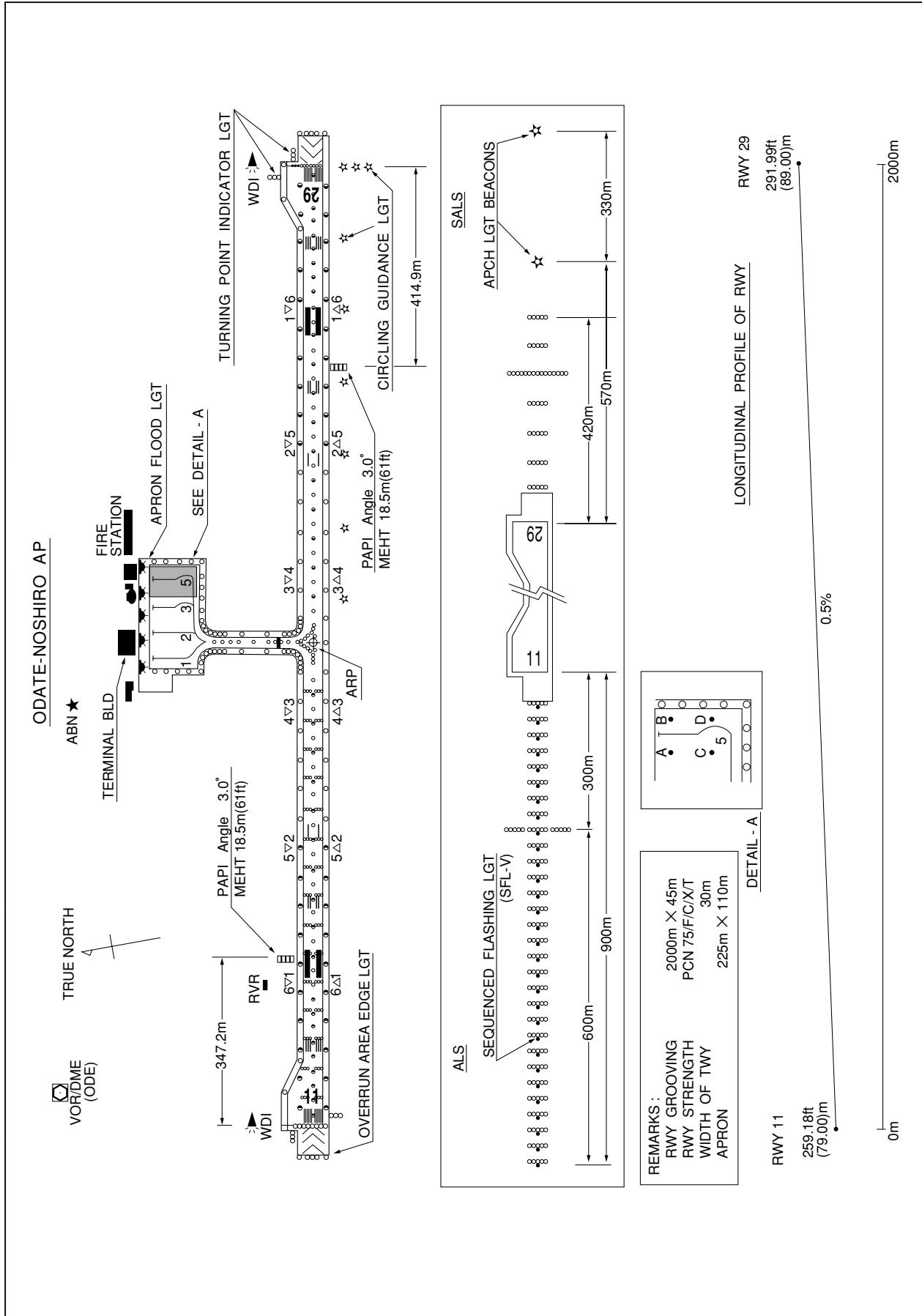


RJSR / ODATE-NOSHIRO

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

ODATE REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to 6.0DME, turn left, direct to ODE VOR/DME.

Cross ODE VOR/DME at or above 6000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

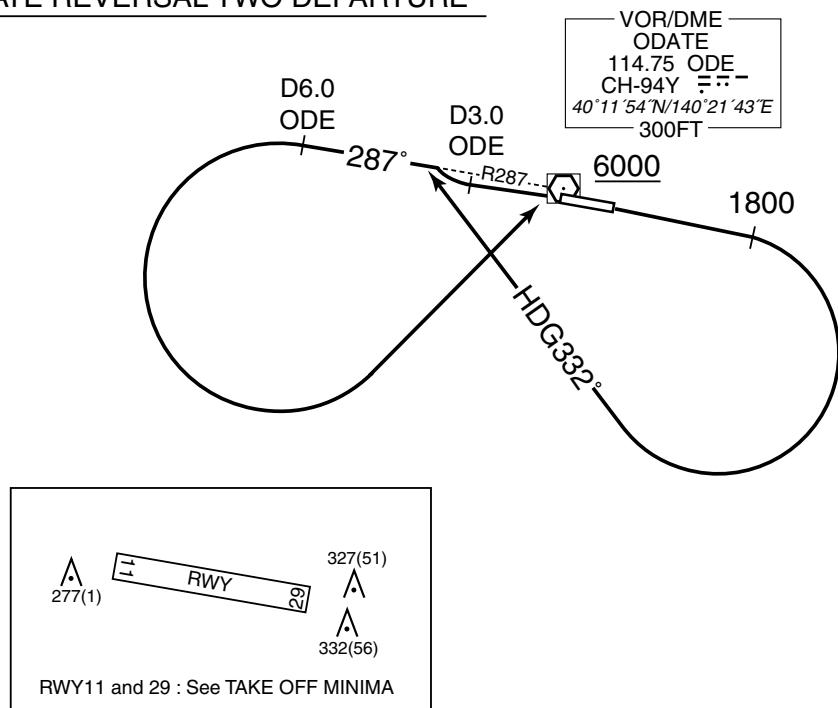
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

ODATE REVERSAL TWO DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

LAGOON THREE DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to NOSSY, turn left, via UWE R360 to UWE VOR/DME.

Cross NOSSY at or above 3000FT.

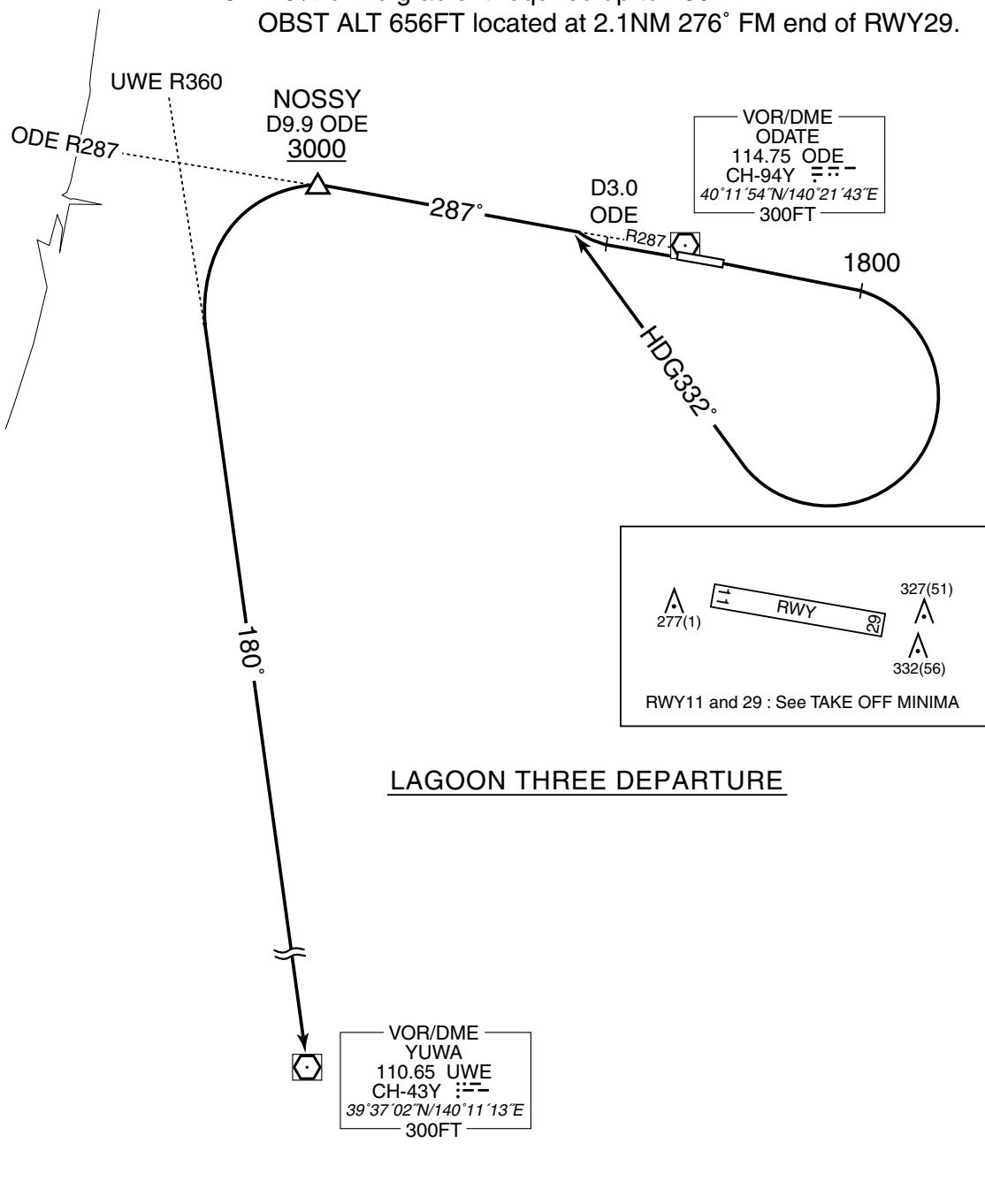
Note RWY11 : 5.0% climb gradient required up to 1800FT.

OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

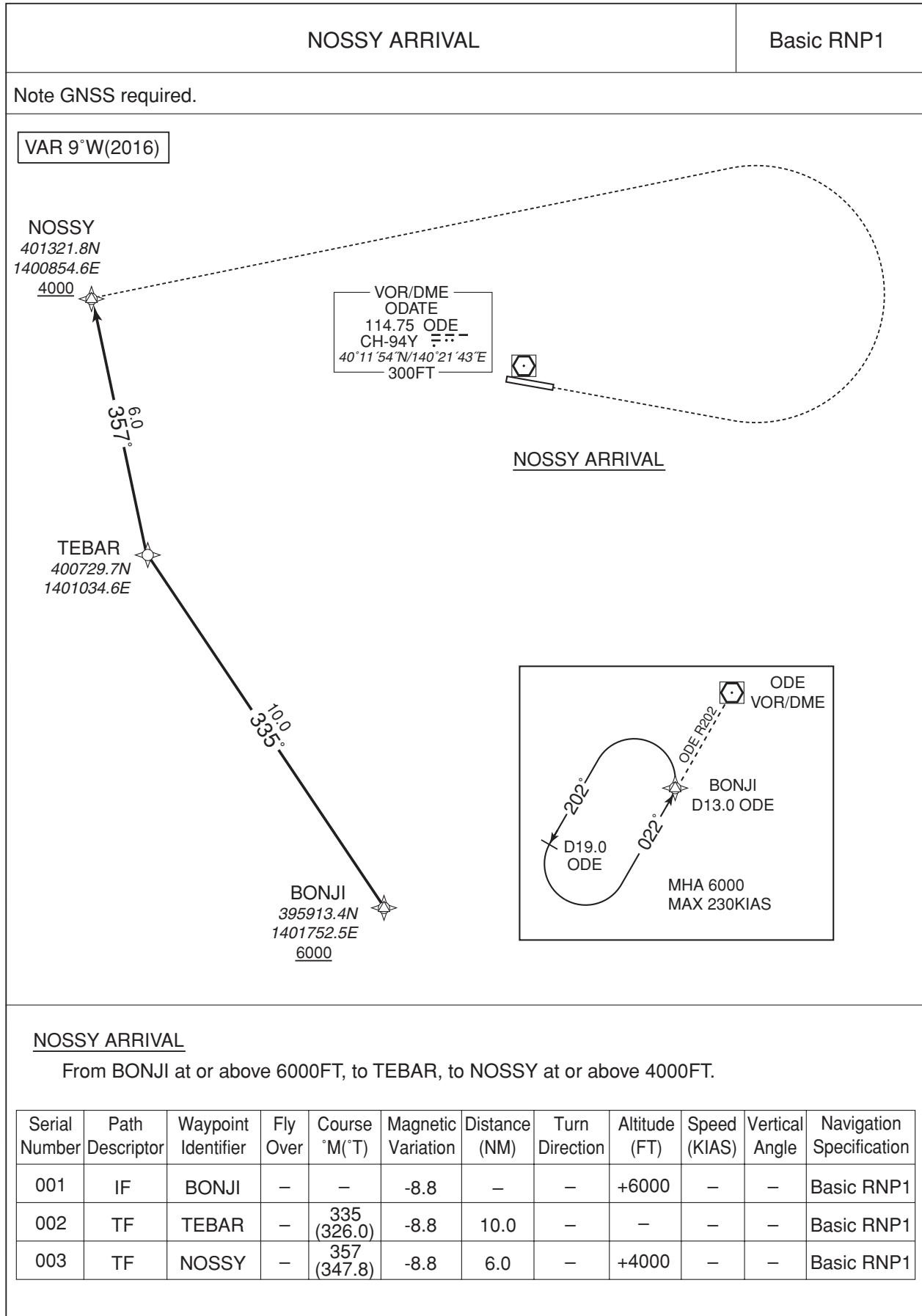
OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.



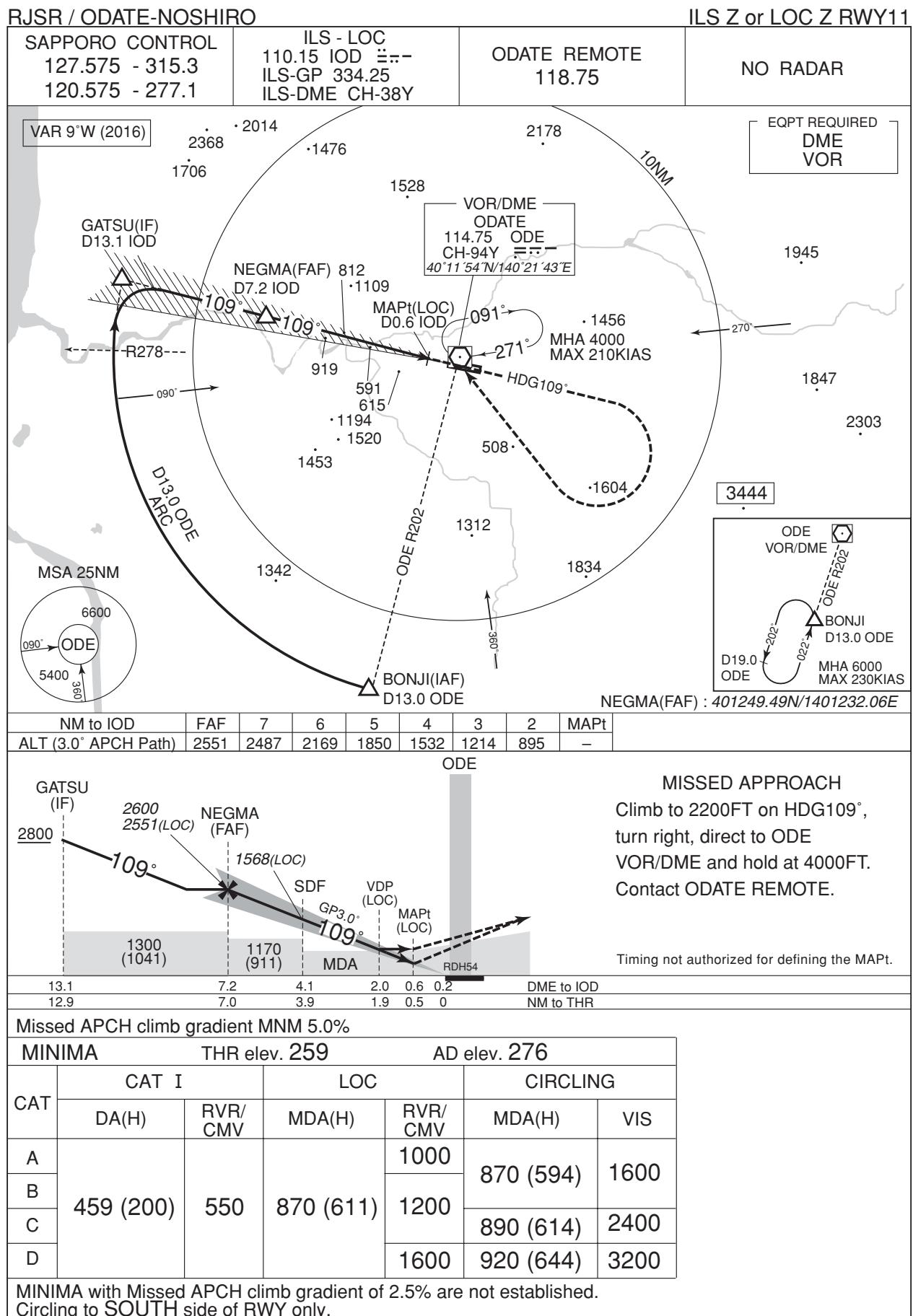
STANDARD ARRIVAL CHART - INSTRUMENT

RJSR / ODATE-NOSHIRO

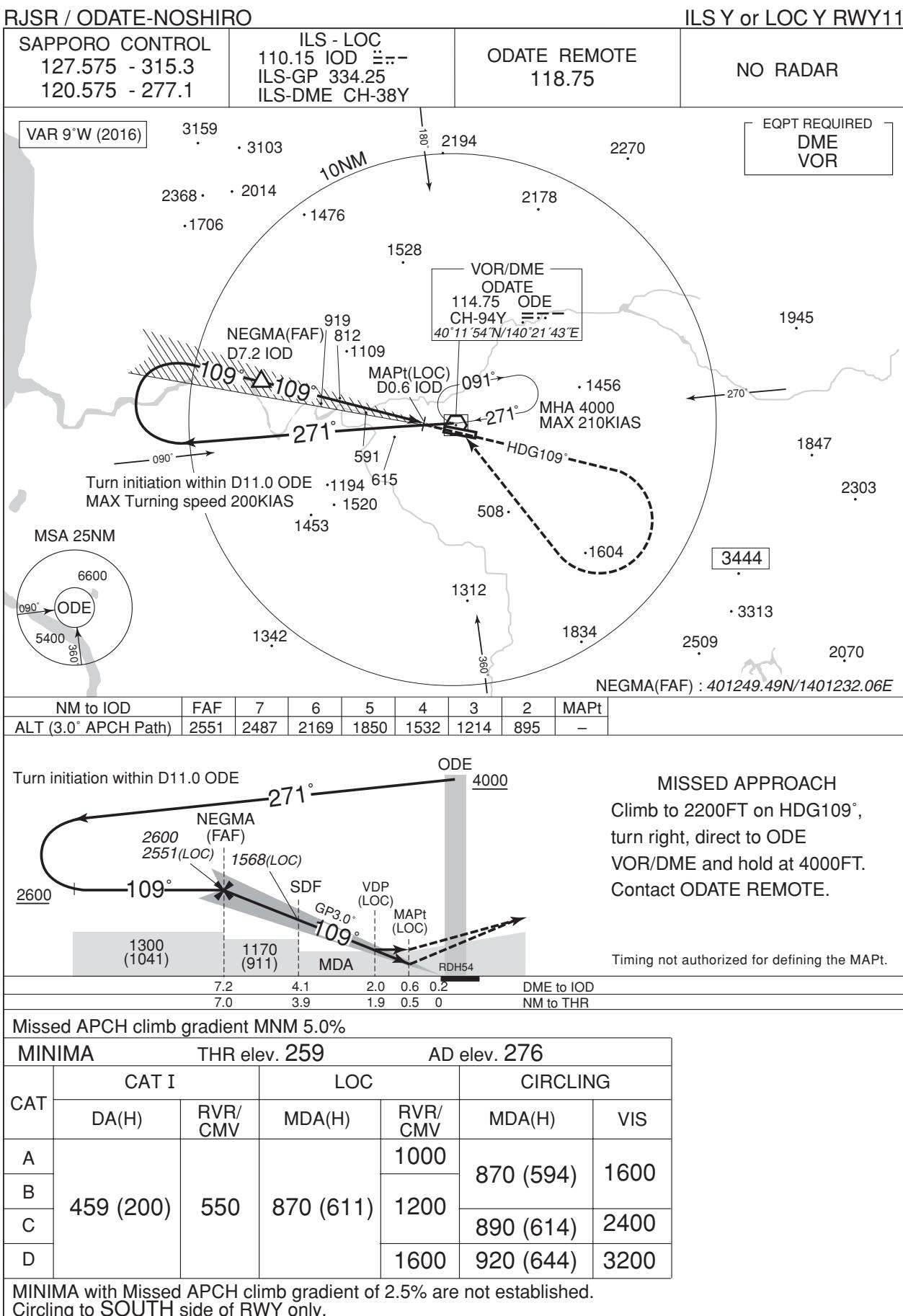
RNAV STAR RWY29



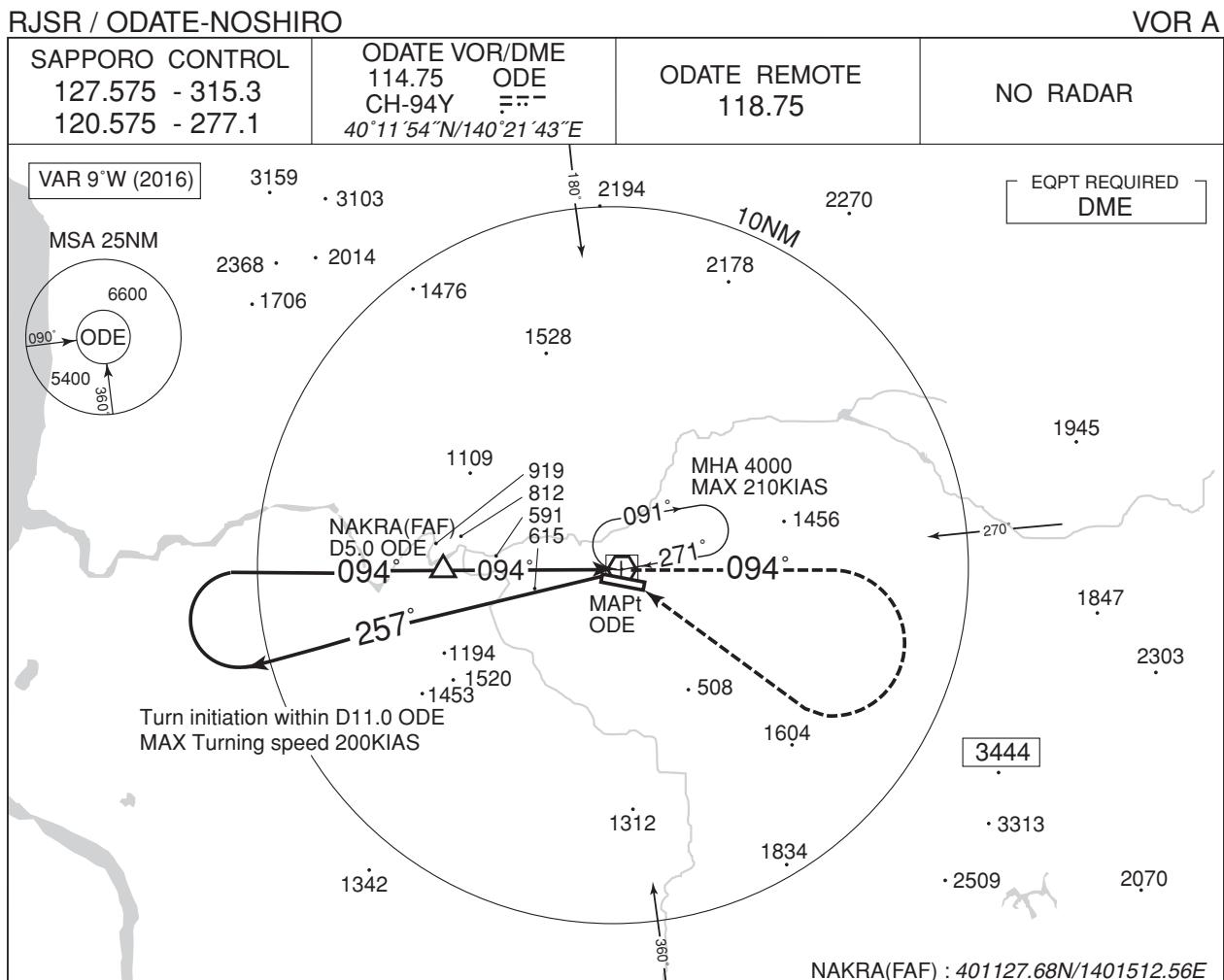
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

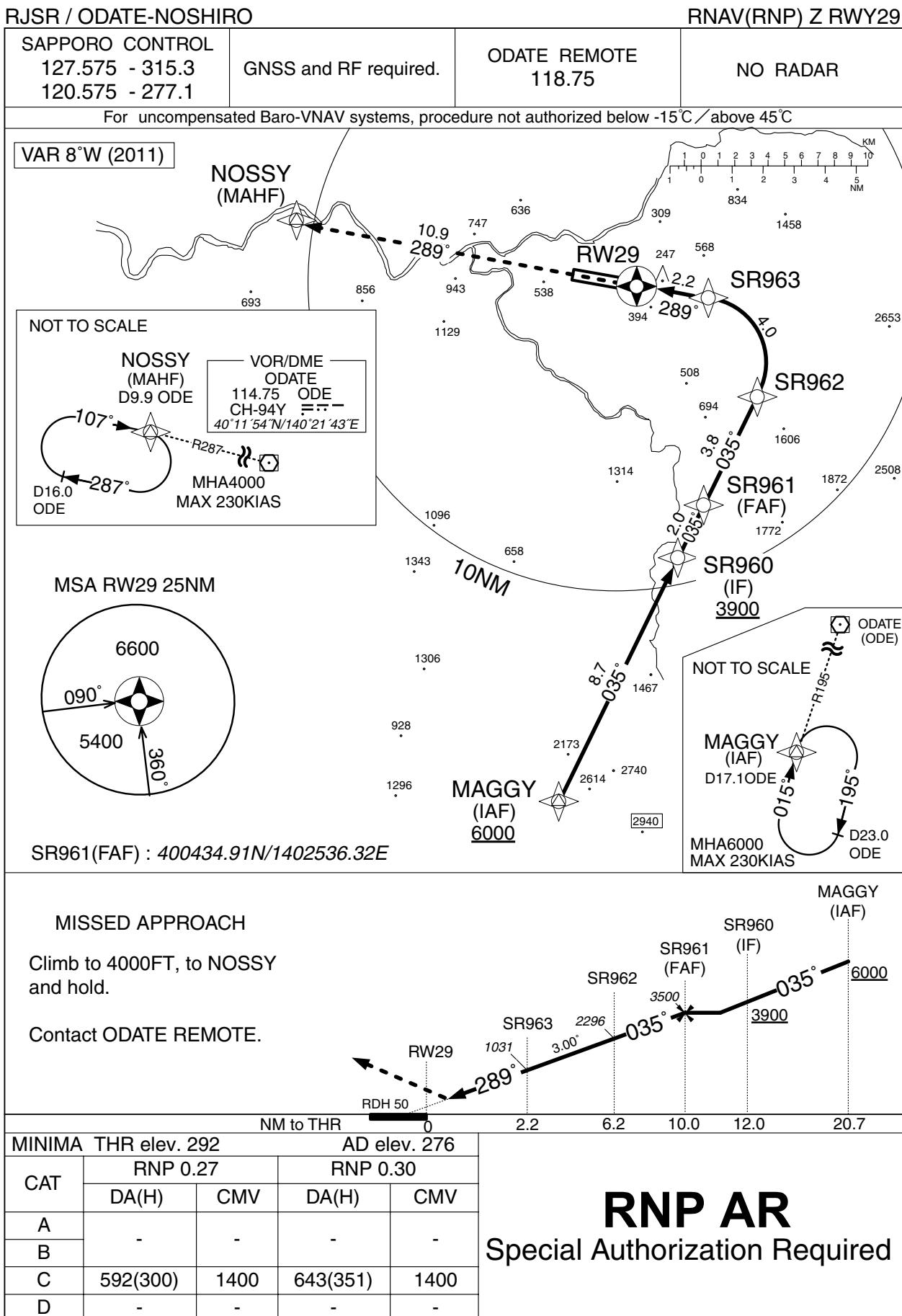


Missed APCH climb gradient MNM 4.0%

| MINIMA | | AD elev. 276 |
|--------|-----------|--------------|
| CAT | CIRCLING | |
| | MDA(H) | VIS |
| A | 870 (594) | 1600 |
| B | 890 (614) | 2400 |
| C | 920 (644) | 3200 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

RNAV(RNP) Z RWY29

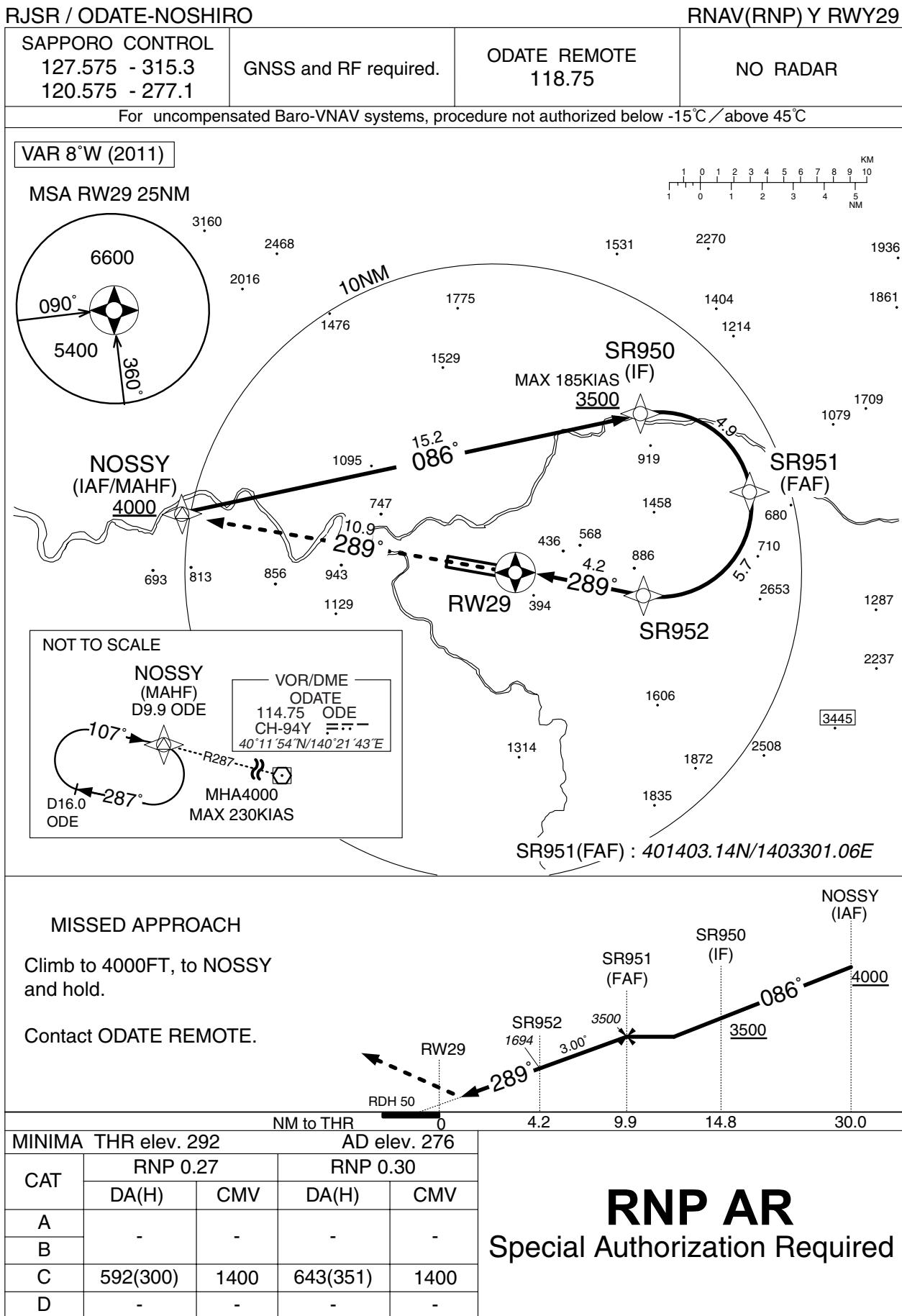
Coding Table

| 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 | MAGGY | — | — | -8.5 | — | — | +6000 | — | — | — |
| 002 | TF | SR960 | — | 035 (026.1) | -8.5 | 8.7 | — | +3900 | — | — | 1.0 |
| 003 | TF | SR961 | — | 035 (026.1) | -8.5 | 2.0 | — | 3500 | — | — | 1.0 |
| 004 | TF | SR962 | — | 035 (026.1) | -8.5 | 3.8 | — | 2296 | — | -3.00 | 0.27 0.30 |
| 005 | RF Center: SRRF1 r=2.15NM | SR963 | — | — | -8.5 | 4.0 | L | 1031 | — | -3.00 | 0.27 0.30 |
| 006 | TF | RW29 | Y | 289 (280.1) | -8.5 | 2.2 | — | 342 | — | -3.00/50 | 0.27 0.30 |
| 007 | TF | NOSSY | — | 289 (280.3) | -8.5 | 10.9 | — | 4000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| MAGGY | 395456.61N / 1401926.80E | SRRF1 | 400855.54N / 1402516.24E |
| SR960 | 400247.11N / 1402427.29E | | |
| SR961 | 400434.91N / 1402536.32E | | |
| SR962 | 400758.60N / 1402746.93E | | |
| SR963 | 401102.48N / 1402545.54E | | |
| RW29 | 401125.10N / 1402258.78E | | |
| NOSSY | 401321.82N / 1400854.64E | | |

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Y RWY29

RNAV(RNP) Y RWY29

Coding Table

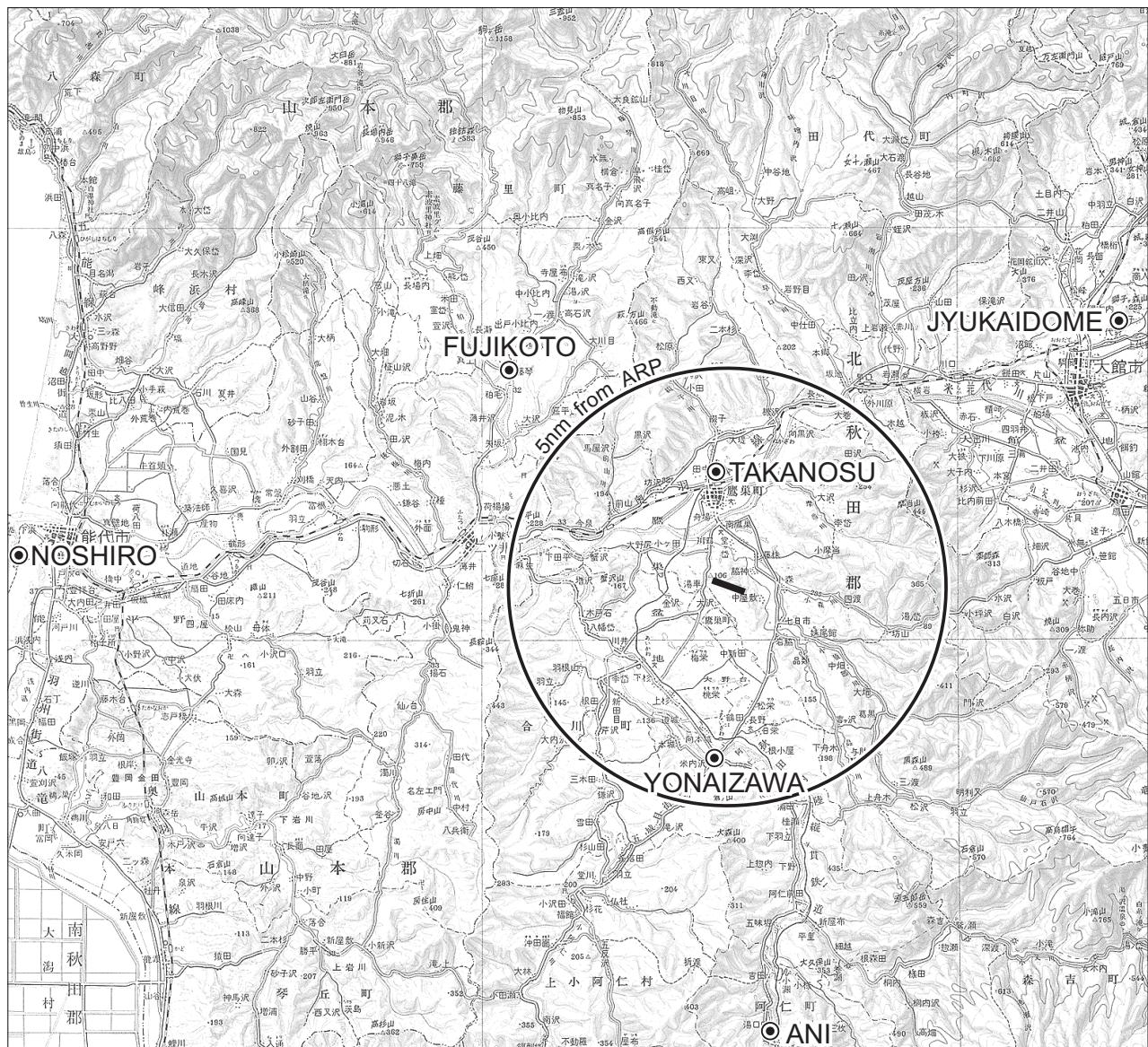
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/RDH (°/FT) | RNP Value |
|---------------|---------------------------|---------------------|----------|-----------------|--------------------|---------------|----------------|---------------|--------------|----------------|-----------|
| 001 | IF | NOSSY | — | — | -8.5 | — | — | +4000 | — | — | — |
| 002 | TF | SR950 | — | 086 (077.7) | -8.5 | 15.2 | — | +3500 | -185 | — | 1.0 |
| 003 | RF Center: SRRF2 r=3.00NM | SR951 | — | — | -8.5 | 4.9 | R | 3500 | — | — | 1.0 |
| 004 | RF Center: SRRF2 r=3.00NM | SR952 | — | — | -8.5 | 5.7 | R | 1694 | — | -3.00 | 0.27 0.30 |
| 005 | TF | RW29 | Y | 289 (280.1) | -8.5 | 4.2 | — | 342 | — | -3.00/50 | 0.27 0.30 |
| 006 | TF | NOSSY | — | 289 (280.3) | -8.5 | 10.9 | — | 4000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| SR950 | 401634.48N / 1402818.75E | SRRF2 | 401338.11N / 1402908.01E |
| SR951 | 401403.14N / 1403301.06E | | |
| SR952 | 401040.53N / 1402826.85E | | |
| RW29 | 401125.10N / 1402258.78E | | |
| NOSSY | 401321.82N / 1400854.64E | | |

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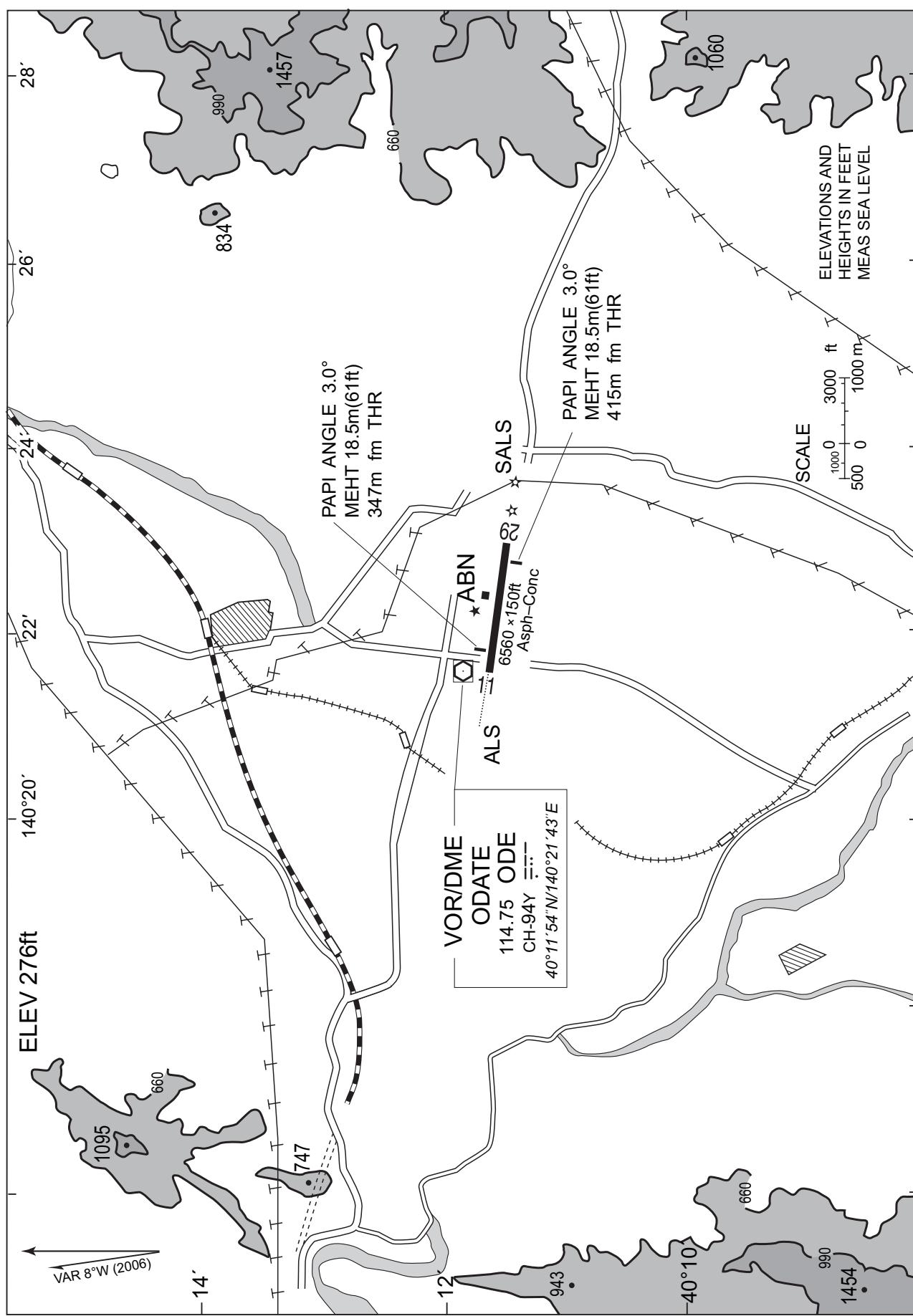
Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|---------------------|---------------------|---|
| 鷹巣 Takanosu | 356°/ 3.0NM | JR駅北側 North of JR Station |
| 藤琴 Fujikoto | 316°/ 7.0NM | 粕毛川・藤琴川交点 Intersection Kasuge and Fujikoto River |
| 樹海ドーム JyukaiDome | 058°/11.9NM | 大館市白色ドーム White Dome Odate City |
| 米内沢 Yonaizawa | 181°/ 4.2NM | 内陸線米内沢駅南側米内沢橋 Bridge |
| 能代 Noshiro | 272°/17.4NM | 能代港 Noshiro Harbor |
| 阿仁 Ani | 173°/11.8NM | 内陸線阿仁合駅 Station |

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LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART

VAR 8°W (1998)

