

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

No revision activity since Disc 15-2010

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

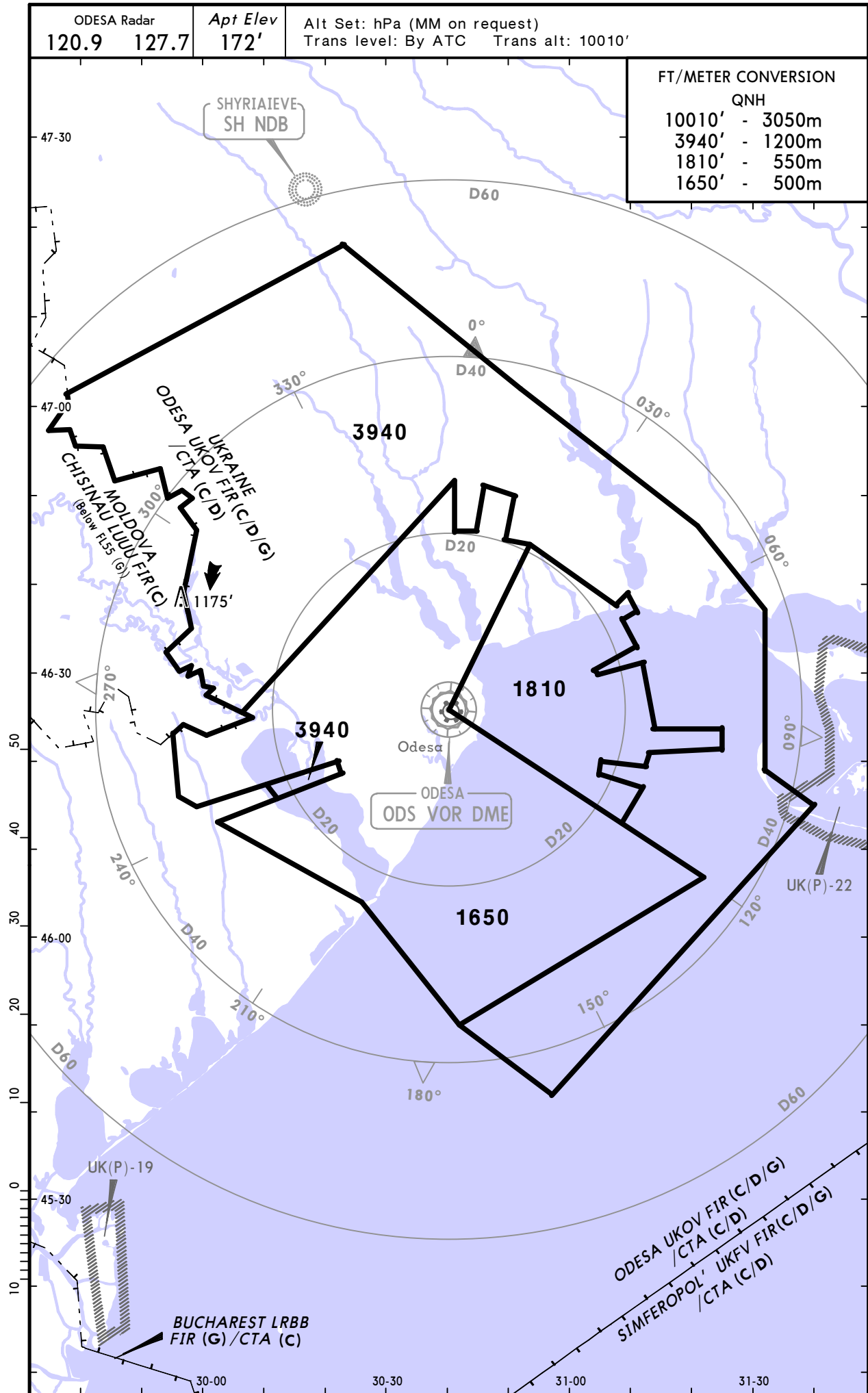
Communications InfoATIS **124.8**Odesa Tower **125.5**Odesa Ground Control **121.8**Odesa Radar Approach Control **127.7**Odesa Radar Approach Control **120.9****Notebook Info**

UK00/ODS
ODESA

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

ODESA, UKRAINE

RADAR MINIMUM ALTITUDES



CHANGES: Altitude conversion.

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ODESA

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26 OCT 07 **10-2**

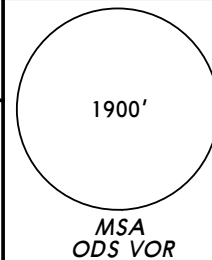
ODESA, UKRAINE

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 CHARLIE (ABRIS 1C) [ABR11C]
SHYRIAIEVE TWO CHARLIE (SH 2C)
RWY 16 ARRIVALS
FROM NORTH

SHYRIAIEVE
389 SH
N47 24.2 E030 16.8



160°
SH 2C
1810
58

ABRIS
N47 09.6 E030 40.1

178°
D43.8
356°
ABRIS 1C
1810
36

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

LOST COMMS ▼ LOST COMMS
► Proceed to OD. ◀
LOST COMMS ▼ LOST COMMS

**HOLDING OVER
OD**



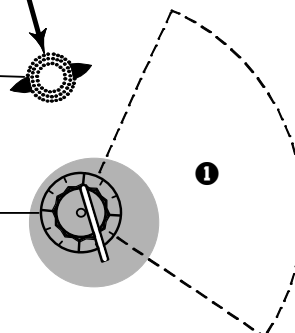
FT/METER CONVERSION
QNH
10010' - 3050m
3940' - 1200m
1810' - 550m

(IAF)
ODESA
***348 OD**
N46 28.4 E030 39.5

ODESA
P 113.95 ODS
N46 25.8 E030 40.3

D7.6 ODS
N46 33.2 E030 37.6
(ODS R-342)

5



STAR

ROUTING

ABRIS 1C

On 178° track to N46 33.2 E030 37.6 (ODS R-342/D7.6), turn LEFT for final approach.

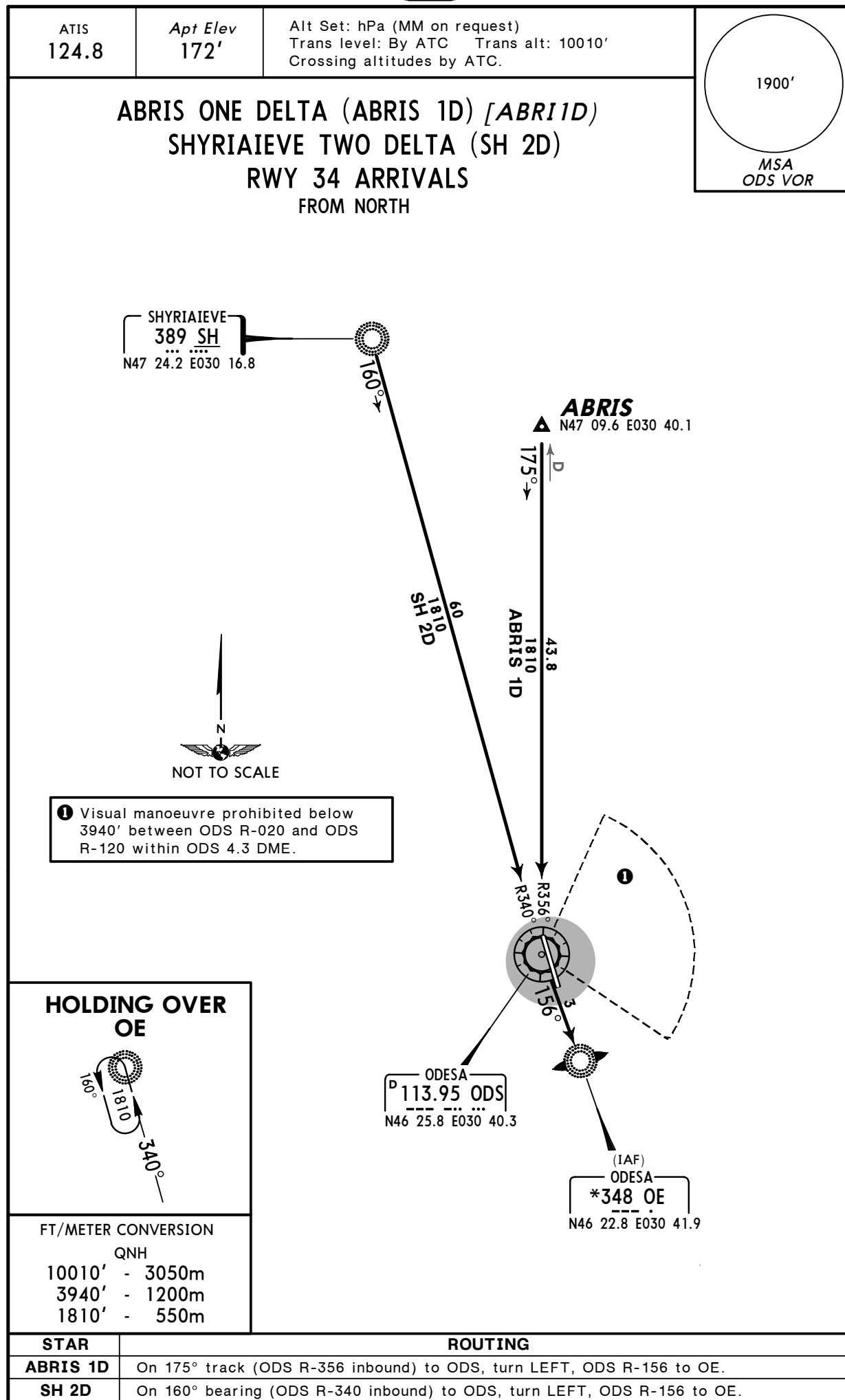
SH 2C

On 160° bearing towards OD for straight in approach.

UK00/ODS
ODESA

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

ODESA, UKRAINE
STAR



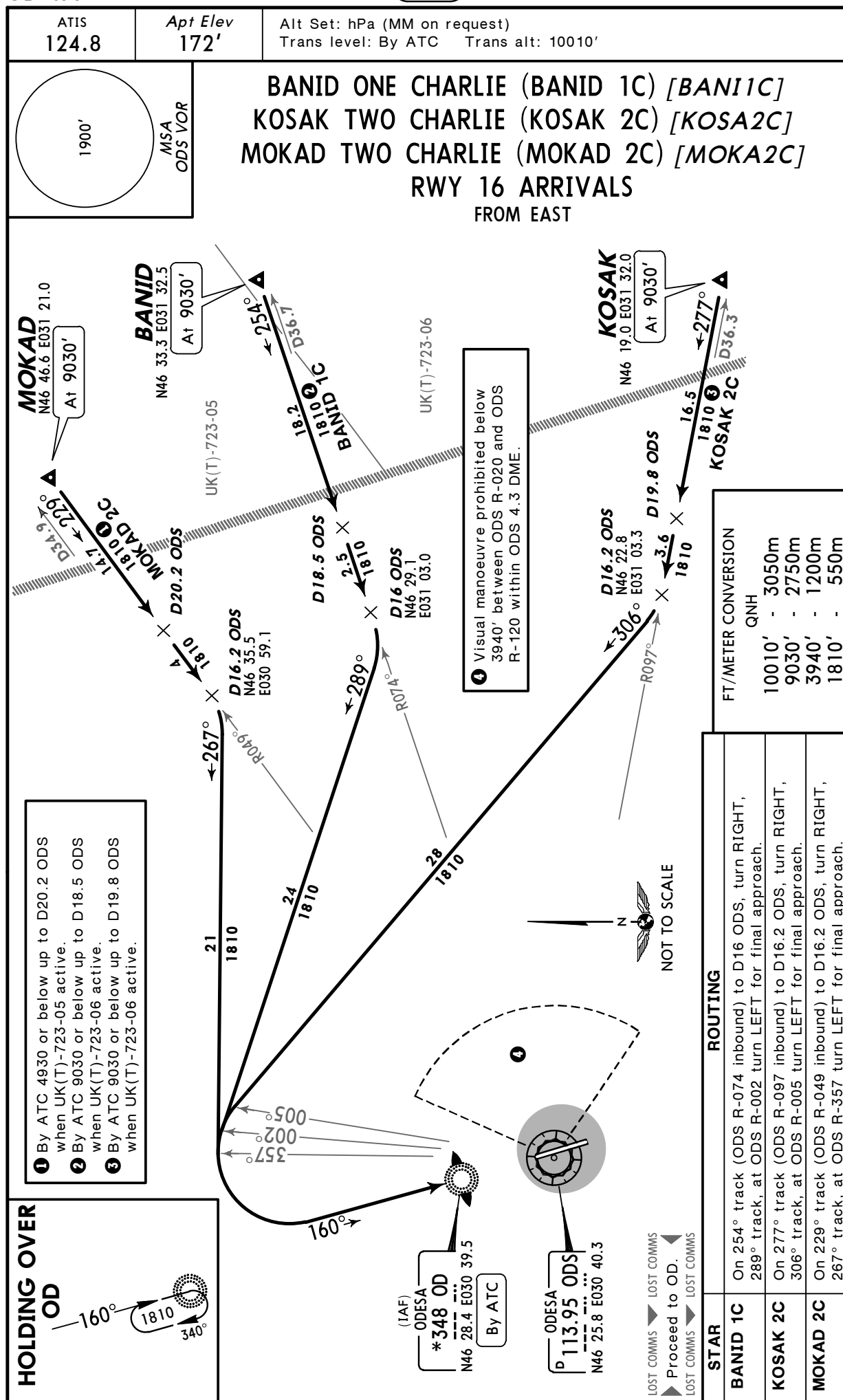
UK00/ODS
ODESA

JEPPesen

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

ODESA, UKRAINE

STAR



UK00/ODS
ODESA

26 OCT 07 (10-2C)

ODESA, UKRAINE

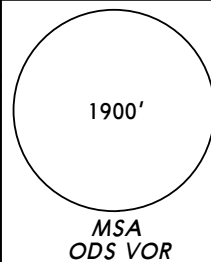
STAR

ATIS
124.8

Apt Elev
172'

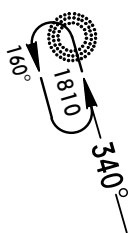
Alt Set: hPa (MM on request)
Trans level: By ATC Trans alt: 10010'

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



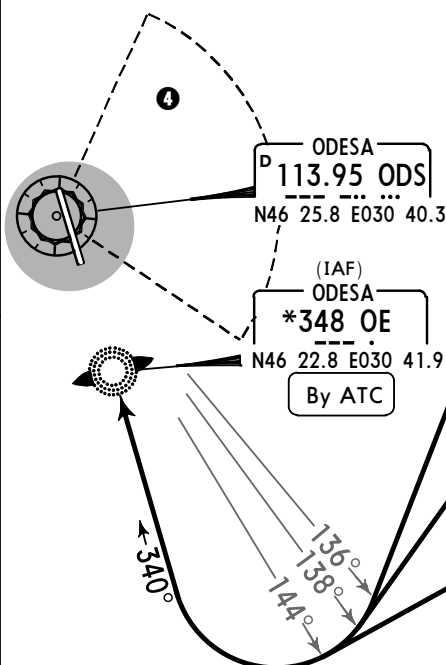
MOKAD
N46 46.6 E031 21.0
At 9030'

HOLDING OVER OE



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

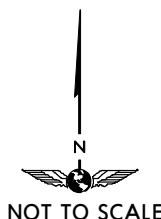
LOST COMMS ▼ LOST COMMS
 ► Proceed to OE. ◀
 LOST COMMS ▼ LOST COMMS



FT/METER CONVERSION

QNH

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



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

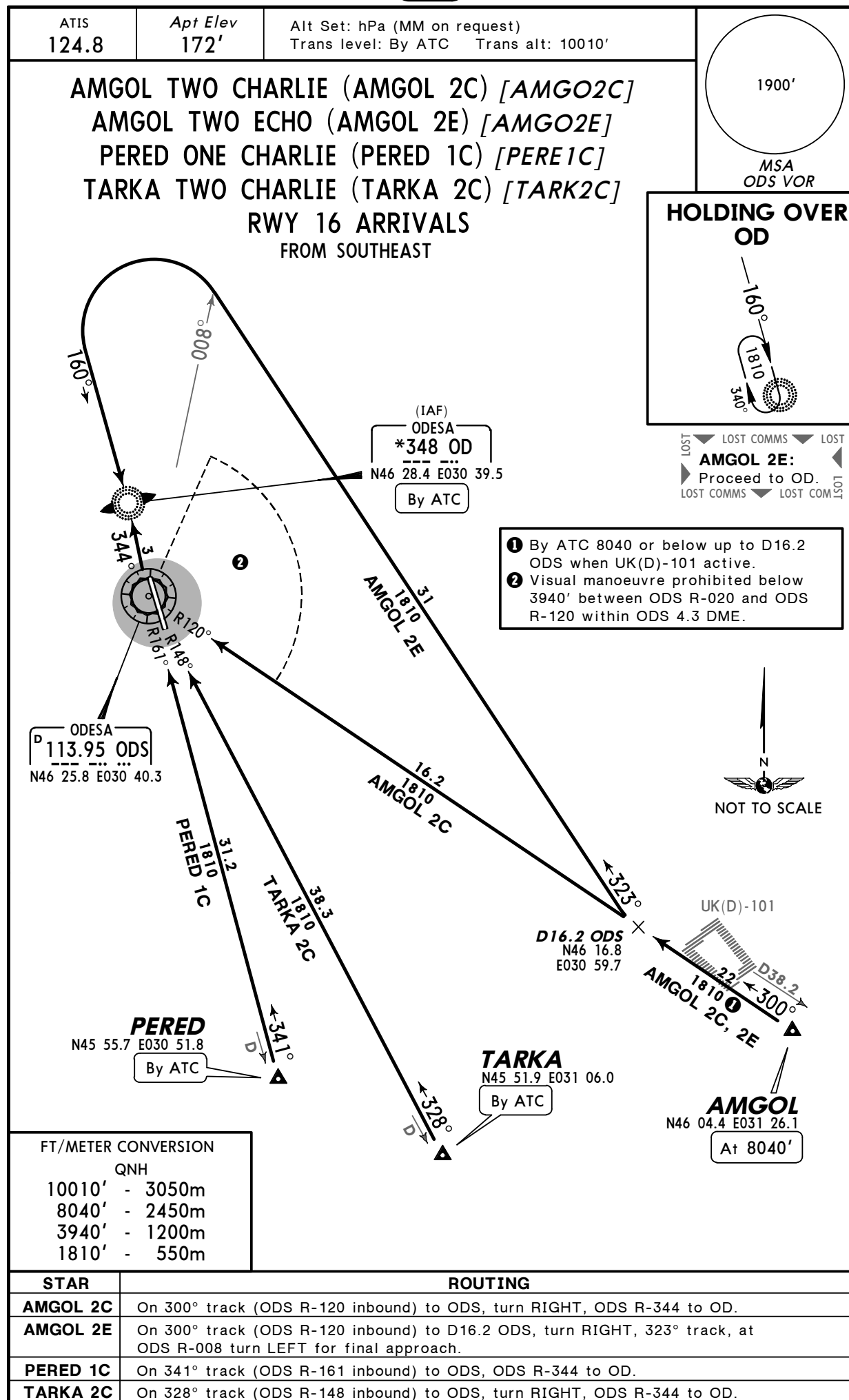
CHANGES: Altitude conversion.

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UK00/ODS
ODESA

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

ODESA, UKRAINE
STAR



UK00/ODS
ODESA

JEPPESSEN

26 OCT 07 **10-2E**

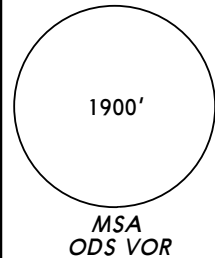
ODESA, UKRAINE

STAR

ATIS
124.8

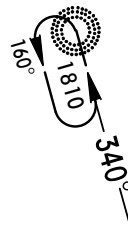
Apt Elev
172'

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



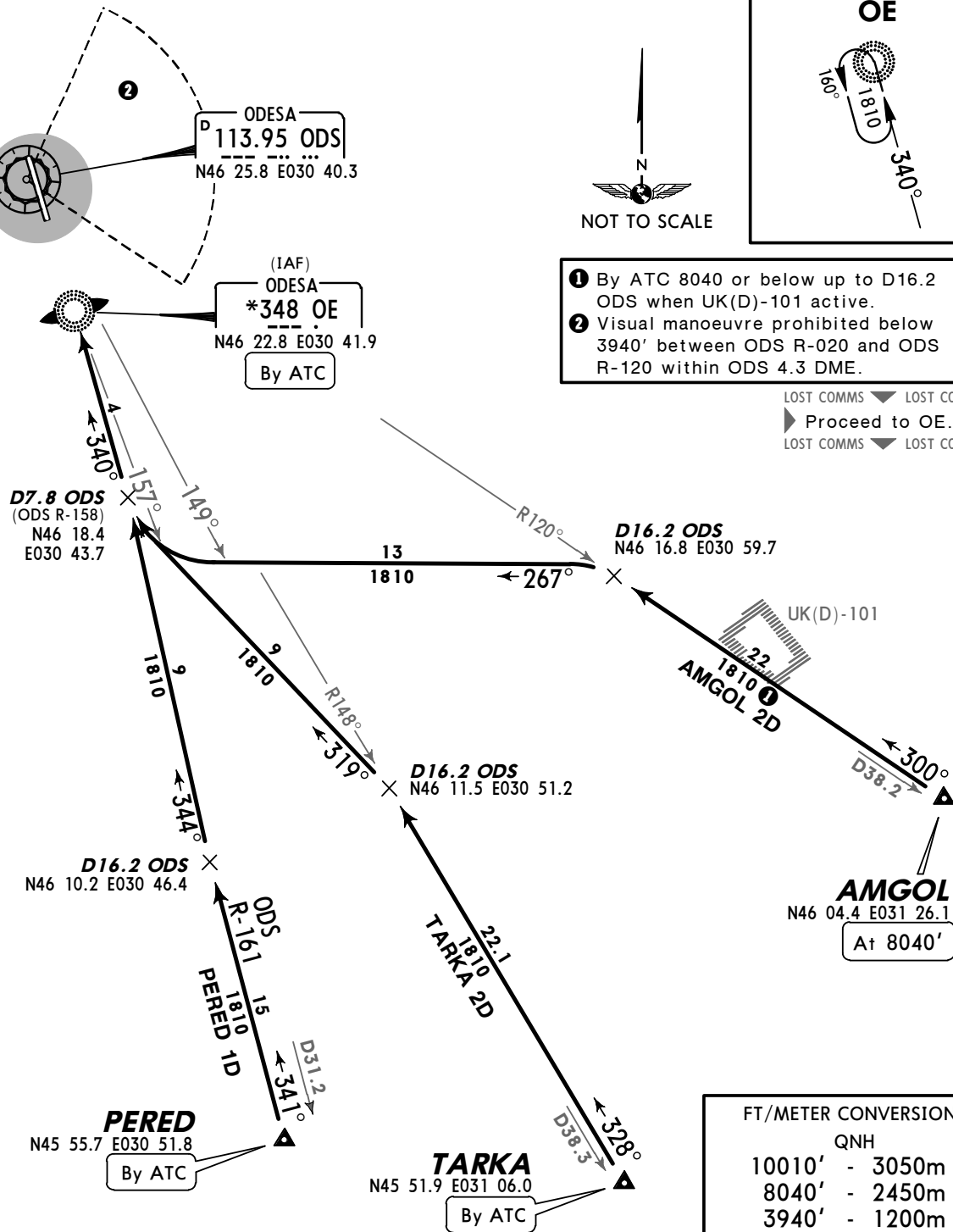
AMGOL TWO DELTA (AMGOL 2D) [AMGO2D]
PERED ONE DELTA (PERED 1D) [PERE1D]
TARKA TWO DELTA (TARKA 2D) [TARK2D]
RWY 34 ARRIVALS
FROM SOUTHEAST

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



FT/METER CONVERSION	
QNH	
10010'	- 3050m
8040'	- 2450m
3940'	- 1200m
1810'	- 550m

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.

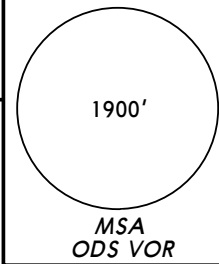
UK00/ODS
ODESA

JEPPESSEN

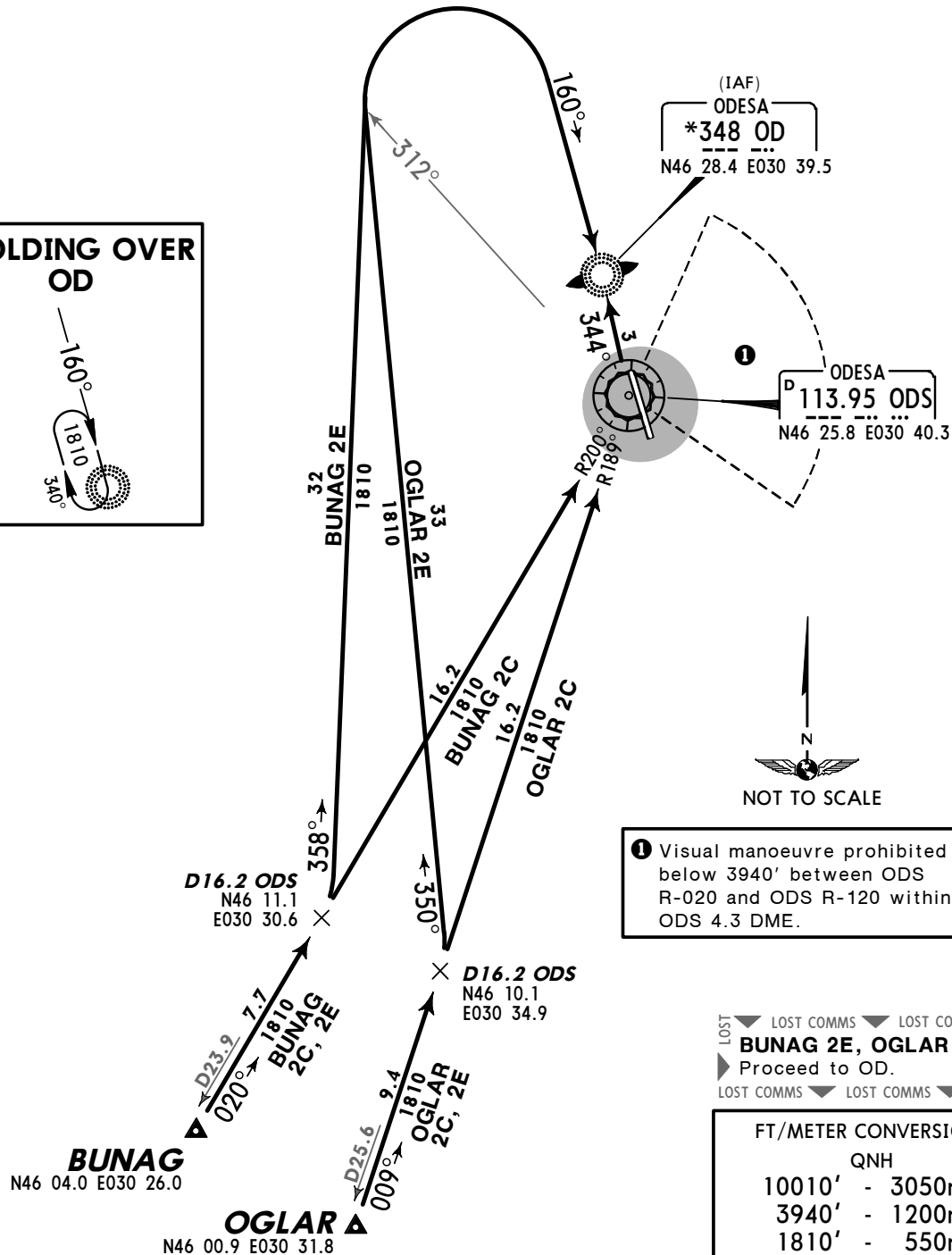
26 OCT 07 (10-2F)

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
OD

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)**

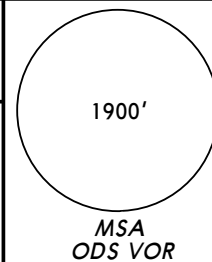
ODESA, UKRAINE

STAR

ATIS
124.8

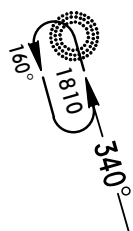
Apt Elev
172'

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



BUNAG TWO DELTA (BUNAG 2D) [BUNA2D]
OGLAR TWO DELTA (OGLAR 2D) [OGLA2D]
RWY 34 ARRIVALS
FROM SOUTHWEST

**HOLDING OVER
OE**

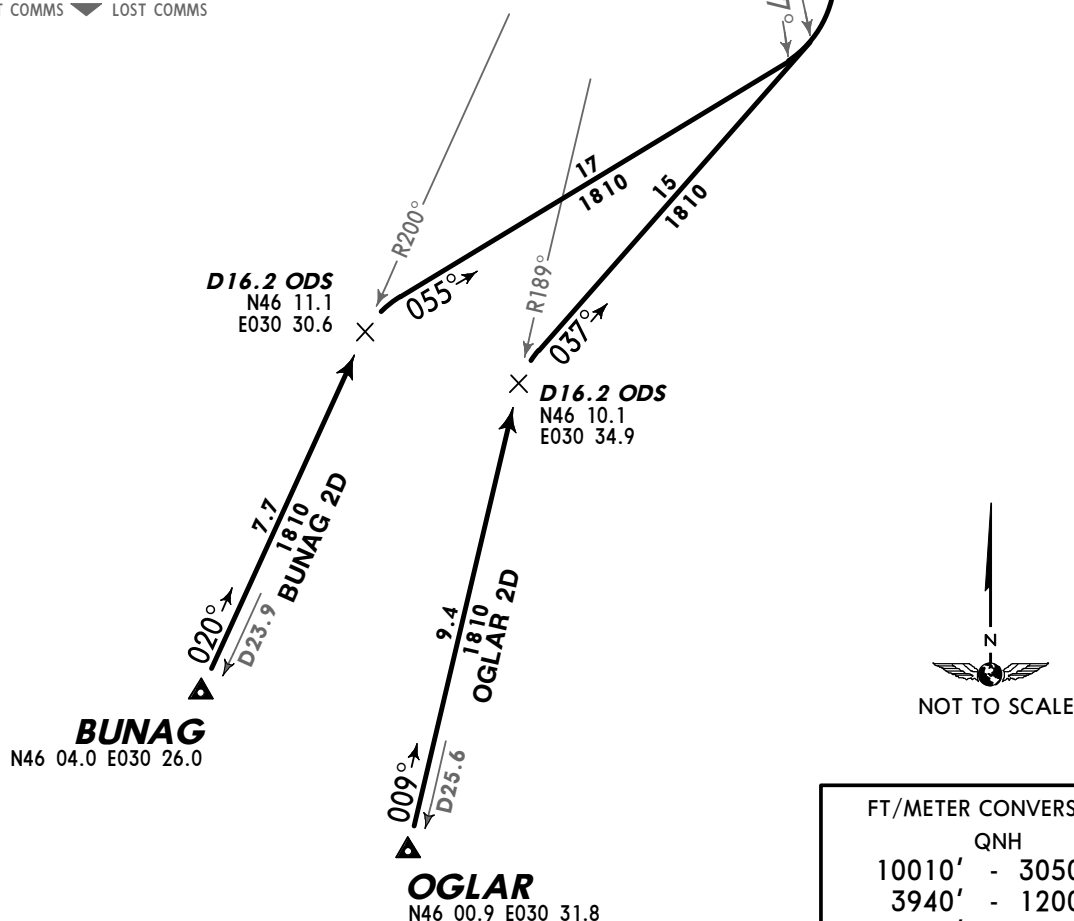


ODESA
D 113.95 ODS
N46 25.8 E030 40.3

(IAF)
ODESA
*348 OE
N46 22.8 E030 41.9

① 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



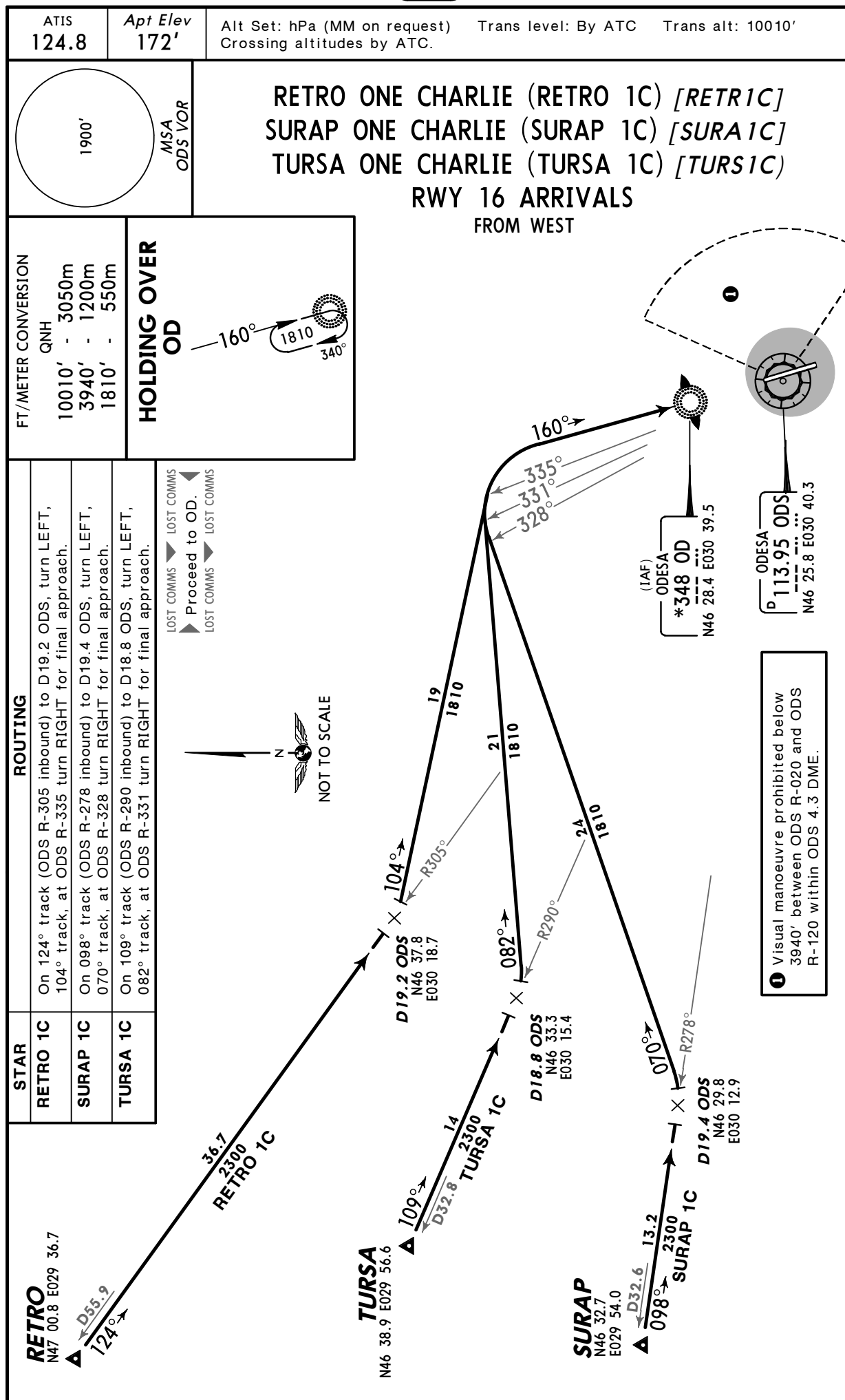
FT/METER CONVERSION	
QNH	
10010'	- 3050m
3940'	- 1200m
1810'	- 550m

STAR	ROUTING
BUNAG 2D	On 020° track (ODS R-200 inbound) to D16.2 ODS, turn RIGHT, 055° track, at ODS R-167 turn LEFT for final approach.
OGLAR 2D	On 009° track (ODS R-189 inbound) to D16.2 ODS, turn RIGHT, 037° track, at ODS R-164 turn LEFT for final approach.

UK00/ODS
ODESA

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

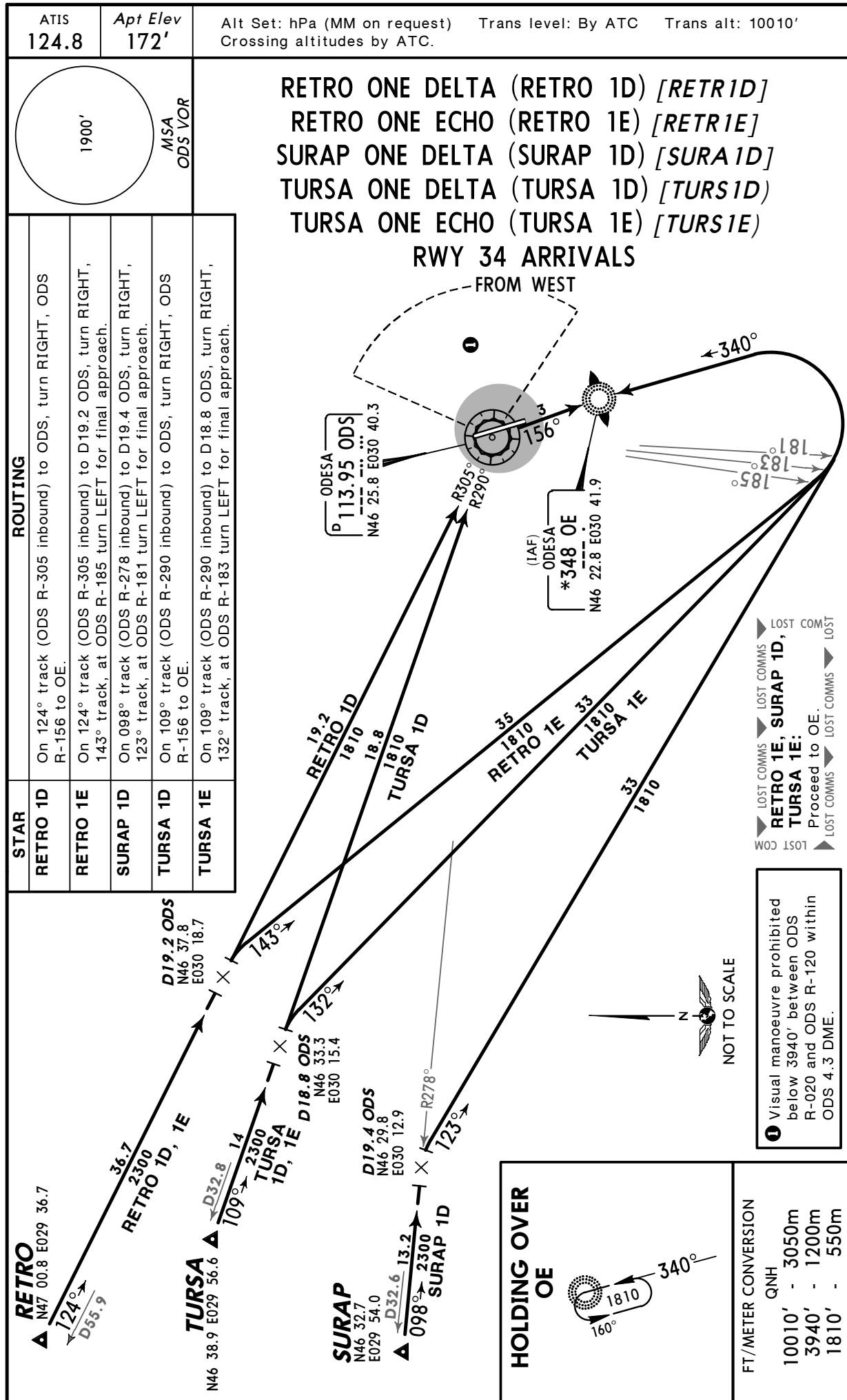
ODESA, UKRAINE
STAR



UK00/ODS
ODESA

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

ODESA, UKRAINE
STAR



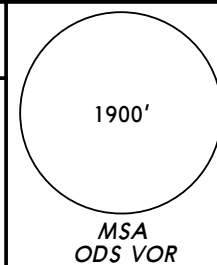
UK00/ODS
ODESA

JEPPESSEN
26 OCT 07 **10-3**

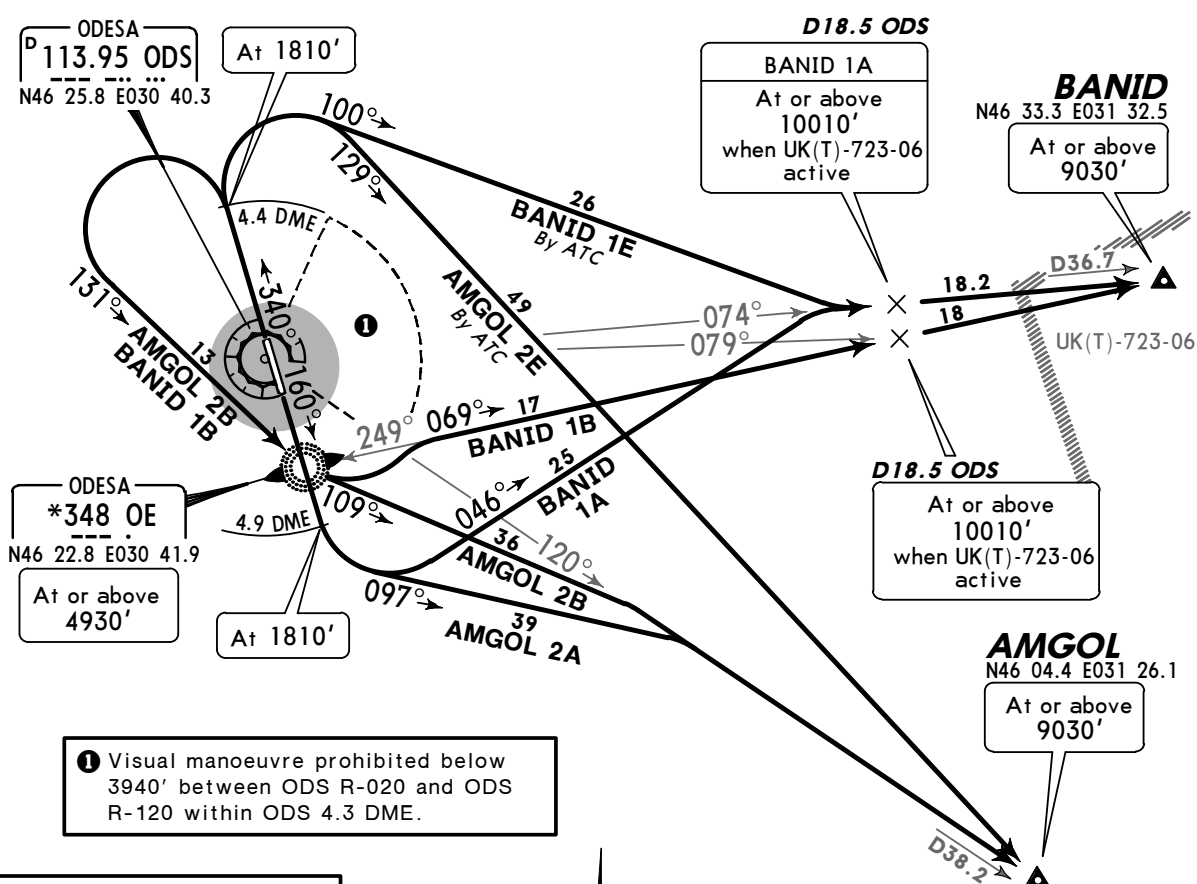
ODESA, UKRAINE
SID

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.

UK00/ODS
ODESA**JEPPESSEN**
26 OCT 07 **(10-3A)****ODESA, UKRAINE**
SIDApt Elev
172'

Trans level: By ATC Trans alt: 10010'

BULAN TWO ALFA
(BULAN 2A) [BULA2A]
BULAN TWO BRAVO
(BULAN 2B) [BULA2B]
BULAN TWO CHARLIE
(BULAN 2C) [BULA2C]
BUNAG TWO ALFA
(BUNAG 2A) [BUNA2A]
BUNAG TWO BRAVO
(BUNAG 2B) [BUNA2B]
RWYS 16, 34 DEPARTURES

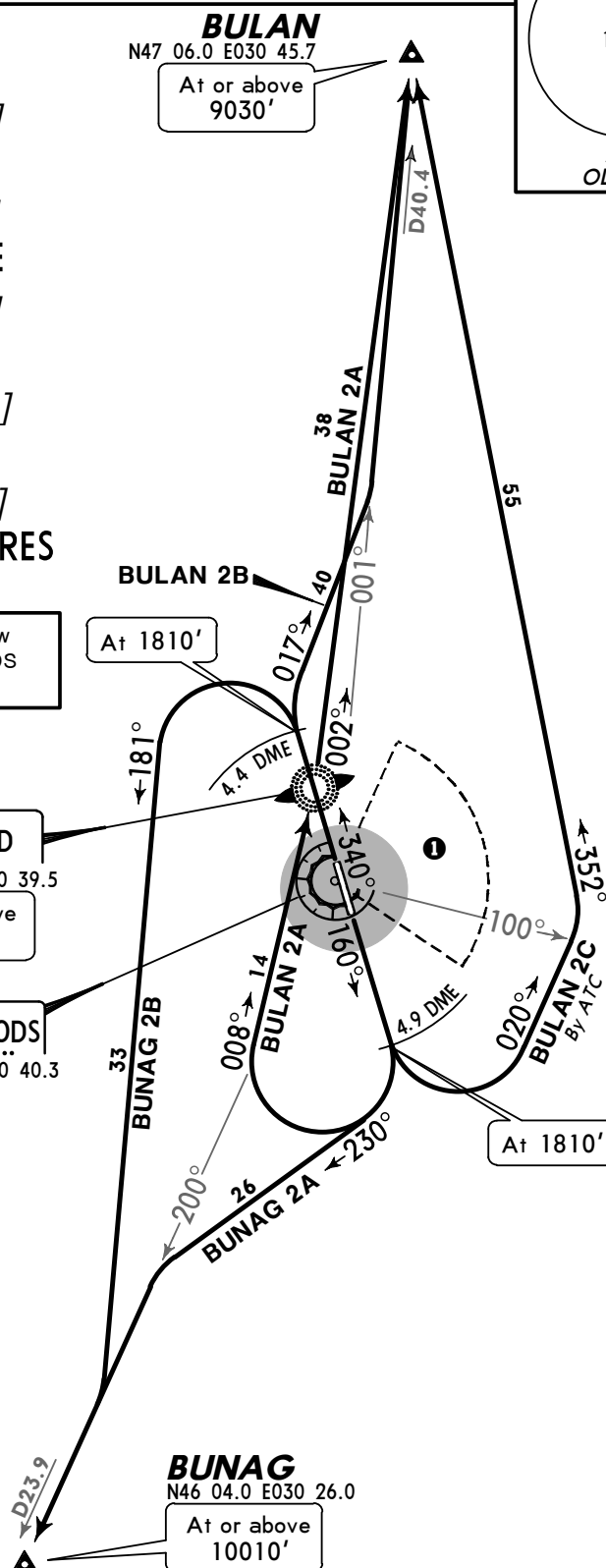
① Visual manoeuvre prohibited below
3940' between ODS R-020 and ODS
R-120 within ODS 4.3 DME.

ODESA
***348 OD**
N46 28.4 E030 39.5
At or above
4930'

ODESA
D 113.95 ODS
N46 25.8 E030 40.3

**FT/METER CONVERSION**

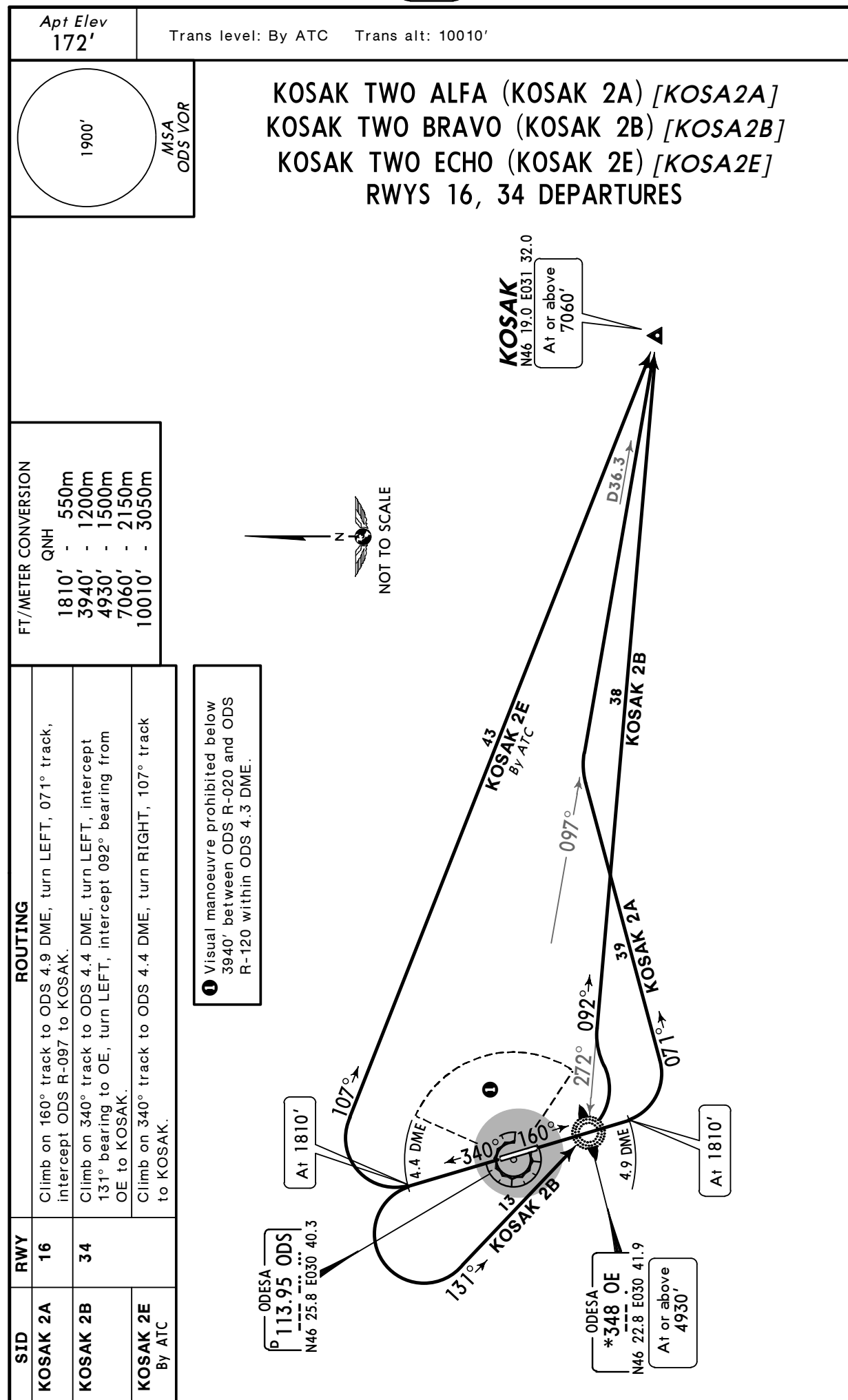
QNH	
1810'	- 550m
3940'	- 1200m
4930'	- 1500m
9030'	- 2750m
10010'	- 3050m



UK00/ODS
ODESA

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

ODESA, UKRAINE
SID



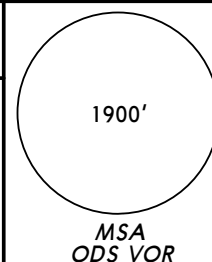
UK00/ODS
ODESA

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

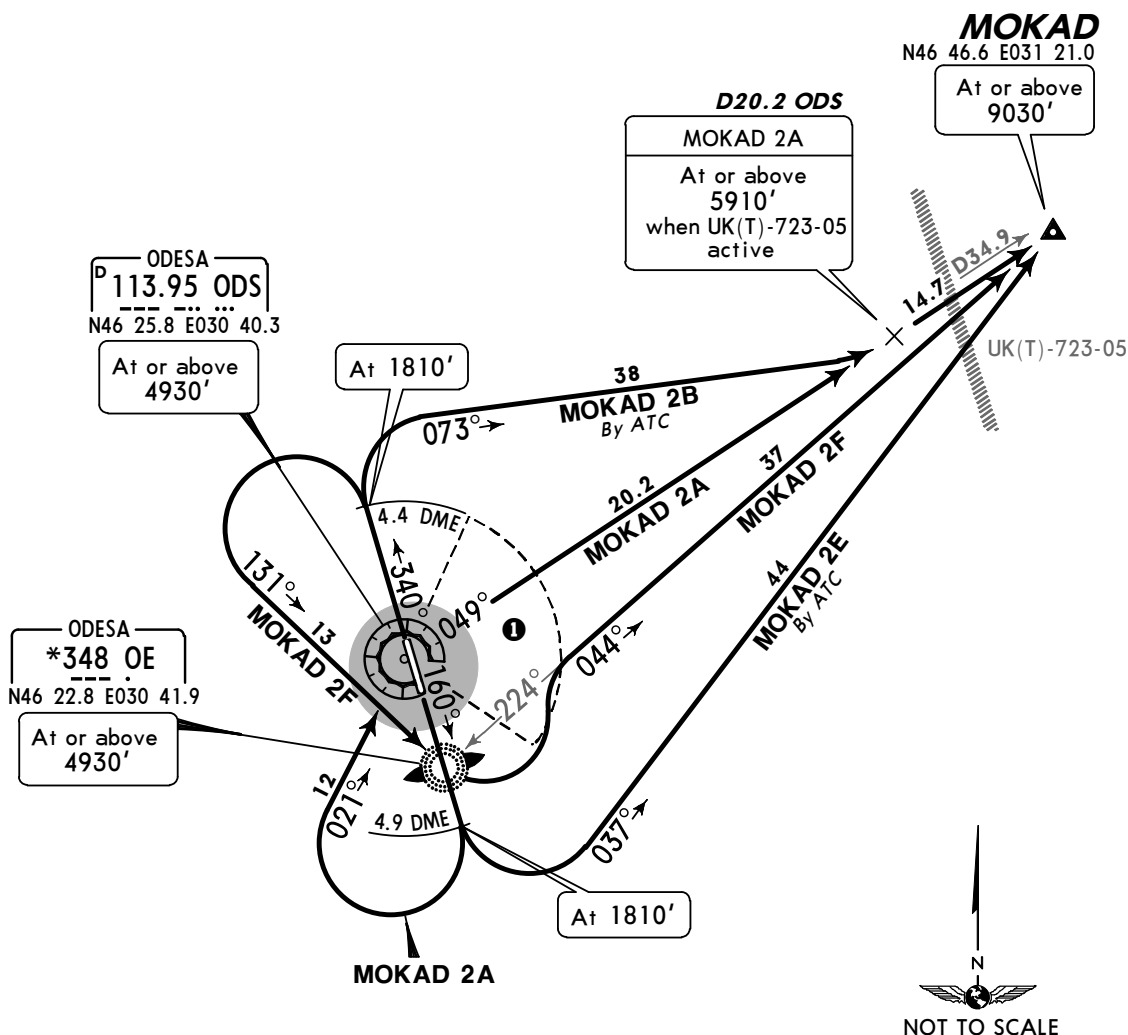
ODESA, UKRAINE
SID

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

	QNH
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.

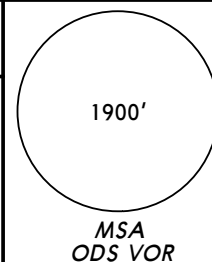
UK00/ODS
ODESA

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

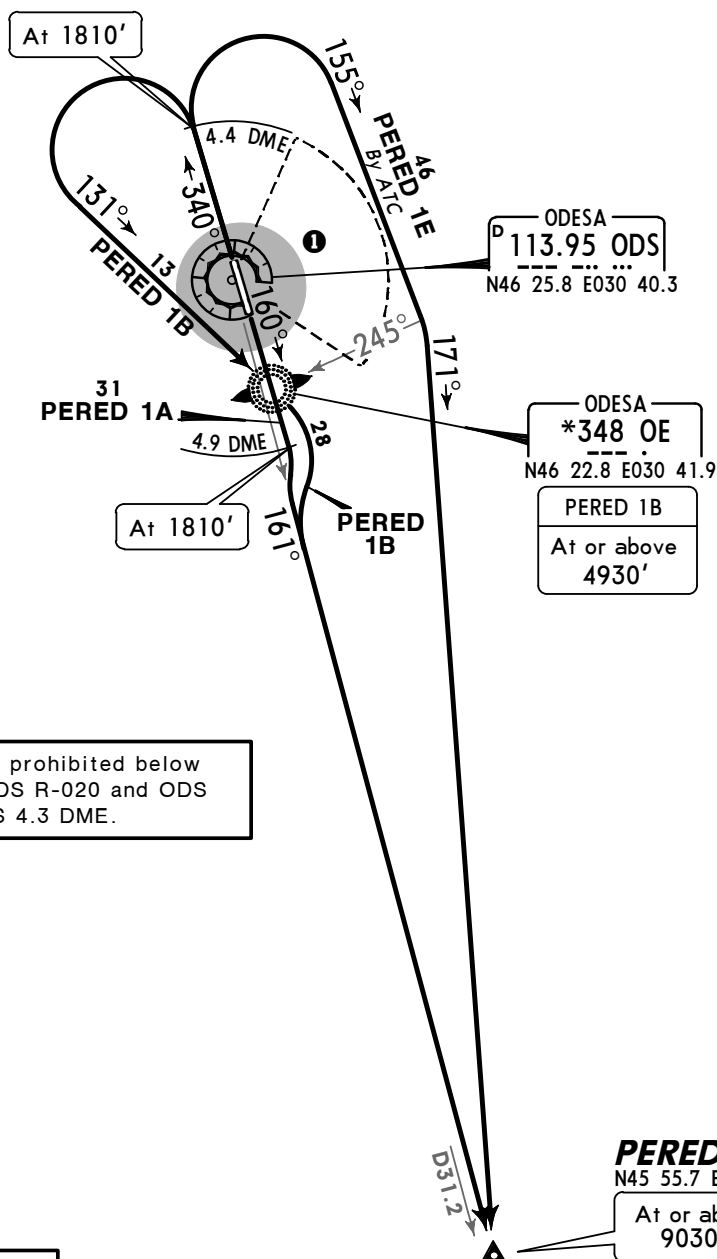
ODESA, UKRAINE
SID

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.

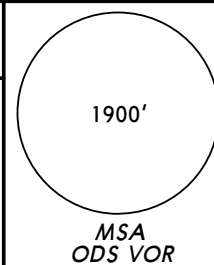
UK00/ODS
ODESA

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

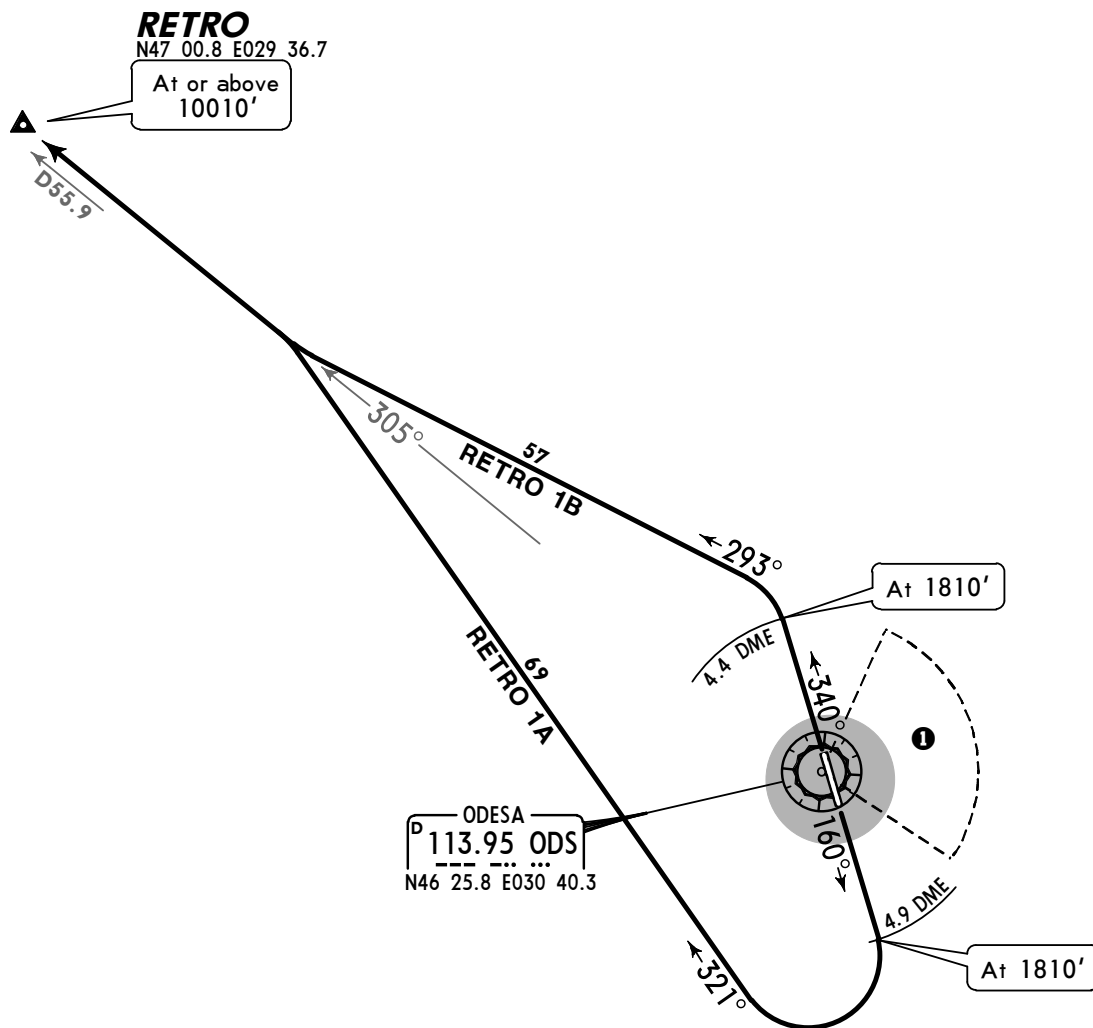
ODESA, UKRAINE
SID

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

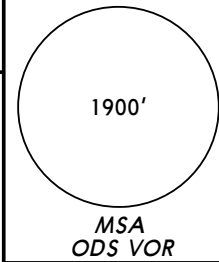
SID	RWY	ROUTING
RETRO 1A	16	Climb on 160° track to ODS 4.9 DME, turn RIGHT, 321° track, intercept ODS R-305 to RETRO.
RETRO 1B	34	Climb on 340° track to ODS 4.4 DME, turn LEFT, 293° track, intercept ODS R-305 to RETRO.

UK00/ODS
ODESA
JEPPESSEN
 26 OCT 07 **(10-3F)**
ODESA, UKRAINE
SID

 Apt Elev
 172'

Trans level: By ATC Trans alt: 10010'

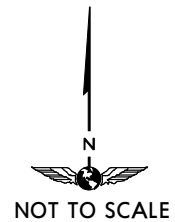
SHYRIAIEVE TWO ALFA (SH 2A)
 SHYRIAIEVE TWO BRAVO (SH 2B)
 SHYRIAIEVE TWO ECHO (SH 2E)
 SURAP ONE ALFA (SURAP 1A) [SURA1A]
 SURAP ONE BRAVO (SURAP 1B) [SURA1B]
 RWYS 16, 34 DEPARTURES



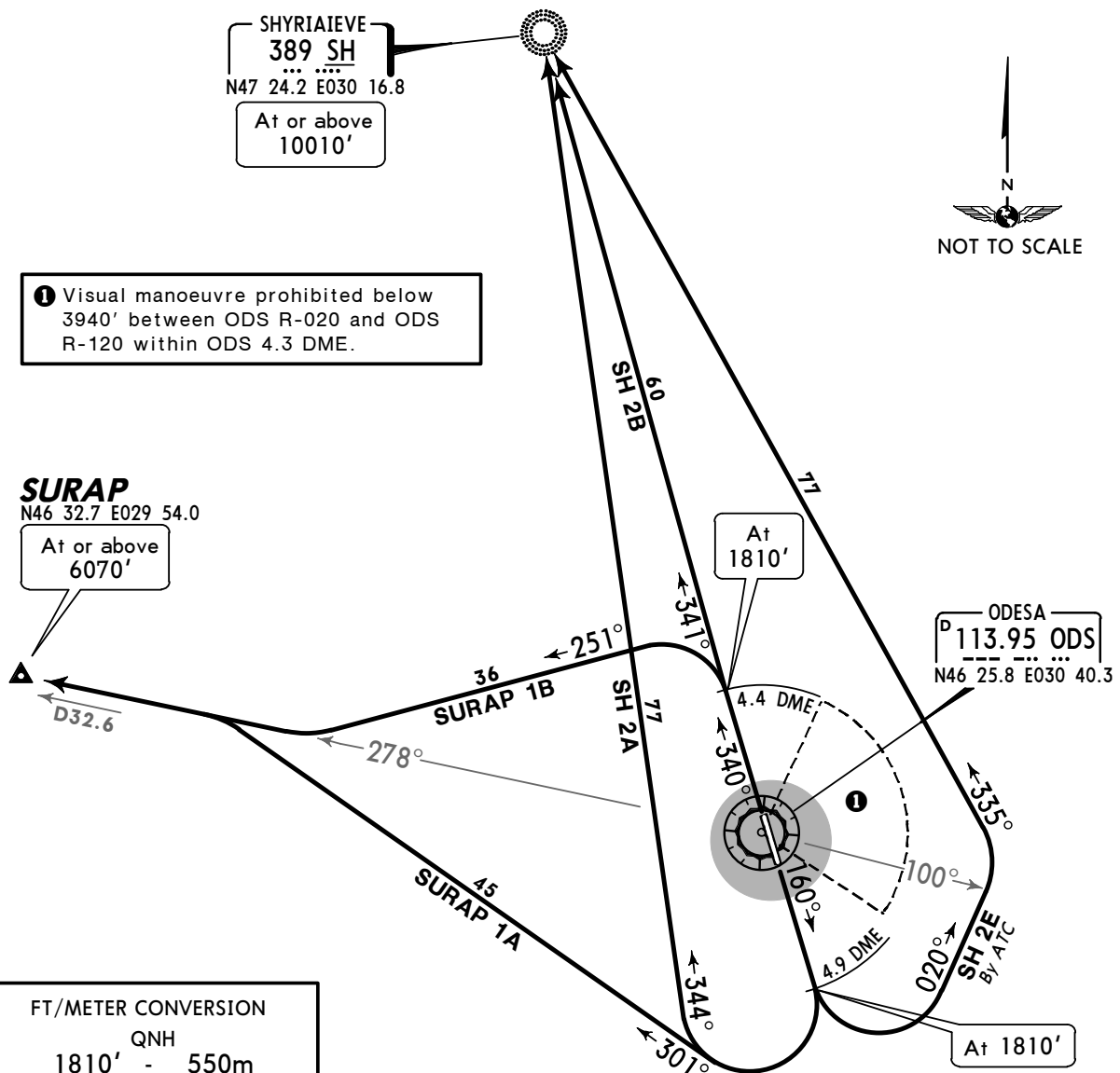
SHYRIAIEVE
 389 SH

 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.

CHANGES: Altitude conversion.

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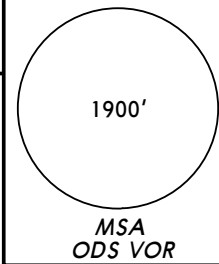
UK00/ODS
ODESAJEPPESSEN
26 OCT 07 (10-3G)

ODESA, UKRAINE

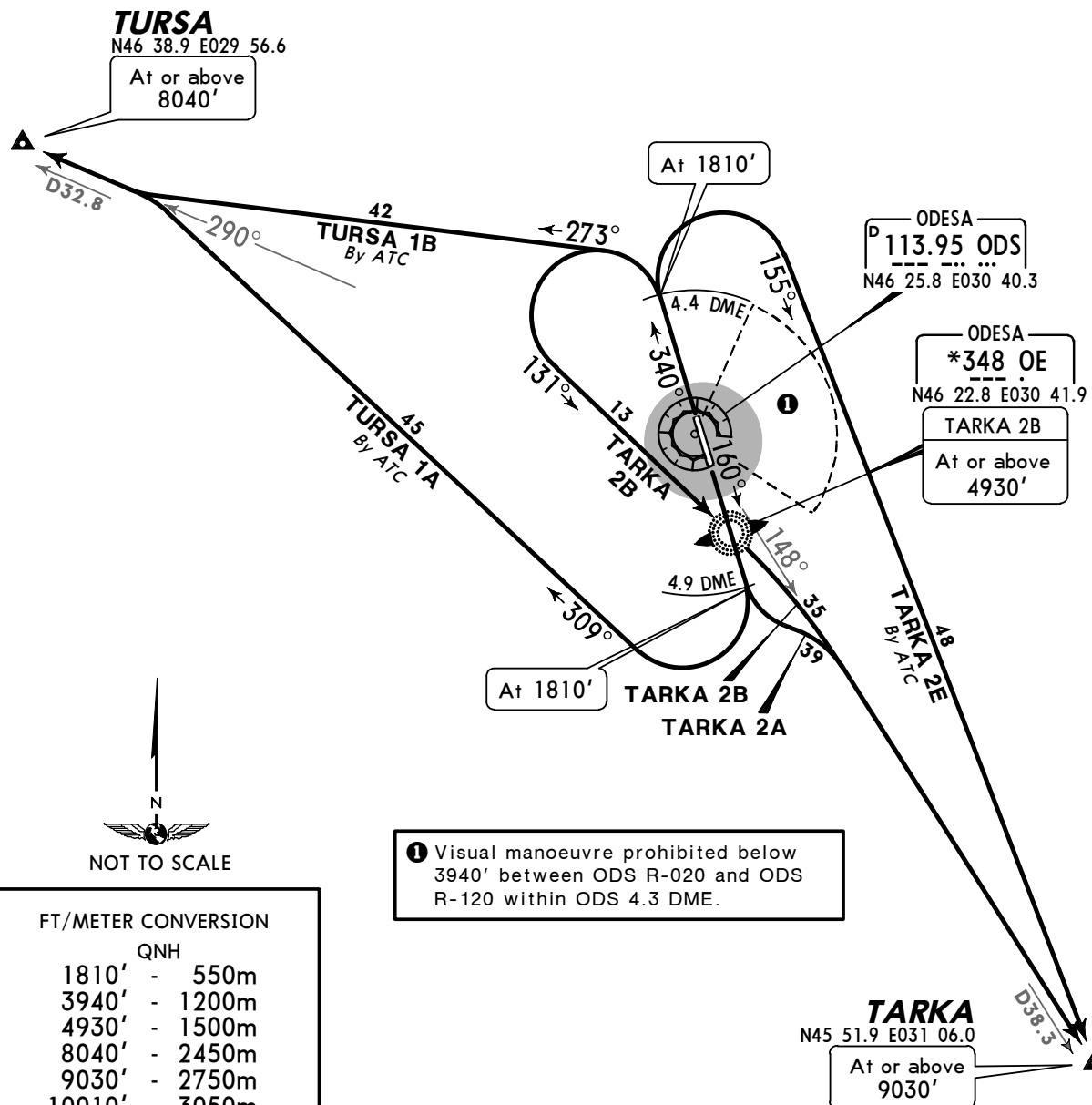
SID

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

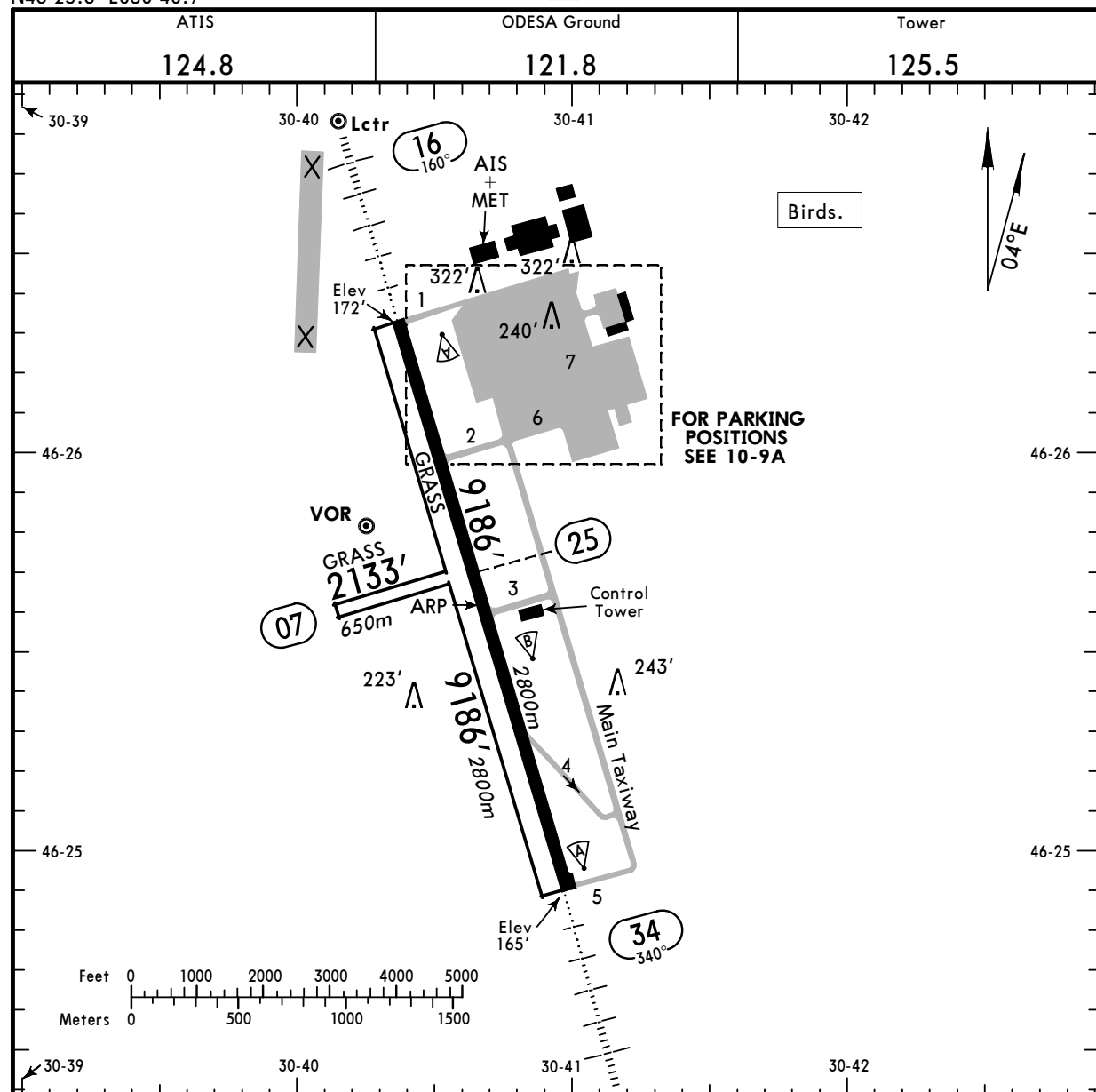
Apt Elev **172'**
N46 25.6 E030 40.7

JEPPESEN

13 JUN 08 **(10-9)**

ODESA, UKRAINE

ODESA



ADDITIONAL RUNWAY INFORMATION

			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

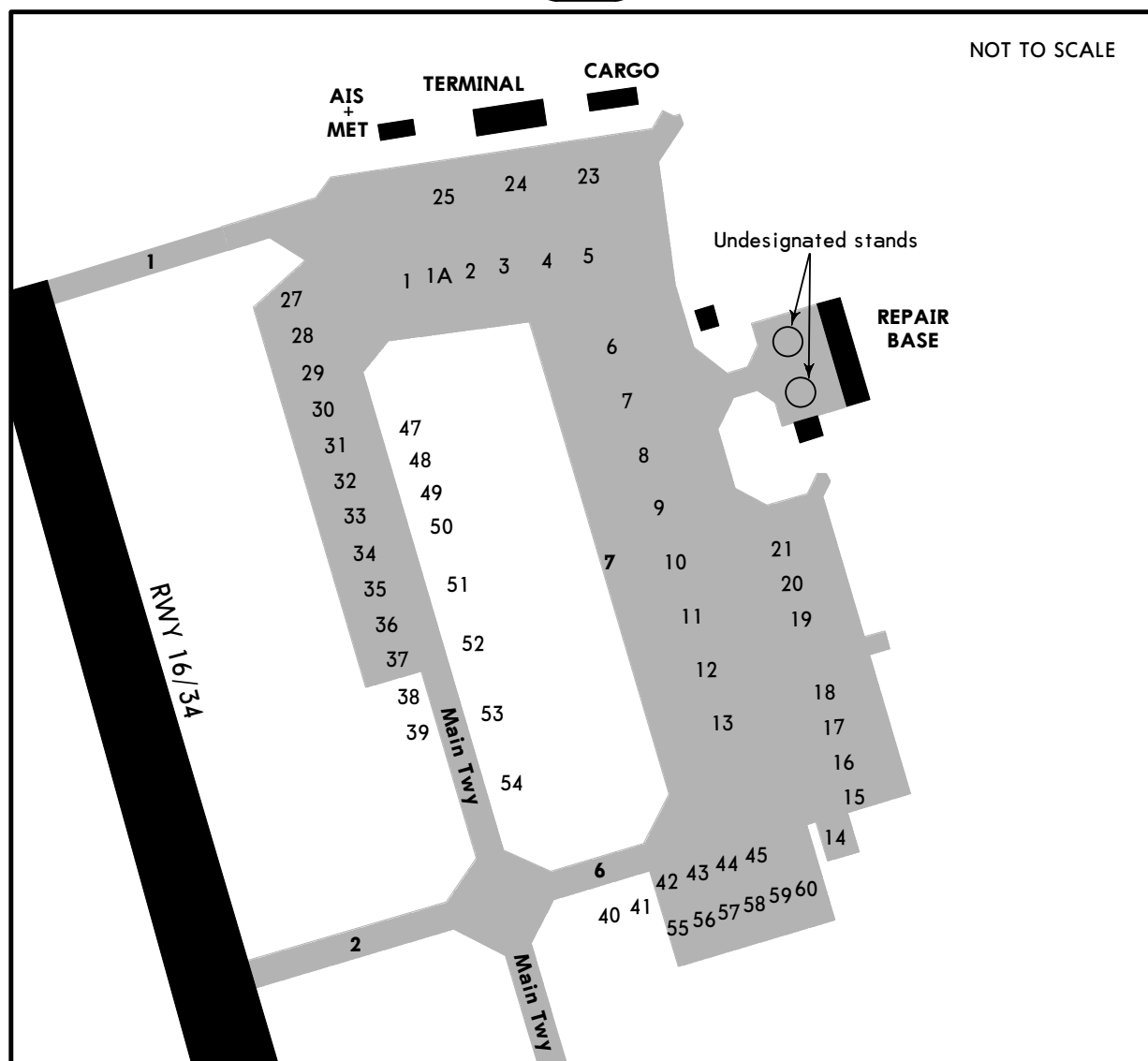
	All Rwys		
	LVP must be in force		
	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A			
B	250m	400m	500m
C			
D	300m		

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

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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.

UK00/ODS


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		

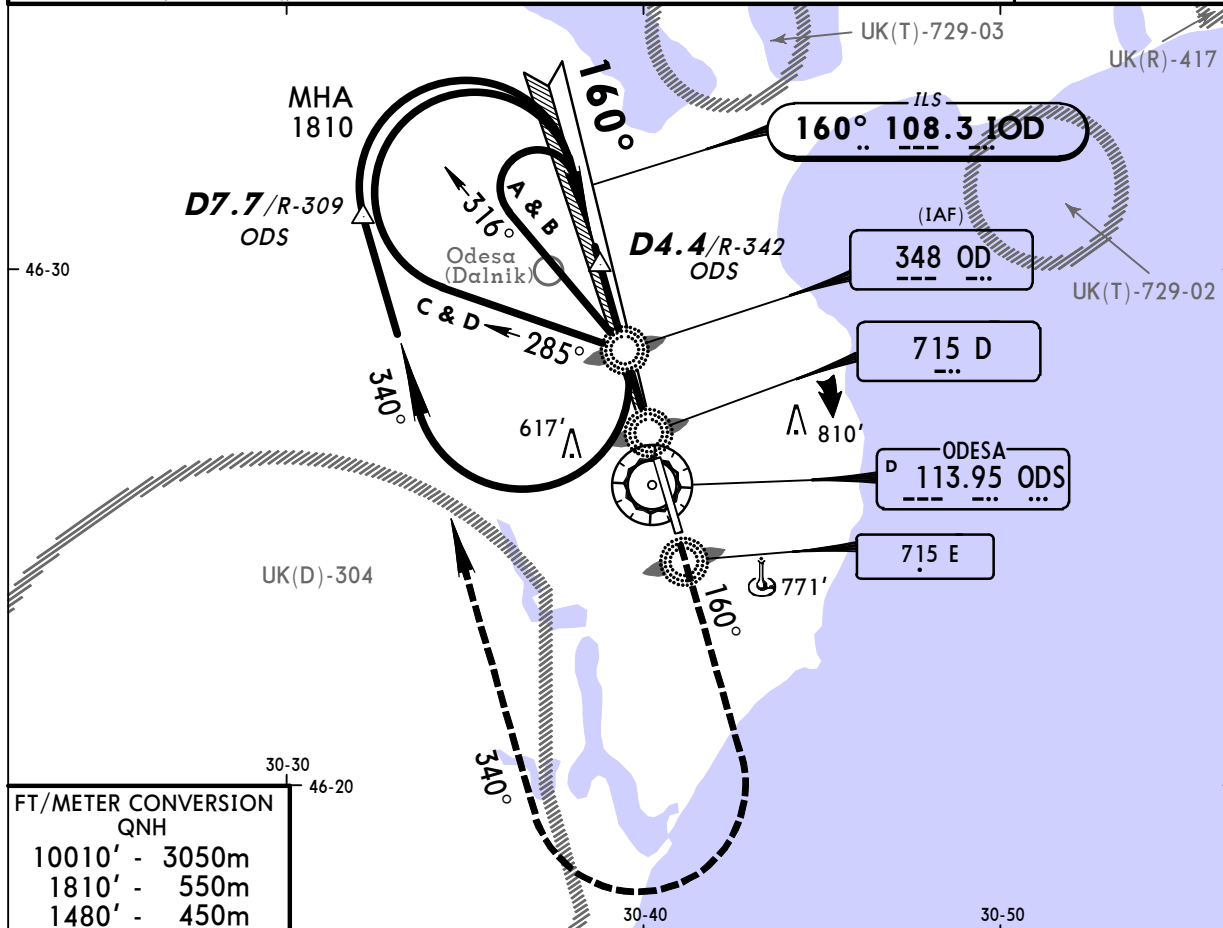
UK00/ODS
ODESA

JEPPESEN
12 FEB 10 **(11-1)**

ODESA, UKRAINE
ILS Rwy 16

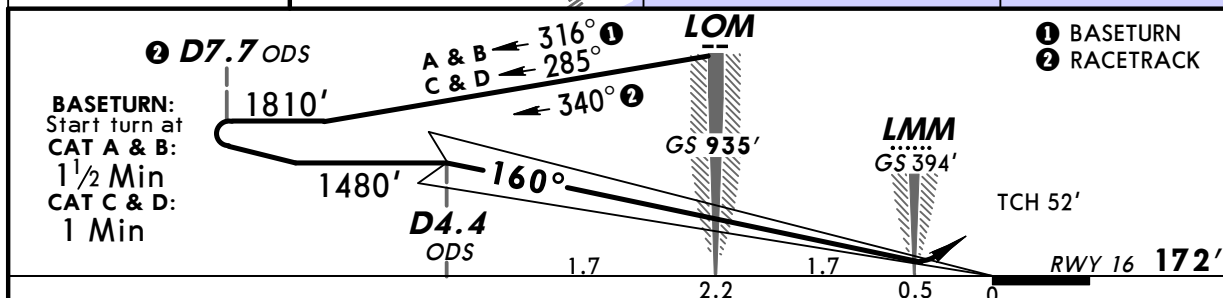
BRIEFING STRIP

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'	1900' MSA ODS VOR		
RWY 172'							
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



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI 1810' ↑ on 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				100	920' (748') 1500m
B				135	920' (748') 1600m
C	RVR 550m			180	1020' (848') 2400m
D	RVR 1000m	NOT AUTH		205	1020' (848') 3600m

PANS OPS

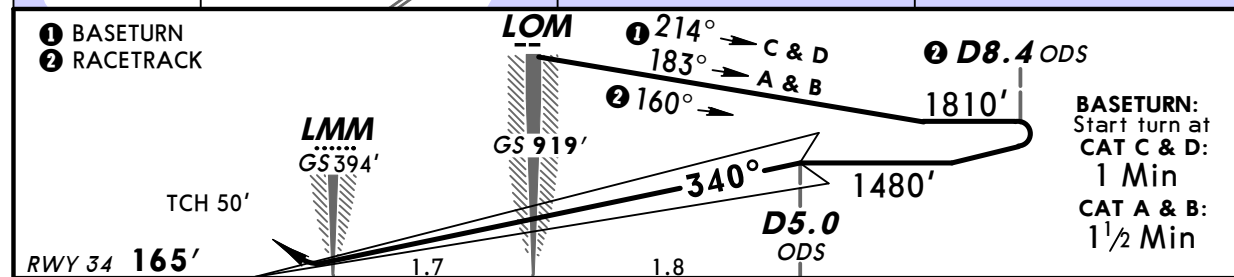
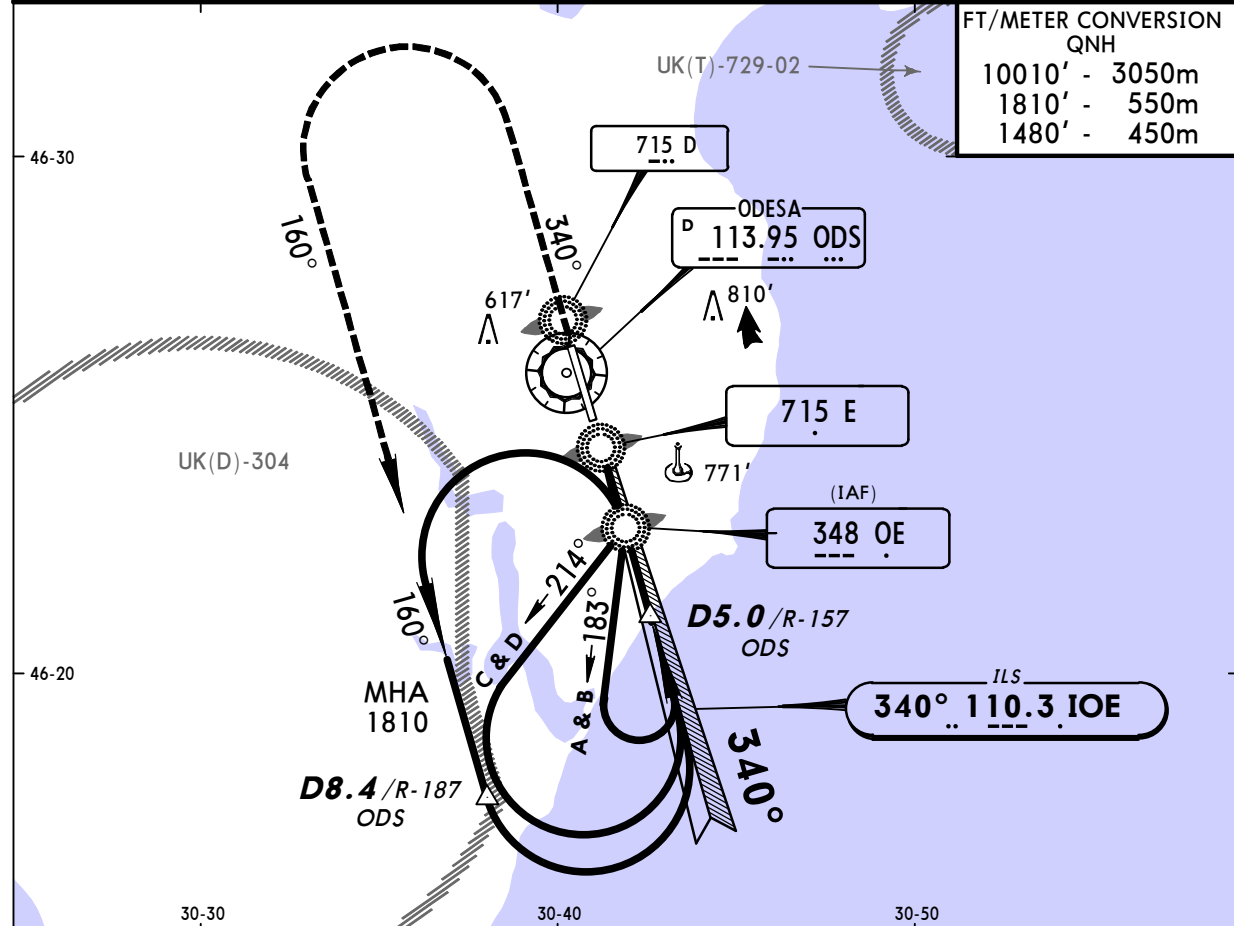
UK00/ODS
ODESA

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' RWY 165'	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				
Gnd speed-Kts	70	90	100	120	140	160		
Gs 3.00°	377	485	539	647	755	862		

HIALS
PAPI


1810' on 340°


JAR-OPS

STRAIGHT-IN LANDING RWY 34

CIRCLE-TO-LAND **1**

ILS			LOC		Prohibited in sector R-020 to R-120 ODS	
DA(H) 365' (200')			(GS out)			
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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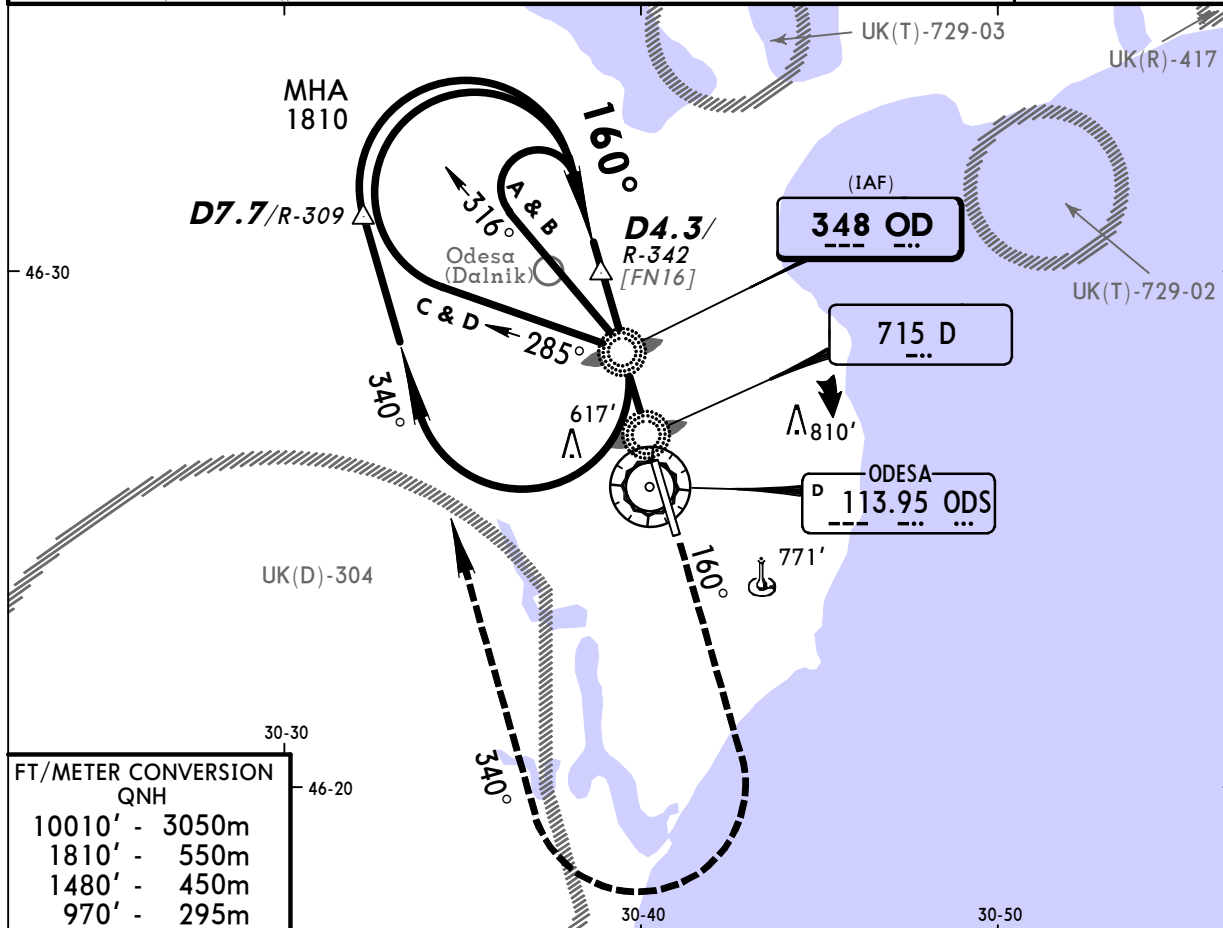
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ODESA

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

ODESA, UKRAINE
NDB Rwy 16

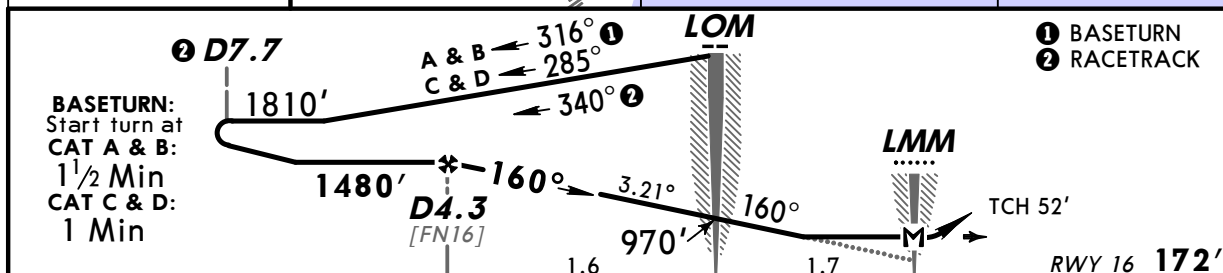
BRIEFING STRIP

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	MDA(H)	VIS	
A	RVR 1000m	RVR 1500m		100	920' (748')	1500m	
B	RVR 1200m			135	920' (748')	1600m	
C	RVR 1600m	RVR 2000m		180	1020' (848')	2400m	
D	RVR 1600m			205	1020' (848')	3600m	

CHANGES: Minimums.

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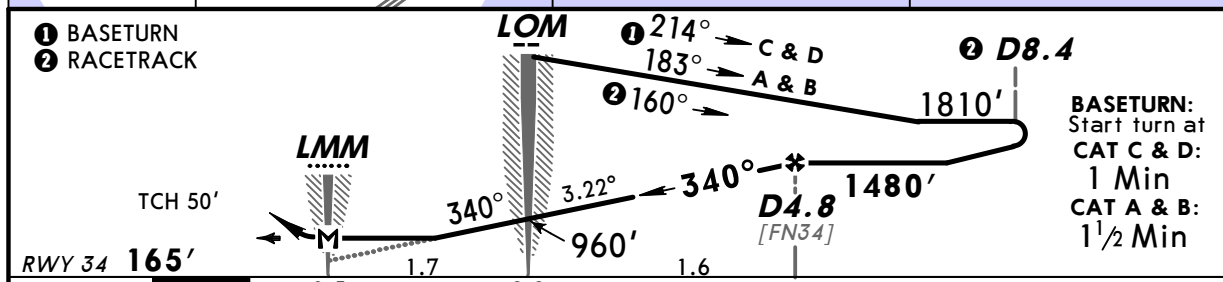
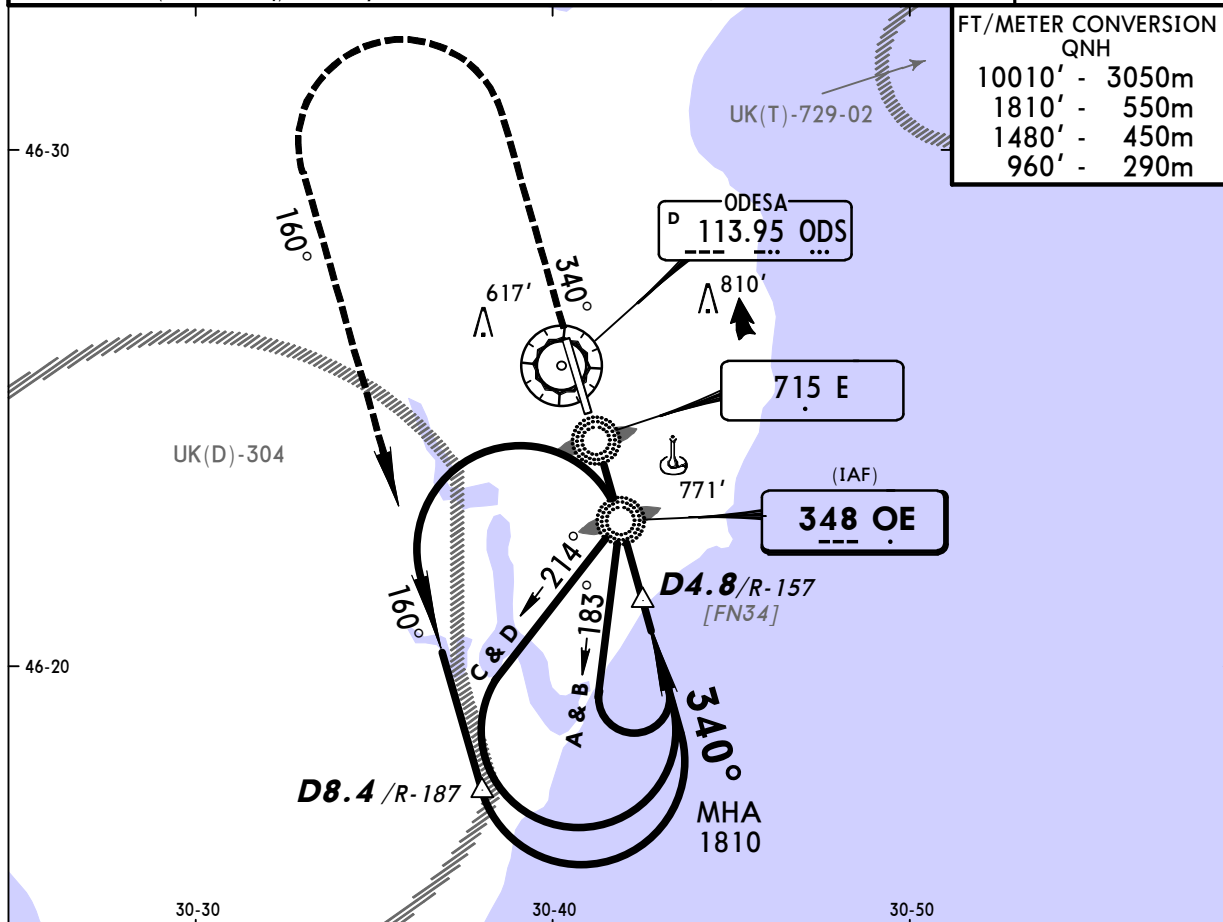
UK00/ODS
ODESA

JEPPESEN
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'
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'		
						MSA ODS VOR



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI 1810' on 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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