

Page 1

Changed chart(s) since Disc 22-2010

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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Astana, (Astana - UACC)

REV	BOLSU, DIDAL, EDANO, OLGAS...	10-3	12 ïŸ 2010	18 ïŸ 2010
ADD	BANOS, KOKON & OSROL 2E, ...	10-3A	12 ïŸ 2010	18 ïŸ 2010
REV	AIRPORT, AIRPORT INFO, TAK...	10-9	12 ïŸ 2010	18 ïŸ 2010
REV	PARKING STANDS, LOW VIS	10-9A	12 ïŸ 2010	18 ïŸ 2010

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport UACC

UACC (Astana)**General Info**

Astana, KAZ

N 51° 01.3' E 71° 28.0' Mag Var: 9.4°E

Elevation: 1165'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: Jet A-1

Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+6:00 no DST

Runway Info

Runway 04-22 11486' x 148' asphalt

Runway 04 (36.0°M) TDZE 1165'

Lights: Edge, ALS, Centerline, TDZ

Runway 22 (216.0°M) TDZE 1158'

Lights: Edge, ALS, Centerline, TDZ

Communications InfoATIS **128.3** Non-EnglishATIS **127.7**Astana Tower **118.7**Astana Tower Ground Control **119.6**Astana Approach Control **124.6** Non-EnglishAstana Radar **120.7****Notebook Info**

UACC/TSE
ASTANA

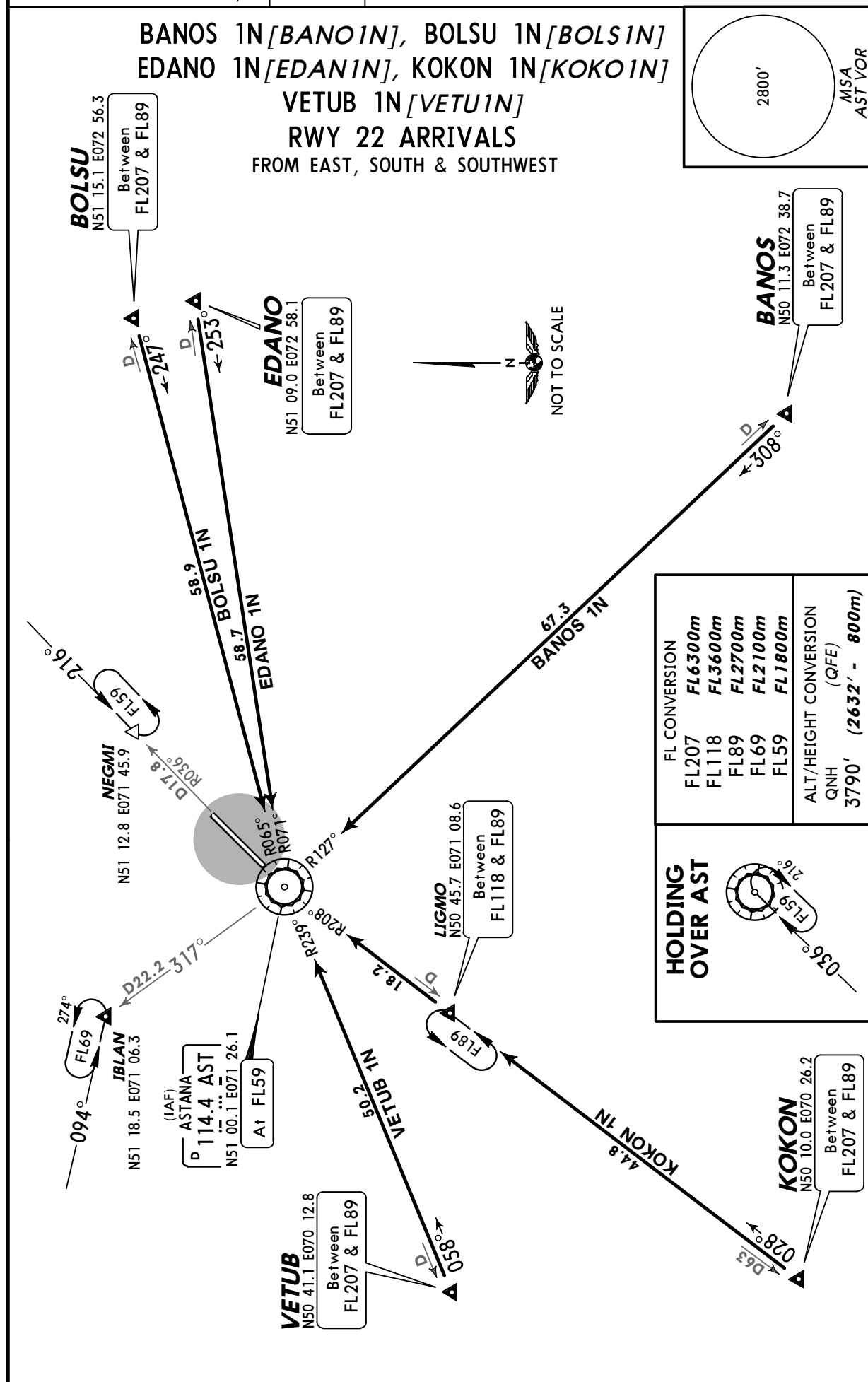
JEPPESSEN **ASTANA, KAZAKHSTAN**
 6 NOV 09 **10-2** **Eff 19 Nov**

STAR

ATIS
 127.7 (Russian 128.3)

Apt Elev
 1165'

Alt Set: MM (hPa on request) QNH on request (QFE)
 Trans level: FL59 Trans alt: 3790' (2632')



UACC/TSE
ASTANA

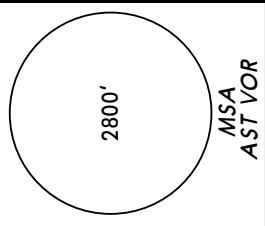
JEPPesen **ASTANA, KAZAKHSTAN**
 6 NOV 09 **10-2A** **Eff 19 Nov**

STAR

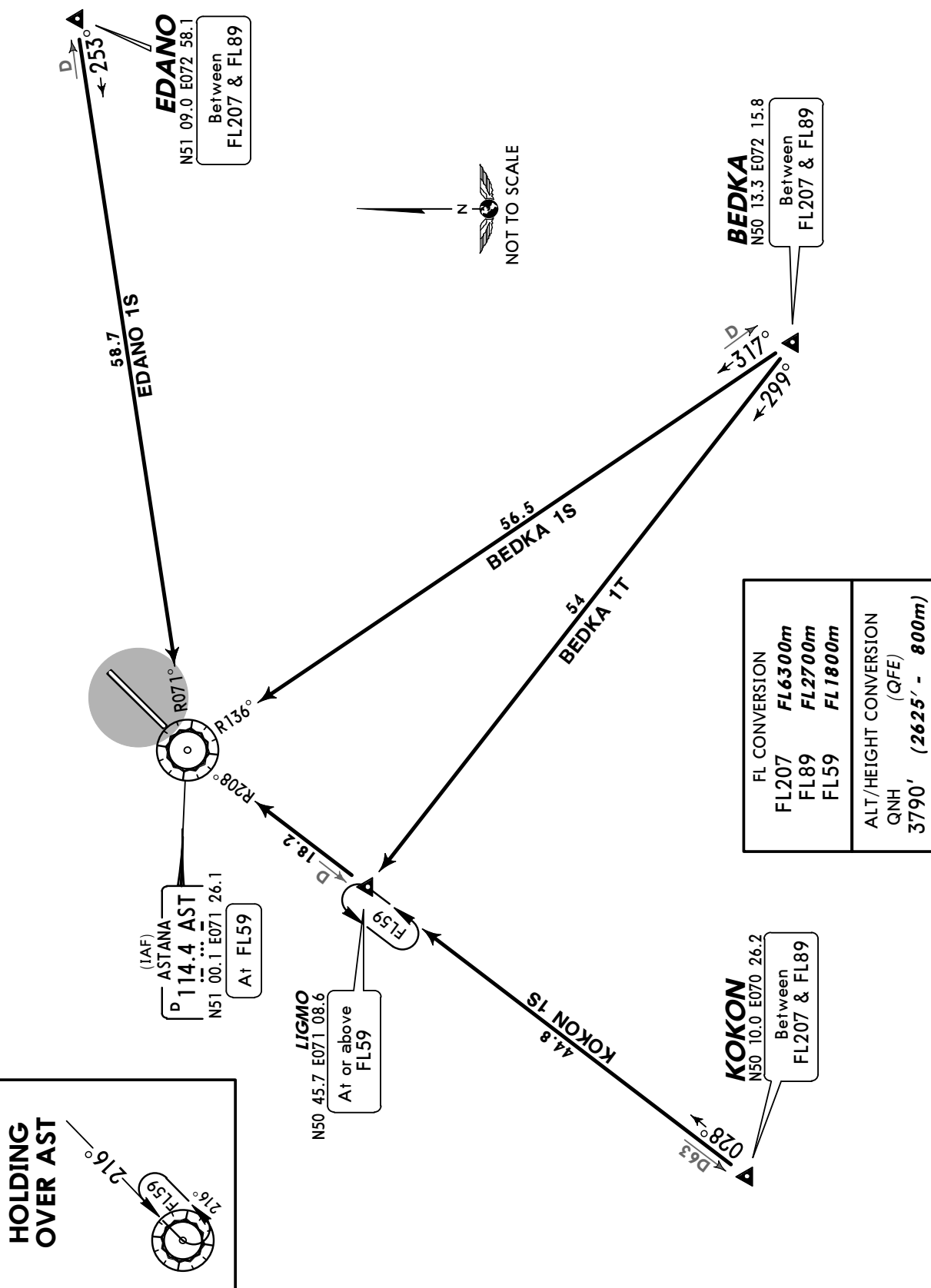
ATIS
 127.7 (Russian 128.3)

Apt Elev
 1165'

Alt Set: MM (hPa on request) QNH on request (QFE)
 Trans level: FL59 Trans alt: 3790' (2625')



BEDKA 1S [BEDK1S], BEDKA 1T [BEDKIT]
EDANO 1S [EDAN1S], KOKON 1S [KOKO1S]
RWY 04 ARRIVALS
FROM EAST & SOUTH



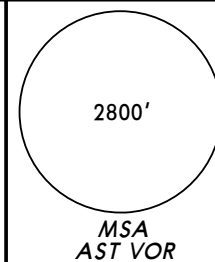
UACC/TSE
ASTANA

JEPPESSEN **ASTANA, KAZAKHSTAN**
 6 NOV 09 **10-2B** **Eff 19 Nov**

STAR

ATIS 127.7 (Russian 128.3) Apt Elev 1165' Alt Set: MM (hPa on request) QNH on request (QFE)
 Trans level: FL59 Trans alt: 3790' (2632')

**DIDAL 1N [DIDA 1N], OLGAS 1N [OLGA 1N]
 VAGEM 1N [VAGE 1N]
 RWY 22 ARRIVALS
 FROM NORTHWEST & NORTH**



VAGEM
 N52 02.0 E071 01.2
 (AST R-337/D63.9)

Between
 FL207 & FL89

OLGAS
 N52 05.2 E071 45.1
 (AST R-001/D66.3)

Between
 FL207 & FL89



FL CONVERSION	
FL207	FL6300m
FL89	FL2700m
FL69	FL2100m
FL59	FL1800m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3790'	(2632' - 800m)

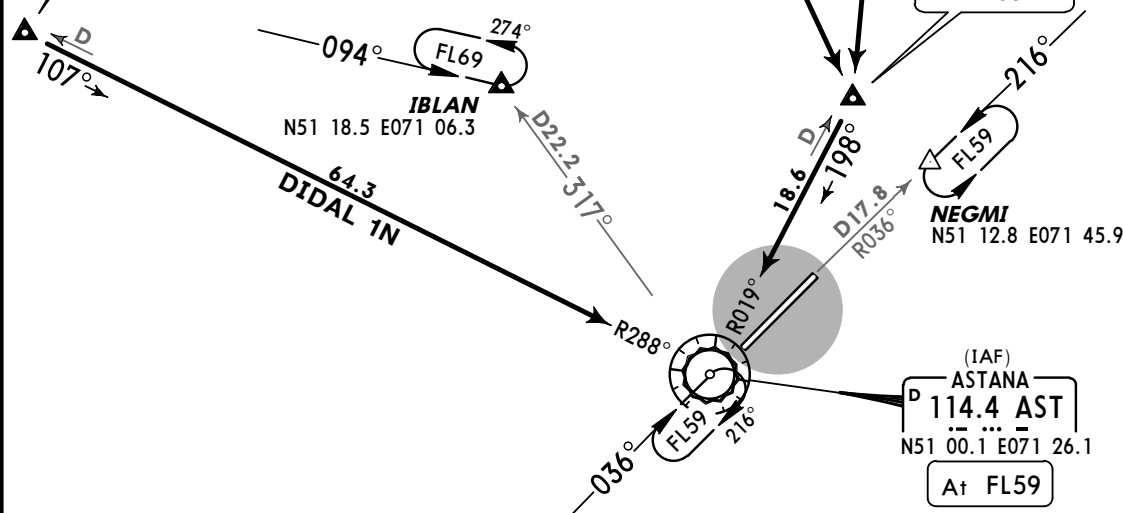
DIDAL
 N51 29.1 E069 54.9

Between
 FL207 & FL89

ASDET
 N51 16.5 E071 39.8
 At or above
 FL69

NEGMI
 N51 12.8 E071 45.9

(IAF)
ASTANA
 D 114.4 AST
 N51 00.1 E071 26.1
 At FL59



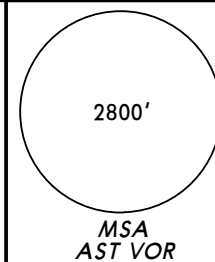
UACC/TSE
ASTANA

JEPPESSEN **ASTANA, KAZAKHSTAN**
 6 NOV 09 **10-2C** **Eff 19 Nov**

STAR

ATIS **127.7** (Russian 128.3) **Apt Elev 1165'** Alt Set: MM (hPa on request) QNH on request (QFE)
 Trans level: FL59 Trans alt: 3790' (2625')

KODOL 1S [KODO1S], KODOL 1T [KODO1T]
KOLUR 1S [KOLU1S], VAGEM 1S [VAGE1S]
VETUB 1S [VETU1S]
RWY 04 ARRIVALS
FROM WEST & NORTH



KOLUR
 N51 59.0 E070 41.1
 (AST R-325/D65.4)

Between
 FL207 & FL89

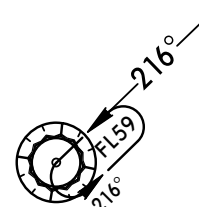
VAGEM
 N52 02.0 E071 01.2
 (AST R-337/D63.9)

Between
 FL207 & FL89

IBLAN
 N51 18.5 E071 06.3

Between
 FL118 & FL108
 or
 at FL69

**HOLDING
 OVER AST**



KODOL
 N51 16.6 E069 56.9

Between
 FL207 & FL89

(IAF)
ASTANA
 D 114.4 AST
 N51 00.1 E071 26.1
 At FL59

APTUS
 N50 56.0 E070 46.0

At or above
 FL69

VETUB
 N50 41.1 E070 12.8

Between
 FL207 & FL89

FL CONVERSION	
FL207	FL6300m
FL118	FL3600m
FL108	FL3300m
FL89	FL2700m
FL69	FL2100m
FL59	FL1800m

ALT/HEIGHT CONVERSION
 QNH (QFE)
 3790' (2625' - 800m)



UACC/TSE
ASTANA

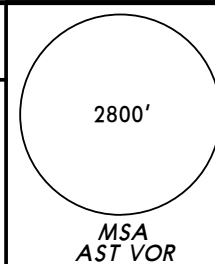
JEPPESSEN
12 NOV 10 **10-3** **Eff 18 Nov**

ASTANA, KAZAKHSTAN

SID

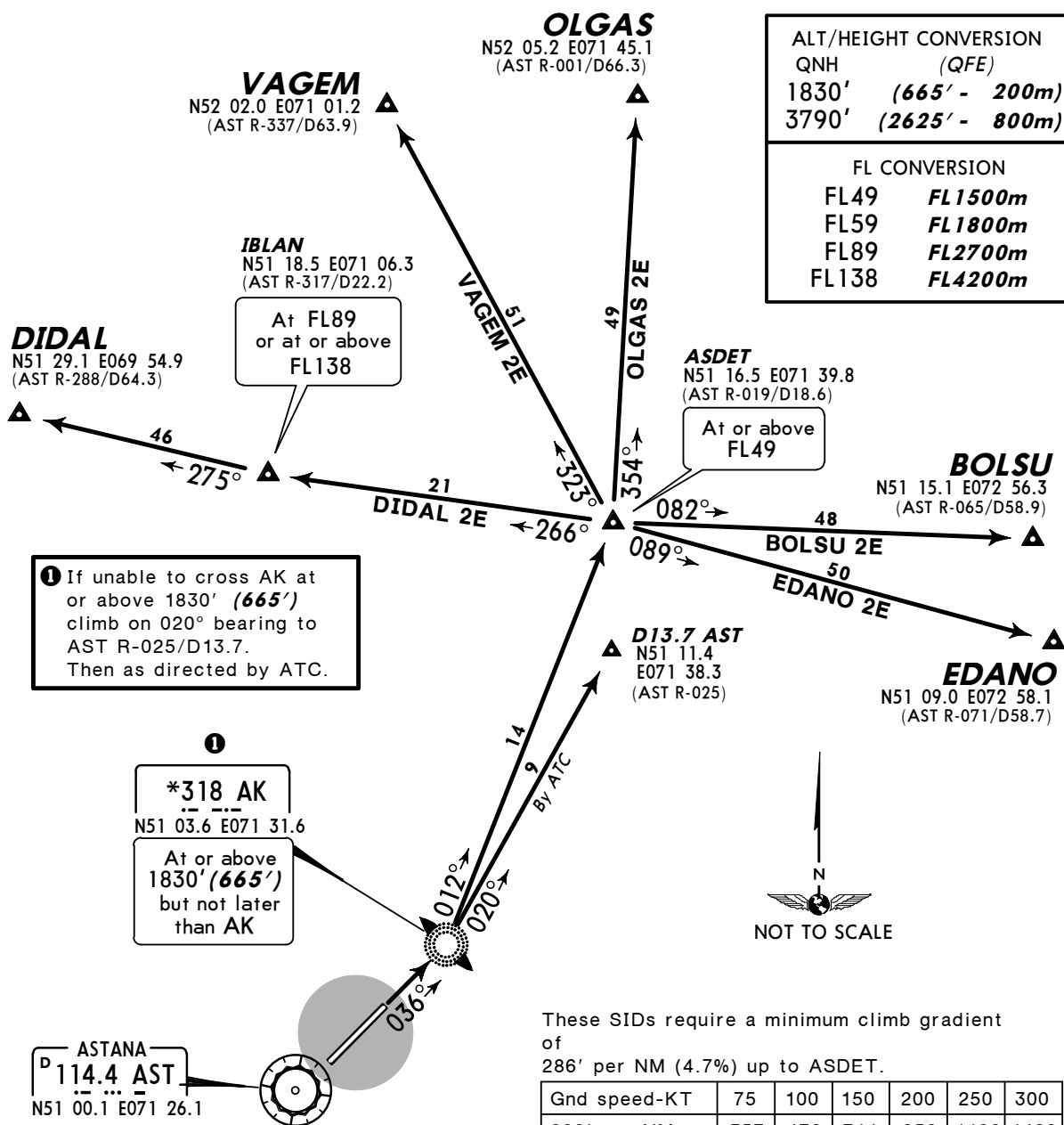
Apt Elev
1165'

QNH on request **(QFE)**
Trans level: FL59 Trans alt: 3790' **(2625')**



**BOLSU 2E [BOLS2E], DIDAL 2E [DIDA2E]
EDANO 2E [EDAN2E], OLGAS 2E [OLGA2E]
VAGEM 2E [VAGE2E]
RWY 04 DEPARTURES
TO NORTH**

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1830'	(665' - 200m)
3790'	(2625' - 800m)
FL CONVERSION	
FL49	FL1500m
FL59	FL1800m
FL89	FL2700m
FL138	FL4200m



MAX 225 KT during departure turn.

SID	ROUTING
BOLSU 2E	Climb straight ahead, at or above 1830' (665'), but not later than AK turn LEFT, 012° track to ASDET, turn RIGHT, 082° track to BOLSU.
DIDAL 2E	Climb straight ahead, at or above 1830' (665'), but not later than AK turn LEFT, 012° track to ASDET, turn LEFT, 266° track to IBLAN, then to DIDAL.
EDANO 2E	Climb straight ahead, at or above 1830' (665'), but not later than AK turn LEFT, 012° track to ASDET, turn RIGHT, 089° track to EDANO.
OLGAS 2E	Climb straight ahead, at or above 1830' (665'), but not later than AK turn LEFT, 012° track to ASDET, turn LEFT, 354° track to OLGAS.
VAGEM 2E	Climb straight ahead, at or above 1830' (665'), but not later than AK turn LEFT, 012° track to ASDET, turn LEFT, 323° track to VAGEM.

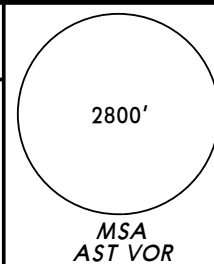
UACC/TSE
ASTANA

JEPPesen
12 NOV 10 **(10-3A)** **Eff 18 Nov**

ASTANA, KAZAKHSTAN

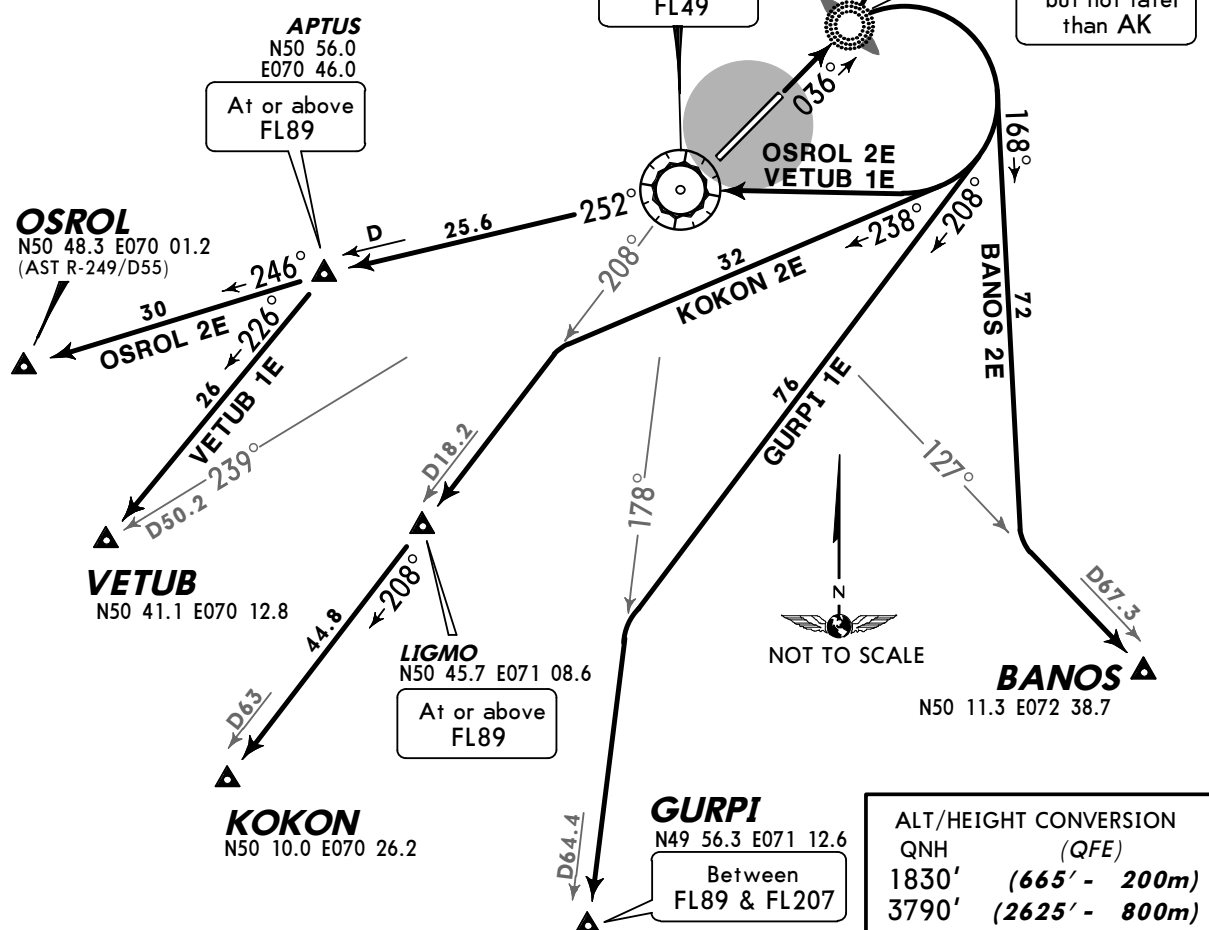
SID

Apt Elev
1165'
QNH on request **(QFE)**
Trans level: FL59 Trans alt: 3790' **(2625')**



**BANOS 2E [BANO2E], GURPI 1E [GURP1E]
KOKON 2E [KOKO2E], OSROL 2E [OSRO2E]
VETUB 1E [VETU1E]
RWY 04 DEPARTURES
TO SOUTH**

1 If unable to cross AK at
or above 1830' **(665')**
climb on 020° bearing to
AST R-025/D13.7.
Then as directed by ATC.



These SIDs require a minimum climb gradient
of
286' per NM (4.7%) up to AK.

Gnd speed-KT	75	100	150	200	250	300
286' per NM	357	476	714	952	1190	1428

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1830'	(665' - 200m)
3790'	(2625' - 800m)

FL CONVERSION	
FL49	FL1500m
FL59	FL1800m
FL89	FL2700m
FL207	FL6300m

MAX 225 KT during departure turn.

SID	ROUTING
BANOS 2E	Climb straight ahead, at or above 1830' (665') , but not later than AK turn RIGHT, 168° track, intercept AST R-127 to BANOS.
GURPI 1E	Climb straight ahead, at or above 1830' (665') , but not later than AK turn RIGHT, 208° track, intercept AST R-178 to GURPI.
KOKON 2E	Climb straight ahead, at or above 1830' (665') , but not later than AK turn RIGHT, 238° track, intercept AST R-208 to LIGMO, 208° track to KOKON.
OSROL 2E	Climb straight ahead, at or above 1830' (665') , but not later than AK turn RIGHT to AST, AST R-252 to APTUS, turn LEFT, 246° track to OSROL.
VETUB 1E	Climb straight ahead, at or above 1830' (665') , but not later than AK turn RIGHT to AST, AST R-252 to APTUS, turn LEFT, 226° track to VETUB.

CHANGES: SID GURPI 1E established.

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UACC/TSE
ASTANA

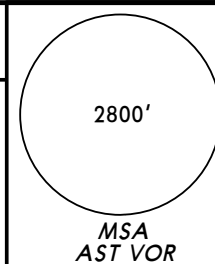
JEPPESSEN
16 JUL 10 **10-3B** **Eff 29 Jul**

ASTANA, KAZAKHSTAN

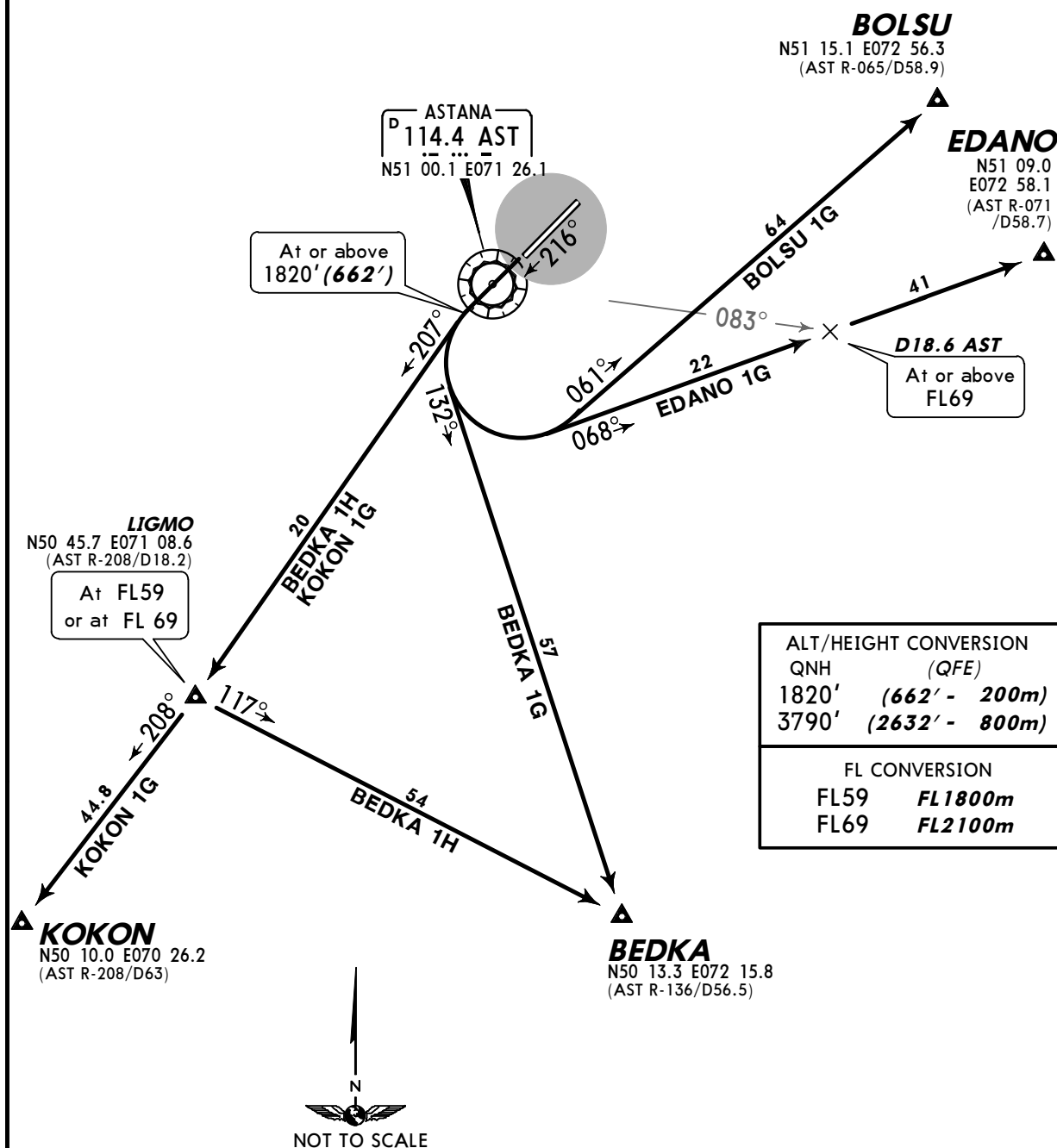
SID

Apt Elev
1165'

QNH on request (QFE)
Trans level: FL59 Trans alt: 3790' **(2632')**



BEDKA 1G [BEDK1G], BEDKA 1H [BEDK1H]
BOLSU 1G [BOLS1G], EDANO 1G [EDAN1G]
KOKON 1G [KOKO1G]
RWY 22 DEPARTURES
TO EAST & SOUTH



MAX 225 KT during departure turn.

SID	ROUTING
BEDKA 1G	Climb to at or above 1820' (662') , turn LEFT, 132° track to BEDKA.
BEDKA 1H	Climb to at or above 1820' (662') , turn LEFT, 207° track to LIGMO, turn LEFT, 117° track to BEDKA.
BOLSU 1G	Climb to at or above 1820' (662') , turn LEFT, 061° track to BOLSU.
EDANO 1G	Climb to at or above 1820' (662') , turn LEFT, 068° track to EDANO.
KOKON 1G	Climb to at or above 1820' (662') , turn LEFT, 207° track to LIGMO, turn RIGHT, 208° track to KOKON.

CHANGES: Crossing at LIGMO.

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UACC/TSE
ASTANA

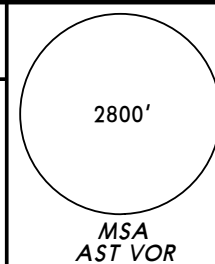
JEPPESSEN
16 JUL 10 **(10-3C)** **Eff 29 Jul**

ASTANA, KAZAKHSTAN

SID

Apt Elev
1165'

QNH on request (QFE)
Trans level: FL59 Trans alt: 3790' **(2632')**



KODOL 1G [KODO1G], KODOL 1H [KODO1H]
KOLUR 1G [KOLU1G], OLGAS 1G [OLGA1G]
OSROL 1G [OSRO1G], VAGEM 1G [VAGE1G]
VETUB 1G [VETU1G]
RWY 22 DEPARTURES
TO WEST & NORTH

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1820'	(662' - 200m)
3790'	(2632' - 800m)

FL CONVERSION	
FL59	FL1800m
FL89	FL2700m
FL98	FL3000m

KODOL
N51 16.6 E069 56.9
(AST R-278/D58.6)

OSROL
N50 48.3 E070 01.2
(AST R-249/D55)

VETUB
N50 41.1 E070 12.8

KOLUR
N51 59.0 E070 41.1
(AST R-325/D65.4)

VAGEM
N52 02.0 E071 01.2
(AST R-337/D63.9)

OLGAS
N52 05.2 E071 45.1
(AST R-001/D66.3)

IBLAN
N51 18.5 E071 06.3
(AST R-317/D22.2)

ASTANA
D 114.4 AST
N51 00.1 E071 26.1

APTUS
N50 56.0 E070 46.0
(AST R-252/D25.6)

MAX 225 KT during departure turn.

SID	ROUTING
KODOL 1G	Climb to at or above 1820' (662') , turn RIGHT, 281° track to KODOL.
KODOL 1H	Climb to at or above 1820' (662') , turn RIGHT, 257° track to APTUS, turn RIGHT, 295° track to KODOL.
KOLUR 1G	Climb to at or above 1820' (662') , turn RIGHT, 331° track to IBLAN, turn LEFT, 330° track to KOLUR.
OLGAS 1G	Climb to at or above 1820' (662') , turn RIGHT, 331° track to IBLAN, turn RIGHT, 018° track to OLGAS.
OSROL 1G	Climb to at or above 1820' (662') , turn RIGHT, 257° track to APTUS, turn LEFT, 246° track to OSROL.
VAGEM 1G	Climb to at or above 1820' (662') , turn RIGHT, 331° track to IBLAN, turn RIGHT, 347° track to VAGEM.
VETUB 1G	Climb to at or above 1820' (662') , turn RIGHT, 257° track to APTUS, turn LEFT, 226° track to VETUB.

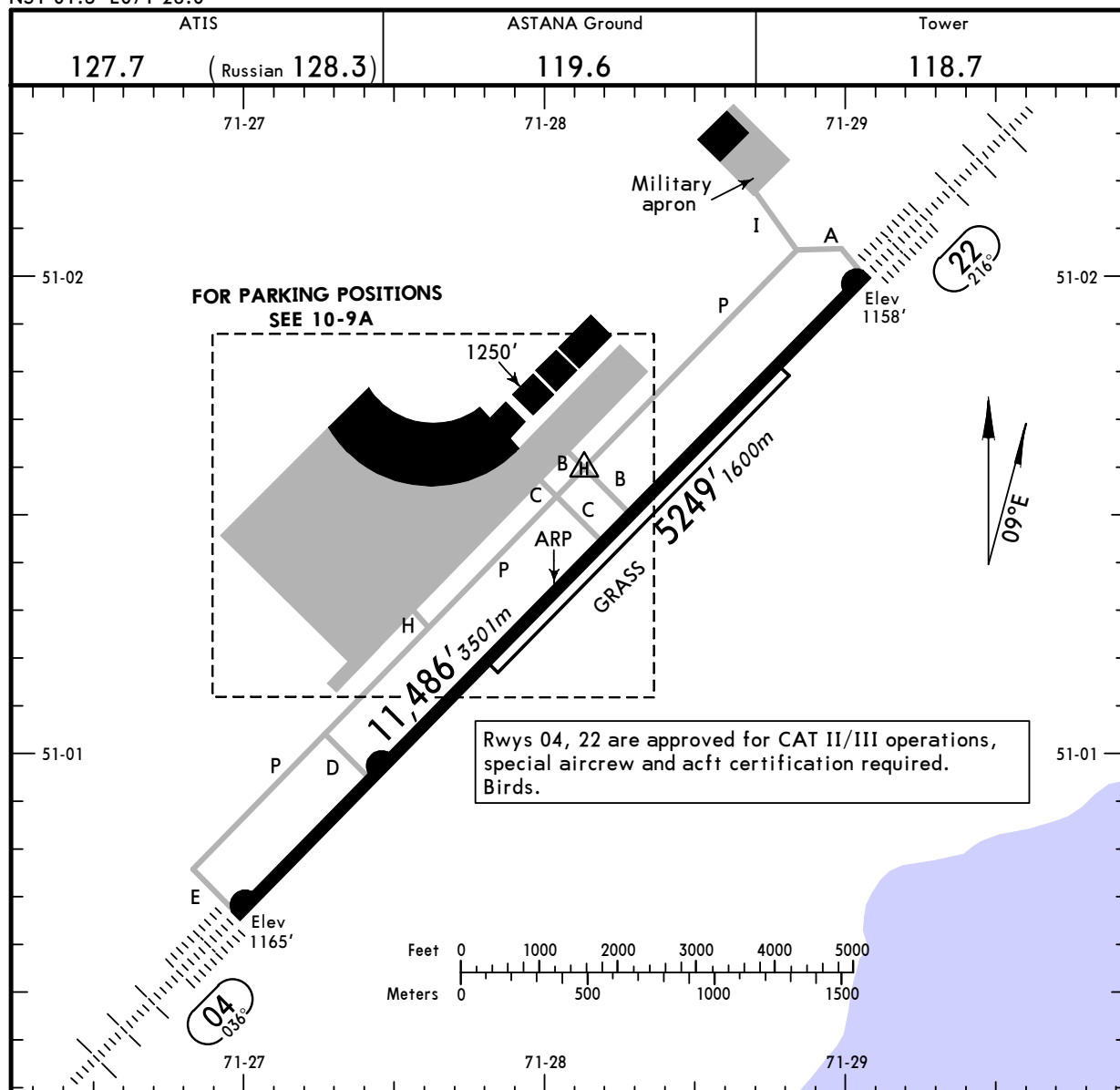
CHANGES: None.

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UACC/TSE
Apt Elev **1165'**
N51 01.3 E071 28.0

JEPPESEN
12 NOV 10 **(10-9)** Eff 18 Nov

ASTANA, KAZAKHSTAN
ASTANA



ADDITIONAL RUNWAY INFORMATION

RWY			USABLE LENGTHS		TAKE-OFF	WIDTH
			Threshold	Landing Beyond		
04	22	HIRL ① CL ② HIALS-II TDZ PAPI-L(3.0°) RVR		10,392' 3167m		148' 45m
04	22	Grass runway				164' 50m

① (60m) ② (15m)

TAKE-OFF

AIR CARRIER (JAA) Main rwy 04/22				
DAY		NIGHT		
LVP must be in force ① RL & CL	RL	RCLM	LVP must be in force ① RL & CL	RL
A				
B	200m	400m ②	200m	400m ②
C				
D	250m (200m)	500m	250m (200m)	400m

① For conditions with braking coefficient not less than 0.5 and cross wind component not more than half maximum allowed for acft type.

② LVP must be in force: 300m.

UACC/TSE

JEPPESEN

ASTANA, KAZAKHSTAN

12 NOV 10

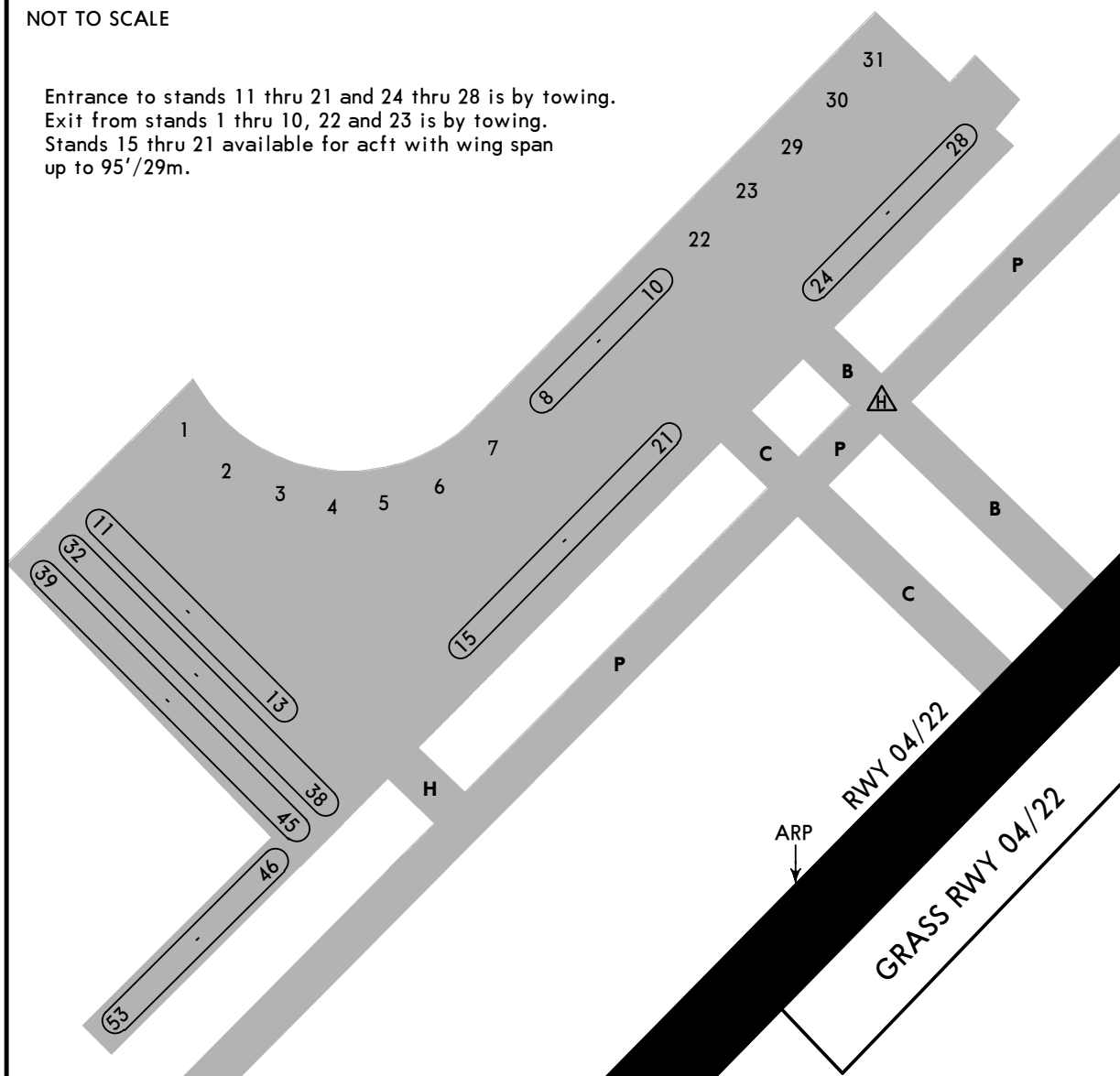
(10-9A)

Eff 18 Nov

ASTANA

NOT TO SCALE

Entrance to stands 11 thru 21 and 24 thru 28 is by towing.
Exit from stands 1 thru 10, 22 and 23 is by towing.
Stands 15 thru 21 available for acft with wing span up to 95'/29m.

**LOW VISIBILITY PROCEDURES (LVP)**

The LVPs are established:

- during CAT II/III approaches when TDZ RVR is less than 550m and/or ceiling is below 200'/60m
- during take-off when RVR is less than 400m.

The status of LVP is passed to pilots by means of ATIS broadcast or RTF:

"Low Visibility Procedures in operation".

Pilots who intend to execute CAT II/III approach shall use the following phraseology on initial contact with ASTANA Approach:

"Request CAT II/III approach"

Arriving acft

Acft is requested to report rwy vacated after crossing light indicator **ILS**,

indicating the ILS localizer sensitive area. Taxiing to the apron after runway was vacated is permitted with Follow-me car only. Parking to the stands is assisted by a marshaller.

Departing acft

Acft is escorted from the stands to the holding position by Follow-me car.

Acft shall stop at the holding position before the light indicator **ILS** indicating the ILS localizer sensitive area.

UACC/TSE

 **JEPPESSEN**
30 JUL 10 **10-9S****Standard**
ASTANA, KAZAKHSTAN
ASTANA

STRAIGHT-IN RWY		A	B	C	D
04	CAT 3A ILS	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS	1265' (100')	1265' (100')	1265' (100')	1265' (100')
		RA102' R350m	RA102' R350m	RA102' R350m	RA102' R350m
	ILS	1365' (200')	1365' (200')	1365' (200')	1365' (200')
	FULL	550m	550m	550m	550m
	Limited	750m	750m	750m	750m
	ALS out	1200m	1200m	1200m	1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	1830' (665')	1830' (665')	2150' (985')	2150' (985')
		3000m	3000m	5000m	5000m
	2 NDB ❶❷	1520' (355')	1520' (355')	1520' (355')	1520' (355')
		1400m	1500m	1500m	1500m
	ALS out	1500m	1500m	1600m	1600m
	2 NDB ❶❸	1520' (355')	1520' (355')	1520' (355')	1520' (355')
		1400m	1500m	1500m	1500m
	ALS out	1600m	1600m	1600m	1600m
22	CAT 3A ILS	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS	1258' (100')	1258' (100')	1258' (100')	1258' (100')
		RA105' R350m	RA105' R350m	RA105' R350m	RA105' R350m
	ILS	1358' (200')	1358' (200')	1358' (200')	1358' (200')
	FULL	550m	550m	550m	550m
	Limited	750m	750m	750m	750m
	ALS out	1200m	1200m	1200m	1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	1820' (662')	1820' (662')	2150' (992')	2150' (992')
		3000m	3000m	5000m	5000m
	2 NDB ❶❷	1510' (352')	1510' (352')	1510' (352')	1510' (352')
		1500m	1500m	1500m	1500m
	ALS out	1500m	1500m	1600m	1600m
	2 NDB ❶❸	1510' (352')	1510' (352')	1510' (352')	1510' (325')
		1500m	1500m	1500m	1500m
	ALS out	1600m	1600m	1600m	1600m

❶ Continuous Descent Final Approach. ❷ with FMS. ❸ w/o FMS.

TAKE-OFF RWY 04, 22

LVP must be in Force ❹					NIGHT		
DAY					LVP must be in Force ❹		
RL, CL & mult. RVR req	RL & CL	RL	RCLM	NIL	RL, CL & mult. RVR req	RL & CL	RL
A	200m	200m	400m ❺	500m	200m	200m	400m ❺
B							400m
C							
D		250m	500m			250m	

❹ For conditions with braking coefficient not less than 0.5 and cross wind component not more than half maximum allowed for acft type. ❺ LVP must be in force: 300m.

UACC/TSE

 **JEPPESEN**

26 MAR 10

10-9X**Eff 8 Apr****ASTANA, KAZAKHSTAN****ASTANA****JAA MINIMUMS**

STRAIGHT-IN RWY		A	B	C	D
04	CAT 3A ILS	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS	1265' (100')	1265' (100')	1265' (100')	1265' (100')
		RA102' R350m	RA102' R350m	RA102' R350m	RA102' R350m
	ILS	1365' (200')	1365' (200')	1365' (200')	1365' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR	1830' (665')	1830' (665')	2150' (985')	2150' (985')
		3000m	3000m	5000m	5000m
	2 NDB	1470' (305')	1500' (335')	1500' (335')	1500' (335')
22	CAT 3A ILS	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS	1258' (100')	1258' (100')	1258' (100')	1258' (100')
		RA105' R350m	RA105' R350m	RA105' R350m	RA105' R350m
	ILS	1358' (200')	1358' (200')	1358' (200')	1358' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR	1820' (662')	1820' (662')	2150' (992')	2150' (992')
		3000m	3000m	5000m	5000m
	2 NDB	1490' (332')	1490' (332')	1490' (332')	1490' (332')
		1500m	1500m	1500m	1500m
	ALS out	1500m	1500m	1800m	2000m

TAKE-OFF RWY 04, 22

DAY					NIGHT		
LVP must be in Force ①					LVP must be in Force ①		
RL, CL & mult. RVR req	RL & CL	RL	RCLM	NIL	RL, CL & mult. RVR req	RL & CL	RL
A			400m ②				400m ②
B	200m	200m		500m	200m	200m	
C		400m ②	500m				400m
D		250m				250m	

① For conditions with braking coefficient not less than 0.5 and cross wind component not more than half maximum allowed for acft type.

② LVP must be in force: 300m.

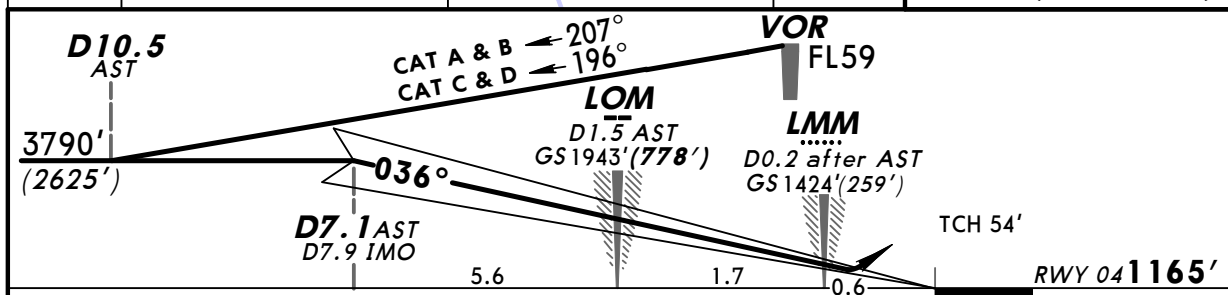
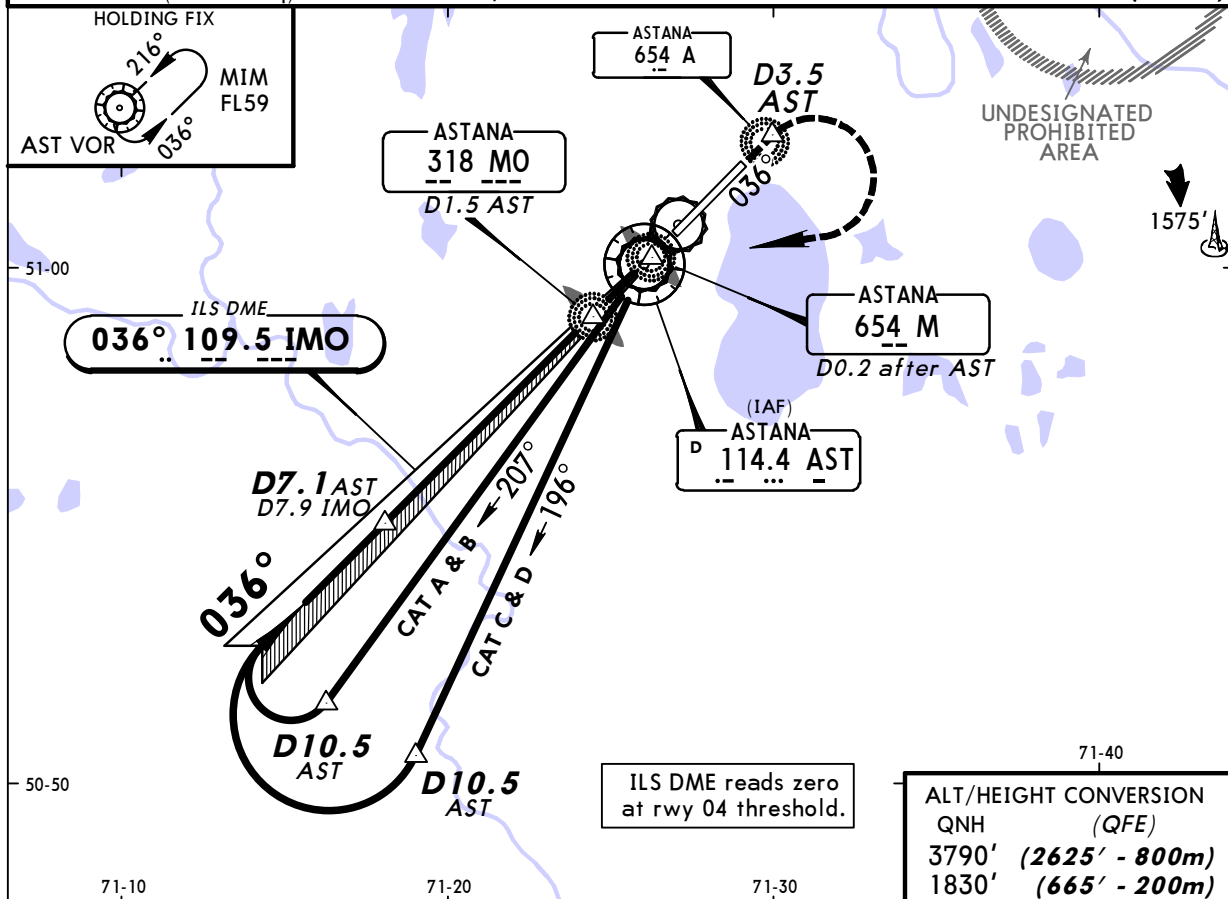
UACC/TSE ASTANA

JEPPesen
6 NOV 09 **(11-1)** Eff 19 Nov

ASTANA, KAZAKHSTAN ILS DME Z Rwy 04

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IMO 109.5	Final Apch Crs 036°	GS LOM 1943'(778')	ILS DA(H) 1365'(200')	Apt Elev 1165' RWY 1165'		2800' MSA AST VOR	
MISSED APCH: Climb on 036° to 1830'(665') or above outbound to D3.5 AST, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790'(2625'), then as directed.							
MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold.							
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 59		Trans alt: 3790' (2625')	



Gnd speed-Kts	70	90	100	120	140	160		D3.5 AST
GS	3.00°	377	484	538	646	753		

STRAIGHT-IN LANDING RWY 04				LOC (GS out)	
ILS					
DA(H) 1365' (200')					
FULL		TDZ or CL out	ALS out		
A					
B					
C	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	
D					

PANS OPS

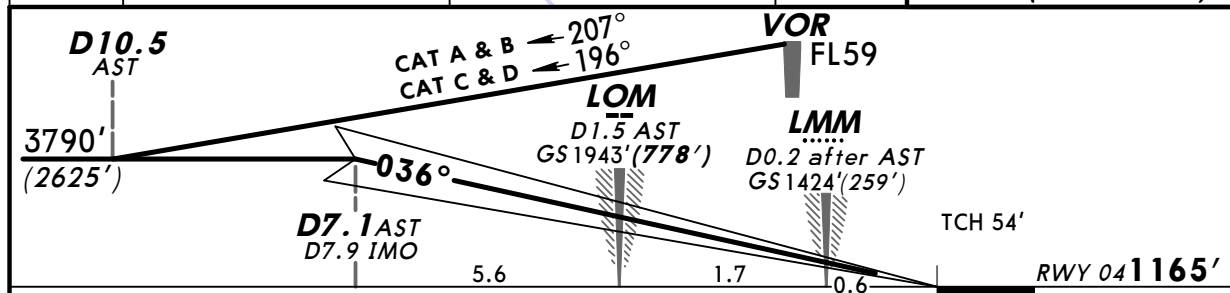
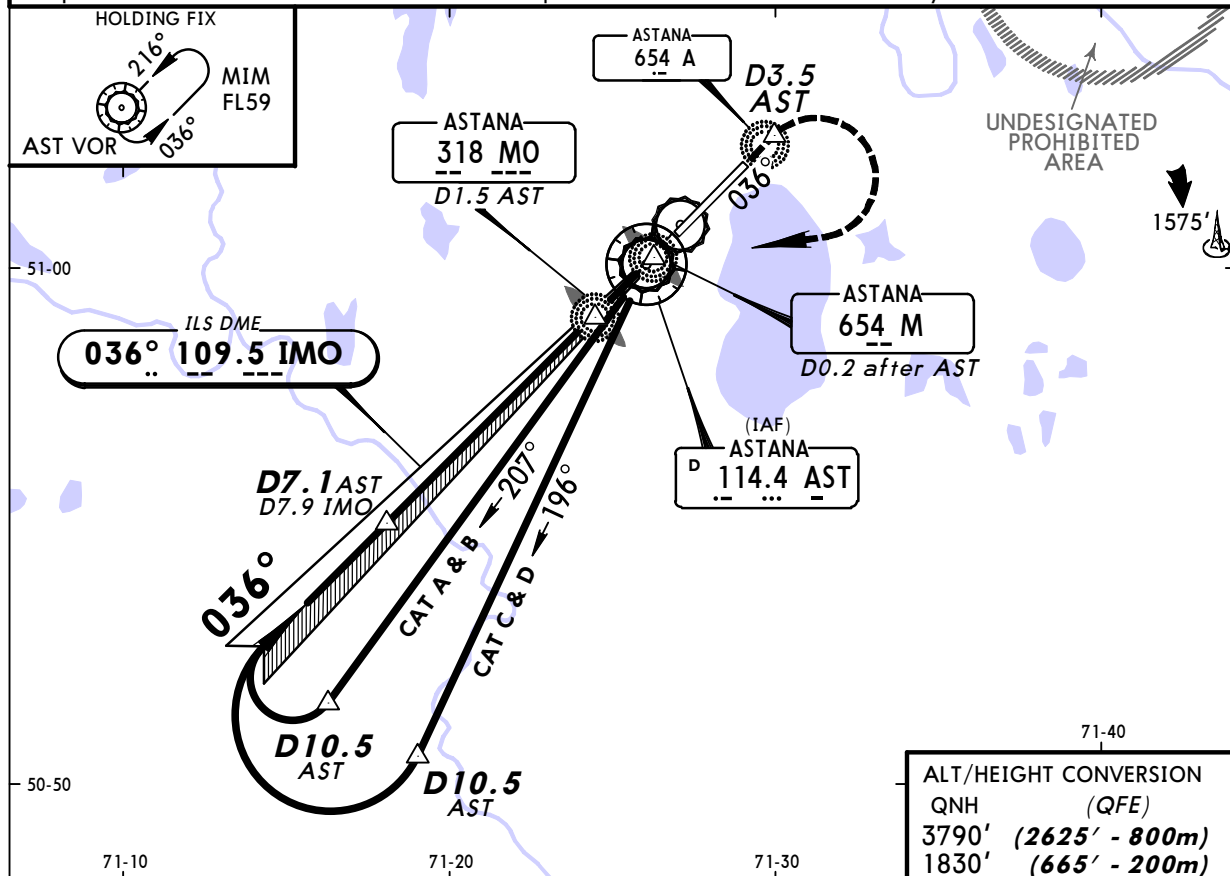
UACC/TSE
ASTANA

JEPPesen
6 NOV 09
Eff 19 Nov **(11-1A)**

ASTANA, KAZAKHSTAN
CAT II ILS DME Z Rwy 04

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IMO 109.5	Final Apch Crs 036°	GS LOM 1943' (778')	CAT II ILS RA 102' DA(H) 1265' (100')	Apt Elev 1165' RWY 1165'	2800' MSA AST VOR		
MISSED APCH: Climb on 036° to 1830' (665') or above outbound to D3.5 AST, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790' (2625'), then as directed.							
MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2625')							
1. Special Aircrew & Aircraft Certification Required. 2. ILS DME reads zero at rwy 04 threshold.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II		1830' (665') or above on	036°	D3.5 AST
GS	3.00°	377	484	538	646	753	PAPI				

STRAIGHT-IN LANDING RWY 04
CAT II ILS
ABCD
RA 102'
DA(H) **1265' (100')**

RVR 350m

PANS OPS

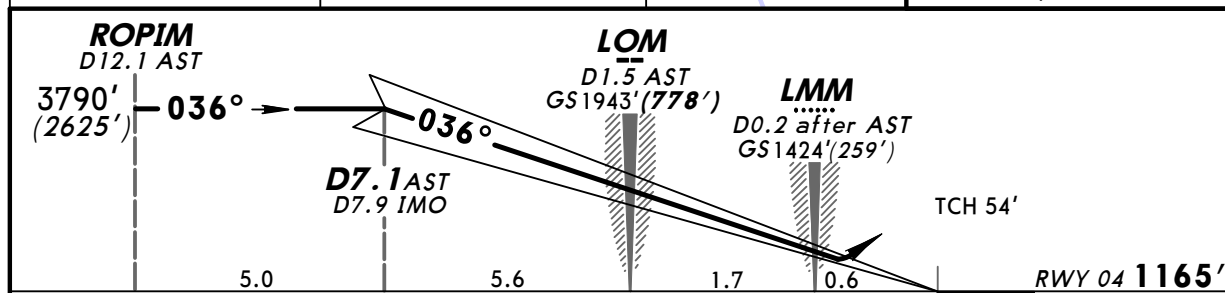
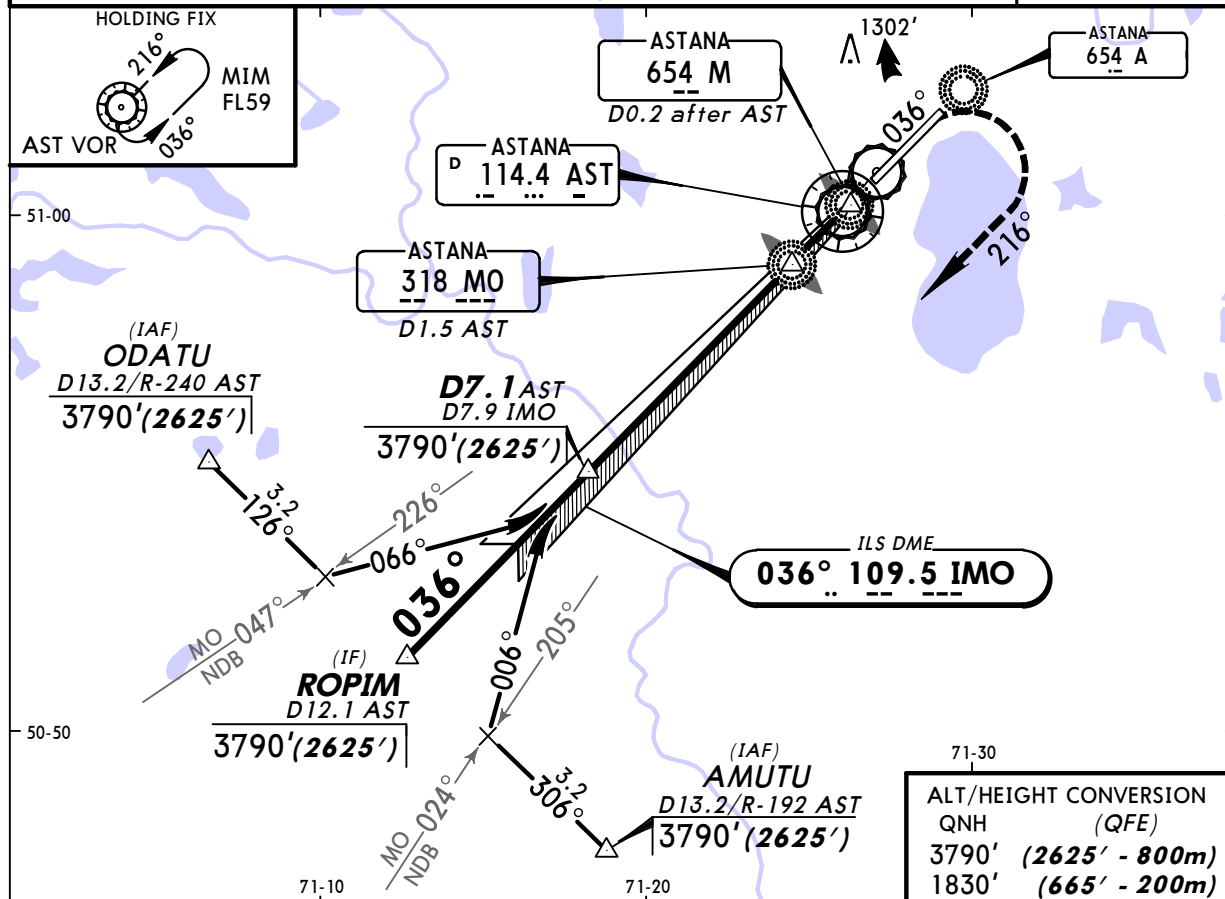
UACC/TSE ASTANA

JEPPesen
6 NOV 09 **(11-2)** Eff 19 Nov

ASTANA, KAZAKHSTAN ILS DME Y Rwy 04

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IMO 109.5	Final Apch Crs 036°	GS LOM 1943'(778')	ILS DA(H) 1365'(200')	Apt Elev 1165' RWY 1165'		2800'	
MISSED APCH: Climb on 036° to 1830'(665'), then turn RIGHT onto 216° climbing to 3790'(2625'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790'(2625') 1. RADAR required. 2. ILS DME reads zero at rwy 04 threshold.							
						MSA AST VOR	



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	1830' (665') on 036°	216° RT	3790' (2625')
GS	3.00°	377	484	538	646	753				

STRAIGHT-IN LANDING RWY 04				LOC (GS out)	
ILS					
DA(H) 1365' (200')					
FULL	TDZ or CL out	ALS out			
A					
B					
C	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	
D					

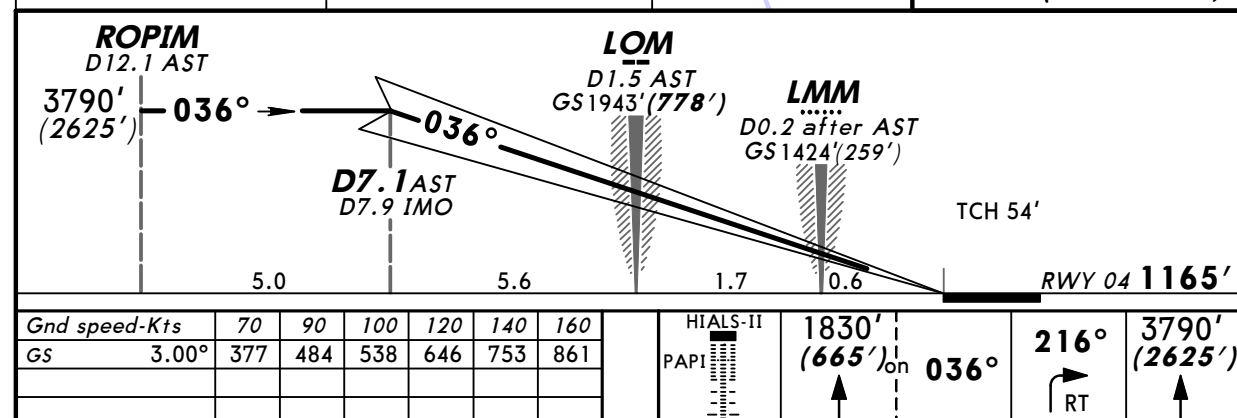
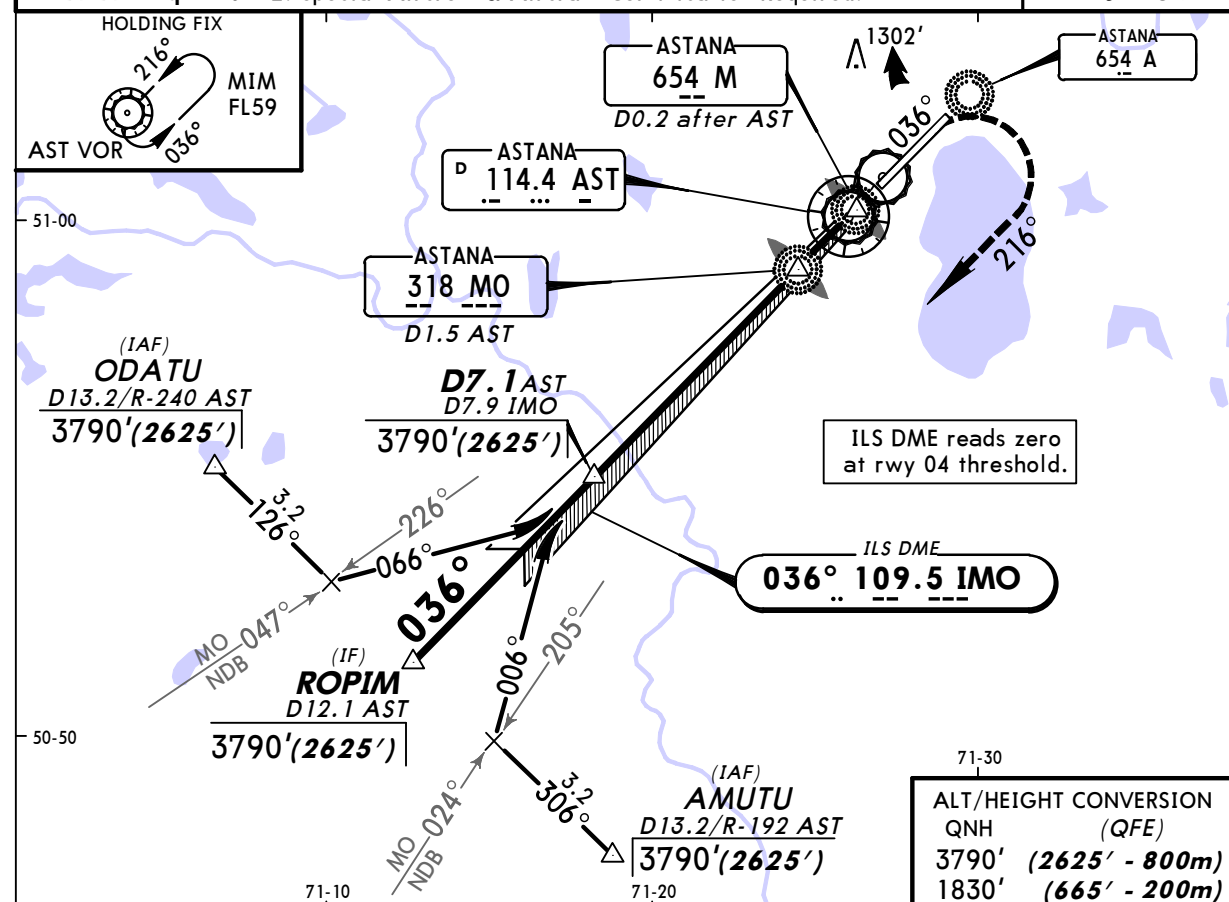
PANS OPS

UACC/TSE
ASTANA

JEPPESSEN
6 NOV 09
Eff 19 Nov (11-2A)

ASTANA, KAZAKHSTAN
CAT II ILS DME Y Rwy 04

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IMO 109.5	Final Apch Crs 036°	GS LOM 1943' (778')	CAT II ILS RA 102' DA(H) 1265' (100')	Apt Elev 1165' RWY 1165'			
MISSED APCH: Climb on 036° to 1830' (665'), then turn RIGHT onto 216° climbing to 3790' (2625'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2625') 1. RADAR required. 2. Special Aircrew & Aircraft Certification Required.							
					MSA AST VOR		



STRAIGHT-IN LANDING RWY 04

CAT II ILS

ABCD
RA 102'

$DA(H) 1265' (100')$

RVR **350m**

PANS OPS

CHANGES: New procedure.

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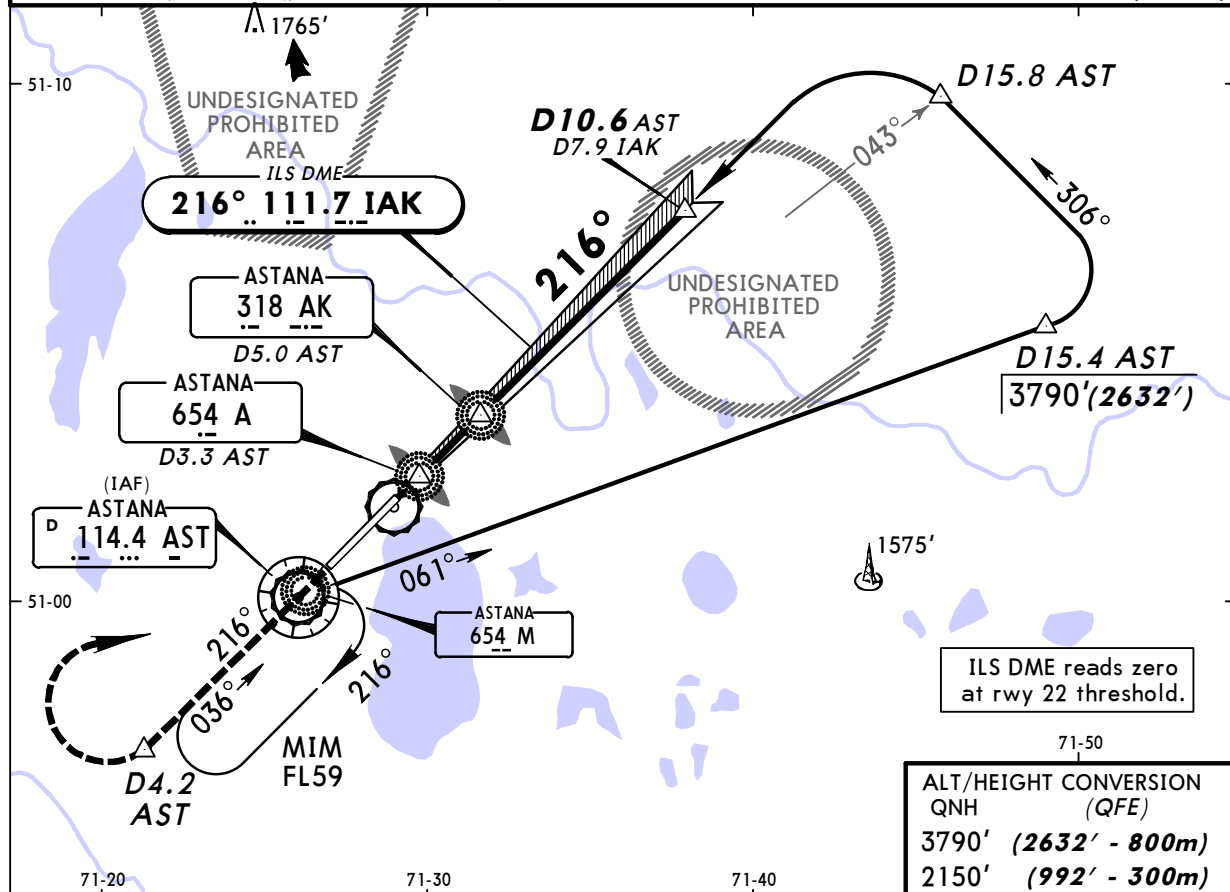
UACC/TSE ASTANA

JEPPesen
6 NOV 09 **(11-3)** **Eff 19 Nov**

ASTANA, KAZAKHSTAN ILS DME Z Rwy 22

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IAK 111.7	Final Apch Crs 216°	GS LOM 1932' (774')	ILS DA(H) 1358' (200')	Apt Elev 1165' RWY 1158'	2800' MSA AST VOR		
MISSED APCH: Climb on 216° to 2150' (992') or above outbound to D4.2 AST, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790' (2632'), then as directed.							
MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2632')							



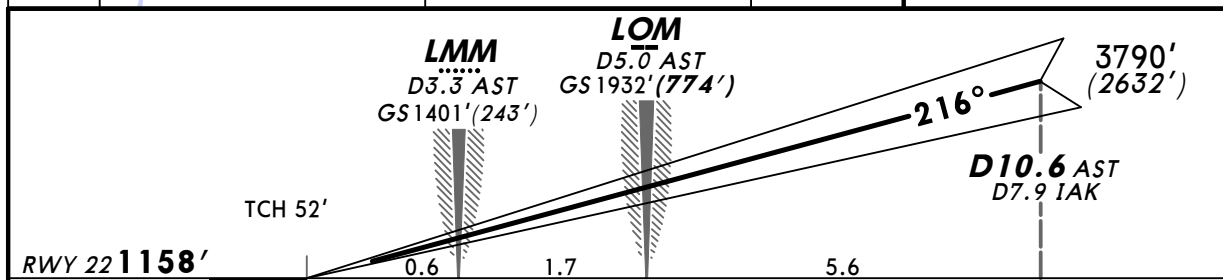
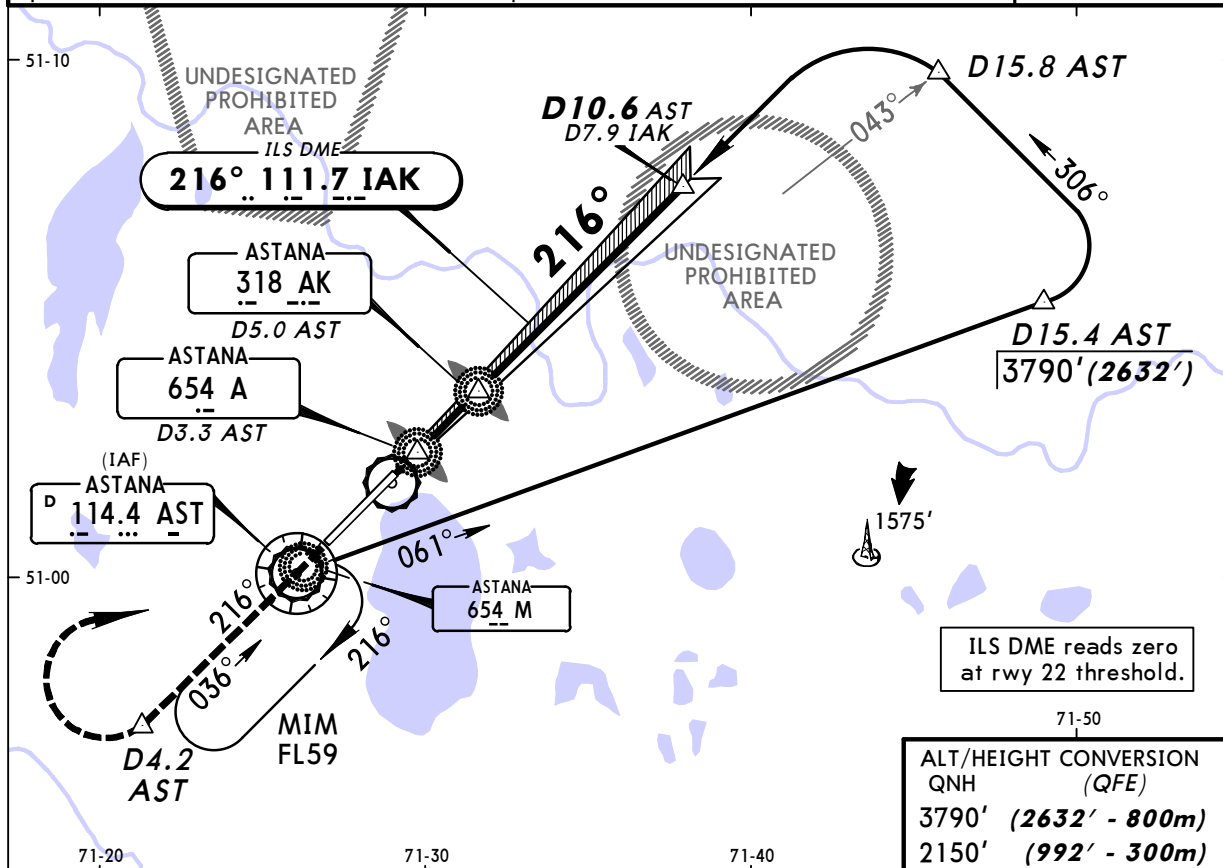
UACC/TSE ASTANA

6 NOV 09
Eff 19 Nov **(11-3A)**

ASTANA, KAZAKHSTAN CAT II ILS DME Z Rwy 22

BRIEFING STRIP

ATIS	ASTANA Approach (R)	ASTANA Tower	Ground
127.7 (Russian 128.3)	124.6	118.7	119.6
LOC IAK 111.7	Final Apch Crs 216°	GS LOM 1932' (774')	CAT II ILS RA 105' DA(H) 1258' (100')
MISSED APCH: Climb on 216° to 2150' (992') or above outbound to D4.2 AST, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790' (2632'), then as directed. MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold. Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2632') Special Aircrew & Aircraft Certification Required.			
			2800' MSA AST VOR



Gnd speed-Kts	70	90	100	120	140	160
GS	3.00°	377	484	538	646	753

STRAIGHT-IN LANDING Rwy 22
CAT II ILS
ABCD
RA 105'
DA(H) 1258' (100')

RVR 350m

PANS OPS

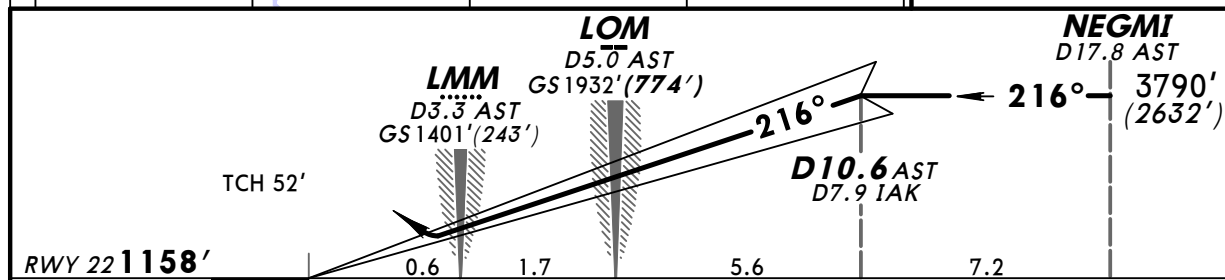
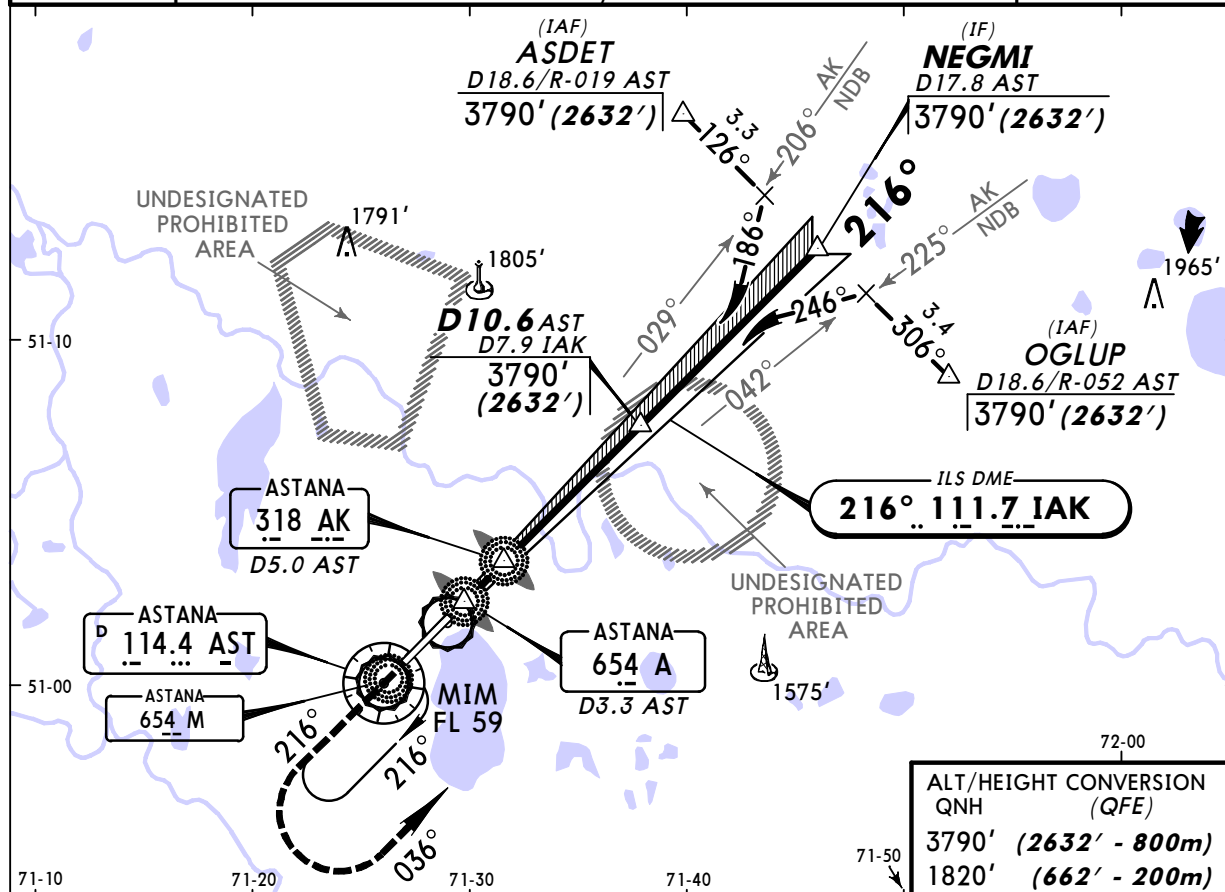
UACC/TSE ASTANA

JEPPesen
26 MAR 10 **(11-4)** Eff 8 Apr

ASTANA, KAZAKHSTAN ILS DME Y Rwy 22

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IAK 111.7	Final Apch Crs 216°	GS LOM 1932'(774')	ILS DA(H) 1358'(200')	Apt Elev 1165' RWY 1158'		2800' MSA AST VOR	
MISSED APCH: Climb on 216° to 1820'(662'), then turn LEFT onto 036° climbing to 3790'(2632'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790'(2632') 1. RADAR required. 2. ILS DME reads zero at rwy 22 threshold.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1820' (662')	216°	036°	3790' (2632')
GS	3.00°	377	484	538	646	753	861	PAPI	↑	LT	↑

STRAIGHT-IN LANDING RWY 22					
ILS			LOC (GS out)		
DA(H) 1358'(200')					
FULL		TDZ or CL out	ALS out		
A	RVR 550m VIS 800m		RVR 720m VIS 800m	1200m	NOT AUTHORIZED
B					
C					
D					

PANS OPS

UACC/TSE
ASTANA

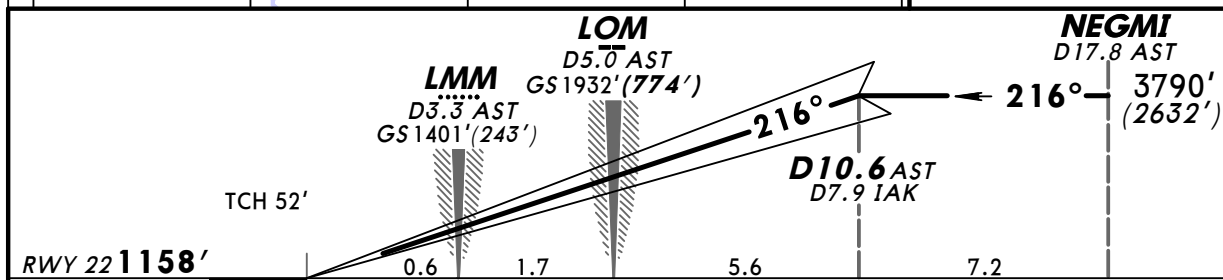
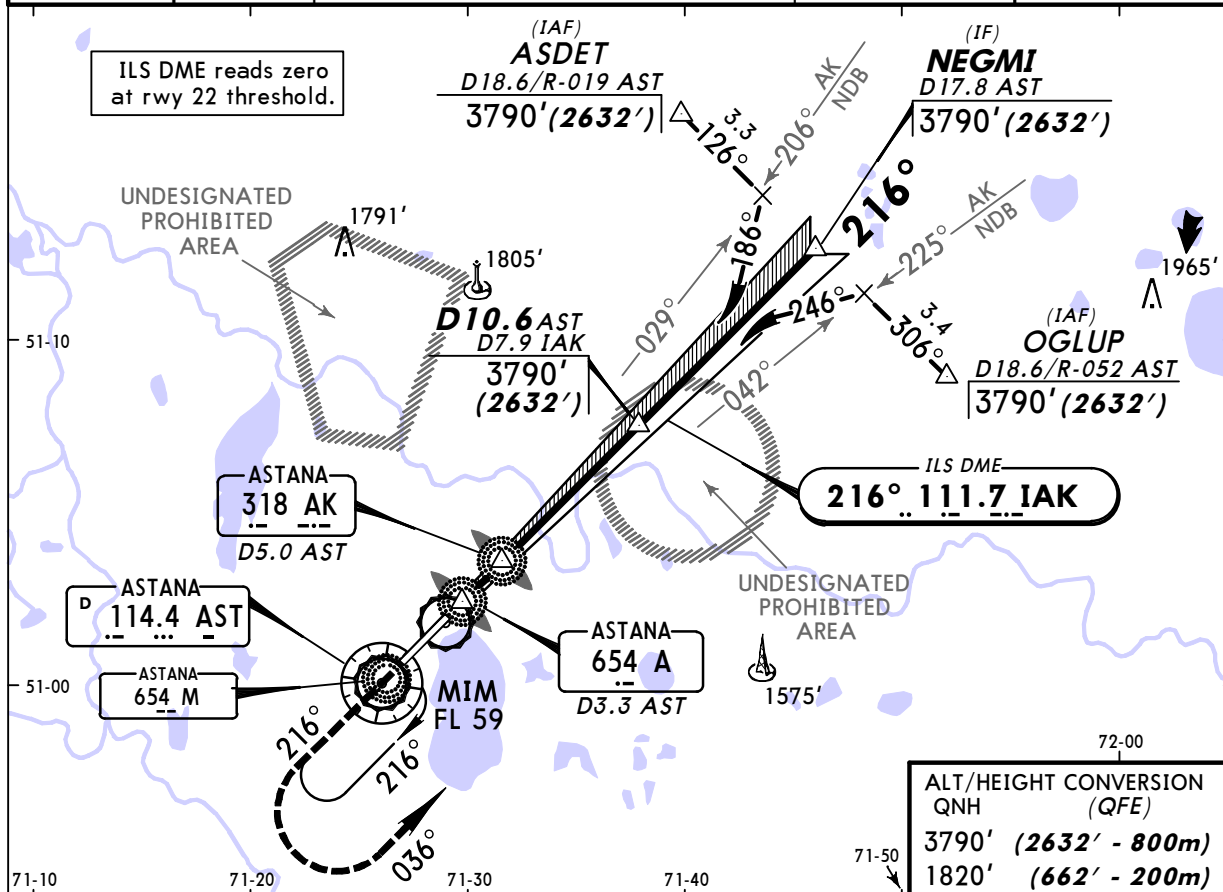
26 MAR 10
Eff 8 Apr

11-4A

ASTANA, KAZAKHSTAN
CAT II ILS DME Y Rwy 22

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
LOC IAK 111.7	Final Apch Crs 216°	GS LOM 1932'(774')	CAT II ILS RA 105' DA(H) 1258'(100')		Apt Elev 1165' RWY 1158'	2800' MSA AST VOR	
MISSED APCH: Climb on 216° to 1820'(662'), then turn LEFT onto 036° climbing to 3790'(2632'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790'(2632') 1. RADAR required. 2. Special Aircrew & Aircraft Certification Required.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1820' (662')	216°	036°	3790' (2632')
GS	3.00°	377	484	538	646	753	861	PAPI	↑	LT	↑

STRAIGHT-IN LANDING RWY 22
CAT II ILS
ABCD
RA 105'
DA(H) 1258' (100')

RVR 350m

PANS OPS

UACC/TSE ASTANA

6 NOV 09

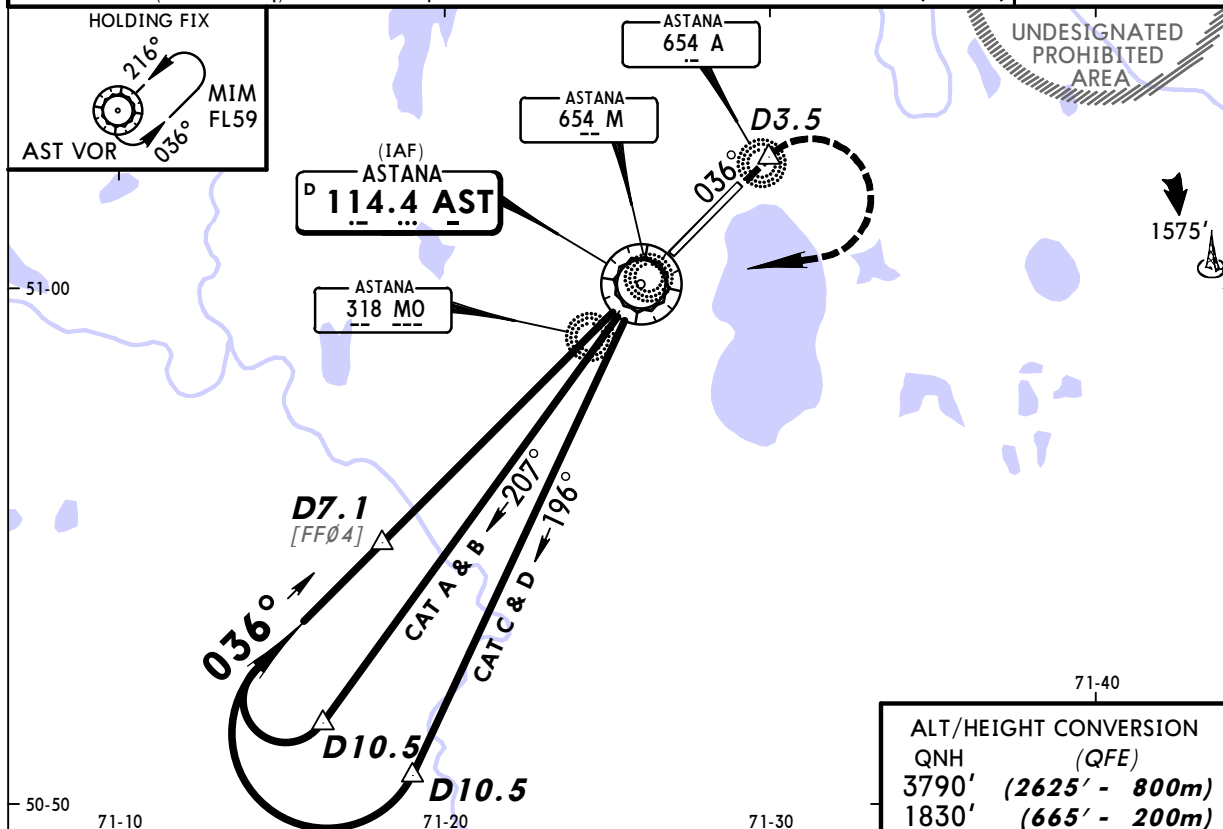
13-1

Eff 19 Nov

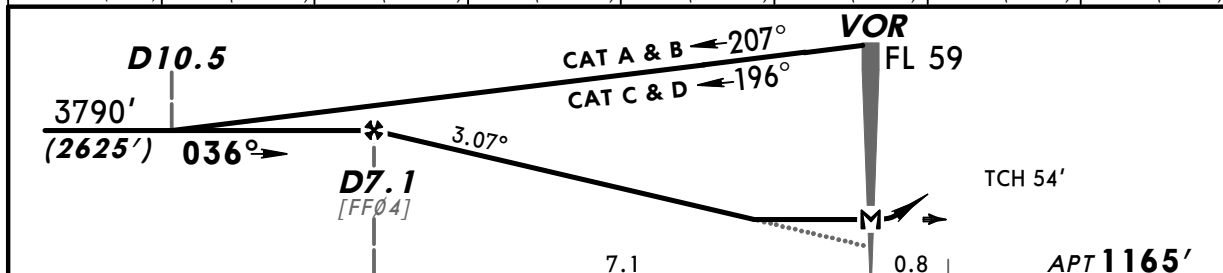
ASTANA, KAZAKHSTAN VOR DME Rwy 04

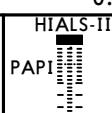
BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
VOR AST 114.4	Final Apch Crs 036°	Minimum Alt D7.1 3790'(2625')	MDA(H) Refer to Minimums	Apt Elev 1165'		2800' MSA AST VOR	
MISSED APCH: Climb on 036° to 1830' (665') or above outbound to D3.5, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790' (2625'), then as directed.							
MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold.							
Alt Set: MM(hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2625')							



AST DME	6.0	5.0	4.0	3.0	2.0	1.0	0.5
ALTITUDE (HAT)	3380' (2215')	3080' (1915')	2750' (1585')	2440' (1275')	2110' (945')	1800' (635')	1630' (465')



Gnd speed-Kts	70	90	100	120	140	160		1830' (665') or above on 036°	D3.5
Descent angle	3.07°	380	489	543	652	760			
MAP at VOR									

STRAIGHT-IN LANDING RWY 04		ALS out	
MDA(H)	AB: 1830' (665') CD: 2150' (985')		

PANS OPS

A	3000m	
B		
C	5000m	
D		

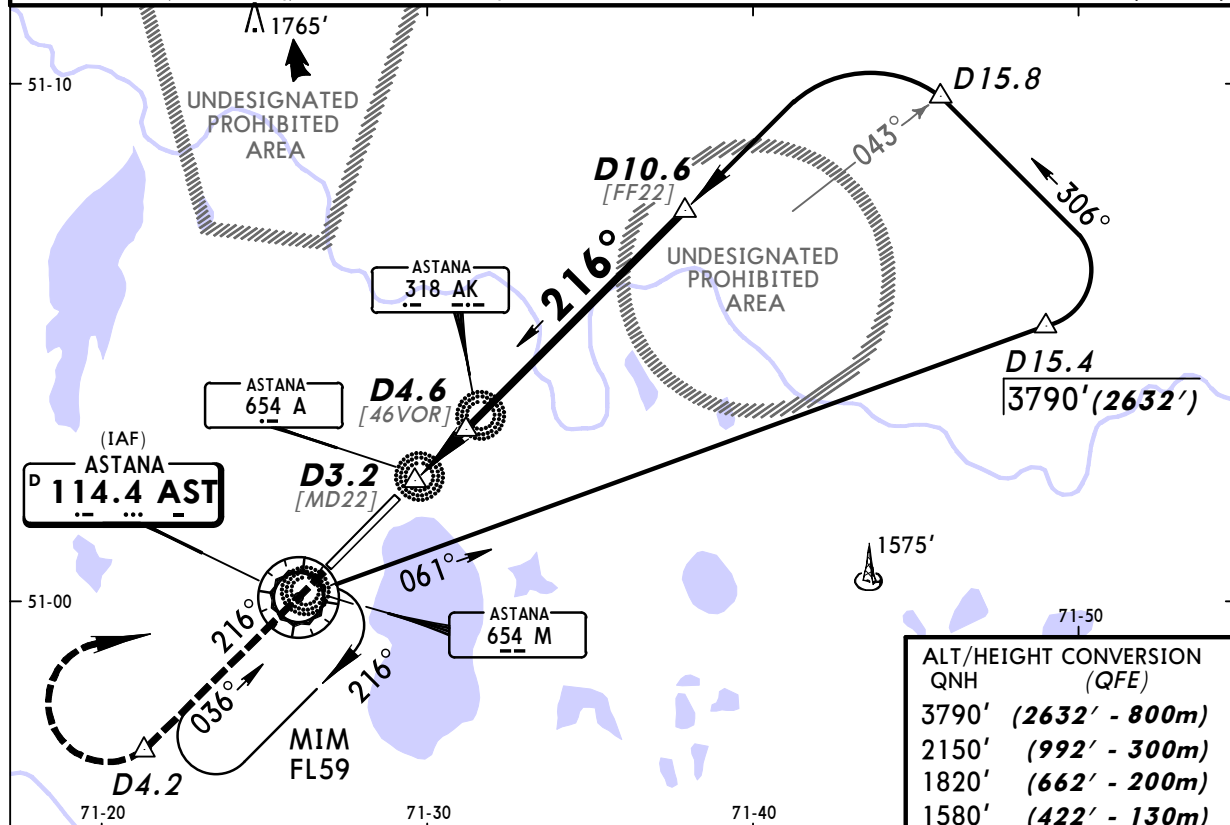
UACC/TSE ASTANA

JEPPesen
6 NOV 09 **(13-2)** **Eff 19 Nov**

ASTANA, KAZAKHSTAN VOR DME Rwy 22

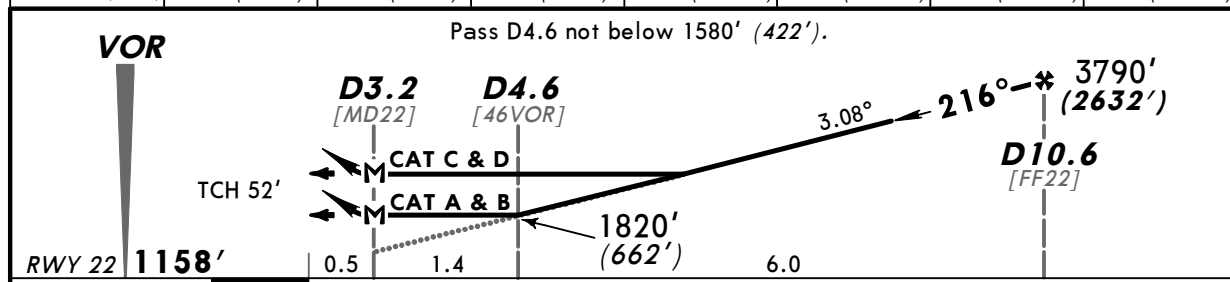
BRIEFING STRIP

ATIS	ASTANA Approach (R)	ASTANA Tower	Ground
127.7 (Russian 128.3)	124.6	118.7	119.6
VOR AST 114.4	Final Apch Crs 216°	Minimum Alt D10.6 3790' (2632')	MDA(H) Refer to Minimums Apt Elev 1165' RWY 1158'
MISSED APCH: Climb on 216° to 2150' (992') or above outbound to D4.2, then turn RIGHT (MAX 225 KT) to VOR. Climb initially to 3790' (2632'), then as directed. MISSED APCH WITH COMM FAILURE: Climb to FL 59 to VOR and hold.			
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2632')			



ALT/HEIGHT CONVERSION	QNH	(QFE)
3790'	(2632' - 800m)	
2150'	(992' - 300m)	
1820'	(662' - 200m)	
1580'	(422' - 130m)	

AST DME	3.0	4.0	5.0	6.0	7.0	9.0	10.0
ALTITUDE (HAT)	1310' (152')	1630' (472')	1950' (792')	2260' (1102')	2590' (1432')	3220' (2062')	3530' (2372')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAP: 	2150' (992') or above on	216°	D4.2
Descent angle 3.08°	381	490	545	654	763	872				
MAP at D3.2										

STRAIGHT-IN LANDING RWY 22		ALS out	
AB: 1820' (662')			
CD: 2150' (992')			
A	3000m		
B			
C	5000m		
D			

PANS OPS

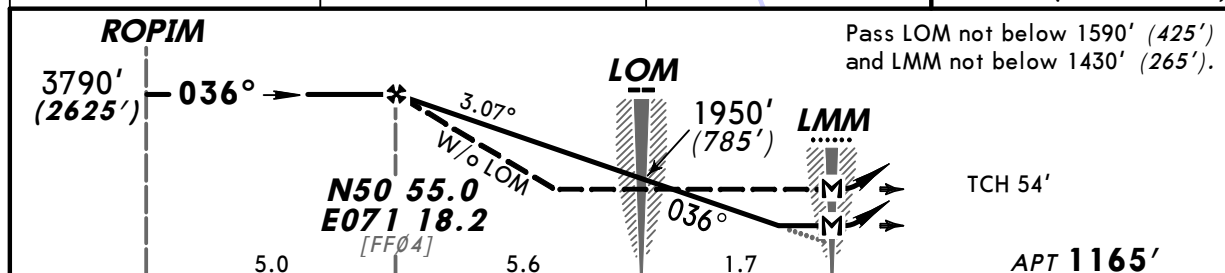
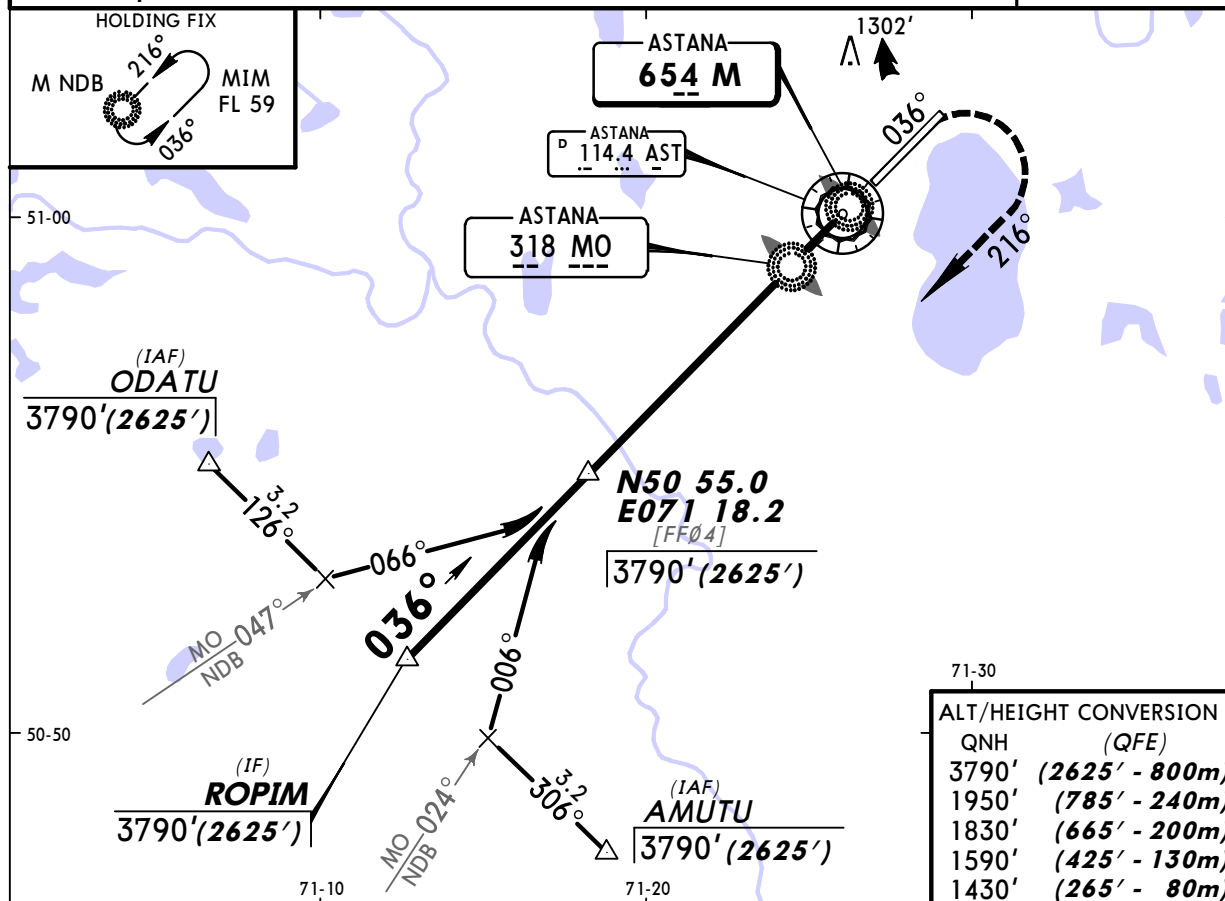
UACC/TSE ASTANA

JEPPesen
26 MAR 10 (16-1) Eff 8 Apr

ASTANA, KAZAKHSTAN 2 NDB Rwy 04

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
NDB M 654	Final Apch Crs 036°	Minimum Alt N50 55.0 E071 18.2 3790' (2625')		MDA(H) Refer to Minimums	Apt Elev 1165'		2800' MSA M NDB
MISSED APCH: Climb on 036° to 1830' (665'), then turn RIGHT onto 216° climbing to 3790' (2625'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790' (2625') RADAR required.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1830' (665')	036°	216°	3790' (2625')
Descent angle	3.07°	380	489	543	652	760	869				
MAP at LMM											

STRAIGHT-IN LANDING RWY 04			
With LOM		W/o LOM	
MDA(H) A: 1470' (305') BCD: 1500' (335')		MDA(H) 1590' (425')	
ALS out		ALS out	
A	1400m	A	1400m
B		B	
C	RVR 1500m VIS 1600m	C	RVR 1500m VIS 1600m
D		D	

PANS OPS

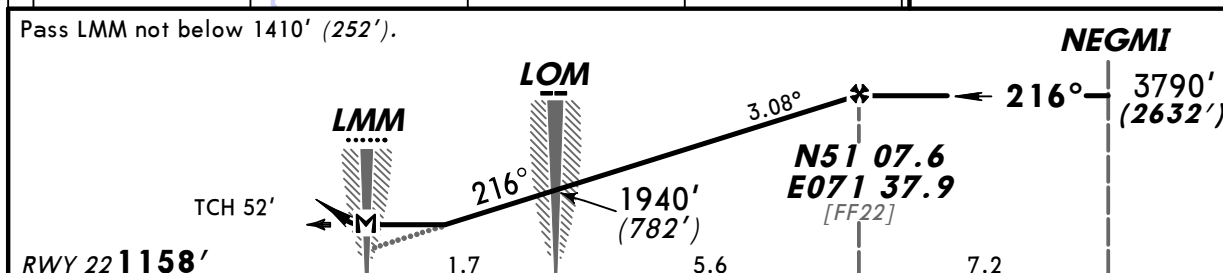
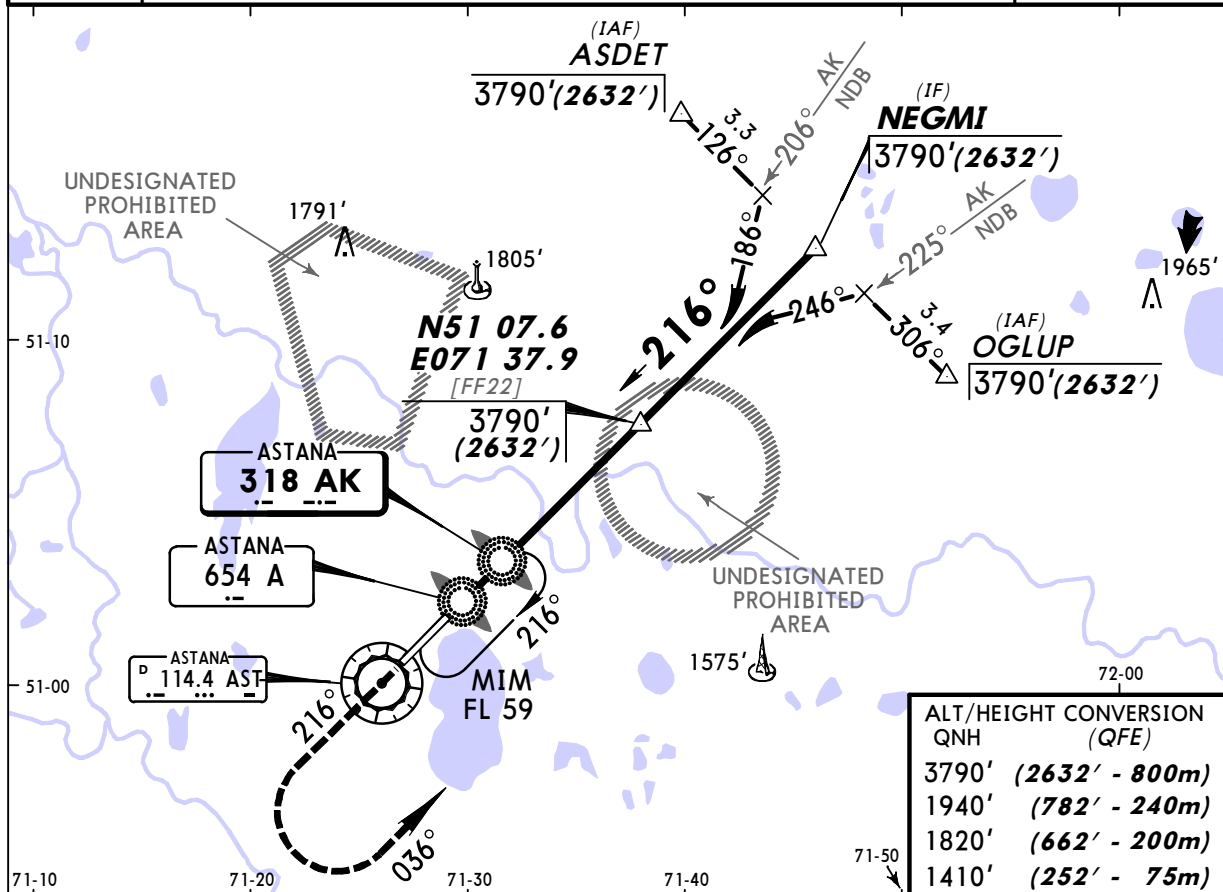
UACC/TSE ASTANA

JEPPesen
26 MAR 10 **(16-2)** Eff 8 Apr

ASTANA, KAZAKHSTAN 2 NDB Rwy 22

BRIEFING STRIP

ATIS		ASTANA Approach (R)		ASTANA Tower		Ground	
127.7 (Russian 128.3)		124.6		118.7		119.6	
NDB AK 318	Final Apch Crs 216°	Minimum Alt N51 07.6 E071 37.9 3790'(2632')		MDA(H) 1490'(332')	Apt Elev 1165' RWY 1158'	2800' MSA AK NDB	
MISSED APCH: Climb on 216° to 1820'(662'), then turn LEFT (MAX 225 KT) onto 036° climbing to 3790'(2632'), then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 Trans alt: 3790'(2632') RADAR required.							



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