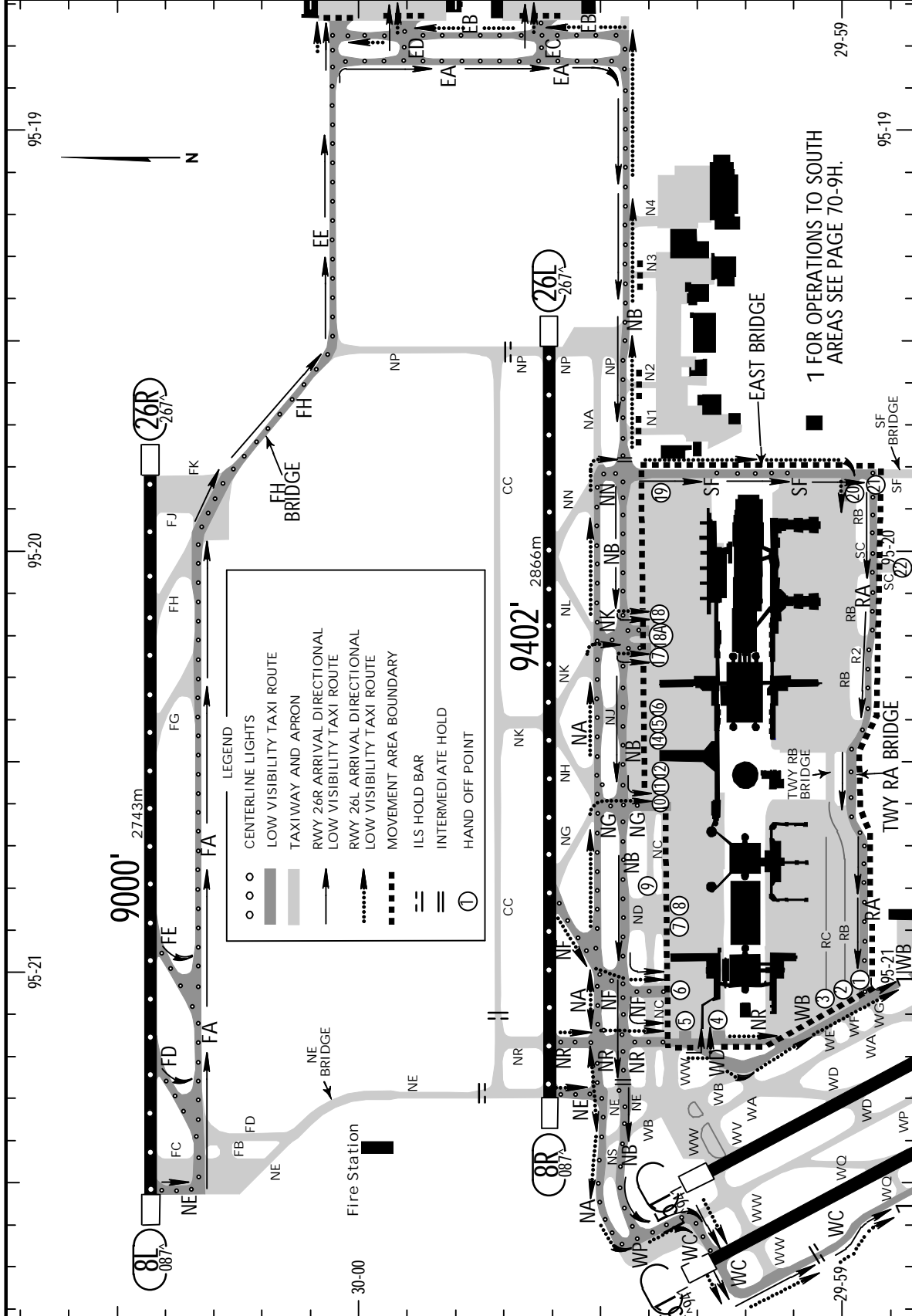
KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON
.RVR.1200.TO.600.

JEPPESEN
3 APR 20 (70-9D)

SMGCS HOUSTON, TEXAS LOW VISIBILITY TAXI ROUTES .RWY.26L.&.26R.ARRIVAL

D-ATIS 124.05	Data Comm ACARS: D-ATIS PDC TWIP	Comm CPDLC: DCL	HOUSTON Approach (R)		Tower			Rwys 15L/33R, 15R/33L
			West 124.35	East 120.05	Rwy 8L/26R 120.725	Rwy 8R/26L 125.35	Rwy 9/27 135.15	127.3
Rwys 8L/26R 8R/26L, 9/27 118.575	Ground	Rwys 15L/33R, 15R/33L 121.7	Ground Metering		North	East		West
			119.95		130.825	131.275		121.625



KIAH/IAH

GEORGE BUSH INTERCONTINENTAL/HOUSTON

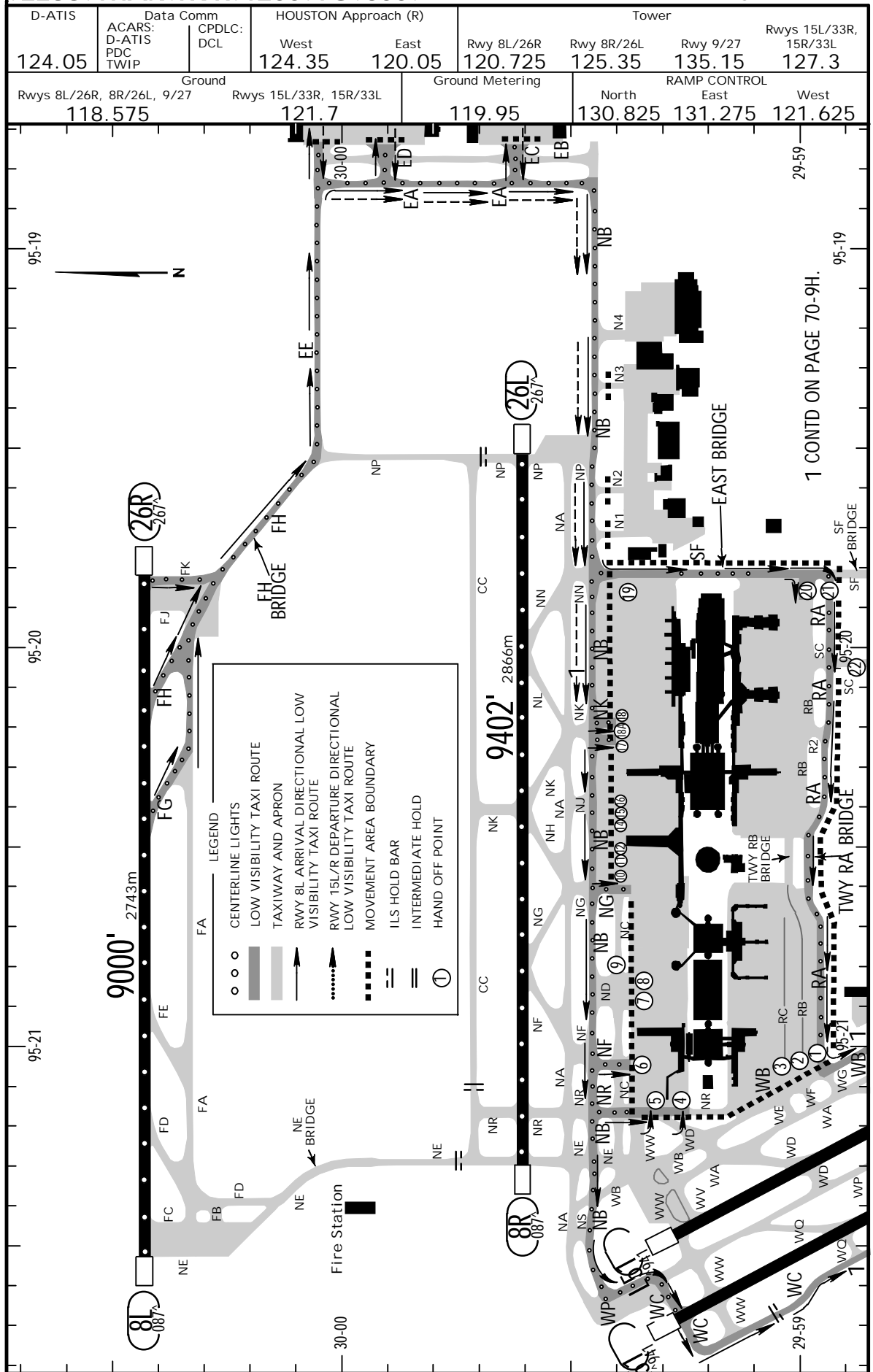
LESS THAN RVR. 1200 TO 600.

JEPPESEN
3 APR 20 **(70-9F)**

SMGCS HOUSTON, TEXAS

LOW VISIBILITY TAXI ROUTES

RWY. 8L ARRIVAL.



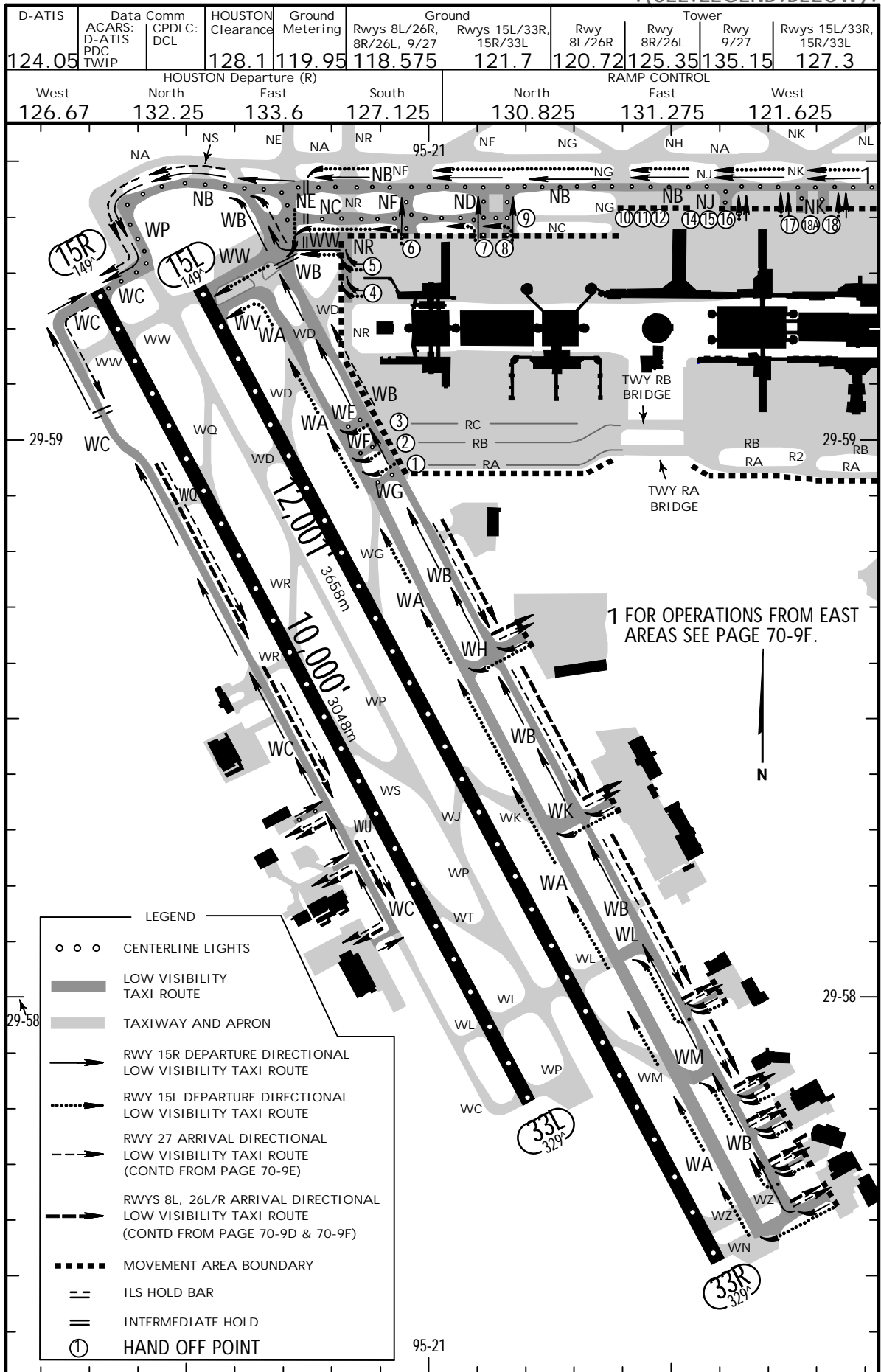
1 CONTD ON PAGE 70-9H.

KIAH/IAH

JEPPESEN
17 MAY 19 (70-9H)

GEORGE BUSH
INTERCONTINENTAL/HOUSTON
LESS THAN RVR. 1200 TO 600.

SMGCS
HOUSTON, TEXAS
LOW VISIBILITY TAXI ROUTES
ARRIVALS AND DEPARTURES.
(SEE LEGEND BELOW)



KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

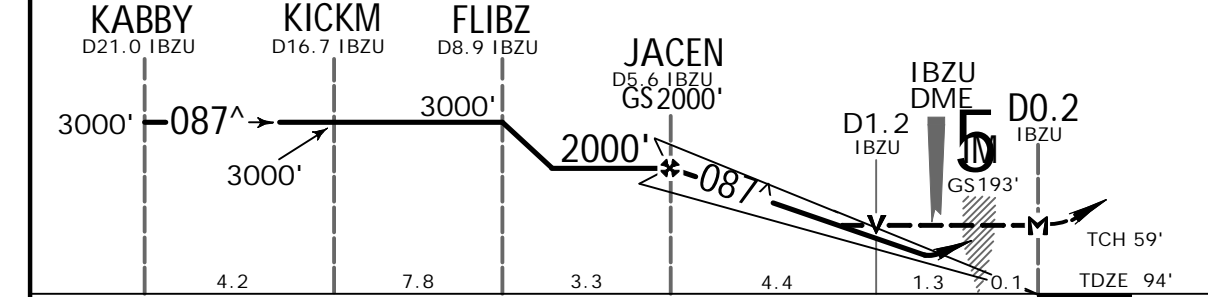
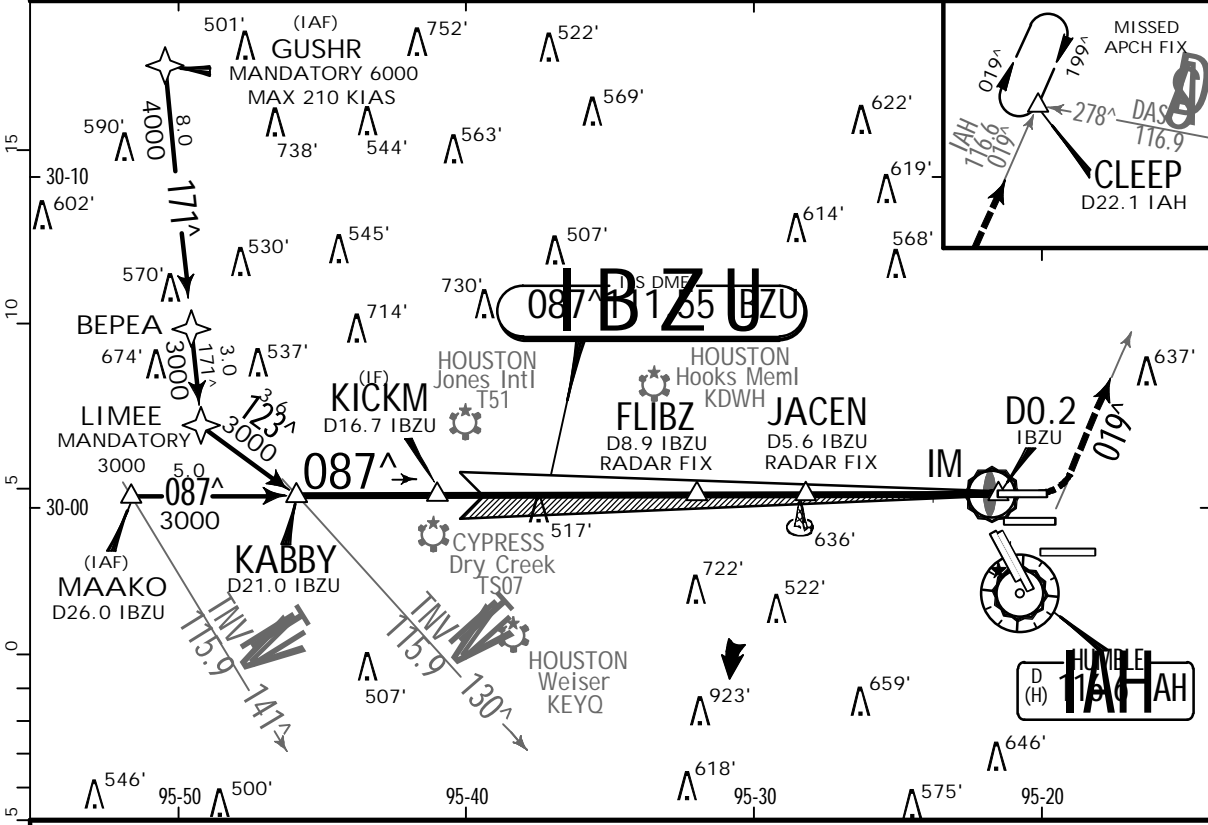


14 JUN 19 (71-1) .Eff.20.Jun.

HOUSTON, TEXAS

ILS or LOC Rwy 8L

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.725	125.35	135.15	127.3	118.575	121.7
	LOC IBZU 111.55	Final Apch Crs 087^		GS JACEN 2000' (1906')		ILS DA(H) 294' (200')	Apt Elev 96' TDZE 94'		<p>MSA IAH VOR</p>
MISSED APCH: Climb to 600' then climbing LEFT turn to 4000' outbound on IAH VOR R-019 to CLEEP INT/D22.1 IAH and hold.									
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME required. From GUSHR: RNAV 1-GPS required.									
1. Simultaneous approach authorized with Rwys 8R and 9.									



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II	600'	4000'	IAH	CLEEP
GS	3.00^	372	478	531	637	849		↑	←	on 116.6 R-019	
MAP at D0.2 IBZU or JACEN to MAP	5.8	4:58	3:52	3:29	2:54	2:29					

TERPS AMEND 4E 20 JUN 2019	TERPS.				STRAIGHT-IN LANDING RWY 8L			
	ILS DA(H) 294' (200')			LOC (GS out) MDA(H) 600' (506')				
	FULL	IDZ/CL out	ALS out			ALS out		
	A			RVR 24 or 1/2		RVR 55 or 1		
B		1						
C	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 55 or 1		1 1/2		
D								
1 RVR 18 with Flight Director or Autopilot or HUD to DA.								

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

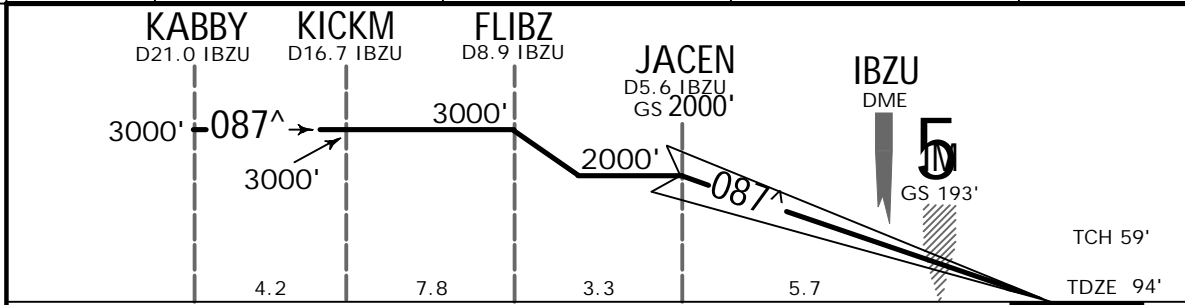
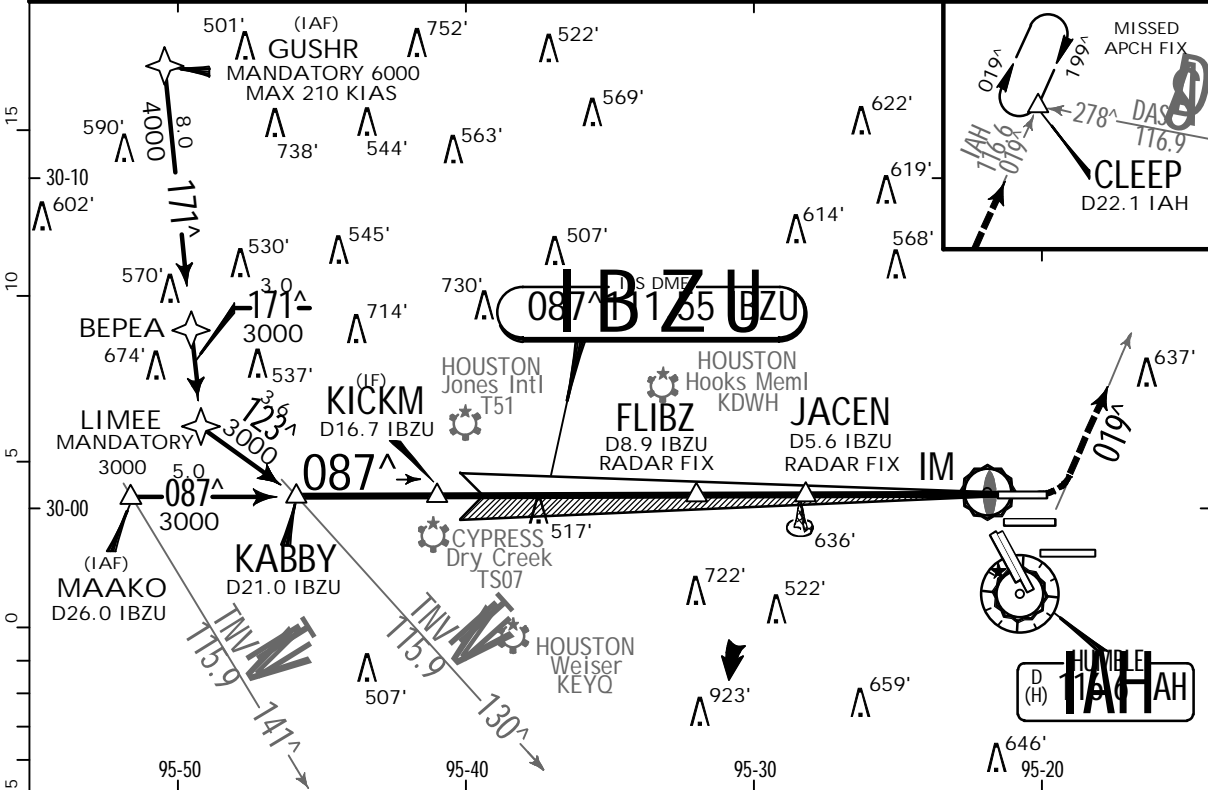


14 JUN 19
Eff. 20 Jun. (71-1A)

HOUSTON, TEXAS

ILS Rwy 8L CAT II & III

BRIEFING STRIP™	D-ATIS		HOUSTON Approach (R)		HOUSTON Tower			Ground		
	West		East		Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.725	125.35	135.15	127.3	118.575	121.7	
LOC IBZU	Final Apch Crs	GS JACEN		CAT III ILS Refer to Minimums		CAT II ILS RA 108'		Apt Elev 96'	<p>MSA IAH VOR</p>	
111.55	087°	2000' (1906')				DA(H) 194' (100')		TDZE 94'		
<p>MISSED APCH: Climb to 600' then climbing LEFT turn to 4000' outbound on IAH VOR R-019 to CLEEP INT/D22.1 IAH and hold.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>DME required. From GUSHR: RNAV 1-GPS required.</p> <p>1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwys 8R and 9.</p>										



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	600'	4000'	IAH R-019	CLEEP
Gs	3.00°	372	478	531	637	849					

TERPS.		STRAIGHT-IN LANDING RWY 8L	
CAT III ILS		CAT II ILS RA 108'	
RVR 6		DA(H) 194' (100')	
1 RVR 10 authorized with specific OPSPEC, MSPEC, or LOA approval and use of Autoland or HUD to touchdown.		1 RVR 12	

TERPS AMEND 4E 20 JUN 2019

KIAH/IAH

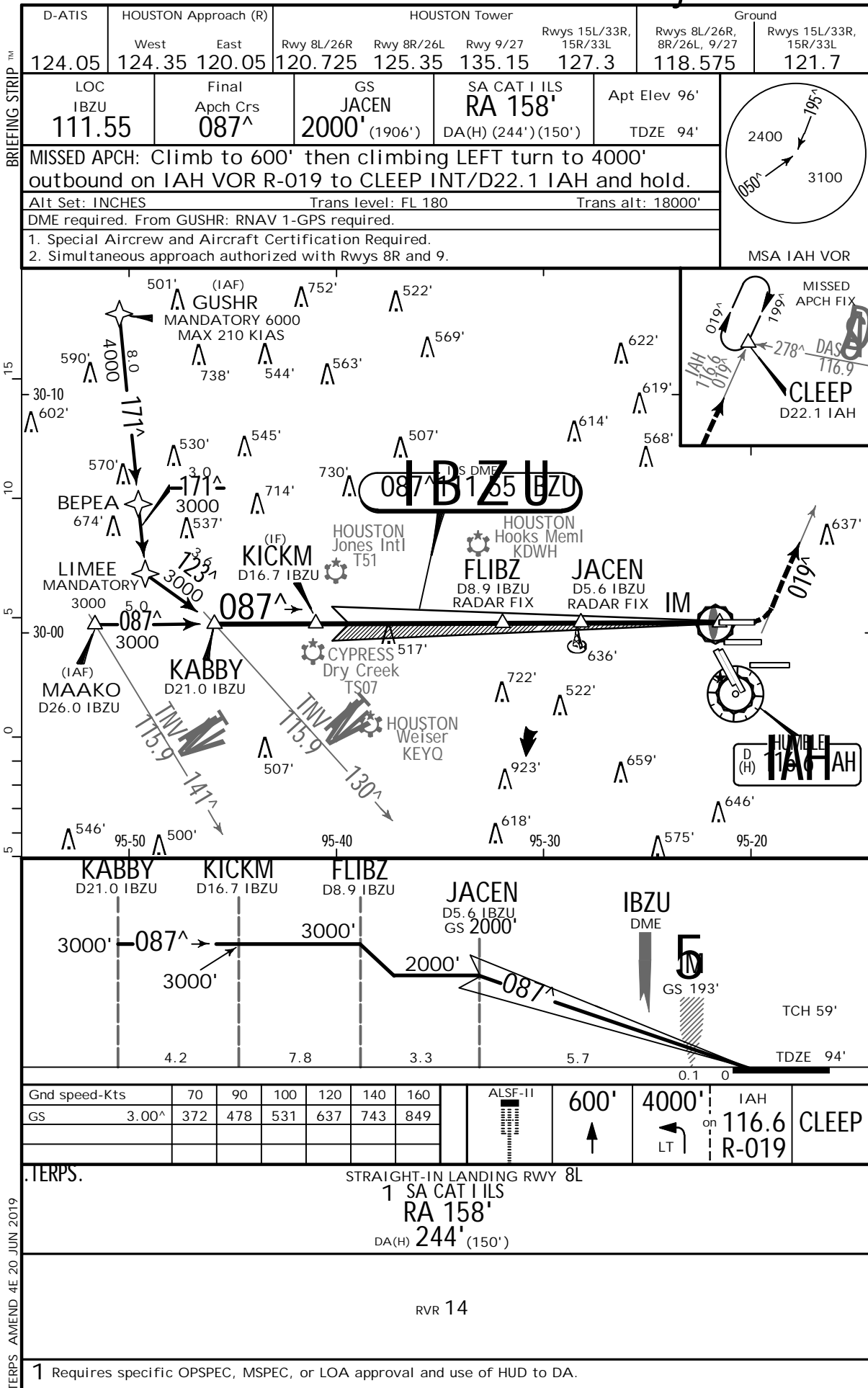
GEORGE BUSH
INTERCONTINENTAL/HOUSTON

JEPPESSEN

14 JUN 19
Eff. 20 Jun. (71-1B)

HOUSTON, TEXAS

ILS Rwy 8L SA CAT I



TERPS AMEND 4E 20 JUN 2019

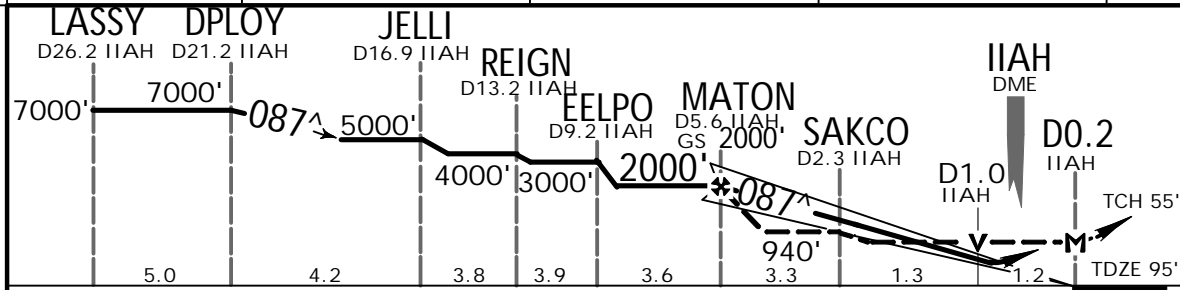
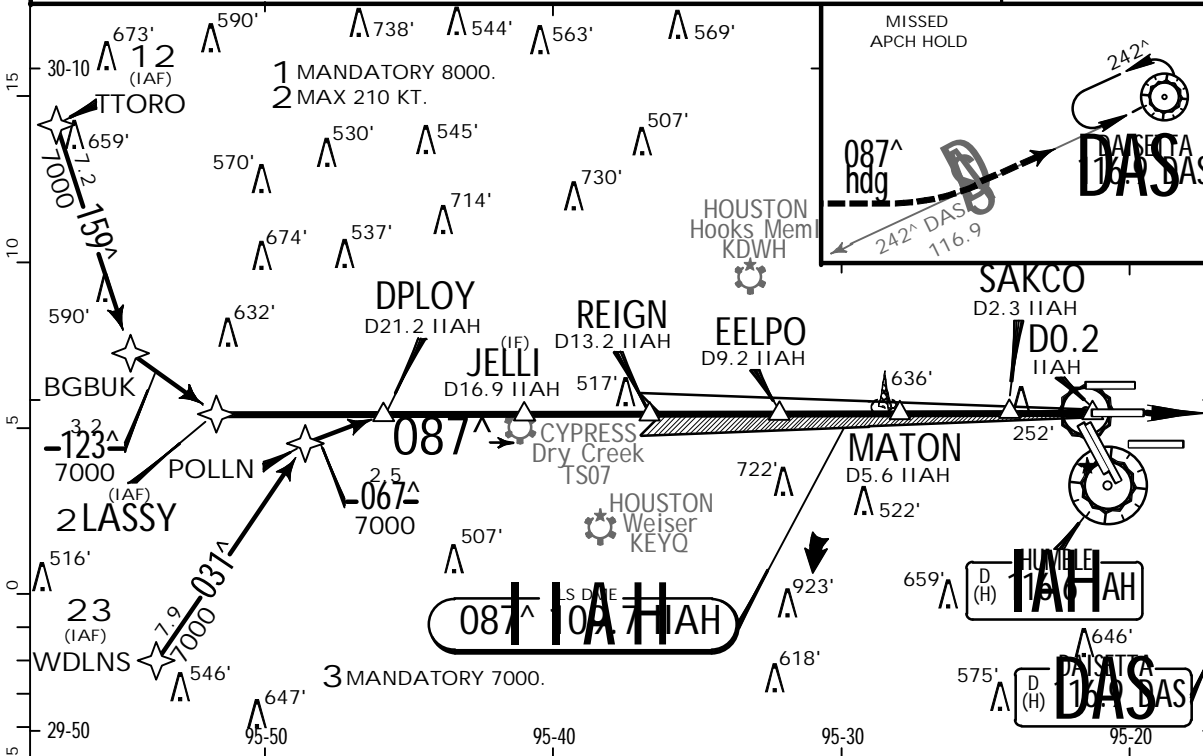
KIAH/IAH
 GEORGE BUSH

JEPPesen
 28 JUN 19 (71-2)

HOUSTON, TEXAS
 ILS or LOC Rwy 8R

INTERCONTINENTAL/HOUSTON

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7
LOC IIAH 109.7	Final Apch Crs 087 [^]	GS MATON 2000' (1905')	ILS DA(H) 295' (200')	Apt Elev 96'	TDZE 95'			
MISSED APCH: Climb to 3000' on heading 087 [^] and inbound on DAS VOR R-242 to DAS VOR and hold.							MSA IAH VOR	
Alt Set: INCHES			Trans level: FL 180		Trans alt: 18000'			
RNAV 1-GPS or radar required for procedure entry, DME.								
1. Simultaneous approach authorized. 2. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 72').								



Gnd speed-Kts	70	90	100	120	140	160		3000'	087 [^] hdg	DAS 116.9 R-242
GS	3.00 [^]	372	478	531	637	743				
MAP at DO.2 IIAH or										
MATON to MAP	5.8	4:58	3:52	3:29	2:54	2:29	2:10			

TERPS	ILS			STRAIGHT-IN LANDING RWY 8R		LOC (GS out)	
	DA(H) 295' (200')					MDA(H) 560' (465')	
	FULL	TDZ/CL out	RAIL/ALS out		RAIL/ALS out		
A					RVR 24 or 1/2		
B	RVR 18 or 1/2	1 RVR 24 or 1/2	RVR 40 or 3/4		RVR 50 or 1		
C					RVR 50 or 1		
D					1 3/8		

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

TERPS AMEND 26 11 OCT 2018

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON



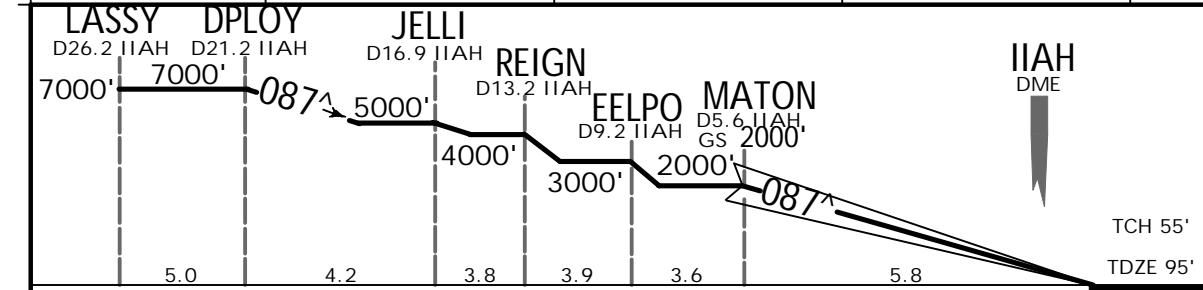
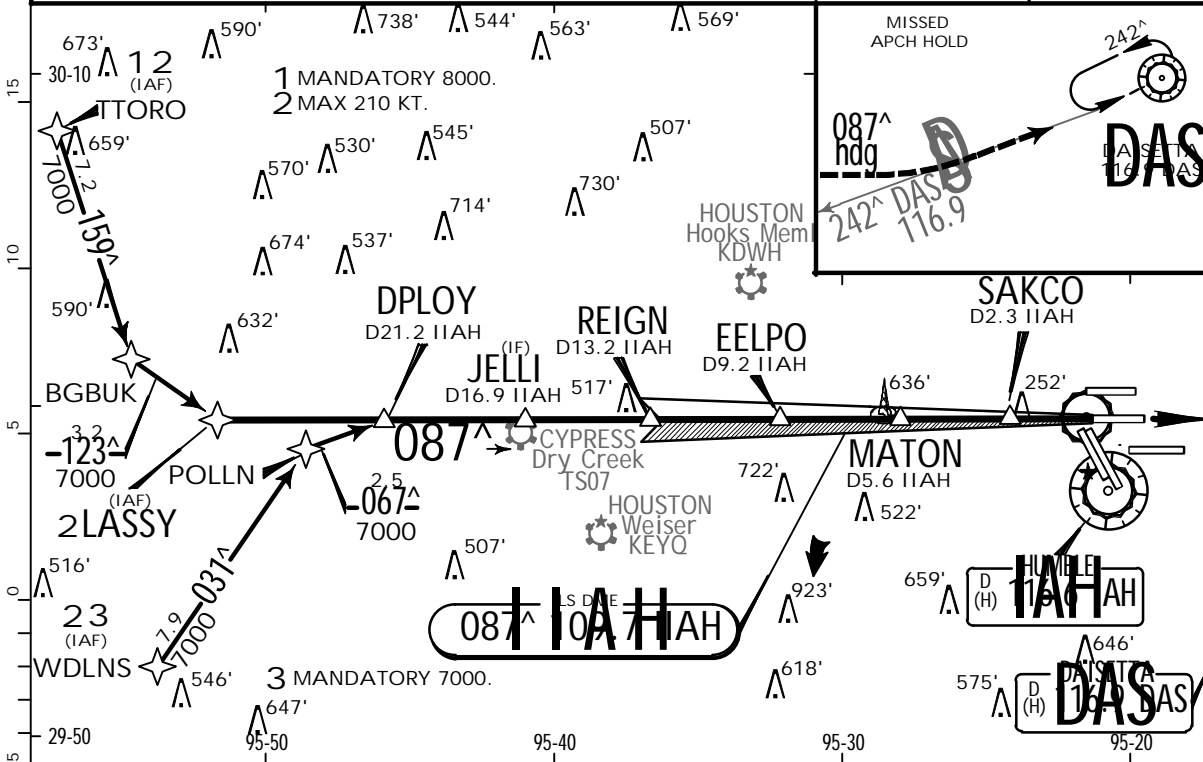
28 JUN 19

71-2A

HOUSTON, TEXAS

ILS Rwy 8R SA CAT I

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7
LOC IIAH	Final Apch Crs		GS MATON	SA CAT I ILS RA 152'		Apt Elev 96'		
109.7	087^		2000' (1905')	DA(H) 245' (150')		TDZE 95'		
MISSED APCH: Climb to 3000' on heading 087^ and inbound on DAS VOR R-242 to DAS VOR and hold.								
Alt Set: INCHES				Trans level: FL 180		Trans alt: 18000'		
RNAV 1-GPS or radar required for procedure entry, DME.								
1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00^/TCH 72').								MSA IAH VOR



Gnd speed-Kts	70	90	100	120	140	160		3000' on 087^ and DAS R-242
GS	3.00^	372	478	531	637	849		

TERPS. STRAIGHT-IN LANDING RWY 8R

1 SA CAT I ILS RA 152'
DA(H) 245' (150')

RVR 14

1 Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

TERPS AMEND 26 11 OCT 2018

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON



28 JUN 19

71-2B

HOUSTON, TEXAS

ILS Rwy 8R SA CAT II

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7

LOC IIAH 109.7	Final Apch Crs 087^	GS MATON 2000' (1905')	SA CAT II ILS RA 102' DA(H) 195' (100')	Apt Elev 96' TDZE 95'
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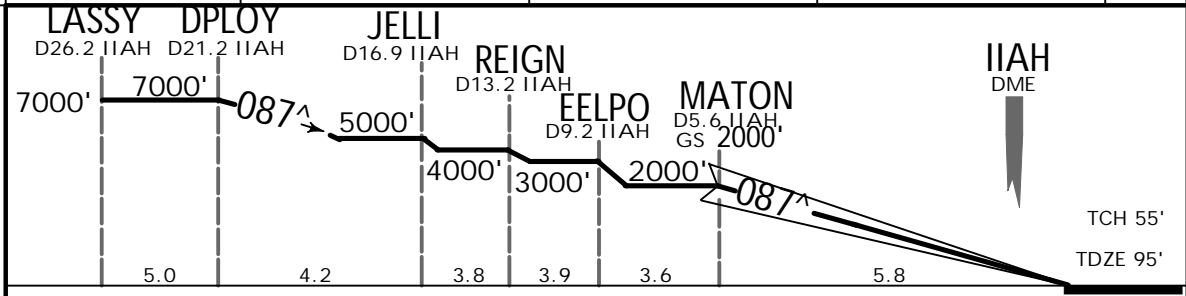
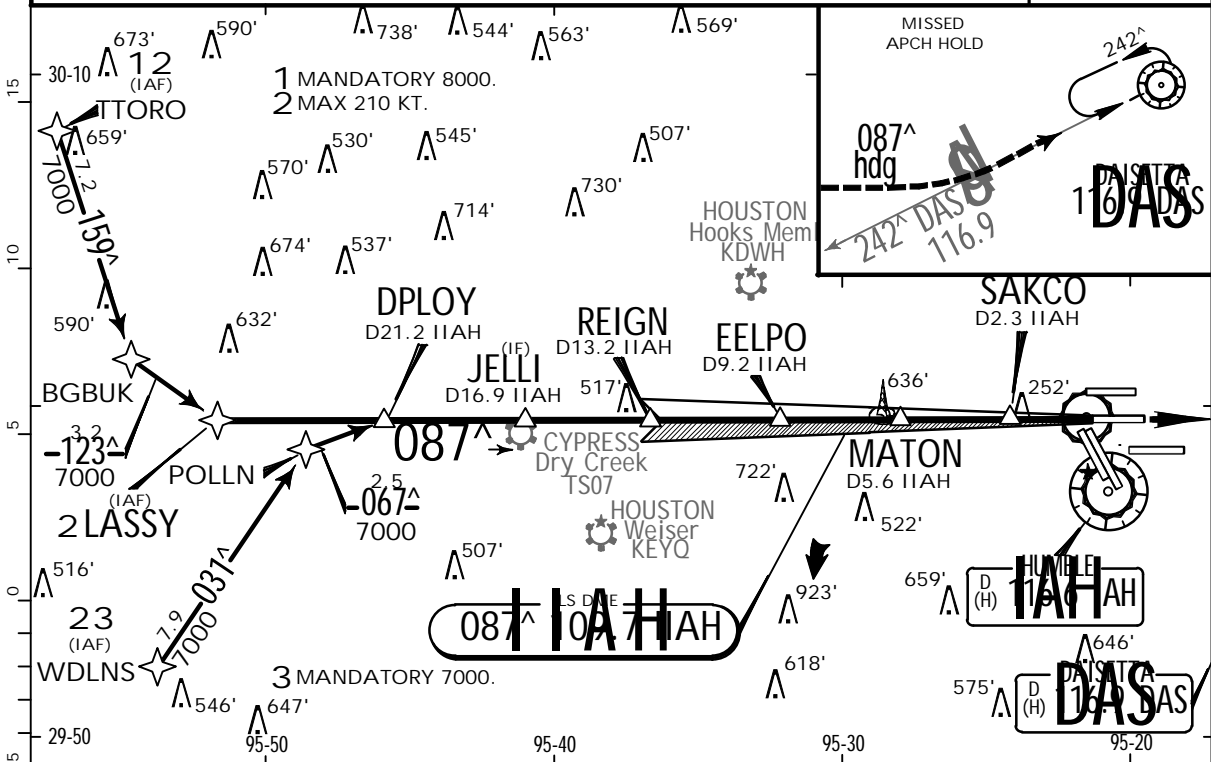
MISSED APCH: Climb to 3000' on heading 087^ and inbound on DAS VOR R-242 to DAS VOR and hold.

Ait Set: INCHES Trans level: FL 180 Trans alt: 18000'

RNAV 1-GPS or radar required for procedure entry, DME.

1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized. 3. VGSI and ILS glidepath no coincident (VGSI angle 3.00^/TCH 72').

MSA IAH VOR



Gnd speed-Kts	70	90	100	120	140	160	MALSR 3000'	PAPI ↑	087^ on hdg	DAS 116.9 and R-242
GS	3.00^	372	478	531	637	743				

TERPS. STRAIGHT-IN LANDING RWY 8R
1 SA CAT II ILS RA 102'
DA(H) 195' (100')

RVR 12

1 Reduced lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of AUTOLAND or HUD to touchdown.

TERPS AMEND 26 11 OCT 2018

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

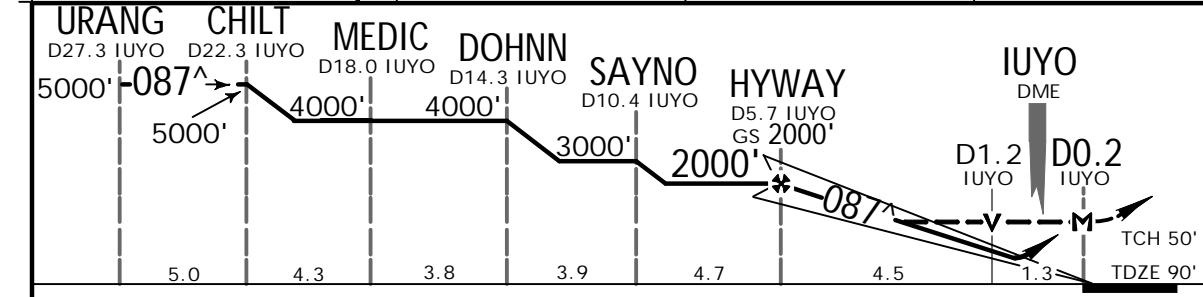
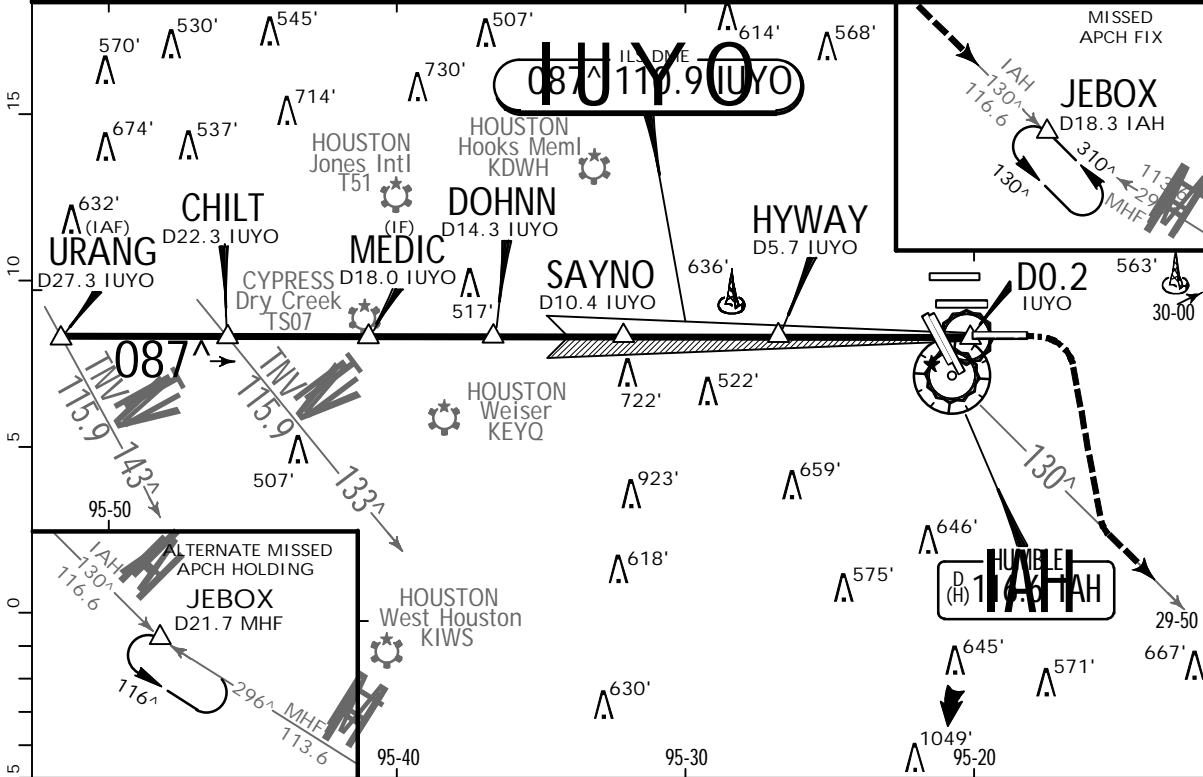


19 APR 19 (71-3) .Eff.25.Apr.

HOUSTON, TEXAS

ILS or LOC Rwy 9

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 9/27	Rwy 8L/26R	Rwy 8R/26L	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	135.15	120.725	125.35	127.3	118.575	121.7
	LOC IUYO 110.9	Final Apch Crs 087[^]	GS HYWAY 2000' (1910')	ILS DA(H) 290' (200')	Apt Elev 96'		TDZE 90'		
MISSED APCH: Climb to 580' then climbing RIGHT turn to 3000' outbound on IAH VOR R-130 to JEBOX/D18.3 IAH and hold.									
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME required. RADAR required for procedure entry.									
1. Simultaneous approach authorized with Rwys 8L/R. 2. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 71').									



Gnd speed-Kts	70	90	100	120	140	160	MALSR	580'	3000'	IAH on R-130	JEBOX
GS	3.00 [^]	372	478	531	637	849					
MAP at D0.2 IUYO or HYWAY to MAP	5.8	4:58	3:52	3:29	2:54	2:29	PAPI	↑	RT		

TERPS.				STRAIGHT-IN LANDING RWY 9			
FULL		RAIL/ALS out		LOC (GS out)		RAIL/ALS out	
DA(H) 290' (200')				MDA(H) 580' (490')			
A				RVR 24 or 1/2			RVR 55 or 1
B							
C	1 RVR 24 or 1/2			RVR 40 or 3/4			
D							1 1/2

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

KIAH/IAH



HOUSTON, TEXAS

GEORGE BUSH

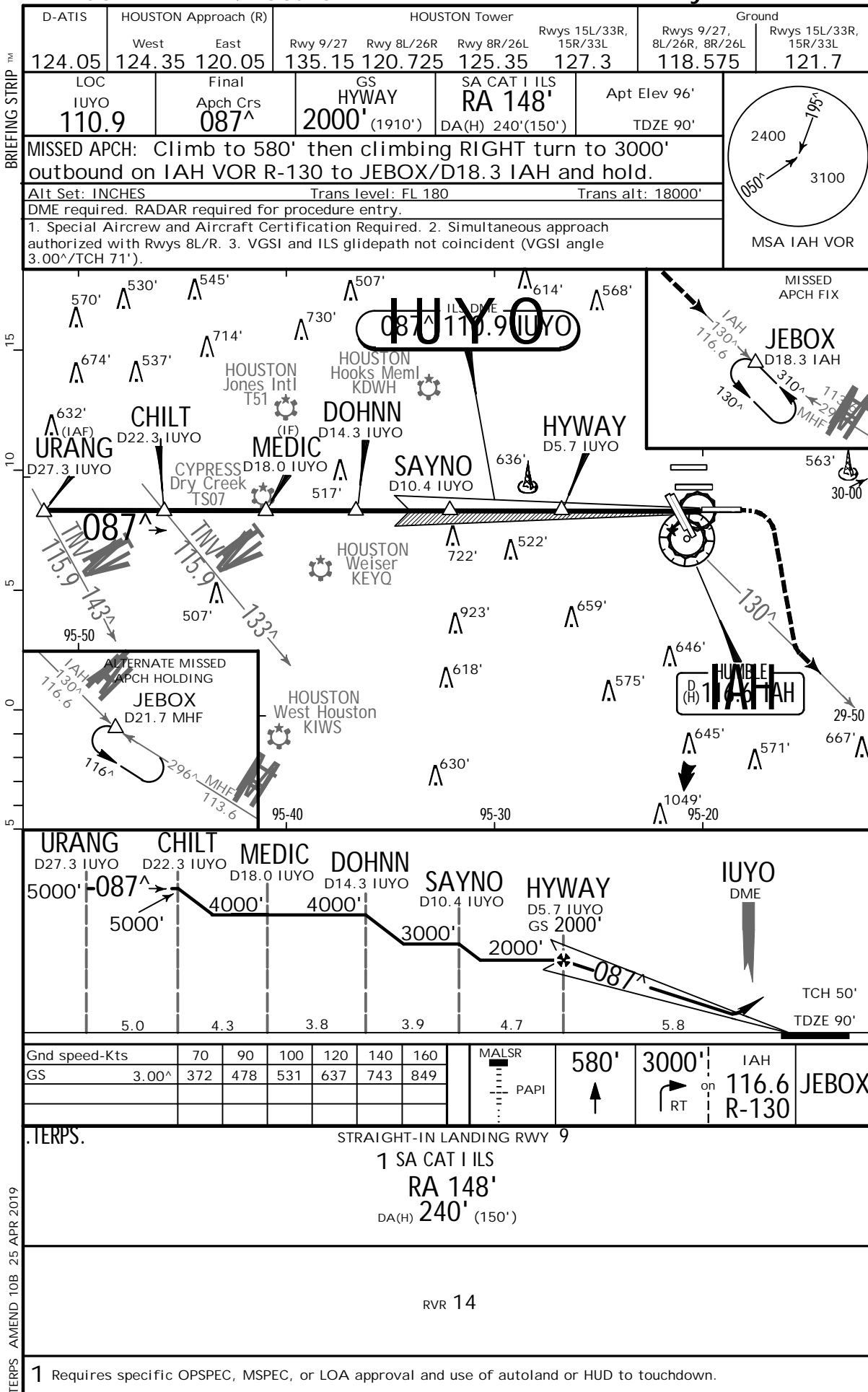
19 APR 19

(71-3A)

.Eff.25.Apr.

ILS Rwy 9 SA CAT I

INTERCONTINENTAL/HOUSTON



TERPS AMEND 10B 25 APR 2019

KIAH/IAH



HOUSTON, TEXAS

GEORGE BUSH

19 APR 19

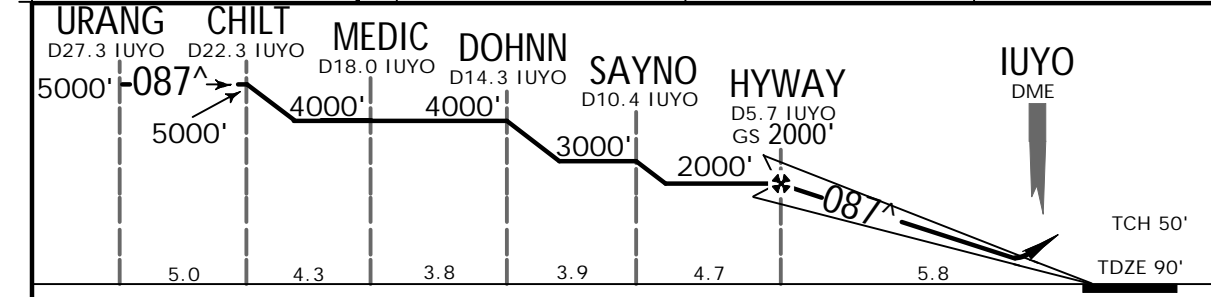
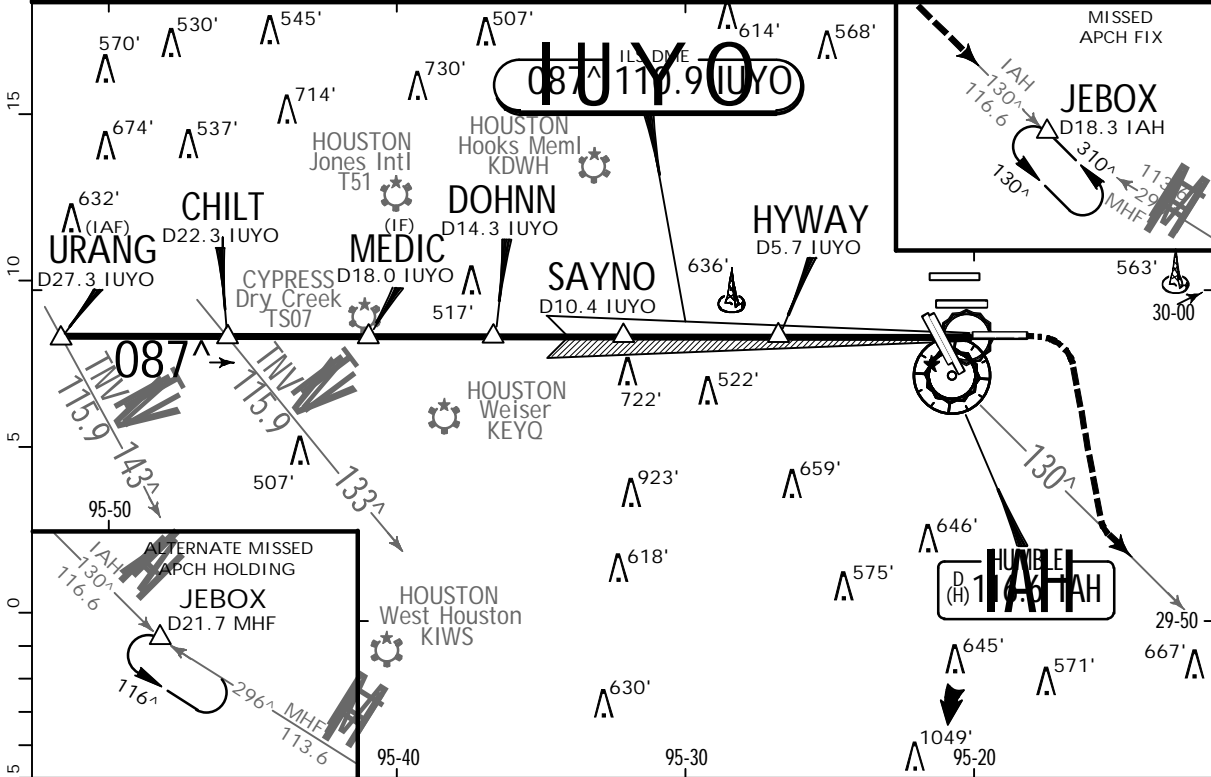
71-3B

.Eff.25.Apr.

ILS Rwy 9 SA CAT II

INTERCONTINENTAL/HOUSTON

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 9/27	Rwy 8L/26R	Rwy 8R/26L	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	135.15	120.725	125.35	127.3	118.575	121.7
LOC IUYO 110.9	Final Apch Crs 087 [^]		GS HYWAY 2000' (1910')	SA CAT II ILS RA 98'		Apt Elev 96'		<p>MSA IAH VOR</p>
MISSED APCH: Climb to 580' then climbing RIGHT turn to 3000' outbound on IAH VOR R-130 to JEBOX/D18.3 IAH and hold.								
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'		
DME required. RADAR required for procedure entry.								
1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwys 8L/R. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 71').								



Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI 580' 3000' IAH on R-130 JEBOX
GS	3.00 [^]	372	478	531	637	849	

.TERPS.
 STRAIGHT-IN LANDING RWY 9
 1 SA CAT II ILS
 RA 98'
 DA(H) 190' (100')

RVR 12

1 Reduced Lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

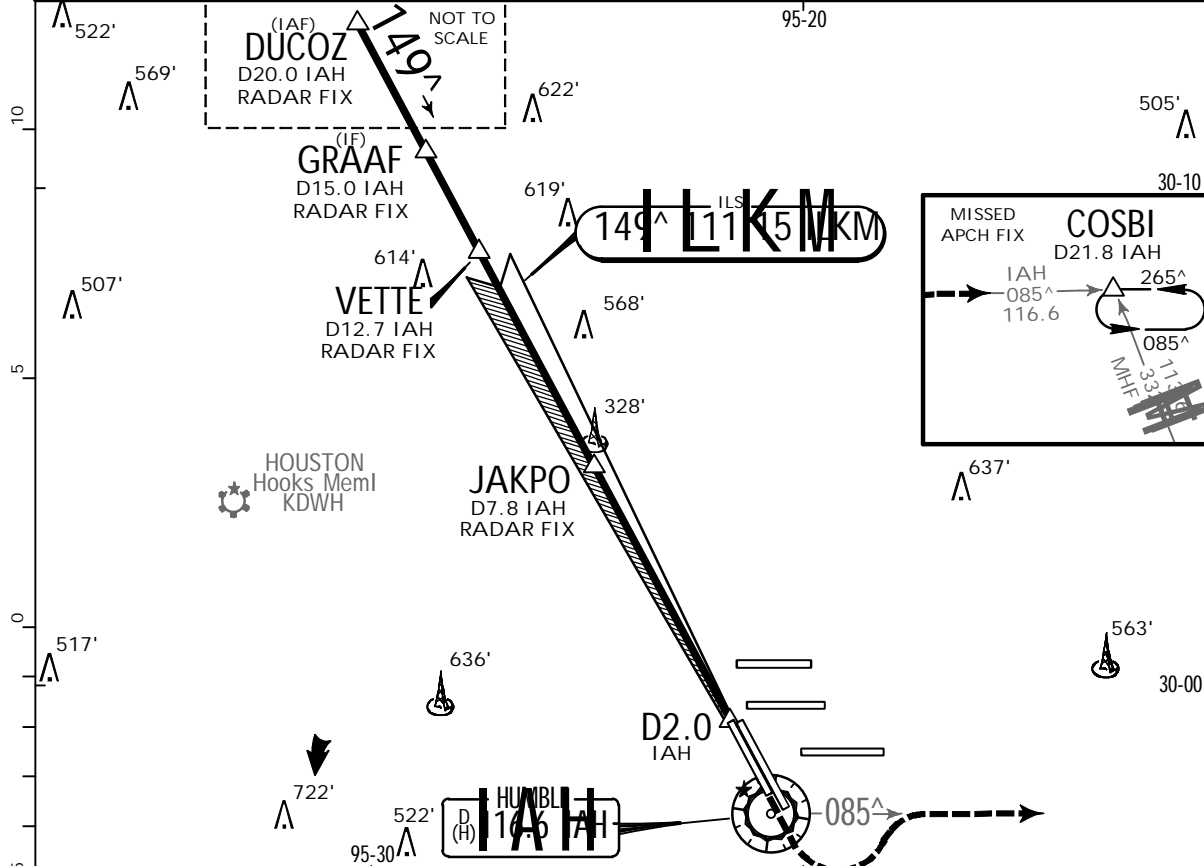
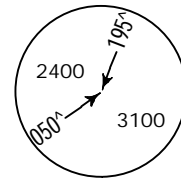
KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

JEPPesen
19 APR 19 (71-4). Eff. 25 Apr.

HOUSTON, TEXAS
ILS or LOC Rwy 15R

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwys 15R/33L, 15L/33R	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15R/33L, 15L/33R	Rwys 8L/26R, 8R/26L, 9/27
	124.05	124.35	120.05	127.3	120.725	125.35	135.15	121.7	118.575
	LOC ILKM 111.15	Final Apch Crs 149^	GS JAKPO 2000' (1904')	ILS DA(H) 295' (200')	Apt Elev 96'	TDZE 95'			
MISSED APCH: Climb to 1000' then climbing LEFT turn to 2000' outbound on IAH VOR R-085 to COSBI INT/D21.8 IAH and hold.									
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME or Radar required. Radar required for procedure entry.									
1. DME from IAH VOR, simultaneous reception of ILKM and IAH DME required. 2. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 71').									



DUCOZ D20.0 IAH	GRAAF D15.0 IAH	VETTE D12.7 IAH	JAKPO D7.8 IAH GS 2000'	D3.3 IAH	D2.0 IAH
3000'	3000'	3000'	2000'		
5.0	2.3	4.9	4.5	1.3	
TCH 54'					
TDZE 95'					

Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI 1000' 2000' IAH on 116.6 R-085 COSBI	
GS	3.00^	372	478	531	637	743		849
MAP at D2.0 IAH or JAKPO to MAP	5.8	4:58	3:52	3:29	2:54	2:29		2:10

TERPS.					STRAIGHT-IN LANDING RWY15R	
FULL			ILS DA(H) 295' (200')		LOC (GS out) MDA(H) 580' (485')	
TDZ/CL out		RAIL/ALS out		RAIL/ALS out		
A				RVR 24 or 1/2	RVR 55 or 1	
B		1				
C	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 50 or 1	1 3/8	
D						

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

TERPS AMEND 2B 25 APR 2019

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

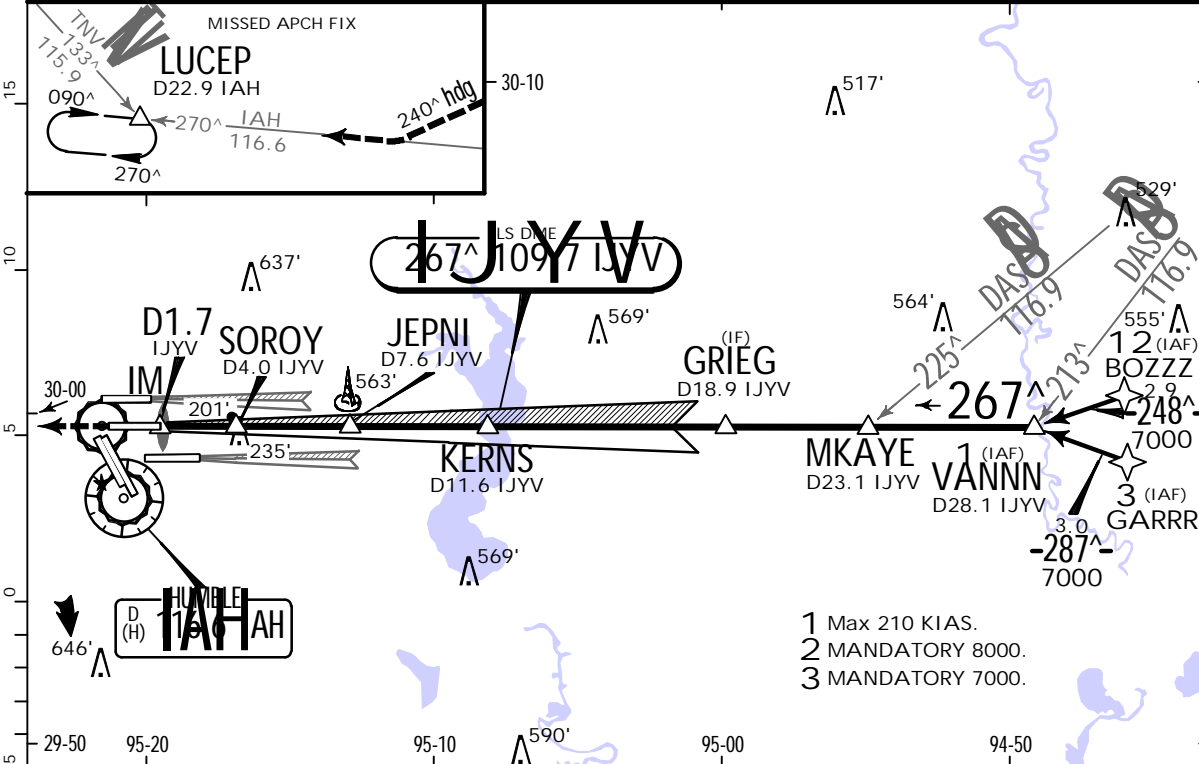


HOUSTON, TEXAS

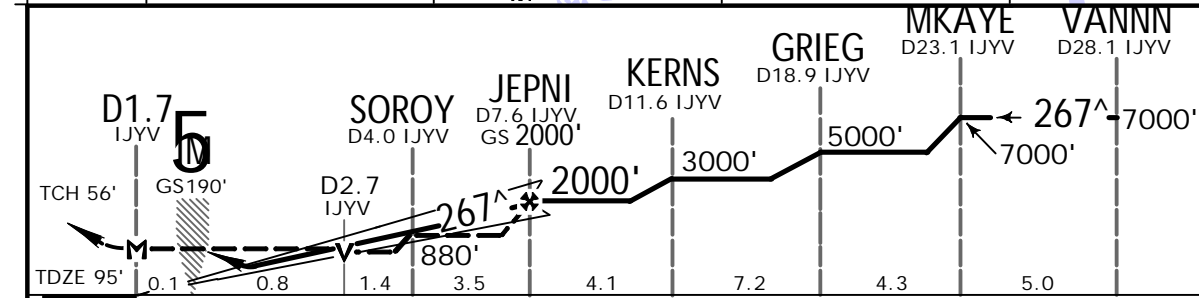
ILS or LOC Rwy 26L

19 APR 19
Eff. 25 Apr. (71-5)

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7
	LOC IJYV 109.7	Final Apch Crs 267 [^]		GS JEPNI 2000' (1905')	ILS DA(H) 295' (200')	Apt Elev 96' TDZE 95'		<p>MSA IAH VOR</p>	
MISSED APCH: Climb to 3000' then LEFT turn heading 240 [^] and outbound on IAH VOR R-270 to LUCEP INT/D22.9 IAH and hold.									
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME required. From BOZZZ, GARRR: RNAV 1-GPS required.									
1. Simultaneous approach authorized with Rwys 26R & 27.									
2. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 71').									



- 1 Max 210 KIAS.
- 2 MANDATORY 8000.
- 3 MANDATORY 7000.



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II PAPI	3000'	LT	240 [^] hdg and IAH R-270
GS 3.00 [^]	372	478	531	637	743	849				
MAP at D1.7 IJYV or JEPNI to MAP	5.8	4:58	3:52	3:29	2:54	2:29	2:10			

TERPS AMEND 21D 25 APR 2019	.TERPS.				STRAIGHT-IN LANDING RWY 26L			
	ILS DA(H) 295' (200')			LOC (GS out) MDA(H) 460' (365')				
	FULL	TDZ/CL out	ALS out			ALS out		
	A			RVR 24 or 1/2		RVR 55 or 1		
B	RVR 18 or 1/2	1 RVR 24 or 1/2	RVR 40 or 3/4		RVR 50 or 1			
C								
D								

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

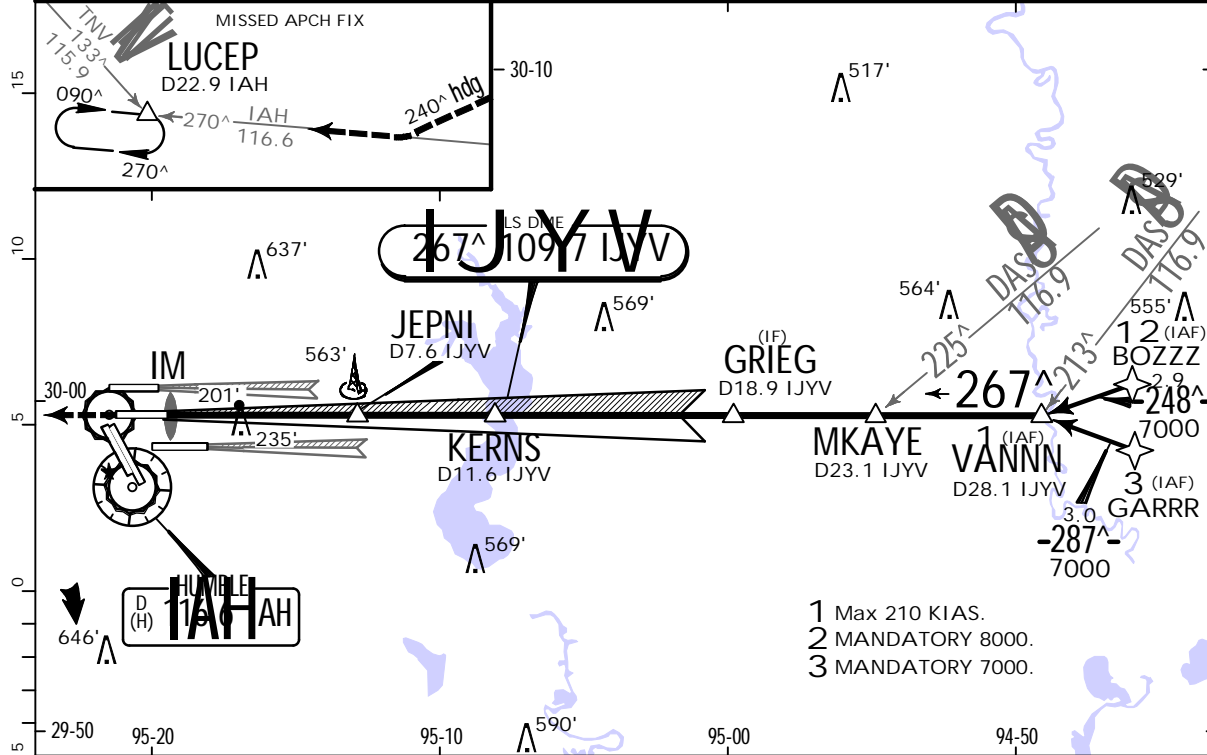
JEPPesen

19 APR 19
Eff. 25 Apr. (71-5A)

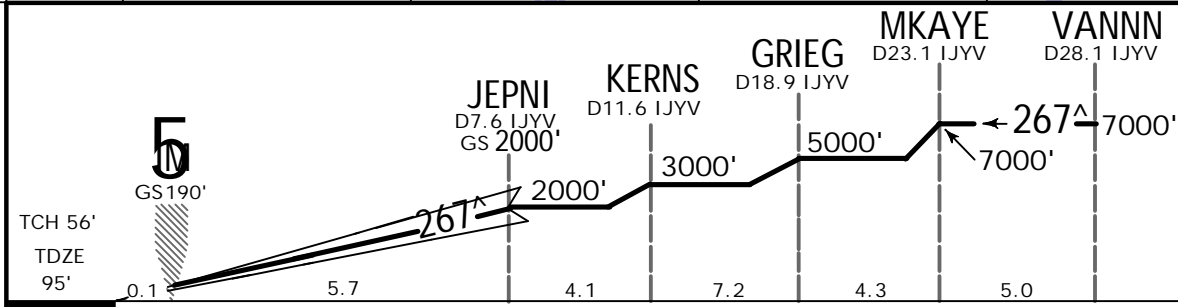
HOUSTON, TEXAS

ILS Rwy 26L CAT II & III

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7
LOC IJYV	Final Apch Crs	GS JEPNI	CAT III ILS	CAT II ILS	Apt Elev 96'				
109.7	267 [^]	2000' (1905')	Refer to Minimums	RA 100' DA(H) 195' (100')	TDZE 95'				
<p>MISSED APCH: Climb to 3000' then LEFT turn heading 240[^] and outbound on IAH VOR R-270 to LUCEP INT/D22.9 IAH and hold.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>DME required. From BOZZZ, GARRR: RNAV 1-GPS required.</p> <p>1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwys 26R & 27. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00[^]/TCH 71').</p>									



- 1 Max 210 KIAS.
- 2 MANDATORY 8000.
- 3 MANDATORY 7000.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000'	LT ↙	240 [^] hdg and 116.6 R-270
GS	3.00 [^]	372	478	531	637	849				

. TERPS. STRAIGHT-IN LANDING RWY 26L	
CAT III ILS	CAT II ILS RA 100' DA(H) 195' (100')
RVR 6	1 RVR 12

1 RVR 10 authorized with specific OPSPEC, MSPEC, or LOA approval and use of Autoland or HUD to touchdown.

TERPS AMEND 21D 25 APR 2019

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON



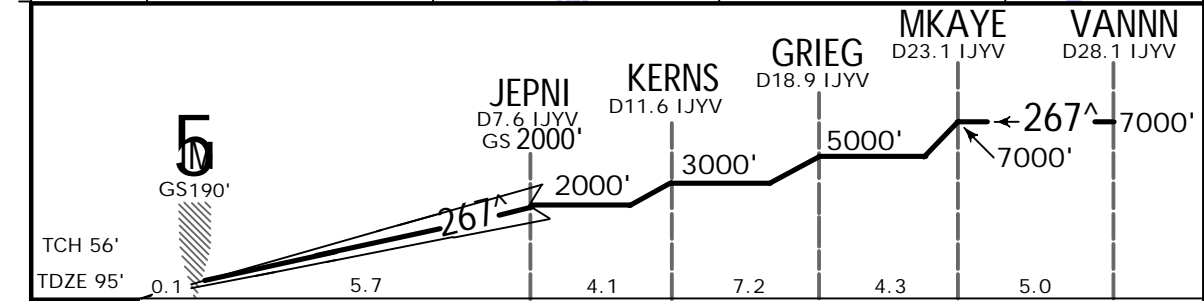
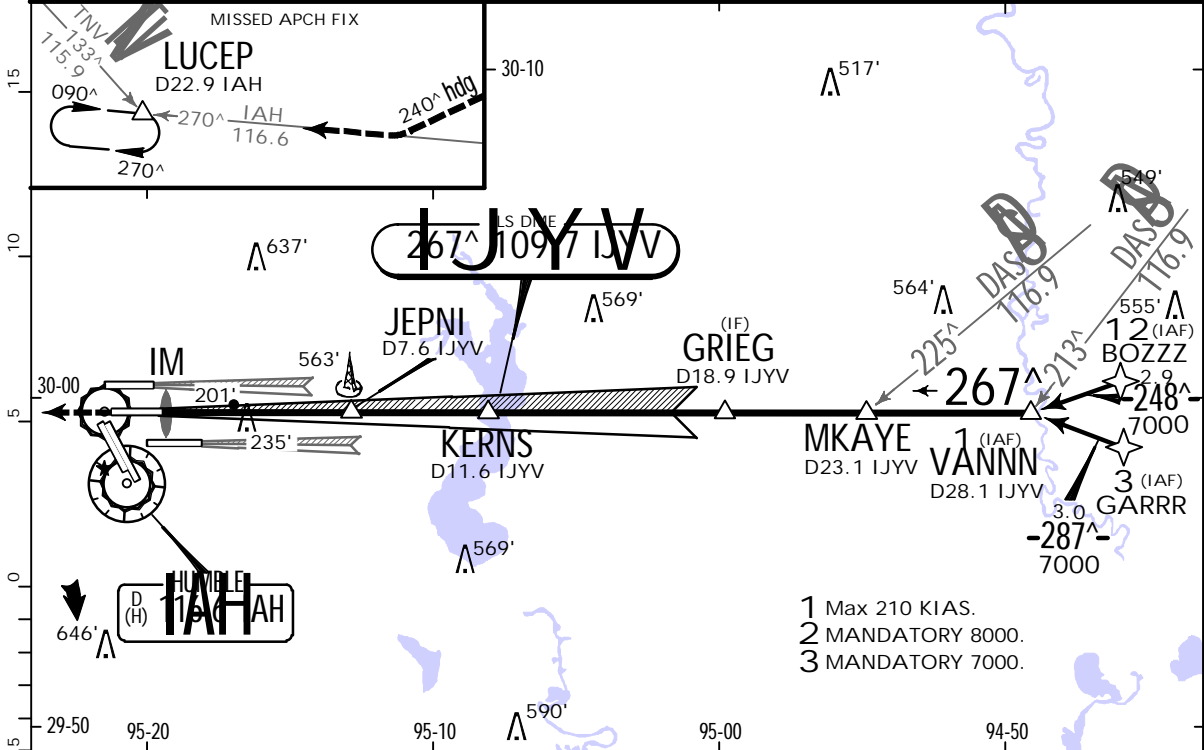
HOUSTON, TEXAS

19 APR 19
.Eff. 25 Apr.

(71-5B)

ILS Rwy 26L SA CAT I

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575	121.7
	LOC IJYV 109.7	Final Apch Crs 267 [^]		GS JEPNI 2000' (1905')	SA CAT I ILS RA 152'		Apt Elev 96'		TDZE 95'
MISSED APCH: Climb to 3000' then LEFT turn heading 240 [^] and outbound on IAH VOR R-270 to LUCEP INT/D22.9 IAH and hold.									
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME required. From BOZZZ, GARRR: RNAV 1-GPS required.									
1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwys 26R & 27. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 71').									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000'	LT	240 [^] and 116.6 hdg R-270
GS	3.00 [^]	372	478	531	637	743				

.TERPS. STRAIGHT-IN LANDING RWY 26L
1 SA CAT I ILS
RA 152'
DA(H) 245' (150')

RVR 14

1 Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

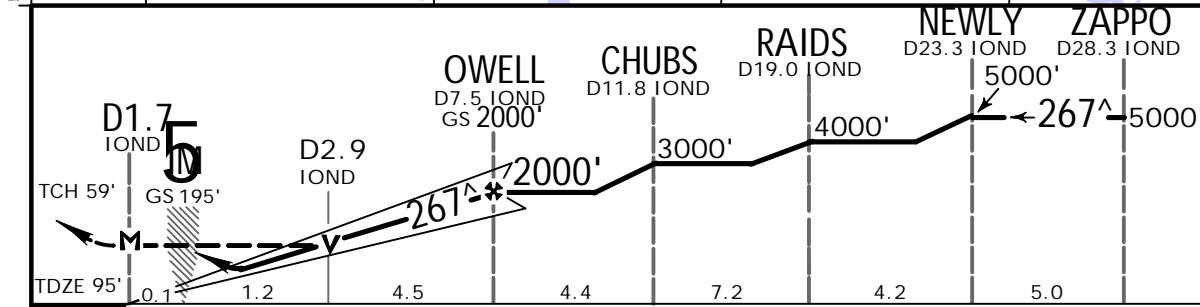
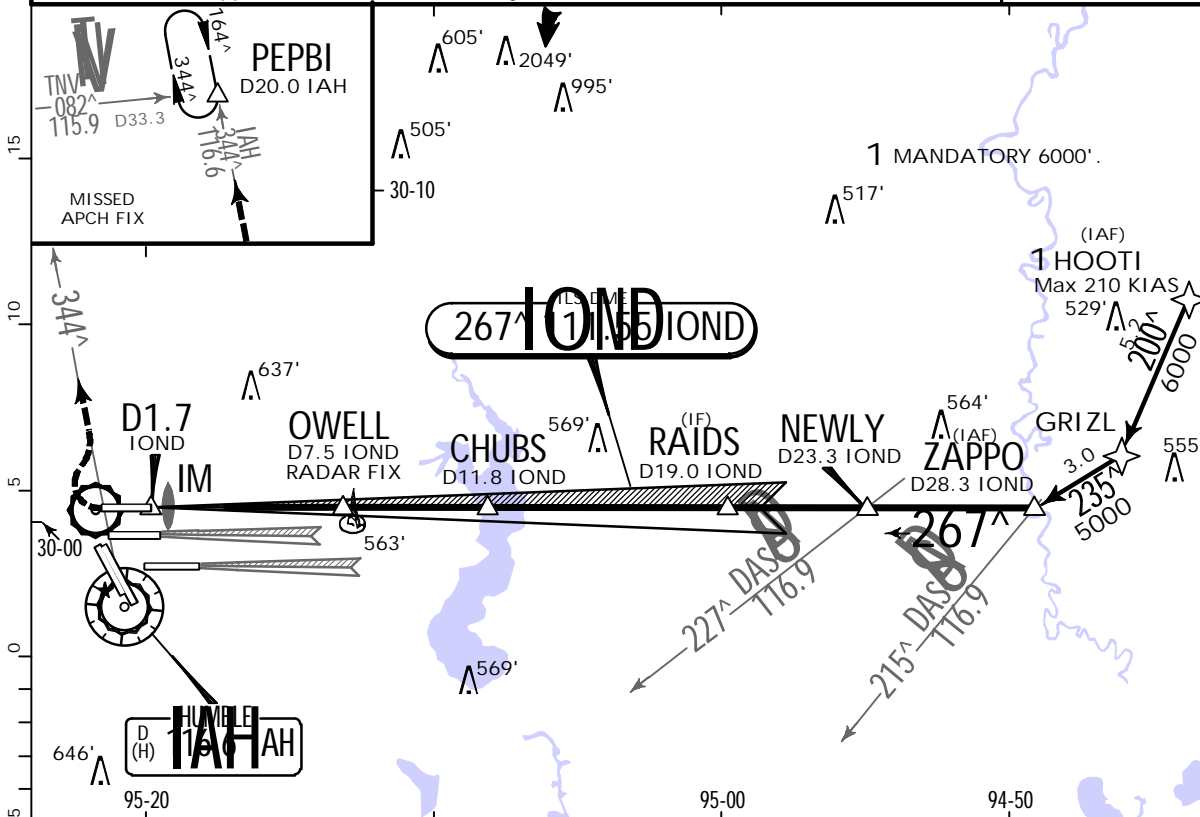
KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

JEPPESSEN
19 APR 19
.Eff. 25 Apr. (71-6)

HOUSTON, TEXAS
ILS or LOC Rwy 26R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.725	125.35	135.15	127.3	118.575	121.7
	LOC IOND 111.55	Final Apch Crs 267[^]		GS OWELL 2000' (1905')	ILS DA(H) 295' (200')	Apt Elev 96'		TDZE 95'	
MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' outbound on IAH VOR R-344 to PEPBI INT/D20.0 IAH and hold.									
Alt Set: INCHES				Trans level: FL 180			Trans alt: 18000'		
DME required. From HOOTI: RNAV 1-GPS required.									
1. Simultaneous approach authorized with Rwys 26L and 27.								MSA IAH VOR	



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II	600'	3000'	IAH on R-344	PEPBI	
GS	3.00 [^]											372
MAP at D1.7 IOND or OWELL to MAP	5.8	4:58	3:52	3:29	2:54	2:29	2:10					

.TERPS.				STRAIGHT-IN LANDING RWY 26R			
FULL		ILS DA(H) 295' (200')		LOC (GS out) MDA(H) 580' (485')			
TDZ/CL out		ALS out		ALS out			
A				RVR 24 or 1/2		RVR 55 or 1	
B							
C	RVR 18 or 1/2	1 RVR 24 or 1/2	RVR 40 or 3/4				
D				RVR 50 or 1		1 3/8	

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

TERPS AMEND 4B 25 APR 2019

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

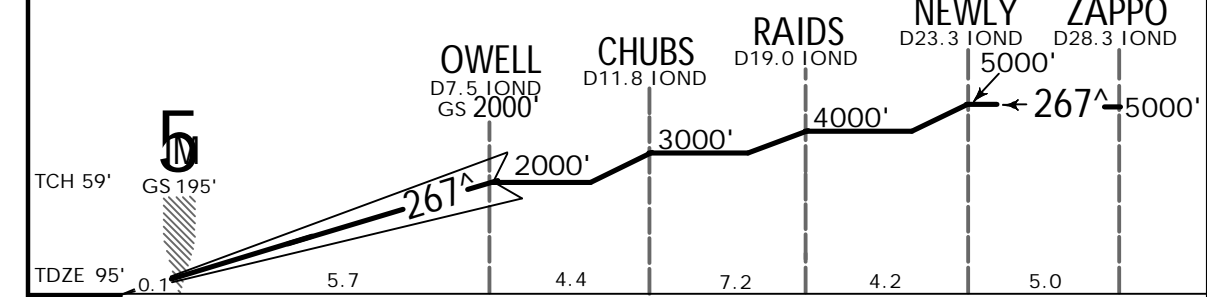
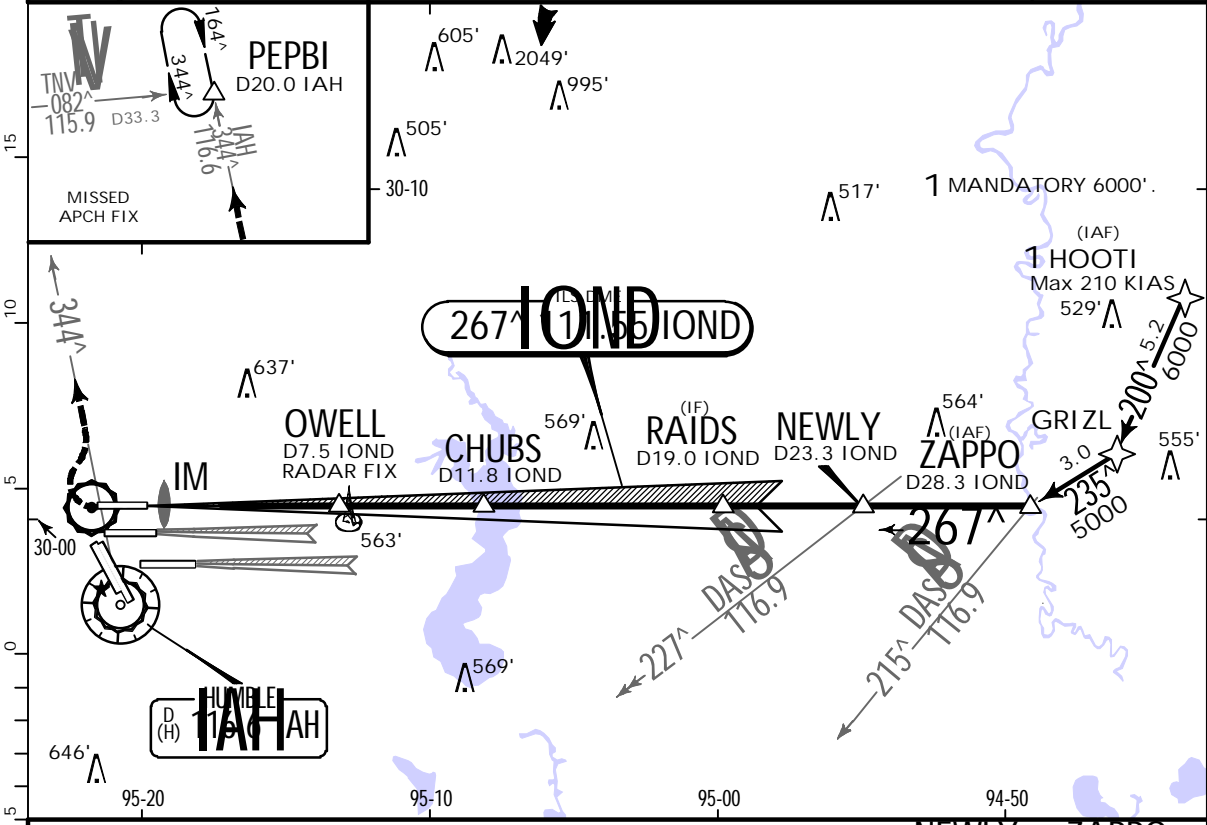
JEPPESEN

19 APR 19
Eff. 25 Apr. **(71-6A)**

HOUSTON, TEXAS

ILS Rwy 26R CAT II & III

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Ground Rwys 15L/33R, 15R/33L
	124.05	West 124.35	East 120.05	Rwy 8L/26R 120.725	Rwy 8R/26L 125.35	Rwy 9/27 135.15	127.3	118.575	121.7
	LOC 111.55	Final Apch Crs 267 [^]	GS OWELL 2000 [^] (1905 ['])	CAT III ILS Refer to Minimums	CAT II ILS RA 99 ['] DA(H) 195 ['] (100 ['])		Apt Elev 96 ['] TDZE 95 [']		<p>MSA IAH VOR</p>
<p>MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' outbound on IAH VOR R-344 to PEPBI INT/D20.0 IAH and hold.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>DME required. From HOOTI: RNAV 1-GPS required.</p> <p>1. Special Aircrew and Acft Certification Required. 2. Simultaneous approach authorized with Rwys 26L and 27.</p>									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	600 [']	3000 [']	IAH	PEPBI
GS	3.00 [^]	372	478	531	637	849		↑	RT	116.6	

TERPS.		STRAIGHT-IN LANDING RWY 26R	
CAT III ILS		CAT II ILS RA 99 ['] DA(H) 195 ['] (100 ['])	
RVR 6		1 RVR 12	

1 RVR 10 authorized with specific OPSPEC, MSPEC, or LOA approval and use of Autoland or HUD to touchdown.

KIAH/IAH

GEORGE BUSH

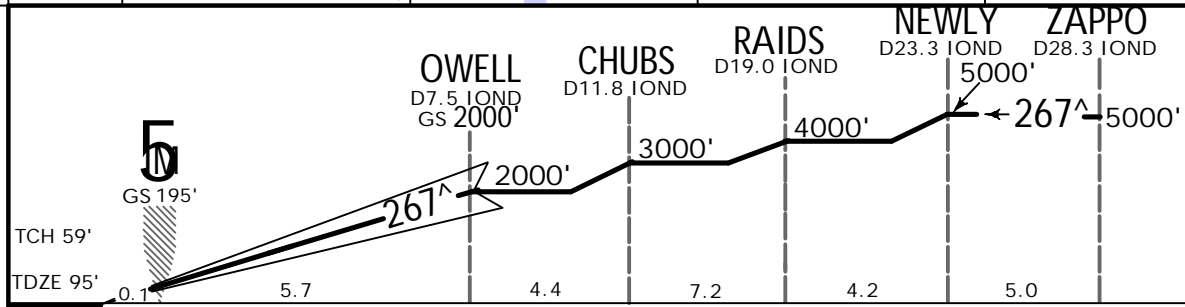
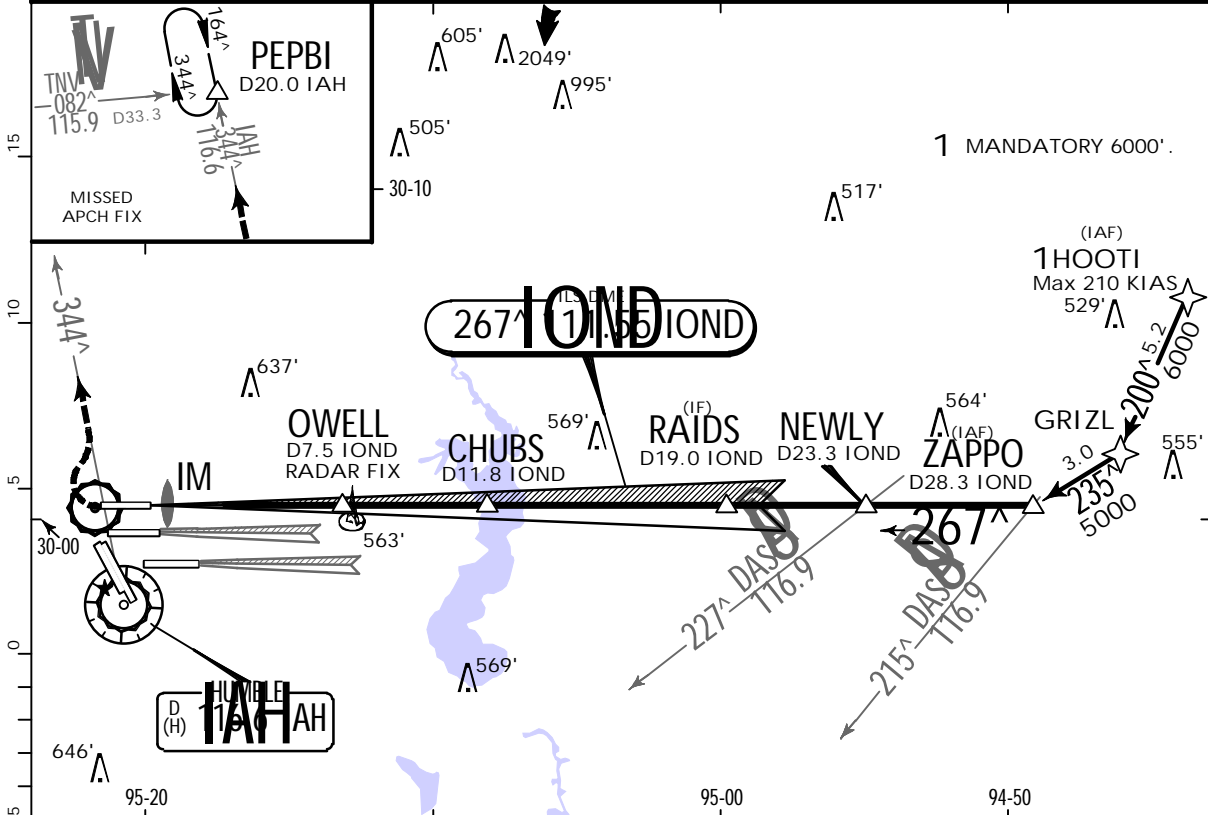
INTERCONTINENTAL/HOUSTON

JEPPESSEN
19 APR 19
Eff. 25 Apr. (71-6B)

HOUSTON, TEXAS

ILS Rwy 26R SA CAT I

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	120.725	125.35	135.15	127.3	118.575	121.7
LOC 111.55	Final Apch Crs 267 [^]		GS OWELL 2000' (1905')	SA CAT I ILS RA 157'		Apt Elev 96'		<p>MSA IAH VOR</p>
MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' outbound on IAH VOR R-344 to PEPBI INT/D20.0 IAH and hold.								
Ait Set: INCHES				Trans level: FL 180		Trans alt: 18000'		
DME required. From HOOTI: RNAV 1-GPS required.								
1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwys 26L and 27.								



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	600'	3000'	IAH on 116.6	PEPBI R-344
GS	3.00 [^]	372	478	531	637	849					

TERPS. STRAIGHT-IN LANDING RWY 26R
1 SA CAT I ILS
RA 157'
DA(H) 245' (150')

RVR 14

1 Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

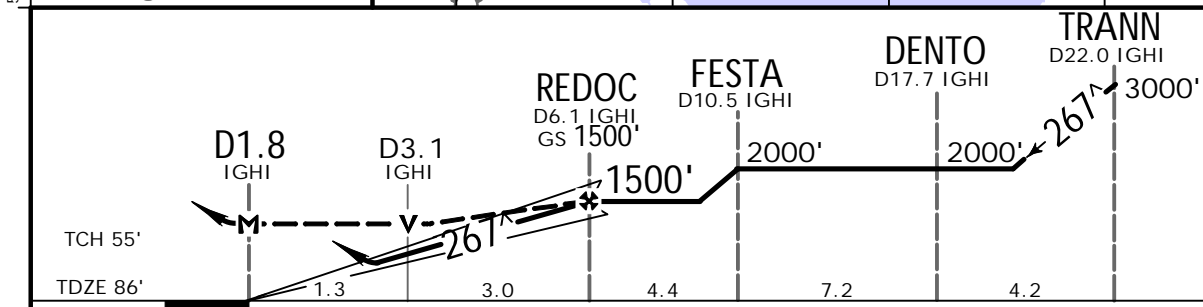
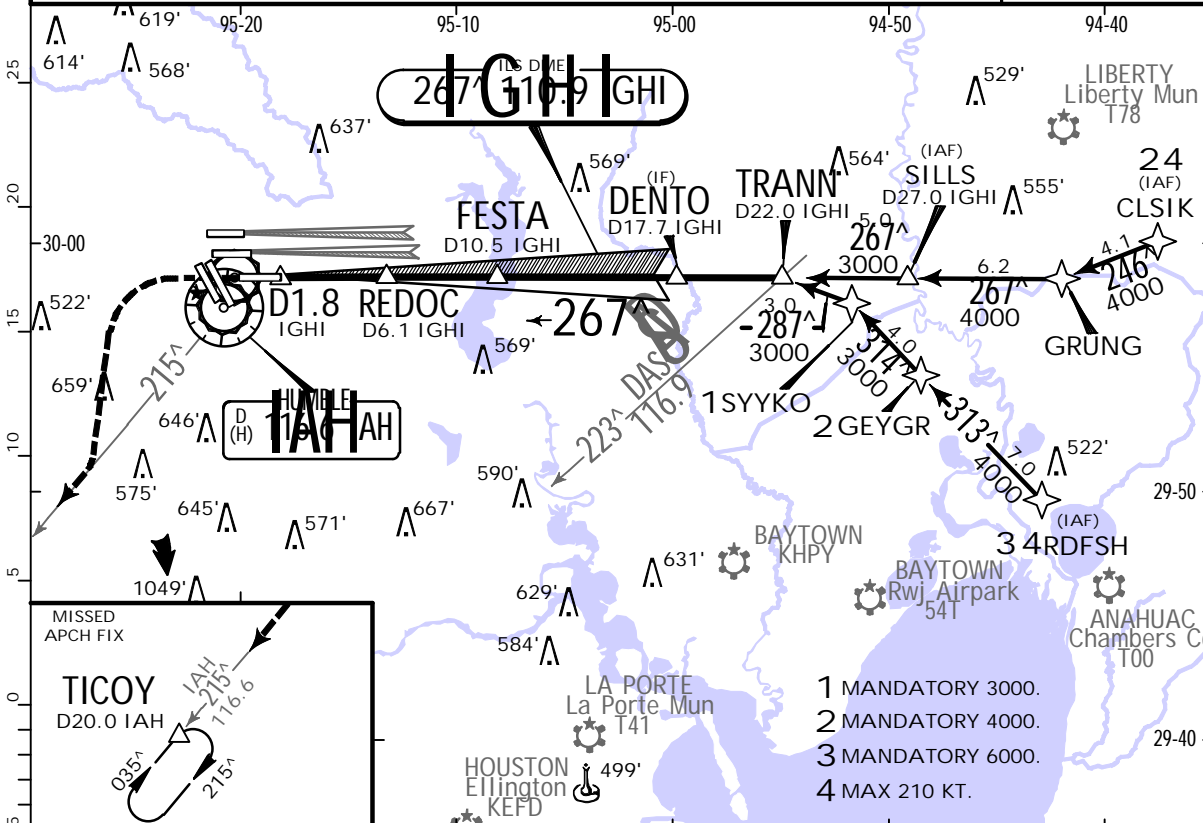
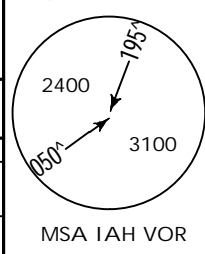


29 NOV 19 (71-7).Eff.5.Dec.

HOUSTON, TEXAS

ILS or LOC Rwy 27

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground		
	124.05	West 124.35	East 120.05	Rwy 9/27 135.15	Rwy 8R/26L 125.35	Rwy 8L/26R 120.725	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7	
	LOC IGHI 110.9	Final Apch Crs 267 [^]		GS REDOC 1500' (1414')	ILS DA(H) 286' (200')		Apt Elev 96'			
	MISSED APCH: Climb to 560' then climbing LEFT turn to 3000' outbound on IAH VOR R-215 to TICOY/D20.0 IAH and hold.							TDZE 86'		
	Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
DME required for LOC only. From CLSIK, RDFSH: RNAV 1-GPS required. RNAV 1-GPS and RADAR required for procedure entry.										
1. Simultaneous approach authorized with Rwy 26L/R. 2. VGSI and ILS glidepath not coincident (VGSI angle 3.00 [^] /TCH 70').										



Gnd speed-Kts	70	90	100	120	140	160	ALSFI-II PAPI	560'	3000'	IAH 116.6	TICOY
GS	3.00 [^]	372	478	531	637	849		↑	LT	on R-215	
MAP at D1.8 IGH I or REDOC to MAP	4.3	3:41	2:52	2:35	2:09	1:51	1:37				

TERPS AMEND 11B 5 DEC 2019	.TERPS.				STRAIGHT-IN LANDING RWY 27			
	ILS		LOC (GS out)		ILS		LOC (GS out)	
	DA(H) 286' (200')		MDA(H) 560' (474')		DA(H) 286' (200')		MDA(H) 560' (474')	
	FULL	TDZ/CL out	ALS out	FULL	TDZ/CL out	ALS out	FULL	TDZ/CL out
A			RVR 24 or 1/2			RVR 55 or 1		
B								
C	RVR 18 or 1/2	1 RVR 24 or 1/2	RVR 40 or 3/4					
D				RVR 50 or 1				1 3/8

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

29 NOV 19
Eff. 5 Dec.

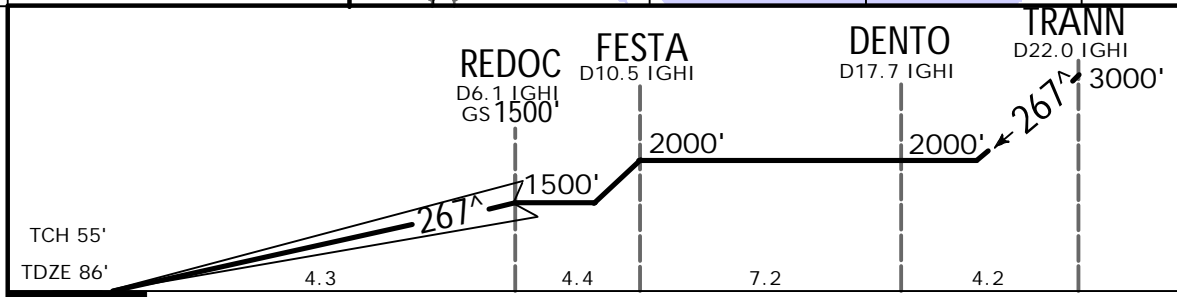
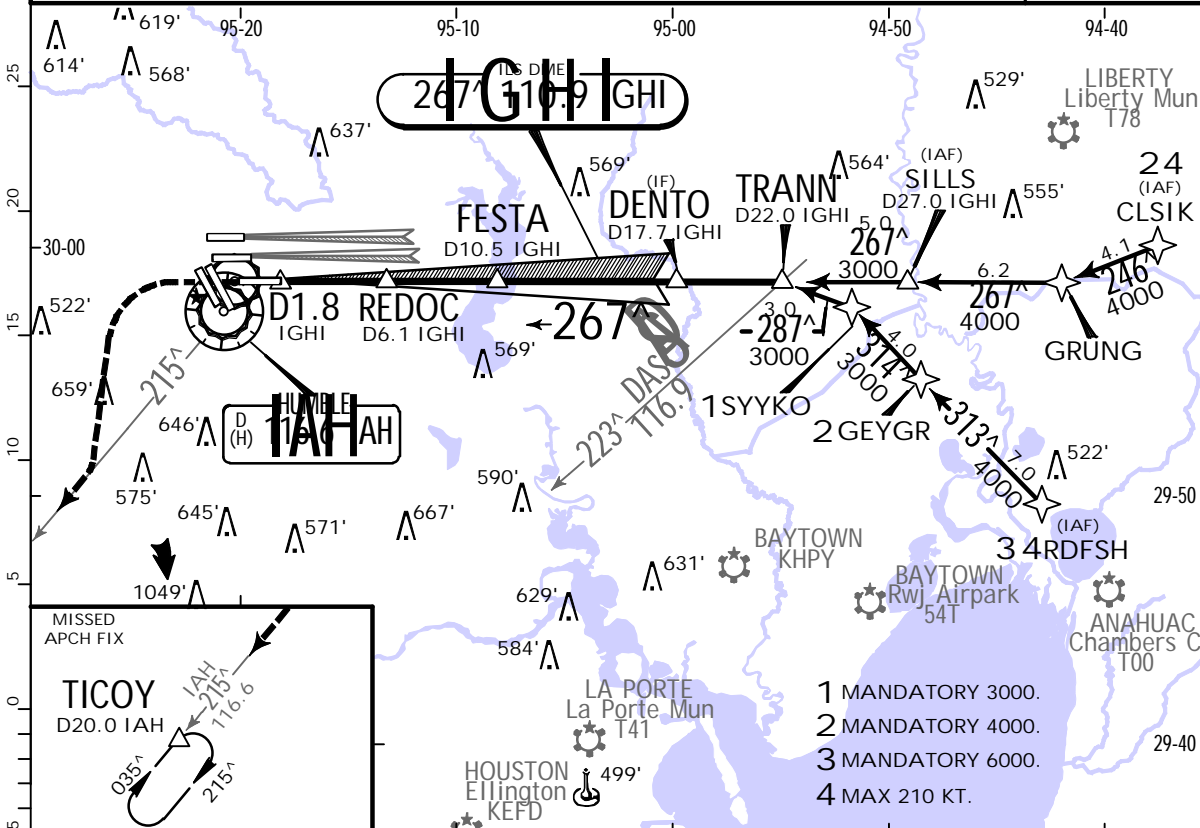
JEPPesen

71-7A

HOUSTON, TEXAS

ILS Rwy 27 CAT II & III

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
	124.05	West 124.35	East 120.05	Rwy 9/27 135.15	Rwy 8R/26L 125.35	Rwy 8L/26R 120.725	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7
	LOC IGHI 110.9	Final Apch Crs 267 [^]	GS REDOC 1500' (1414')	CAT III ILS Refer to Minimums	CAT II ILS RA 101' DA(H)186' (100')		Apt Elev 96' TDZE 86'		
<p>MISSED APCH: Climb to 560' then climbing LEFT turn to 3000' outbound on IAH VOR R-215 to TICOY/D20.0 IAH and hold.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>DME required for LOC only. From CLSIK, RDFSH: RNAV 1-GPS required. RNAV 1-GPS and RADAR required for procedure entry.</p> <p>1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwy 26L/R. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 70').</p>									



Gnd speed-Kts	70	90	100	120	140	160		560'	3000'	IAH	TICOY
GS	3.00 [^]	372	478	531	637	849		↑	LT	116.6	

TERPS.		STRAIGHT-IN LANDING RWY 27	
CAT III ILS		CAT II ILS RA 101' DA(H) 186' (100')	
RVR 6		1 RVR 12	

1 RVR 10 authorized with specific OPSPEC, MSPEC, or LOA approval and use of Autoland or HUD to touchdown.

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

29 NOV 19
Eff. 5. Dec.

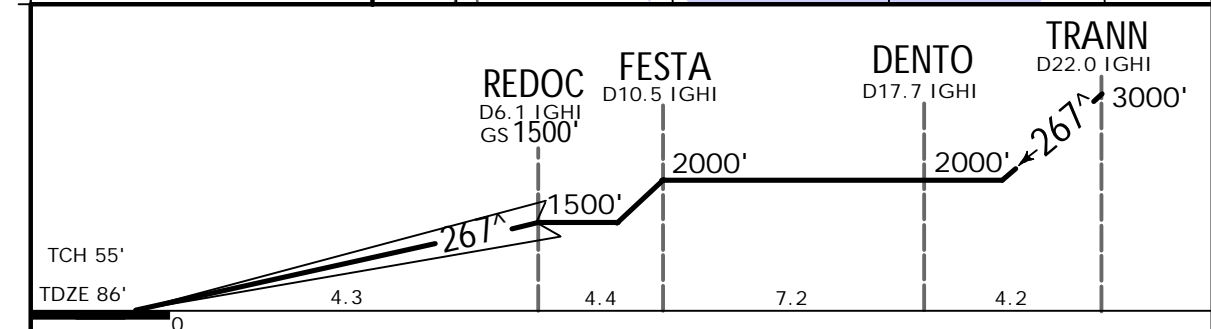
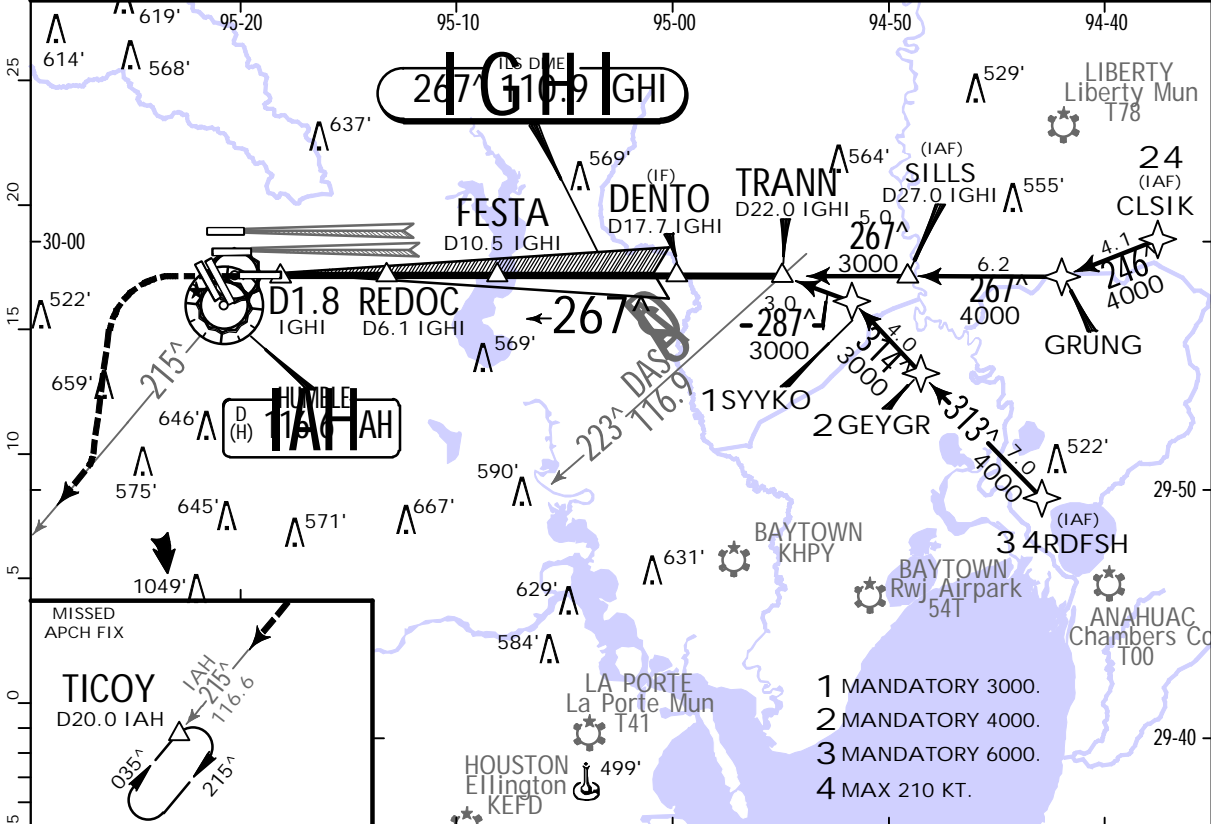
JEPPesen

71-7B

HOUSTON, TEXAS

ILS Rwy 27 SA CAT I

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
	124.05	West 124.35	East 120.05	Rwy 9/27 135.15	Rwy 8R/26L 125.35	Rwy 8L/26R 120.725	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7
	LOC IGHI 110.9	Final Apch Crs 267 [^]		GS REDOC 1500' (1414')	SA CAT I ILS RA 104' DA(H) 236' (150')		Apt Elev 96' TDZE 86'	<p>MSA IAH VOR</p>	
<p>MISSED APCH: Climb to 560' then climbing LEFT turn to 3000' outbound on IAH VOR R-215 to TICOY/D20.0 IAH and hold.</p>									
<p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p>									
<p>DME required for LOC only. From CLSIK, RDFSH: RNAV 1-GPS required. RNAV 1-GPS and RADAR required for procedure entry.</p>									
<p>1. Special Aircrew and Aircraft Certification Required. 2. Simultaneous approach authorized with Rwy 26L/R. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 70').</p>									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	560'	3000'	IAH R-215	TICOY
GS	3.00 [^]	372	478	531	637	849					

TERPS. STRAIGHT-IN LANDING RWY 27
 1 SA CAT I ILS
 RA 104'
 DA(H) 236' (150')

RVR 14

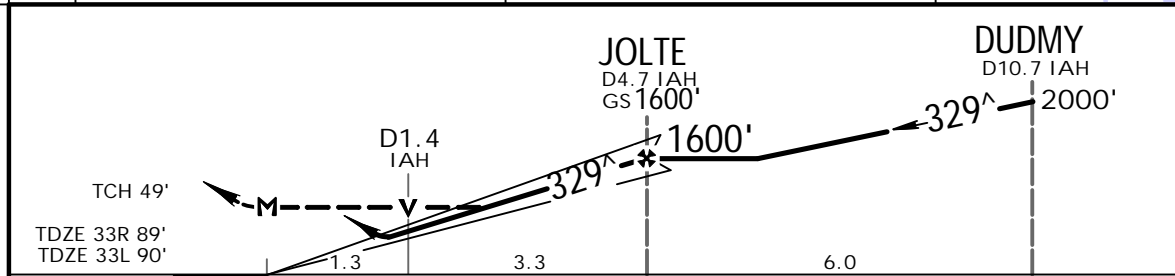
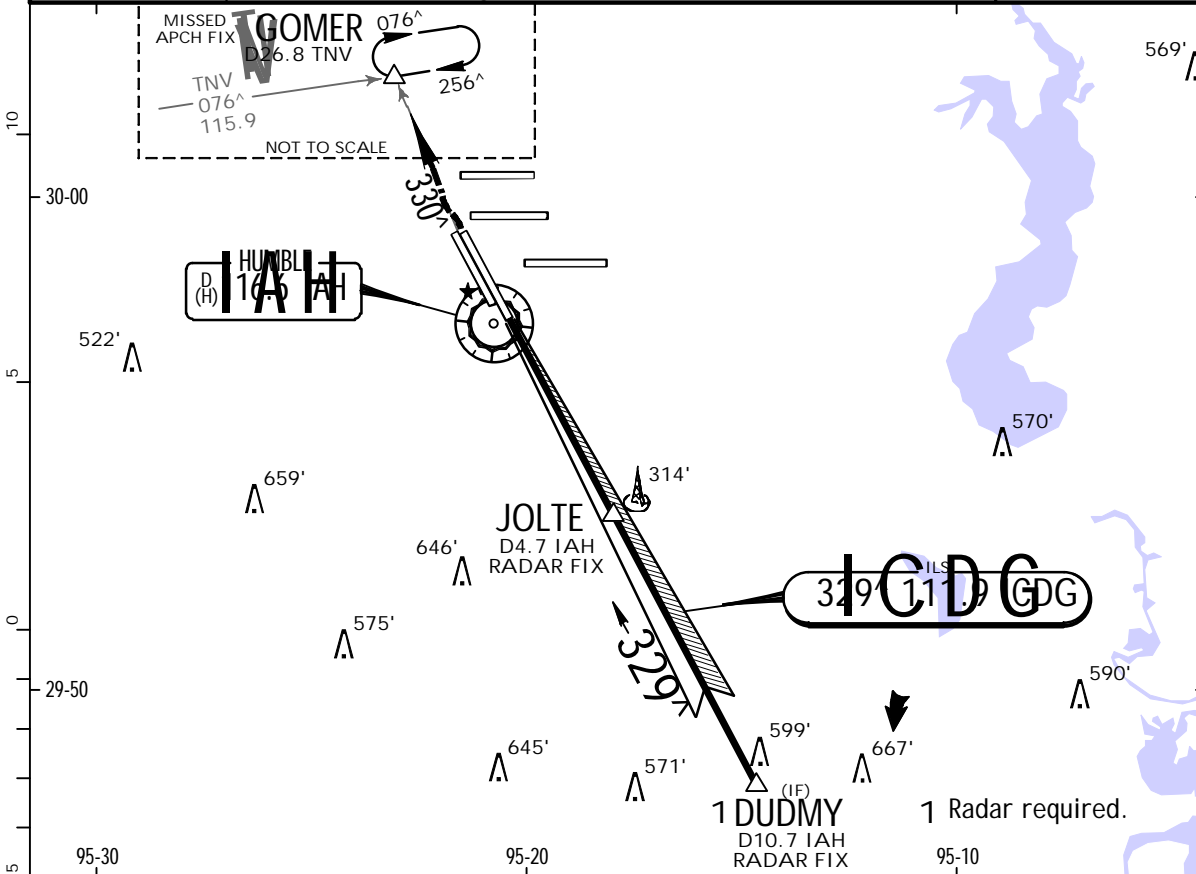
1 Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

KIAH/IAH
 GEORGE BUSH
 INTERCONTINENTAL/HOUSTON



HOUSTON, TEXAS
 ILS or LOC Rwy 33R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwys 15L/33R, 15R/33L	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27
	124.05	124.35	120.05	127.3	125.35	120.72	135.15	121.7	118.575
	LOC ICDG 111.9	Final Apch Crs 329 [^]	GS JOLTE 1600' (1511')	ILS DA(H) 289' (200')	Apt Elev 96'		TDZE 89'		
MISSED APCH: Climb to 2000' outbound on IAH VOR R-330 to GOMER INT/D26.8 TNV and hold.									
Alt Set: INCHES Trans level: FL 180								Trans alt: 18000'	
1. DME or Radar required. 2. DME from IAH VOR. Simultaneous reception of ICDG and IAH DME required. 3. PAPI-R on Rwy 33L.								MSA IAH VOR	



Gnd speed-Kts	70	90	100	120	140	160	MALSR	2000'	IAH on 116.6 R-330	GOMER
GS	3.00 [^]	372	478	531	637	743				
JOLTE to MAP	4.6	3:57	3:04	2:46	2:18	1:58	1:43			

TERPS	STRAIGHT-IN LANDING RWY 33R				SIDESTEP LANDING RWY 33L	
	ILS DA(H) 289' (200')		LOC (GS out) MDA(H) 540' (451')		MDA(H) 540' (450')	
	FULL		RAIL/ALS out		RAIL/ALS out	
	A			RVR 24 or 1/2	RVR 50 or 1	1
	B					
C	1 RVR 24 or 1/2	RVR 40 or 3/4	RVR 45 or 7/8	1 3/8	1 1/2	
D					2	

1 RVR 18 authorized with the use of Flight Director or Autopilot or HUD to DA.
 CHANGES: Minimums, TDZE. | JEPPesen, 1997, 2016. ALL RIGHTS RESERVED.

TERPS AMEND 13A 23 JUN 2016

KIAH/IAH

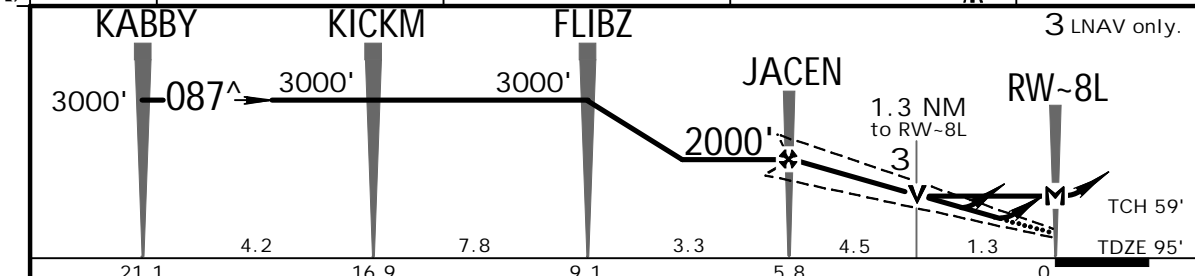
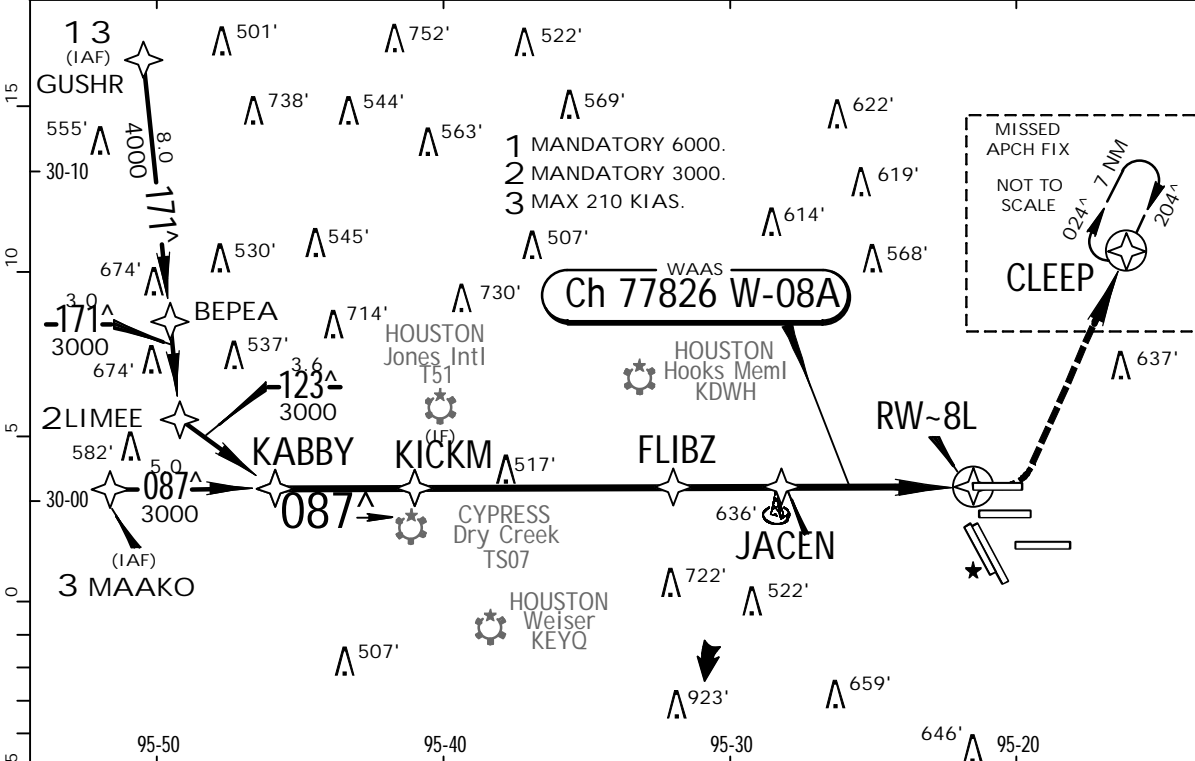
GEORGE BUSH
INTERCONTINENTAL/HOUSTON



16 NOV 18 (72-1)

HOUSTON, TEXAS RNAV (GPS) Z Rwy 8L

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.72	125.35	135.15	127.3	118.575	121.7
	WAAS Ch 77826 W-08A	Final Apch Crs 087°	Minimum Alt JACEN 2000' (1905')	LPV DA(H) 295' (200')	Apt Elev 96' TDZE 95'				
MISSED APCH: Climb to 580', then climbing LEFT turn to 4000' direct CLEEP and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. Simultaneous approach authorized with Rwy 8R and Rwy 9. 5. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations.									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	580'	4000'	D →	CLEEP
Glide Path Angle	3.00°	372	478	531	637	743		849	↑		
LPV, LNAV/VNAV: MAP at DA											
LNAV: MAP at RW-8L											

TERPS.	LPV		STRAIGHT-IN LANDING RWY 8L				1 LNAV	
	DA(H) 295' (200')		LNAV/VNAV				MDA(H) 580' (485')	
	TDZ/CL out		ALS out		DA(H) 486' (391')		ALS out	
	ALS out		ALS out		ALS out		ALS out	
A	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 40 or 3/4	RVR 60 or 1/4	RVR 24 or 1/2	RVR 50 or 1	
B								
C								
D								

1 Not authorized during simultaneous operations.
CHANGES: None. | JEPPESEN, 2003, 2017. ALL RIGHTS RESERVED.

KIAH/IAH

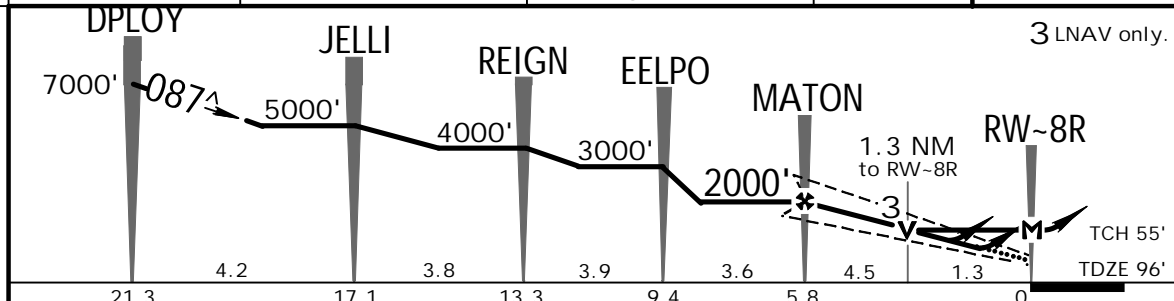
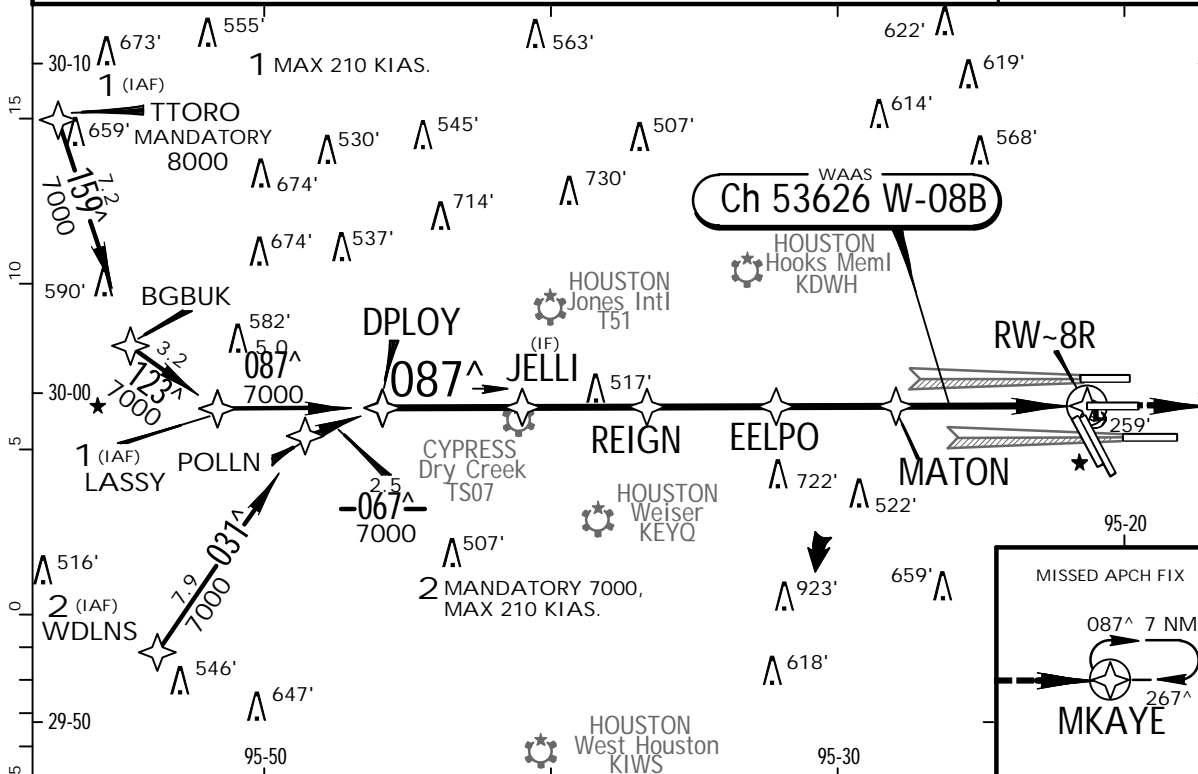
GEORGE BUSH
INTERCONTINENTAL/HOUSTON



16 NOV 18 **(72-2)**

HOUSTON, TEXAS RNAV (GPS) Z Rwy 8R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	125.35	120.72	135.15	127.3	118.575	121.7
	WAAS Ch 53626 W-08B		Final Apch Crs 087[^]	Minimum Alt MATON 2000' (1904')	LPV DA(H) 296' (200')	Apt Elev 96' TDZE 96'			
MISSED APCH: Climb to 3000' direct MKAYE and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. VGSI and RNAV glidepath not coincident. 5. Simultaneous approach authorized with Rwy 8L and Rwy 9. 6. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations.									



Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI 	3000' 		MKAYE	
Glide Path Angle	3.00 [^]	372	478	531	637	743					849
LPV, LNAV/VNAV: MAP at DA											
LNAV: MAP at RW-8R											

TERPS.	LPV		STRAIGHT-IN LANDING RWY 8R		1 LNAV	
	DA(H) 296' (200')		LNAV/VNAV DA(H) 421' (325')		MDA(H) 580' (484')	
	TDZ/CL out		RAIL/ALS out		RAIL/ALS out	
	A	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 32 or 5/8	RVR 60 or 1 1/8
B						RVR 50 or 1
C						RVR 50 or 1
D						1 3/8

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

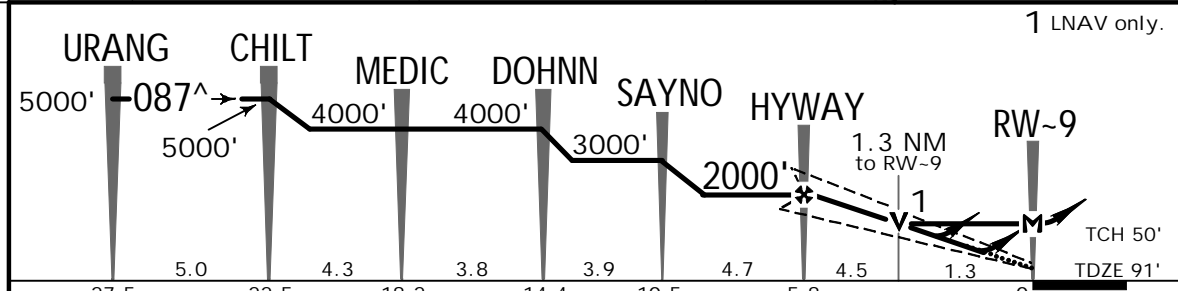
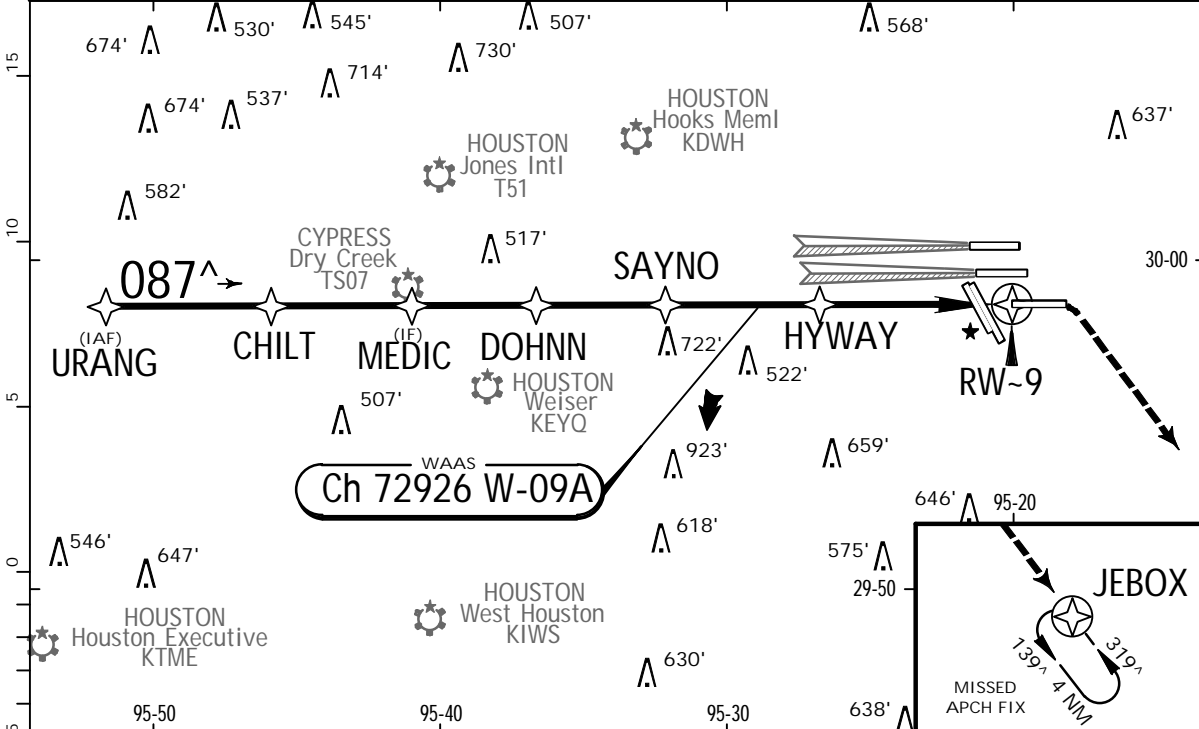


24 JAN 20 (72-3) .Eff.30.Jan.

HOUSTON, TEXAS

RNAV (GPS) Z Rwy 9

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 9/27	Rwy 8R/26L	Rwy 8L/26R	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	135.15	125.35	120.72	127.3	118.575	121.7
	WAAS Ch 72926 W-09A		Final Apch Crs 087 [^]	HYWAY 2000' (1909')		LPV DA(H) 291' (200')	Apt Elev 96' TDZE 91'		<p>3100 MSA RW-9</p>
MISSED APCH: Climb to 580', then climbing RIGHT turn to 3000' direct JEBOX and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. VGSI and RNAV glidepath not coincident. 5. Simultaneous approach authorized with Rwy 8L/R. 6. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations.									



Gnd speed-Kts	70	90	100	120	140	160	MALSRS	580'	3000'	→	JEBOX
Glide Path Angle	3.00 [^]	372	478	531	637	743	PAPI	↑	↻	↻	
LPV, LNAV/VNAV: MAP at DA											
LNAV: MAP at RW-9											

TERPS	STRAIGHT-IN LANDING RWY 9					
	LPV DA(H) 291' (200')	LNAV/VNAV DA(H) 525' (434')		2 LNAV MDA(H) 580' (489')		
	RAIL/ALS out		RAIL/ALS out		RAIL/ALS out	
	A	1			RVR 24 or 1/2	RVR 50 or 1
B	RVR 24 or 1/2	RVR 40 or 3/4	RVR 50 or 1	1 1/2	RVR 50 or 1	1 3/8
C						
D						
1 RVR 18 with Flight Director or Autopilot or HUD to DA.		2 Not authorized during simultaneous operations.				

TERPS AMEND 5B 07 DEC 2017

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

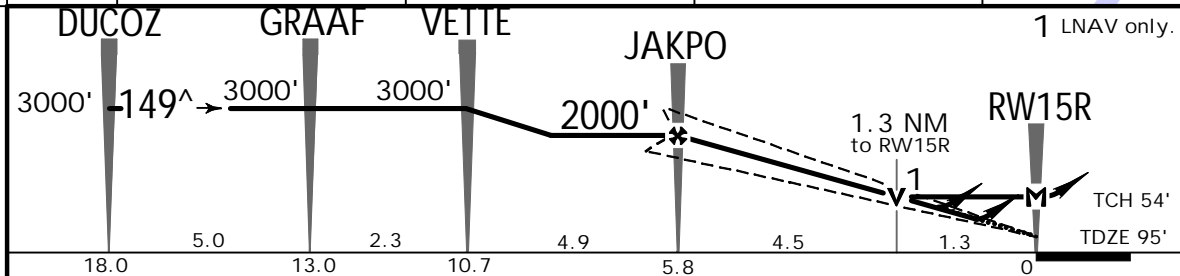
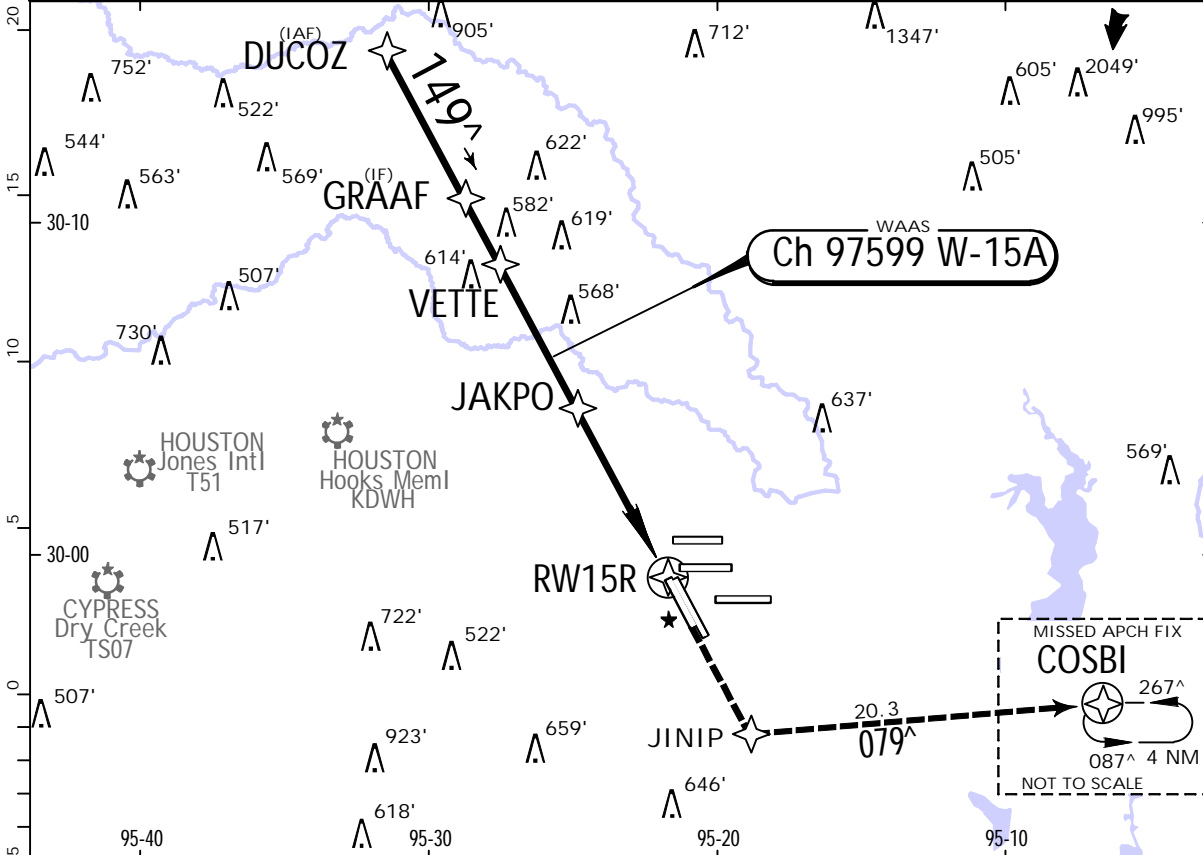


24 JAN 20 (72-4) .Eff.30.Jan.

HOUSTON, TEXAS

RNAV (GPS) Rwy 15R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	124.05	West 124.35	East 120.05	Rwys 15R/33L, 15L/33R	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15R/33L, 15L/33R	Rwys 8L/26R, 8R/26L, 9/27
	WAAS Ch 97599 W-15A	Final Apch Crs 149^	JAKPO 2000' (1905')	LPV DA(H) 295' (200')	Apt Elev 96'	TDZE 95'		3100	
MISSED APCH: Climb to 2000' direct JINIP and LEFT turn on track 079^ to COSBI and hold.								MSA RW15R	
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
RADAR required for procedure entry. RNP Apch.									
1. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C or above 54°C. 2. VGSI and RNAV glidepath not coincident (VGSI angle 3.00°/TCH 71').									



Gnd speed-Kts	70	90	100	120	140	160	MALSR 2000'	PAPI	JINIP
Glide Path Angle	3.00^	372	478	531	637	743			
LPV, LNAV/VNAV: MAP at DA									
LNAV: MAP at RW15R									

TERPS AMEND 2C 30 JAN 2020	.TERPS.		STRAIGHT-IN LANDING RWY 15R				LNAV	
	LPV DA(H) 295' (200')		LNAV/VNAV DA(H) 460' (365')		LNAV MDA(H) 580' (485')			
	TDZ/CL out RAIL/ALS out		RAIL/ALS out		RAIL/ALS out			
	A	RVR 18	RVR 24	RVR 40	RVR 35	RVR 55	RVR 24 or 1/2	RVR 50 or 1
B	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 35 or 5/8	RVR 55 or 1	RVR 50 or 1	1 3/8	
C								
D								
1 RVR 18 with Flight Director or Autopilot or HUD to DA.								

KIAH/IAH

GEORGE BUSH

11 AUG 17

(72-5)



HOUSTON, TEXAS RNAV (GPS) Z Rwy 26L

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	125.35	120.72	135.15	127.3	118.575	121.7

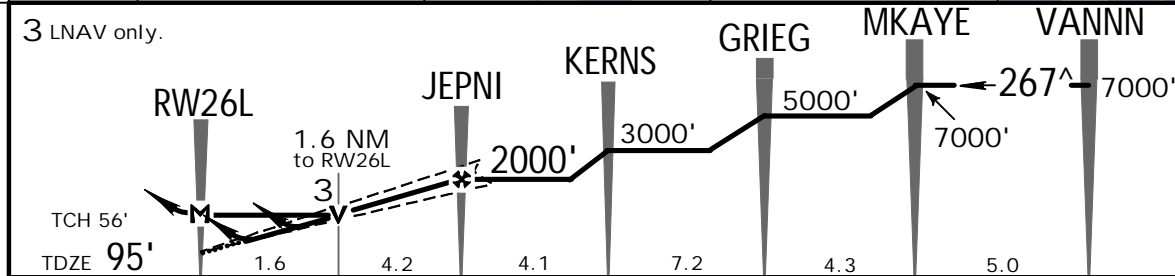
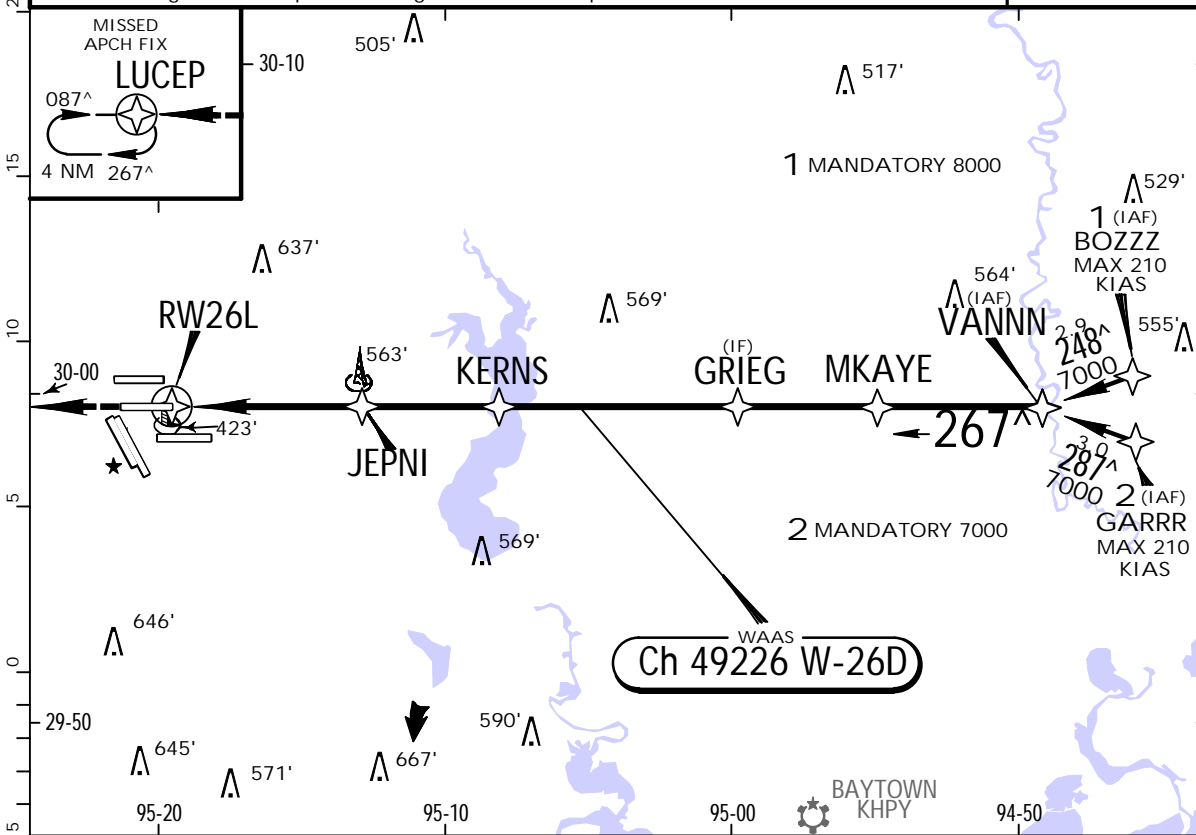
BRIEFING STRIP™

WAAS Ch 49226 W-26D	Final Apch Crs 267 [^]	Minimum Alt JEPNI 2000' (1905')	LPV DA(H) 295' (200')	Apt Elev 96' TDZE 95'	3100 MSA RW26L
---------------------------	---------------------------------------	---------------------------------------	-----------------------------	--------------------------	-----------------------

MISSED APCH: Climb to 3000' direct LUCEP and hold.

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. VGSI and RNAV glidepath not coincident. 5. Simultaneous approach authorized with Rwy 26R and Rwy 27. 6. Use of flight director or autopilot providing RNAV track guidance required during simultaneous operations.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000'	D → LUCEP
Glide Path Angle	3.00 [^]	372	478	531	637	743			
LPV, LNAV/VNAV: MAP at DA									
LNAV: MAP at RW26L									

.TERPS.		STRAIGHT-IN LANDING RWY 26L			1 LNAV	
LPV		LNAV/VNAV			1 LNAV	
DA(H) 295' (200')		DA(H) 586' (491')			MDA(H) 680' (585')	
TDZ/CL out		ALS out			ALS out	
A					RVR 24 or 1/2	RVR 55 or 1
B	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 60 or 1 1/8	1 5/8	
C					1 1/4	1 3/4
D						

TERPS AMEND 4B 17 AUG 2017

1 Procedure not authorized during simultaneous operations.

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

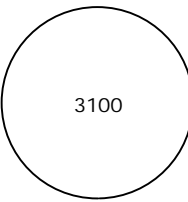
JEPPESSEN

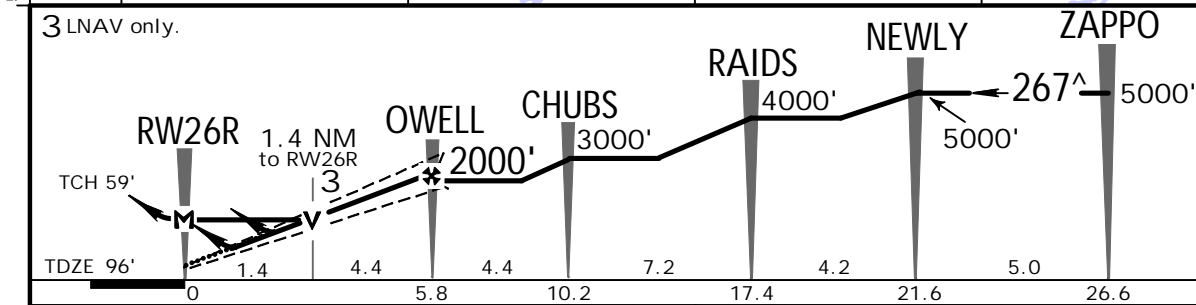
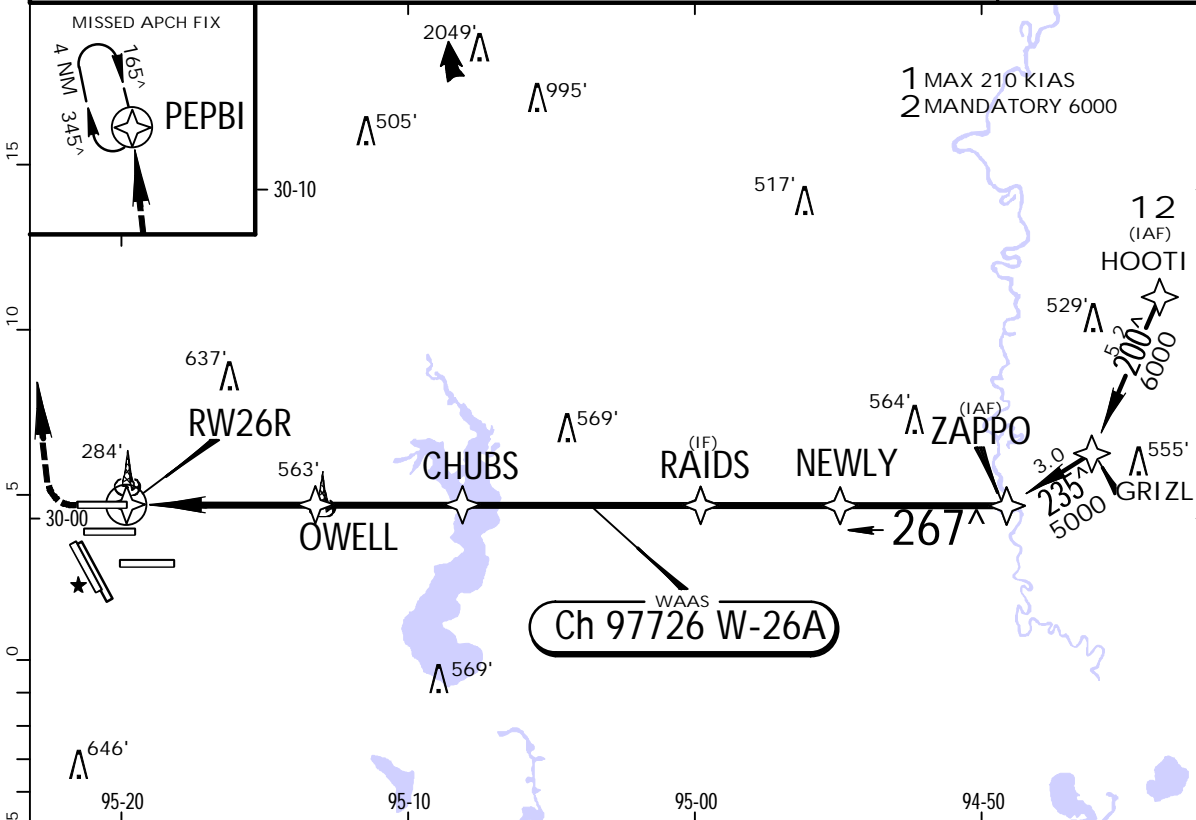
11 AUG 17



72-6

HOUSTON, TEXAS

RNAV (GPS) Z Rwy 26R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.72	125.35	135.15	127.3	118.575	121.7
	WAAS Ch 97726 W-26A	Final Apch Crs 267[^]	Minimum Alt OWELL 2000' (1904')	LPV DA(H) 296' (200')	Apt Elev 96'	TDZE 96'			
MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' direct PEPBI and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. Simultaneous approach authorized with Rwy 26L and Rwy 27. 5. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations.							MSA RW26R		



Gnd speed-Kts	70	90	100	120	140	160		600'	3000'		PEPBI	
Glide Path Angle	3.00 [^]							372	478			531
LPV, LNAV/VNAV: MAP at DA												
LNAV: MAP at RW26R												

TERPS.											
LPV			LNAV/VNAV				1 LNAV				
DA(H) 296' (200')			DA(H) 496' (400')				MDA(H) 600' (504')				
TDZ/CL out			ALS out		ALS out			ALS out		ALS out	
A											
B	RVR 18	RVR 24	RVR 40	RVR 42	1 1/4			RVR 24	RVR 55	or 1	
C	or 1/2	or 1/2	or 3/4	or 3/4				RVR 55	1 3/8		
D											

1 Procedure not authorized during simultaneous operations.

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

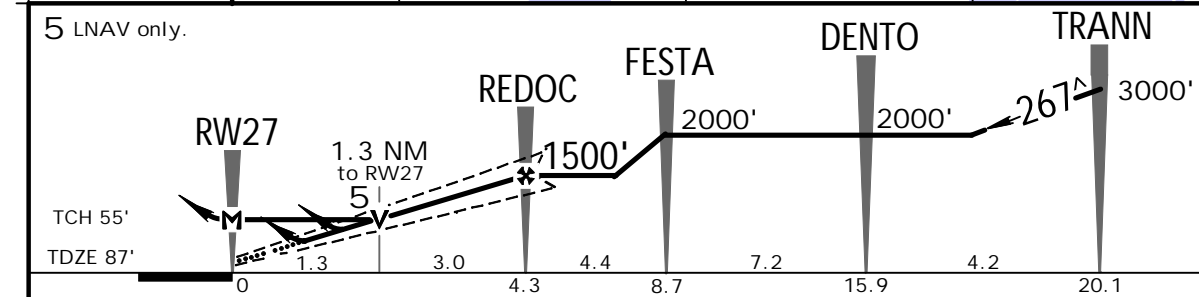
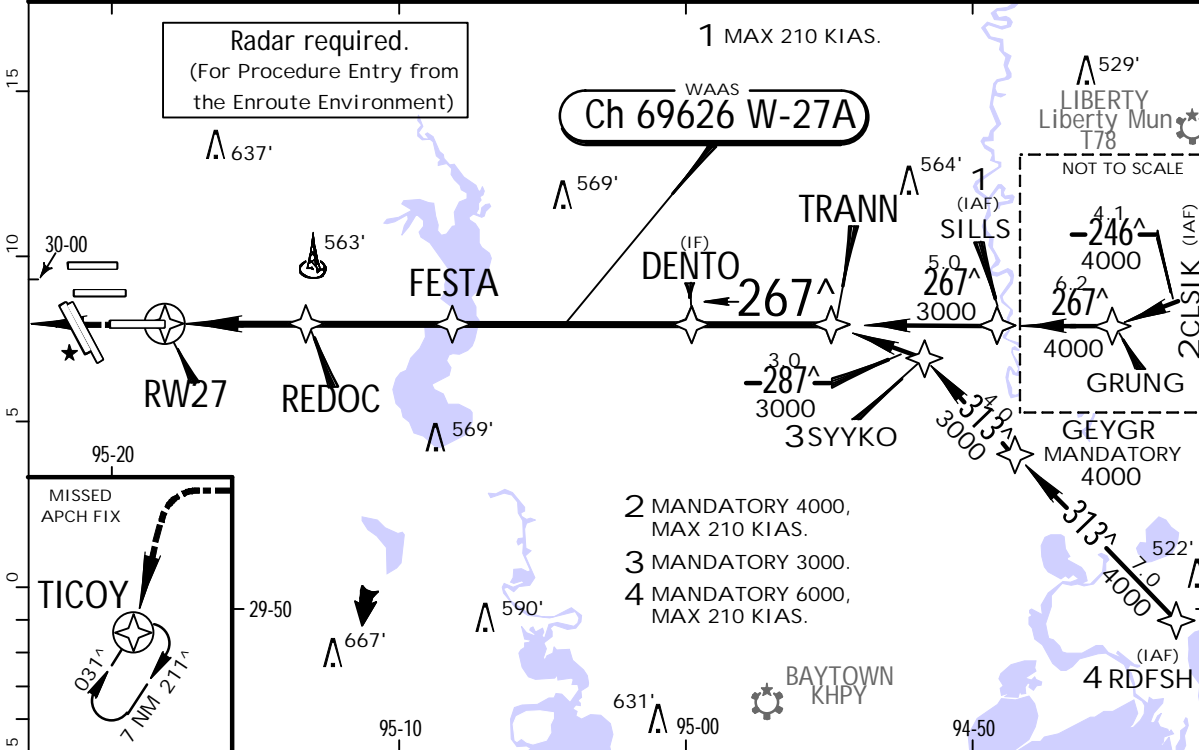


1 DEC 17 (72-7)

HOUSTON, TEXAS

RNAV (GPS) Z Rwy 27

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 9/27	Rwy 8R/26L	Rwy 8L/26R	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	135.15	125.35	120.72	127.3	118.575	121.7
	WAAS Ch 69626 W-27A		Final Apch Crs 267 [^]	Minimum Alt REDOC 1500' (1413')	LPV DA(H) 287' (200')	Apt Elev 96' TDZE 87'			
MISSED APCH: Climb to 560' then climbing LEFT turn to 3100' direct TICOY and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -2°C (29°F) or above 54°C (130°F). 2. DME/DME RNP-0.30 not authorized. 3. VGSi and RNAV glidepath not coincident (VGSi angle 3.00°/TCH 70'). 4. Simultaneous approach authorized with Rwy 26L/R. 5. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations.									



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II	560'	3100'	D	TICOY
Glide Path Angle	3.00°	372	478	531	637	743					
LPV, LNAV/VNAV: MAP at DA											
LNAV: MAP at RW27											

TERPS.			STRAIGHT-IN LANDING RWY 27				1 LNAV	
LPV DA(H) 287' (200')		LNAV/VNAV DA(H) 477' (390')		1 LNAV MDA(H) 560' (473')				
TDZ/CL out		ALS out		ALS out		ALS out		
A						RVR 24 or 1/2	RVR 50 or 1	
B	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4	RVR 45 or 7/8	1 1/4			
C						RVR 50 or 1	1 3/8	
D								

1 Not authorized during simultaneous operations. CHANGES: None. JEPPESSEN, 2001, 2017. ALL RIGHTS RESERVED.

KIAH/IAH

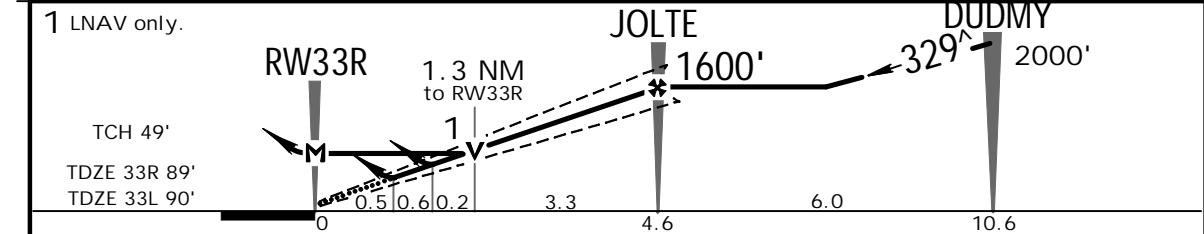
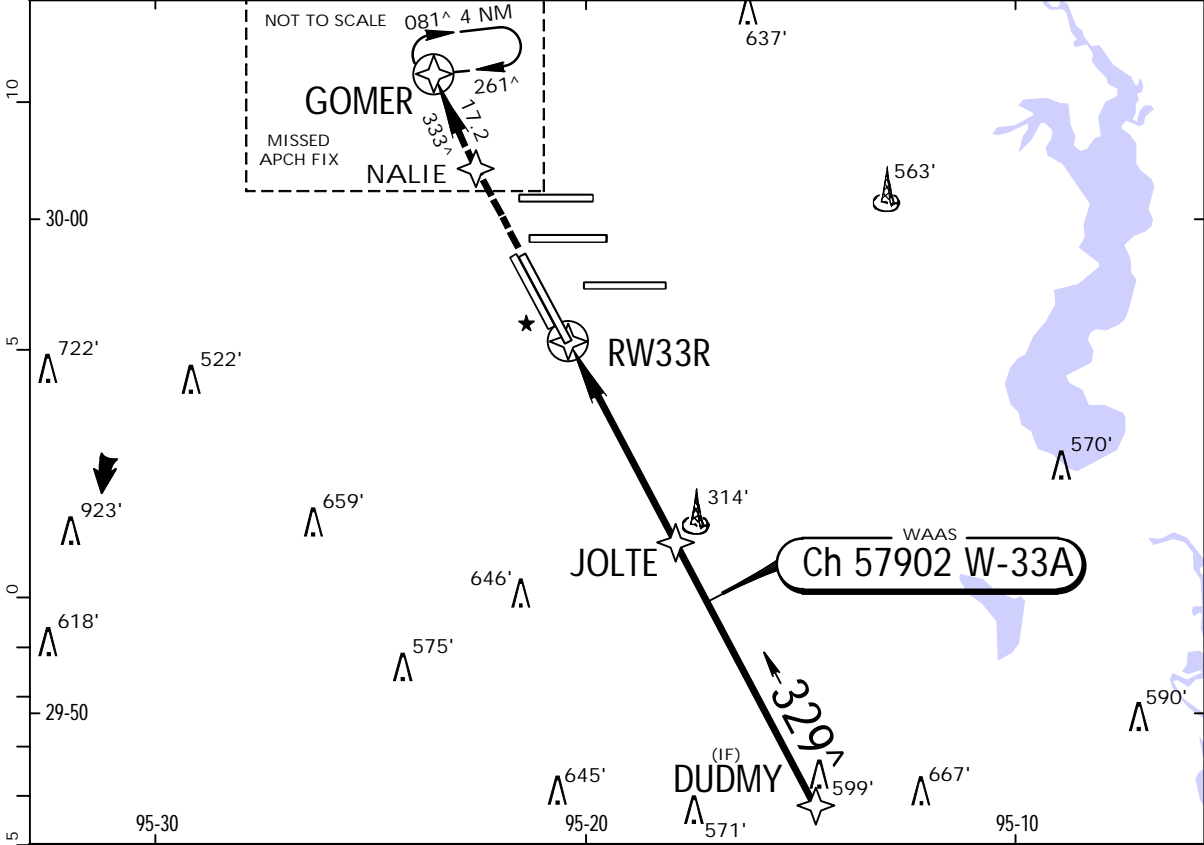
GEORGE BUSH
INTERCONTINENTAL/HOUSTON



1 DEC 17 (72-8)

HOUSTON, TEXAS RNAV (GPS) Rwy 33R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwys 15L/33R, 15R/33L	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27
	124.05	124.35	120.05	127.3	125.35	120.72	135.15	121.7	118.575
	WAAS Ch 57902 W-33A	Final Apch Crs 329 [^]	Minimum Alt JOLTE 1600' (1511')	LPV DA(H) 289' (200')	Apt Elev 96' TDZE 89'		 MSA RW33R		
MISSED APCH: Climb to 2000' direct NALIE and on track 333 [^] to GOMER and hold.									
Alt Set: INCHES			Trans level: FL 180		Trans alt: 18000'				
1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -3°C (27°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. PAPI-R on Rwy 33L.									



Gnd speed-Kts	70	90	100	120	140	160	MALSR	2000'	NALIE
Glide Path Angle	3.00 [^]	372	478	531	637	849			
LPV, LNAV/VNAV: MAP at DA									
LNAV: MAP at RW33R									

TERPS.	STRAIGHT-IN LANDING RWY 33R						SIDESTEP LANDING RWY 33L MDA(H) 540'(450')
	LPV DA(H) 289' (200')		LNAV/VNAV DA(H) 490' (401')		LNAV MDA(H) 540' (451')		
	RAIL/ALS out		RAIL/ALS out		RAIL/ALS out		
	A	1			RVR 24 or 1/2	RVR 50 or 1	1
B	RVR 24 or 1/2	RVR 40 or 3/4	RVR 45 or 7/8	1 3/8	RVR 45 or 7/8	1 3/8	1 1/2
C							
D							2
1 RVR 18 with use of Flight Director or Autopilot or HUD to DA.							

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON



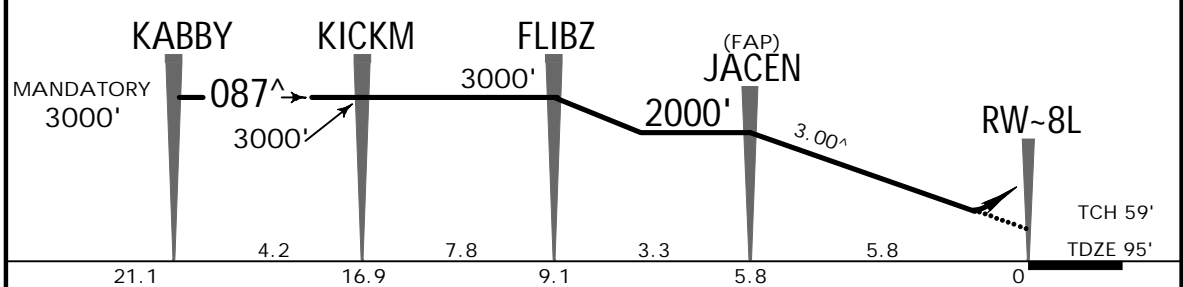
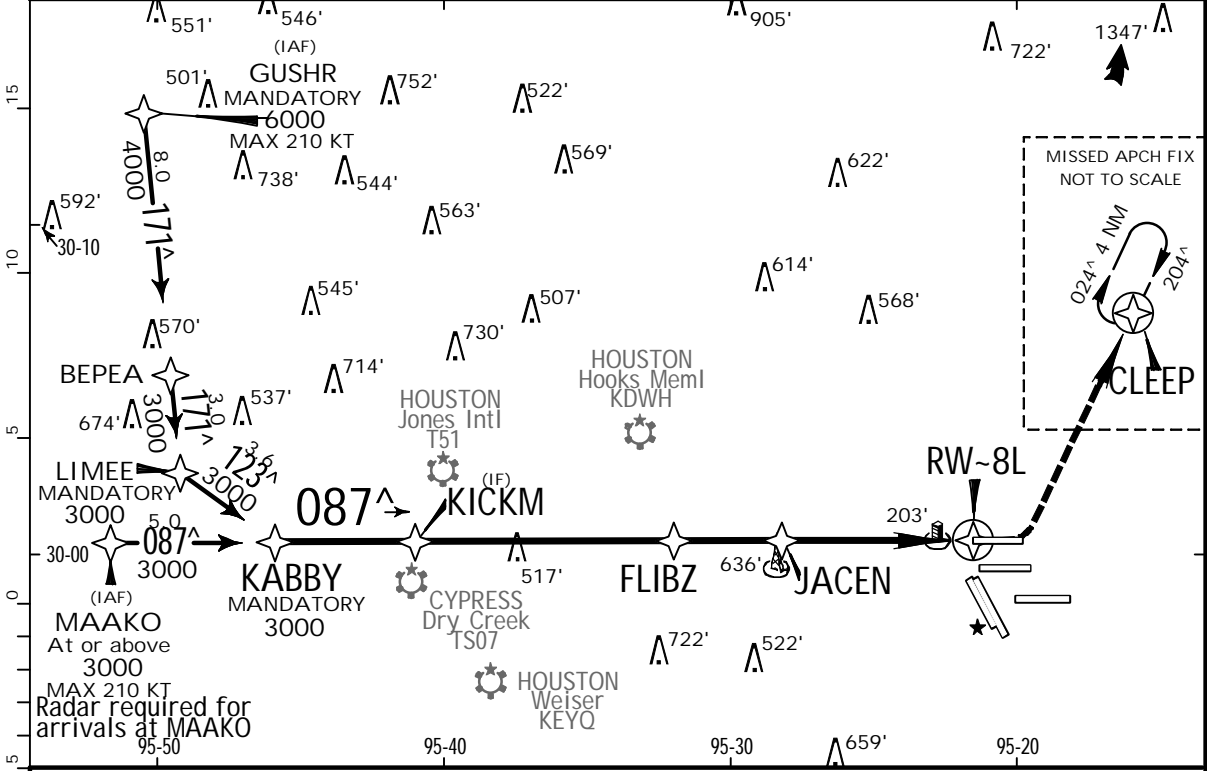
5 OCT 18

(72-20) .Eff.11.Oct.

HOUSTON, TEXAS

RNAV (RNP) Y Rwy 8L

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 8L/26R	Rwy 8R/26L	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8L/26R, 8R/26L, 9/27	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	120.725	125.35	135.15	127.3	118.575	121.7
	RNAV	Final Apch Crs 087[^]		Minimum Alt JACEN 2000' (1905')	RNP 0.30 DA(H) 510' (415')	Apt Elev 96' TDZE 95'			
MISSED APCH: Climb to 580' then climbing LEFT turn to 4000' direct CLEEP and hold.									
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. AUTHORIZATION REQUIRED. 2. GPS required. 3. Simultaneous approach authorized. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. For uncompensated Baro-VNAV systems, procedure not authorized below -3°C (27°F) or above 54°C (130°F).									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	580'	4000'		CLEEP
Glide Path Angle	3.00 [^]	372	478	531	637	849					
MAP at DA											

.TERPS. STRAIGHT-IN LANDING RWY 8L
RNP 0.30
DA(H) 510' (415')
ALS out

A		
B		
C	RVR 45 or 7/8	1 3/8
D		

TERPS AMEND 03 SEP 2018

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON



5 OCT 18

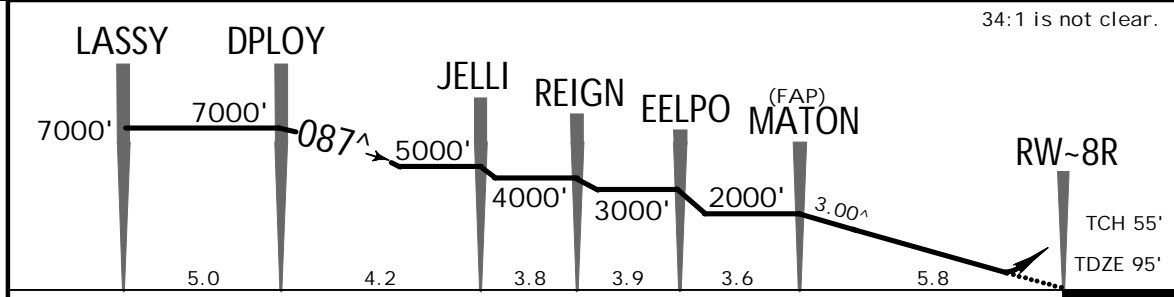
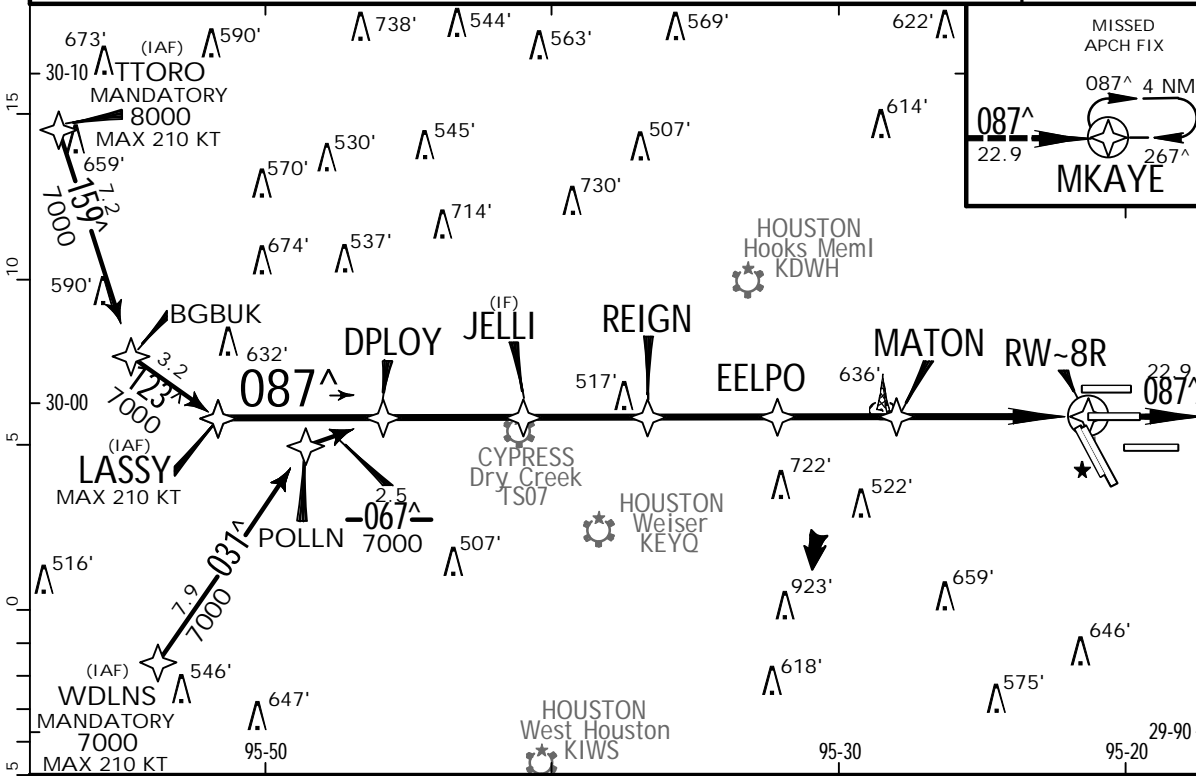
72-21

.Eff.11.Oct.

HOUSTON, TEXAS

RNAV (RNP) Y Rwy 8R

BRIEFING STRIP	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground	
		West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27
	124.05	124.35	120.05	125.35	120.725	135.15	127.3	118.575
								121.7
	RNAV	Final Apch Crs 087[^]		Minimum Alt MATON 2000' (1905')		RNP 0.13 DA(H) 383' (288')	Apt Elev 96' TDZE 95'	
<p>MISSED APCH: Climb to 3000' on track 087[^] to MKAYE and hold.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>RNP AR Apch</p> <p>1. Simultaneous approach authorized. 2. For uncompensated Baro-VNAV systems, procedure not authorized below -3°C or above 54°C. 3. VGSI and RNAV glidepath not coincident (VGSI angle 3.00[^]/TCH 72').</p>								
MISSED APCH FIX								
MSA RW-8R								



Gnd speed-Kts	70	90	100	120	140	160		3000' on 087 [^] MKAYE
Glide Path Angle	3.00 [^]	372	478	531	637	849		
MAP at DA								

TERPS AMEND 1B 11 OCT 2018	.TERPS.					
	RNP 0.13 DA(H) 383' (288')		RNP 0.14 DA(H) 441' (346')		RNP 0.30 DA(H) 492' (397')	
	RAIL/ALS out		RAIL/ALS out		RAIL/ALS out	
	A					
	B	RVR 40 or 3/4	RVR 45 or 7/8	RVR 40 or 3/4	RVR 56 or 1 1/4	RVR 45 or 7/8
C						
D						

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

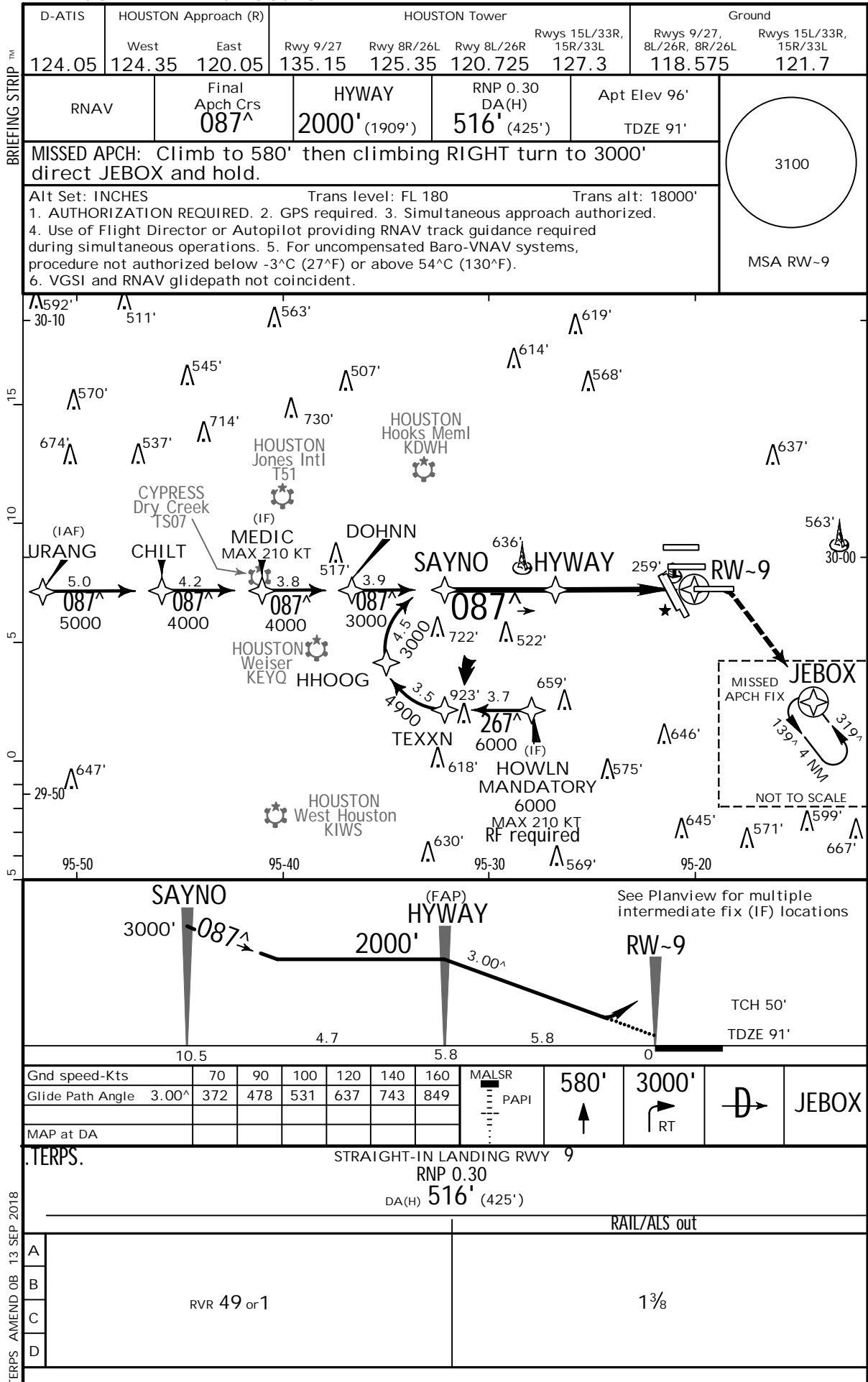
24 JAN 20

(72-22) .Eff.30.Jan.

JEPPESEN

HOUSTON, TEXAS

RNAV (RNP) Y Rwy 9



TERPS AMEND 0B 13 SEP 2018

KIAH/IAH

GEORGE BUSH

24 JAN 20

72-23 .Eff.30.Jan.

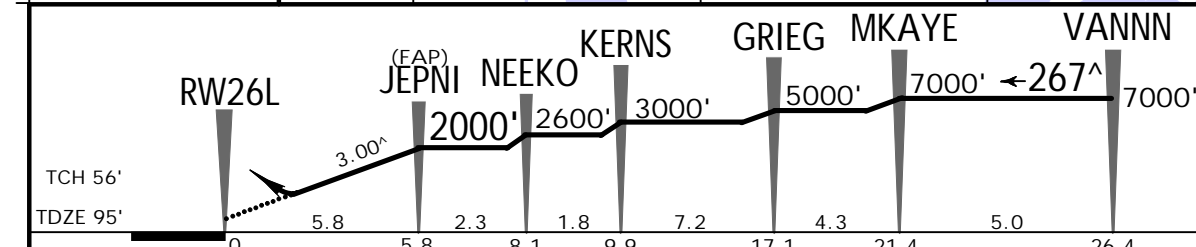
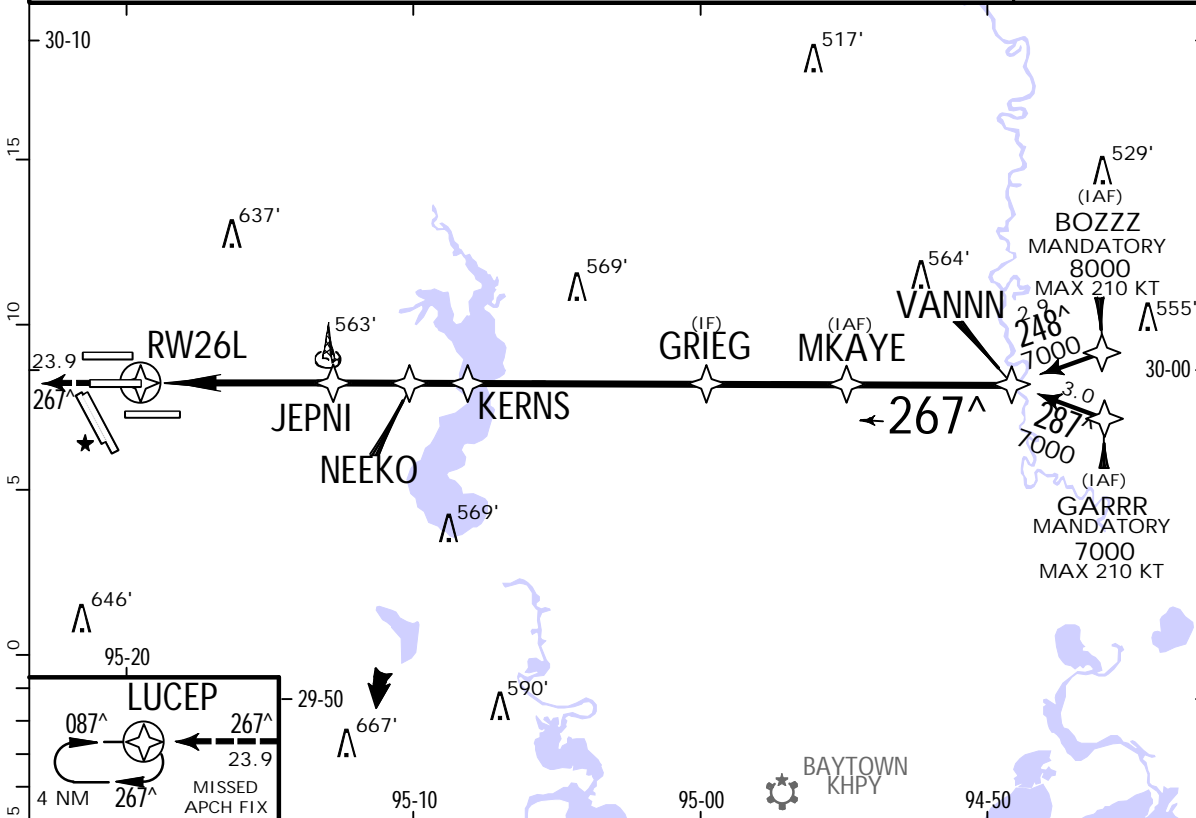
HOUSTON, TEXAS

RNAV (RNP) Y Rwy 26L

INTERCONTINENTAL/HOUSTON



BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground			
	124.05	West 124.35	East 120.05	Rwy 8R/26L 125.35	Rwy 8L/26R 120.725	Rwy 9/27 135.15	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7	
	RNAV	Final Apch Crs 267[^]		JEPNI 2000' (1905')		RNP 0.13 DA(H) 414' (319')	Apt Elev 96' TDZE 95'		<div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; margin: 0 auto;"></div> <p>3100</p> <p>MSA RW26L</p>	
	MISSED APCH: Climb to 3000' on track 267 [^] to LUCEP and hold.									
	Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'			
RNP AR Apch										
1. Simultaneous approach authorized. 2. For uncompensated Baro-VNAV systems, procedure not authorized below 3°C or above 54°C. 3. VGSI and RNAV glidepath not coincident (VGSI angle 3.00 [^] /TCH 71').										



Gnd speed-Kts	70	90	100	120	140	160		3000' ↑ on 267 [^]	LUCEP
Glide Path Angle 3.00 [^]	372	478	531	637	743	849			
MAP at DA									

TERPS AMEND OD 30 JAN 2020	STRAIGHT-IN LANDING RWY 26L				
	RNP 0.13 DA(H) 414' (319')		RNP 0.30 DA(H) 549' (454')		
	ALS out		ALS out		
	A	RVR 40 or 3/4	RVR 51 or 1	RVR 55 or 1	1 1/2
	B				
C					
D					

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

JEPPESSEN

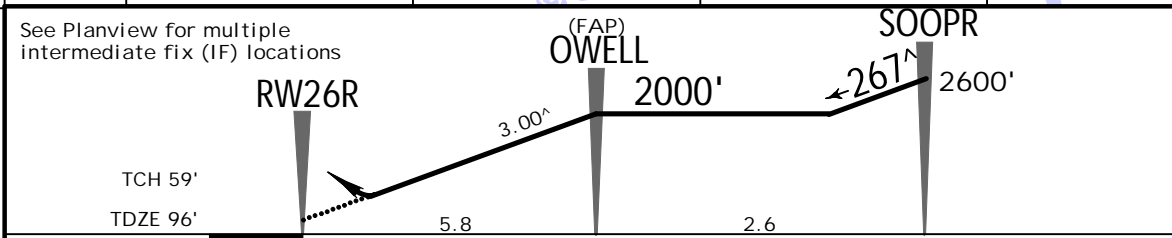
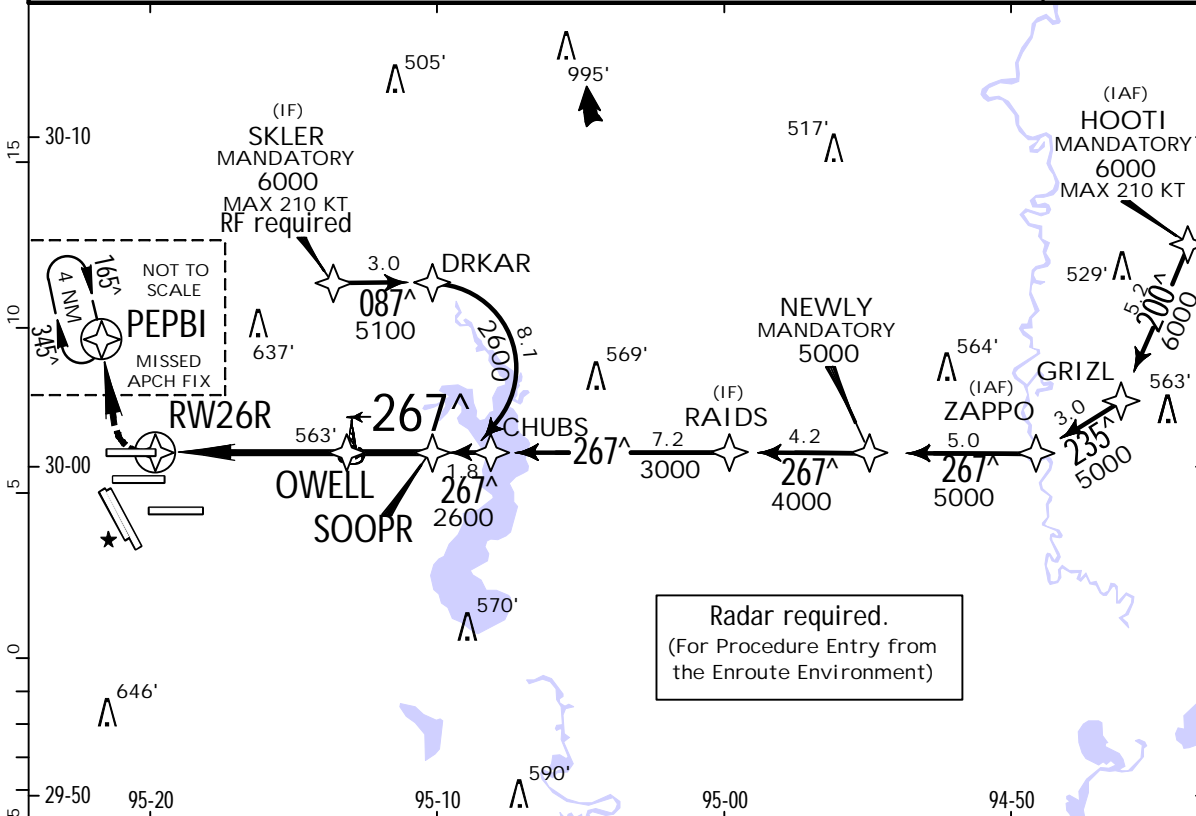
7 SEP 18

72-24

HOUSTON, TEXAS

RNAV (RNP) Y Rwy 26R

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	124.05	West 124.35	East 120.05	Rwy 8R/26L 125.35	Rwy 8L/26R 120.72	Rwy 9/27 135.15	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7
	RNAV	Final Apch Crs 267[^]		Minimum Alt OWELL 2000' (1904')		RNP 0.11 DA(H) 429' (333')		Apt Elev 96' TDZE 96'	
<p>MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' direct PEPBI and hold.</p>									
<p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>1. AUTHORIZATION REQUIRED. 2. GPS required. 3. Simultaneous approach authorized. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. For uncompensated Baro-VNAV systems, procedure not authorized below -3°C (27°F) or above 54°C (130°F).</p>									
								3100	
								MSA RW26R	



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	600'	3000'	D	PEPBI
Glide Path Angle 3.00 [^]	372	478	531	637	743	849					
MAP at DA											

TERPS.	RNP 0.11		STRAIGHT-IN LANDING RWY 26R		RNP 0.30	
	DA(H) 429' (333')		DA(H) 496' (400')		DA(H) 554' (458')	
	ALS out		ALS out		ALS out	
	A	RVR 40 or 3/4	RVR 50 or 1	RVR 45 or 7/8	1 1/4	RVR 50 or 1
B						
C						
D						

TERPS AMEND OD 13 SEP 2018

KIAH/IAH

GEORGE BUSH

INTERCONTINENTAL/HOUSTON

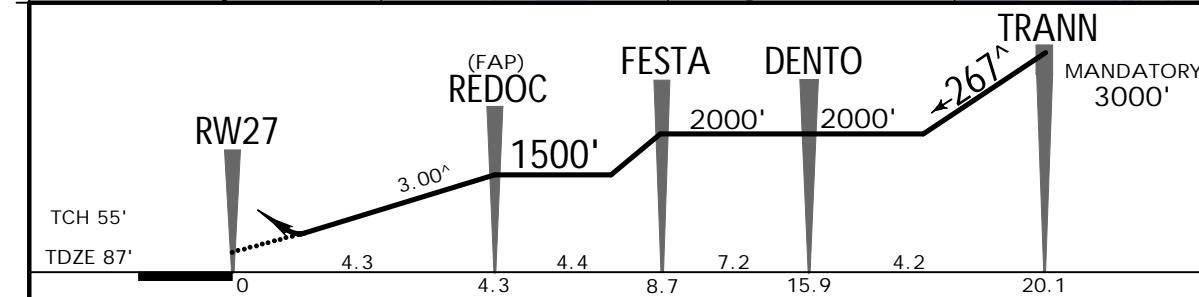
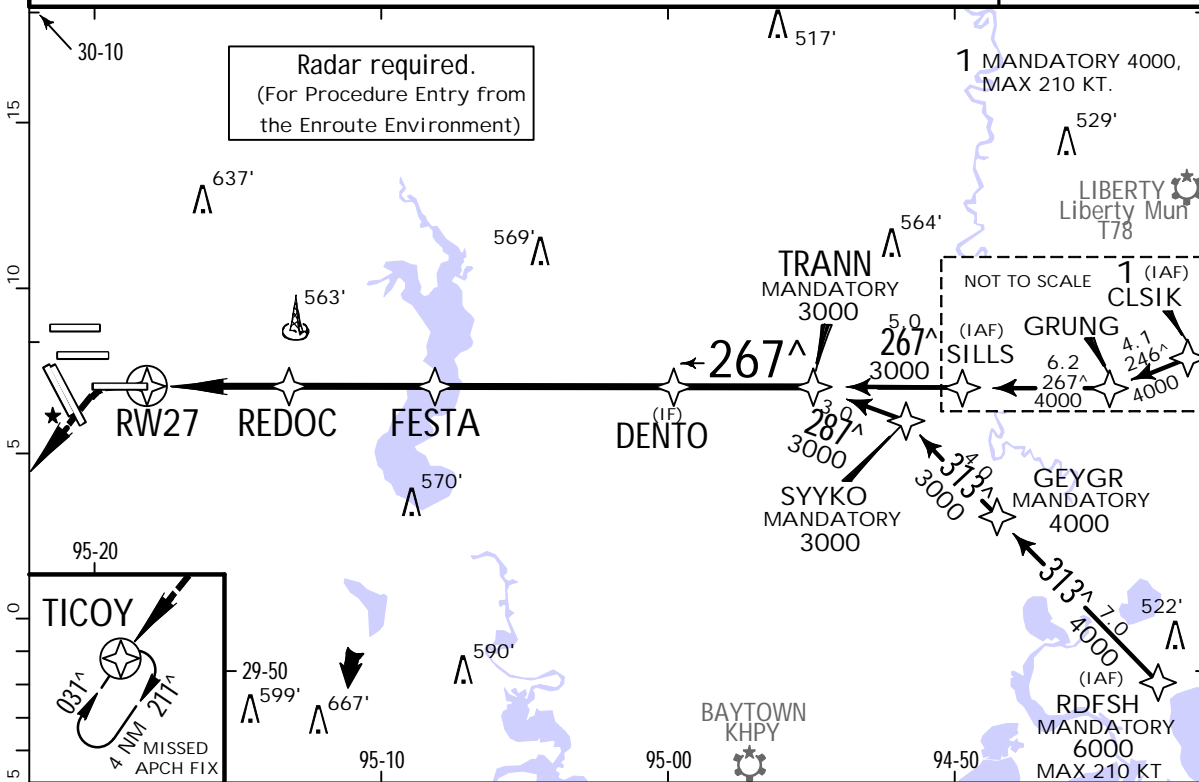


7 SEP 18 (72-25)

HOUSTON, TEXAS

RNAV (RNP) Y Rwy 27

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
		West	East	Rwy 9/27	Rwy 8R/26L	Rwy 8L/26R	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	135.15	125.35	120.72	127.3	118.575	121.7
	RNAV	Final Apch Crs 267[^]		Minimum Alt 1500' (1413')		RNP 0.30 DA(H) 389' (302')		Apt Elev 96' TDZE 87'	
MISSED APCH: Climb to 560' then climbing LEFT turn to 3000' direct TICOY and hold.									<p>3100</p> <p>MSA RW27</p>
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. AUTHORIZATION REQUIRED. 2. GPS required. 3. Simultaneous approach authorized. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. For uncompensated Baro-VNAV systems, procedure not authorized below -2°C (29°F) or above 54°C (130°F). 6. VGSI and RNAV glidepath not coincident (VGSI angle 3.00°/TCH 70').									



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	560'	3000'	D	TICOY
Glide Path Angle	3.00 [^]	372	478	531	637	849					
MAP at DA							PAPI	↑	LT		

TERPS.		STRAIGHT-IN LANDING RWY 27	
		RNP 0.30	
		DA(H) 389' (302')	
		ALS out	
A			
B			
C	RVR 24 or 1/2		RVR 50 or 1
D			

TERPS AMEND 2A 13 SEP 2018

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON



1 DEC 17 (72-40)

HOUSTON, TEXAS

GLS Rwy 8L

BRIEFING STRIP	D-ATIS		HOUSTON Approach (R)		HOUSTON Tower				Ground	
	124.05	West 124.35	East 120.05	Rwy 8L/26R 120.72	Rwy 8R/26L 125.35	Rwy 9/27 135.15	Rwys 15L/33R, 15R/33L 127.3	Rwys 8L/26R, 8R/26L, 9/27 118.575	Rwys 15L/33R, 15R/33L 121.7	
	LAAS Ch 21073 G-BZU		Final Apch Crs 087 [^]	Minimum Alt JACEN 2000' (1905')	GLS DA(H) 295' (200')	Apt Elev 96' TDZE 95'				
MISSED APCH: Climb to 580' then climbing LEFT turn to 4000' direct CLEEP and hold.										
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 8R and Rwy 9. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. GLS unusable inside DA. 7. Autoland approach not authorized.										

Gnd speed-Kts	70	90	100	120	140	160		580'	4000'		CLEEP
Glide Path Angle	3.00 [^]	372	478	531	637	743		849			

.TERPS. STRAIGHT-IN LANDING RWY 8L											
GLS DA(H) 295' (200')											
						ALS out					
A											
B	RVR 18 or 1/2						RVR 40 or 3/4				
C											
D											

TERPS AMEND 1B 7 DEC 2017

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON



1 DEC 17 **72-41**

HOUSTON, TEXAS

GLS Rwy 8R

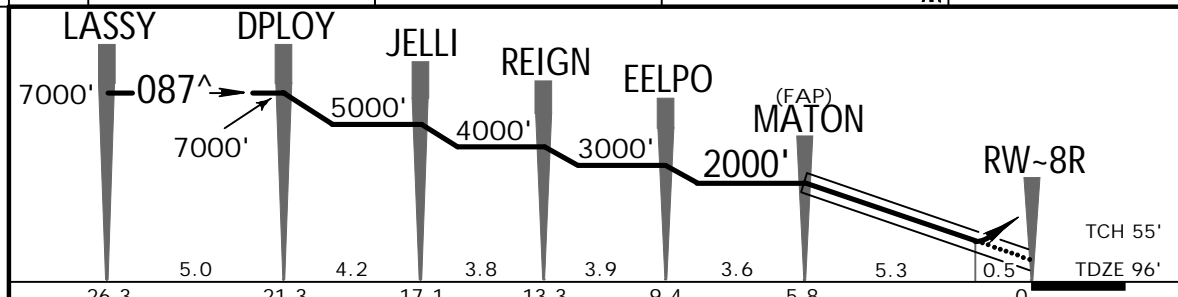
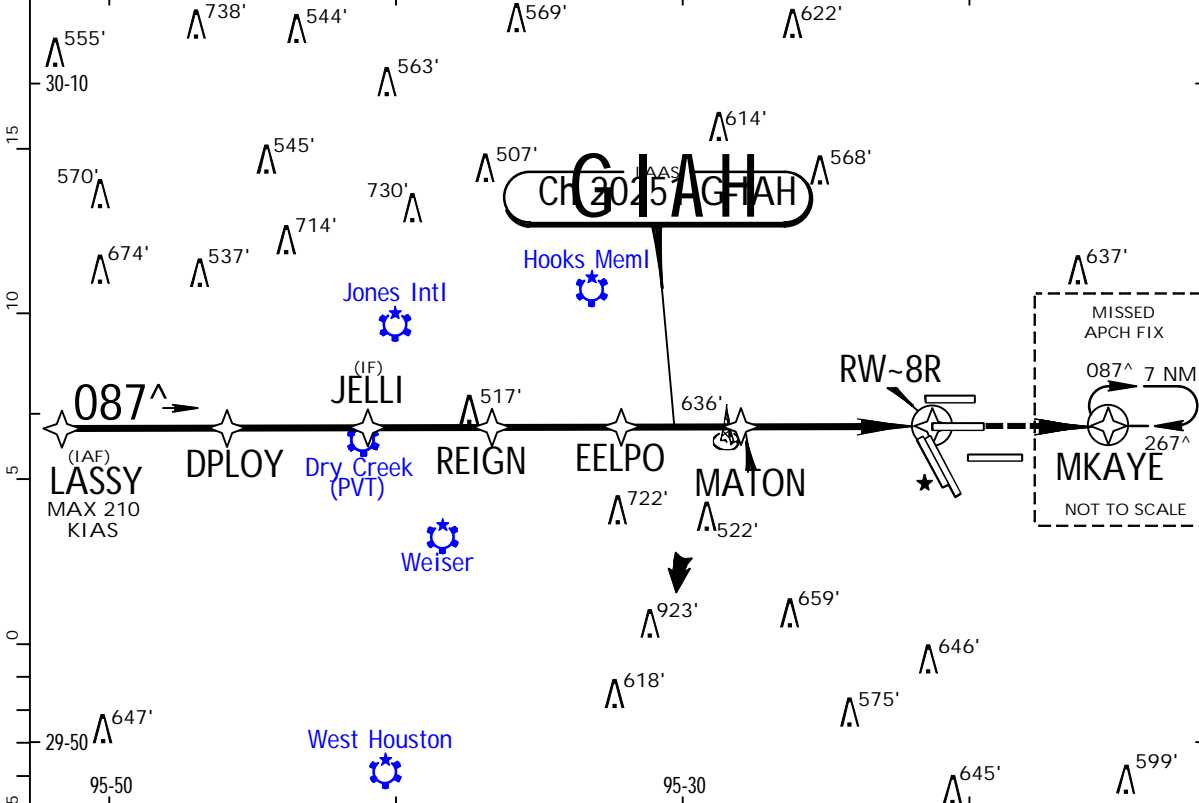
D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
	West	East	Rwy 8R/26L	Rwy 8L/26R	Rwy 9/27	Rwys 15L/33R, 15R/33L	Rwys 8R/26L, 8L/26R, 9/27	Rwys 15L/33R, 15R/33L
124.05	124.35	120.05	125.35	120.72	135.15	127.3	118.575	121.7

LAAS Ch 20251 G-IAH	Final Apch Crs 087[^]	Minimum Alt MATON 2000' (1904')	GLS DA(H) 296' (200')	Apt Elev 96' TDZE 96'	3100 MSA RW-8R
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MISSED APCH: Climb to 3000' direct MKAYE and hold.

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 8L and Rwy 9. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. VGSI and GLS glidepath not coincident. 7. GLS unusable inside DA. 8. Autoland approach not authorized.



Gnd speed-Kts	70	90	100	120	140	160	MALSRL PAPI	3000'	D	MKAYE
Glide Path Angle	3.00 [^]	372	478	531	637	743				
MAP at DA										

.TERPS. STRAIGHT-IN LANDING RWY 8R
GLS DA(H) **296'** (200')

RAIL/ALS out	
A	
B	
C	RVR 18 or 1/2
D	RVR 40 or 3/4

TERPS AMEND 1B 7 DEC 2017

KIAH/IAH

JEPPESEN

HOUSTON, TEXAS

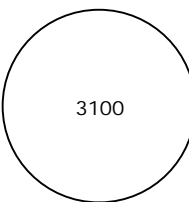
GEORGE BUSH INTERCONTINENTAL/HOUSTON

1 DEC 17 72-42

GLS Rwy 9

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
124.05	West 124.35	East 120.05	Rwy 9/27 135.15	Rwy 8R/26L 125.35	Rwy 8L/26R 120.72	Rwys 15L/33R, 15R/33L 127.3	Rwys 9/27, 8L/26R, 8R/26L 118.575	Rwys 15L/33R, 15R/33L 121.7

BRIEFING STRIP

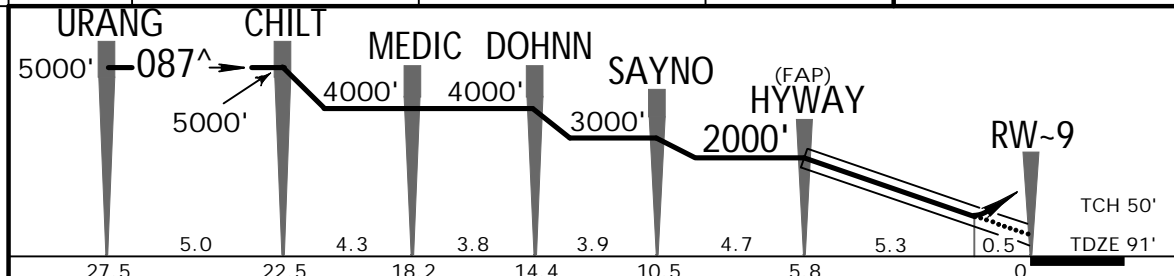
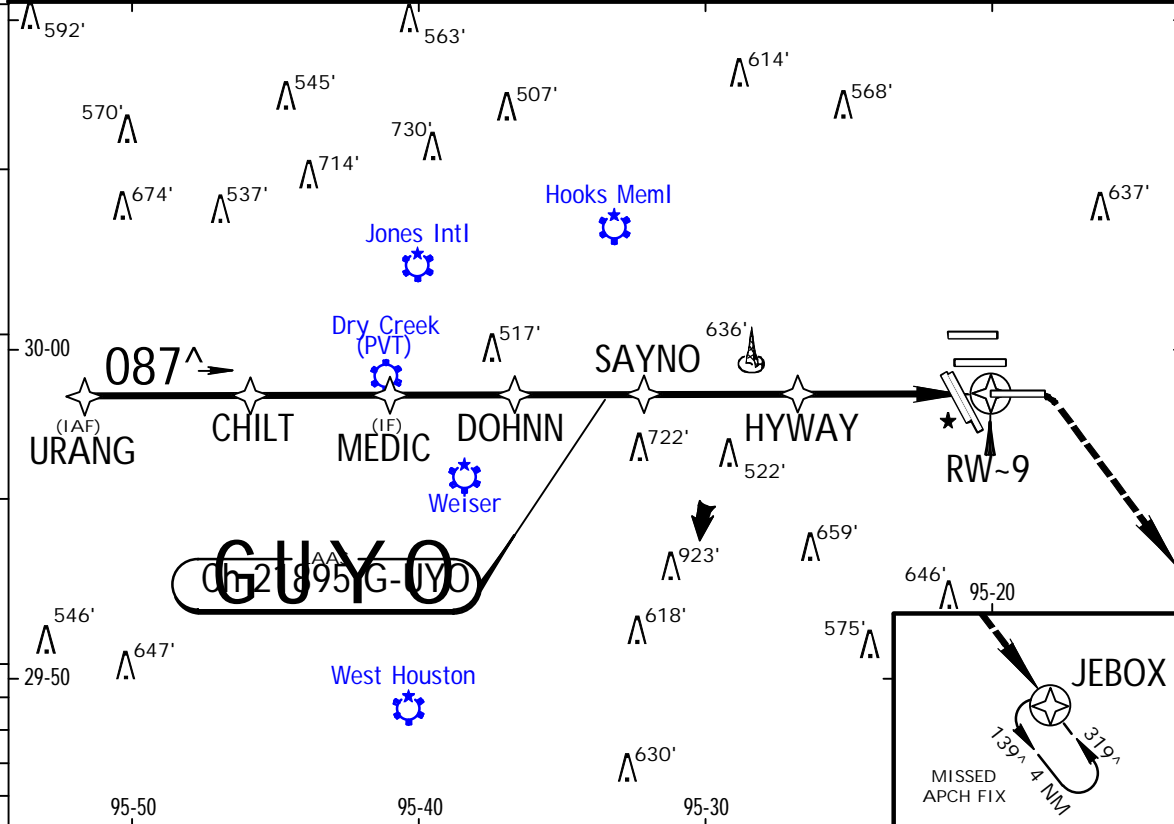
LAAS Ch 21895 G-UYO	Final Apch Crs 087^	Minimum Alt HYWAY 2000' (1909')	GLS DA(H) 291' (200')	Apt Elev 96' TDZE 91'	
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
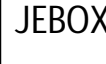

MISSED APCH: Climb to 580' then climbing RIGHT turn to 3000' direct JEBBOX and hold.

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 8L and Rwy 8R. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. VGSI and GLS glidepath not coincident. 7. GLS unusable inside DA. 8. Autoland approach not authorized.

20
15
10
5
0
5



Gnd speed-Kts	70	90	100	120	140	160	MALS	580'	3000'			
Glide Path Angle	3.00^	372	478	531	637	743	849					

MAP at DA
TERPS.
STRAIGHT-IN LANDING RWY 9
GLS
DA(H) 291' (200')

A	1 RVR 24 or 1/2	RAIL/ALS out RVR 40 or 3/4
B		
C		
D		

KIAH/IAH

GEORGE BUSH
INTERCONTINENTAL/HOUSTON

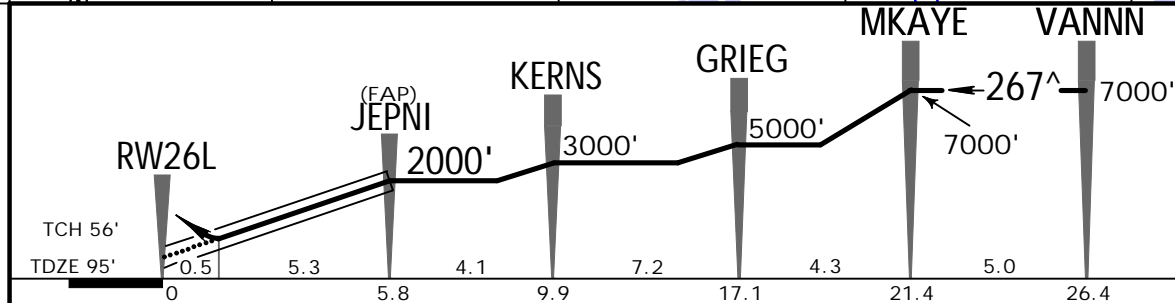
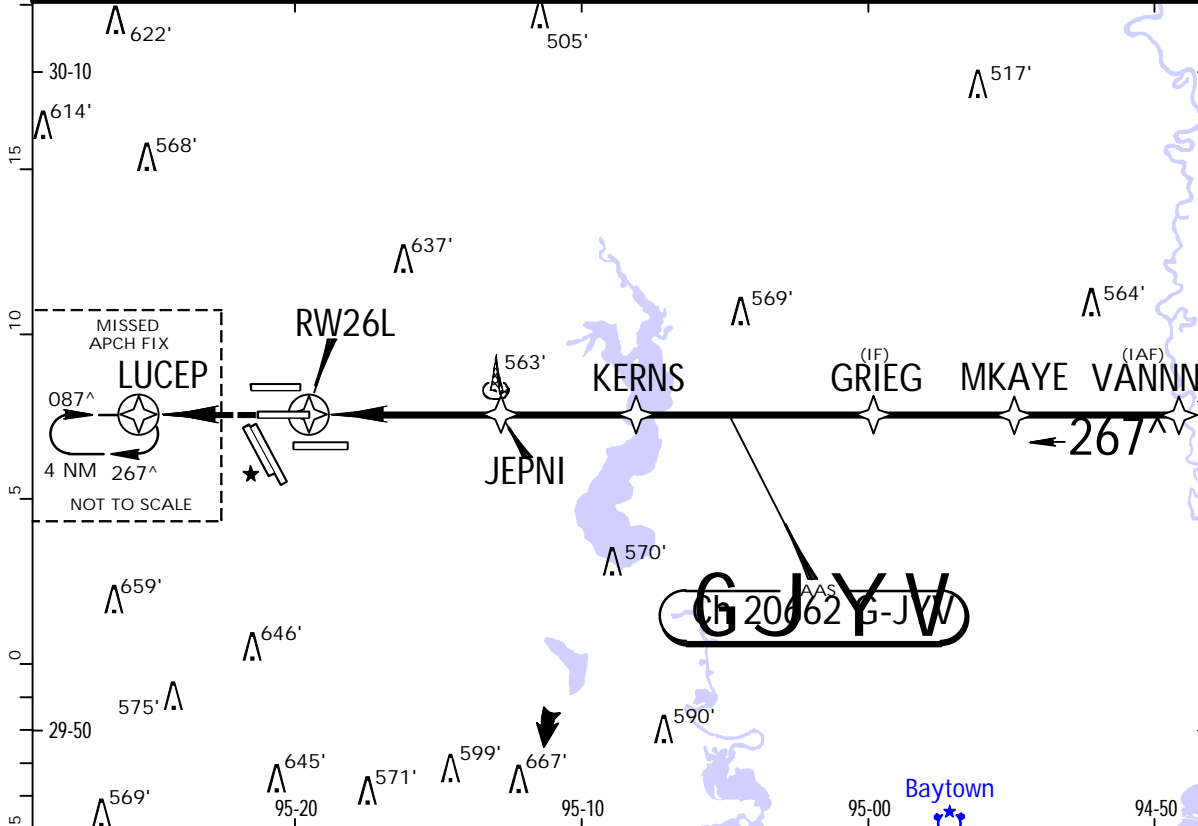


1 DEC 17 **72-43**

HOUSTON, TEXAS

GLS Rwy 26L

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground	
	124.05	West 124.35	East 120.05	Rwy 8R/26L 125.35	Rwy 8L/26R 120.72	Rwy 9/27 135.15	Rwys 15L/33R, 15R/33L 127.3	Rwys 8R/26L, 8L/26R, 9/27 118.575
	LAAS Ch 20662 G-JYW	Final Apch Crs 267^		Minimum Alt JEPNI 2000' (1905')		GLS DA(H) 295' (200')	Apt Elev 96' TDZE 95'	
MISSED APCH: Climb to 3000' direct LUCEP and hold.								3100 MSA RW26L
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 26R and Rwy 27. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. VGSI and GLS glidepath not coincident. 7. GLS unusable inside DA. 8. Autoland approach not authorized.								



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000'	D→	LUCEP
Glide Path Angle	3.00^	372	478	531	637	743				

MAP at DA
TERPS. STRAIGHT-IN LANDING RWY 26L
GLS DA(H) 295' (200')
ALS out

A		
B	RVR 18 or 1/2	RVR 40 or 3/4
C		
D		

TERPS AMEND 1B 7 DEC 2017

KIAH/IAH

GEORGE BUSH INTERCONTINENTAL/HOUSTON



1 DEC 17 (72-44)

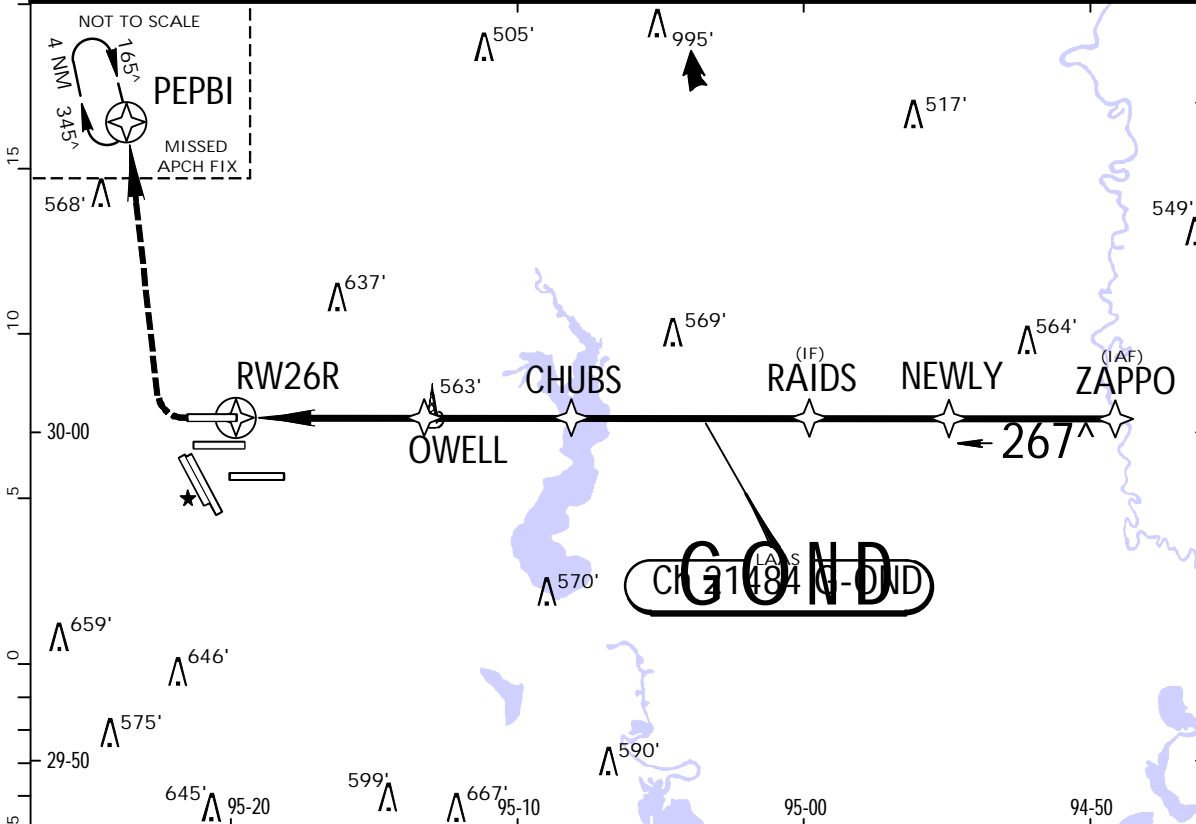
HOUSTON, TEXAS GLS Rwy 26R

D-ATIS	HOUSTON Approach (R)		HOUSTON Tower				Ground	
124.05	West 124.35	East 120.05	Rwy 8L/26R 120.72	Rwy 8R/26L 125.35	Rwy 9/27 135.15	Rwys 15L/33R, 15R/33L 127.3	Rwys 8L/26R, 8R/26L, 9/27 118.575	Rwys 15L/33R, 15R/33L 121.7

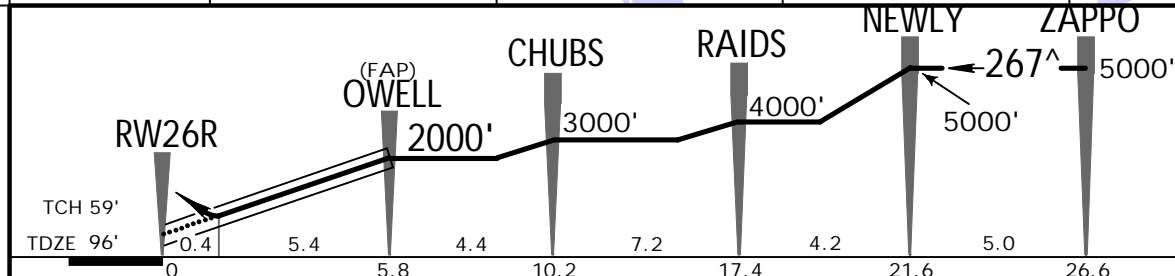
BRIEFING STRIP™

LAAS Ch 21484 G-OND	Final Apch Crs 267[^]	Minimum Alt OWELL 2000' (1904')	GLS DA(H) 296' (200')	Apt Elev 96' TDZE 96'	<p>3100</p> <p>MSA RW26R</p>
MISSED APCH: Climb to 600' then climbing RIGHT turn to 3000' direct PEPBI and hold.					
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 26L and Rwy 27. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. GLS unusable inside DA. 7. Autoland approach not authorized.					

20



5



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	600'	3000'	PEPBI
Glide Path Angle	3.00 [^]	372	478	531	637	743	849	↑	RT	→

MAP at DA

.TERPS. STRAIGHT-IN LANDING RWY 26R

GLS DA(H) 296' (200')

ALS out

TERPS AMEND 'B 7 DEC 2017

A		
B	RVR 18 or 1/2	RVR 40 or 3/4
C		
D		

KIAH/IAH

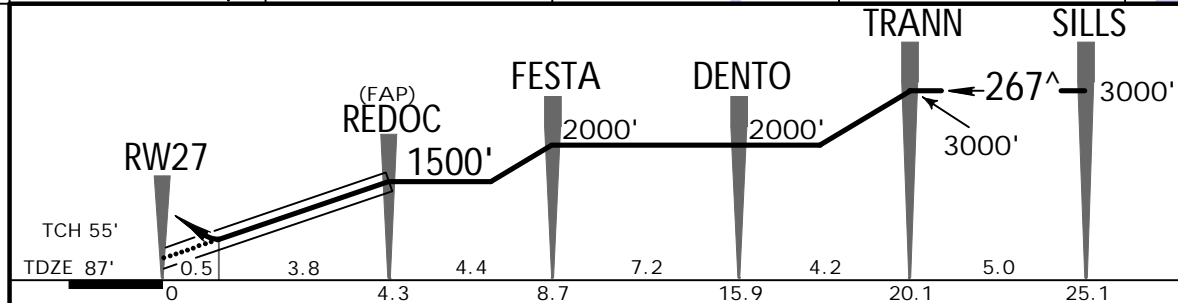
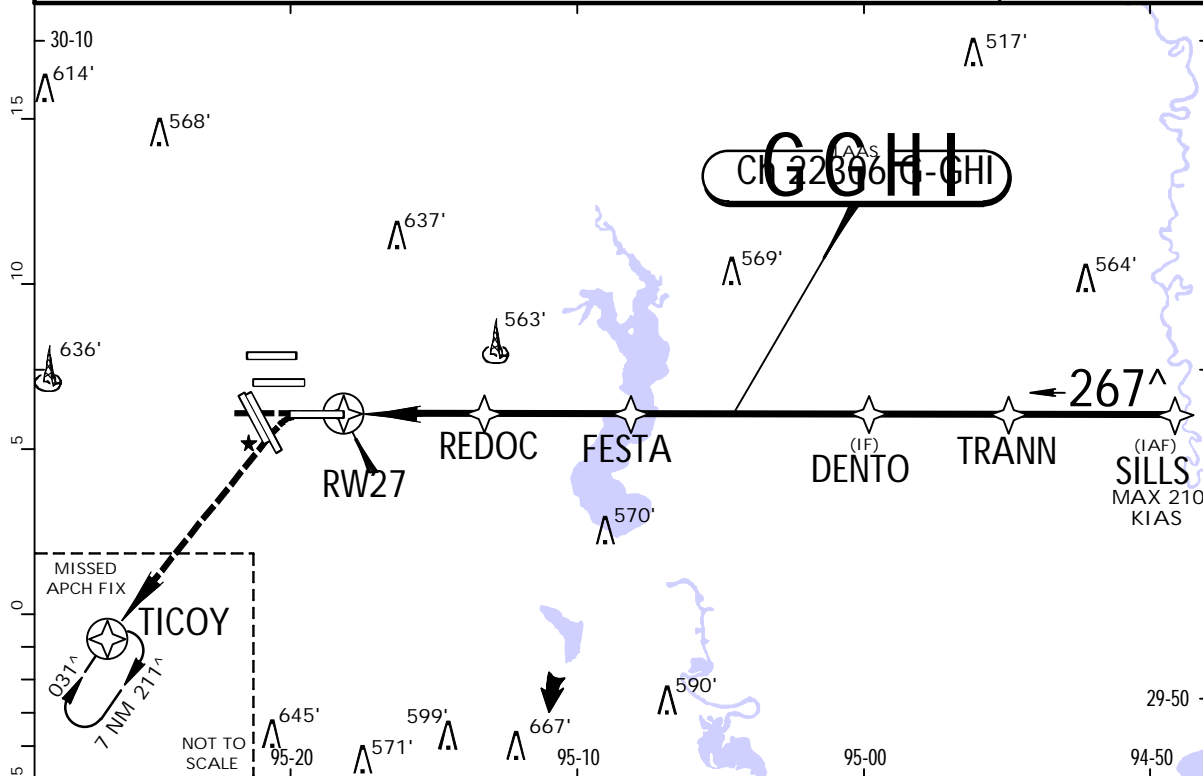


HOUSTON, TEXAS GLS Rwy 27

GEORGE BUSH INTERCONTINENTAL/HOUSTON

1 DEC 17 72-45

BRIEFING STRIP™	D-ATIS	HOUSTON Approach (R)		HOUSTON Tower			Ground		
		West	East	Rwy 9/27	Rwy 8R/26L	Rwy 8L/26R	Rwys 15L/33R, 15R/33L	Rwys 9/27, 8L/26R, 8R/26L	Rwys 15L/33R, 15R/33L
	124.05	124.35	120.05	135.15	125.35	120.72	127.3	118.575	121.7
	LAAS Ch 22306 G-GHI	Final Apch Crs 267[^]	Minimum Alt REDOC 1500' (1413')	GLS DA(H) 287' (200')	Apt Elev 96' TDZE 87'		<div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">3100</div> <p>MSA RW27</p>		
<p>MISSED APCH: Climb to 560' then climbing LEFT turn to 3100' direct TICOY and hold.</p>									
<p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>1. GPS required. 2. Radar required. 3. Simultaneous approach authorized with Rwy 26L and Rwy 26R. 4. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 5. DME/DME RNP-0.30 not authorized. 6. VGSI and GLS glidepath not coincident. 7. GLS unusable inside DA. 8. Autoland approach not authorized.</p>									



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II 560'	3100'	TICOY
Glide Path Angle	3.00 [^]	372	478	531	637	743			
MAP at DA									

.TERPS. STRAIGHT-IN LANDING RWY 27
GLS DA(H) **287'** (200')

ALS out	
A	
B	RVR 18 or 1/2
C	
D	RVR 40 or 3/4

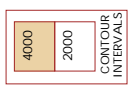
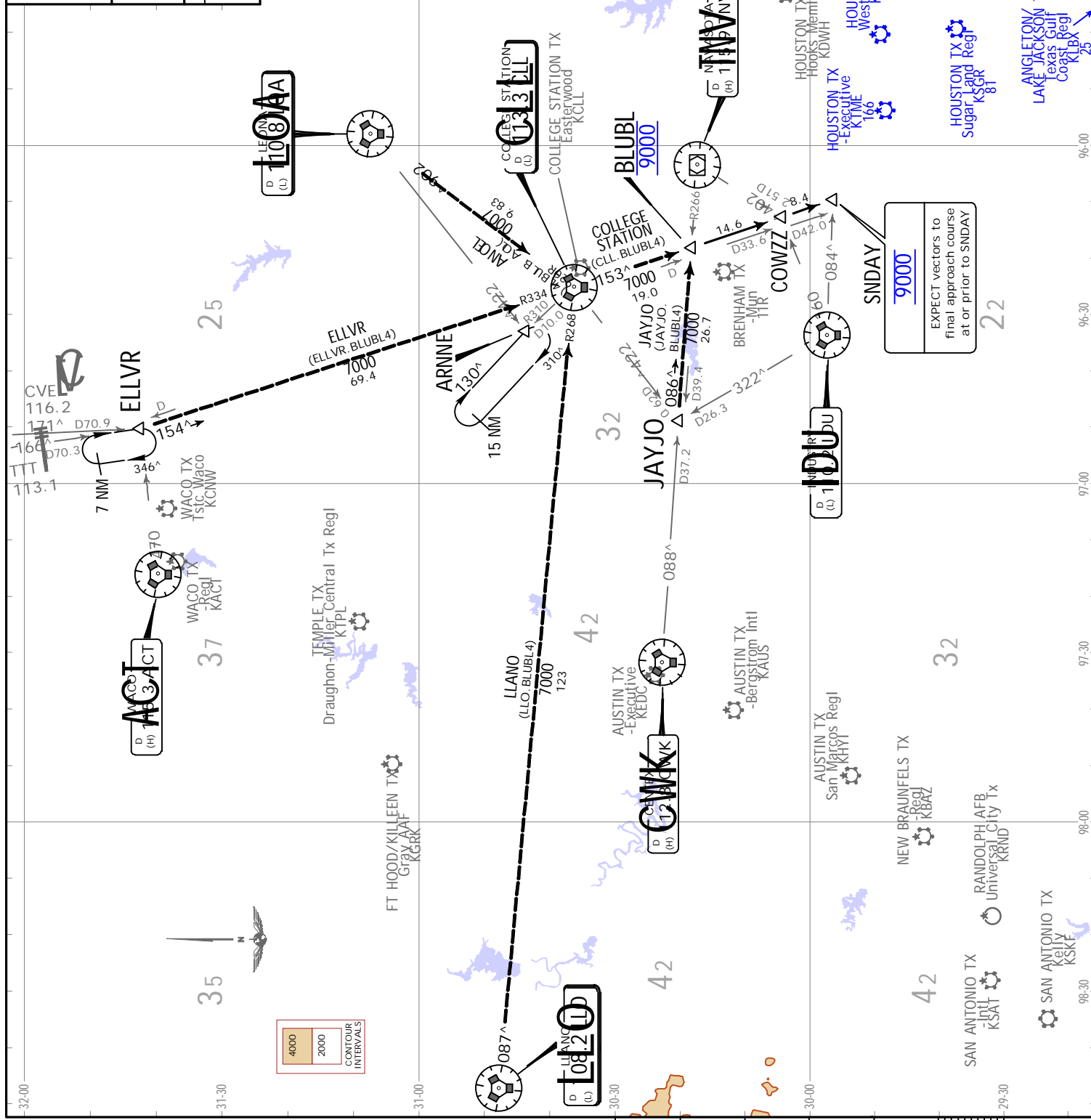
TERPS AMEND 1B 7 DEC 2017

Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. JAYJO transition for Austin terminal area departures only.
 3. Airports served: 5AT, KAXH, KEFD, KGLS, KHPY, KIWS, KLBX, KLVJ, KSGR, KTIME, T-3, T41.

BLUBELL 4 ARRIVAL (BLUBL.BLUBL4)

ROUTING

From over BLUBL on CLL R153 to cross SNDAY at 9000, from SNDAY fly heading 153°. EXPECT vectors to final approach course at or prior to SNDAY.

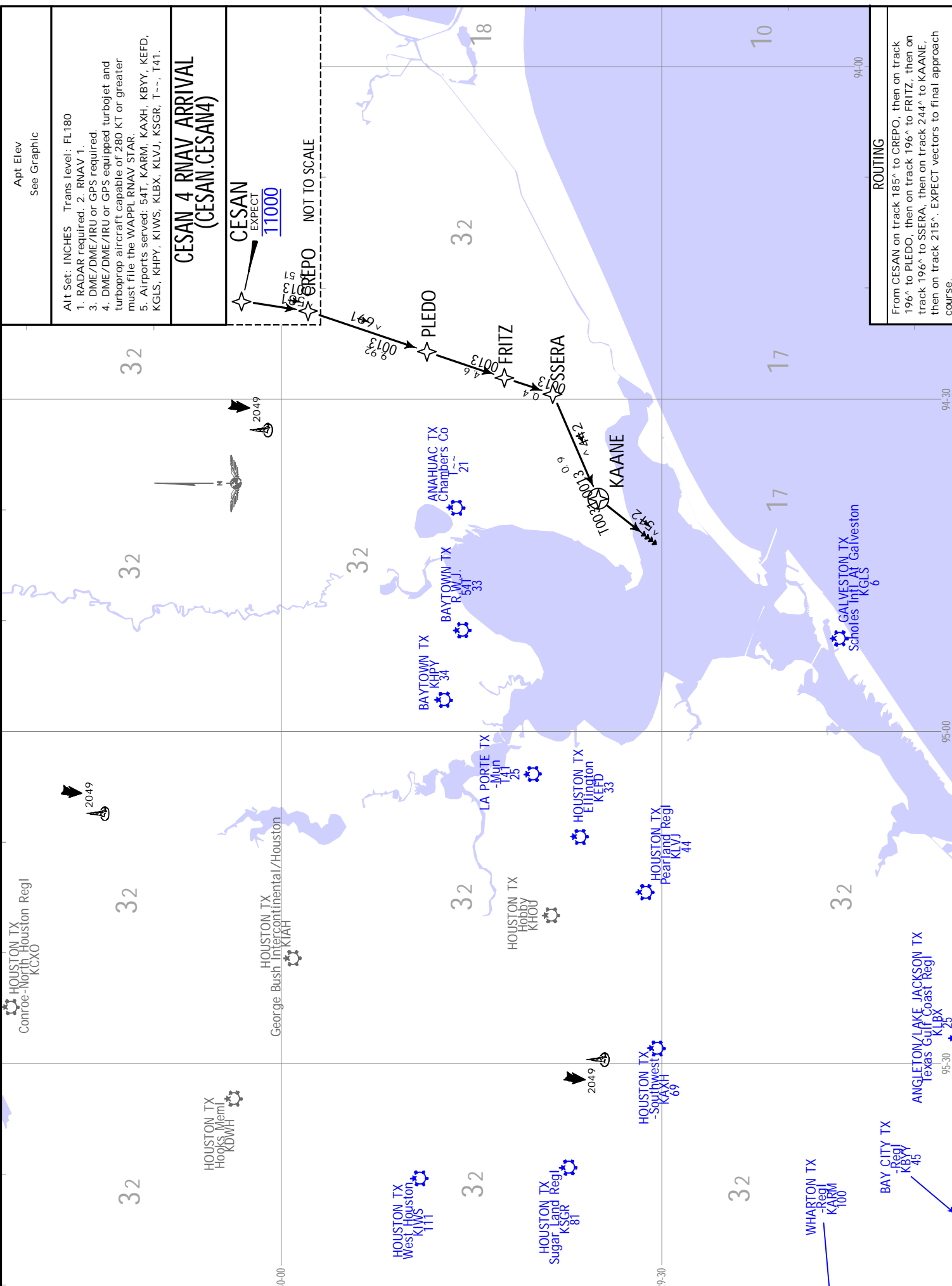


SNDAY
 9000
 EXPECT vectors to final approach course at or prior to SNDAY

HOUSTON METROPLEX TEXAS STAR

JEPPESEN
20 MAR 20 (90-2A) . Eff. 26. Mar.

AREA STAR



Apt Elev
See Graphic

- Alt Set: INCHES Trans level: FL180
- 1. RADAR required. 2. RNAV 1.
- 3. DME/DME/IRU or GPS required.
- 4. DME/DME/IRU or GPS equipped turbojet and turboprop aircraft capable of 280 KT or greater must file the WAPPL RNAV STAR.
- 5. Airports served: 54T, KARM, KAXH, KBYY, KEFD, KGLS, KHPY, KIWS, KLBX, KLVJ, KSGR, T--, T41.

CESAN 4 RNAV ARRIVAL (CESAN.CESAN4)

CESAN
EXPECT
11000

CREPO NOT TO SCALE

ROUTING

From CESAN on track 185° to CREPO, then on track 196° to PLEDO, then on track 196° to FRITZ, then on track 196° to SSSERA, then on track 244° to KAANE, then on track 215°. EXPECT vectors to final approach course.

JEPESEN HOUSTON METROPLEX, TEXAS
STAR.

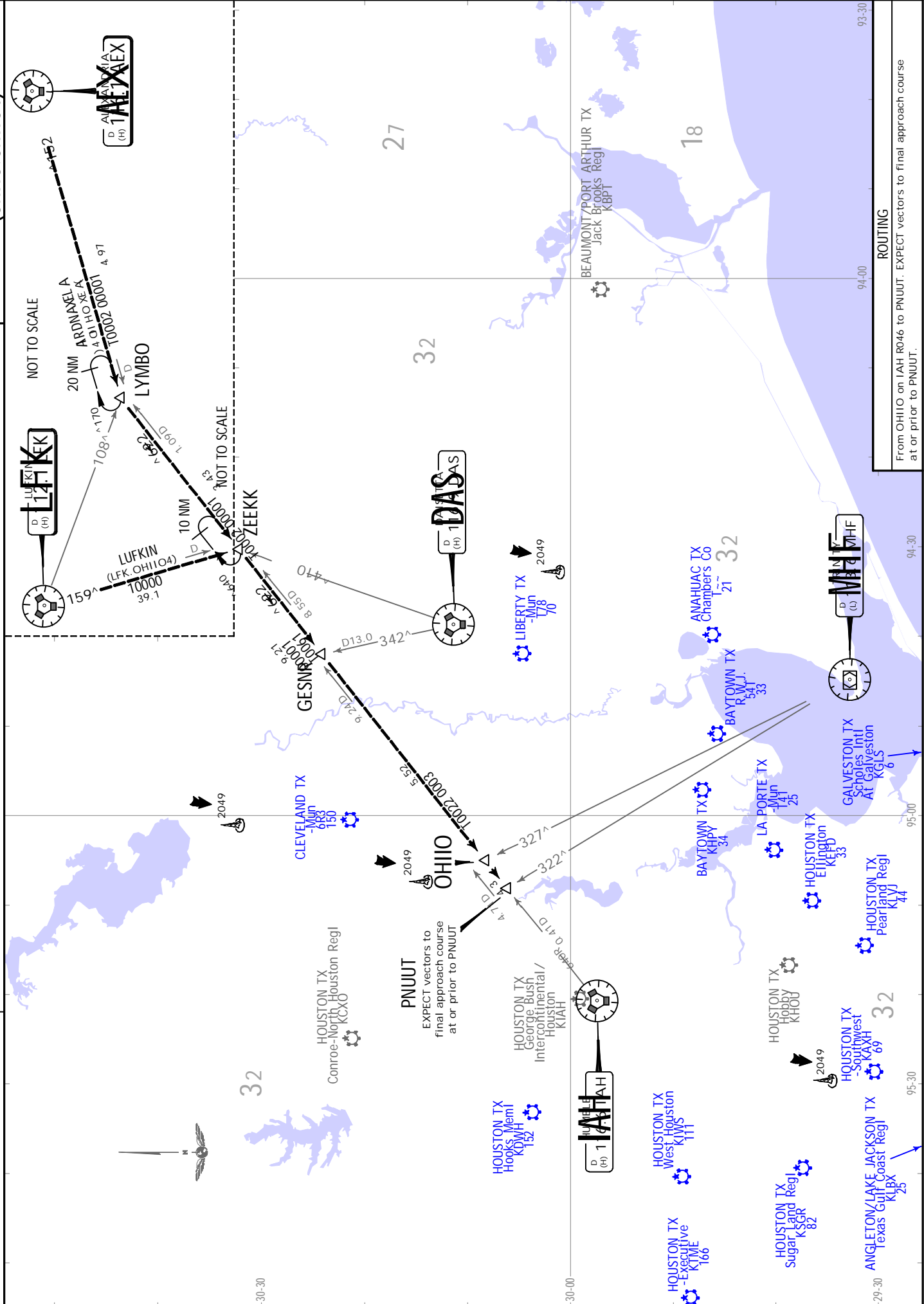
15 NOV 19 (90-2C)

AREA STAR

OHIO 4 ARRIVAL
(OHIO.OH104)

Apt Elev
See Graphic

Alt Set: INCHES Trans level: FL180
1. ATC assigned only for airports other than KDWL, T78 and 6R3.
2. Airports served: 54T, 6R3, KAXH, KDWL, KEFD, KGLS, KHPY, KILWS, KLBX, KLVJ, KSGR, KTIME, T--, T41, T78.



From OHIO on 1AH R046 to PNUUT. EXPECT vectors to final approach course at or prior to PNUUT.

ROUTING
From OHIO on 1AH R046 to PNUUT. EXPECT vectors to final approach course at or prior to PNUUT.

HOUSTON METROPLEX TEXAS
JEPPESEN
 20 MAR 20 (90-2D) .Eff. 26 Mar.

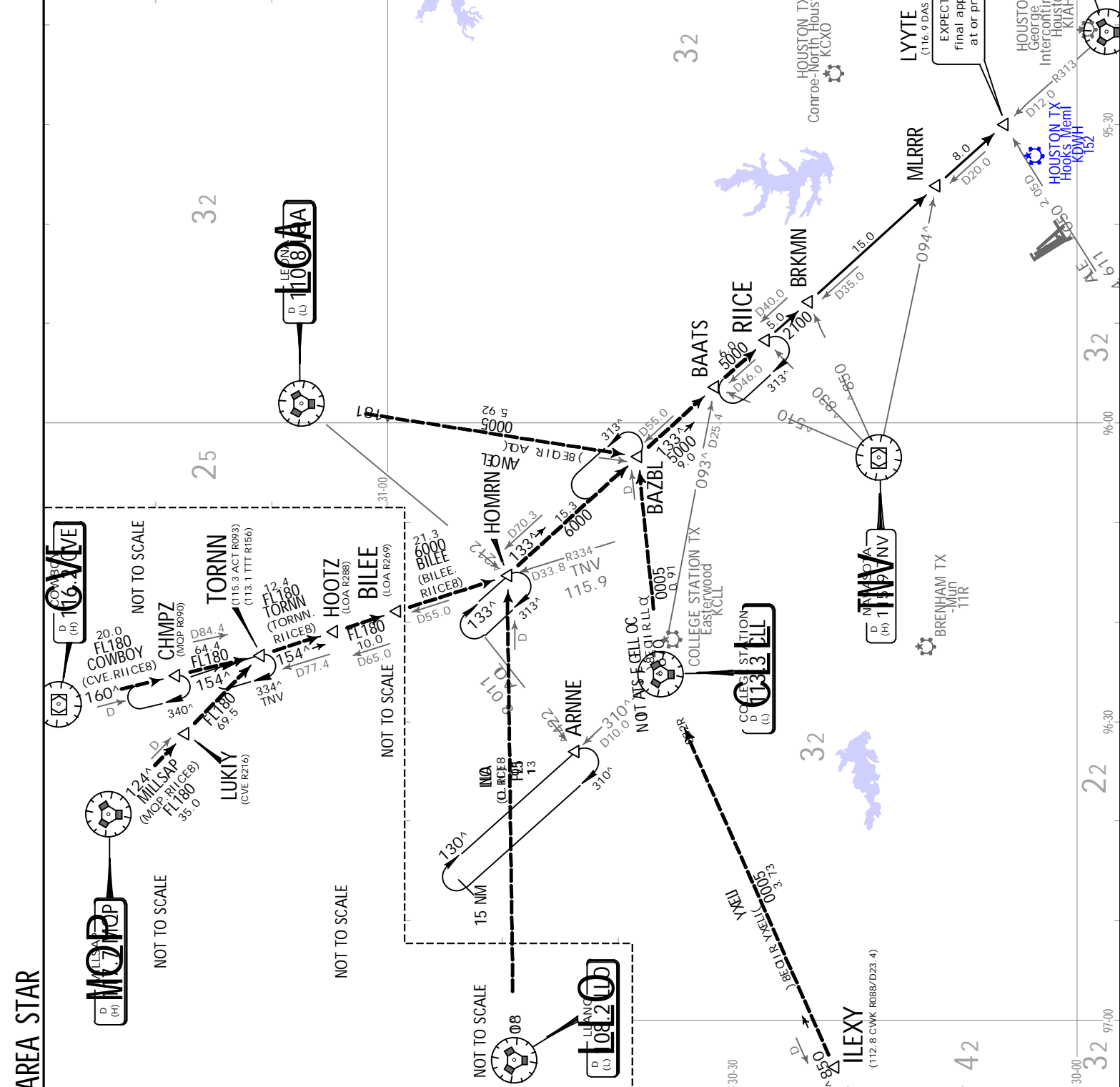
Apt Elev
 See Graphic

Alt Set: INCHES
 Trans level: FL180
 Airports served: 6R3, KDWH, T78.

RIICE 8 ARRIVAL (BAZBL.RIICE8)

ROUTING

From over RIICE on IAH R313 to BRKMMN, then as depicted to LYYTE. EXPECT vectors to final approach course at or prior to LYYTE.

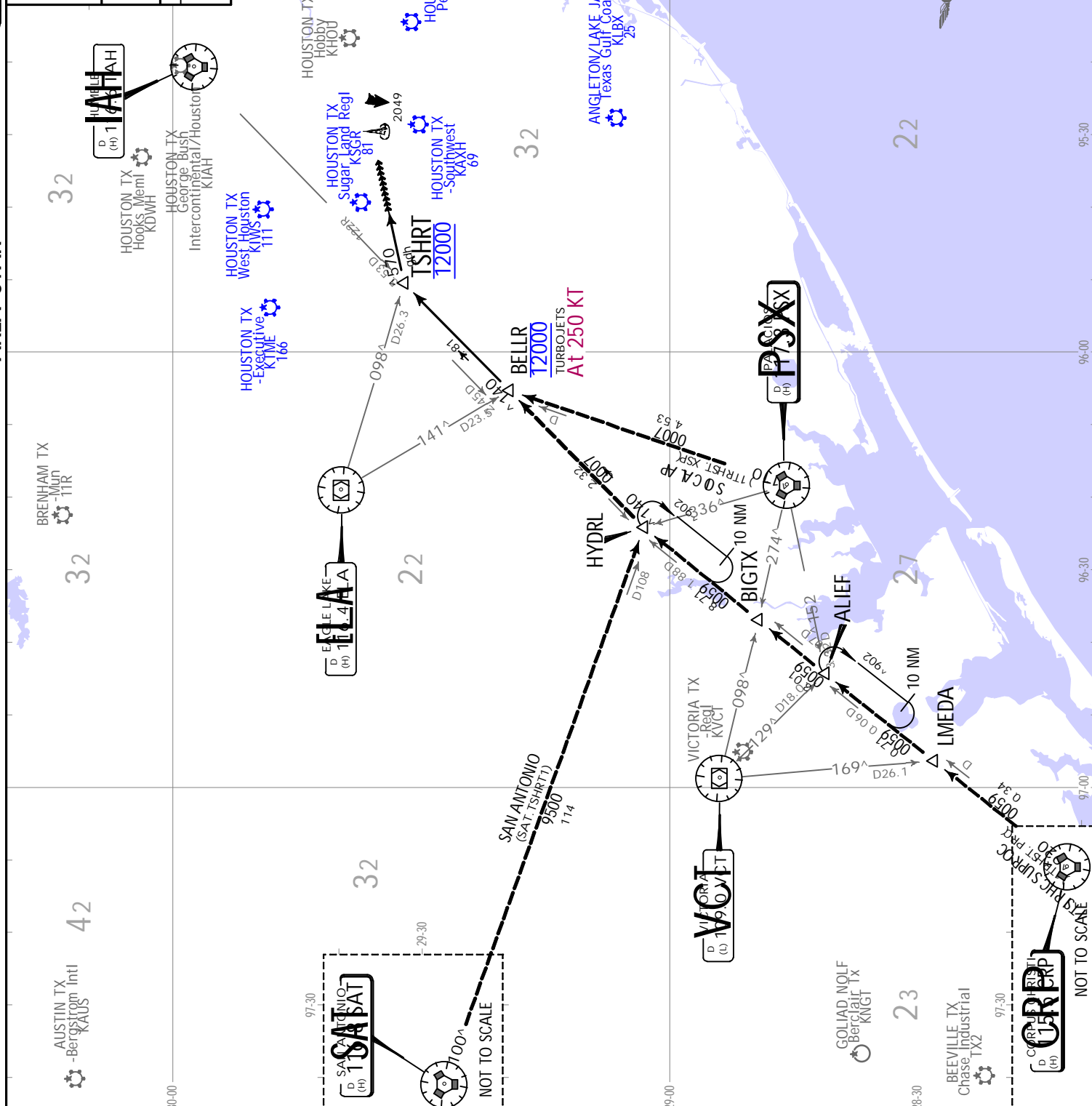


HOUSTON METROPLEX TEXAS STAR

JEPPESEN
20 MAR 20 09:02G . Eff. 26 Mar.

AREA STAR

<p>Alt Set: INCHES Trans level: FL180</p> <p>1. RADAR required.</p> <p>2. DME required for holding at HYDRL</p> <p>3. Airports served: 54T, KAXH, KEFD, KGLS, KHPY, KIWS, KLBX, KLVJ, KSGR, KTIME, T--, T41.</p>	
<p>Apt Elev See Graphic</p>	<p>TSHRT 1 ARRIVAL (BELLR.TSHRT1)</p>
<p>ROUTING</p> <p>From over BELLR on IAH R221 to cross TSHRT at 12000.</p> <p>From TSHRT fly heading 075° for vectors to final approach course.</p>	

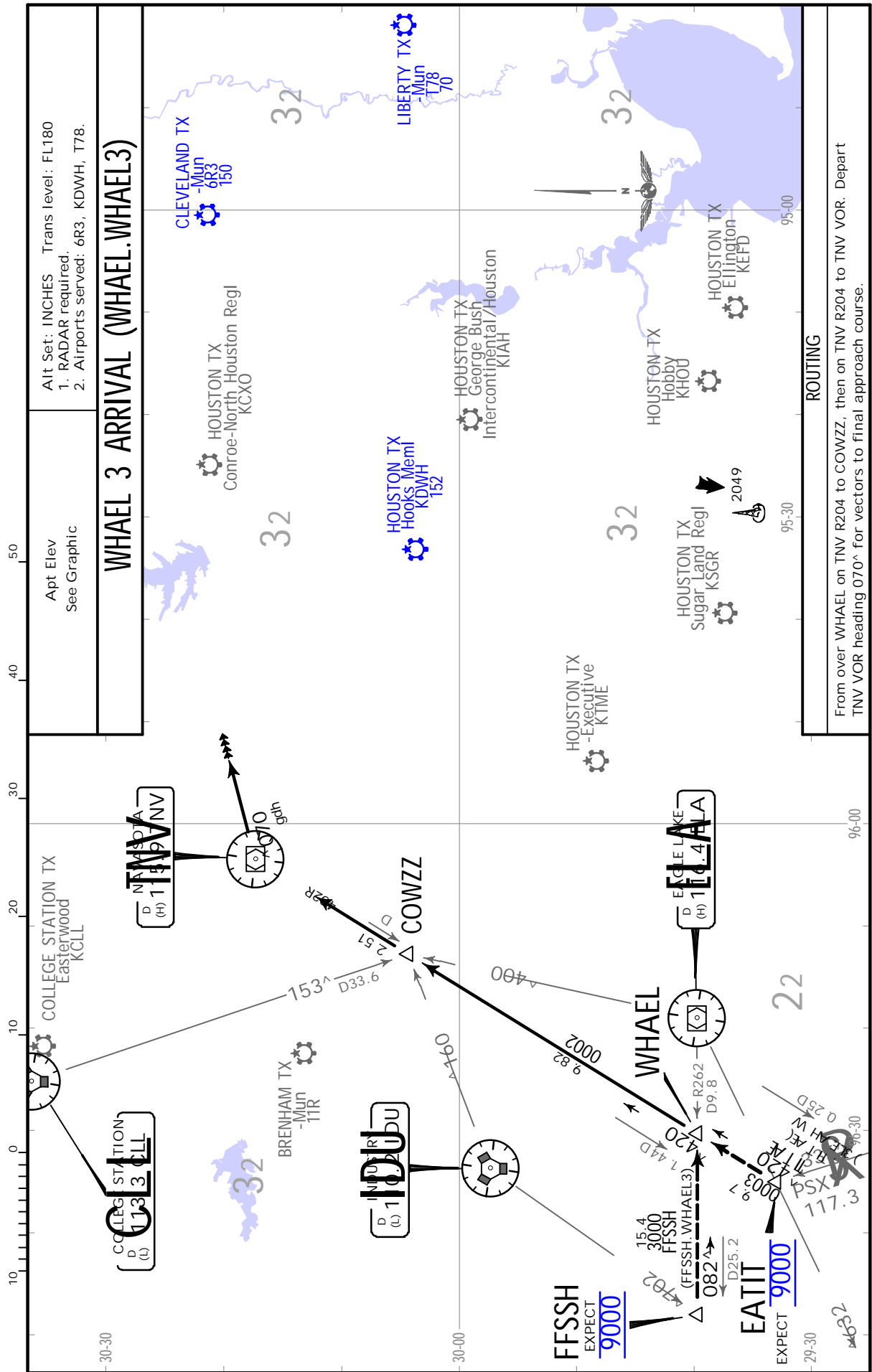


HOUSTON METROPLEX, TEXAS .STAR.



20 MAR 20 (90-2J) .Eff.26.Mar.

AREA STAR



Ait Set: INCHES Trans level: FL180
1. RADAR required.
2. Airports served: 6R3, KDWH, T78.

WHAEL 3 ARRIVAL (WHAEL.WHAEL3)

Apt Elev
See Graphic

ROUTING

From over WHAEL on TNV R204 to COWZZ, then on TNV R204 to TNV VOR. Depart TNV VOR heading 070° for vectors to final approach course.

HOUSTON METROPLEX TEXAS .SID.

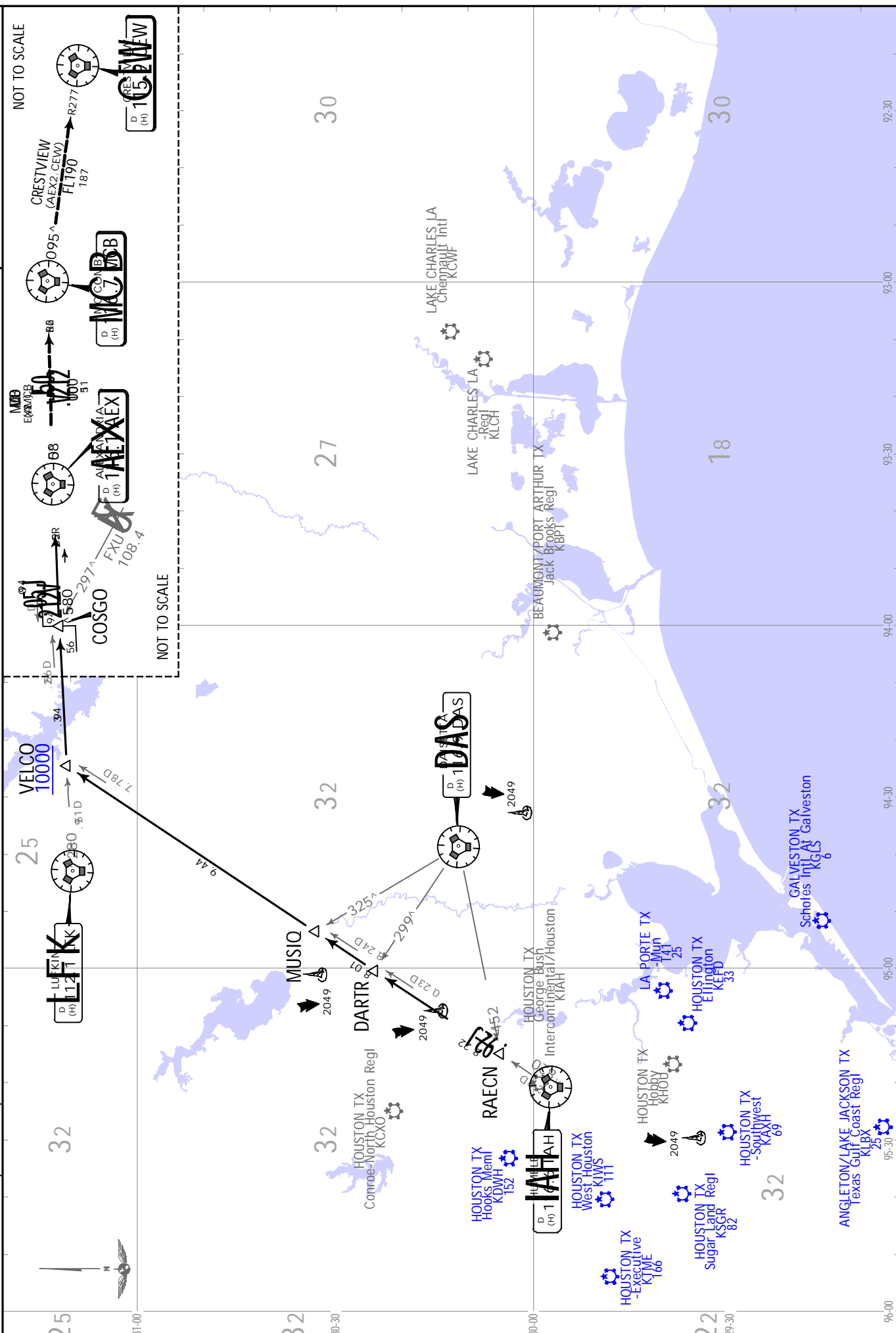
JEPPesen
29 NOV 19 (90-3) .Eff. 5. Dec.

ALEXANDRIA 2 DEPARTURE (AEX2.AEX)

For Procedure Text and Takeoff Minimums see 90-3-1 PROCEDURE GRAPHIC

1. RADAR required. 2. CRESTVIEW and MC COMB transitions are ATC assigned only. Do not file. 3. CRESTVIEW transition for aircraft being weather rerouted to join a jet route off CEW VOR or overflying CEW VOR to join a direct route. 4. MC COMB transition for aircraft being weather rerouted to join a jet route off MCB VOR or overflying MCB VOR to join a direct route. 6. Also serves KEFD, KDWH, KTME, KAXH, T41, KGLS, KSGR, KLBX, KIWS.

Apt Elev See Graphic
Trans alt: 18000





29 NOV 19 (90-3-1) .Eff. 5. Dec.

AREA SID

ALEXANDRIA 2 DEPARTURE (AEX2.AEX)

For Procedure Graphic see 90-3 PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

AIRPORTS SERVED	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to RAECN.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN.	
HOUSTON -SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From RAECN on IAH R028 to cross VELCO at or above 10000, then RIGHT turn on LFK R082 and AEX R265 to AEX VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From RAECN on IAH R028 to cross VELCO at or above 10000, then RIGHT turn on LFK R082 and AEX R265 to AEX VOR.	Assigned by ATC

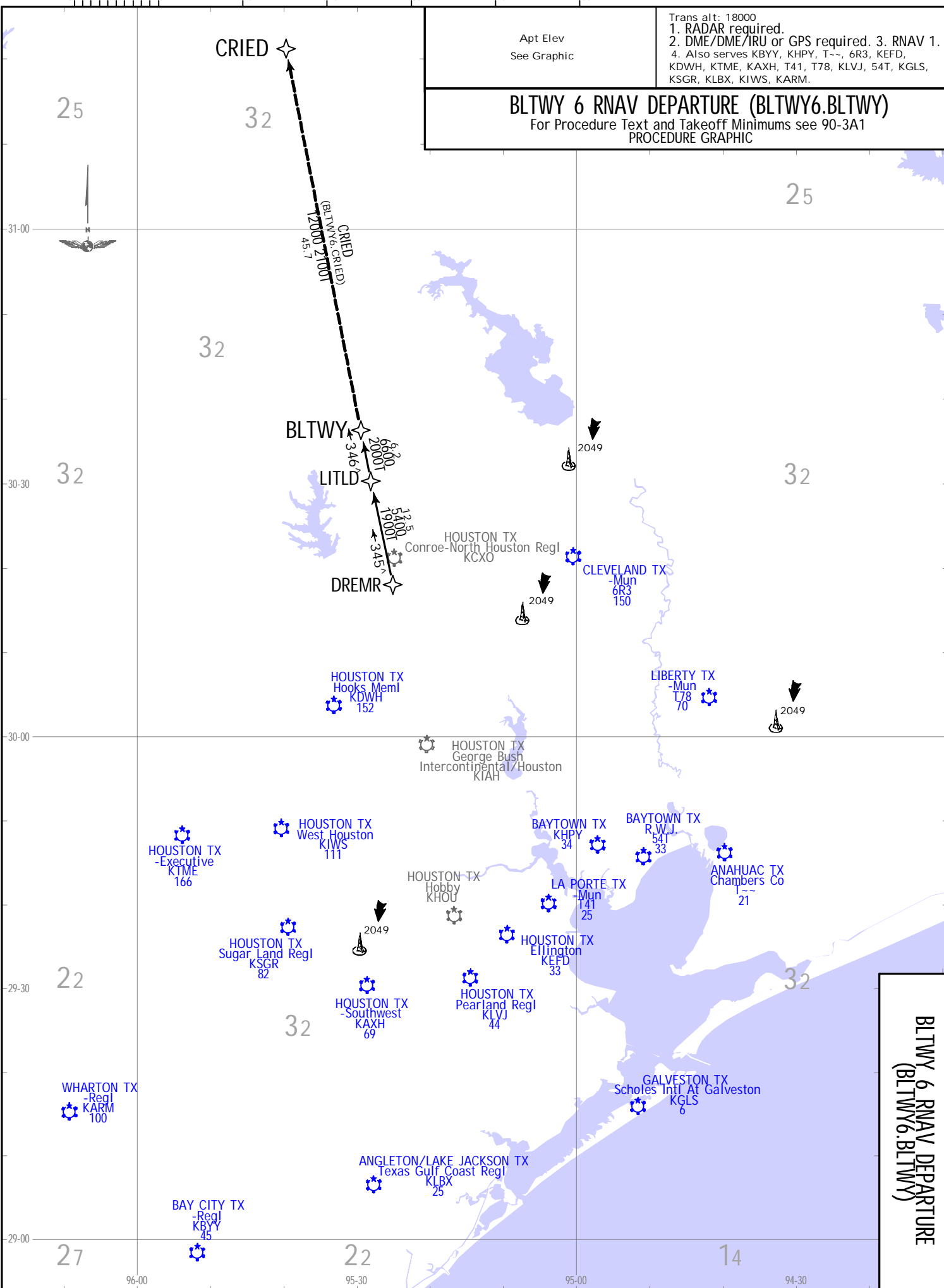
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwys 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively, with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient; takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

CHANGES: Reissue

AREA SID

Apt Elev See Graphic	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1. 4. Also serves KBYY, KHPY, T--, 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS, KARM.
BLTWY 6 RNAV DEPARTURE (BLTWY6.BLTWY) For Procedure Text and Takeoff Minimums see 90-3A1 PROCEDURE GRAPHIC	



BLTWY 6 RNAV DEPARTURE
(BLTWY6.BLTWY)

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AREA SID

BLTWY 6 RNAV DEPARTURE
(BLTWY6.BLTWY)

For Procedure Graphic see 90-3A
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwy 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwy 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwy 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwy 17L, 35R: Not authorized - Environmental.
Rwy 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
Waterways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwy 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwy 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwy 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwy 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
Rwy 14, 32: Not authorized - Environmental.
SCHOLLES INTL AT GALVESTON:
Rwy 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwy 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGL	Rwy 13: Climb heading 131° or as assigned by ATC for RADAR vectors to DREMR. Rwy 31: Climb heading 311° or as assigned by ATC for RADAR vectors to DREMR.	Assigned by ATC
BAYTOWN	Rwy 14: Climb heading 140° to 540 for RADAR vectors to DREMR. Rwy 32: Climb heading 320° to 540 for RADAR vectors to DREMR.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540 for RADAR vectors to DREMR. Rwy 30: Climb on heading 304° to 540 for RADAR vectors to DREMR.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400 for RADAR vectors to DREMR. Rwy 34: Climb on heading 312° to 2000 for RADAR vectors to DREMR.	
ELLINGTON	Rwy 4: Climb heading 039° to 540 for RADAR vectors to DREMR. Rwy 17L/R: Climb heading 174° to 540 for RADAR vectors to DREMR. Rwy 22: Climb heading 219° to 540 for RADAR vectors to DREMR. Rwy 35L/R: Climb heading 354° to 540 for RADAR vectors to DREMR.	
HOOKS MEML	Rwy 17R: Climb on heading 168° to 660 for RADAR vectors to DREMR. Rwy 35L: Climb on heading 348° to 660 for RADAR vectors to DREMR.	
HOUSTON EXECUTIVE	Rwy 18: Climb heading 175° to 680 for RADAR vectors to DREMR. Rwy 36: Climb heading 355° to 680 for RADAR vectors to DREMR.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 for RADAR vectors to DREMR. Rwy 27: Climb heading 269° to 2200 for RADAR vectors to DREMR.	
LA PORTE MUN	Rwy 5: Climb on heading 046° to 540 for RADAR vectors to DREMR. Rwy 12: Climb on heading 121° to 540 for RADAR vectors to DREMR. Rwy 23: Climb on heading 226° to 540 for RADAR vectors to DREMR. Rwy 30: Climb on heading 301° to 540 for RADAR vectors to DREMR.	
LIBERTY MUN	Rwy 16: Climb heading 161° to 1700 for RADAR vectors to DREMR. Rwy 34: Climb heading 341° to 1000 for RADAR vectors to DREMR.	
PEARLAND REGL	Rwy 14: Climb heading 142° to 1600 for RADAR vectors to DREMR. Rwy 32: Climb heading 322° to 700 for RADAR vectors to DREMR.	
R.W.J.	Rwy 8: Climb on heading 084° to 540 for RADAR vectors to DREMR. Rwy 26: Climb on heading 264° to 540 for RADAR vectors to DREMR.	
SCHOLLES INTL AT GALVESTON	Rwy 14: Climb on heading 138° to 520 for RADAR vectors to DREMR. Rwy 18: Climb on heading 179° to 520 for RADAR vectors to DREMR. Rwy 32: Climb on heading 318° to 520 for RADAR vectors to DREMR. Rwy 36: Climb on heading 359° to 520 for RADAR vectors to DREMR.	
SUGAR LAND REGL	Rwy 17: Climb on heading 170° to 1500 for RADAR vectors to DREMR. Rwy 35: Climb on heading 350° to 1100 for RADAR vectors to DREMR.	
TEXAS GULF COAST REGL	Rwy 17: Climb on heading 175° to 540 for RADAR vectors to DREMR. Rwy 35: Climb on heading 355° to 540 for RADAR vectors to DREMR.	
WEST HOUSTON	Rwy 15: Climb on heading 150° to 620 for RADAR vectors to DREMR. Rwy 33: Climb on heading 330° to 620 for RADAR vectors to DREMR.	
WHARTON REGL	Rwy 14: Climb heading 148° or as assigned by ATC for RADAR vectors to DREMR. Rwy 32: Climb heading 328° or as assigned by ATC for RADAR vectors to DREMR.	

ROUTING

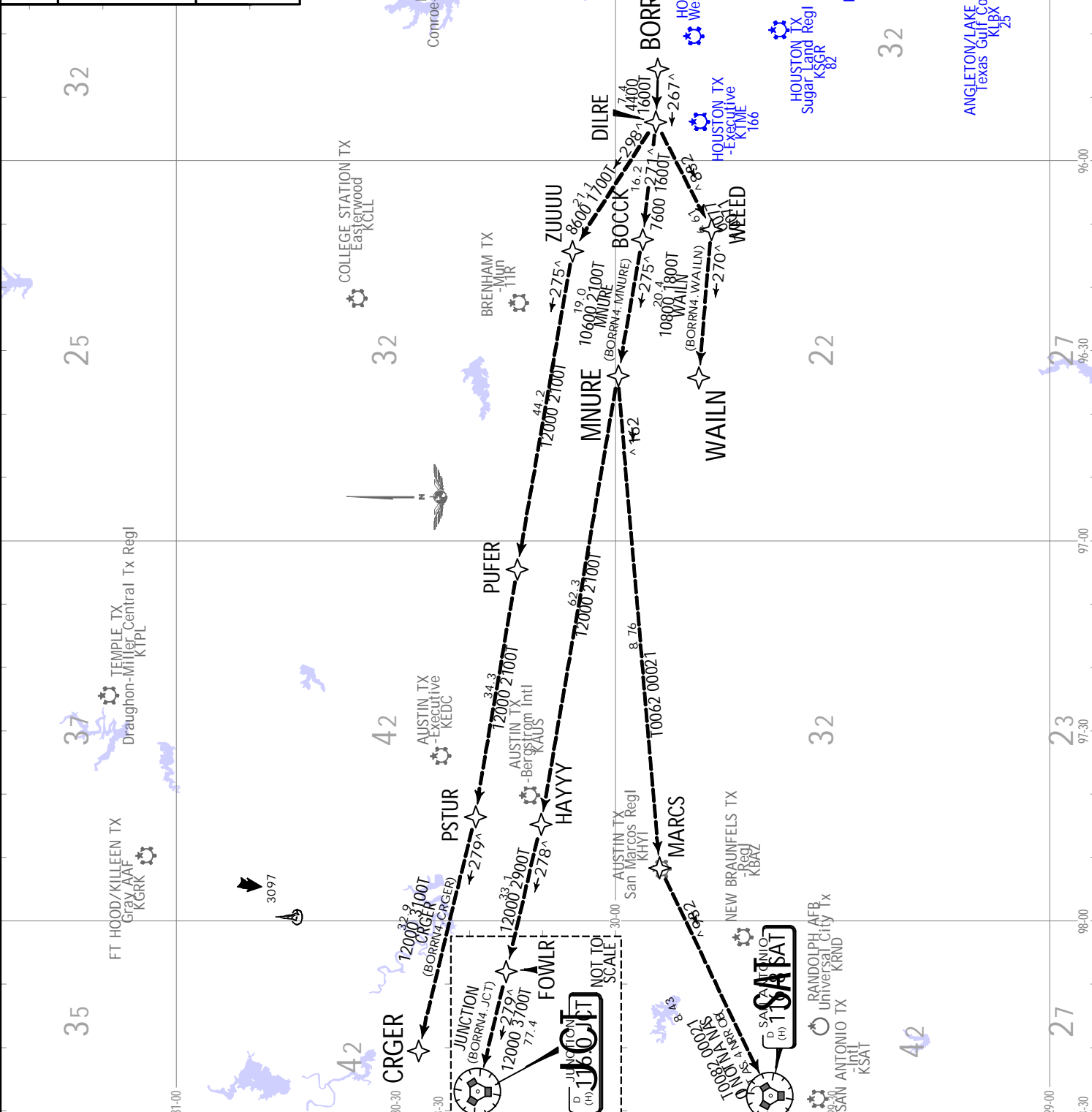
From DREMR on track 345° to LITLD, then on track 346° to BLTWY, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

Apt Elev
See Graphic

Trans alt: 18000.
1. **RADAR** required.
2. **DME/DME/IRU** or **GPS** required. 3. RNAV 1.
4. CRGR transition ATC assigned only for aircraft departing 54T, AXH, EFD, GLS, HPY, IWS, LXB, LVJ, SGR, TME, T--. T41. 5. Also serves KHPY, T--. 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS.

BORRN 4 RNAV DEPARTURE (BORRN4.BORRN)
For Procedure Text and Takeoff Minimums see 90-3B1 PROCEDURE GRAPHIC



**BORRN 4 RNAV DEPARTURE
(BORRN4.BORRN)**
For Procedure Graphic, see 90-3B
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

AIRPORTS SERVED	INITIAL CLIMB	TOP ALTITUDE
BAYTOWN	Rwy 14: Climb on heading 140° to 540, for RADAR vectors to BORRN.	
	Rwy 32: Climb on heading 320° to 540, for RADAR vectors to BORRN.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540, for RADAR vectors to BORRN.	
	Rwy 30: Climb on heading 304° to 540, for RADAR vectors to BORRN.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400, for RADAR vectors to BORRN.	
	Rwy 34: Climb on heading 337° to 2000, for RADAR vectors to BORRN.	
ELLINGTON	Rwy 4: Climb on heading 039° to 540, for RADAR vectors to BORRN.	
	Rwys 17L/R: Climb on heading 174° to 540, for RADAR vectors to BORRN.	
HOOKS MEML	Rwy 22: Climb on heading 219° to 540, for RADAR vectors to BORRN.	
	Rwys 35L/R: Climb on heading 354° to 540, for RADAR vectors to BORRN.	
HOUSTON EXECUTIVE	Rwy 17R: Climb on heading 168° to 660, for RADAR vectors to BORRN.	
	Rwy 35L: Climb on heading 348° to 660, for RADAR vectors to BORRN.	
HOUSTON-SOUTHWEST	Rwy 18: Climb on heading 175° to 680, for RADAR vectors to BORRN.	
	Rwy 36: Climb on heading 355° to 680, for RADAR vectors to BORRN.	
LA PORTE MUN	Rwy 9: Climb heading 089° to 2000, for RADAR vectors to BORRN.	
	Rwy 27: Climb heading 269° to 2200, for RADAR vectors to BORRN.	
LIBERTY MUN	Rwy 5: Climb on heading 046° to 540, for RADAR vectors to BORRN.	
	Rwy 12: Climb on heading 121° to 540, for RADAR vectors to BORRN.	
PEARLAND REGL	Rwy 23: Climb on heading 226° to 540, for RADAR vectors to BORRN.	
	Rwy 30: Climb on heading 301° to 540, for RADAR vectors to BORRN.	
R.W.J.	Rwy 16: Climb on heading 161° to 1700, for RADAR vectors to BORRN.	
	Rwy 34: Climb on heading 341° to 1000, for RADAR vectors to BORRN.	
SCHOLLES INTL AT GALVESTON	Rwy 14: Climb on heading 142° to 1600, for RADAR vectors to BORRN.	
	Rwy 32: Climb on heading 322° to 900, for RADAR vectors to BORRN.	
SUGAR LAND REGL	Rwy 8: Climb on heading 084° to 540, for RADAR vectors to BORRN.	
	Rwy 26: Climb on heading 264° to 540, for RADAR vectors to BORRN.	
TEXAS GULF COAST REGL	Rwy 14: Climb on heading 138° to 520, for RADAR vectors to BORRN.	
	Rwy 18: Climb on heading 179° to 520, for RADAR vectors to BORRN.	
WEST HOUSTON	Rwy 32: Climb on heading 318° to 520, for RADAR vectors to BORRN.	
	Rwy 36: Climb on heading 359° to 520, for RADAR vectors to BORRN.	

Assigned by
ATC

ROUTING


From BORRN on track 267° to DILRE, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: NA - Environmental.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
SCHOLLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

CHANGES: Reissue

AREA SID

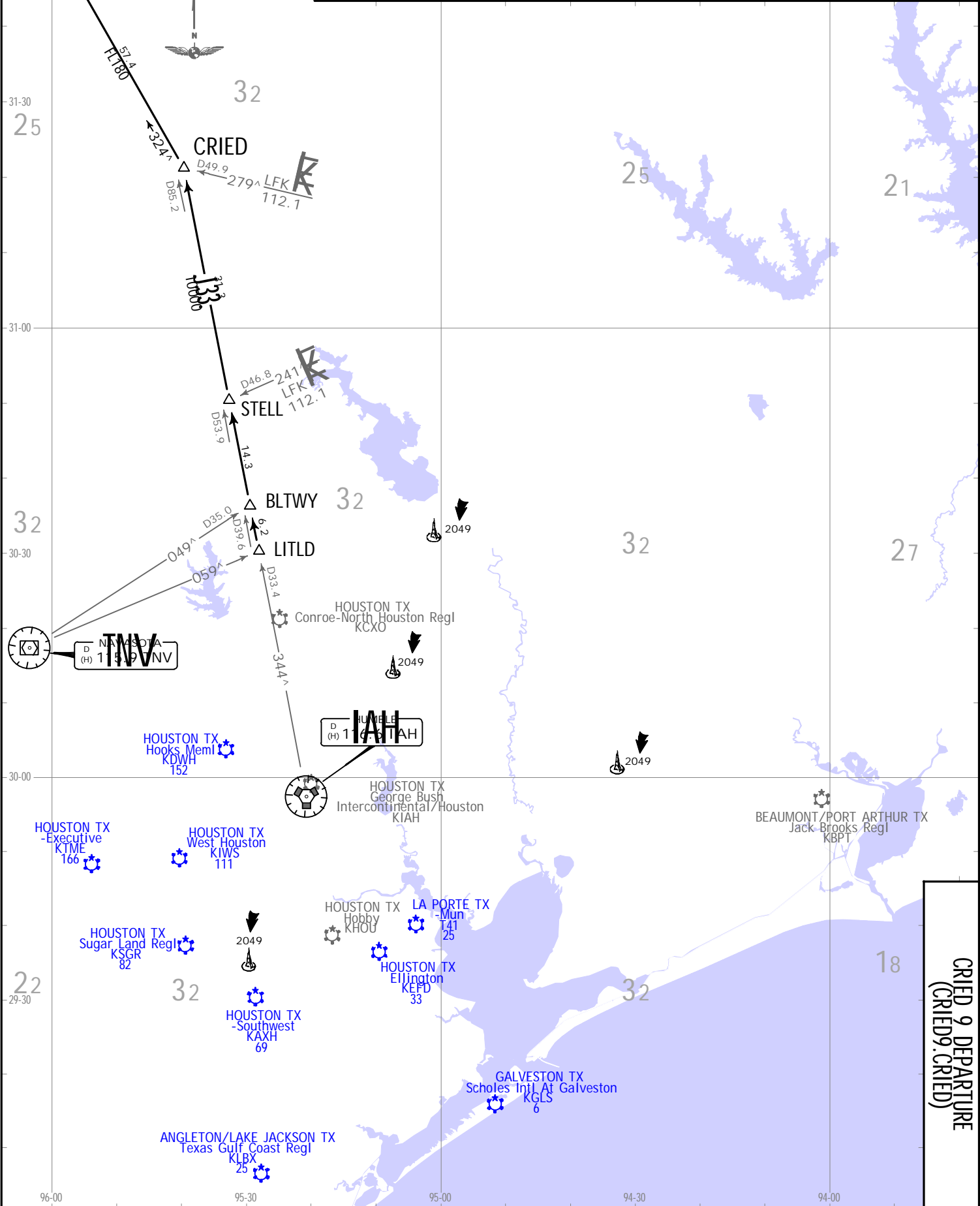

CCY
 CEDAR CREEK
 (L) 114.8
 (F) 118.1

NOT TO SCALE

Apt Elev
See Graphic

Trans alt: 18000
 1. RADAR required.
 2. Also serves KEFD, KDWH, KTME, KAXH, T41,
 KGLS, KSGR, KLBX, KIWS.

CRIED 9 DEPARTURE (CRIED9.CRIED)
 For Procedure Text and Takeoff Minimums see 90-3C1
 PROCEDURE GRAPHIC



15 NOV 19
 90-3C
CRIED 9 DEPARTURE (CRIED9.CRIED)
 AREA SID
HOUSTON METROPLEX TEXAS
JEPPESSEN

**CRIED 9 DEPARTURE
(CRIED9.CRIED)**

For Procedure Graphic see 90-3C
PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwy 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively, with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient, takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized-air traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

TAKEOFF OBSTACLE NOTES

See TAKEOFF OBSTACLE NOTES page (90-3OB1).

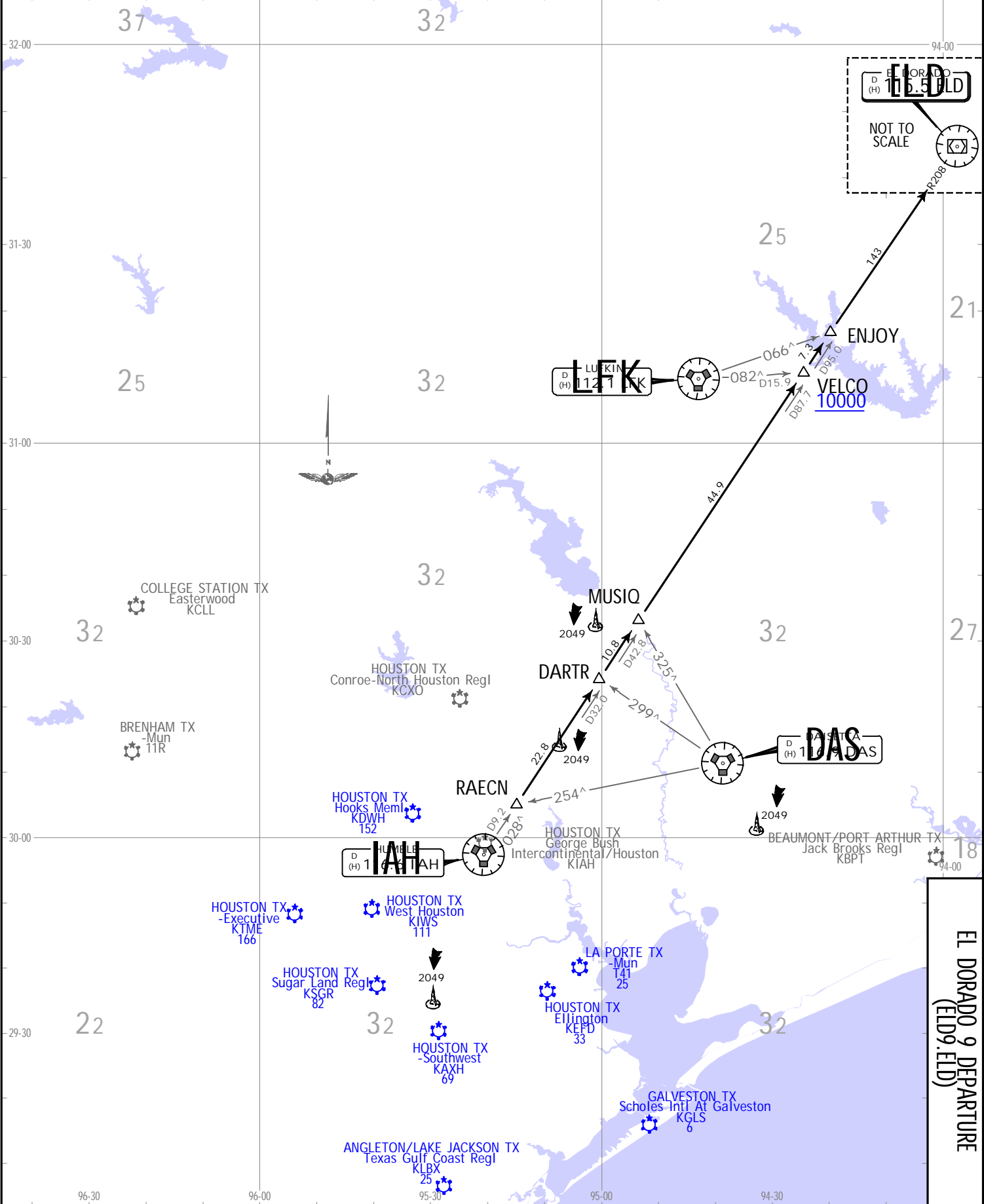
Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to LITLD.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From LITLD on IAH R344 to STELL, then on IAH R344 to CRIED, then LEFT turn on COY R144 to COY VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From LITLD on IAH R344, to STELL, then on IAH R344 to CRIED, then LEFT turn on COY R144 to COY VOR.	Assigned by ATC

CHANGES: Reissue

Apt Elev See Graphic	Trans alt: 18000 1. RADAR required. 2. For aircraft destined Memphis Intl (MEM) or filed on Q-32 or J-42. 3. Also serves KEFD, KDWH, KTME, KAXH, T41, KGLS, KSGR, KLBX, KIWS.
EL DORADO 9 DEPARTURE (ELD9.ELD) For Procedure Text and Takeoff Minimums see 90-3D1 PROCEDURE GRAPHIC	

AREA SID



EL DORADO 9 DEPARTURE (ELD9.ELD)

15 NOV 19 (90-3D) JEPPIEN HOUSTON METROPLEX TEXAS SID

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**EL DORADO 9 DEPARTURE
(ELD9,ELD)**
For Procedure Graphic see 90-3D
PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwy 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) take-off minimums and a normal 200 per NM climb gradient, take-off must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
 Waterways 17, 35: Not Authorized-air traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwy 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON:
 Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwy 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to RAEEN.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From RAEEN on IAH R028 and the ELD R208 to ELD VOR, cross VELCO at or above 10000.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to RAEEN. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From RAEEN on IAH R028 and the ELD R208 to ELD VOR, cross VELCO at or above 10000.	Assigned by ATC

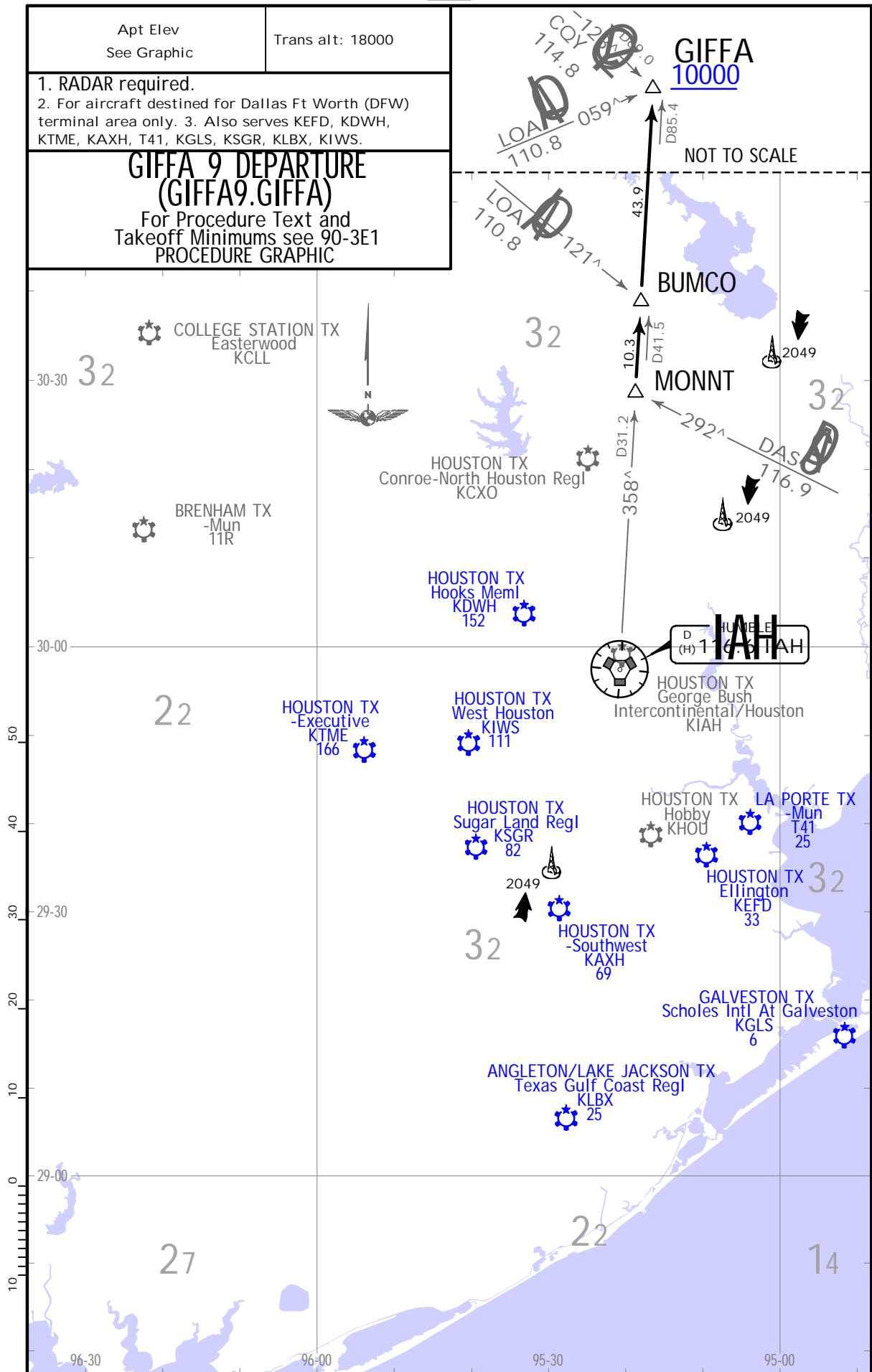
HOUSTON METROPLEX, TEXAS
.SID.



AREA SID

15 NOV 19 (90-3E)

Apt Elev See Graphic	Trans alt: 18000
1. RADAR required. 2. For aircraft destined for Dallas Ft Worth (DFW) terminal area only. 3. Also serves KEFD, KDWH, KTME, KAXH, T41, KGLS, KSGR, KLBX, KIWS.	
<p>GIFFA 9 DEPARTURE (GIFFA9.GIFFA) For Procedure Text and Takeoff Minimums see 90-3E1 PROCEDURE GRAPHIC</p>	



CHANGES: Reissue.



15 NOV 19 90-3E1

AREA SID

GIFFA 9 DEPARTURE (GIFFA9.GIFFA)

For Procedure Graphic see 90-3E PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwy 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient, takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
 Waterways 17, 35: Not Authorized - air traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

TAKEOFF OBSTACLE NOTES

See TAKEOFF OBSTACLE NOTES page (90-3OB1).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to MONNT.	Assigned by ATC
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to MMONT. Rwy 36: Climb heading 355^ to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089^ to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT. Rwy 27: Climb heading 269^ to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT.	
LA PORTE MUN	Rwy 5: Climb heading 046^ to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT. Rwy 12: Climb heading 121^ to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT. Rwy 30: Climb heading 301^ to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT.	
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to MMONT. Rwy 32: Climb heading 318^ to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT.	
SUGAR LAND REGL	Rwy 17: Climb heading 170^ to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT. Rwy 35: Climb heading 350^ to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT.	

ROUTING

MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From MONNT on IAH R358 to cross GIFFA at or above 10000.

ALL OTHER AIRPORTS	TOP ALTITUDE
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to MMONT. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From MONNT on IAH R358 to cross GIFFA at or above 10000.

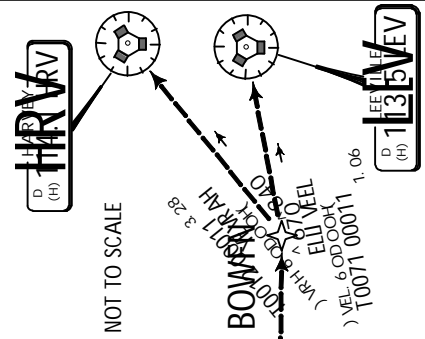
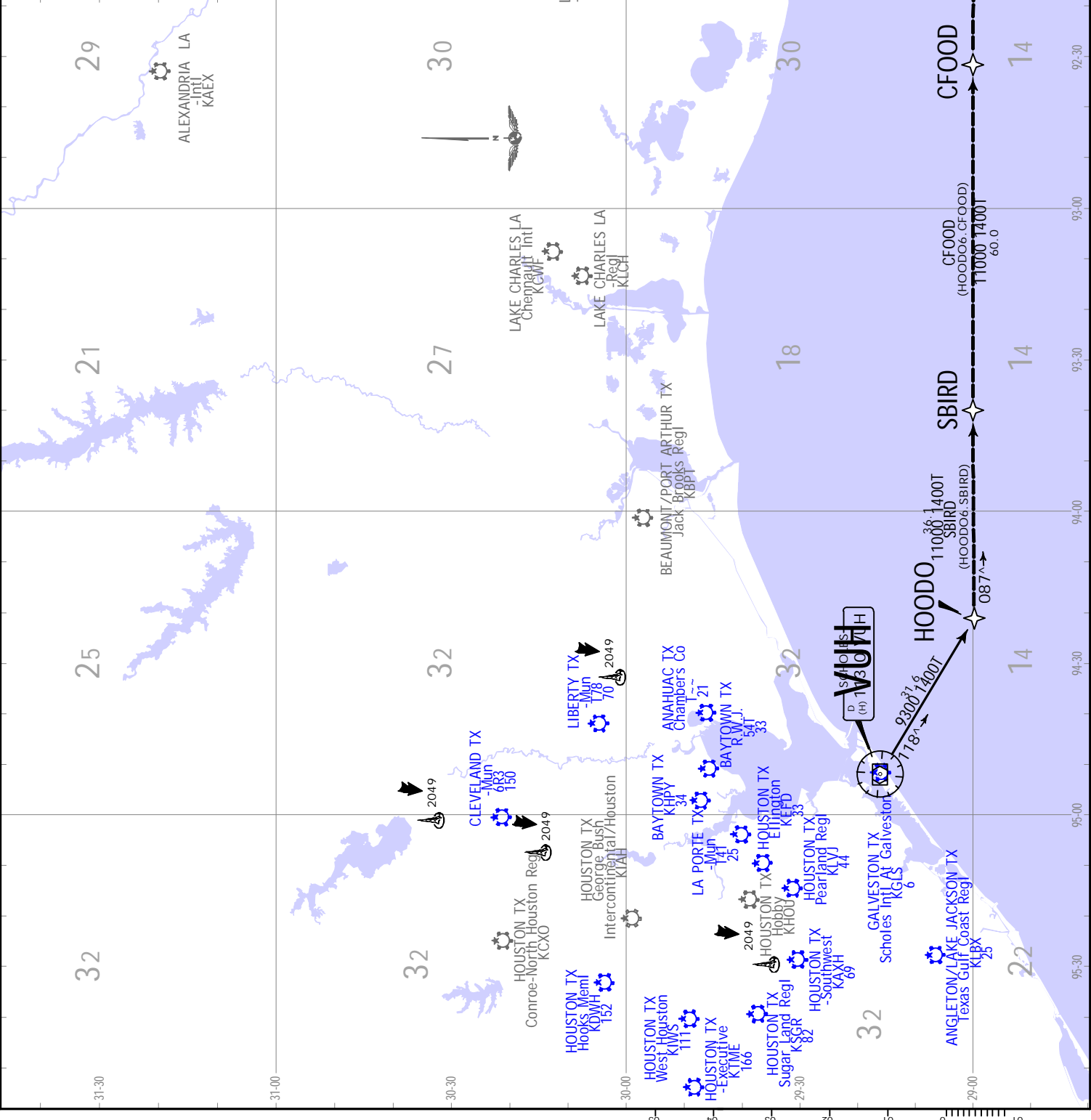
HOUSTON METROPLEX TEXAS
JEPPESEN
 15 NOV 19 (90-3E) .RNAV.SID

Apt Elev
 See Graphic

Trans alt: 18000.
 1. **RADAR** required.
 2. **DME/DME/IRU** or **GPS** required. 3. RNAV 1.
 4. ATC assigned only. 5. For non-GPS equipped aircraft LCH, LEV, LLA and TBD DMEs must be operational. 6. Also serves KHPY, T--, GR3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS.

HOODO 6 RNAV DEPARTURE (HOODO6.HOODO)

For Procedure Text and Takeoff Minimums see 90-3F1 PROCEDURE GRAPHIC



AREA SID

**HOODO 6 RNAV DEPARTURE
(HOODO6.HOODO)**

For Procedure Graphic see 90-3F
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAYTOWN: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwy 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwy 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwy 17L, 35R: Not authorized - Environmental.
Rwy 17R, 35L: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.
Waterways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwy 18, 36: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwy 9, 27: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwy 5, 12, 23, 30: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
R.W.J.: Rwy 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
Rwy 14, 32: Not authorized - Environmental.
SCHOLES INTL AT GALVESTON: Rwy 14, 18, 32, 36: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwy 15, 33: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 620.

Grd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAYTOWN	Rwy 14: Climb heading 140° to 540.	
	Rwy 32: Climb heading 320° to 540.	
CHAMBERS CO	Rwy 12: Climb heading 124° to 540.	
	Rwy 30: Climb heading 304° to 540.	
CLEVELAND MUN	Rwy 16: Climb heading 157° to 1400.	
	Rwy 34: Climb heading 312° to 2000.	
ELLINGTON	Rwy 4: Climb heading 039° to 540.	
	Rwy 17L/R: Climb heading 174° to 540.	
	Rwy 22: Climb heading 219° to 540.	
	Rwy 35L/R: Climb heading 354° to 540.	
HOOKS MEML	Rwy 17R: Climb heading 168° to 660.	
	Rwy 35L: Climb heading 348° to 660.	
HOUSTON EXECUTIVE	Rwy 18: Climb heading 175° to 680.	
	Rwy 36: Climb heading 355° to 700.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000.	
	Rwy 27: Climb heading 269° to 2200.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 540.	Assigned by ATC
	Rwy 12: Climb heading 121° to 540.	
LIBERTY MUN	Rwy 23: Climb heading 226° to 540.	
	Rwy 30: Climb heading 301° to 540.	
PEARLAND REGL	Rwy 16: Climb heading 161° to 1700.	
	Rwy 34: Climb heading 341° to 1000.	
R. W. J.	Rwy 14: Climb heading 142° to 1600.	
	Rwy 32: Climb heading 322° to 700.	
SCHOLES INTL AT GALVESTON	Rwy 8: Climb heading 084° to 540.	
	Rwy 26: Climb heading 264° to 540.	
SUGAR LAND REGL	Rwy 14: Climb heading 138° to 520.	
	Rwy 18: Climb heading 179° to 520.	
	Rwy 32: Climb heading 318° to 520.	
	Rwy 36: Climb heading 359° to 520.	
TEXAS GULF COAST REGL	Rwy 17: Climb heading 170° to 1500.	
	Rwy 35: Climb heading 350° to 1100.	
WEST HOUSTON	Rwy 17: Climb heading 175° to 540.	
	Rwy 35: Climb heading 355° to 540.	
WEST HOUSTON	Rwy 15: Climb heading 150° to 620.	
	Rwy 33: Climb heading 330° to 620.	

ROUTING
 For RADAR vector's to VUH VOR, then on track 118° to HOODO, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

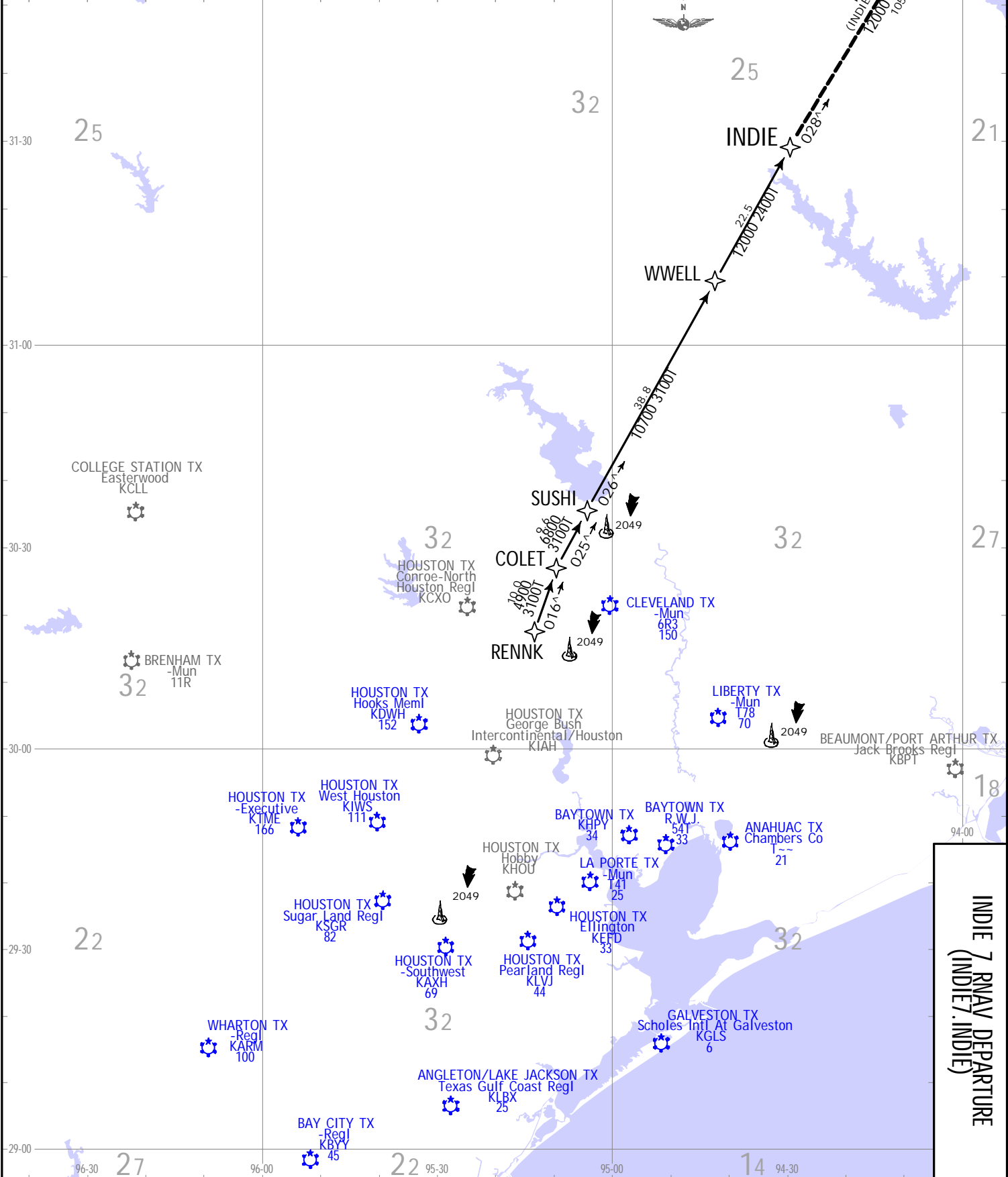
CHANGES: Reissue

AREA SID

Apt Elev
See Graphic

Trans alt: 18000
 1. RADAR required.
 2. DME/DME/IRU or GPS required. 3. RNAV 1.
 4. TPAKK transition: For non-GPS equipped aircraft TNV DME must be operational.
 5. Also serves KBYY, KHPY, T-- , 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS, KARM.

INDIE 7 RNAV DEPARTURE (INDIE7.INDIE)
 For Procedure Text and Takeoff Minimums see 90-3G1 PROCEDURE GRAPHIC



INDIE 7 RNAV DEPARTURE (INDIE7.INDIE)

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**INDIE 7 RNAV DEPARTURE
(INDIE7.INDIE)**

For Procedure Graphic see 90-3G
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwys 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: Not authorized - Environmental.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.

AIRPORT	INITIAL CLIMB	TOP ALTITUDE	
BAY CITY REGL	Rwy 13: Climb heading 131° to 560 for RADAR vectors to RENNK. Rwy 31: Climb heading 311° to 560 for RADAR vectors to RENNK.	Assigned by ATC	
BAYTOWN	Rwy 14: Climb heading 140° to 540 for RADAR vectors to RENNK. Rwy 32: Climb heading 320° to 540 for RADAR vectors to RENNK.		
CHAMBERS CO	Rwy 12: Climb heading 124° to 540 for RADAR vectors to RENNK. Rwy 30: Climb heading 304° to 540 for RADAR vectors to RENNK.		
CLEVELAND MUN	Rwy 16: Climb heading 157° to 1400 for RADAR vectors to RENNK. Rwy 34: Climb heading 312° to 2000 for RADAR vectors to RENNK.		
ELLINGTON	Rwy 4: Climb heading 039° to 540 for RADAR vectors to RENNK. Rwys 17L/R: Climb heading 174° to 540 for RADAR vectors to RENNK. Rwy 22: Climb heading 219° to 540 for RADAR vectors to RENNK. Rwys 35L/R: Climb heading 354° to 540 for RADAR vectors to RENNK.		
HOOKS MEML	Rwy 17R: Climb heading 168° to 660 for RADAR vectors to RENNK. Rwy 35L: Climb heading 348° to 660 for RADAR vectors to RENNK.		
HOUSTON EXECUTIVE	Rwy 18: Climb heading 175° to 680 for RADAR vectors to RENNK. Rwy 36: Climb heading 355° to 680 for RADAR vectors to RENNK.		
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 for RADAR vectors to RENNK. Rwy 27: Climb heading 269° to 2200 for RADAR vectors to RENNK.		
LA PORTE MUN	Rwy 5: Climb heading 046° to 540 for RADAR vectors to RENNK. Rwy 12: Climb heading 121° to 540 for RADAR vectors to RENNK. Rwy 23: Climb heading 226° to 540 for RADAR vectors to RENNK. Rwy 30: Climb heading 301° to 540 for RADAR vectors to RENNK.		
LIBERTY MUN	Rwy 16: Climb heading 161° to 1700 for RADAR vectors to RENNK. Rwy 34: Climb heading 341° to 1000 for RADAR vectors to RENNK.		
PEARLAND REGL	Rwy 14: Climb heading 142° to 1600 for RADAR vectors to RENNK. Rwy 32: Climb heading 322° to 700 for RADAR vectors to RENNK.		
R.W.J.	Rwy 8: Climb heading 084° to 540 for RADAR vectors to RENNK. Rwy 26: Climb heading 264° to 540 for RADAR vectors to RENNK.		
SCHOLES INTL AT GALVESTON	Rwy 14: Climb heading 138° to 520 for RADAR vectors to RENNK. Rwy 18: Climb heading 179° to 520 for RADAR vectors to RENNK. Rwy 32: Climb heading 318° to 520 for RADAR vectors to RENNK. Rwy 36: Climb heading 359° to 520 for RADAR vectors to RENNK.		
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 for RADAR vectors to RENNK. Rwy 35: Climb heading 350° to 1100 for RADAR vectors to RENNK.		
TEXAS GULF COAST REGL	Rwy 17: Climb heading 175° to 540 for RADAR vectors to RENNK. Rwy 35: Climb heading 355° to 540 for RADAR vectors to RENNK.		
WEST HOUSTON	Rwy 15: Climb heading 150° to 620 for RADAR vectors to RENNK. Rwy 33: Climb heading 330° to 620 for RADAR vectors to RENNK.		
WHARTON REGL	Rwy 14: Climb heading 148° to 600 for RADAR vectors to RENNK. Rwy 32: Climb heading 328° to 600 for RADAR vectors to RENNK.		
ROUTING			
From RENNK on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.			

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

**INDUSTRY 9 DEPARTURE
(IDU9.IDU)**
For Procedure Graphic see 90-3H
PROCEDURE TEXT

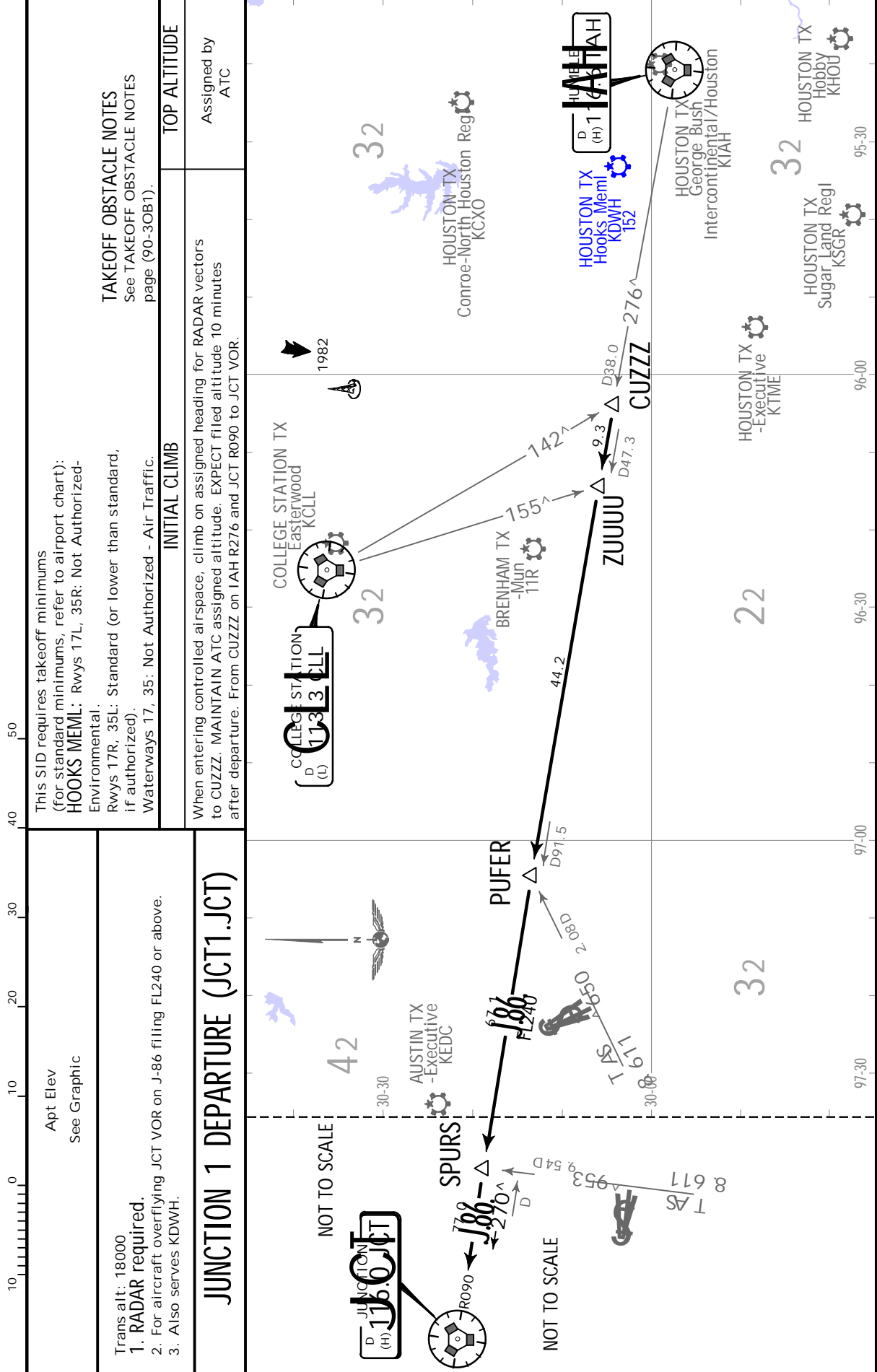
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwys 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient, takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-Environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to SHYNR.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From SHYNR on IDU R085 to BOCCK, then on IDU R085 to IDU VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From SHYNR on IDU R085 to BOCCK, then on IDU R085 to IDU VOR.	Assigned by ATC

AREA SID



This SID requires takeoff minimums (for standard minimums, refer to airport chart):
HOOKS MEML: Rwy 17L, 35R: Not Authorized-Environmental.
Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized - Air Traffic.

INITIAL CLIMB
When entering controlled airspace, climb on assigned heading for RADAR vectors to CUZZZ. MAINTAIN ATC assigned altitude. EXPECT filled altitude 10 minutes after departure. From CUZZZ on IAH R276 and JCT R090 to JCT VOR.

TOP ALTITUDE
Assigned by ATC

Apt Elev
See Graphic

Trans alt: 18000
1. RADAR required.
2. For aircraft overflying JCT VOR on J-86 filing FL240 or above.
3. Also serves KDWH.

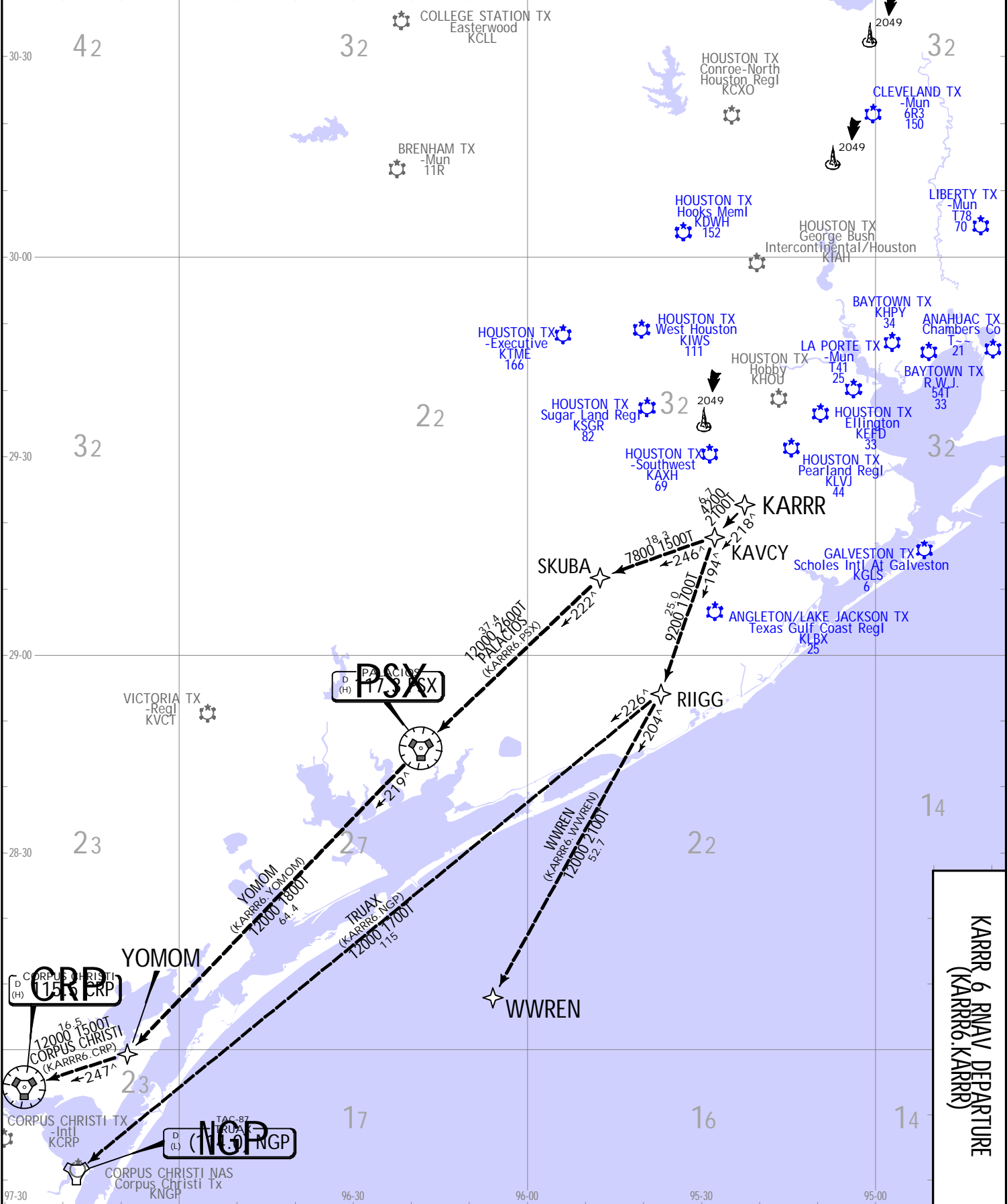
JUNCTION 1 DEPARTURE (JCT1.JCT)

CHANGES: New format.

CHANGES: Procedure remainder ed. NGP VORTAC now TACAN

AREA SID

Apt Elev See Graphic	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1. 4. Also serves KHPY, T--, 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS.
<h3>KARRR 6 RNAV DEPARTURE (KARRR6.KARRR)</h3> For Procedure Text and Takeoff Minimums see 90-3K1 PROCEDURE GRAPHIC	



KARRR 6 RNAV DEPARTURE
(KARRR6.KARRR)

HOUSTON METROPLEX TEXAS
JEPPESSEN
29 NOV 19 90-3K1 . EFF: 5. Dec. . RNAV.SID.

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**KARRR 6 RNAV DEPARTURE
 (KARRR6.KARRR)**

For Procedure Graphic, see 90-3K
 PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES

See TAKEOFF OBSTACLE NOTES page (90-30B1).

AIRPORTS SERVED	INITIAL CLIMB	TOP ALTITUDE
BAYTOWN	Rwy 14: Climb on heading 140° to 540, for RADAR vectors to KARRR.	
	Rwy 32: Climb on heading 320° to 540, for RADAR vectors to KARRR.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540, for RADAR vectors to KARRR.	
	Rwy 30: Climb on heading 304° to 540, for RADAR vectors to KARRR.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400, for RADAR vectors to KARRR.	
	Rwy 34: Climb on heading 337° to 2000, for RADAR vectors to KARRR.	
ELLINGTON	Rwy 4: Climb on heading 039° to 540, for RADAR vectors to KARRR.	
	Rwys 17L/R: Climb on heading 174° to 540, for RADAR vectors to KARRR.	
HOOKS MEMIL	Rwy 22: Climb on heading 219° to 540, for RADAR vectors to KARRR.	
	Rwys 35L/R: Climb on heading 354° to 540, for RADAR vectors to KARRR.	
HOUSTON EXECUTIVE	Rwy 17R: Climb on heading 168° to 660, for RADAR vectors to KARRR.	
	Rwy 35L: Climb on heading 348° to 660, for RADAR vectors to KARRR.	
HOUSTON-SOUTHWEST	Rwy 18: Climb on heading 175° to 680, for RADAR vectors to KARRR.	
	Rwy 36: Climb on heading 355° to 680, for RADAR vectors to KARRR.	
LA PORTE MUN	Rwy 9: Climb on heading 089° to 2000, for RADAR vectors to KARRR.	Assigned by ATC
	Rwy 5: Climb on heading 046° to 540, for RADAR vectors to KARRR.	
LIBERTY MUN	Rwy 12: Climb on heading 121° to 540, for RADAR vectors to KARRR.	
	Rwy 23: Climb on heading 226° to 540, for RADAR vectors to KARRR.	
PEARLAND REGL	Rwy 30: Climb on heading 301° to 540, for RADAR vectors to KARRR.	
	Rwy 16: Climb on heading 161° to 1700, for RADAR vectors to KARRR.	
R.W.J.	Rwy 34: Climb on heading 341° to 1000, for RADAR vectors to KARRR.	
	Rwy 14: Climb on heading 142° to 1600, for RADAR vectors to KARRR.	
SCHOLLES INTL AT GALVESTON	Rwy 32: Climb on heading 322° to 900, for RADAR vectors to KARRR.	
	Rwy 8: Climb on heading 084° to 540, for RADAR vectors to KARRR.	
SUGAR LAND REGL	Rwy 26: Climb on heading 264° to 540, for RADAR vectors to KARRR.	
	Rwy 14: Climb on heading 138° to 520, for RADAR vectors to KARRR.	
TEXAS GULF COAST REGL	Rwy 18: Climb on heading 179° to 520, for RADAR vectors to KARRR.	
	Rwy 32: Climb on heading 318° to 520, for RADAR vectors to KARRR.	
WEST HOUSTON	Rwy 36: Climb on heading 359° to 520, for RADAR vectors to KARRR.	
	Rwy 17: Climb on heading 170° to 1500, for RADAR vectors to KARRR.	
	Rwy 35: Climb on heading 350° to 1100, for RADAR vectors to KARRR.	
	Rwy 17: Climb on heading 175° to 540, for RADAR vectors to KARRR.	
	Rwy 35: Climb on heading 355° to 540, for RADAR vectors to KARRR.	
	Rwy 15: Climb on heading 150° to 620, for RADAR vectors to KARRR.	
	Rwy 33: Climb on heading 330° to 620, for RADAR vectors to KARRR.	

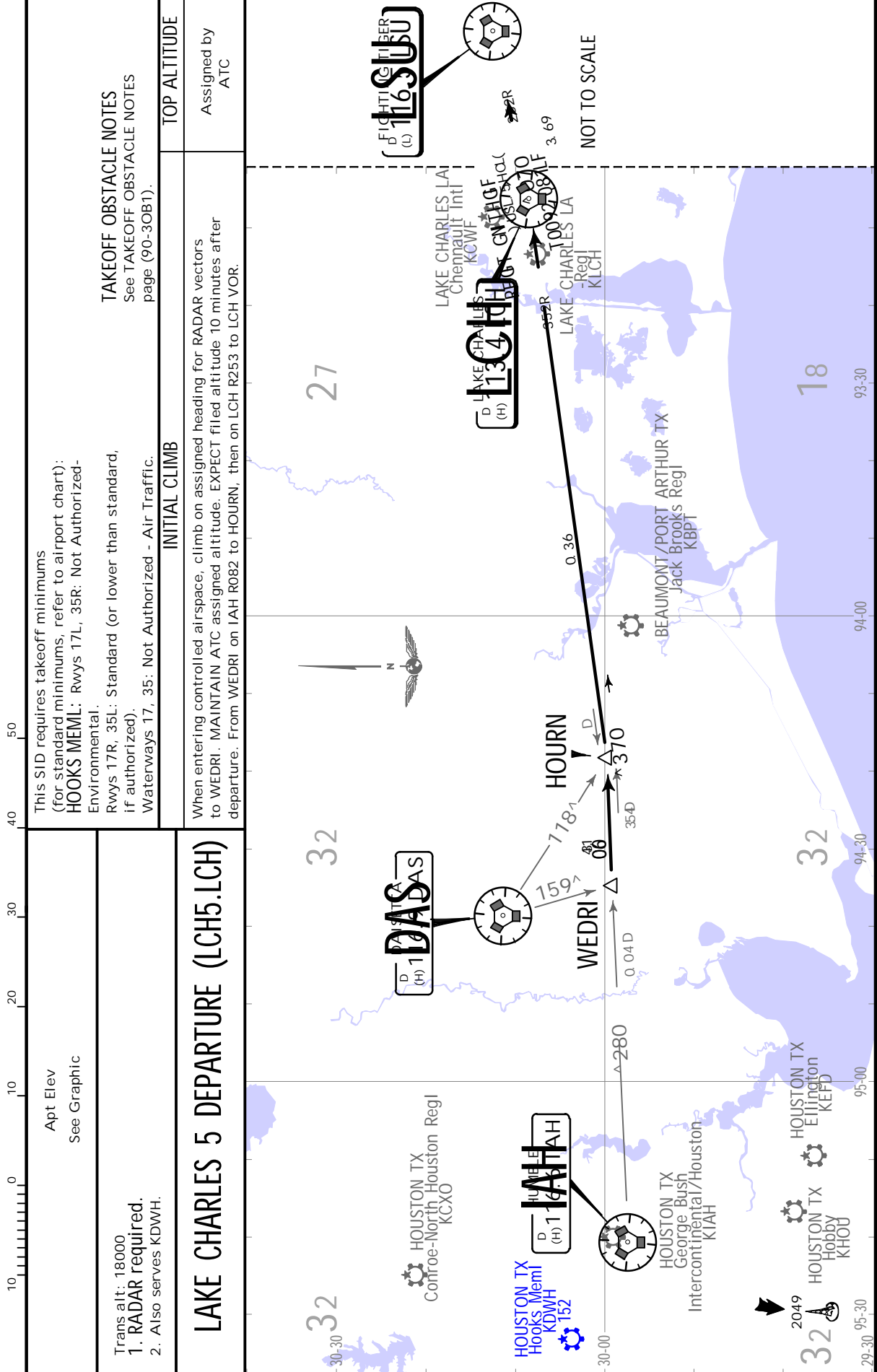
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEMIL: Rwys 17L, 35R: Not Authorized - Environmental.
HOUSTON EXECUTIVE: Rwys 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
HOUSTON-SOUTHWEST: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
SCHOLLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

ROUTING

From KARRR on track 218° to KAVCY, then on transition. MAINTAIN ATC assigned altitude. EXPECT Filed altitude 10 minutes after departure.

AREA SID



LAKE CHARLES 5 DEPARTURE (LCH5.LCH)

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

INITIAL CLIMB

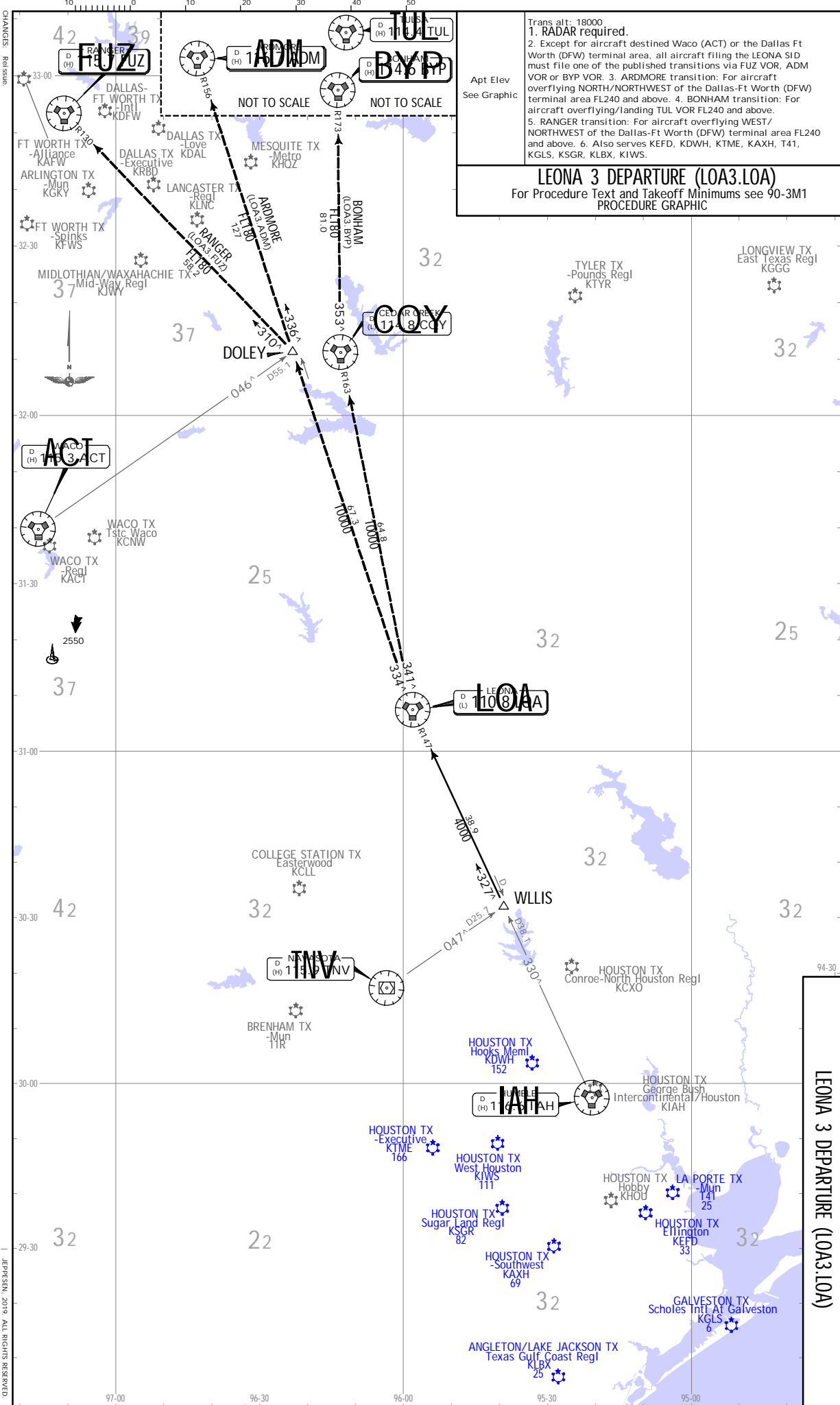
This SID requires takeoff minimums (for standard minimums, refer to airport chart):
HOOKS MEML: Rwy 17L, 35R: Not Authorized-Environmental.
Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized - Air Traffic.

TOP ALTITUDE

Assigned by ATC

When entering controlled airspace, climb on assigned heading for RADAR vectors to WEDRI. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From WEDRI on IAH R082 to HOURN, then on LCH R253 to LCH VOR.

CHANGES: New format.



Trans alt: 18000
 1. RADAR required.
 2. Except for aircraft destined Waco (ACT) or the Dallas Ft Worth (DFW) terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZZ VOR, ADM VOR or BYP VOR. 3. ARDMORE transition: For aircraft overflying NORTH/NORTHWEST of the Dallas-Ft Worth (DFW) terminal area FL240 and above. 4. BONHAM transition: For aircraft overflying/landing TUL VOR FL240 and above. 5. RANGER transition: For aircraft overflying WEST/NORTHWEST of the Dallas-Ft Worth (DFW) terminal area FL240 and above. 6. Also serves KEFD, KDWH, KTME, KAXH, T41, KGLS, KSGR, KLBX, KIWS.

Apt Elev
 See Graphic

LEONA 3 DEPARTURE (LOA3.LOA)
 For Procedure Text and Takeoff Minimums see 90-3M1
 PROCEDURE GRAPHIC

AREA SID
 LEONA 3 DEPARTURE (LOA3.LOA)
 15 NOV 19 (90-3M)
 HOUSTON METROPLEX TEXAS .SID.

LEONA 3 DEPARTURE (LOA3.LOA)

For Procedure Graphic See 90-3M PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwy 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient; takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-Environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

TAKEOFF OBSTACLE NOTES

See TAKEOFF OBSTACLE NOTES page (90-3OB1).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to WLLIS.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From WLLIS on LOA R147 to LOA VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From WLLIS on LOA R147 to LOA VOR.	TOP ALTITUDE Assigned by ATC

CHANGES: Reissue

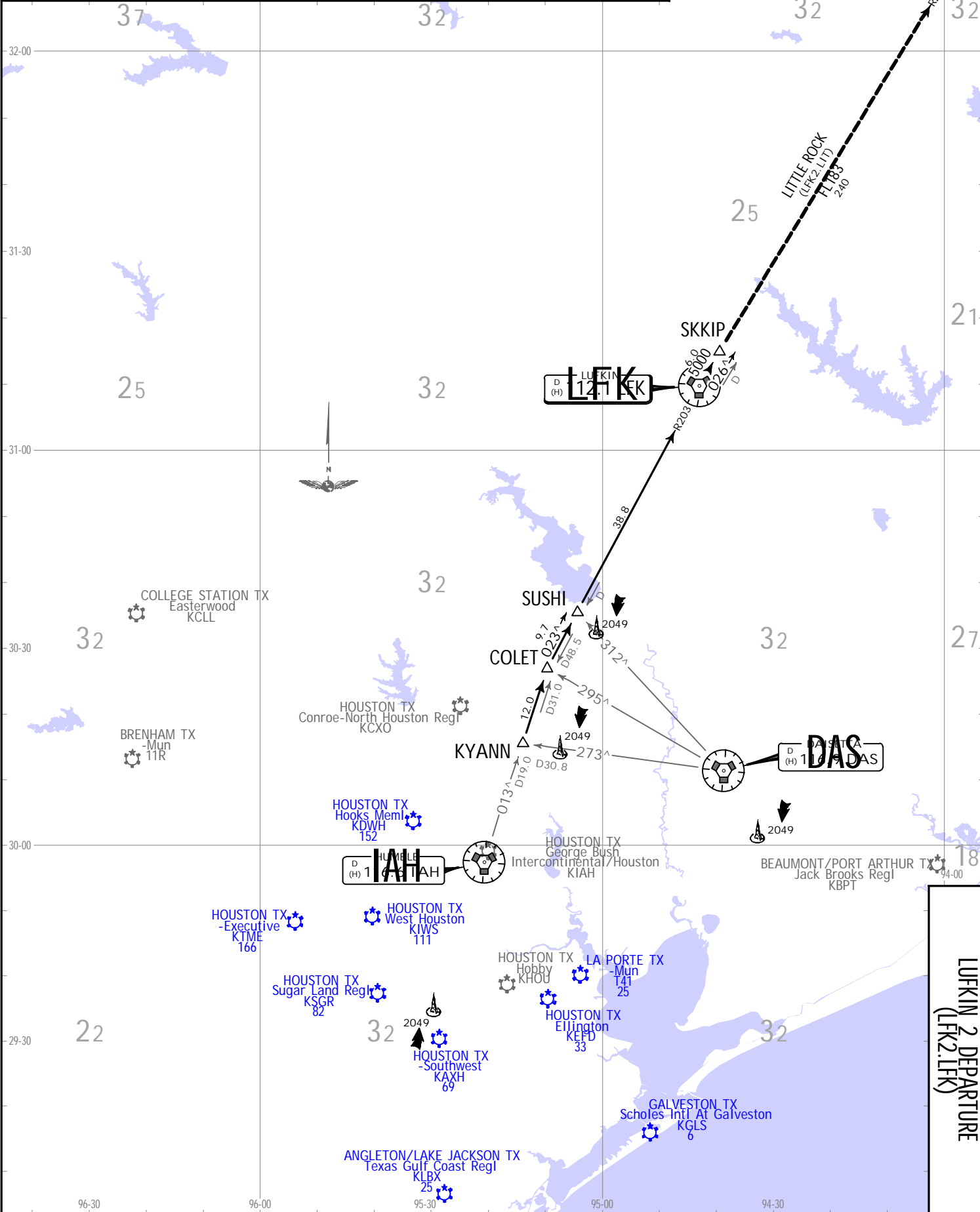
Apt Elev
See Graphic

Trans alt: 18000
1. RADAR and DME required.
2. For aircraft destined LIT, or overflying LIT or PXV.
3. Also serves KEFD, KDWH, KTME, KAXH, T41, KGLS, KSGR, KLBX, KIWS.

LUFKIN 2 DEPARTURE (LFK2.LFK)
For Procedure Text and Takeoff Minimums see 90-3N1
PROCEDURE GRAPHIC

LITTLE ROCK
D (H) 13.9 LIT

AREA SID



15 NOV 19 (90-3N1)

JEPPESSEN

HOUSTON METROPLEX TEXAS

LUFKIN 2 DEPARTURE (LFK2.LFK)

SID

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**LUFKIN 2 DEPARTURE
(LFK2.LFK)**
For Procedure Graphic see 90-3N
PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
ELLINGTON: Rwy 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient, takeoff must occur no later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not Authorized-Environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
Waterways 17, 35: Not Authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
SCHOLES INTL AT GALVESTON:
 Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwy 15, 33: Standard (or lower than standard, if authorized).

Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to KYANN.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN.	Assigned by ATC
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From KYANN on IAH R013 to COLET, then RIGHT turn on LFK R203 to LFK VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From KYANN on IAH R013 to COLET, then RIGHT turn on LFK R203 to LFK VOR.	Assigned by ATC

AREA SID



 4 OCT 19 (90-3OB1) .Eff.10.Oct.

 HOUSTON METROPLEX,
 TEXAS
 .SID.

TAKEOFF OBSTACLE NOTES - DEPs

BAY CITY REGL

- RWY 13:
Trees and poles beginning 51' from DER, 306' left of centerline, up to 91' MSL. Tree 337' from DER, 442' right of centerline, 79' MSL. Tree 478' from DER, 473' right of centerline, 83' MSL. Trees beginning 714' from DER, 496' right of centerline, up to 86' MSL.
- RWY 31:
Tree 102' from DER, 340' right of centerline, 61' MSL. Tree 548' from DER, 272' left of centerline, 59' MSL. Tree 944' from DER, 272' right of centerline, 70' MSL. Trees beginning 1002' from DER, 255' right of centerline, up to 78' MSL. Tree 1139' from DER, 750' right of centerline, 80' MSL.

BAYTOWN

- RWY 14:
Tree 9' from DER, 214' left of centerline, 47' MSL. Trees, poles, traverse way beginning 11' from DER, 33' right of centerline, up to 54' MSL. Tree 89' from DER, 413' left of centerline, 51' MSL. Poles, building, trees, traverse way beginning 122' from DER, 9' left of centerline, up to 58' MSL. Trees, poles beginning 316' from DER, 158' left of centerline, up to 66' MSL. Poles, trees beginning 462' from DER, 237' left of centerline, up to 67' MSL. Tree 977' from DER, 447' left of centerline, 68' MSL. Tree 1223' from DER, 90' left of centerline, 70' MSL. Tree 1356' from DER, 427' left of centerline, 72' MSL. Tree 1467' from DER, 531' right of centerline, 80' MSL. Tree 1886' from DER, 558' left of centerline, 91' MSL. Tower 4066' from DER, 1217' right of centerline, 156' AGL/180' MSL.
- RWY 32:
Trees, building, fence, poles beginning 131' from DER, 6' right of centerline, up to 76' MSL. Buildings beginning 251' from DER, 38' left of centerline, up to 42' MSL. Poles, building, trees, traverse way beginning 289' from DER, 4' left of centerline, up to 38' AGL/71' MSL. Poles, trees beginning 688' from DER, 70' right of centerline, up to 48' AGL/80' MSL.

CHAMBERS CO

- RWY 12:
Vehicles on roadway beginning 19' from DER, left and right of centerline, up to 15' AGL/34' MSL. Trees beginning 986' from DER, 732' left of centerline, up to 100' AGL/119' MSL.
- RWY 30:
Trees beginning 60' from DER, left and right of centerline, up to 100' AGL/124' MSL. Vehicles on roadway 121' from DER, 512' right of centerline, up to 17' AGL/36' MSL. Tower 2152' from DER, 593' right of centerline, 60' AGL/83' MSL.

CLEVELAND MUN

- RWY 16:
Trees beginning abeam DER, right and left of centerline, up to 100' AGL/239' MSL.
- RWY 34:
Trees beginning 120' from DER, 243' left of centerline, up to 100' AGL/259' MSL. Trees and poles beginning 225' from DER, 363' right of centerline, up to 100' AGL/220' MSL. Vehicles on road 738' from DER, right and left of centerline, up to 19' AGL/169' MSL.

AREA SID



 4 OCT 19 (90-3OB2) .Eff.10.Oct.

 HOUSTON METROPLEX,
 TEXAS
 .SID.

TAKEOFF OBSTACLE NOTES - DEPs (CONTD)
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ELLINGTON

- o RWY 4:
Tree 1526' from DER, 737' right of centerline, 39' AGL/69' MSL.
- o RWY 17R:
Pole 1488' from DER, 817' right of centerline, 40' AGL/74' MSL.
- o RWY 22:
Obstruction light on glideslope and equipment 321' from DER, 544' left of centerline, 39' AGL/68' MSL. Sign 213' from DER, 472' right of centerline, 6' AGL/32' MSL.
Antenna on building 1998' from DER, 598' right of centerline, 54' AGL/83' MSL.
Obstruction light on comm equipment and antenna 1626' from DER, 837' right of centerline, 88' AGL/114' MSL. Obstruction light on water tower and tank 6114' from DER, 1635' right of centerline, 159' AGL/192' MSL.
- o RWY 35L:
Trees beginning 1119' from DER, 679' right of centerline, up to 37' AGL/77' MSL.
Crane 2353' from DER, 1024' left of centerline, 58' AGL/97' MSL.
- o RWY 35R:
Tree 1597' from DER, 32' left of centerline, 50' AGL/80' MSL. Tank 2639' from DER, 1157' right of centerline, 77' AGL/109' MSL.

HOOKS MEML

- o RWY 17R:
Multiple trees beginning 708' from DER, 68' left of centerline, up to 71' AGL/220' MSL.
Multiple hangars beginning 433' from DER, 515' left of centerline, up to 37' AGL/182' MSL. DME antenna 653' from DER, 256' left of centerline, 13' AGL/162' MSL. Multiple trees and pole beginning 85' from DER, 294' right of centerline, up to 45' AGL/189' MSL.
- o RWY 35L:
Multiple trees and poles beginning 144' from DER, 32' left of centerline, up to 79' AGL/238' MSL. Multiple hangars and buildings beginning 85' from DER, 9' left of centerline, up to 53' AGL/202' MSL. Multiple trees, towers and poles beginning 100' from DER, 124' right of centerline, up to 93' AGL/247' MSL. Vehicle and road 315' from DER, on centerline, 15' AGL/166' MSL. Building 894' from DER, 231' right of centerline, 23' AGL/173' MSL.

HOUSTON EXECUTIVE

- o RWY 36:
Power poles from left to right beginning 703' from DER, 623' left to 685' right of centerline, up to 32' AGL/196' MSL.

HOUSTON-SOUTHWEST

- o RWY 9:
Multiple hangars beginning 239' from DER, 360' right of centerline, up to 42' AGL/106' MSL. Multiple trees beginning 501' from DER, 355' right of centerline, up to 43' AGL/111' MSL. Multiple hangars beginning 119' from DER, 498' left of centerline, up to 41' AGL/105' MSL. Pole 332' from DER, 299' left of centerline, 43' AGL/97' MSL. Antenna 1172' from DER, 658' left of centerline, 51' AGL/115' MSL. Multiple trees beginning 558' from DER, 68' left of centerline, up to 58' AGL/122' MSL.
- o RWY 27:
Multiple trees beginning 1050' from DER, 40' left of centerline, up to 71' AGL/140' MSL. Vehicle on road 99' from DER, 291' right of centerline, 15' AGL/83' MSL. Multiple trees beginning 873' from DER, 514' right of centerline, up to 59' AGL/130' MSL. Multiple transmission poles beginning 1304' from DER, 131' right of centerline, up to 41' AGL/110' MSL.

AREA SID



 19 APR 19 (90-3OB3) .Eff.25.Apr.

 HOUSTON METROPLEX,
 TEXAS
 .SID.

TAKEOFF OBSTACLE NOTES - DEPs (CONTD 1)
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LA PORTE MUN

- RWY 5:
TREES BEGINNING 334' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 67' AGL/91' MSL. POLES BEGINNING 973' FROM DER, 387' LEFT OF CENTERLINE, UP TO 40' AGL/64' MSL. BUILDINGS BEGINNING 319' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 30' AGL/54' MSL. STACK 2.3 NM FROM DER, 3296' LEFT OF CENTERLINE, 300' AGL/334' MSL.
- RWY 12:
POLES BEGINNING 127' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 54' AGL/74' MSL. TREES BEGINNING 183' FROM DER, 446' RIGHT OF CENTERLINE, UP TO 40' AGL/60' MSL. BUILDING 675' FROM DER, 411' RIGHT OF CENTERLINE, UP TO 32' AGL/55' MSL. TREES BEGINNING 888' FROM DER, 113' RIGHT OF CENTERLINE, UP TO 43' AGL/63' MSL.
- RWY 23:
BUILDINGS BEGINNING 30' FROM DER, 242' LEFT OF CENTERLINE, UP TO 30' AGL/54' MSL. BUILDINGS BEGINNING 231' FROM DER, 134' RIGHT OF CENTERLINE, UP TO 30' AGL/54' MSL. TREES BEGINNING 243' FROM DER, 494' RIGHT OF CENTERLINE, UP TO 67' AGL/91' MSL. POLES BEGINNING 363' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 40' AGL/64' MSL. VEHICLE ON ROAD BEGINNING 493' FROM DER, 562' LEFT OF CENTERLINE, UP TO 15' AGL/39' MSL. TREES BEGINNING 573' FROM DER, 292' LEFT OF CENTERLINE, UP TO 67' AGL/91' MSL. TREES BEGINNING 1123' FROM DER, 69' RIGHT OF CENTERLINE, UP TO 67' AGL/91' MSL.
- RWY 30:
TREES BEGINNING 44' FROM DER, 331' RIGHT OF CENTERLINE, UP TO 51' AGL/71' MSL. POLE 114' FROM DER, 500' LEFT OF CENTERLINE, 37' AGL/60' MSL. BUILDINGS BEGINNING 334' FROM DER, 355' LEFT OF CENTERLINE, UP TO 25' AGL/50' MSL. TREES BEGINNING 367' FROM DER, 471' LEFT OF CENTERLINE, UP TO 37' AGL/57' MSL. BUILDING 669' FROM DER, 415' RIGHT OF CENTERLINE, 30' AGL/55' MSL. POLES BEGINNING 768' FROM DER, 427' RIGHT OF CENTERLINE, UP TO 50' AGL/74' MSL. TREES BEGINNING 1048' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 67' AGL/87' MSL.

LIBERTY MUN

- RWY 16:
HANGARS BEGINNING 4' FROM DER, 340' RIGHT OF CENTERLINE, UP TO 21' AGL/91' MSL. TREE 273' FROM DER, 401' RIGHT OF CENTERLINE, 28' AGL/96' MSL. TREES BEGINNING 1067' FROM DER, 122' LEFT OF CENTERLINE, UP TO 76' AGL/146' MSL. TREES AND POLES BEGINNING 1166' FROM DER, 48' RIGHT OF CENTERLINE, UP TO 85' AGL/155' MSL.
- RWY 34:
TREES BEGINNING 176' FROM DER, 262' LEFT OF CENTERLINE, UP TO 52' AGL/117' MSL. POLES BEGINNING 427' FROM DER, 318' RIGHT OF CENTERLINE, UP TO 40' AGL/105' MSL. POLES BEGINNING 451' FROM DER, 236' LEFT OF CENTERLINE, UP TO 39' AGL/106' MSL. TREES BEGINNING 758' FROM DER, 101' RIGHT OF CENTERLINE, UP TO 101' AGL/166' MSL. TREES BEGINNING 1953' FROM DER, 40' LEFT OF CENTERLINE, UP TO 96' AGL/161' MSL.

AREA SID



 19 APR 19 (90-30B4) .Eff.25.Apr.

 HOUSTON METROPLEX,
 TEXAS
 .SID.

TAKEOFF OBSTACLE NOTES - DEPs (CONTD 2)
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PEARLAND REGL

- RWY 14:
VEHICLES ON ROAD BEGINNING 11' FROM DER, 450' RIGHT OF CENTERLINE, UP TO 15' AGL/54' MSL. HANGARS 99' FROM DER, 521' LEFT OF CENTERLINE, UP TO 13' AGL/53' MSL. TREES BEGINNING 102' FROM DER, 328' LEFT OF CENTERLINE, UP TO 27' AGL/71' MSL. TREES BEGINNING 199' FROM DER, 307' RIGHT OF CENTERLINE, UP TO 64' AGL/98' MSL. VEHICLES ON ROAD BEGINNING 364' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15' AGL/59' MSL. TREES BEGINNING 618' FROM DER, 331' LEFT OF CENTERLINE, UP TO 32' AGL/71' MSL. TREES BEGINNING 983' FROM DER, 94' RIGHT OF CENTERLINE, UP TO 20' AGL/90' MSL. TREES BEGINNING 1251' FROM DER, 72' LEFT OF CENTERLINE, UP TO 60' AGL/94' MSL.

- RWY 32:
MULTIPLE TREES BEGINNING 30' FROM DER, 142' RIGHT OF CENTERLINE, UP TO 59' AGL/100' MSL. MULTIPLE TREES BEGINNING 41' FROM DER, 200' LEFT OF CENTERLINE, UP TO 74' AGL/118' MSL. POLE 68' FROM DER, 107' RIGHT OF CENTERLINE, 26' AGL/70' MSL. MULTIPLE BUILDINGS AND POLES BEGINNING 103' FROM DER, 235' RIGHT OF CENTERLINE, UP TO 34' AGL/78' MSL. VEHICLES ON ROAD 513' FROM DER, LEFT AND RIGHT OF CENTERLINE, 15' AGL/59' MSL. MULTIPLE POLES AND TREES BEGINNING 605' FROM DER, LEFT AND RIGHT OF CENTERLINE UP TO 84' AGL/128' MSL.

- R. W. J.

- RWY 8:
TREES BEGINNING 21' FROM DER, 152' LEFT OF CENTERLINE, UP TO 100' AGL/129' MSL. VEHICLE ON ROAD BEGINNING 100' FROM DER, CROSSING CENTERLINE, UP TO 15' AGL/44' MSL. FENCE BEGINNING ABEAM DER, 115' RIGHT OF CENTERLINE, UP TO 6' AGL/35' MSL. TREES BEGINNING 133' FROM DER, 333' RIGHT OF CENTERLINE, UP TO 100' AGL/129' MSL. BUILDINGS BEGINNING 266' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 30' AGL/59' MSL. POWER LINES BEGINNING 356' FROM DER, 460' LEFT OF CENTERLINE, UP TO 32' AGL/61' MSL. POLE 663' FROM DER, 188' RIGHT OF CENTERLINE, 100' AGL/129' MSL.

- RWY 26:
BUILDINGS BEGINNING 47' FROM DER, 118' RIGHT OF CENTERLINE, UP TO 30' AGL/64' MSL. BUILDINGS BEGINNING 187' FROM DER, 85' LEFT OF CENTERLINE, UP TO 30' AGL/64' MSL. POWER LINES BEGINNING 407' FROM DER, CROSSING CENTERLINE, UP TO 32' AGL/66' MSL. VEHICLE ON ROAD BEGINNING 448' FROM DER, CROSSING CENTERLINE, UP TO 15' AGL/49' MSL. TREES BEGINNING 619' FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100' AGL/134' MSL. QUARRY EQUIPMENT 2800' FROM DER, 193' RIGHT OF CENTERLINE, UP TO 100' AGL/134' MSL.

AREA SID



 19 APR 19 (90-3OB5) .Eff.25.Apr.

 HOUSTON METROPLEX,
 TEXAS
 .SID.

TAKEOFF OBSTACLE NOTES - DEPs (CONTD 3)
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SCHOLES INTL AT GALVESTON

- RWY 14:
BUILDING 2614' FROM DER, 376' RIGHT OF CENTERLINE, 76' AGL/81' MSL.
- RWY 18:
BUILDINGS BEGINNING 2560' FROM DER, 284' LEFT OF CENTERLINE, UP TO 121' AGL/
178' MSL. T-L TOWER 636' FROM DER, 551' RIGHT OF CENTERLINE, 55' AGL/60' MSL.
TREES AND POLES BEGINNING 50' FROM DER, 75' RIGHT OF CENTERLINE, UP TO 60'
AGL/65' MSL.
- RWY 32:
CRANE 4434' FROM DER, 1081' LEFT OF CENTERLINE, 131' AGL/131' MSL.
- RWY 36:
BUSH 419' FROM DER, 577' LEFT OF CENTERLINE, 12' AGL/17' MSL. TREE 526' FROM
DER, 371' LEFT OF CENTERLINE, 14' AGL/19' MSL. TREES BEGINNING 713' FROM DER,
383' RIGHT OF CENTERLINE, UP TO 27' AGL/32' MSL.

SUGAR LAND REGL

- RWY 17:
MULTIPLE POLES BEGINNING 436' FROM DER, 172' RIGHT OF CENTERLINE, UP TO 44'
AGL/124' MSL. RAILROAD 110' FROM DER, 10' LEFT OF CENTERLINE, 23' AGL/104'
MSL. MULTIPLE POLES BEGINNING 135' FROM DER, 270' LEFT OF CENTERLINE, UP TO
44' AGL/111' MSL. BUILDING 1036' FROM DER, 743' RIGHT OF CENTERLINE, 26'
AGL/102' MSL.
- RWY 35:
VEHICLE AND ROAD 65' FROM DER, 2' RIGHT OF CENTERLINE, 15' AGL/96' MSL.
MULTIPLE TREES BEGINNING 37' FROM DER, 275' RIGHT OF CENTERLINE, UP TO 81'
AGL/164' MSL. DME ANTENNA 380' FROM DER, 253' RIGHT OF CENTERLINE, 24'
AGL/100' MSL. MULTIPLE TREES BEGINNING 83' FROM DER, 65' LEFT OF CENTERLINE,
UP TO 81' AGL/155' MSL.

TEXAS GULF COAST REGL

- RWY 35:
TREE 1330' FROM DER, 797' LEFT OF CENTERLINE, 71' MSL. TREE 1404' FROM DER,
796' LEFT OF CENTERLINE, 73' MSL. TREES BEGINNING 1467' FROM DER, 788'
LEFT OF CENTERLINE, UP TO 75' MSL. TREE 1474' FROM DER, 670' RIGHT OF
CENTERLINE, 72' MSL. TREE 1516' FROM DER, 684' RIGHT OF CENTERLINE, 73' MSL.
TREE 1578' FROM DER, 759' RIGHT OF CENTERLINE, 74' MSL.

AREA SID

 JEPPESEN
19 APR 19 (90-30B6) .Eff.25.Apr.

HOUSTON METROPLEX,
TEXAS
.SID.

TAKEOFF OBSTACLE NOTES - DEPs (CONTD 4)

WEST HOUSTON

- RWY 15:
ROAD AND VEHICLE BEGINNING 74' FROM DER, 60' LEFT OF CENTERLINE, UP TO 15' AGL/123' MSL. ROAD AND VEHICLE BEGINNING 342' FROM DER, 6' RIGHT OF CENTERLINE, UP TO 15' AGL/123' MSL. BUILDING 177' FROM DER, 398' LEFT OF CENTERLINE, 18' AGL/126' MSL. LIGHT POLE 942' FROM DER, 453' RIGHT OF CENTERLINE, 39' AGL/145' MSL. TREES BEGINNING 307' FROM DER, 26' LEFT OF CENTERLINE, UP TO 58' AGL/165' MSL. TREES BEGINNING 130' FROM DER, 117' RIGHT OF CENTERLINE, UP TO 100' AGL/208' MSL.
- RWY 33:
TREES BEGINNING 168' FROM DER, 9' LEFT OF CENTERLINE, UP TO 70' AGL/179' MSL. TREES BEGINNING 66' FROM DER, 3' RIGHT OF CENTERLINE, UP TO 75' AGL/184' MSL.

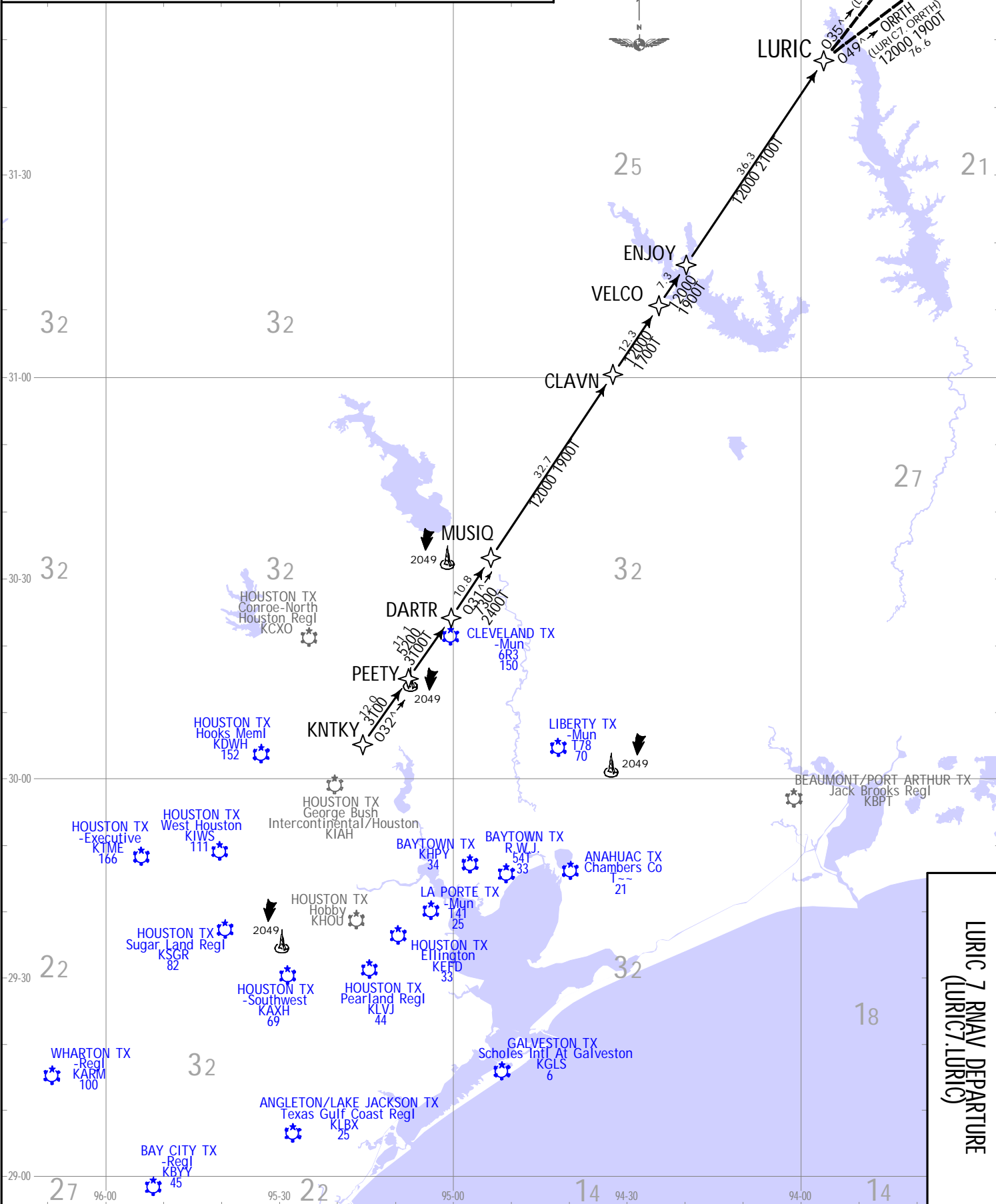
WHARTON RGNL

- RWY 32:
VEHICLE ON ROADS BEGINNING 26' FROM DER, 312' RIGHT OF CENTERLINE, UP TO 17' AGL/113' MSL. BUILDINGS BEGINNING 40' FROM DER, 338' RIGHT OF CENTERLINE, UP TO 26' AGL/125' MSL. POLES BEGINNING 140' FROM DER, 467' RIGHT OF CENTERLINE, UP TO 43' AGL/142' MSL. TREE 828' FROM DER, 509' RIGHT OF CENTERLINE, 28' AGL/127' MSL. FENCE 24' FROM DER, 288' LEFT OF CENTERLINE, 4' AGL/103' MSL. TREE 1147' FROM DER, 425' LEFT OF CENTERLINE, 41' AGL/140' MSL.

CHANGES: Reissue

AREA SID

<p>Apt Elev See Graphic</p>	<p>Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1. 4. Also serves KBYY, KHPY, T-- , 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS, KARM.</p>
<p>LURIC 7 RNAV DEPARTURE (LURIC7.LURIC) For Procedure Text and Takeoff Minimums see 90-3P1 PROCEDURE GRAPHIC</p>	



LURIC 7 RNAV DEPARTURE
(LURIC7.LURIC)

15 NOV 19
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RNAV.SID

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AREA SID

LURIC 7 RNAV DEPARTURE
(LURIC7.LURIC)

For Procedure Graphic see 90-3P
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwy 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: Not authorized - Environmental.
Rwys 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
Waterways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
Rwys 14, 32: Not authorized - Environmental
SCHOLES INTL AT GALVESTON:
Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.

Grnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGL	Rwy 13: Climb heading 131° to 560 for RADAR vectors to KNTKY. Rwy 31: Climb heading 311° to 560 for RADAR vectors to KNTKY.	
BAYTOWN	Rwy 14: Climb heading 140° to 540 for RADAR vectors to KNTKY. Rwy 32: Climb heading 320° to 540 for RADAR vectors to KNTKY.	
CHAMBERS CO	Rwy 12: Climb heading 124° to 540 for RADAR vectors to KNTKY. Rwy 30: Climb heading 304° to 540 for RADAR vectors to KNTKY.	
CLEVELAND MUN	Rwy 16: Climb heading 157° to 1400 for RADAR vectors to KNTKY. Rwy 34: Climb heading 312° to 2000 for RADAR vectors to KNTKY.	
ELLINGTON	Rwy 4: Climb heading 039° to 540 for RADAR vectors to KNTKY. Rwys 17L/R: Climb heading 174° to 540 for RADAR vectors to KNTKY. Rwy 22: Climb heading 219° to 540 for RADAR vectors to KNTKY. Rwys 35L/R: Climb heading 354° to 540 for RADAR vectors to KNTKY.	
HOOKS MEML	Rwy 17R: Climb heading 168° to 660 for RADAR vectors to KNTKY. Rwy 35L: Climb heading 348° to 660 for RADAR vectors to KNTKY.	
HOUSTON EXECUTIVE	Rwy 18: Climb heading 175° to 680 for RADAR vectors to KNTKY. Rwy 36: Climb heading 355° to 680 for RADAR vectors to KNTKY.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 for RADAR vectors to KNTKY. Rwy 27: Climb heading 269° to 2200 for RADAR vectors to KNTKY.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 540 for RADAR vectors to KNTKY. Rwy 12: Climb heading 121° to 540 for RADAR vectors to KNTKY. Rwy 23: Climb heading 226° to 540 for RADAR vectors to KNTKY. Rwy 30: Climb heading 301° to 540 for RADAR vectors to KNTKY.	Assigned by ATC
LIBERTY MUN	Rwy 16: Climb heading 161° to 1700 for RADAR vectors to KNTKY. Rwy 34: Climb heading 341° to 1000 for RADAR vectors to KNTKY.	
PEARLAND REGL	Rwy 14: Climb heading 142° to 1600 for RADAR vectors to KNTKY. Rwy 32: Climb heading 322° to 700 for RADAR vectors to KNTKY.	
R.W.J.	Rwy 8: Climb heading 084° to 540 for RADAR vectors to KNTKY. Rwy 26: Climb heading 264° to 540 for RADAR vectors to KNTKY.	
SCHOLES INTL AT GALVESTON	Rwy 14: Climb heading 138° to 520 for RADAR vectors to KNTKY. Rwy 18: Climb heading 179° to 520 for RADAR vectors to KNTKY. Rwy 32: Climb heading 318° to 520 for RADAR vectors to KNTKY. Rwy 36: Climb heading 359° to 520 for RADAR vectors to KNTKY.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 for RADAR vectors to KNTKY. Rwy 35: Climb heading 350° to 1100 for RADAR vectors to KNTKY.	
TEXAS GULF COAST REGL WEST HOUSTON	Rwy 17: Climb heading 175° to 540 for RADAR vectors to KNTKY. Rwy 35: Climb heading 355° to 540 for RADAR vectors to KNTKY.	
WHARTON REGL	Rwy 15: Climb heading 150° to 620 for RADAR vectors to KNTKY. Rwy 33: Climb heading 330° to 620 for RADAR vectors to KNTKY. Rwy 14: Climb heading 148° to 600 for RADAR vectors to KNTKY. Rwy 32: Climb heading 328° to 600 for RADAR vectors to KNTKY.	

ROUTING

From KNTKY on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIO, then on track 031° to CLAWN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

**MMALT 5 RNAV DEPARTURE
(MMALT5.MMALT)**

For Procedure Graphic, see 90-3Q
PROCEDURE TEXT

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGI	Rwy 13: Climb heading 131° to 560 for RADAR vectors to MMALT. Rwy 31: Climb heading 311° to 560 for RADAR vectors to MMALT.	
BAYTOWN	Rwy 14: Climb on heading 140° to 540 for RADAR vectors to MMALT. Rwy 32: Climb on heading 320° to 540 for RADAR vectors to MMALT.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540 for RADAR vectors to MMALT. Rwy 30: Climb on heading 304° to 540 for RADAR vectors to MMALT.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400 for RADAR vectors to MMALT. Rwy 34: Climb on heading 337° to 2000 for RADAR vectors to MMALT.	
ELLINGTON	Rwy 4: Climb on heading 039° to 540 for RADAR vectors to MMALT. Rwys 17L/R: Climb on heading 174° to 540 for RADAR vectors to MMALT. Rwy 22: Climb on heading 219° to 540 for RADAR vectors to MMALT. Rwys 35L/R: Climb on heading 354° to 540 for RADAR vectors to MMALT.	
HOOKS MEML	Rwy 17R: Climb on heading 168° to 660 for RADAR vectors to MMALT. Rwy 35L: Climb on heading 348° to 660 for RADAR vectors to MMALT.	
HOUSTON EXECUTIVE	Rwy 18: Climb on heading 175° to 680 for RADAR vectors to MMALT. Rwy 36: Climb on heading 355° to 680 for RADAR vectors to MMALT.	
HOUSTON-SOUTHWEST	Rwy 9: Climb on heading 089° to 2000 for RADAR vectors to MMALT. Rwy 27: Climb on heading 269° to 2200 for RADAR vectors to MMALT.	Assigned by ATC
LA PORTE MUN	Rwy 5: Climb on heading 046° to 540 for RADAR vectors to MMALT. Rwy 12: Climb on heading 121° to 540 for RADAR vectors to MMALT. Rwy 23: Climb on heading 226° to 540 for RADAR vectors to MMALT. Rwy 30: Climb on heading 301° to 540 for RADAR vectors to MMALT.	
LIBERTY MUN	Rwy 16: Climb on heading 161° to 1700 for RADAR vectors to MMALT. Rwy 34: Climb on heading 341° to 1000 for RADAR vectors to MMALT.	
PEARLAND REGI	Rwy 14: Climb on heading 142° to 1600 for RADAR vectors to MMALT. Rwy 32: Climb on heading 322° to 900 for RADAR vectors to MMALT.	
R.W.J.	Rwy 8: Climb on heading 084° to 540 for RADAR vectors to MMALT. Rwy 26: Climb on heading 264° to 540 for RADAR vectors to MMALT.	
SCHOLES INTL AT GALVESTON	Rwy 14: Climb on heading 138° to 520 for RADAR vectors to MMALT. Rwy 18: Climb on heading 179° to 520 for RADAR vectors to MMALT. Rwy 32: Climb on heading 318° to 520 for RADAR vectors to MMALT. Rwy 36: Climb on heading 359° to 520 for RADAR vectors to MMALT.	
SUGAR LAND REGI	Rwy 17: Climb on heading 170° to 1500 for RADAR vectors to MMALT. Rwy 35: Climb on heading 350° to 1100 for RADAR vectors to MMALT.	
TEXAS GULF COAST REGI	Rwy 17: Climb on heading 175° to 540 for RADAR vectors to MMALT. Rwy 35: Climb on heading 355° to 540 for RADAR vectors to MMALT.	
WEST HOUSTON	Rwy 15: Climb on heading 150° to 620 for RADAR vectors to MMALT. Rwy 33: Climb on heading 330° to 620 for RADAR vectors to MMALT.	
WHARTON REGI	Rwy 14: Climb heading 148° to 600 for RADAR vectors to MMALT. Rwy 32: Climb heading 328° to 600 for RADAR vectors to MMALT.	

ROUTING

From MMALT on track 086° to MOOKI, then on transition. MAINTAIN ATC assigned altitude. EXPECT FILED altitude 10 minutes after departure.

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGI: Rwys 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: Not Authorized - Environmental. Rwy 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGI: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwy 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
SCHOLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGI: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGI: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGI: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).



20 MAR 20 (90-3ST) Eff. 26 Mar.

AREA SID

PALACIOS 1 DEPARTURE (PSX1.PSX)

For Procedure Graphic see 90-35 PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAYTOWN:
 Rwy 14: 300-1 or standard (or lower than standard, if authorized) with a minimum climb of 420 per NM to 300.
 Rwy 32: Standard (or lower than standard, if authorized).
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized).
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized).
ELLINGTON: Rwys 4, 17L/R, 35L/R: Standard (or lower than standard, if authorized).
 Rwy 22: 200-1 1/4 or standard (or lower than standard, if authorized) with minimum climb of 214 per NM to 300 or alternatively with standard (or lower than standard, if authorized) takeoff minimums and a normal 200 per NM climb gradient, takeoff must occur not later than 1400 prior to DER.
HOOKS MEML: Rwys 17L, 35R: Not authorized - Environmental.
 Rwys 17R, 35L: Standard (or lower than standard, if authorized).
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized).
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized).
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized).
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized).
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized).
 R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized).
 Rwys 14, 32: Standard (or lower than standard, if authorized). Not authorized at night.
SCHOLES INTL AT GALVESTON:
 Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized).
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized).
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized).

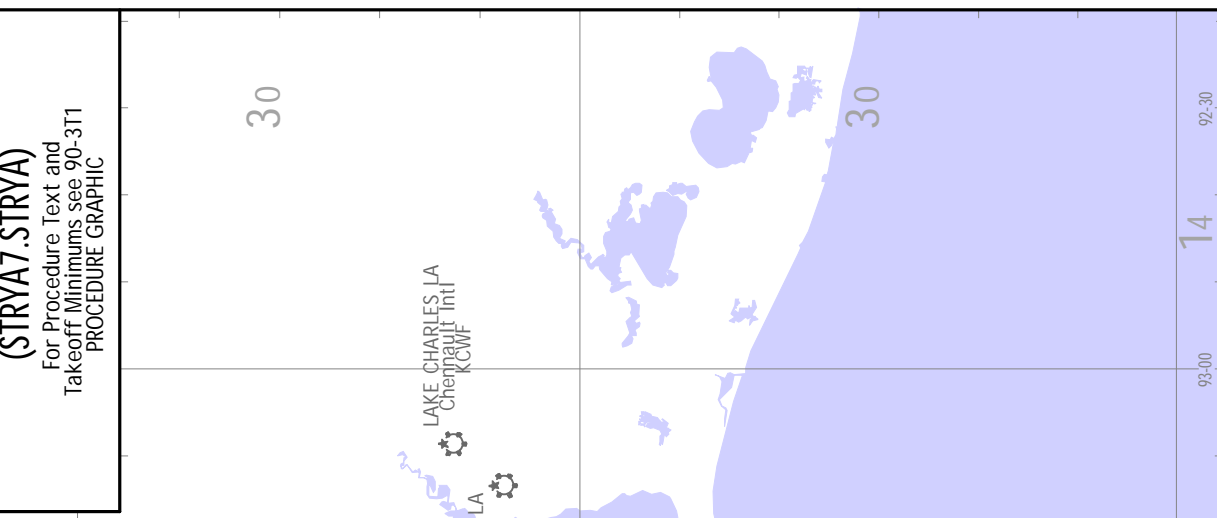
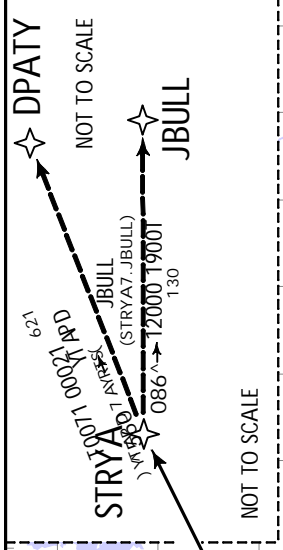
Gnd speed-KT	75	100	150	200	250	300
214 per NM	268	357	535	713	892	1070
420 per NM	525	700	1050	1400	1750	2100

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
CLEVELAND MUN	Rwy 16: Climb heading 157° to 1400 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 34: Climb heading 312° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
ELLINGTON	All Rwys: Climb on assigned heading for RADAR vectors to SKUBA.	
HOUSTON EXECUTIVE	Rwy 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	Assigned by ATC
LIBERTY MUN	Rwy 16: Climb heading 161° to 1700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 34: Climb heading 341° to 1000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
PEARLAND REGL	Rwy 14: Climb heading 142° to 1600 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 32: Climb heading 322° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
SCHOLES INTL AT GALVESTON	Rwys 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
SUGAR LAND REGL	Rwy 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Rwy 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA.	
ROUTING		
MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From SKUBA on PSX R038 to PSX VOR.		
ALL OTHER AIRPORTS		
ALL RWYS	When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure. From SKUBA on PSX R038 to PSX VOR.	Assigned by ATC

Apt Elev
See Graphic

- Trans alt: 18000
1. RADAR required.
 2. RNAV 1
 3. DME/DME/IRU or GPS required.
 4. Also serves KBYY, KHPY, T--, 6R3, KEFD, KDWH, KTIME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS, KARM.

STRYA 7 RNAV DEPARTURE (STRYA7.STRYA)
For Procedure Text and Takeoff Minimums see 90-3T1
PROCEDURE GRAPHIC



AREA SID

AREA SID

STRYA 7 RNAV DEPARTURE
(STRYA7.STRYA)

For Procedure Graphic see 90-3T
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwy 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwy 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwy 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwy 17L, 35R: Not authorized - Environmental.
Rwy 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
Watenways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwy 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwy 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwy 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwy 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
Rwy 14, 32: Not authorized - Environmental.
SCHOLES INTL AT GALVESTON:
Rwy 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwy 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGL	Rwy 13: Climb heading 131° to 560 for RADAR vectors to KNTKY.	
	Rwy 31: Climb heading 311° to 560 for RADAR vectors to KNTKY.	
	Rwy 14: Climb heading 140° to 540 for RADAR vectors to KNTKY.	
BAYTOWN	Rwy 32: Climb heading 320° to 540 for RADAR vectors to KNTKY.	
	Rwy 12: Climb heading 124° to 540 for RADAR vectors to KNTKY.	
CHAMBERS CO	Rwy 30: Climb heading 304° to 540 for RADAR vectors to KNTKY.	
	Rwy 16: Climb heading 157° to 1400 for RADAR vectors to KNTKY.	
CLEVELAND MUN	Rwy 34: Climb heading 312° to 2000 for RADAR vectors to KNTKY.	
	Rwy 4: Climb heading 039° to 540 for RADAR vectors to KNTKY.	
ELLINGTON	Rwy 17L/R: Climb heading 174° to 540 for RADAR vectors to KNTKY.	
	Rwy 22: Climb heading 219° to 540 for RADAR vectors to KNTKY.	
	Rwy 35L/R: Climb heading 354° to 540 for RADAR vectors to KNTKY.	
HOOKS MEML	Rwy 17R: Climb heading 168° to 660 for RADAR vectors to KNTKY.	
HOUSTON EXECUTIVE	Rwy 35L: Climb heading 348° to 660 for RADAR vectors to KNTKY.	
	Rwy 18: Climb heading 175° to 680 for RADAR vectors to KNTKY.	
HOUSTON-SOUTHWEST	Rwy 36: Climb heading 355° to 680 for RADAR vectors to KNTKY.	
	Rwy 9: Climb heading 089° to 2000 for RADAR vectors to KNTKY.	
LA PORTE MUN	Rwy 27: Climb heading 269° to 2200 for RADAR vectors to KNTKY.	
	Rwy 5: Climb heading 046° to 540 for RADAR vectors to KNTKY.	
	Rwy 12: Climb heading 121° to 540 for RADAR vectors to KNTKY.	
LIBERTY MUN	Rwy 23: Climb heading 226° to 540 for RADAR vectors to KNTKY.	
	Rwy 30: Climb heading 301° to 540 for RADAR vectors to KNTKY.	
PEARLAND REGL	Rwy 16: Climb heading 161° to 1700 for RADAR vectors to KNTKY.	
	Rwy 34: Climb heading 341° to 1000 for RADAR vectors to KNTKY.	
	Rwy 14: Climb heading 142° to 1600 for RADAR vectors to KNTKY.	
R.W.J.	Rwy 32: Climb heading 322° to 700 for RADAR vectors to KNTKY.	
	Rwy 8: Climb heading 084° to 540 for RADAR vectors to KNTKY.	
SCHOLES INTL AT GALVESTON	Rwy 26: Climb heading 264° to 540 for RADAR vectors to KNTKY.	
	Rwy 14: Climb heading 138° to 520 for RADAR vectors to KNTKY.	
	Rwy 18: Climb heading 179° to 520 for RADAR vectors to KNTKY.	
SUGAR LAND REGL	Rwy 32: Climb heading 318° to 520 for RADAR vectors to KNTKY.	
	Rwy 36: Climb heading 359° to 520 for RADAR vectors to KNTKY.	
TEXAS GULF COAST REGL	Rwy 17: Climb heading 170° to 1500 for RADAR vectors to KNTKY.	
	Rwy 35: Climb heading 350° to 1100 for RADAR vectors to KNTKY.	
WEST HOUSTON	Rwy 17: Climb heading 175° to 540 for RADAR vectors to KNTKY.	
	Rwy 15: Climb heading 150° to 620 for RADAR vectors to KNTKY.	
WHARTON REGL	Rwy 33: Climb heading 330° to 620 for RADAR vectors to KNTKY.	
	Rwy 14: Climb heading 148° to 600 for RADAR vectors to KNTKY.	
ROUTING		
From KNTKY on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAWN, then on track 060° to STRYA, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.		

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

AREA SID

STYCK 7 RNAV DEPARTURE
(STYCK7.STYCK)

For Procedure Graphic see 90-3U
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwy 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: Not authorized - Environmental.
Rwys 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
Waterways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
Rwys 14, 32: Not authorized - Environmental.
SCHOLES INTL AT GALVESTON:
Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGL	Rwy 13: Climb heading 131° to 560 for RADAR vectors to BBYSE.	
	Rwy 31: Climb heading 311° to 560 for RADAR vectors to BBYSE.	
BAYTOWN	Rwy 14: Climb heading 140° to 540 for RADAR vectors to BBYSE.	
	Rwy 32: Climb heading 320° to 540 for RADAR vectors to BBYSE.	
CHAMBERS CO	Rwy 12: Climb heading 124° to 540 for RADAR vectors to BBYSE.	
	Rwy 30: Climb heading 304° to 540 for RADAR vectors to BBYSE.	
CLEVELAND MUN	Rwy 16: Climb heading 157° to 1400 for RADAR vectors to BBYSE.	
	Rwy 34: Climb heading 312° to 2000 for RADAR vectors to BBYSE.	
ELLINGTON	Rwy 4: Climb heading 039° to 540 for RADAR vectors to BBYSE.	
	Rwys 17L/R: Climb heading 174° to 540 for RADAR vectors to BBYSE.	
	Rwys 22: Climb heading 219° to 540 for RADAR vectors to BBYSE.	
HOOKS MEML	Rwy 17R: Climb heading 168° to 660 for RADAR vectors to BBYSE.	
	Rwy 35L: Climb heading 348° to 660 for RADAR vectors to BBYSE.	
HOUSTON EXECUTIVE	Rwy 18: Climb heading 175° to 680 for RADAR vectors to BBYSE.	
	Rwy 36: Climb heading 355° to 680 for RADAR vectors to BBYSE.	
HOUSTON-SOUTHWEST	Rwy 9: Climb heading 089° to 2000 for RADAR vectors to BBYSE.	
	Rwy 27: Climb heading 269° to 2200 for RADAR vectors to BBYSE.	
LA PORTE MUN	Rwy 5: Climb heading 046° to 540 for RADAR vectors to BBYSE.	
	Rwy 12: Climb heading 121° to 540 for RADAR vectors to BBYSE.	
	Rwy 23: Climb heading 226° to 540 for RADAR vectors to BBYSE.	
LIBERTY MUN	Rwy 30: Climb heading 301° to 540 for RADAR vectors to BBYSE.	
	Rwy 16: Climb heading 161° to 1700 for RADAR vectors to BBYSE.	
PEARLAND REGL	Rwy 34: Climb heading 341° to 1000 for RADAR vectors to BBYSE.	
	Rwy 14: Climb heading 142° to 1600 for RADAR vectors to BBYSE.	
R.W.J.	Rwy 32: Climb heading 322° to 700 for RADAR vectors to BBYSE.	
	Rwy 8: Climb heading 084° to 540 for RADAR vectors to BBYSE.	
SCHOLES INTL AT GALVESTON	Rwy 26: Climb heading 264° to 540 for RADAR vectors to BBYSE.	
	Rwy 14: Climb heading 138° to 520 for RADAR vectors to BBYSE.	
SUGAR LAND REGL	Rwy 18: Climb heading 179° to 520 for RADAR vectors to BBYSE.	
	Rwy 32: Climb heading 318° to 520 for RADAR vectors to BBYSE.	
TEXAS GULF COAST REGL	Rwy 36: Climb heading 359° to 520 for RADAR vectors to BBYSE.	
	Rwy 17: Climb heading 170° to 1500 for RADAR vectors to BBYSE.	
WEST HOUSTON	Rwy 35: Climb heading 350° to 1100 for RADAR vectors to BBYSE.	
	Rwy 17: Climb heading 175° to 540 for RADAR vectors to BBYSE.	
WHARTON REGL	Rwy 35: Climb heading 355° to 540 for RADAR vectors to BBYSE.	
	Rwy 15: Climb heading 150° to 620 for RADAR vectors to BBYSE.	
WHARTON REGL	Rwy 33: Climb heading 330° to 620 for RADAR vectors to BBYSE.	
	Rwy 14: Climb heading 148° to 600 for RADAR vectors to BBYSE.	
WHARTON REGL	Rwy 32: Climb heading 328° to 600 for RADAR vectors to BBYSE.	
	Rwy 14: Climb heading 148° to 600 for RADAR vectors to BBYSE.	

Assigned by ATC

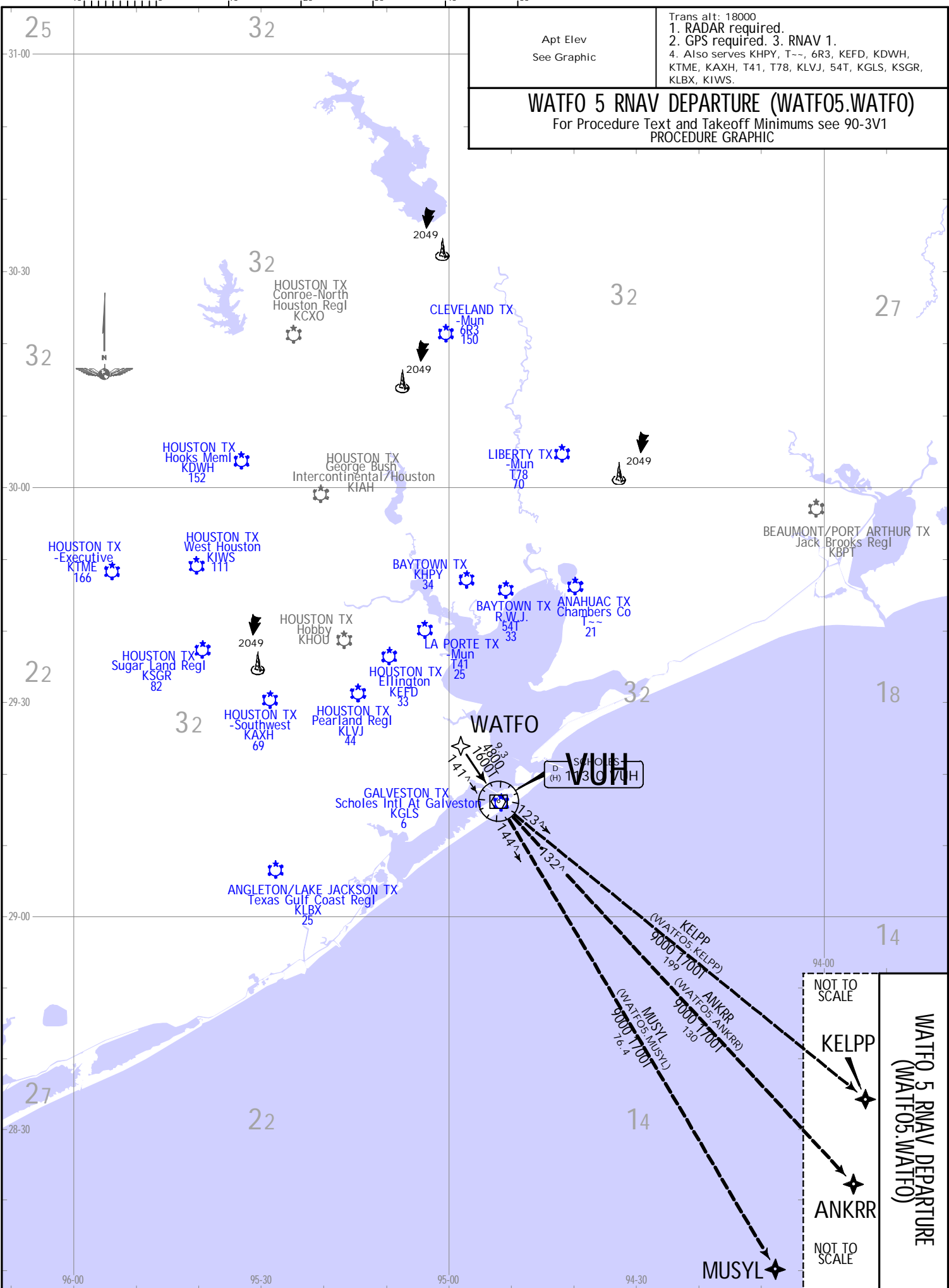
ROUTING

From BBYSE on track 331° to SPIQR, then on track 331° to WLLIS, then on track 332° to STYCK, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

CHANGES: VUH VOR service volume

AREA SID

Apt Elev See Graphic	Trans alt: 18000 1. RADAR required. 2. GPS required. 3. RNAV 1. 4. Also serves KHPY, T--, 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS.
WATFO 5 RNAV DEPARTURE (WATF05.WATFO) For Procedure Text and Takeoff Minimums see 90-3V1 PROCEDURE GRAPHIC	



NOT TO SCALE

KELPP

NOT TO SCALE

ANKRR

NOT TO SCALE

MUSYL

WATFO 5 RNAV DEPARTURE (WATF05.WATFO)

**WATFO 5 RNAV DEPARTURE
(WATF05.WATFO)**

For Procedure Graphic see 90-3V
PROCEDURE TEXT

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAYTOWN: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwy 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
 Rwy 17, 35: Not authorized - Environmental.
CLEVELAND MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwy 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwy 17L, 35R: Not authorized - Environmental.
 Rwy 17R, 35L: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
 Waterways 17, 35: Not authorized - Air Traffic.
HOUSTON EXECUTIVE: Rwy 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwy 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwy 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwy 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwy 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwy 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
 Rwy 14, 32: Not authorized - Environmental.
SCHOLES INTL AT GALVESTON: Rwy 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwy 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwy 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.

Grnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-30B1).

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAYTOWN	Rwy 14: Climb on heading 138° to 540, for RADAR vectors to WATFO.	
	Rwy 32: Climb on heading 318° to 540, for RADAR vectors to WATFO.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540, for RADAR vectors to WATFO.	
	Rwy 30: Climb on heading 304° to 540, for RADAR vectors to WATFO.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400, for RADAR vectors to WATFO.	
	Rwy 34: Climb on heading 337° to 2000, for RADAR vectors to WATFO.	
ELLINGTON	Rwy 4: Climb on heading 039° to 540, for RADAR vectors to WATFO.	
	Rwy 17L/R: Climb on heading 174° to 540, for RADAR vectors to WATFO.	
HOOKS MEML	Rwy 22: Climb on heading 219° to 540, for RADAR vectors to WATFO.	
	Rwy 35L/R: Climb on heading 354° to 540, for RADAR vectors to WATFO.	
HOUSTON EXECUTIVE	Rwy 17R: Climb on heading 168° to 660, for RADAR vectors to WATFO.	
	Rwy 35L: Climb on heading 348° to 660, for RADAR vectors to WATFO.	
HOUSTON-SOUTHWEST	Rwy 18: Climb on heading 174° to 680, for RADAR vectors to WATFO.	
	Rwy 36: Climb on heading 354° to 680, for RADAR vectors to WATFO.	
LA PORTE MUN	Rwy 9: Climb on heading 089° to 2000, for RADAR vectors to WATFO.	
	Rwy 27: Climb on heading 269° to 2200, for RADAR vectors to WATFO.	
LIBERTY MUN	Rwy 5: Climb on heading 046° to 540, for RADAR vectors to WATFO.	
	Rwy 12: Climb on heading 121° to 540, for RADAR vectors to WATFO.	
PEARLAND REGL	Rwy 23: Climb on heading 226° to 540, for RADAR vectors to WATFO.	
	Rwy 30: Climb on heading 301° to 540, for RADAR vectors to WATFO.	
R.W.J.	Rwy 16: Climb on heading 161° to 1700, for RADAR vectors to WATFO.	
	Rwy 34: Climb on heading 341° to 1000, for RADAR vectors to WATFO.	
SCHOLES INTL AT GALVESTON	Rwy 14: Climb on heading 140° to 1600, for RADAR vectors to WATFO.	
	Rwy 32: Climb on heading 320° to 900, for RADAR vectors to WATFO.	
SUGAR LAND REGL	Rwy 8: Climb on heading 084° to 540, for RADAR vectors to WATFO.	
	Rwy 26: Climb on heading 264° to 540, for RADAR vectors to WATFO.	
TEXAS GULF COAST REGL	Rwy 14: Climb on heading 138° to 520, for RADAR vectors to WATFO.	
	Rwy 18: Climb on heading 179° to 520, for RADAR vectors to WATFO.	
WEST HOUSTON	Rwy 32: Climb on heading 318° to 520, for RADAR vectors to WATFO.	
	Rwy 36: Climb on heading 359° to 520, for RADAR vectors to WATFO.	

Assigned by
ATC

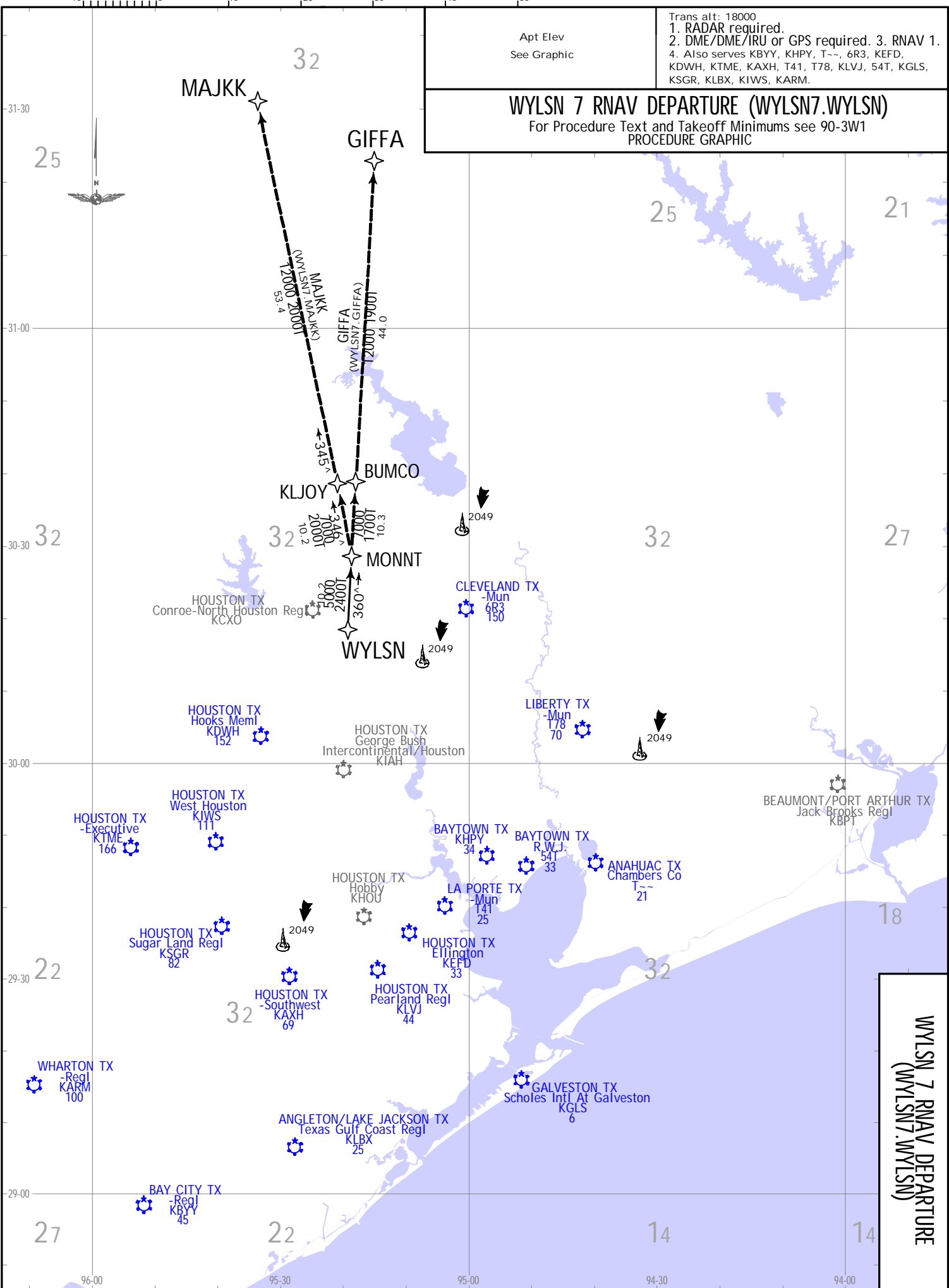
ROUTING

From WATFO on track 141° to VUH VOR, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

CHANGES: Release

AREA SID

Apt Elev See Graphic	Trans alt: 18000 1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1. 4. Also serves KBYY, KHPY, T--, 6R3, KEFD, KDWH, KTME, KAXH, T41, T78, KLVJ, 54T, KGLS, KSGR, KLBX, KIWS, KARM.
WYLSN 7 RNAV DEPARTURE (WYLSN7.WYLSN) For Procedure Text and Takeoff Minimums see 90-3W1 PROCEDURE GRAPHIC	



WYLSN 7 RNAV DEPARTURE
(WYLSN7.WYLSN)

29 NOV 19 (90-3W)
JEPPESEN
HOUSTON METROPLEX TEXAS
 .RNAV.SID

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AREA SID

WYLSN 7 RNAV DEPARTURE
(WYLSN7.WYLSN)

For Procedure Graphic see 90-3W
PROCEDURE TEXT

TAKEOFF OBSTACLE NOTES
See TAKEOFF OBSTACLE NOTES page (90-3OB1).

This SID requires takeoff minimums (for standard minimums, refer to airport chart):
BAY CITY REGL: Rwys 13, 31: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
BAYTOWN: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CHAMBERS CO: Rwys 12, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
CLEVELAND MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 660.
ELLINGTON: Rwys 4, 17L/R, 22, 35L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
HOOKS MEML: Rwys 17L, 35R: Not authorized - Environmental.
HOUSTON EXECUTIVE: Rwys 18, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 680.
HOUSTON-SOUTHWEST: Rwys 9, 27: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
LA PORTE MUN: Rwys 5, 12, 23, 30: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
LIBERTY MUN: Rwys 16, 34: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 580.
PEARLAND REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 560.
R.W.J.: Rwys 8, 26: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
SCHOLLES INTL AT GALVESTON: Rwys 14, 18, 32, 36: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 520.
SUGAR LAND REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 600.
TEXAS GULF COAST REGL: Rwys 17, 35: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 540.
WEST HOUSTON: Rwys 15, 33: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 620.
WHARTON REGL: Rwys 14, 32: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 600.

AIRPORT	INITIAL CLIMB	TOP ALTITUDE
BAY CITY REGL	Rwy 13: Climb heading 131° to 560 for RADAR vectors to WYLSN.	
	Rwy 31: Climb heading 311° to 560 for RADAR vectors to WYLSN.	
BAYTOWN	Rwy 14: Climb on heading 140° to 540 for RADAR vectors to WYLSN.	
	Rwy 32: Climb on heading 320° to 540 for RADAR vectors to WYLSN.	
CHAMBERS CO	Rwy 12: Climb on heading 124° to 540 for RADAR vectors to WYLSN.	
	Rwy 30: Climb on heading 304° to 540 for RADAR vectors to WYLSN.	
CLEVELAND MUN	Rwy 16: Climb on heading 157° to 1400 for RADAR vectors to WYLSN.	
	Rwy 34: Climb on heading 312° to 2000 for RADAR vectors to WYLSN.	
ELLINGTON	Rwy 4: Climb on heading 039° to 540 for RADAR vectors to WYLSN.	
	Rwys 17L/R: Climb on heading 174° to 540 for RADAR vectors to WYLSN.	
HOOKS MEML	Rwy 22: Climb on heading 219° to 540 for RADAR vectors to WYLSN.	
	Rwys 35L/R: Climb on heading 354° to 540 for RADAR vectors to WYLSN.	
HOUSTON EXECUTIVE	Rwy 17R: Climb on heading 168° to 660 for RADAR vectors to WYLSN.	
	Rwy 35L: Climb on heading 348° to 660 for RADAR vectors to WYLSN.	
HOUSTON-SOUTHWEST	Rwy 18: Climb on heading 175° to 680 for RADAR vectors to WYLSN.	
	Rwy 36: Climb on heading 355° to 680 for RADAR vectors to WYLSN.	
LA PORTE MUN	Rwy 9: Climb on heading 089° to 2000 for RADAR vectors to WYLSN.	
	Rwy 27: Climb on heading 269° to 2200 for RADAR vectors to WYLSN.	
LIBERTY MUN	Rwy 5: Climb on heading 046° to 540 for RADAR vectors to WYLSN.	
	Rwy 12: Climb on heading 121° to 540 for RADAR vectors to WYLSN.	
PEARLAND REGL	Rwy 23: Climb on heading 226° to 540 for RADAR vectors to WYLSN.	
	Rwy 30: Climb on heading 301° to 540 for RADAR vectors to WYLSN.	
R.W.J.	Rwy 16: Climb on heading 161° to 1700 for RADAR vectors to WYLSN.	
	Rwy 34: Climb on heading 341° to 1000 for RADAR vectors to WYLSN.	
SCHOLLES INTL AT GALVESTON	Rwy 14: Climb on heading 142° to 1600 for RADAR vectors to WYLSN.	
	Rwy 32: Climb on heading 322° to 700 for RADAR vectors to WYLSN.	
SUGAR LAND REGL	Rwy 8: Climb on heading 084° to 540 for RADAR vectors to WYLSN.	
	Rwy 26: Climb on heading 264° to 540 for RADAR vectors to WYLSN.	
TEXAS GULF COAST REGL	Rwy 14: Climb on heading 138° to 520 for RADAR vectors to WYLSN.	
	Rwy 18: Climb on heading 179° to 520 for RADAR vectors to WYLSN.	
WEST HOUSTON	Rwy 32: Climb on heading 318° to 520 for RADAR vectors to WYLSN.	
	Rwy 36: Climb on heading 359° to 520 for RADAR vectors to WYLSN.	
WHARTON REGL	Rwy 17: Climb on heading 170° to 1500 for RADAR vectors to WYLSN.	
	Rwy 35: Climb on heading 350° to 1100 for RADAR vectors to WYLSN.	

Assigned by ATC

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

ROUTING

From WYLSN on track 360° to MONNT, then on transition. MAINTAIN ATC assigned altitude. EXPECT filed altitude 10 minutes after departure.

Chart changes since cycle 22-2020

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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HOUSTON, TX (GEORGE BUSH INTERCONTINENTAL/H - KIAH)

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport KIAH

Type: Terminal

Effectivity: Temporary

Begin Date: 20191010

End Date: Until Further Notice

(71-2) ILS or LOC RWY 8R, (71-2A) ILS RWY 8R SA CAT I, and (71-2B) ILS RWY 8R SA CAT II - Amend number 26A.

Chart Change Notices for Country USA

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

ILS Procedures RVR 1800 Statute Mile Equivalent-U.S. FAA Airports On a number of ILS approach procedures at U.S. FAA airports, the published landing visibility value of RVR 1800 depicts a Statute Mile equivalent value of 3/8 Statute Mile. According to FAA FAR and AIM publications, the Statute Mile equivalent for RVR 1800 should be 1/2 Statute Mile Beginning with the revision dated 20 May 2016 affected U.S. ILS approach charts will be updated to depict the appropriate Statute Mile equivalent visibility of 1/2 Statute Mile.

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

MALSRL & SSALRL RAIL out Lighting Condition - U.S. FAA Locations The FAA has confirmed that for MALSRL and SSALRL approach light systems, the RAIL out, or partial system condition, is not applicable when determining landing visibilities When any component of a MALSRL or SSALRL approach light system is inoperative, such as RAIL out, the landing visibilities should be determined as if the entire lighting system were inoperative (ALS out). Therefore, the RAIL out visibility column should be disregarded.

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Due to a change of the FAA's statute mile equivalent value for RVR, approach charts with a visibility of RVR 55 or 1 1/4 should be RVR 55 or 1.