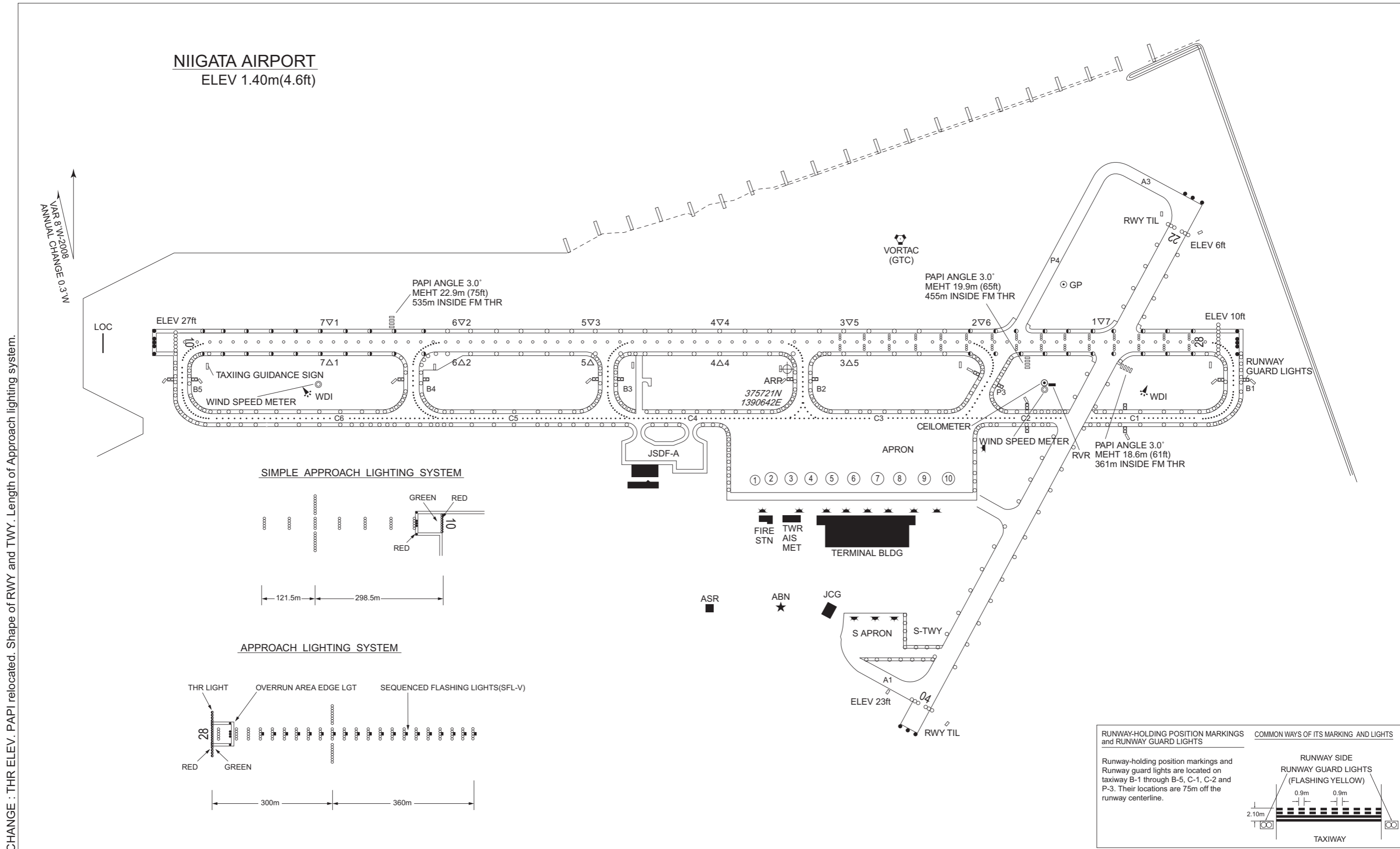
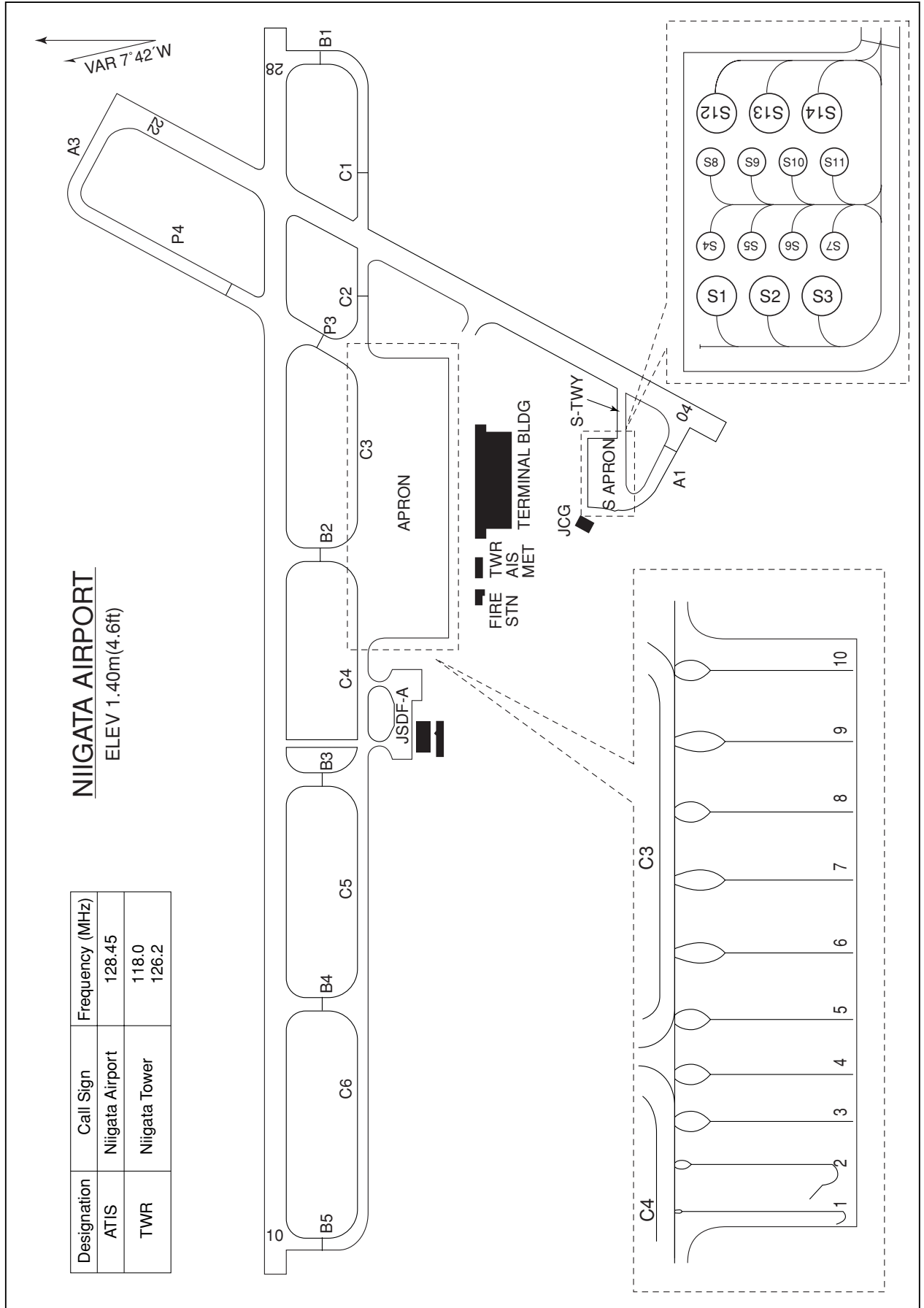


AERODROME CHART



RJSN / NIIGATA

AD CHART

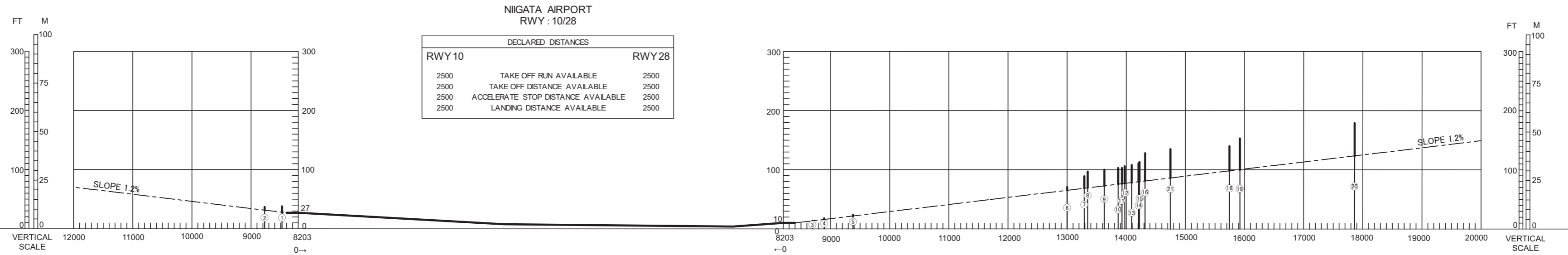


Designation	Call Sign	Frequency (MHz)
ATIS	Niigata Airport	128.45
TWR	Niigata Tower	118.0 126.2

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

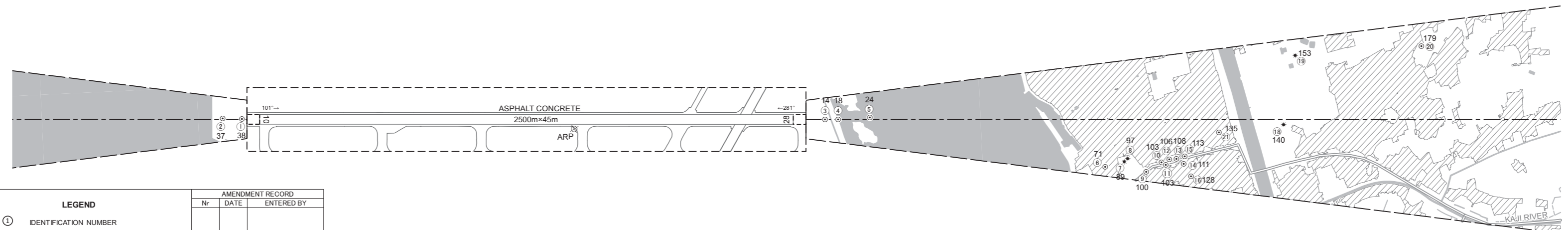
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 9°W - DEC 2022

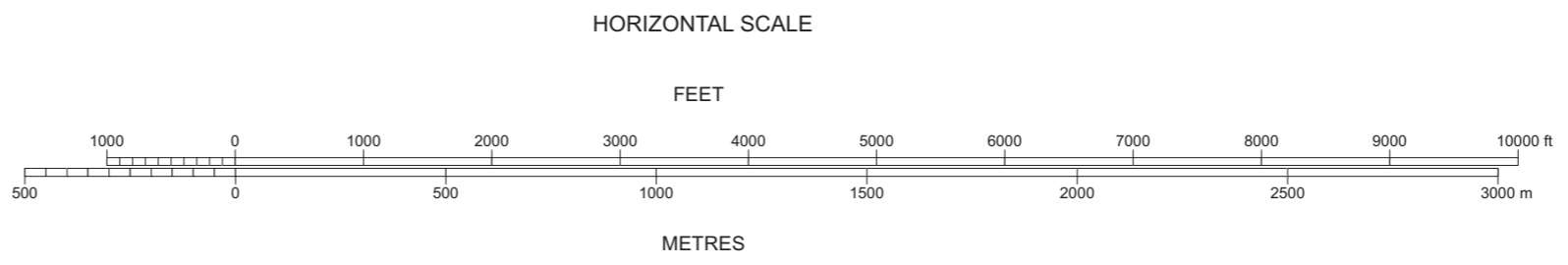


NIIGATA AIRPORT
RWY : 10/28

DECLARED DISTANCES		
RWY 10		RWY 28
2500	TAKE OFF RUN AVAILABLE	2500
2500	TAKE OFF DISTANCE AVAILABLE	2500
2500	ACCELERATE STOP DISTANCE AVAILABLE	2500
2500	LANDING DISTANCE AVAILABLE	2500



LEGEND		AMENDMENT RECORD		
		Nr	DATE	ENTERED BY
①	IDENTIFICATION NUMBER			
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC			
*	TREE			
—+—+—	RAILROAD			
—~—~—	RIVER			
△	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			
■	BUILDING OR LARGE STRUCTURE			
⋯	CONTOURS(ft)			

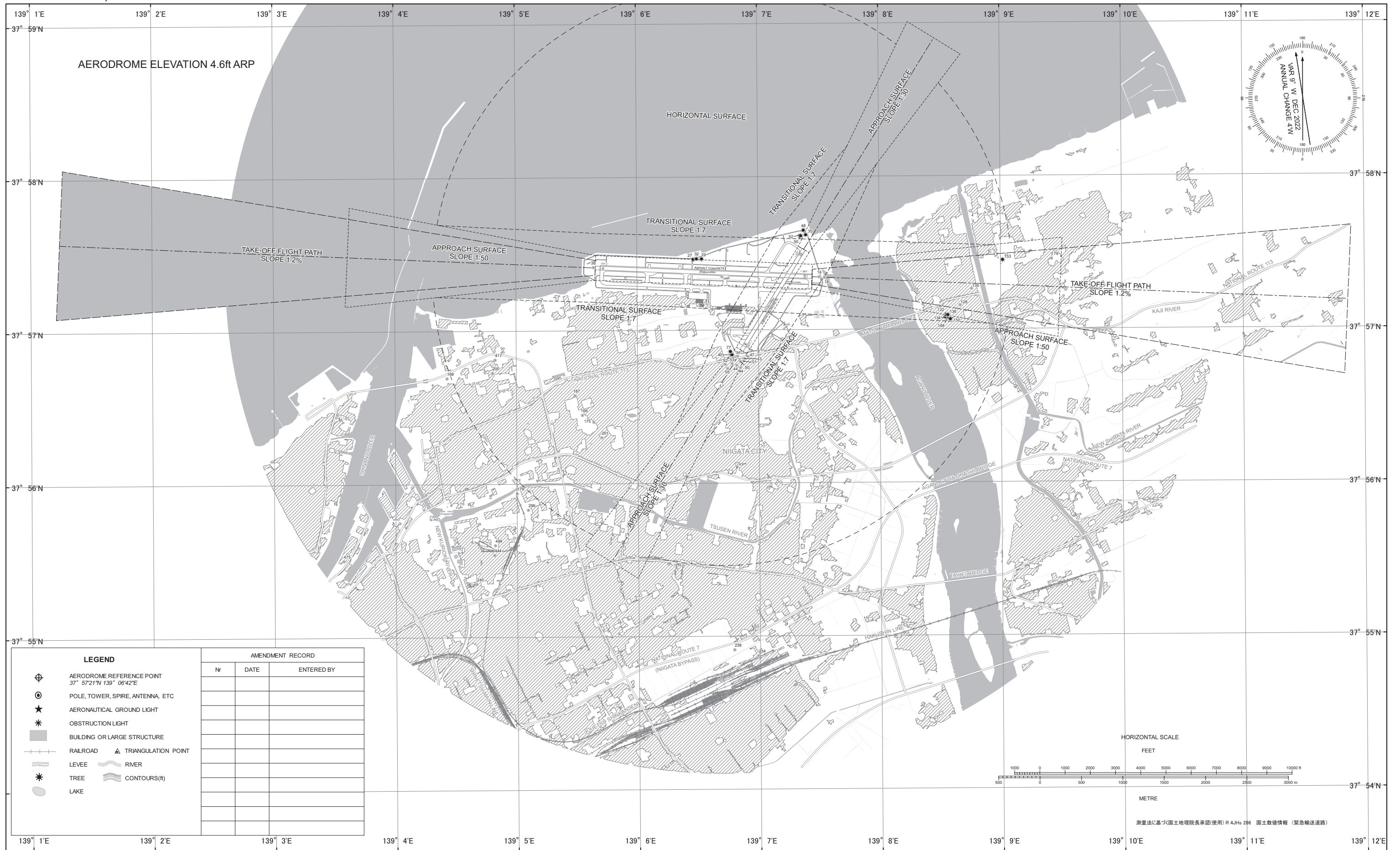


測量法に基づく国土地理院長承認(使用) R 4JHs 286 国土数値情報 (緊急輸送道路)

CHANGE: Update

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B



CHANGE:Update

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

SID

OKESA SEVEN DEPARTURE

- RWY 04 : Turn left HDG 245°...
- RWY 10 : Climb RWY HDG to 500FT, turn left HDG 245°...
- RWY 22 : Climb RWY HDG to 800FT, turn left...
- RWY 28 : Climb RWY HDG to 500FT, turn right...
 ...to intercept and proceed via GTC R290 to OKESA.

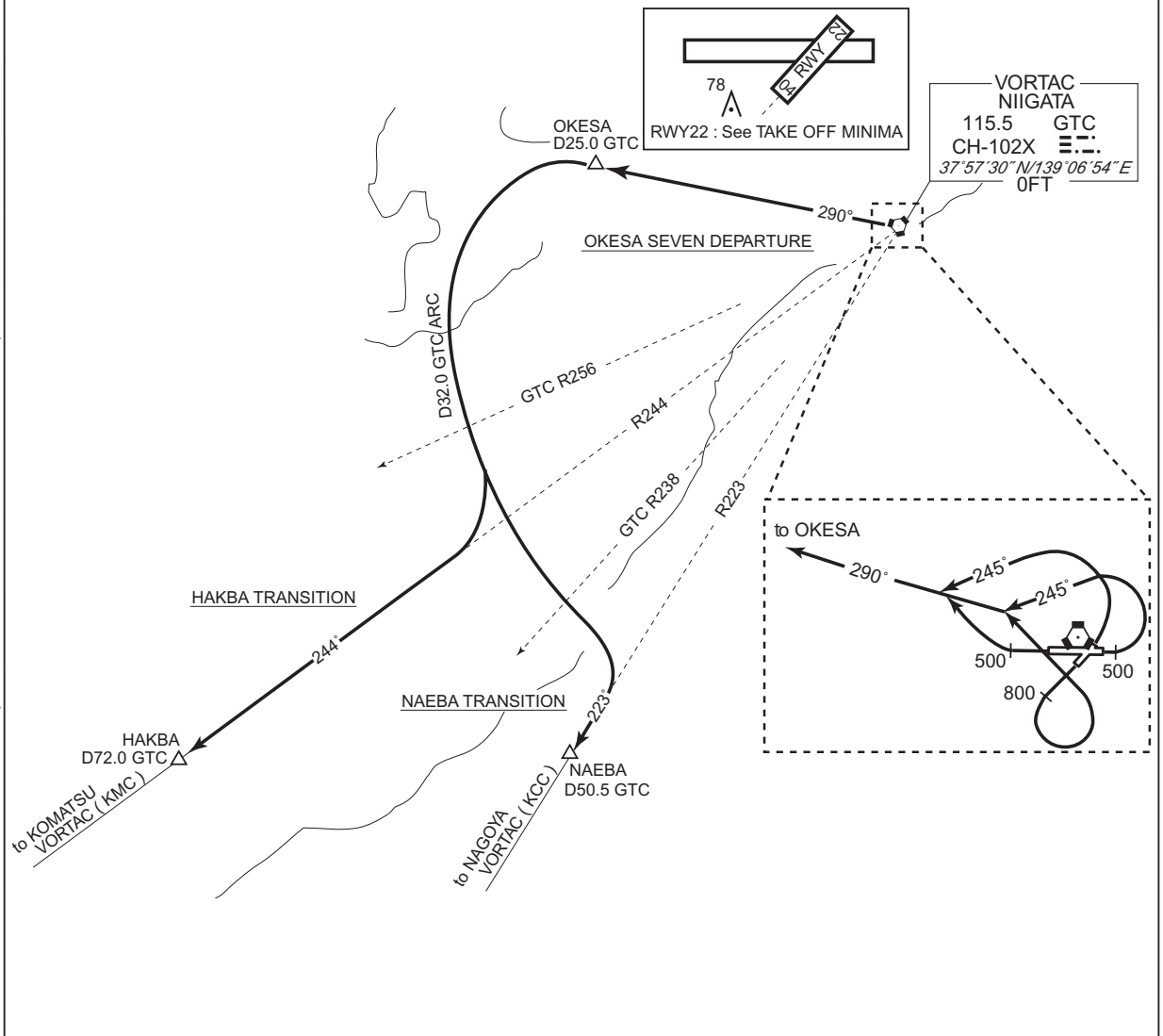
NAEBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R223 to NAEBA.

HAKBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R244 to HAKBA.

CHANGE : PROC renamed(OKESA SEVEN DEPARTURE). PROC course.



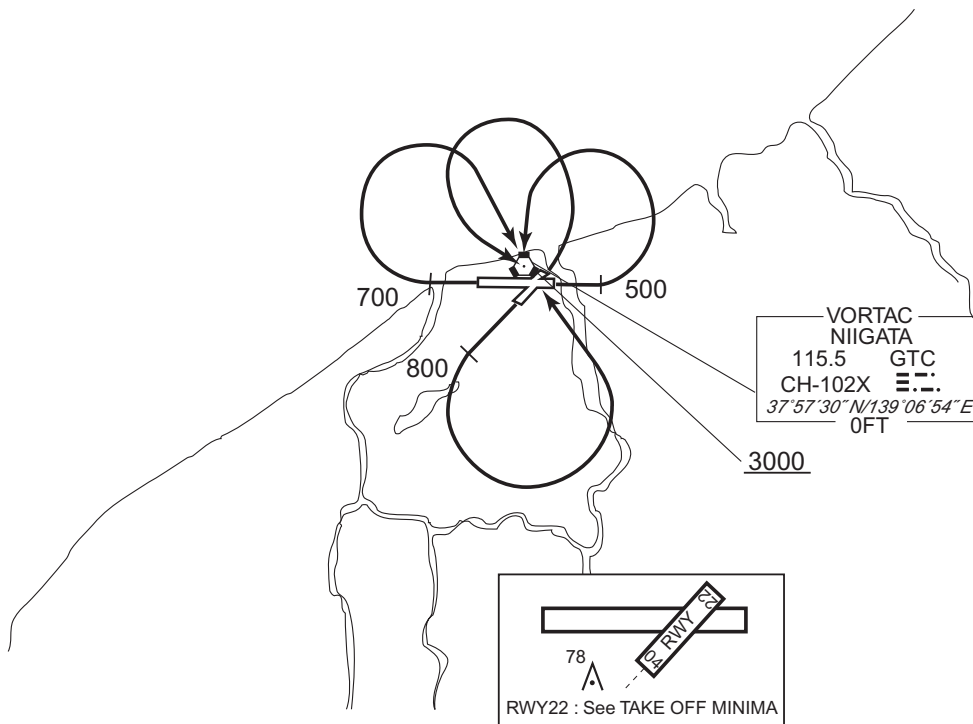
STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

SID

NIIGATA REVERSAL SEVEN DEPARTURE

- RWY 04 : Turn left...
- RWY 10 : Climb RWY HDG to 500FT, turn left...
- RWY 22 : Climb RWY HDG to 800FT, turn left...
- RWY 28 : Climb RWY HDG to 700FT, turn right...
...direct to GTC VORTAC.
Cross GTC VORTAC at or above 3000FT.



CHANGE : PROC renamed. ALT restriction.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

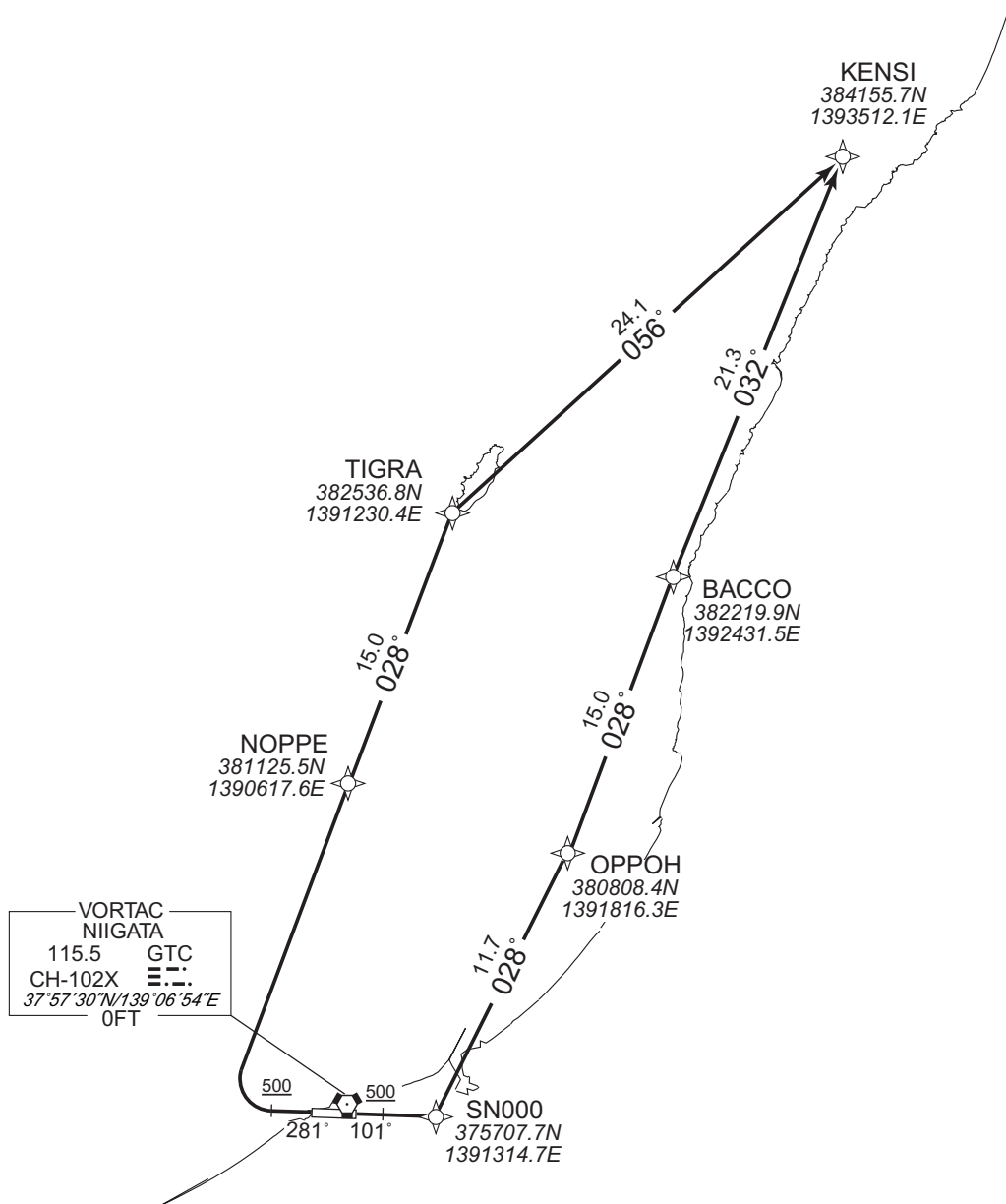
SASAGA THREE DEPARTURE

RNP1

Note GNSS required.

VAR 9°W

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



RWY10 : Climb on HDG101° at or above 500FT, direct to SN000, to OPPOH, to BACCO, to KENSI.
 RWY28 : Climb on HDG281° at or above 500FT, turn right direct to NOPEN, to TIGRA, to KENSI.

NOTE RWY10 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

SASAGA THREE 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	-	-	101 (092.7)	-8.6	-	-	+500	-	-	RNP1
002	DF	SN000	-	-	-8.6	-	-	-	-	-	RNP1
003	TF	OPPOH	-	028 (019.7)	-8.6	11.7	-	-	-	-	RNP1
004	TF	BACCO	-	028 (019.1)	-8.6	15.0	-	-	-	-	RNP1
005	TF	KENSI	-	032 (023.0)	-8.6	21.3	-	-	-	-	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	-	-	281 (272.7)	-8.6	-	-	+500	-	-	RNP1
002	DF	NOPPE	-	-	-8.6	-	R	-	-	-	RNP1
003	TF	TIGRA	-	028 (018.9)	-8.6	15.0	-	-	-	-	RNP1
004	TF	KENSI	-	056 (047.3)	-8.6	24.1	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

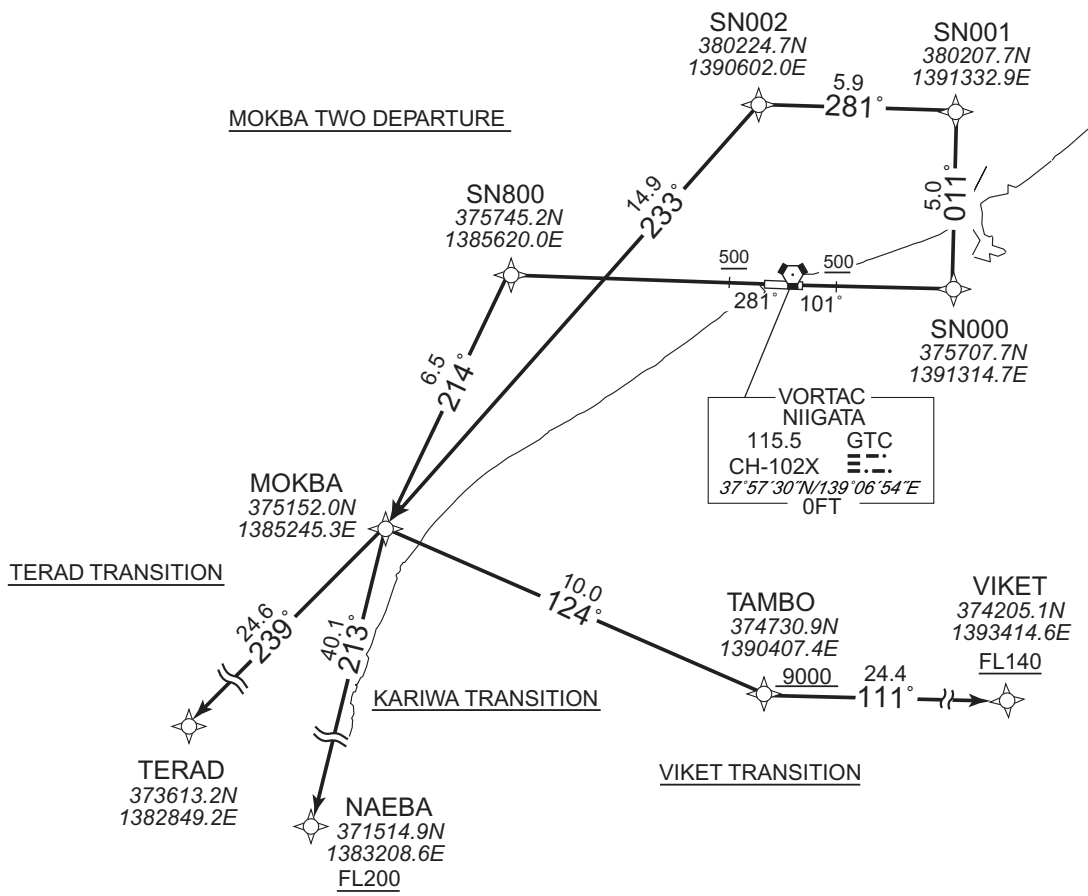
RJSN / NIIGATA

RNAV SID and TRANSITION

MOKBA TWO DEPARTURE KARIWA TRANSITION / TERAD TRANSITION / VIKET TRANSITION	RNP1
---	-------------

Note GNSS required.

VAR 9°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

MOKBA TWO DEPARTURE
 RWY10 : Climb on HDG101° at or above 500FT, direct to SN000, to SN001, to SN002, to MOKBA.
 RWY28 : Climb on HDG281° at or above 500FT, direct to SN800, to MOKBA.
 NOTE RWY10 : 5.0% climb gradient required up to 500FT.

KARIWA TRANSITION
 From MOKBA, to NAEBA at or above FL200.

TERAD TRANSITION
 From MOKBA, to TERAD.

VIKET TRANSITION
 From MOKBA, to TAMBO at or above 9000FT, to VIKET at or above FL140.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID and TRANSITION

MOKBA TWO 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	-	-	101 (092.7)	-8.6	-	-	+500	-	-	RNP1
002	DF	SN000	-	-	-8.6	-	-	-	-	-	RNP1
003	TF	SN001	-	011 (002.7)	-8.6	5.0	-	-	-	-	RNP1
004	TF	SN002	-	281 (272.8)	-8.6	5.9	-	-	-	-	RNP1
005	TF	MOKBA	-	233 (224.9)	-8.6	14.9	-	-	-	-	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	-	-	281 (272.7)	-8.6	-	-	+500	-	-	RNP1
002	DF	SN800	-	-	-8.6	-	-	-	-	-	RNP1
003	TF	MOKBA	-	214 (205.6)	-8.6	6.5	-	-	-	-	RNP1

KARIWA TRANSITION

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	MOKBA	-	-	-8.6	-	-	-	-	-	RNP1
002	TF	NAEBA	-	213 (204.2)	-8.6	40.1	-	+FL200	-	-	RNP1

TERAD TRANSITION

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	MOKBA	-	-	-8.6	-	-	-	-	-	RNP1
002	TF	TERAD	-	239 (230.5)	-8.6	24.6	-	-	-	-	RNP1

VIKET TRANSITION

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	MOKBA	-	-	-8.6	-	-	-	-	-	RNP1
002	TF	TAMBO	-	124 (115.8)	-8.6	10.0	-	+9000	-	-	RNP1
003	TF	VIKET	-	111 (102.7)	-8.6	24.4	-	+FL140	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

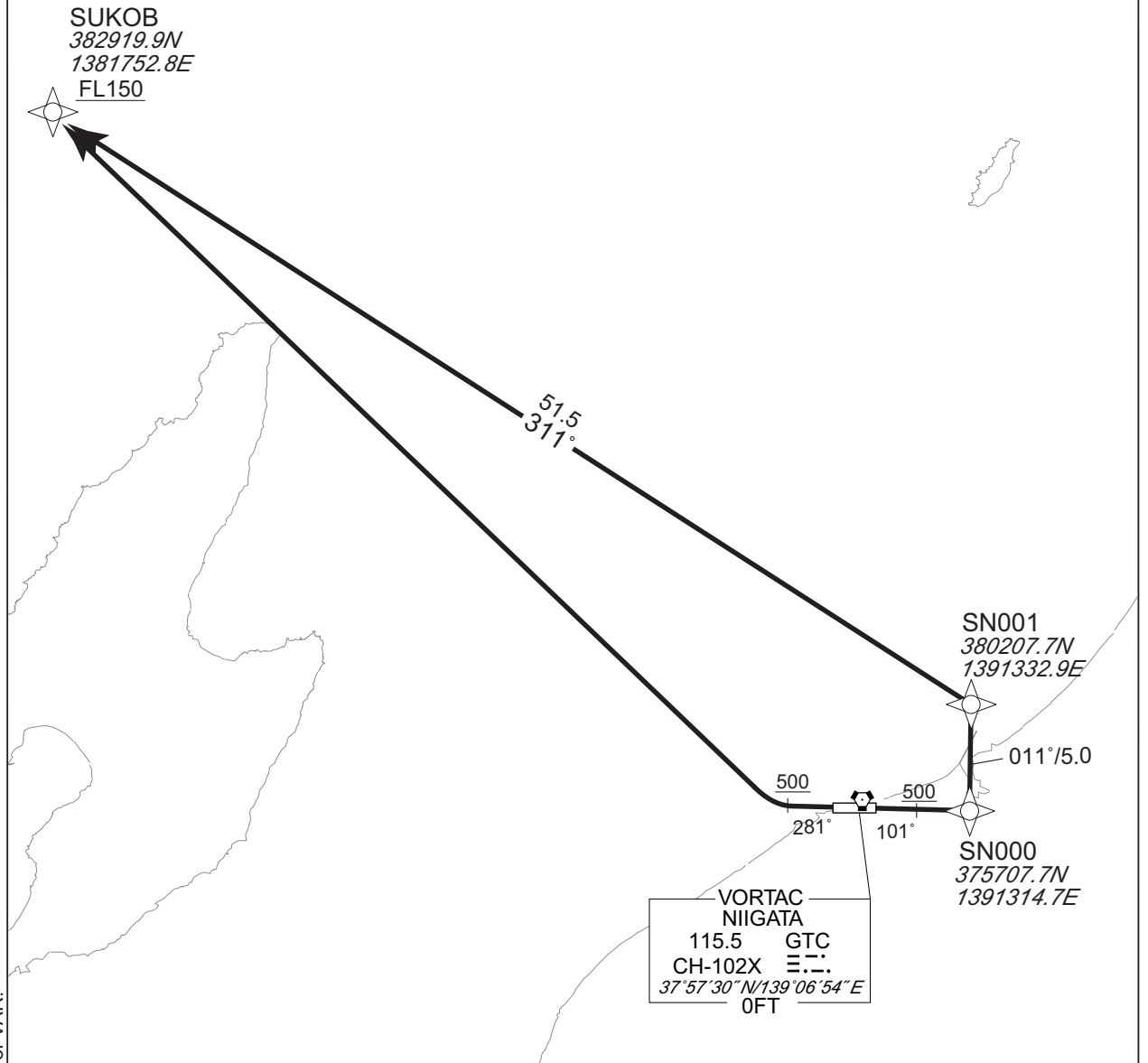
RNAV SID

SUKOB ONE DEPARTURE

RNAV 1

NOTE 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required.	Critical DME	RWY10 : GTC : 10.0NM to SUKOB - SUKOB NTE : 10.0NM to SUKOB - SUKOB RWY28 : GTC : 15.0NM to SUKOB - SUKOB NTE : 15.0NM to SUKOB - SUKOB
	DME GAP	RWY10 : DER - 10.0NM to SUKOB RWY28 : DER - 15.0NM to SUKOB
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1.

VAR 9°W



CHANGE : Description of VAR.

RWY10 : Climb on HDG101° at or above 500FT, direct to SN000, to SN001, to SUKOB at or above FL150.
 RWY28 : Climb on HDG281° at or above 500FT, turn right direct to SUKOB at or above FL150.
 Note RWY10 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN/ NIIGATA

RNAV SID

SUKOB 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	—	—	101 (092.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SN000	—	—	-8.6	—	—	—	—	—	RNAV1
003	TF	SN001	—	011 (002.7)	-8.6	5.0	—	—	—	—	RNAV1
004	TF	SUKOB	—	311 (302.2)	-8.6	51.5	—	+FL150	—	—	RNAV1

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	—	—	281 (272.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SUKOB	—	—	-8.6	—	R	+FL150	—	—	RNAV1

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA

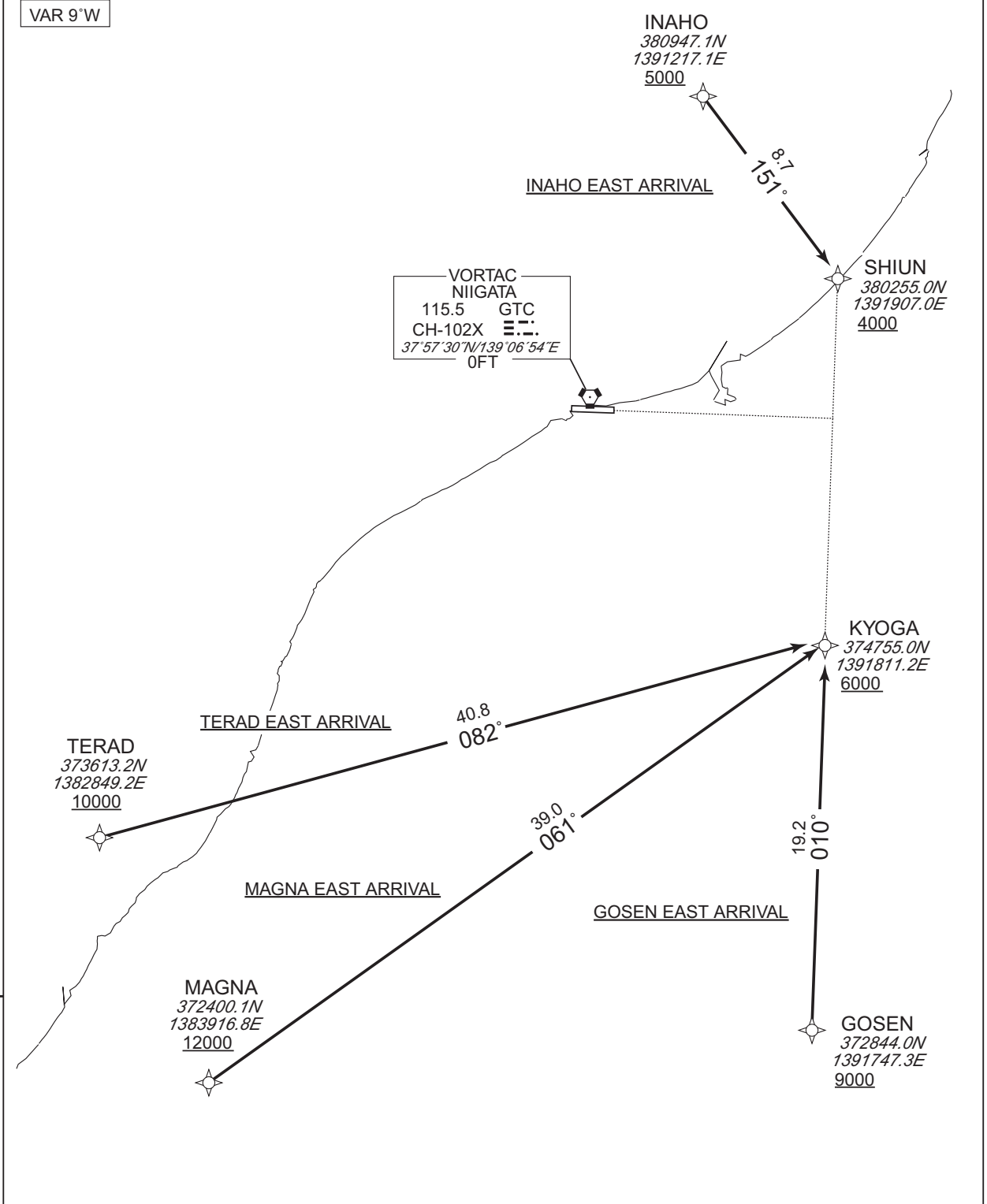
RNAV STAR RWY28

INAHO EAST ARRIVAL GOSEN EAST ARRIVAL MAGNA EAST ARRIVAL TERAD EAST ARRIVAL	RNAV1
--	-------

Note 1) GNSS required.
 2) RADAR service required.

VAR 9°W

CHANGE : Description of VAR.



STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA

RNAV STAR RWY28

INAHO EAST ARRIVAL

From INAHO at or above 5000FT, to SHIUN at or above 4000FT.

Critical DME	-
DME GAP	INAHO - SHIUN
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	INAHO	-	-	-8.6	-	-	+5000	-	-	RNAV1
002	TF	SHIUN	-	151 (141.9)	-8.6	8.7	-	+4000	-	-	RNAV1

GOSEN EAST ARRIVAL

From GOSEN at or above 9000FT, to KYOGA at or above 6000FT.

Critical DME	-
DME GAP	GOSEN - KYOGA
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	GOSEN	-	-	-8.6	-	-	+9000	-	-	RNAV1
002	TF	KYOGA	-	010 (000.9)	-8.6	19.2	-	+6000	-	-	RNAV1

MAGNA EAST ARRIVAL

From MAGNA at or above 12000FT, to KYOGA at or above 6000FT.

Critical DME	GTC:MAGNA - 10.0NM to KYOGA NTE:MAGNA - 10.0NM to KYOGA
DME GAP	10.0NM to KYOGA - KYOGA
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	MAGNA	-	-	-8.6	-	-	+12000	-	-	RNAV1
002	TF	KYOGA	-	061 (052.0)	-8.6	39.0	-	+6000	-	-	RNAV1

TERAD EAST ARRIVAL

From TERAD at or above 10000FT, to KYOGA at or above 6000FT.

Critical DME	-
DME GAP	TERAD - KYOGA
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	TERAD	-	-	-8.6	-	-	+10000	-	-	RNAV1
002	TF	KYOGA	-	082 (073.1)	-8.6	40.8	-	+6000	-	-	RNAV1

CHANGE : VAR. PROC course.

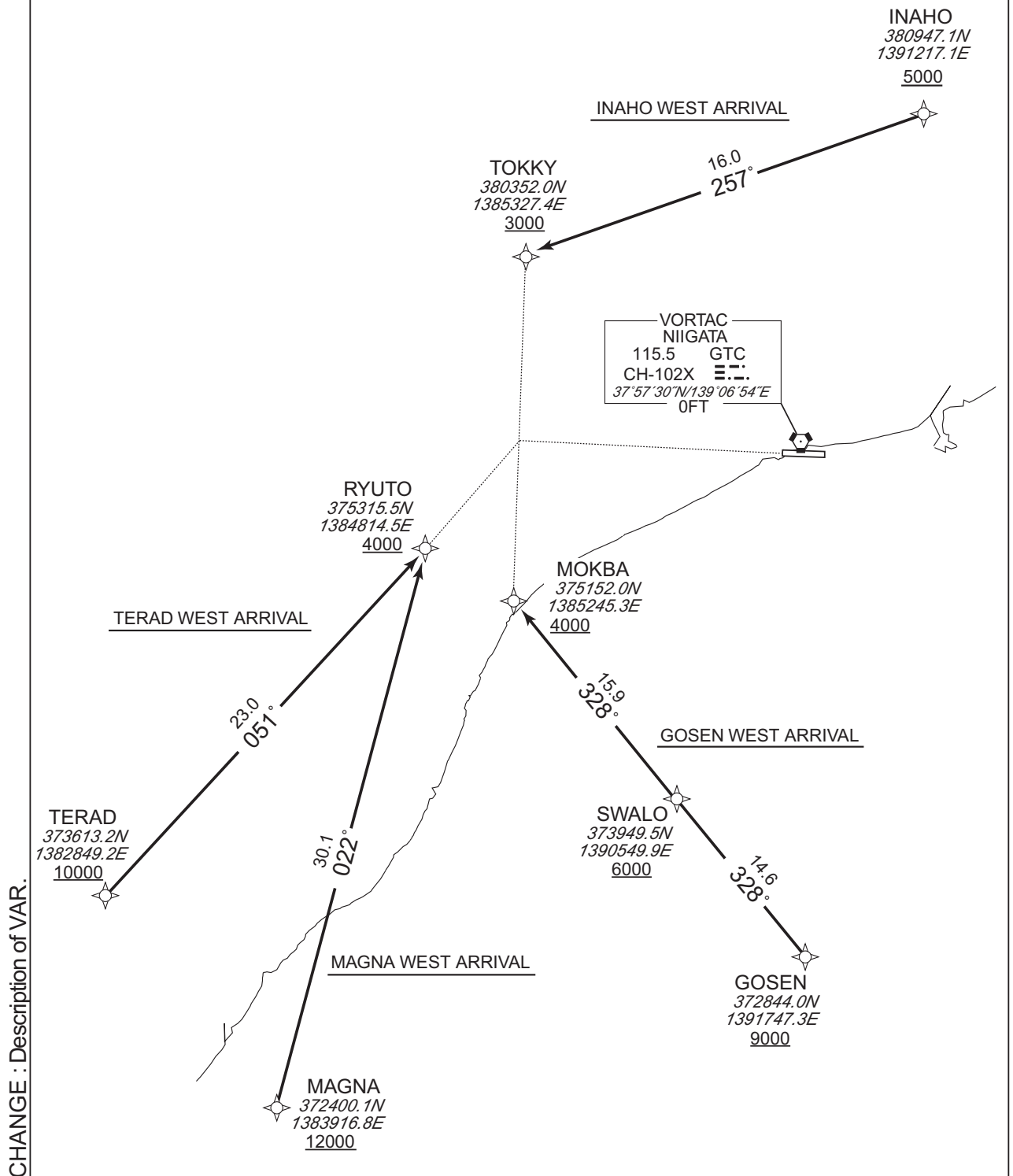
STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA RNAV STAR RWY10

INAHO WEST ARRIVAL GOSEN WEST ARRIVAL MAGNA WEST ARRIVAL TERAD WEST ARRIVAL	RNAV1
--	-------

Note 1) GNSS required.
 2) RADAR service required.

VAR 9°W



CHANGE : Description of VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA

RNAV STAR RWY10

INAHO WEST ARRIVAL

From INAHO at or above 5000FT, to TOKKY at or above 3000FT.

Critical DME	-
DME GAP	INAHO - TOKKY
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	INAHO	-	-	-8.6	-	-	+5000	-	-	RNAV1
002	TF	TOKKY	-	257 (248.3)	-8.6	16.0	-	+3000	-	-	RNAV1

GOSEN WEST ARRIVAL

From GOSEN at or above 9000FT, to SWALO at or above 6000FT, to MOKBA at or above 4000FT.

Critical DME	-
DME GAP	GOSEN - MOKBA
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	GOSEN	-	-	-8.6	-	-	+9000	-	-	RNAV1
002	TF	SWALO	-	328 (319.5)	-8.6	14.6	-	+6000	-	-	RNAV1
003	TF	MOKBA	-	328 (319.4)	-8.6	15.9	-	+4000	-	-	RNAV1

MAGNA WEST ARRIVAL

From MAGNA at or above 12000FT, to RYUTO at or above 4000FT.

Critical DME	GTC:MAGNA - 15.0NM to RYUTO NTE:MAGNA - 15.0NM to RYUTO
DME GAP	15.0NM to RYUTO - RYUTO
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	MAGNA	-	-	-8.6	-	-	+12000	-	-	RNAV1
002	TF	RYUTO	-	022 (013.6)	-8.6	30.1	-	+4000	-	-	RNAV1

TERAD WEST ARRIVAL

From TERAD at or above 10000FT, to RYUTO at or above 4000FT.

Critical DME	-
DME GAP	TERAD - RYUTO
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	TERAD	-	-	-8.6	-	-	+10000	-	-	RNAV1
002	TF	RYUTO	-	051 (041.9)	-8.6	23.0	-	+4000	-	-	RNAV1

CHANGE : VAR. PROC course FM TERAD to RYUTO.

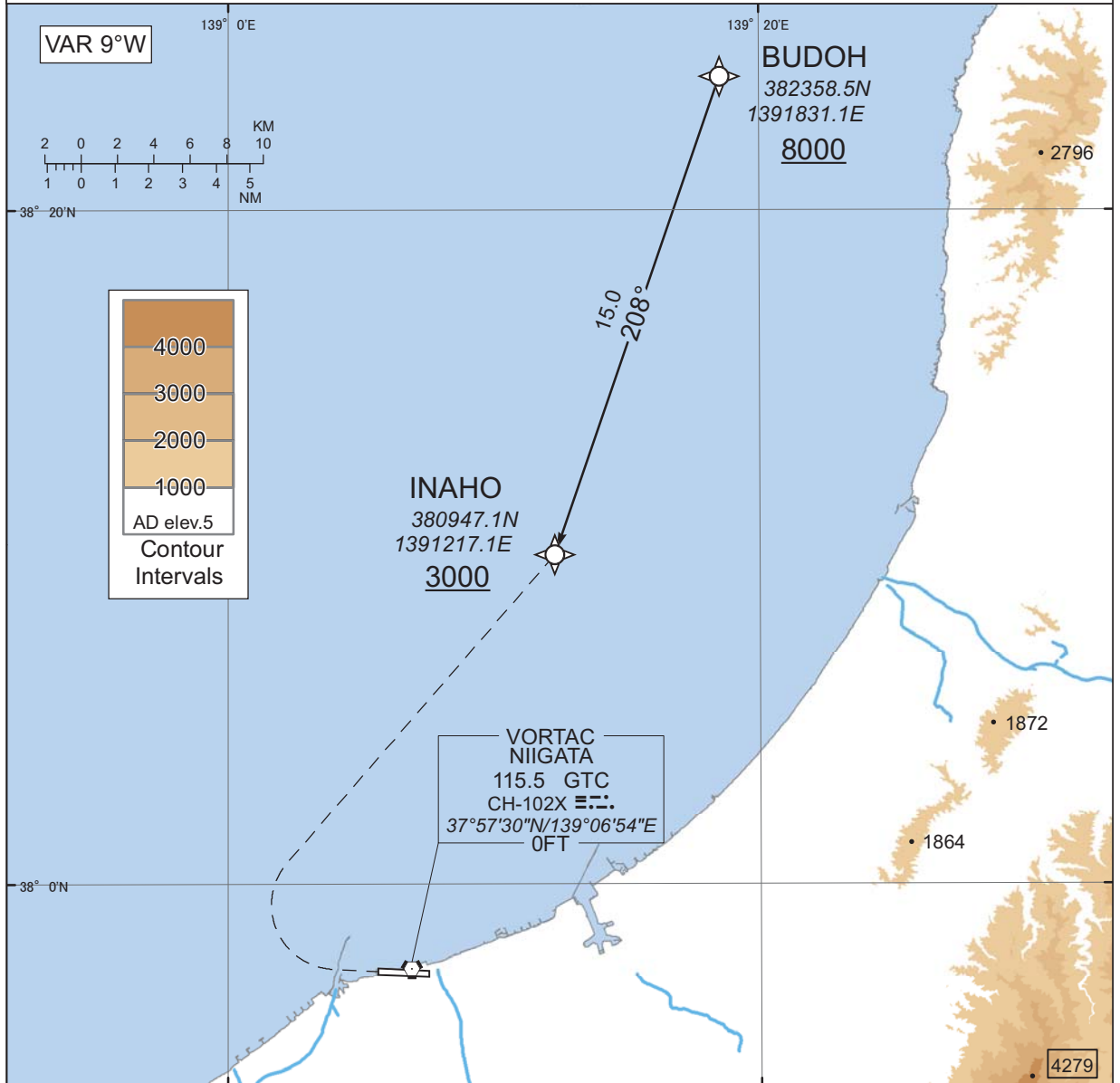
STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA RNAV STAR RWY10

KAETSU ARRIVAL

RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

From BUDOH at or above 8000FT, to INAHO at or above 3000FT.

Serial Number	Path Descriptor	Way point Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BUDOH	-	208 (199.1)	-8.6	-	-	+8000	-	-	RNP1
002	TF	INAHO	-	-	-8.6	15.0	-	+3000	-	-	RNP1

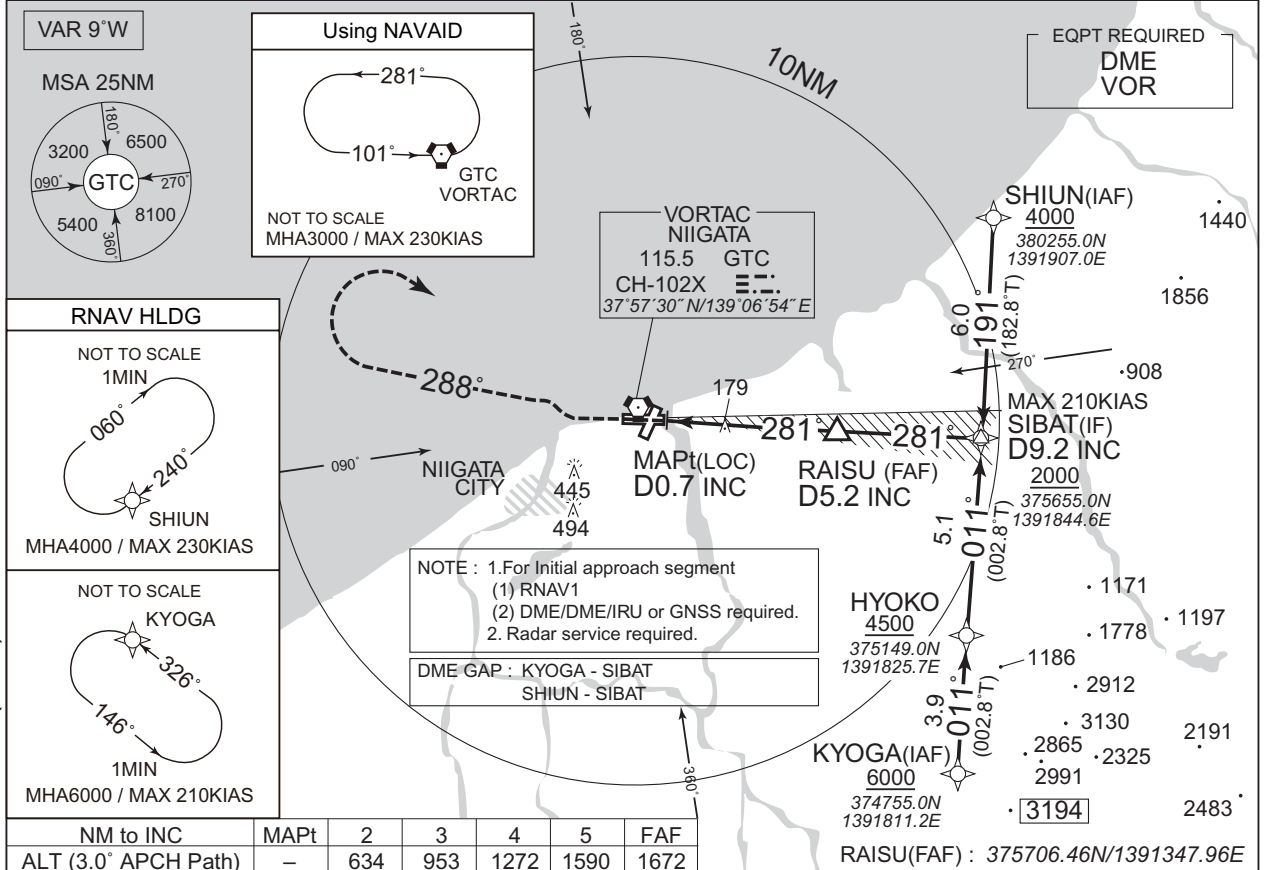
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INSTRUMENT APPROACH CHART

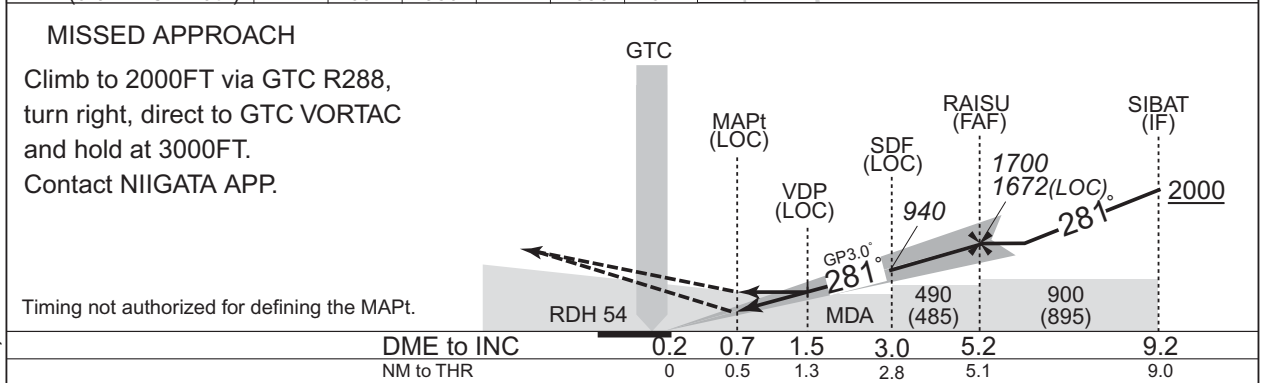
RJSN / NIIGATA

ILS Z or LOC Z RWY28

NIIGATA APP 121.4	ILS - LOC 109.3 INC ILS-GP 332.0 ILS-DME CH-30X	NIIGATA TOWER 118.0 - 126.2	RADAR AVBL ATIS 128.45
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CHANGE : MSA(BTN 270° and 360°). Missed APCH course. HLDG course(GTC).



Missed APCH climb gradient MNM 3.0%

CAT	THR elev. 10		AD elev. 5			
	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	210 (200)	700	470 (465)	1400	710 (705)	1600
B				1500		
C				1600		
D				1800		

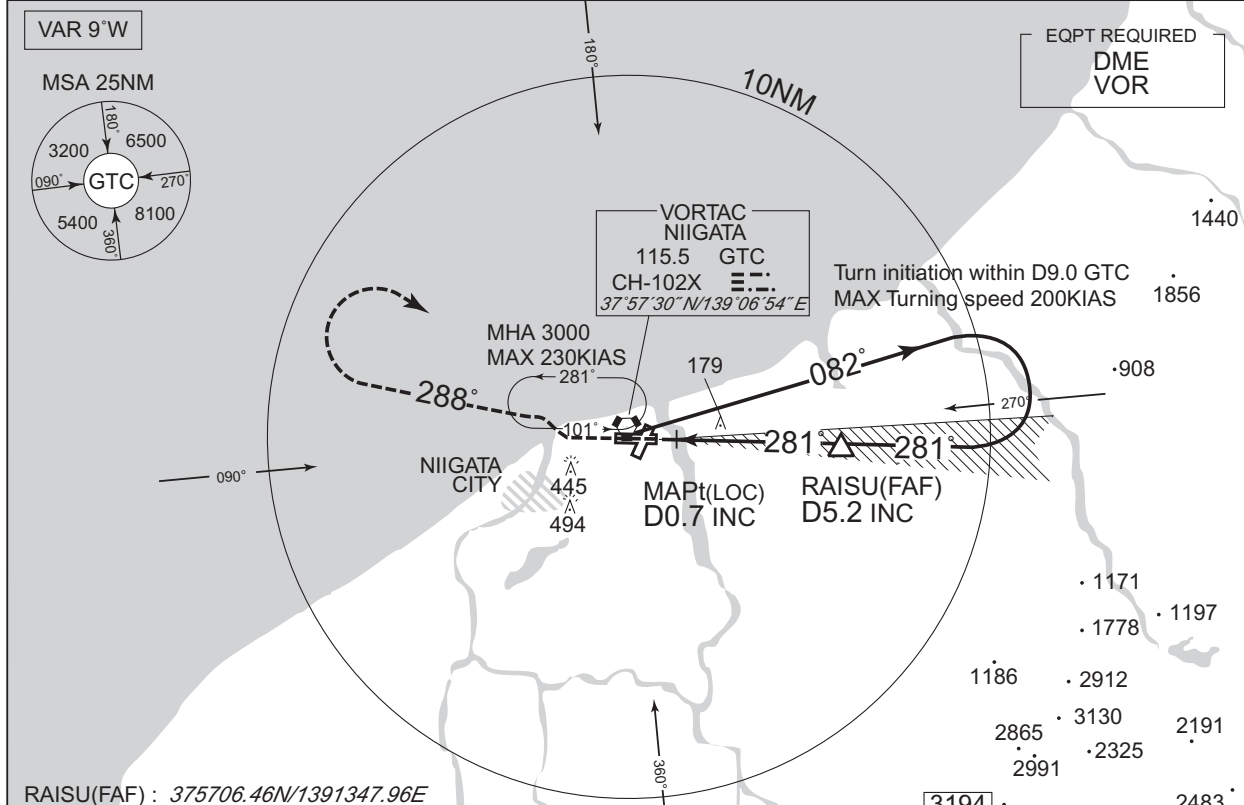
MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

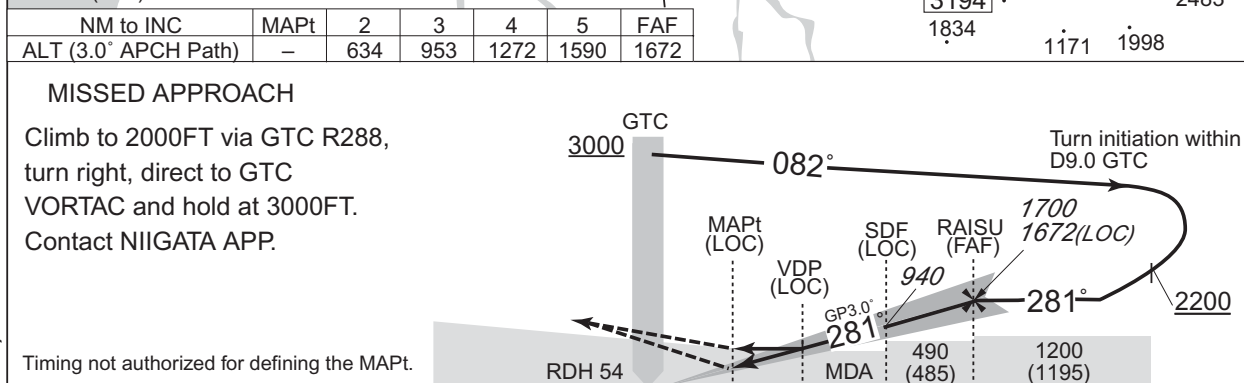
RJSN / NIIGATA

ILS Y or LOC Y RWY28

NIIGATA APP 121.4	ILS - LOC 109.3 INC 3:-- ILS-GP 332.0 ILS-DME CH-30X	NIIGATA TOWER 118.0 - 126.2	RADAR AVBL ATIS 128.45
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CHANGE : MSA(BTN 270° and 360°). PROC course. Missed APCH course. HLDG course.



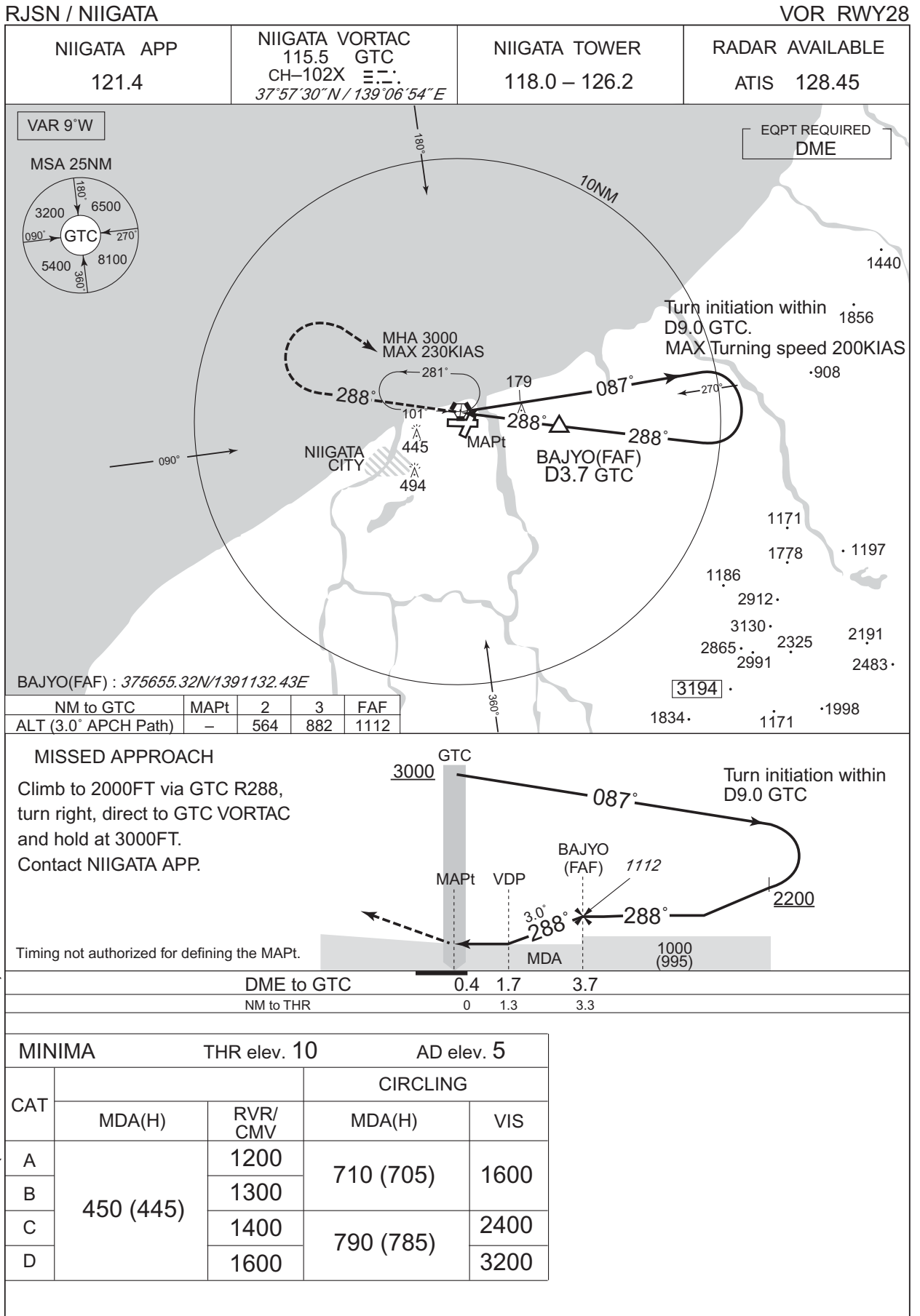
DME to INC	0.2	0.7	1.5	3.0	5.2
NM to THR	0	0.5	1.3	2.8	5.1

Missed APCH climb gradient MNM 3.0%

MINIMA		THR elev. 10		AD elev. 5	
CAT	CAT I	LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	210 (200)	700	470 (465)	1400	710 (705) 1600
B				1500	
C				1600	790 (785) 2400
D				1800	

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART



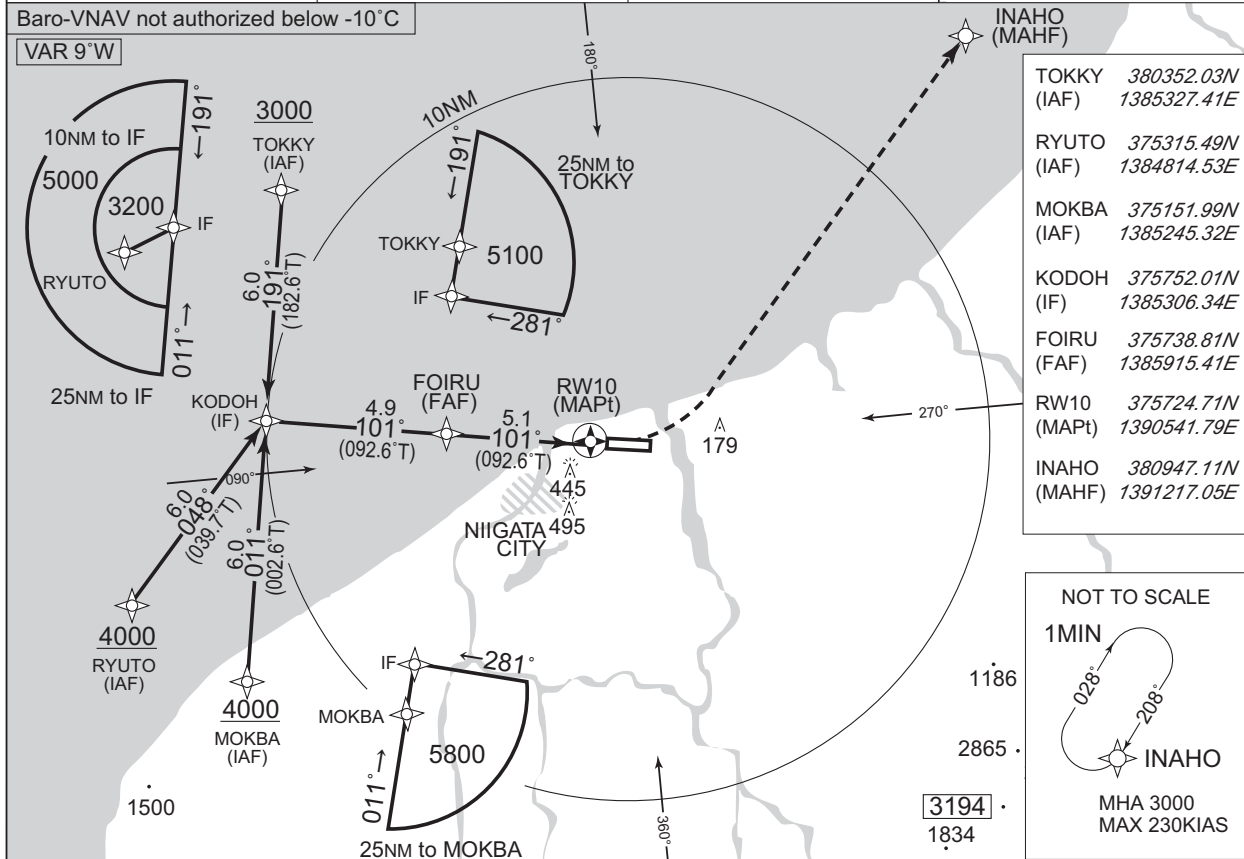
CHANGE : MSA(BTN 270° and 360°). PROC course. Missed APCH course. HLDG course.

INSTRUMENT APPROACH CHART

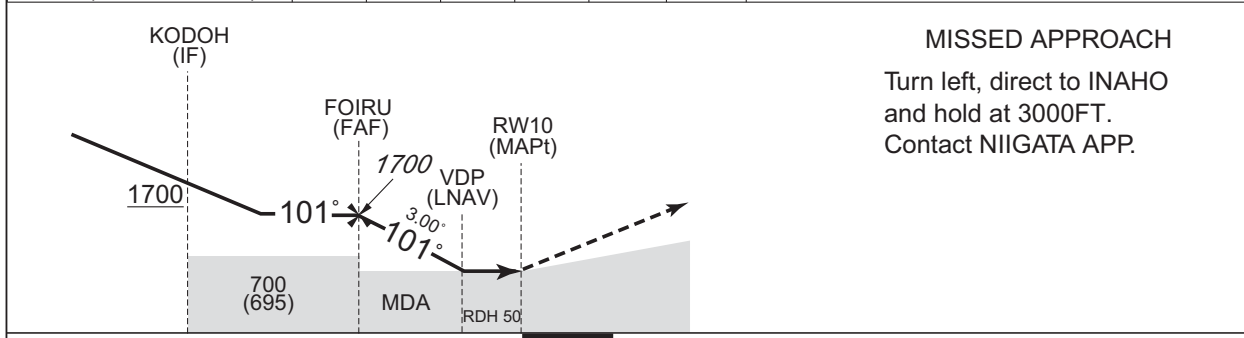
RJSN / NIIGATA

RNP Z RWY10

NIIGATA APP 121.4	RNP APCH	NIIGATA TOWER 118.0 – 126.2	RADAR AVBL ATIS 128.45
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NM To Next Fix	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)		1700	1669	1350	1032	713



	9.9	5.1	1.6	0	NM to THR
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MINIMA		THR elev. 27		AD elev. 5		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	580 (553)	1400	580 (575)	1400	710 (705)	1600
B		1500		1500		
C		1600		1600	790 (785)	2400
D		1800		1800		

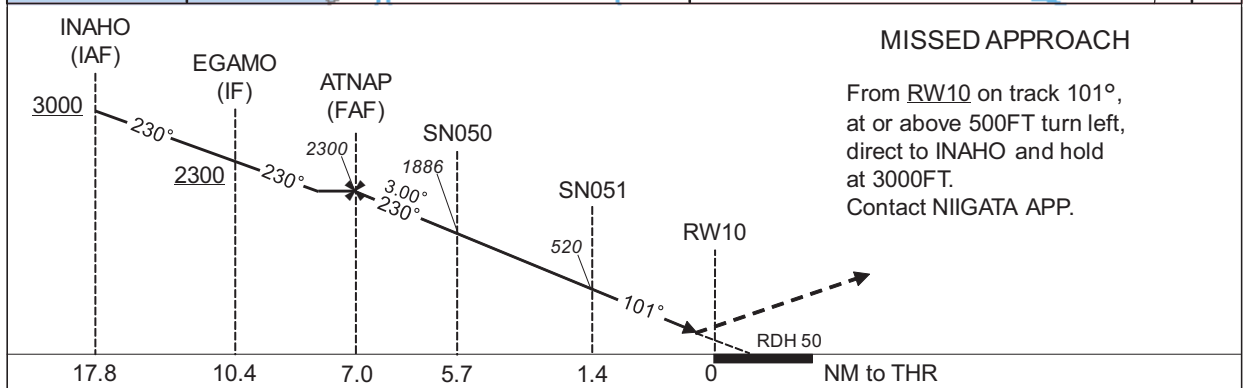
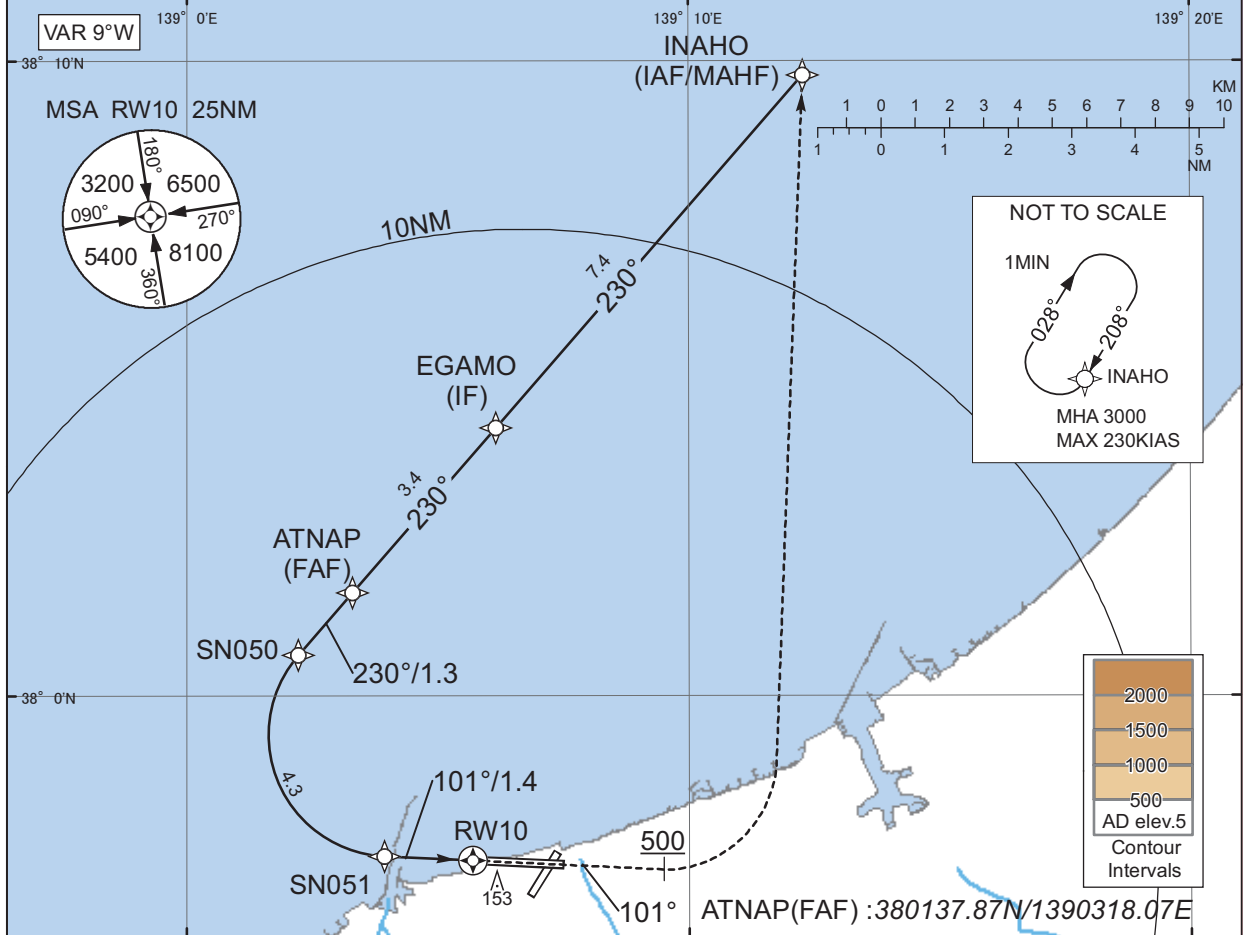
CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA RNP Y RWY10(AR)

NIIGATA APP 121.4	RNP AR RF required.	NIIGATA TOWER 118.0 – 126.2	RADAR AVBL ATIS 128.45
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For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C



CHANGE : New PROC.

MINIMA	THR elev. 27	AD elev. 5	
CAT	RNP 0.30		
	DA(H)	CMV	
A	-	-	
B	-	-	
C	305(278)	1200	
D	315(288)	1400	

Authorization Required

INSTRUMENT APPROACH CHART

RJSN / NIIGATA

RNP Y RWY10(AR)

Coding 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	INAHO	-	-	-8.6	-	-	+3000	-	-	-
002	TF	EGAMO	-	230 (221.0)	-8.6	7.4	-	+2300	-	-	1.0
003	TF	ATNAP	-	230 (220.9)	-8.6	3.4	-	2300	-	-	1.0
004	TF	SN050	-	230 (220.9)	-8.6	1.3	-	1886	-	-3.00	0.3
005	RF Center: SNRF1 r=1.91NM	SN051	-	-	-8.6	4.3	L	520	-	-3.00	0.3
006	TF	RW10	Y	101 (092.7)	-8.6	1.4	-	77	-	-3.00/50	0.3
007	FA	-	-	101 (092.7)	-8.6	-	-	+500	-	-	1.0
008	DF	INAHO	-	-	-8.6	-	L	3000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	INAHO	208 (199.1)	-8.6	1.0 (-14000)	R	3000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
INAHO	380947.11N / 1391217.05E	SNRF1	375923.46N / 1390402.94E
EGAMO	380413.79N / 1390609.55E		
ATNAP	380137.87N / 1390318.07E		
SN050	380038.89N / 1390213.27E		
SN051	375728.60N / 1390356.21E		
RW10	375724.71N / 1390541.79E		

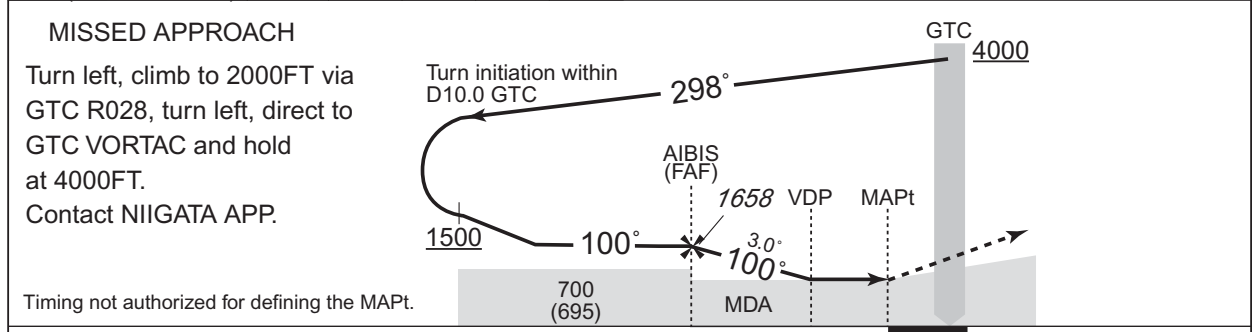
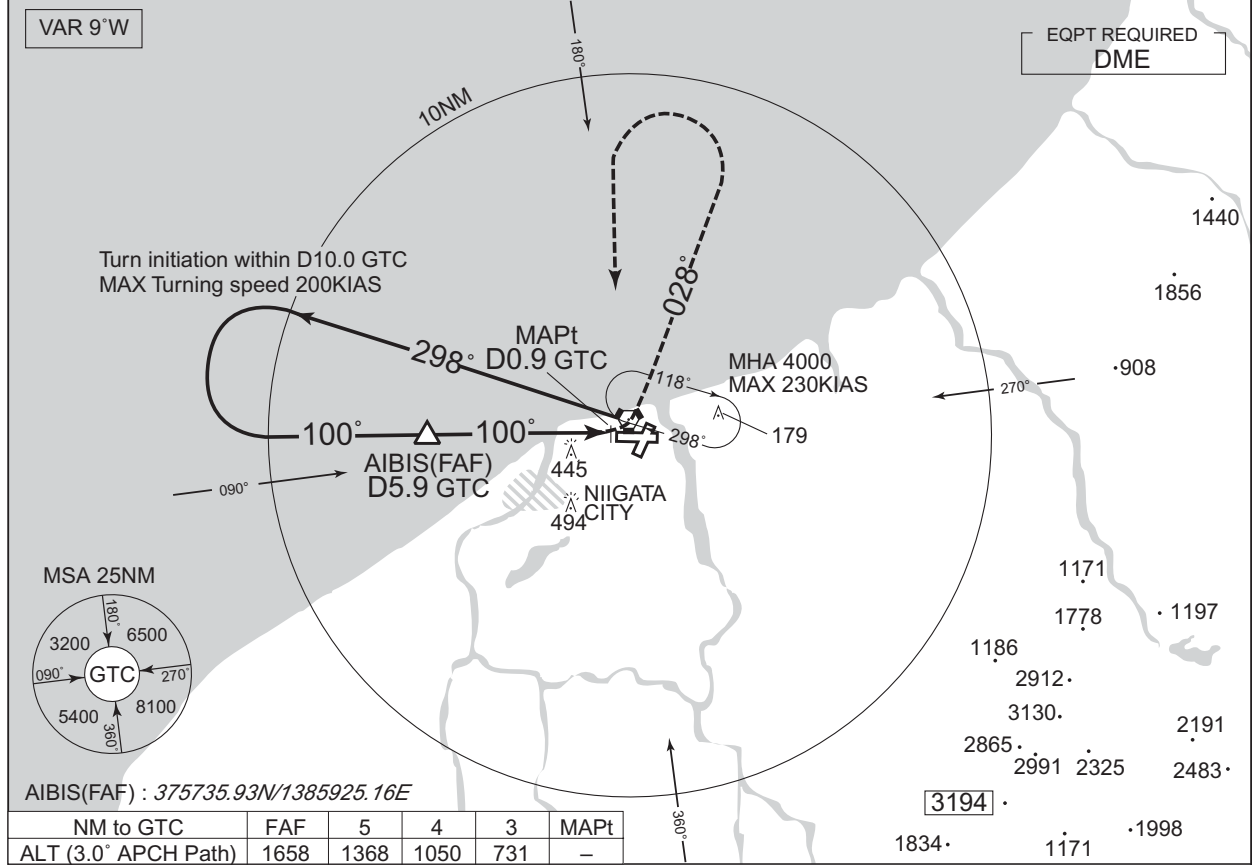
CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA

VOR RWY10

NIIGATA APP 121.4	NIIGATA VORTAC 115.5 GTC CH-102X 37°57'30"N / 139°06'54"E	NIIGATA TOWER 118.0 – 126.2	RADAR AVAILABLE ATIS 128.45
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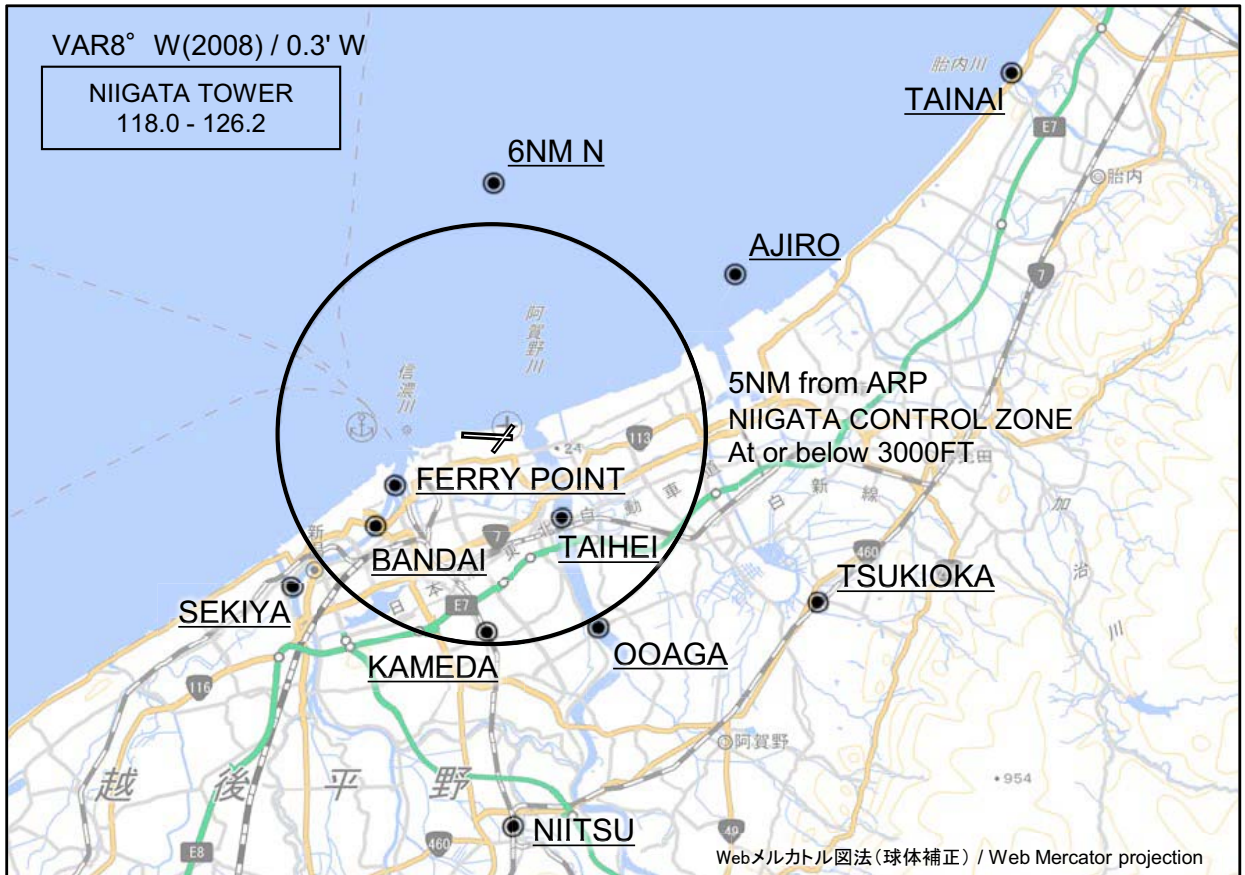
5.9	2.7	0.9	DME to GTC
5.0	1.8	0	NM to THR

MINIMA		THR elev. 27		AD elev. 5	
CAT	MDA(H)	CMV	CIRCLING		
			MDA(H)	VIS	
A	630 (625)	1400	710 (705)	1600	
B		1500			
C		1600	790 (785)	2400	
D		1800			

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Visual REP



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

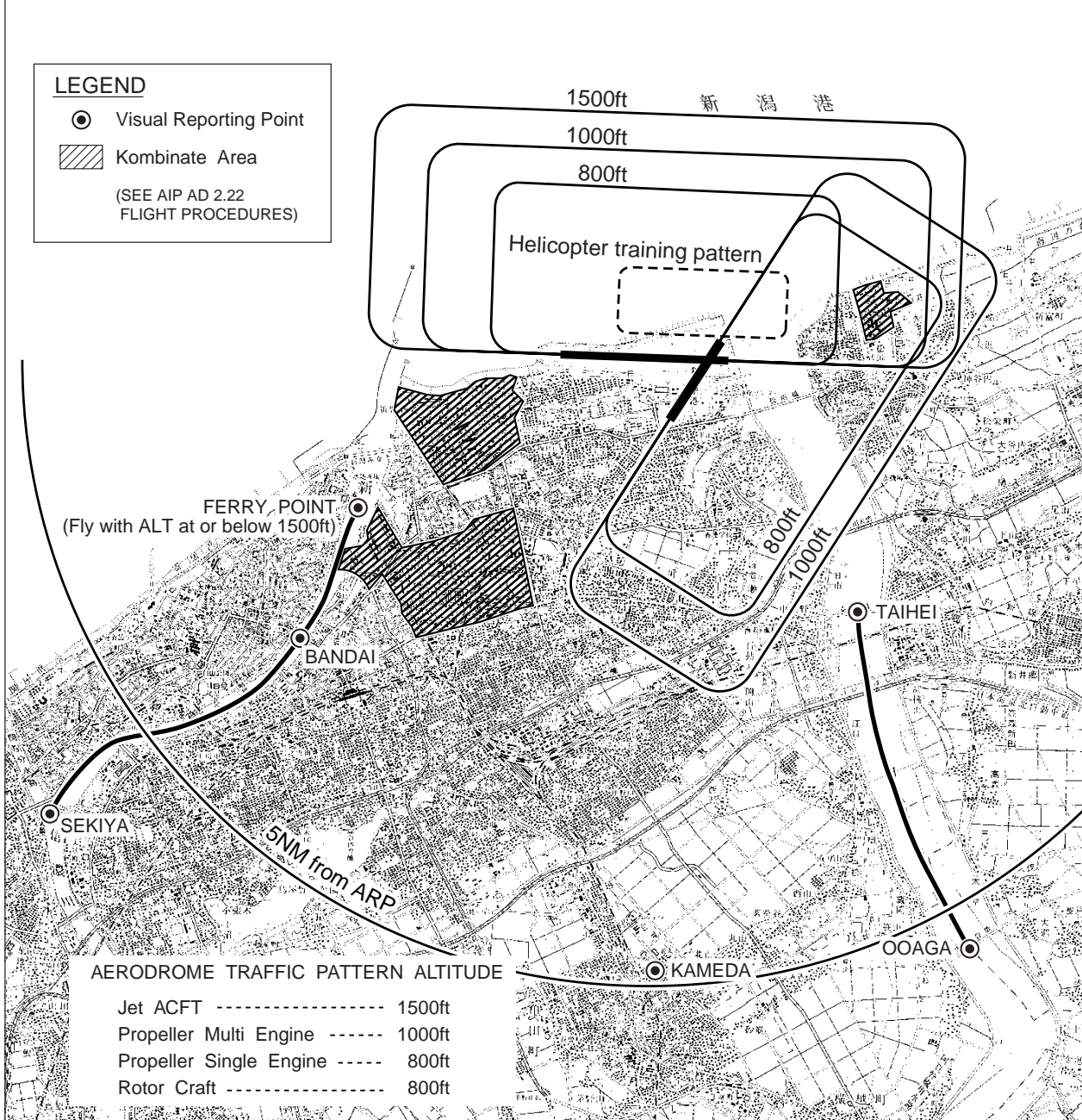
CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
胎内 Tainai	054°T / 14.9NM	胎内川河口 River-mouth
6NM N	360°T / 6.0NM	海上 Over the sea
網代 Ajiro	056°T / 6.9NM	防波堤突端の赤色灯台 Red lighthouse at the tip of breakwater
*フェリーポイント Ferry point	243°T / 2.6NM	万代橋より信濃川下流2kmの地点 (1,500FT以下で通過すること) The point 2km down the Shinano from the Bandai Bridge.(Fly with ALT at or below 1500FT)
*泰平 Taihei	141°T / 2.5NM	橋 Bridge
*万代 Bandai	232°T / 3.5NM	橋 Bridge
関屋 Sekiya	232°T / 6.0NM	分水路への分岐点 Diverging-point for Flood-control channel
月岡 Tsukioka	118°T / 8.6NM	JR駅 Station
大阿賀 Ooaga	152°T / 5.2NM	橋 Bridge
亀田 Kameda	182°T / 4.7NM	JR駅 Station
新津 Niitsu	177°T / 9.4NM	JR駅 Station

*ヘリコプター Use for helicopter

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TFC PATTERN



阿賀野ルート：大阿賀～泰平間の阿賀野川に沿う飛行経路（回転翼航空機用）

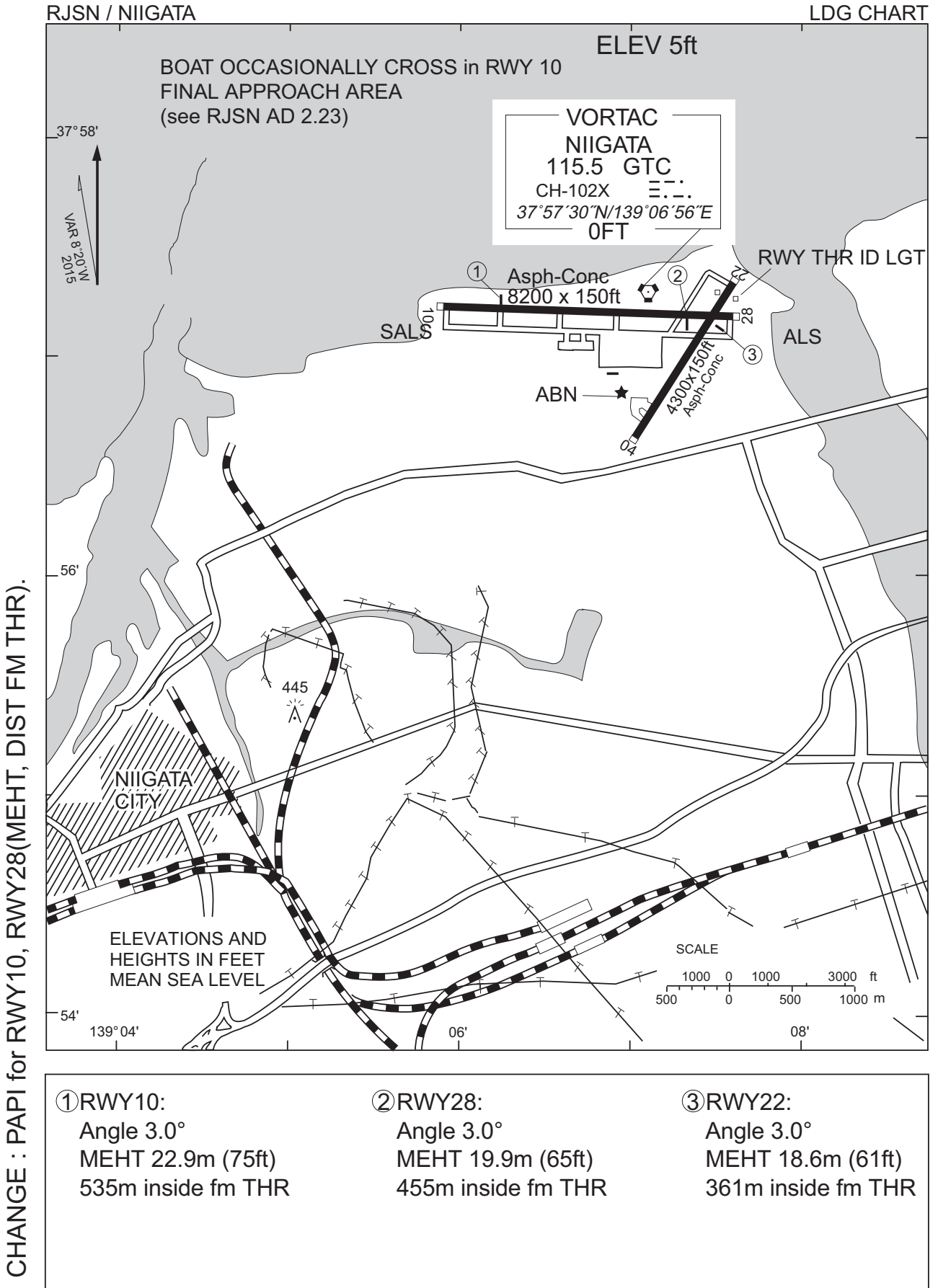
AGANO ROUTE : The route along Agano river between OOAGA and TAIHEI (Use for Rotor Craft)

信濃ルート：関屋～万代～フェリーポイント間の信濃川に沿う飛行経路（回転翼航空機用）

SHINANO ROUTE : The route along Shinano river between SEKIYA, BANDAI and FERRY POINT (Use for Rotor Craft)

※新潟タワーから上記ルートによる飛行の指示があった場合、VFR回転翼航空機は空港周辺における航空機騒音軽減のためVMCを維持できない場合を除き可能な限り当該ルートに沿って飛行することが望ましい。

※In order to reduce aircraft noise in the vicinity of airport, VFR Rotor Craft is expected to follow the above mentioned route when insructed by Niigata tower. (except the case of IMC)



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Minimum Vectoring Altitude CHART

