

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

**No revision activity since Disc 09-2011**

## **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

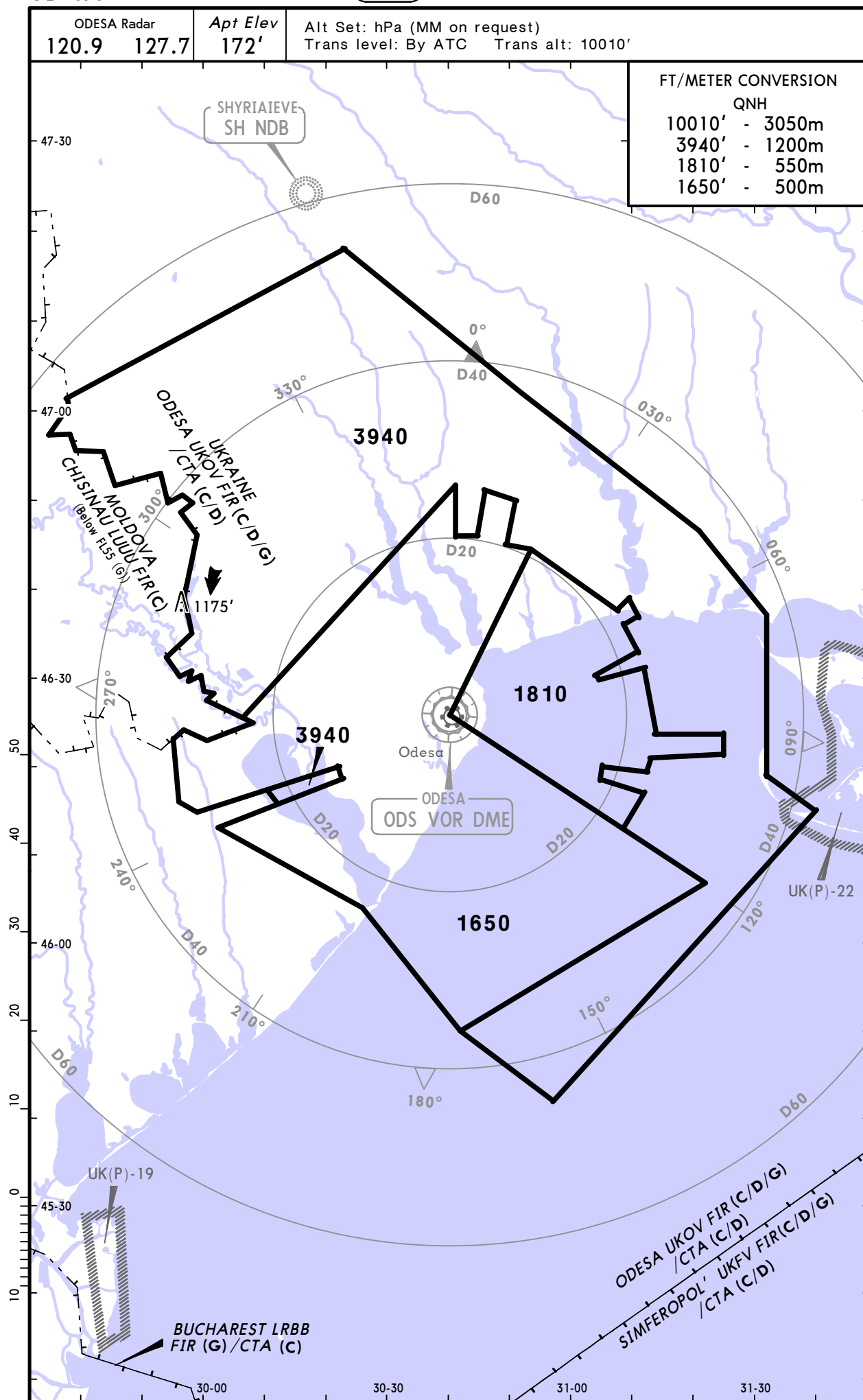
**Communications Info**ATIS **124.8**Odesa Tower **125.5**Odesa Ground Control **121.8**Odesa Radar Approach Control **127.7**Odesa Radar Approach Control **120.9****Notebook Info**

**UK00/ODS**  
**ODESA**

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

**ODESA, UKRAINE**

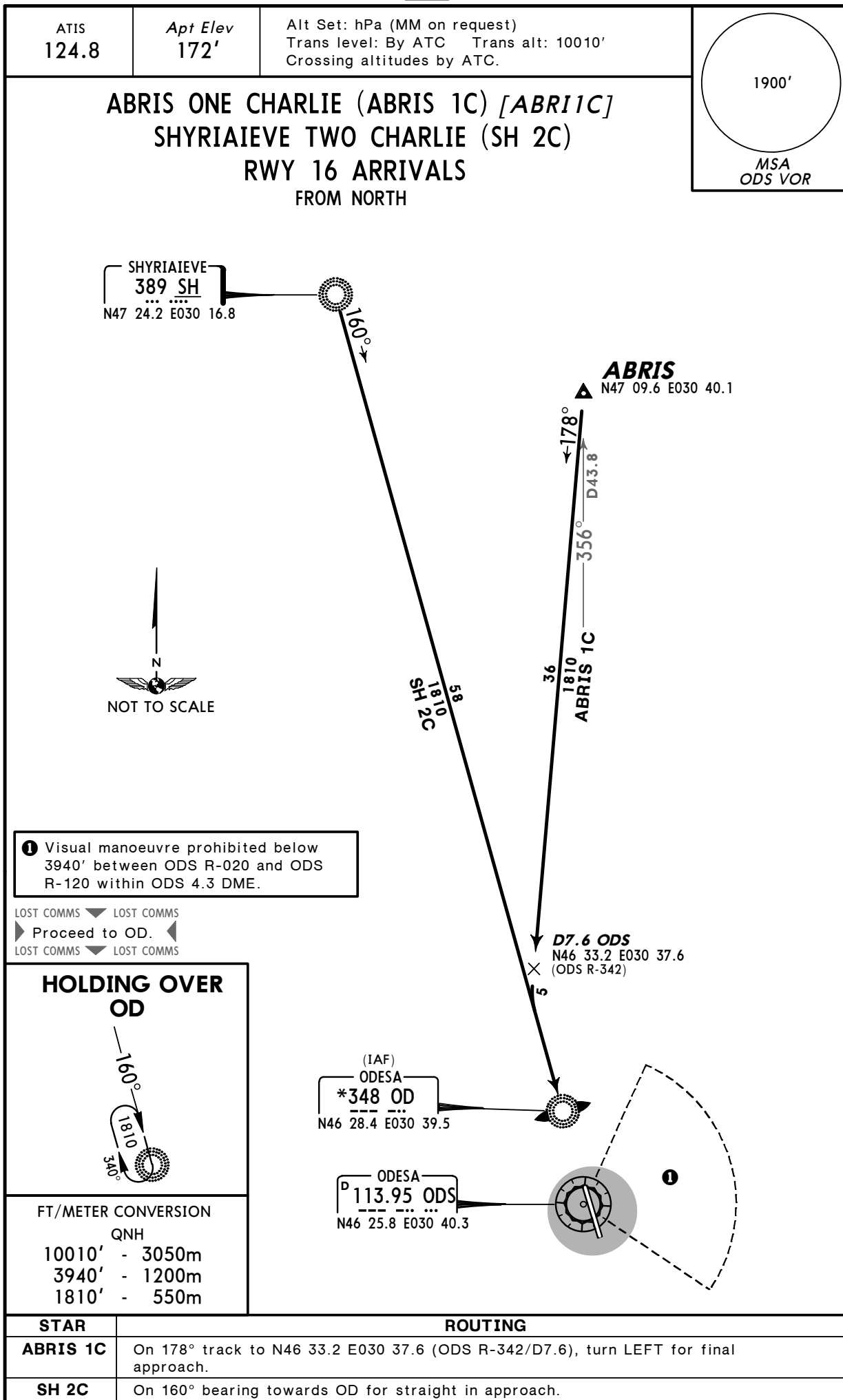
**RADAR MINIMUM ALTITUDES**



**UK00/ODS**  
**ODESA**

**JEPPESEN**  
 26 OCT 07 **10-2**

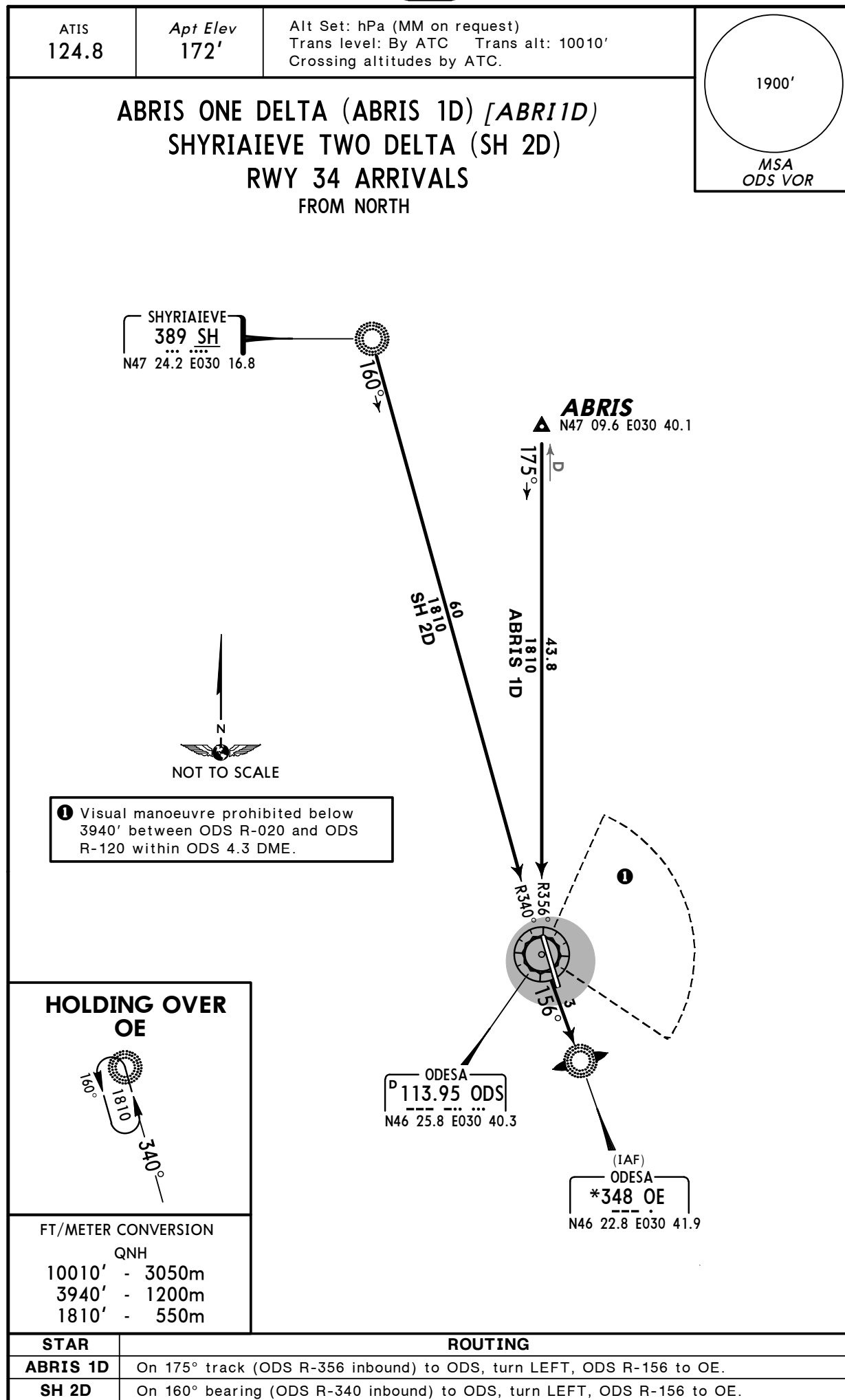
**ODESA, UKRAINE**  
**STAR**



**UK00/ODS**  
**ODESA**

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

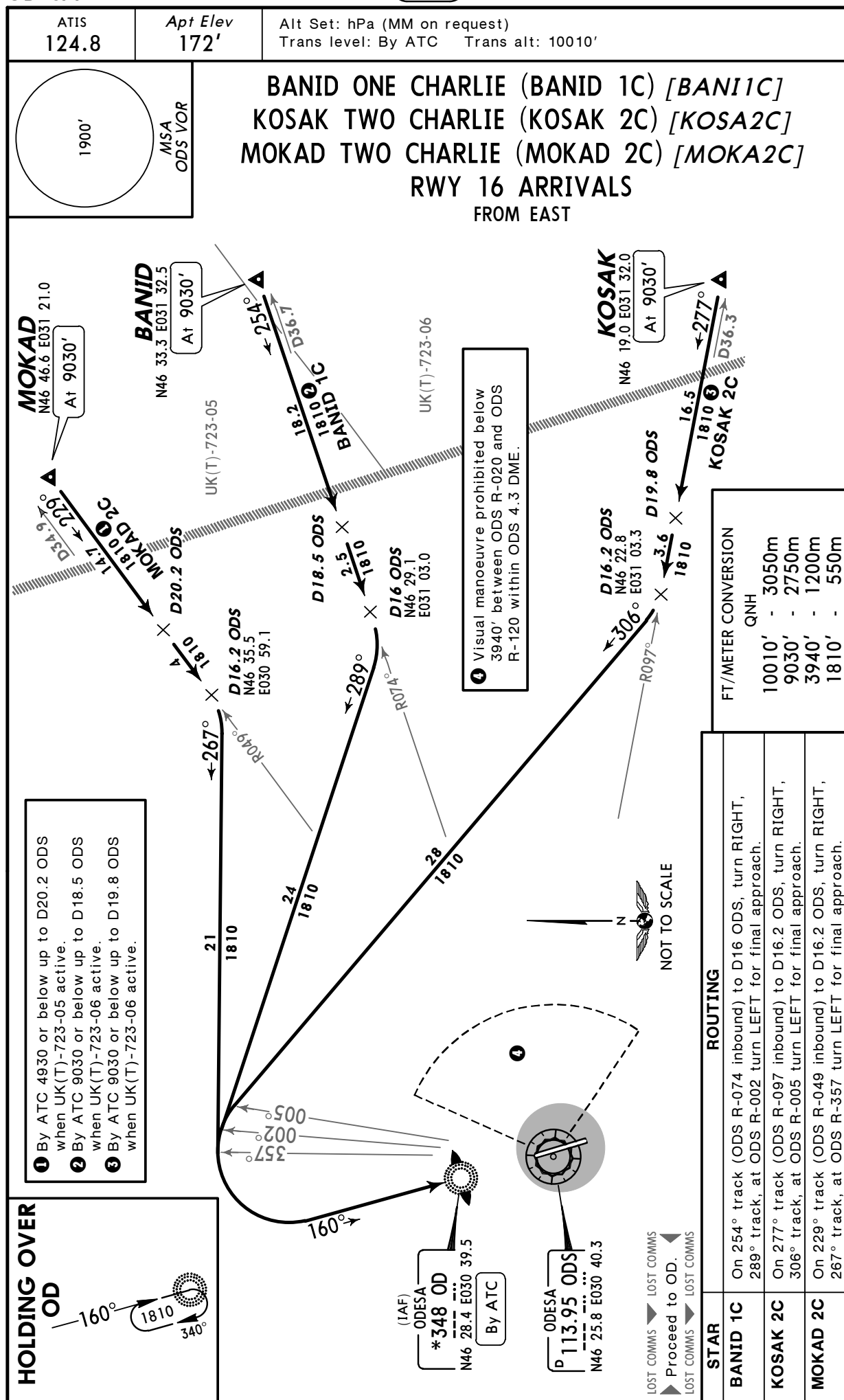
**ODESA, UKRAINE**  
**STAR**



UK00/ODS  
 ODESA

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

**ODESA, UKRAINE**  
**STAR**



**UK00/ODS**  
**ODESA**

**JEPPESSEN**

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

**ODESA, UKRAINE**

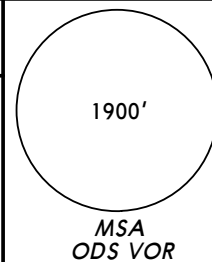
**STAR**

ATIS  
**124.8**

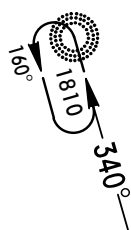
Apt Elev  
**172'**

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**

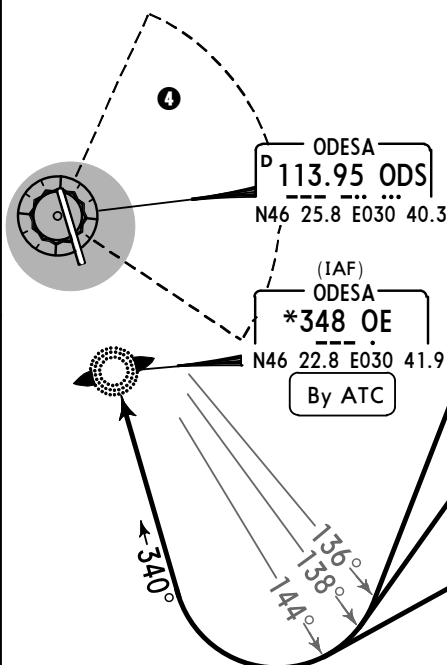


**HOLDING OVER**  
**OE**



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  |



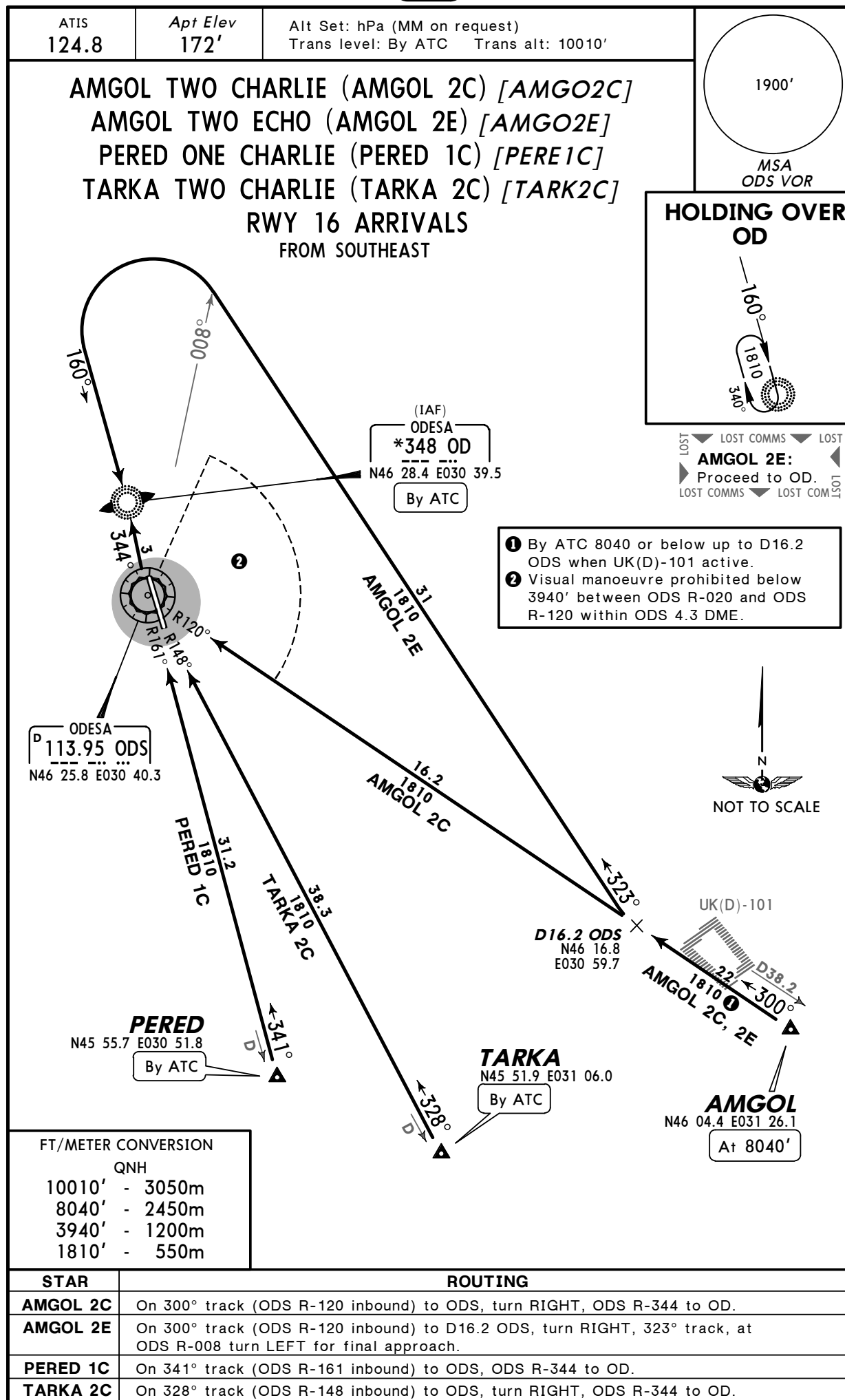
- ① By ATC 4930 or below up to D20.2 ODS when UK(T)-723-05 active.
- ② By ATC 9030 or below up to D18.5 ODS when UK(T)-723-06 active.
- ③ By ATC 9030 or below up to D19.8 ODS when UK(T)-723-06 active.

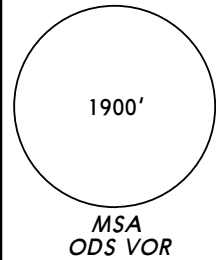
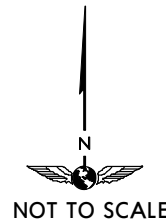
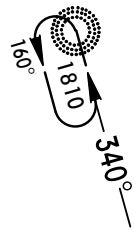
| STAR            | ROUTING                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| <b>BANID 1D</b> | On 254° track (ODS R-074 inbound) to D16 ODS, turn LEFT, 216° track, at ODS R-138 turn RIGHT for final approach.   |
| <b>KOSAK 2D</b> | On 277° track (ODS R-097 inbound) to D16.2 ODS, turn LEFT, 237° track, at ODS R-144 turn RIGHT for final approach. |
| <b>MOKAD 2D</b> | 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)**

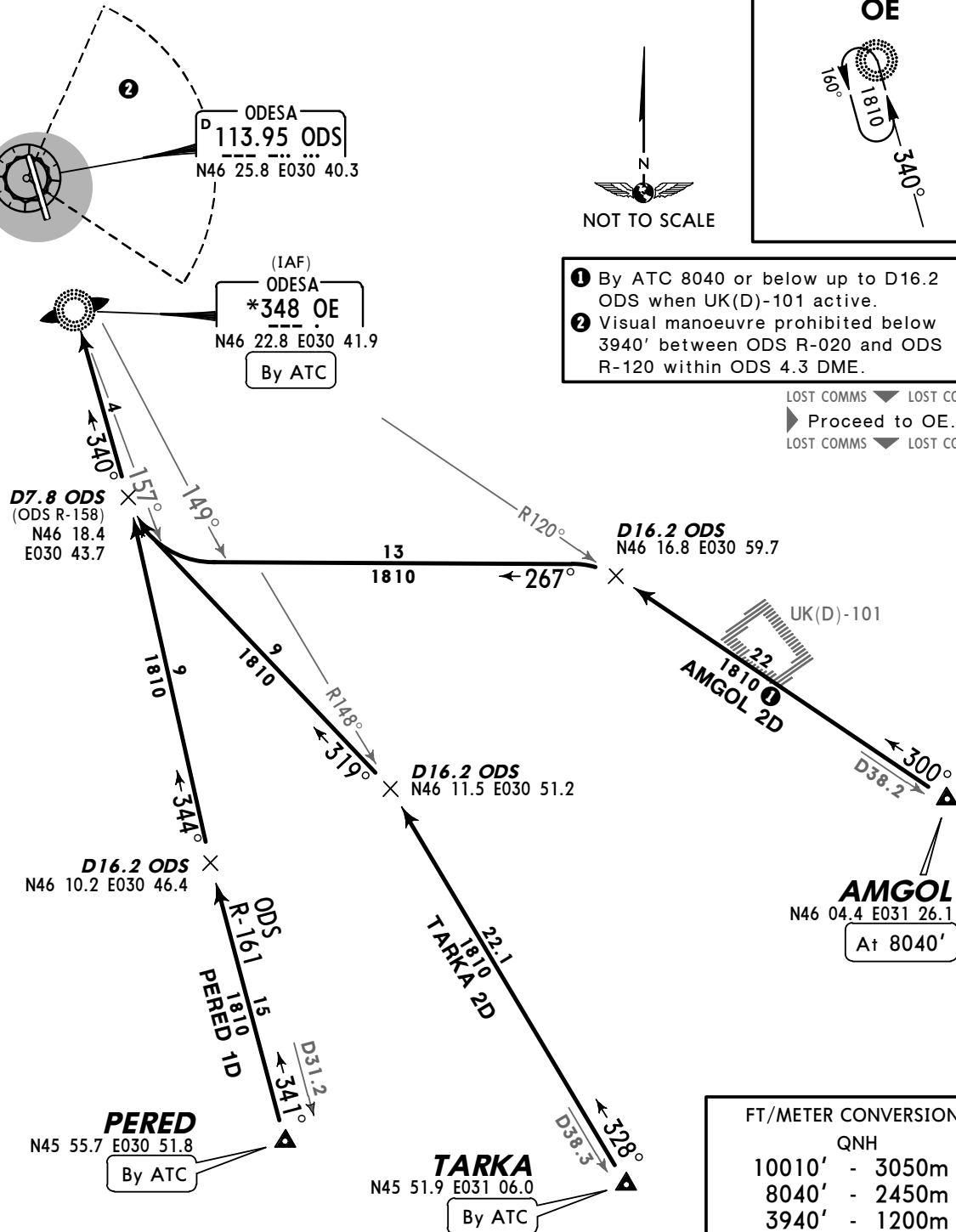
**ODESA, UKRAINE**  
**STAR**



**UK00/ODS**  
**ODESA****JEPPESSEN**26 OCT 07 **10-2E****ODESA, UKRAINE****STAR**ATIS  
**124.8**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**

|                 |                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| <b>AMGOL 2D</b> | On 300° track (ODS R-120 inbound) to D16.2 ODS, turn LEFT, 267° track, at ODS R-149 turn RIGHT for final approach. |
| <b>PERED 1D</b> | On 341° track (ODS R-161 inbound) to D16.2 ODS, turn RIGHT, 344° track, at ODS R-158 turn LEFT for final approach. |
| <b>TARKA 2D</b> | 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**



26 OCT 07 (10-2F)

## ODESA, UKRAINE

**STAR**

**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

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

ATIS  
124.8

Apt Elev  
172'

MSA  
ODS VOR

1900'

HOLDING OVER OD

NOT TO SCALE

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

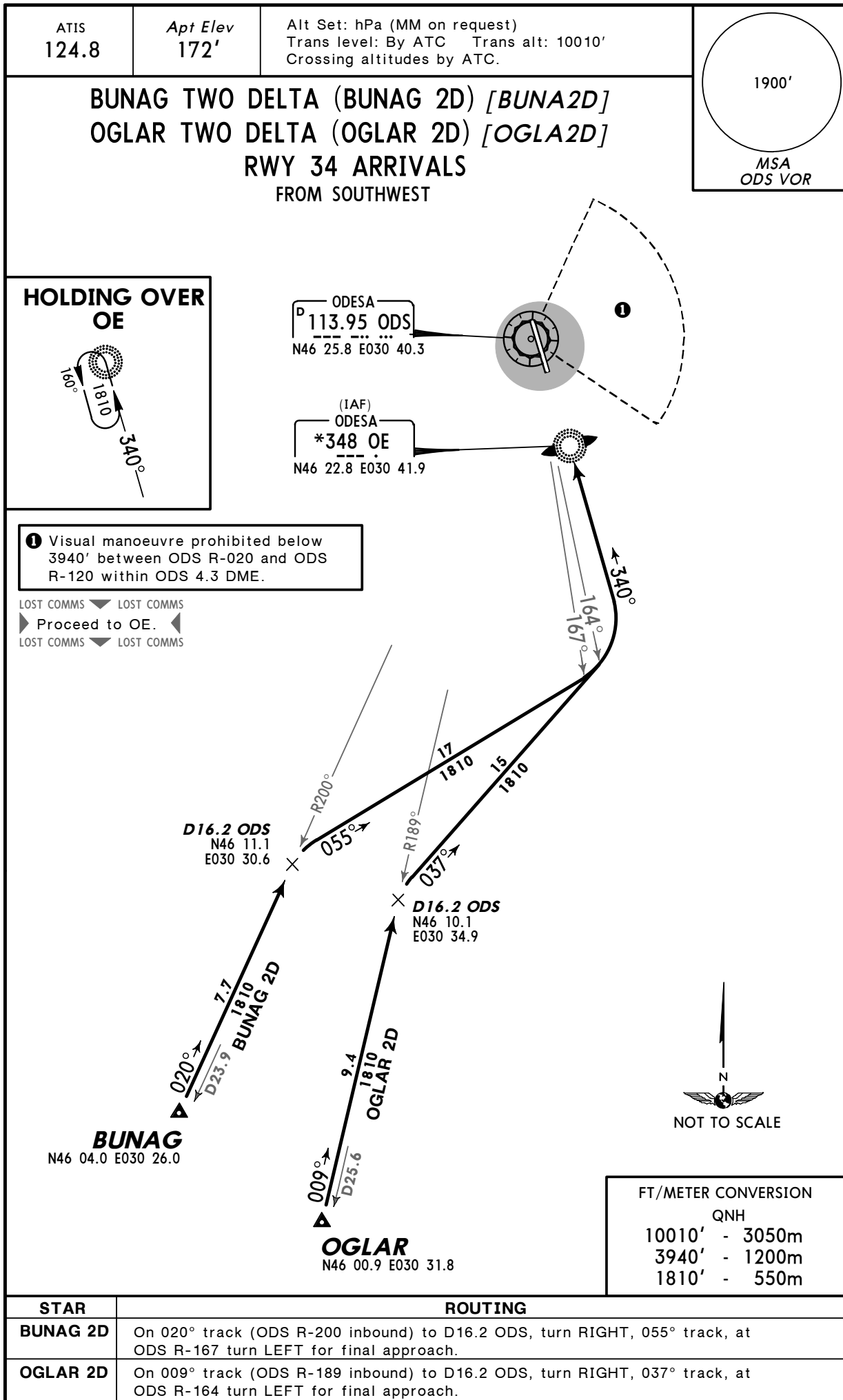
FT/METER CONVERSION QNH

| 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)**

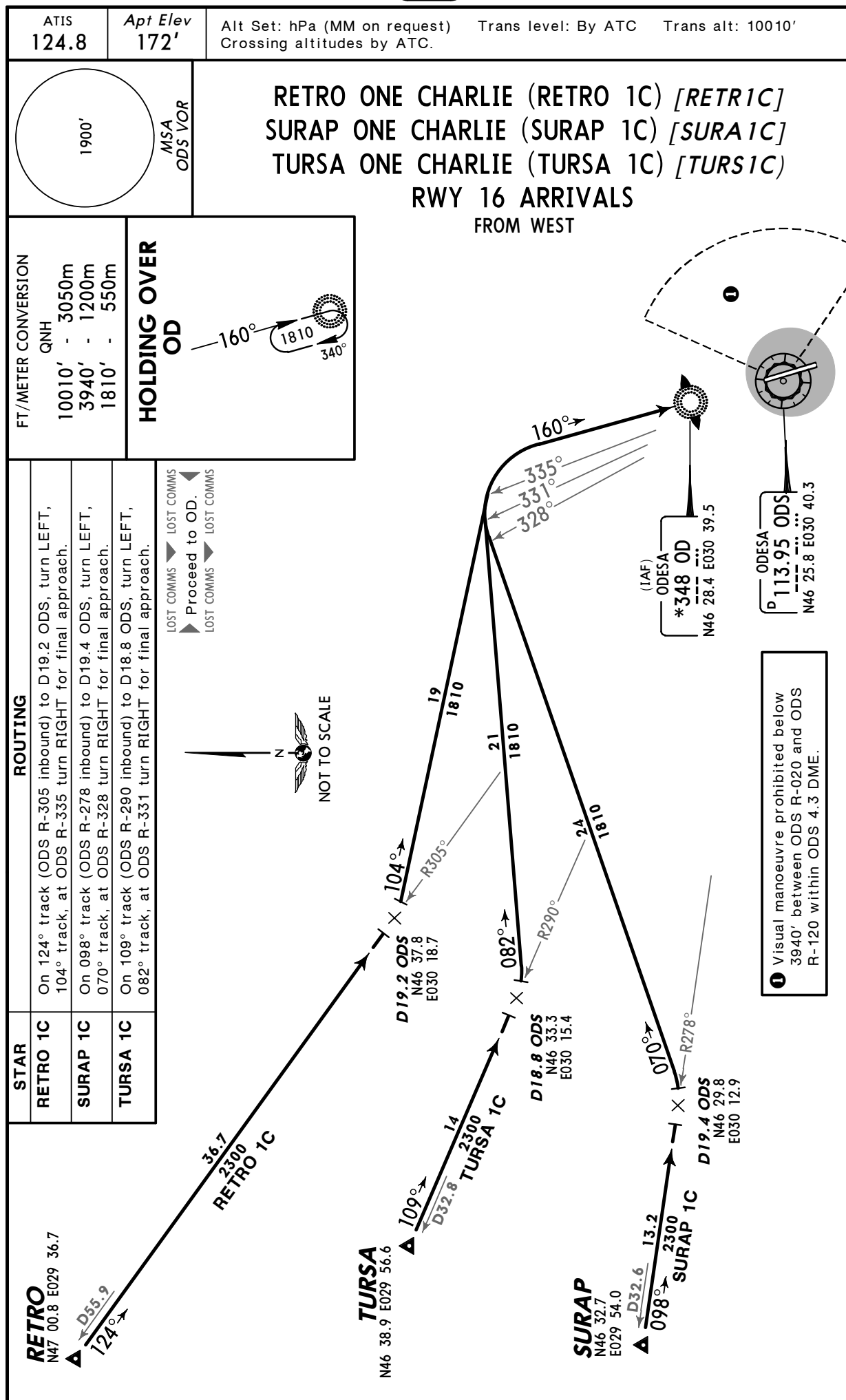
**ODESA, UKRAINE**  
**STAR**



**UK00/ODS**  
**ODESA**

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

**ODESA, UKRAINE**  
**STAR**



UK00/ODS  
ODESA



## ODESA, UKRAINE

**STAR**

26 OCT 07 (10-2J)

**ATIS**  
**124.8**

**Apt Elev**  
**172'**

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

1900'

**MSA**  
**ODS VOR**

**RETRO ONE DELTA (RETRO 1D) [RETR1D]**  
**RETRO ONE ECHO (RETRO 1E) [RETR1E]**  
**SURAP ONE DELTA (SURAP 1D) [SURA1D]**  
**TURSA ONE DELTA (TURSA 1D) [TURS1D]**  
**TURSA ONE ECHO (TURSA 1E) [TURS1E]**

**RWY 34 ARRIVALS**

| STAR            | ROUTING                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| <b>RETRO 1D</b> | On 124° track (ODS R-305 inbound) to ODS, turn RIGHT, ODS R-156 to OE.                                             |
| <b>RETRO 1E</b> | On 124° track (ODS R-305 inbound) to D19.2 ODS, turn RIGHT, 143° track, at ODS R-185 turn LEFT for final approach. |
| <b>SURAP 1D</b> | On 098° track (ODS R-278 inbound) to D19.4 ODS, turn RIGHT, 123° track, at ODS R-181 turn LEFT for final approach. |
| <b>TURSA 1D</b> | On 109° track (ODS R-290 inbound) to ODS, turn RIGHT, ODS R-156 to OE.                                             |
| <b>TURSA 1E</b> | On 109° track (ODS R-290 inbound) to D18.8 ODS, turn RIGHT, 132° track, at ODS R-183 turn LEFT for final approach. |

**RETRO 1E, SURAP 1D, TURSA 1E:**  
 Proceed to OE.

**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

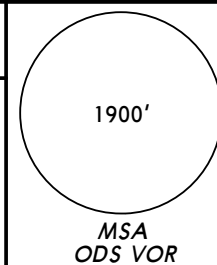
**UK00/ODS**  
**ODESA**

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

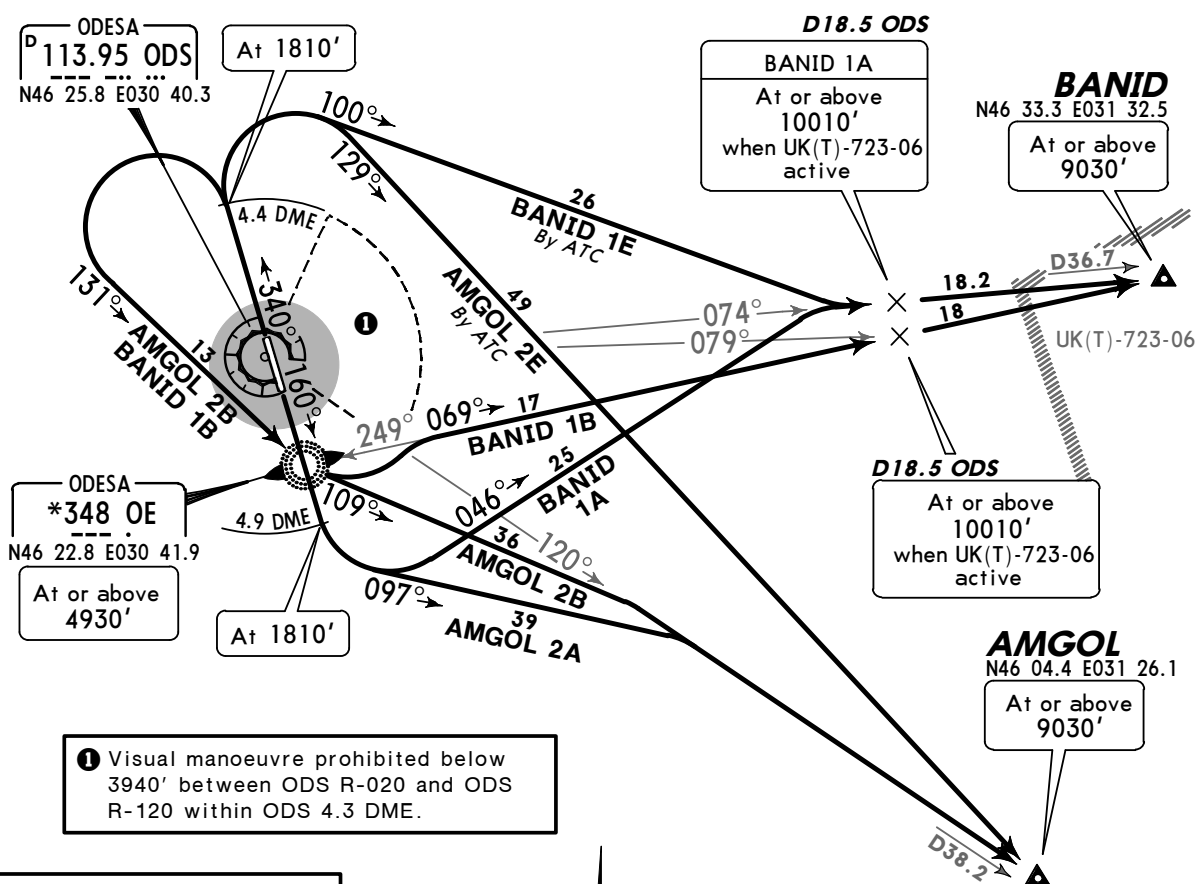
**ODESA, UKRAINE**  
**SID**

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 |

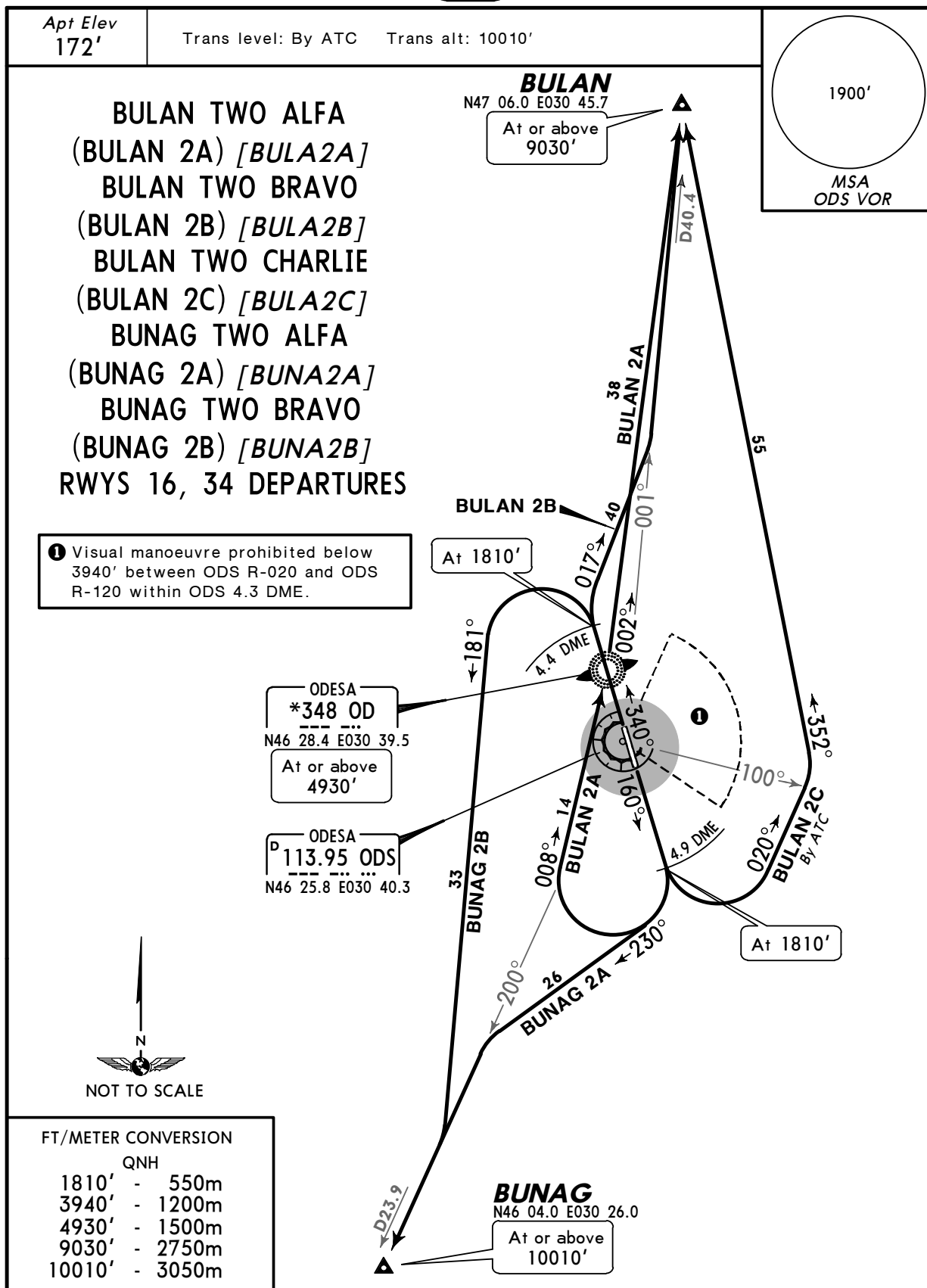


| SID                       | RWY       | ROUTING                                                                                                                                     |
|---------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------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

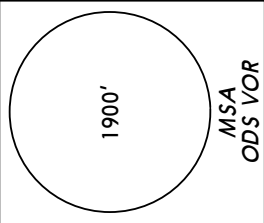
26 OCT 07 **(10-3B)**

**ODESA, UKRAINE**

**SID**

*Apt Elev*  
**172'**

Trans level: By ATC Trans alt: 10010'

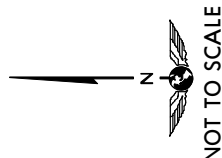


**KOSAK TWO ALFA (KOSAK 2A) [KOSA2A]**  
**KOSAK TWO BRAVO (KOSAK 2B) [KOSA2B]**  
**KOSAK TWO ECHO (KOSAK 2E) [KOSA2E]**  
**RWYS 16, 34 DEPARTURES**

**FT/METER CONVERSION**

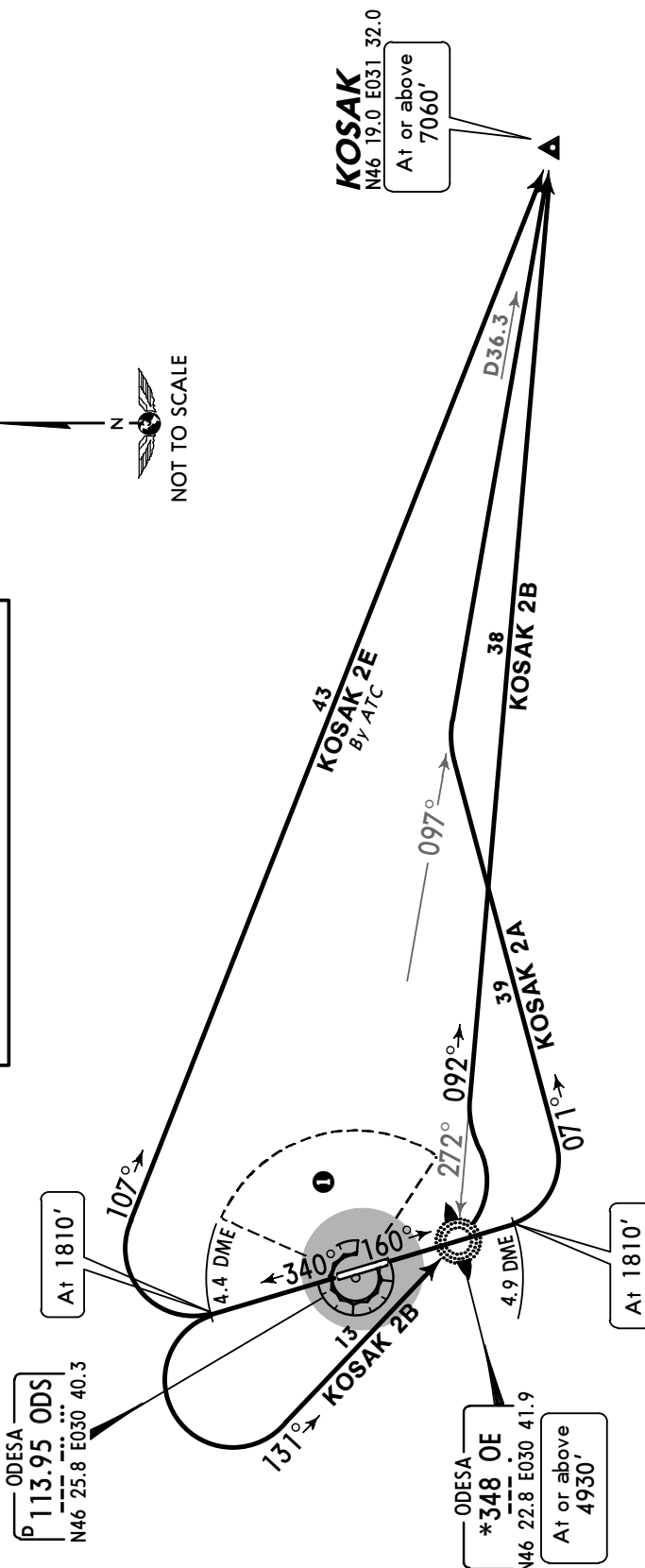
**QNH**

1810' - 550m  
3940' - 1200m  
4930' - 1500m  
7060' - 2150m  
10010' - 3050m



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

| SID                       | RWY       | ROUTING                                                                                                                          |
|---------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>KOSAK 2A</b>           | <b>16</b> | Climb on 160° track to ODS 4.9 DME, turn LEFT, 071° track, intercept ODS R-097 to KOSAK.                                         |
| <b>KOSAK 2B</b>           | <b>34</b> | Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, turn LEFT, intercept 092° bearing from OE to KOSAK. |
| <b>KOSAK 2E</b><br>By ATC |           | Climb on 340° track to ODS 4.4 DME, turn RIGHT, 107° track to KOSAK.                                                             |



UK00/ODS  
ODESA



**JEPPESEN**

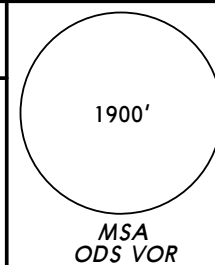
26 OCT 07 (10-3C)

## ODESA, UKRAINE

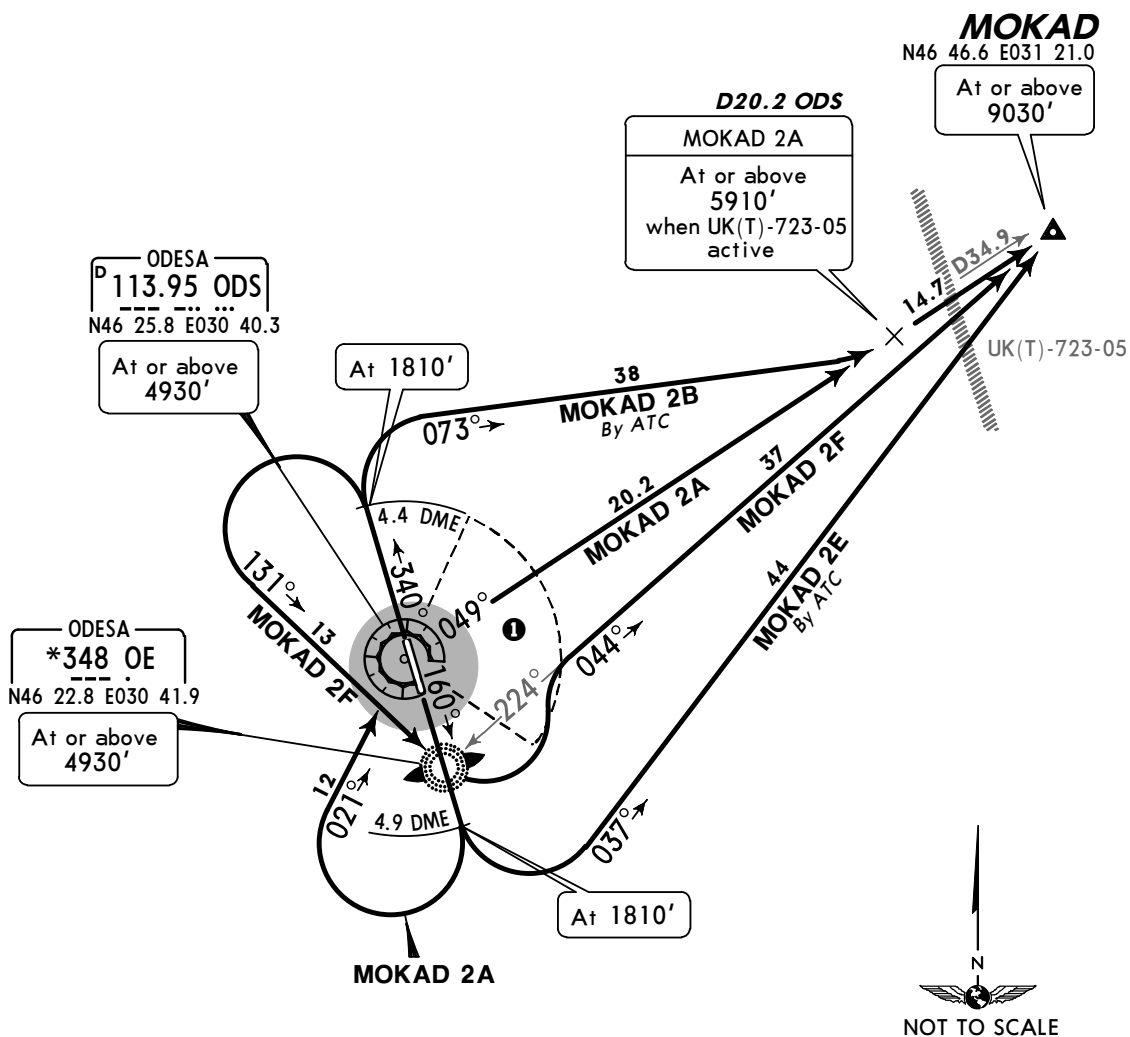
**SID**

*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                                                                                                                          |
|---------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>MOKAD 2A</b>           | <b>16</b> | Climb on 160° track to ODS 4.9 DME, turn RIGHT, 021° track to ODS, turn RIGHT, ODS R-049 to MOKAD.                               |
| <b>MOKAD 2B</b><br>By ATC | <b>34</b> | Climb on 340° track to ODS 4.4 DME, turn RIGHT, 073° track, intercept ODS R-049 to MOKAD.                                        |
| <b>MOKAD 2E</b><br>By ATC | <b>16</b> | Climb on 160° track to ODS 4.9 DME, turn LEFT, 037° track to MOKAD.                                                              |
| <b>MOKAD 2F</b>           | <b>34</b> | 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. |

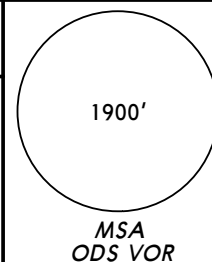
**UK00/ODS**  
**ODESA**

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

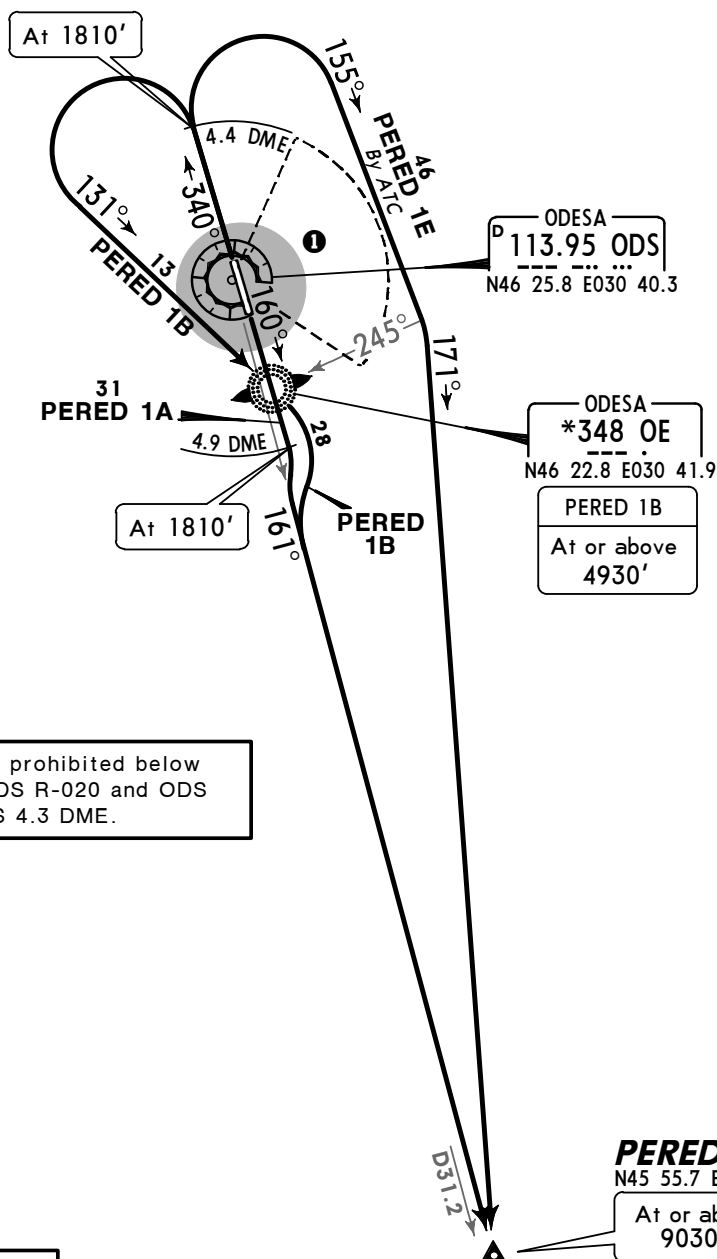
**ODESA, UKRAINE**  
**SID**

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**



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

| SID                       | RWY       | ROUTING                                                                                                            |
|---------------------------|-----------|--------------------------------------------------------------------------------------------------------------------|
| <b>PERED 1A</b>           | <b>16</b> | Climb on 160° track to ODS 4.9 DME, turn RIGHT, intercept ODS R-161 to PERED.                                      |
| <b>PERED 1B</b>           | <b>34</b> | Climb on 340° track to ODS 4.4 DME, turn LEFT, intercept 131° bearing to OE, intercept ODS R-161 to PERED.         |
| <b>PERED 1E</b><br>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. |

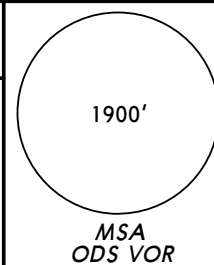
**UK00/ODS**  
**ODESA**

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

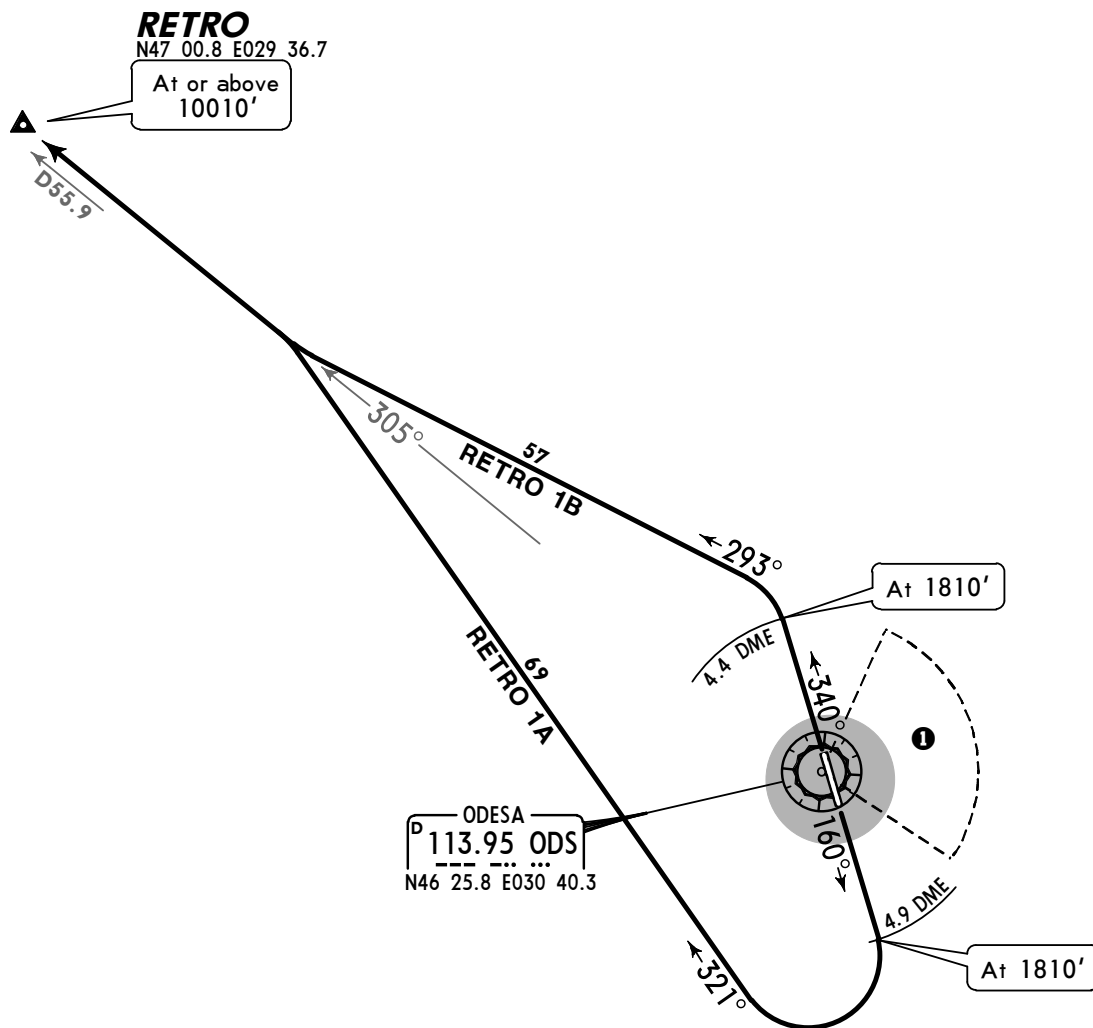
**ODESA, UKRAINE**  
**SID**

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                                                                                   |
|-----------------|-----------|-------------------------------------------------------------------------------------------|
| <b>RETRO 1A</b> | <b>16</b> | Climb on 160° track to ODS 4.9 DME, turn RIGHT, 321° track, intercept ODS R-305 to RETRO. |
| <b>RETRO 1B</b> | <b>34</b> | Climb on 340° track to ODS 4.4 DME, turn LEFT, 293° track, intercept ODS R-305 to RETRO.  |

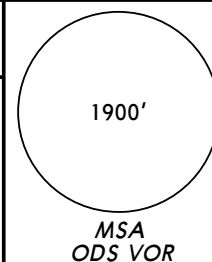
**UK00/ODS**  
**ODESA**

**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'

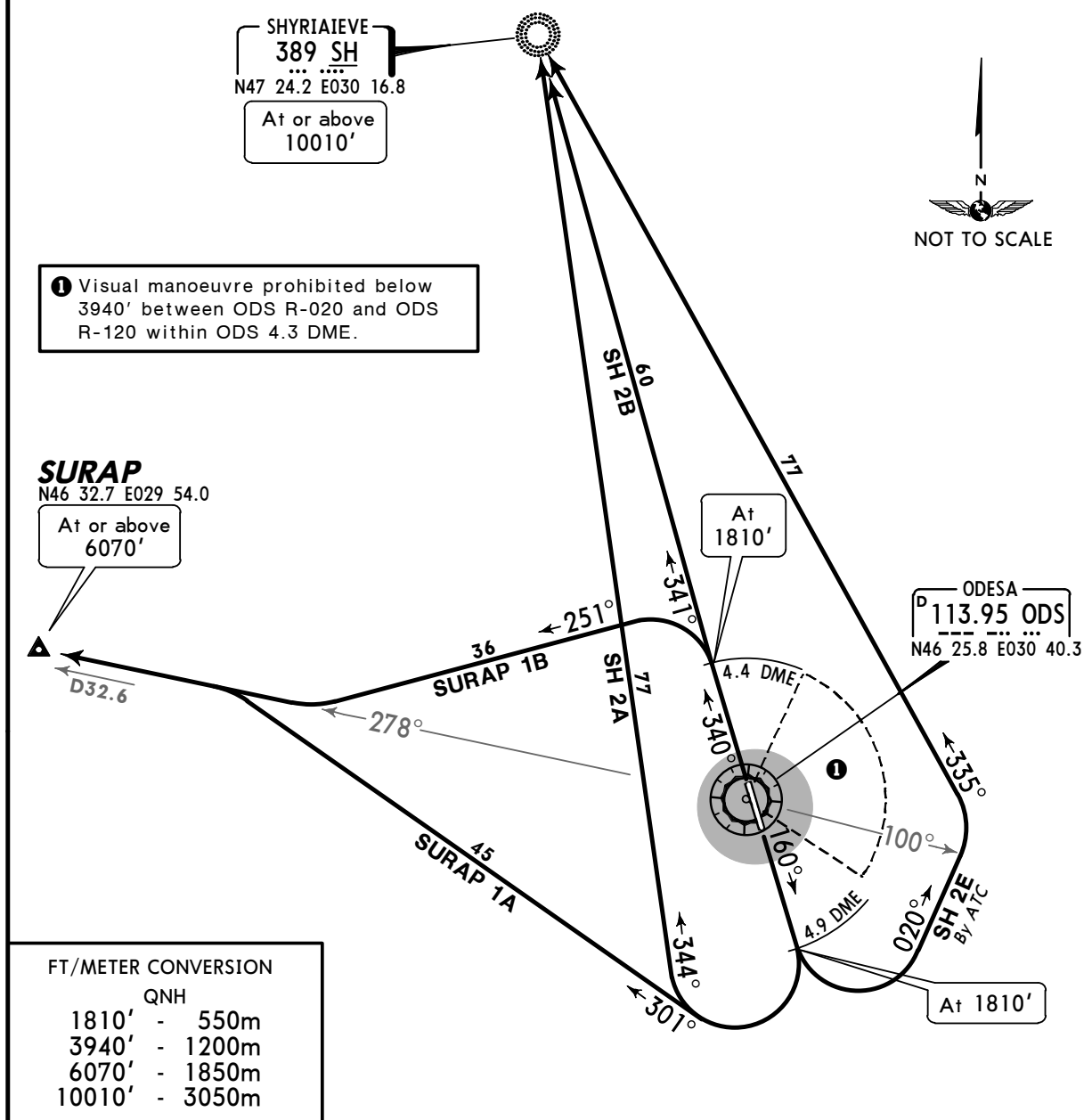
**1** Visual manoeuvre prohibited below  
3940' between ODS R-020 and ODS  
R-120 within ODS 4.3 DME.



**SURAP**  
N46 32.7 E029 54.0  
At or above  
6070'

**ODESA**  
**P 113.95 ODS**  
N46 25.8 E030 40.3

**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<br>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



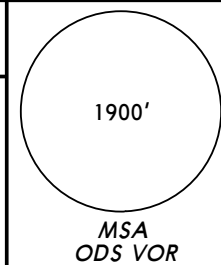
26 OCT 07 (10-3G)

## ODESA, UKRAINE

**SID**

*Apt Elev*  
172'

Trans level: By ATC      Trans alt: 10010'

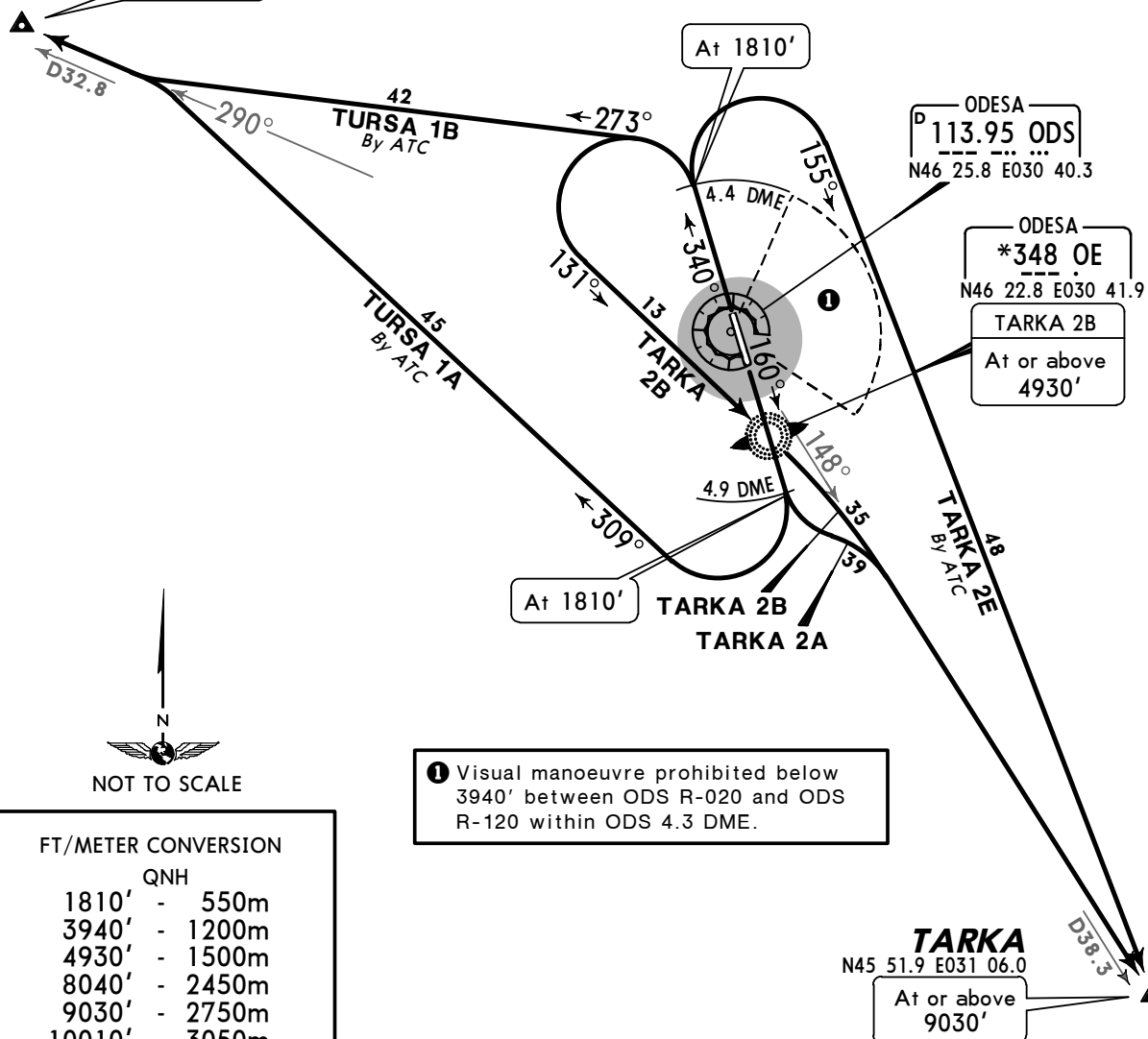


TARKA TWO ALFA (TARKA 2A) [TARK2A]  
TARKA TWO BRAVO (TARKA 2B) [TARK2B]  
TARKA TWO ECHO (TARKA 2E) [TARK2E]  
TURSA ONE ALFA (TURSA 1A) [TURS1A]  
TURSA ONE BRAVO (TURSA 1B) [TURS1B]  
RWYS 16, 34 DEPARTURES

**TURSA**

N46 38.9 E029 56.6

At or above  
8040'



NOT TO SCALE

## FT/METER CONVERSION

QNH

|        |   |       |
|--------|---|-------|
| 1810'  | - | 550m  |
| 3940'  | - | 1200m |
| 4930'  | - | 1500m |
| 8040'  | - | 2450m |
| 9030'  | - | 2750m |
| 10010' | - | 3050m |

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

| 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<br>By ATC |     | Climb on 340° track to ODS 4.4 DME, turn RIGHT, 155° track to TARKA.                                       |
| TURSA 1A<br>By ATC | 16  | Climb on 160° track to ODS 4.9 DME, turn RIGHT, 309° track, intercept ODS R-290 to TURSA.                  |
| TURSA 1B<br>By ATC | 34  | Climb on 340° track to ODS 4.4 DME, turn LEFT, 273° track, intercept ODS R-290 to TURSA.                   |

**CHANGES:** Altitude conversion.

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**UK00/ODS**

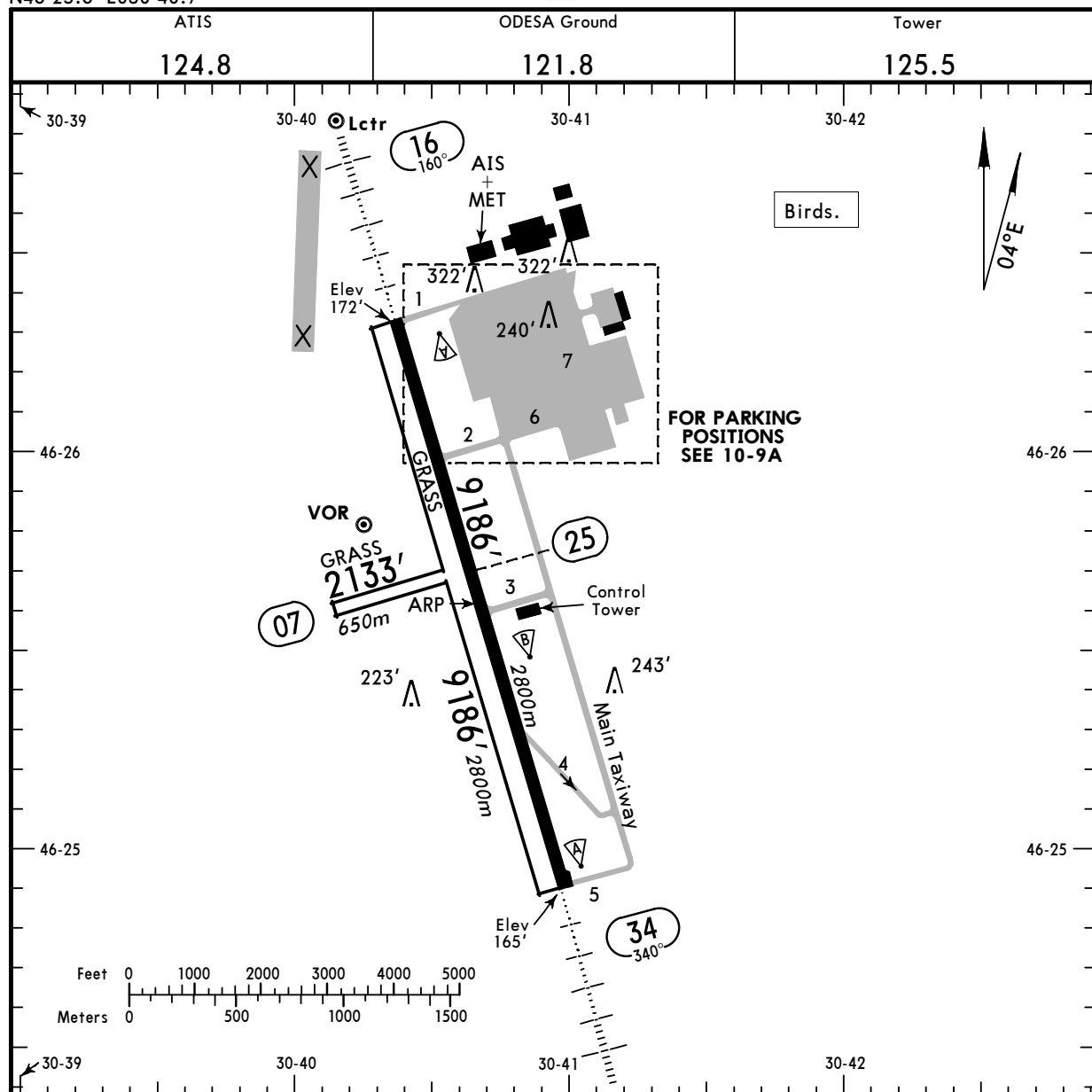
Apt Elev **172'**  
N46 25.6 E030 40.7

**JEPPESEN**

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

**ODESA, UKRAINE**

**ODESA**



**ADDITIONAL RUNWAY INFORMATION**

| RWY |    |                       | USABLE LENGTHS |                | TAKE-OFF      | WIDTH        |
|-----|----|-----------------------|----------------|----------------|---------------|--------------|
|     |    |                       | Threshold      | Landing Beyond |               |              |
| 07  | 25 |                       |                |                |               | 197'<br>60m  |
| 16  | 34 | HIRL (50m) HIALS PAPI | RVR            | 8235' 2510m    | 8760' 2670m ① | 184'<br>56m  |
| 16  | 34 | Grass runway          |                |                |               | 328'<br>100m |
|     |    |                       |                |                |               |              |

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

**JAR-OPS**

**TAKE-OFF ①**

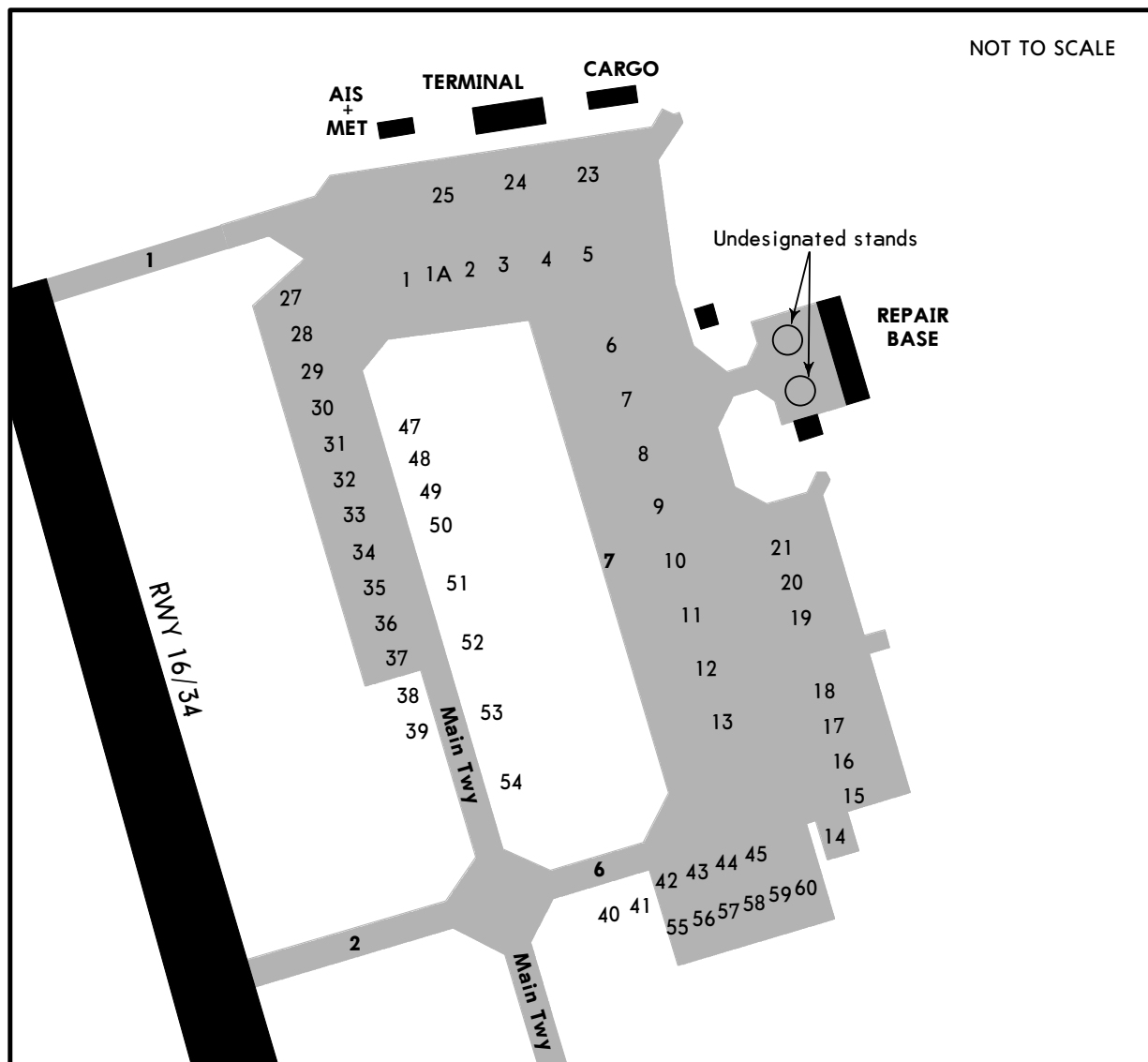
|   | All Rwys                 |                          |                   |
|---|--------------------------|--------------------------|-------------------|
|   | LVP must be in force     |                          |                   |
|   | RCLM (DAY only)<br>or RL | RCLM (DAY only)<br>or RL | NIL<br>(DAY only) |
| A |                          |                          |                   |
| B | 250m                     | 400m                     | 500m              |
| 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.

UK00/ODS


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

| STRAIGHT-IN RWY |                | A                  | B                  | C                  | D                  |
|-----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| <b>16</b>       | ILS            | <b>372'</b> (200') | <b>372'</b> (200') | <b>372'</b> (200') | <b>372'</b> (200') |
|                 | <i>FULL</i>    | <b>R550m</b>       | <b>R550m</b>       | <b>R550m</b>       | <b>R550m</b>       |
|                 | <i>Limited</i> | R750m              | R750m              | R750m              | R750m              |
|                 | <i>ALS out</i> | R1200m             | R1200m             | R1200m             | R1200m             |
|                 | NDB ❶          | <b>680'</b> (508') | <b>680'</b> (508') | <b>680'</b> (508') | <b>680'</b> (508') |
|                 | <i>ALS out</i> | <b>R1500m</b>      | <b>R1500m</b>      | <b>R1600m</b>      | <b>R1600m</b>      |
| <b>34</b>       | ILS            | <b>365'</b> (200') | <b>365'</b> (200') | <b>365'</b> (200') | <b>365'</b> (200') |
|                 | <i>FULL</i>    | <b>R550m</b>       | <b>R550m</b>       | <b>R550m</b>       | <b>R550m</b>       |
|                 | <i>Limited</i> | R750m              | R750m              | R750m              | R750m              |
|                 | <i>ALS out</i> | R1200m             | R1200m             | R1200m             | R1200m             |
|                 | NDB ❶          | <b>630'</b> (465') | <b>630'</b> (465') | <b>630'</b> (465') | <b>630'</b> (465') |
|                 | <i>ALS out</i> | <b>R1500m</b>      | <b>R1500m</b>      | <b>R1500m</b>      | <b>R1500m</b>      |
|                 |                | 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   | <b>920'</b> (748') | <b>920'</b> (748') | <b>1020'</b> (848') | <b>1020'</b> (848') |
| After apch to rwy 34 ❸ | <b>920'</b> (755') | <b>920'</b> (755') | <b>1020'</b> (855') | <b>1020'</b> (855') |
|                        | V1500m             | V1600m             | V2400m              | V3600m              |

❷ Prohibited in sector between R-020 &amp; 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)<br>or RL | RCLM (DAY only)<br>or RL | NIL<br>(DAY only) |
| A                    | 250m                     | 400m                     | 500m              |
| B                    |                          |                          |                   |
| C                    |                          |                          |                   |
| D                    | 300m                     |                          |                   |

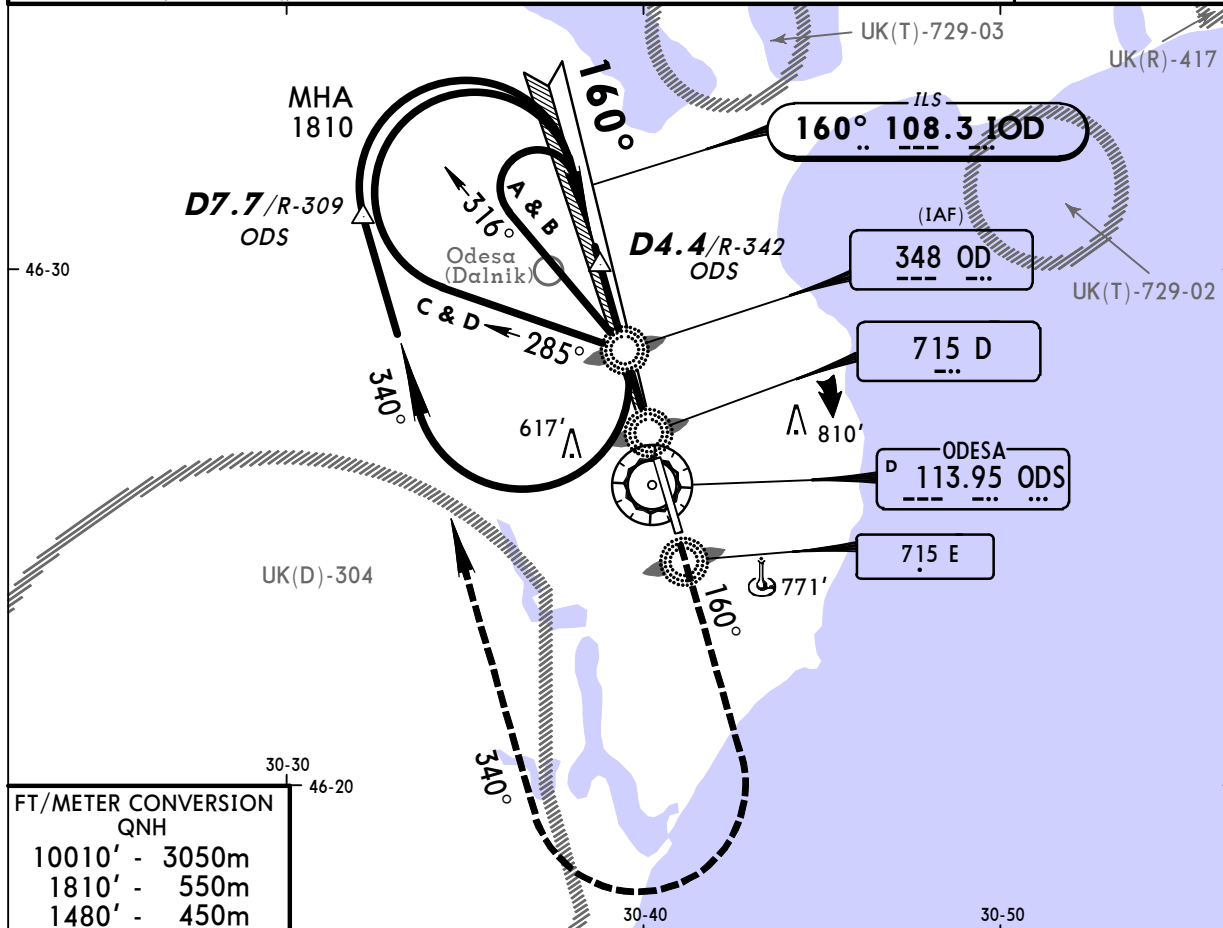
**UK00/ODS**  
**ODESA**

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

**ODESA, UKRAINE**  
**ILS Rwy 16**

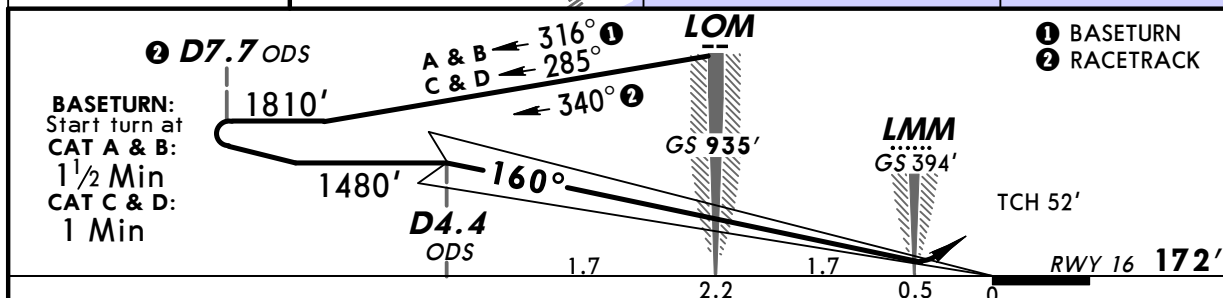
BRIEFING STRIP

|                                                                                        |                           |                                     |                             |                           |                  |
|----------------------------------------------------------------------------------------|---------------------------|-------------------------------------|-----------------------------|---------------------------|------------------|
| ATIS<br>124.8                                                                          |                           | ODESA Radar (APP)<br>120.9    127.7 |                             | ODESA Tower<br>125.5      | Ground<br>121.8  |
| LOC<br>IOD<br>108.3                                                                    | Final<br>Apch Crs<br>160° | GS<br>LOM<br>935' (763')            | ILS<br>DA(H)<br>372' (200') | Apt Elev 172'<br>RWY 172' | <div>1900'</div> |
| 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'         |                  |
| MSA ODS VOR                                                                            |                           |                                     |                             |                           |                  |



FT/METER CONVERSION  
QNH

|        |   |       |
|--------|---|-------|
| 10010' | - | 3050m |
| 1810'  | - | 550m  |
| 1480'  | - | 450m  |



|                                                                                  |  |  |  |  |  |                                         |  |
|----------------------------------------------------------------------------------|--|--|--|--|--|-----------------------------------------|--|
| <b>BASETURN:</b><br>Start turn at CAT A & B:<br>1 1/2 Min<br>CAT C & D:<br>1 Min |  |  |  |  |  | <b>1 BASETURN</b><br><b>2 RACETRACK</b> |  |
| HIALS PAPI: 1810' on 160°                                                        |  |  |  |  |  |                                         |  |

| 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) <b>372' (200')</b> |          |           |  |                            |  |                                         |                    |
| 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 |  |                            |  | 205                                     | 1020' (848') 3600m |

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ODESA

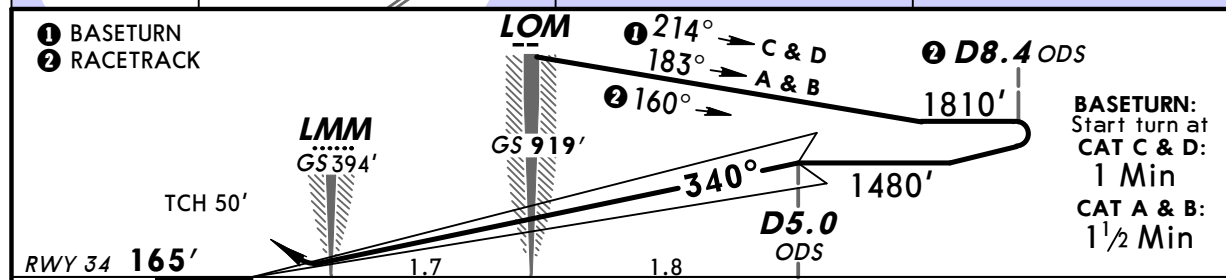
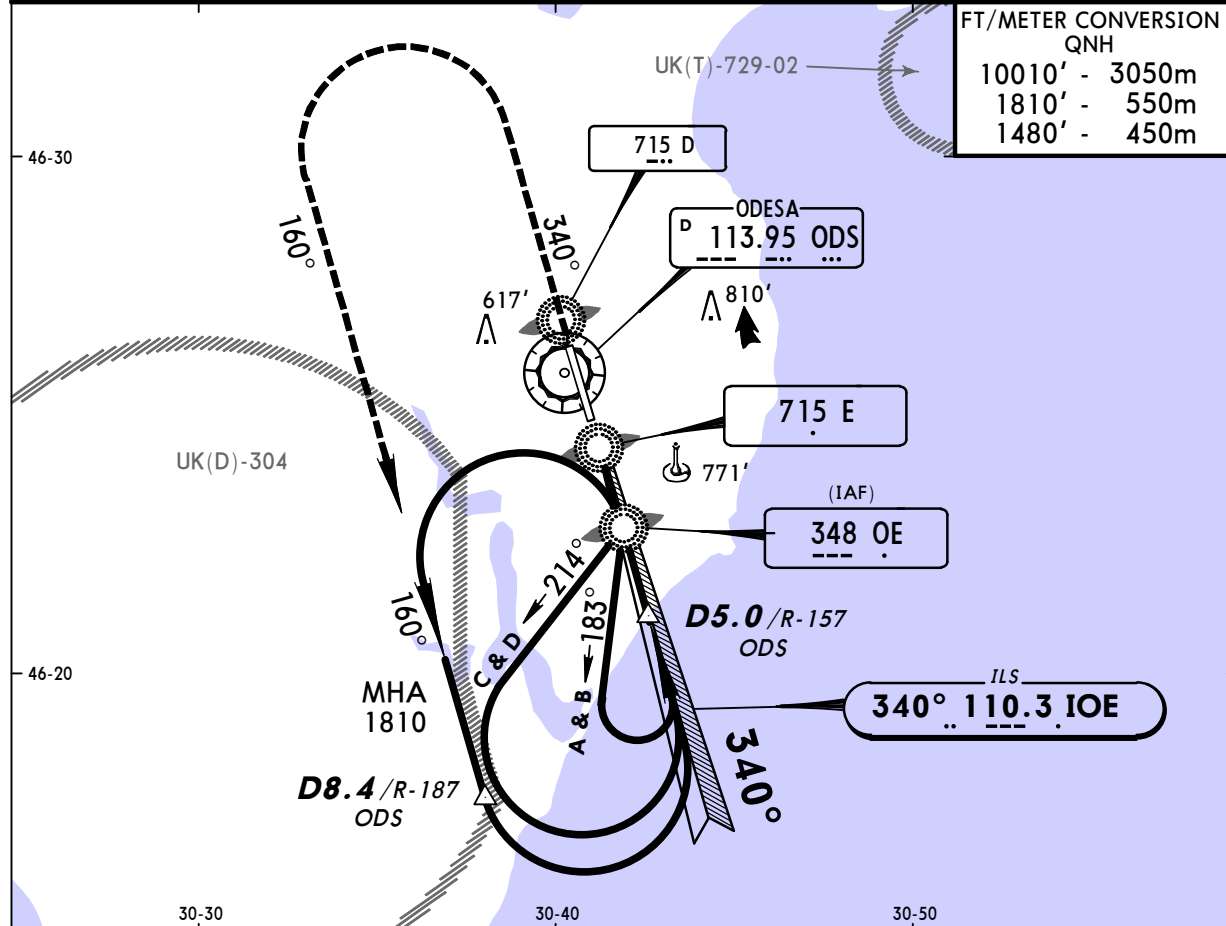
**JEPPESEN**  
12 FEB 10 (11-2)

ODESA, UKRAINE  
ILS Rwy 34

|                                                                                              |                           |                                     |                             |                           |  |                                                                                              |  |
|----------------------------------------------------------------------------------------------|---------------------------|-------------------------------------|-----------------------------|---------------------------|--|----------------------------------------------------------------------------------------------|--|
| ATIS<br>124.8                                                                                |                           | ODESA Radar (APP)<br>120.9    127.7 |                             | ODESA Tower<br>125.5      |  | Ground<br>121.8                                                                              |  |
| LOC<br>IOE<br>110.3                                                                          | Final<br>Apch Crs<br>340° | GS<br>LOM<br>919' (754')            | ILS<br>DA(H)<br>365' (200') | Apt Elev 172'<br>RWY 165' |  | <br>1900' |  |
| <b>MISSED APCH:</b> 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                                                                                  |                           |                                     |                             |                           |  |                                                                                              |  |

**FT/METER CONVERSION**  
QNH

|        |   |       |
|--------|---|-------|
| 10010' | - | 3050m |
| 1810'  | - | 550m  |
| 1480'  | - | 450m  |

[illegible]**JAR-OPS**

## STRAIGHT-IN LANDING RWY 34

## CIRCLE-TO-LAND 1

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

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

**CHANGES:** Circling minimums.

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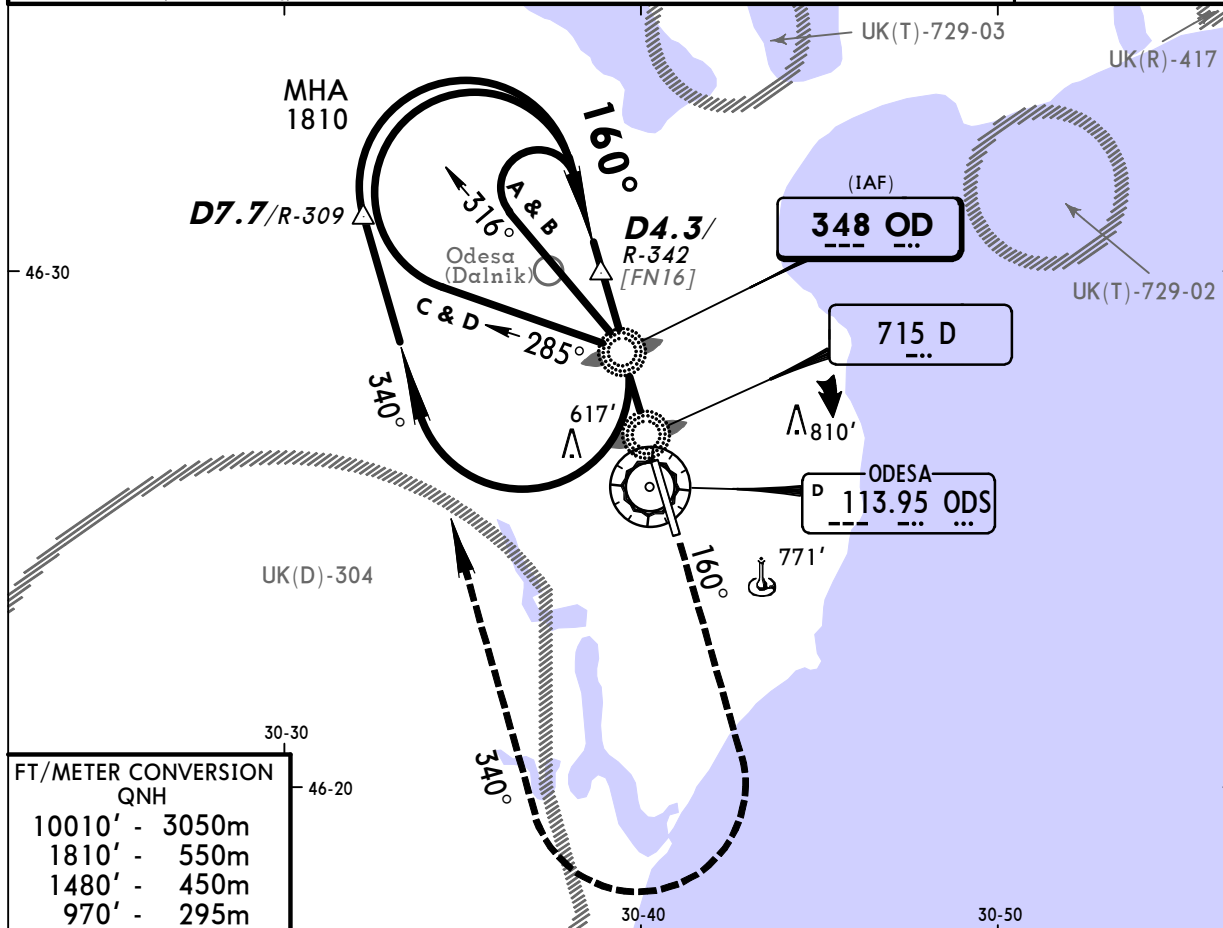
**UK00/ODS**  
**ODESA**

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

**ODESA, UKRAINE**  
**NDB Rwy 16**

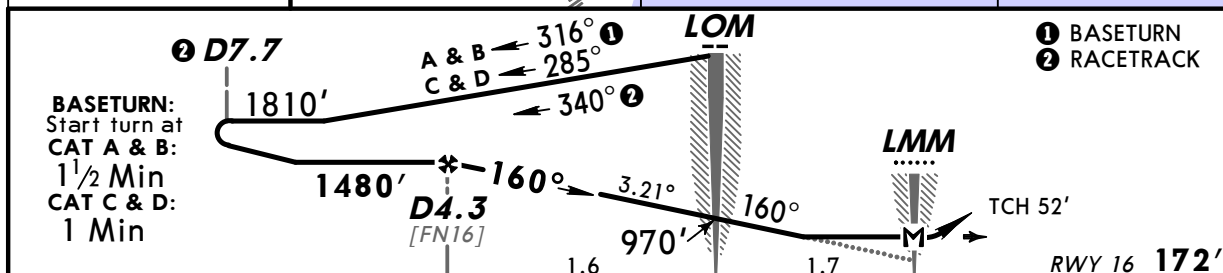
BRIEFING STRIP

| ATIS                                                                                    |                           | ODESA Approach                       |                       | ODESA Precision           | ODESA Tower                                       | Ground |
|-----------------------------------------------------------------------------------------|---------------------------|--------------------------------------|-----------------------|---------------------------|---------------------------------------------------|--------|
| 124.8                                                                                   |                           | 120.9                                | 127.7                 | 125.5                     | 125.5                                             | 121.8  |
| NDB<br>OD<br>348                                                                        | Final<br>Apch Crs<br>160° | Minimum Alt<br>D4.3<br>1480' (1308') | MDA(H)<br>680' (508') | Apt Elev 172'<br>RWY 172' | <div><div>1900'</div><div>MSA ODS VOR</div></div> |        |
| 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 | <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">HIALS PAPI</div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> <div style="text-align: center;">1810'</div> <div style="text-align: center;">on 160°</div> </div> </div> |
|---------------------|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) <b>680'</b> (508')  |  |     | Prohibited in sector<br>R-020 to R-120 |             |       |
|         |           |  | ALS out                    |  |     | Max<br>Kts                             | MDA(H)      | VIS   |
| A       | RVR 1000m |  | RVR 1500m                  |  |     | 100                                    | 920' (748') | 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**

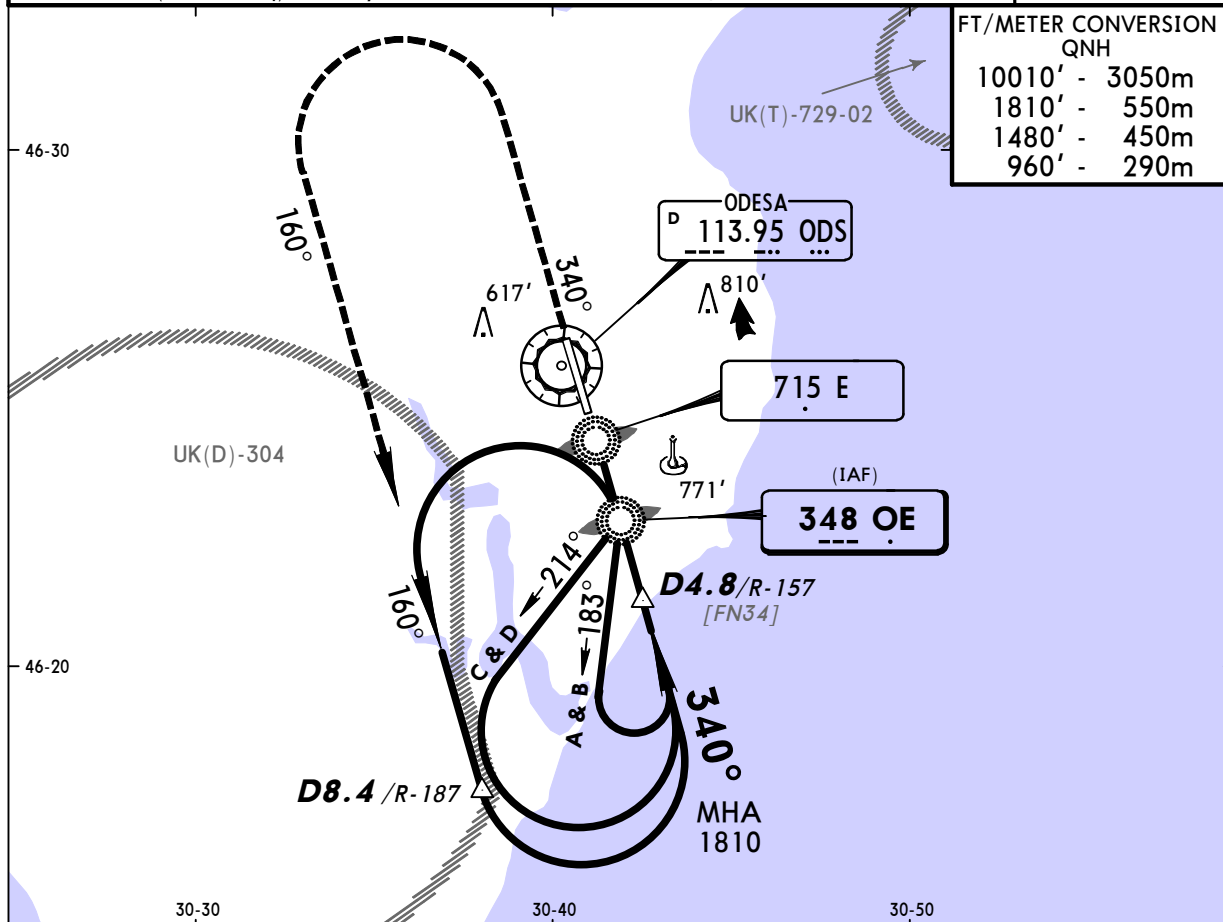
**JEPPesen**  
12 FEB 10 (16-2)

**ODESA, UKRAINE**  
**NDB Rwy 34**

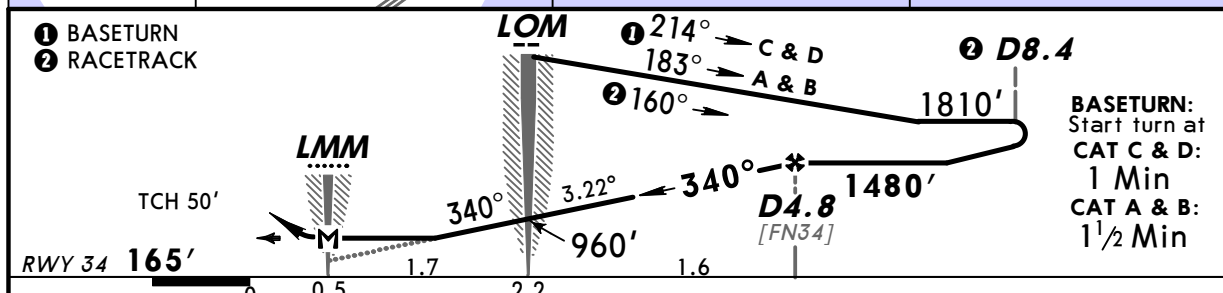
BRIEFING STRIP™

| ATIS                                                                                  |                           | ODESA Approach                       |                       | ODESA Precision           | ODESA Tower | Ground           |
|---------------------------------------------------------------------------------------|---------------------------|--------------------------------------|-----------------------|---------------------------|-------------|------------------|
| 124.8                                                                                 |                           | 120.9                                | 127.7                 | 125.5                     | 125.5       | 121.8            |
| NDB<br>OE<br>348                                                                      | Final<br>Apch Crs<br>340° | Minimum Alt<br>D4.8<br>1480' (1315') | MDA(H)<br>630' (465') | Apt Elev 172'<br>RWY 165' |             | <div>1900'</div> |
| 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      |

MSA ODS VOR



- ① BASETURN
- ② RACETRACK



| Gnd speed-Kts | 70    | 90  | 100 | 120 | 140 | 160 | <div style="border: 1px solid black; padding: 5px;">           HIALS PAPI<br/>1810' on 340°         </div> |
|---------------|-------|-----|-----|-----|-----|-----|------------------------------------------------------------------------------------------------------------|
| 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) <b>630'</b> (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