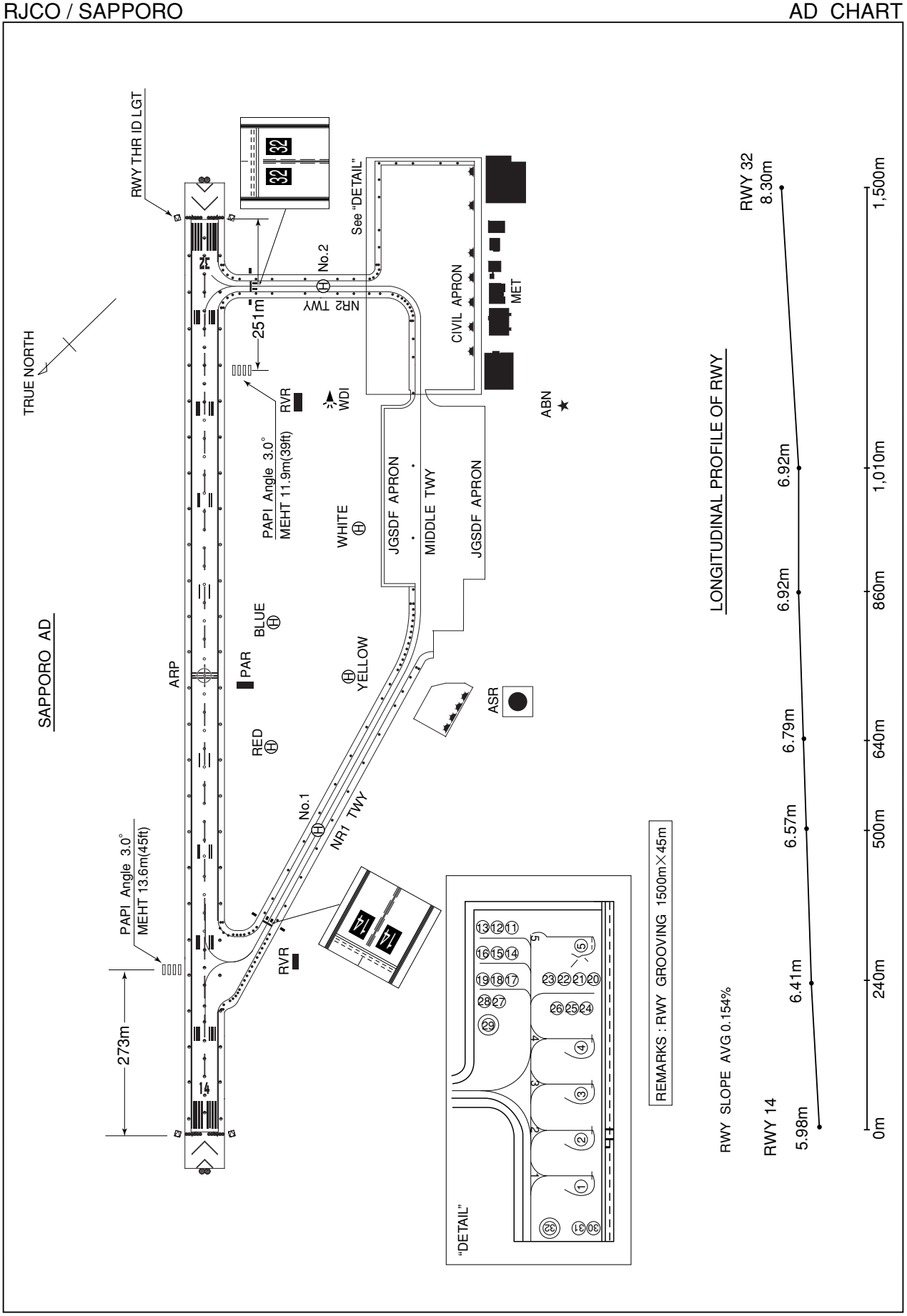
RJCO / SAPPORO AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO SID

KURIS THREE DEPARTURE

RWY 14: Turn left,....
RWY 32: Turn right,....
....Climb via HDG 057˚ to intercept and proceed via SPE R103 to KURIS.
Cross KURIS at or above 5000FT.

SAPPORO REVERSAL FOUR DEPARTURE

RWY 14: Turn left,....
RWY 32: ....
....Climb to SPE VOR/DME, via SPE R335, turn left to intercept and proceed via SPE R310 to SPE VOR/DME within SPE 15.0DME.
Cross SPE R335/6.0DME at or below 6000FT,
cross SPE R310/6.0DME at or above 10000FT.

SAPPORO THREE DEPARTURE

RWY 14: Turn left,....
RWY 32: ....
....Climb to SPE VOR/DME.

RUMOI TRANSITION

From over SPE VOR/DME, climb via SPE R040 to RUMOI.
Cross SPE R040/8.0DME at or above 4000FT,cross RUMOI at assigned altitude.

BEEBA TRANSITION

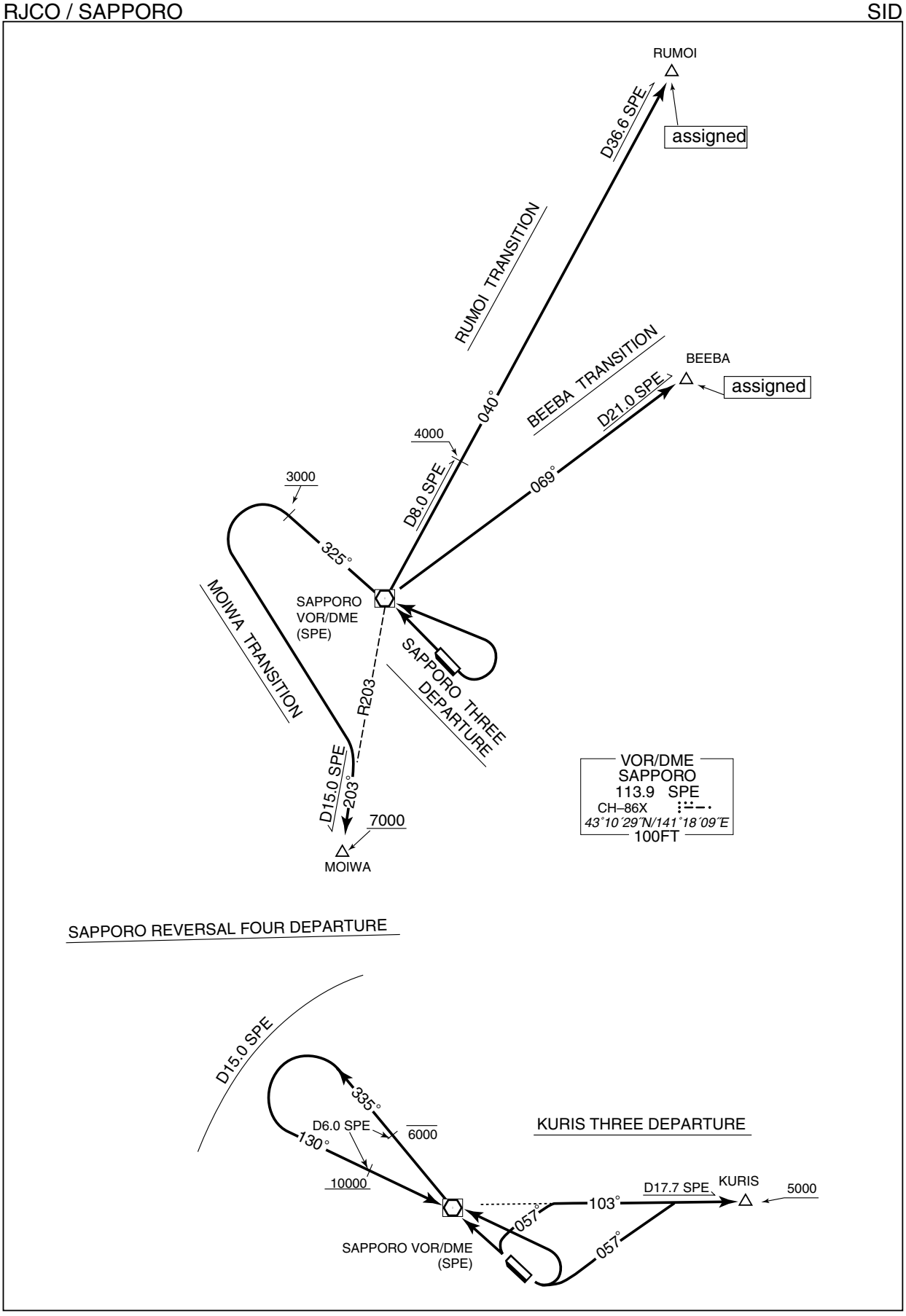
From over SPE VOR/DME, climb via SPE R069 to BEEBA.
Cross BEEBA at assigned altitude.

MOIWA TRANSITION

From over SPE VOR/DME, climb via SPE R325 to 3000FT or above, turn left to intercept and proceed via SPE R203 to MOIWA.
Cross MOIWA at or above 7000FT.
Note: Do not start left turn to MOIWA before SPE VOR/DME.

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO SID

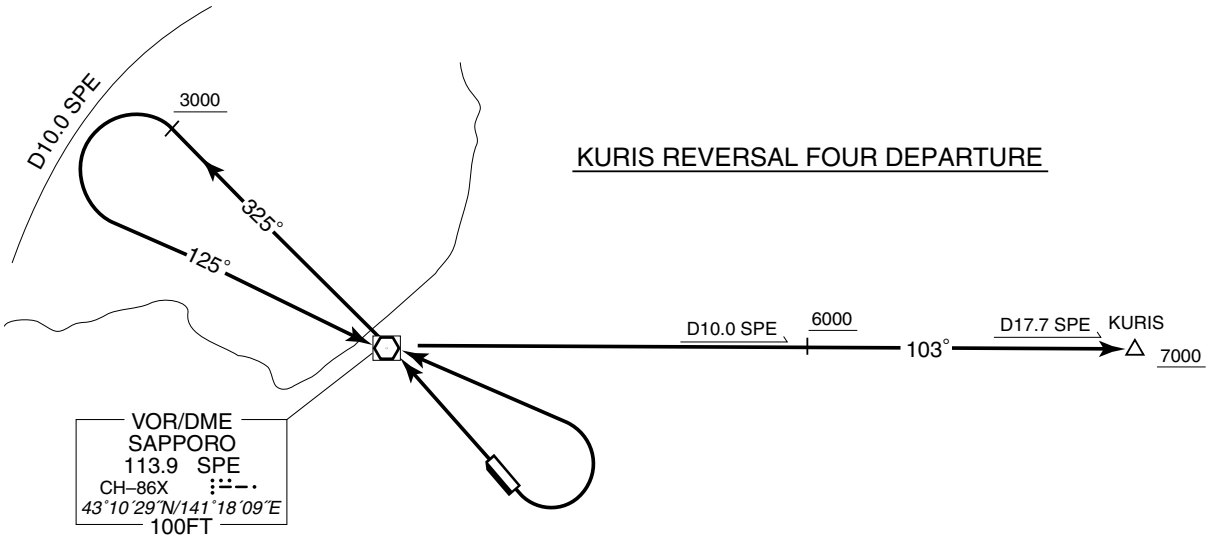
KURIS REVERSAL FOUR DEPARTURE

RWY 14 : Turn left,....

RWY 32 : ....

....climb direct to SPE VOR/DME, via SPE R325 until passing 3000 FT, turn left to intercept and proceed via SPE R305 to SPE VOR/DME within SPE 10.0DME, via SPE R103 to KURIS.

Cross SPE R103/10.0DME at or above 6000FT, cross KURIS at or above 7000FT.



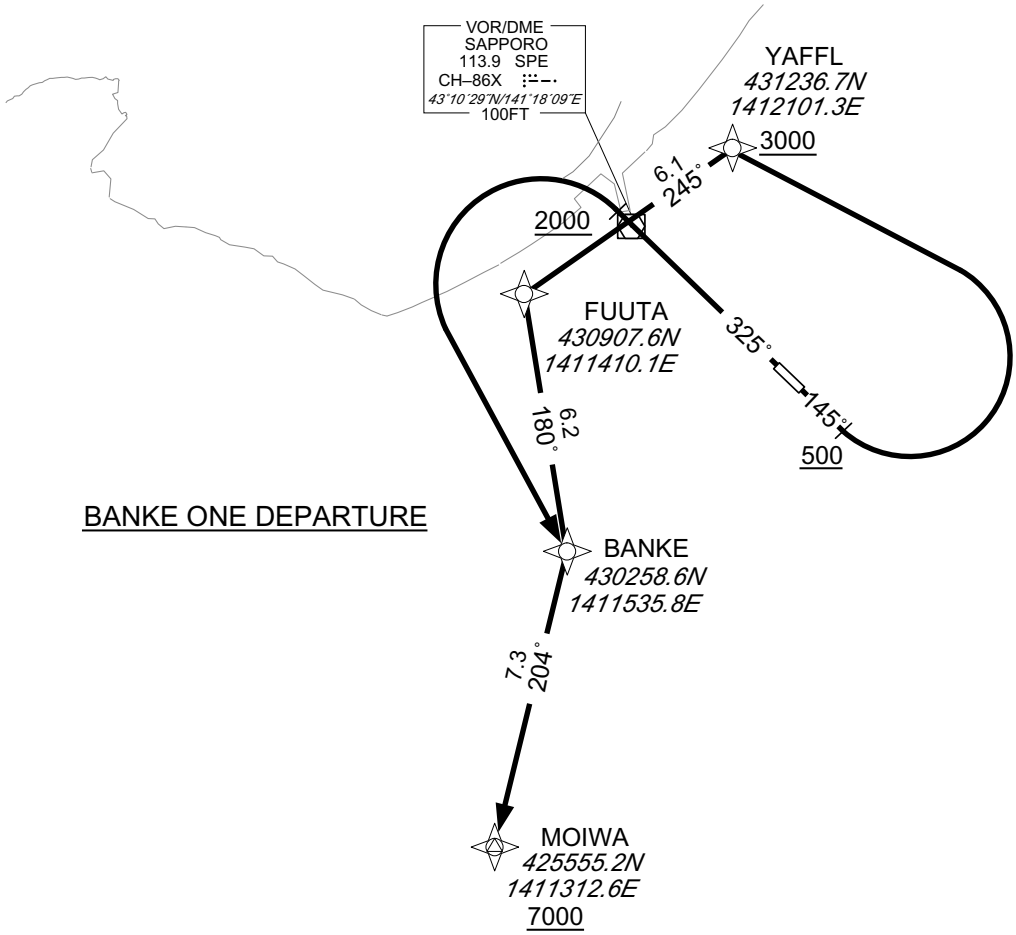
STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO RNAV SID

BANKE ONE DEPARTURE	Basic RNP1

Note GNSS required.

VAR 10° W(2020)



BANKE ONE DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, turn left direct to YAFFL at or above 3000FT, to FUUTA, to BANKE, to MOIWA at or above 7000FT.

RWY32 : Climb on HDG325° at or above 2000FT, turn left direct to BANKE, to MOIWA at or above 7000FT.

Note RWY14 : 6.0% climb gradient required up to 2200FT.
OBST ALT 2822FT located at 7.8NM 266° FM end of RWY14.

RWY32 : 6.0% climb gradient required up to 4000FT.
OBST ALT 3585FT located at 8.4NM 261° FM end of RWY32.

CHANGE : New PROC .

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO RNAV SID

BANKE ONE DEPARTURE

RWY14

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	145 (134.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	YAFFL	—	—	-9.7	—	L	+3000	—	—	Basic RNP1
003	TF	FUUTA	—	245 (235.2)	-9.7	6.1	—	—	—	—	Basic RNP1
004	TF	BANKE	—	180 (170.4)	-9.7	6.2	—	—	—	—	Basic RNP1
005	TF	MOIWA	—	204 (193.9)	-9.7	7.3	—	+7000	—	—	Basic RNP1

RWY32

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	325 (314.8)	-9.7	—	—	+2000	—	—	Basic RNP1
002	DF	BANKE	—	—	-9.7	—	L	—	—	—	Basic RNP1
003	TF	MOIWA	—	204 (193.9)	-9.7	7.3	—	+7000	—	—	Basic RNP1

CHANGE : New PROC .

STANDARD DEPARTURE CHART - INSTRUMENT

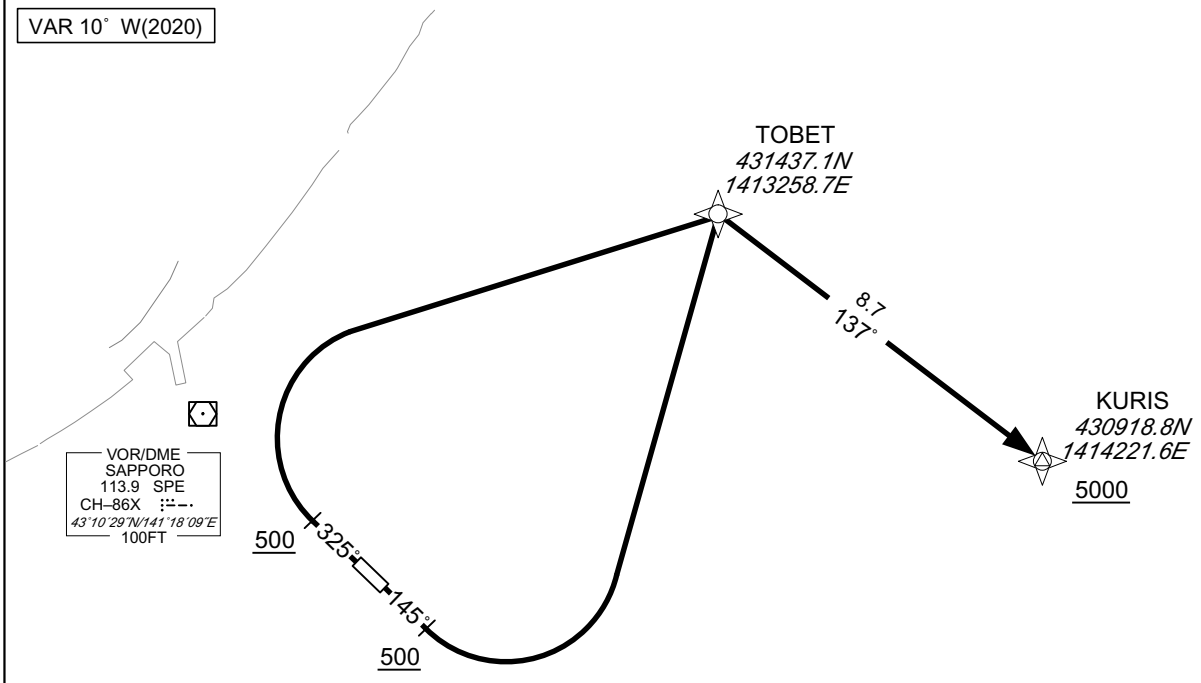
RJCO / SAPPORO

RNAV SID

TOBET EAST ONE DEPARTURE

Basic RNP1

Note GNSS required.



TOBET EAST ONE DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, turn left direct to TOBET, to KURIS at or above 5000FT.

RWY32 : Climb on HDG325° at or above 500FT, turn right direct to TOBET, to KURIS at or above 5000FT.

Note RWY14 : 6.0% climb gradient required up to 500FT.
RWY32 : 6.0% climb gradient required up to 500FT.

RWY14

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	145 (134.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	L	—	—	—	Basic RNP1
003	TF	KURIS	—	137 (127.7)	-9.7	8.7	—	+5000	—	—	Basic RNP1

RWY32

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	325 (314.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	R	—	—	—	Basic RNP1
003	TF	KURIS	—	137 (127.7)	-9.7	8.7	—	+5000	—	—	Basic RNP1

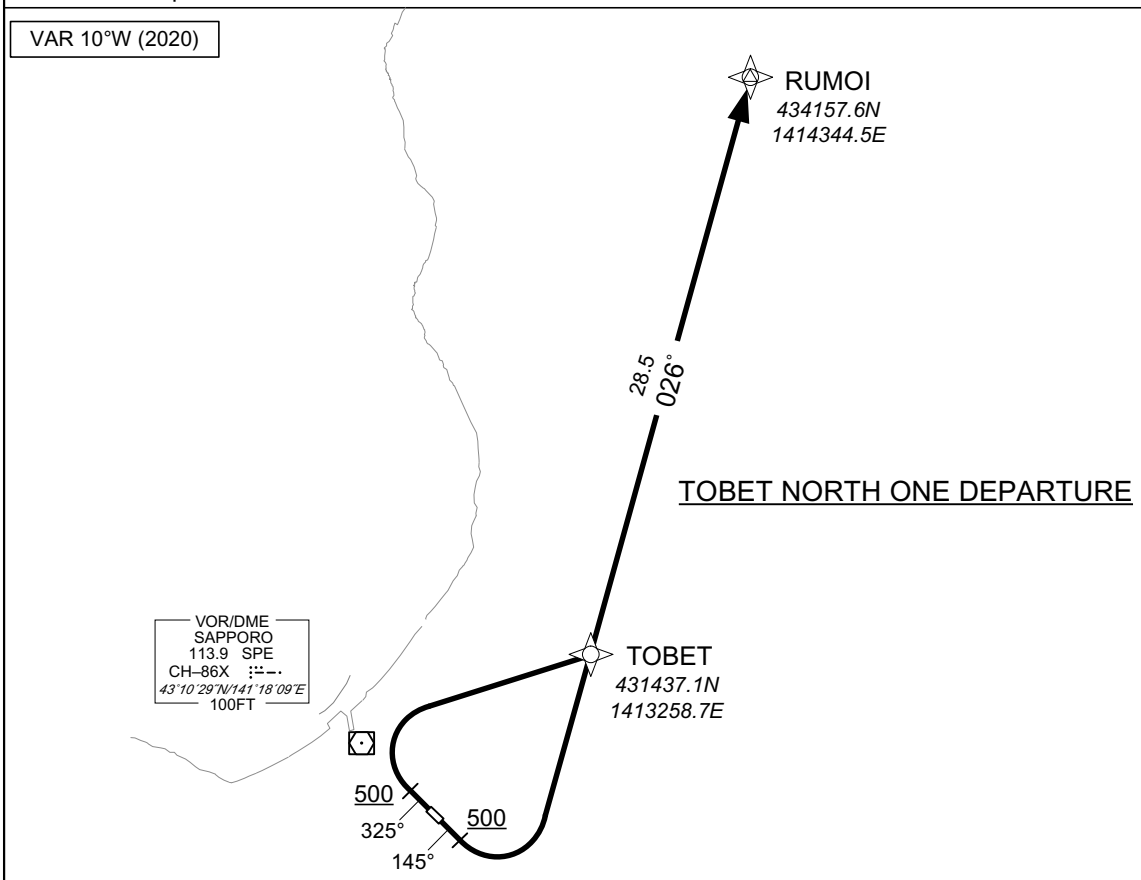
CHANGE : New PROC .

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO — RNAV SID

TOBET NORTH ONE DEPARTURE	Basic RNP1

Note GNSS required.



TOBET NORTH ONE DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, turn left direct to TOBET, to RUMOI.
RWY32 : Climb on HDG325° at or above 500FT, turn right direct to TOBET, to RUMOI.
Note RWY14 : 6.0% climb gradient required up to 500FT.
RWY32 : 6.0% climb gradient required up to 500FT.

RWY14

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	145 (134.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	L	—	—	—	Basic RNP1
003	TF	RUMOI	—	026 (015.9)	-9.7	28.5	—	—	—	—	Basic RNP1

RWY32

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	325 (314.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	R	—	—	—	Basic RNP1
003	TF	RUMOI	—	026 (015.9)	-9.7	28.5	—	—	—	—	Basic RNP1

CHANGE : New PROC .

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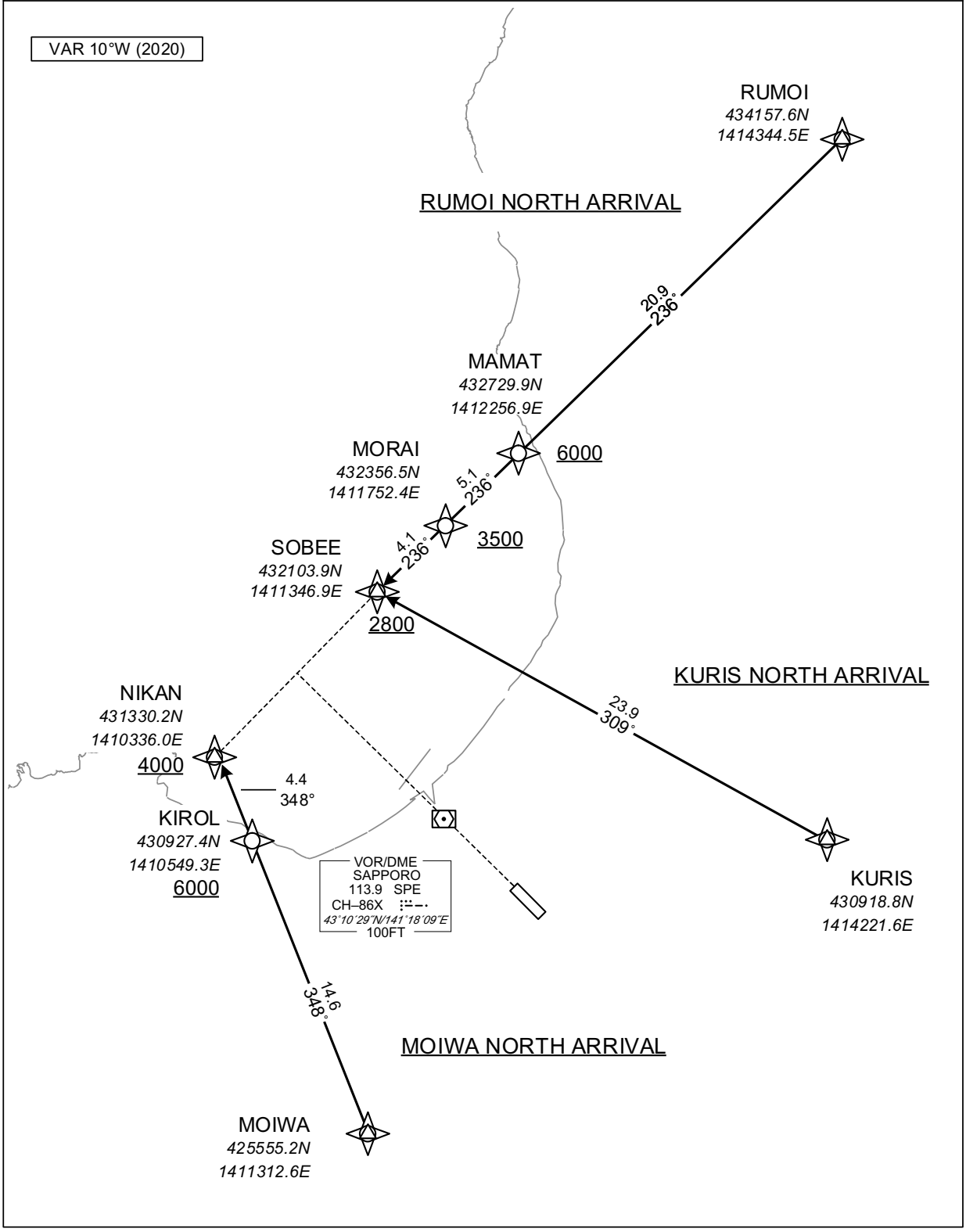
STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO RNAV STAR RWY14

MOIWA NORTH ARRIVAL
RUMOI NORTH ARRIVAL
KURIS NORTH ARRIVAL

Basic RNP1

Note GNSS required.



STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO RNAV STAR RWY14

MOIWA NORTH ARRIVAL

From MOIWA, to KIROL at or above 6000FT, to NIKAN at or above 4000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MOIWA	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	KIROL	-	348 (338.3)	-9.7	14.6	-	+6000	-	-	Basic RNP1
003	TF	NIKAN	-	348 (338.2)	-9.7	4.4	-	+4000	-	-	Basic RNP1

RUMOI NORTH ARRIVAL

From RUMOI, to MAMAT at or above 6000FT, to MORAI at or above 3500FT, to SOBEE at or above 2800FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	RUMOI	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.7	20.9	-	+6000	-	-	Basic RNP1
003	TF	MORAI	-	236 (226.0)	-9.7	5.1	-	+3500	-	-	Basic RNP1
004	TF	SOBEE	-	236 (226.0)	-9.7	4.1	-	+2800	-	-	Basic RNP1

KURIS NORTH ARRIVAL

From KURIS, to SOBEE at or above 2800FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KURIS	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	SOBEE	-	309 (299.6)	-9.7	23.9	-	+2800	-	-	Basic RNP1

CHANGE : New PROC .

STANDARD ARRIVAL CHART-INSTRUMENT

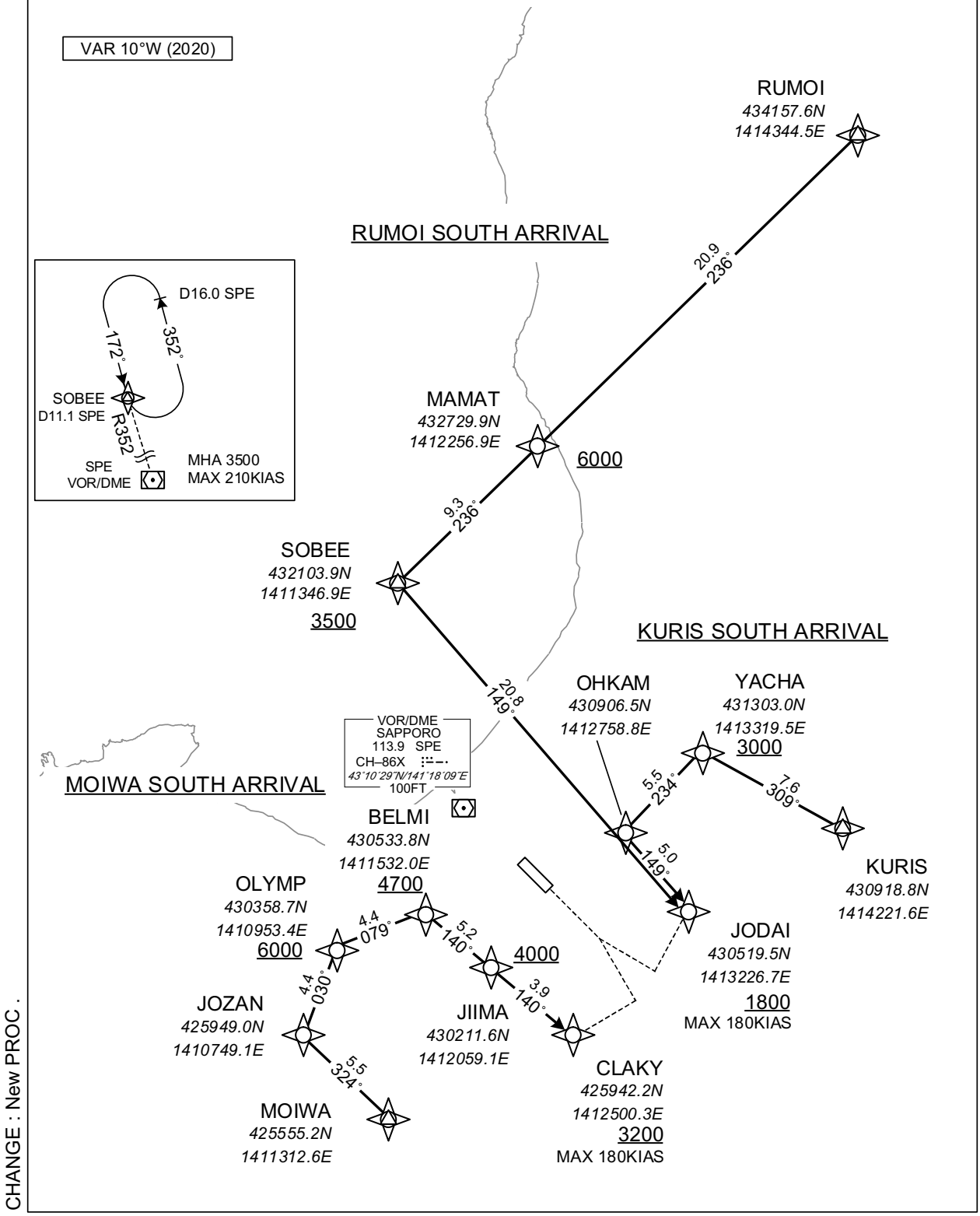
RJCO / SAPPORO

RNAV STAR RWY32

MOIWA SOUTH ARRIVAL
RUMOI SOUTH ARRIVAL
KURIS SOUTH ARRIVAL

Basic RNP1

Note GNSS required.



CHANGE : New PROC .

STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO RNAV STAR RWY32

MOIWA SOUTH ARRIVAL

From MOIWA, to JOZAN, to OLYMP at or above 6000FT, to BELMI at or above 4700FT, to JIIMA at or above 4000FT, to CLAKY at or above 3200FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MOIWA	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	JOZAN	-	324 (314.7)	-9.7	5.5	-	-	-	-	Basic RNP1
003	TF	OLYMP	-	030 (020.0)	-9.7	4.4	-	+6000	-	-	Basic RNP1
004	TF	BELMI	-	079 (068.9)	-9.7	4.4	-	+4700	-	-	Basic RNP1
005	TF	JIIMA	-	140 (130.2)	-9.7	5.2	-	+4000	-	-	Basic RNP1
006	TF	CLAKY	-	140 (130.3)	-9.7	3.9	-	+3200	-180	-	Basic RNP1

RUMOI SOUTH ARRIVAL

From RUMOI, to MAMAT at or above 6000FT, to SOBEE at or above 3500FT, to JODAI at or above 1800FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	RUMOI	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.7	20.9	-	+6000	-	-	Basic RNP1
003	TF	SOBEE	-	236 (226.0)	-9.7	9.3	-	+3500	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.1)	-9.7	20.8	-	+1800	-180	-	Basic RNP1

KURIS SOUTH ARRIVAL

From KURIS, to YACHA at or above 3000FT, to OHKAM, to JODAI at or above 1800FT.

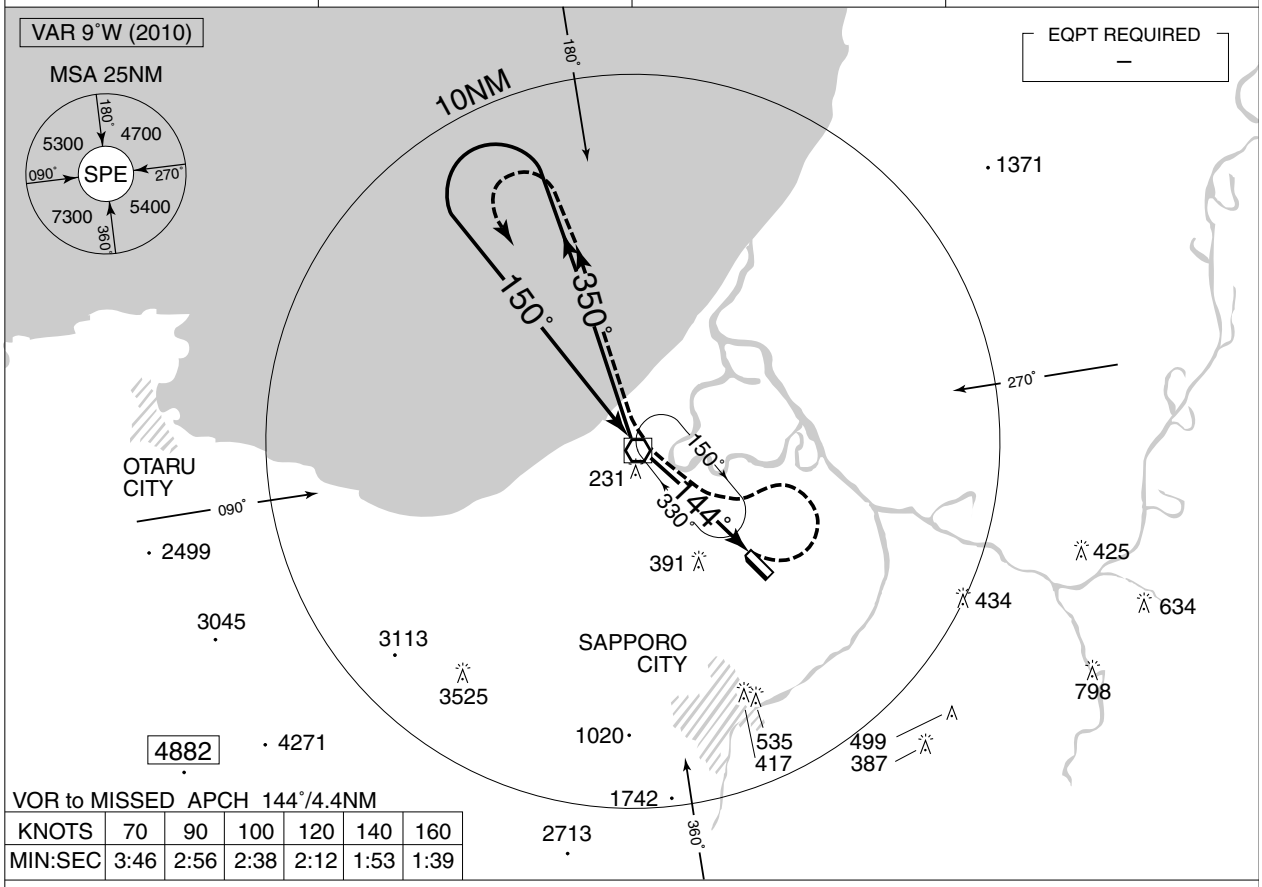
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KURIS	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	YACHA	-	309 (299.6)	-9.7	7.6	-	+3000	-	-	Basic RNP1
003	TF	OHKAM	-	234 (224.7)	-9.7	5.5	-	-	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.2)	-9.7	5.0	-	+1800	-180	-	Basic RNP1

CHANGE : New PROC .

INSTRUMENT APPROACH CHART

RJCO / SAPPORO VOR RWY14

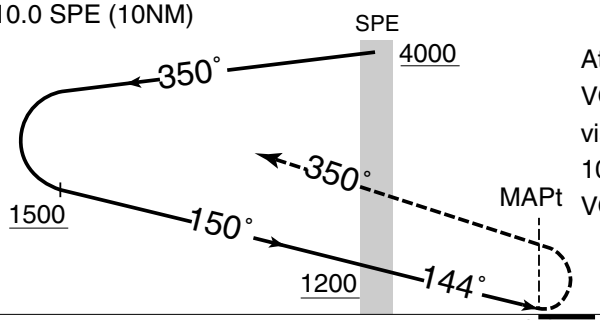
SAPPORO APP	SAPPORO VOR/DME	SAPPORO TWR	GCA AVBL
119.225 – 121.075	113.9 SPE	118.1 – 126.2 – 140.5	CALL
315.9	CH–86X	138.05 – 121.8G	SAPPORO APP
	43˚10´29˝N/141˚18´09˝E		



VOR to MISSED APCH 144˚/4.4NM

KNOTS	70	90	100	120	140	160
MIN:SEC	3:46	2:56	2:38	2:12	1:53	1:39

Remain within D10.0 SPE (10NM)



MISSED APPROACH
At 4.4DME(4.4NM)after passing SPE VOR/DME,turn left climb to 4000FT via SPE R350, turn left within SPE 10.0DME(10NM), proceed to SPE VOR/DME and hold.
Contact SAPPORO APP.

MINIMA THR elev. 20 AD elev. 26

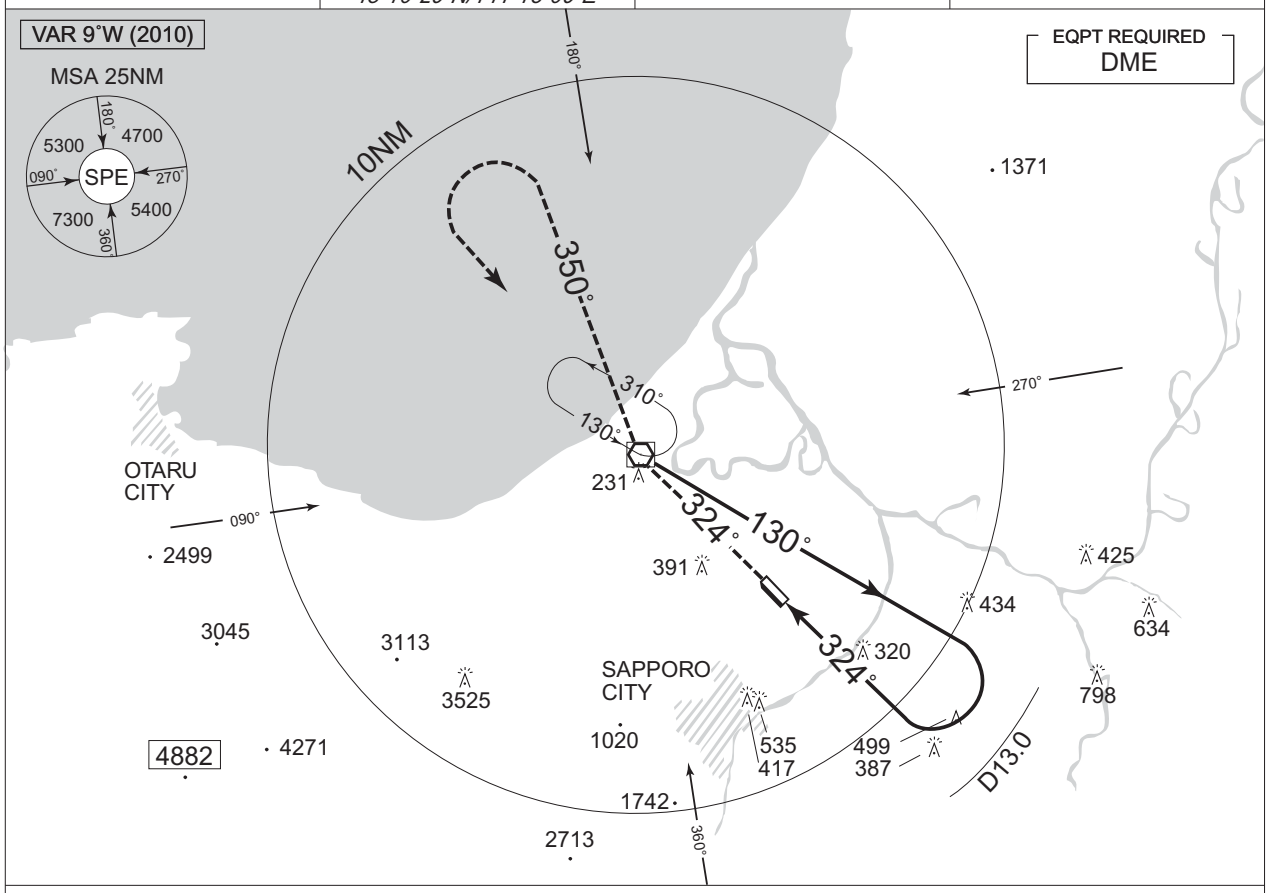
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600 (574)	1500	600 (574)	1600
B				
C		2000		2400
D	–	–	–	–

Circling to EAST side of RWY only.

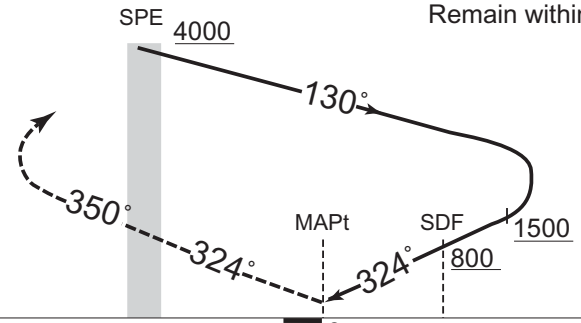
INSTRUMENT APPROACH CHART

RJCO / SAPPORO VOR RWY32

SAPPORO APP	SAPPORO VOR/DME	SAPPORO TWR	GCA AVBL
119.225 – 121.075	113.9 SPE	118.1 – 126.2 – 140.5	CALL
315.9	CH–86X	138.05 – 121.8G	SAPPORO APP
	43˚10´29˝N/141˚18´09˝E		



MISSED APPROACH
At 5.3DME prior to SPE VOR/DME climb to 4000FT via SPE R144 then SPE R350, turn left within SPE 10.0DME,proceed to SPE VOR/DME and hold.
Contact SAPPORO APP.



DME to SPE	0	4.4	5.3	9.0
NM to THR			0	3.7

MINIMA THR elev. 27 AD elev. 26

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	620 (594)	1500	620 (594)	1600
B				
C		2000		2400
D	–	–	–	–

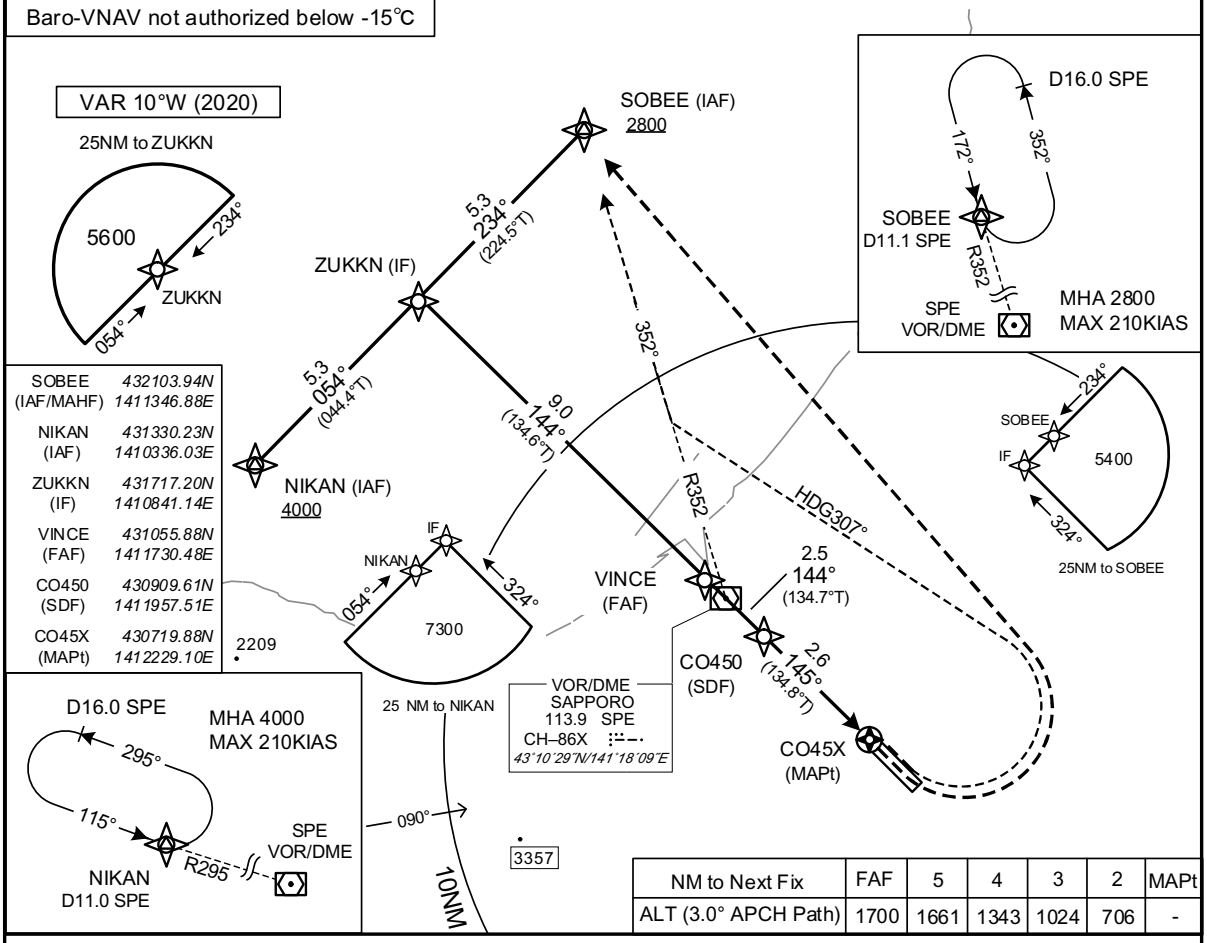
Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

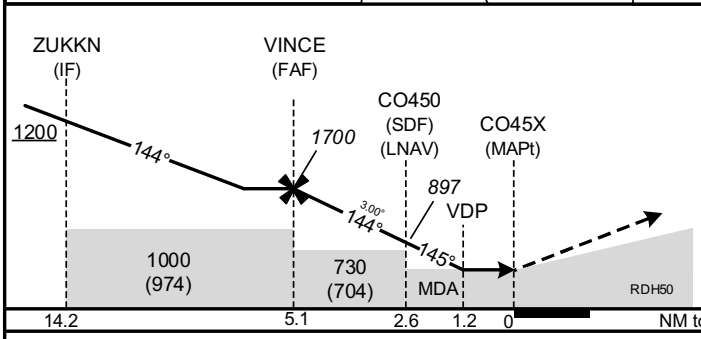
RJCO / SAPPORO — RNAV(GNSS) RWY14

SAPPORO APP		SAPPORO TWR	GCA AVBL
119.225 - 121.075 315.9	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	118.1 - 126.2 - 140.5 138.05 - 121.8G	CALL SAPPORO APP

Baro-VNAV not authorized below -15℃



NM to Next Fix	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)	1700	1661	1343	1024	706	-



MISSED APPROACH

Turn left direct to SOBEE and hold at 2800FT.
Contact SAPPORO APP.

(For using VOR/DME)
Turn left climb to 2800FT via HDG 307° to intercept and proceed via SPE R352 to SOBEE and hold.
Contact SAPPORO APP.

MINIMA — THR elev. 20 — AD elev. 26

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	440 (420)	1500	440 (414)	1500	600 (574)	1600
B						
C		1800		1800		2400
D	-	-	-	-	-	-

Circling to EAST side of RWY only.

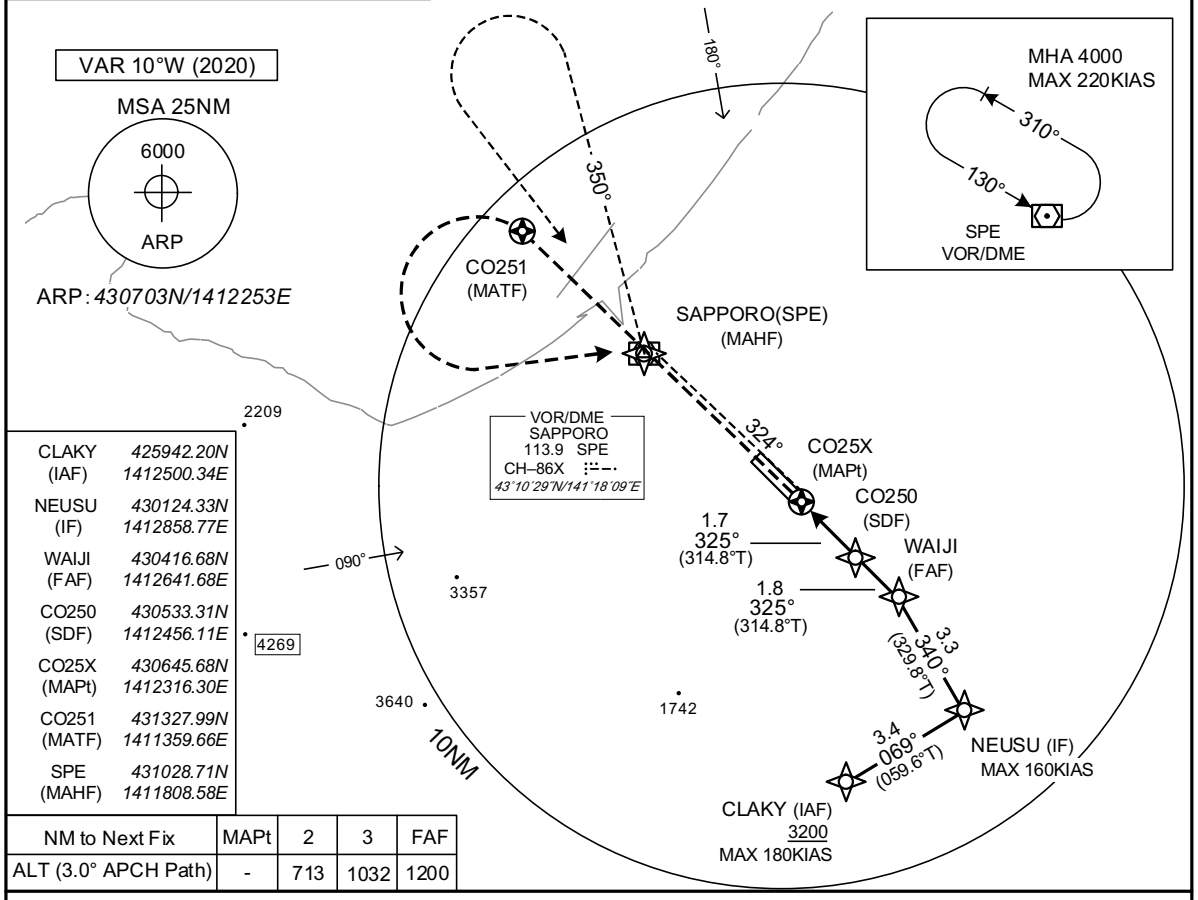
CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJCO / SAPPORO — RNAV(GNSS) Z RWY32

SAPPORO APP	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	SAPPORO TWR	GCA AVBL
119.225 - 121.075		118.1 - 126.2 - 140.5	CALL
315.9		138.05 - 121.8G	SAPPORO APP

Baro-VNAV not authorized below -15℃



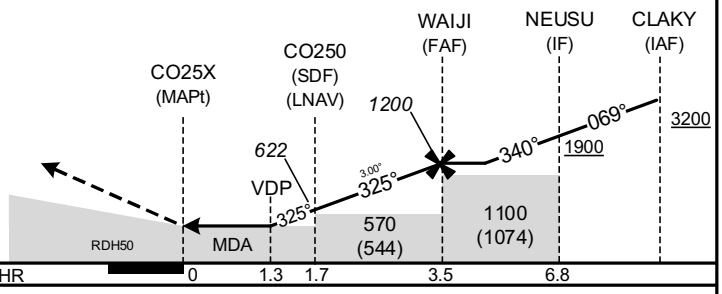
CLAKY (IAF)	425942.20N 1412500.34E
NEUSU (IF)	430124.33N 1412858.77E
WAIJI (FAF)	430416.68N 1412641.68E
CO250 (SDF)	430533.31N 1412456.11E
CO25X (MAPt)	430645.68N 1412316.30E
CO251 (MATF)	431327.99N 1411359.66E
SPE (MAHF)	431028.71N 1411808.58E

NM to Next Fix	MAPt	2	3	FAF
ALT (3.0° APCH Path)	-	713	1032	1200

MISSED APPROACH

Direct to CO251, turn left direct to SPE and hold at 4000FT.
Contact SAPPORO APP.

(For using VOR/DME)
Climb via SPE R144 to SPE VOR/DME, via SPE R350 to 4000FT, turn left direct to SPE VOR/DME and hold.
Contact SAPPORO APP.



MINIMA — THR elev. 27 — AD elev. 26

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	460 (433)	1500	460 (434)	1500	600 (574)	1600
B						
C		1800		1800		2400
D	-	-	-	-	-	-

Circling to EAST side of RWY only.

CHANGE : New PROC.

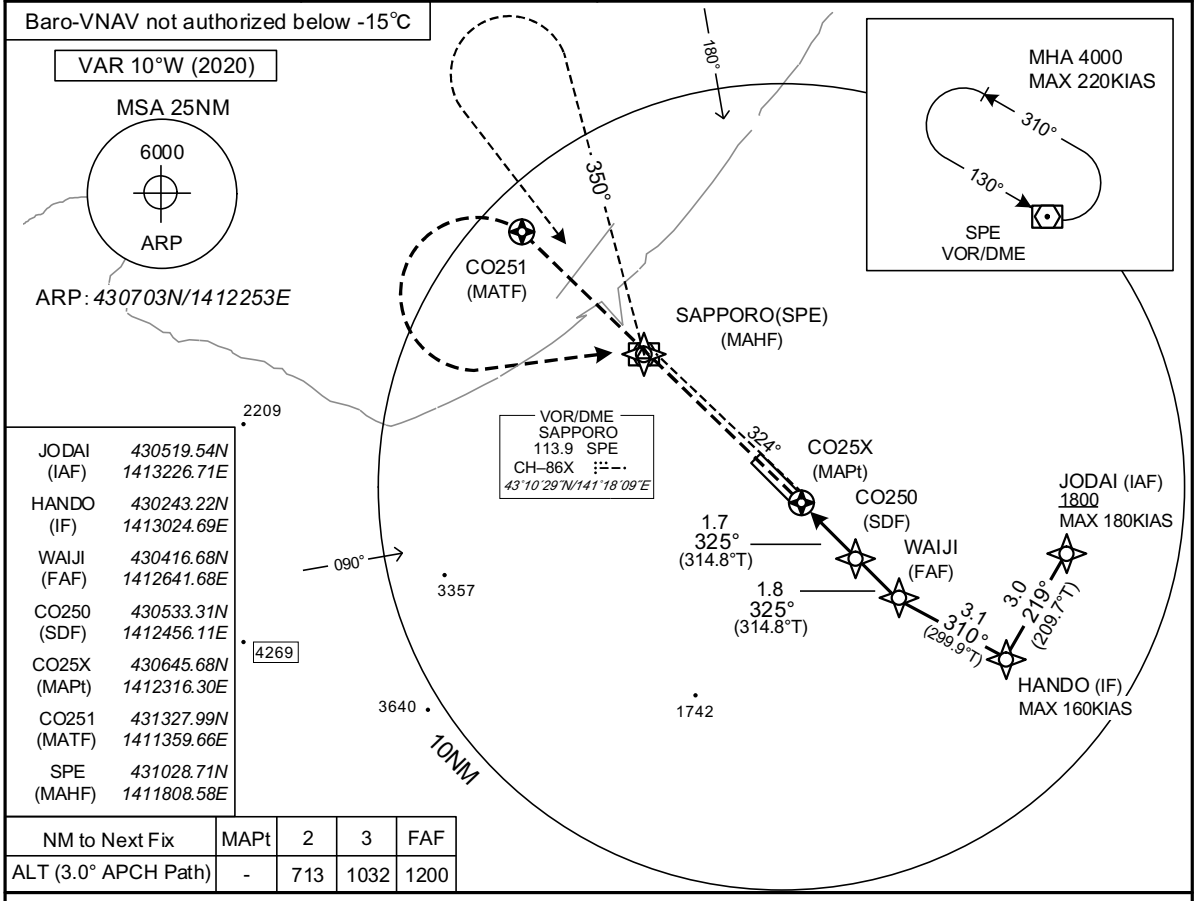
INSTRUMENT APPROACH CHART

RJCO / SAPPORO — RNAV(GNSS) Y RWY32

SAPPORO APP 119.225 - 121.075 315.9	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	SAPPORO TWR 118.1 - 126.2 - 140.5 138.05 - 121.8G	GCA AVBL CALL SAPPORO APP

Baro-VNAV not authorized below -15℃

VAR 10°W (2020)



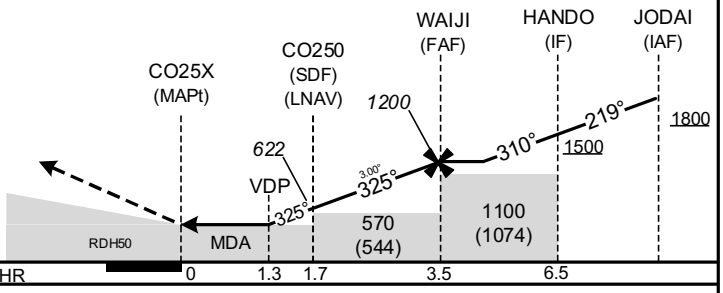
JODAI (IAF)	430519.54N 1413226.71E
HANDO (IF)	430243.22N 1413024.69E
WAIJI (FAF)	430416.68N 1412641.68E
CO250 (SDF)	430533.31N 1412456.11E
CO25X (MAPt)	430645.68N 1412316.30E
CO251 (MATF)	431327.99N 1411359.66E
SPE (MAHF)	431028.71N 1411808.58E

NM to Next Fix	MAPt	2	3	FAF
ALT (3.0° APCH Path)	-	713	1032	1200

MISSED APPROACH

Direct to CO251, turn left direct to SPE and hold at 4000FT.
Contact SAPPORO APP.

(For using VOR/DME)
Climb via SPE R144 to SPE VOR/DME, via SPE R350 to 4000FT, turn left direct to SPE VOR/DME and hold.
Contact SAPPORO APP.



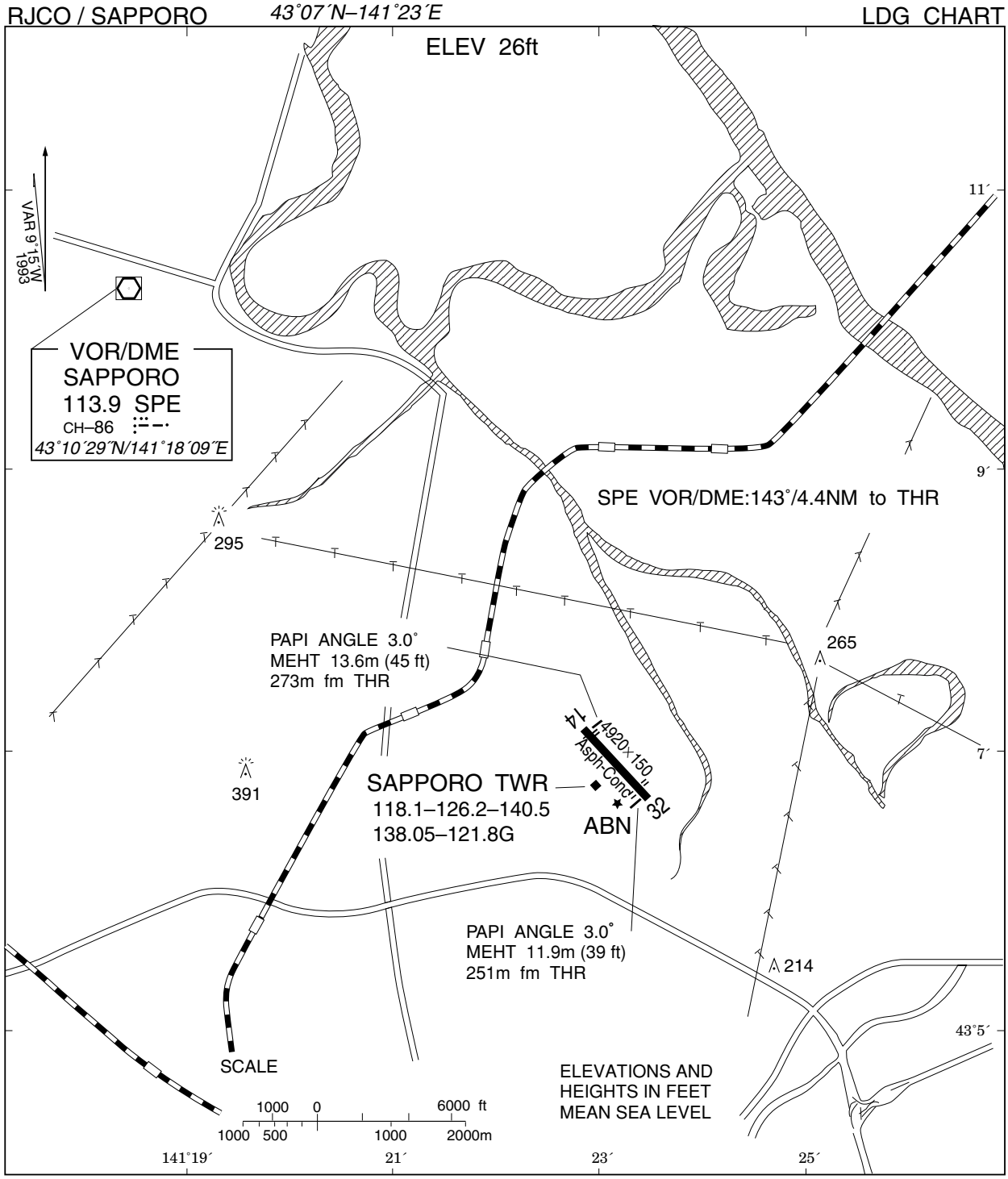
MINIMA THR elev. 27 AD elev. 26

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	460 (433)	1500	460 (434)	1500	600 (574)	1600
B						
C		1800		1800		2400
D	-	-	-	-	-	-

Circling to EAST side of RWY only.

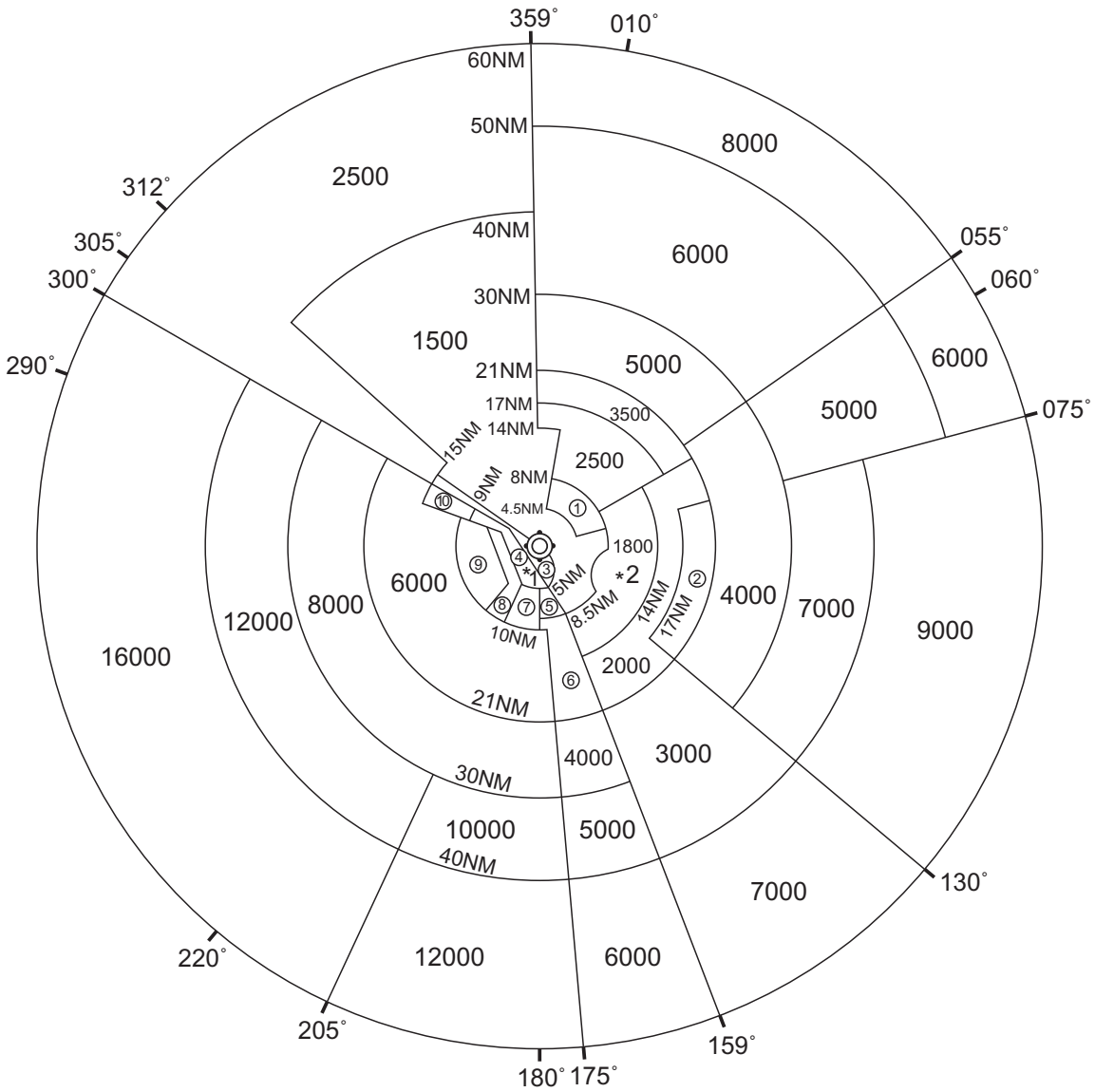
CHANGE : New PROC.

INTENTIONALLY LEFT BLANK


RJCO / SAPPORO
43˚07´N–141˚23´E
LDG CHART
ELEV 26ft
VAR 9˚15´W
1993
VOR/DME
SAPPORO
113.9 SPE
CH–86
43˚10´29˝N/141˚18´09˝E
SPE VOR/DME:143˚/4.4NM to THR
295
265
391
214
PAPI ANGLE 3.0˚
MEHT 13.6m (45 ft)
273m fm THR
PAPI ANGLE 3.0˚
MEHT 11.9m (39 ft)
251m fm THR
14
32
14920×150
Asph-Concrete
SAPPORO TWR
118.1–126.2–140.5
138.05–121.8G
ABN
11´
9´
7´
43˚5´
SCALE
1000 0 6000 ft
1000 500 1000 2000m
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
141˚19´
21´
23´
25´

RJCO / SAPPORO Minimum Vectoring Altitude CHART

VAR 9˚W (2013)



① 1600
② 2500
③ 1700
④ 3000
⑤ 2100
⑥ 2700
⑦ 3200
⑧ 4000
⑨ 4700
⑩ 4000

CENTER : *430703N/1412253E* (ARP)
*1 : *430405N/1412108E* RADIUS : 3.2NM
*2 : *430520N/1413527E* RADIUS : 3NM