

## List of pages in this Trip Kit

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Airport Information For UKHH

Terminal Charts For UKHH

Revision Letter For Cycle 08-2013

Change Notices

Notebook

## General Information

Location: Kharkiv Ukr  
IATA Code: HRK  
Lat/Long: N49° 55.6' E036° 17.4'  
Elevation: 529 ft

Airport Use: Public  
Magnetic Variation: 8.0°E

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

Sunrise: 0243 Z  
Sunset: 1627 Z,

## Runway Information

Runway: 07  
Length x Width: 8202 ft x 148 ft  
Surface Type: concrete  
TDZ-Elev: 495 ft  
Lighting: Edge, ALS, Centerline, TDZ

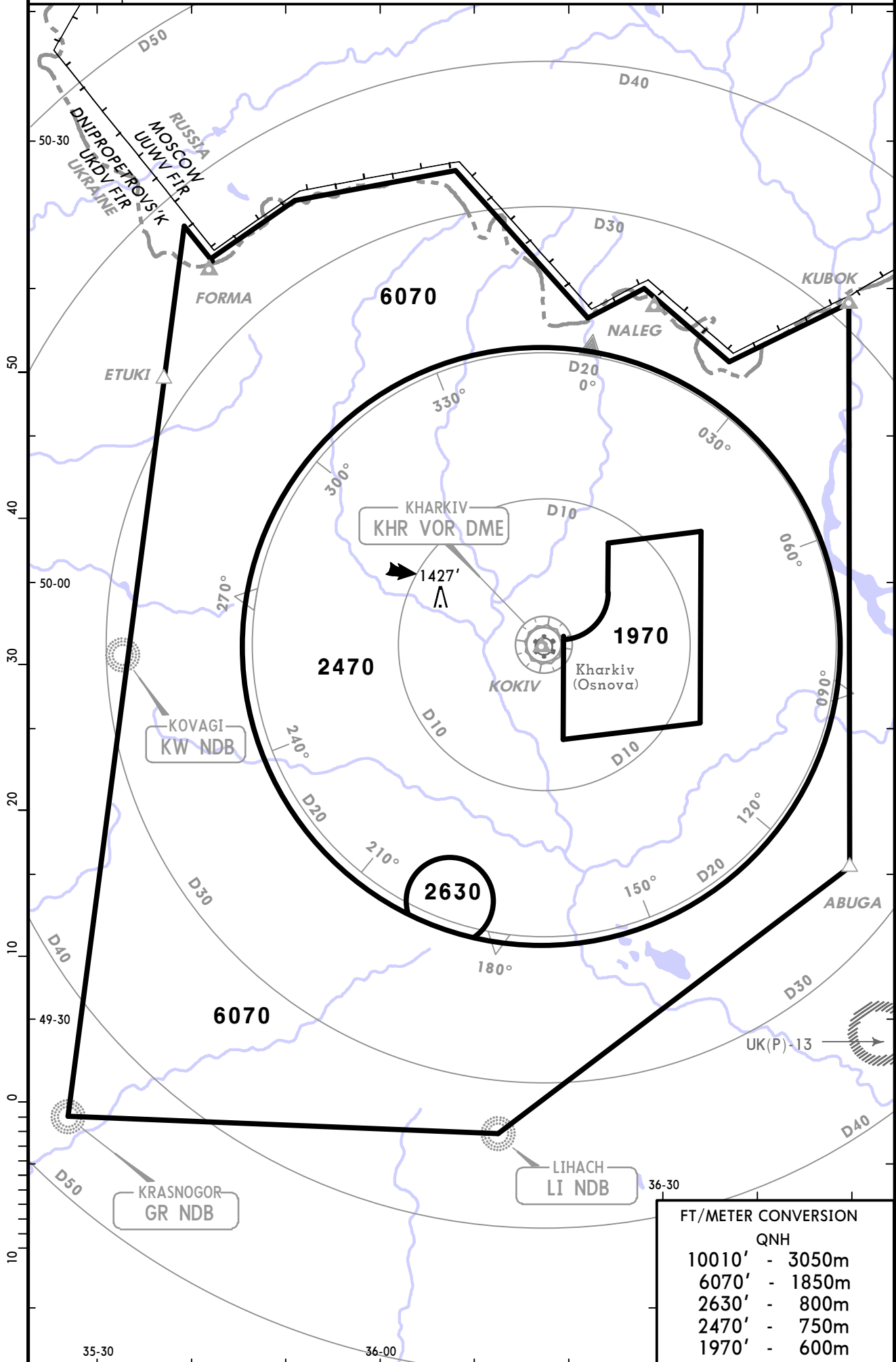
Runway: 25  
Length x Width: 8202 ft x 148 ft  
Surface Type: concrete  
TDZ-Elev: 529 ft  
Lighting: Edge, ALS, Centerline, TDZ

## Communication Information

ATIS 127.6 Non-English  
ATIS 126.75  
Kharkiv Tower 118.1 At or below 3900 ft  
Kharkiv Ground Control 133.25  
Kharkiv Approach Control 133.9  
Kharkiv Approach Control 132.125  
Kharkiv Approach Control 118.8

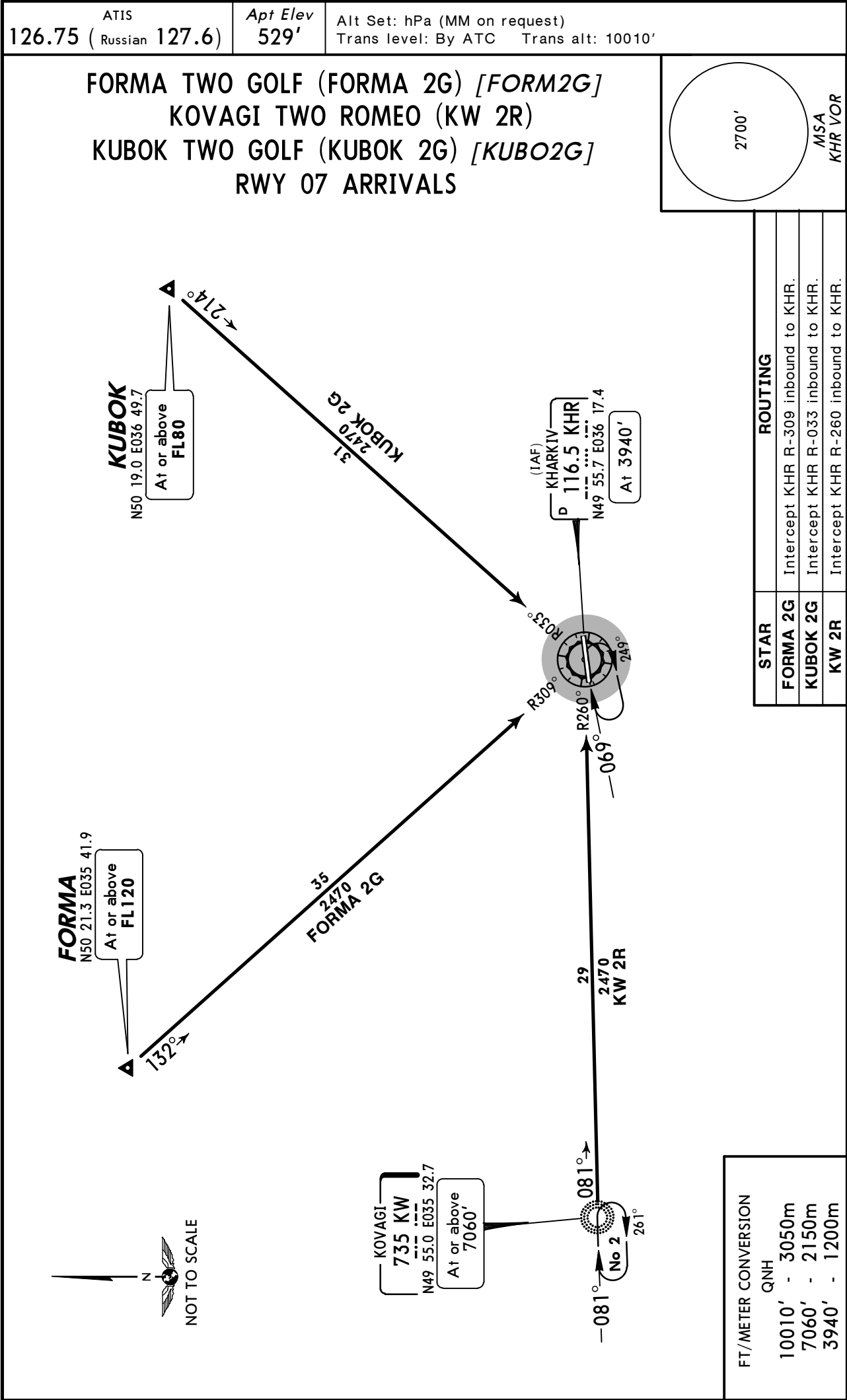
Apt Elev  
**529'**

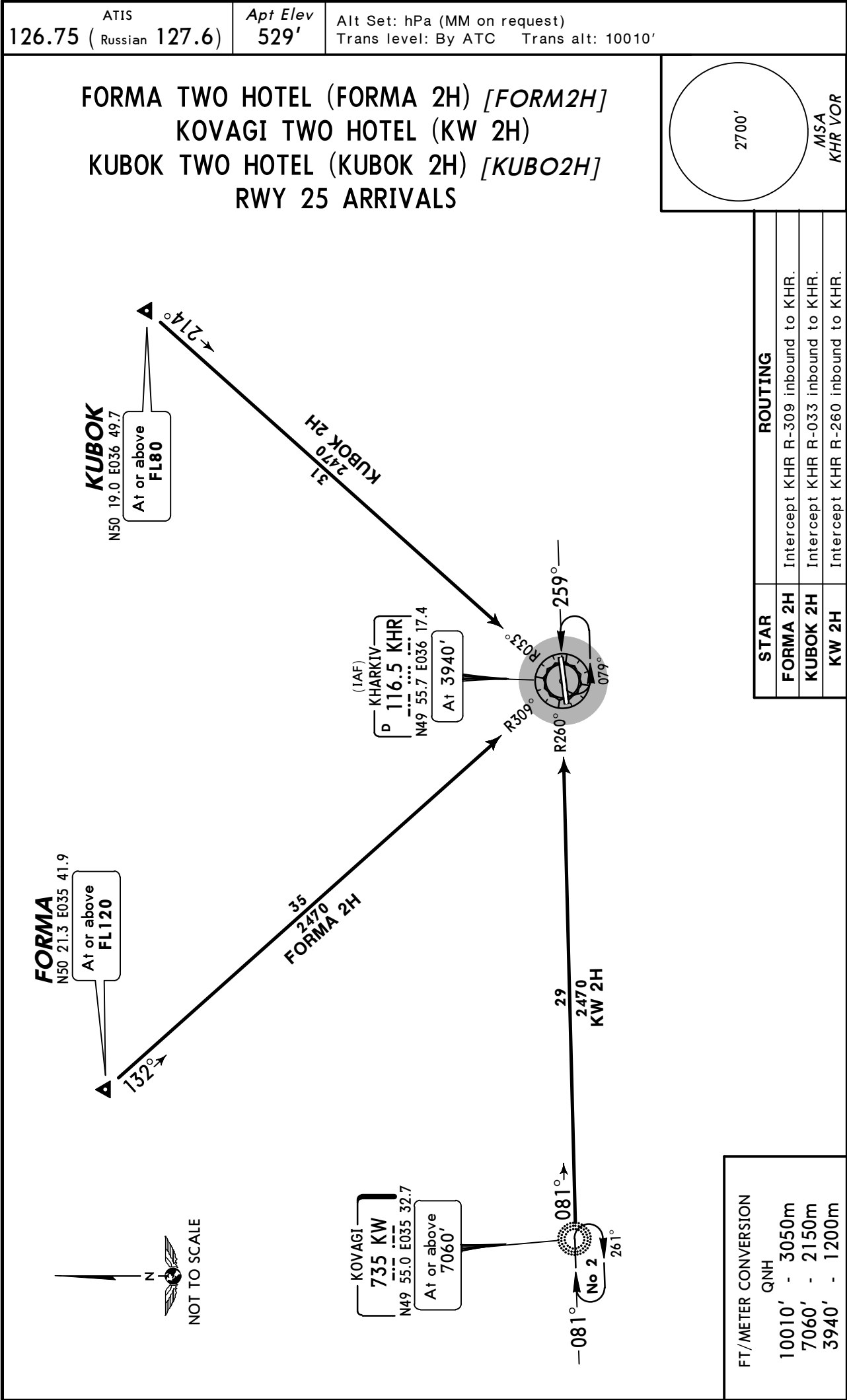
Alt Set: hPa (MM on request) Trans level: By ATC Trans alt: 10010'  
This chart may only be used for cross-checking of altitudes assigned while under radar control.



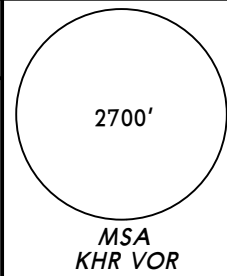
FT/METER CONVERSION

| QNH    |         |
|--------|---------|
| 10010' | - 3050m |
| 6070'  | - 1850m |
| 2630'  | - 800m  |
| 2470'  | - 750m  |
| 1970'  | - 600m  |





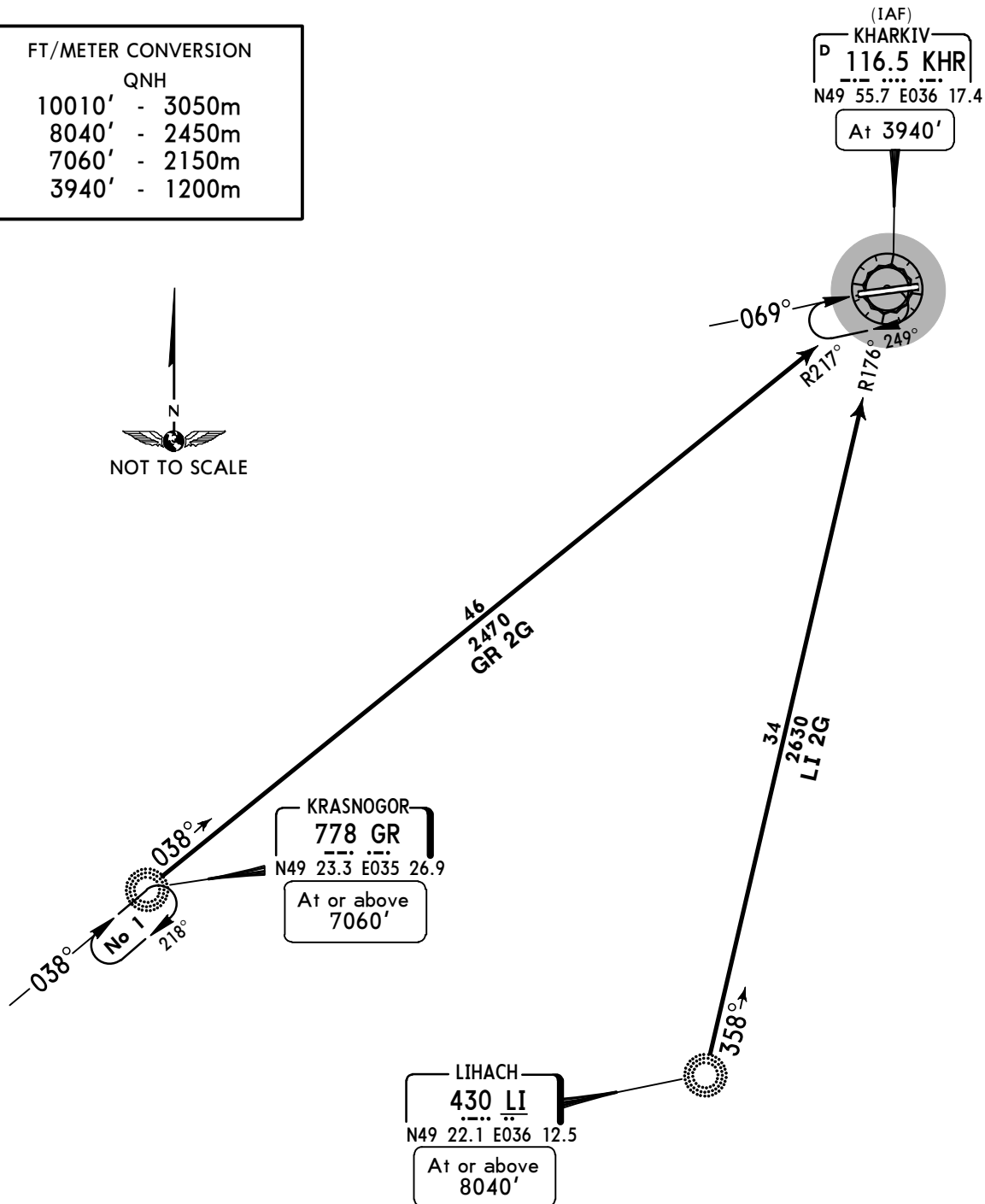
ATIS  
126.75 (Russian 127.6) Apt Elev 529'  
Alt Set: hPa (MM on request)  
Trans level: By ATC Trans alt: 10010'



KRASNOGOR TWO GOLF (GR 2G)  
LIHACH TWO GOLF (LI 2G)  
RWY 07 ARRIVALS

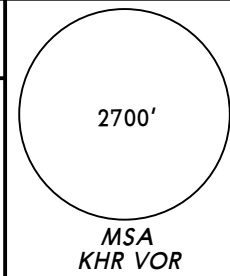
FT/METER CONVERSION

| QNH    |         |
|--------|---------|
| 10010' | - 3050m |
| 8040'  | - 2450m |
| 7060'  | - 2150m |
| 3940'  | - 1200m |



| STAR  | ROUTING                             |
|-------|-------------------------------------|
| GR 2G | Intercept KHR R-217 inbound to KHR. |
| LI 2G | Intercept KHR R-176 inbound to KHR. |

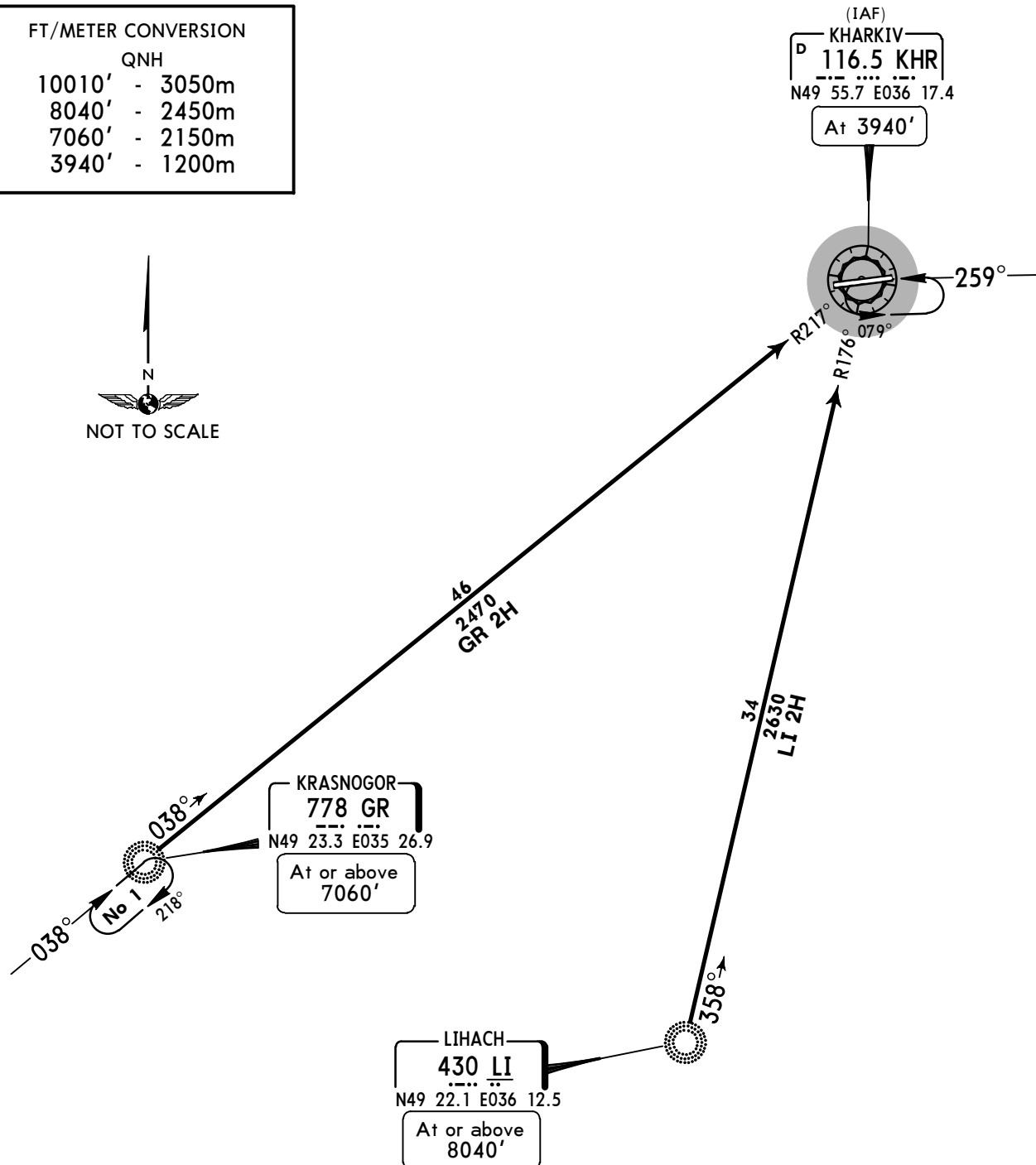
ATIS  
126.75 (Russian 127.6) Apt Elev 529'  
Alt Set: hPa (MM on request)  
Trans level: By ATC Trans alt: 10010'



KRASNOGOR TWO HOTEL (GR 2H)  
LIHACH TWO HOTEL (LI 2H)  
RWY 25 ARRIVALS

FT/METER CONVERSION

| QNH    |         |
|--------|---------|
| 10010' | - 3050m |
| 8040'  | - 2450m |
| 7060'  | - 2150m |
| 3940'  | - 1200m |



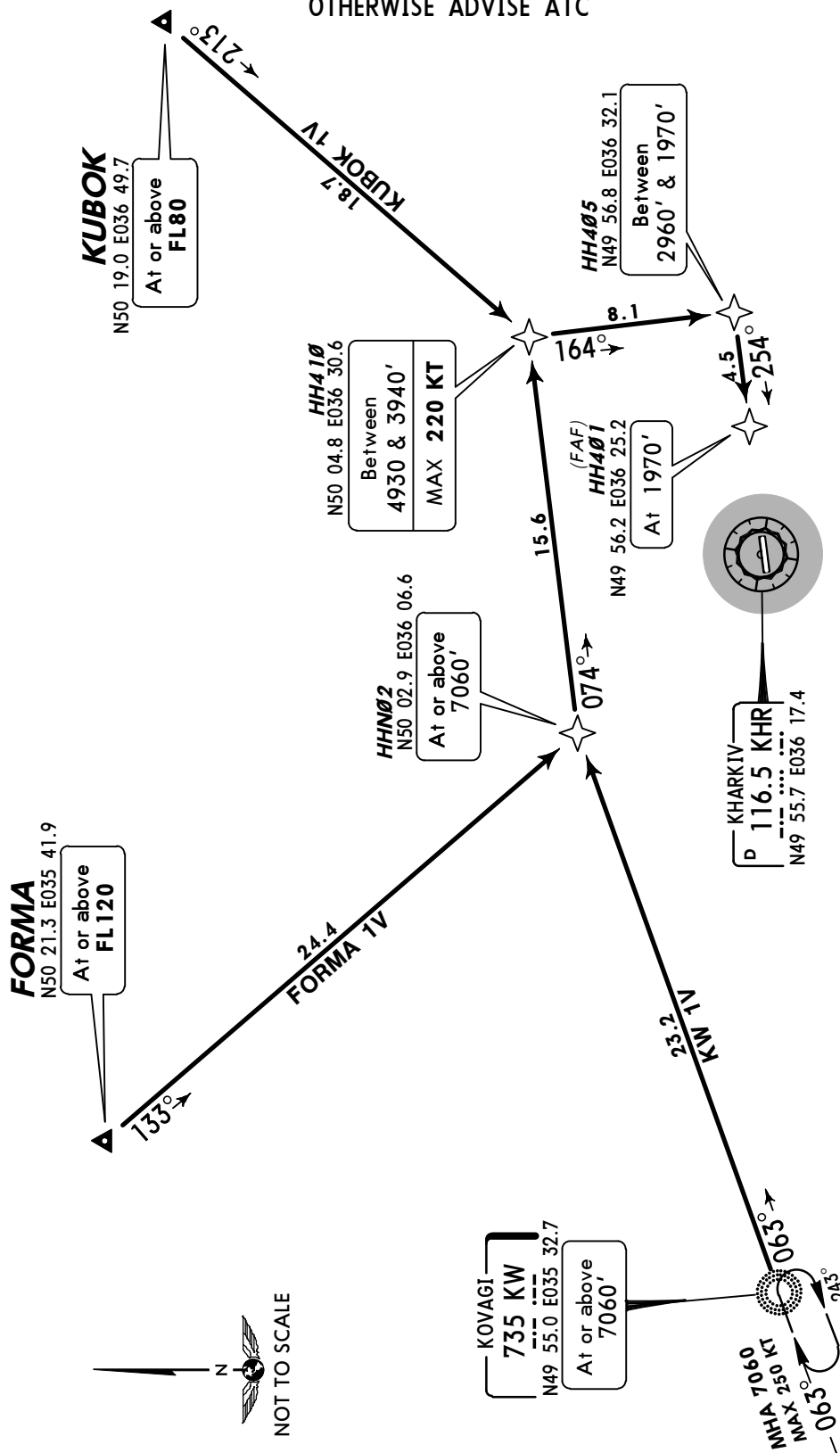
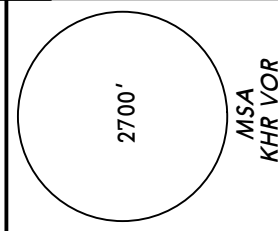
| STAR  | ROUTING                             |
|-------|-------------------------------------|
| GR 2H | Intercept KHR R-217 inbound to KHR. |
| LI 2H | Intercept KHR R-176 inbound to KHR. |

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ATIS  
126.75 (Russian 127.6)  
Apt Elev  
529'  
Alt Set: hPa (MM on request)  
Trans level: By ATC Trans alt: 10010'  
EXPECT RADAR vectors to final.

FORMA ONE VICTOR (FORMA 1V) [FORM1V]  
KOVAGI ONE VICTOR (KW 1V)  
KUBOK ONE VICTOR (KUBOK 1V) [KUBO1V]  
RWY 25 RNAV TRANSITIONS

RNAV (GNSS)  
RNAV 1 (P-RNAV) APPROVAL REQUIRED  
OTHERWISE ADVISE ATC



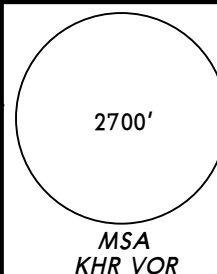
ROUTING

TRANSITION

|          |                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------|
| FORMA 1V | FORMA (FL120+) - HHN02 (7060'+) - HH410 (4930'-; 3940'+; K220-) - HH405 (2960'-; 1970'+) - HH401 (1970'). |
| KUBOK 1V | KUBOK (FL80+) - HH410 (4930'-; 3940'+; K220-) - HH405 (2960'-; 1970'+) - HH401 (1970').                   |
| KW 1V    | KW (7060'+) - HHN02 (7060'+) - HH410 (4930'-; 3940'+; K220-) - HH405 (2960'-; 1970'+) - HH401 (1970').    |

FT/METER CONVERSION

| QNH    |         |
|--------|---------|
| 10010' | - 3050m |
| 7060'  | - 2150m |
| 4930'  | - 1500m |
| 3940'  | - 1200m |
| 2960'  | - 900m  |
| 1970'  | - 600m  |

ATIS  
126.75 (Russian 127.6)Apt Elev  
529'Alt Set: hPa (MM on request)  
Trans level: By ATC Trans alt: 10010'  
EXPECT RADAR vectors to final.

KRASNOGOR ONE KILO (GR 1K)

LIHACH ONE KILO (LI 1K)

RWY 07 RNAV TRANSITIONS

RNAV (GNSS)

RNAV 1 (P-RNAV) APPROVAL REQUIRED

OTHERWISE ADVISE ATC

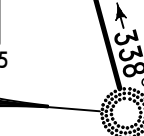
## FT/METER CONVERSION

QNH

|        |   |       |
|--------|---|-------|
| 10010' | - | 3050m |
| 8040'  | - | 2450m |
| 7060'  | - | 2150m |
| 6070'  | - | 1850m |
| 4930'  | - | 1500m |
| 3940'  | - | 1200m |
| 2960'  | - | 900m  |
| 2470'  | - | 750m  |

KRASNOGOR  
778 GR  
N49 23.3 E035 26.9At or above  
7060'MHA 7060  
MAX 250 KT  
034°  
214°34.2  
GR 1K(FAF)  
HH201  
N49 54.8 E036 07.2  
At 2470'HH203  
N49 54.2 E036 00.2  
At 2960'HHS01  
N49 49.2 E036 01.2Between  
3940' & 2960'

MAX 220 KT

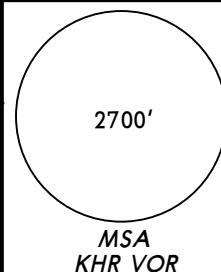
HHS03  
N49 40.0 E036 04.7Between  
6070' & 4930'19.5  
LI 1KLIHACH  
430 LI  
N49 22.1 E036 12.5At or above  
8040'

| TRANSITION | ROUTING                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------|
| GR 1K      | GR (7060'+) - HHS01 (3940'-; 2960'+; K220-) - HH203 (2960') - HH201 (2470').                          |
| LI 1K      | LI (8040'+) - HHS03 (6070'-; 4930'+) - HS001 (3940'-; 2960'+; K220-) - HH203 (2960') - HH201 (2470'). |

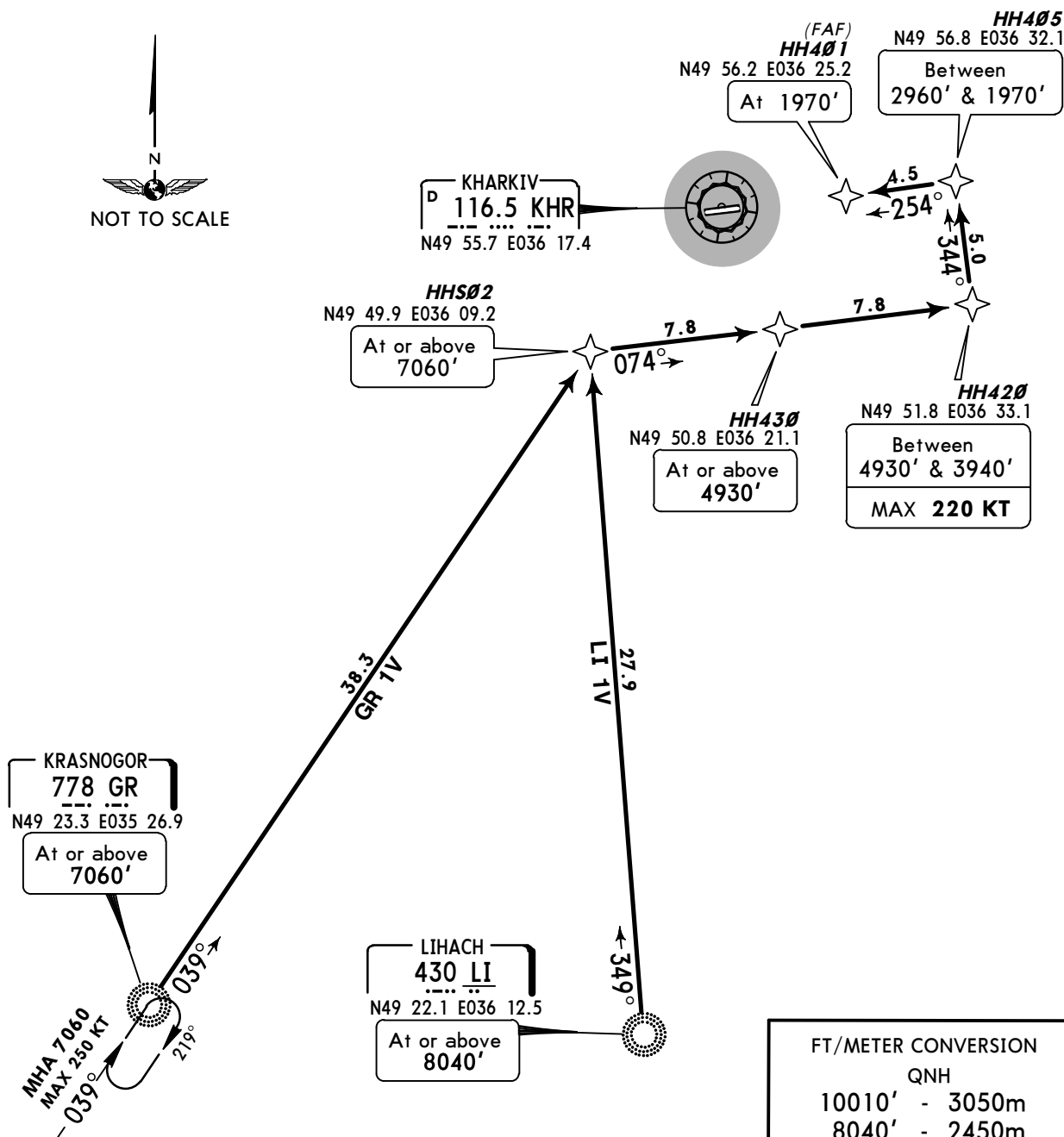
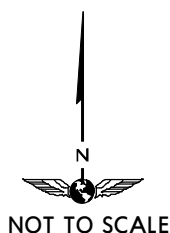
ATIS  
126.75 (Russian 127.6)

Apt Elev  
529'

Alt Set: hPa (MM on request)  
Trans level: By ATC Trans alt: 10010'  
EXPECT RADAR vectors to final.



**KRASNOGOR ONE VICTOR (GR 1V)**  
**LIHACH ONE VICTOR (LI 1V)**  
**RWY 25 RNAV TRANSITIONS**  
RNAV (GNSS)  
RNAV 1 (P-RNAV) APPROVAL REQUIRED  
OTHERWISE ADVISE ATC



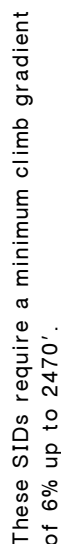
| FT/METER CONVERSION |         |
|---------------------|---------|
| QNH                 |         |
| 10010'              | - 3050m |
| 8040'               | - 2450m |
| 7060'               | - 2150m |
| 4930'               | - 1500m |
| 3940'               | - 1200m |
| 2960'               | - 900m  |
| 1970'               | - 600m  |

| TRANSITION   | ROUTING                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>GR 1V</b> | GR (7060'+) - HHS02 (7060'+) - HH430 (4930'+) - HH420 (4930'-; 3940'+; K220-) - HH405 (2960'-; 1970'+) - HH401 (1970'). |
| <b>LI 1V</b> | LI (8040'+) - HHS02 (7060'+) - HH430 (4930'+) - HH420 (4930'-; 3940'+; K220-) - HH405 (2960'-; 1970'+) - HH401 (1970'). |

Trans level: By ATC      Trans alt: 10010'

2700'

MSA  
KHR VOR



|              |     |     |     |      |      |      |
|--------------|-----|-----|-----|------|------|------|
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

## FT/METER CONVERSION

|        |   |       |
|--------|---|-------|
| 10010' | - | 3050m |
| 8040'  | - | 2450m |
| 4930'  | - | 1500m |
| 3940'  | - | 1200m |
| 2470'  | - | 750m  |

| SID      | ROUTING                                                                    |
|----------|----------------------------------------------------------------------------|
| ETUKI 1E | HH105 (2470'+) - HHN03 (3940'+; 4930'-) - HHN01 (8040'+) - ETUKI (8040'+). |
| KUBOK 1Q | HH105 (2470'+) - HHN03 (3940'+; 4930'-) - KUBOK (FL70+).                   |
| NALEG 1E | HH105 (2470'+) - HHN03 (3940'+; 4930'-) - NALEG (FL70+).                   |

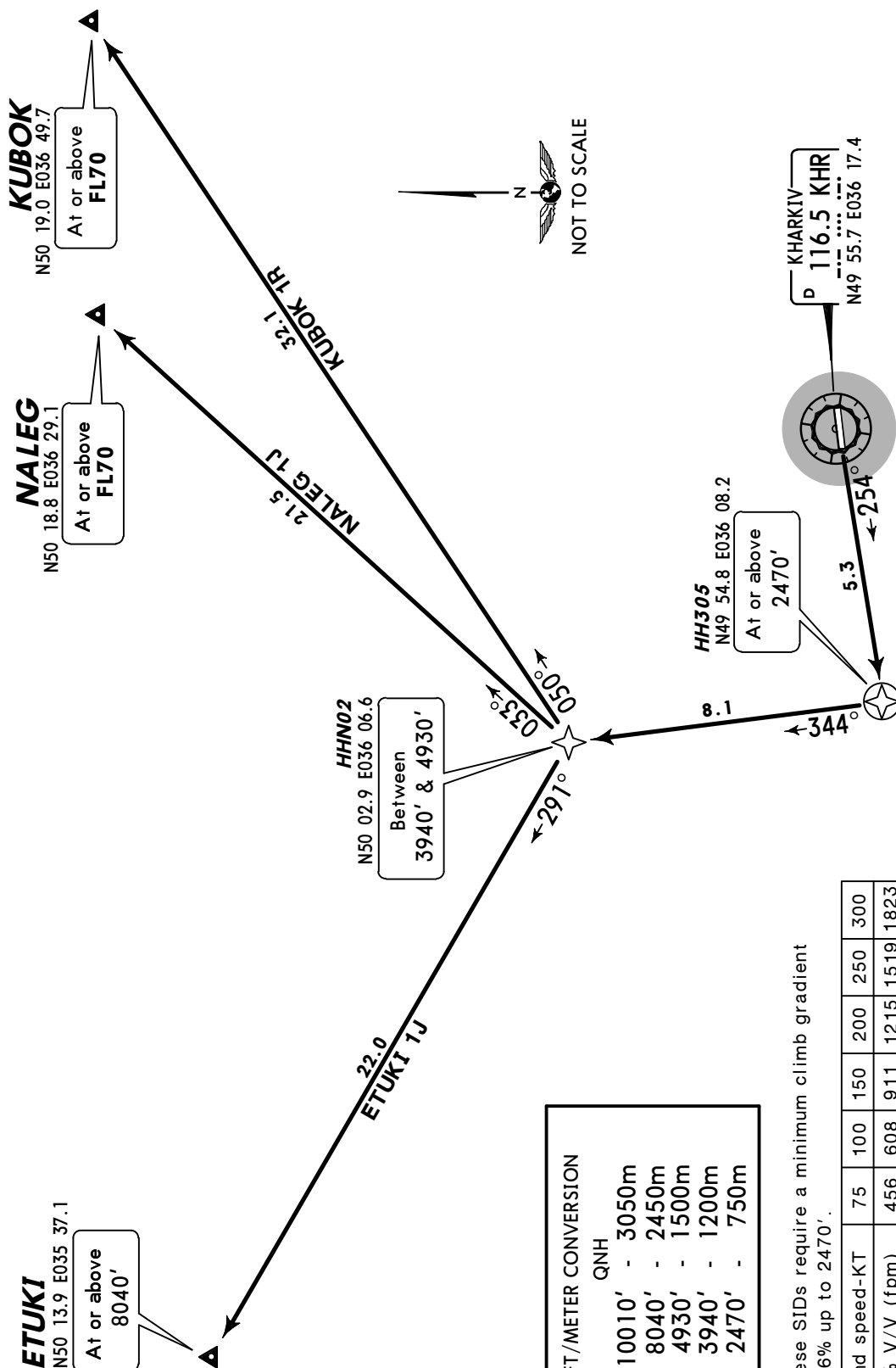
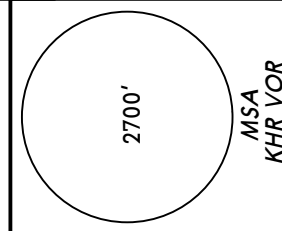
Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'

ETUKI ONE JULIETT (ETUKI 1J) [ETUK1J]  
KUBOK ONE ROMEO (KUBOK 1R) [KUBO1R]  
NALEG ONE JULIETT (NALEG 1J) [NALE1J]

## RWY 25 RNAV DEPARTURES

RNAV (GNSS)  
RNAV 1 (P-RNAV) APPROVAL REQUIRED  
OTHERWISE ADVISE ATC



Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'

ABUGA ONE ECHO (ABUGA 1E) [ABUG1E]  
KOVAGI ONE ECHO (KW 1E)  
KRASNOGOR ONE ECHO (GR 1E)  
LIHACH ONE ECHO (LI 1E)  
RWY 07 RNAV DEPARTURES

RNAV (GNSS)

RNAV 1 (P-RNAV) APPROVAL REQUIRED  
OTHERWISE ADVISE ATCThese SIDs require a minimum climb gradient  
of 6% up to 2470'.

| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

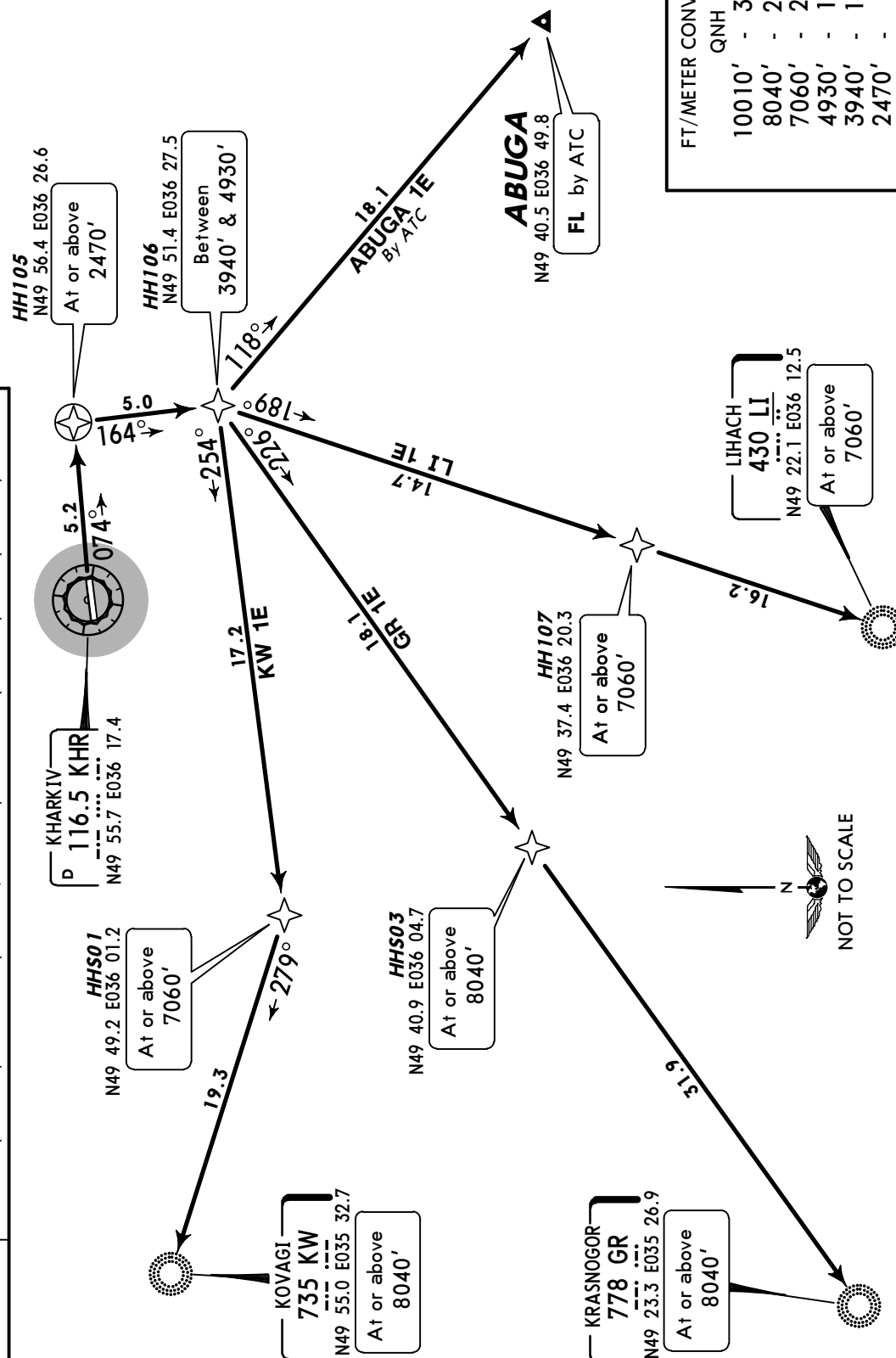
| FT/METER CONVERSION |         |
|---------------------|---------|
| QNH                 |         |
| 10010'              | - 3050m |
| 8040'               | - 2450m |
| 7060'               | - 2150m |
| 4930'               | - 1500m |
| 3940'               | - 1200m |
| 2470'               | - 750m  |

2700'

MSA  
KHR VOR

## ROUTING

| SID                | ROUTING                                                                 |
|--------------------|-------------------------------------------------------------------------|
| ABUGA 1E<br>By ATC | HH105 (2470'+) - HH106 (3940'+; 4930'-) - ABUGA (FL BY ATC).            |
| GR 1E              | HH105 (2470'+) - HH106 (3940'+; 4930'-) - HHS03 (8040'+) - GR (8040'+). |
| KW 1E              | HH105 (2470'+) - HH106 (3940'+; 4930'-) - HHS01 (7060'+) - KW (8040'+). |
| LI 1E              | HH105 (2470'+) - HH106 (3940'+; 4930'-) - HH107 (7060'+) - LI (7060'+). |



Trans level: By ATC      Trans alt: 10010'

2700'

MSA  
KHR VOR

QNH

|        |   |       |
|--------|---|-------|
| 10010' | - | 3050m |
| 8040'  | - | 2450m |
| 7060'  | - | 2150m |
| 4930'  | - | 1500m |
| 3940'  | - | 1200m |
| 2470'  | - | 750m  |

These SIDs require a minimum climb gradient of 6% up to 2470'.

| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

**HH305**  
N49 54.8 E036 08.2  
At or above 2470'

**KHARKIV**  
D 116.5 KHR  
N49 55.7 E036 17.4

**KOVAGI**  
735 KW  
N49 55.0 E035 32.7  
At or above 8040'

**KRASNOGOR**  
778 GR  
N49 23.3 E035 26.9  
At or above 8040'

**LIHACH**  
430 LI  
N49 22.1 E036 12.5  
At or above 7060'

**ABUGA**  
N49 40.5 E036 12.5  
FL by A

**ABUGA 1J**  
By ATC

**LI 1J**

**GR 1J**

**KW 1J**

22.9  
27.9  
38.3  
5.0  
5.3  
28.0

164°  
167°  
100°  
217°  
254°  
262°

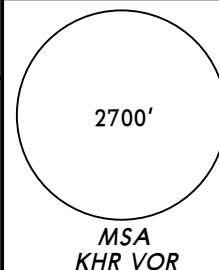
Between 3940' & 4930'

N

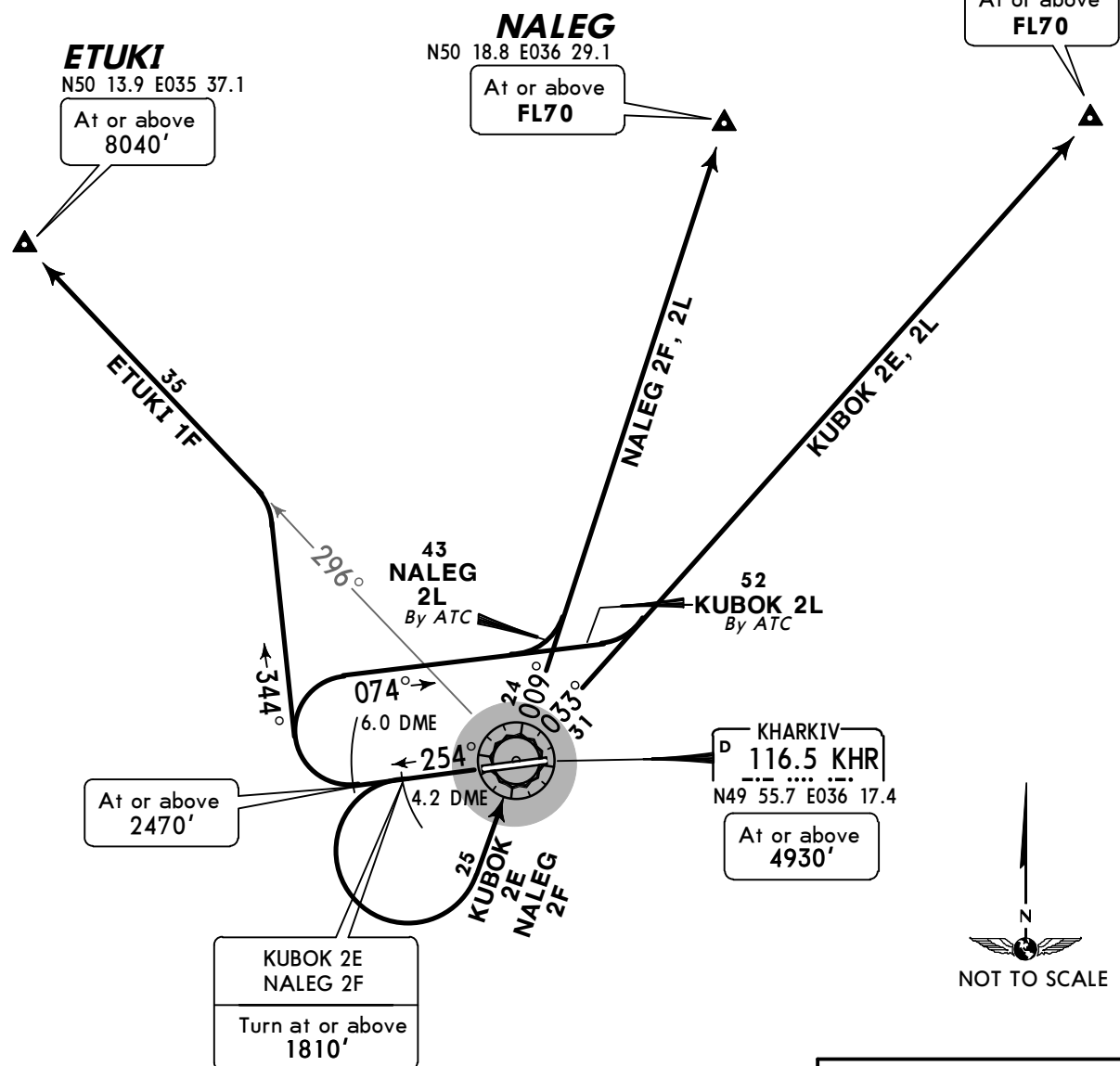
NOT TO SCALE

Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'



ETUKI ONE FOXTROT (ETUKI 1F) [ETUK1F]  
KUBOK TWO ECHO (KUBOK 2E) [KUBO2E]  
KUBOK TWO LIMA (KUBOK 2L) [KUBO2L]  
NALEG TWO FOXTROT (NALEG 2F) [NALE2F]  
NALEG TWO LIMA (NALEG 2L) [NALE2L]  
RWY 25 DEPARTURES



These SIDs require a minimum climb gradient of  
**KUBOK 2E, NALEG 2F:** 6% up to 1810'.  
**ETUKI 1F, KUBOK 2L, NALEG 2L:** 6% up to 2470'.

|              |     |     |     |      |      |      |
|--------------|-----|-----|-----|------|------|------|
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

## FT/METER CONVERSION

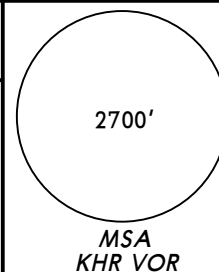
QNH

|        |   |       |
|--------|---|-------|
| 1810'  | - | 550m  |
| 2470'  | - | 750m  |
| 4930'  | - | 1500m |
| 8040'  | - | 2450m |
| 10010' | - | 3050m |

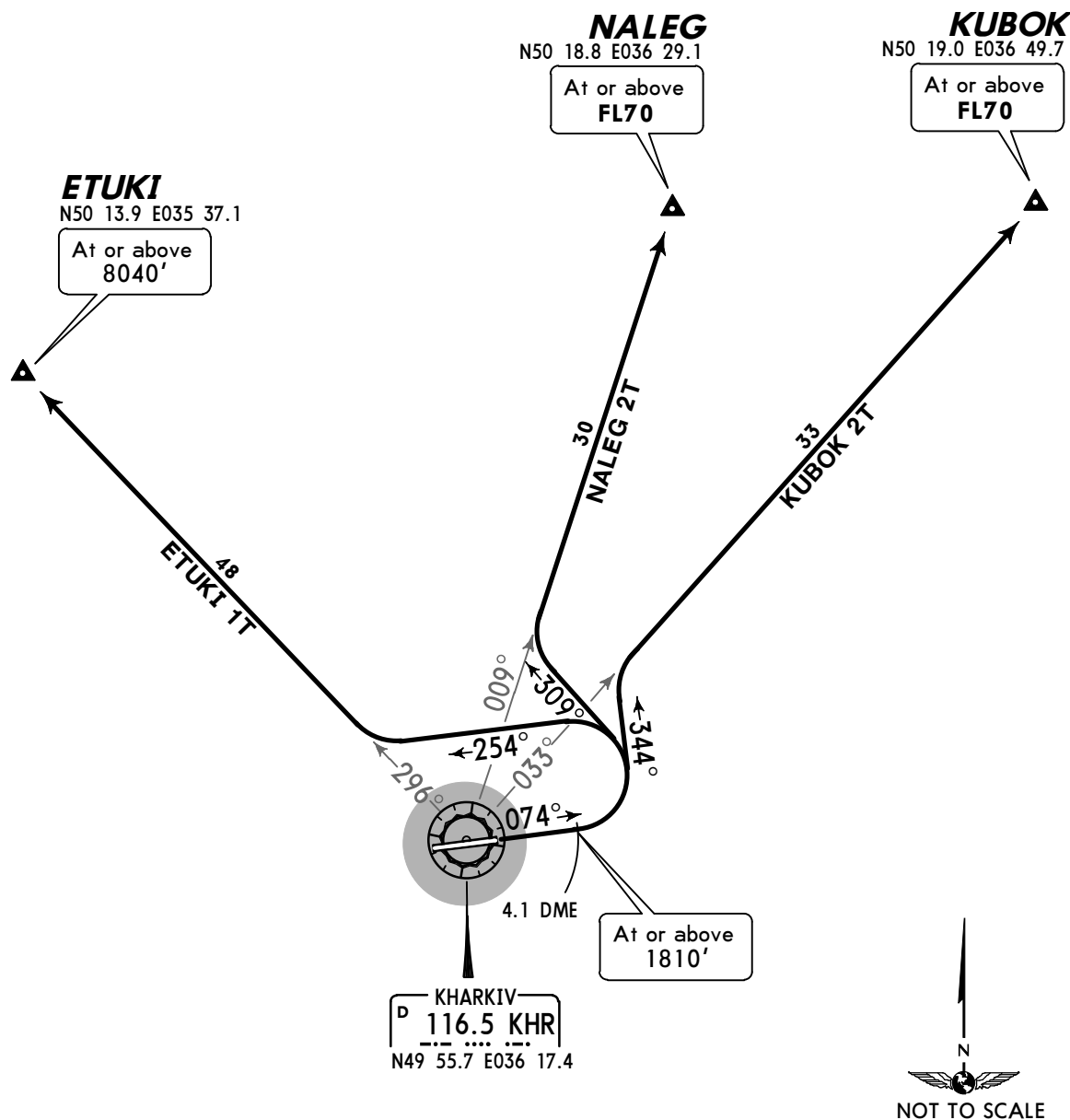
| SID                       | ROUTING                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------|
| <b>ETUKI 1F</b>           | Climb on 254° track to KHR 6.0 DME, turn RIGHT, 344° track, intercept KHR R-296 to ETUKI. |
| <b>KUBOK 2E</b>           | Climb on 254° track to KHR 4.2 DME, turn LEFT to KHR, KHR R-033 to KUBOK.                 |
| <b>KUBOK 2L</b><br>By ATC | Climb on 254° track to KHR 6.0 DME, turn RIGHT, 074° track, intercept KHR R-033 to KUBOK. |
| <b>NALEG 2F</b>           | Climb on 254° track to KHR 4.2 DME, turn LEFT to KHR, KHR R-009 to NALEG.                 |
| <b>NALEG 2L</b><br>By ATC | Climb on 254° track to KHR 6.0 DME, turn RIGHT, 074° track, intercept KHR R-009 to NALEG. |

Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'



ETUKI ONE TANGO (ETUKI 1T) [ETUK1T]  
KUBOK TWO TANGO (KUBOK 2T) [KUBO2T]  
NALEG TWO TANGO (NALEG 2T) [NALE2T]  
RWY 07 DEPARTURES



These SIDs require a minimum climb gradient  
of  
6% up to 1810'.

|              |     |     |     |      |      |      |
|--------------|-----|-----|-----|------|------|------|
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

## FT/METER CONVERSION

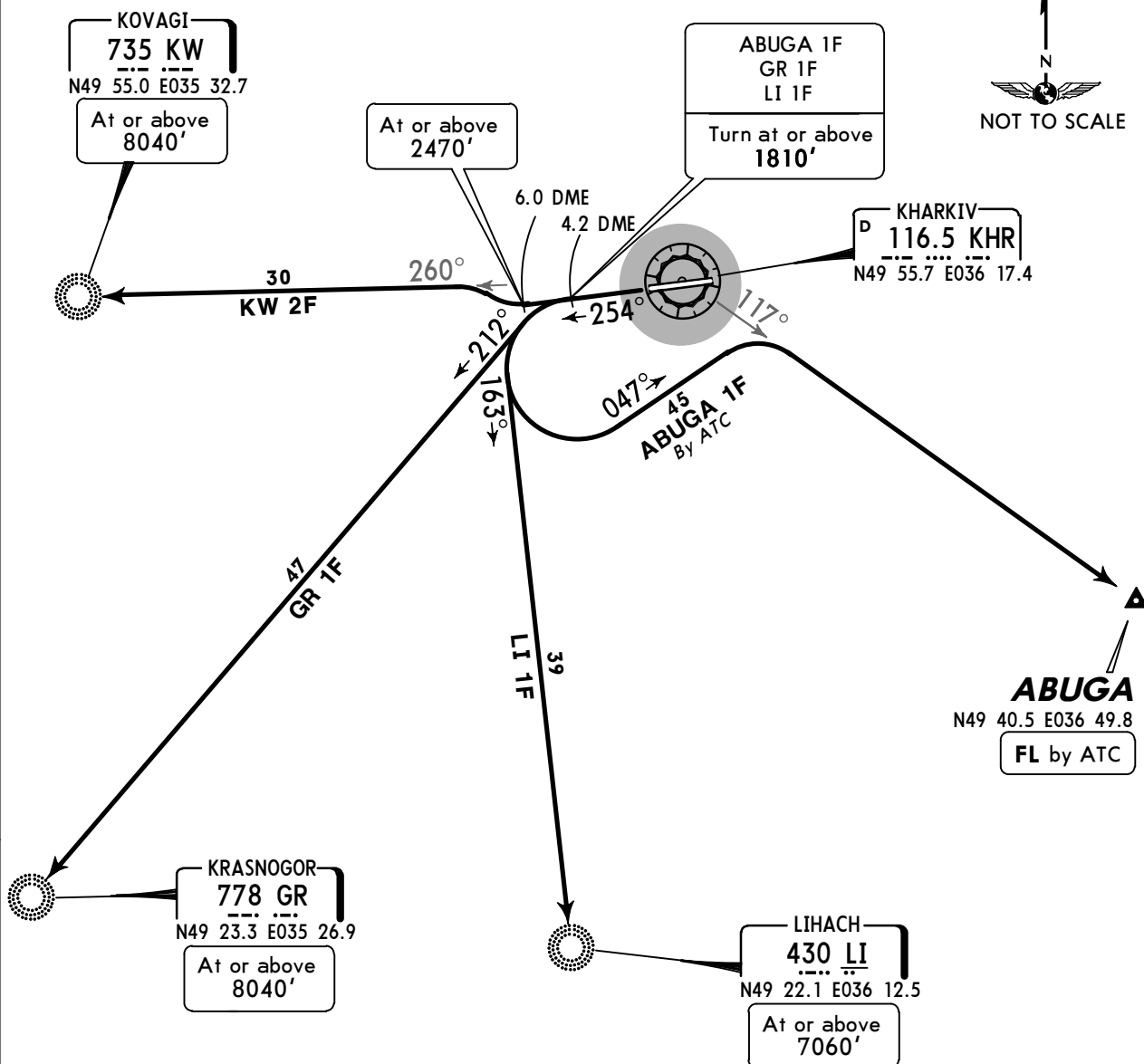
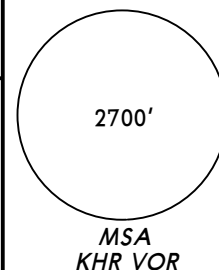
|        |         |
|--------|---------|
|        | QNH     |
| 1810'  | - 550m  |
| 8040'  | - 2450m |
| 10010' | - 3050m |

| SID             | ROUTING                                                                                  |
|-----------------|------------------------------------------------------------------------------------------|
| <b>ETUKI 1T</b> | Climb on 074° track to KHR 4.1 DME, turn LEFT, 254° track, intercept KHR R-296 to ETUKI. |
| <b>KUBOK 2T</b> | Climb on 074° track to KHR 4.1 DME, turn LEFT, 344° track, intercept KHR R-033 to KUBOK. |
| <b>NALEG 2T</b> | Climb on 074° track to KHR 4.1 DME, turn LEFT, 309° track, intercept KHR R-009 to NALEG. |

Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'

ABUGA ONE FOXTROT (ABUGA 1F) [ABUG1F]  
KOVAGI TWO FOXTROT (KW 2F)  
KRASNOGOR ONE FOXTROT (GR 1F)  
LIHACH ONE FOXTROT (LI 1F)  
RWY 25 DEPARTURES



These SIDs require a minimum climb gradient of

**ABUGA 1F, GR 1F, LI 1F:** 6% up to 1810'.

**KW 2F:** 6% up to 2470'.

|              |     |     |     |      |      |      |
|--------------|-----|-----|-----|------|------|------|
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

## FT/METER CONVERSION

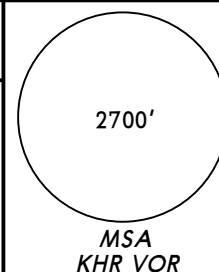
QNH

|        |   |       |
|--------|---|-------|
| 1810'  | - | 550m  |
| 2470'  | - | 750m  |
| 7060'  | - | 2150m |
| 8040'  | - | 2450m |
| 10010' | - | 3050m |

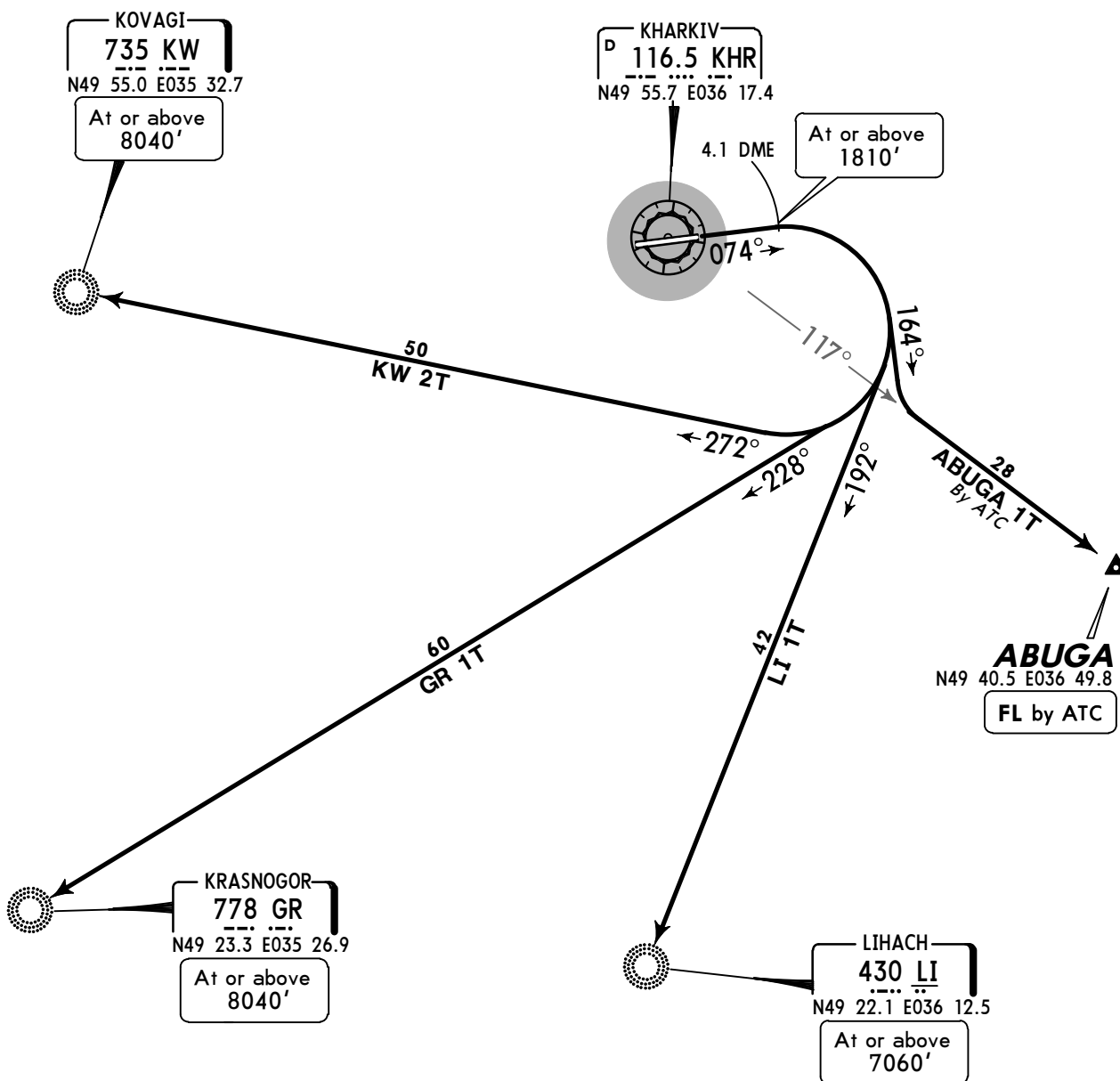
| SID                       | ROUTING                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------|
| <b>ABUGA 1F</b><br>By ATC | Climb on 254° track to KHR 4.2 DME, turn LEFT, 047° track, intercept KHR R-117 to ABUGA. |
| <b>GR 1F</b>              | Climb on 254° track to KHR 4.2 DME, turn LEFT, intercept 212° bearing to GR.             |
| <b>KW 2F</b>              | Climb on 254° track to KHR 6.0 DME, turn RIGHT, intercept KHR R-260 to KW.               |
| <b>LI 1F</b>              | Climb on 254° track to KHR 4.2 DME, turn LEFT, intercept 163° bearing to LI.             |

Apt Elev  
529'

Trans level: By ATC Trans alt: 10010'



ABUGA ONE TANGO (ABUGA 1T) [ABUG1T]  
KOVAGI TWO TANGO (KW 2T)  
KRASNOGOR ONE TANGO (GR 1T)  
LIHACH ONE TANGO (LI 1T)  
RWY 07 DEPARTURES



## FT/METER CONVERSION

|        | QNH     |
|--------|---------|
| 1810'  | - 550m  |
| 7060'  | - 2150m |
| 8040'  | - 2450m |
| 10010' | - 3050m |



These SIDs require a minimum climb gradient of 6% up to 1810'.

| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 6% V/V (fpm) | 456 | 608 | 911 | 1215 | 1519 | 1823 |

If unable to comply advise ATC.

| SID                | ROUTING                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------|
| ABUGA 1T<br>By ATC | Climb on 074° track to KHR 4.1 DME, turn RIGHT, 164° track, intercept KHR R-117 to ABUGA. |
| GR 1T              | Climb on 074° track to KHR 4.1 DME, turn RIGHT, intercept 228° bearing to GR.             |
| KW 2T              | Climb on 074° track to KHR 4.1 DME, turn RIGHT, intercept 272° bearing to KW.             |
| LI 1T              | Climb on 074° track to KHR 4.1 DME, turn RIGHT, intercept 192° bearing to LI.             |

UKHH/HRK

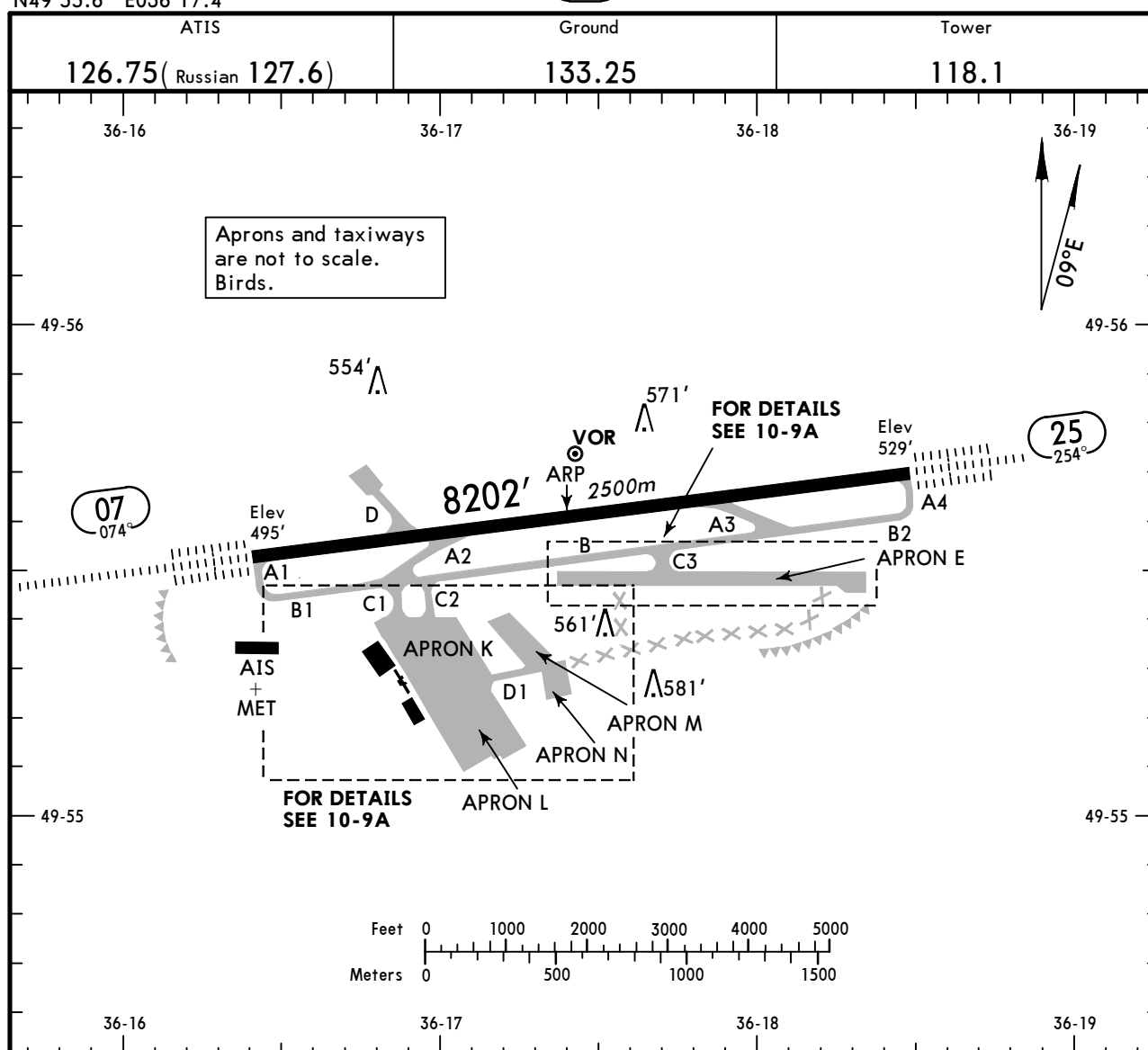
Apt Elev 529'  
N49 55.6 E036 17.4

JEPPESEN

27 JUL 12 (10-9)

KHARKIV, UKRAINE

OSNOVA



## ADDITIONAL RUNWAY INFORMATION

| RWY |                                               | USABLE LENGTHS |             |          |             |
|-----|-----------------------------------------------|----------------|-------------|----------|-------------|
|     |                                               | LANDING BEYOND |             | TAKE-OFF | WIDTH       |
|     |                                               | Threshold      | Glide Slope |          |             |
| 07  | HIRL (60m) CL (15m) HIALS-II TDZ ① HST-A3 RVR |                | 7108' 2167m | ②        | 148'<br>45m |
| 25  | HIRL (60m) CL (15m) HIALS-II TDZ ① HST-A2 RVR |                | 6987' 2130m |          |             |

① PAPI-L (3.0°)

② TAKE-OFF RUN AVAILABLE

RWY 07:

From rwy head/twy A1 int 8202' (2500m)  
 twy A2 int 5249' (1600m)

RWY 25:

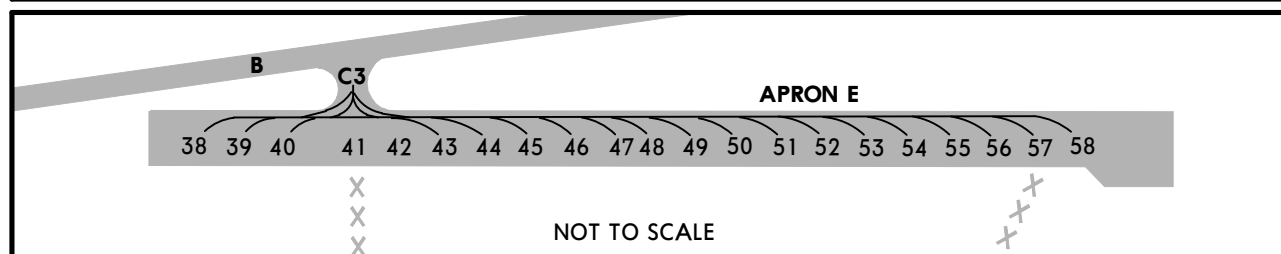
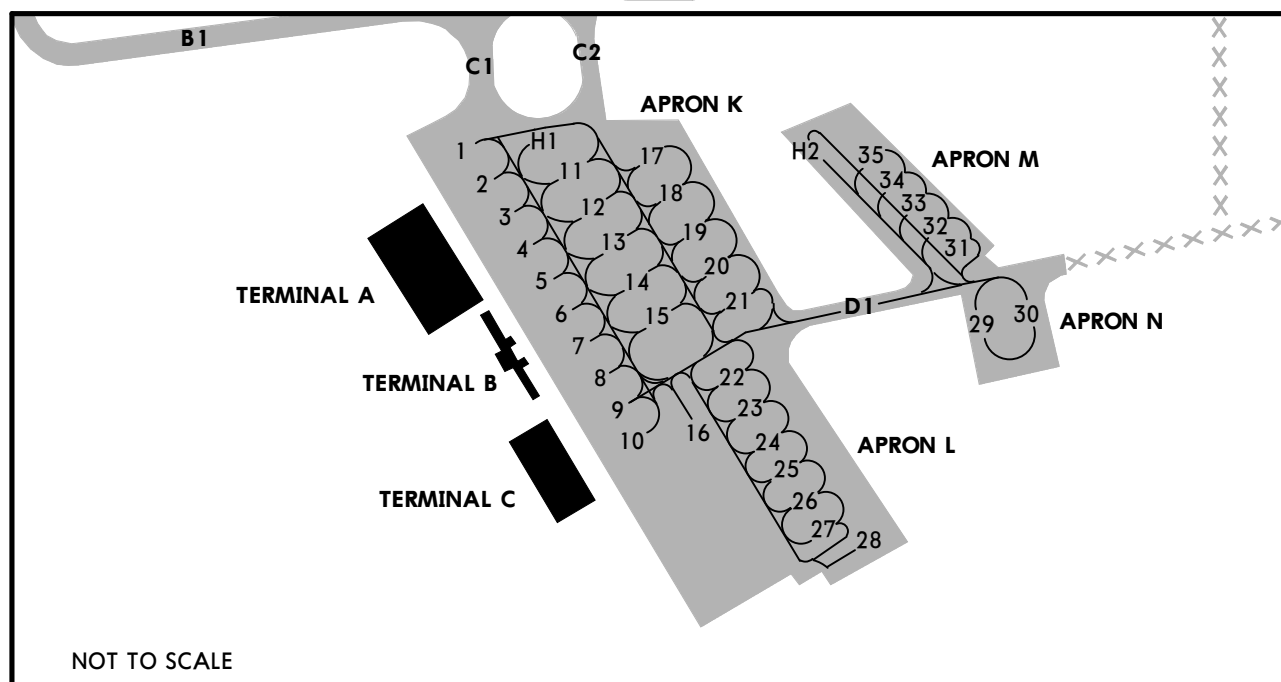
From rwy head/twy A4 int 8202' (2500m)  
 twy A3 int 5249' (1600m)

## JAR-OPS

## TAKE-OFF ①

|   | All Rwys                                          |                           |         |                          |                          |
|---|---------------------------------------------------|---------------------------|---------|--------------------------|--------------------------|
|   | LVP must be in force                              |                           |         |                          |                          |
|   | Approved Operators<br>HIRL, CL<br>& mult. RVR req | RL, CL<br>& mult. RVR req | RL & CL | RCLM (DAY only)<br>or RL | RCLM (DAY only)<br>or RL |
| A |                                                   |                           |         |                          |                          |
| B | 125m                                              | 150m                      | 200m    | 250m                     | 400m                     |
| C |                                                   |                           |         |                          |                          |
| D | 150m                                              | 200m                      | 250m    | 300m                     | 500m                     |

① Operators applying U.S. Ops Specs: CL required below 300m; approved HUD required below 150m.



Taxiing on aprons with Follow-me car.  
 Movement of acft are prohibited without controller's clearance.  
 Stands 7, H1 and H2 available for helicopter.  
 Stands 1 thru 10 with push back only.  
 Stands 29 and 30 available for run-up.  
 Stands 38 thru 58 facing North with push back only.

| STRAIGHT-IN RWY |         | A           | B           | C           | D           |
|-----------------|---------|-------------|-------------|-------------|-------------|
| 07              | ILS     | 712'(217')  | 722'(227')  | 731'(236')  | 741'(246')  |
|                 | FULL    | R550m       | R550m       | R550m       | R550m       |
|                 | Limited | R750m       | R750m       | R750m       | R750m       |
|                 | ALS out | R1200m      | R1200m      | R1200m      | R1300m      |
|                 | VOR ❶   | 940'(445')  | 940'(445')  | 940'(445')  | 940'(445')  |
|                 | ALS out | R1400m      | R1400m      | R1400m      | R1400m      |
|                 |         | R1500m      | R1500m      | C2100m      | C2100m      |
| 25              | ILS     | 732'(203')  | 741'(212')  | 751'(222')  | 761'(232')  |
|                 |         | R750m       | R800m       | R800m       | R800m       |
|                 | ALS out | R1200m      | R1200m      | R1200m      | R1200m      |
|                 | VOR     | 1070'(541') | 1070'(541') | 1070'(541') | 1070'(541') |
|                 | ALS out | C2300m      | C2300m      | C2500m      | C2500m      |
|                 |         | C2700m      | C2700m      | C2900m      | C2900m      |

❶ Continuous Descent Final Approach.

| CIRCLE-TO-LAND ❷        | 100 KT      | 135 KT      | 180 KT      | 205 KT      |
|-------------------------|-------------|-------------|-------------|-------------|
| After ILS & VOR Rwy 07❸ | 1020'(525') | 1200'(705') | 1420'(925') | 1420'(925') |
| After ILS & VOR Rwy 25  | 1070'(541') | 1200'(671') | 1420'(891') | 1420'(891') |
|                         | V1500m❹     | V1600m❹     | V2400m❹     | V3600m      |

❷ Not authorized North of airport.

❸ Circling height based on rwy 07 thresh elev of 495'.

❹ or higher minimums of preceding straight-in approach.

### TAKE-OFF RWY 07, 25 ❺

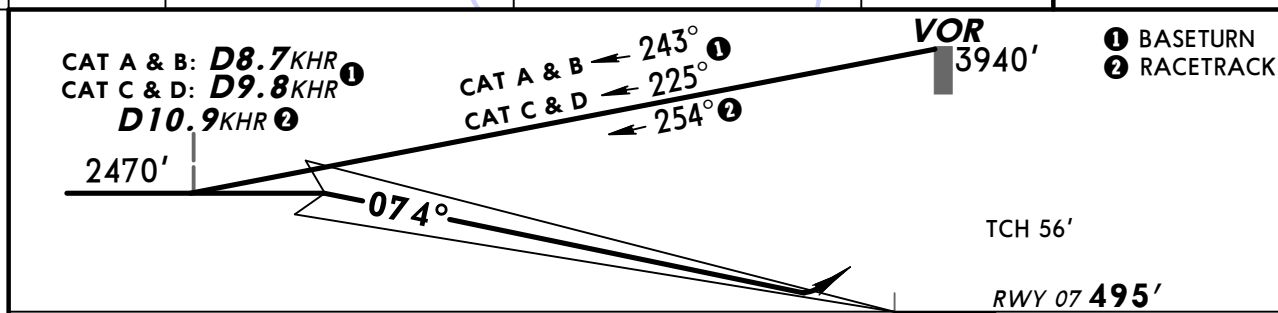
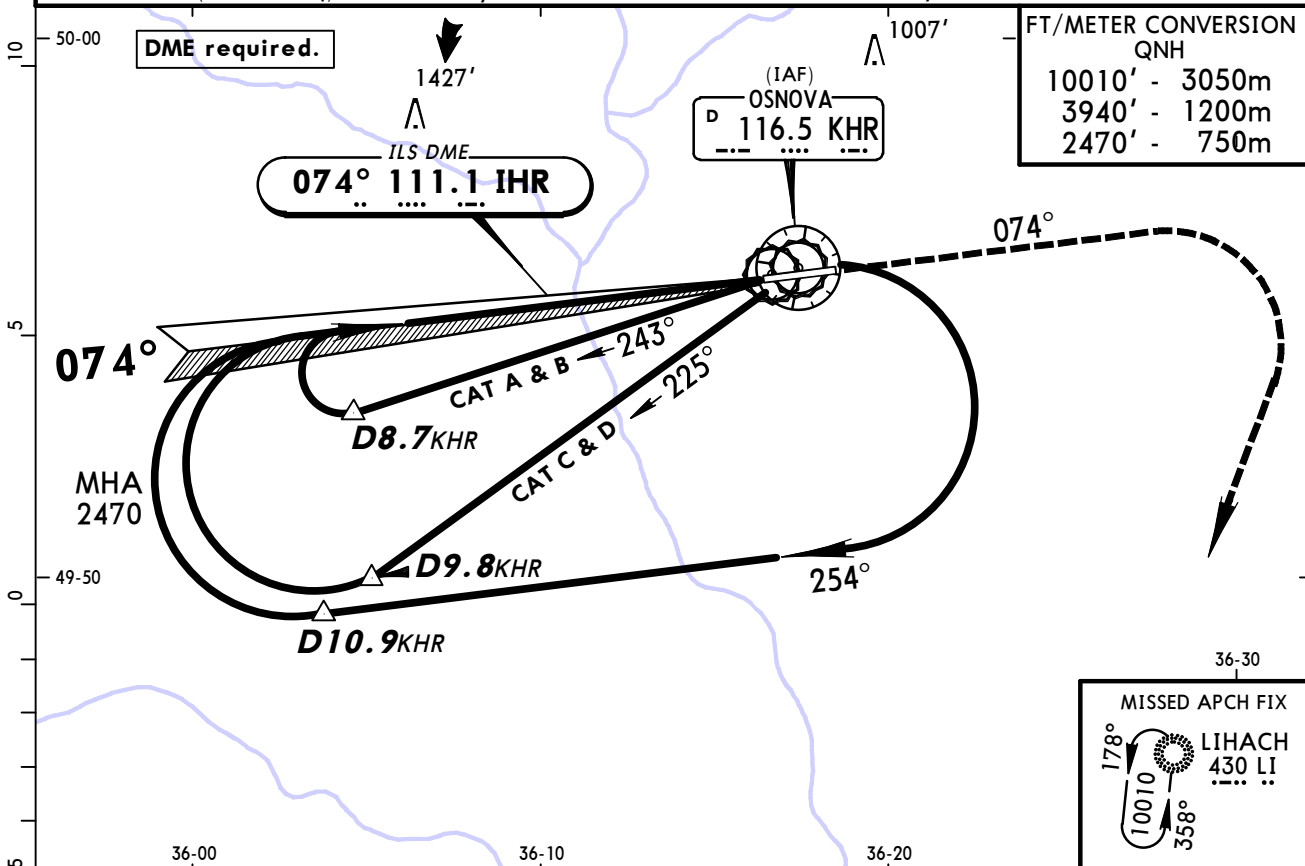
|   | Approved Operators<br>HIRL, CL<br>& mult. RVR req | LVP must be in Force      |         |                          | RCLM (DAY only)<br>or RL | NIL<br>(DAY only) |
|---|---------------------------------------------------|---------------------------|---------|--------------------------|--------------------------|-------------------|
|   |                                                   | RL, CL<br>& mult. RVR req | RL & CL | RCLM (DAY only)<br>or RL |                          |                   |
| A |                                                   |                           |         |                          |                          |                   |
| B | 125m                                              | 150m                      | 200m    | 250m                     | 400m                     | 500m              |
| C |                                                   |                           |         |                          |                          |                   |
| D | 150m                                              | 200m                      | 250m    | 300m                     |                          |                   |

❺ Operators applying U.S. Ops Specs: CL required below 300m;  
approved HUD required below 150m.

™

BRIEFING STRIP

|                                                                                                                                                                                                                                                                                           |                           |                           |                                      |                     |                           |                   |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|--------------------------------------|---------------------|---------------------------|-------------------|-----------------------------------------|
| ATIS                                                                                                                                                                                                                                                                                      |                           | KHARKIV Approach (R)      |                                      | KHARKIV Tower       |                           | Ground            |                                         |
| 126.75 ( Russian 127.6)                                                                                                                                                                                                                                                                   |                           | 118.8 123.7 133.9         |                                      | 118.1               |                           | 133.25            |                                         |
| LOC<br>IHR<br>111.1                                                                                                                                                                                                                                                                       | Final<br>Apch Crs<br>074° | GS<br>No alt<br>published | ILS<br>DA(H)<br>Refer to<br>Minimums |                     | Apt Elev 529'<br>RWY 495' |                   | <div>2700'</div> <div>MSA KHR VOR</div> |
| <div>MISSED APCH: Climb on 074° to 2470', then turn RIGHT to NDB climbing to 10010', then as directed.</div> <div>MISSED APCH RADIO COMM FAILURE: Climb on 074° to 2470', then turn RIGHT to NDB climbing to 10010', hold over 5 min, then proceed to VOR, then according to chart.</div> |                           |                           |                                      |                     |                           |                   |                                         |
| Alt Set: hPa (MM on req)                                                                                                                                                                                                                                                                  |                           | Rwy Elev: 18 hPa          |                                      | Trans level: By ATC |                           | Trans alt: 10010' |                                         |

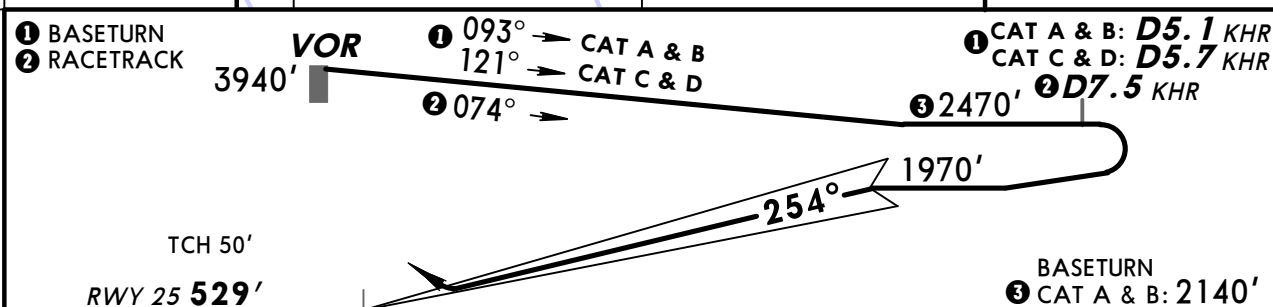
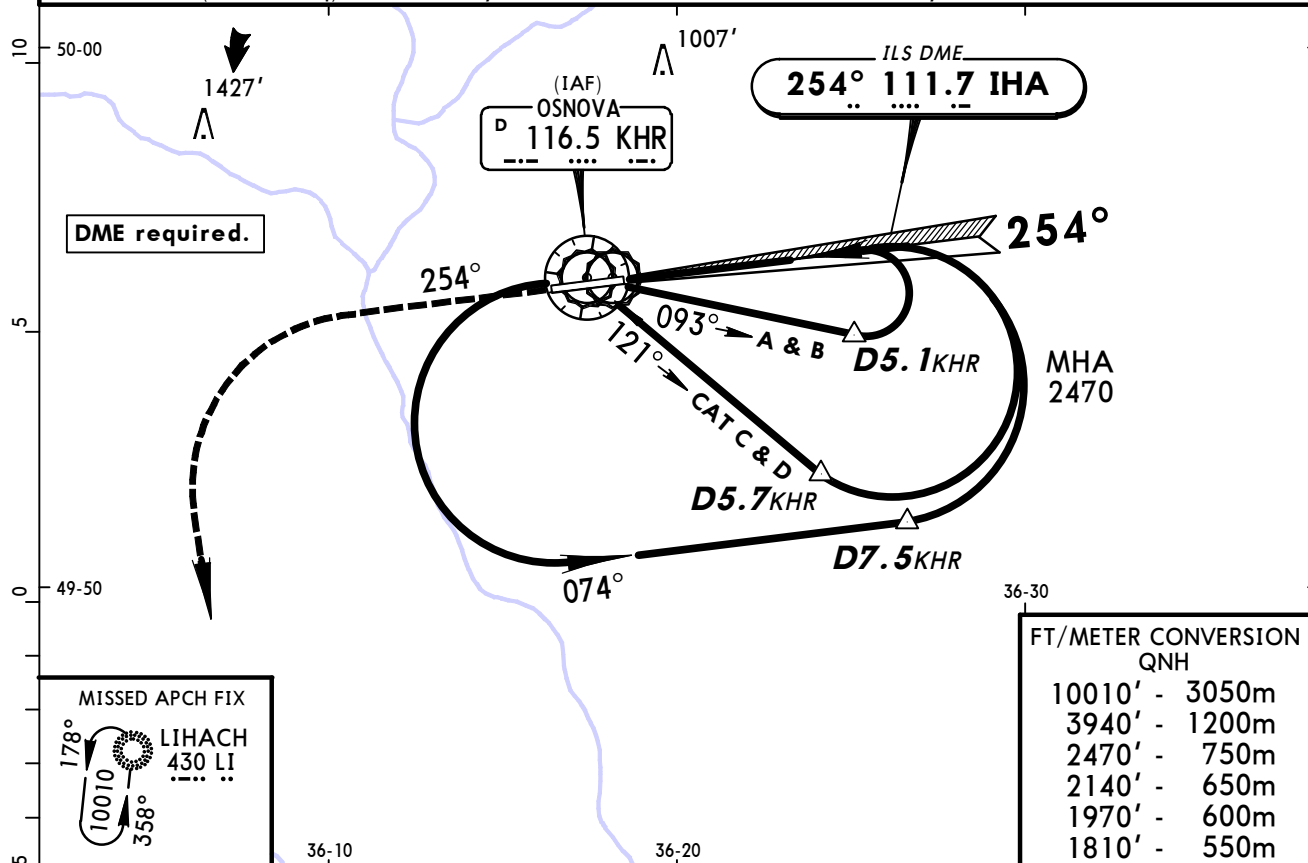


|               |       |     |     |     |     |     |                                                                                                                 |                                                                     |
|---------------|-------|-----|-----|-----|-----|-----|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Gnd speed-Kts | 70    | 90  | 100 | 120 | 140 | 160 | <div><div>HIALS-II</div><div>PAPI</div><div><div></div><div></div><div></div><div></div><div></div></div></div> |                                                                     |
| GS            | 3.00° | 372 | 478 | 531 | 637 | 743 | 849                                                                                                             | <div><div>2470'</div><div>↑</div><div>on</div><div>074°</div></div> |
|               |       |     |     |     |     |     |                                                                                                                 |                                                                     |

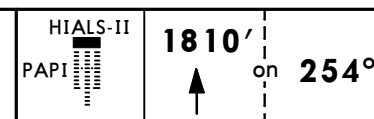
| JAR-OPS                                                                                                                                                                                                           |  | STRAIGHT-IN LANDING RWY 07                                                                     |  | CIRCLE-TO-LAND                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|--|
| <div style="display: flex; justify-content: space-between;"> <div> <b>DA(H)</b><br/> <b>A: 712' (217')</b><br/> <b>B: 722' (227')</b> </div> <div> <b>C: 731' (236')</b><br/> <b>D: 741' (246')</b> </div> </div> |  | <b>LOC (GS out)</b>                                                                            |  | <b>Not authorized North of airport</b>                                                                                             |  |
| <div style="display: flex; justify-content: space-between;"> <div><b>FULL</b></div> <div><b>ALS out</b></div> </div>                                                                                              |  | <div style="display: flex; justify-content: space-between;"> <div><b>NOT AUTH</b></div> </div> |  | <div style="display: flex; justify-content: space-between;"> <div> <b>Max Kts</b><br/> <b>MDA(H)</b><br/> <b>VIS</b> </div> </div> |  |
| A                                                                                                                                                                                                                 |  | RVR 600m                                                                                       |  | 100                                                                                                                                |  |
| B                                                                                                                                                                                                                 |  | RVR 1000m                                                                                      |  | 135                                                                                                                                |  |
| C                                                                                                                                                                                                                 |  |                                                                                                |  | 180                                                                                                                                |  |
| D                                                                                                                                                                                                                 |  |                                                                                                |  | 205                                                                                                                                |  |

BRIEFING STRIP™

|                                                                                                                                                                                                                                                                                         |                           |                           |                                      |                           |  |                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|--------------------------------------|---------------------------|--|-----------------------------------------|--|
| ATIS                                                                                                                                                                                                                                                                                    |                           | KHARKIV Approach (R)      |                                      | KHARKIV Tower             |  | Ground                                  |  |
| 126.75 ( Russian 127.6)                                                                                                                                                                                                                                                                 |                           | 118.8 123.7 133.9         |                                      | 118.1                     |  | 133.25                                  |  |
| LOC<br>IHA<br>111.7                                                                                                                                                                                                                                                                     | Final<br>Apch Crs<br>254° | GS<br>No alt<br>published | ILS<br>DA(H)<br>Refer to<br>Minimums | Apt Elev 529'<br>RWY 529' |  | <div>2700'</div> <div>MSA KHR VOR</div> |  |
| <div>MISSED APCH: Climb on 254° to 1810', then turn LEFT to NDB climbing to 10010', then as directed.</div> <div>MISSED APCH RADIO COMM FAILURE: Climb on 254° to 1810', then turn LEFT to NDB climbing to 10010', hold over 5 min, then proceed to VOR, then according to chart.</div> |                           |                           |                                      |                           |  |                                         |  |
| Alt Set: hPa (MM on req)                                                                                                                                                                                                                                                                |                           | Rwy Elev: 19 hPa          |                                      | Trans level: By ATC       |  |                                         |  |

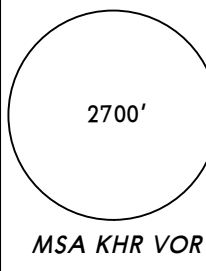


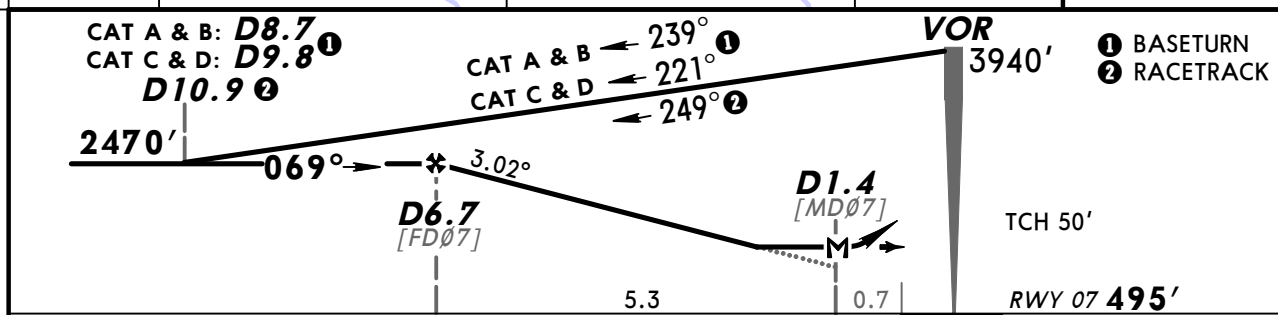
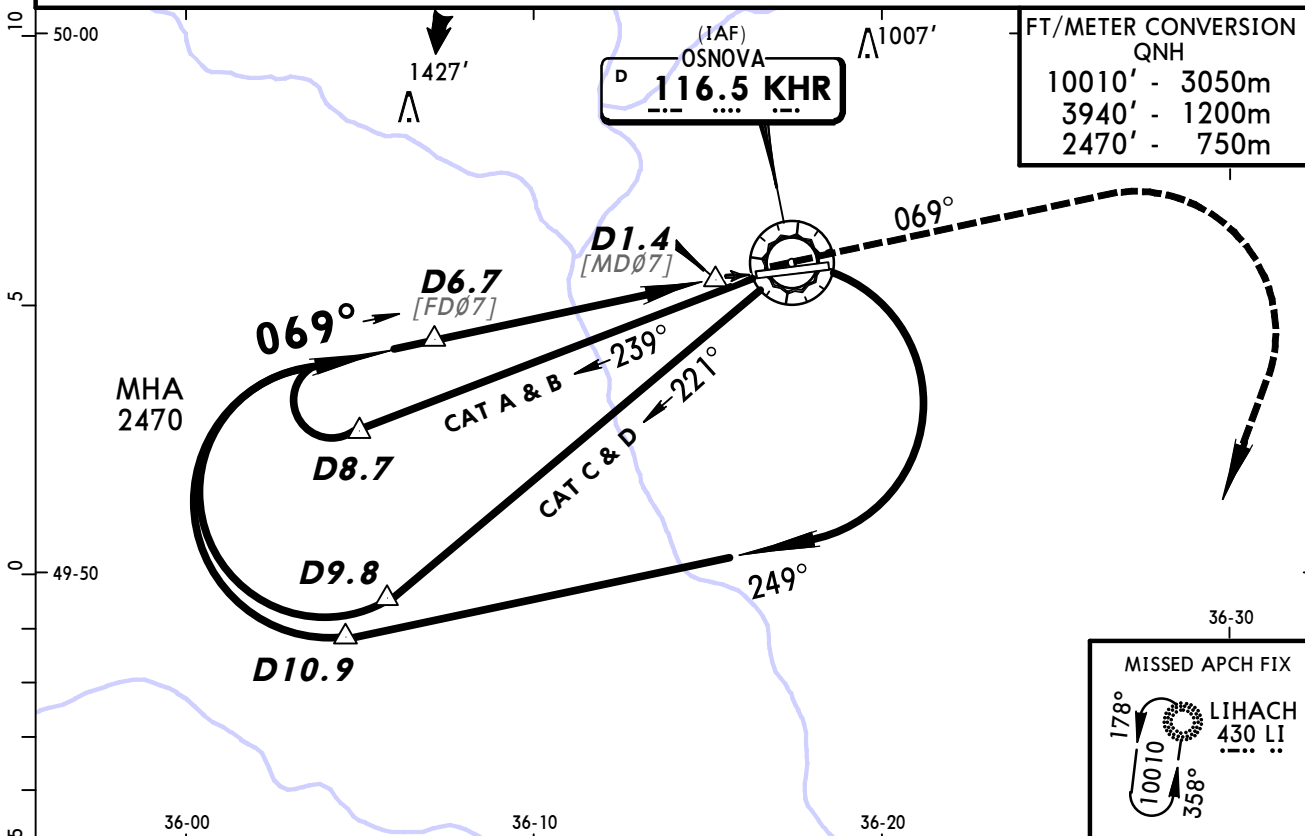
| <i>Gnd speed-Kts</i> | 70  | 90  | 100 | 120 | 140 | 160 |
|----------------------|-----|-----|-----|-----|-----|-----|
| GS 3.00°             | 372 | 478 | 531 | 637 | 743 | 849 |
|                      |     |     |     |     |     |     |
|                      |     |     |     |     |     |     |



| JAR-OPS        |  | STRAIGHT-IN LANDING RWY 25 |  | CIRCLE-TO-LAND                  |  |
|----------------|--|----------------------------|--|---------------------------------|--|
| ILS            |  | LOC (GS out)               |  | Not authorized North of airport |  |
| DA(H)          |  | FULL                       |  | MDA(H)                          |  |
| A: 732' (203') |  | C: 751' (222')             |  | 1070' (541')                    |  |
| B: 741' (212') |  | D: 761' (232')             |  | 1200' (671')                    |  |
| RVR 700m       |  | RVR 1000m                  |  | 1420' (891')                    |  |
| A              |  | NOT AUTH                   |  | 1420' (891')                    |  |
| B              |  | NOT AUTH                   |  | 3600m                           |  |
| C              |  | NOT AUTH                   |  |                                 |  |
| D              |  | NOT AUTH                   |  |                                 |  |

BRIEFING STRIP™

|                                                                                                                                                                                                                                                                        |                           |                                      |                       |                     |                           |                   |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------|-----------------------|---------------------|---------------------------|-------------------|-------------------------------------------------------------------------------------|
| ATIS                                                                                                                                                                                                                                                                   |                           | KHARKIV Approach (R)                 |                       | KHARKIV Tower       |                           | Ground            |                                                                                     |
| 126.75 ( Russian 127.6)                                                                                                                                                                                                                                                |                           | 118.8                                | 123.7                 | 133.9               | 118.1                     |                   | 133.25                                                                              |
| VOR<br>KHR<br>116.5                                                                                                                                                                                                                                                    | Final<br>Apch Crs<br>069° | Minimum Alt<br>D6.7<br>2470' (1975') | MDA(H)<br>940' (445') |                     | Apt Elev 529'<br>RWY 495' |                   |  |
| MISSED APCH: Climb on 069° to 2470', then turn RIGHT to NDB climbing to 10010', then as directed.<br>MISSED APCH RADIO COMM FAILURE: Climb on 069° to 2470', then turn RIGHT to NDB climbing to 10010', hold over 5 min, then proceed to VOR, then according to chart. |                           |                                      |                       |                     |                           |                   |                                                                                     |
| Alt Set: hPa (MM on req)<br>DME required.                                                                                                                                                                                                                              |                           | Rwy Elev: 18 hPa                     |                       | Trans level: By ATC |                           | Trans alt: 10010' |                                                                                     |



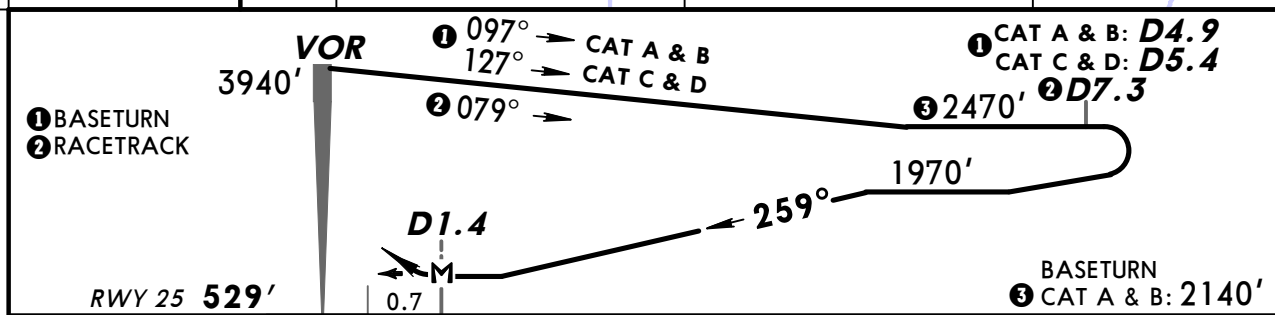
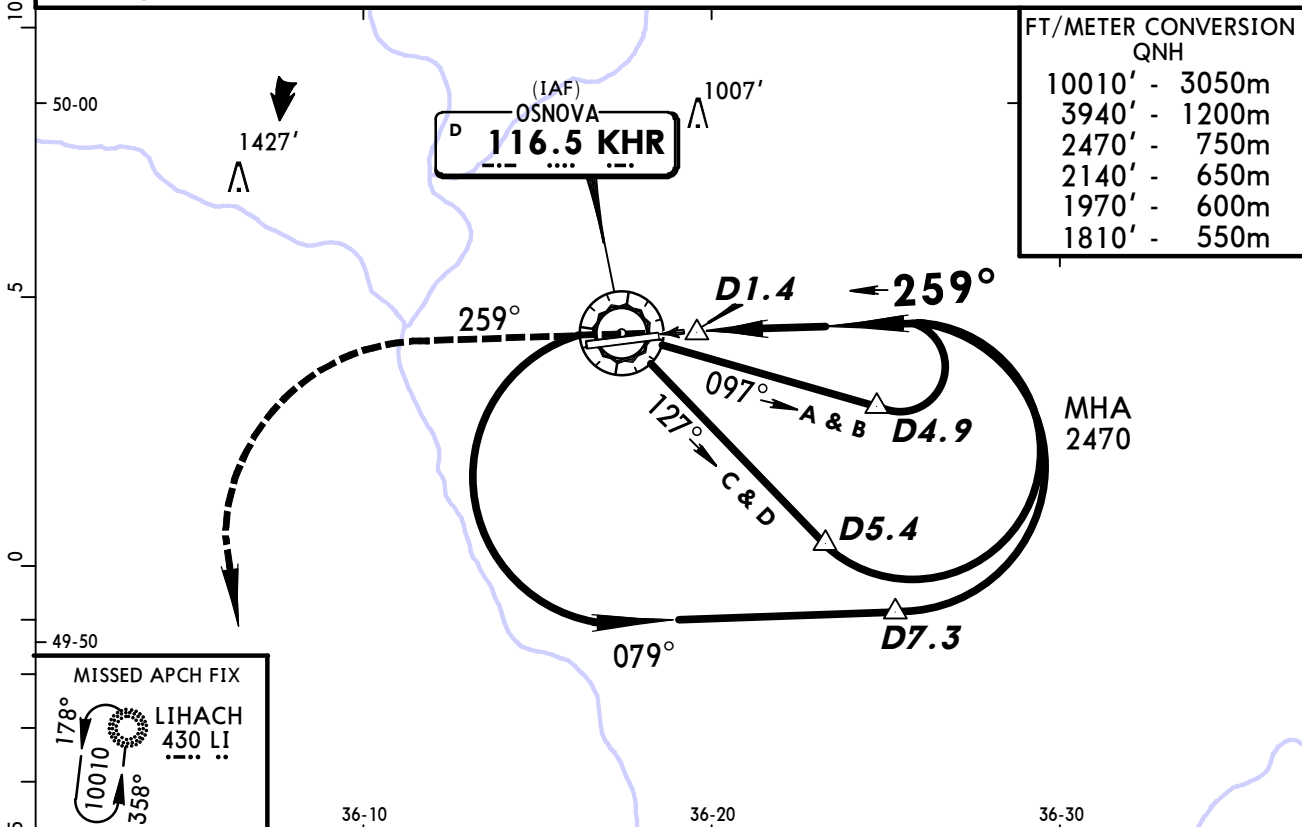
|                     |     |     |     |     |     |     |                                                                                                           |                                |
|---------------------|-----|-----|-----|-----|-----|-----|-----------------------------------------------------------------------------------------------------------|--------------------------------|
| Gnd speed-Kts       | 70  | 90  | 100 | 120 | 140 | 160 | HIALS-II<br>PAPI<br> | <b>2470'</b><br>on <b>069°</b> |
| Descent Angle 3.02° | 374 | 481 | 534 | 641 | 748 | 855 |                                                                                                           |                                |
| MAP at D1.4         |     |     |     |     |     |     |                                                                                                           |                                |

| JAR-OPS STRAIGHT-IN LANDING RWY 07 |           |           |  | CIRCLE-TO-LAND 1                |              |       |  |
|------------------------------------|-----------|-----------|--|---------------------------------|--------------|-------|--|
| MDA(H) <b>940'</b> (445')          |           |           |  | Not authorized North of airport |              |       |  |
|                                    |           | ALS out   |  | Max Kts                         | MDA(H)       | VIS   |  |
| A                                  | RVR 900m  | RVR 1500m |  | 100                             | 1020' (525') | 1500m |  |
| B                                  | RVR 1000m |           |  | 135                             | 1200' (705') | 1600m |  |
| C                                  | RVR 1000m | RVR 1800m |  | 180                             | 1420' (925') | 2400m |  |
| D                                  | RVR 1400m | RVR 2000m |  | 205                             | 1420' (925') | 3600m |  |

1 Circling height based on rwy 07 thresh elev of 495'.

BRIEFING STRIP

|                                                                                                                                                                 |                           |                       |       |                        |                           |                   |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|-------|------------------------|---------------------------|-------------------|-----------------------------------------|
| ATIS                                                                                                                                                            |                           | KHARKIV Approach (R)  |       | KHARKIV Tower          |                           | Ground            |                                         |
| 126.75 ( Russian 127.6)                                                                                                                                         |                           | 118.8                 | 123.7 | 133.9                  | 118.1                     |                   | 133.25                                  |
| VOR<br>KHR<br>116.5                                                                                                                                             | Final<br>Apch Crs<br>259° | Minimum Alt<br>No FAF |       | MDA(H)<br>1070' (541') | Apt Elev 529'<br>RWY 529' |                   | <div>2700'</div> <div>MSA KHR VOR</div> |
| MISSED APCH:Climb on 259° to 1810', then turn LEFT to NDB climbing to 10010', then as directed.                                                                 |                           |                       |       |                        |                           |                   |                                         |
| MISSED APCH RADIO COMM FAILURE:Climb on 259° to 1810', then turn LEFT to NDB climbing to 10010', hold over 5 min, then proceed to VOR, then according to chart. |                           |                       |       |                        |                           |                   |                                         |
| Alt Set: hPa (MM on req)<br>DME required.                                                                                                                       |                           | Rwy Elev: 19 hPa      |       | Trans level: By ATC    |                           | Trans alt: 10010' |                                         |



|                     |     |     |     |     |     |     |
|---------------------|-----|-----|-----|-----|-----|-----|
| Gnd speed-Kts       | 70  | 90  | 100 | 120 | 140 | 160 |
| Descent Angle 3.00° | 372 | 478 | 531 | 637 | 743 | 849 |
| MAP at D1.4         |     |     |     |     |     |     |

| JAR-OPS                    |           |           |  | CIRCLE-TO-LAND                  |              |       |  |
|----------------------------|-----------|-----------|--|---------------------------------|--------------|-------|--|
| STRAIGHT-IN LANDING RWY 25 |           |           |  | Not authorized North of airport |              |       |  |
| MDA(H) 1070' (541')        |           |           |  |                                 |              |       |  |
| ALS out                    |           |           |  | Max Kts                         | MDA(H)       | VIS   |  |
| A                          | RVR 1400m | RVR 1500m |  | 100                             | 1070' (541') | 1500m |  |
| B                          | RVR 1500m |           |  | 135                             | 1200' (671') | 1600m |  |
| C                          | RVR 1600m | RVR 2000m |  | 180                             | 1420' (891') | 2400m |  |
| D                          | RVR 1800m |           |  | 205                             | 1420' (891') | 3600m |  |

**Chart changes since cycle 07-2013**

ADD = added chart, REV = revised chart, DEL = deleted chart.

| ACT                      | PROCEDURE IDENT | INDEX | REV DATE | EFF DATE |
|--------------------------|-----------------|-------|----------|----------|
| KHARKIV, (OSNOVA - UKHH) |                 |       |          |          |

## **TERMINAL CHART CHANGE NOTICES**

### **No Chart Change Notices for Airport UKHH**