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Airport Information For EDDK

Terminal Charts For EDDK

Revision Letter For Cycle 13-2014

Change Notices

Notebook

General Information

Location: Cologne-Bonn Deu
IATA Code: CGN
Lat/Long: N50° 52.0' E007° 08.6'
Elevation: 302 ft

Airport Use: Public
Magnetic Variation: 1.3°E

Fuel Types: 100 Octane (LL), Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: Yes

Sunrise: 0318 Z
Sunset: 1949 Z,

Runway Information

Runway: 06
Length x Width: 8067 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 231 ft
Lighting: Edge, ALS, Centerline

Runway: 14L
Length x Width: 12516 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 230 ft
Lighting: Edge, ALS, Centerline, REIL, TDZ

Runway: 14R
Length x Width: 6112 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 221 ft
Lighting: Edge, ALS, Centerline

Runway: 24
Length x Width: 8067 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 272 ft
Lighting: Edge, ALS, Centerline

Runway: 32L
Length x Width: 6112 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 259 ft
Lighting: Edge, ALS, Centerline

Runway: 32R
Length x Width: 12516 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 302 ft
Lighting: Edge, ALS, Centerline, REIL, TDZ

Communication Information

ATIS 132.125
ATIS 112.15
Cologne-Bonn Ground Tower 121.725
Cologne-Bonn Delivery Tower 121.85
Cologne-Bonn Tower 124.975
Cologne-Bonn Tower 25.465 Military
Cologne-Bonn Tower 25.302 Military
Cologne-Bonn Military Ground Control 136.25 Military
Cologne-Bonn Military Ground Control 25.465 Military
Cologne-Bonn Apron Ramp/Taxi Control 121.95
Cologne-Bonn Director (Approach Control Radar) 121.05
Cologne-Bonn Director (Approach Control Radar) 38.952 Military

1. GENERAL

1.1. ATIS

D-ATIS 112.15 132.12

1.2. NIGHT FLYING RESTRICTIONS

1. Jet ACFT not licensed in accordance with ICAO Annex 16 and jet ACFT licensed in accordance with ICAO Annex 16, Volume I, Chapter 2:
 - Take-offs and landings are not permitted on all RWYs between 2000LT(1950LT off blocks)-0800LT.
2. Jet ACFT licensed in accordance with ICAO Annex 16, Volume I, Chapter 3 which are not included in the Bonus List published by the Ministry of Transport:
 - Scheduled and delayed take-offs as well as scheduled landings are not permitted on all RWYs between 2200LT(2150LT off blocks)-0600LT.
 - Delayed landings are not permitted on RWYs 14R and 06 between 2200LT-0600LT.
3. Jet ACFT licensed in accordance with ICAO Annex 16, Volume I, Chapter 3 which are included in the Bonus List (in case of a change to the List, jet ACFT which are no longer included may continue to be used until 31 October 2015, insofar as they have already been employed by ACFT operating agencies at Cologne-Bonn APT):
 - Scheduled and delayed take-offs are not permitted on RWYs 14R, 32L and 24 between 2200LT(2150LT off blocks)-0600LT.
 - Landings are not permitted on RWYs 14R and 06 between 2200LT-0600LT.
4. Propeller-driven ACFT not licensed in accordance with ICAO Annex 16 and/or LSL:
 - Take-offs and landings are not permitted on all RWYs between 2200LT(2150LT off block)-0600LT.
5. Propeller-driven ACFT licensed in accordance with ICAO Annex 16, Volume I, Chapters 3, 5, 6 or 10 and/or according to LSL Chapters III, V, VI or X:
 - Scheduled and delayed take-offs are not permitted on RWYs 14R, 32L and 24 between 2200LT(2150LT off blocks)-0600LT.
 - Landings are not permitted on RWYs 14R and 06 between 2200LT-0600LT.

EXCEPTIONS:

Exempt from the restrictions mentioned in para 1 - 5 are: Landings of ACFT provably approaching Cologne-Bonn APT as alternate aerodrome for meteorological, technical or other safety reasons as well as take-offs and landings of ACFT rendering medical assistance or on missions in disasters.

Take-offs of all kinds of ACFT are permitted on RWYs 06, 14L and 32R between 2200-0600LT only from THR or from the positions A5 (RWY 14L) and/or A1 (RWY 32R). Air Navigation Services Unit Cologne-Bonn may grant exceptions in individual cases if the traffic situation demands so.

Deviating from the regulations the Bezirksregierung Dusseldorf (Luftaufsicht Cologne-Bonn) may grant additional exceptions in justified individual cases, especially if necessary to avoid considerable disturbances of air traffic or in cases of special public interest. If appropriate, applications shall be submitted to:

Luftaufsicht Cologne-Bonn
Flughafen T1 M503
51147 Koeln
Tel: (02203) 40-2291
(0163) 9750221
Telefax: (02203) 40-2290

Exceptional permission for night landings during the closing times will not generally be granted by ATC via radio telephony. Accordingly, a landing clearance issued by ATC for safety reasons will not necessarily include the decision of the 'Luftaufsicht' about the admissibility of a night landing. In case of a landing or premature landing (before 0600LT) not approved by the 'Luftaufsicht', the pilot shall appear in person at the 'Luftaufsicht' immediately after landing in order to defend admissibility of the night landing.

Clearances for take-offs during closing times issued by ATC do not comprise the necessary exceptional permission by the 'Luftaufsicht'.

1. GENERAL

1.3. REVERSE THRUST

Reverse thrust other than idle shall not be used for landings on RWYs 32R and 14L between 2200-0600LT except for safety reasons.

1.4. RUN-UP TESTS

Engine test-runs without the use of noise suppression facilities are generally not permitted.

1.5. TAXI PROCEDURES

1.5.1. GENERAL

TWY D between TWY A and TWY T MAX wingspan 213'/65m.

TWY B from TWY T up to TWY bridge of TWY B inclusively MAX wingspan 171'/52m.

TWY bridge of TWY B MAX 200 mt AUW.

TWY C between THR 32L and TWY A only for towing up to code C ACFT with wheel base less than 59'/18m.

For ACFT with a wingspan of more than 171'/52m, it is mandatory to use the yellow marked and green/ green lighted taxiing guide line on TWY M.

1.5.2. TAXIING ON THE APRONS

ACFT may taxi on the aprons without guidance by a Follow-me car only if permanent radio contact can be maintained with aerodrome control while taxiing. If a Follow-me car is employed, the pilot shall observe its signals. If the pilot requires the assistance of a Follow-me car when taxiing, he may request this from aerodrome control.

ACFT are permitted to taxi on the aprons only at the absolute minimum engine speed.

On the aprons, ACFT may only taxi on or along the yellow taxiing guide lines and on aprons C and D on or along the orange and blue taxiing guide lines, respectively.

Deviations and shortcuts are not allowed. In exceptional cases, taxiing off the guide lines will be permitted under the guidance of a Follow-me car or in agreement with aerodrome control.

1.5.3. USE OF A380

General:

After leaving the RWY, ACFT shall stop and wait for the Follow-me car. As a rule, ACFT will be guided by a Follow-me car in the areas between the taxi-holding positions and the parking positions.

Taxiing onto and exiting from RWY 14L/32R:

Landing 14L: TWY A

Landing 32R: TWY A4

Take-off 14L: TWY A5

Take-off 32R: TWY A (On request, ACFT can be guided by a Follow-me car to the take-off area.)

Taxi-Holding positions in front of RWY 14L/32R:

Only the CAT II/III taxi-holding positions (pattern B markings) may be used.

Taxi-Holding positions in front of RWY 06/24:

The separate taxi-holding positions marked for A380 shall be used.

Taxiing on TWY A:

Attention is drawn to the reduced TWY width between RWY 06/24 and position area F.

Other:

ACFT with wingspan of 118'/36m or more may no longer taxi on TWY E if A380 is taxiing on TWY A (between RWY 06/24 and TWY A7).

1.6. PARKING INFORMATION

Visual Docking Guidance System APIS available on stands D1 thru D12.

2. ARRIVAL

2.1. SPEED RESTRICTIONS

MAX 250 KT below FL100 or as by ATC.
Not applicable within airspace C.

2.2. NOISE ABATEMENT PROCEDURES

2.2.1. CONTINUOUS DESCENT APPROACH (CDA)

CDA noise abatement procedure in progress daily between 2200-0800LT, for MD-11 and B744 at all times.

Depending on the traffic situation, ATC will either use radar vectoring to final approach with distance-to-go (DTG) information or clear ACFT for RNAV "transition and profile".

During radar vectoring pilots shall expect descent below FL70 approx 26 NM to touchdown. Unless otherwise instructed by ATC pilots are expected to reduce speed to MAX 220 KT prior to descent below FL70, aim for a low-noise CDA, maintain at least 190 KT to 12 NM final, extend gear 2000' AGL or later, perform final landing configuration approaching LOM and aim for a low-noise CDA without level flight below FL70.

Clearance for RNAV transition may include clearance to follow vertical profile. When cleared for "transition and profile", pilots shall respect the published levels and speeds and aim for a low-noise CDA below FL 70. They should extend the landing gear only upon reaching 2000' GND or later and perform final landing configuration approaching LOM.

For monitoring purposes, a descent will be considered to be continuous provided that no route segment has a height change of less than 50' over a track distance of 2 NM, as recorded in the Flight Track and Aircraft Noise Monitoring System (FANOMOS).

2.3. CAT II/III OPERATIONS

RWY 14L/32R approved for CAT II/III operations, special aircrew and ACFT certification required.

3. DEPARTURE

3.1. PUSH-BACK PROCEDURE

To receive instructions to push-back from a nose-in position, pilots are requested to establish contact with the driver of the ACFT tractor. The pilot may enquire only when the manoeuvre can be carried out immediately. The driver of the ACFT tractor will carry out the push-back procedure as soon as he has received the necessary clearance from ATC. In order to avoid delays, the engines shall be started during push-back. After push-back has been completed successfully, readiness to taxi shall be reported to aerodrome control.

3.2. NOISE ABATEMENT PROCEDURES

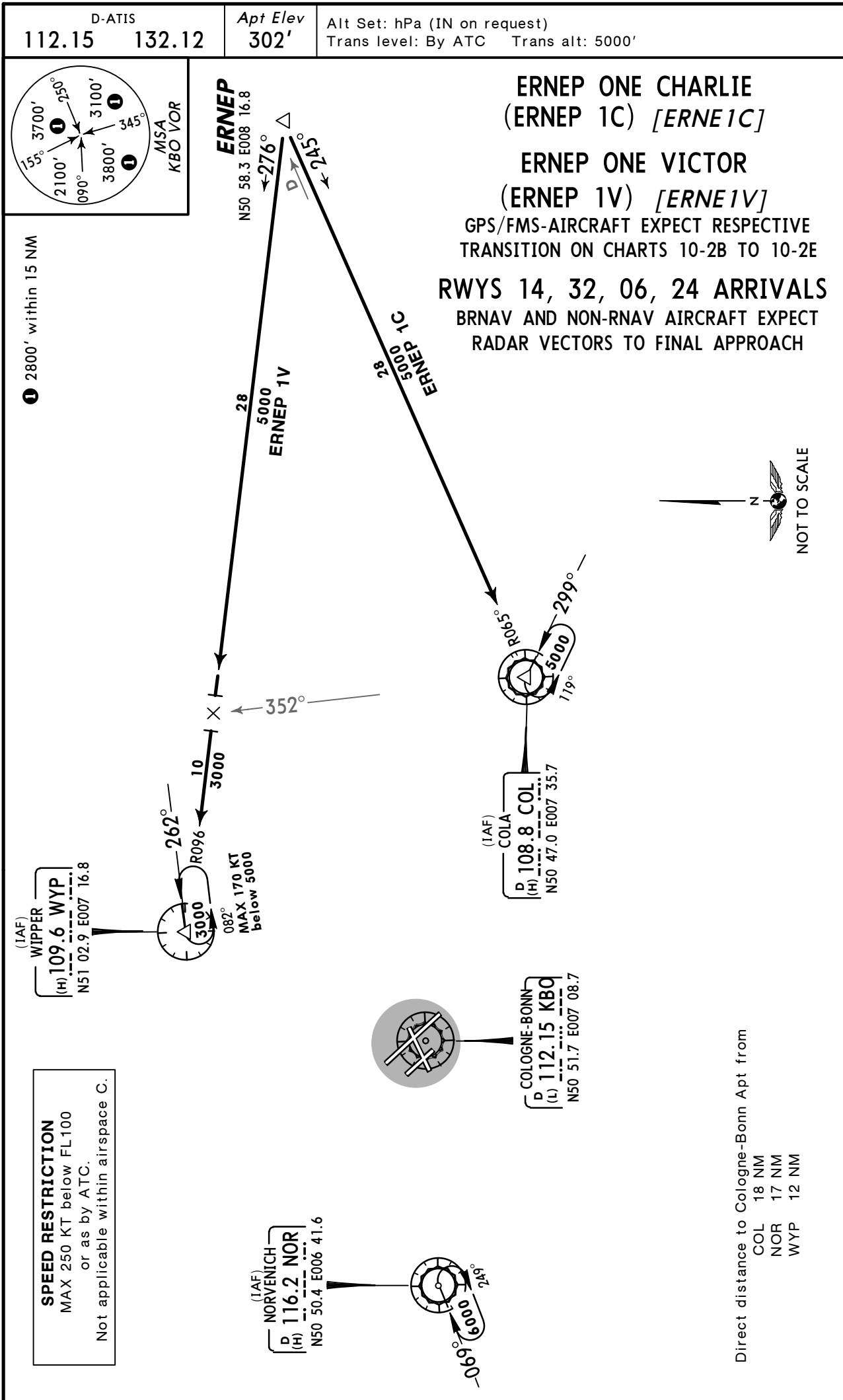
To improve adherence to the prescribed departure routes, the pilot-in-command shall use the autopilot at the earliest opportunity, unless otherwise instructed by ATC.

3.3. OTHER INFORMATION

3.3.1. DATALINK DEPARTURE CLEARANCE (DCL)

The following time parameters apply:

t_i	25 min prior to EOBT for unregulated flights. 30 min prior CTOT for ATFM regulated flights
t_f	11 min prior to EOBT for unregulated flights. 16 min prior to CTOT for ATFM regulated flights.
t_1	5 min



D-ATIS	Apt Elev	Alt Set: hPa (IN on request)
112.15 132.12	302'	Trans level: By ATC Trans alt: 5000'

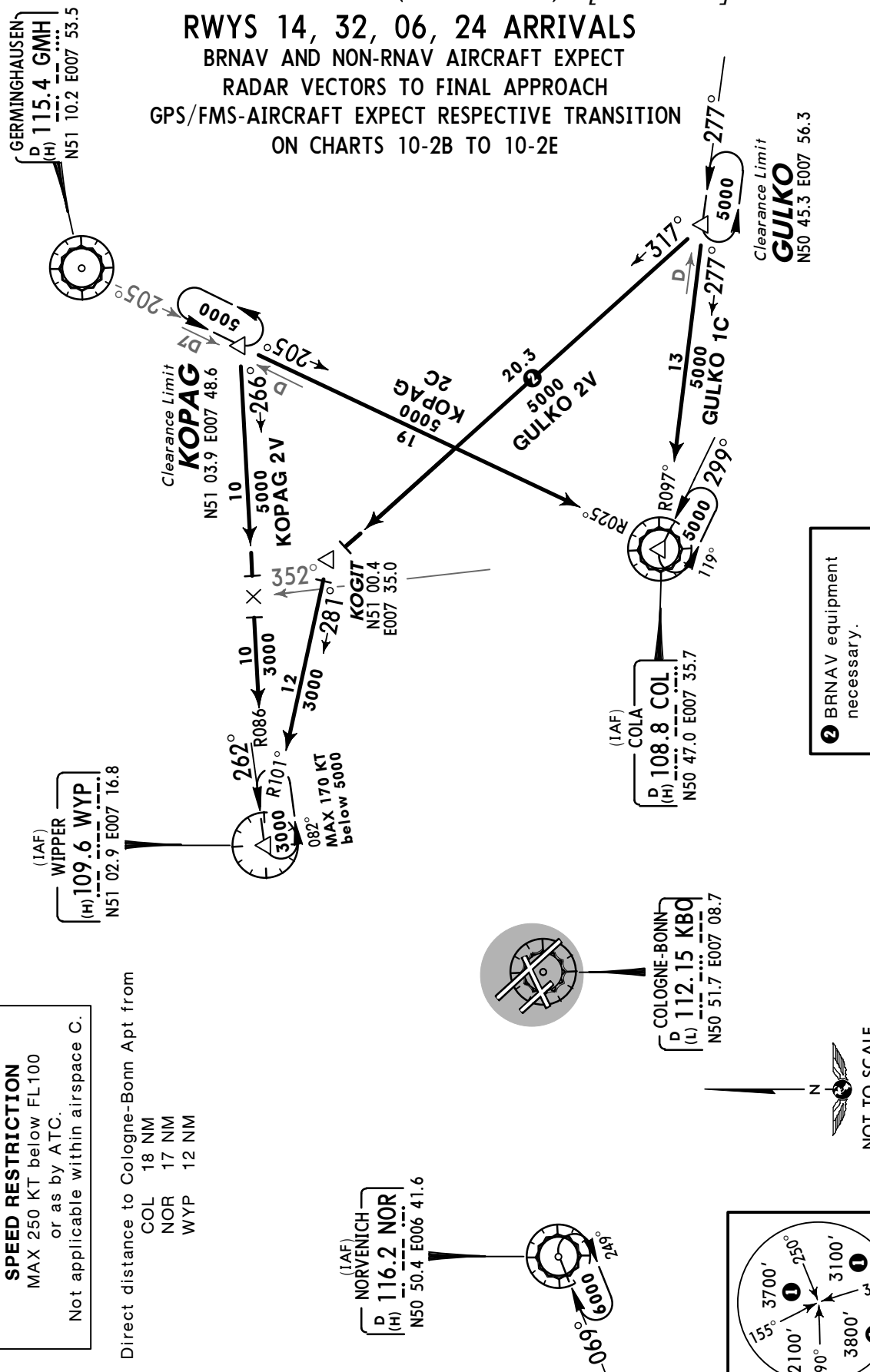
GULKO ONE CHARLIE (GULKO 1C) [GULK1C]
 GULKO TWO VICTOR (GULKO 2V) [GULK2V]
 KOPAG TWO CHARLIE (KOPAG 2C) [KOPA2C]
 KOPAG TWO VICTOR (KOPAG 2V) [KOPA2V]

RWYS 14, 32, 06, 24 ARRIVALS

BRNAV AND NON-RNAV AIRCRAFT EXPECT

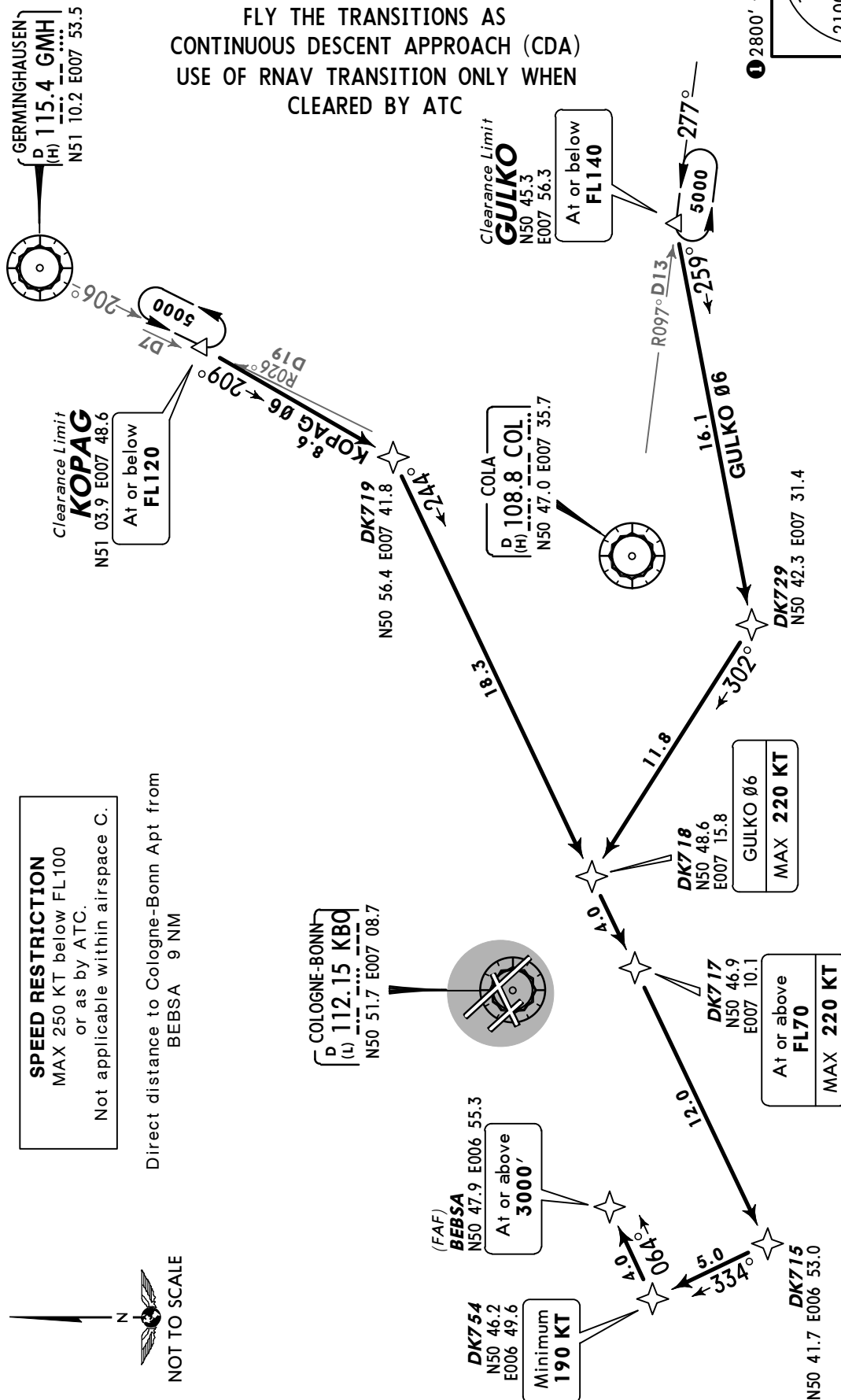
RADAR VECTORS TO FINAL APPROACH

GPS/FMS-AIRCRAFT EXPECT RESPECTIVE TRANSITION
 ON CHARTS 10-2B TO 10-2E



Alt Set: hPa (IN on request) Trans level: By ATC Trans alt: 5000'
When cleared for "transition and profile" aim for a low noise continuous descent approach (CDA) within the constraints as laid down in the procedure description.

FLY THE TRANSITIONS AS
CONTINUOUS DESCENT APPROACH (CDA)
USE OF RNAV TRANSITION ONLY WHEN
CLEARED BY ATC



TRANSITION	ROUTING
GULKO Ø6	GULKO (FL140-) - DK729 - DK718 (K220-) - DK717 (FL70+; K220-) - DK715 - DK754 (K190+) - BEBSA (3000'+).
KOPAG Ø6	KOPAG (FL120-) - DK719 - DK717 (FL70+; K220-) - DK715 - DK754 (K190+) - BEBSA (3000'+).

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D-ATIS
112.15
132.12

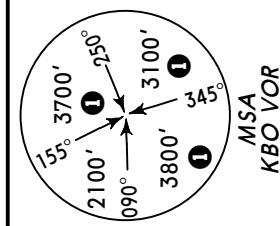
Apt Elev
302'

Alt Set: hPa (IN on request) Trans level: By ATC Trans alt: 5000'
When cleared for "transition and profile" aim for a low noise continuous descent approach (CDA) within the constraints as laid down in the procedure description.



GULKO 24 [GUL24], KOPAG 24 [KOP24] NOR 24A [NO24A], NOR 24B [NO24B] RWY 24 RNAV TRANSITIONS

GPS/FMS-EQUIPPED AIRCRAFT
FLY THE TRANSITIONS AS
CONTINUOUS DESCENT APPROACH (CDA)
USE OF RNAV TRANSITION ONLY
WHEN CLEARED BY ATC



Clearance Limit
KOPAG

N51 03.9 E007 48.6
At or below
FL120
MAX 220 KT

DK537
N50 59.5 E007 11.5
At or above
FL70
MAX 220 KT

DK536
N51 03.8 E007 25.8
At or above
FL70
MAX 220 KT

DK535
N51 00.0 E007 28.7
At or above
FL70
MAX 220 KT

DK534
N50 57.1 E007 25.6
At or above
FL70
MAX 220 KT

DK545
N50 56.9 E007 31.1
At or above
FL70
MAX 220 KT

DK546
N50 52.9 E007 34.0
At or above
FL70
MAX 220 KT

DK547
N50 48.7 E007 19.7
At or above
FL70
MAX 220 KT

DK548
N50 45.3 E007 56.3
At or below
FL110

DK549
N50 47.0 E007 35.7
At or below
FL110

DK550
N50 44.3 E007 44.3
At or above
FL70
MAX 220 KT

DK551
N50 41.6 E007 53.5
At or above
FL70
MAX 220 KT

DK552
N50 38.9 E007 62.6
At or above
FL70
MAX 220 KT

DK553
N50 36.2 E007 71.7
At or above
FL70
MAX 220 KT

DK554
N50 33.5 E007 80.8
At or above
FL70
MAX 220 KT

DK555
N50 30.8 E007 89.9
At or above
FL70
MAX 220 KT

DK556
N50 28.1 E007 99.0
At or above
FL70
MAX 220 KT

DK557
N50 25.4 E007 108.1
At or above
FL70
MAX 220 KT

DK558
N50 22.7 E007 117.2
At or above
FL70
MAX 220 KT

DK559
N50 20.0 E007 126.3
At or above
FL70
MAX 220 KT

DK560
N50 17.3 E007 135.4
At or above
FL70
MAX 220 KT

DK561
N50 14.6 E007 144.5
At or above
FL70
MAX 220 KT

DK562
N50 11.9 E007 153.6
At or above
FL70
MAX 220 KT

DK563
N50 9.2 E007 162.7
At or above
FL70
MAX 220 KT

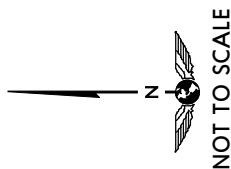
DK564
N50 6.5 E007 171.8
At or above
FL70
MAX 220 KT

DK565
N50 3.8 E007 180.9
At or above
FL70
MAX 220 KT

DK566
N50 1.1 E007 190.0
At or above
FL70
MAX 220 KT

DK567
N50 0.4 E007 199.1
At or above
FL70
MAX 220 KT

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



NOR 24A
21°

NOR 24B
24.2°

COLOGNE-BONN
D 112.15 KBO
N50 51.7 E007 08.7

NORVENICH
(IAF)
D 116.2 NOR
N50 50.4 E006 41.6
At or below
FL140

ROUTING

TRANSITION

TRANSITION	ROUTING
GULKO 24	GULKO (FL110-) - DK527 (FL70+; K220-) - DK515 - DK554 (K190+) - KUKIT (3000'+).
KOPAG 24	KOPAG (FL120-; K220-) - DK554 (K190+) - KUKIT (3000'+).
NOR 24A	NOR (FL140-) - DK537 (FL70+; K220-) - DK536 - DK535 - DK554 (K190+) - KUKIT (3000'+).
NOR 24B	NOR (FL140-) - DK547 (FL70+; K220-) - DK546 - DK545 - DK554 (K190+) - KUKIT (3000'+).

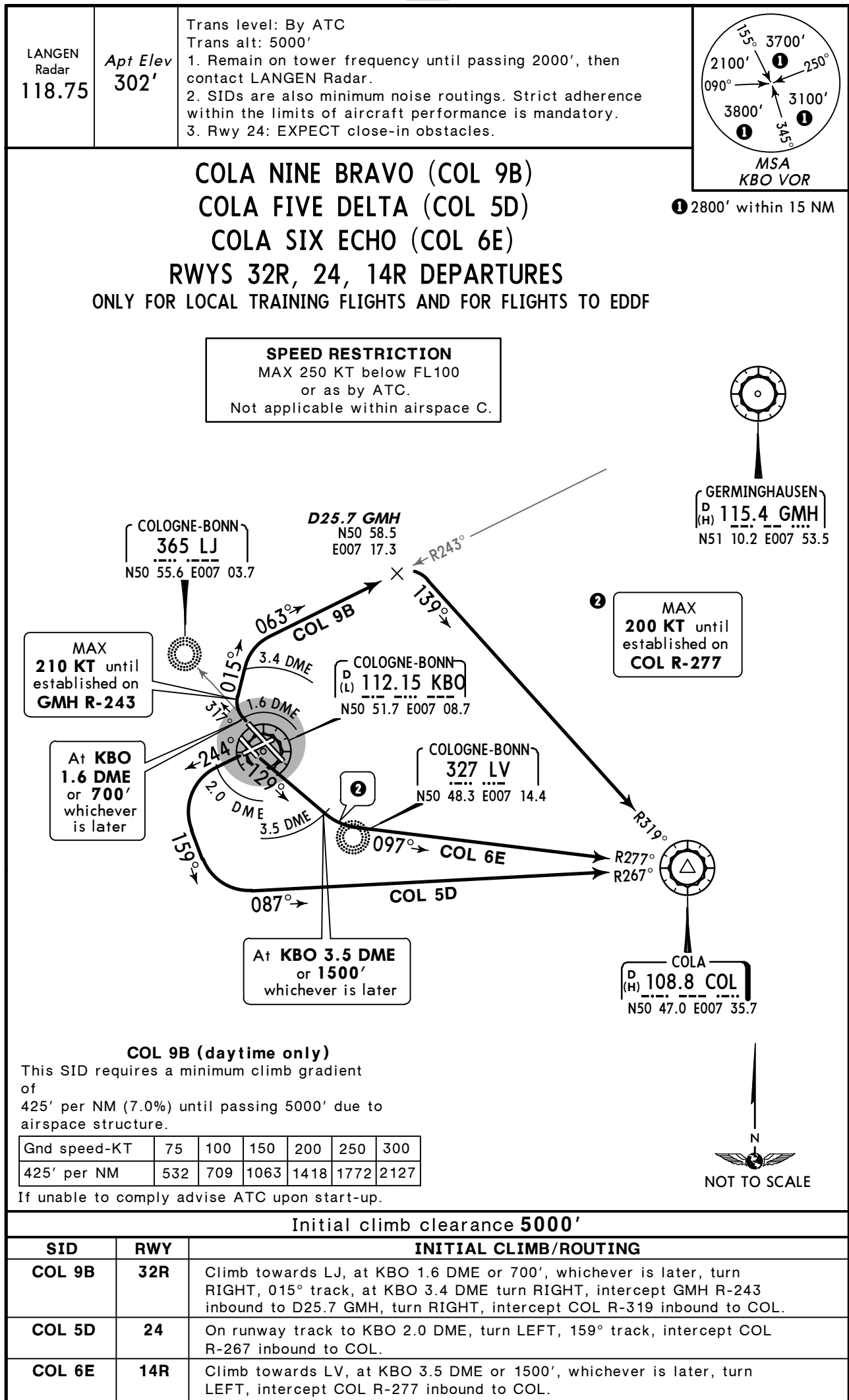
2800' within 15 NM

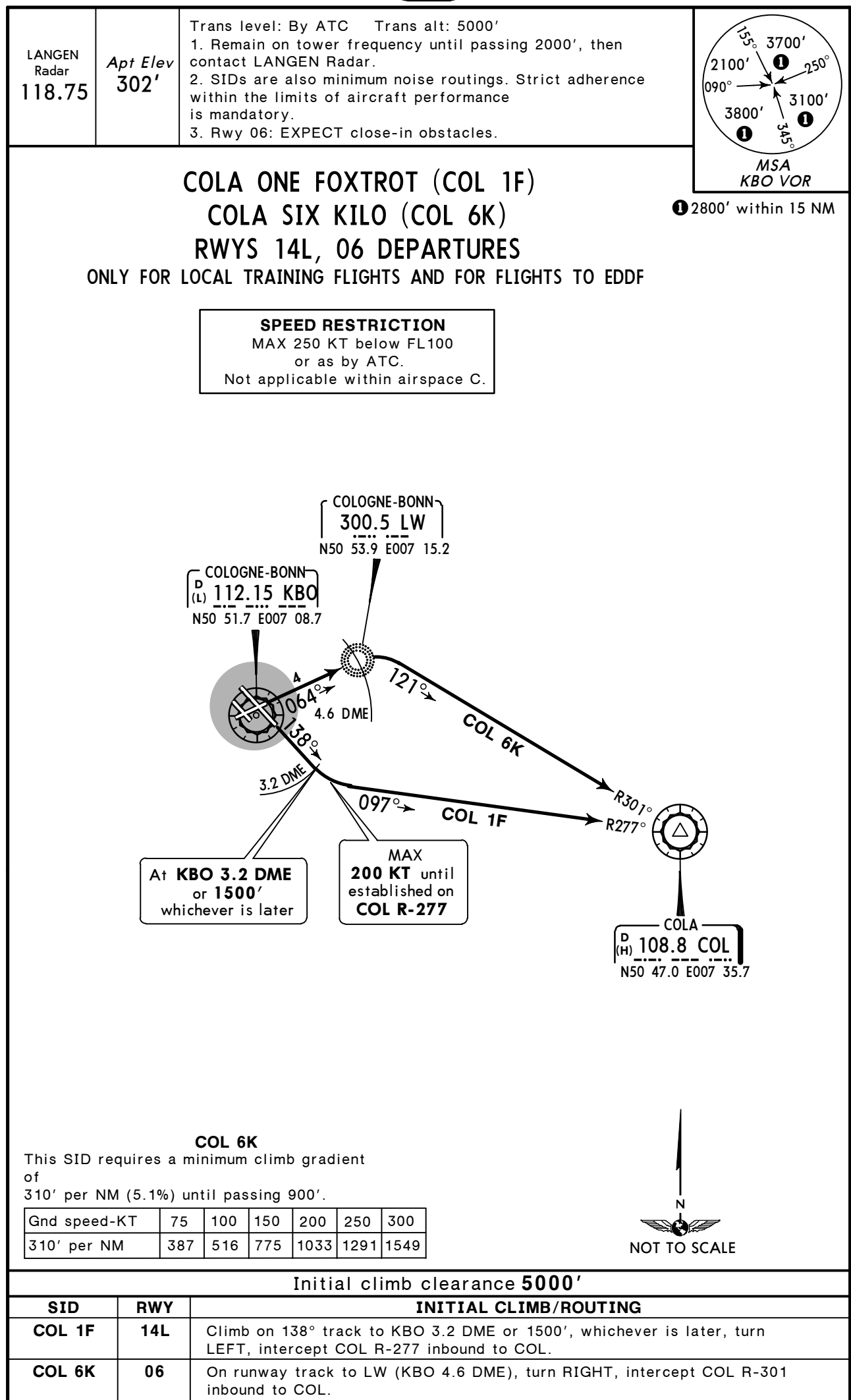
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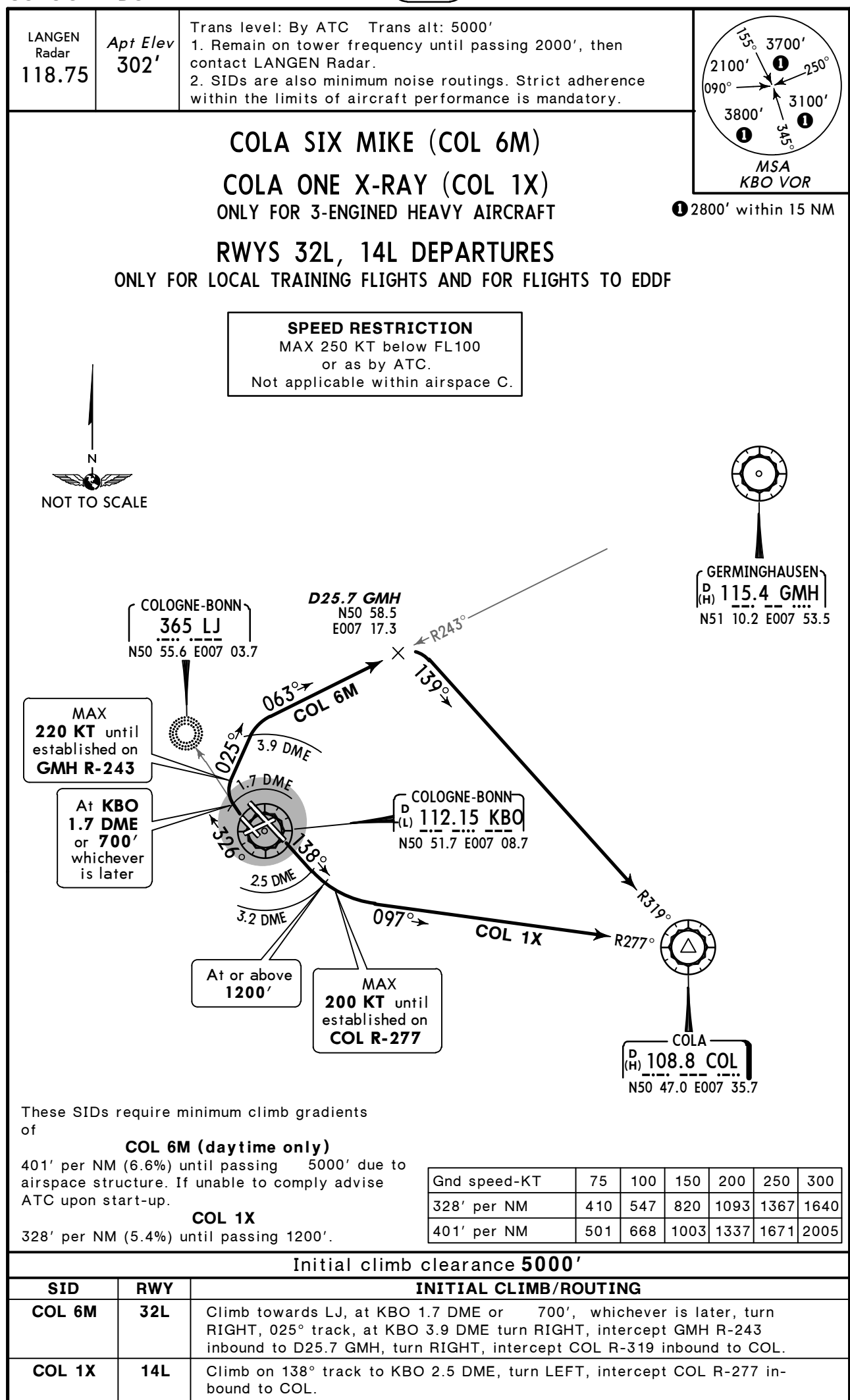
SID DESIGNATION	REFER TO CHART
COLA 9B, 5D, 6E	10-3B
COLA 1F, 6K	10-3C
COLA 6M, 1X	10-3D
KUMIK 6B, 4D, 3E	10-3E
KUMIK 5F, 5K	10-3F
KUMIK 4M, 1X	10-3G
NORVENICH 3B, 5C, 7D, 7E	10-3H
NORVENICH 8F, 8K, 7M, 7P	10-3J
NORVENICH 2V, 2W	10-3K
PODIP 5B, 4D, 4E	10-3L
PODIP 6F, 6K	10-3M
PODIP 4M, 1X	10-3N
SONEB 3B, 4C, 3E, 4W	10-3N1
SONEB 2D, 2M, 3V, 3X	10-3N2
SONEB 5F, 2K 6P, 3U	10-3N3
WIPPER 2B, 2D, 2E	10-3N4
WIPPER 3F, 2K, 1M	10-3P

FOR RNAV SID (OVERLAY) DESIGNATION REFER TO PAGE 10-3A

RNAV SID DESIGNATION	REFER TO CHART
COLA 9B, 5D, 6E	10-3Q
COLA 1F, 6K	10-3S
COLA 6M, 1X	10-3T
KUMIK 6B, 4D, 3E	10-3T1
KUMIK 5F, 5K	10-3T2
KUMIK 4M, 1X	10-3T3
NORVENICH 3B, 5C, 7D, 7E	10-3T4
NORVENICH 8F, 8K, 7M, 7P	10-3U
NORVENICH 2V, 2W	10-3V
PODIP 5B, 4D, 4E	10-3W
PODIP 6F, 6K	10-3X
PODIP 4M, 1X	10-3X1
SONEB 3B, 4C, 3E, 4W	10-3X2
SONEB 2D, 2M, 3V, 3X	10-3X3
SONEB 5F, 2K 6P, 3U	10-3X4
WIPPER 2B, 2D, 2E	10-3X5
WIPPER 3F, 2K, 1M	10-3X6







1. Remain on tower frequency until passing 2000', then contact LANGEN Radar. 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 24: EXPECT close-in obstacles.

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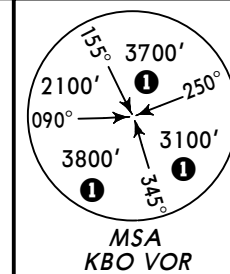
CHANGES: SID KUMIK 4M transferred; chart reindexed. © JEPPESEN, 2014. ALL RIGHTS RESERVED.

*LANGEN
Radar
135.35

Apt Elev
302'

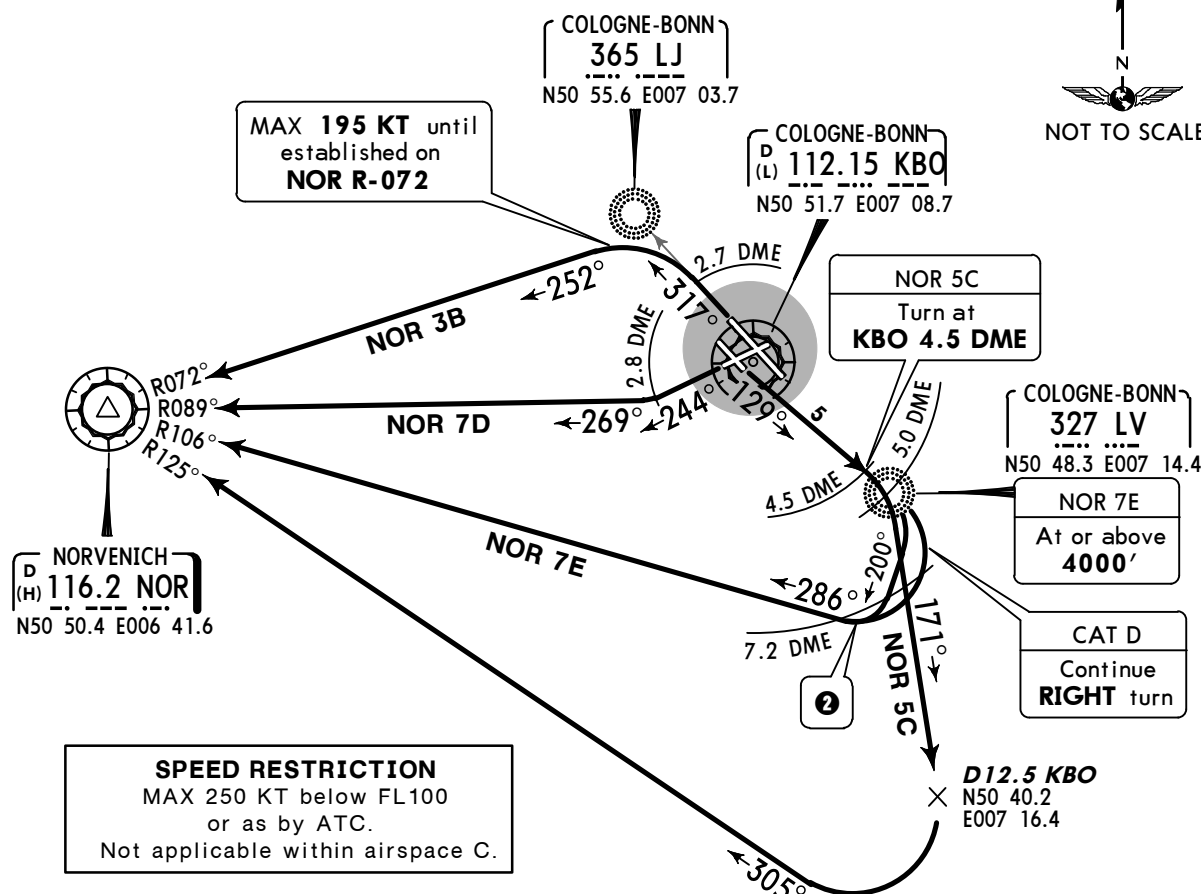
- Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
 3. RWY 24: EXPECT close-in obstacles.

NORVENICH THREE BRAVO (NOR 3B)
NORVENICH FIVE CHARLIE (NOR 5C)
NORVENICH SEVEN DELTA (NOR 7D)
NORVENICH SEVEN ECHO (NOR 7E)
RWYS 32R, 14R, 24 DEPARTURES



① 2800' within 15 NM

Flights intending to proceed above FL190 have to be able to cross FIR/UIR boundary (NOR 23.0 DME) at or above FL200. If unable to comply contact Delivery prior to start-up.



NOR 7E
This SID requires a minimum climb gradient of 735' per NM (12.1%) until 4000' due to airspace structure, if unable to comply file SID NOR 5C.

Gnd speed-KT	75	100	150	200	250	300
735' per NM	919	1225	1838	2451	3063	3676

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
NOR 3B	32R	Towards LJ, at KBO 2.7 DME turn LEFT, intercept NOR R-072 inbound to NOR.
NOR 5C	14R	Towards LV, at KBO 4.5 DME turn RIGHT, intercept 171° bearing from LV to D12.5 KBO, turn RIGHT, intercept NOR R-125 inbound to NOR.
NOR 7D	24	On runway track to KBO 2.8 DME, turn RIGHT, intercept NOR R-089 inbound to NOR.
NOR 7E	14R	To LV (KBO 5.0 DME), turn RIGHT, 200° track (CAT D continue RIGHT turn) to KBO 7.2 DME, turn RIGHT, intercept NOR R-106 inbound to NOR.

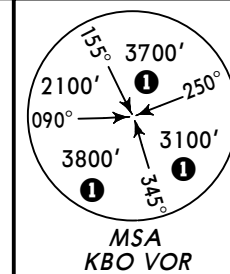
*LANGEN
Radar
135.35

Apt Elev
302'

Trans level: By ATC Trans alt: 5000'

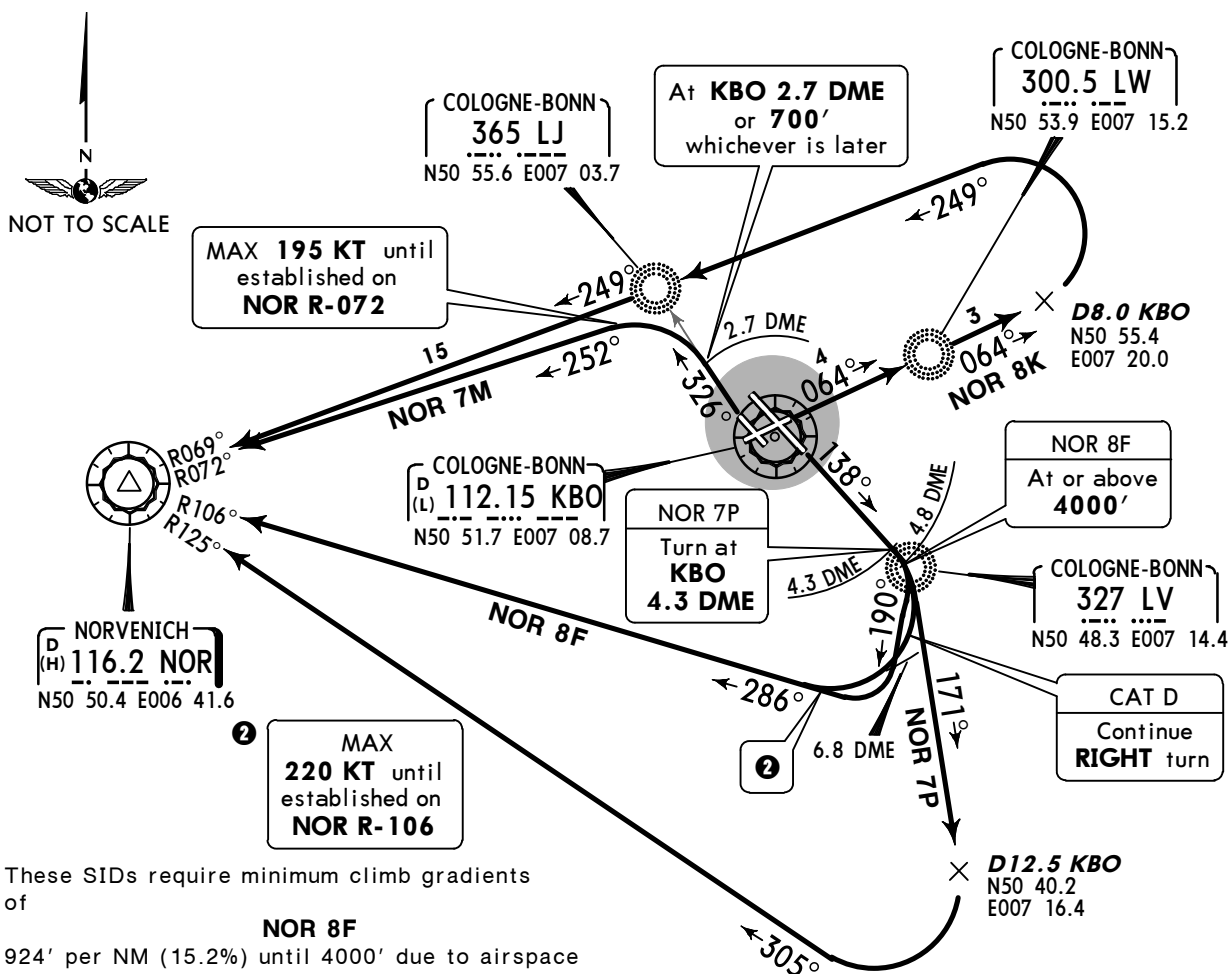
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.

NORVENICH EIGHT FOXTROT (NOR 8F)
NORVENICH EIGHT KILO (NOR 8K)
NORVENICH SEVEN MIKE (NOR 7M)
NORVENICH SEVEN PAPA (NOR 7P)
RWYS 14L, 06, 32L DEPARTURES



① 2800' within 15 NM

Flights intending to proceed above FL190 have to be able to cross FIR/UIR boundary (NOR 23.0 DME) at or above FL200. If unable to comply contact Delivery prior to start-up.



These SIDs require minimum climb gradients of

NOR 8F

924' per NM (15.2%) until 4000' due to airspace structure, if unable to comply file SID NOR 7P.

NOR 8K

310' per NM (5.1%) until passing 900'.

Gnd speed-KT	75	100	150	200	250	300
924' per NM	1154	1539	2309	3079	3848	4618
310' per NM	387	516	775	1033	1291	1549

SPEED RESTRICTION

MAX 250 KT below FL100
or as by ATC.

Not applicable within airspace C.

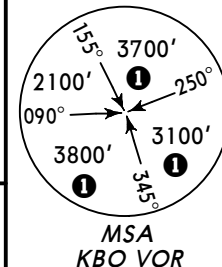
Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
NOR 8F	14L	On 138° track to KBO 4.8 DME, turn RIGHT, intercept 190° bearing from LV (CAT D continue RIGHT turn) to KBO 6.8 DME, turn RIGHT, intercept NOR R-106 inbound to NOR.
NOR 8K	06	Intercept 064° bearing via LW to D8.0 KBO, turn LEFT, intercept 249° bearing to LJ, intercept NOR R-069 inbound to NOR.
NOR 7M	32L	Climb towards LJ, at KBO 2.7 DME or 700', whichever is later, turn LEFT, intercept NOR R-072 inbound to NOR.
NOR 7P	14L	On 138° track to KBO 4.3 DME, turn RIGHT, intercept 171° bearing from LV to D12.5 KBO, turn RIGHT, intercept NOR R-125 inbound to NOR.

LANGEN
Radar
118.75

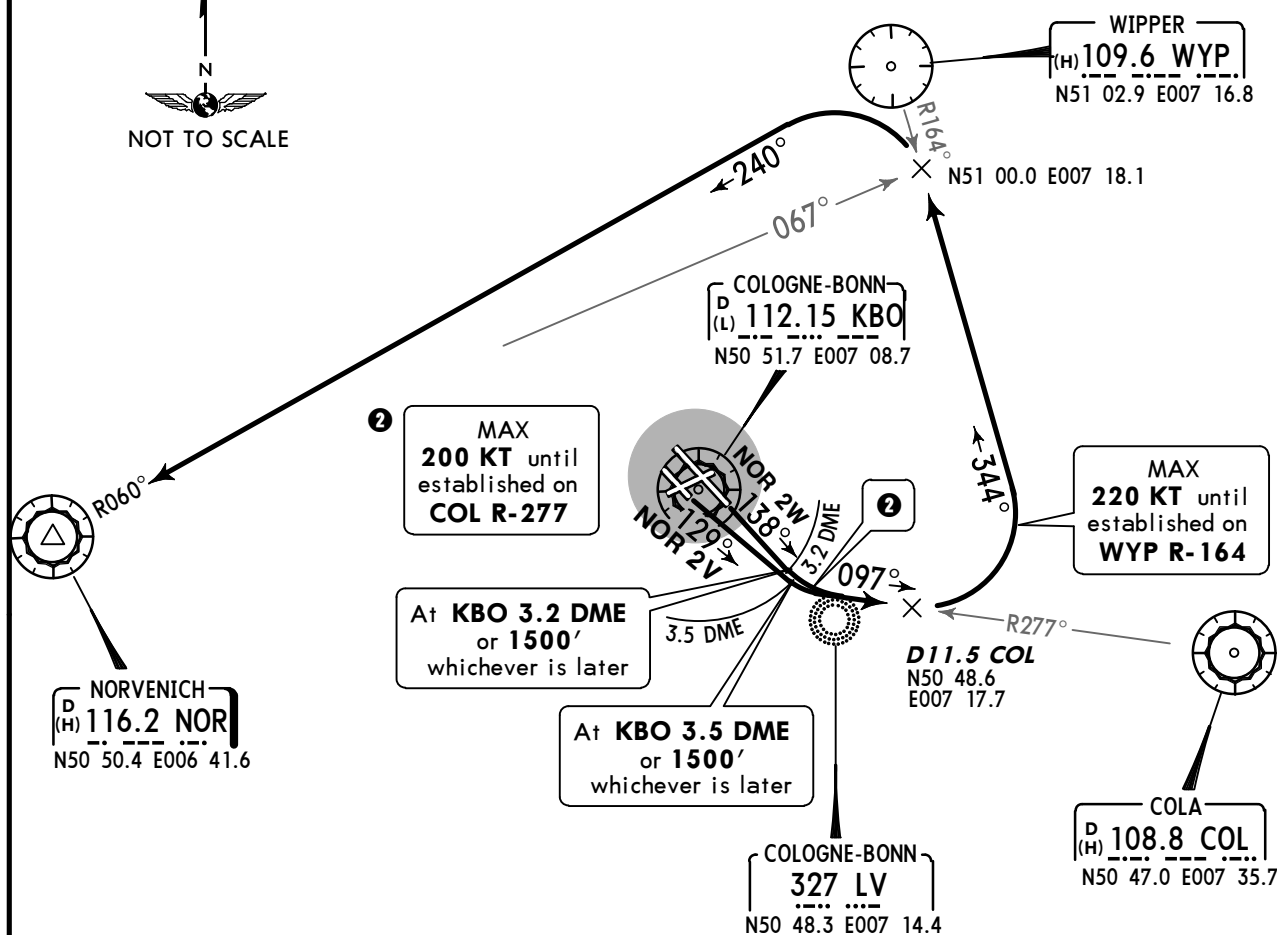
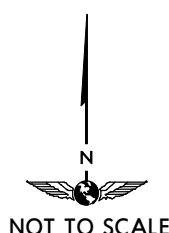
Apt Elev
302'

Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.



**NORVENICH TWO VICTOR (NOR 2V)
NORVENICH TWO WHISKEY (NOR 2W)
RWYS 14R, 14L DEPARTURES
BY ATC**

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



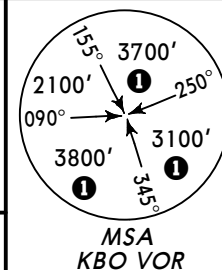
Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
NOR 2V	14R	Climb towards LV, at KBO 3.5 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound, when passing NOR R-067 turn LEFT, intercept NOR R-060 inbound to NOR.
NOR 2W	14L	Climb on 138° track to KBO 3.2 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound, when passing NOR R-067 turn LEFT, intercept NOR R-060 inbound to NOR.

LANGEN
Radar
118.75

Apt Elev
302'

Trans level: By ATC
Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 24: EXPECT close-in obstacles.



① 2800' within 15 NM

**PODIP FIVE BRAVO (PODIP 5B)
PODIP FOUR DELTA (PODIP 4D)
PODIP FOUR ECHO (PODIP 4E)
RWYS 32R, 24, 14R DEPARTURES**

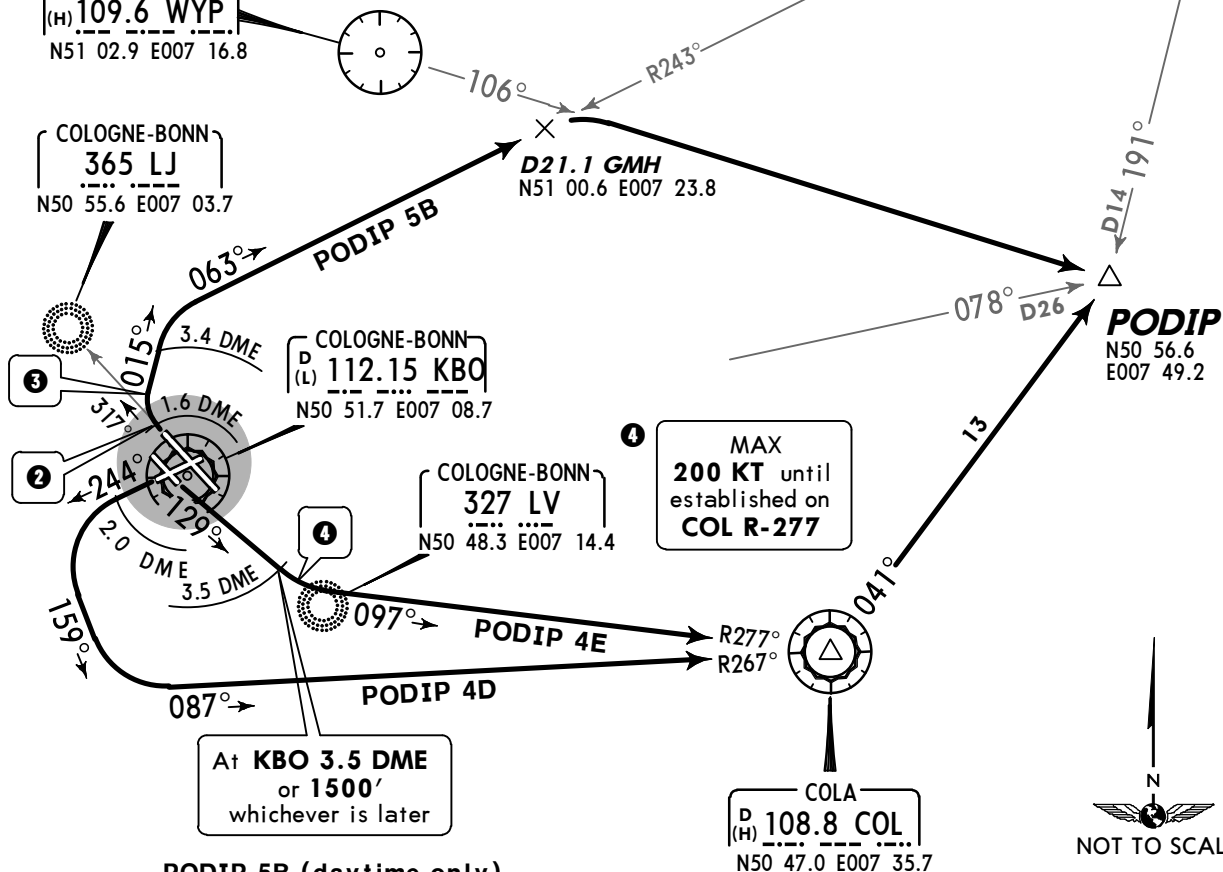
② At KBO 1.6 DME
or 700'
whichever is later

③ MAX 210 KT until
established on
GMH R-243

GERMINGHAUSEN
D(H) 115.4 GMH
N51 10.2 E007 53.5

WIPPER
(H) 109.6 WYP
N51 02.9 E007 16.8

COLOGNE-BONN
365 LJ
N50 55.6 E007 03.7



PODIP 5B (daytime only)

This SID requires a minimum climb gradient of 425' per NM (7.0%) until passing 5000' due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

If unable to comply advise ATC upon start-up.

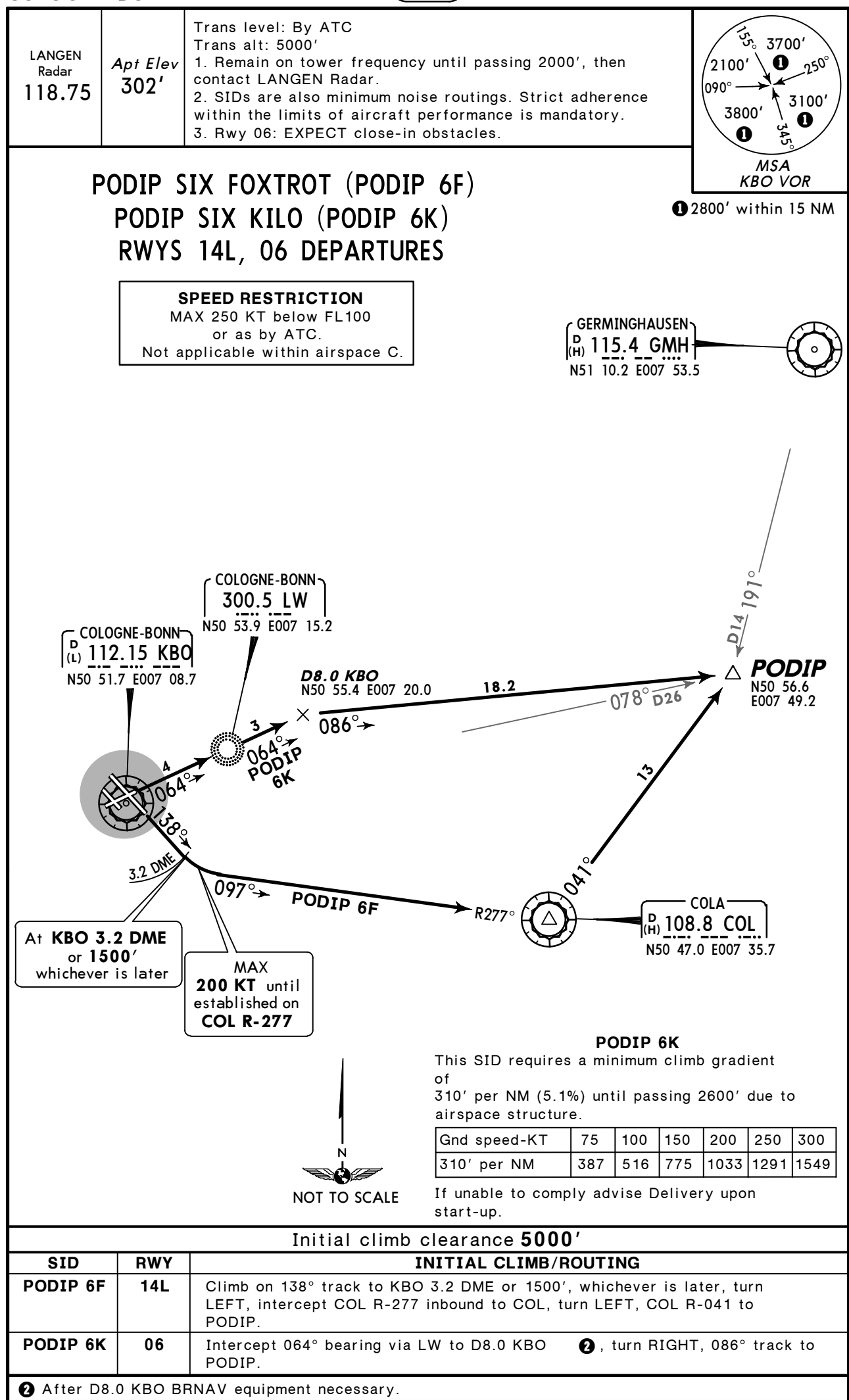
④ MAX
200 KT until
established on
COL R-277

COLA
D(H) 108.8 COL
N50 47.0 E007 35.7

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.

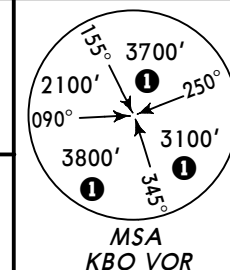
Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB/ROUTING
PODIP 5B	32R	Climb towards LJ, at KBO 1.6 DME or 700', whichever is later, turn RIGHT, 015° track, at KBO 3.4 DME turn RIGHT, intercept GMH R-243 inbound to D21.1 GMH, turn RIGHT, intercept WYP R-106 to PODIP.
PODIP 4D	24	On runway track to KBO 2.0 DME, turn LEFT, 159° track, intercept COL R-267 inbound to COL, turn LEFT, COL R-041 to PODIP.
PODIP 4E	14R	Climb towards LV, at KBO 3.5 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to COL, turn LEFT, COL R-041 to PODIP.



Apt Elev
302'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.

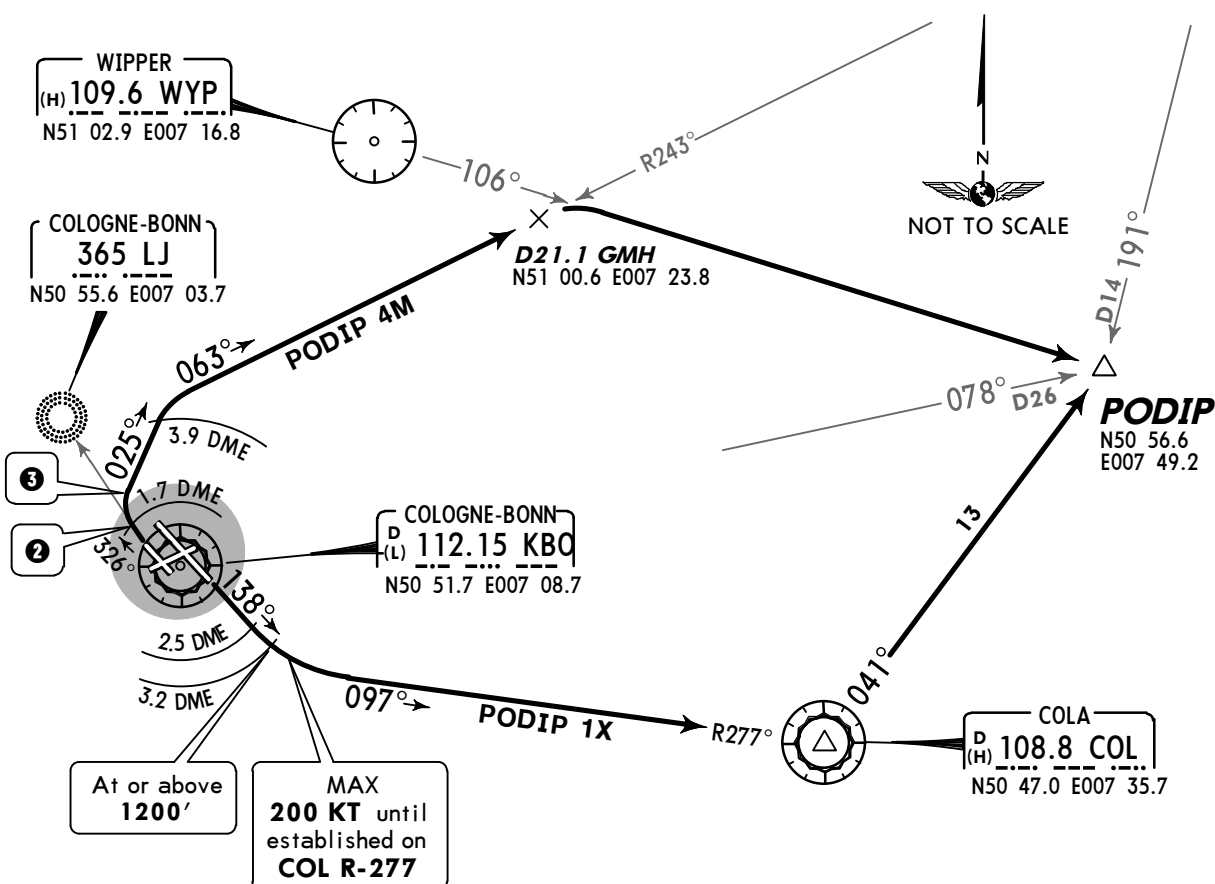


① 2800' within 15 NM

RWYS 32L, 14L DEPARTURES

3 MAX **220 KT** until
established on
GMH R-243

GERMINGHAUSEN
(H) 115.4 GMH
N51 10.2 E007 53.5



328' per NM (5.4%) until passing 1200'.

Not applicable within airspace C.

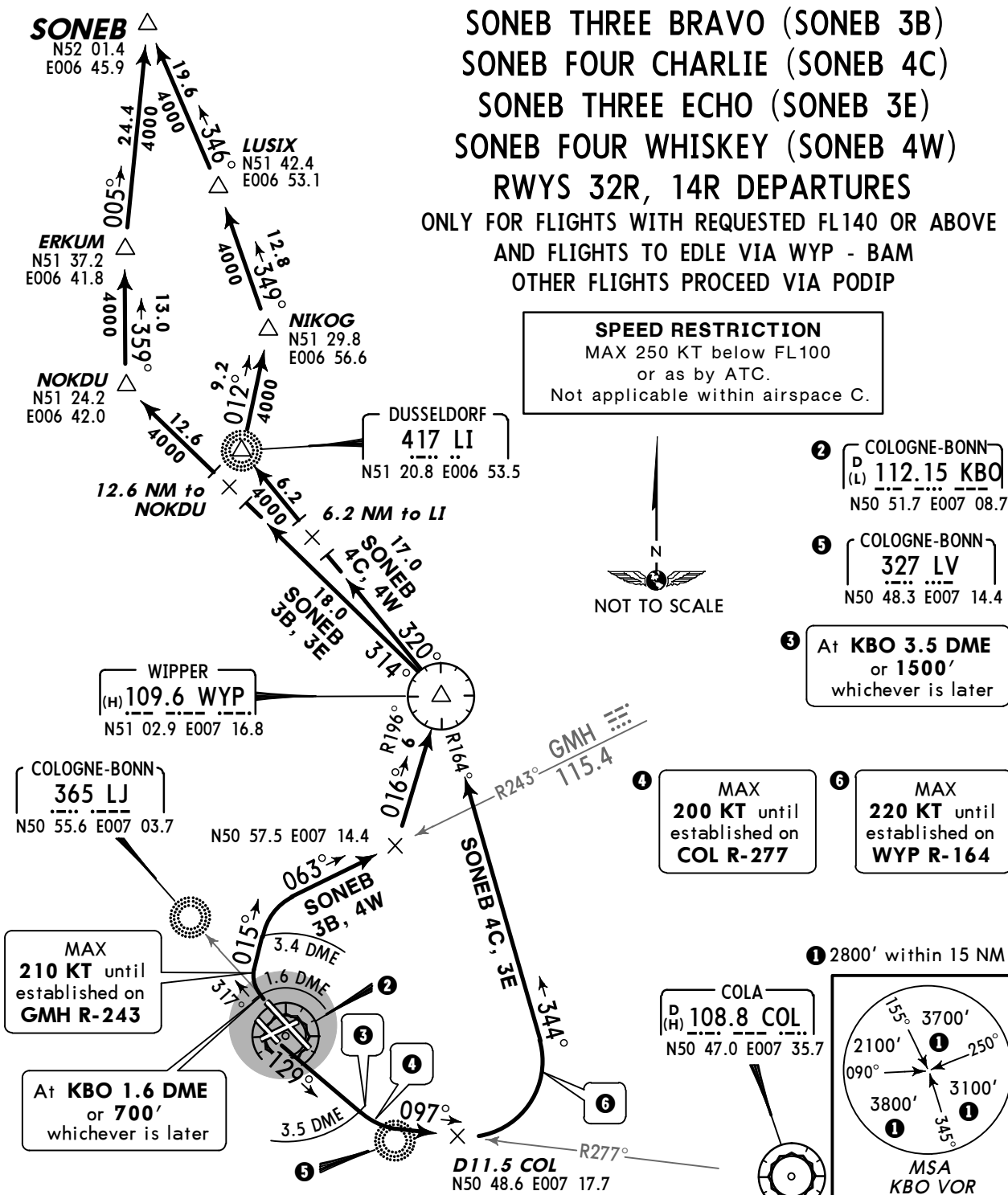
Gnd speed-KT	75	100	150	200	250	300
328' per NM	410	547	820	1093	1367	1640
401' per NM	501	668	1003	1337	1671	2005

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
PODIP 4M	32L	Climb towards LJ, at KBO 1.7 DME or 700', whichever is later, turn RIGHT, 025° track, at KBO 3.9 DME turn RIGHT, intercept GMH R-243 inbound to D21.1 GMH, turn RIGHT, intercept WYP R-106 to PODIP.
PODIP 1X	14L	Climb on 138° track to KBO 2.5 DME, turn LEFT, intercept COL R-277 inbound to COL, turn LEFT, COL R-041 to PODIP.

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB
SONEB 3B	32R	Climb towards LJ, at KBO 1.6 DME or 700', whichever is later, turn RIGHT, 015° track, at KBO 3.4 DME turn RIGHT, intercept GMH R-243 inbound, intercept WYP R-196 inbound to WYP ⑦.
SONEB 4W By ATC		
SONEB 4C By ATC	14R	Climb towards LV, at KBO 3.5 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound to WYP ⑦.
SONEB 3E		
SID	ROUTING	
SONEB 3B, 3E	At WYP turn LEFT, WYP R-314 to NOKDU, turn RIGHT, 359° track to ERKUM, turn RIGHT, 005° track to SONEB.	
SONEB 4C, 4W By ATC	At WYP turn LEFT, WYP R-320 to LI, turn RIGHT, 012° bearing to NIKOG, turn LEFT, 349° track to LUSIX, turn LEFT, 346° track to SONEB.	
⑦ After WYP BRNAV equipment necessary.		

CHANGES: New chart (SIDs transferred).

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LANGEN
Radar
118.75Apt Elev
302'

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 24: EXPECT close-in obstacles.

SONEB
N52 01.4
E006 45.9**ERKUM**
N51 37.2
E006 41.8**NOKDU**
N51 24.2
E006 42.0**LUSIX**
N51 42.4
E006 53.1**NIKOG**
N51 29.8
E006 56.6**DUSSELDORF**
417 LI
N51 20.8 E006 53.5**SPEED RESTRICTION**MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.

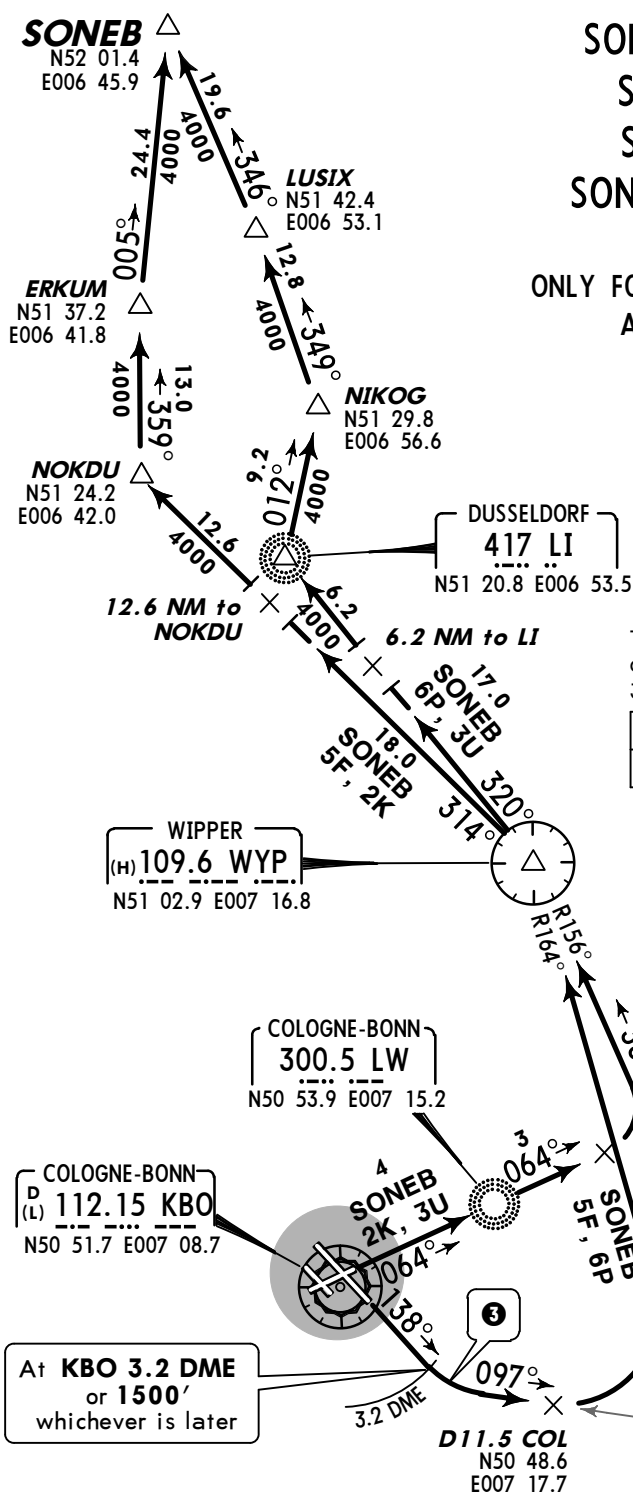
NOT TO SCALE

COLOGNE-BONN
365 LJ
N50 55.6 E007 03.7MAX
220 KT until
established on
GMH R-243At KBO
1.7 DME
or 700'
whichever
is later**COLOGNE-BONN**
P(L) 112.15 KBO
N50 51.7 E007 08.7**COLA**
P(H) 108.8 COL
N50 47.0 E007 35.7

Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB
SONEB 2D	24	On runway track to KBO 2.0 DME, turn LEFT, 159° track, intercept COL R-267 inbound to D14.0 COL, turn LEFT, intercept WYP R-179 inbound to WYP ②.
SONEB 3X By ATC		
SONEB 2M	32L	Climb towards LJ, at KBO 1.7 DME or 700', whichever is later, turn RIGHT, 025° track, at KBO 3.9 DME turn RIGHT, intercept GMH R-243 inbound, intercept WYP R-196 inbound to WYP ②.
SONEB 3V By ATC		
SID	ROUTING	
SONEB 2D, 2M	At WYP turn LEFT, WYP R-314 to NOKDU, turn RIGHT, 359° track to ERKUM, turn RIGHT, 005° track to SONEB.	
SONEB 3V, 3X By ATC	At WYP turn LEFT, WYP R-320 to LI, turn RIGHT, 012° bearing to NIKOG, turn LEFT, 349° track to LUSIX, turn LEFT, 346° track to SONEB.	
② After WYP BRNAV equipment necessary.		

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar. 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.



ONLY FOR FLIGHTS WITH REQUESTED FL140 OR ABOVE
AND FLIGHTS TO EDLE VIA WYP - BAM
OTHER FLIGHTS PROCEED VIA PODIP

MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.

These SIDs require a minimum climb gradient of 310' per NM (5.1%) until passing 900'.

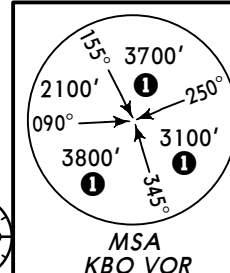
Gnd speed-KT	75	100	150	200	250	300
310' per NM	387	516	775	1033	1291	1549

3 MAX
200 KT until
established on
COL R-277

4 MAX
220 KT until
established on
WYP R-164



① 2800' within 15 NM

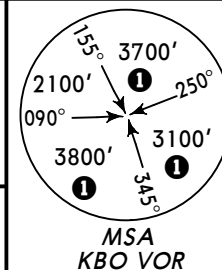
Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB
SONEB 5F	14L	Climb on 138° track to KBO 3.2 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound to WYP ②.
SONEB 6P By ATC		
SONEB 2K	06	Intercept 064° bearing via LW to D8.0 KBO, turn LEFT, intercept WYP R-156 inbound to WYP ②.
SONEB 3U By ATC		
SID	ROUTING	
SONEB 5F, 2K	At WYP turn LEFT, WYP R-314 to NOKDU, turn RIGHT, 359° track to ERKUM, turn RIGHT, 005° track to SONEB.	
SONEB 6P, 3U By ATC	At WYP turn LEFT, WYP R-320 to LI, turn RIGHT, 012° bearing to NIKOG, turn LEFT, 349° track to LUSIX, turn LEFT, 346° track to SONEB.	

② After WYP BRNAV equipment necessary.

LANGEN
Radar
118.75Apt Elev
302'

- Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
 3. RWY 24: EXPECT close-in obstacles.



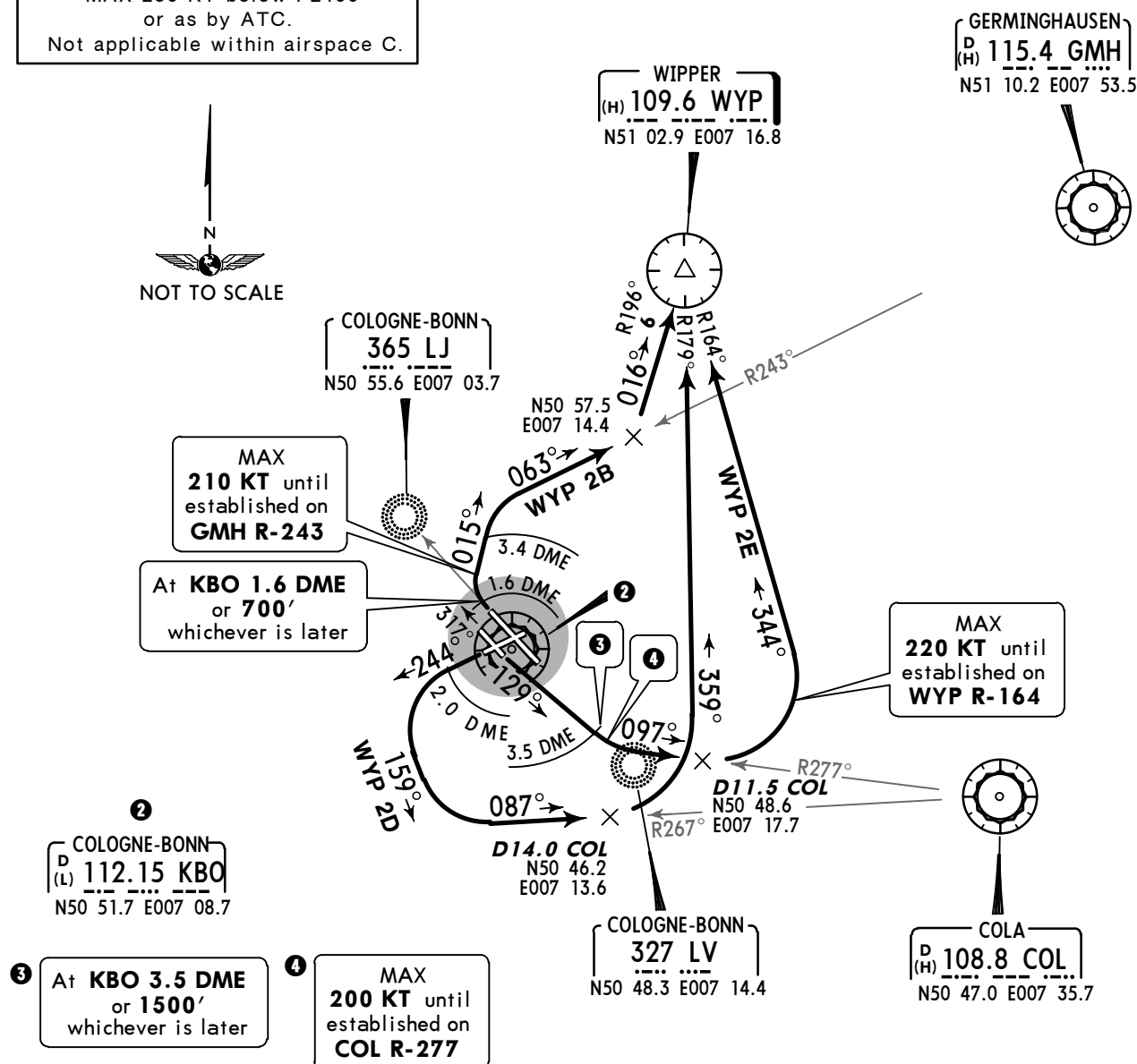
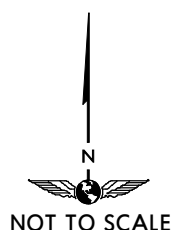
① 2800' within 15 NM

WIPPER TWO BRAVO (WYP 2B)
WIPPER TWO DELTA (WYP 2D)
WIPPER TWO ECHO (WYP 2E)
RWYS 32R, 24, 14R DEPARTURES
BY ATC

SPEED RESTRICTION

MAX 250 KT below FL100
or as by ATC.

Not applicable within airspace C.



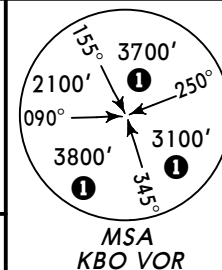
Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB/ROUTING
WYP 2B	32R	Climb towards LJ, at KBO 1.6 DME or 700', whichever is later, turn RIGHT, 015° track, at KBO 3.4 DME turn RIGHT, intercept GMH R-243 inbound, intercept WYP R-196 inbound to WYP.
WYP 2D	24	On runway track to KBO 2.0 DME, turn LEFT, 159° track, intercept COL R-267 inbound to D14.0 COL, turn LEFT, intercept WYP R-179 inbound to WYP.
WYP 2E	14R	Climb towards LV, at KBO 3.5 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound to WYP.

LANGEN
Radar
118.75

Apt Elev
302'

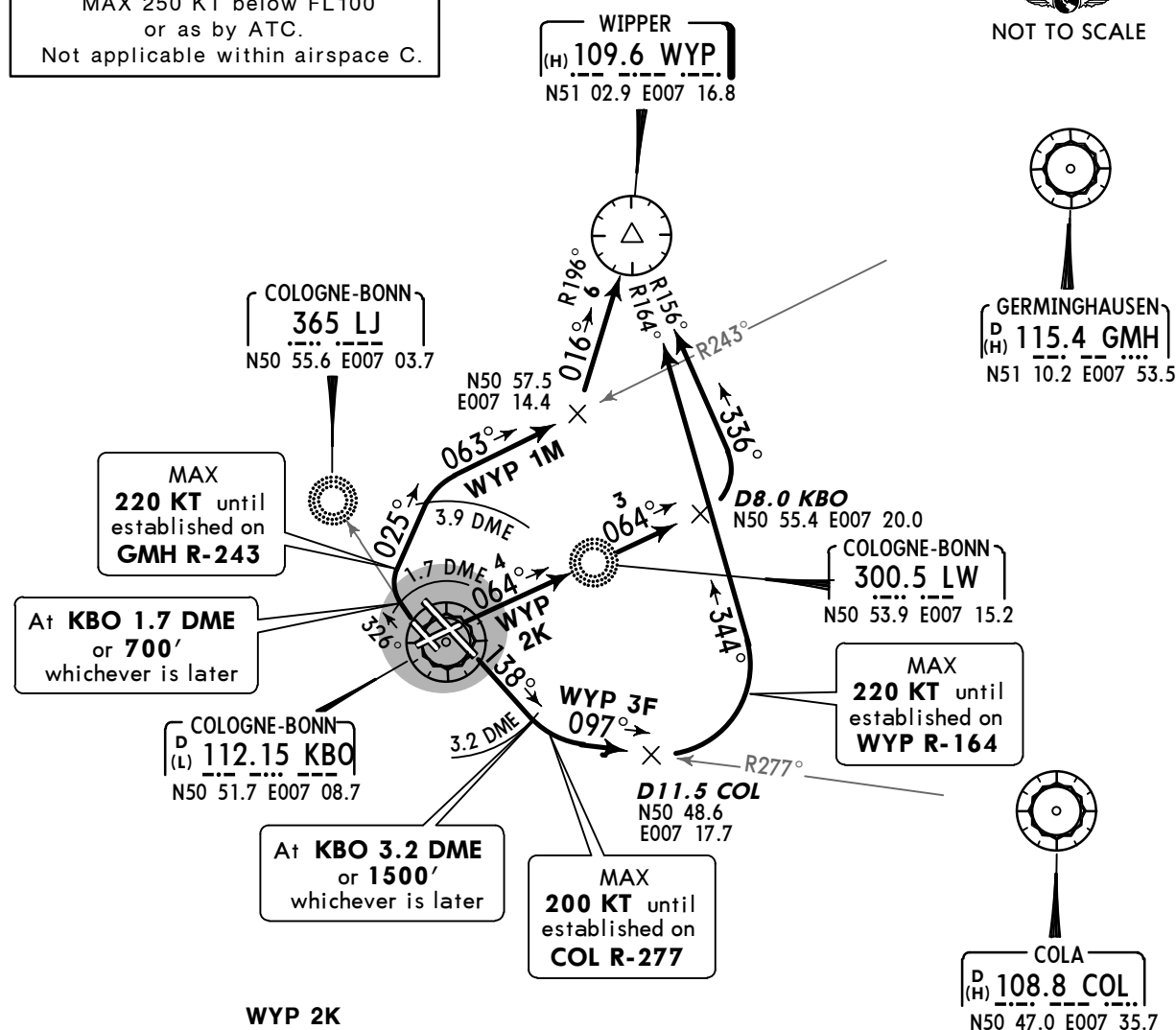
Trans level: By ATC
Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.



2800' within 15 NM

WIPPER THREE FOXTROT (WYP 3F)
WIPPER TWO KILO (WYP 2K)
WIPPER ONE MIKE (WYP 1M)
RWYS 14L, 06, 32L DEPARTURES
BY ATC

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



WYP 2K

This SID requires a minimum climb gradient of 310' per NM (5.1%) until passing 900'.

Gnd speed-KT	75	100	150	200	250	300
310' per NM	387	516	775	1033	1291	1549

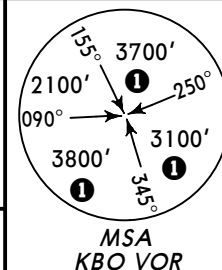
Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB/ROUTING
WYP 3F	14L	Climb on 138° track to KBO 3.2 DME or 1500', whichever is later, turn LEFT, intercept COL R-277 inbound to D11.5 COL, turn LEFT, intercept WYP R-164 inbound to WYP.
WYP 2K	06	Intercept 064° bearing via LW to D8.0 KBO, turn LEFT, intercept WYP R-156 inbound to WYP.
WYP 1M	32L	Climb towards LJ, at KBO 1.7 DME or 700', whichever is later, turn RIGHT, 025° track, at KBO 3.9 DME turn RIGHT, intercept GMH R-243 inbound, intercept WYP R-196 inbound to WYP.

LANGEN
Radar
118.75

Apt Elev
302'

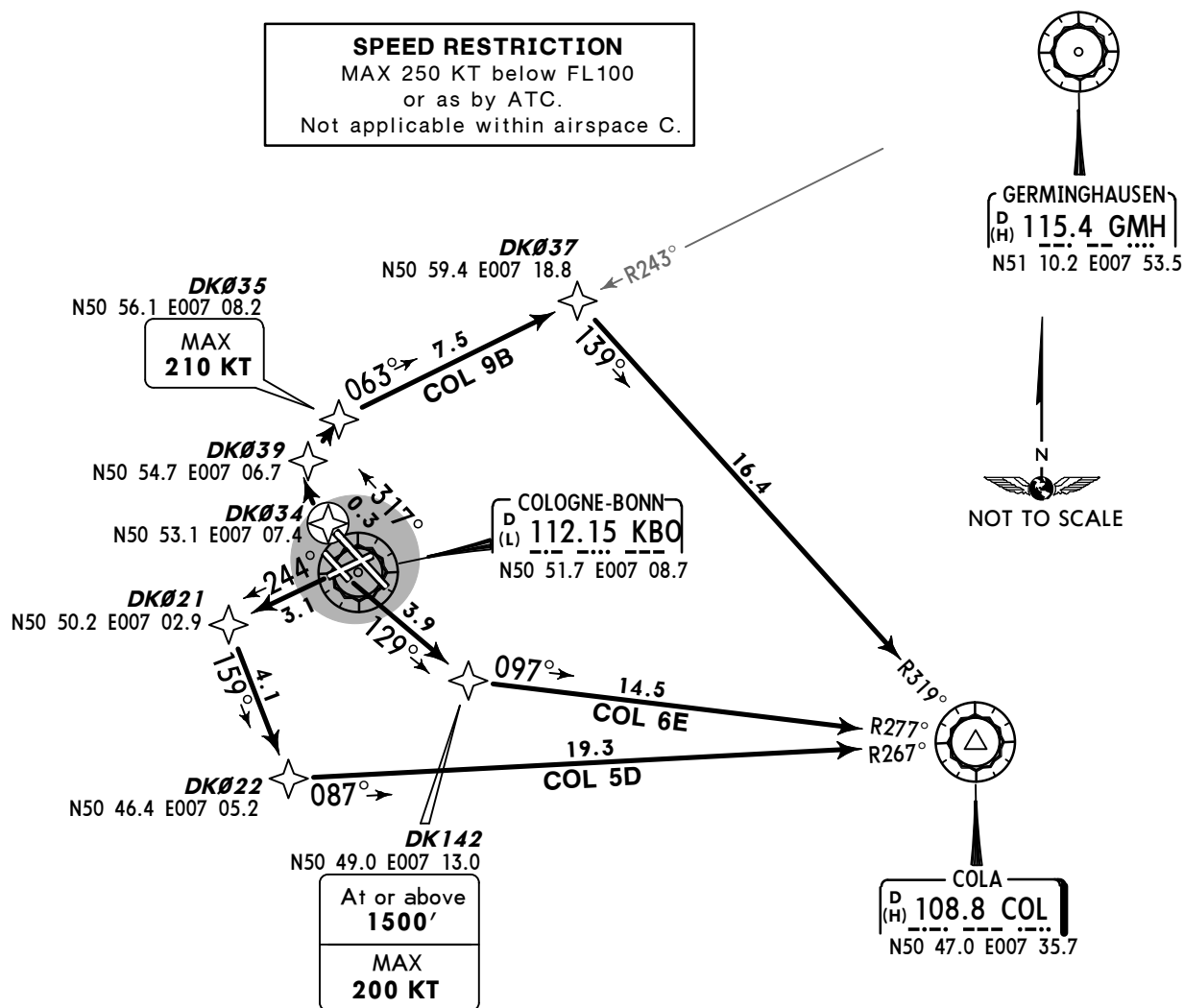
Trans level: By ATC
Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then
contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence
within the limits of aircraft performance is mandatory.
3. Rwy 24: EXPECT close-in obstacles.



COLA NINE BRAVO (COL 9B)
COLA FIVE DELTA (COL 5D)
COLA SIX ECHO (COL 6E)
RWYS 32R, 24, 14R RNAV DEPARTURES
(OVERLAY 10-3B)

ONLY FOR LOCAL TRAINING FLIGHTS AND FOR FLIGHTS TO EDDF

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



COL 9B (daytime only)

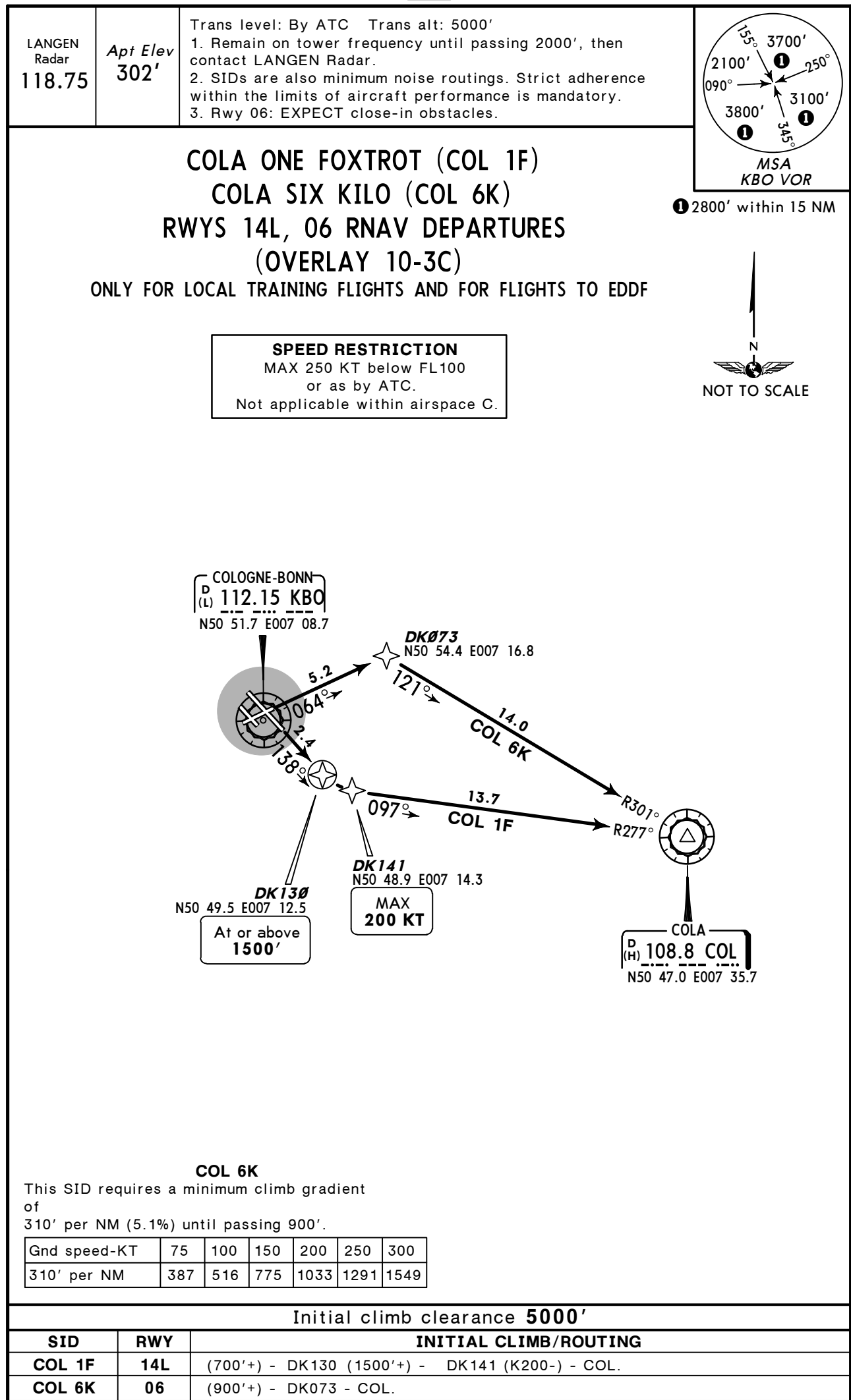
This SID requires a minimum climb gradient
of
425' per NM (7.0%) until passing 5000' due to
airspace structure.

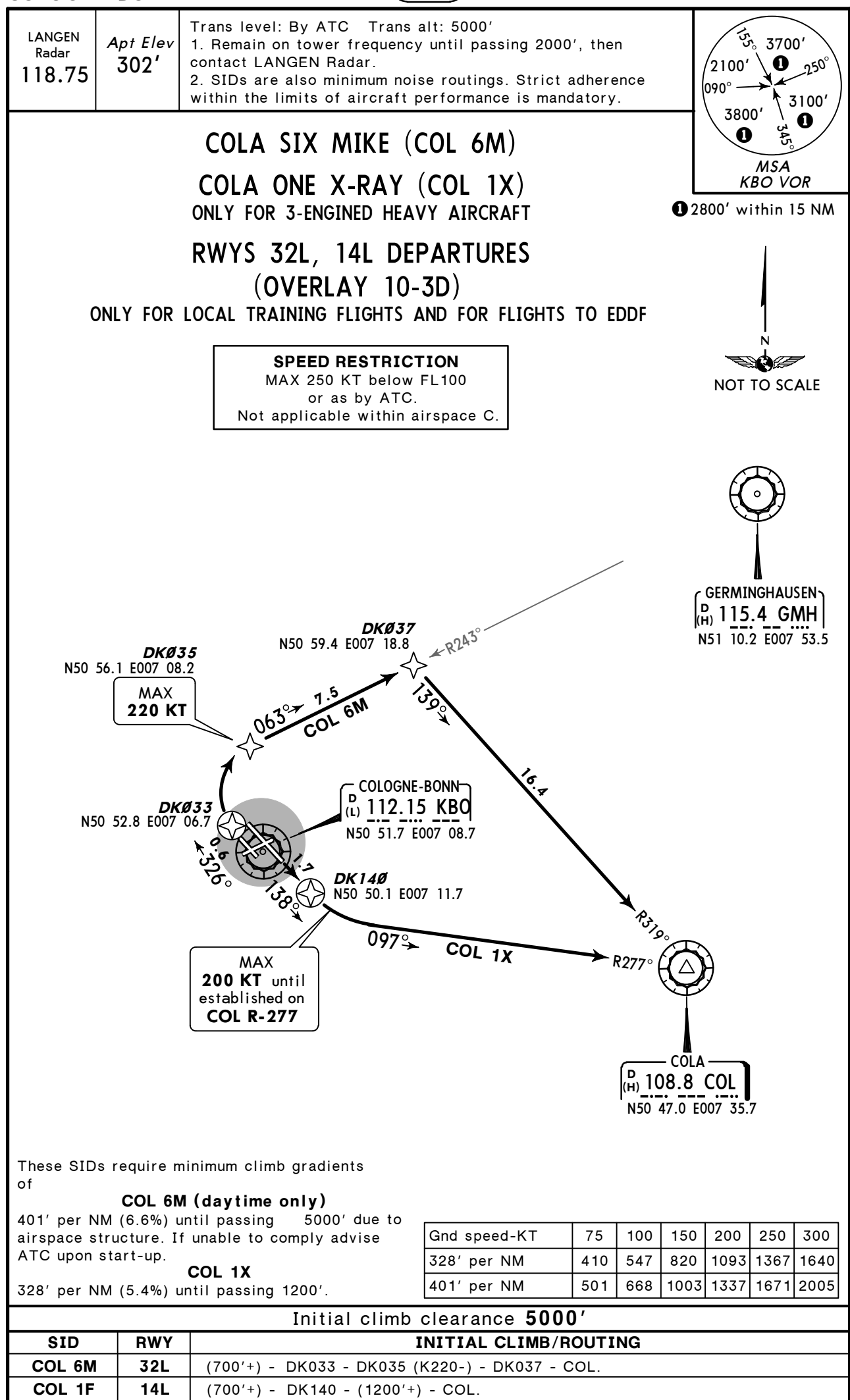
Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

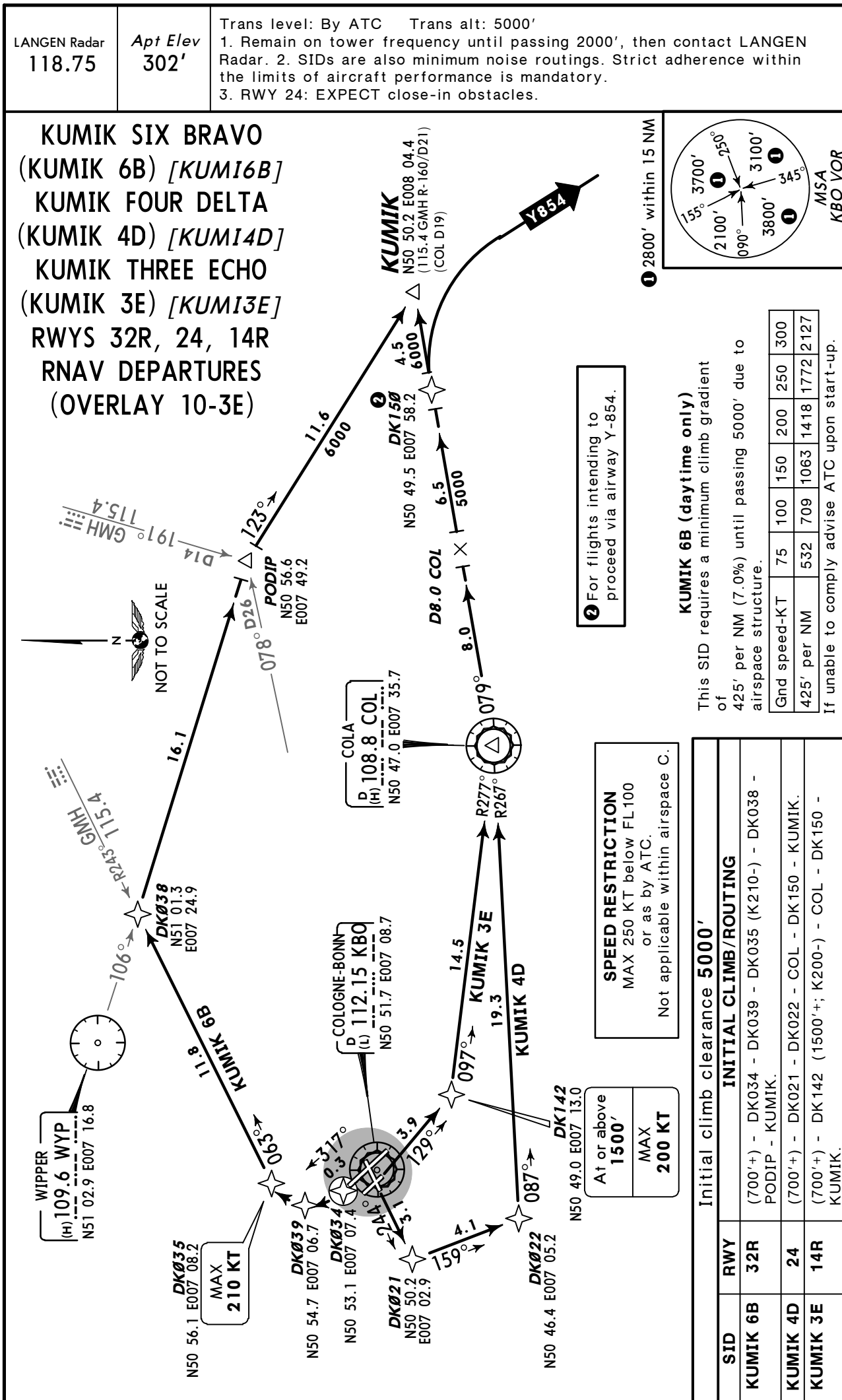
If unable to comply advise ATC upon start-up.

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
COL 9B	32R	(700'+) - DK034 - DK039 - DK035 (K210-) - DK037 - COL.
COL 5D	24	(700'+) - DK021 - DK022 - COL.
COL 6E	14R	(700'+) - DK142 (1500'+ ; K200-) - COL.







SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.

COLOGNE-BONN
300.5 LW
N50 53.9 E007 15.2

COLOGNE-BONN
112.15 KBO
N50 51.7 E007 08.7

DK071
N50 55.4 E007 20.4

DK130
N50 49.5 E007 12.5
At or above 1500'

DK141
N50 48.9 E007 14.3
MAX 200 KT

DK150
N50 49.5 E007 58.2

COLA
108.8 COL
N50 47.0 E007 35.7

KUMIK 5F
13.7
097°

KUMIK 5K
4.1
064°

Y854
115.4 GMH R-160/D21

Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB/ROUTING
KUMIK 5F	14L	(700'+) - DK130 (1500'+) - DK141 (K200-) - COL - DK150 - KUMIK.
KUMIK 5K	06	(900'+) - LW - DK071 - PODIP - KUMIK.

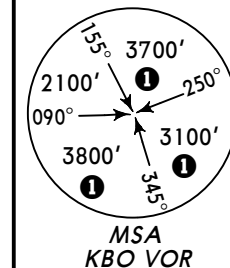
COLA
D 108.8 COL
(H)
N50 47.0 E007 35.7

*LANGEN
Radar
135.35

Apt Elev
302'

Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar. 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory. 3. RWY 24: EXPECT close-in obstacles.

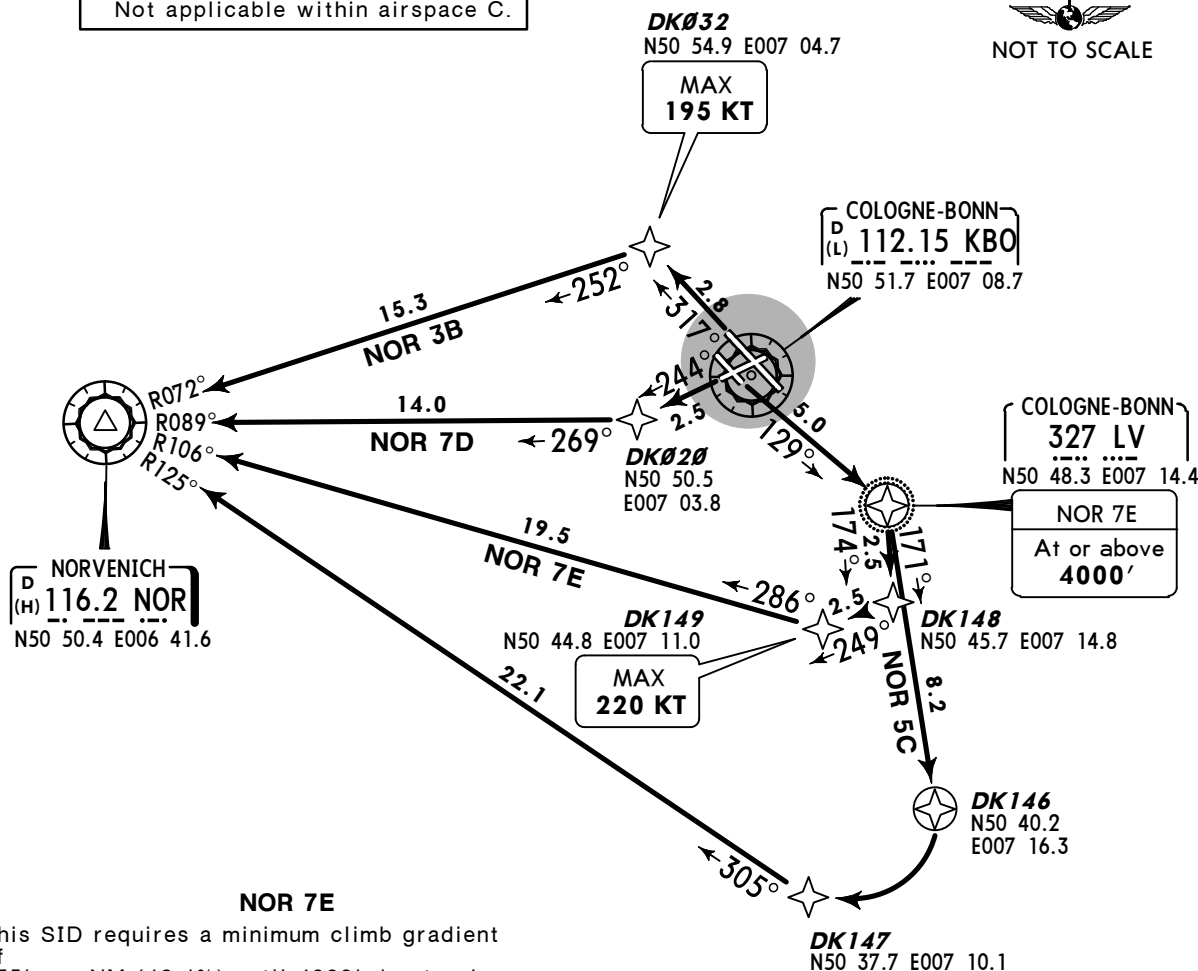
NORVENICH THREE BRAVO (NOR 3B)
NORVENICH FIVE CHARLIE (NOR 5C)
NORVENICH SEVEN DELTA (NOR 7D)
NORVENICH SEVEN ECHO (NOR 7E)
RWYS 32R, 14R, 24 RNAV DEPARTURES
(OVERLAY 10-3H)



① 2800' within 15 NM

Flights intending to proceed above FL190 have to be able to cross FIR/UIR boundary (NOR 23.0 DME) at or above FL200. If unable to comply contact Delivery prior to start-up.

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



NOR 7E

This SID requires a minimum climb gradient of 735' per NM (12.1%) until 4000' due to airspace structure, if unable to comply file RNAV SID NOR 5C.

Gnd speed-KT	75	100	150	200	250	300
735' per NM	919	1225	1838	2451	3063	3676

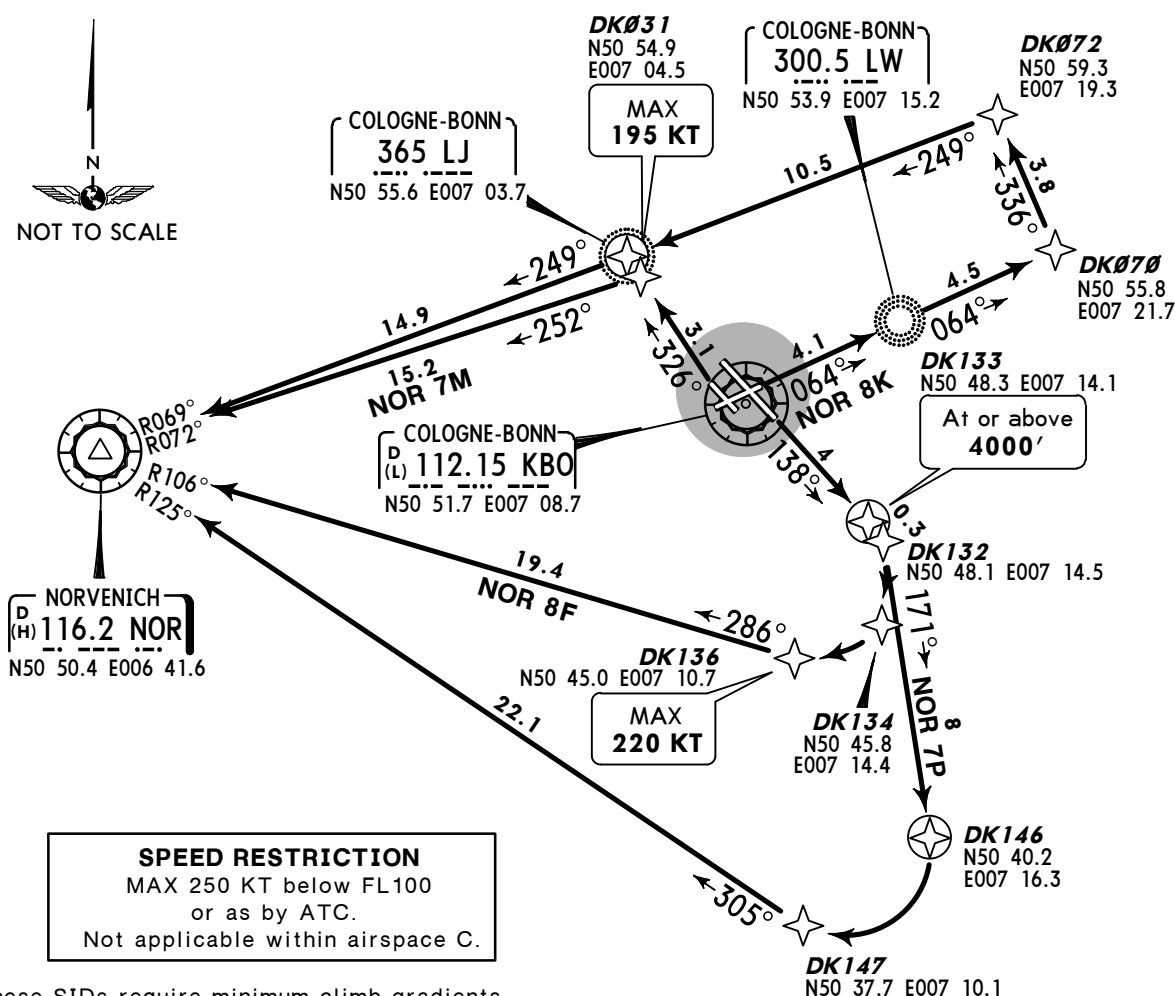
Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
NOR 3B	32R	(700'+) - DK032 (K195-) - NOR.
NOR 5C	14R	(700'+) - LV - DK146 - DK147 - NOR.
NOR 7D	24	(700'+) - DK020 - NOR.
NOR 7E	14R	(700'+) - LV (4000'+) - DK148 - DK149 (K220-) - NOR.

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.

Flights intending to proceed above FL190 have to be able to cross FIR/UIR boundary (NOR 23.0 DME) at or above FL200. If unable to comply contact Delivery prior to start-up.



310' per NM (5.1%) until passing 900'.

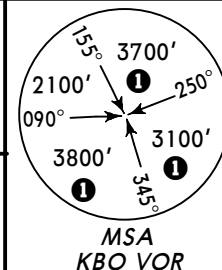
Gnd speed-KT	75	100	150	200	250	300
924' per NM	1154	1539	2309	3079	3848	4618
310' per NM	387	516	775	1033	1291	1549

SID	RWY	INITIAL CLIMB/ROUTING
NOR 8F	14L	(700'+) - DK133 (4000'+) - DK134 - DK136 (K220-) - NOR.
NOR 8K	06	(900'+) - LW - DK070 - DK072 - LJ - NOR.
NOR 7M	32L	(700'+) - DK031 (K195-) - NOR.
NOR 7P	14L	(700'+) - DK132 - DK146 - DK147 - NOR.

LANGEN
Radar
118.75

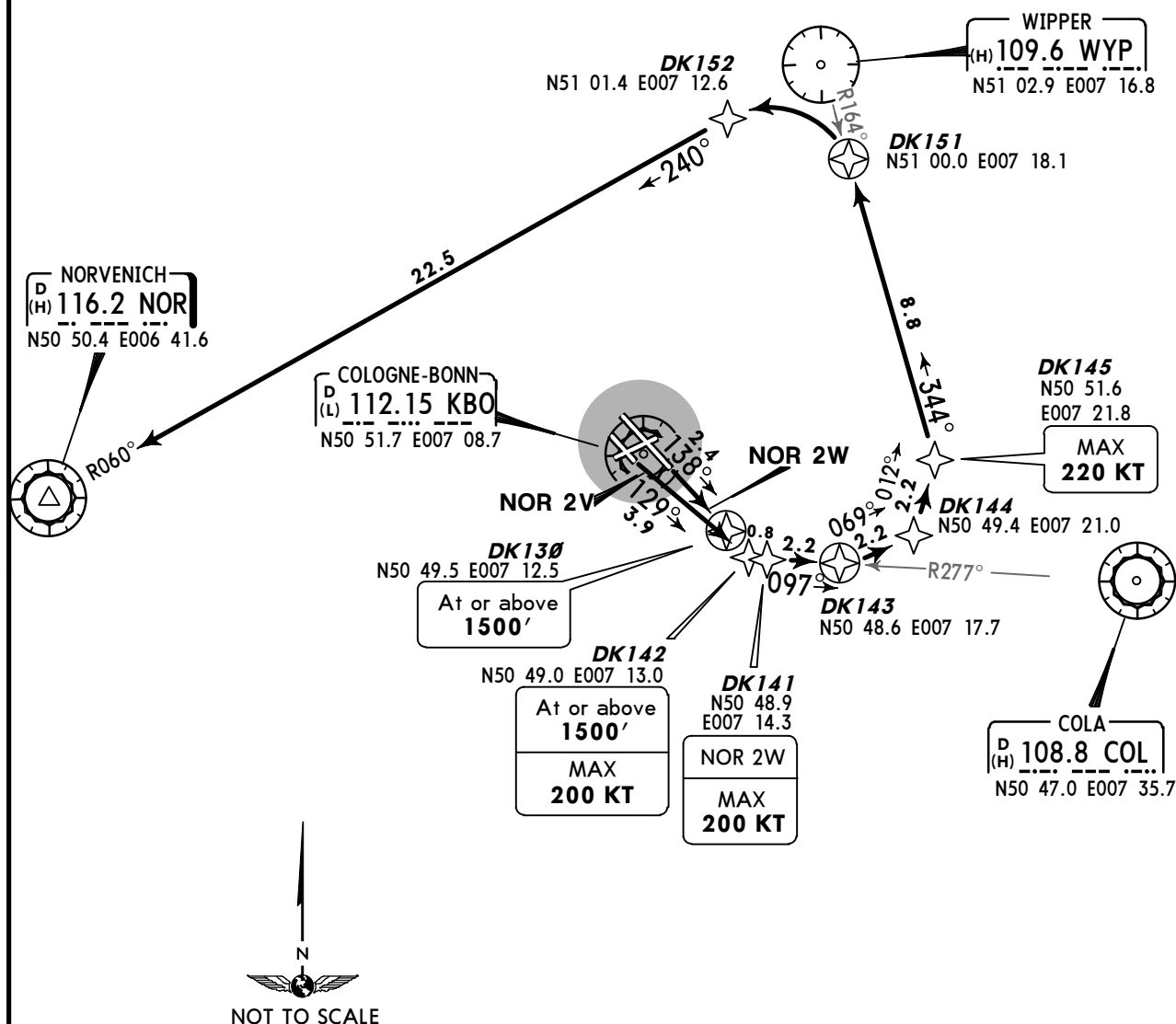
Apt Elev
302'

Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.



**NORVENICH TWO VICTOR (NOR 2V)
NORVENICH TWO WHISKEY (NOR 2W)
RWYS 14R, 14L RNAV DEPARTURES
(OVERLAY 10-3K)
BY ATC**

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
NOR 2V	14R	(700'+) - DK142 (1500'+; K200-) - DK143 - DK144 - DK145 (K220-) - DK151 - DK152 - NOR.
NOR 2W	14L	(700'+) - DK130 (1500'+) - DK141 (K200-) - DK143 - DK144 - DK145 (K220-) - DK151 - DK152 - NOR.

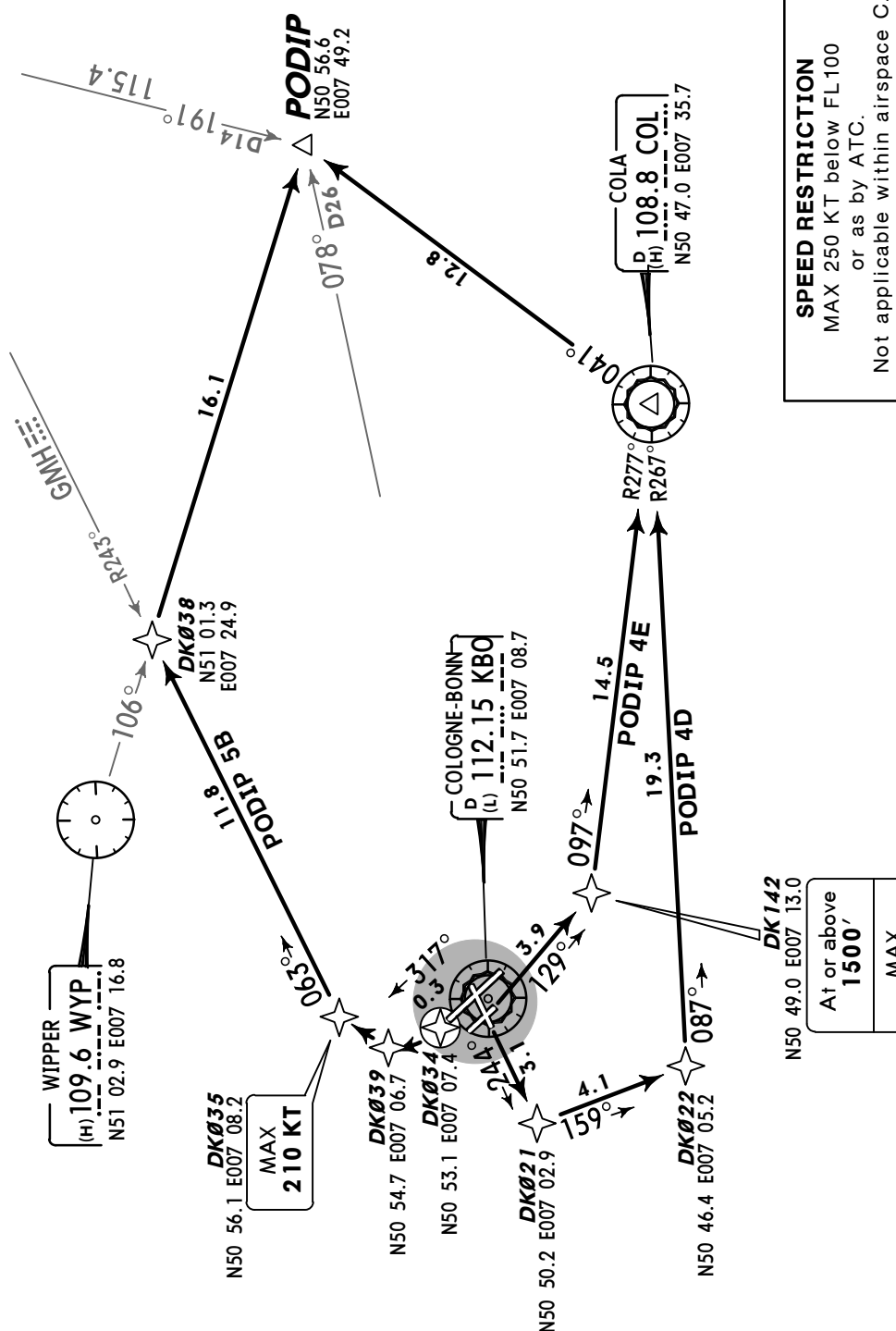
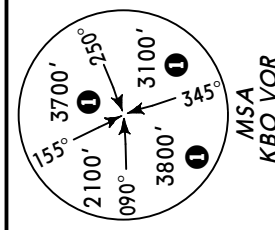
LANGEN Radar
118.75

Apt E/lev
302'

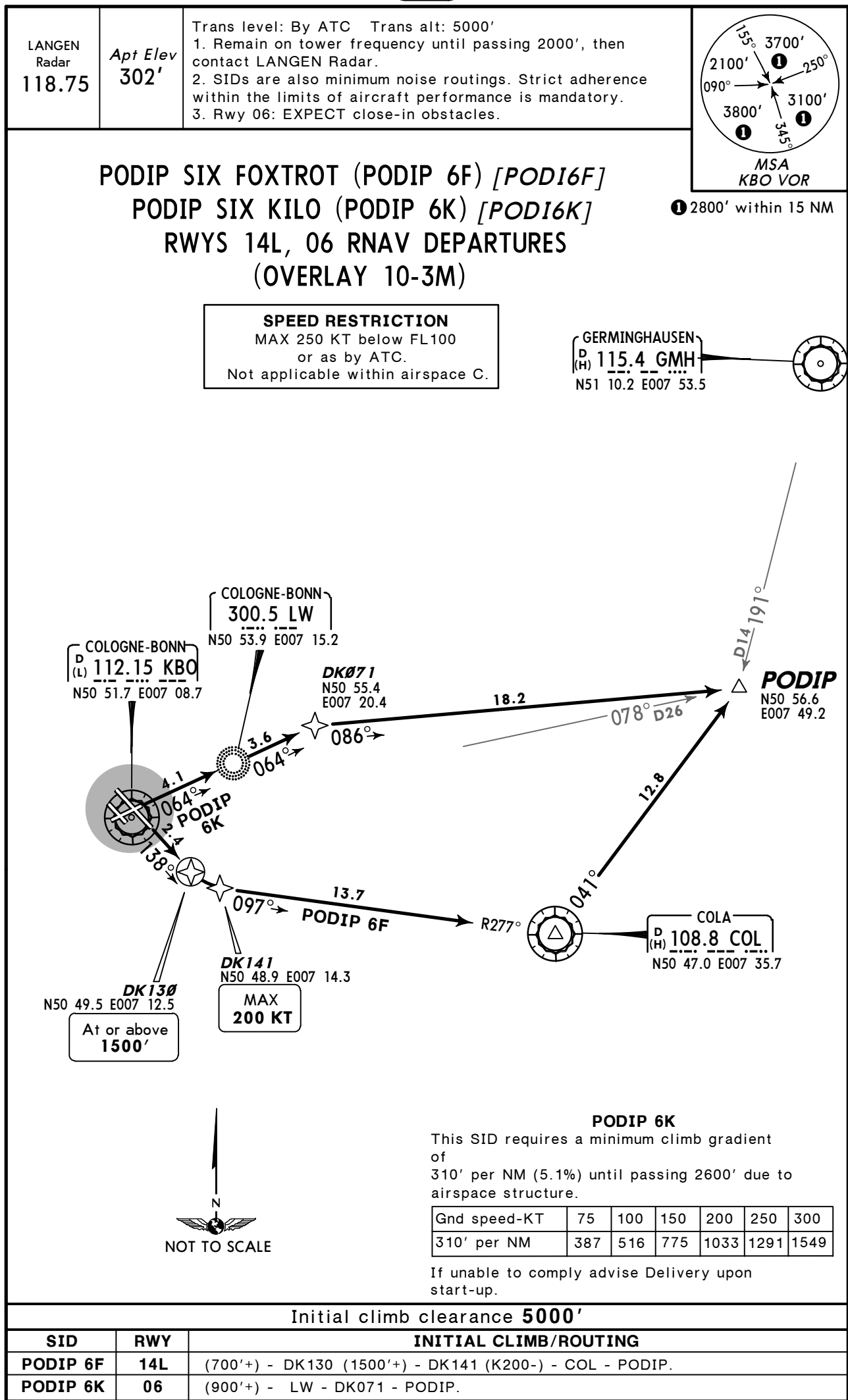
Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar. 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory. 3. RWY 24: EXPECT close-in obstacles.

PODIP FIVE BRAVO (PODIP 5B) [PODI5B]
PODIP FOUR DELTA (PODIP 4D) [PODI4D]
PODIP FOUR ECHO (PODIP 4E) [PODI4E]
RWYS 32R, 24, 14R RNAV DEPARTURES
(OVERLAY 10-3L)

① 2800' within 15 NM



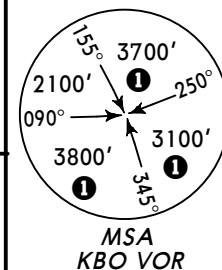
NOT TO SCALE



Apt Elev
302'

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.



① 2800' within 15 NM

PODIP FOUR MIKE (PODIP 4M)/*PODI4M*

PODIP ONE X-RAY (PODIP 1X)[*PODI1X*]

ONLY FOR 3-ENGINE HEAVY AIRCRAFT

**RWYS 32L, 14L DEPARTURES
(OVERLAY 10-3N)**

SPEED RESTRICTION

MAX 250 KT below FL100

or as by ATC.

Not applicable within airspace C.

NOT TO SCALE

GERMINGHAUSEN
D
(H) 115.4 GMH
N51 10.2 E007 53.5

WIPPER
(H) 109.6 WYP
N51 02.9 E007 16.8

DKØ35
N50 56.1 E007 08.2

MAX
220 KT

DKØ33
N50 52.8
E007 06.7

COLOGNE-BONN
D
(L) 112.15 KBO
N50 51.7 E007 08.7

DK140
N50 50.1 E007 11.7

MAX
200 KT until
established on
COL R-277

PODIP
N50 56.6
E007 49.2

COLA
D
(H) 108.8 COL
N50 47.0 E007 35.7

These SIDs require minimum climb gradients of

PODIP 4M (daytime only)

401' per NM (6.6%) until passing 5000' due to
airspace structure. If unable to comply advise
ATC upon start-up.

PODIP 1X

328' per NM (5.4%) until passing 1200'.

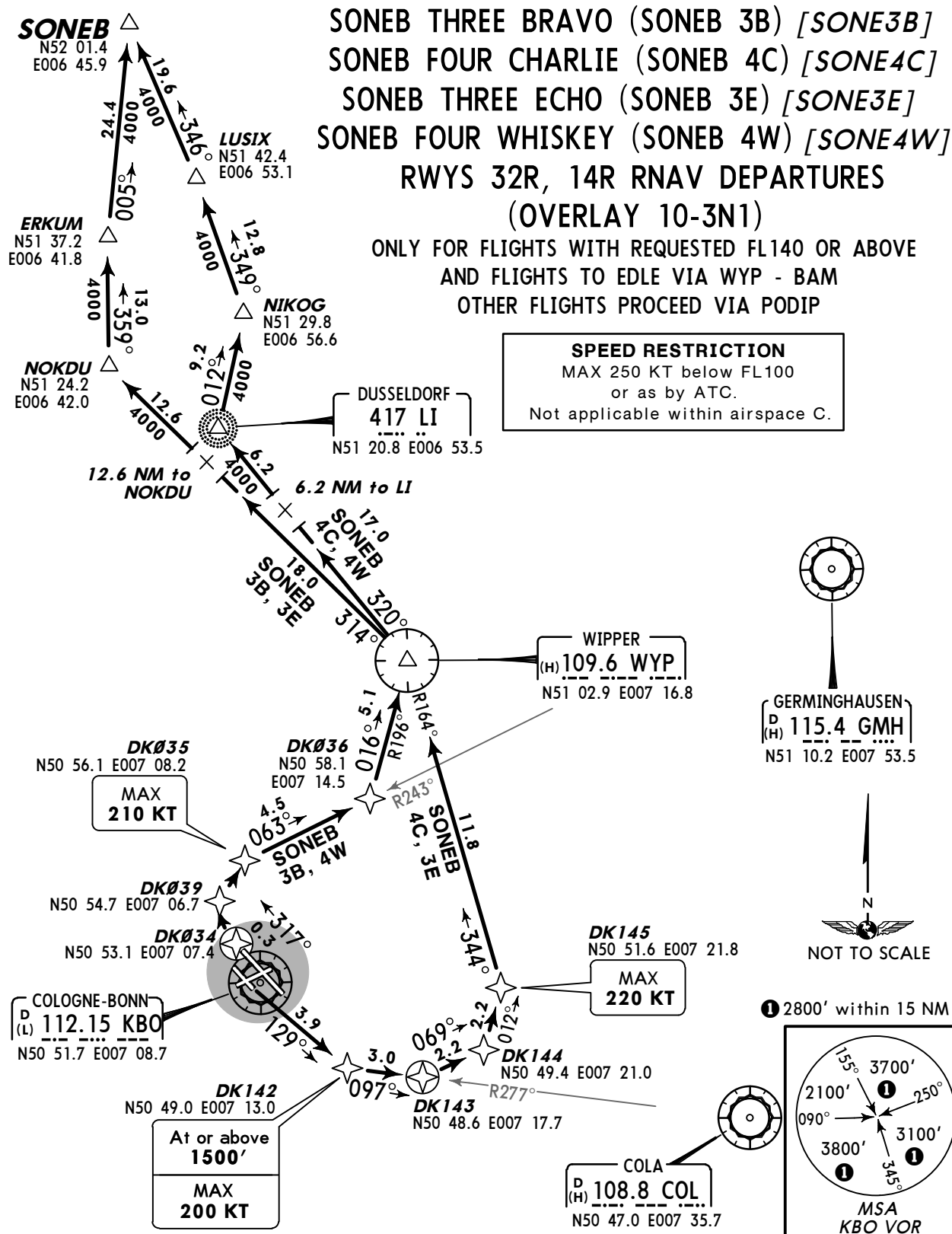
Gnd speed-KT	75	100	150	200	250	300
328' per NM	410	547	820	1093	1367	1640
401' per NM	501	668	1003	1337	1671	2005

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
PODIP 4M	32L	(700'+) - DK033 - DK035 (K220-) - DK038 - PODIP.
PODIP 1X	14L	(700'+) - DK140 - (1200'+) - COL - PODIP.

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.



INITIAL CLIMB/ROUTING

(700'+) - DK034 - DK039 - DK035 (K210-) - DK036 - WYP - NOKDU - ERKUM - SONEB.

(700'+) - DK142 (1500'+; K200-) - DK143 - DK144 - DK145 (K220-) - WYP - LI - NIKOG - LUSIX - SONEB.

(700'+) - DK142 (1500'+; K200-) - DK143 - DK144 - DK145 (K220-) - WYP - NOKDU - ERKUM - SONEB.

(700'+) - DK034 - DK039 - DK035 (K210-) - DK036 - WYP - LI - NIKOG - LUSIX - SONEB.

LANGEN
Radar
118.75

Apt Elev
302'

Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar. 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory. 3. RWY 24: EXPECT close-in obstacles.

SONEB
N52 01.4
E006 45.9

ERKUM
N51 37.2
E006 41.8

NOKDU
N51 24.2
E006 42.0

LUSIX
N51 42.4
E006 53.1

NIKOG
N51 29.8
E006 56.6

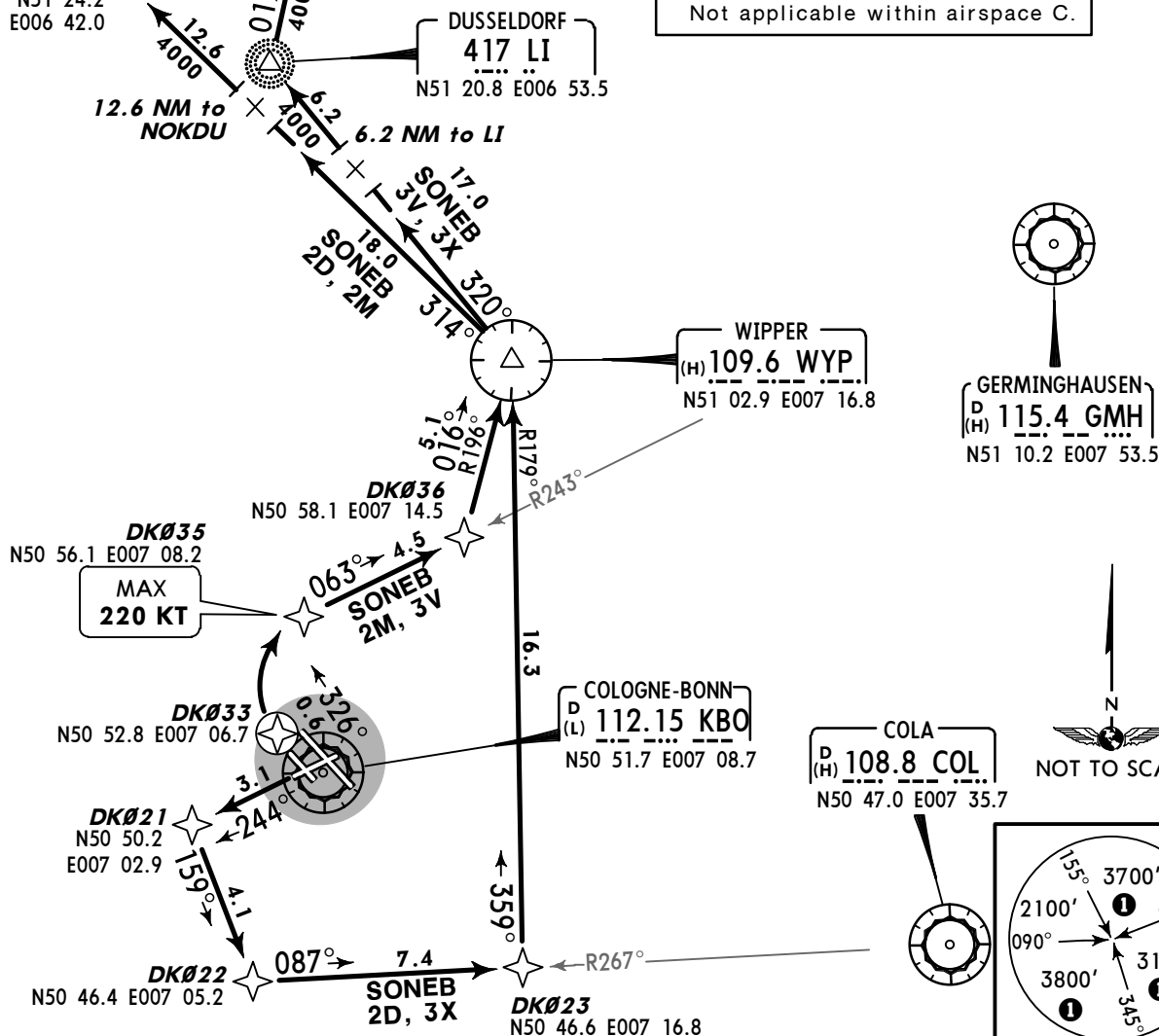
**SONEB TWO DELTA (SONEB 2D) [SONE2D]
SONEB TWO MIKE (SONEB 2M) [SONE2M]
SONEB THREE VICTOR (SONEB 3V) [SONE3V]
SONEB THREE X-RAY (SONEB 3X) [SONE3X]
RWYS 24, 32L RNAV DEPARTURES
(OVERLAY 10-3N2)**

ONLY FOR FLIGHTS WITH REQUESTED FL140 OR ABOVE
AND FLIGHTS TO EDLE VIA WYP - BAM
OTHER FLIGHTS PROCEED VIA PODIP

SPEED RESTRICTION

MAX 250 KT below FL100
or as by ATC.

Not applicable within airspace C.



① 2800' within 15 NM

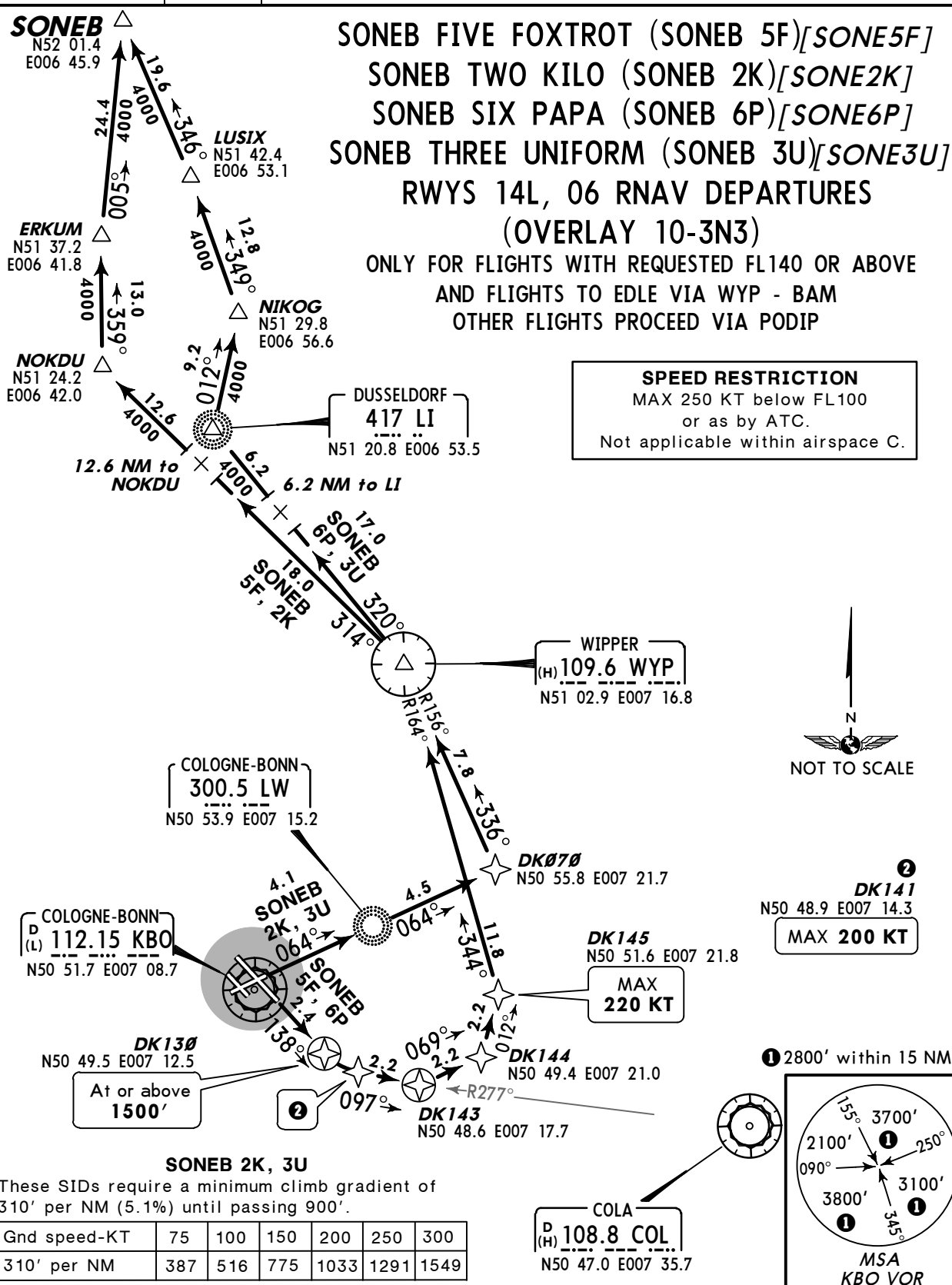
Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
SONEB 2D	24	(700'+) - DK021 - DK022 - DK023 - WYP - NOKDU - ERKUM - SONEB.
SONEB 2M	32L	(700'+) - DK033 - DK035 (K220-) - DK036 - WYP - NOKDU - ERKUM - SONEB.
SONEB 3V By ATC		(700'+) - DK033 - DK035 (K220-) - DK036 - WYP - LI - NIKOG - LUSIX - SONEB.
SONEB 3X By ATC	24	(700'+) - DK021 - DK022 - DK023 - WYP - LI - NIKOG - LUSIX - SONEB.

LANGEN Radar
118.75Apt Elev
302'

Trans level: By ATC Trans alt: 5000'

1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.



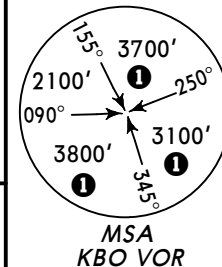
CHANGES: Cross reference revised.

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LANGEN
Radar
118.75

Apt Elev
302'

- Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
 2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
 3. RWY 24: EXPECT close-in obstacles.



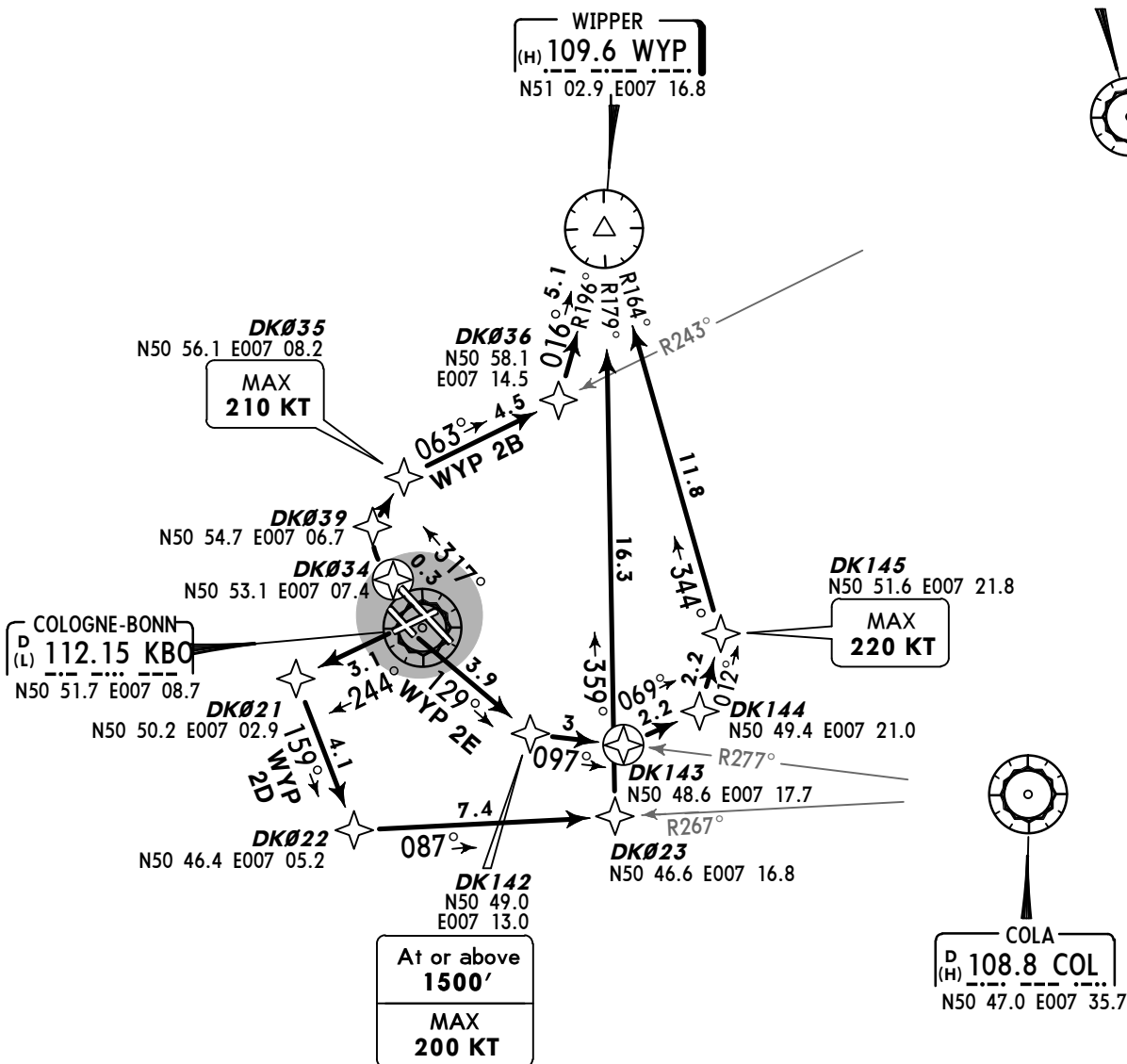
2800' within 15 NM

WIPPER TWO BRAVO (WYP 2B)
WIPPER TWO DELTA (WYP 2D)
WIPPER TWO ECHO (WYP 2E)
RWYS 32R, 24, 14R RNAV DEPARTURES
(OVERLAY 10-3N4)
BY ATC

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



GERMINGHAUSEN
D (H) 115.4 GMH
N51 10.2 E007 53.5



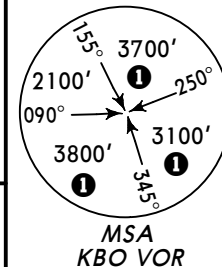
Initial climb clearance 5000'

SID	RWY	INITIAL CLIMB/ROUTING
WYP 2B	32R	(700'+) - DK034 - DK039 - DK035 (K210-) - DK036 - WYP.
WYP 2D	24	(700'+) - DK021 - DK022 - DK023 - WYP.
WYP 2E	14R	(700'+) - DK142 (1500'+; K200-) - DK143 - DK144 - DK145 (K220-) - WYP.

LANGEN
Radar
118.75

Apt Elev
302'

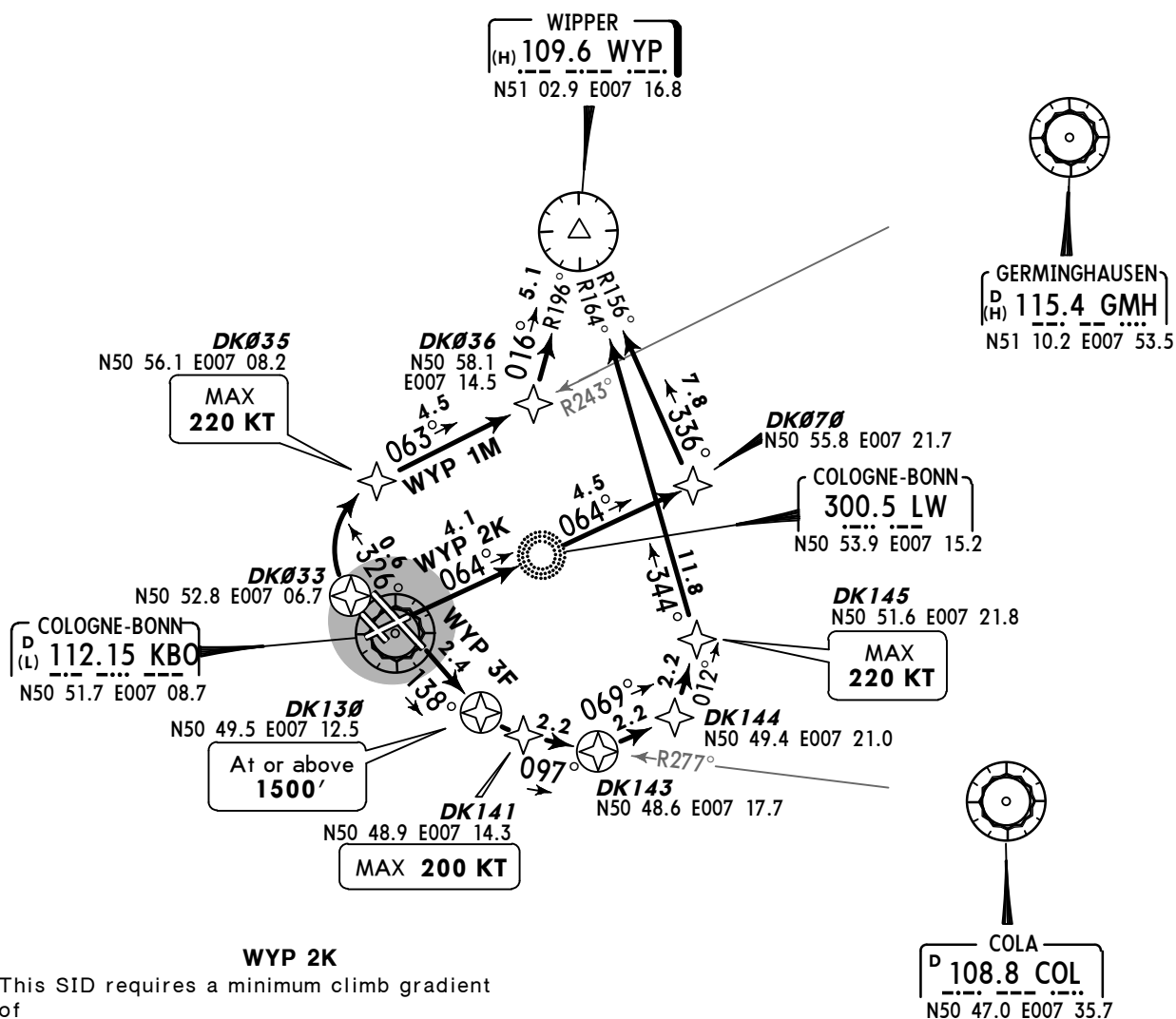
Trans level: By ATC Trans alt: 5000'
1. Remain on tower frequency until passing 2000', then contact LANGEN Radar.
2. SIDs are also minimum noise routings. Strict adherence within the limits of aircraft performance is mandatory.
3. RWY 06: EXPECT close-in obstacles.



2800' within 15 NM

WIPPER THREE FOXTROT (WYP 3F)
WIPPER TWO KILO (WYP 2K)
WIPPER ONE MIKE (WYP 1M)
RWYS 14L, 06, 32L RNAV DEPARTURES
(OVERLAY 10-3P)
BY ATC

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC.
Not applicable within airspace C.



WYP 2K

This SID requires a minimum climb gradient of 310' per NM (5.1%) until passing 900'.

Gnd speed-KT	75	100	150	200	250	300
310' per NM	387	516	775	1033	1291	1549

Initial climb clearance **5000'**

SID	RWY	INITIAL CLIMB/ROUTING
WYP 3F	14L	(700'+) - DK130 (1500'+) - DK141 (K200-) - DK143 - DK144 - DK145 (K220-) - WYP.
WYP 2K	06	(900'+) - LW - DK070 - WYP.
WYP 1M	32L	(700'+) - DK033 - DK035 (K220-) - DK036 - WYP.

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ADDITIONAL RUNWAY INFORMATION

ADDITIONAL RUNWAY INFORMATION						USABLE LENGTHS		TAKE-OFF	WIDTH
RWY						Landing Threshold	Beyond Glide Slope		
06 ① 24	HIRL CL (30m) HIALS PAPI-L (3.0°) RVR							②	148' 45m
	HIRL CL (30m) HIALS SFL REIL PAPI-L (3.0°) RVR						7050' 2149m		

① Rwy partly grooved.

② TAKE OFF RUN AVAILABLE

RWY 06:

From rwy head 8067' (2459m)

twy T int 5282' (1610m)

RWY 24:

From rwy head 8067' (2459m)

twy E int 5381' (1640m)

twy A int 4954' (1510m)

14L	HIRL CL (15m) ALSF-II TDZ REIL ③ HST-A2 RVR		11,565' 3525m	5	197' 60m
32R	HIRL CL (15m) ALSF-II TDZ REIL ③ ④ RVR		11,301' 3445m		

③ PAPI-L (3.0°)

④ HST-A3 & A4

⑤ TAKE OFF RUN AVAILABLE

RWY 14L:

From rwy head 12,516' (3815m)

twy A5 int 11,680' (3560m)

twy A4 int 8990' (2740m)

twy A3 int 6791' (2070m)

RWY 32R:

From rwy head 12,516' (3815m)

twy A1 int 11,713' (3570m)

twy A2 int 8350' (2545m)

twy A3 int 5840' (1780m)

14R	HIRL CL (30m) HIALS PAPI-L (3.0°)			6	148' 45m
32L					

⑥ TAKE OFF RUN AVAILABLE

RWY 14R:

From rwy head 6112' (1863m)

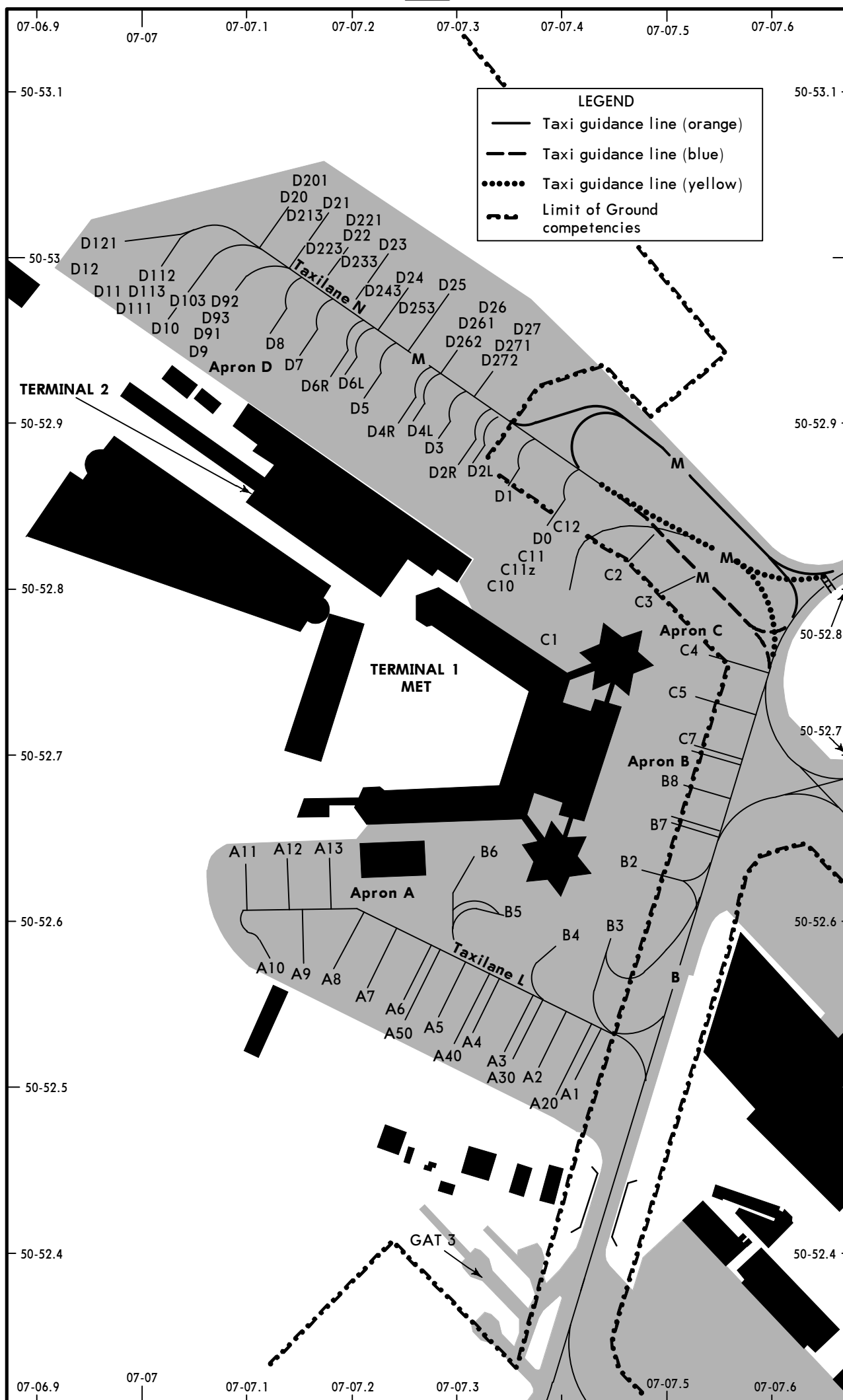
twy T2 int 4364' (1330m)

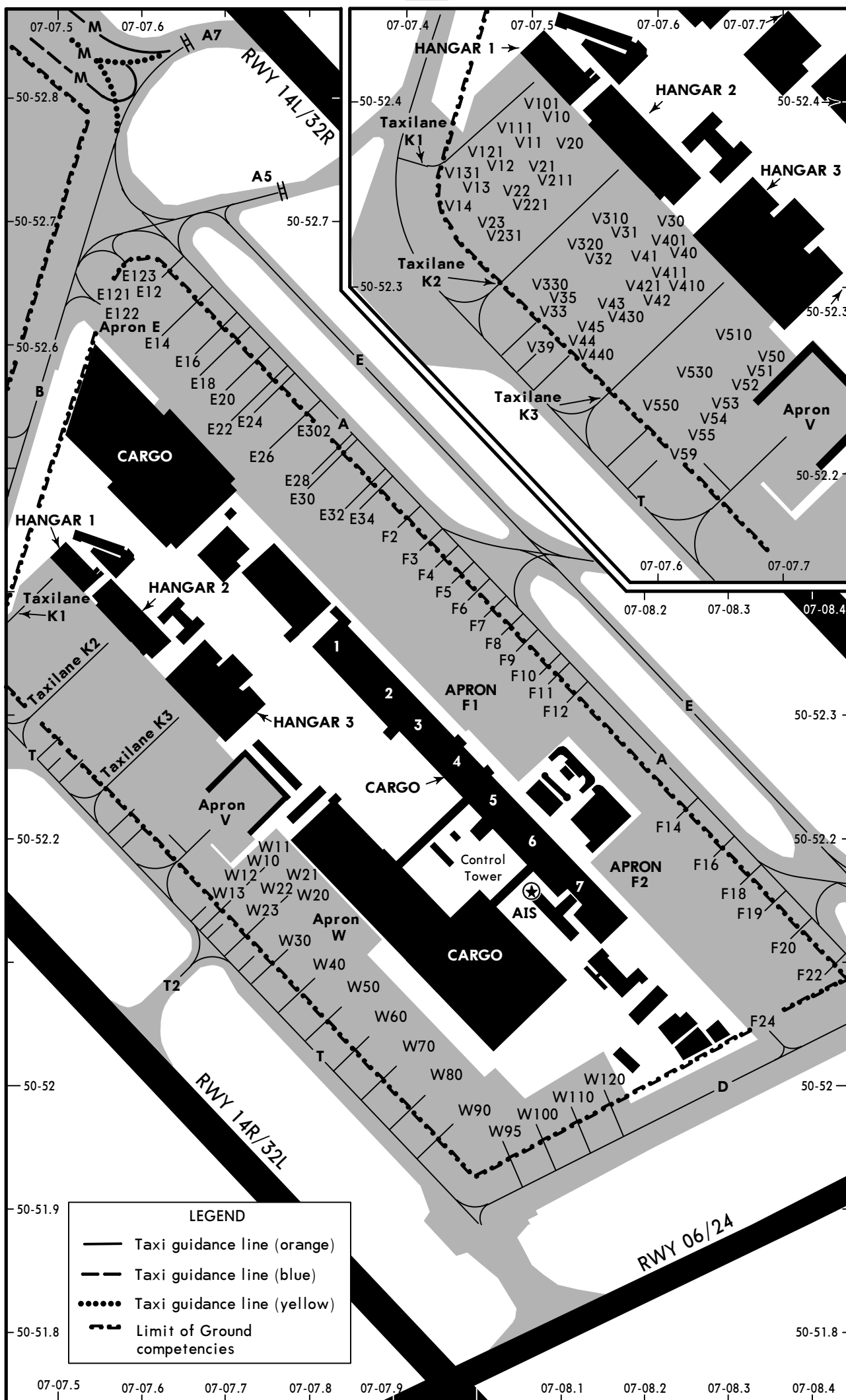
Standard

TAKE-OFF 1

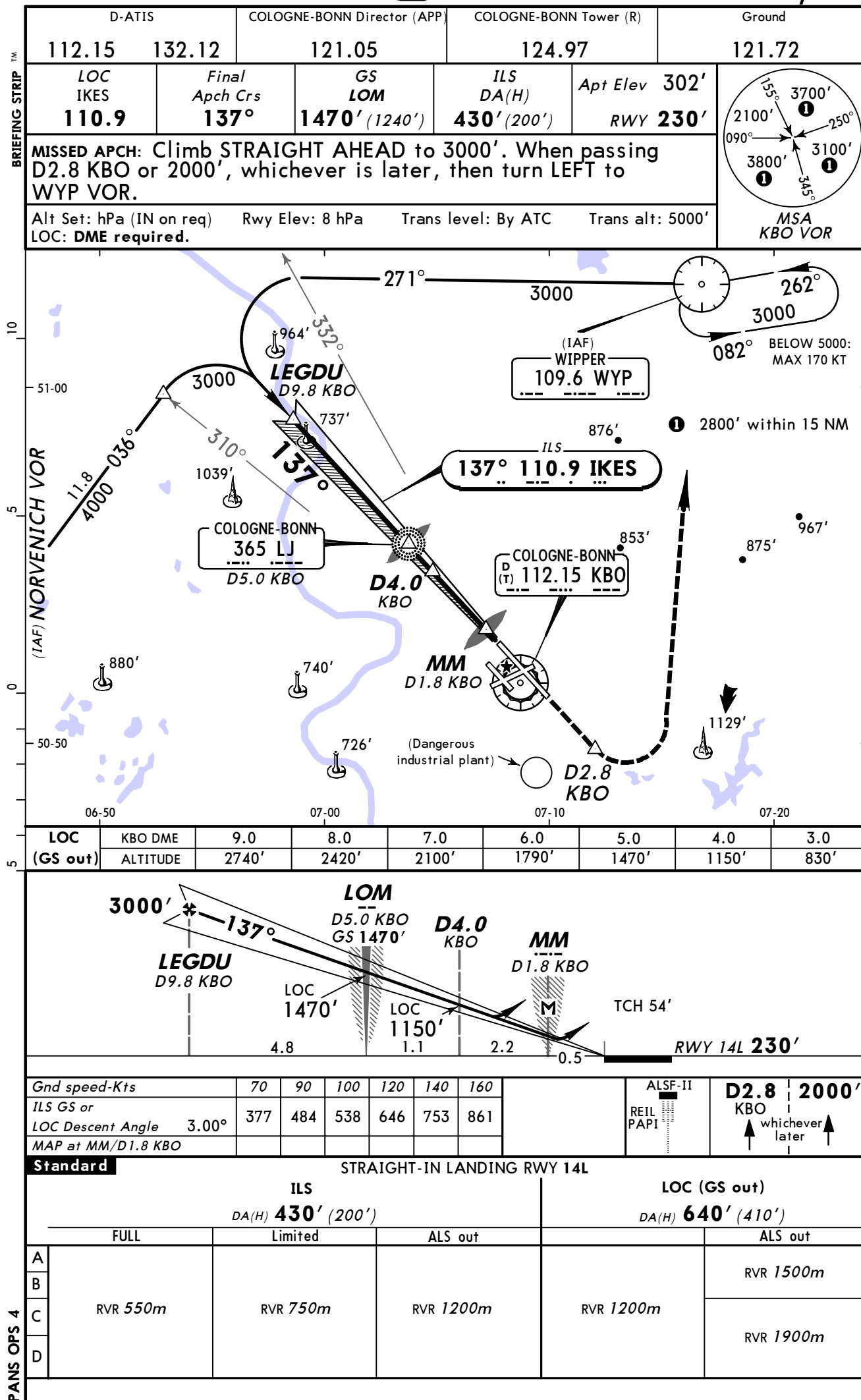
	LVP must be in force				RCLM (DAY only) or RL	NIL (DAY only)
	Approved Operators HIRL, CL & mult. RVR req	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL		
A					400m	500m
B	125m	150m	200m	250m		
C						
D	150m	200m	250m	300m		

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

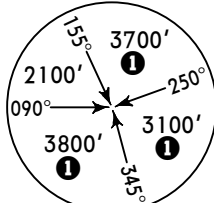


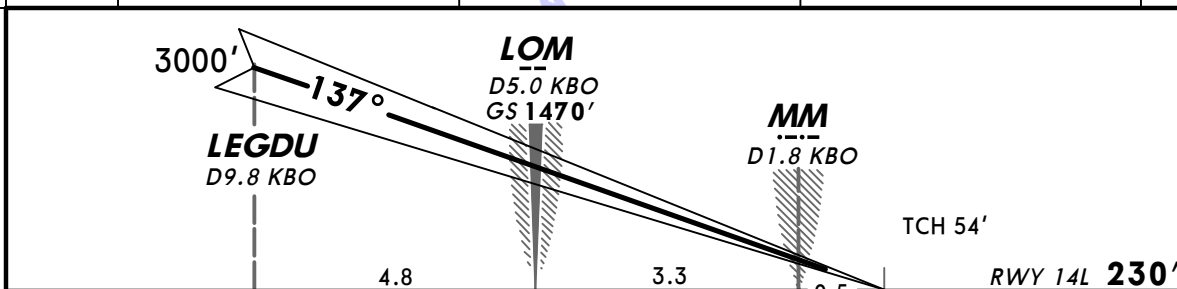
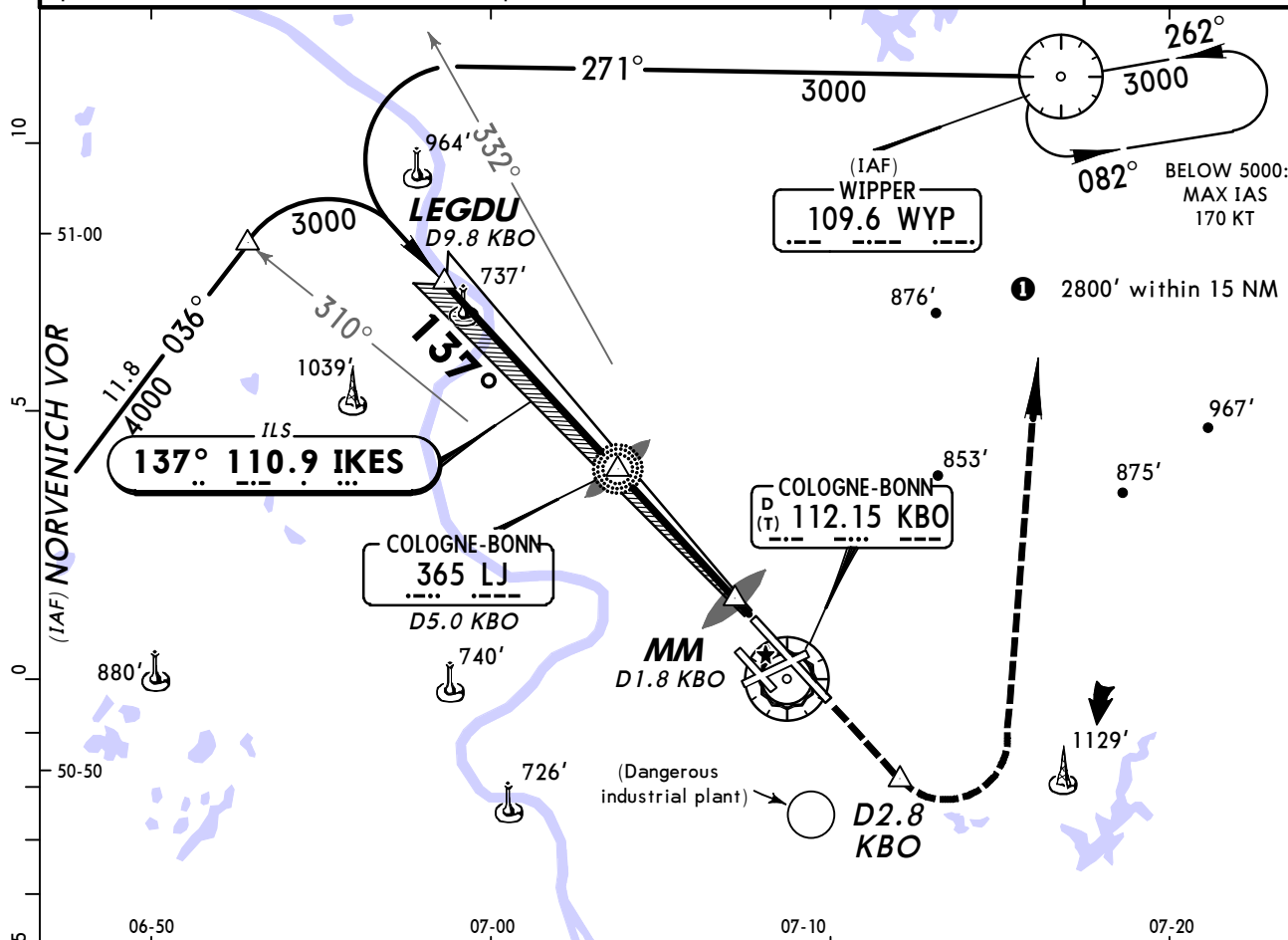


INS COORDINATES			
STAND No.	COORDINATES	STAND No.	COORDINATES
A1	N50 52.5 E007 07.4	V10 thru V12	N50 52.4 E007 07.5
A2 thru A4	N50 52.5 E007 07.3	V13, V14	N50 52.3 E007 07.4
A5, A6	N50 52.5 E007 07.2	V20, V21	N50 52.4 E007 07.5
A7, A8	N50 52.6 E007 07.2	V22	N50 52.3 E007 07.5
A9 thru A12	N50 52.6 E007 07.1	V23	N50 52.3 E007 07.4
A13	N50 52.6 E007 07.2	V30, V31	N50 52.3 E007 07.6
A20	N50 52.5 E007 07.4	V32 thru V39	N50 52.3 E007 07.5
A30, A40	N50 52.5 E007 07.3	V40, V41, V42	N50 52.3 E007 07.6
A50	N50 52.5 E007 07.2	V43 thru V45	N50 52.3 E007 07.5
B2 thru B4	N50 52.6 E007 07.4	V50	N50 52.3 E007 07.7
B5, B6	N50 52.6 E007 07.3	V51	N50 52.3 E007 07.6
B7, B7R, B8	N50 52.7 E007 07.4	V52 thru V59	N50 52.2 E007 07.6
C1 thru C3	N50 52.8 E007 07.4	V101 thru V121	N50 52.4 E007 07.5
C4	N50 52.8 E007 07.5	V131	N50 52.3 E007 07.4
C5, C7, C7L	N50 52.7 E007 07.5	V211, V221	N50 52.3 E007 07.5
C10	N50 52.8 E007 07.3	V231	N50 52.3 E007 07.4
C11, C11z, C12	N50 52.8 E007 07.4	V310 thru V330	N50 52.3 E007 07.5
D0 thru D2R	N50 52.8 E007 07.3	V401 thru V430	N50 52.3 E007 07.6
D3 thru D6L	N50 52.9 E007 07.2	V440	N50 52.3 E007 07.5
D6R thru D8	N50 52.9 E007 07.1	V510	N50 52.3 E007 07.6
D9	N50 52.9 E007 07.0	V530, V550	N50 52.2 E007 07.6
D10 thru D12	N50 53.0 E007 07.0	W10 thru W12	N50 52.2 E007 07.7
D20	N50 53.0 E007 07.1	W13	N50 52.1 E007 07.7
D21 thru D23	N50 53.0 E007 07.2	W20, W21	N50 52.2 E007 07.8
D24 thru D26	N50 53.0 E007 07.3	W22	N50 52.1 E007 07.8
D27	N50 53.0 E007 07.4	W23	N50 52.1 E007 07.7
D91	N50 52.9 E007 07.1	W30, W40	N50 52.1 E007 07.8
D92, D93	N50 53.0 E007 07.1	W50, W60	N50 52.1 E007 07.9
D103 thru D121	N50 53.0 E007 07.0	W70	N50 52.0 E007 07.9
D201	N50 53.0 E007 07.2	W80 thru W100	N50 52.0 E007 08.0
D213	N50 53.0 E007 07.1	W110, W120	N50 52.0 E007 08.1
D221 thru D243	N50 53.0 E007 07.2		
D253, D261, D262	N50 53.0 E007 07.3		
D271, D272	N50 52.9 E007 07.4		
E12 thru E16	N50 52.6 E007 07.6		
E18 thru E26	N50 52.5 E007 07.7		
E28, E30	N50 52.5 E007 07.8		
E32, E34	N50 52.4 E007 07.8		
E121 thru E123	N50 52.6 E007 07.6		
E302	N50 52.5 E007 07.8		
F2 thru F5	N50 52.4 E007 07.9		
F6	N50 52.3 E007 07.9		
F7 thru F11	N50 52.3 E007 08.0		
F12	N50 52.3 E007 08.1		
F14, F16	N50 52.2 E007 08.2		
F18 thru F20	N50 52.1 E007 08.3		
F22	N50 52.1 E007 08.4		
F24	N50 52.1 E007 08.3		



BRIEFING STRIP™

D-ATIS		COLOGNE-BONN Director (APP)		COLOGNE-BONN Tower (R)		Ground				
112.15		132.12		121.05		124.97		121.72		
LOC IKES 110.9		Final Apch Crs 137°		GS LOM 1470' (1240')		CAT II & IIIA ILS Refer to Minimums		Apt Elev 302' RWY 230'		
MISSED APCH: Climb STRAIGHT AHEAD to 3000'. When passing D2.8 KBO or 2000', whichever is later, then turn LEFT to WYP VOR.										
Alt Set: hPa (IN on req) Rwy Elev: 8 hPa Trans level: By ATC Trans alt: 5000' Special Aircrew & Acft Certification Required.									MSA KBO VOR	



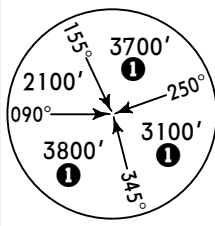
Gnd speed-Kts	70	90	100	120	140	160	ALSF-II		D2.8 2000'	
GS	3.00°	377	484	538	646	753	861	REIL PAPI	↑ KBO ↑ whichever later ↑	↑

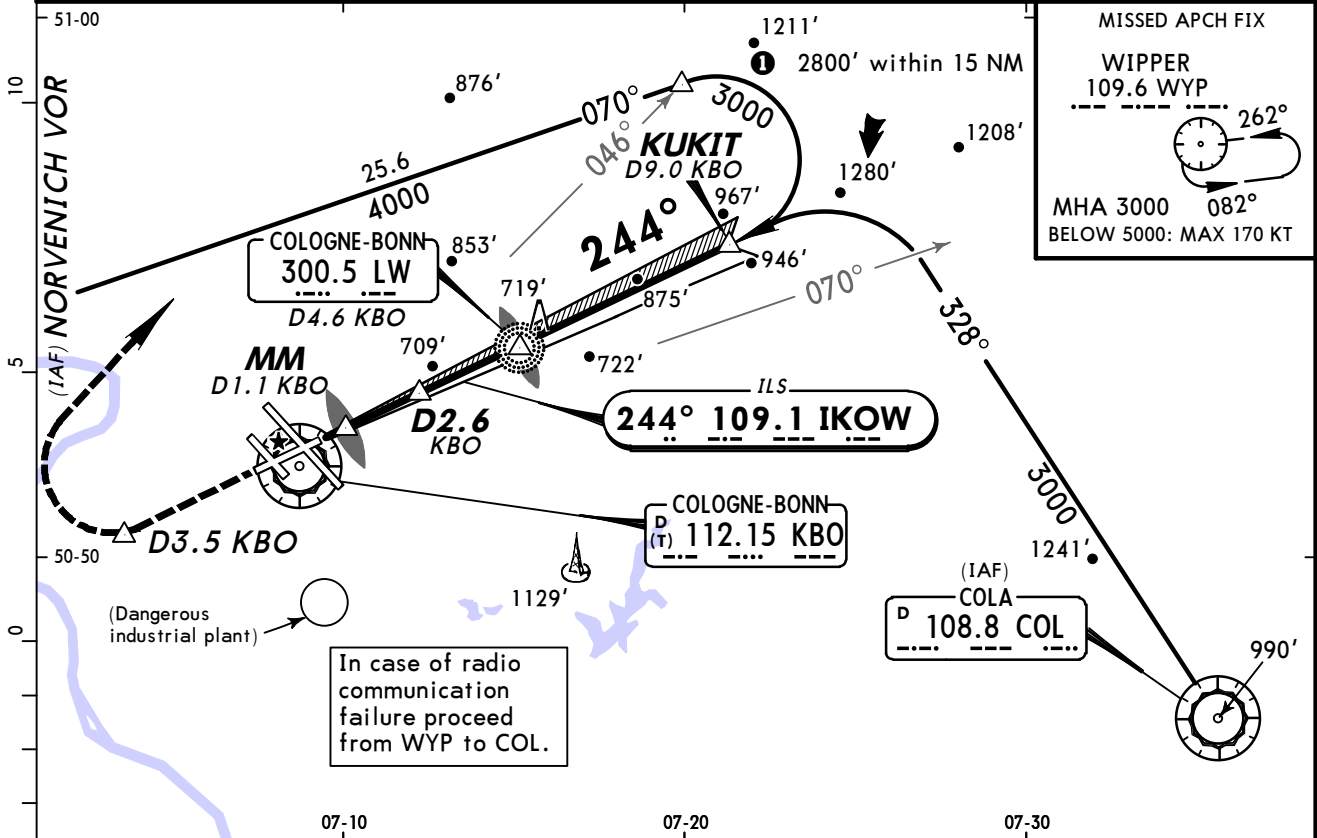
Standard		STRAIGHT-IN LANDING RWY 14L	
CAT IIIA ILS		CAT II ILS	
DH 50'		ABCD RA 106' DA(H) 330' (100')	
RVR 200m		RVR 300m 	

 Operators applying U.S. Ops Specs: Autoland or HUD required below RVR 350m.

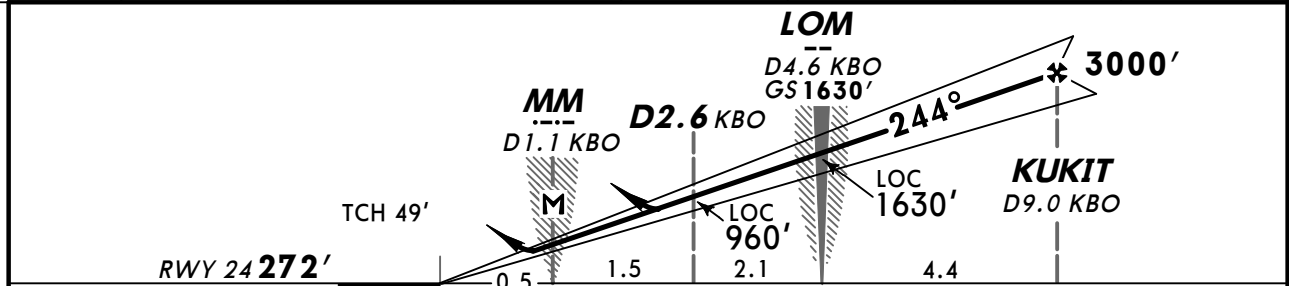
CHANGES: Director frequency.

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D-ATIS		COLOGNE-BONN Director (APP)		COLOGNE-BONN Tower (R)		Ground
112.15	132.12	121.05		124.97		121.72
LOC IKOW 109.1	Final Aptch Crs 244°	GS LOM 1630' (1358')	ILS DA(H) Refer to Minimums	Apt Elev	302'	
						RWY 272'
MISSED APCH: Climb STRAIGHT AHEAD to 5000'. When passing D3.5 KBO or 2000', whichever is later, turn RIGHT to WYP VOR.						
Alt Set: hPa (IN on req) Rwy Elev: 10 hPa Trans level: By ATC Trans alt: 5000'						MSA KBO VOR
1. LOC: DME required. 2. LACFT: See ATC State pages.						



LOC	KBO DME	3.0	4.0	5.0	6.0	7.0	8.0
(GS out)	ALTITUDE	1090'	1410'	1730'	2050'	2360'	2680'

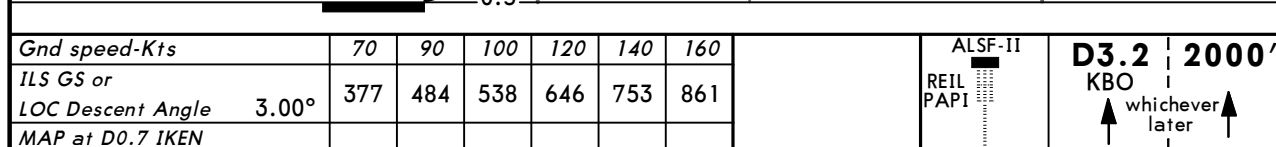
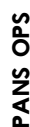


Gnd speed-Kts	70	90	100	120	140	160		
ILS GS or LOC Descent Angle 3.00°	377	484	538	646	753	861		
MAP at MM/D1.1 KBO								

Standard				STRAIGHT-IN LANDING RWY 24			
ILS 1				LOC (GS out)			
DA(H) 472' (200')				DA(H) 870' (598')			
FULL		Limited		ALS out		ALS out	
A	RVR 550m		RVR 750m		RVR 1200m		1500m 2
B							
C							
D							

1 LACFT: DA(H) 591'(319'), FULL: RVR 700m.

2 Flight visibility and ground visibility are required.



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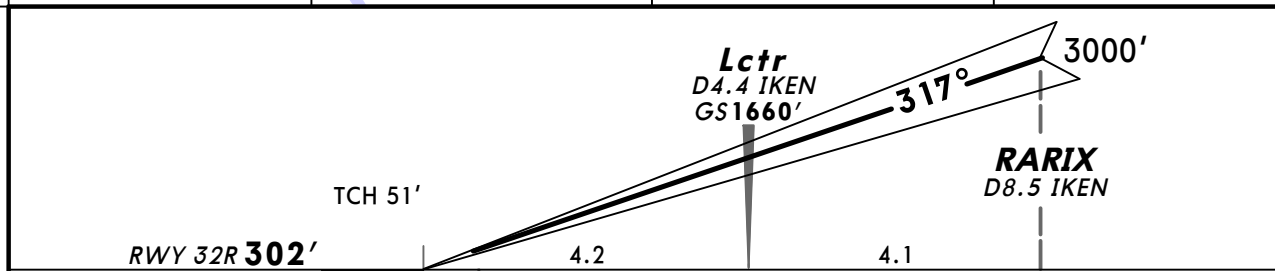
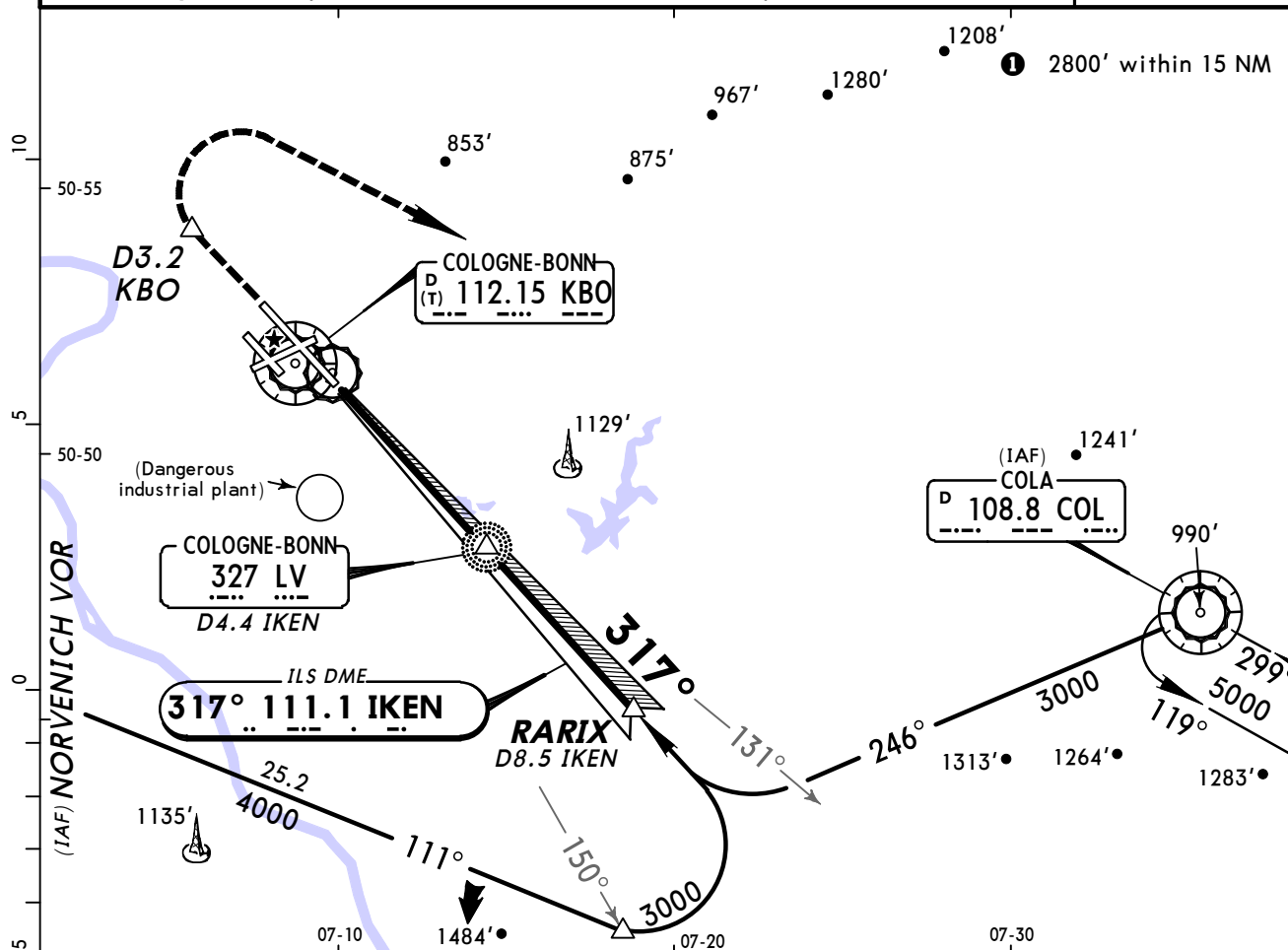
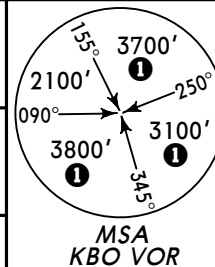
EDDK/CGN
COLOGNE-BONN

11 OCT 13
Eff 17 Oct

11-3A

COLOGNE-BONN, GERMANY
CAT II/III ILS Rwy 32R

D-ATIS		COLOGNE-BONN Director (APP)	COLOGNE-BONN Tower (R)	Ground
112.15	132.12	121.05	124.97	121.72
LOC IKEN 111.1	Final Apch Crs 317°	GS LV Lctr 1660' (1358')	CAT II & IIIA ILS Refer to Minimums	Apt Elev 302' RWY 302'
MISSED APCH: Climb STRAIGHT AHEAD to 5000'. When passing D3.2 KBO or 2000', whichever is later, turn RIGHT to COL VOR.				
Alt Set: hPa (IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'				
1. DME required. 2. Special Aircrew & Acft Certification Required.				



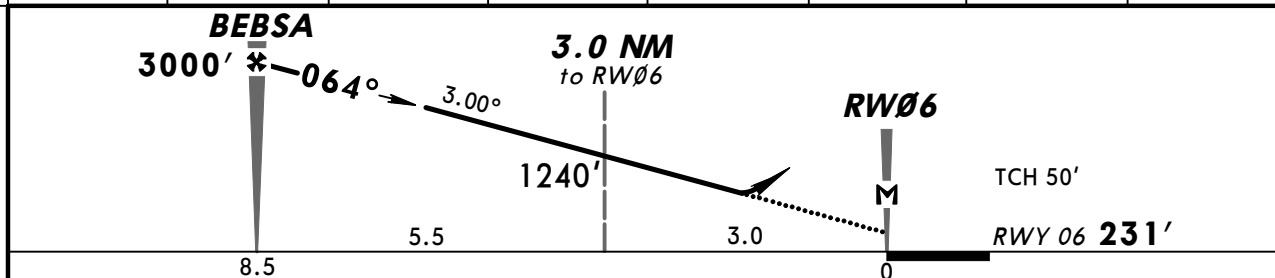
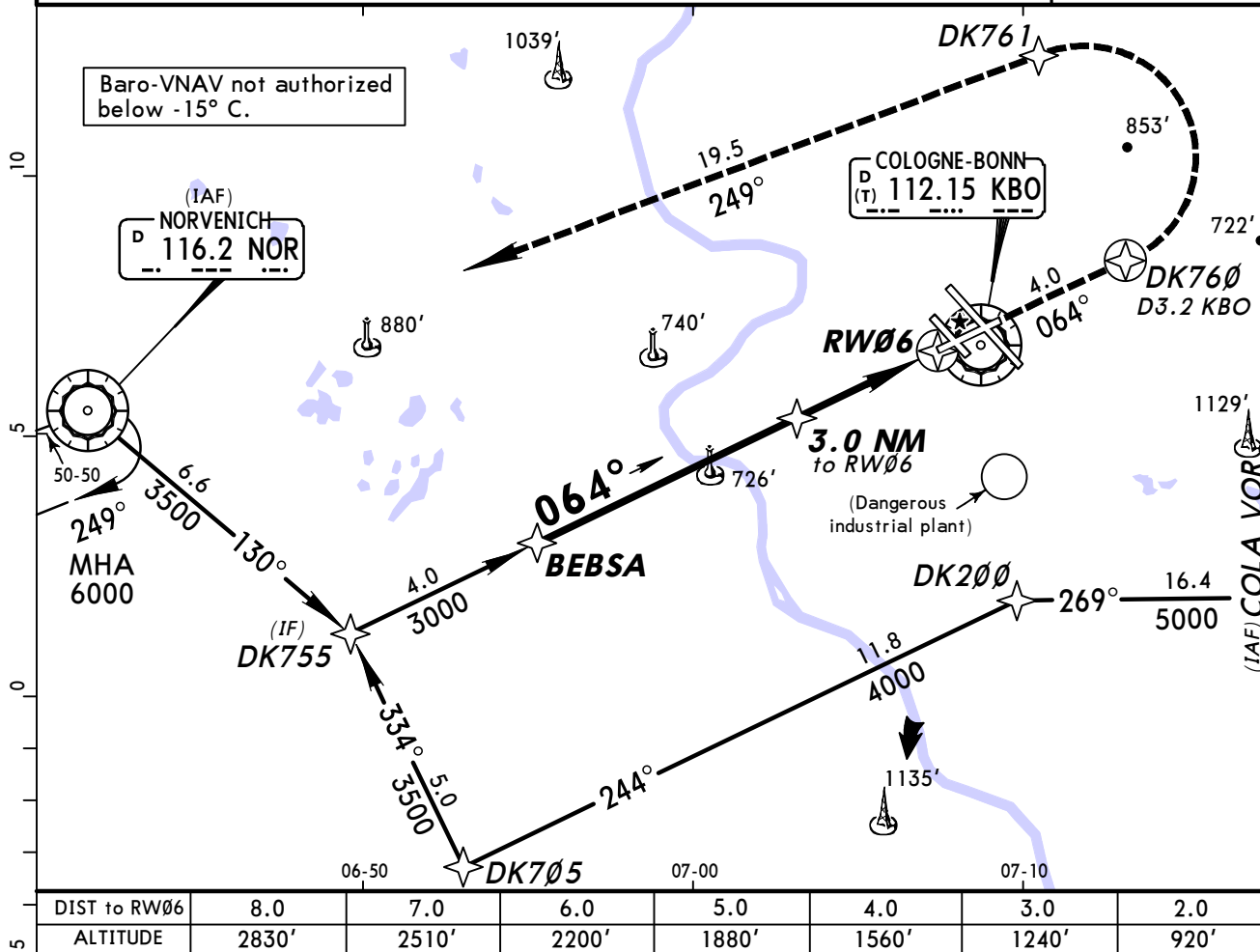
Gnd speed-Kts	70	90	100	120	140	160	ALSF-II		D3.2 2000'	
GS	3.00°	377	484	538	646	753	REIL	PAPI	↑	↑
									↑	↑

Standard		STRAIGHT-IN LANDING RWY 32R	
CAT IIIA ILS		CAT II ILS	
DH 50'		RA 89' DA(H) 402' (100')	
RVR 200m		RVR 300m	

Operators applying U.S. Ops Specs: Autoland or HUD required below RVR 350m.

BRIEFING STRIP™

D-ATIS 112.15 132.12		COLOGNE-BONN Director (APP) 121.05		COLOGNE-BONN Tower (R) 124.97		Ground 121.72
RNAV	Final Apch Crs 064°	Minimum Alt BEBSA 3000' (2769')	LNAV/VNAV DA(H) 690' (459')		Apt Elev 302' RWY 231'	3800' MSA ARP
MISSED APCH: Climb on 064° to 6000'. When passing DK760 or 2000', whichever is later, turn LEFT via DK761 onto 249° to NOR VOR. NON-RNAV: Climb STRAIGHT AHEAD to 6000'. When passing D3.2 KBO or 2000', whichever is later, turn LEFT to NOR VOR.						
Alt Set: hPa (IN on req) Rwy Elev: 8 hPa Trans level: By ATC Trans alt: 5000'						

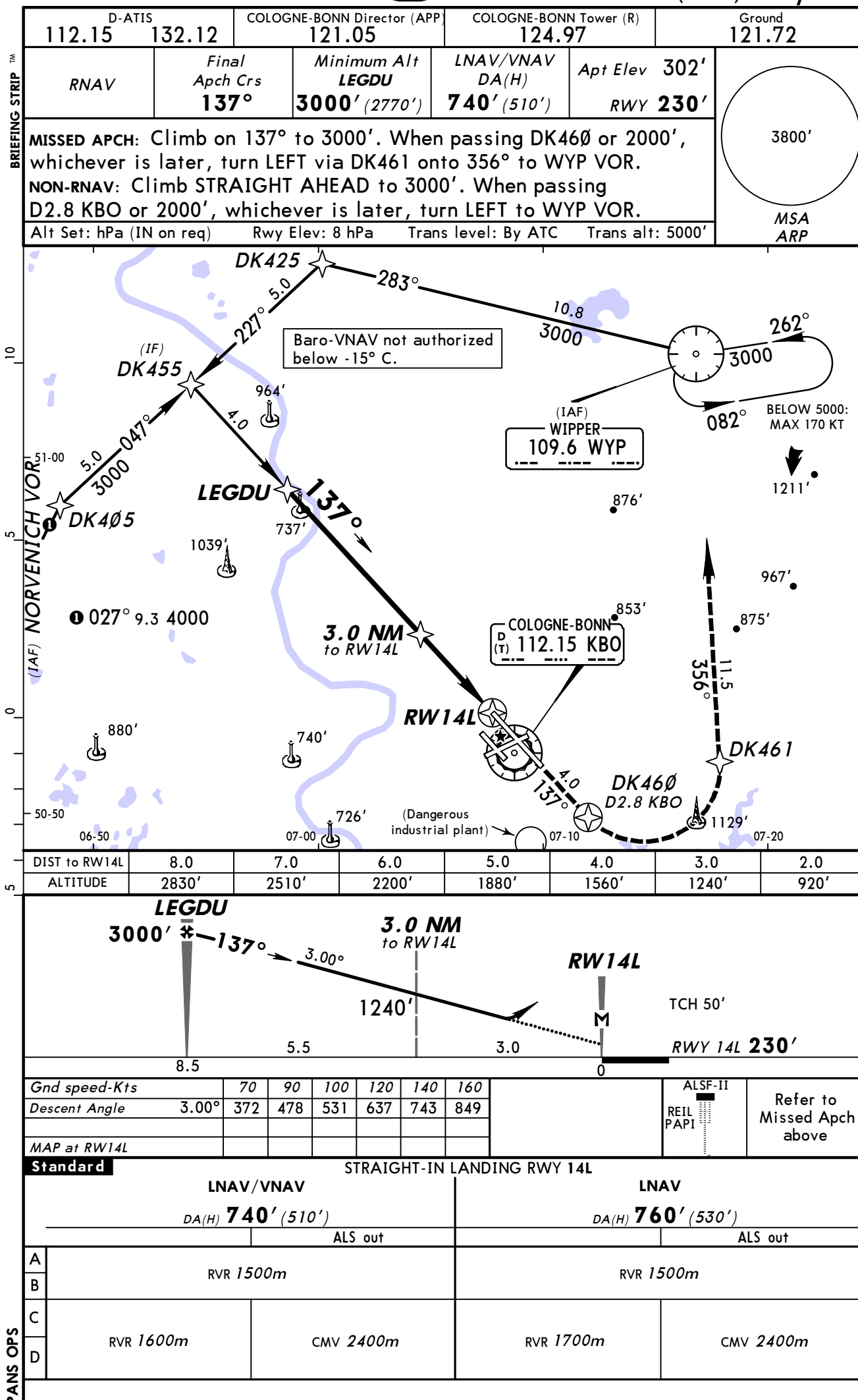


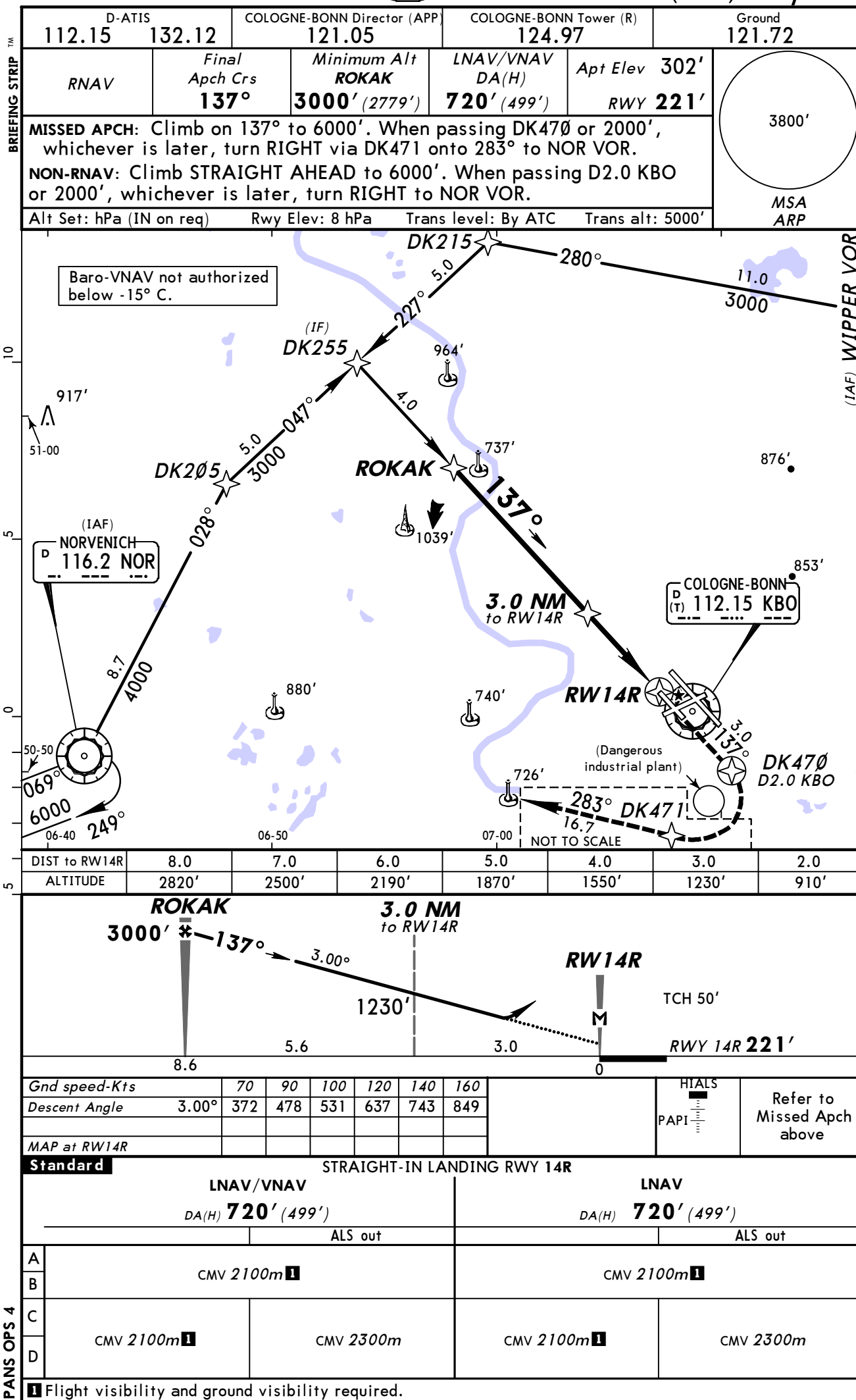
Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI Refer to Missed Apch above
Descent Angle	3.00°	372	478	531	637	743	
MAP at RWY 06							

STRAIGHT-IN LANDING RWY 06			
LNAV/VNAV		LNAV	
DA(H) 690' (459')		DA(H) 690' (459')	
ALS out		ALS out	
1500m I		1500m I	
CMV 2100m		CMV 2100m	

I Flight visibility and ground visibility are required.

CHANGES: Minimums.





BRIEFING STRIP TM



Standard		STRAIGHT-IN LANDING RWY 24			
		LNAV/VNAV DA(H) 850' (578')		LNAV DA(H) 870' (598')	
		ALS out		ALS out	
A	RVR 1500m			VIS 1500m 1	
B					
C	RVR 1900m	CMV 2400m	2000m	2400m	
D					

CHANGES: None.

D-ATIS

112.15

132.12

COLOGNE-BONN Director (APP)

121.05

COLOGNE-BONN Tower (R)

124.97

Ground

121.72

RNAV

Final
Apch Crs
317°

Minimum Alt
LIRMU
3000' (2741')

LNAV/VNAV
DA(H)
770' (511')

Apt Elev 302'
RWY 259'

MISSED APCH: Climb on 317° to 6000'. When passing DK670 or 2000', whichever is later, turn LEFT onto 254° to NOR VOR.
NON-RNAV: Climb STRAIGHT AHEAD to 6000'. When passing D2.7 KBO or 2000', whichever is later, turn LEFT to NOR VOR.

Alt Set: hPa (IN on req)

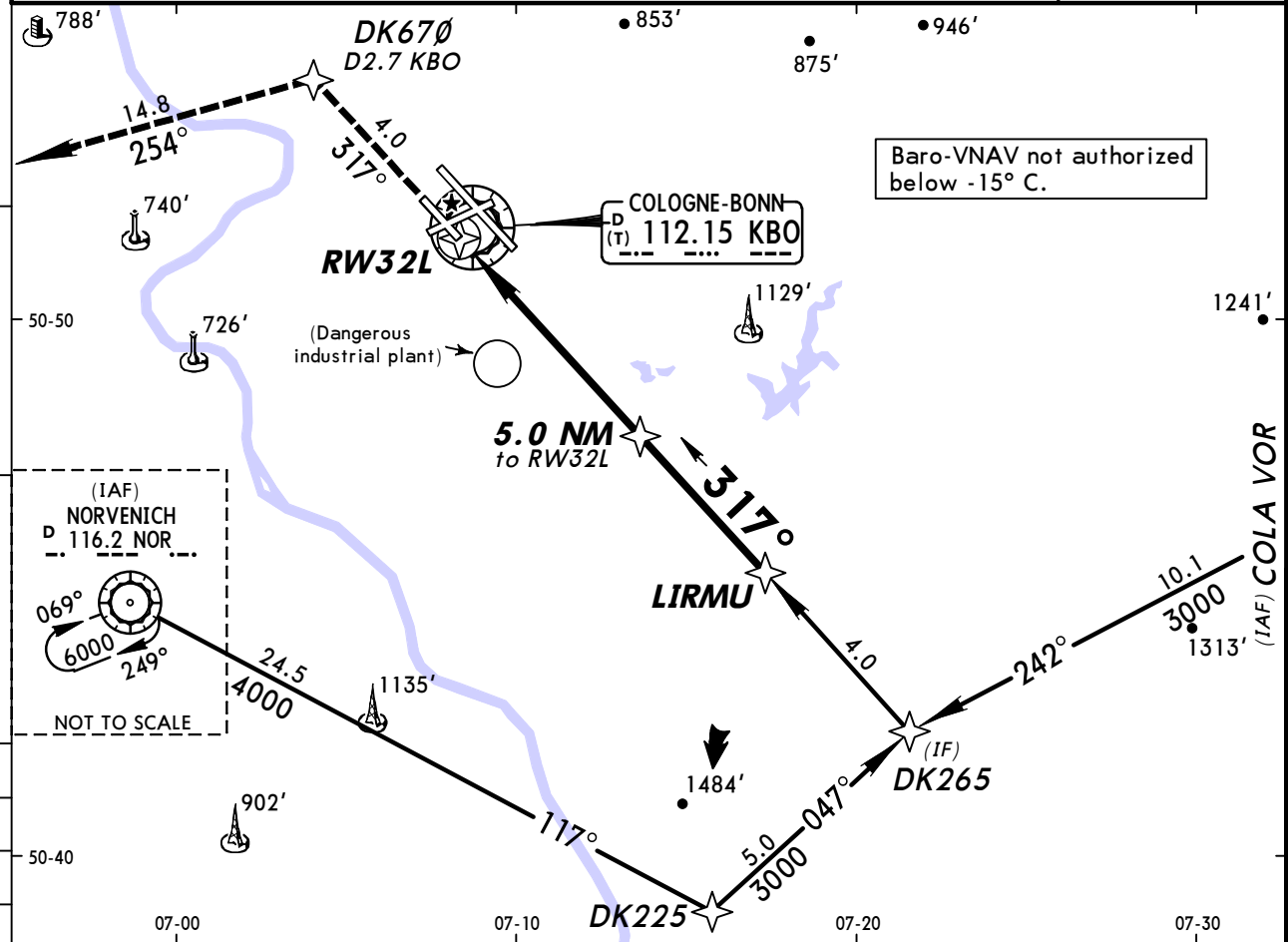
Rwy Elev: 9 hPa

Trans level: By ATC

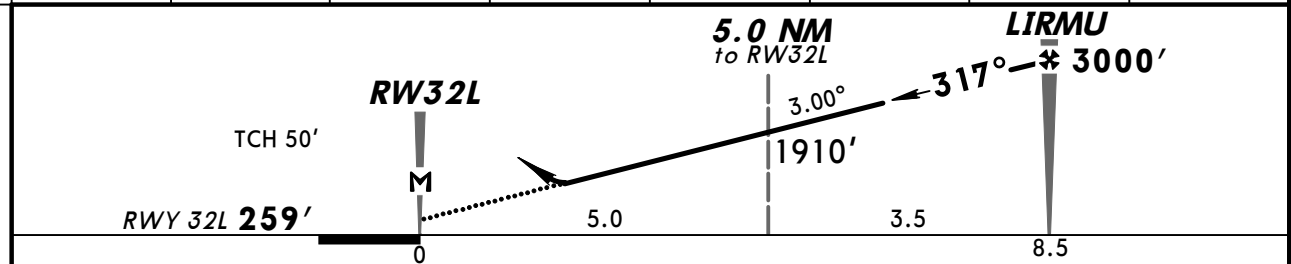
Trans alt: 5000'

3800'

MSA ARP



DIST to RW32L	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALTITUDE	950'	1270'	1590'	1910'	2220'	2540'	2860'



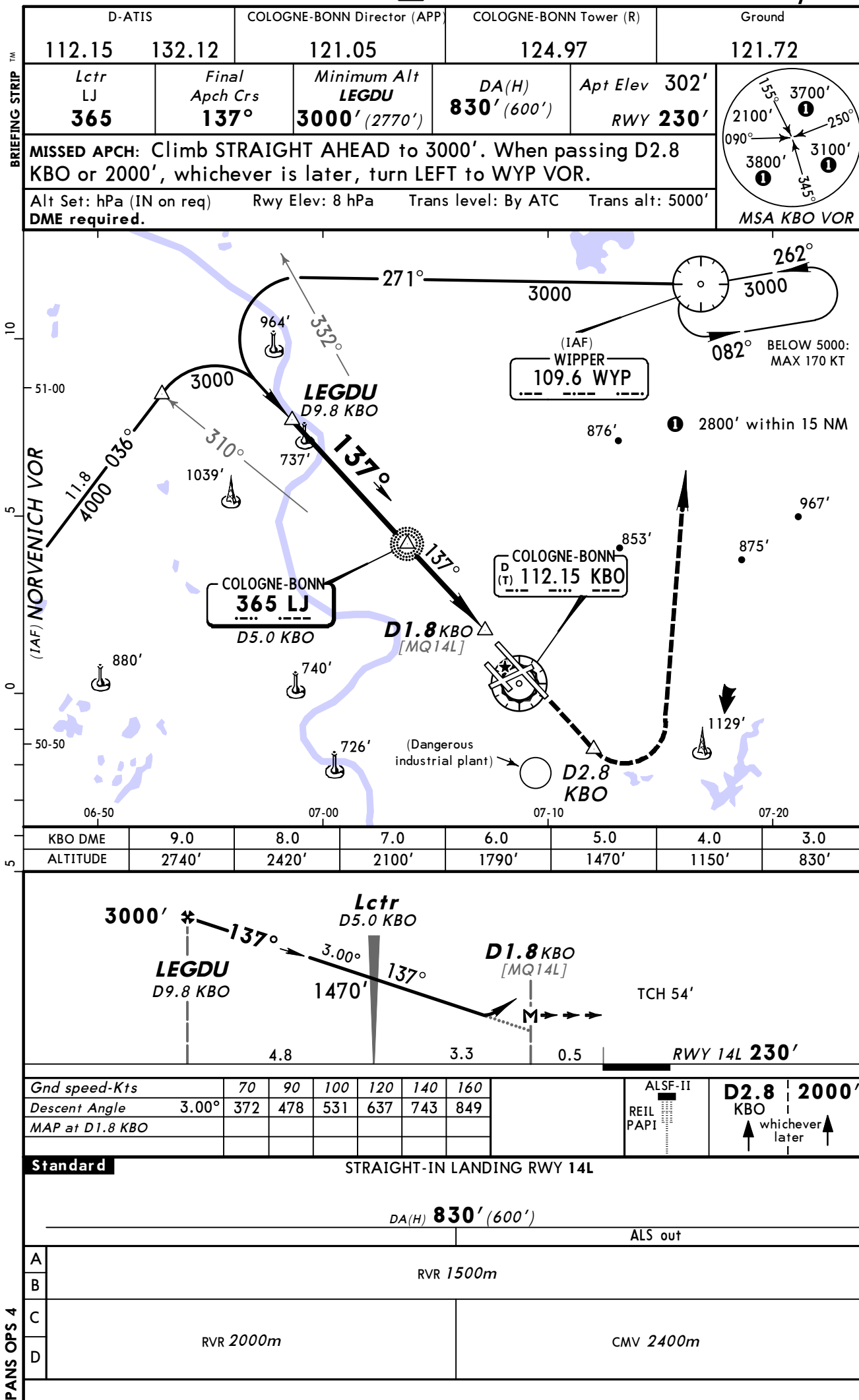
Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	Refer to Missed Apch above
Descent Angle	3.00°	372	478	531	637	743		
MAP at RW32L								

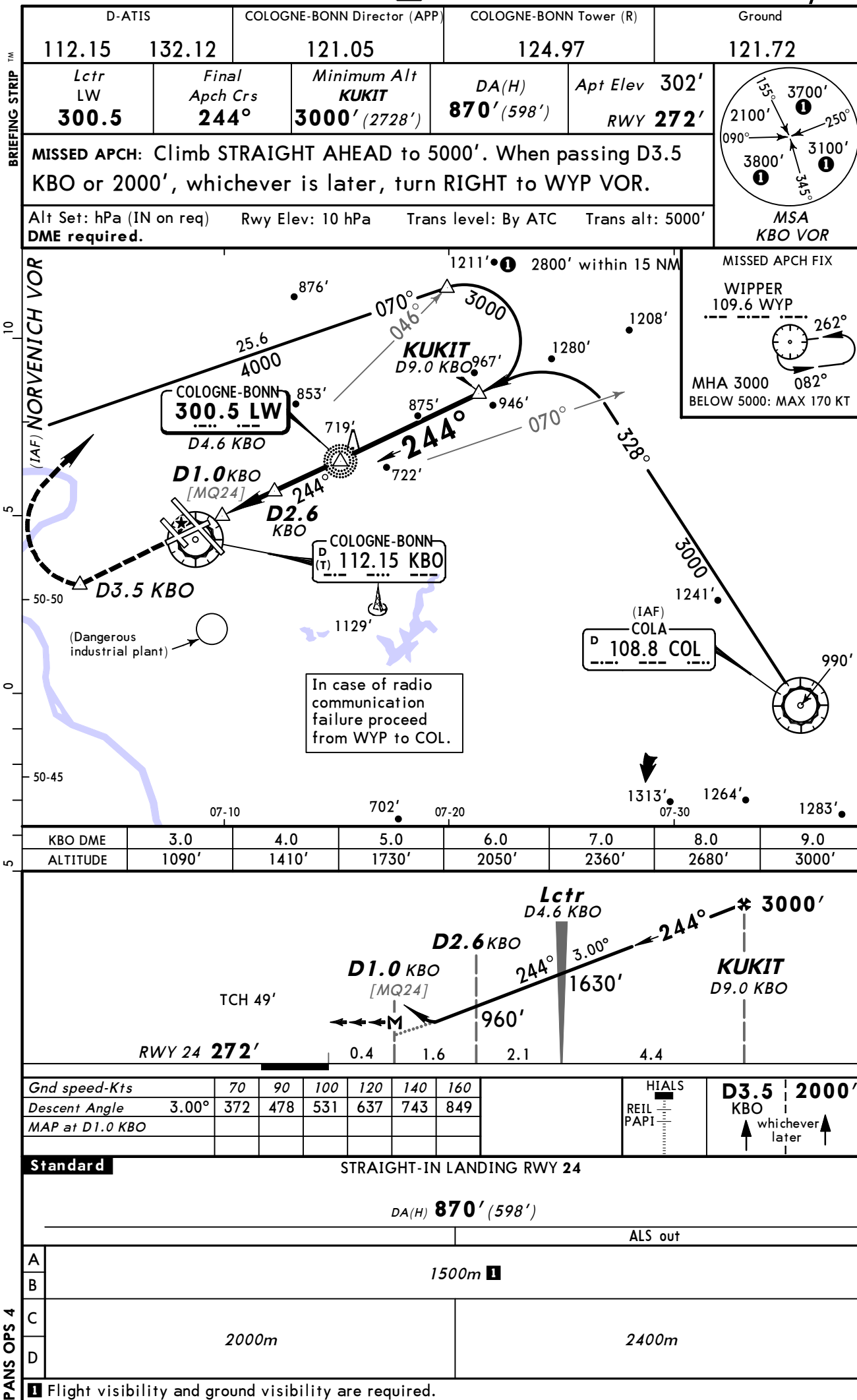
Standard		STRAIGHT-IN LANDING RWY 32L			
		LNAV/VNAV		LNAV	
		DA(H) 770' (511')		DA(H) 780' (521')	
		ALS out		ALS out	
A					
B	2100m I		2100m I		
C					
D	2100m I	CMV 2400m	2100m I	CMV 2400m	
I Flight visibility and ground visibility are required.					

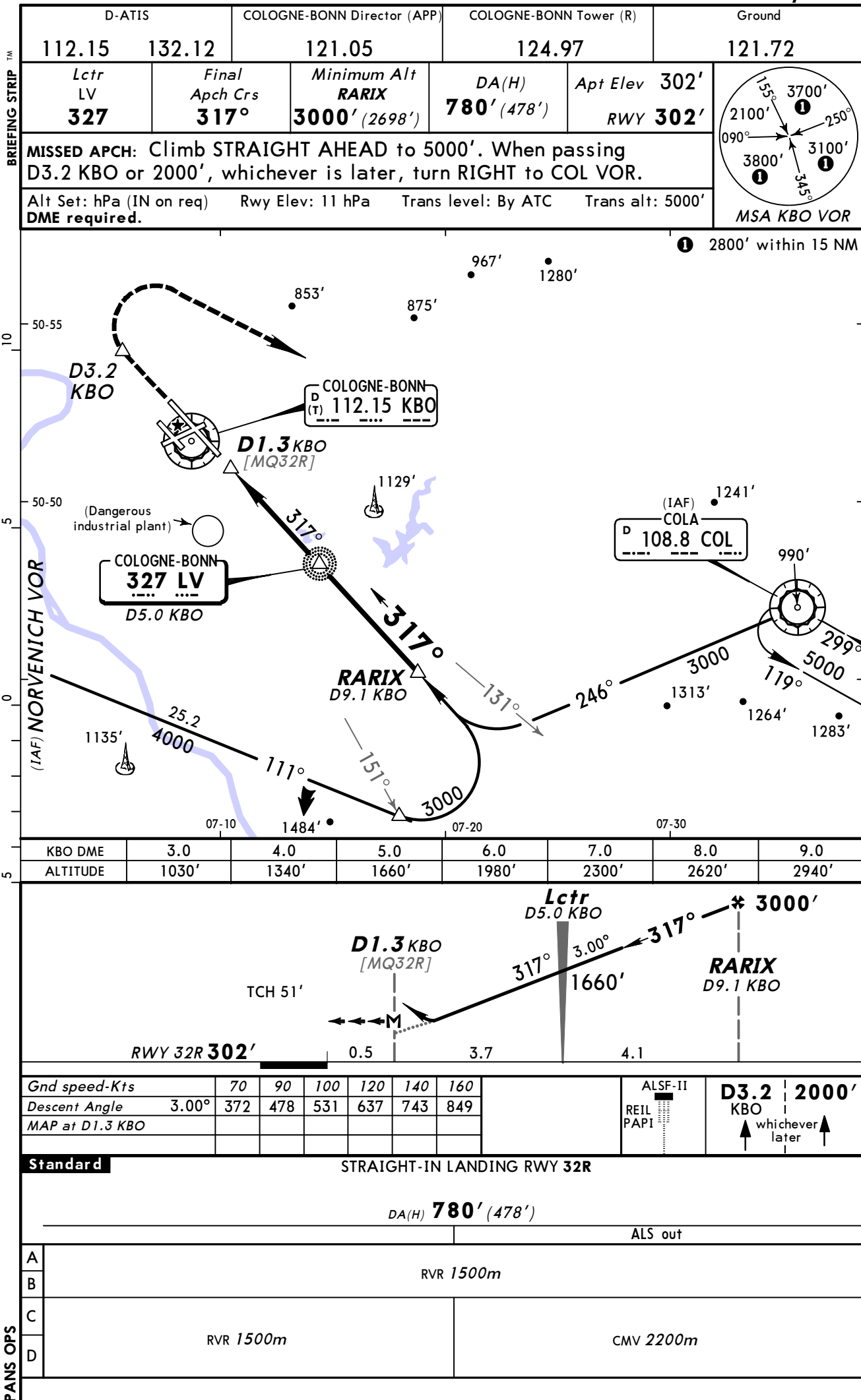
BRIEFING STRIP™

5

PANS OPS







<i>Gnd speed-Kts</i>	70	90	100	120	140	160	Lighting- Refer to Airport Chart	3000' ↑
<i>Descent Angle</i> 2.81°	348	447	497	596	695	794		
<i>MAP at THR</i>								

Standard		STRAIGHT-IN LANDING											
SRE 06		SRE 14L		SRE 14R		SRE 24		SRE 32L		SRE 32R			
MDA(H)		MDA(H)		MDA(H)		MDA(H)		MDA(H)		MDA(H)			
980' (749')		830' (600')		950' (729')		1130' (858')		970' (711')		980' (678')			
ALS out		ALS out		ALS out		ALS out		ALS out		ALS out			
A	CMV	CMV	CMV	CMV	CMV	CMV	3500m	4200m	CMV	CMV	CMV	CMV	
B	2900m	3700m	2200m	2900m	3200m	3600m			2800m	3500m	2600m	3300m	
C	CMV	CMV	CMV	CMV	CMV	CMV	3700m	4400m	CMV	CMV	CMV	CMV	
D	3100m	3900m	2400m	3100m	3400m	3800m			3000m	3700m	2800m	3500m	

COLOGNE-BONN, (COLOGNE-BONN - EDDK)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport EDDK