

USPP/PEE
BOLSHOYE SAVINO

JEPPESEN

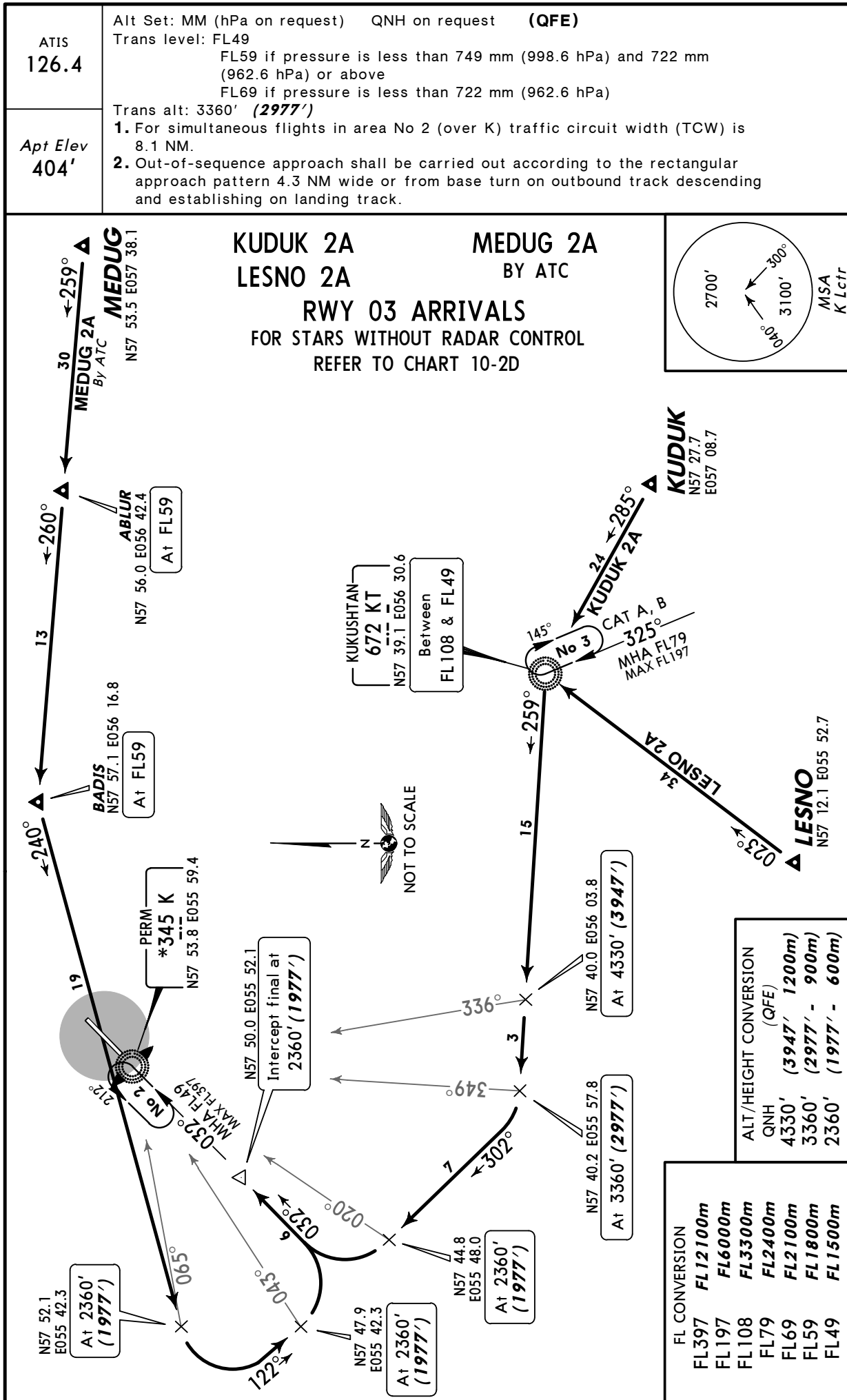
1 FEB 08

10-2

Eff 14 Feb

PERM, RUSSIA

STAR



USPP/PEE
BOLSHOYE SAVINO

1 FEB 08

(10-2A)

Eff 14 Feb

PERM, RUSSIA

STAR

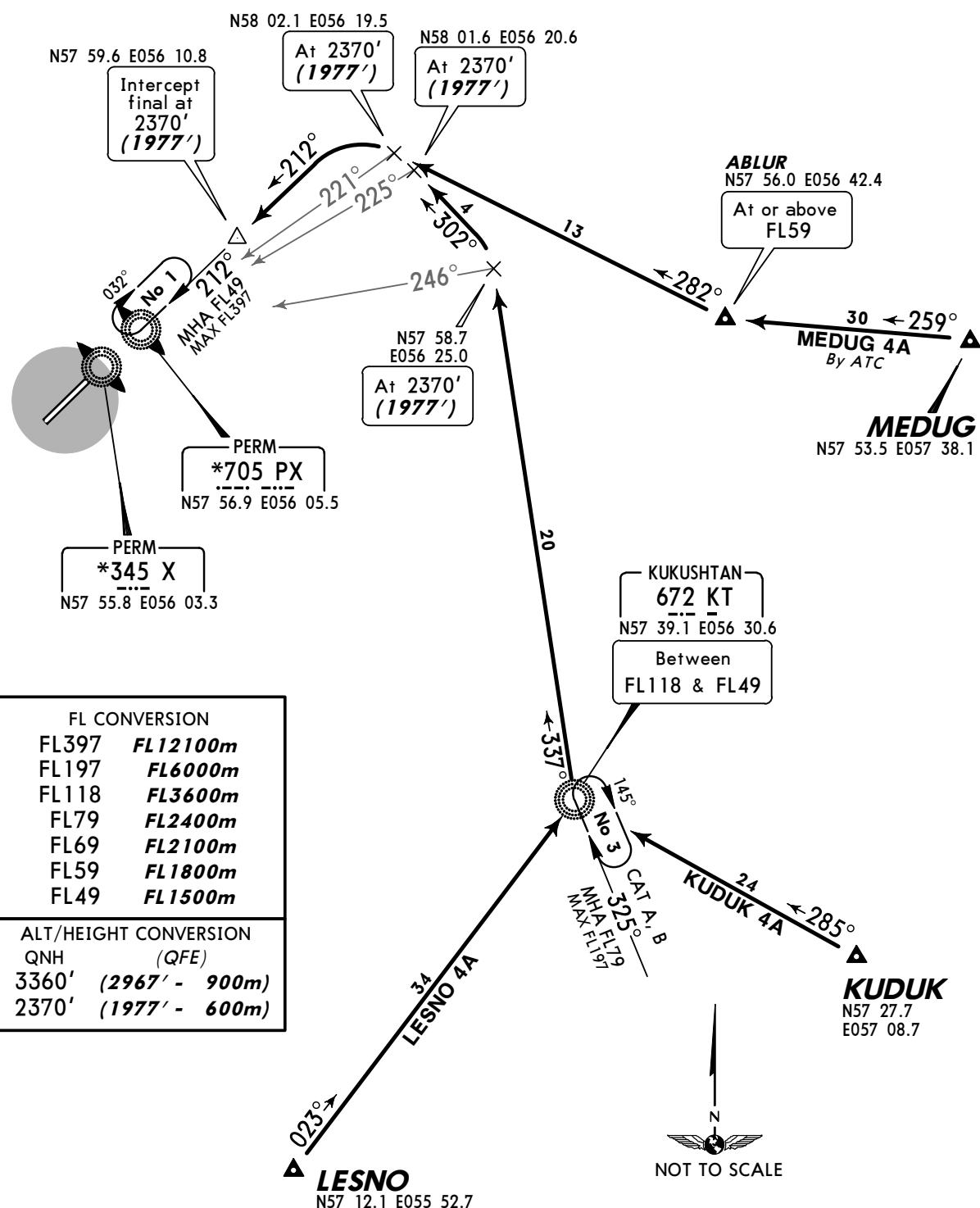
ATIS 126.4	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL49 FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above FL69 if pressure is less than 722 mm (962.6 hPa)	
<i>Apt Elev</i> 404'	Trans alt: 3360' (2967') 1. For simultaneous flights in area No 1 (over PX) traffic circuit width (TCW) is 8.1 NM. 2. Out-of-sequence approach shall be carried out according to the rectangular approach pattern 4.3 NM wide or from base turn on outbound track descending and establishing on landing track.	

KUDUK 4A
LESNO 4A

MEDUG 4A
BY ATC

RWY 21 ARRIVALS

FOR STARS WITHOUT RADAR CONTROL
REFER TO CHART 10-2E



CHANGES: STARs completely revised.

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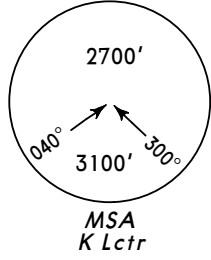
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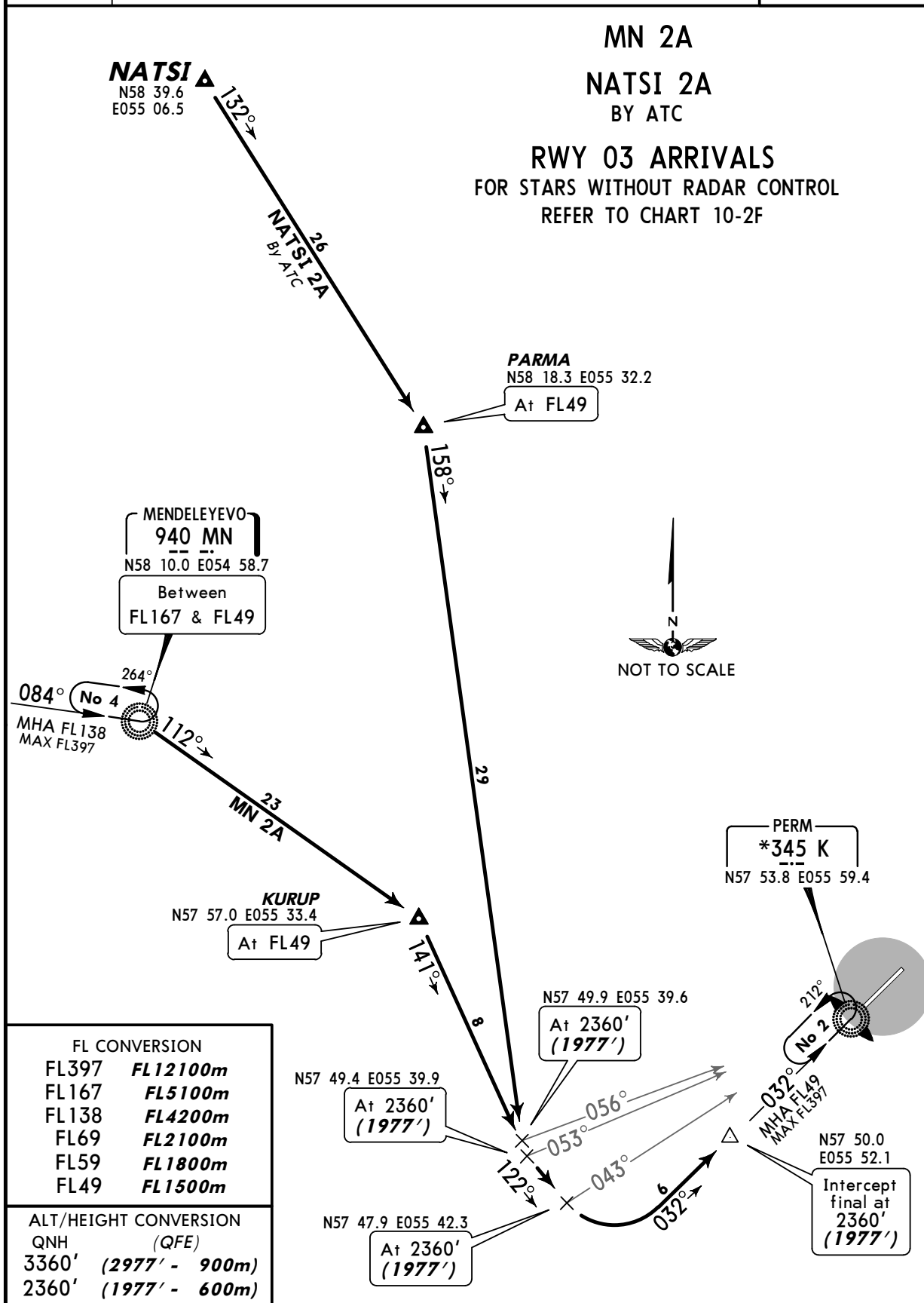
10-2B

Eff 14 Feb

PERM, RUSSIA

STAR

ATIS 126.4	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL49 FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above FL69 if pressure is less than 722 mm (962.6 hPa) Trans alt: 3360' (2977')	
Apt Elev 404'	1. For simultaneous flights in area No 2 (over K) traffic circuit width (TCW) is 8.1 NM. 2. Out-of-sequence approach shall be carried out according to the rectangular approach pattern 4.3 NM wide or from base turn on outbound track descending and establishing on landing track.	



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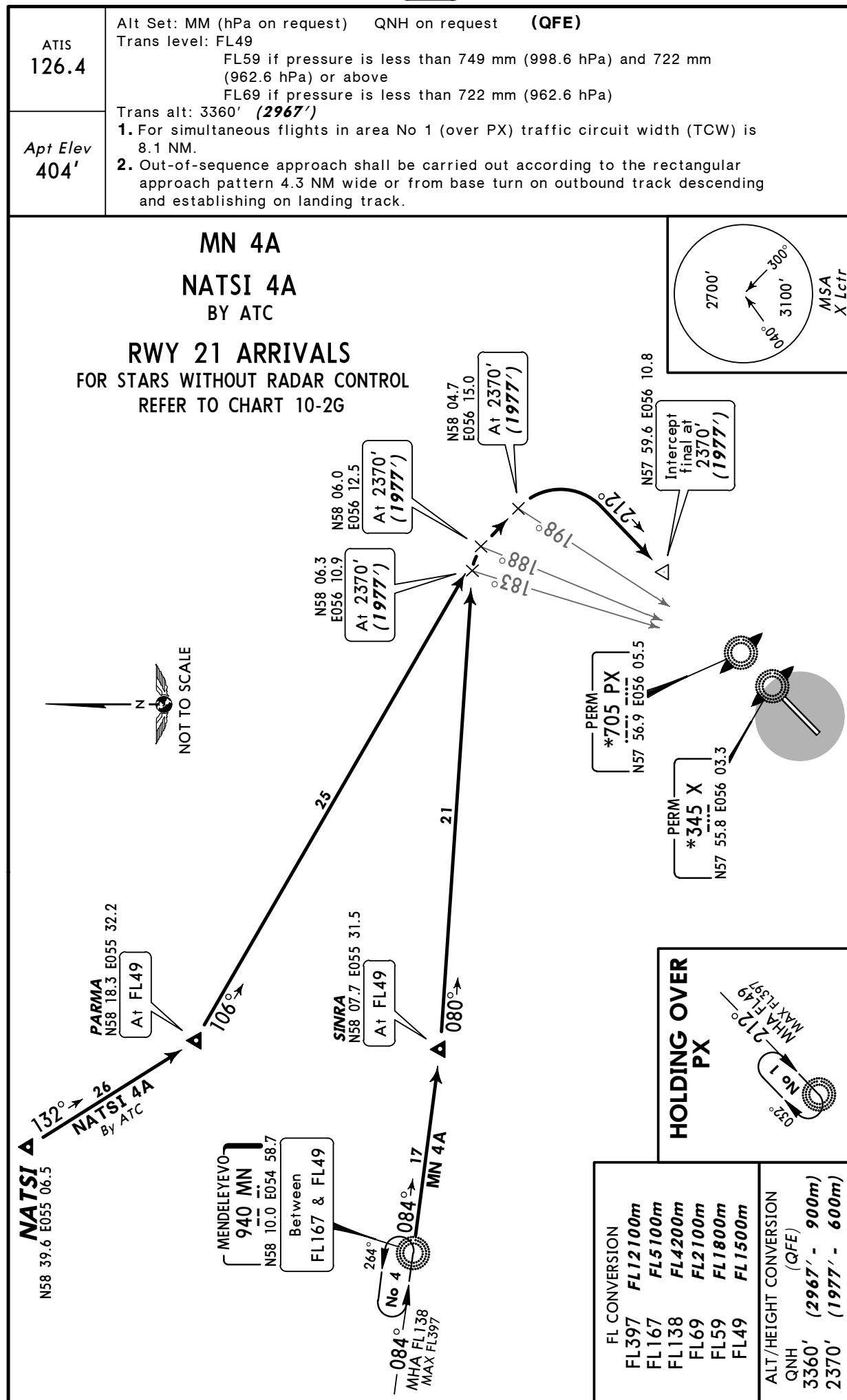
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10-2C

Eff 14 Feb

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STAR



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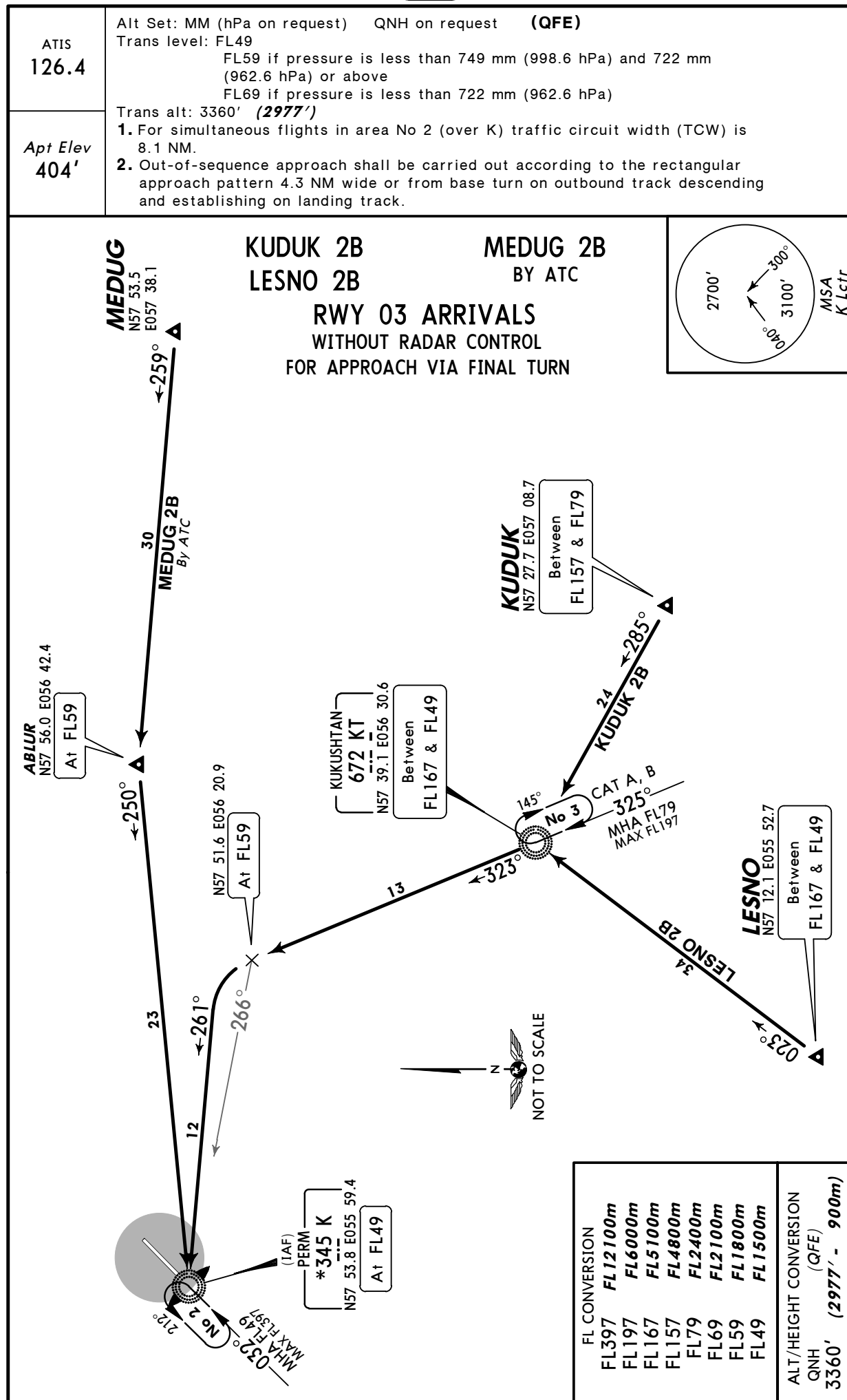
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10-2D

Eff 14 Feb

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STAR



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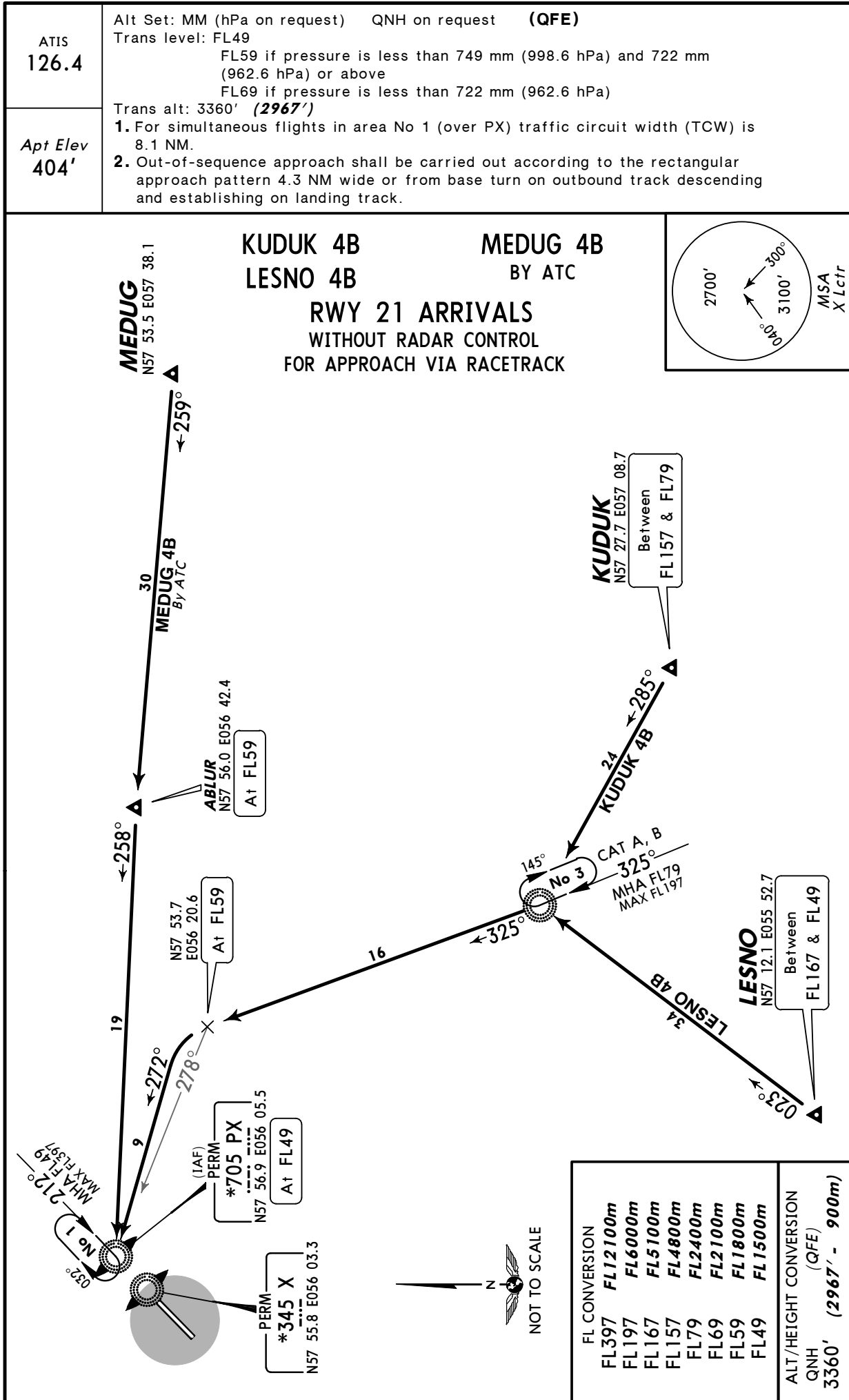
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10-2E

Eff 14 Feb

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STAR



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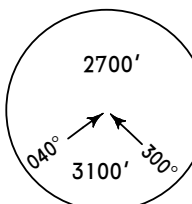
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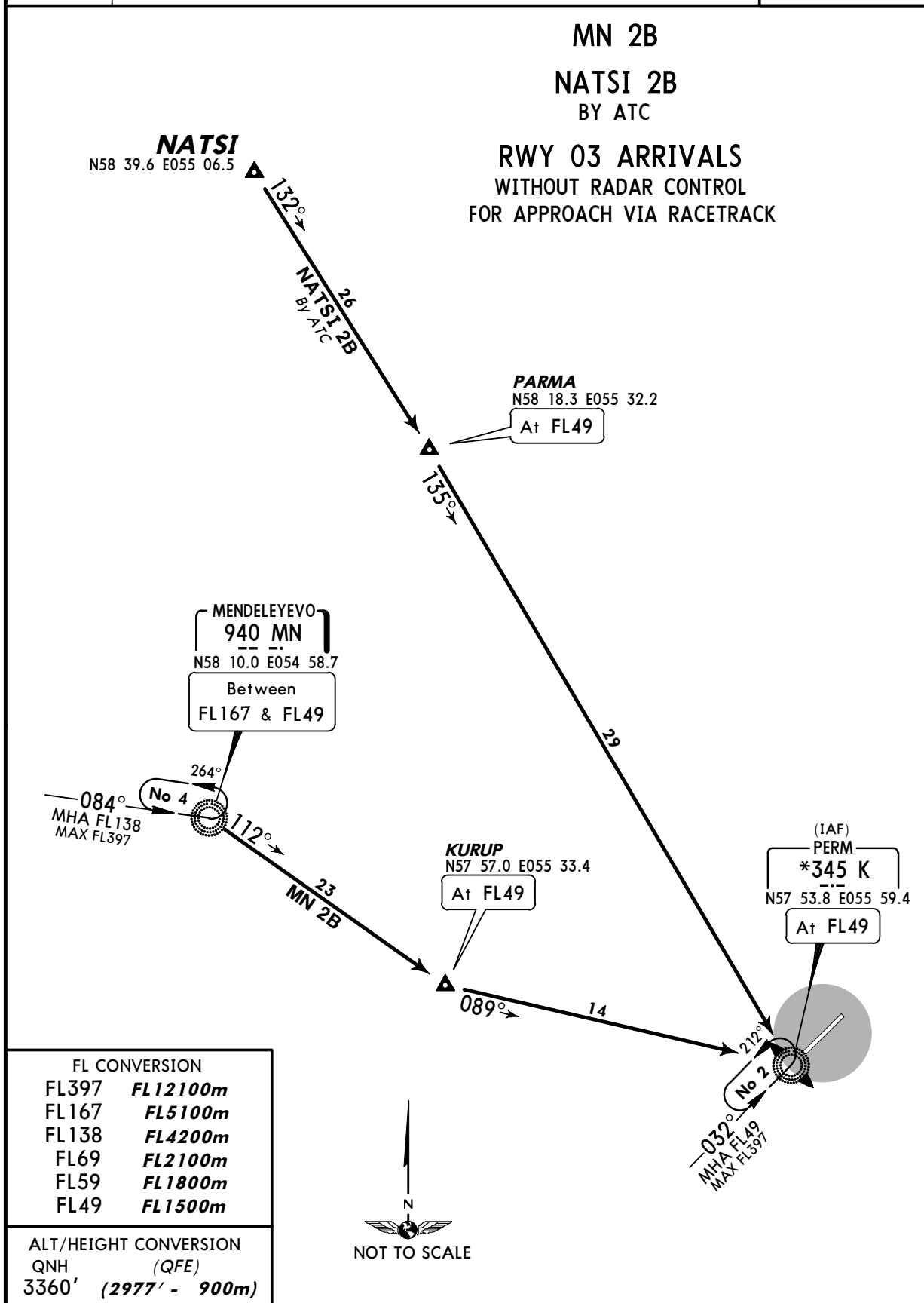
10-2F

Eff 14 Feb

PERM, RUSSIA

STAR

ATIS 126.4	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL49 FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above FL69 if pressure is less than 722 mm (962.6 hPa)	 MSA K Lctr
Apt Elev 404'	Trans alt: 3360' (2977') 1. For simultaneous flights in area No 2 (over K) traffic circuit width (TCW) is 8.1 NM. 2. Out-of-sequence approach shall be carried out according to the rectangular approach pattern 4.3 NM wide or from base turn on outbound track descending and establishing on landing track.	



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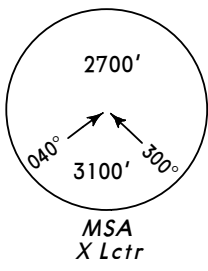
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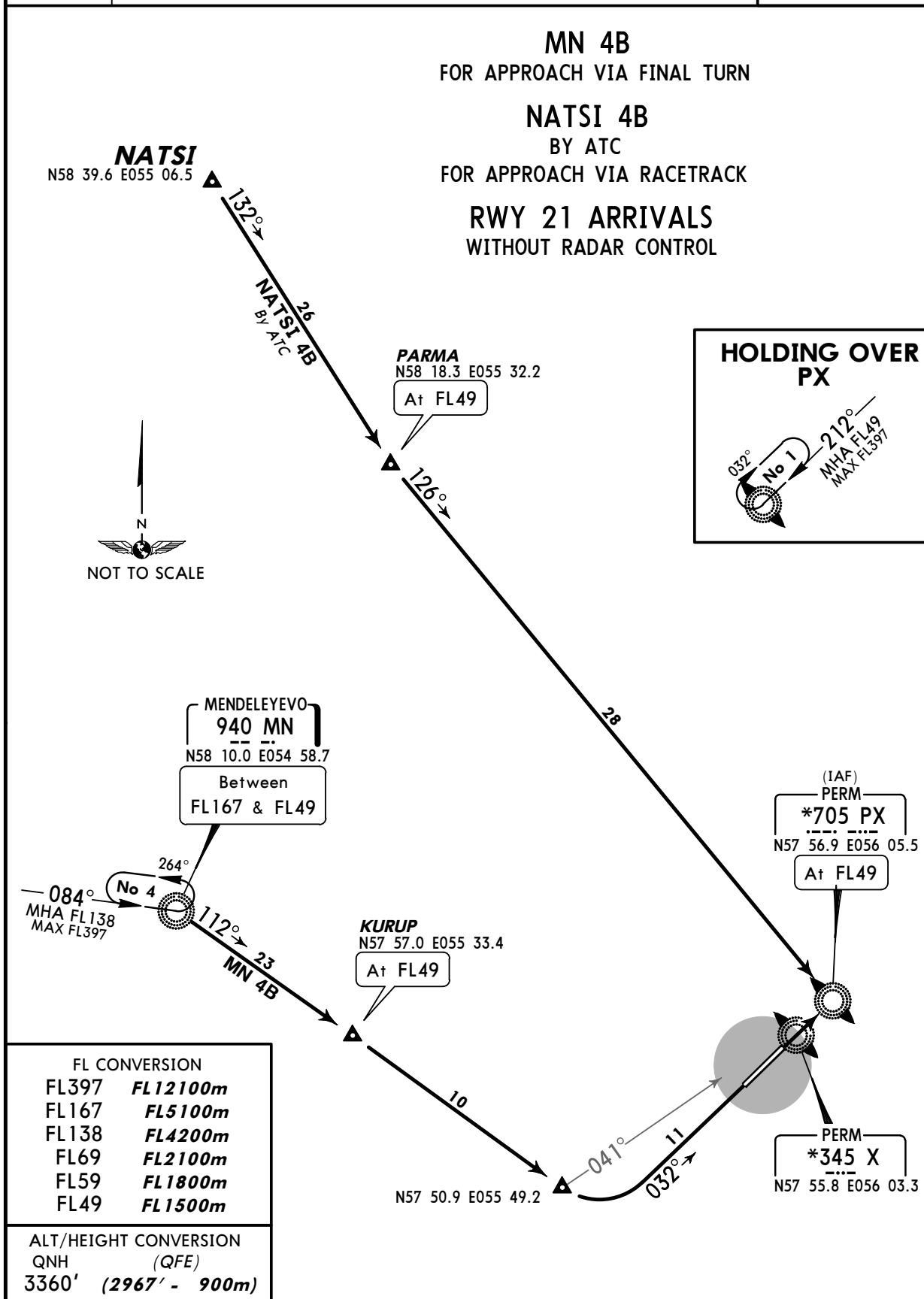
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Eff 14 Feb

PERM, RUSSIA

STAR

ATIS 126.4	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL49 FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above FL69 if pressure is less than 722 mm (962.6 hPa)	
<i>Apt Elev</i> 404'	Trans alt: 3360' (2967') 1. For simultaneous flights in area No 1 (over PX) traffic circuit width (TCW) is 8.1 NM. 2. Out-of-sequence approach shall be carried out according to the rectangular approach pattern 4.3 NM wide or from base turn on outbound track descending and establishing on landing track.	



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1 FEB 08

10-3

Eff 14 Feb

PERM, RUSSIA

SID

Apt Elev
404'

QNH on request (QFE)

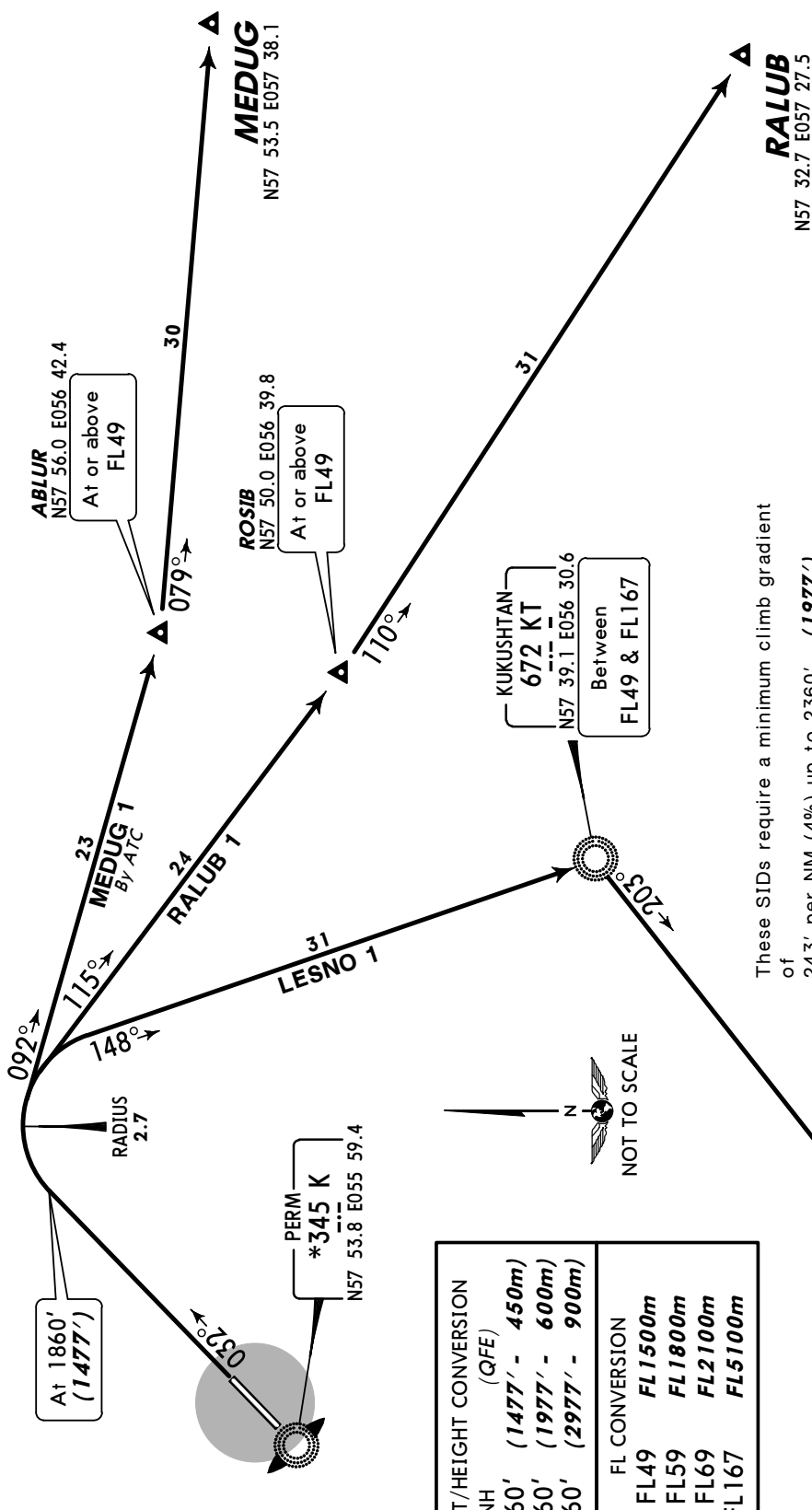
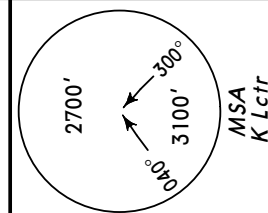
Trans level: FL49

FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above

FL69 if pressure is less than 722 mm (962.6 hPa)

Trans alt: 3360' (2977')

LESNO 1, MEDUG 1, RALUB 1
RWY 03 DEPARTURES
TO EAST & SOUTH



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1860'	(1477' - 450m)
2360'	(1977' - 600m)
3360'	(2977' - 900m)

FL CONVERSION	
FL49	FL1500m
FL59	FL1800m
FL69	FL2100m
FL167	FL5100m

SID	ROUTING
LESNO 1	Climb straight ahead to 1860' (1477'), turn RIGHT, intercept 148° bearing to KT, turn RIGHT, 203° bearing to LESNO.
MEDUG 1 By ATC	Climb straight ahead to 1860' (1477'), turn RIGHT, 092° track to ABLUR, turn LEFT, 079° track to MEDUG.
RALUB 1	Climb straight ahead to 1860' (1477'), turn RIGHT, 115° track to ROSIB, turn LEFT, 110° track to RALUB.

USPP/PEE
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1 FEB 08

10-3A

Eff 14 Feb

PERM, RUSSIA

SID

Apt Elev
404'

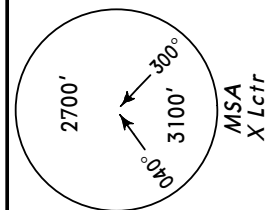
QNH on request (QFE)

Trans level: FL49

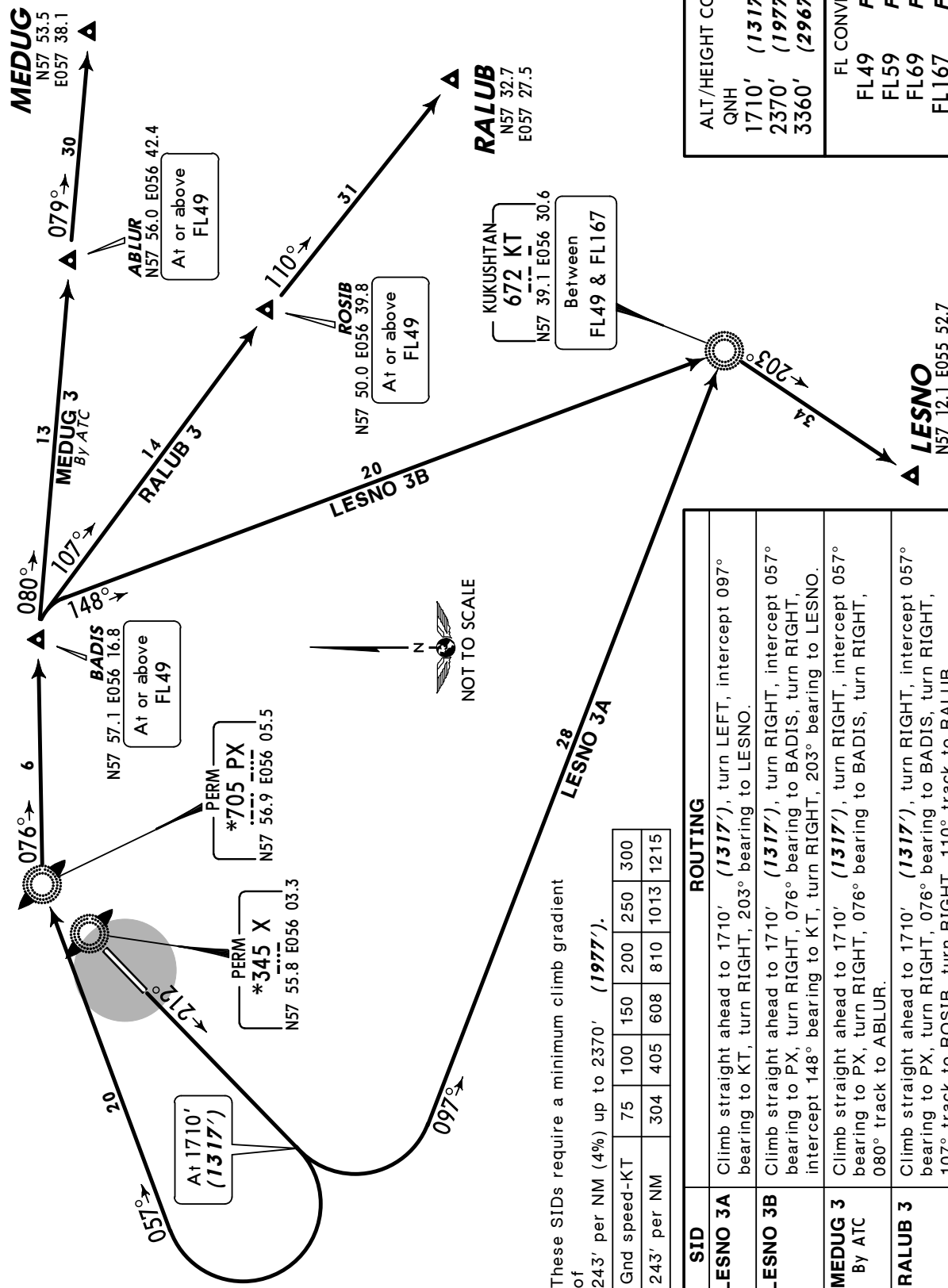
FL59 if pressure is less than 749 mm (998.6 hPa)
and 722 mm (962.6 hPa) or above

FL69 if pressure is less than 722 mm (962.6 hPa)

Trans alt: 3360' (2967')



LESNO 3A, LESNO 3B, MEDUG 3, RALUB 3
RWY 21 DEPARTURES
TO EAST & SOUTH



ALT/HEIGHT CONVERSION (QFE)	
QNH	(1317' - 400m)
1710'	(1977' - 600m)
2370'	(2967' - 900m)
3360'	
FL CONVERSION	
FL49	FL1500m
FL59	FL1800m
FL69	FL2100m
FL167	FL5100m

SID	ROUTING
LESNO 3A	Climb straight ahead to 1710' (1317'), turn LEFT, intercept 097° bearing to KT, turn RIGHT, 203° bearing to LESNO.
LESNO 3B	Climb straight ahead to 1710' (1317'), turn RIGHT, intercept 057° bearing to PX, turn RIGHT, 076° bearing to BADIS, turn RIGHT, intercept 148° bearing to KT, turn RIGHT, 203° bearing to LESNO.
MEDUG 3 By ATC	Climb straight ahead to 1710' (1317'), turn RIGHT, intercept 057° bearing to PX, turn RIGHT, 076° bearing to BADIS, turn RIGHT, 080° track to ABLUR.
RALUB 3	Climb straight ahead to 1710' (1317'), turn RIGHT, intercept 057° bearing to PX, turn RIGHT, 076° bearing to BADIS, turn RIGHT, 107° track to ROSIB, turn RIGHT, 110° track to RALUB.

These SIDs require a minimum climb gradient of 243' per NM (4%) up to 2370' (1977').

Gnd speed-KT	75	100	150	200	250	300
243' per NM	304	405	608	810	1013	1215

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1 FEB 08

10-3B

Eff 14 Feb

PERM, RUSSIA

SID

Apt Elev
404'

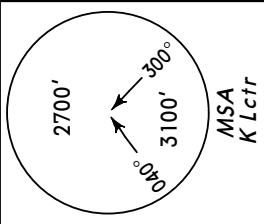
QNH on request (QFE)

Trans level: FL49

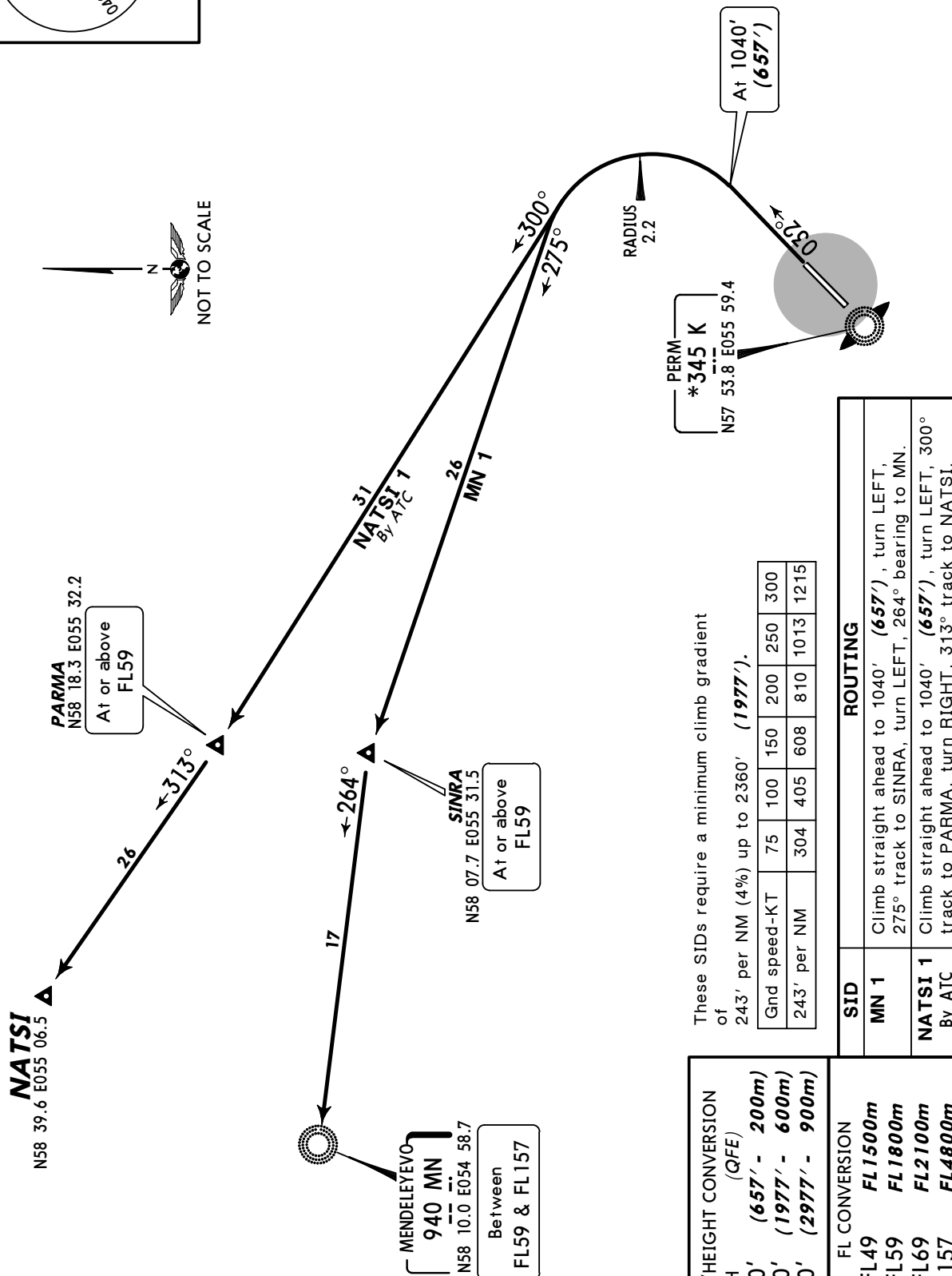
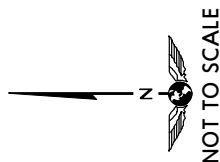
FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above

FL69 if pressure is less than 722 mm (962.6 hPa)

Trans alt: 3360' (2977')



MN 1, NATSI 1 RWY 03 DEPARTURES TO WEST



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1 FEB 08

10-3C

Eff 14 Feb

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SID

Apt Elev
404'

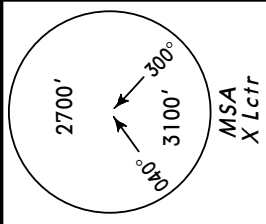
QNH on request (QFE)

Trans level: FL49

FL59 if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above

FL69 if pressure is less than 722 mm (962.6 hPa)

Trans alt: 3360' (2967')



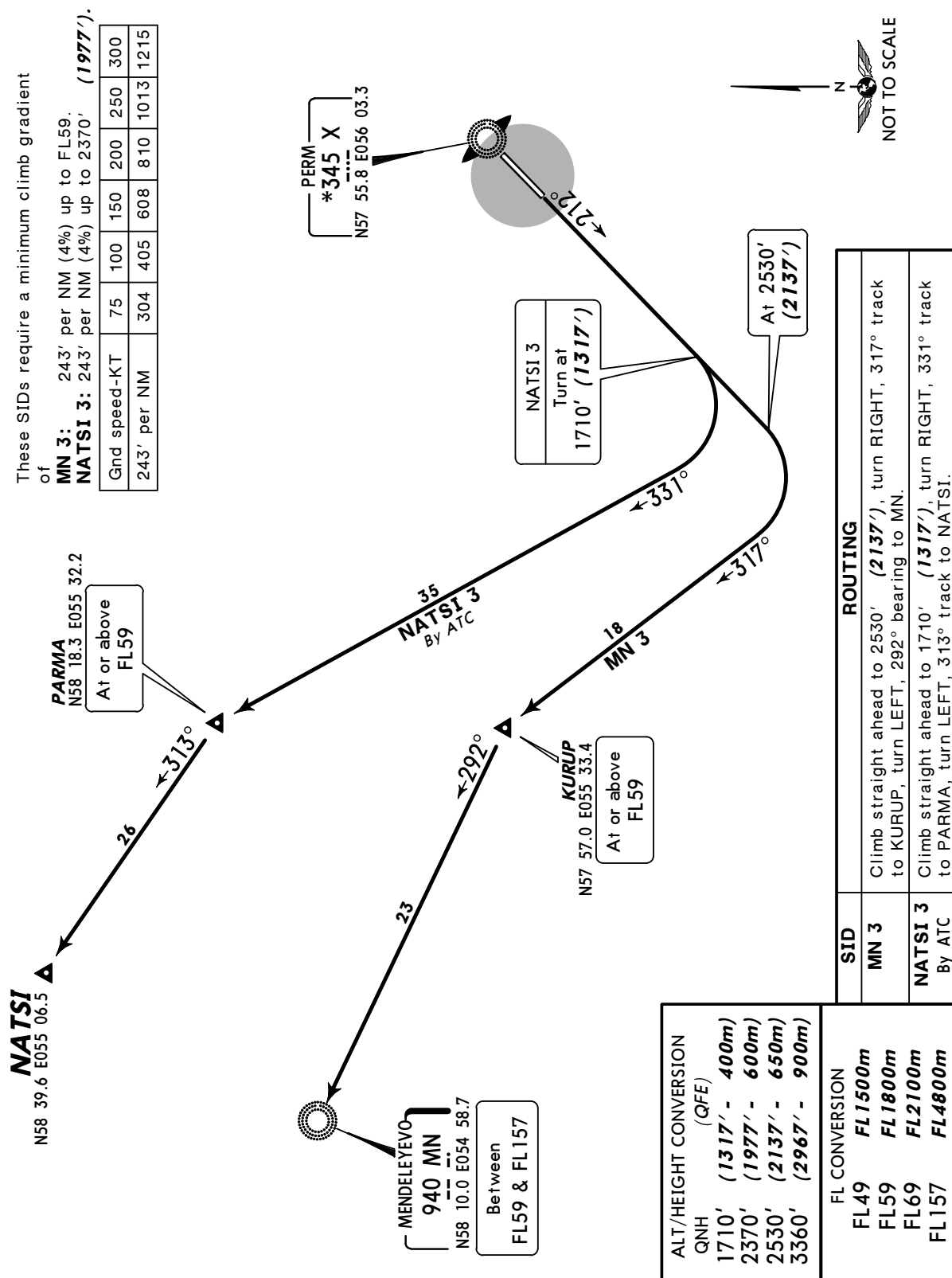
MN 3, NATSI 3 RWY 21 DEPARTURES TO WEST

These SIDs require a minimum climb gradient of

MN 3: 243' per NM (4%) up to FL59.

NATSI 3: 243' per NM (4%) up to 2370' (1977').

Gnd speed-KT	75	100	150	200	250	300
243' per NM	304	405	608	810	1013	1215



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BOLSHOYE SAVINO

1 FEB 08

10-4

Eff 14 Feb

NOISE

NOISE ABATEMENT**GENERAL**

Noise abatement procedures shall be executed by all aircraft.

If special meteorological conditions are present in arrival and approach sectors, ATS may at its own discretion or by a PICs request deviate from the provisions given below, if it is necessary for safety reasons.

DEPARTURES**SPECIAL TAKE-OFF PROCEDURES**

Flight crews shall use the following special procedure during take-off from runway 03 and execution of SID LESNO 1, MEDUG 1 or RALUB 1.

Take-off and climbing to 1860' (1477')

Take-off power

Take-off flaps

Landing gear shall be set into en-route position

$V_2 + 11 - 22$ KT

At 1860' (1477')

Reduce engine power to minimum while maintaining positive rate of climb

Between 1860' (1477') - 3360' (2977')

Maintain engine power

Wing devices shall be set into take-off or intermediate position according to Airplane Flight Manual

Climb at $V_2 + 11 - 22$ KT taking into account restrictions connected with angle and pitch;

Execute first turn not before 5.4 NM from runway

At 3360' (2977')

Reduce rate of climb

Accelerate to speed of wing devices set into en-route position

Wing devices shall be set into phase-by-phase enroute position

Above 3360' (2977')

Further climb shall be executed at speed recommended by the Airplane Flight Manual

Restrictions

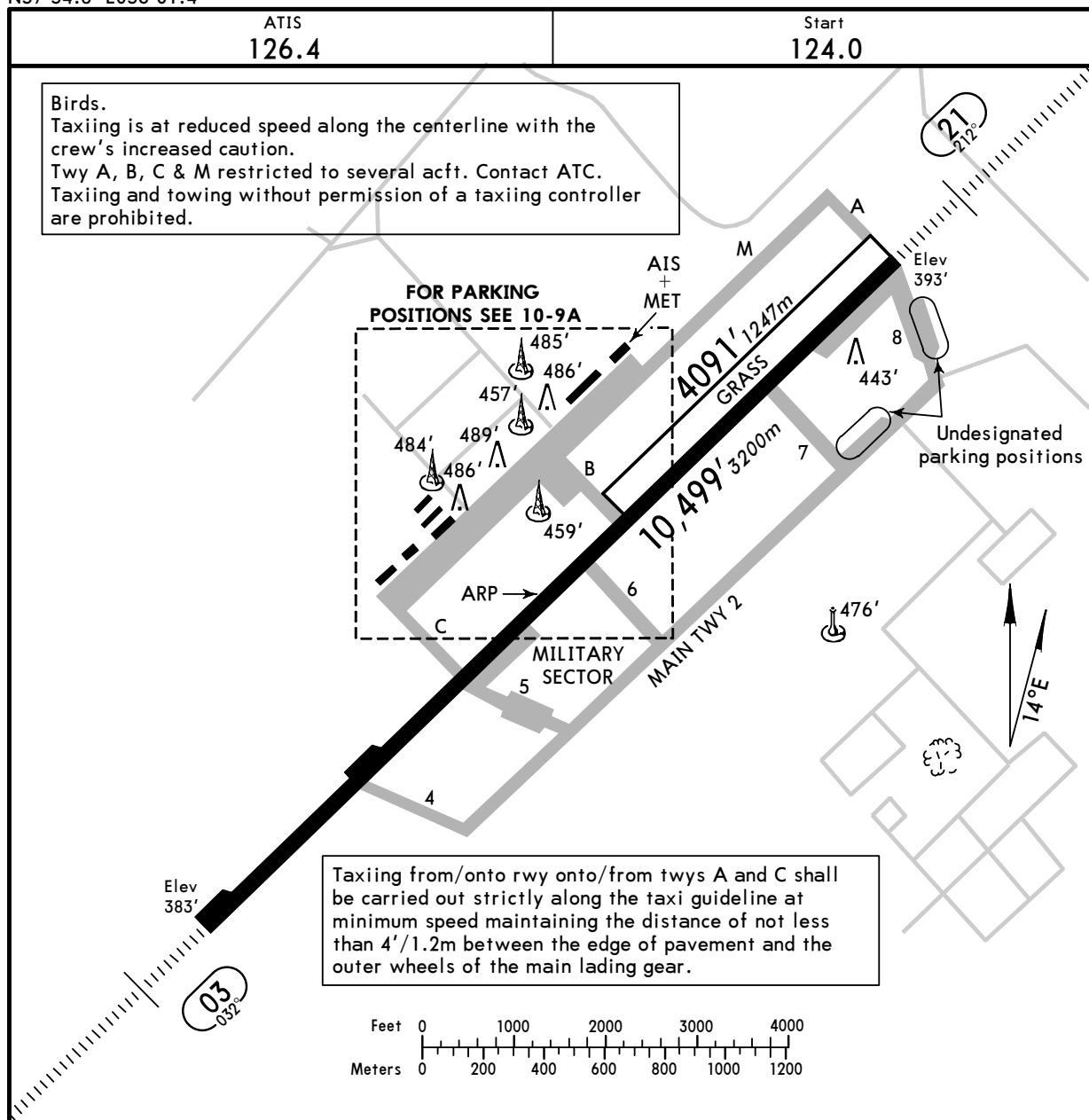
These procedures are not applied in cases when

- one of the engines failed during take-off phase,
- the runway is dirty and wet,
- visibility is less than 2000m,
- cross-wind component (including gusts) exceeds 8m/sec,
- a tailwind component (including gusts) exceeds 2m/sec,
- when wind shear is forecasted or reported or it is expected that thunderstorms may influence the conditions of take-off and climbing of aircraft.

USPP/PEE
Apt Elev **404'**
N57 54.8 E056 01.4

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BOLSHOYE SAVINO



ADDITIONAL RUNWAY INFORMATION

RWY				USABLE LENGTHS		TAKE-OFF	WIDTH
				Threshold	Landing Beyond Glide Slope		
03	HIRL (60m)	HIALS	PAPI-L (angle 3.00°)				161'
21	HIRL (60m)	HIALS	PAPI-L (angle 2.67°)		7300' 2225m		49m
03							328'
21	Grass runway						100m

TAKE-OFF

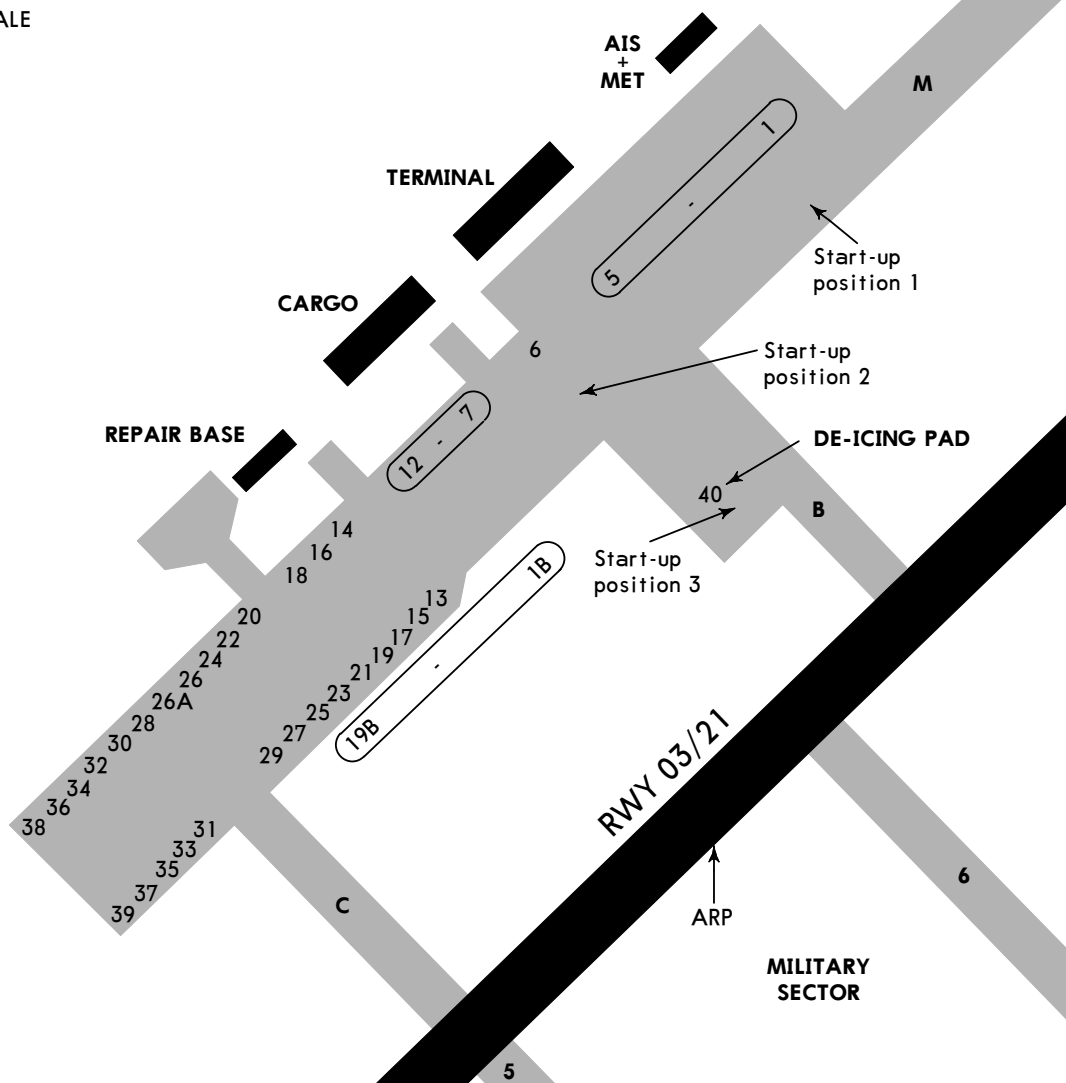
AIR CARRIER (JAA)		Main rwy 03/21	
LVP must be in force RCLM (DAY only) or RL		RCLM (DAY only) or RL	
A			
B	250m		400m
C			
D	300m		

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 BOLSHOYE SAVINO

NOT TO SCALE



INS COORDINATES

STAND No.	COORDINATES
1, 2	N57 55.2 E056 01.4
3	N57 55.1 E056 01.4
4, 5	N57 55.1 E056 01.3

Stands 19, 26A, 32 and 40 available for engines run-up.
 Stands 13 thru 30 and grass stands 1B thru 19B available for helicopters.

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1 FEB 08

10-9X

Eff 14 Feb

JAA MINIMUMS

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STRAIGHT-IN RWY		A	B	C	D
03	NDB	1010' (627')	1010' (627')	1010' (627')	1010' (627')
	with 7.5 NM RDP	R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	NDB	1600' (1217')	1600' (1217')	1600' (1217')	1600' (1217')
	w/o 7.5 NM RDP	R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
21	ILS	593' (200')	593' (200')	593' (200')	593' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	720' (327')	720' (327')	720' (327')	720' (327')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB	730' (337')	730' (337')	730' (337')	730' (337')
	with 6.4 NM RDP	R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB	1650' (1257')	1650' (1257')	1650' (1257')	1650' (1257')
	w/o 6.4 NM RDP	R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
	PX LOM	730' (337')	730' (337')	730' (337')	730' (337')
	with 6.4 NM RDP	R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	X LMM	960' (567')	960' (567')	960' (567')	960' (567')
	w/o 6.4 NM RDP	R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m

TAKE-OFF RWY 03, 21

LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

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1 FEB 08 **11-1** Eff 14 Feb

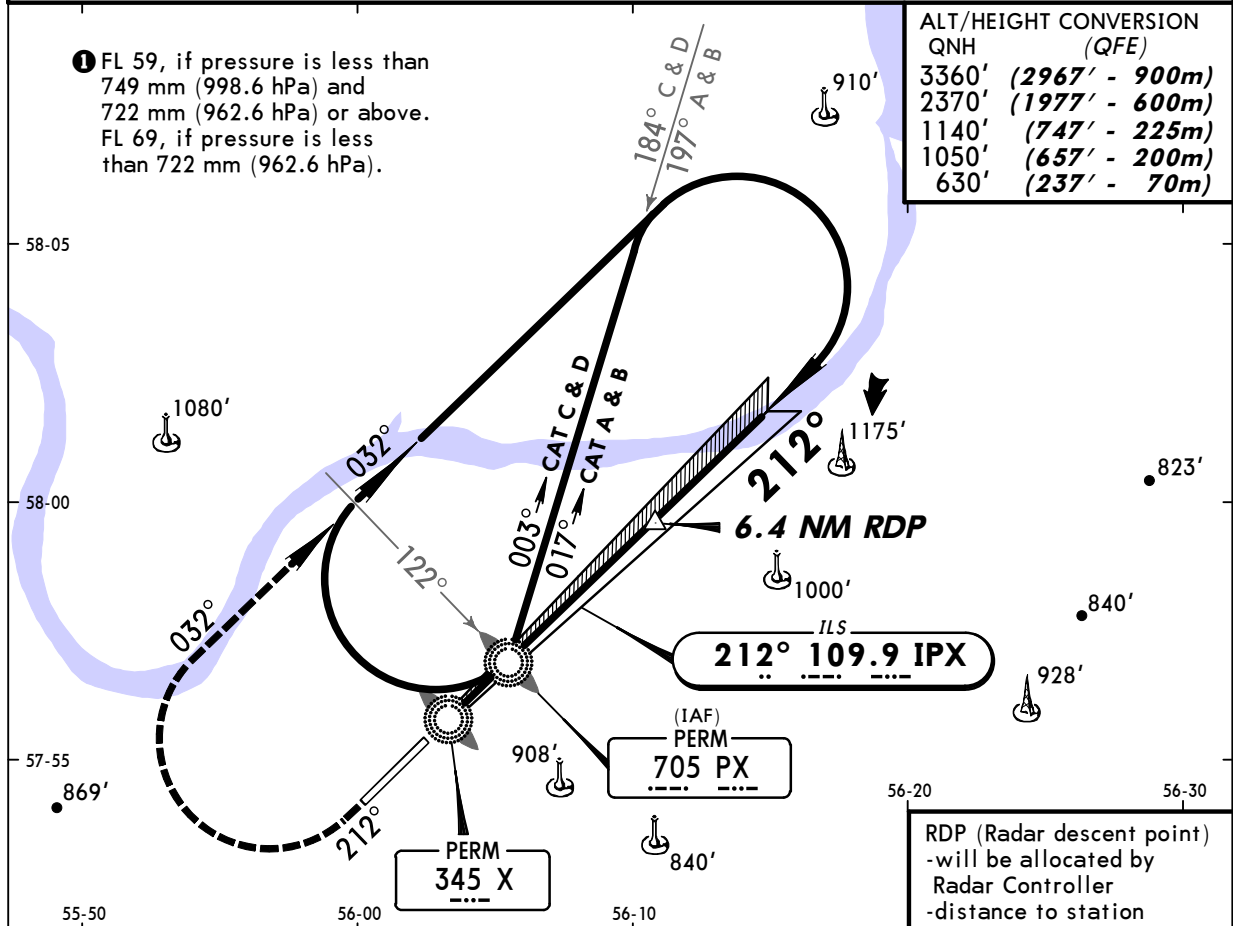
PERM, RUSSIA
ILS or LOC Rwy 21

BRIEFING STRIP

ATIS 126.4		PERM Approach (R) 127.1		PERM Start (TWR) 124.0		2700' 040° 3100' 300° MSA X Lctr
LOC IPX 109.9	Final Apch Crs 212°	GS LOM 1066' (673')	ILS DA(H) 593' (200')	Apt Elev 404' RWY 393'		
MISSED APCH: Climb on 212° to 1050' (657'), then turn RIGHT onto 032° climbing to 2370' (1977'), then according to chart.						
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49 ①		
Trans alt: 3360' (2967')						

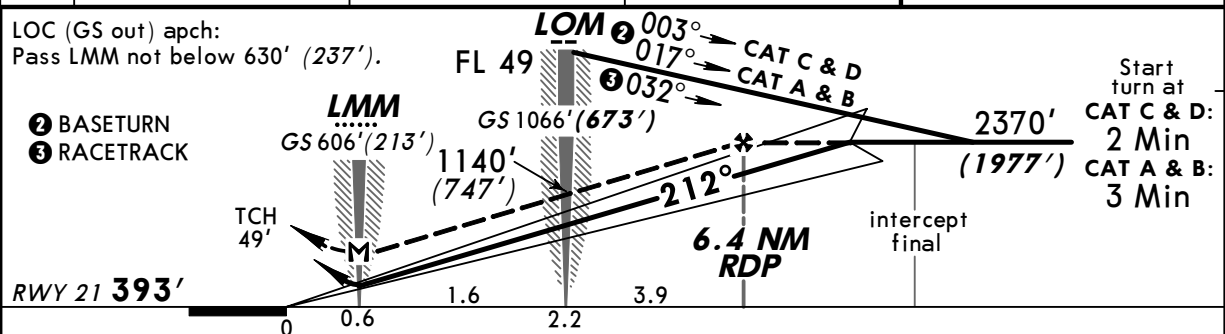
① FL 59, if pressure is less than 749 mm (998.6 hPa) and 722 mm (962.6 hPa) or above.
FL 69, if pressure is less than 722 mm (962.6 hPa).

ALT/HEIGHT CONVERSION	QNH	(QFE)
3360'	(2967' - 900m)	
2370'	(1977' - 600m)	
1140'	(747' - 225m)	
1050'	(657' - 200m)	
630'	(237' - 70m)	



LOC (GS out) apch:
Pass LMM not below 630' (237').

② BASETURN
③ RACETRACK



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1050' (657')	032°	2370' (1977')
ILS GS 2.67°	336	432	480	576	671	767	PAPI	↑	RT	↑
LOC Desc Gradient 5.2%	369	474	527	632	737	843				
MAP at LMM										

STRAIGHT-IN LANDING RWY 21						
ILS		LOC (GS out)				
DA(H) 593' (200')		MDA(H) 720' (327')				
FULL	ALS out	LMM out		ALS out		
A						
B		800m				
C	800m	1200m	NOT AUTH		1600m	
D		1200m				

PANS OPS

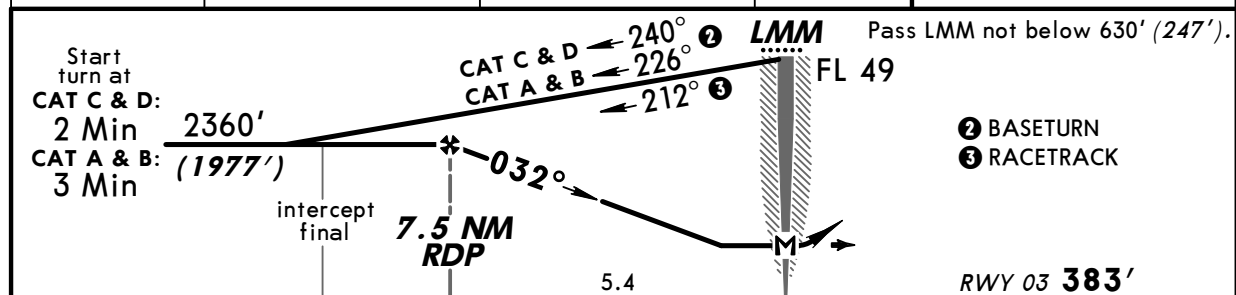
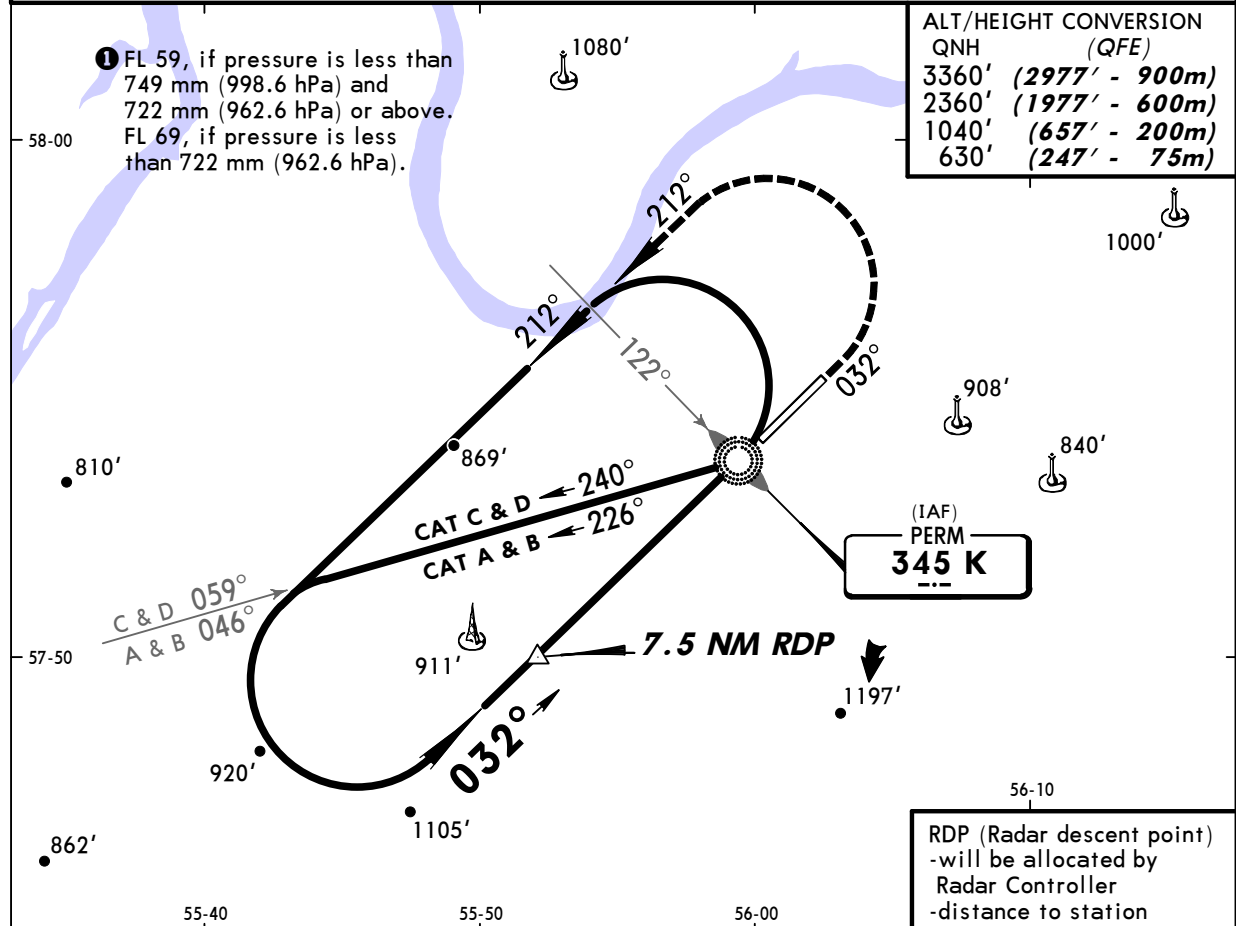
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BOLSHOYE SAVINO

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1 FEB 08 **16-1** Eff 14 Feb

PERM, RUSSIA
NDB Rwy 03

BRIEFING STRIP

ATIS 126.4		PERM Approach (R) 127.1		PERM Start (TWR) 124.0		2700' 040° 3100° 300° MSA K Lctr
Lctr K 345	Final Apch Crs 032°	Minimum Alt 7.5 RDP 2360' (1977')	MDA(H) (CONDITIONAL) 1010' (627')	Apt Elev 404' RWY 383'		
MISSED APCH: Climb on 032° to 1040' (657'), then turn LEFT onto 212° climbing to 2360' (1977'), then according to chart.						
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49 1	Trans alt: 3360' (2977')	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1040' (657') on 032°	212° LT	2360' (1977')
Descent Gradient 5.2%	369	474	527	632	737	843	PAP			
MAP at LMM										

STRAIGHT-IN LANDING RWY 03					
With 7.5 NM RDP		W/o 7.5 NM RDP			
MDA(H) 1010' (627')		MDA(H) 1600' (1217')			
	ALS out		ALS out		
A					
B	1200m	1600m	1200m	2000m	
C	2000m	2800m	1600m	2400m	
D	2800m	3200m	4000m	4800m	
			4400m		

PANS OPS

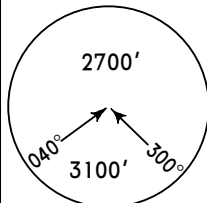
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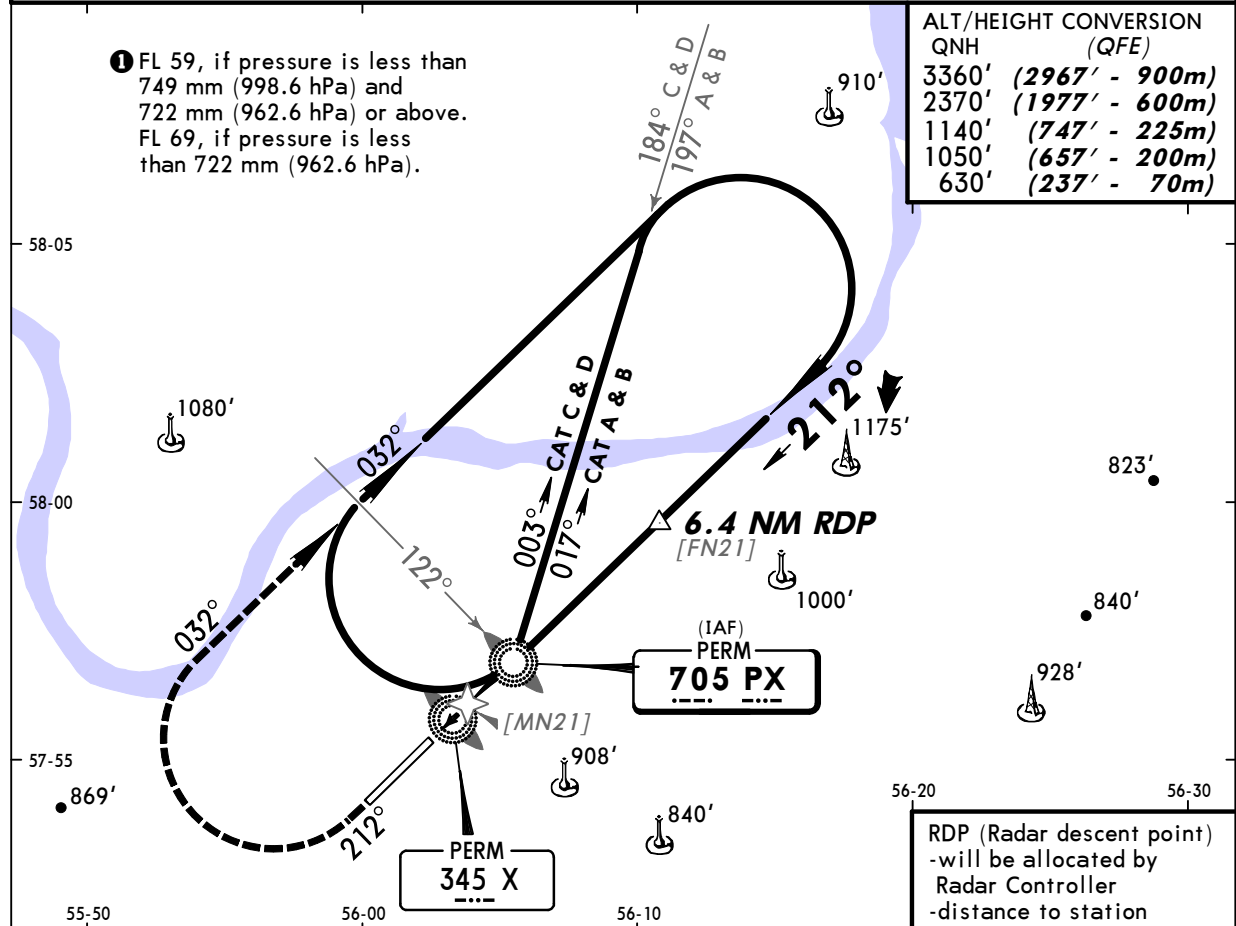
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Eff 14 Feb (16-2)

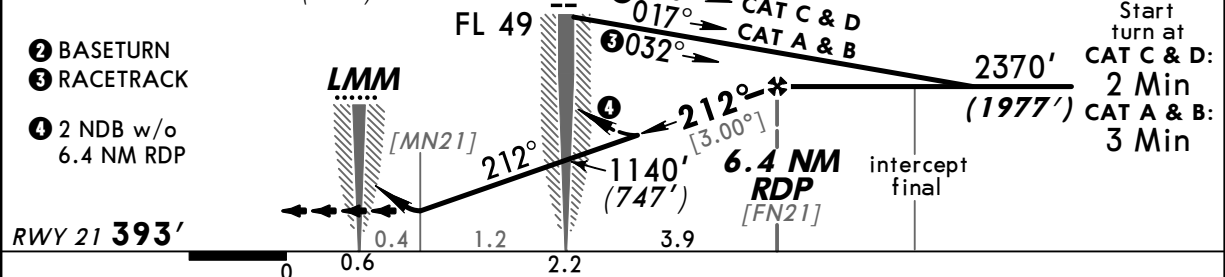
PERM, RUSSIA
2 NDB or NDB Rwy 21

BRIEFING STRIP

ATIS 126.4		PERM Approach (R) 127.1		PERM Start (TWR) 124.0		
NDB PX 705	Final Apch Crs 212°	Minimum Alt 6.4 NM RDP 2370' (1977')	MDA(H) Refer to Minimums	Apt Elev 404' RWY 393'		
MISSED APCH: Climb on 212° to 1050' (657'), then turn RIGHT onto 032° climbing to 2370' (1977'), then according to chart.						
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49 ① Trans alt: 3360' (2967')		



Pass LMM not below 630' (237').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1050' (657') on 212°	032° RT	2370' (1977')
Desc grad 5.24% or Descent angle [3.00°]	372	478	531	637	743	849	PAP			

STRAIGHT-IN LANDING RWY 21							
2 NDB		PX LOM		X LMM			
With 6.4 NM RDP		W/o 6.4 NM RDP		With 6.4 NM RDP		With 6.4 NM RDP	
MDA(H) 730' (337')		MDA(H) 1650' (1257')		MDA(H) 730' (337')		MDA(H) 960' (567')	
ALS out		ALS out		ALS out		ALS out	
A							
B	1200m	1600m	2400m	3200m	1200m	1600m	2200m
C			4000m	4800m			3000m
D	1600m	4400m			1600m	2600m	