

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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No revision activity since Disc 11-2011

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport UKOO

General Info

Odesa, UKR

N 46° 25.6' E 30° 40.7' Mag Var: 4.7°E

Elevation: 172'

Public, IFR, Control Tower, Customs

Fuel: 115-145, Jet A-1

Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+2:00 uses DST

Runway Info

Runway 16-34 9186' x 184' asphalt

Runway 16 (160.0°M) TDZE 172'

Lights: Edge, ALS

Runway 34 (340.0°M) TDZE 165'

Lights: Edge, ALS

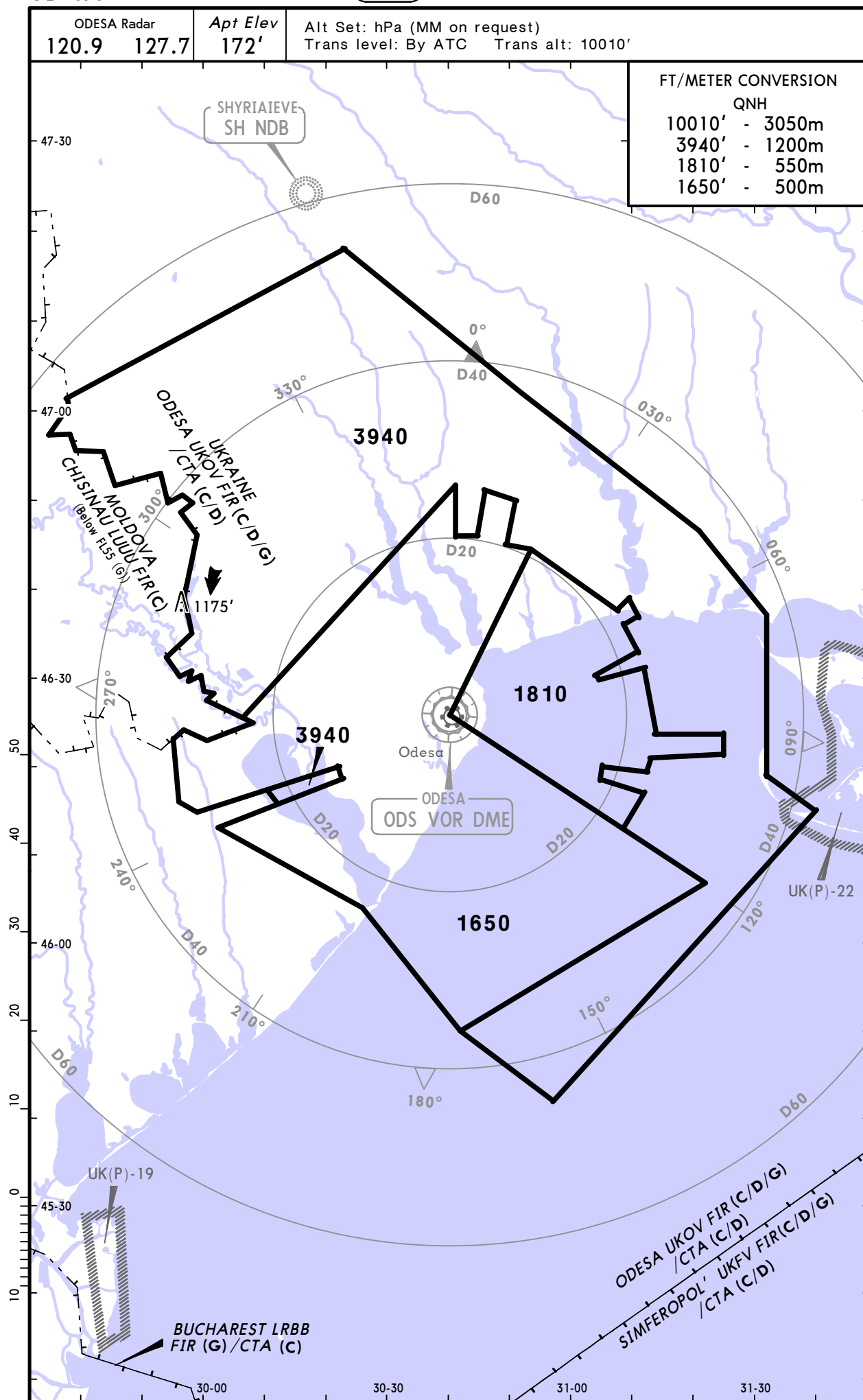
Communications InfoATIS **124.8**Odesa Tower **125.5**Odesa Ground Control **121.8**Odesa Radar Approach Control **127.7**Odesa Radar Approach Control **120.9****Notebook Info**

UK00/ODS
ODESA

JEPPESEN
26 OCT 07 **(10-1R)**

ODESA, UKRAINE

RADAR MINIMUM ALTITUDES

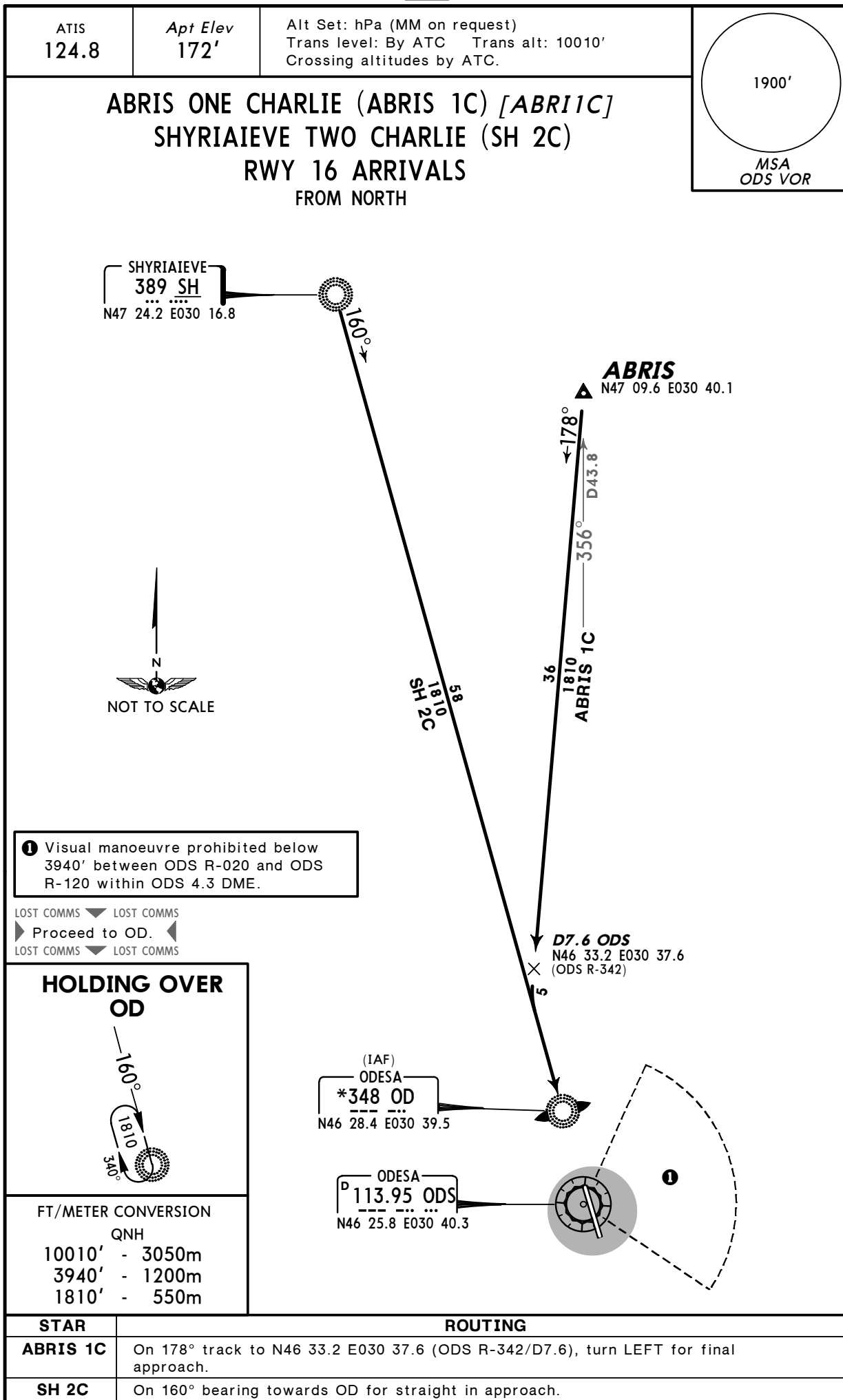


CHANGES: Altitude conversion.

UK00/ODS
ODESA

JEPPESEN
 26 OCT 07 **10-2**

ODESA, UKRAINE
STAR



UK00/ODS
ODESA

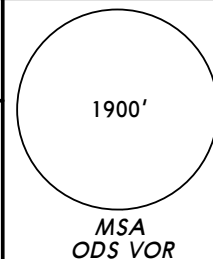
JEPPESEN
 26 OCT 07 **(10-2A)**

ODESA, UKRAINE
STAR

ATIS
 124.8

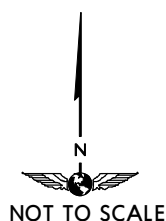
Apt Elev
 172'

Alt Set: hPa (MM on request)
 Trans level: By ATC Trans alt: 10010'
 Crossing altitudes by ATC.



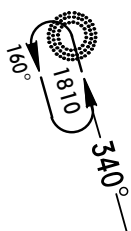
ABRIS ONE DELTA (ABRIS 1D) [ABR11D)
SHYRIAIEVE TWO DELTA (SH 2D)
RWY 34 ARRIVALS
FROM NORTH

SHYRIAIEVE
 389 SH
 N47 24.2 E030 16.8



① Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.

HOLDING OVER OE



FT/METER CONVERSION	
QNH	
10010'	- 3050m
3940'	- 1200m
1810'	- 550m

ODESA
 113.95 ODS
 N46 25.8 E030 40.3

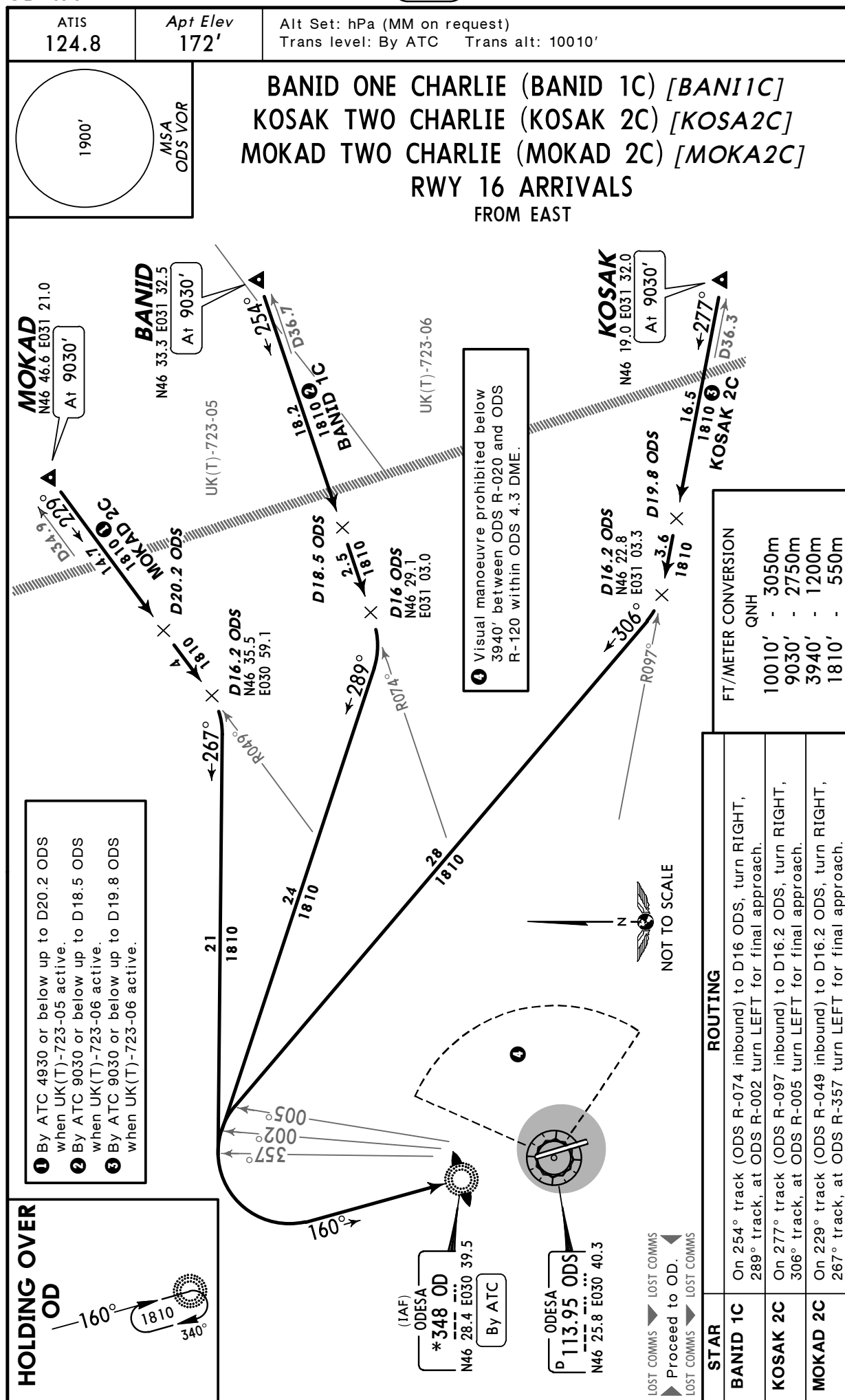
(IAF)
 ODESA
 *348 OE
 N46 22.8 E030 41.9

STAR	ROUTING
ABRIS 1D	On 175° track (ODS R-356 inbound) to ODS, turn LEFT, ODS R-156 to OE.
SH 2D	On 160° bearing (ODS R-340 inbound) to ODS, turn LEFT, ODS R-156 to OE.

UK00/ODS
ODESA

JEPPesen
26 OCT 07 **(10-2B)**

ODESA, UKRAINE
STAR



UK00/ODS
ODESA

JEPPESSEN

26 OCT 07 **(10-2C)**

ODESA, UKRAINE

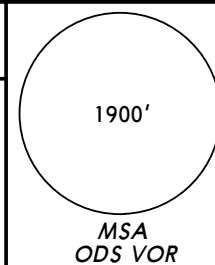
STAR

ATIS
124.8

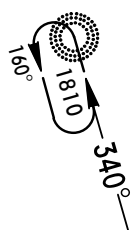
Apt Elev
172'

Alt Set: hPa (MM on request)
Trans level: By ATC Trans alt: 10010'

BANID ONE DELTA (BANID 1D) [BANI1D]
KOSAK TWO DELTA (KOSAK 2D) [KOSA2D]
MOKAD TWO DELTA (MOKAD 2D) [MOKA2D]
RWY 34 ARRIVALS
FROM EAST

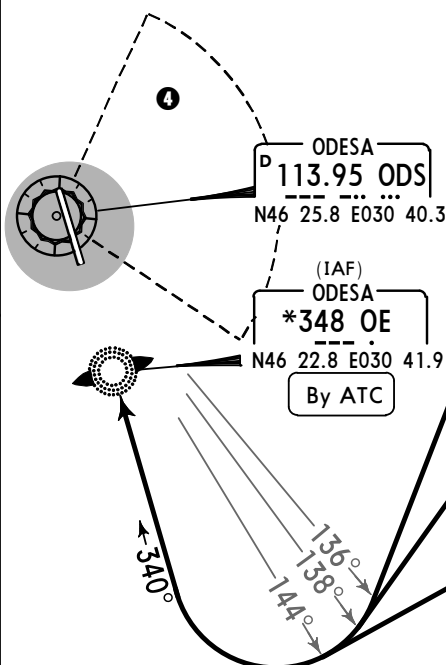


**HOLDING OVER
OE**



4 Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.

LOST COMMS ▼ LOST COMMS
▶ Proceed to OE. ◀
LOST COMMS ▼ LOST COMMS



FT/METER CONVERSION

	QNH
10010'	3050m
9030'	2750m
3940'	1200m
1810'	550m



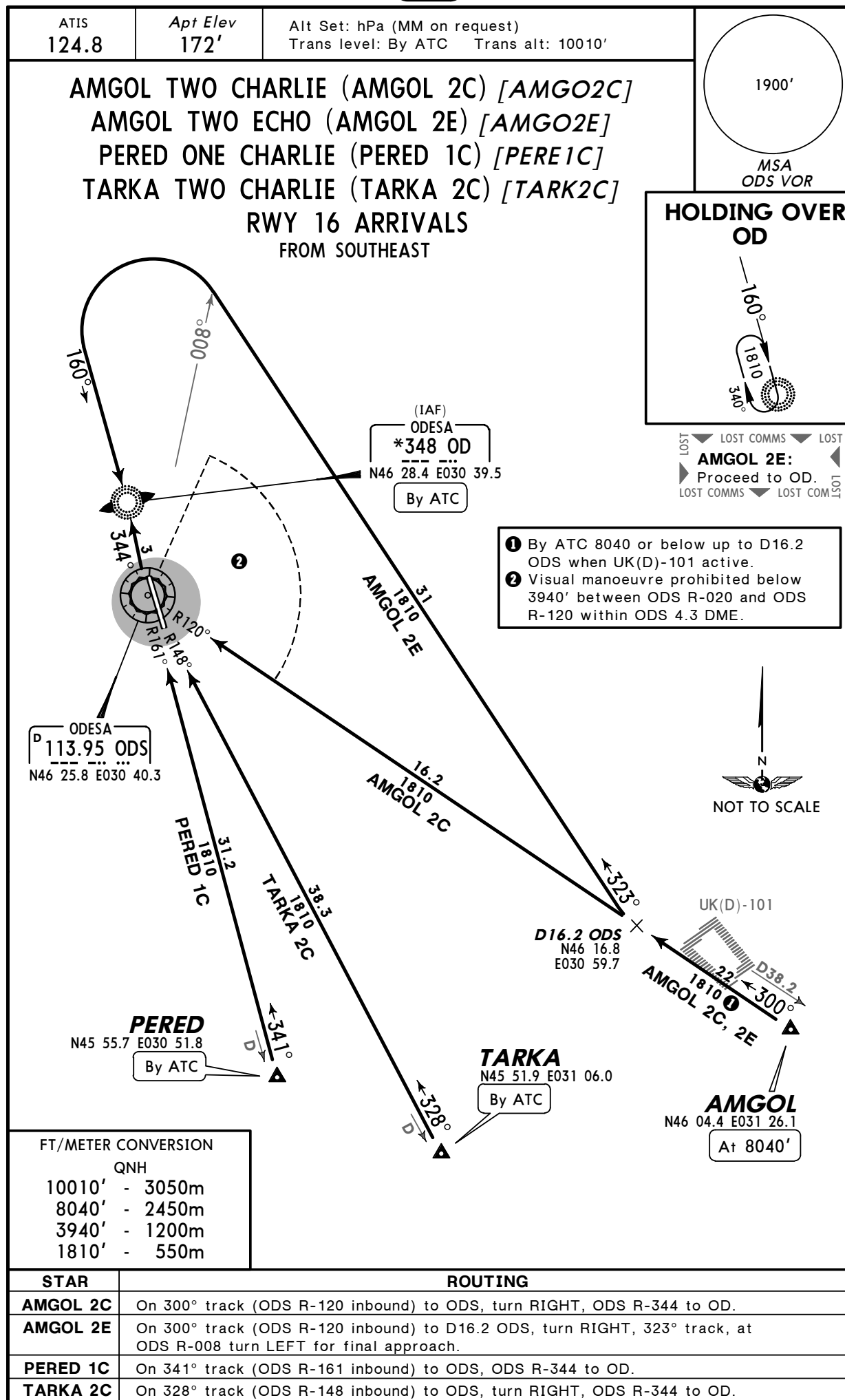
- By ATC 4930 or below up to D20.2 ODS when UK(T)-723-05 active.
- By ATC 9030 or below up to D18.5 ODS when UK(T)-723-06 active.
- By ATC 9030 or below up to D19.8 ODS when UK(T)-723-06 active.

STAR	ROUTING
BANID 1D	On 254° track (ODS R-074 inbound) to D16 ODS, turn LEFT, 216° track, at ODS R-138 turn RIGHT for final approach.
KOSAK 2D	On 277° track (ODS R-097 inbound) to D16.2 ODS, turn LEFT, 237° track, at ODS R-144 turn RIGHT for final approach.
MOKAD 2D	On 229° track (ODS R-049 inbound) to D16.2 ODS, turn LEFT, 197° track, at ODS R-136 turn RIGHT for final approach.

UK00/ODS
ODESA

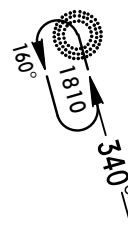
JEPPESSEN
26 OCT 07 **(10-2D)**

ODESA, UKRAINE
STAR



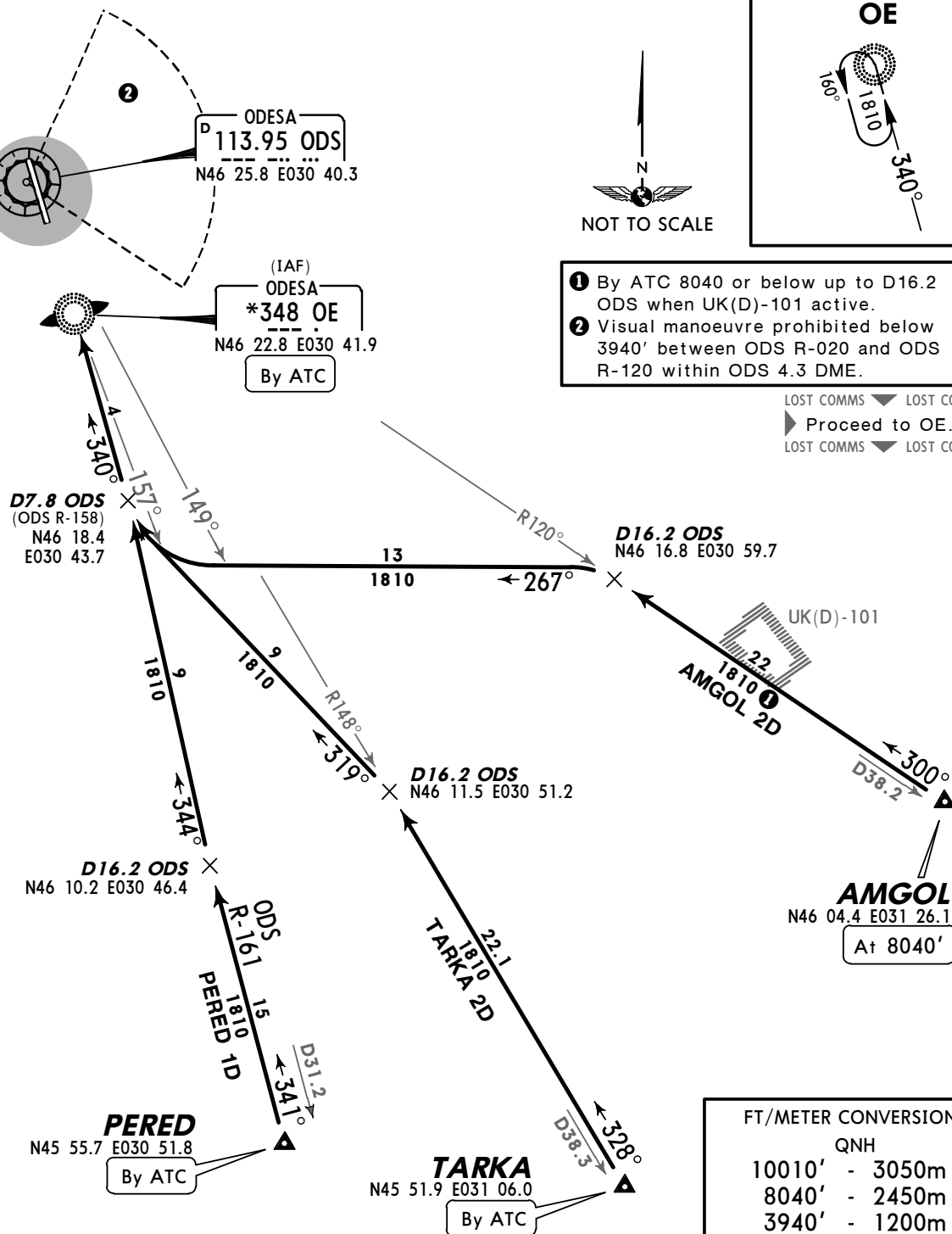
UK00/ODS
ODESA**JEPPESSEN**26 OCT 07 **10-2E****ODESA, UKRAINE****STAR**ATIS
124.8Apt Elev
172'Alt Set: hPa (MM on request)
Trans level: By ATC Trans alt: 10010'**AMGOL TWO DELTA (AMGOL 2D) [AMGO2D]**
PERED ONE DELTA (PERED 1D) [PERE1D]
TARKA TWO DELTA (TARKA 2D) [TARK2D]
RWY 34 ARRIVALS
FROM SOUTHEAST

1900'

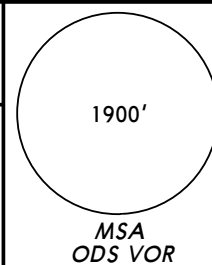
MSA
ODS VOR**HOLDING OVER**
OE

- ① By ATC 8040 or below up to D16.2 ODS when UK(D)-101 active.
- ② Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.

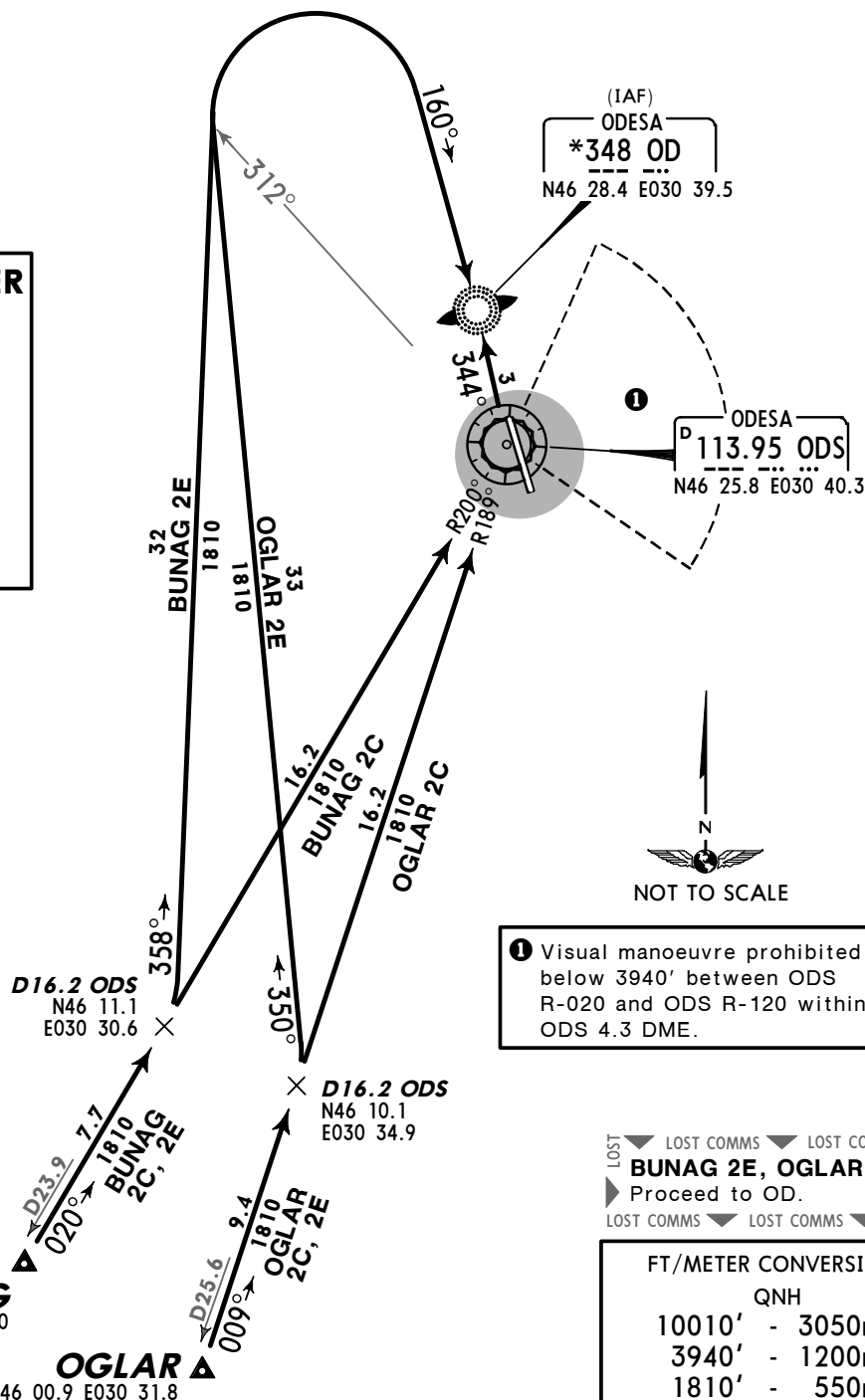
LOST COMMS ▼ LOST COMMS
 ► Proceed to OE. ◄
 LOST COMMS ▼ LOST COMMS



STAR	ROUTING
AMGOL 2D	On 300° track (ODS R-120 inbound) to D16.2 ODS, turn LEFT, 267° track, at ODS R-149 turn RIGHT for final approach.
PERED 1D	On 341° track (ODS R-161 inbound) to D16.2 ODS, turn RIGHT, 344° track, at ODS R-158 turn LEFT for final approach.
TARKA 2D	On 328° track (ODS R-148 inbound) to D16.2 ODS, turn LEFT, 319° track, at ODS R-157 turn RIGHT for final approach.

UK00/ODS
ODESA**JEPPESSEN**26 OCT 07 **(10-2F)****ODESA, UKRAINE****STAR**ATIS
124.8Apt Elev
172'Alt Set: hPa (MM on request)
Trans level: By ATC Trans alt: 10010'
Crossing altitudes by ATC.

BUNAG TWO CHARLIE (BUNAG 2C) [BUNA2C]
BUNAG TWO ECHO (BUNAG 2E) [BUNA2E]
OGLAR TWO CHARLIE (OGLAR 2C) [OGLA2C]
OGLAR TWO ECHO (OGLAR 2E) [OGLA2E]
RWY 16 ARRIVALS
FROM SOUTHWEST

HOLDING OVER

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼
BUNAG 2E, OGLAR 2E:
 Proceed to OD.
 LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

FT/METER CONVERSION

QNH

10010' - 3050m

3940' - 1200m

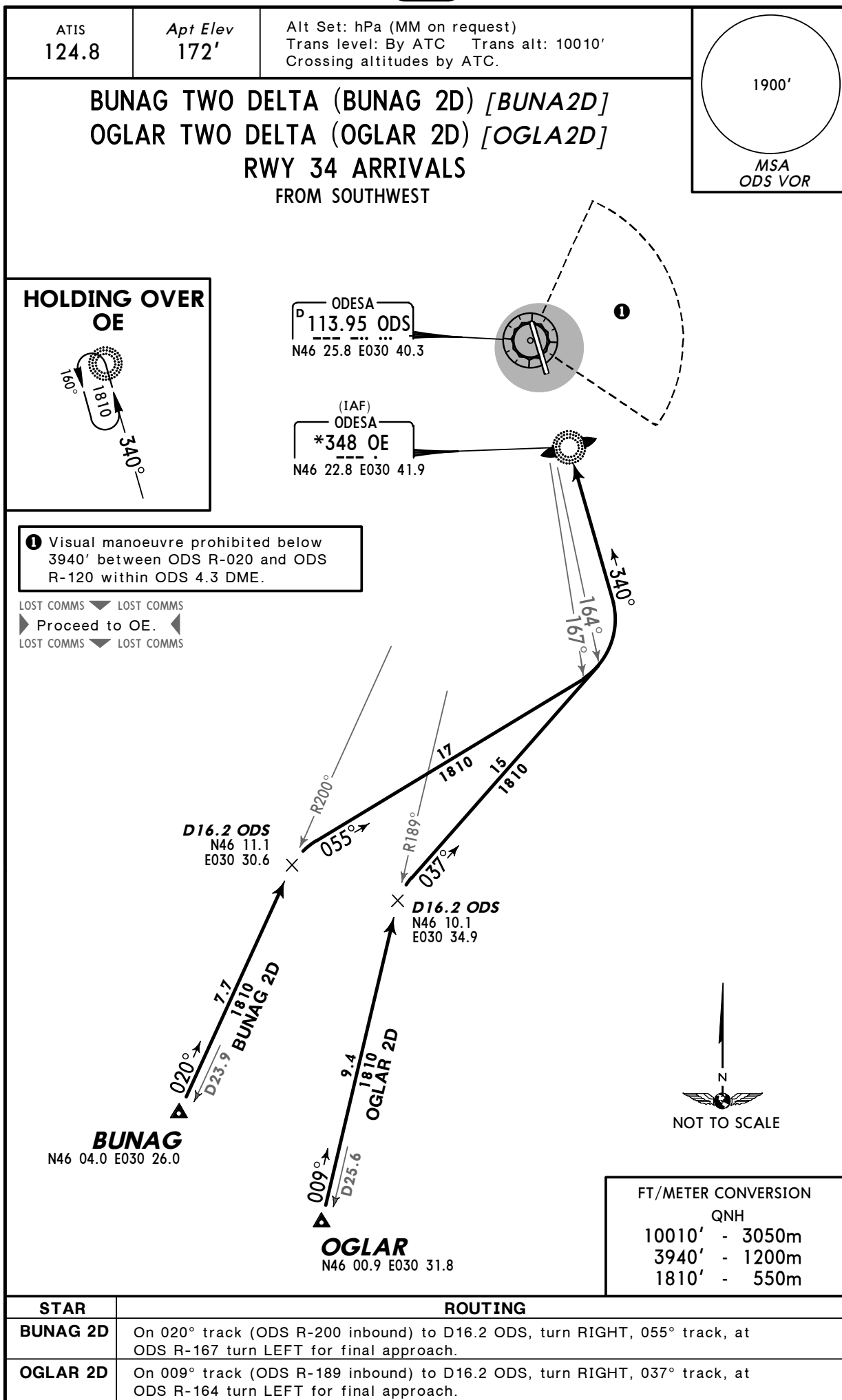
1810' - 550m

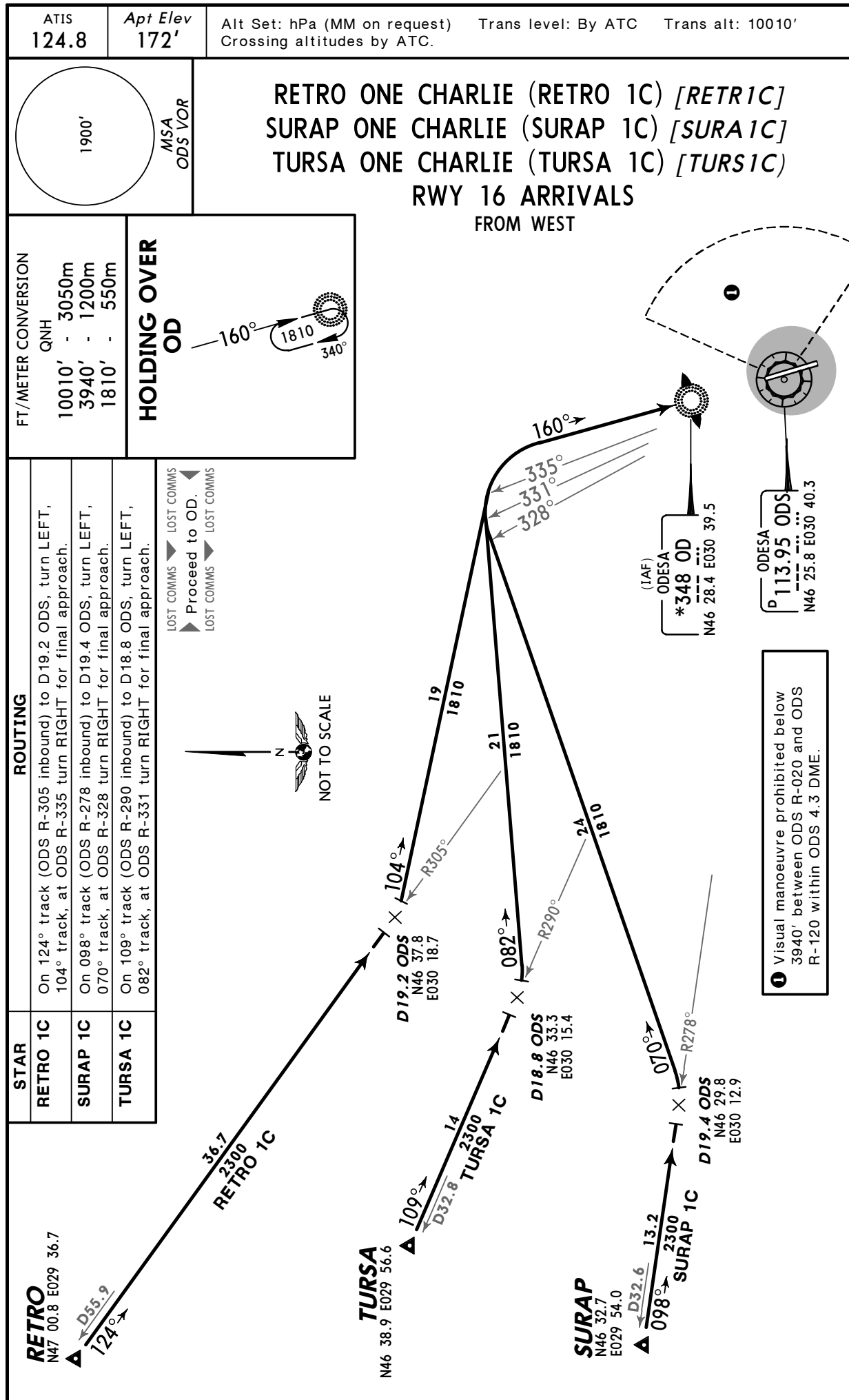
STAR	ROUTING
BUNAG 2C	On 020° track (ODS R-200 inbound) to ODS, turn LEFT, ODS R-344 to OD.
BUNAG 2E	On 020° track (ODS R-200 inbound) to D16.2 ODS, turn LEFT, 358° track, at ODS R-312 turn RIGHT for final approach.
OGLAR 2C	On 009° track (ODS R-189 inbound) to ODS, turn LEFT, ODS R-344 to OD.
OGLAR 2E	On 009° track (ODS R-189 inbound) to D16.2 ODS, turn LEFT, 350° track, at ODS R-312 turn RIGHT for final approach.

UK00/ODS
ODESA

JEPPESEN
 26 OCT 07 **(10-2G)**

ODESA, UKRAINE
STAR

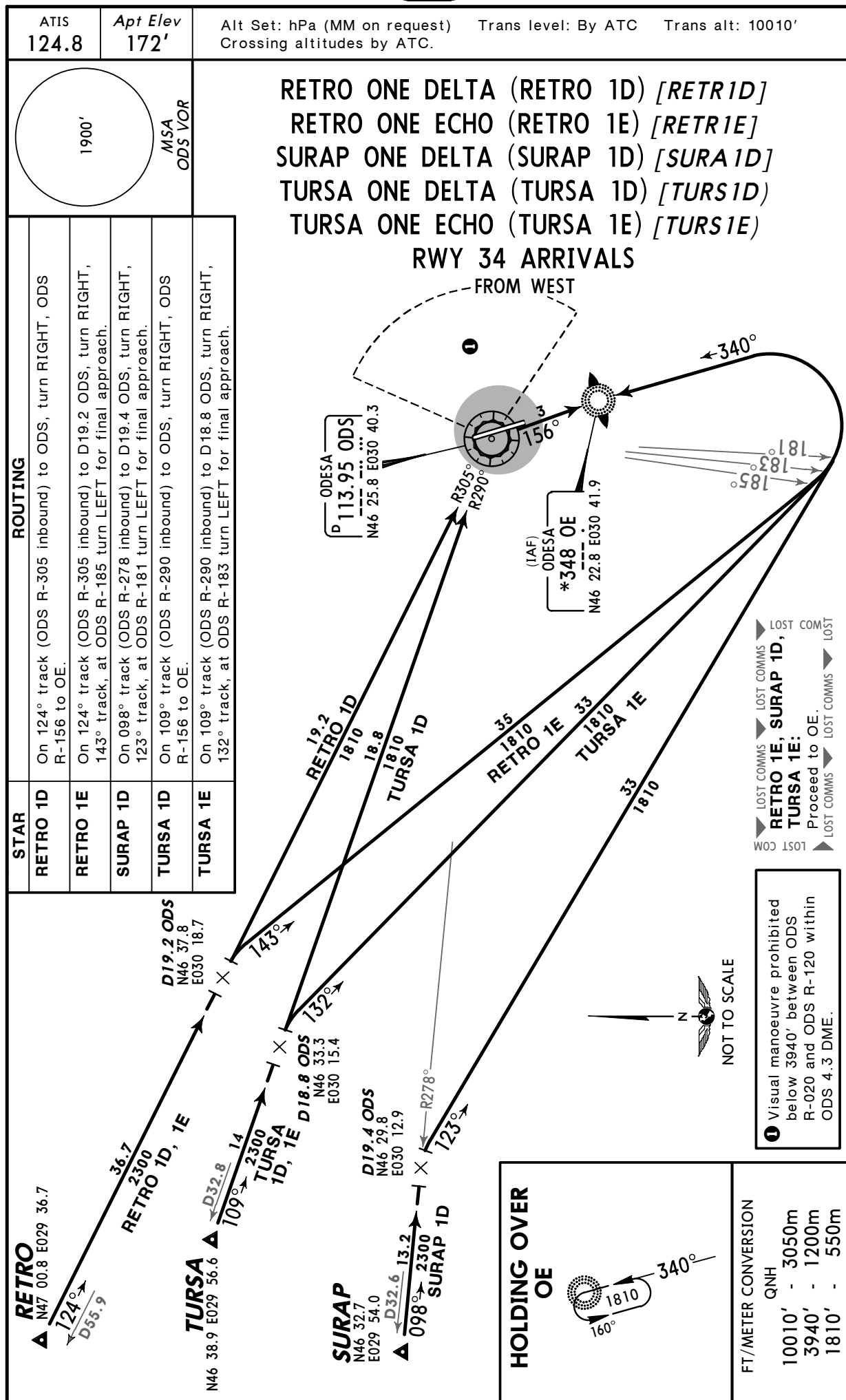


UK00/ODS
ODESA
JEPPesen
 26 OCT 07 **(10-2H)**
ODESA, UKRAINE
STAR


UK00/ODS
ODESA

JEPPesen
 26 OCT 07 **(10-2J)**

ODESA, UKRAINE
STAR



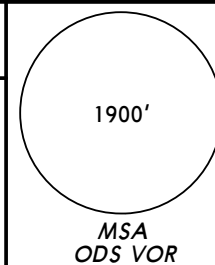
UK00/ODS
ODESA

JEPPESSEN
26 OCT 07 **10-3**

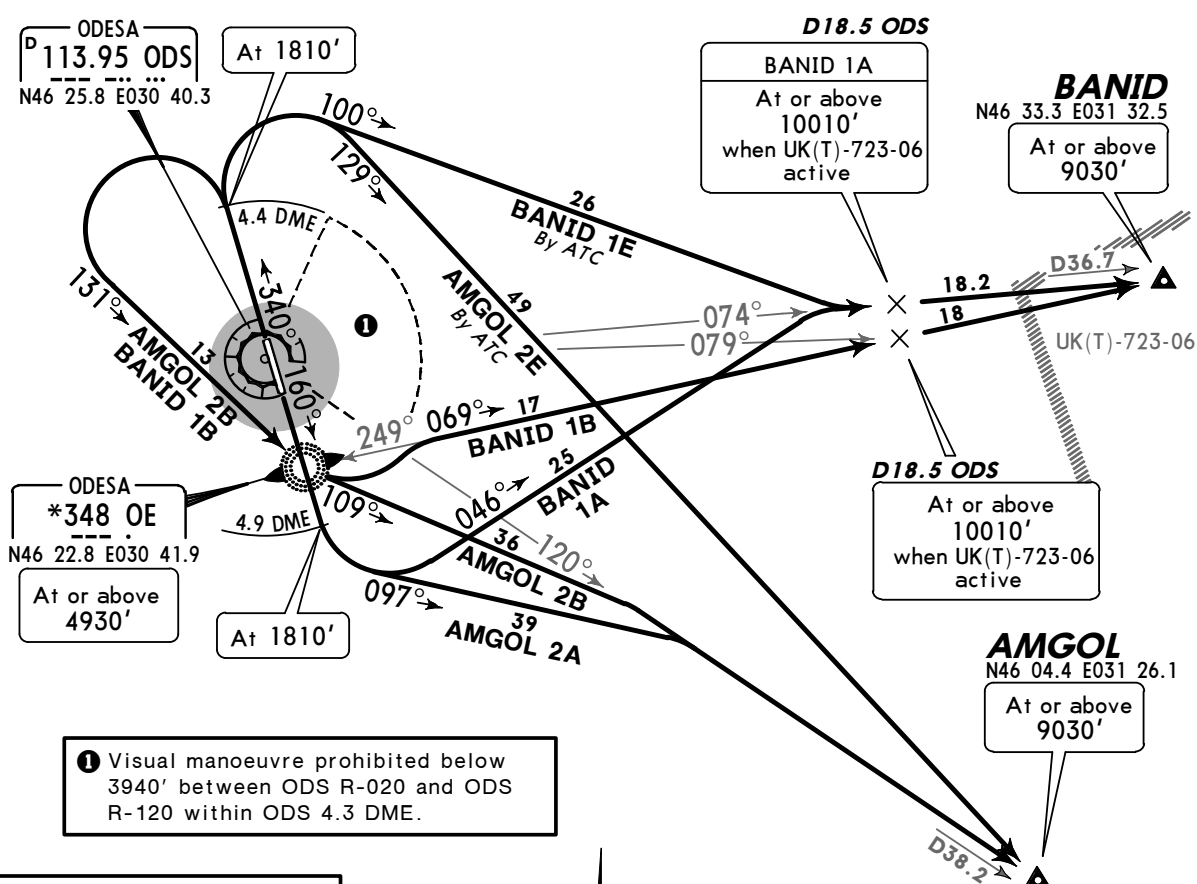
ODESA, UKRAINE
SID

Apt Elev
172'

Trans level: By ATC Trans alt: 10010'



AMGOL TWO ALFA (AMGOL 2A) [AMGO2A]
AMGOL TWO BRAVO (AMGOL 2B) [AMGO2B]
AMGOL TWO ECHO (AMGOL 2E) [AMGO2E]
BANID ONE ALFA (BANID 1A) [BANI1A]
BANID ONE BRAVO (BANID 1B) [BANI1B]
BANID ONE ECHO (BANID 1E) [BANI1E]
RWYS 16, 34 DEPARTURES



FT/METER CONVERSION

	QNH
1810'	- 550m
3940'	- 1200m
4930'	- 1500m
9030'	- 2750m
10010'	- 3050m



SID	RWY	ROUTING
AMGOL 2A	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, 097° track, intercept ODS R-120 to AMGOL.
AMGOL 2B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, turn LEFT, 109° track, intercept ODS R-120 to AMGOL.
AMGOL 2E By ATC		Climb on 340° track to ODS 4.4 DME, turn RIGHT, 129° track to AMGOL.
BANID 1A	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, 046° track, intercept ODS R-074 to BANID.
BANID 1B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, turn LEFT, intercept 069° bearing from OE to BANID.
BANID 1E By ATC		Climb on 340° track to ODS 4.4 DME, turn RIGHT, 100° track, intercept ODS R-074 to BANID.

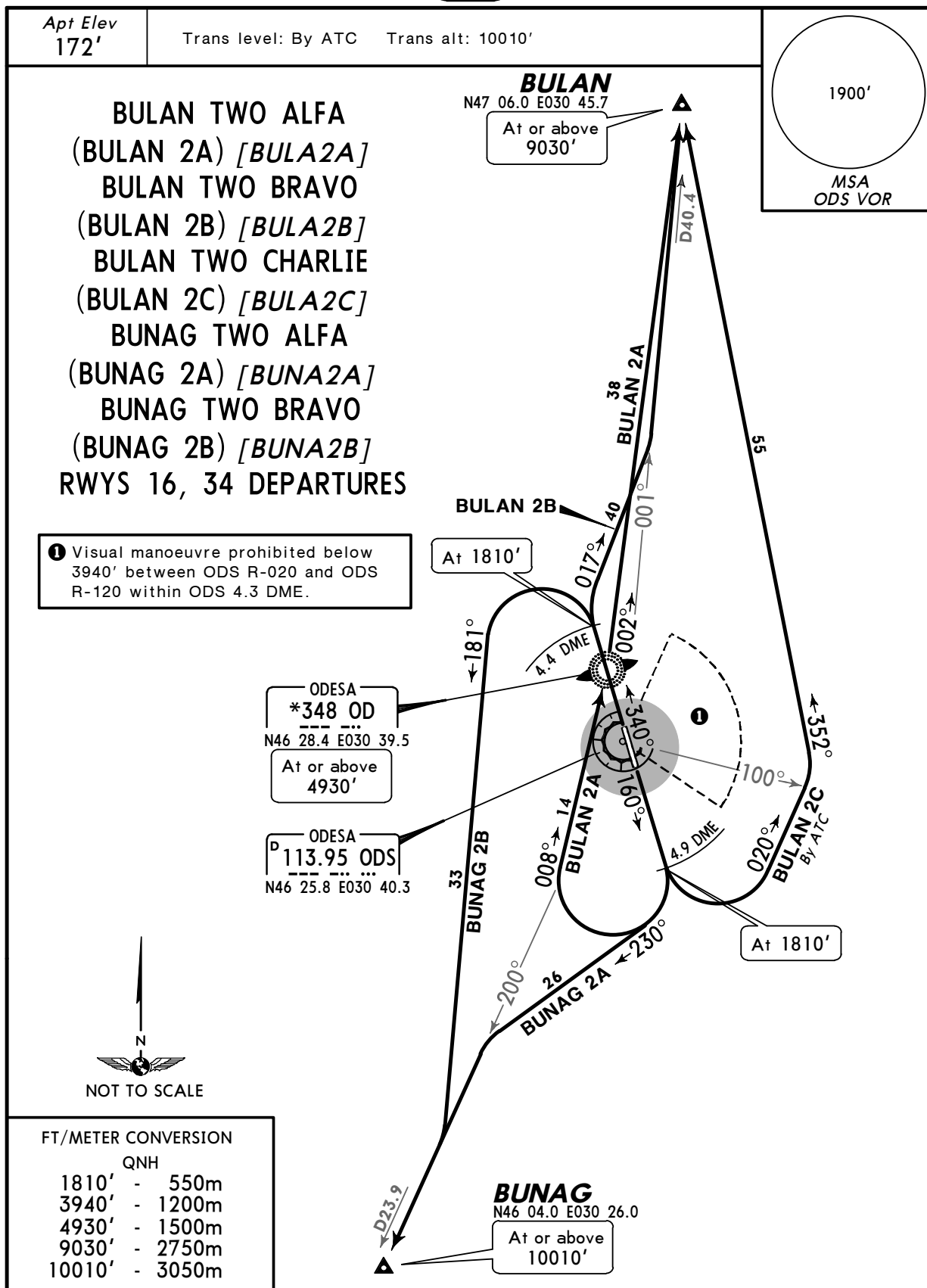
CHANGES: Altitude conversion.

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UK00/ODS
ODESA

JEPPESSEN
26 OCT 07 **(10-3A)**

ODESA, UKRAINE
SID

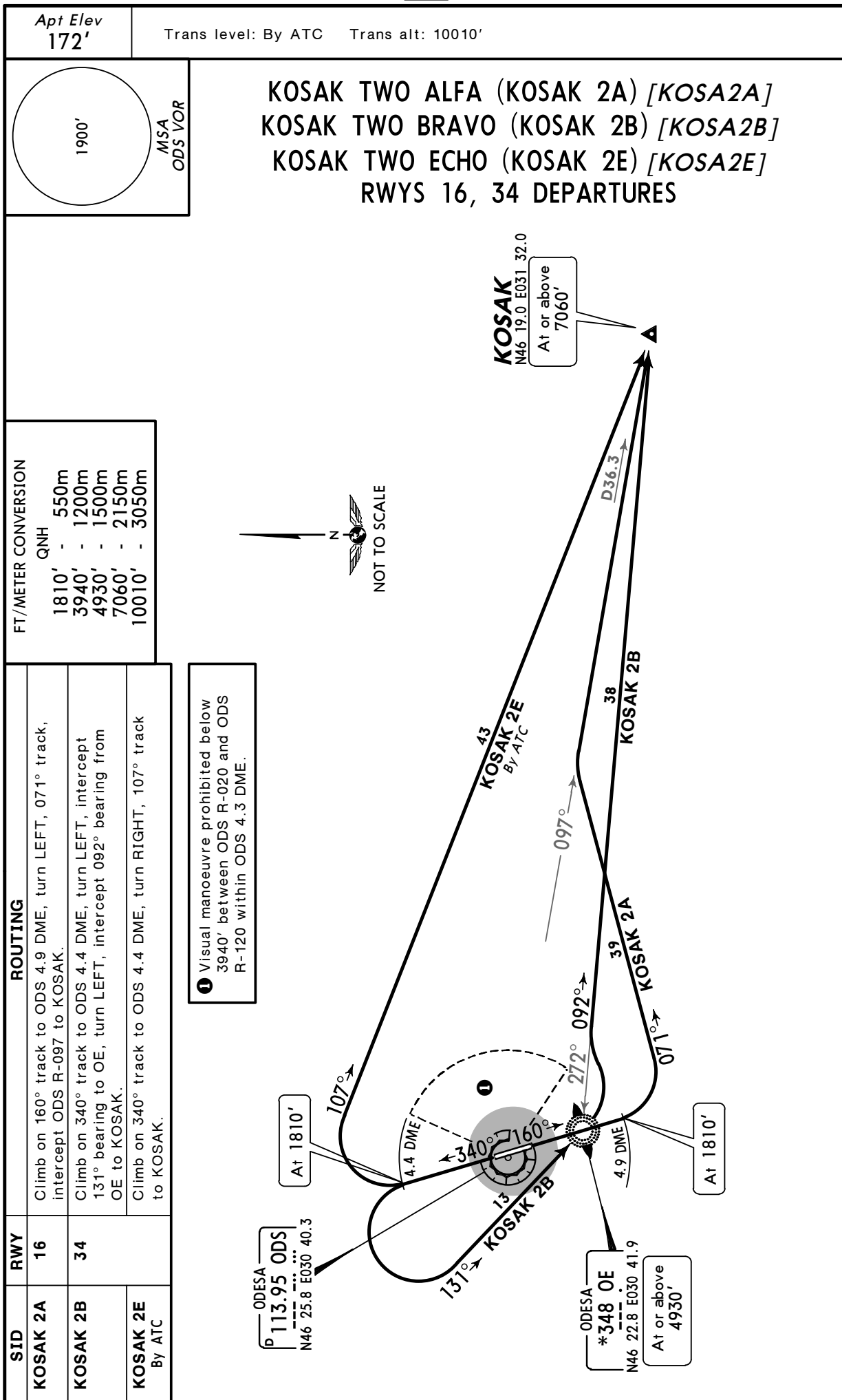


SID	RWY	ROUTING
BULAN 2A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, intercept 008° bearing to OD, turn LEFT, 002° bearing to BULAN.
BULAN 2B	34	Climb on 340° track to ODS 4.4 DME, turn RIGHT, 017° track, intercept ODS R-001 to BULAN.
BULAN 2C By ATC	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, 020° track, at ODS R-100 turn LEFT, 352° track to BULAN.
BUNAG 2A		Climb on 160° track to ODS 4.9 DME, turn RIGHT, 230° track, intercept ODS R-200 to BUNAG.
BUNAG 2B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, 181° track, intercept ODS R-200 to BUNAG.

UK00/ODS
ODESA

JEPPESEN
 26 OCT 07 **(10-3B)**

ODESA, UKRAINE
SID



UK00/ODS
ODESA

JEPPESEN

26 OCT 07

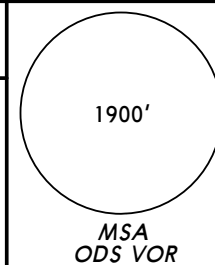
10-3C

ODESA, UKRAINE

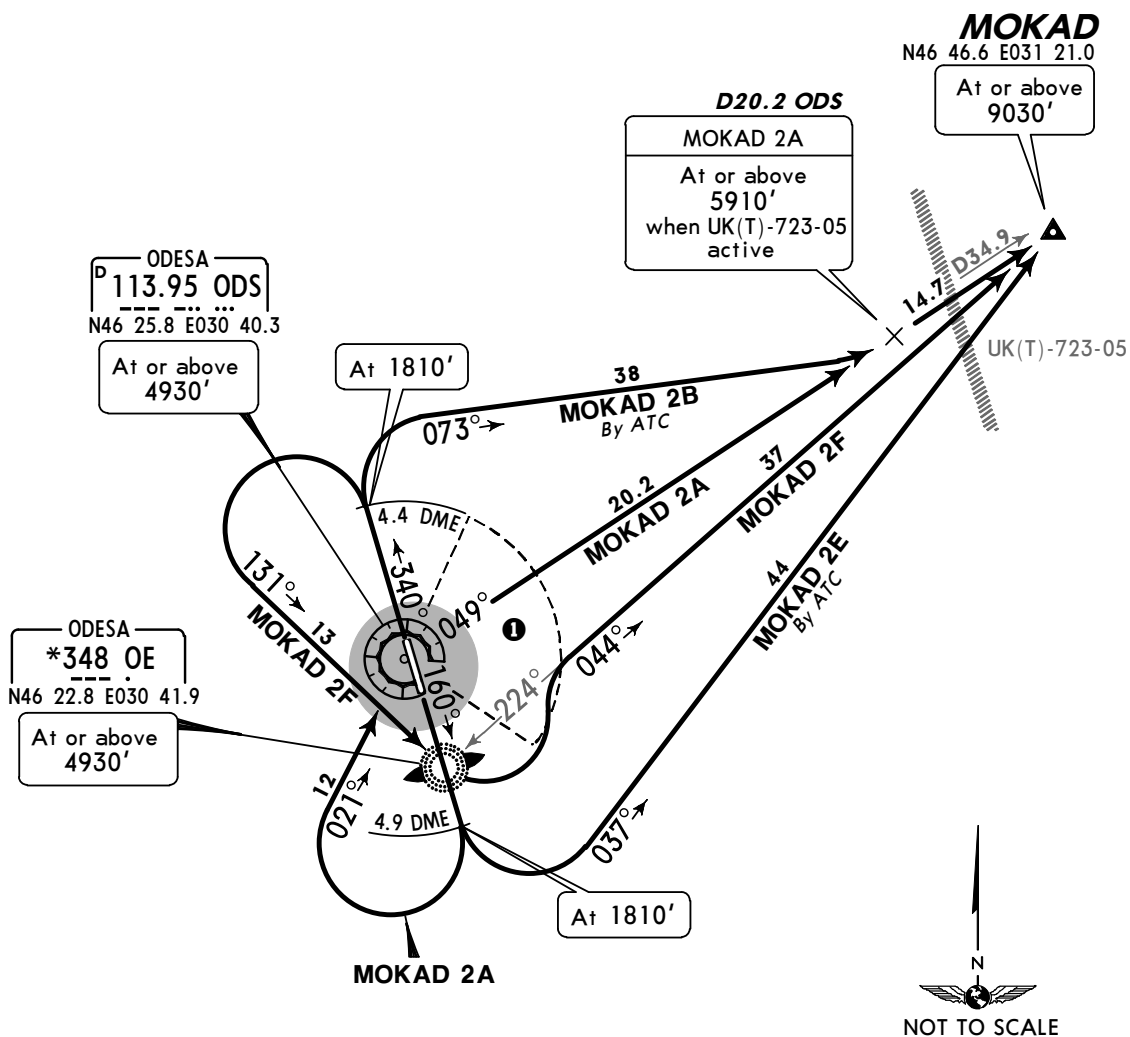
SID

Apt Elev
172'

Trans level: By ATC Trans alt: 10010'



MOKAD TWO ALFA (MOKAD 2A) [MOKA2A]
MOKAD TWO BRAVO (MOKAD 2B) [MOKA2B]
MOKAD TWO ECHO (MOKAD 2E) [MOKA2E]
MOKAD TWO FOXTROT (MOKAD 2F) [MOKA2F]
RWYS 16, 34 DEPARTURES



1 Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.

FT/METER CONVERSION	
1810'	- 550m
3940'	- 1200m
4930'	- 1500m
5910'	- 1800m
9030'	- 2750m
10010'	- 3050m

SID	RWY	ROUTING
MOKAD 2A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, 021° track to ODS, turn RIGHT, ODS R-049 to MOKAD.
MOKAD 2B By ATC	34	Climb on 340° track to ODS 4.4 DME, turn RIGHT, 073° track, intercept ODS R-049 to MOKAD.
MOKAD 2E By ATC	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, 037° track to MOKAD.
MOKAD 2F	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, turn LEFT, intercept 044° bearing from OE to MOKAD.

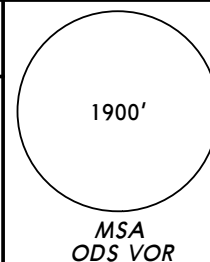
UK00/ODS
ODESA

JEPPESEN
 26 OCT 07 **(10-3D)**

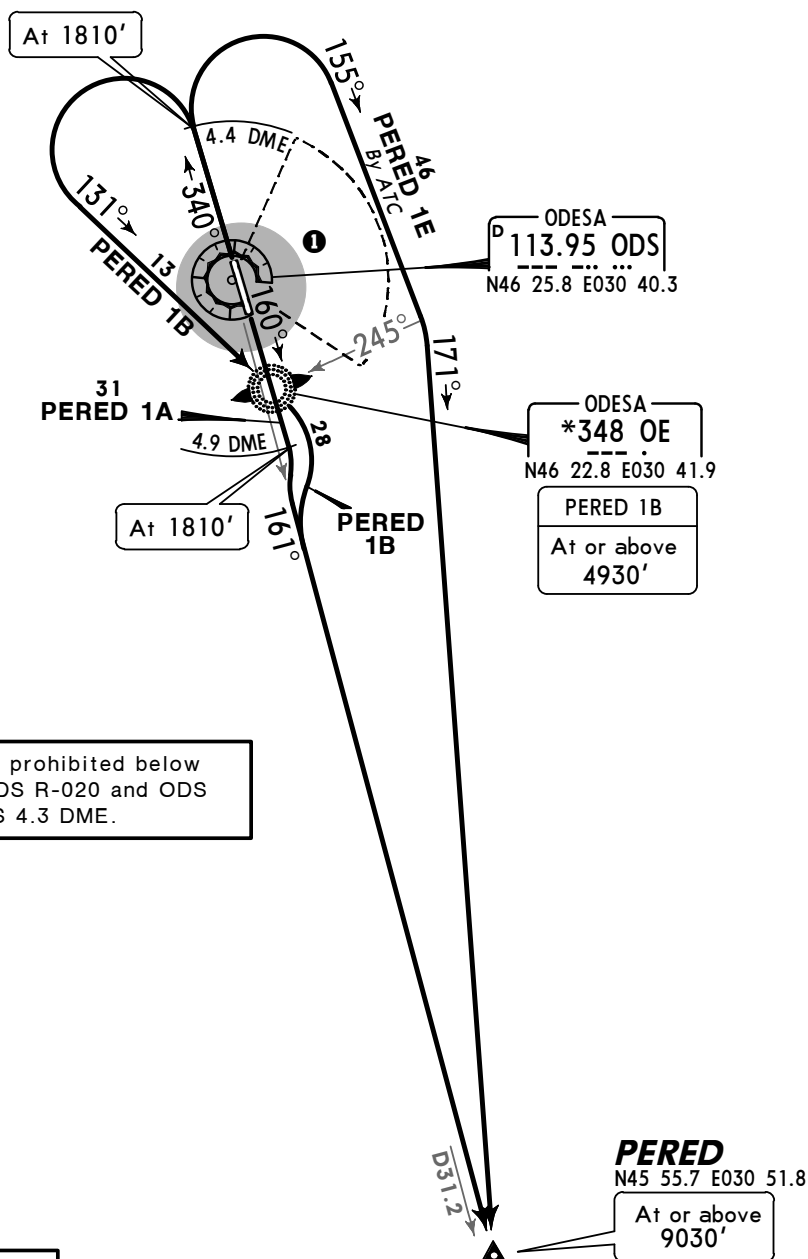
ODESA, UKRAINE
SID

Apt Elev
 172'

Trans level: By ATC Trans alt: 10010'



**PERED ONE ALFA (PERED 1A) [PERE1A]
 PERED ONE BRAVO (PERED 1B) [PERE1B]
 PERED ONE ECHO (PERED 1E) [PERE1E]
 RWYS 16, 34 DEPARTURES**



① Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.



FT/METER CONVERSION	
QNH	
1810'	- 550m
3940'	- 1200m
4930'	- 1500m
9030'	- 2750m
10010'	- 3050m

SID	RWY	ROUTING
PERED 1A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, intercept ODS R-161 to PERED.
PERED 1B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, intercept ODS R-161 to PERED.
PERED 1E By ATC		Climb on 340° track to ODS 4.4 DME, turn RIGHT, 155° track, at 245° bearing to OE turn RIGHT, 171° track to PERED.

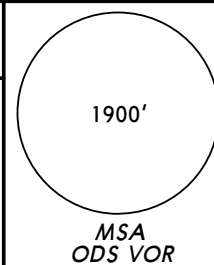
UK00/ODS
ODESA

JEPPESEN
 26 OCT 07 **10-3E**

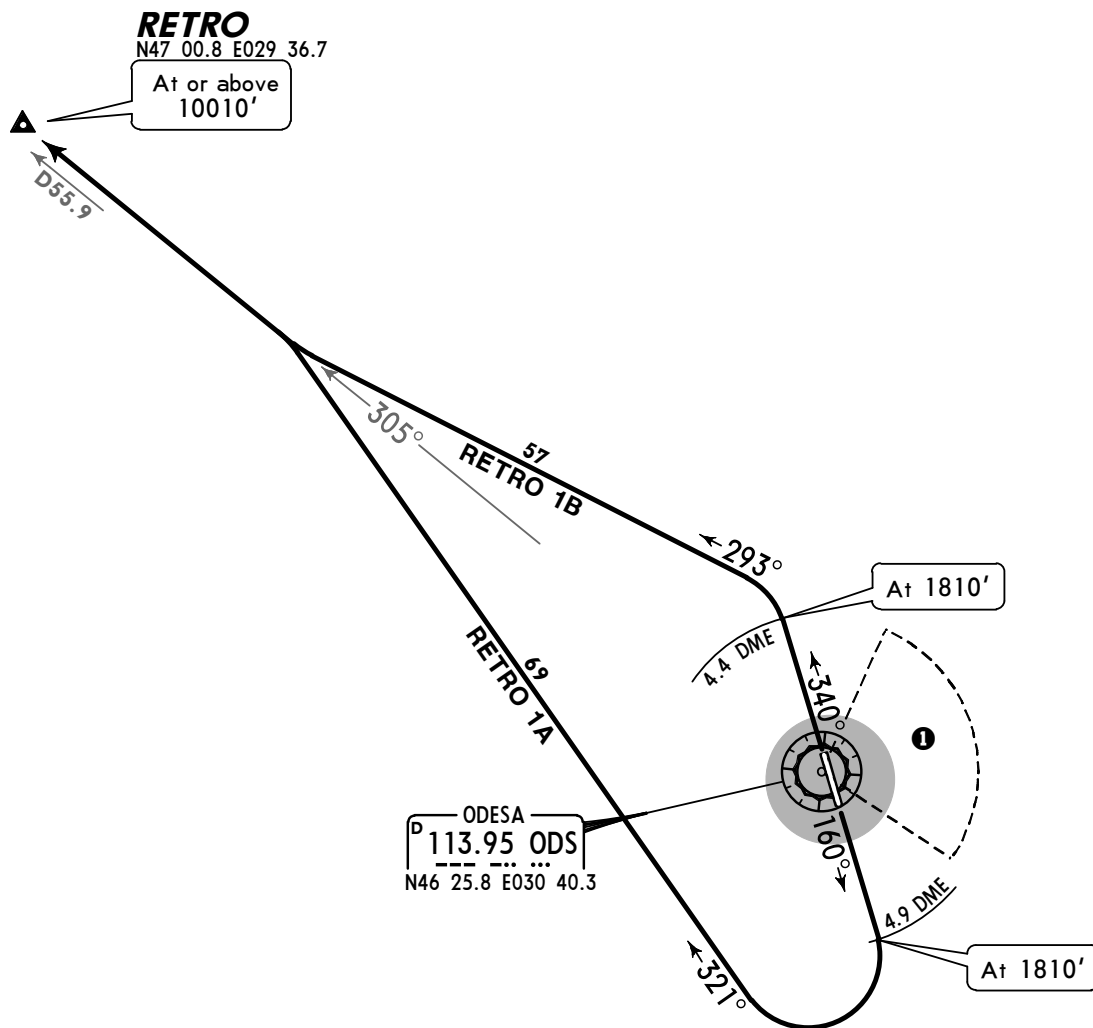
ODESA, UKRAINE
SID

Apt Elev
 172'

Trans level: By ATC Trans alt: 10010'



RETRO ONE ALFA (RETRO 1A) [RETR1A]
RETRO ONE BRAVO (RETRO 1B) [RETR1B]
RWYS 16, 34 DEPARTURES
BY ATC



1 Visual manoeuvre prohibited below 3940' between ODS R-020 and ODS R-120 within ODS 4.3 DME.

FT/METER CONVERSION	
	QNH
1810'	- 550m
3940'	- 1200m
10010'	- 3050m

SID	RWY	ROUTING
RETRO 1A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, 321° track, intercept ODS R-305 to RETRO.
RETRO 1B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, 293° track, intercept ODS R-305 to RETRO.

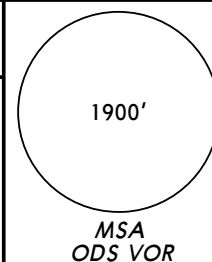
UK00/ODS
ODESA

JEPPESSEN
26 OCT 07 **10-3F**

ODESA, UKRAINE
SID

Apt Elev
172'

Trans level: By ATC Trans alt: 10010'



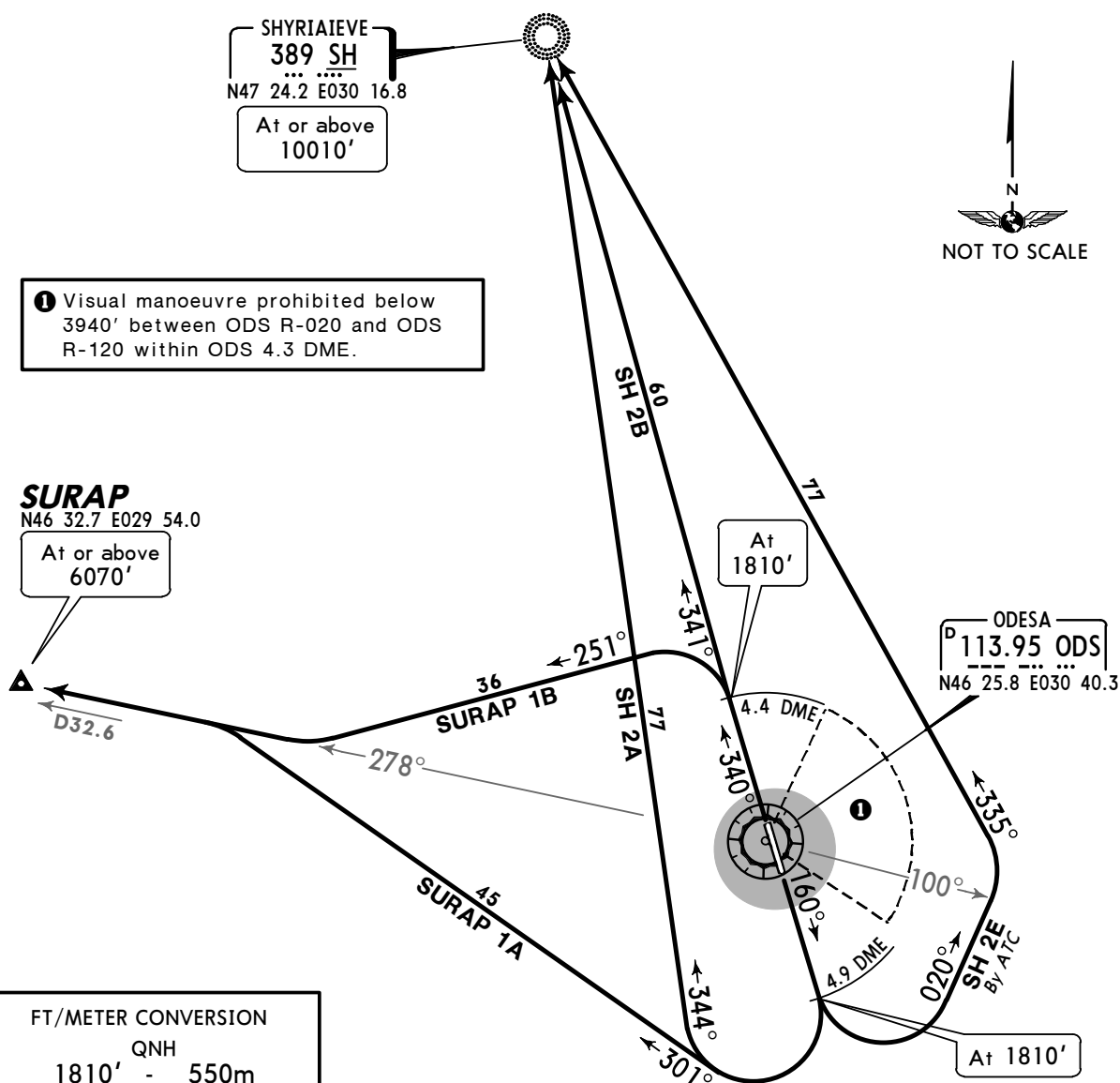
SHYRIAIEVE TWO ALFA (SH 2A)
SHYRIAIEVE TWO BRAVO (SH 2B)
SHYRIAIEVE TWO ECHO (SH 2E)
SURAP ONE ALFA (SURAP 1A) [SURA1A]
SURAP ONE BRAVO (SURAP 1B) [SURA1B]
RWYS 16, 34 DEPARTURES

SHYRIAIEVE
389 SH
... ..
N47 24.2 E030 16.8
At or above
10010'

1 Visual manoeuvre prohibited below
3940' between ODS R-020 and ODS
R-120 within ODS 4.3 DME.



SURAP
N46 32.7 E029 54.0
At or above
6070'



FT/METER CONVERSION
QNH
1810' - 550m
3940' - 1200m
6070' - 1850m
10010' - 3050m

SID	RWY	ROUTING
SH 2A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, intercept 344° bearing to SH.
SH 2B	34	Climb on 340° track to ODS 4.4 DME, turn RIGHT, intercept 341° bearing to SH.
SH 2E By ATC	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, 020° track, at ODS R-100 turn LEFT, intercept 335° bearing to SH.
SURAP 1A		Climb on 160° track to ODS 4.9 DME, turn RIGHT, 301° track, intercept ODS R-278 to SURAP.
SURAP 1B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, 251° track, intercept ODS R-278 to SURAP.

UK00/ODS
ODESA

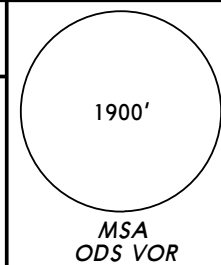
JEPPESEN
26 OCT 07 (10-3G)

ODESA, UKRAINE

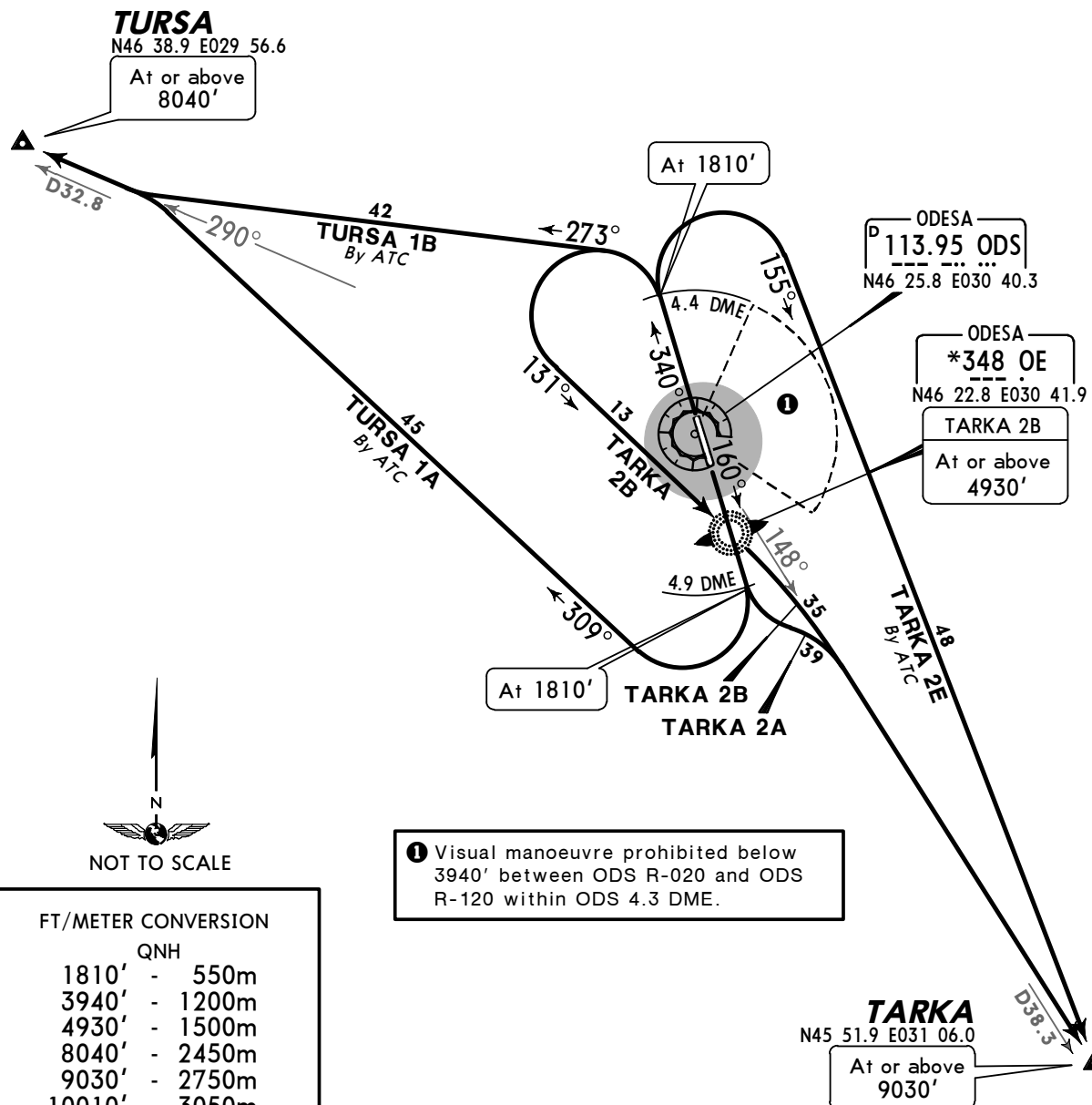
SID

Apt Elev
172'

Trans level: By ATC Trans alt: 10010'



TARKA TWO ALFA (TARKA 2A) [TARK2A]
TARKA TWO BRAVO (TARKA 2B) [TARK2B]
TARKA TWO ECHO (TARKA 2E) [TARK2E]
TURSA ONE ALFA (TURSA 1A) [TURS1A]
TURSA ONE BRAVO (TURSA 1B) [TURS1B]
RWYS 16, 34 DEPARTURES



SID	RWY	ROUTING
TARKA 2A	16	Climb on 160° track to ODS 4.9 DME, turn LEFT, intercept ODS R-148 to TARKA.
TARKA 2B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, intercept ODS R-148 to TARKA.
TARKA 2E By ATC		Climb on 340° track to ODS 4.4 DME, turn RIGHT, 155° track to TARKA.
TURSA 1A By ATC	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, 309° track, intercept ODS R-290 to TURSA.
TURSA 1B By ATC	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, 273° track, intercept ODS R-290 to TURSA.

UK00/ODS

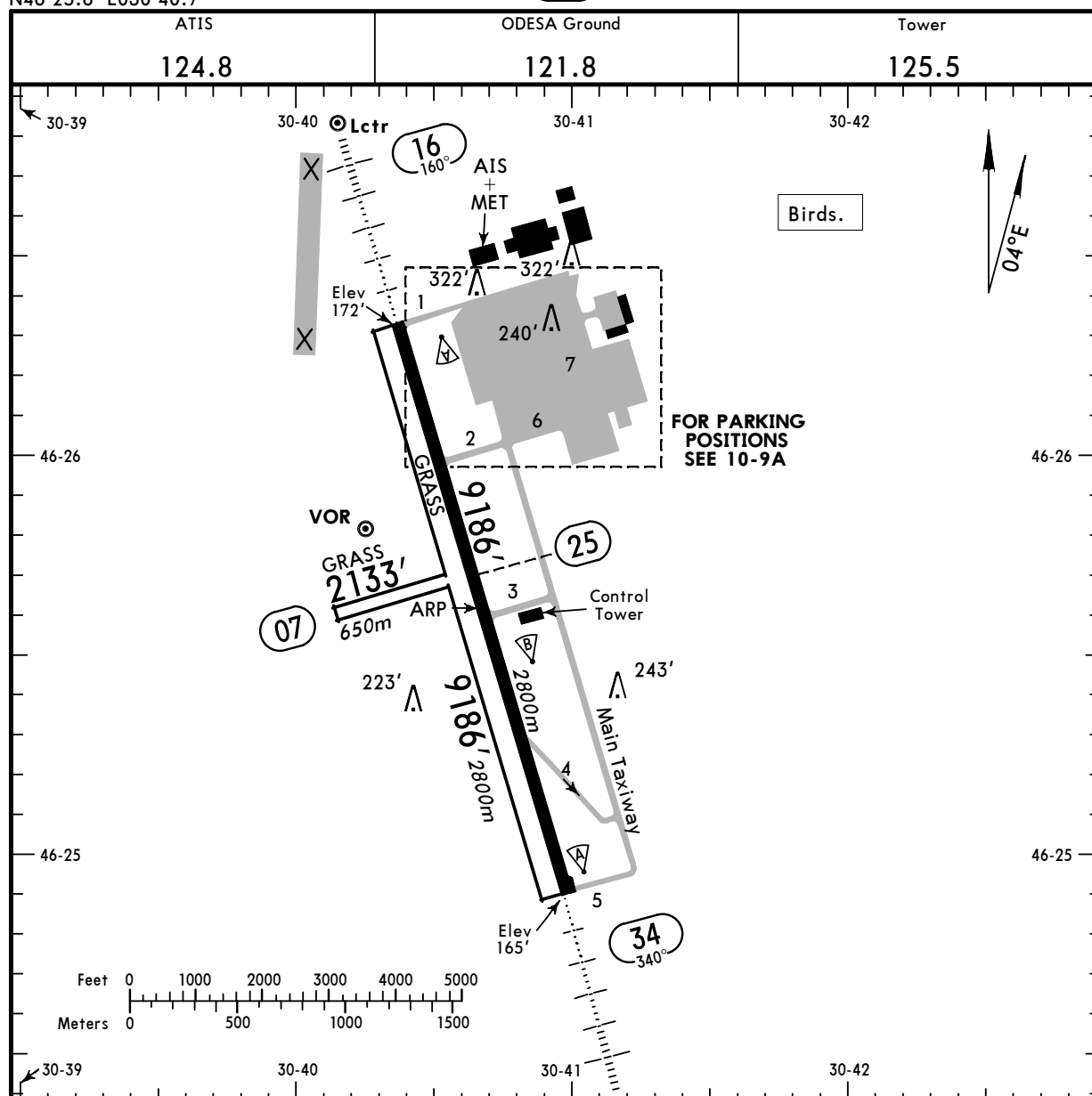
Apt Elev **172'**
N46 25.6 E030 40.7



13 JUN 08 (10-9)

ODESA, UKRAINE

ODESA



ADDITIONAL RUNWAY INFORMATION

		ADDITIONAL RUNWAY	USABLE LENGTHS			WIDTH
			LANDING BEYOND		TAKE-OFF	
RWY			Threshold	Glide Slope		
07	25					197' 60m
16	34	HIRL (50m) HIALS PAPI RVR		8235' 2510m	8760' 2670m①	184' 56m
16	34	Grass runway				328' 100m

① First 427' / 130m unusable for take-off.

JAR-OPS

TAKE-OFF 1

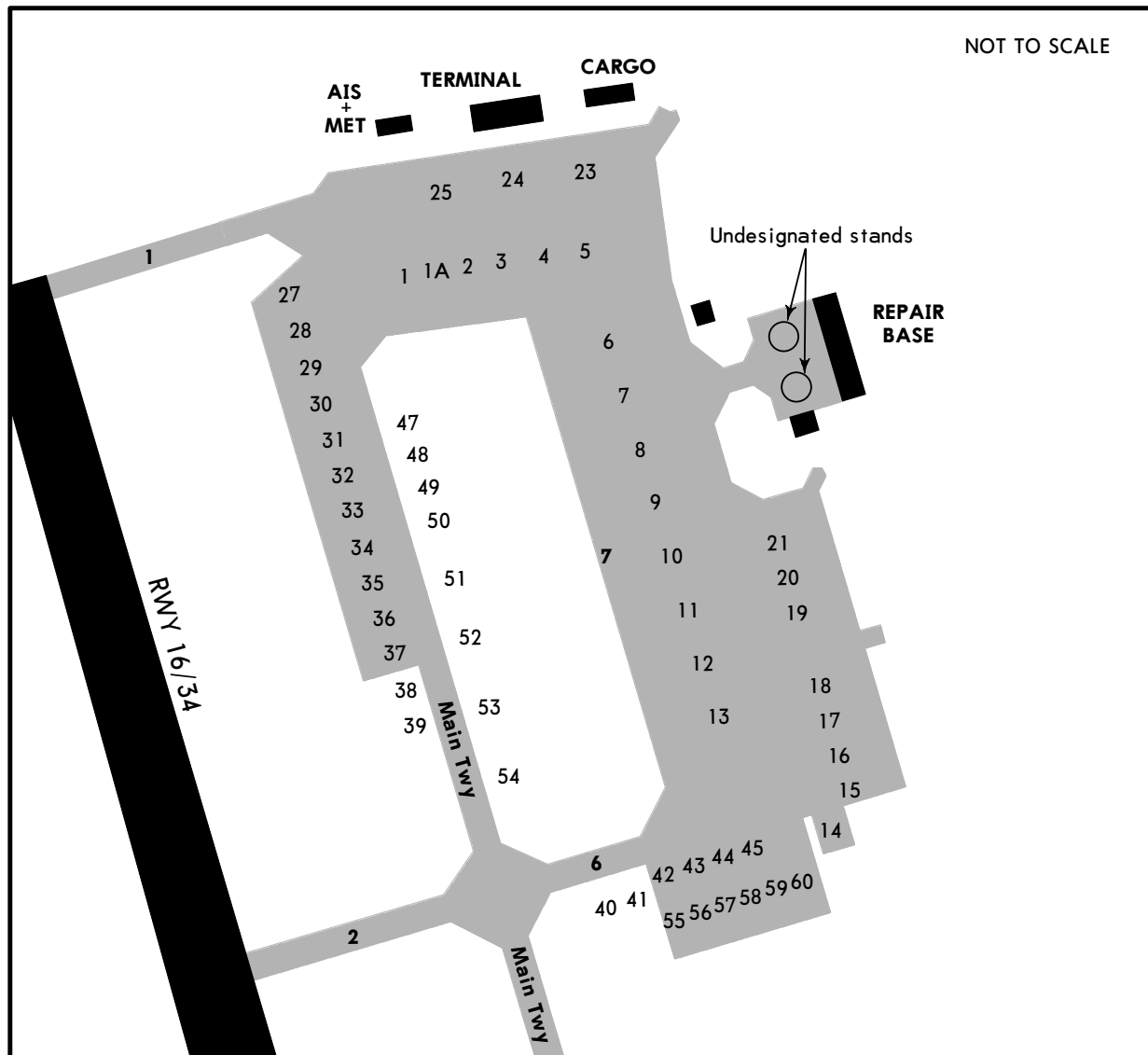
	LVP must be in force	All Rwys	
	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

1 Operators applying U.S. Ops Specs: CL required below 300m.

UK00/ODS

JEPPESEN
13 JUN 08 (10-9A)

ODESA, UKRAINE
ODESA



Taxiing is strictly along centerline with inner engines power.
Stand 14 available for engine run-up.
Stands 38, 39 and 50 thru 54 available for helicopters.

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JEPPESEN
2 APR 10 **10-9S**
Standard
ODESA, UKRAINE
ODESA

STRAIGHT-IN RWY		A	B	C	D
16	ILS	372' (200')	372' (200')	372' (200')	372' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	NDB ❶	680' (508')	680' (508')	680' (508')	680' (508')
	<i>ALS out</i>	R1500m	R1500m	R1600m	R1600m
34	ILS	365' (200')	365' (200')	365' (200')	365' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	NDB ❶	630' (465')	630' (465')	630' (465')	630' (465')
	<i>ALS out</i>	R1500m	R1500m	R1500m	R1500m
		R1500m	R1500m	C2200m	C2200m

❶ Continuous Descent Final Approach.

CIRCLE-TO-LAND ❷	100 KT	135 KT	180 KT	205 KT
After apch to rwy 16	920' (748')	920' (748')	1020' (848')	1020' (848')
After apch to rwy 34 ❸	920' (755')	920' (755')	1020' (855')	1020' (855')
	V1500m	V1600m	V2400m	V3600m

❷ Prohibited in sector between R-020 & R-120 ODS.

❸ Circling height based on rwy 34 thresh elev of 165'.

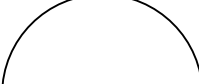
TAKE-OFF RWY 07, 16, 25, 34

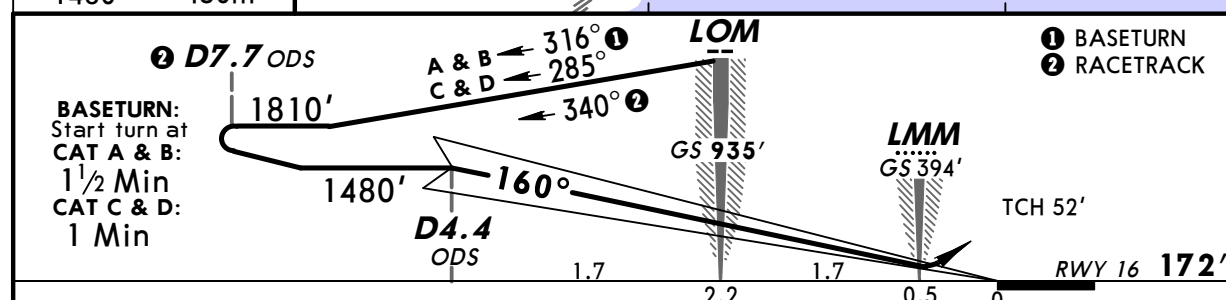
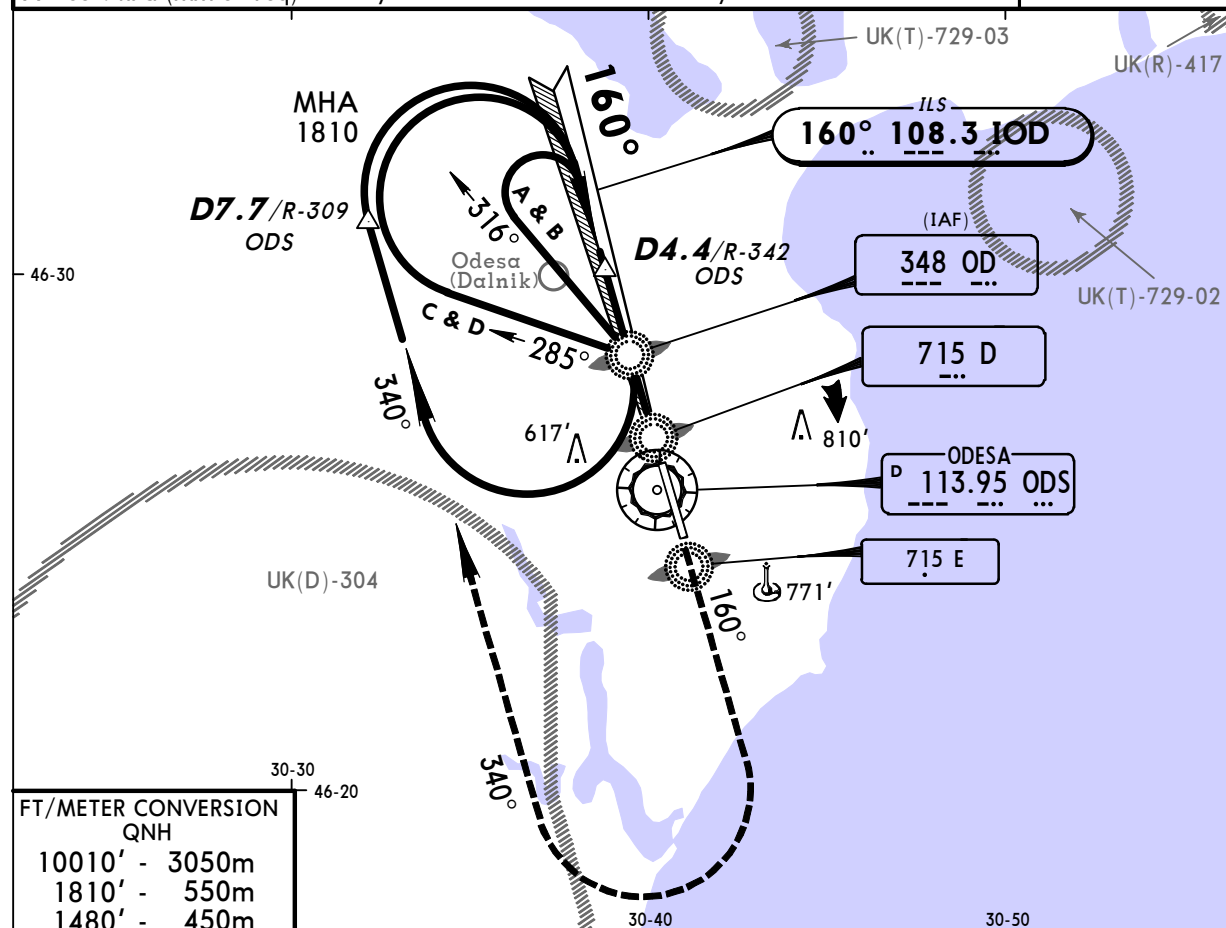
LVP must be in Force			
	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

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JEPPESEN
12 FEB 10 (11-1)

ODESA, UKRAINE
ILS Rwy 16

ATIS 124.8		ODESA Radar (APP) 120.9 127.7		ODESA Tower 125.5	Ground 121.8
LOC IOD 108.3	Final Apch Crs 160°	GS LOM 935' (763')	ILS DA(H) 372' (200')	Apt Elev 172' RWY 172'	 1900' MSA ODS VOR
MISSED APCH: Climb on 160° to 1810', then turn RIGHT on 340°, then according to chart.					
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'					



Gnd speed-Kts	70	90	100	120	140	160
GS 3.00°	377	485	539	647	755	862

JAR-OPS		STRAIGHT-IN LANDING RWY 16		CIRCLE-TO-LAND	
ILS		LOC (GS out)		Prohibited in sector R-020 to R-120 ODS	
DA(H) 372' (200')					
FULL		ALS out		Max Kts.	MDA(H) VIS
A	RVR 550m	RVR 1000m	NOT AUTH	100	920' (748') 1500m
B				135	920' (748') 1600m
C				180	1020' (848') 2400m
D				205	1020' (848') 3600m

CHANGES: Circling minimums.

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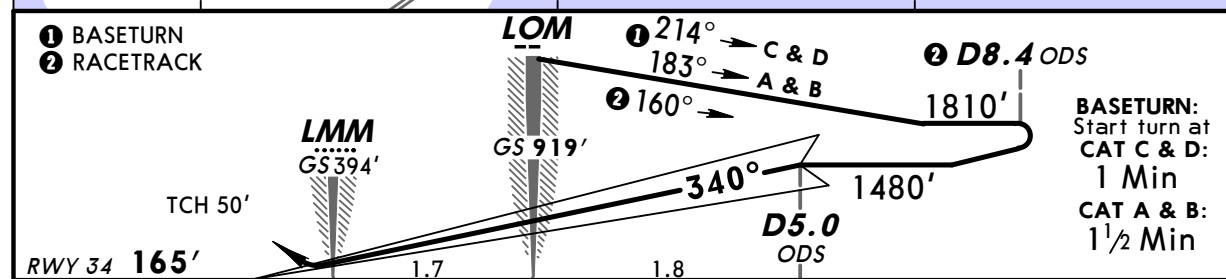
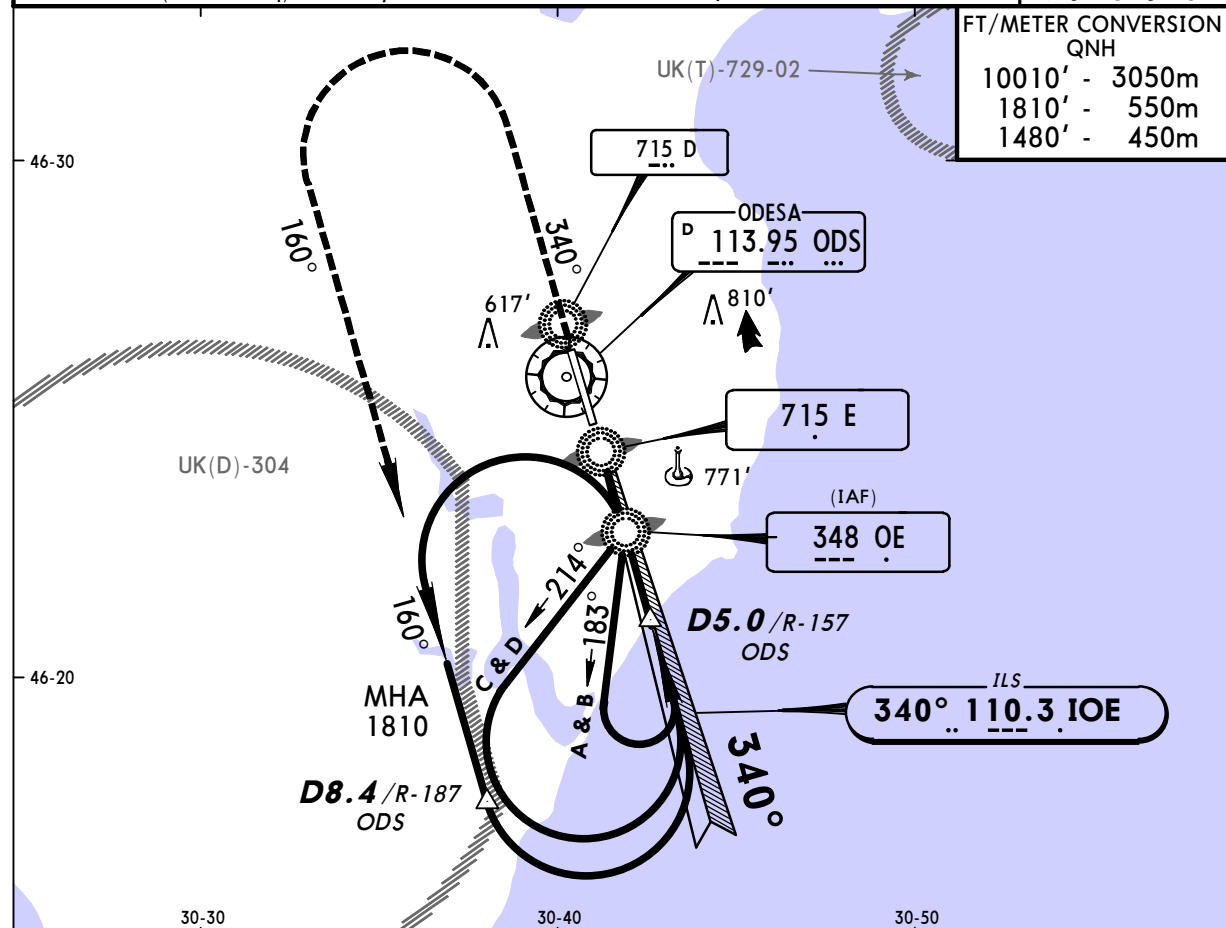
UK00/ODS
ODESA

JEPPESEN
12 FEB 10 (11-2)

ODESA, UKRAINE
ILS Rwy 34

ATIS 124.8		ODESA Radar (APP) 120.9 127.7		ODESA Tower 125.5		Ground 121.8	
LOC IOE 110.3	Final Apch Crs 340°	GS LOM 919' (754')	ILS DA(H) 365' (200')	Apt Elev 172'	1900'		
MISSED APCH: Climb on 340° to 1810', then turn LEFT on 160°, then according to chart.							
Alt Set: hPa (MM on req)		Rwy Elev: 6 hPa	Trans level: By ATC	Trans alt: 10010'			

FT/METER CONVERSION	
QNH	
10010'	- 3050m
1810'	- 550m
1480'	- 450m



	0	0.5	2.2				HIALS PAPI	1810' on 340° ↑
Gnd speed-Kts	70	90	100	120	140	160		
Gs 3.00°	377	485	539	647	755	862		

JAR-OPS

STRAIGHT-IN LANDING RWY 34

CIRCLE-TO-LAND 1

ILS		LOC		CIRCLE TO LAND	
DA(H) 365' (200')		(GS out)		Prohibited in sector R-020 to R-120 ODS	
FULL		ALS out		Max Kts.	MDA(H) VIS
A	RVR 550m	RVR 1000m	NOT AUTH	100	920' (755') 1500m
B				135	920' (755') 1600m
C				180	1020' (855') 2400m
D				205	1020' (855') 3600m

1 Circling height based on rwy 34 thresh elev of 165'.

CHANGES: Circling minimums.

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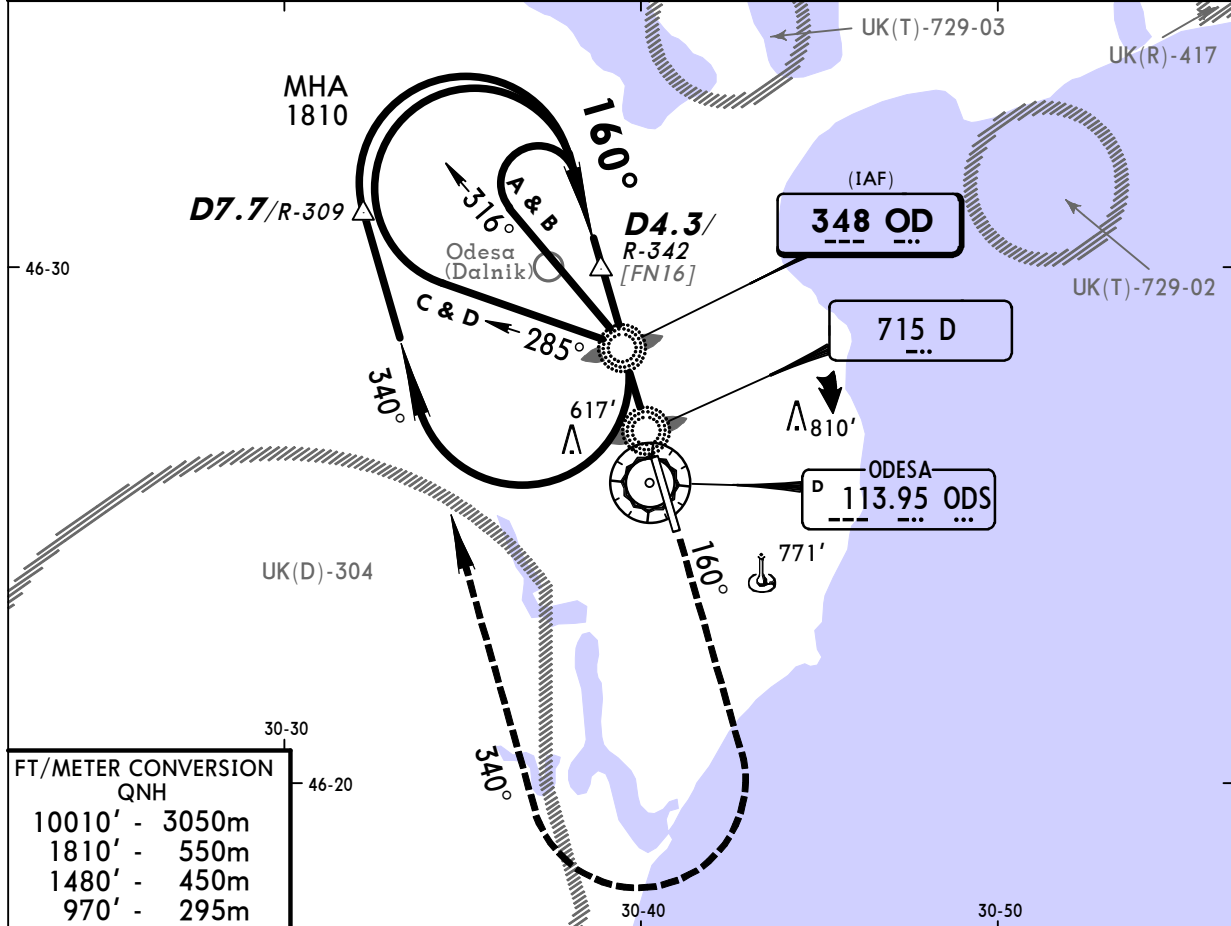
UK00/ODS
ODESA

JEPPESEN
12 FEB 10 **(16-1)**

ODESA, UKRAINE
NDB Rwy 16

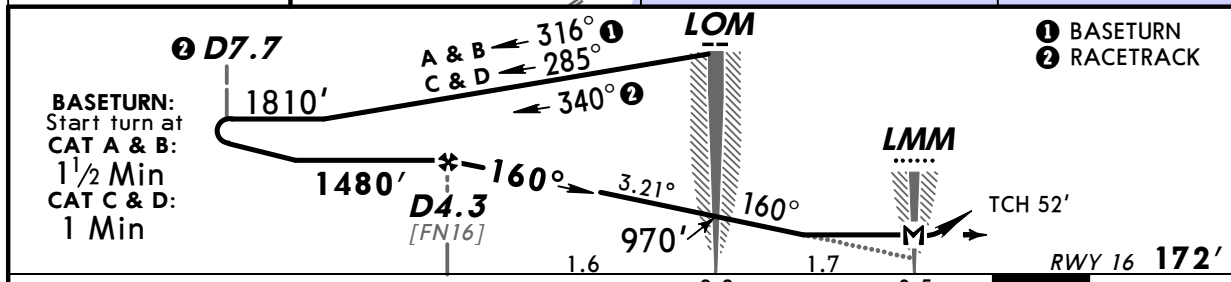
BRIEFING STRIP

ATIS		ODESA Approach		ODESA Precision	ODESA Tower	Ground
124.8		120.9	127.7	125.5	125.5	121.8
NDB OD 348	Final Apch Crs 160°	Minimum Alt D4.3 1480' (1308')	MDA(H) 680' (508')	Apt Elev 172' RWY 172'	1900' MSA ODS VOR	
MISSED APCH: Climb on 160° to 1810', then turn RIGHT on 340°, then according to chart.						
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'						



FT/METER CONVERSION
QNH

10010'	3050m
1810'	550m
1480'	450m
970'	295m



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI 1810' ↑ on 160°
Descent angle 3.21°	398	511	568	682	795	909	
MAP at LMM							

JAR-OPS		STRAIGHT-IN LANDING RWY 16		CIRCLE-TO-LAND	
		MDA(H) 680' (508')		Prohibited in sector R-020 to R-120	
		ALS out		Max Kts	
A	RVR 1000m	RVR 1500m		100	MDA(H) 920' (748') VIS 1500m
B	RVR 1200m			135	920' (748') 1600m
C		RVR 2000m	180	1020' (848') 2400m	
D	RVR 1600m		205	1020' (848') 3600m	

PANS OPS

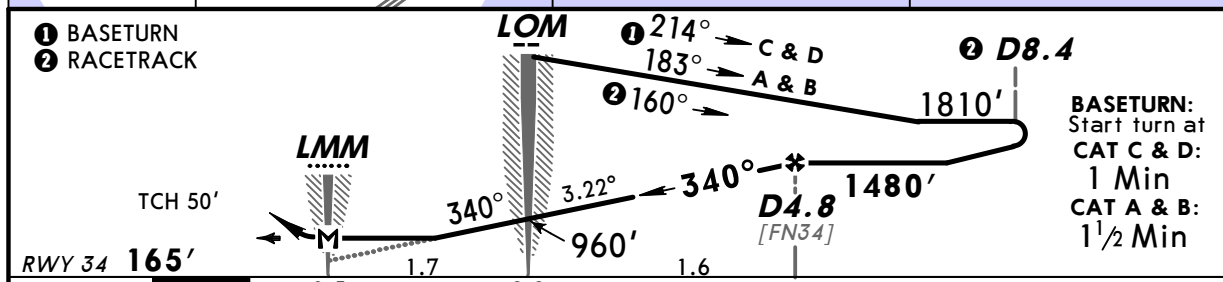
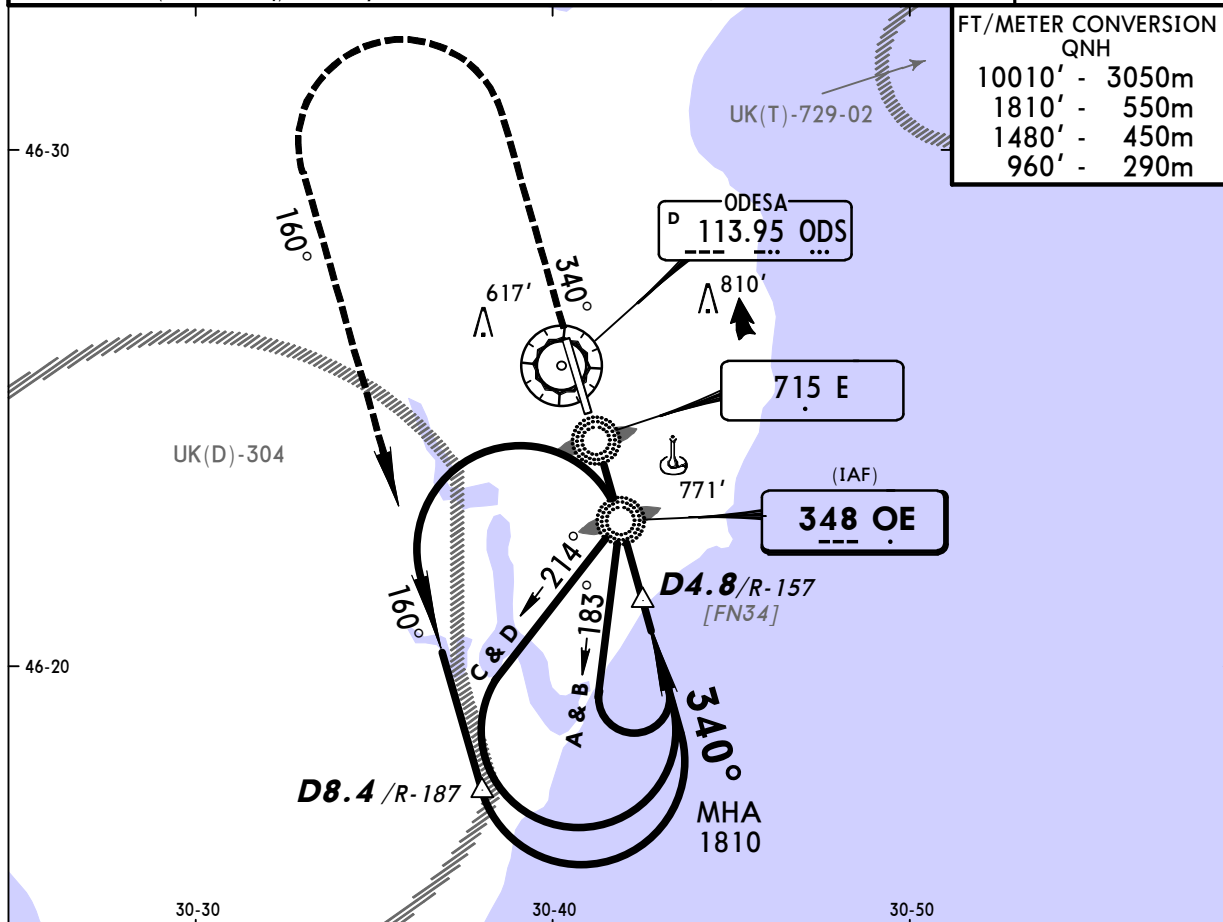
UK00/ODS
ODESA

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12 FEB 10 (16-2)

ODESA, UKRAINE
NDB Rwy 34

BRIEFING STRIP™

ATIS		ODESA Approach		ODESA Precision	ODESA Tower	Ground
124.8		120.9	127.7	125.5	125.5	121.8
NDB OE 348	Final Apch Crs 340°	Minimum Alt D4.8 1480' (1315')	MDA(H) 630' (465')	Apt Elev 172' RWY 165'		1900' MSA ODS VOR
MISSED APCH: Climb on 340° to 1810', then turn LEFT on 160°, then according to chart.						
Alt Set: hPa (MM on req)		Rwy Elev: 6 hPa	Trans level: By ATC	Trans alt: 10010'		



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	1810'	340°
Descent angle	3.22°	399	513	570	684	798			
MAP at LMM									

JAR-OPS STRAIGHT-IN LANDING RWY 34				CIRCLE-TO-LAND 1			
MDA(H) 630' (465')				Prohibited in sector R-020 to R-120			
		ALS out		Max Kts	MDA(H)	VIS	
A	RVR 1000m	RVR 1500m		100	920' (755')	1500m	
B	RVR 1200m			135	920' (755')	1600m	
C	RVR 1600m	RVR 2000m		180	1020' (855')	2400m	
D	RVR 1600m			205	1020' (855')	3600m	

1 Circling height based on rwy 34 thresh elev of 165'.

CHANGES: Minimums.

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PANS OPS