

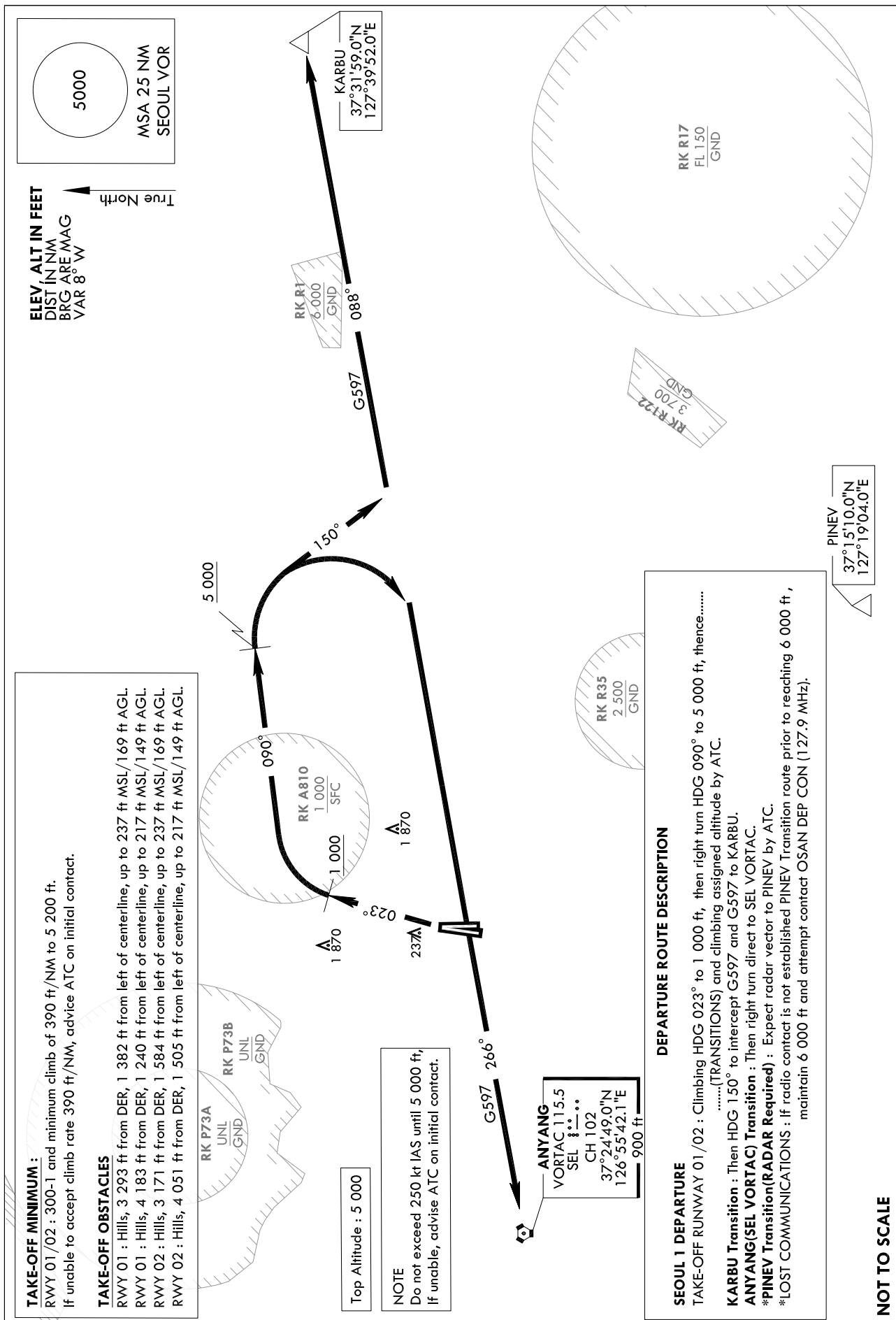
STANDARD DEPARTURE
CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2 234.5 236.6

SEOUL/Seoul (RKSM)
RWY 01/02
SEOUL 1

Note : Departure under U.S. TERPS.



Change : Information of fix name(RICOE → PINEV).

INTENTIONALLY

LEFT

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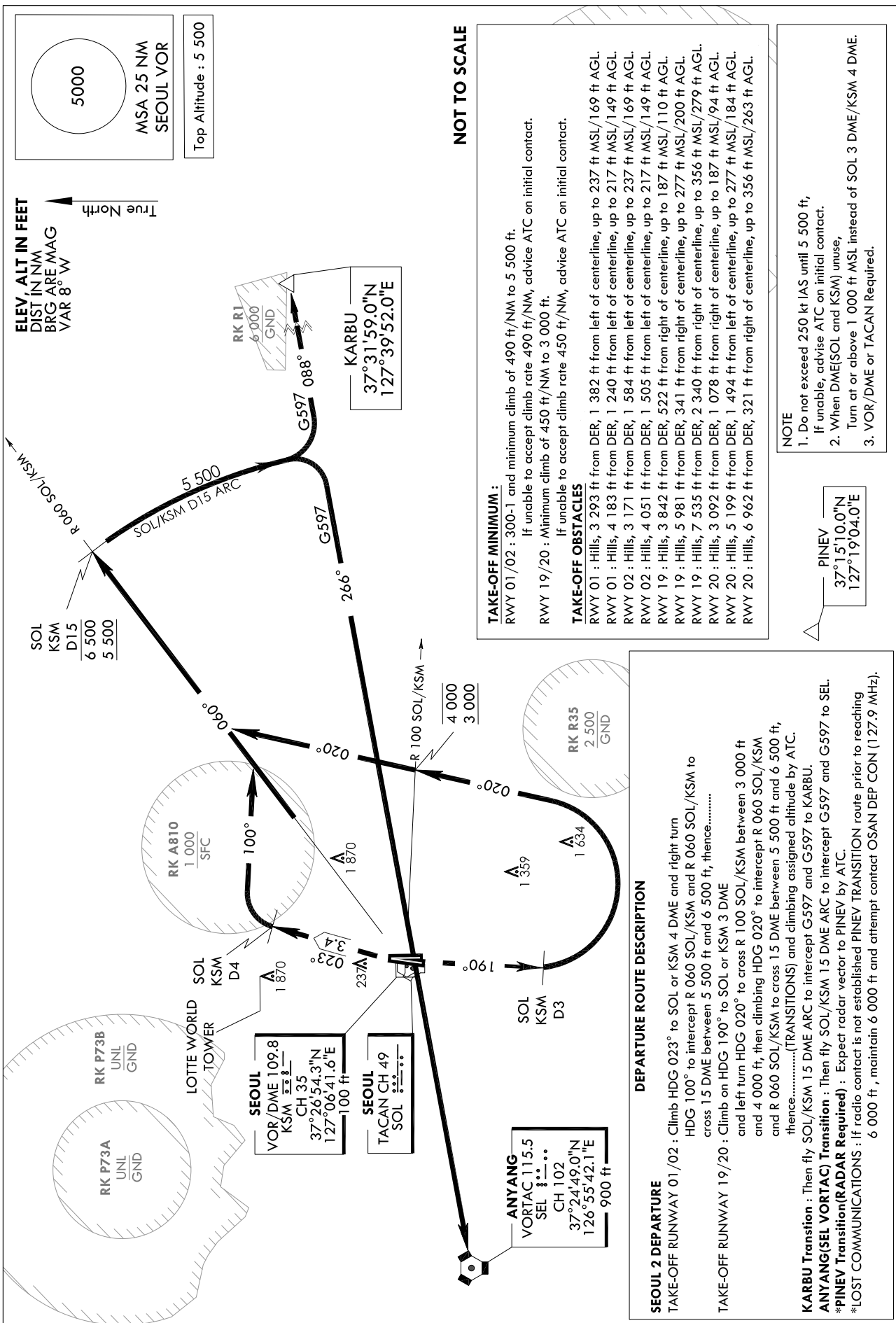
STANDARD DEPARTURE
CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2 234.5 236.6

SEOUL/Seoul (RKSM)
RWY 01/02, RWY 19/20
SEOUL 2

Note : Departure under U.S. TERPS.



Change : Information of fix name(RICOE → PINEV).

INTENTIONALLY

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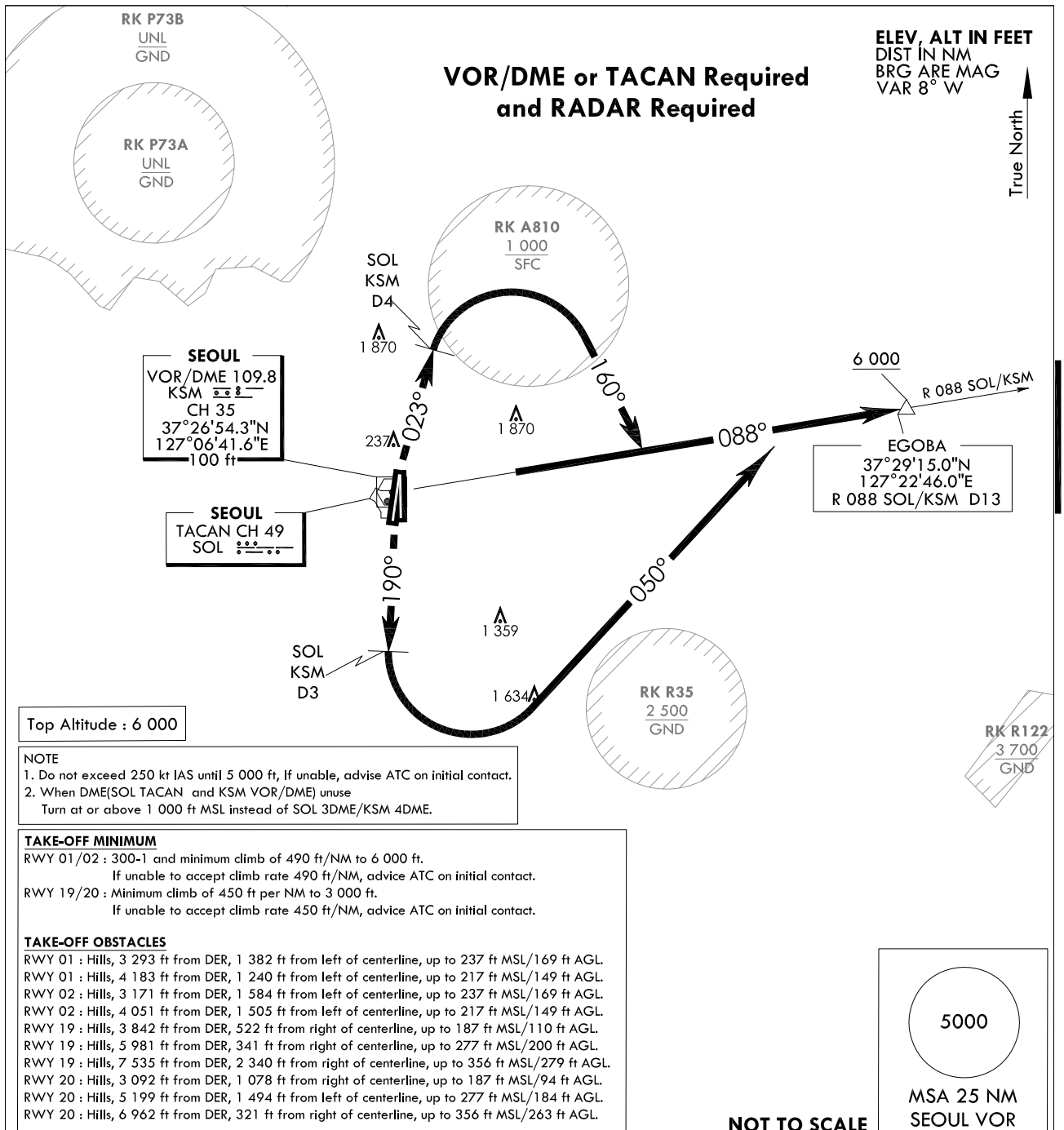
**STANDARD DEPARTURE
CHART - INSTRUMENT(SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2 234.5 236.6

SEOUL/Seoul (RKSM)
RWY 01/02, RWY 19/20
EGOBA 5

Note : Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

EGOBA 5 DEPARTURE

TAKE-OFF RUNWAY 01/02 : Climb HDG 023° to SOL or KSM 4DME
and climbing right turn HDG 160° to intercept R 088 SOL/KSM and
R 088 SOL/KSM to cross EGOBA at or above 6 000 ft.

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to SOL or KSM 3DME
and climbing left turn HDG 050° to intercept R 088 SOL/KSM and
R 088 SOL/KSM to cross EGOBA at or above 6 000 ft.

INTENTIONALLY

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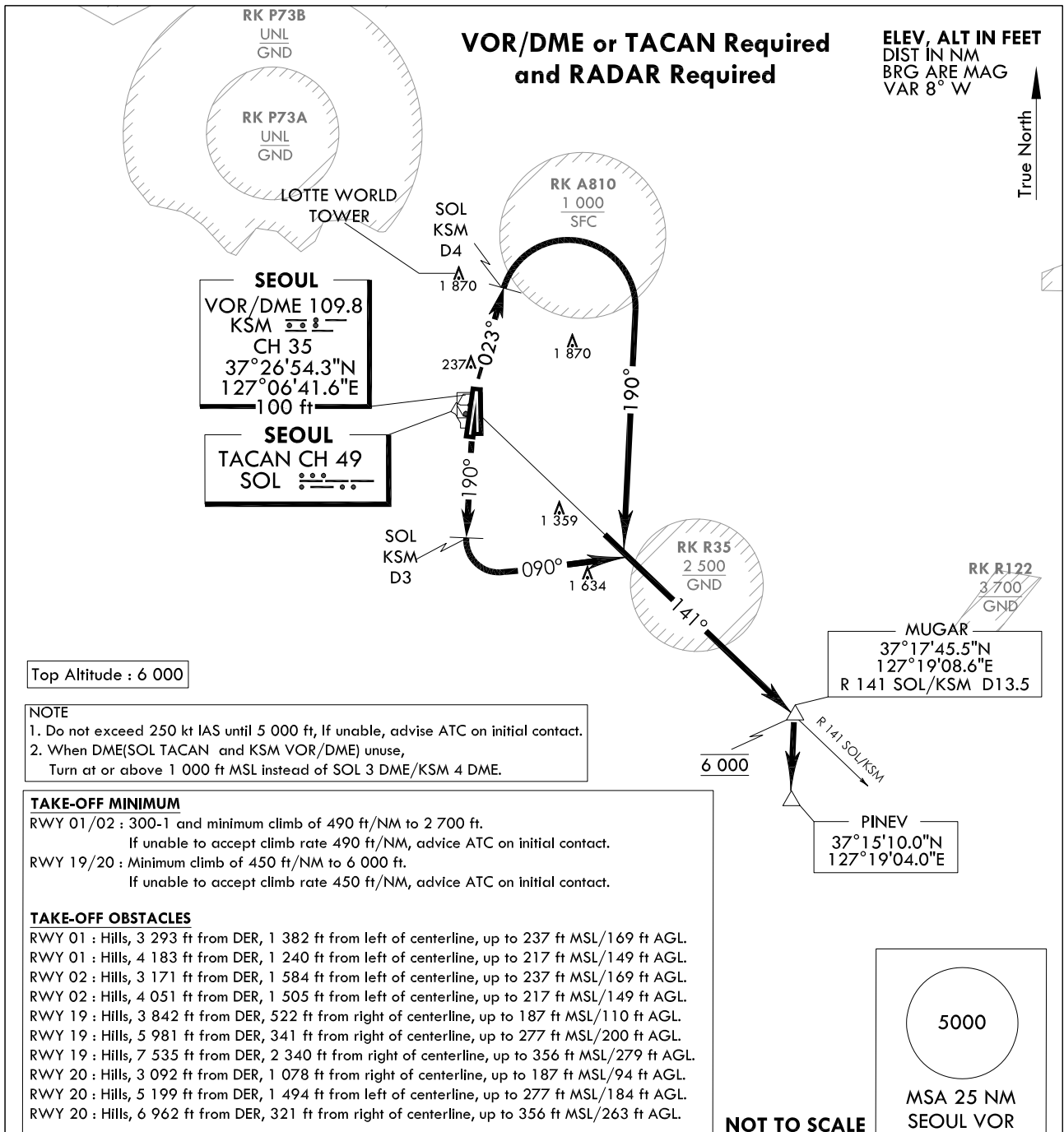
**STANDARD DEPARTURE
CHART - INSTRUMENT(SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2 234.5 236.6

SEOUL/Seoul (RKSM)
RWY 01/02, RWY 19/20
PINEV 5

Note : Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

PINEV 5 DEPARTURE

TAKE-OFF RUNWAY 01/02 : Climb HDG 023° to SOL or KSM D4
and climbing right turn HDG 190° to intercept R 141 SOL/KSM and
R 141 SOL/KSM to cross MUGAR at 6 000 ft,
then expect radar vector to PINEV or filed En-route fix by ATC.

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to SOL or KSM D3
and climbing left turn HDG 090° to intercept R 141 SOL/KSM and
R 141 SOL/KSM to cross MUGAR at 6 000 ft,
then expect radar vector to PINEV or filed En-route fix by ATC.

Change : Information of fix and procedure names(RICOE → PINEV, NOROO → MUGAR).

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**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2
236.6 234.5

SEOUL/Seoul (RKSM)
RWY 01/02
RNAV MEESA 1

Note : Departure under U.S TERPS.

TAKE-OFF OBSTACLE :

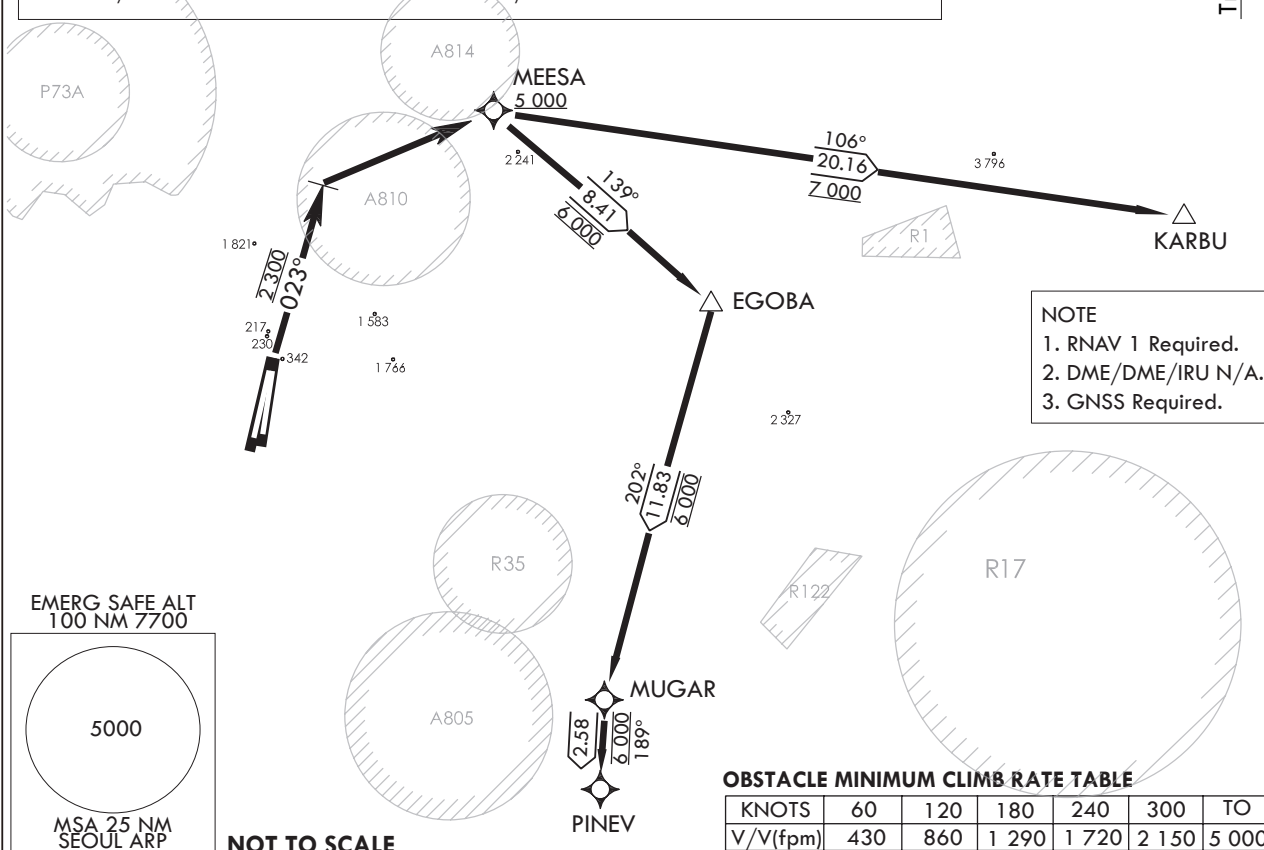
RWY 01 : Hills, 3 321 ft from DER, 1 411 ft from left of centerline,
up to 230 ft AMSL/161 ft AGL.
RWY 01 : Terrain, 1 964 ft from right of RWY 01 centerline, up to 342 ft AMSL/273 ft AGL.
RWY 02 : Terrain, 2 181 ft from right of RWY 02 centerline, up to 342 ft AMSL/250 ft AGL.

TAKE-OFF MINIMUM :

RWY 01/02 : 300-1 and minimum climb of 430 ft/NM to 5 000 ft.

ELEV, ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 8° W

True North



DEPARTURE PROCEDURE DESCRIPTION

RNAV MEESA 1 DEPARTURE

TAKE-OFF RUNWAY 01/02 : Climb on HDG 023° to 2 300 ft, then right turn direct MEESA,
cross MEESA at or above 5 000 ft, thence.....
.....(transition) maintain 6 000 ft, expect filed altitude 10 minutes after departure.

KARBU TRANSITION : Track 106° to KARBU and climb to assigned altitude.

EGOBA TRANSITION : Track 139° to EGOBA and climb to assigned altitude.

PINEV TRANSITION : Track 139° to EGOBA and Track 202° to MUGAR and Track 189° to PINEV
and climb to assigned altitude.

Change : Information of fix names(RICOE → PINEV, NOROO → MUGAR).

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV MEESA 1

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	VA	—	—	Heading 023°	—	—	@2 300	-250	—	—	RNAV1	
002	DF	MEESA	—	—	—	R	+5 000	-250	37°34'43.9"N 127°14'44.8"E	—	RNAV1	

Feeder Routes

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	DF	MEESA	—	—	—	—	+5 000	—	37°34'43.9"N 127°14'44.8"E	—	RNAV1	
002	TF	KARBU	—	106°/98°	20.16	R	+7 000	—	37°31'59.0"N 127°39'52.0"E	—	—	

Feeder Routes

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	DF	MEESA	—	—	—	—	+5 000	-250	37°34'43.9"N 127°14'44.8"E	—	RNAV1	
002	TF	EGOBA	—	139°/131°	8.41	R	@6 000	—	37°29'15.0"N 127°22'46.0"E	—	RNAV1	
003	TF	MUGAR	—	202°/194°	11.83	R	@6 000	—	37°17'45.5"N 127°19'08.6"E	—	RNAV1	
004	TF	PINEV	—	189°/181°	2.58	L	@6 000	—	37°15'10.0"N 127°19'04.0"E	—	RNAV1	

Change : Information of fix names(RICOE → PINEV, NOROO → MUGAR).

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2
236.6 234.5

SEOUL/Seoul (RKSM)
RWY 19/20
RNAV MUGAR 1

Note : Departure under U.S TERPS.

OBSTACLE MINIMUM CLIMB RATE TABLE

KNOTS	60	120	180	240	300	TO
V/V(fpm)	430	860	1 290	1 720	2 150	5 000

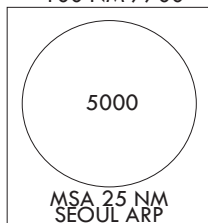
ELEV, ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 8° W

True North

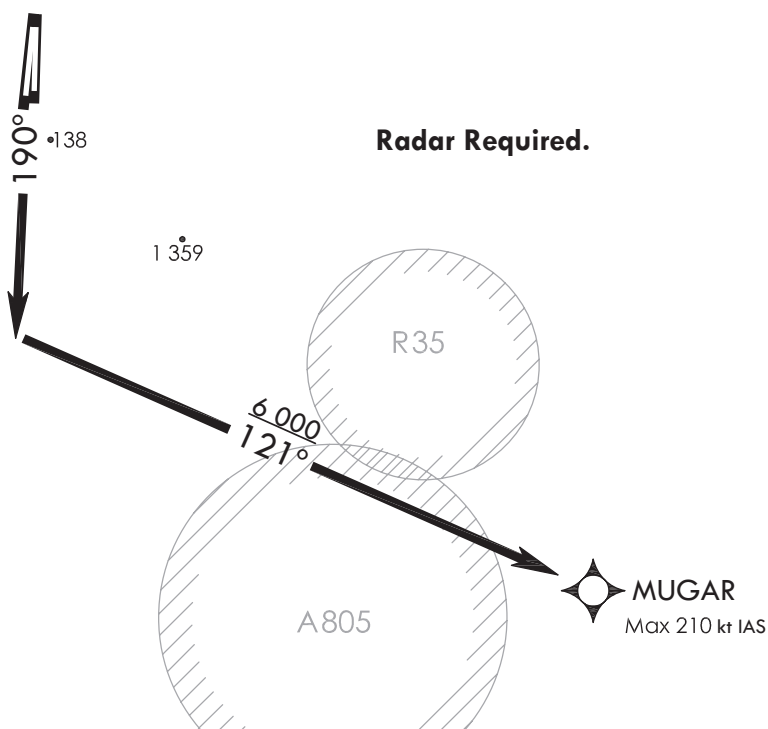
TAKE-OFF MINIMUM :

RWY 19/20 : Standard with minimum
climb of 500 ft/NM to 3 000 ft.

EMERG SAFE ALT
100 NM 7700



NOT TO SCALE



NOTE

1. RNAV 1 Required.
2. DME/DME/IRU N/A.
3. GNSS Required.
4. If unable to accept climb rate, advise ATC on initial contact.
5. Limit MUGAR to maximum 210 kt IAS, if unable advise ATC on initial contact.

DEPARTURE PROCEDURE DESCRIPTION

RNAV MUGAR 1 DEPARTURE

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to intercept course 121° to MUGAR and climb to 6 000 ft, hence climb on assigned heading for radar vector.

Change : Information of fix and procedure name(NOROO → MUGAR).

SEOUL/Seoul (RKSM)
RWY 19/20
RNAV MUGAR 1

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV MUGAR 1

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	VI	-	-	Heading 190°	-	-	-	-210	-	-	RNAV1	Bank angle 20°
002	CF	MUGAR	-	121°/113°	-	L	+6 000	-210	37°17'45.5"N 127°19'08.6"E	-	RNAV1	Bank angle 20°

Change : Information of fix and procedure name(NOROO → MUGAR).

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8
SEOUL TWR 126.2
236.6 234.5

SEOUL/Seoul (RKSM)
RWY 19/20
RNAV SONGTAN 1

Note : Departure under U.S TERPS.

OBSTACLE MINIMUM CLIMB RATE TABLE

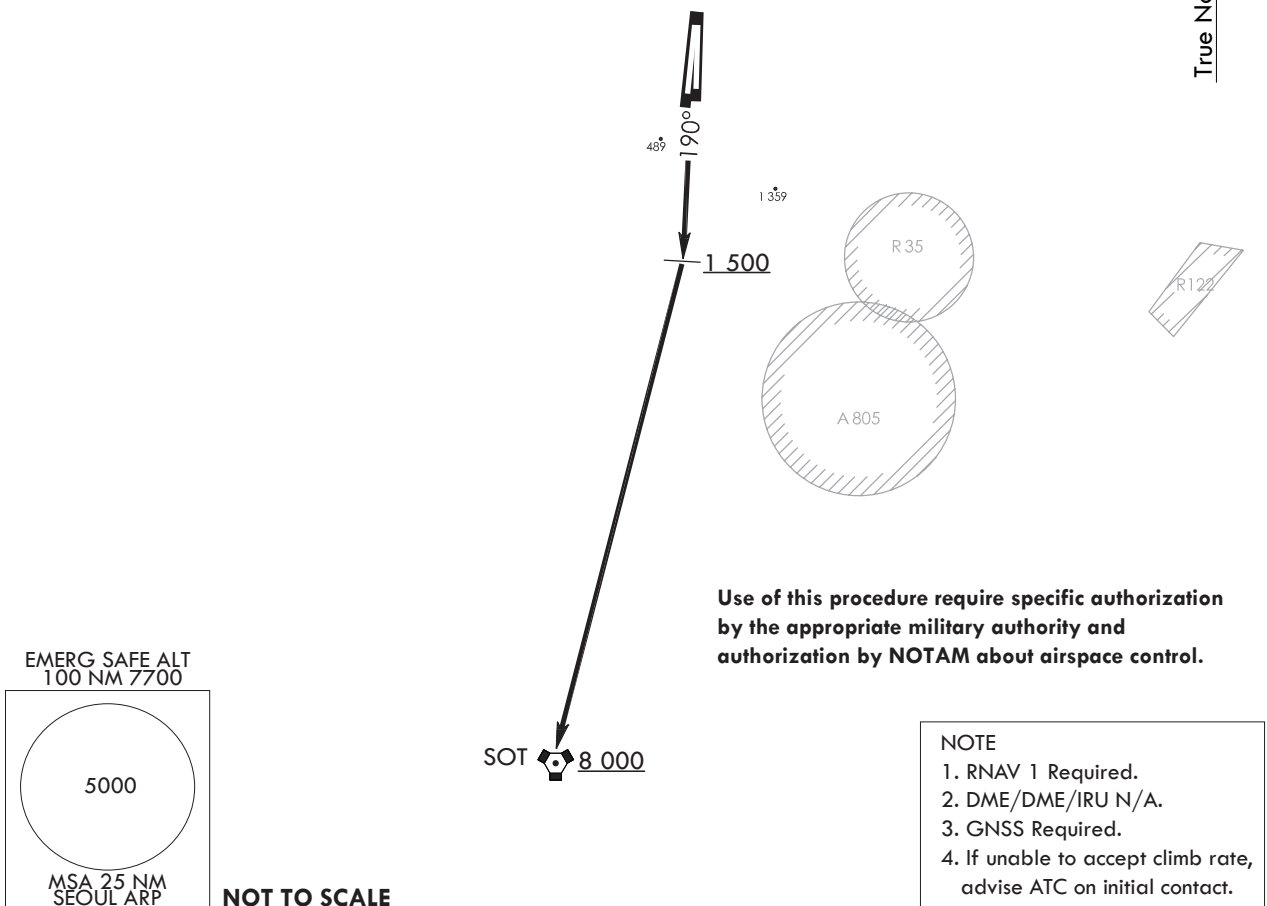
KNOTS	60	120	180	240	300	TO
V/V(fpm)	500	1 000	1 500	2 000	2 500	5 000

TAKE-OFF MINIMUM :

RWY 19/20 : 500-1¼ with minimum climb of 500 ft/NM to 5 000.

ELEV, ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 8°W

True North



DEPARTURE PROCEDURE DESCRIPTION

RNAV SONGTAN 1 DEPARTURE

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to 1 500 ft, then right turn direct SOT(SONGTAN VORTAC) and climb assigned altitude.

SEOUL/Seoul (RKSM)
RWY 19/20
RNAV SONGTAN 1

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV SONGTAN 1

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	VA	-	-	Heading 190°	-	-	+1 500	-	-	-	RNAV1	ICA
002	CF	SOT	-	-	-	R	+8 000	-	37°05'39.7"N 127°01'54.0"E	-	RNAV1	

Change : Amended coordinate format.

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

TRANSITION ALT 14 000
TRANSITION LVL FL 140

SEOUL	DEP	123.8	363.8
SEOUL	TWR	126.2	
		236.6	234.5

SEOUL/Seoul (RKSM)
RWY 19/20
RNAV YEOJU 1

Note : Departure under U.S TERPS.

OBSTACLE MINIMUM CLIMB RATE TABLE

KNOTS	60	120	180	240	300	TO
V/V(fpm)	500	1 000	1 500	2 000	2 500	5 000

TAKE-OFF MINIMUM :

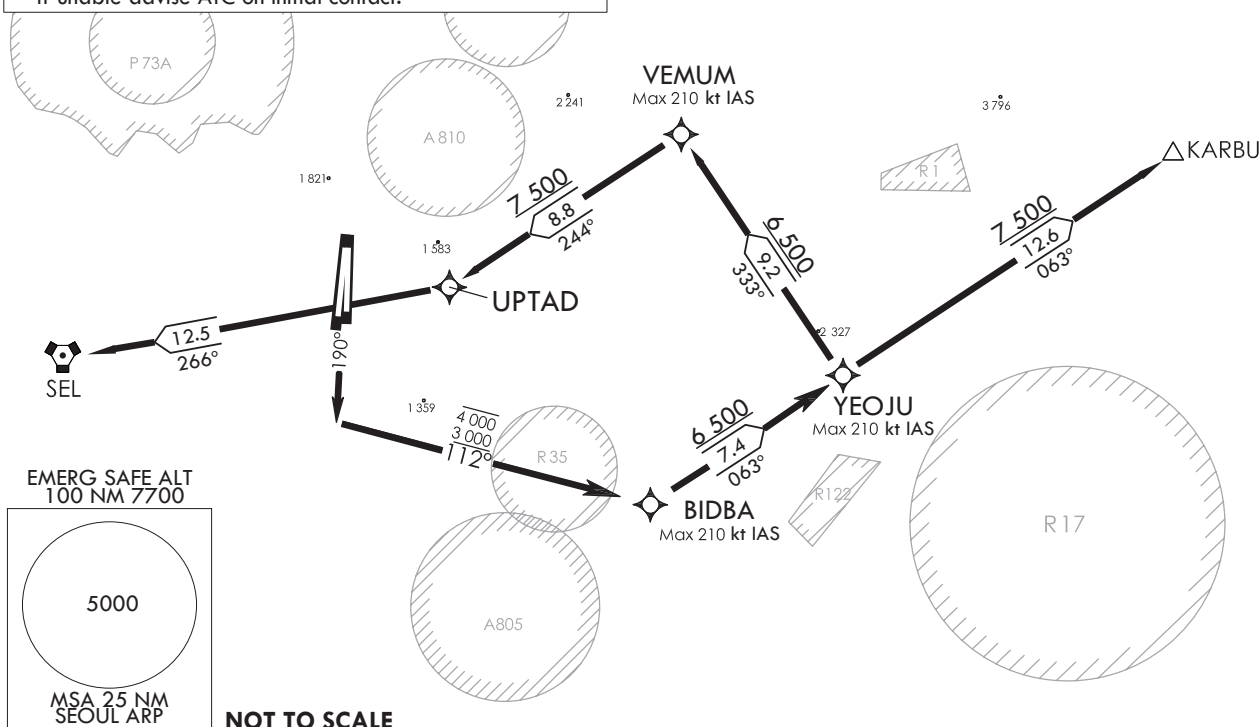
RWY 19/20 : Standard with minimum climb of 500 ft/NM to 4 000 ft.

NOTE

1. RNAV 1 Required.
2. DME/DME/IRU N/A.
3. GNSS Required.
4. If unable to accept climb rate, advise ATC on initial contact.
5. Limit BIDBA, YEOJU, VEMUM to maximum 210 kt IAS, if unable advise ATC on initial contact.

ELEV, ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 8° W

True North ↑



DEPARTURE PROCEDURE DESCRIPTION

RNAV YEOJU 1 DEPARTURE

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to intercept course 112° to BIDBA, and left turn, track 063° to YEOJU, THENCE....
.....(transition) maintain 6 500 ft, expect filed altitude 10 minutes after departure.

KARBU TRANSITION : Track 063° to KARBU and climb to assigned altitude.

ANYANG(SEL VORTAC) TRANSITION: Track 333° to VEMUM and left turn track 244° to UPTAD and right turn track 266° to ANYANG(SEL VORTAC) and climb to assigned altitude.

Change : Information of fix name(JINSU → UPTAD).

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV YEOJU 1

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	VI	-	-	HDG 190	-	-	-	-210	-	-	RNAV 1	Bank angle 20°
002	CF	BIDBA	-	112/104	-	L	-4 000 +3 000	-210	37°20'33.3"N 127°19'14.5"E	-	RNAV 1	Bank angle 20°
003	TF	YEOJU	-	063/055.1	7.37	-	+6 500	-210	37°24'46.4"N 127°26'49.9"E	-	RNAV 1	Bank angle 20°

Feeder Routes

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	TF	YEOJU	-	-	-	-	+6 500	-210	37°24'46.4"N 127°26'49.9"E	-	RNAV 1	Bank angle 20°
002	TF	VEMUM	-	333/325.2	9.23	L	+6 500	-210	37°32'21.3"N 127°20'12.4"E	-	RNAV 1	Bank angle 20°
003	TF	UPTAD	-	244/235.6	8.82	R	+7 500	-	37°27'21.3"N 127°11'04.2"E	-	RNAV 1	
004	TF	SEL	-	266/258.4	12.5	-	-	-	37°24'49.0"N 126°55'42.1"E	-	RNAV 1	ENROUTE

Feeder Routes

Serial Number	Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	TF	YEOJU	-	-	-	-	+6 500	-210	37°24'46.4"N 127°26'49.9"E	-	RNAV 1	
002	TF	KARBU	-	063/055.1	12.6	R	+7 500	-	37°31'59.0"N 127°39'52.0"E	-	RNAV 1	ENROUTE

Change : Information of fix name(JINSU → UPTAD).