

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

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SAPPORO REVERSAL FOUR DEPARTURE



STANDARD DEPARTURE CHART - INSTRUMENT

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SID

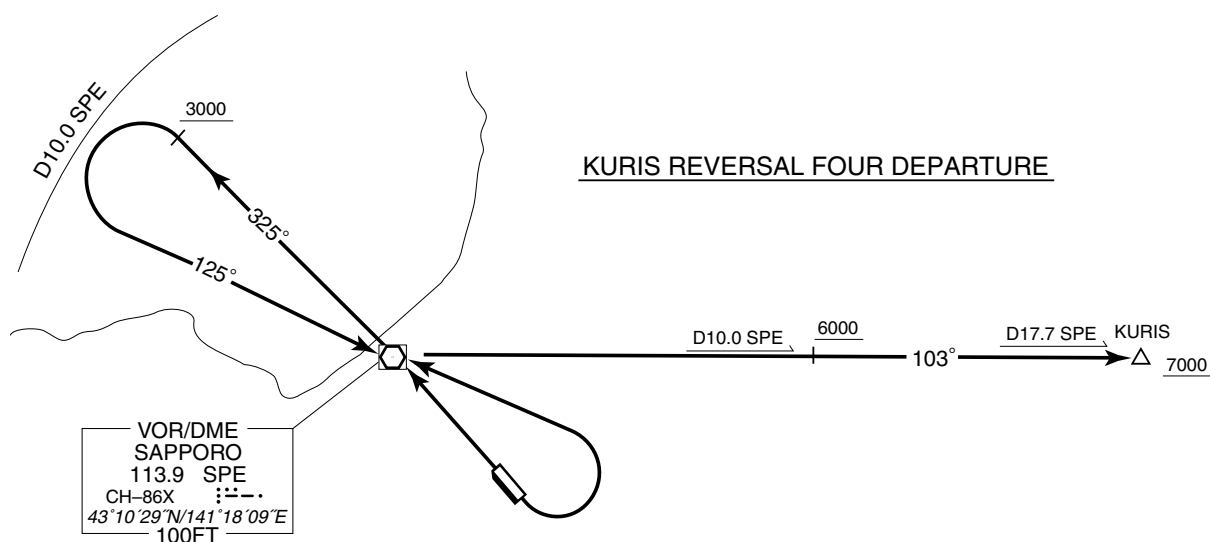
KURIS REVERSAL FOUR DEPARTURE

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

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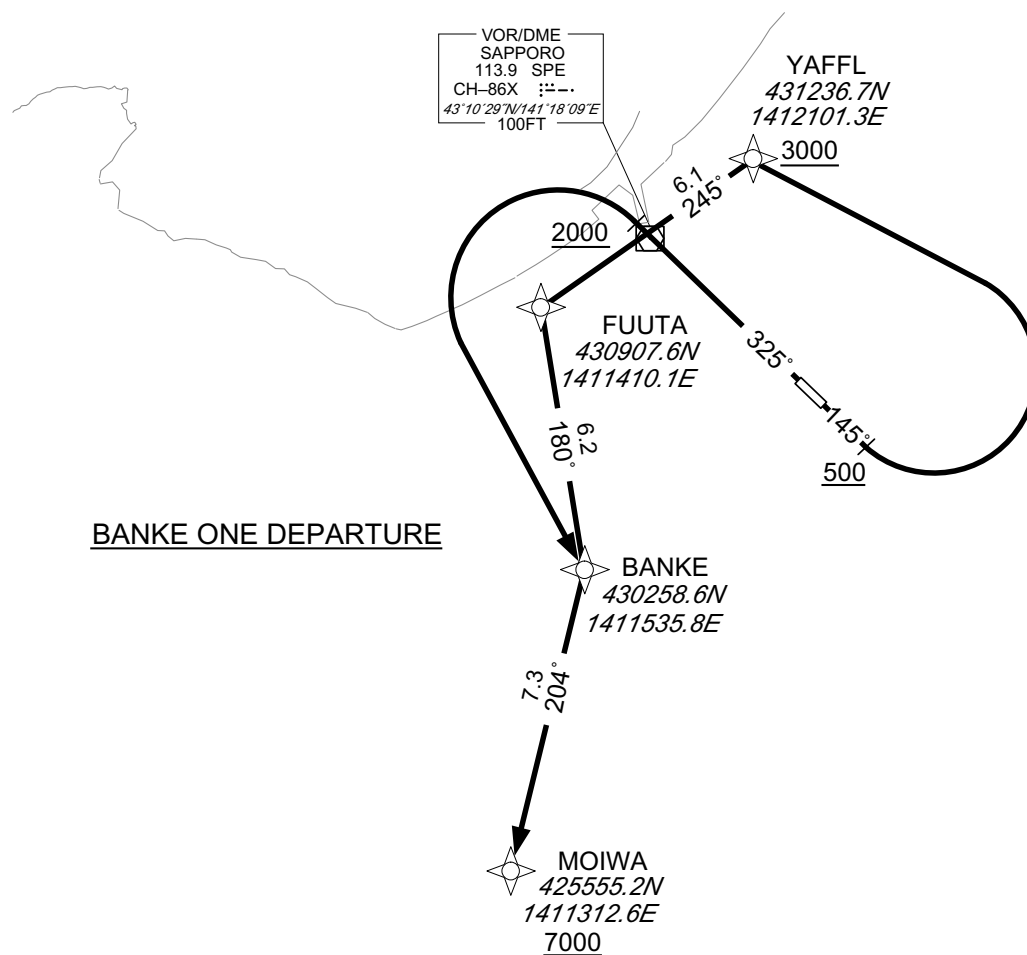
RNAV SID

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 : FIX symbol(MOIWA)

STANDARD DEPARTURE CHART - INSTRUMENT

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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

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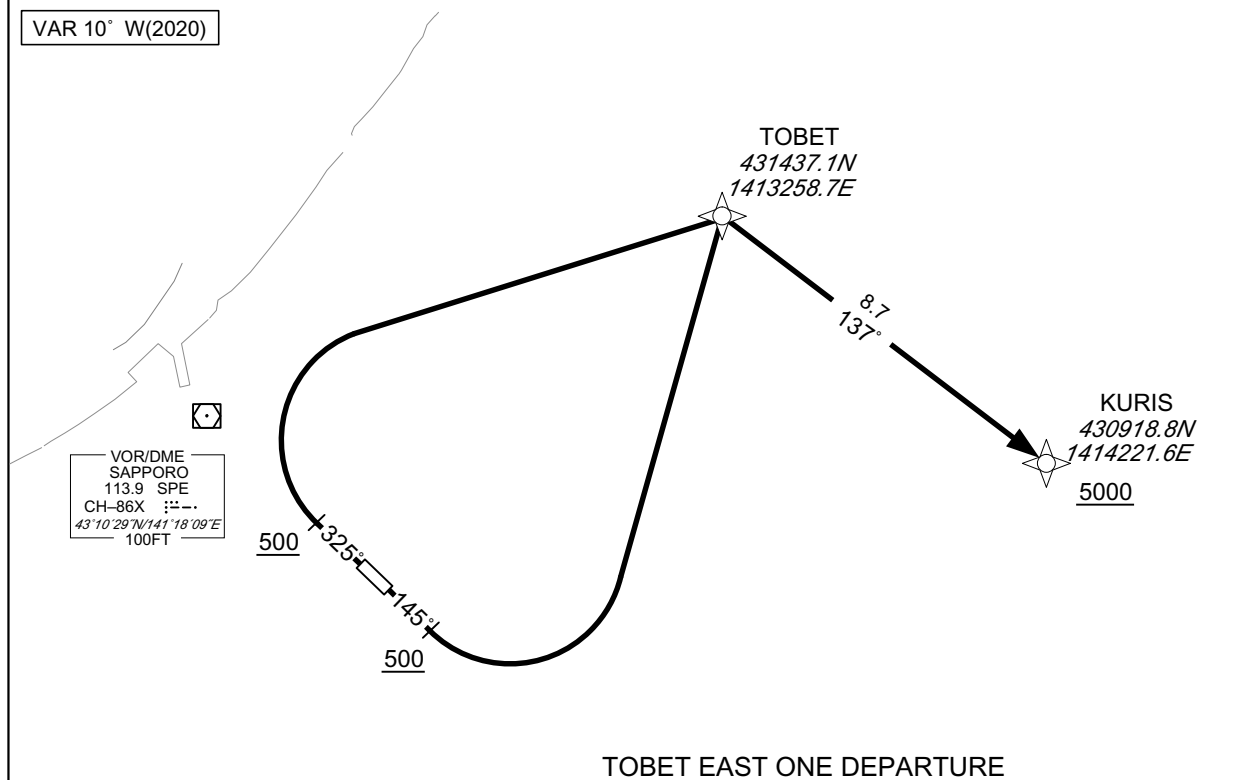
RNAV SID

TOBET EAST ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 10° W(2020)



TOBET EAST ONE DEPARTURE

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 : FIX symbol(KURIS) .

STANDARD DEPARTURE CHART - INSTRUMENT

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RNAV SID



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STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY14

MOIWA NORTH ARRIVAL RUMOI NORTH ARRIVAL KURIS NORTH ARRIVAL	Basic RNP1
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Note GNSS required.



STANDARD ARRIVAL CHART-INSTRUMENT

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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	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	KIROL	-	348 (338.3)	-9.9	14.6	-	+6000	-	-	Basic RNP1
003	TF	NIKAN	-	348 (338.2)	-9.9	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	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.9	20.9	-	+6000	-	-	Basic RNP1
003	TF	MORAI	-	236 (226.0)	-9.9	5.1	-	+3500	-	-	Basic RNP1
004	TF	SOBEE	-	236 (226.0)	-9.9	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	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	SOBEE	-	309 (299.6)	-9.9	23.9	-	+2800	-	-	Basic RNP1

CHANGE : VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

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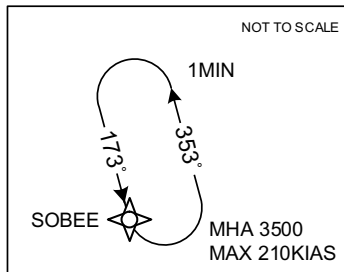
RNAV STAR RWY32

MOIWA SOUTH ARRIVAL
RUMOI SOUTH ARRIVAL
KURIS SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10°W (2022)



RUMOI SOUTH ARRIVAL

RUMOI
434157.6N
1414344.5E

MAMAT
432729.9N
1412256.9E

6000

SOBEE
432103.9N
1411346.9E
3500

KURIS SOUTH ARRIVAL

OHKAM
430906.5N
1412758.8E

YACHA
431303.0N
1413319.5E
3000

KURIS
430918.8N
1414221.6E

JODAI
430519.5N
1413226.7E
1800
MAX 180KIAS

VOR/DME
SAPPORO
113.9 SPE
CH-86X
43°10'29"N/141°18'09"E
100FT

MOIWA SOUTH ARRIVAL

BELMI
430533.8N
1411532.0E
4700

OLYMP
430358.7N
1410953.4E
6000

JOZAN
425949.0N
1410749.1E

MOIWA
425555.2N
1411312.6E

JIIMA
430211.6N
1412059.1E

CLAKY
425942.2N
1412500.3E
3200
MAX 180KIAS

CHANGE : VAR. Course FM MOIWA to JOZAN. Course FM YACHA to OHKAM. RNAV HLDG established(SOBEE).

STANDARD ARRIVAL CHART-INSTRUMENT

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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	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	JOZAN	-	325 (314.7)	-9.9	5.5	-	-	-	-	Basic RNP1
003	TF	OLYMP	-	030 (020.0)	-9.9	4.4	-	+6000	-	-	Basic RNP1
004	TF	BELMI	-	079 (068.9)	-9.9	4.4	-	+4700	-	-	Basic RNP1
005	TF	JIIMA	-	140 (130.2)	-9.9	5.2	-	+4000	-	-	Basic RNP1
006	TF	CLAKY	-	140 (130.3)	-9.9	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	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.9	20.9	-	+6000	-	-	Basic RNP1
003	TF	SOBEE	-	236 (226.0)	-9.9	9.3	-	+3500	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.1)	-9.9	20.8	-	+1800	-180	-	Basic RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	SOBEE	173 (163.3)	-9.9	1.0(-14000)	L	3500	FL140	-210(-14000)	Basic RNP1

KURIS SOUTH ARRIVAL

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

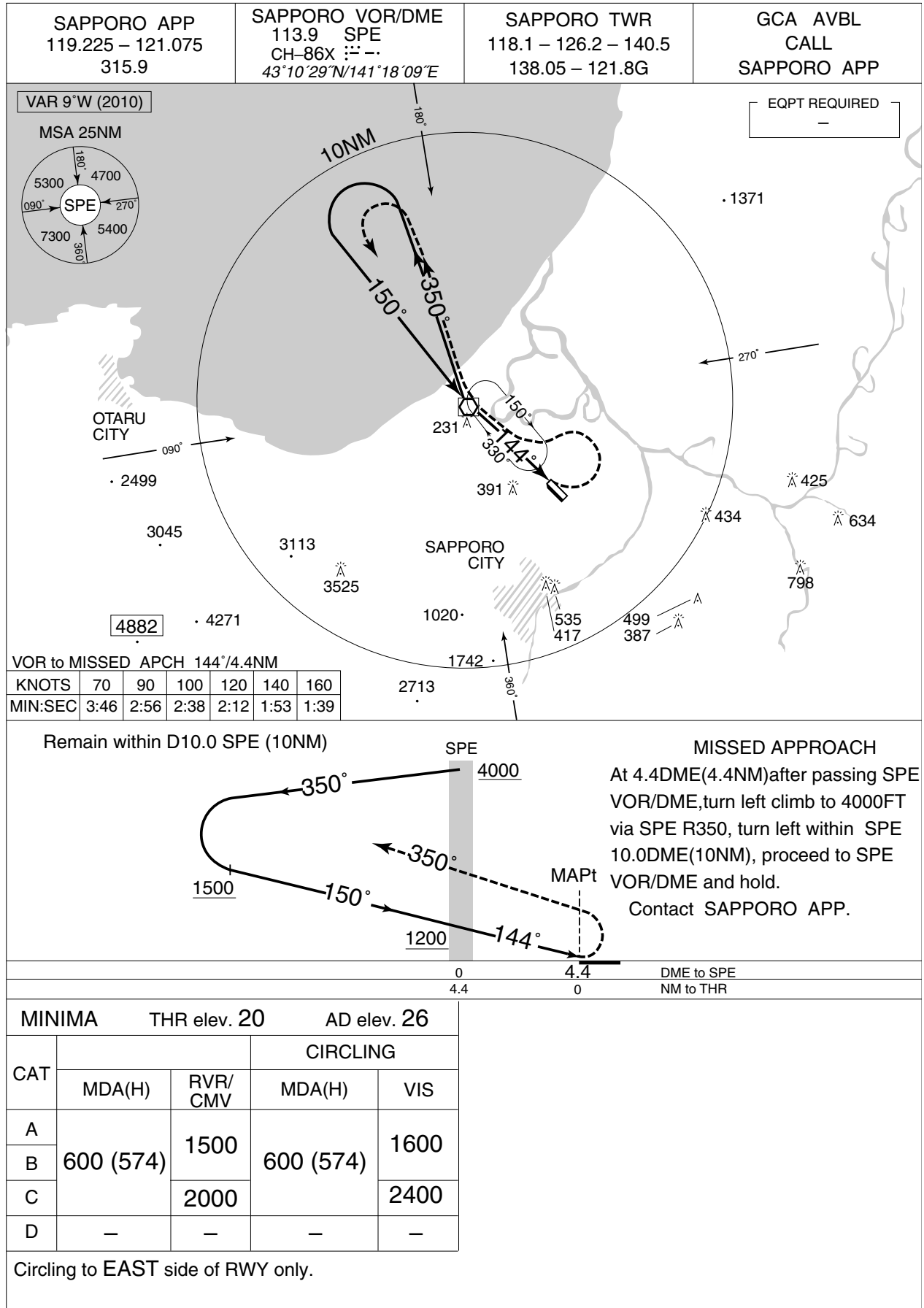
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KURIS	-	-	-9.9	-	-	-	-	-	Basic RNP1
002	TF	YACHA	-	309 (299.6)	-9.9	7.6	-	+3000	-	-	Basic RNP1
003	TF	OHKAM	-	235 (224.7)	-9.9	5.5	-	-	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.2)	-9.9	5.0	-	+1800	-180	-	Basic RNP1

CHANGE : VAR. Course FM MOIWA to JOZAN. Course FM YACHA to OHKAM. RNAV HLDG established(SOBEE).

INSTRUMENT APPROACH CHART

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VOR RWY14



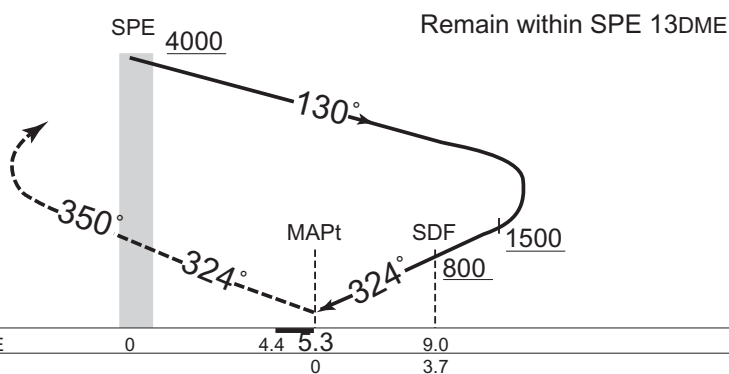
INSTRUMENT APPROACH CHART

RJCO / SAPPORO

VOR RWY32

**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.



MINIMA	THR elev. 27	AD elev. 26
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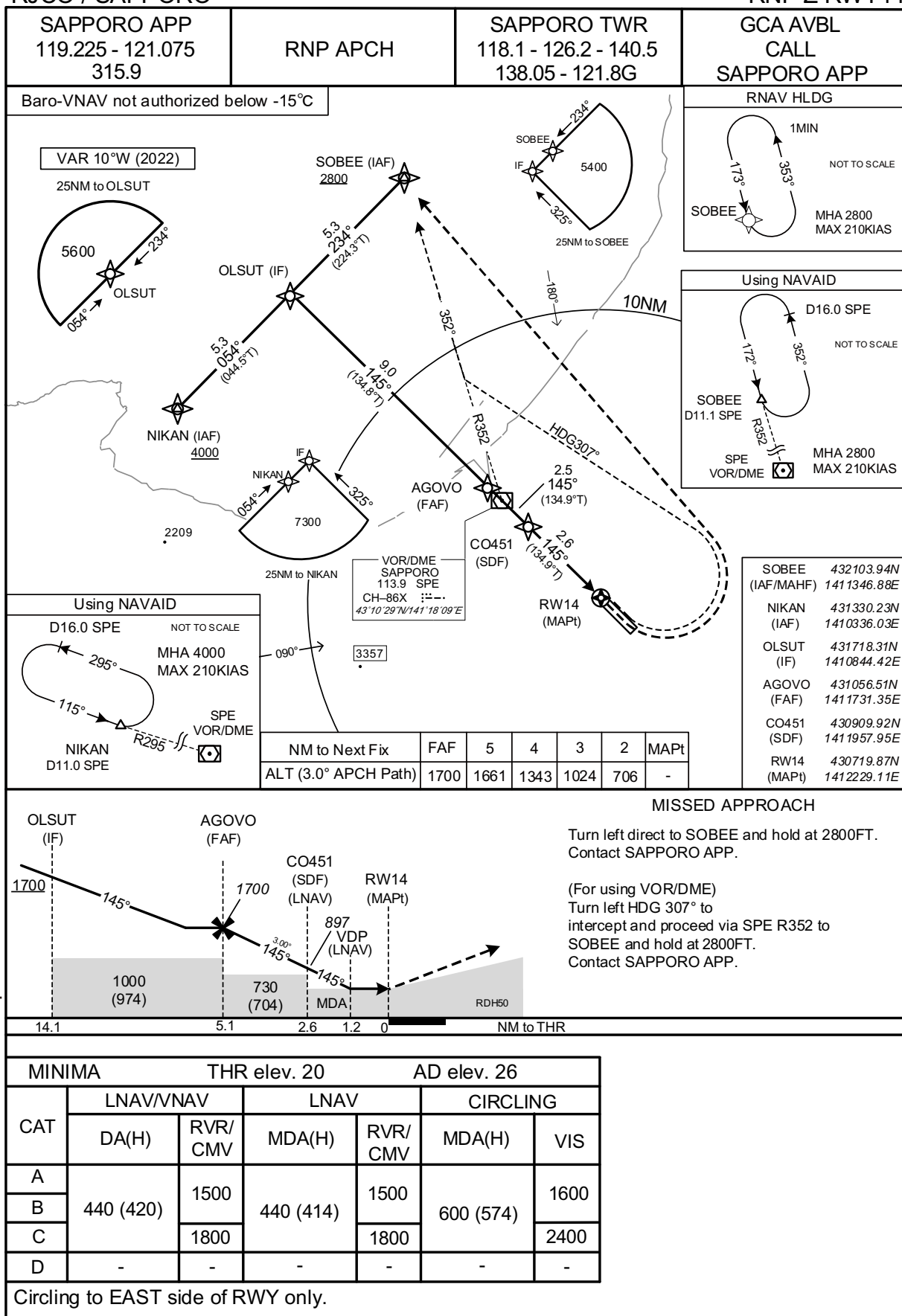
CAT	CIRCLING		MDA(H)	VIS
	MDA(H)	RVR/CMV		
A	620 (594)	1500	620 (594)	1600
B				
C		2000		2400
D	—	—	—	—

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

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RNP Z RWY14



INSTRUMENT APPROACH CHART

RJCO / SAPPORO

RNP Y RWY14(LPV ONLY)



CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJCO / SAPPORO

RNP Y RWY14(LPV ONLY)

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+00374
SBAS service provider identifier	2	FPAP Latitude	430641.1115N
Airport identifier	RJCO	FPAP Longitude	1412322.2875E
Runway	14	Threshold crossing height	00015.0
Approach performance designator	0	TCH units selector	1
Route indicator	Y	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M14A	∠ length offset	0192
LTP/FTP latitude	430719.8510N	HAL	40.00
LTP/FTP longitude	1412229.1365E	VAL	50.00
CRC remainder	DE9BC9B1		

Required additional data

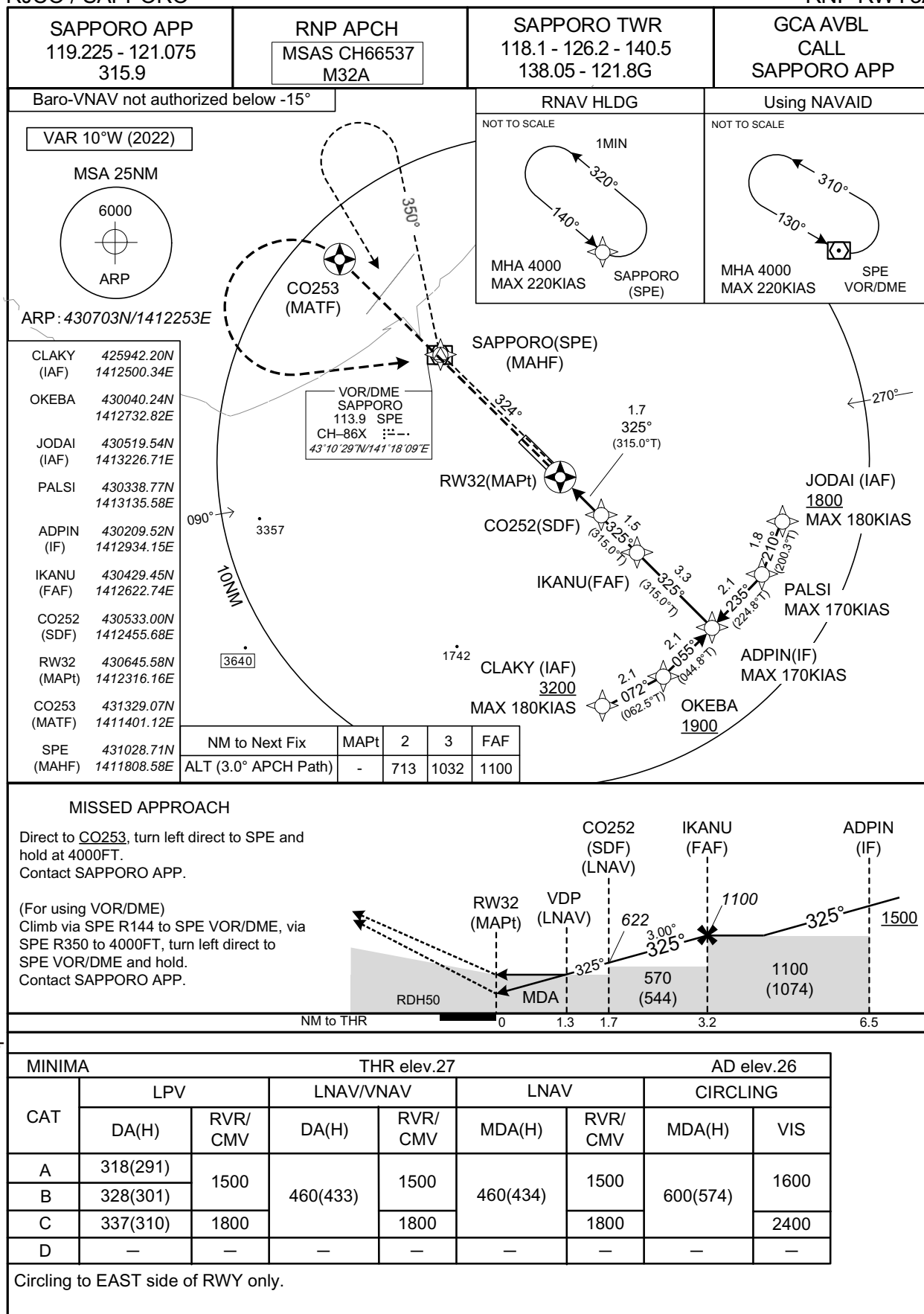
LTP/FTP orthometric height	5.7
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).

INSTRUMENT APPROACH CHART

RJCO / SAPPORO

RNP RWY32



CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJCO / SAPPORO

RNP RWY32

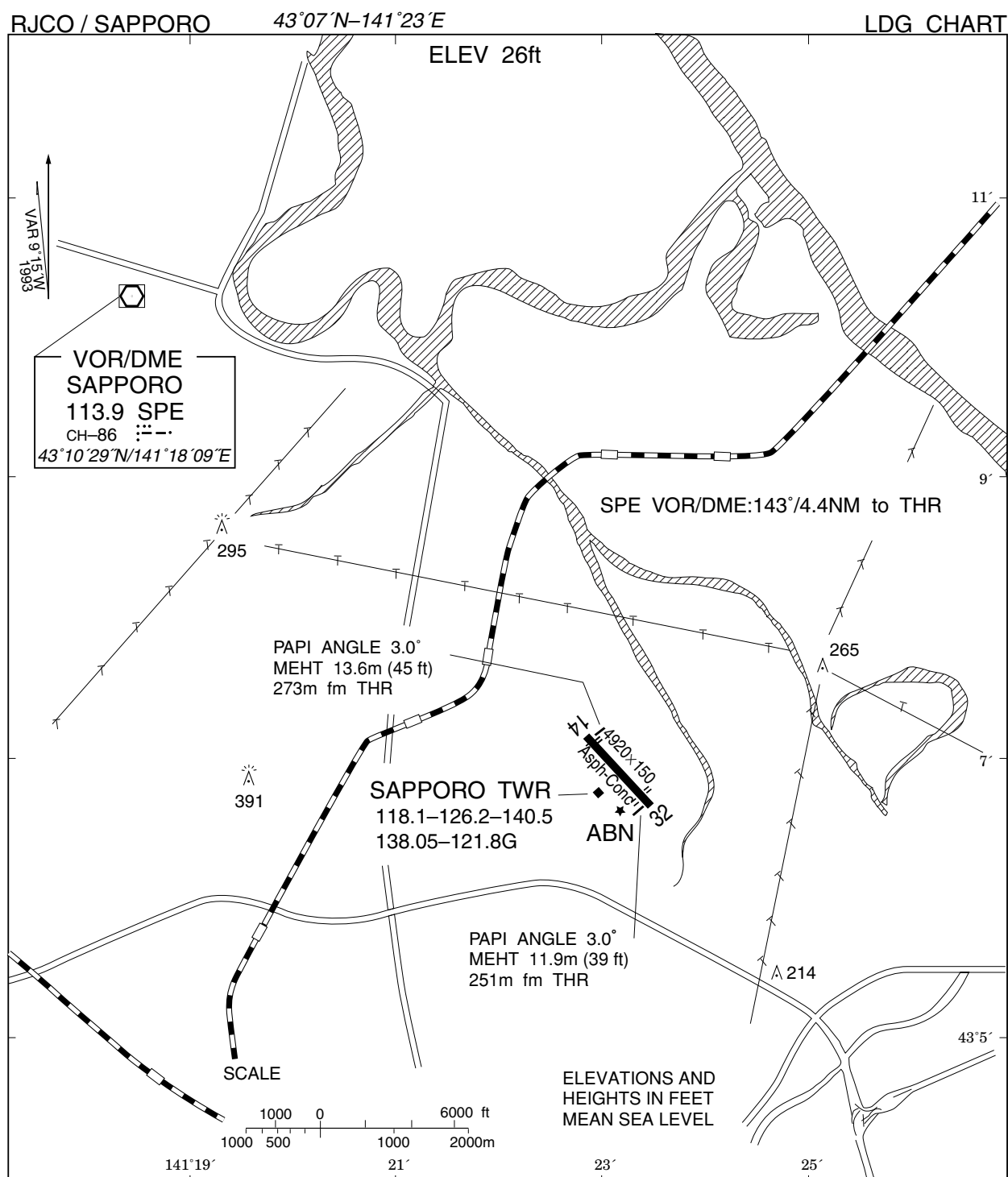
FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+00394
SBAS service provider identifier	2	FPAP Latitude	430724.3050N
Airport identifier	RJCO	FPAP Longitude	1412223.0240E
Runway	32	Threshold crossing height	00015.0
Approach performance designator	0	TCH units selector	1
Route indicator		Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M32A	∠ length offset	0192
LTP/FTP latitude	430645.5665N	HAL	40.00
LTP/FTP longitude	1412316.1770E	VAL	50.00
CRC remainder	56210C49		

Required additional data

LTP/FTP orthometric height	7.7
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).



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Minimum Vectoring Altitude CHART

VAR 9°W (2013)

