

List of pages in this Trip Kit

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Airport Information For UMMG

Terminal Charts For UMMG

Revision Letter For Cycle 23-2013

Change Notices

Notebook

General Information

Location: Hrodna Blr
IATA Code: GNA
Lat/Long: N53° 36.1' E024° 03.2'
Elevation: 443 ft

Airport Use: Public
Magnetic Variation: 6.2°E

Fuel Types: Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0545 Z
Sunset: 1431 Z,

Runway Information

Runway: 08
Length x Width: 2185 ft x 92 ft
Surface Type: asphalt
TDZ-Elev: 443 ft

Runway: 17
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 443 ft
Lighting: Edge, ALS

Runway: 26
Length x Width: 2185 ft x 92 ft
Surface Type: asphalt
TDZ-Elev: 443 ft

Runway: 35
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 430 ft
Lighting: Edge, ALS

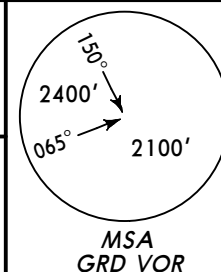
Communication Information

ATIS 135.025
ATIS 126.175 Non-English
Hrodna Tower 134.5

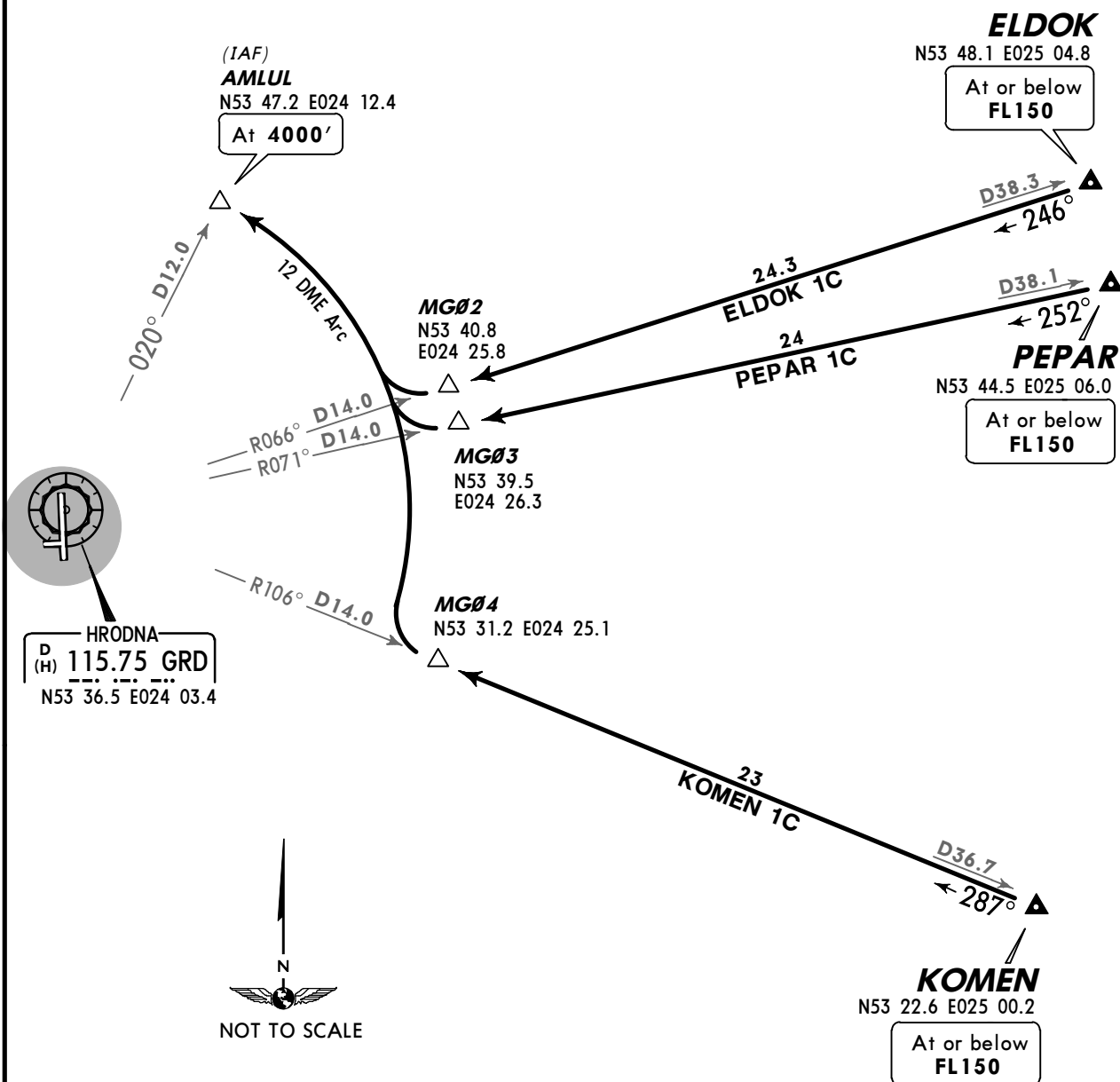
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ELDOK ONE CHARLIE (ELDOK 1C)
KOMEN ONE CHARLIE (KOMEN 1C)
PEPAR ONE CHARLIE (PEPAR 1C)
RWY 17 ARRIVALS
VOR DME REQUIRED

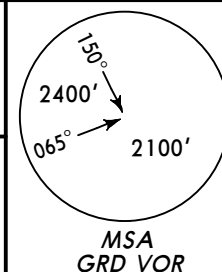


STAR	ROUTING
ELDOK 1C	Intercept GRD R-066 inbound to MG02, turn RIGHT, along GRD 12 DME arc to AMLUL.
KOMEN 1C	Intercept GRD R-106 inbound to MG04, turn RIGHT, along GRD 12 DME arc to AMLUL.
PEPAR 1C	Intercept GRD R-071 inbound to MG03, turn RIGHT, along GRD 12 DME arc to AMLUL.

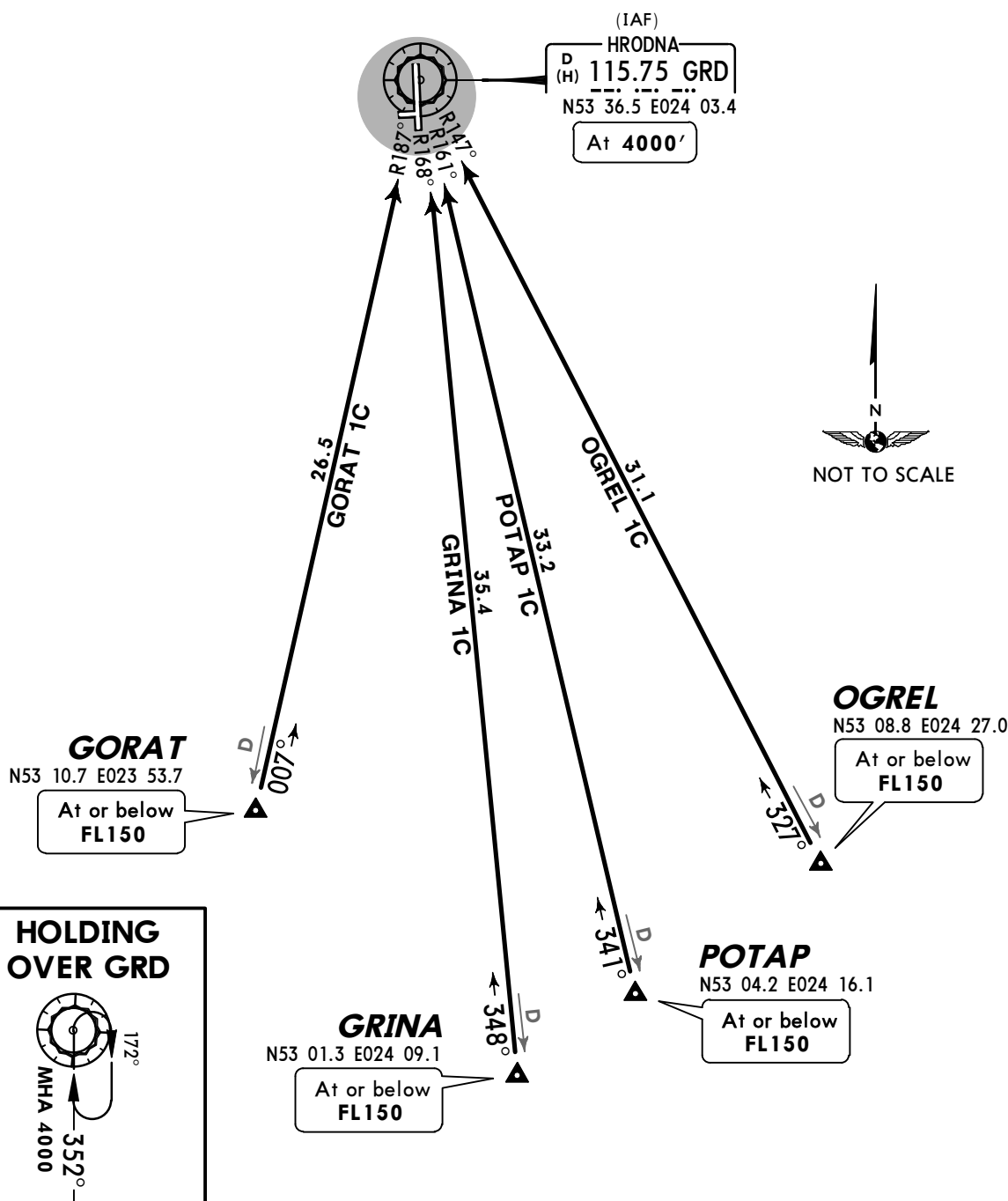
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



GORAT ONE CHARLIE (GORAT 1C)
GRINA ONE CHARLIE (GRINA 1C)
OGREL ONE CHARLIE (OGREL 1C)
POTAP ONE CHARLIE (POTAP 1C)
RWY 17 ARRIVALS
VOR DME REQUIRED



HOLDING
OVER GRD



GRINA
N53 01.3 E024 09.1
At or below
FL150

POTAP
N53 04.2 E024 16.1
At or below
FL150

OGREL
N53 08.8 E024 27.0
At or below
FL150

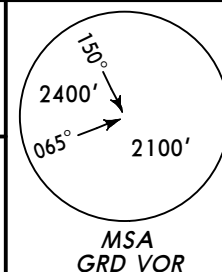
GORAT
N53 10.7 E023 53.7
At or below
FL150

STAR	ROUTING
GORAT 1C	Intercept GRD R-187 inbound to GRD.
GRINA 1C	Intercept GRD R-168 inbound to GRD.
OGREL 1C	Intercept GRD R-147 inbound to GRD.
POTAP 1C	Intercept GRD R-161 inbound to GRD.

*ATIS
135.02
(Russian 126.17)

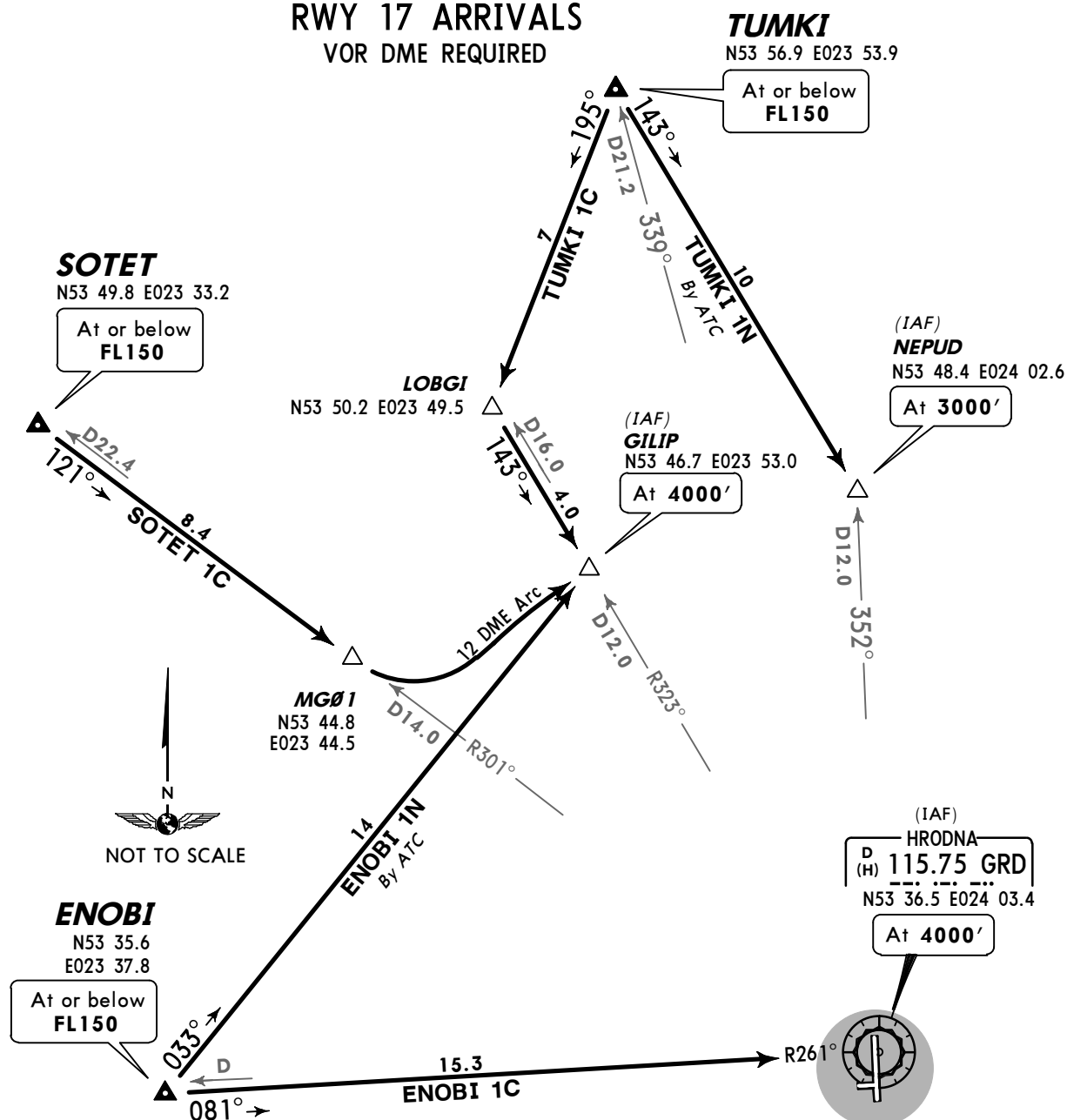
Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ENOBI ONE CHARLIE (ENOBI 1C)
SOTET ONE CHARLIE (SOTET 1C)
TUMKI ONE CHARLIE (TUMKI 1C)
ENOBI ONE NOVEMBER (ENOBI 1N)
TUMKI ONE NOVEMBER (TUMKI 1N)
BY ATC

RWY 17 ARRIVALS
VOR DME REQUIRED

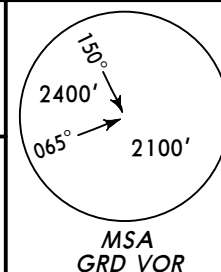


STAR	ROUTING
ENOBI 1C	Intercept GRD R-261 inbound to GRD.
ENOBI 1N By ATC	On 033° track to GILIP.
SOTET 1C	Intercept GRD R-301 inbound to MG01, turn LEFT, along GRD 12 DME arc to GILIP.
TUMKI 1C	On 195° track to LOBGI, turn LEFT, intercept GRD R-323 inbound to GILIP.
TUMKI 1N By ATC	On 143° track to NEPUD.

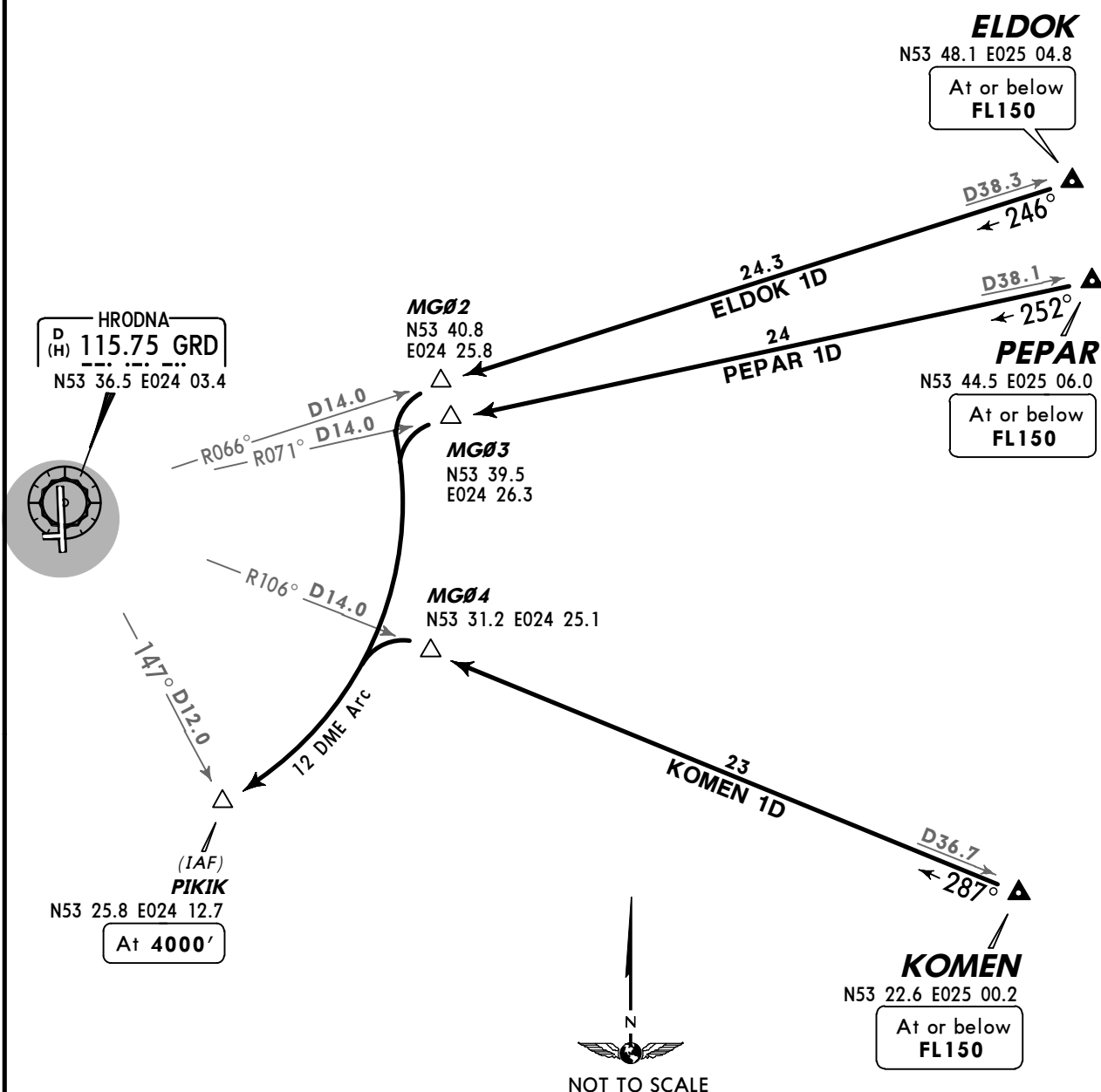
*ATIS
135.02
(Russian **126.17**)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ELDOK ONE DELTA (ELDOK 1D)
KOMEN ONE DELTA (KOMEN 1D)
PEPAR ONE DELTA (PEPAR 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED

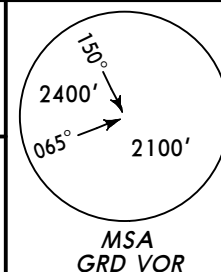


STAR	ROUTING
ELDOK 1D	Intercept GRD R-066 inbound to MG02, turn LEFT, along GRD 12 DME arc to PIKIK.
KOMEN 1D	Intercept GRD R-106 inbound to MG04, turn LEFT, along GRD 12 DME arc to PIKIK.
PEPAR 1D	Intercept GRD R-071 inbound to MG03, turn LEFT, along GRD 12 DME arc to PIKIK.

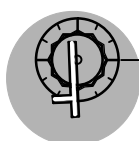
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

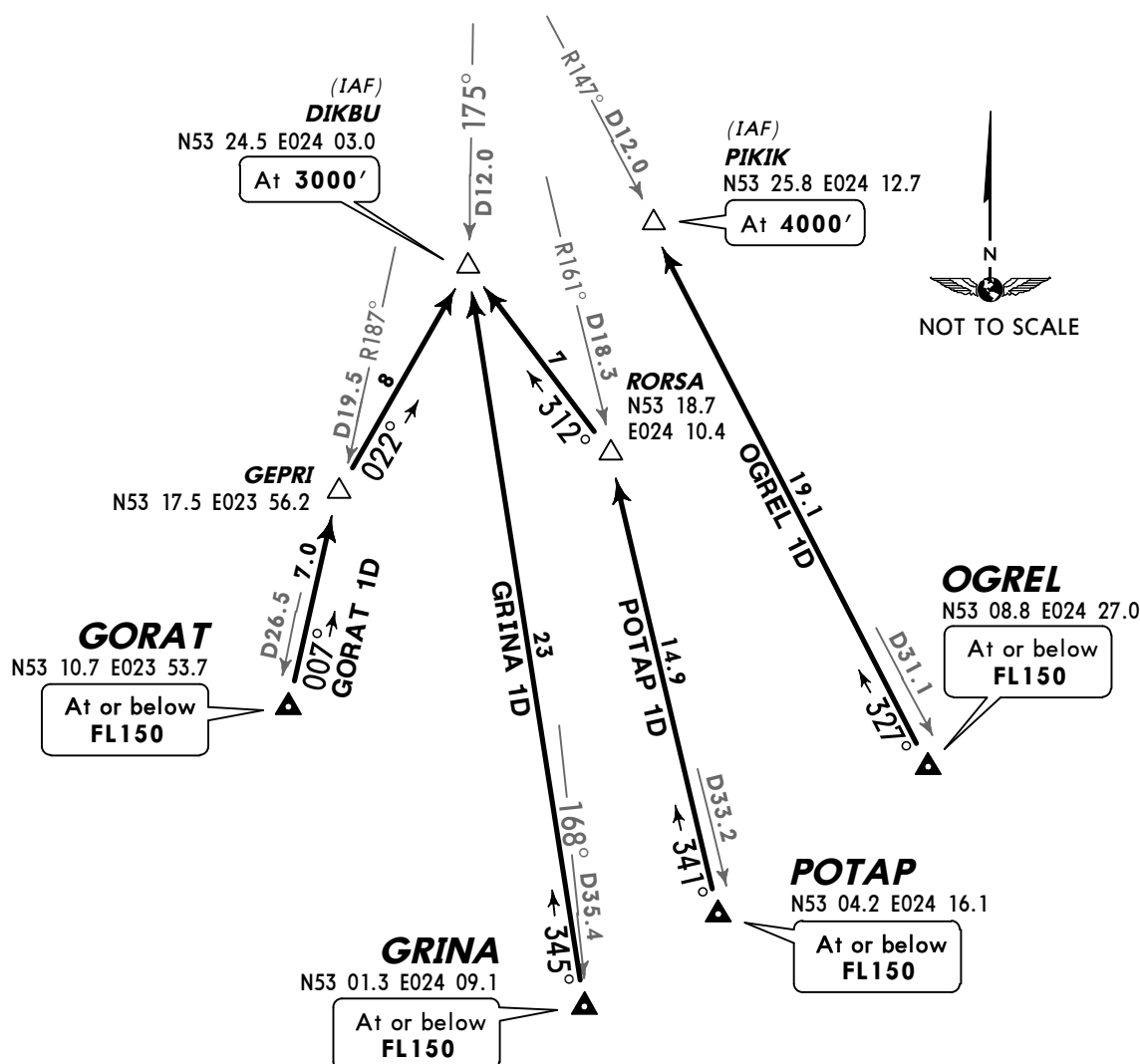
Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



GORAT ONE DELTA (GORAT 1D)
GRINA ONE DELTA (GRINA 1D)
OGREL ONE DELTA (OGREL 1D)
POTAP ONE DELTA (POTAP 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED



HRODNA
D(H) 115.75 GRD
N53 36.5 E024 03.4

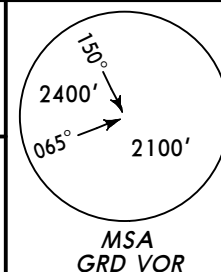


STAR	ROUTING
GORAT 1D	On 007° track to GEPR1, turn RIGHT, 022° track to DIKBU.
GRINA 1D	On 345° track to DIKBU.
OGREL 1D	Intercept GRD R-147 inbound to PIKIK.
POTAP 1D	Intercept GRD R-161 inbound to RORSA, turn LEFT, 312° track to DIKBU.

*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ENOBI ONE DELTA (ENOBI 1D)
SOTET ONE DELTA (SOTET 1D)
TUMKI ONE DELTA (TUMKI 1D)
TUMKI ONE MIKE (TUMKI 1M)
BY ATC

RWY 35 ARRIVALS
VOR DME REQUIRED

TUMKI
N53 56.9 E023 53.9

At or below
FL150

SOTET
N53 49.8 E023 33.2

At or below
FL150

LOBGI
N53 50.2 E023 49.5



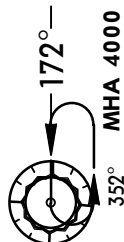
NOT TO SCALE

ENOBI
N53 35.6 E023 37.8

At or below
FL150

(IAF)
HRODNA
D (H) **115.75 GRD**
N53 36.5 E024 03.4
At **4000'**

**HOLDING
OVER GRD**

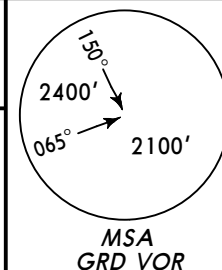


(IAF)
LENLO
N53 26.0
E023 53.4
At **4000'**

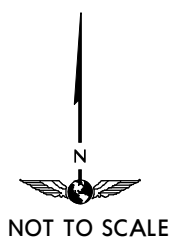
STAR	ROUTING
ENOBI 1D	On 130° track to LENLO.
SOTET 1D	Intercept GRD R-301 inbound to GRD.
TUMKI 1D	On 195° track to LOBGI, turn LEFT, intercept GRD R-323 inbound to GRD.
TUMKI 1M By ATC	Intercept GRD R-339 inbound to GRD.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



ELDOK ONE ALFA (ELDOK 1A)
KOMEN ONE ALFA (KOMEN 1A)
PEPAR ONE ALFA (PEPAR 1A)
RWY 17 DEPARTURES
VOR DME REQUIRED



HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4



At or above
1100'

036°
041°
076°

066°
071°

106°

KOMEN 1A

ELDOK 1A
PEPAR 1A

ELDOK
N53 48.1 E025 04.8
At or below
FL150

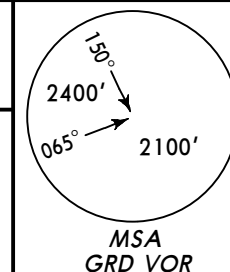
PEPAR
N53 44.5 E025 06.0
At or below
FL150

KOMEN
N53 22.6 E025 00.2
At or below
FL150

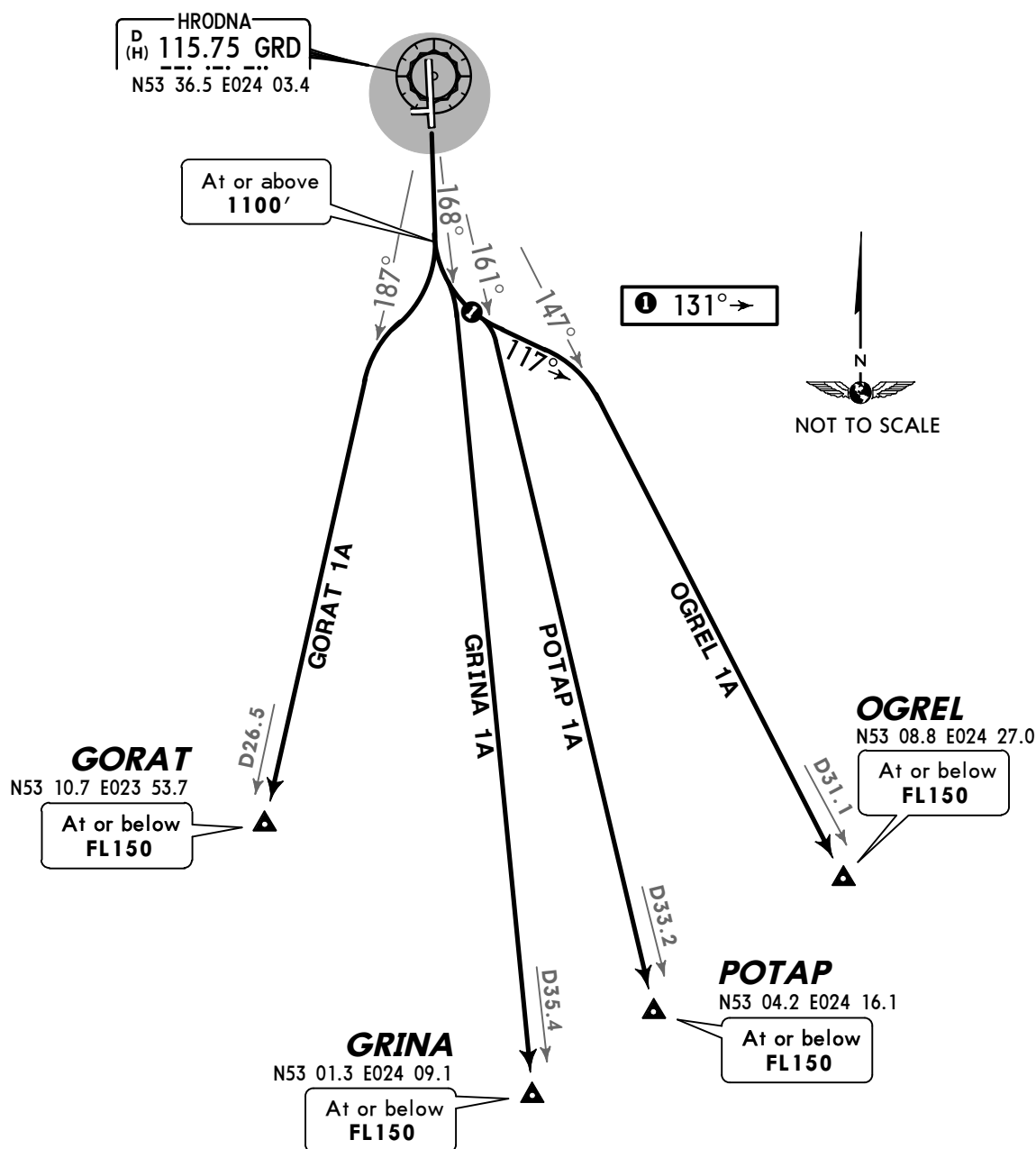
SID	ROUTING
ELDOK 1A	Climb straight ahead to at or above 1100', turn LEFT, 036° track, intercept GRD R-066 to ELDOK.
KOMEN 1A	Climb straight ahead to at or above 1100', turn LEFT, 076° track, intercept GRD R-106 to KOMEN.
PEPAR 1A	Climb straight ahead to at or above 1100', turn LEFT, 041° track, intercept GRD R-071 to PEPAR.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



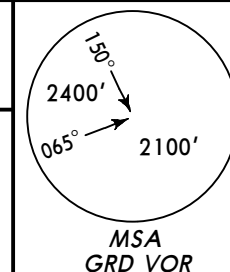
GORAT ONE ALFA (GORAT 1A)
GRINA ONE ALFA (GRINA 1A)
OGREL ONE ALFA (OGREL 1A)
POTAP ONE ALFA (POTAP 1A)
RWY 17 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1A	Climb straight ahead to at or above 1100' , turn RIGHT, intercept GRD R-187 to GORAT.
GRINA 1A	Climb straight ahead to at or above 1100' , turn LEFT, intercept GRD R-168 to GRINA.
OGREL 1A	Climb straight ahead to at or above 1100' , turn LEFT, 117° track, intercept GRD R-147 to OGREL.
POTAP 1A	Climb straight ahead to at or above 1100' , turn LEFT, 131° track, intercept GRD R-161 to POTAP.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



SOTET ONE ALFA (SOTET 1A)
TUMKI ONE ALFA (TUMKI 1A)
TUMKI ONE KILO (TUMKI 1K)
BY ATC

RWY 17 DEPARTURES
VOR DME REQUIRED

TUMKI
N53 56.9 E023 53.9
At or below
FL150

SOTET
N53 49.8 E023 33.2
At or below
FL150

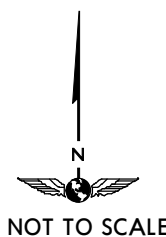
LOBGI
N53 50.2 E023 49.5

TUMKI 1K
By ATC

TUMKI 1A

SOTET 1A

HRODNA
P (H) 115.75 GRD
N53 36.5 E024 03.4

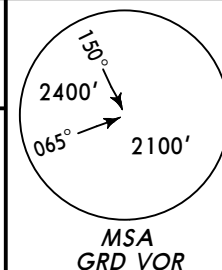


At or above
1100'

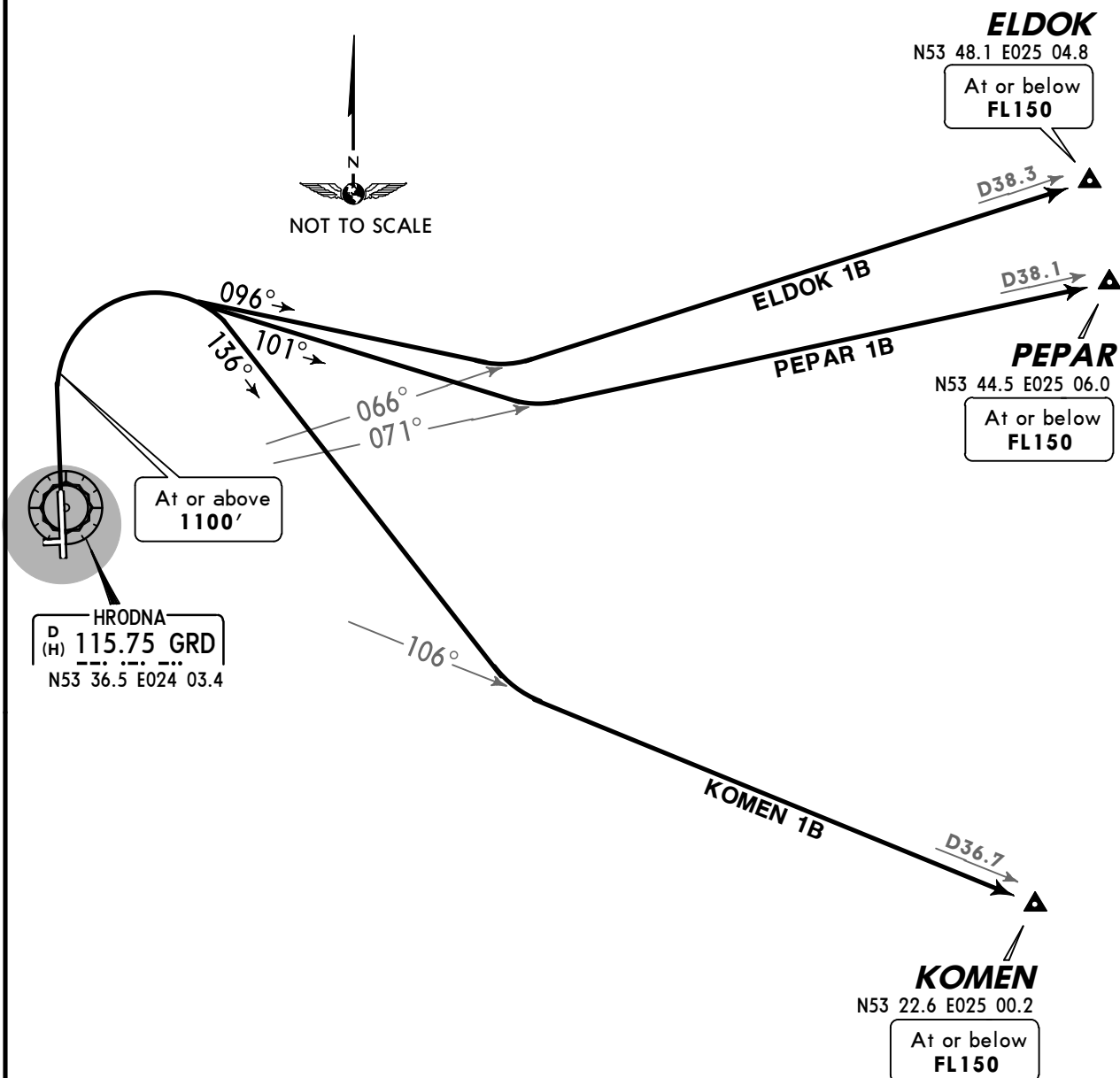
SID	ROUTING
SOTET 1A	Climb straight ahead to at or above 1100' , turn RIGHT, 331° track, intercept GRD R-301 to SOTET.
TUMKI 1A	Climb straight ahead to at or above 1100' , turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1K By ATC	Climb straight ahead to at or above 1100' , turn LEFT, 309° track, intercept GRD R-339 to TUMKI.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



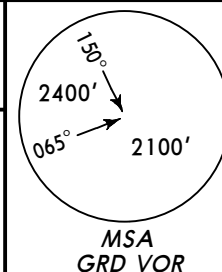
ELDOK ONE BRAVO (ELDOK 1B)
KOMEN ONE BRAVO (KOMEN 1B)
PEPAR ONE BRAVO (PEPAR 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED



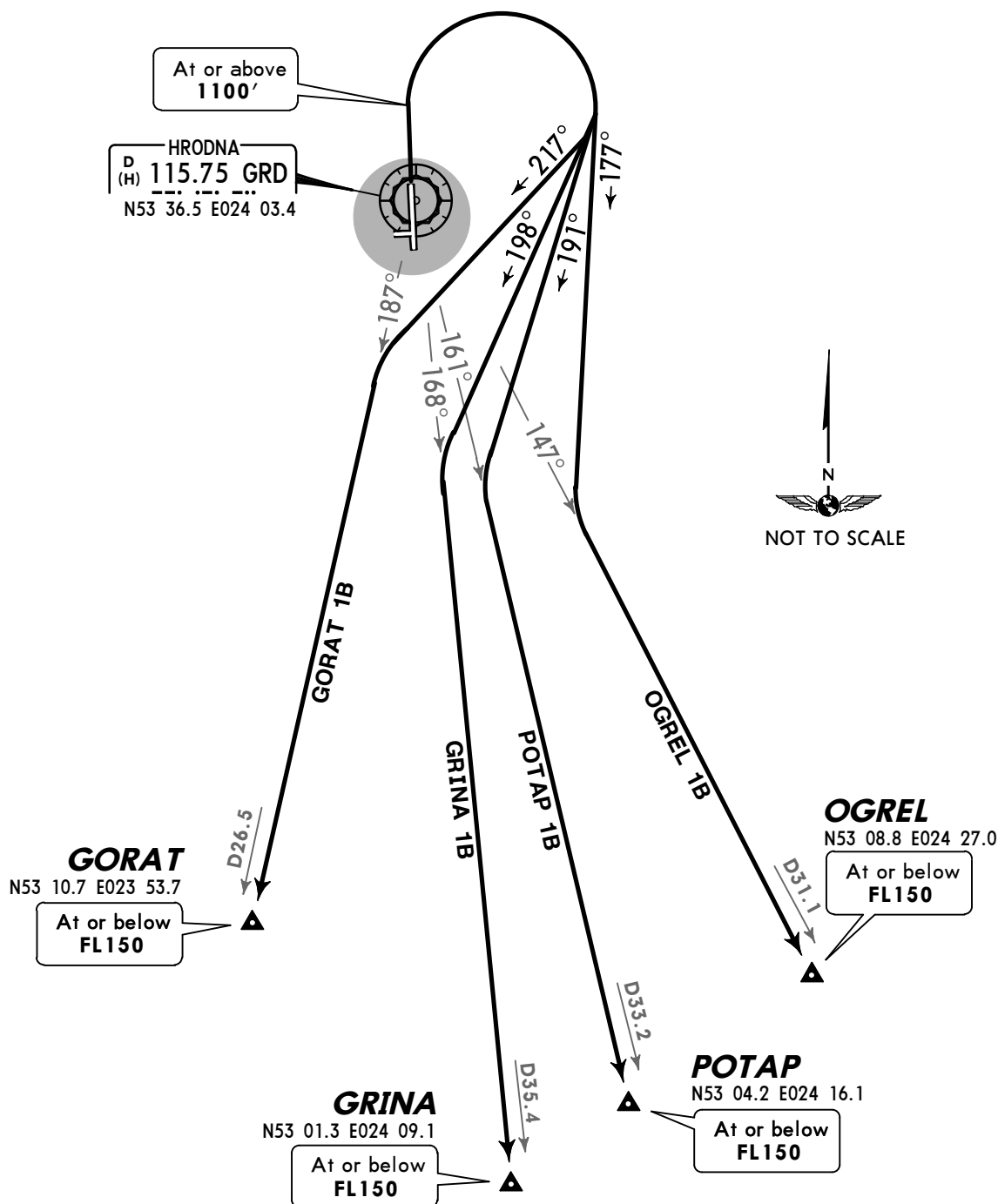
SID	ROUTING
ELDOK 1B	Climb straight ahead to at or above 1100', turn RIGHT, 096° track, intercept GRD R-066 to ELDOK.
KOMEN 1B	Climb straight ahead to at or above 1100', turn RIGHT, 136° track, intercept GRD R-106 to KOMEN.
PEPAR 1B	Climb straight ahead to at or above 1100', turn RIGHT, 101° track, intercept GRD R-071 to PEPAR.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



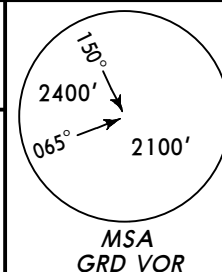
GORAT ONE BRAVO (GORAT 1B)
GRINA ONE BRAVO (GRINA 1B)
OGREL ONE BRAVO (OGREL 1B)
POTAP ONE BRAVO (POTAP 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 217° track, intercept GRD R-187 to GORAT.
GRINA 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 198° track, intercept GRD R-168 to GRINA.
OGREL 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 177° track, intercept GRD R-147 to OGREL.
POTAP 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 191° track, intercept GRD R-161 to POTAP.

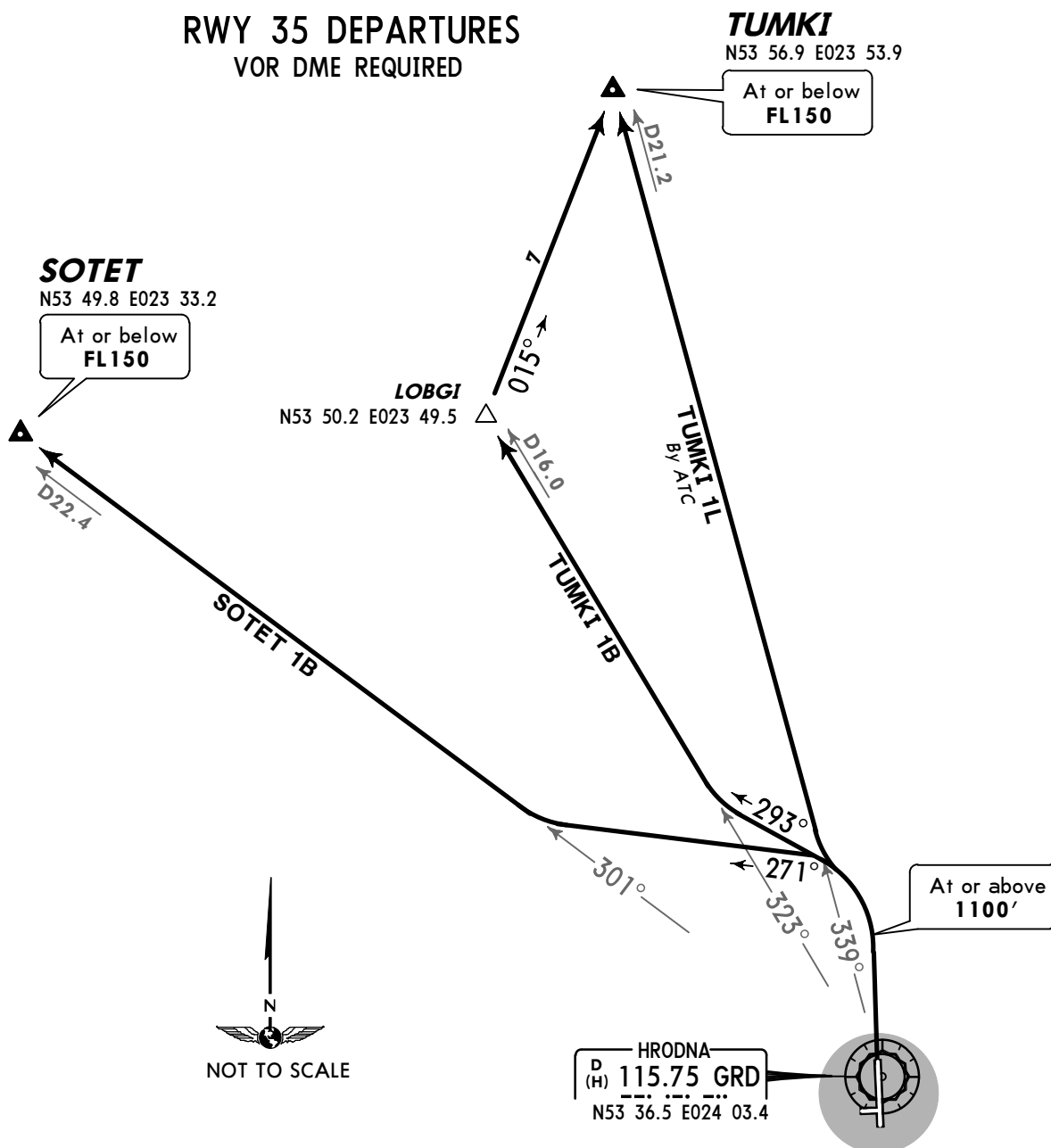
Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.

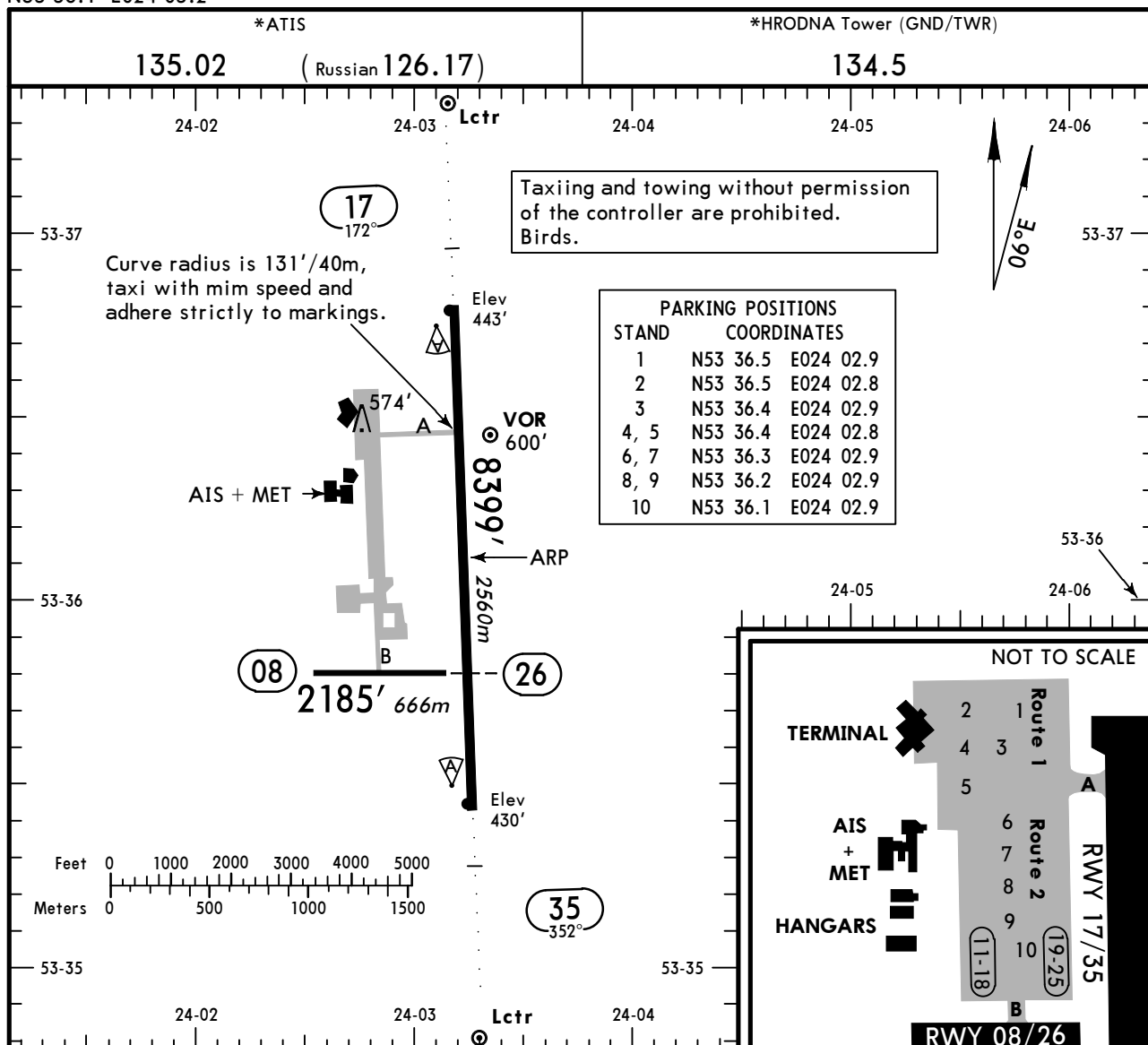


SOTET ONE BRAVO (SOTET 1B)
TUMKI ONE BRAVO (TUMKI 1B)
TUMKI ONE LIMA (TUMKI 1L)
BY ATC

RWY 35 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
SOTET 1B	Climb straight ahead to at or above 1100', turn LEFT, 271° track, intercept GRD R-301 to SOTET.
TUMKI 1B	Climb straight ahead to at or above 1100', turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1L By ATC	Climb straight ahead to at or above 1100', turn LEFT, intercept GRD R-339 to TUMKI.



ADDITIONAL RUNWAY INFORMATION

ADDITIONAL RUNWAY INFORMATION					USABLE LENGTHS		TAKE-OFF	WIDTH
RWY					LANDING BEYOND			
					Threshold	Glide Slope		
08								92'
26								28m
17	RL (60m)	ALS	PAPI-L (angle 2.67°)	RVR		7245' 2208m		138'
35					8235' 2510m		8235' 2510m	42m

TAKE-OFF

AIR CARRIER (JAA)
All Rwy's

LVP must be in force
RCLM (DAY only)
or RL

RCLM (DAY only)
or RL

A		
B	250m	400m
C		
D	300m	

STRAIGHT-IN RWY		A	B	C	D
17	ILS	643' (200')	643' (200')	643' (200')	643' (200')
	<i>ALS out</i>	R1000m R1200m	R1000m R1200m	R1000m R1200m	R1000m R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶ with DME <i>ALS out</i>	820' (377') R1500m R1500m	820' (377') R1500m R1500m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
	VOR w/o DME <i>ALS out</i>	820' (377') R1700m R1900m	820' (377') R1700m R1900m	820' (377') R1900m C2100m	820' (377') R1900m C2100m
	NDB ❶ with DME <i>ALS out</i>	820' (377') R1500m R1500m	820' (377') R1500m R1500m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
	NDB ❶ w/o DME <i>ALS out</i>	820' (377') R1500m R1700m	820' (377') R1500m R1700m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
35	VOR ❶ with DME <i>ALS out</i>	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m
	VOR w/o DME <i>ALS out</i>	760' (330') R1500m R1700m	760' (330') R1500m R1700m	760' (330') R1700m R1900m	760' (330') R1700m R1900m
	NDB ❶ with DME <i>ALS out</i>	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m
	NDB ❶ w/o DME <i>ALS out</i>	780' (350') R1400m R1600m	780' (350') R1400m R1600m	780' (350') R1400m R1600m	780' (350') R1400m R1600m

❶ Continuous Descent Final Approach.

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	900' (457') 1500m ❸	950' (507') 1600m ❸	1140' (697') ❷ 2400m	1150' (707') 3600m

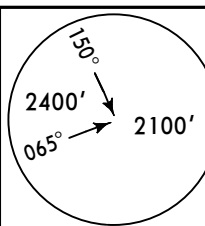
❷ after ILS 17: 1050' (607').

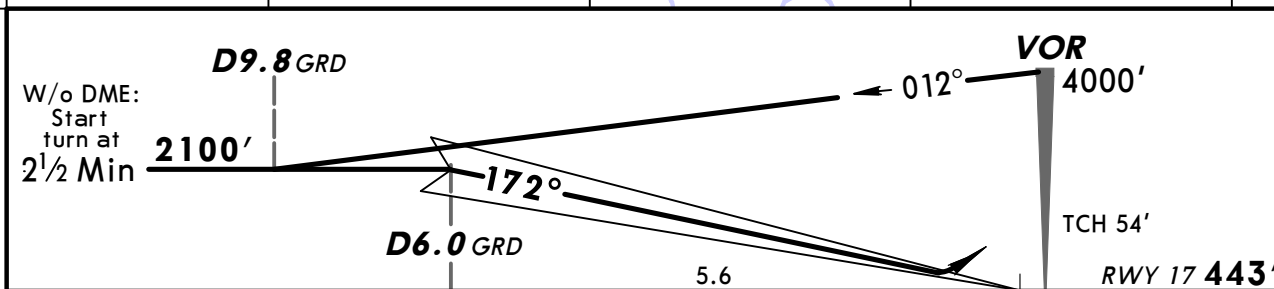
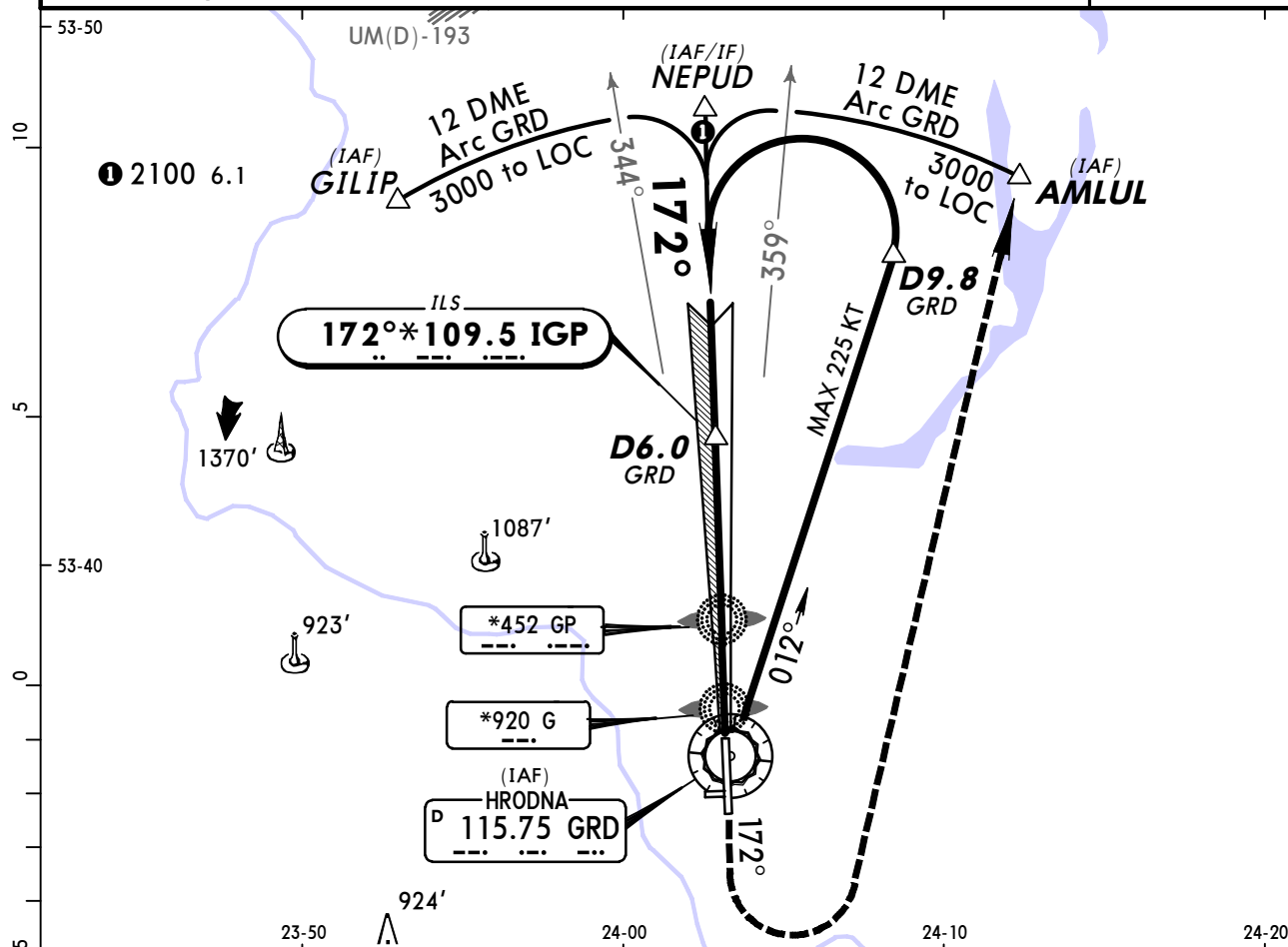
❸ or higher minimums of preceding straight-in approach.

TAKE-OFF RWY 08, 17, 26, 35

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		

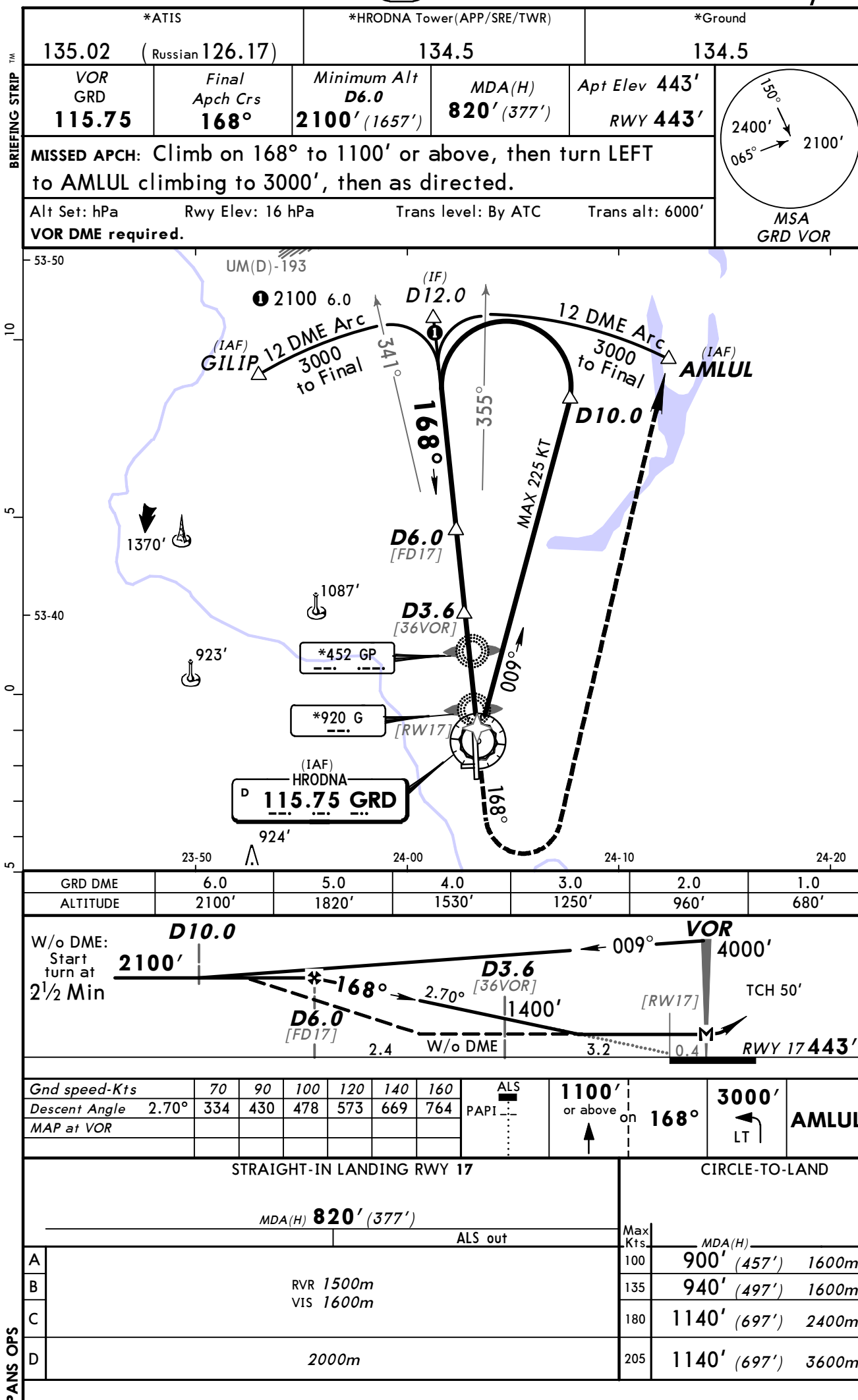
BRIEFING STRIP

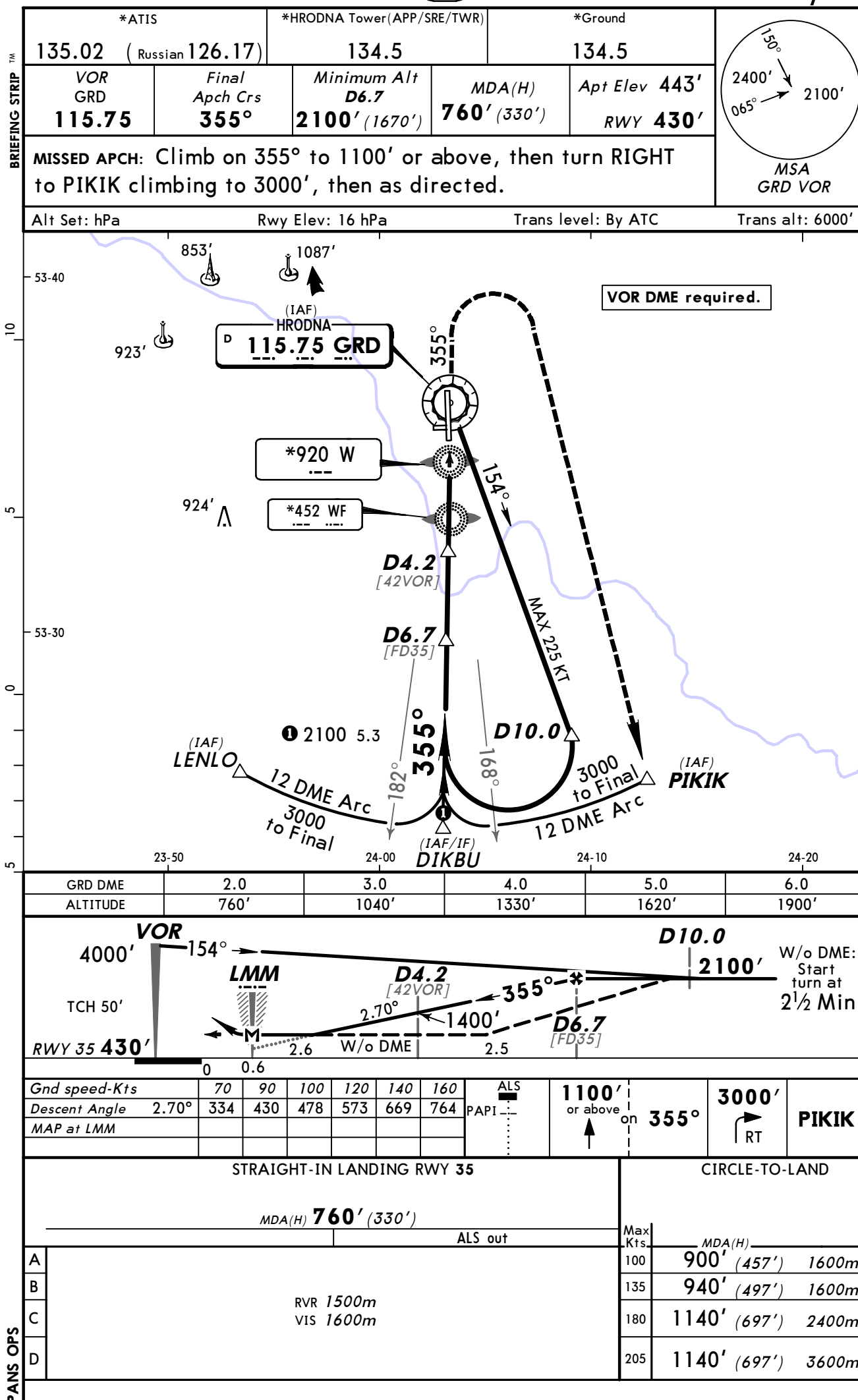
*ATIS		*HRODNA Tower(APP/SRE/TWR)		*Ground	
135.02 (Russian 126.17)		134.5		134.5	
LOC IGP *109.5	Final Apch Crs 172°	GS D6.0 GRD 2100' (1657')	ILS DA(H) 643' (200')	Apt Elev 443' RWY 443'	 MSA GRD VOR
MISSED APCH: Climb on 172° to 1100' or above, then turn LEFT to AMLUL climbing to 3000', then as directed.					
Alt Set: hPa		Rwy Elev: 16 hPa		Trans level: By ATC	
VOR DME required.					

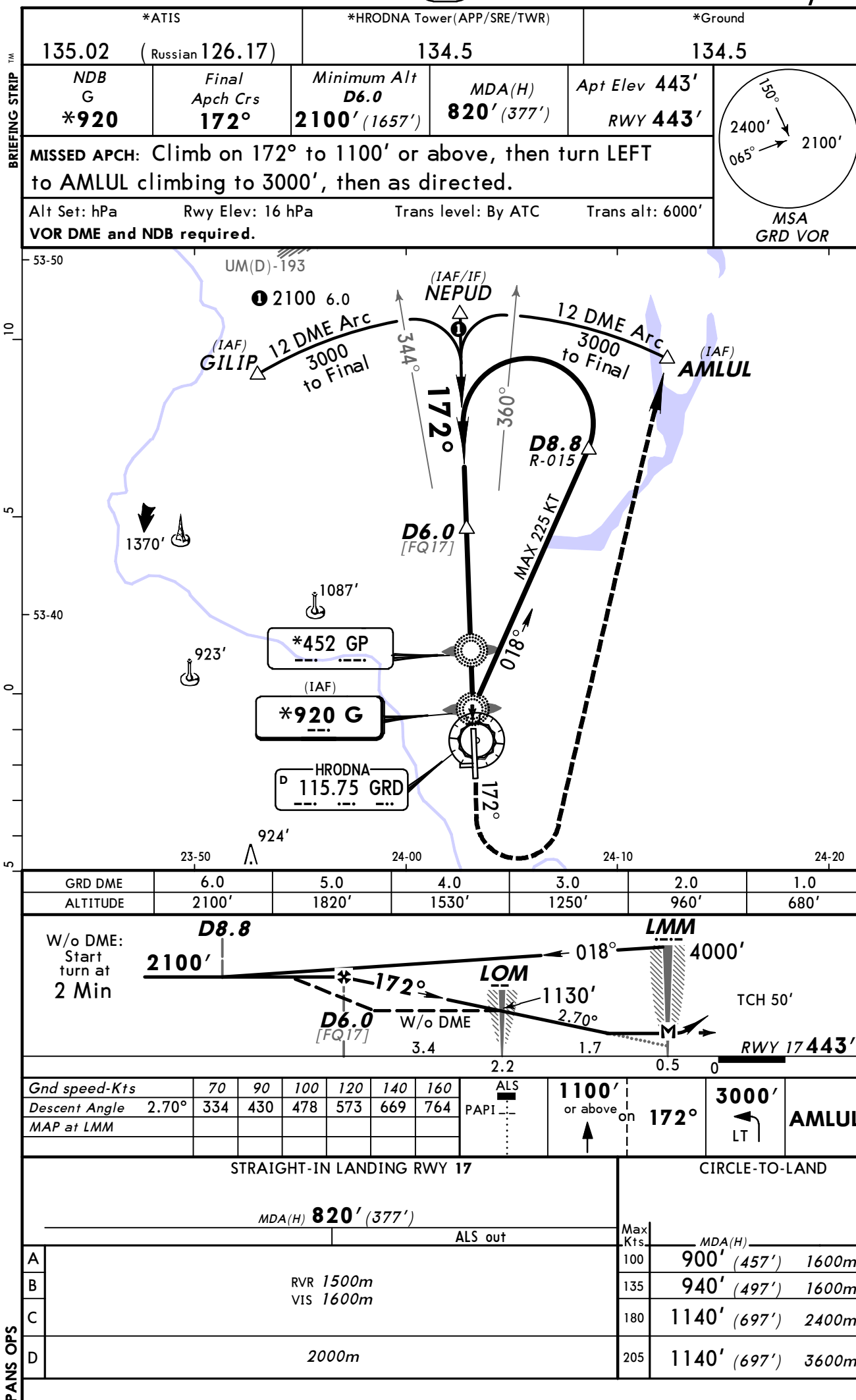


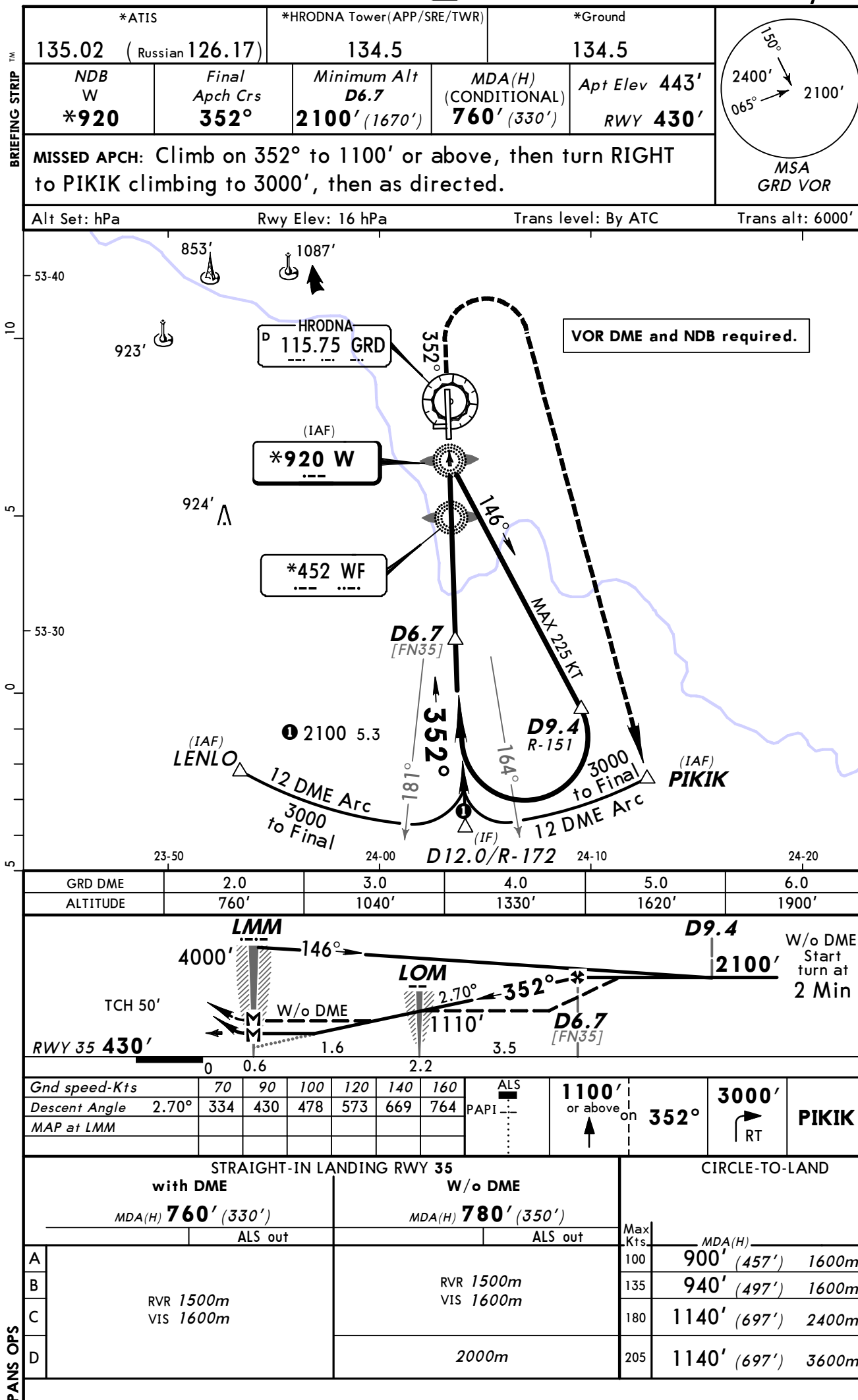
W/o DME: Start turn at 2 1/2 Min	D9.8 GRD	2100'	172°	D6.0 GRD	5.6	VOR 4000'	012°	TCH 54'	RWY 17 4433'
Grnd speed-Kts	70	90	100	120	140	160			
Descent Angle	2.70°	334	430	478	573	669	764		

STRAIGHT-IN LANDING RWY 17				CIRCLE-TO-LAND			
ILS		LOC (GS out)					
DA(H) 643' (200')							
FULL		ALS out		Max Kts	MDA(H)		
A	1200m			100	900' (457') 1600m		
B				135	940' (497') 1600m		
C				180	1040' (597') 2400m		
D				205	1140' (697') 3600m		
				NOT APPLICABLE			









HRODNA, (HRODNA - UMMG)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UMMG