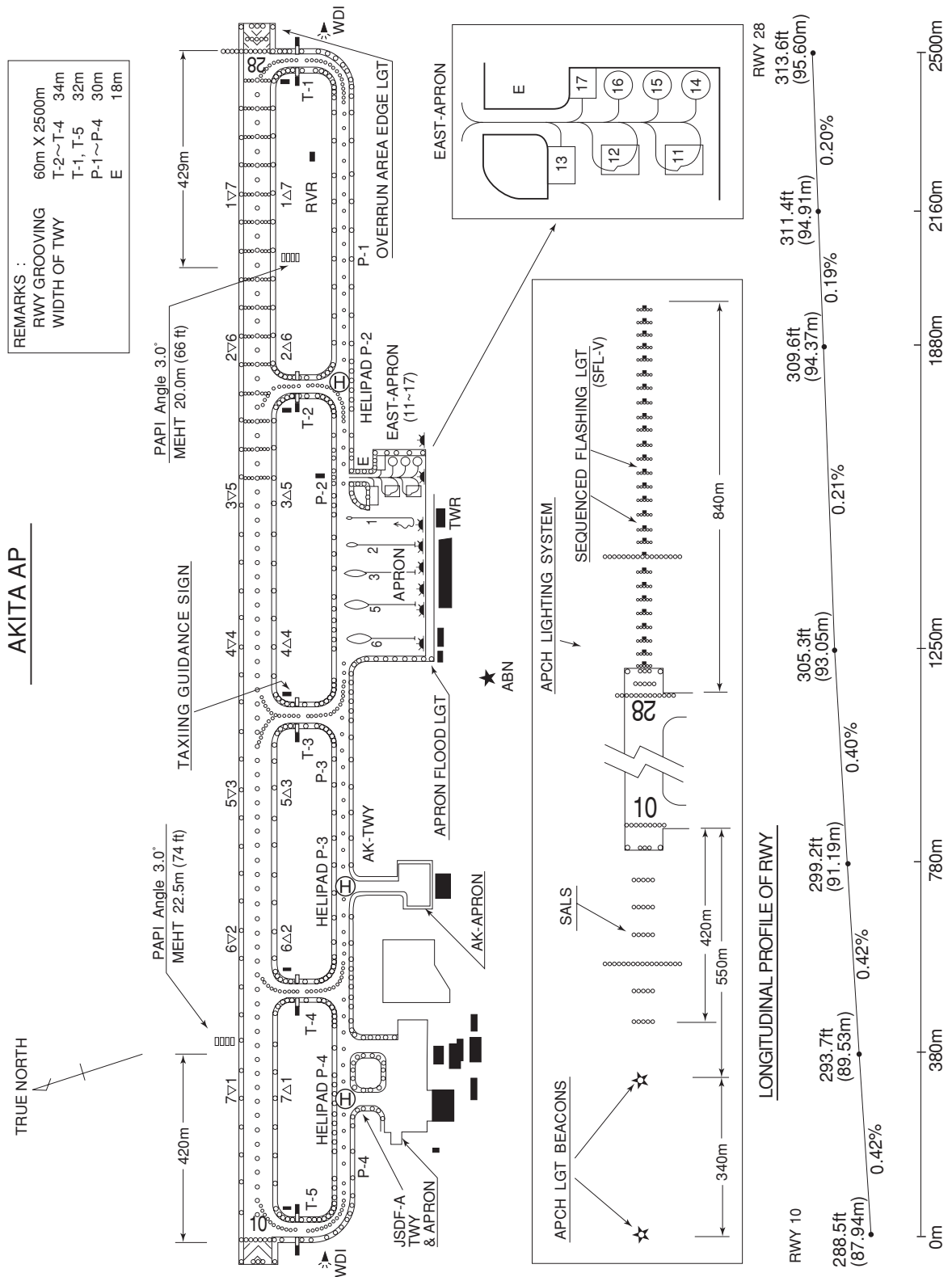


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AD CHART

CHANGE : Taxiing Guidance Sign for P2 installed



STANDARD DEPARTURE CHART -INSTRUMENT

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SID

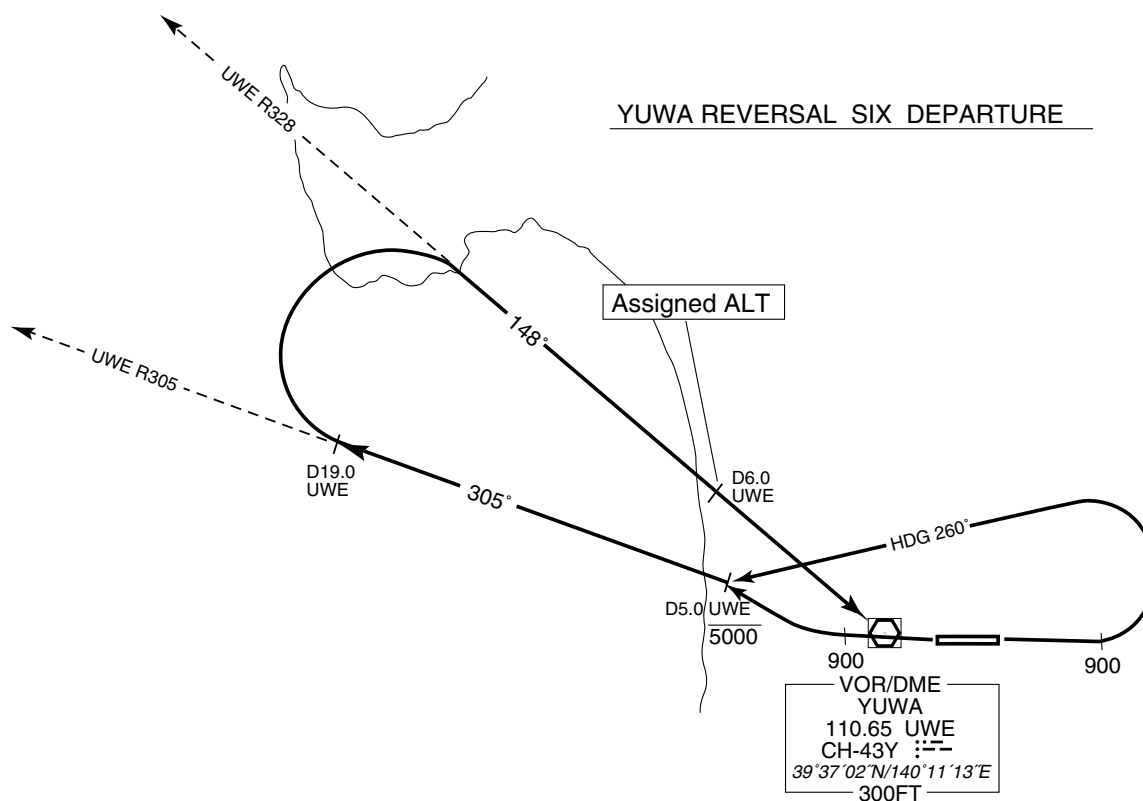
YUWA REVERSAL SIX DEPARTURE

RWY 10 : Climb RWY HDG to 900FT, turn left HDG260°...

RWY 28 : Climb RWY HDG to 900FT, turn right ...

...to intercept and proceed via UWE R305 to 19.0DME, turn right to intercept and proceed via UWE R328 to UWE VOR/DME.

Cross UWE R305/5.0DME at or below 5000FT, cross UWE R328/6.0DME at assigned altitude.



STANDARD DEPARTURE CHART -INSTRUMENT

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SID

MAGGY ONE DEPARTURE

- RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R028 to MAGGY.
RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R028 to MAGGY.

Note RWY10 : 5.0% climb gradient required up to 3300FT.
OBST ALT 3543FT located at 13.8NM 070° FM end of RWY10.

CHOKA ONE DEPARTURE

- RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R182 to CHOKA.
RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R182 to CHOKA.

YAYOI THREE DEPARTURE

- RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R215 to YAYOI.
RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R215 to YAYOI.

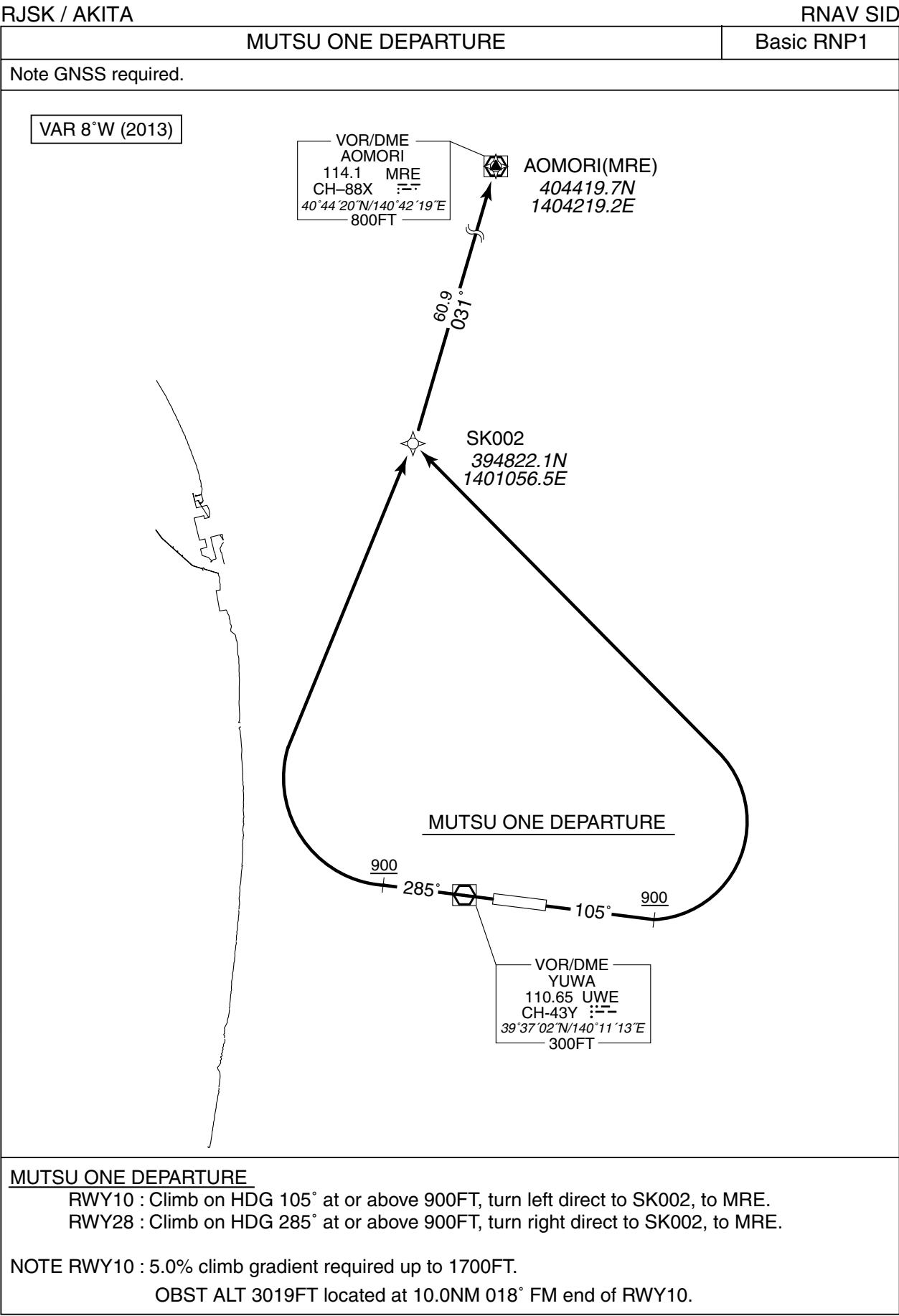
STANDARD DEPARTURE CHART -INSTRUMENT

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SID



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

MUTSU ONE DEPARTURE

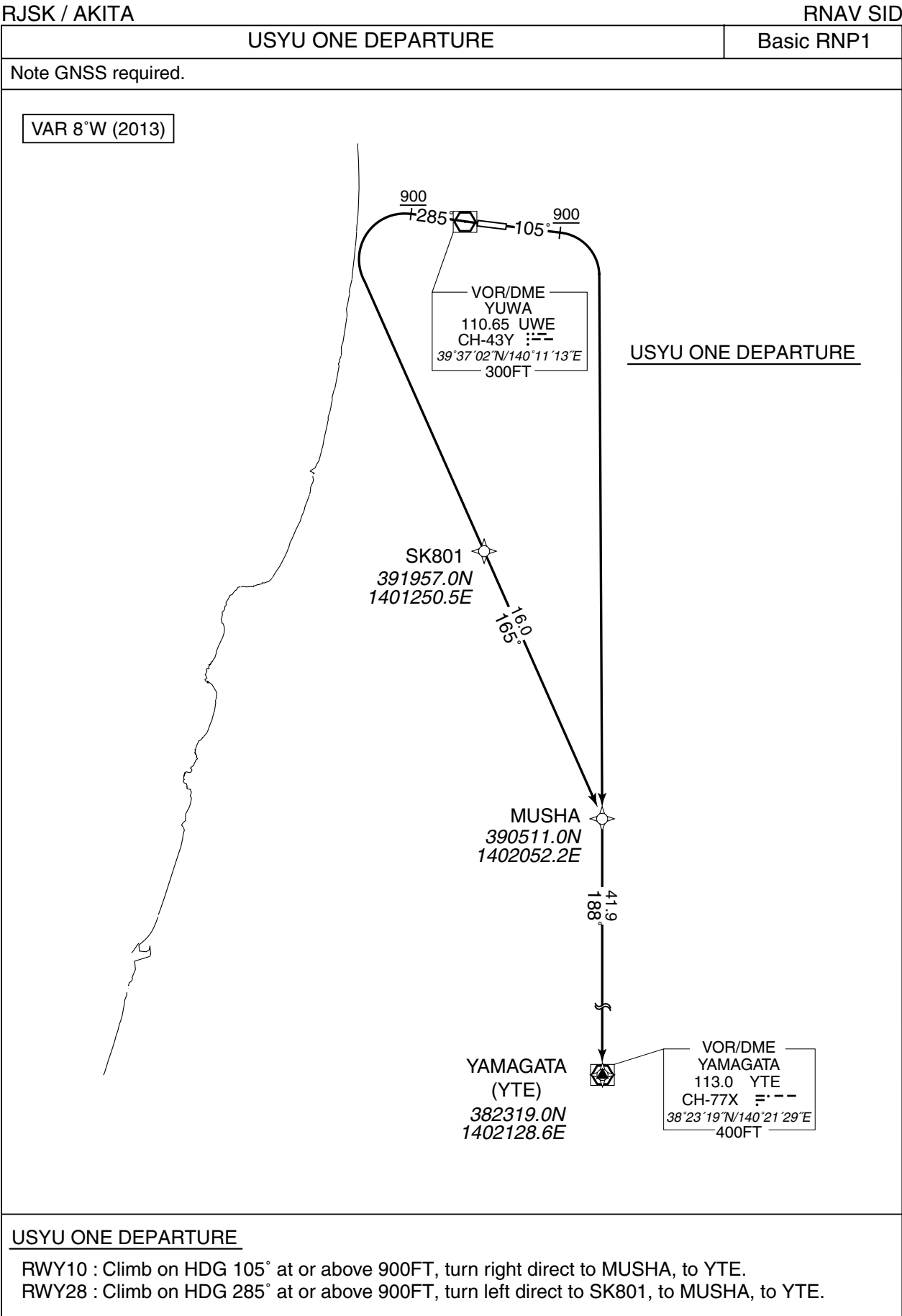
RWY10

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	—	—	105 (096.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.3	—	L	—	—	—	Basic RNP1
003	TF	MRE	—	031 (023.0)	-8.3	60.9	—	—	—	—	Basic RNP1

RWY28

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	—	—	285 (276.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.3	—	R	—	—	—	Basic RNP1
003	TF	MRE	—	031 (023.0)	-8.3	60.9	—	—	—	—	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

USYU ONE DEPARTURE

RWY10

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	—	—	105 (096.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	MUSHA	—	—	-8.3	—	R	—	—	—	Basic RNP1
003	TF	YTE	—	188 (179.3)	-8.3	41.9	—	—	—	—	Basic RNP1

RWY28

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	—	—	285 (276.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK801	—	—	-8.3	—	L	—	—	—	Basic RNP1
003	TF	MUSHA	—	165 (157.1)	-8.3	16.0	—	—	—	—	Basic RNP1
004	TF	YTE	—	188 (179.3)	-8.3	41.9	—	—	—	—	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT

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➡ RNAV SID



STANDARD DEPARTURE CHART -INSTRUMENT

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➔ RNAV SID

NIIGATA ONE DEPARTURE

RWY10

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	—	—	105 (096.6)	-8.6	—	—	+900	—	—	Basic RNP1
002	DF	SK011	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	SK012	—	195 (186.7)	-8.6	4.5	—	—	—	—	Basic RNP1
004	TF	TARAA	—	242 (233.5)	-8.6	33.4	—	—	—	—	Basic RNP1
005	TF	GTC	—	212 (203.0)	-8.6	80.5	—	—	—	—	Basic RNP1

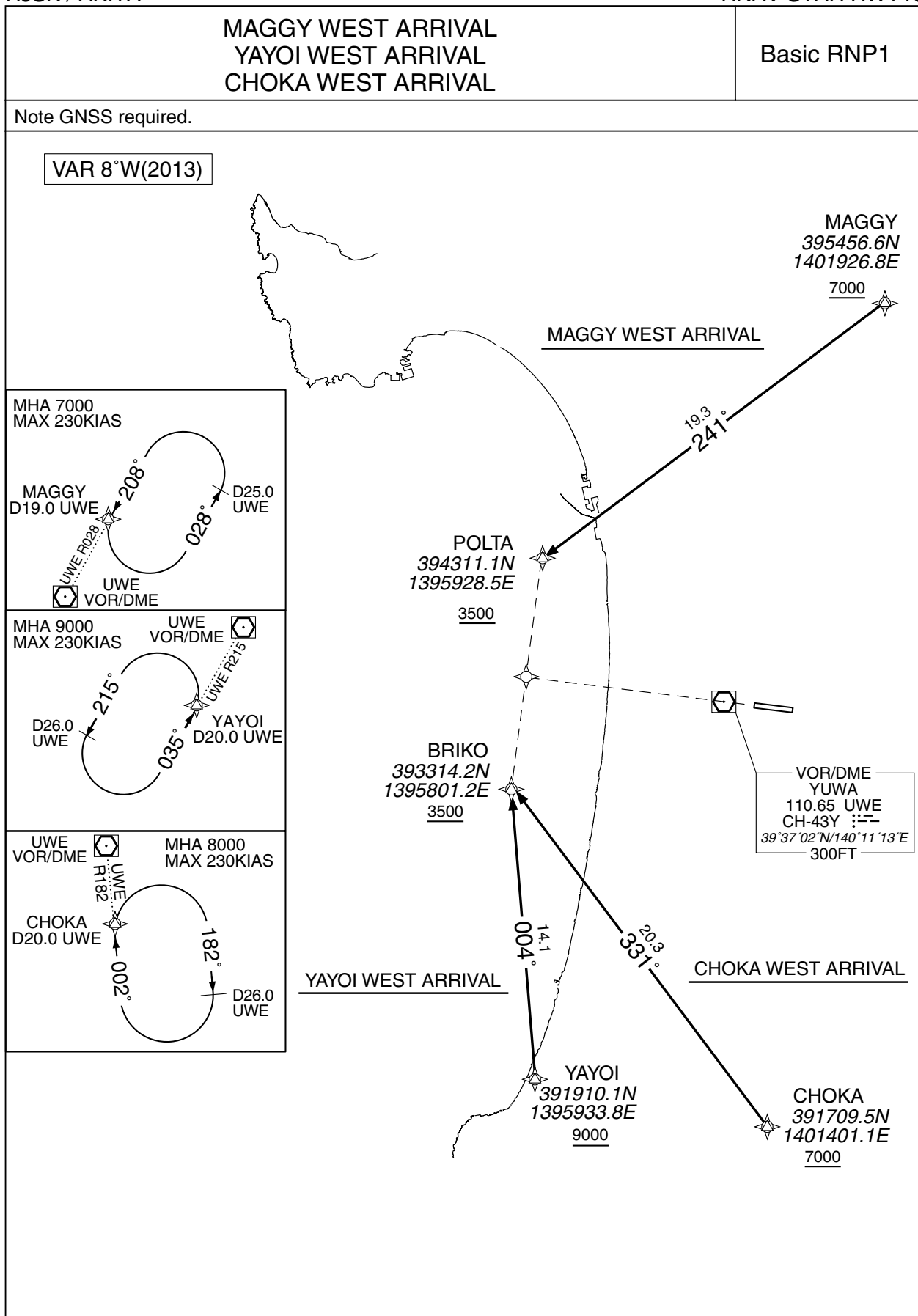
RWY28

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	—	—	285 (276.6)	-8.6	—	—	+900	—	—	Basic RNP1
002	DF	TARAA	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	GTC	—	212 (203.0)	-8.6	80.5	—	—	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY10



STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY10

MAGGY WEST ARRIVAL

From MAGGY at or above 7000FT, to POLTA at or above 3500FT.

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	MAGGY	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	POLTA	—	241 (232.6)	-8.3	19.3	—	+3500	—	—	Basic RNP1

YAYOI WEST ARRIVAL

From YAYOI at or above 9000FT, to BRIKO at or above 3500FT.

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	YAYOI	—	—	-8.3	—	—	+9000	—	—	Basic RNP1
002	TF	BRIKO	—	004 (355.2)	-8.3	14.1	—	+3500	—	—	Basic RNP1

CHOKA WEST ARRIVAL

From CHOKA at or above 7000FT, to BRIKO at or above 3500FT.

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	CHOKA	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	BRIKO	—	331 (322.5)	-8.3	20.3	—	+3500	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

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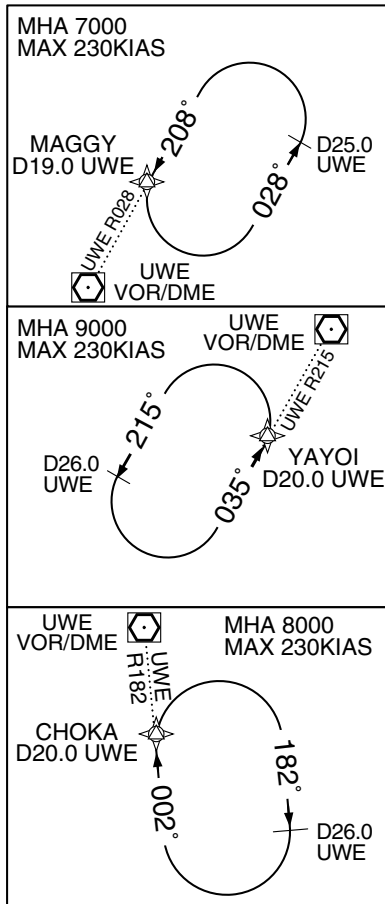
RNAV STAR RWY28

MAGGY EAST ARRIVAL
YAYOI EAST ARRIVAL
CHOKA EAST ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W(2013)



MAGGY EAST ARRIVAL

MAGGY
395456.6N
1401926.8E
7000

GAKKO
394338.9N
1402411.8E
5000

BIJIN
393052.6N
1402425.6E
4200

YAYOI EAST ARRIVAL

YAYOI
391910.1N
1395933.8E
9000

CHOKA EAST ARRIVAL

CHOKA
391709.5N
1401401.1E
7000

VOR/DME
YUWA
110.65 UWE
CH-43Y
39°37'02"N/140°11'13"E
300FT

STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY28

MAGGY EAST ARRIVAL

From MAGGY at or above 7000FT, to GAKKO at or above 5000FT.

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	MAGGY	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	GAKKO	—	170 (162.1)	-8.3	11.9	—	+5000	—	—	Basic RNP1

YAYOI EAST ARRIVAL

From YAYOI at or above 9000FT, to BIJIN at or above 4200FT.

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	YAYOI	—	—	-8.3	—	—	+9000	—	—	Basic RNP1
002	TF	BIJIN	—	067 (058.5)	-8.3	22.5	—	+4200	—	—	Basic RNP1

CHOKA EAST ARRIVAL

From CHOKA at or above 7000FT, to BIJIN at or above 4200FT.

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	CHOKA	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	BIJIN	—	039 (030.3)	-8.3	15.9	—	+4200	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

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STAR

KOANI ARRIVAL

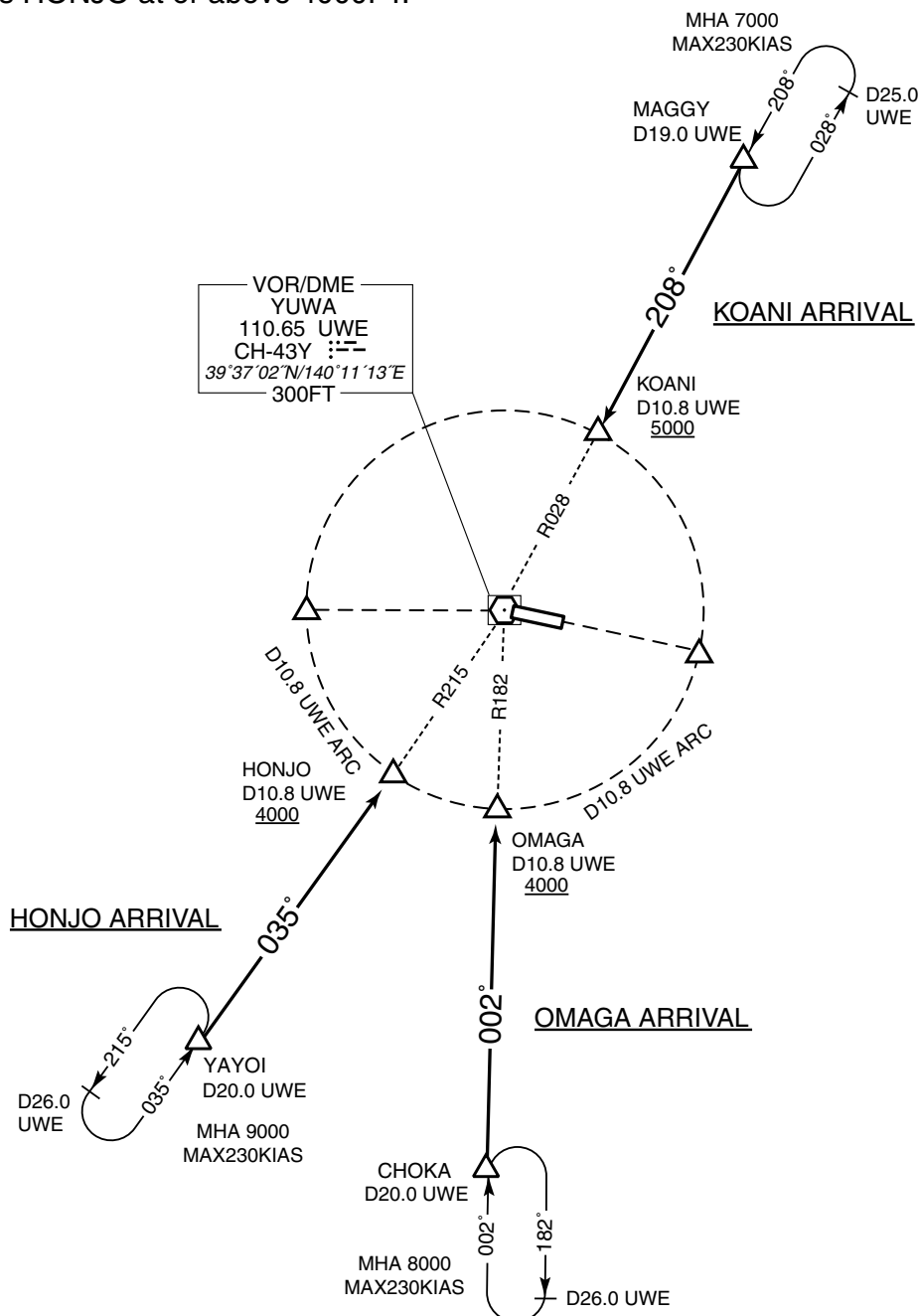
From over MAGGY, via UWE R028 to KOANI.
Cross KOANI at or above 5000FT.

OMAGA ARRIVAL

From over CHOKA, via UWE R182 to OMAGA.
Cross OMAGA at or above 4000FT.

HONJO ARRIVAL

From over YAYOI, via UWE R215 to HONJO.
Cross HONJO at or above 4000FT.



INSTRUMENT APPROACH CHART

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ILS Z or LOC Z RWY28



MISSED APPROACH

Climb to 800FT on HDG285°,
 via UWE R286 to UWE 4.8DME,
 turn right, direct to UWE
 VOR/DME and hold at 4000FT.
 Contact AKITA TOWER.

Timing not authorized for defining the MAPt.



DME to IUW	0.2	0.7	1.7	3.7	6.1	7.2	8.9
NM to THR	0	0.5	1.5	3.5	5.9	7.0	8.7

MINIMA

THR elev. 314

AD elev. 305

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	514 (200)	550	810 (505)	1000	830 (525)	1600
B				1200		
C				1600	900 (595)	2400
D						

INSTRUMENT APPROACH CHART

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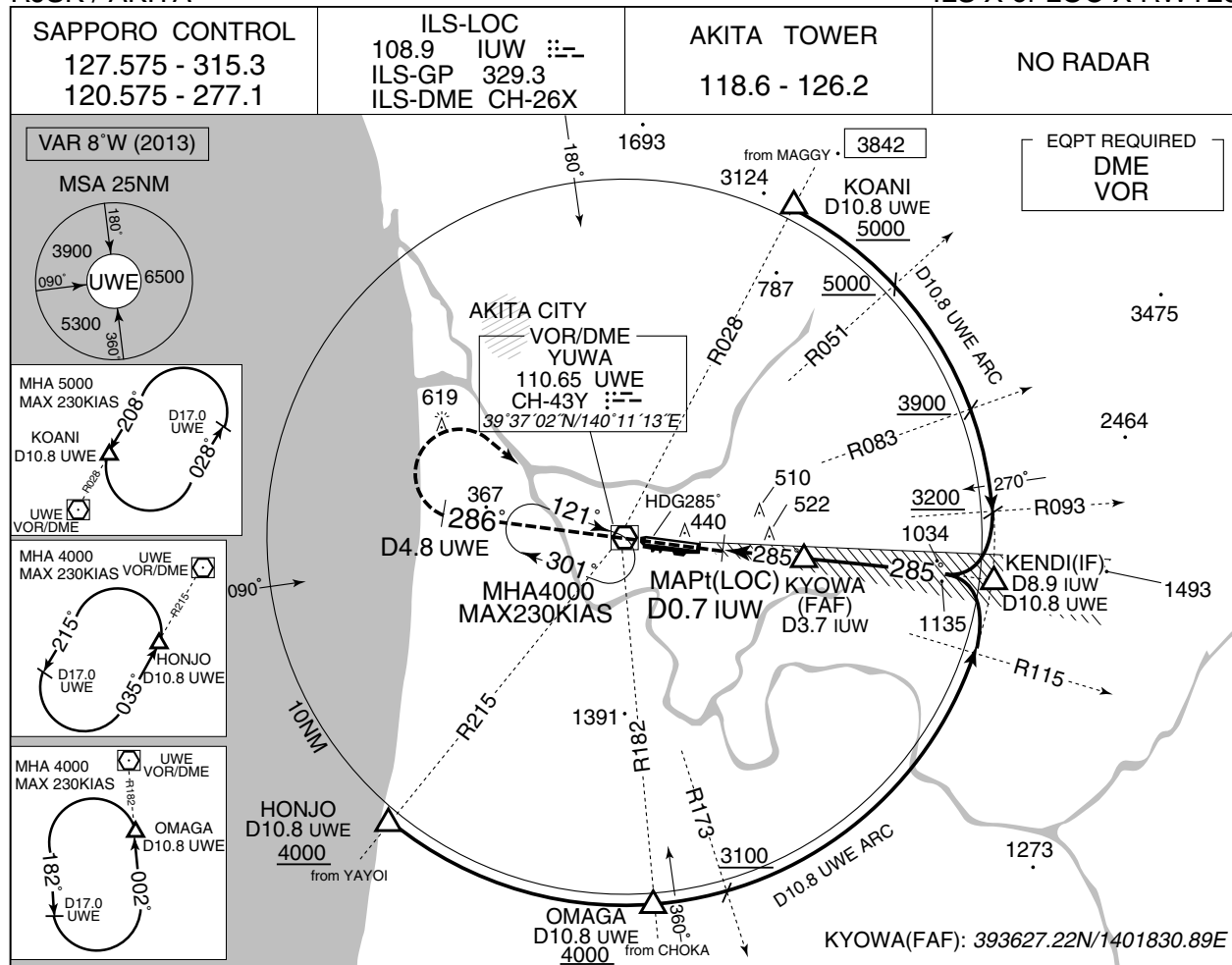
ILS Y or LOC Y RWY28



INSTRUMENT APPROACH CHART

RJSK / AKITA

ILS X or LOC X RWY28

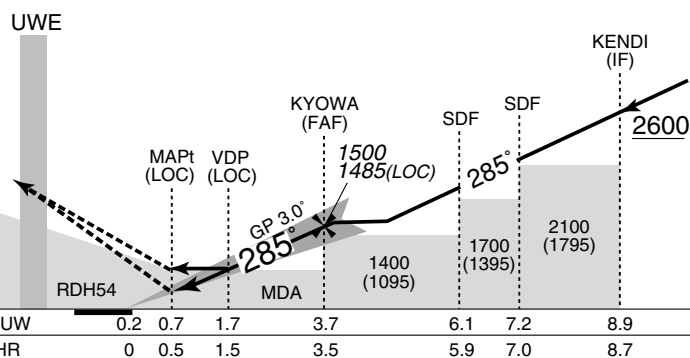


NM to IUW	MAPt	2	3	FAF
ALT (3.0° APCH Path)	—	940	1258	1485

MISSED APPROACH

Climb to 800FT on HDG285°,
via UWE R286 to UWE 4.8DME,
turn right, direct to UWE
VOR/DME and hold at 4000FT.
Contact AKITA TOWER.

Timing not authorized for defining the MAPt.



MINIMA		THR elev. 314		AD elev. 305		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	514 (200)	550	810 (505)	1000	830 (525)	1600
B				1200		
C					900 (595)	2400
D				1600		3200

INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR RWY28



INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Z RWY10



INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Y RWY10



INSTRUMENT APPROACH CHART

RJSK / AKITA

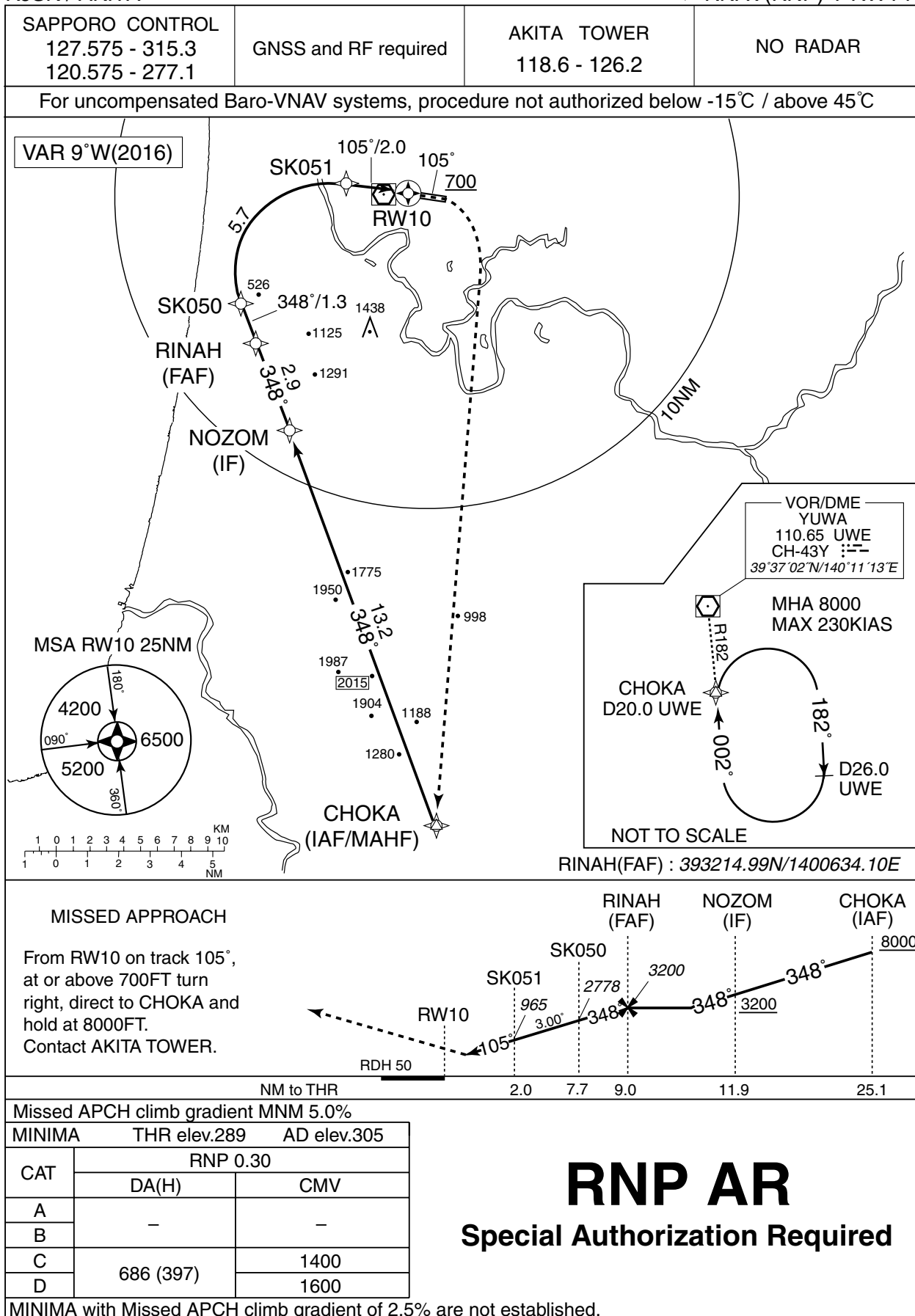
RNAV(GNSS) Z RWY10



INSTRUMENT APPROACH CHART

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➔ RNAV(RNP) Y RWY10



INSTRUMENT APPROACH CHART

RJSK / AKITA

➡ RNAV(RNP) Y RWY10

RNAV(RNP) Y RWY10Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH ('/FT)	RNP Value
001	IF	CHOKA	—	—	-8.6	—	—	+8000	—	—	—
002	TF	NOZOM	—	348 (339.2)	-8.6	13.2	—	+3200	—	—	1.0
003	TF	RINAH	—	348 (339.1)	-8.6	2.9	—	3200	—	—	1.0
004	TF	SK050	—	348 (339.1)	-8.6	1.3	—	2778	—	-3.00	0.3
005	RF Center: SKRF1 r=2.78	SK051	—	—	-8.6	5.7	R	965	—	-3.00	0.3
006	TF	RW10	Y	105 (096.6)	-8.6	2.0	—	339	—	-3.00/50	0.3
007	FA	—	—	105 (096.6)	-8.6	—	—	+700	—	—	1.0
008	DF	CHOKA	—	—	-8.6	—	R	8000	—	—	1.0

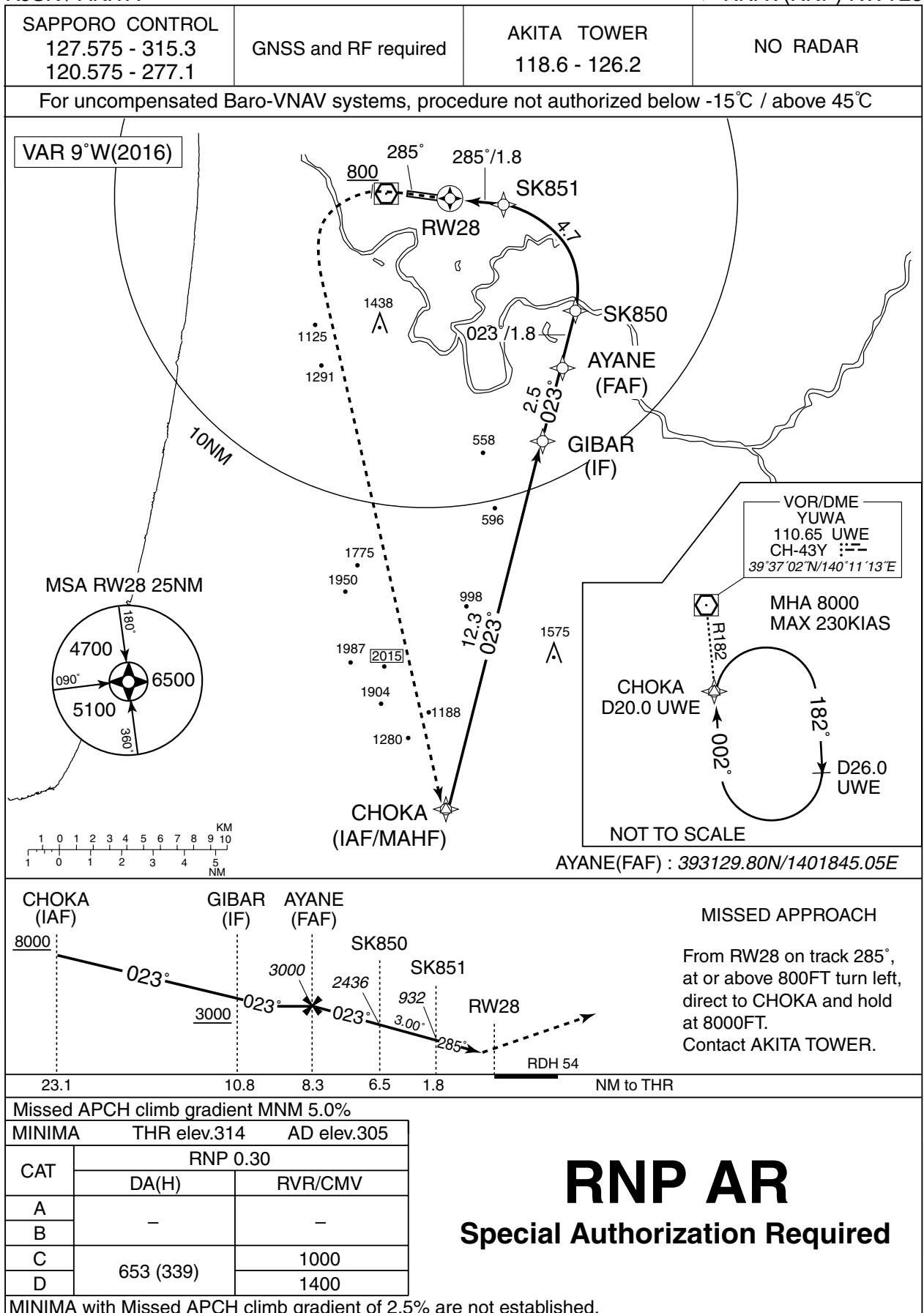
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CHOKA	391709.51N/1401401.06E	SKRF1	393428.91N/1400918.43E
NOZOM	392931.83N/1400754.90E		
RINAH	393214.99N/1400634.10E		
SK050	393329.21N/1400557.30E		
SK051	393714.55N/1400943.07E		
RW10	393700.98N/1401215.14E		

INSTRUMENT APPROACH CHART

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➔ RNAV(RNP) RWY28



INSTRUMENT APPROACH CHART

RJSK / AKITA

➔ RNAV(RNP) RWY28

RNAV(RNP) RWY28Coding Table

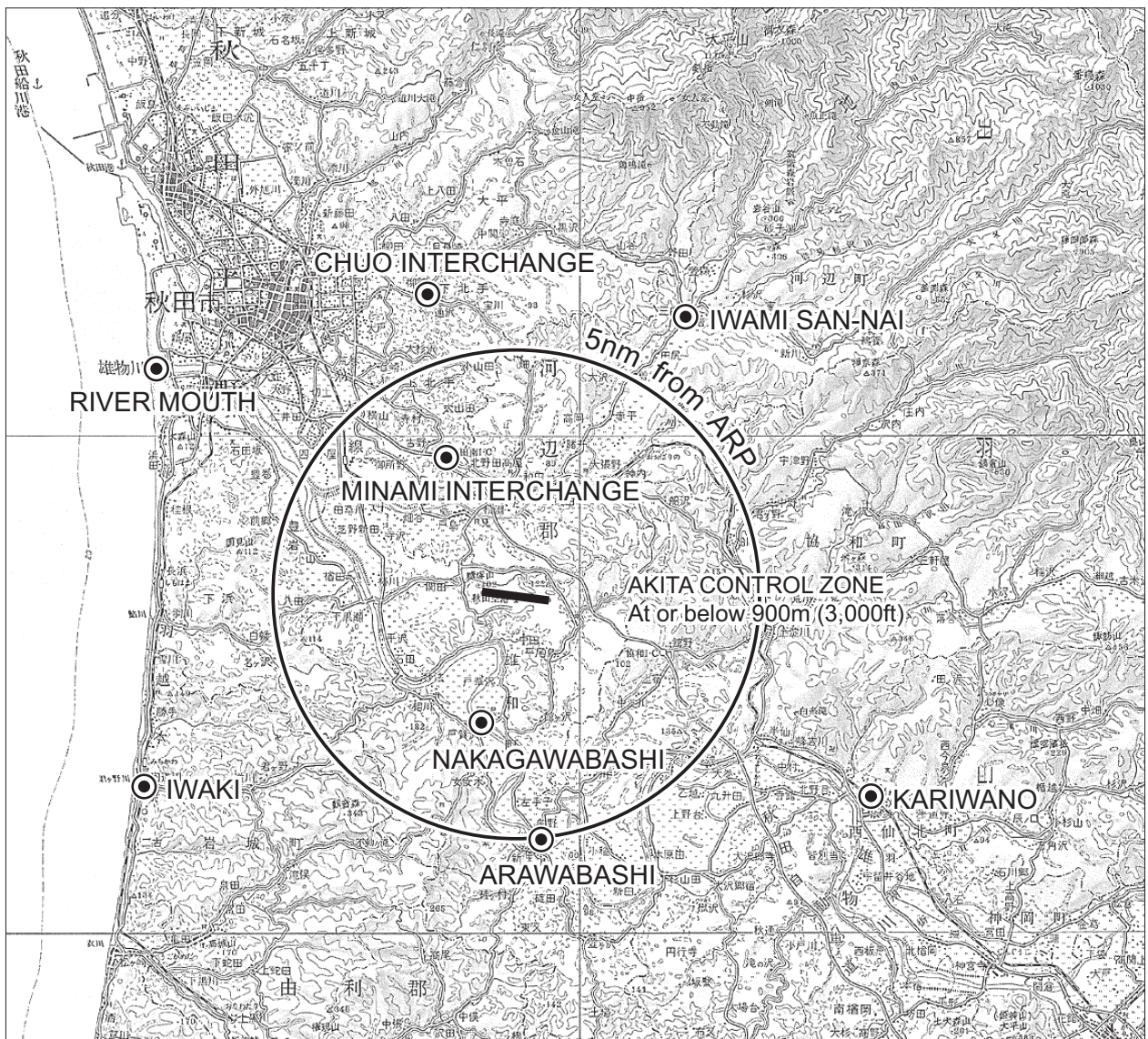
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	CHOKA	—	—	-8.6	—	—	+8000	—	—	—
002	TF	GIBAR	—	023 (014.3)	-8.6	12.3	—	+3000	—	—	1.0
003	TF	AYANE	—	023 (014.3)	-8.6	2.5	—	3000	—	—	1.0
004	TF	SK850	—	023 (014.3)	-8.6	1.8	—	2436	—	-3.00	0.3
005	RF Center: SKRF2 r=2.77	SK851	—	—	-8.6	4.7	L	932	—	-3.00	0.3
006	TF	RW28	Y	285 (276.7)	-8.6	1.8	—	368	—	-3.00/54	0.3
007	FA	—	—	285 (276.7)	-8.6	—	—	+800	—	—	1.0
008	DF	CHOKA	—	—	-8.6	—	L	8000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CHOKA	391709.51N/1401401.06E	SKRF2	393354.17N/1401551.05E
GIBAR	392905.47N/1401757.27E		
AYANE	393129.80N/1401845.05E		
SK850	393312.87N/1401919.21E		
SK851	393639.39N/1401615.88E		
RW28	393651.66N/1401359.25E		

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Visual REP



Call sign	BRG / DIST from ARP	Remarks
岩見三内 Iwami San-nai	038°/ 6.5NM	岩見川と三内川の合流点 Merging point of Iwamigawa River and San-naigawa River
刈和野 Kariwano	127°/ 8.2NM	JR刈和野駅 JR Kariwano Station
新波橋 Arawabashi	182°/ 5.0NM	新波橋 (雄物川) Arawabashi
中川橋 Nakagawabashi	205°/ 2.6NM	中川橋 (雄物川) Nakagawabashi
岩城 Iwaki	252°/ 8.5NM	道の駅岩城 Michinoeki (Road Station) Iwaki
リバーマウス River Mouth	310°/ 8.7NM	雄物川河口 Omonogawa River Mouth
南インターチェンジ Minami Interchange	340°/ 3.1NM	秋田南インターチェンジ (秋田自動車道) Akita Minami Interchange
中央インターチェンジ Chuo Interchange	352°/ 6.6NM	秋田中央インターチェンジ (秋田自動車道) Akita Chuo Interchange

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Minimum Vectoring Altitude CHART

VAR 8°W (2013)



CENTER : 393702N/1401113E (UWE VOR/DME)