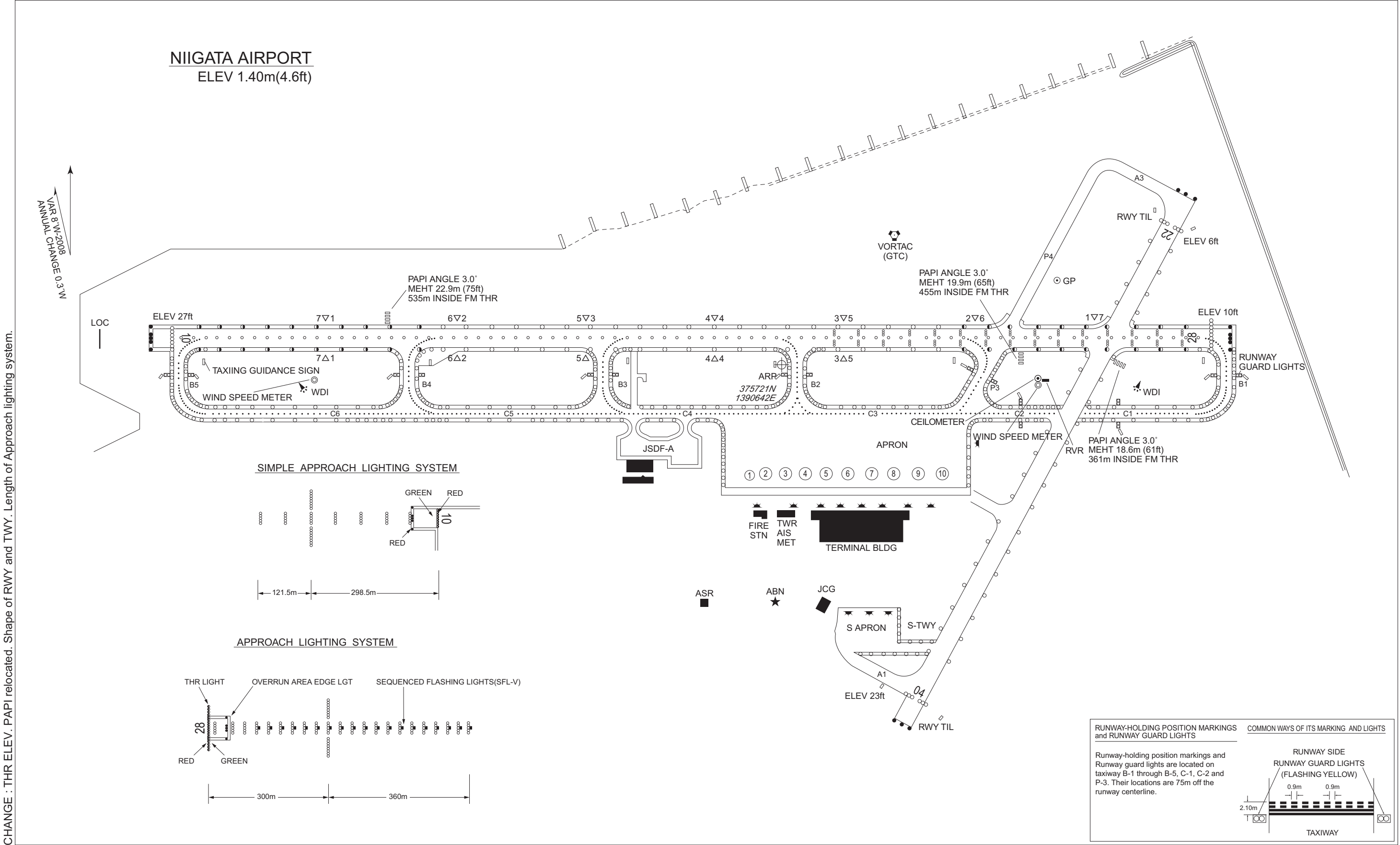
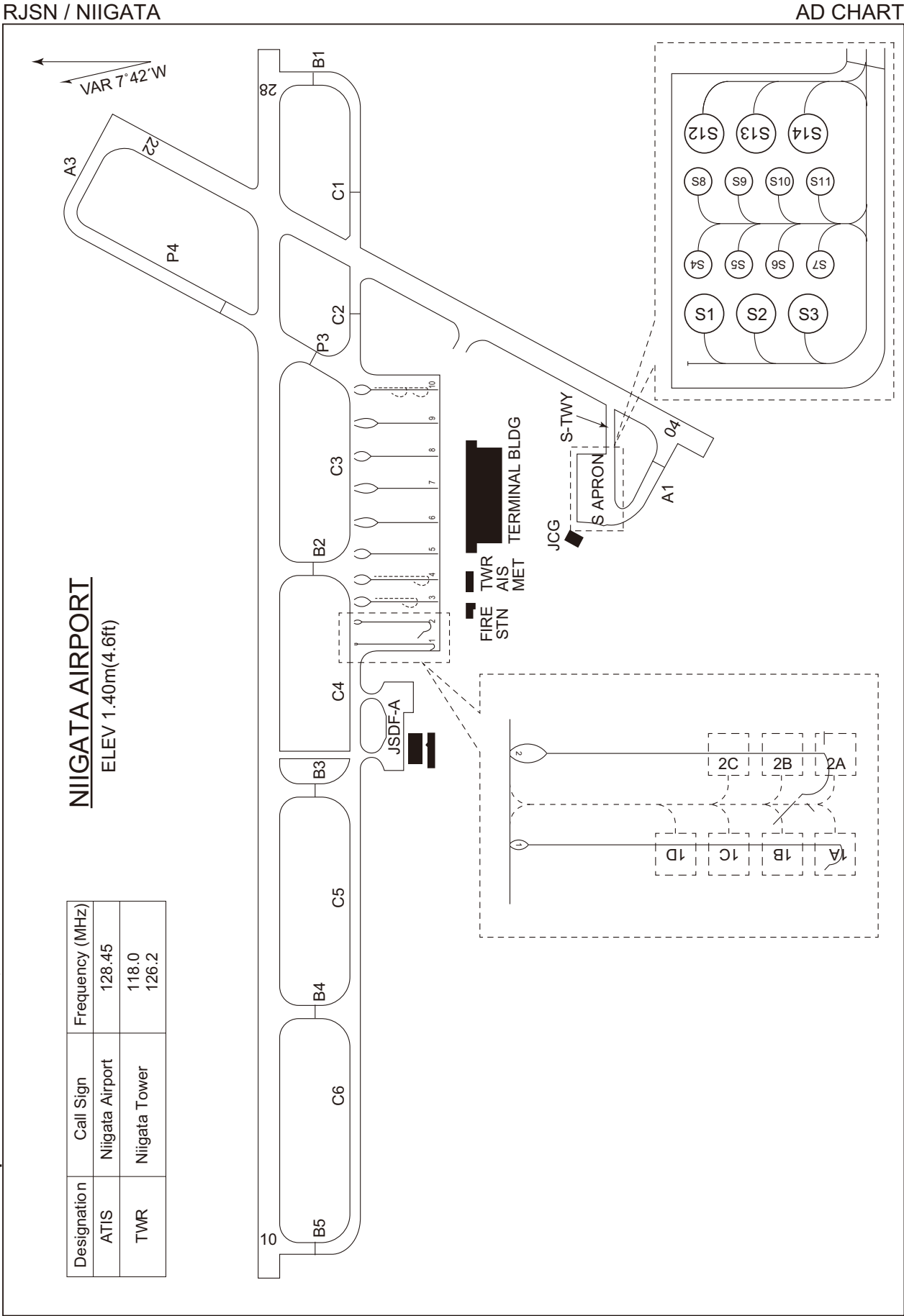


AERODROME CHART



CHANGE: Spot FM 1A to 1D, FM 2A to 2C installed.



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



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.

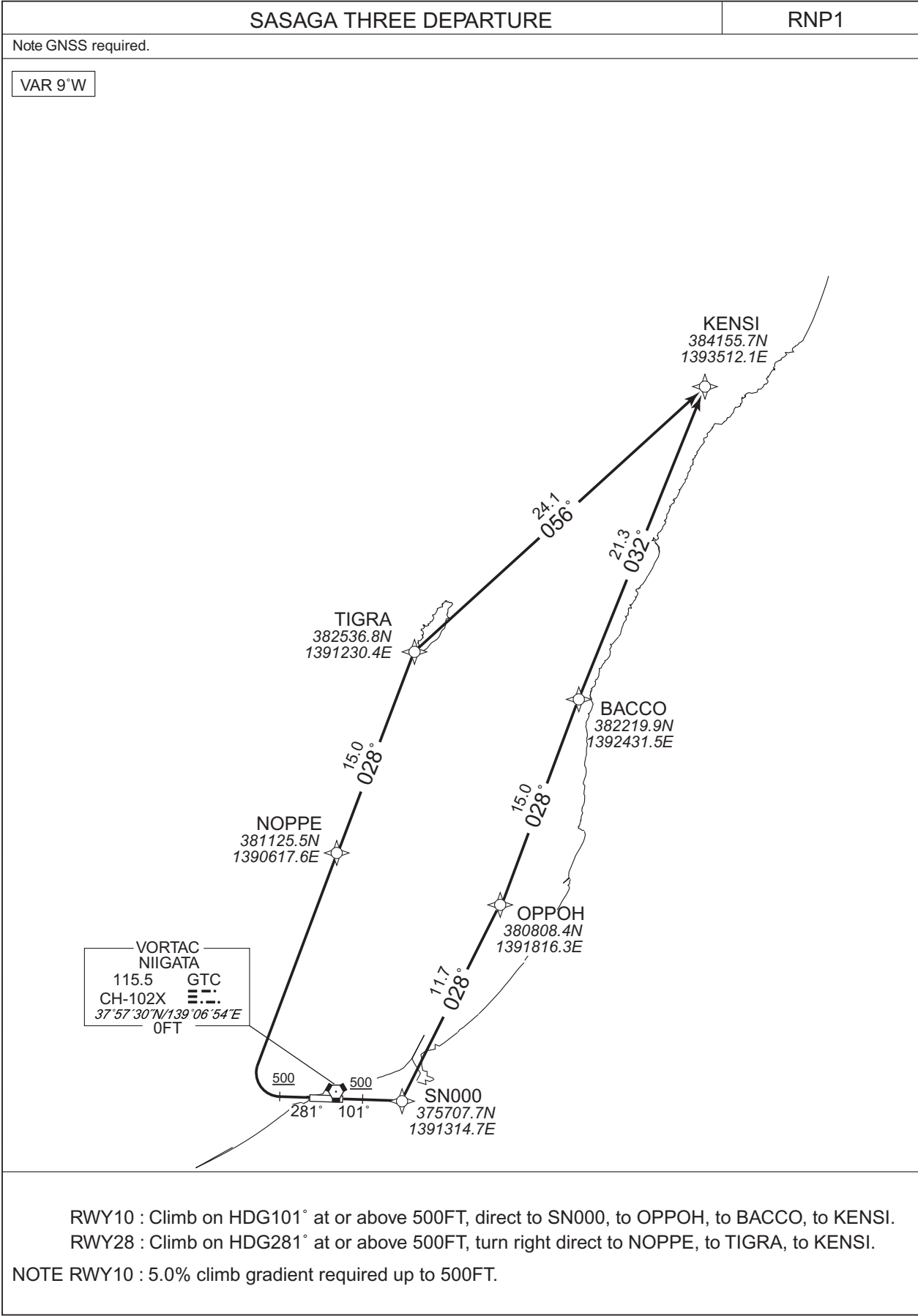


CHANGE : PROC renamed. ALT restriction.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID



STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

SASAGA THREE DEPARTURE

RWY10

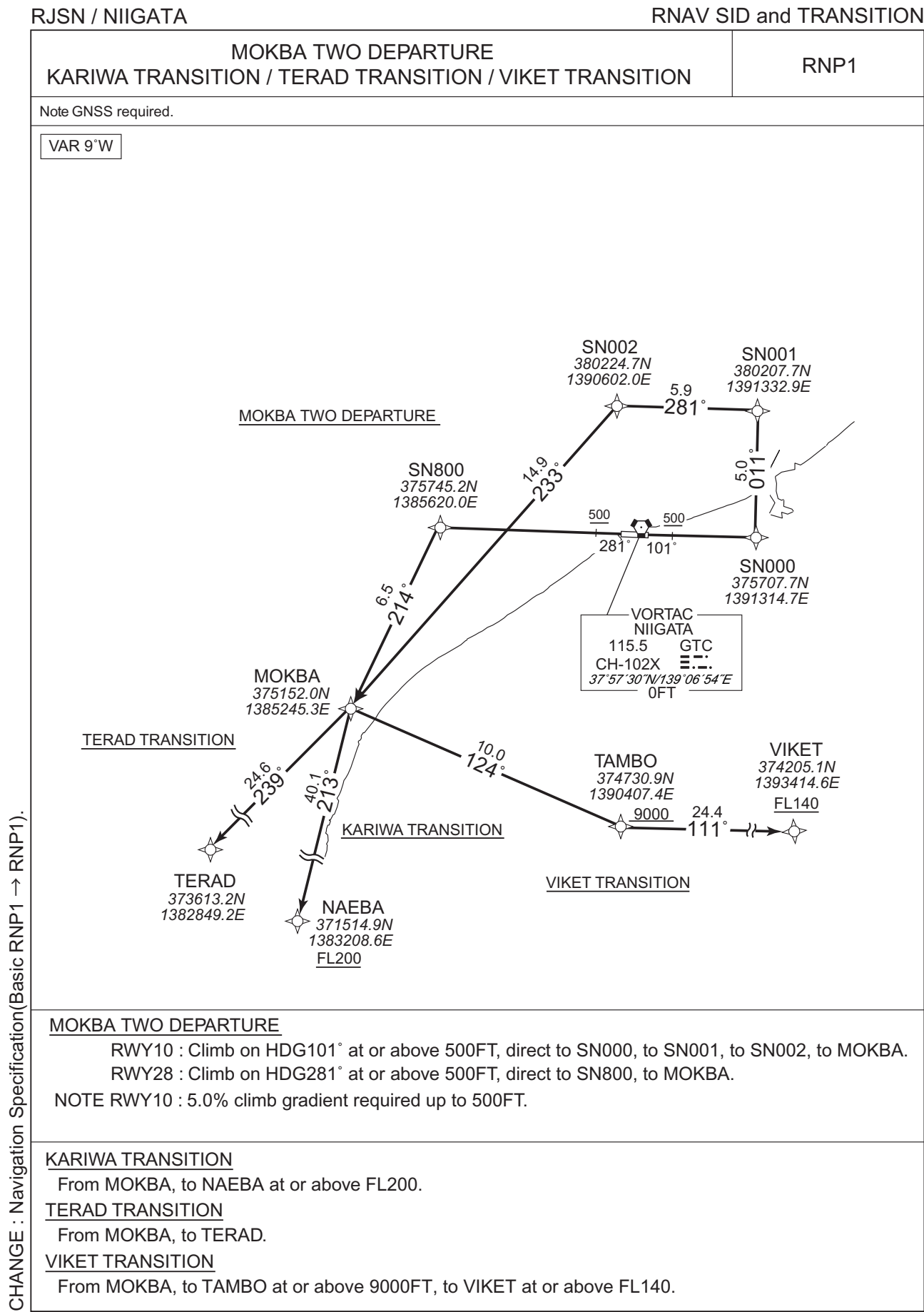
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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



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

SUKOB
382919.9N
1381752.8E
FL150



51.5
377°

SN001
380207.7N
1391332.9E

011°/5.0

SN000
375707.7N
1391314.7E

VORTAC
NIIGATA
115.5 GTC
CH-102X
37°57'30"N/139°06'54"E
0FT

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



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

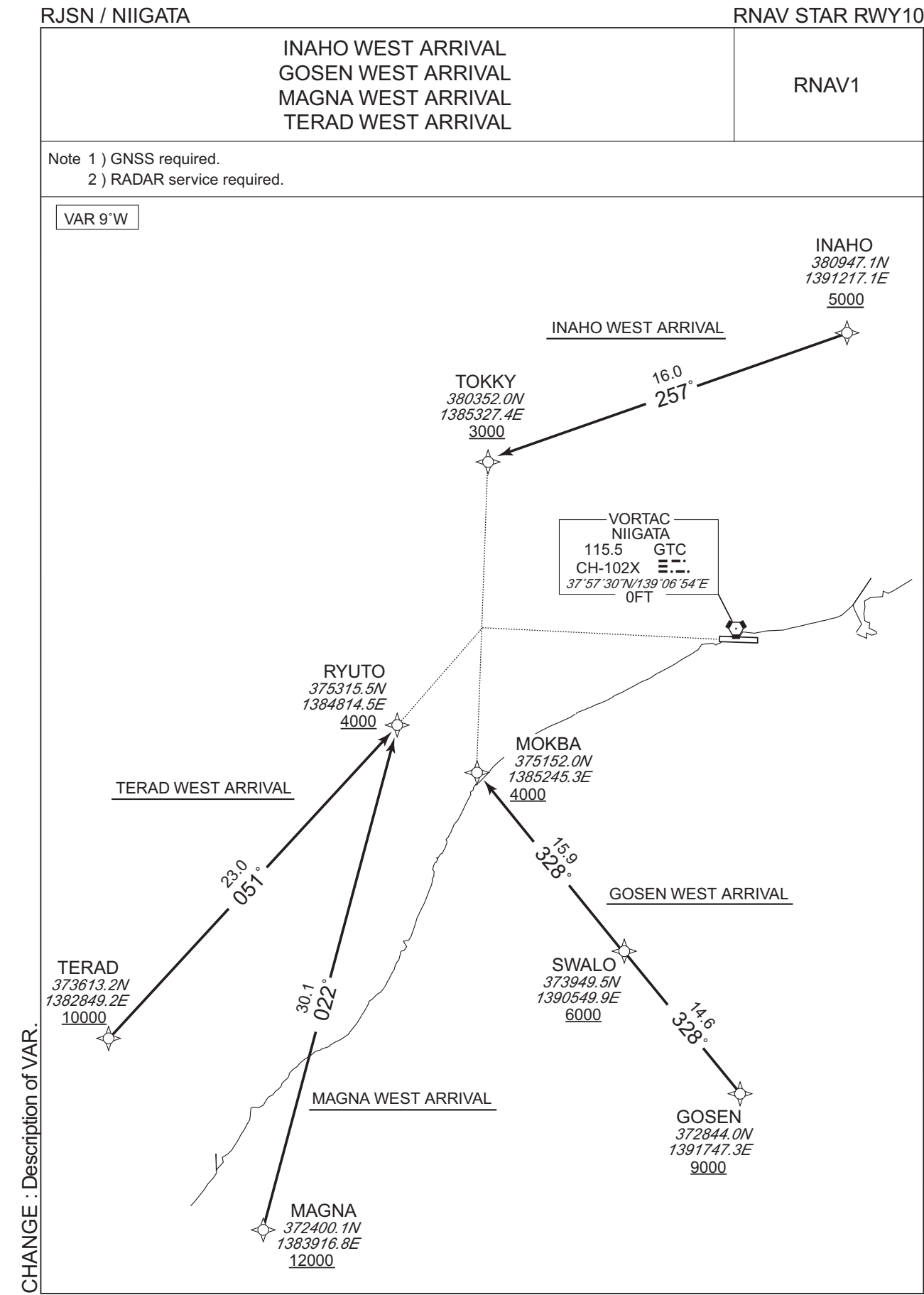
From TERAD at or above 10000FT, to KYOGA at or above 6000FT.

| | |
|------------------------|---------------------------------------------------|
| 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



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

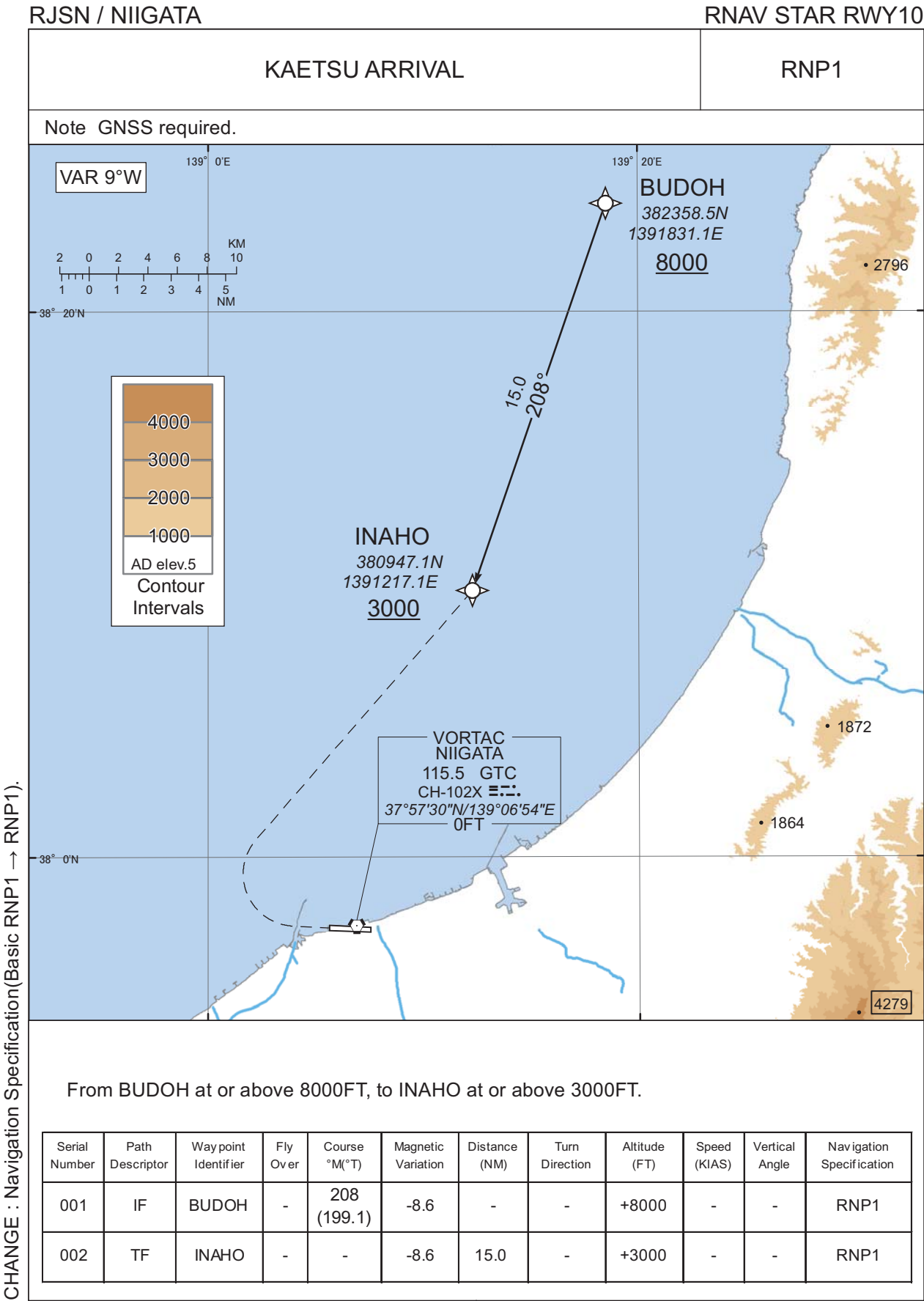
From TERAD at or above 10000FT, to RYUTO at or above 4000FT.

| | |
|------------------------|---------------------------------------------------|
| 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



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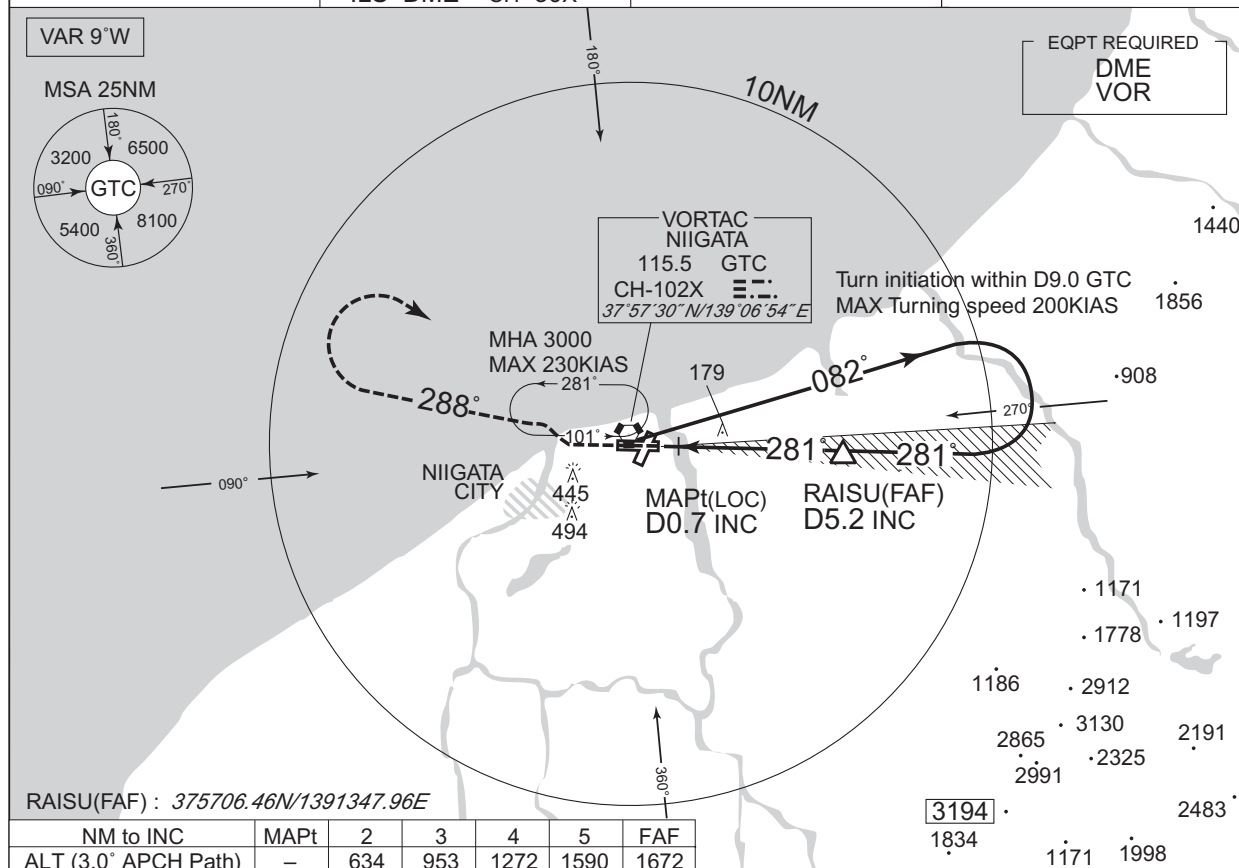
RJSN / NIIGATA ILS Z or LOC Z RWY28



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

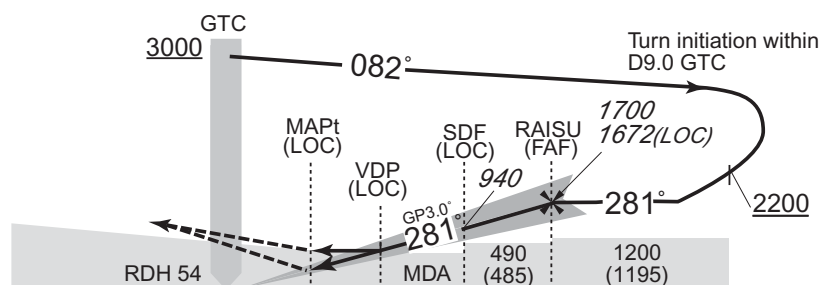
ILS Y or LOC Y RWY28

| | | | |
|-------------|----------------------------------------------------------------|---------------|-------------|
| NIIGATA APP | ILS – LOC 109.3 INC 330.0 ILS-GP 332.0 ILS-DMF CH-30x | NIIGATA TOWER | RADAR AVBL |
| 121.4 | | 118.0 – 126.2 | ATIS 128.45 |



Climb to 2000FT via GTC R288,
turn right, direct to GTC
VORTAC and hold at 3000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.



| | | | | | |
|------------|-----|-----|-----|-----|-----|
| 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%

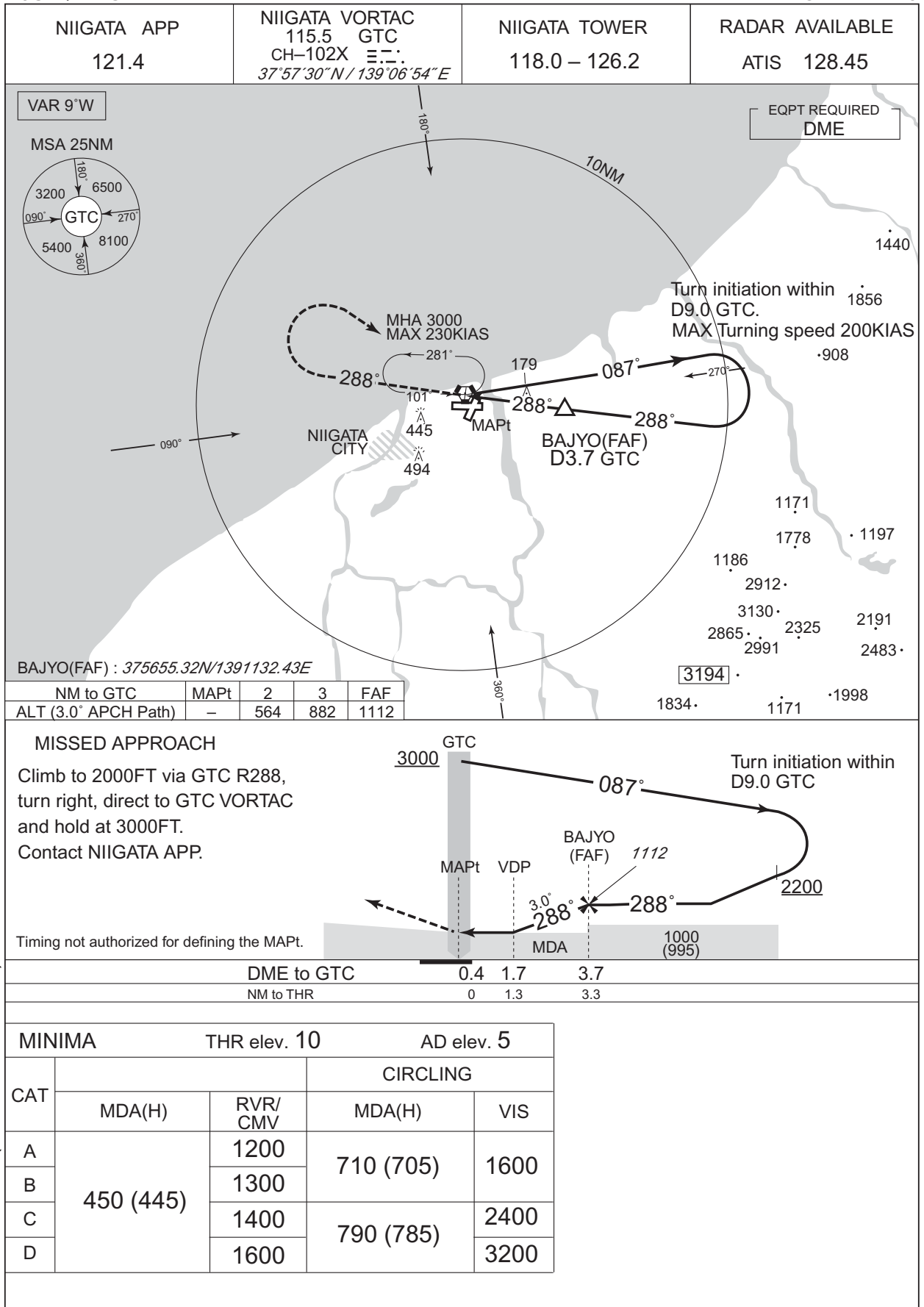
| MINIMA | | THR elev. 10 | | AD elev. 5 | | |
|--------|-----------|--------------|-----------|-------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 210 (200) | 700 | 470 (465) | 1400 | 710 (705) | 1600 |
| B | | | |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

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

INSTRUMENT APPROACH CHART

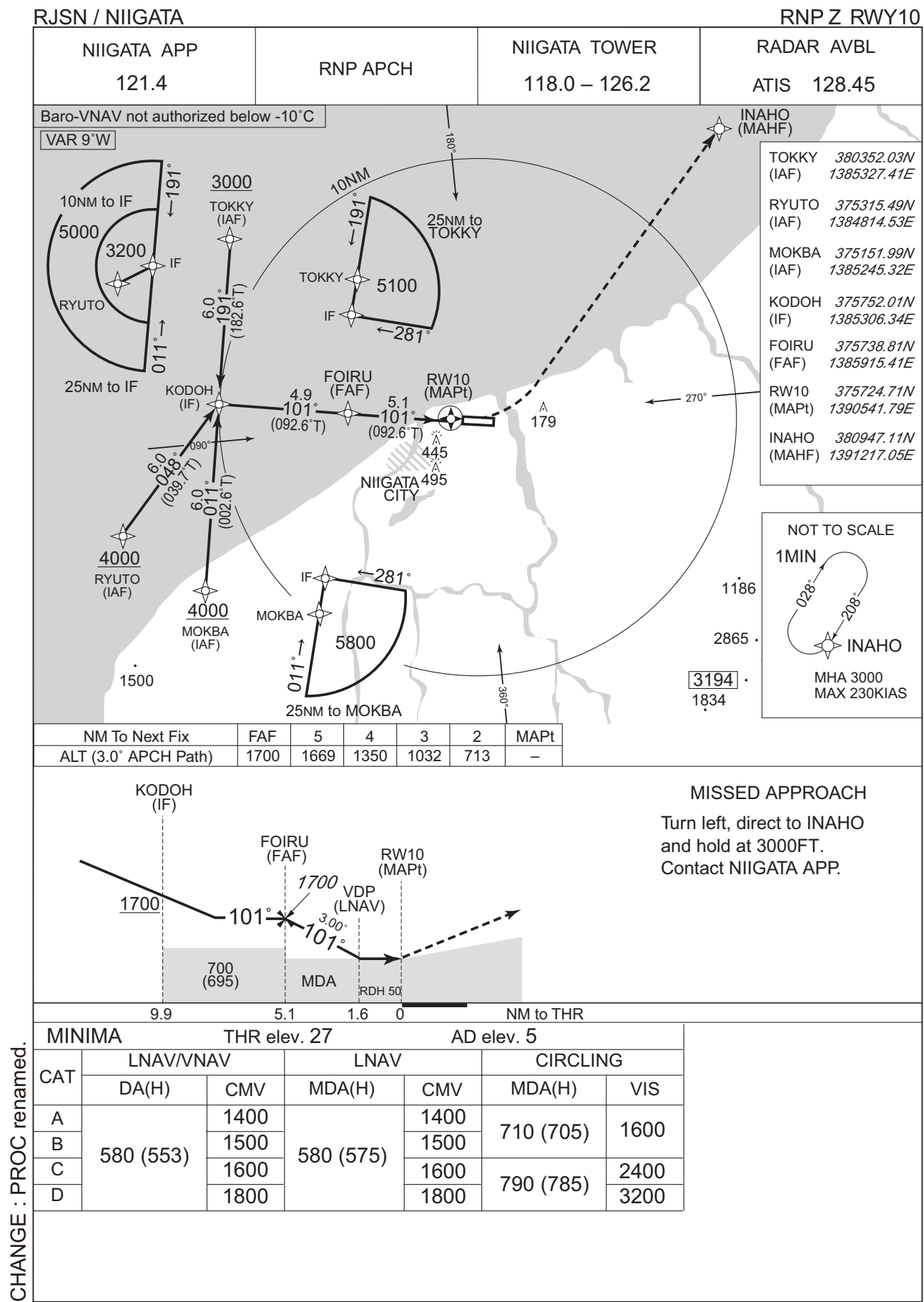
RJSN / NIIGATA

VOR RWY28



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

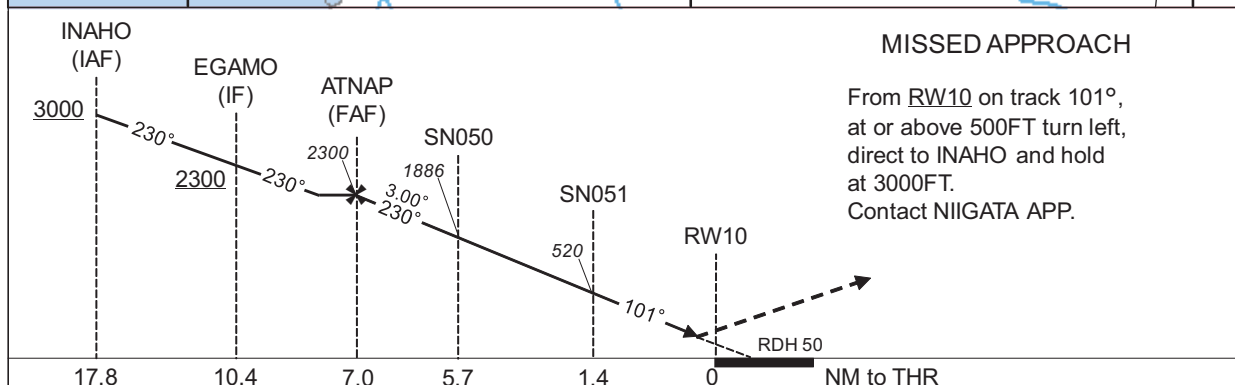
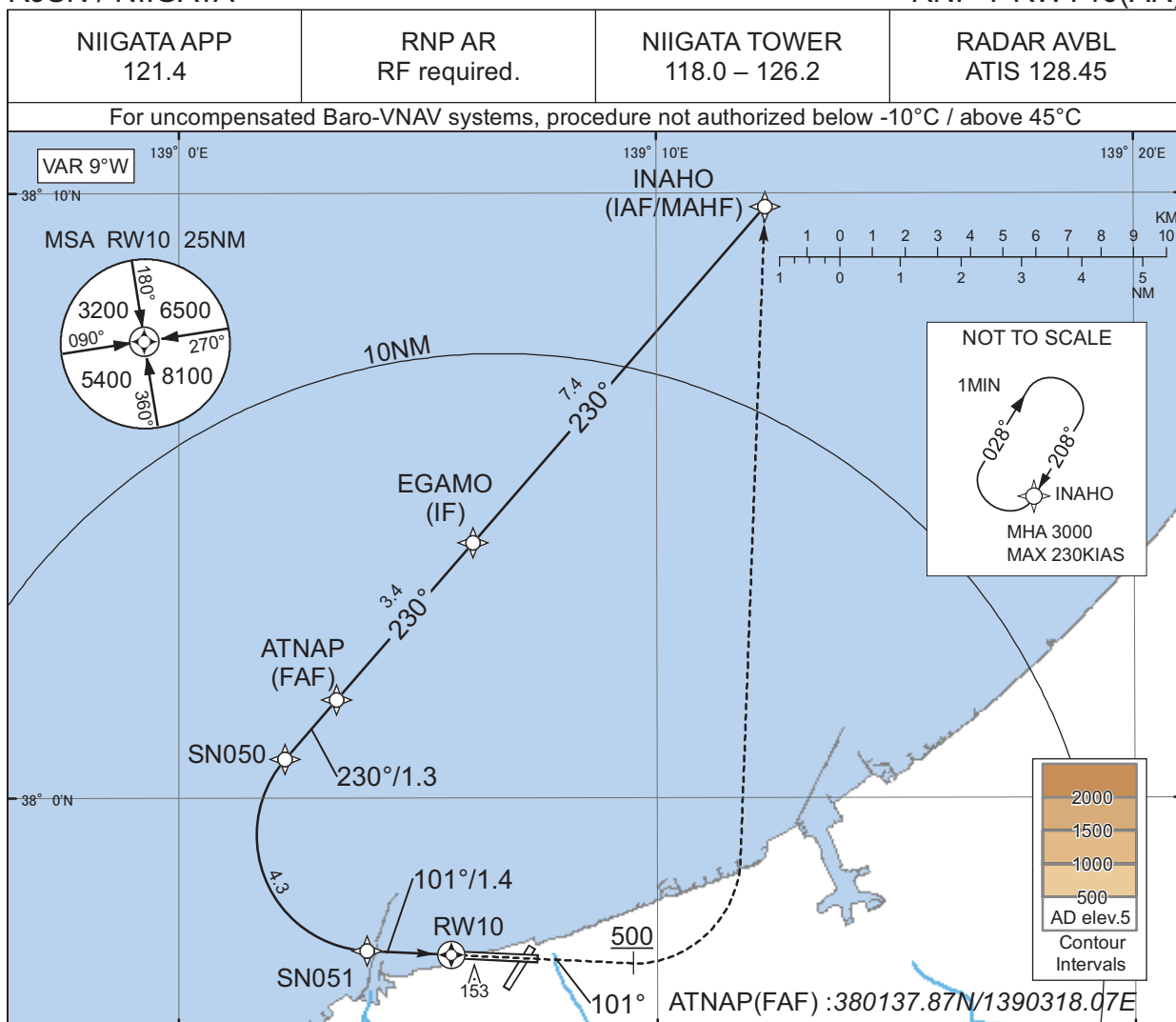
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSN / NIIGATA

RNP Y RWY10(AR)



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

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VOR RWY10



INTENTIONALLY LEFT BLANK

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Visual REP



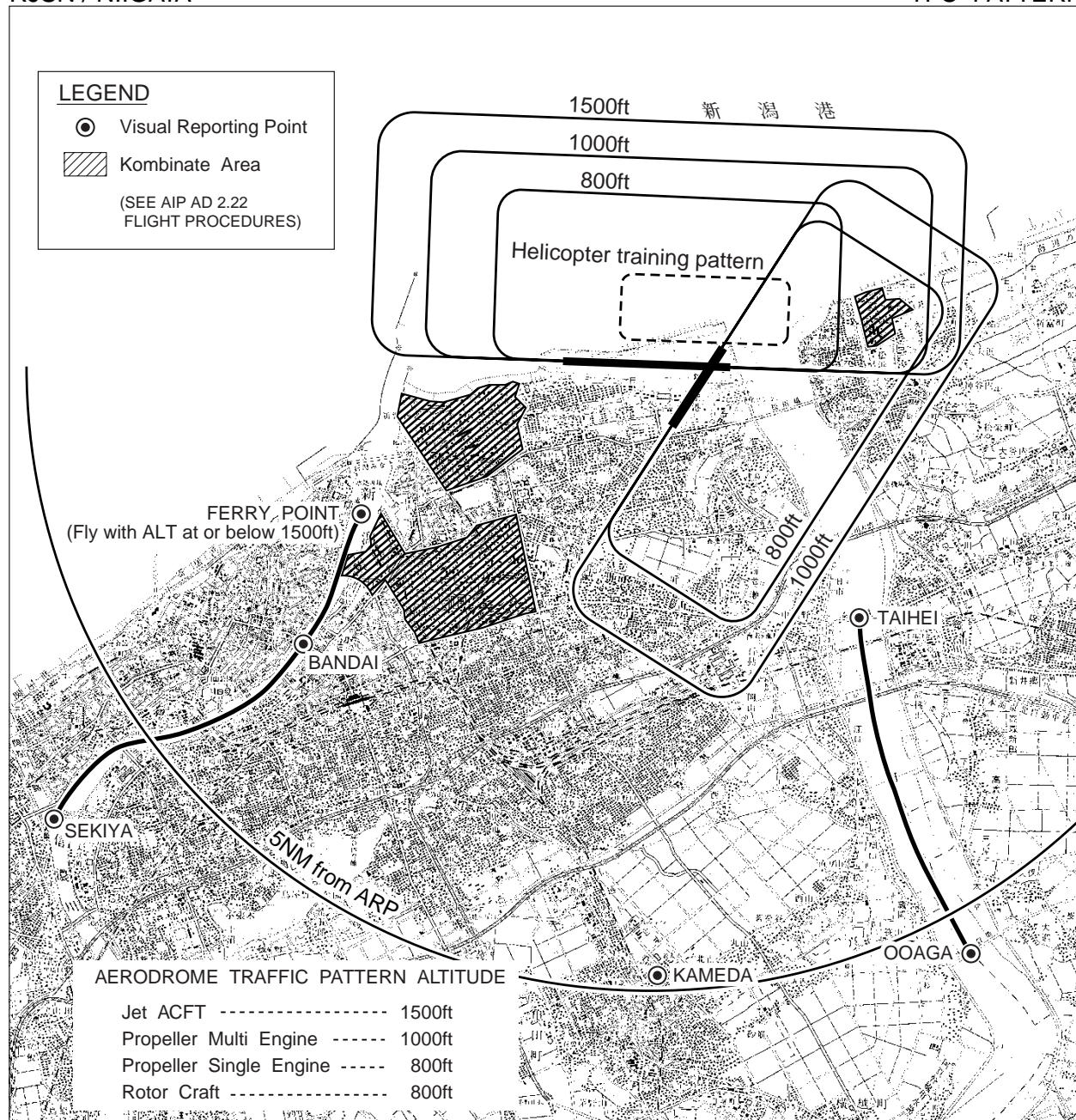
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

| 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

