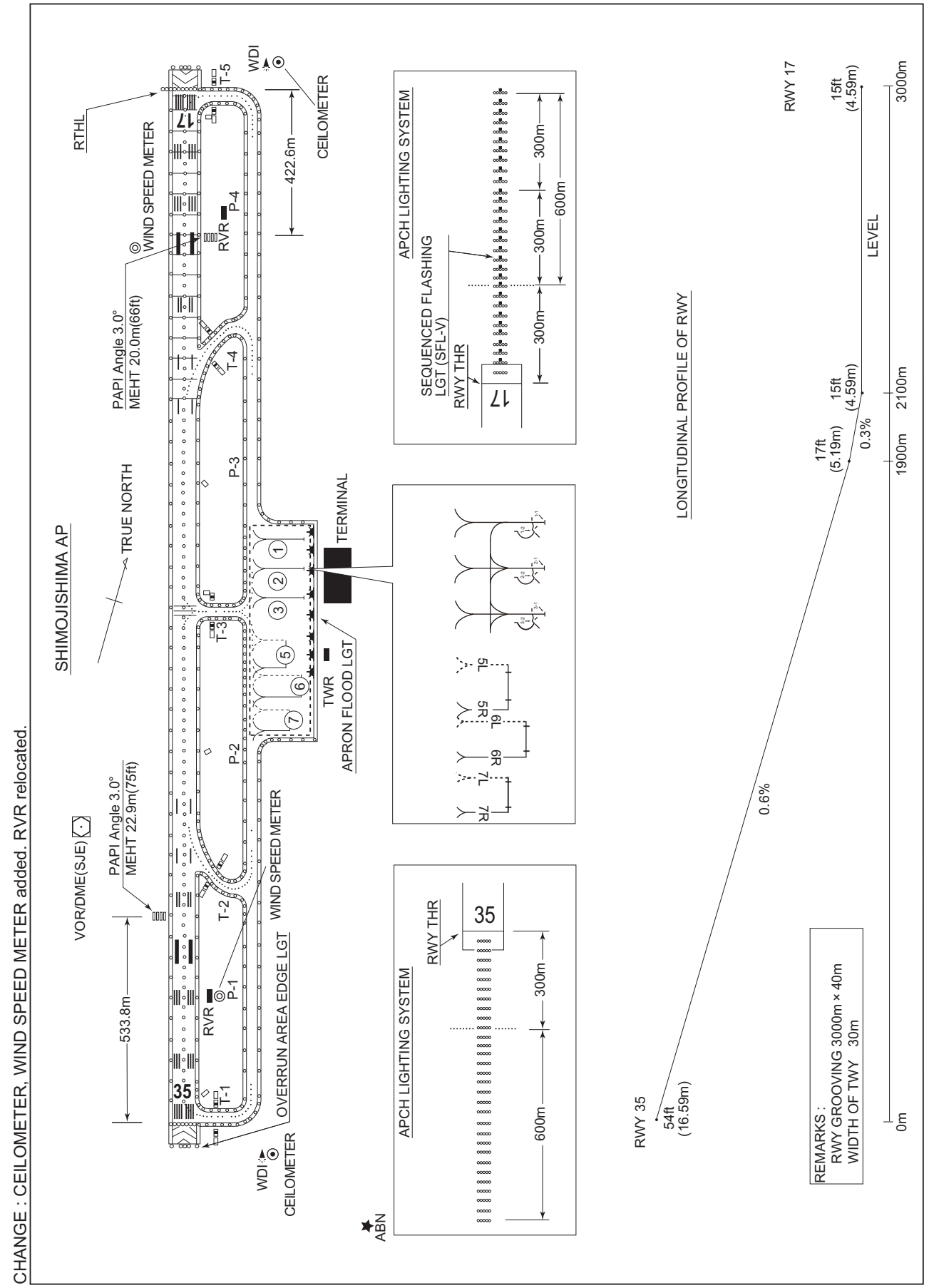
RORS / SHIMOJISHIMA AD CHART



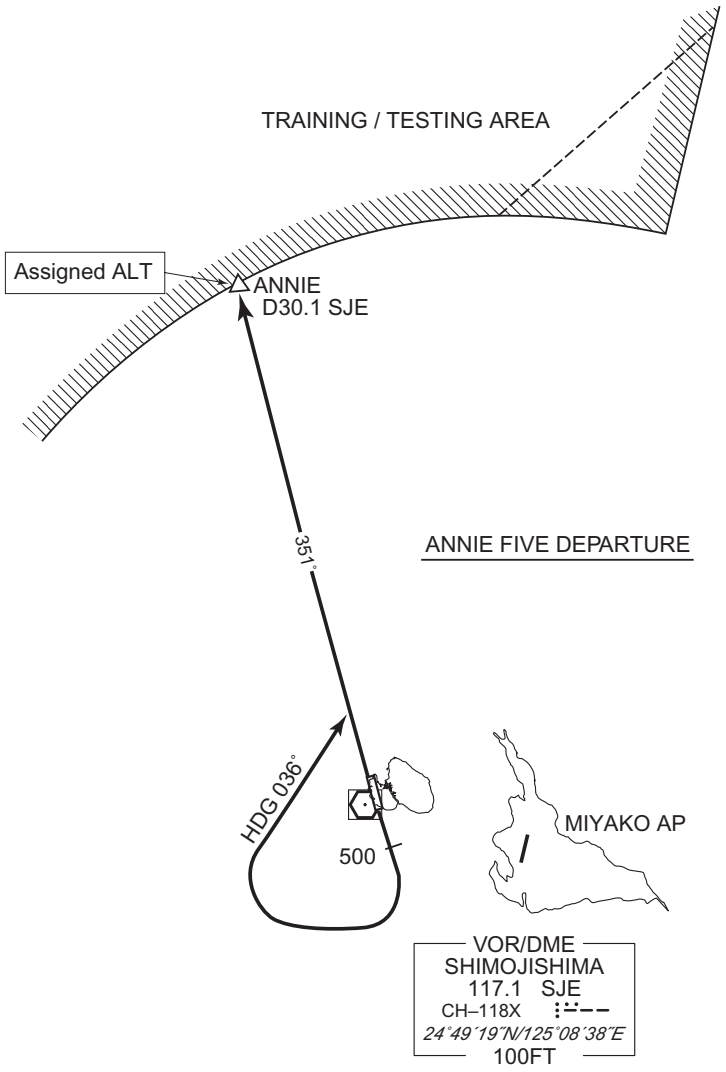
STANDARD DEPARTURE CHART - INSTRUMENT

RORS / SHIMOJISHIMA SID

ANNIE FIVE DEPARTURE

RWY17 : Climb RWY HDG to 500FT, turn right HDG036˚ to intercept and proceed ...
RWY35 : Climb ...
... via SJE R351 to ANNIE.
Cross ANNIE at assigned altitude.

Note RWY17 : 5.0% climb gradient required up to 500FT.
OBST ALT 93FT located at 0.2NM 161° FM end of RWY17.



CHANGE : PROC renamed. Note added.

STANDARD DEPARTURE CHART - INSTRUMENT

RORS / SHIMOJISHIMA SID

BETTY FIVE DEPARTURE

RWY17 : Climb RWY HDG to 500FT ...

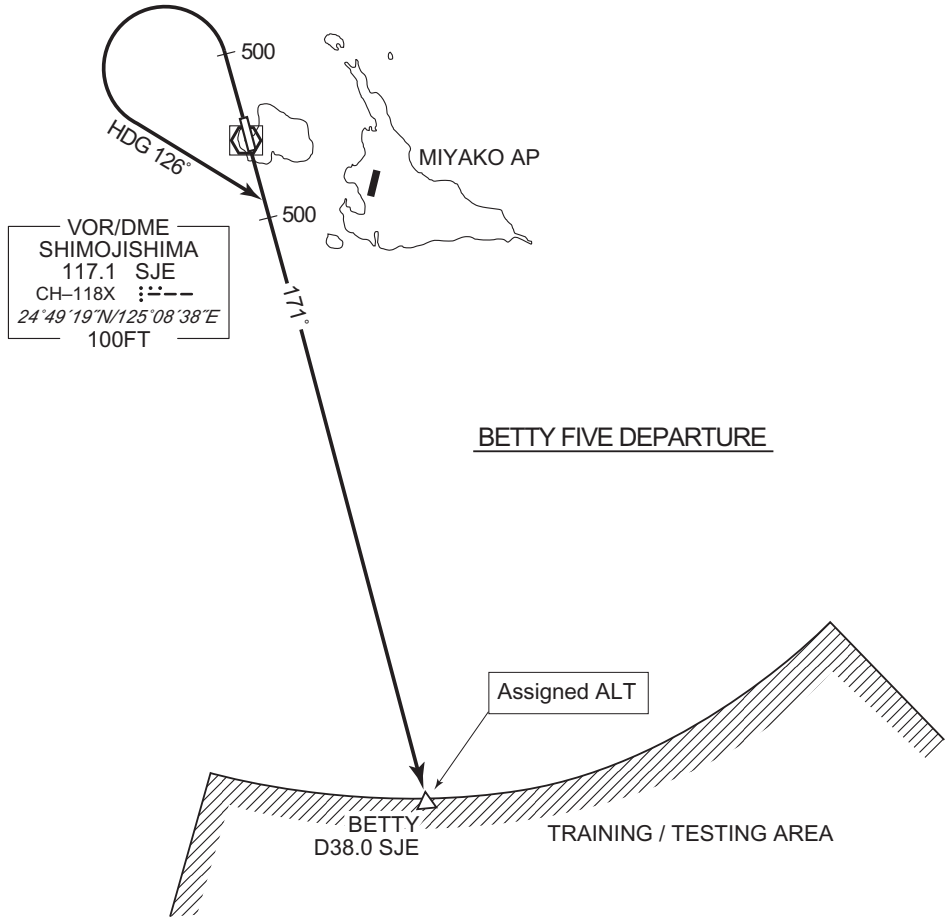
RWY35 : Climb RWY HDG to 500FT, turn left HDG 126˚ to intercept and proceed ...

... via SJE R171 to BETTY.

Cross BETTY at assigned altitude.

Note RWY17 : 5.0% climb gradient required up to 500FT.

OBST ALT 93FT located at 0.2NM 161° FM end of RWY17.



CHANGE : PROC renamed. Note added.

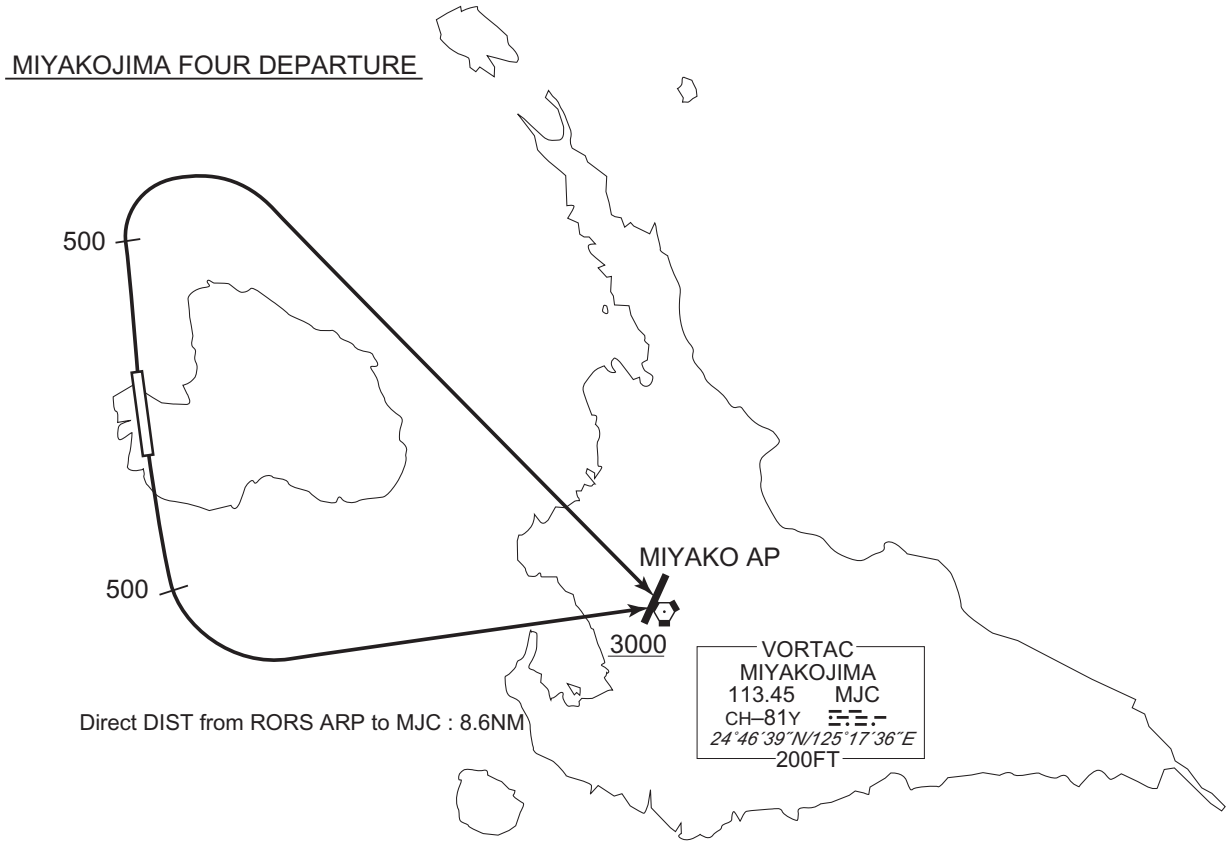
STANDARD DEPARTURE CHART - INSTRUMENT

RORS / SHIMOJISHIMA SID

MIYAKOJIMA FOUR DEPARTURE

RWY17 : Climb RWY HDG to 500FT, turn left,...
RWY35 : Climb RWY HDG to 500FT, turn right,...
...direct to MJC VORTAC. Cross MJC VORTAC at or above 3000FT.

Note RWY17 : 5.0% climb gradient required up to 500FT.
OBST ALT 93FT located at 0.2NM 161° FM end of RWY17.

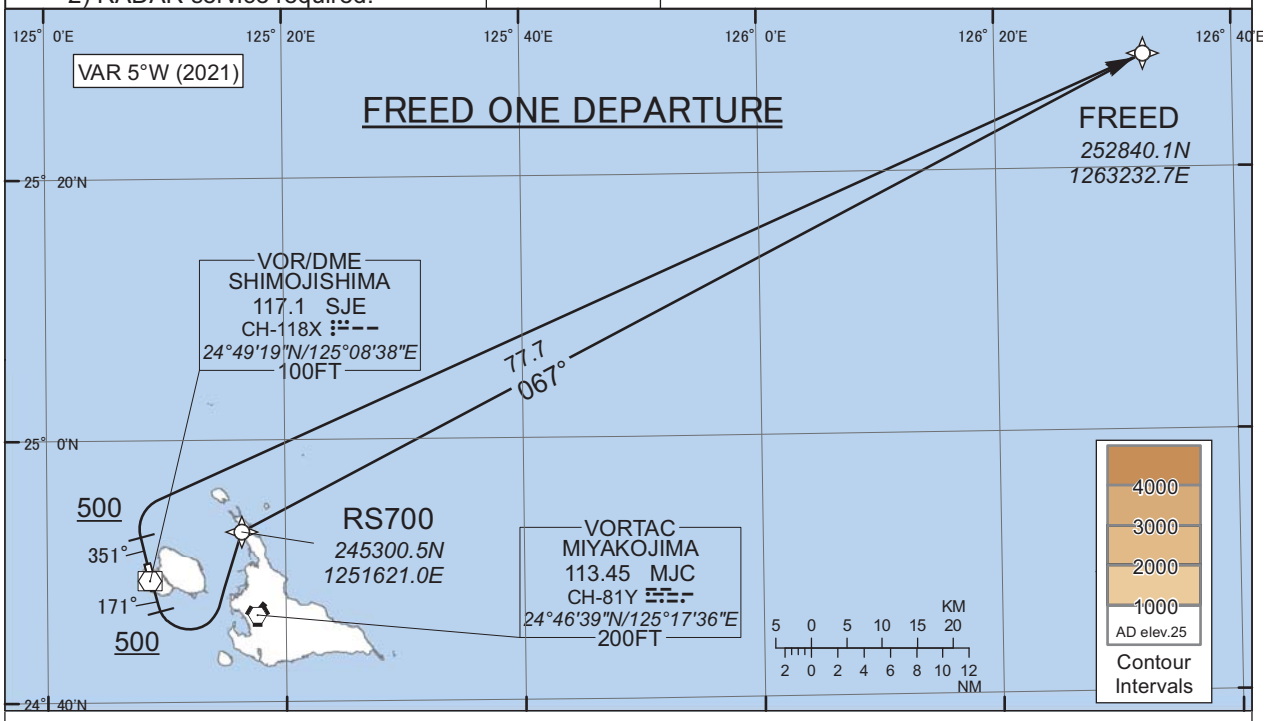


CHANGE : PROC renamed. Note added.

STANDARD DEPARTURE CHART - INSTRUMENT

RORS / SHIMOJISHIMA — RNAV SID

FREED ONE DEPARTURE		RNAV1
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	RWY17/35 KXC : 9.2NM to FREED - FREED
	DME GAP	RWY17/35 : DER - 9.2NM to FREED
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



FREED ONE DEPARTURE

RWY17 : Climb on HDG171° at or above 500FT, turn left direct to RS700, to FREED.
RWY35 : Climb on HDG351° at ot above 500FT, turn right direct to FREED.

Note RWY17 : 5.0% climb gradient required up to 500FT.
OBST ALT 93FT located at 0.2NM 161° FM end of RWY17.

RWY17

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	-	-	171 (166.1)	-5.1	-	-	+500	-	-	RNAV1
002	DF	RS700	-	-	-5.1	-	L	-	-	-	RNAV1
003	TF	FREED	-	067 (062.4)	-5.1	77.7	-	-	-	-	RNAV1

RWY35

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	-	-	351 (346.1)	-5.1	-	-	+500	-	-	RNAV1
002	DF	FREED	-	-	-5.1	-	R	-	-	-	RNAV1

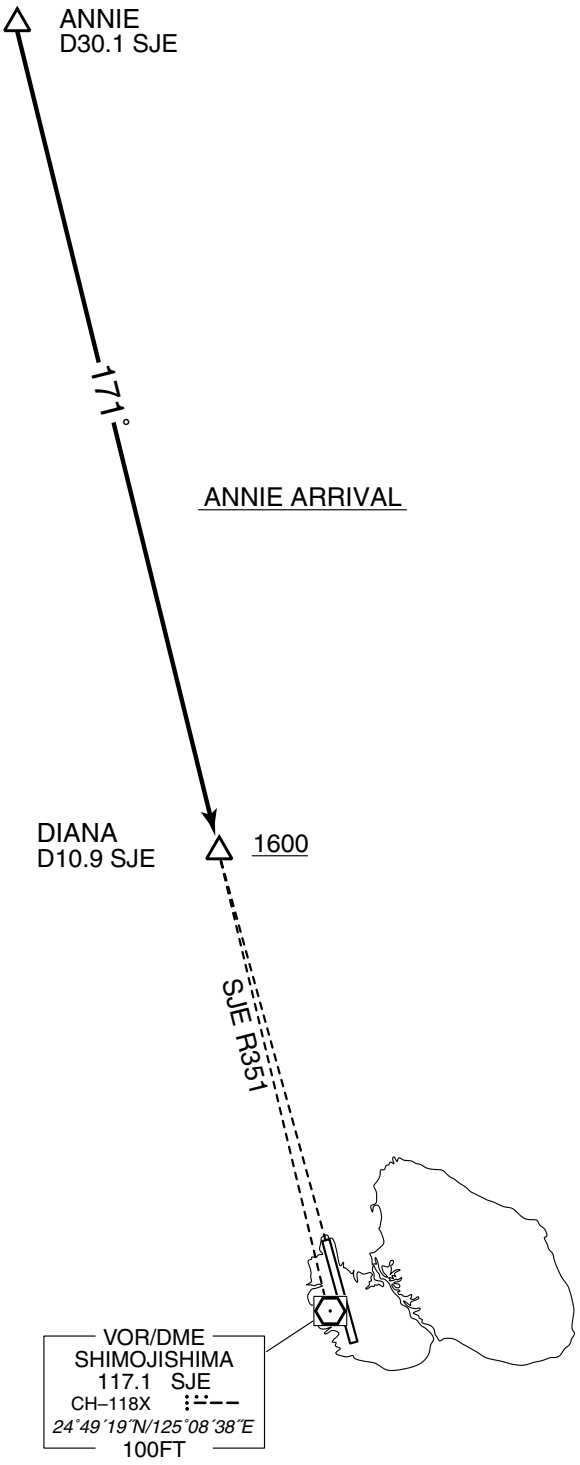
CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RORS / SHIMOJISHIMA STAR

ANNIE ARRIVAL

From over ANNIE, proceed via SJE R351 to DIANA.
Cross DIANA at or above 1600FT.



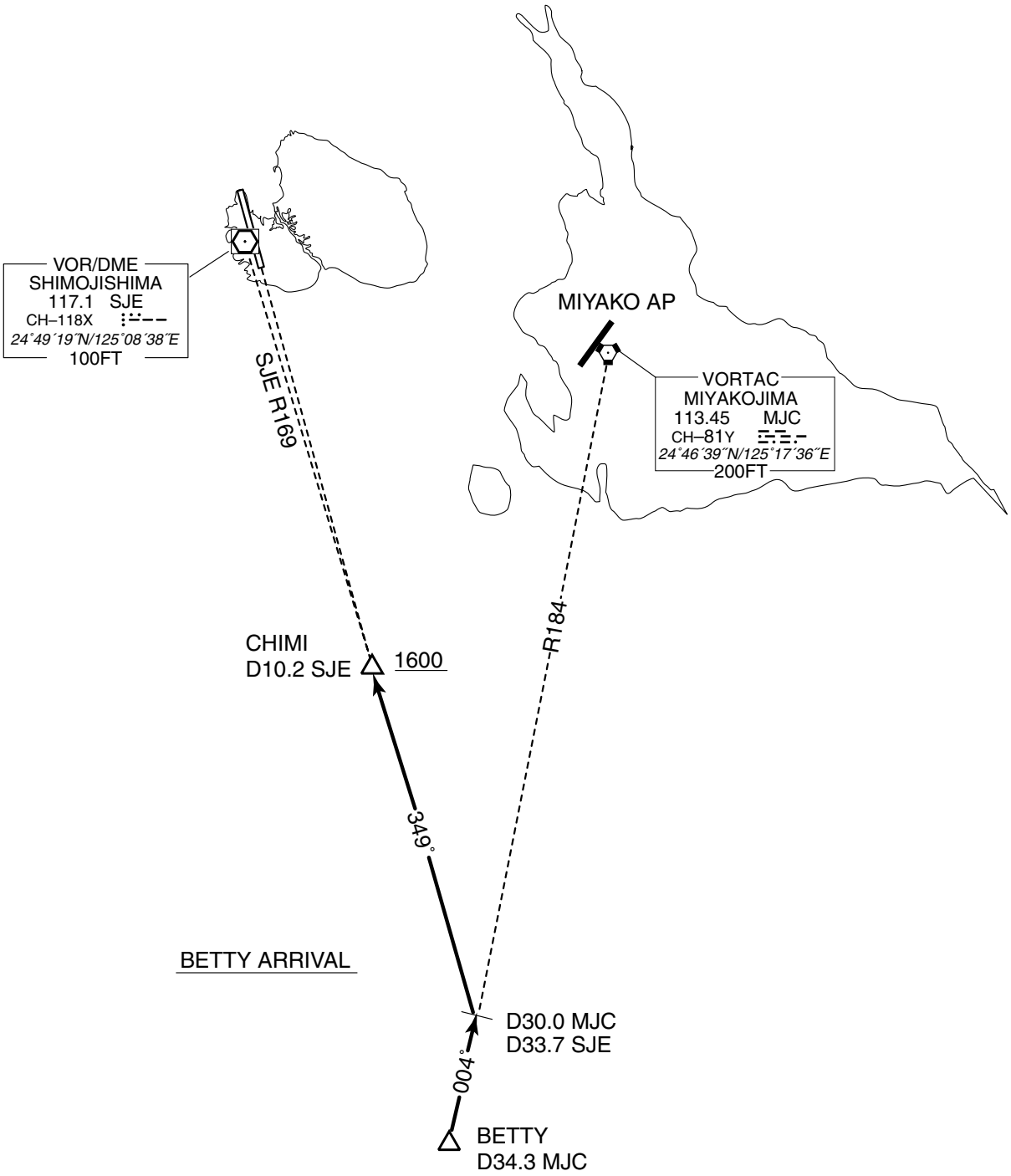
STANDARD ARRIVAL CHART - INSTRUMENT

RORS / SHIMOJISHIMA STAR

BETTY ARRIVAL

From over BETTY, proceed via MJC R184 to intercept and proceed via SJE R169 to CHIMI.

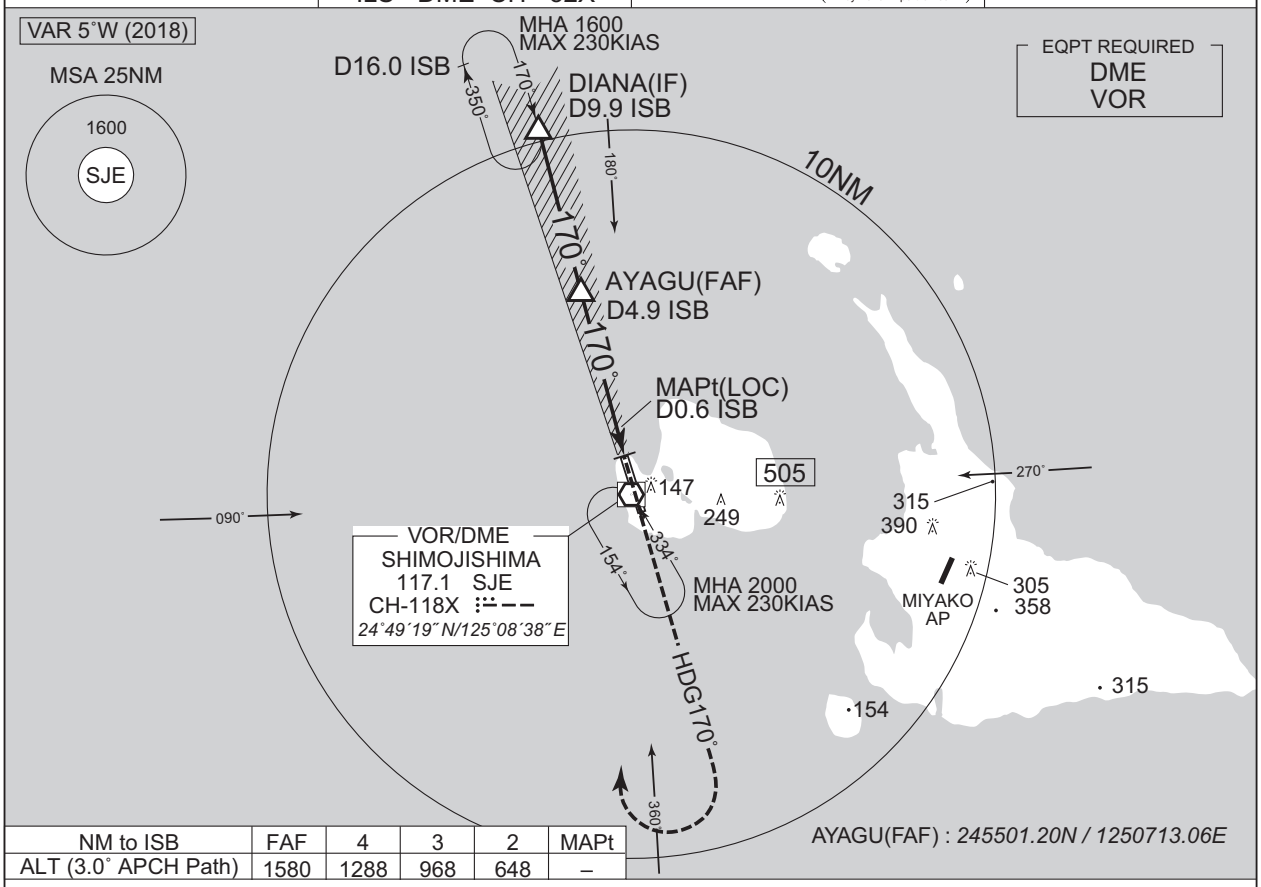
Cross CHIMI at or above 1600FT.



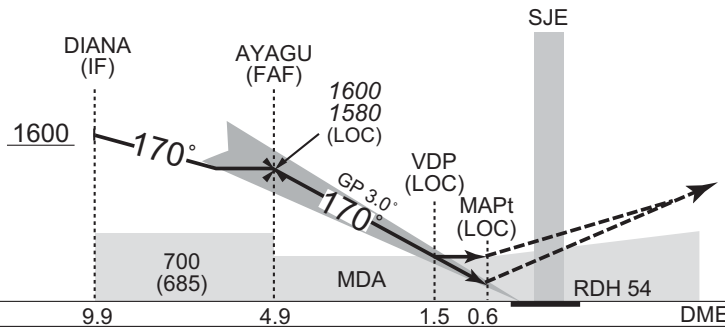
INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA — ILS Z or LOC Z RWY17

SAKISHIMA APP	ILS - LOC	SHIMOJI TOWER		RADAR AVBL
125.0 –121.2	111.5 ISB ILS - GP 332.9 ILS - DME CH - 52X	118.3 - 126.2	2300 – 0000(UTC) 0730 – 1030(UTC) SHIMOJI RADIO 118.3 AFIS provided by Naha Airport Office	



NM to ISB	FAF	4	3	2	MAPt
ALT (3.0˚ APCH Path)	1580	1288	968	648	–



MISSED APPROACH
Climb to 2000FT on HDG170˚, turn right, direct to SJE VOR/DME and hold.
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

9.9	4.9	1.5	0.6	DME to ISB
9.8	4.8	1.3	0.5 0	NM to THR

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 15 AD elev. 25

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	240 (225)	600	460 (445)	900	510 (485)	1600
B				1000		
C						2400
D				1400	580 (555)	3200

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

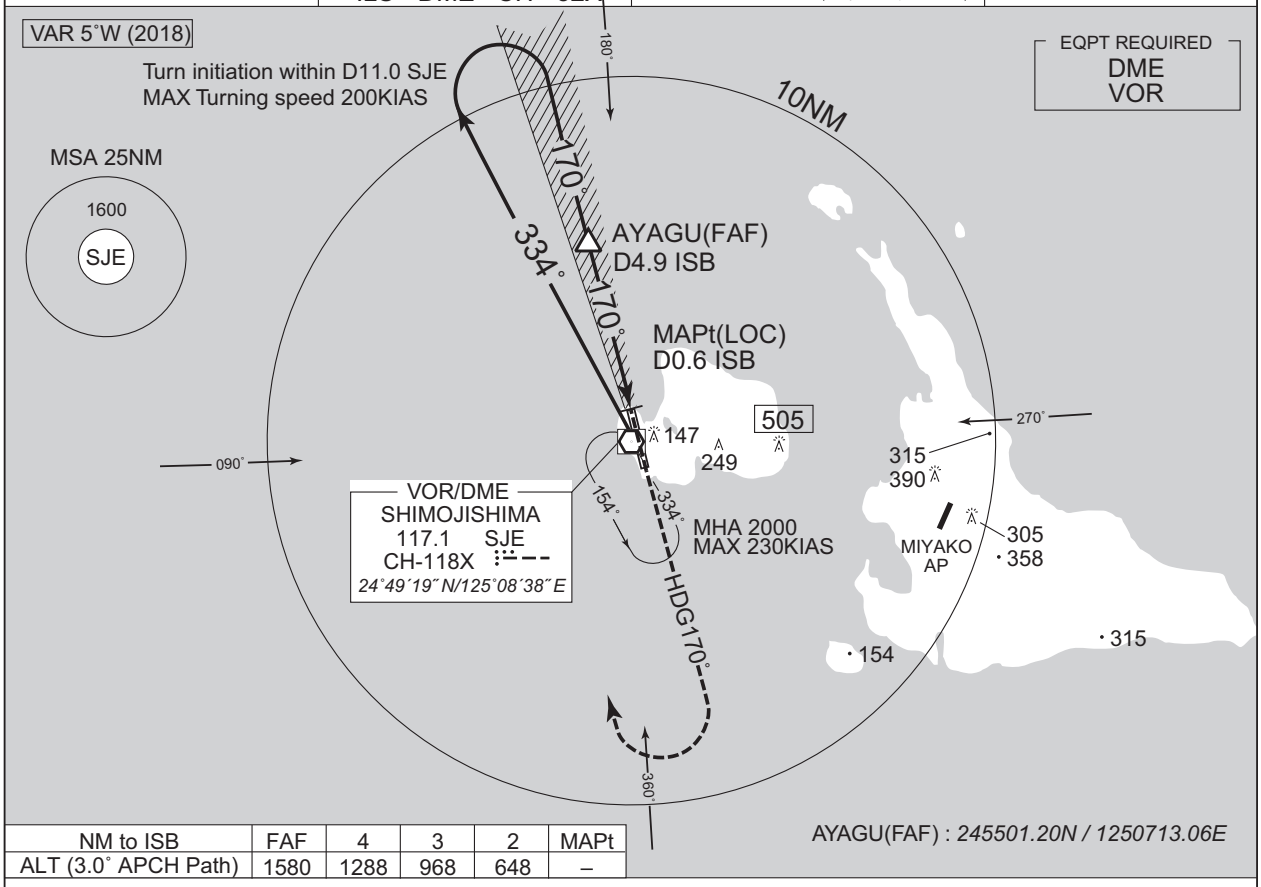
CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA

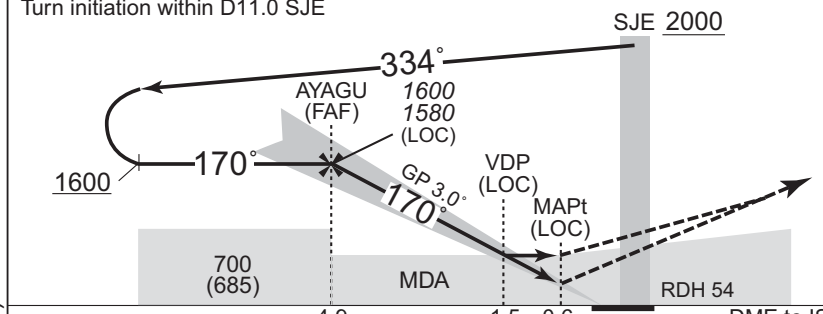
ILS Y or LOC Y RWY17

SAKISHIMA APP	ILS - LOC	SHIMOJI TOWER		RADAR AVBL
125.0 –121.2	111.5 ISB ILS - GP 332.9 ILS - DME CH - 52X	118.3 - 126.2	2300 – 0000(UTC) 0730 – 1030(UTC) SHIMOJI RADIO 118.3 AFIS provided by Naha Airport Office	



NM to ISB	FAF	4	3	2	MAPt
ALT (3.0° APCH Path)	1580	1288	968	648	–

AYAGU(FAF) : *245501.20N / 1250713.06E*



MISSED APPROACH

Climb to 2000FT on HDG170°, turn right, direct to SJE VOR/DME and hold.
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

4.9	1.5	0.6		DME to ISB
4.8	1.3	0.5	0	NM to THR

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 15 AD elev. 25

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	240 (225)	600	460 (445)	900	510 (485)	1600
B				1000		
C						2400
D				1400	580 (555)	3200

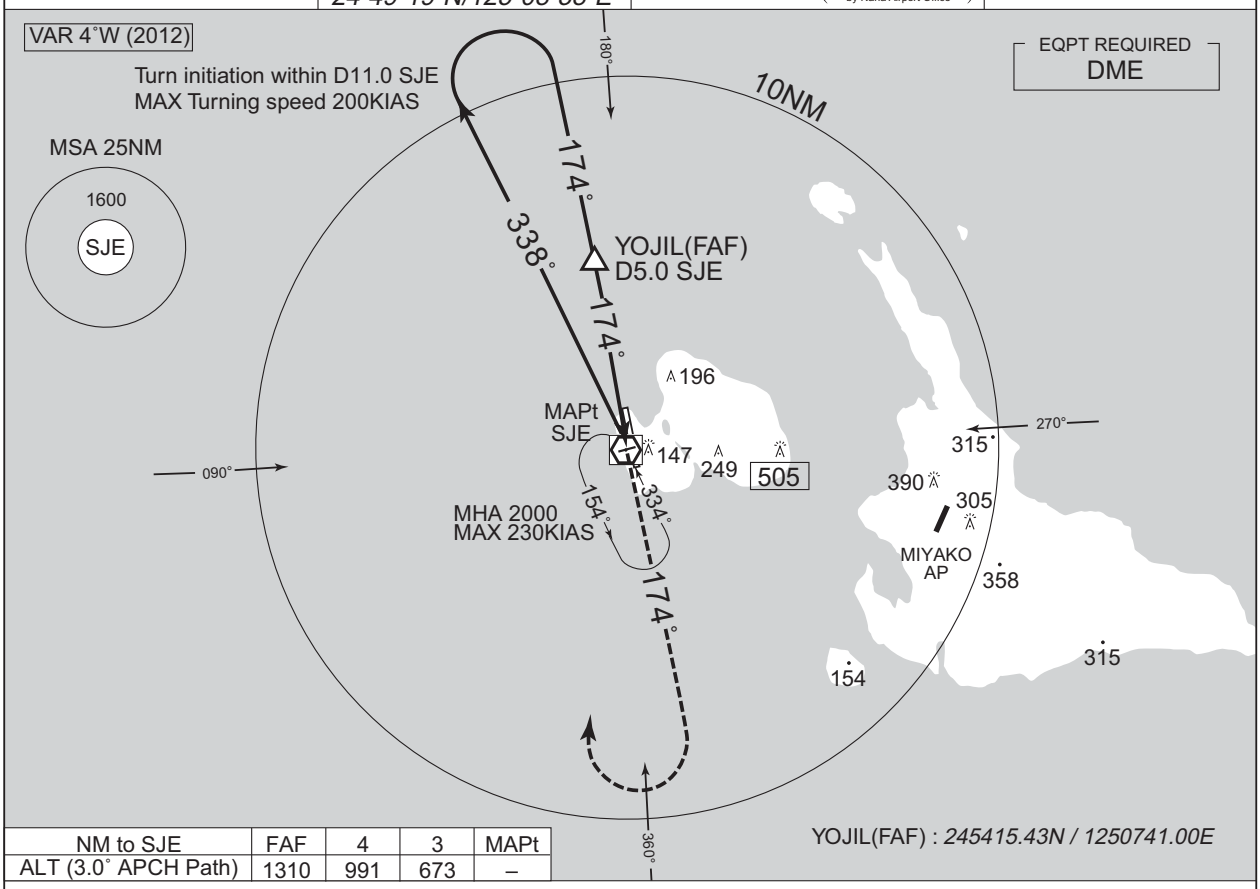
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : Call sign (REMOTE→RADIO). AFIS unit added.

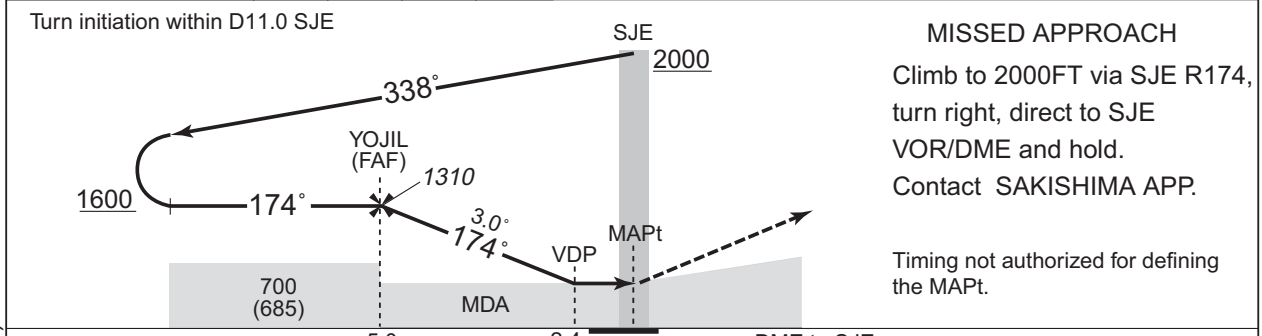
INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA VOR RWY17

SAKISHIMA APP	SHIMOJISHIMA VOR / DME	SHIMOJI TOWER	SHIMOJI RADIO	RADAR AVBL
125.0 –121.2	117.1 SJE CH-118X *24˚49´19˝N/125˚08´38˝E*	118.3 - 126.2	2300 – 0000(UTC) 0730 – 1030(UTC) 118.3 AFIS provided by Naha Airport Office	



NM to SJE	FAF	4	3	MAPt
ALT (3.0˚ APCH Path)	1310	991	673	–



MISSED APPROACH

Climb to 2000FT via SJE R174, turn right, direct to SJE VOR/DME and hold.
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

MINIMA	THR elev. 15		AD elev. 25	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	460 (445)	900	510 (485)	1600
B		1000		
C				2400
D		1400	580 (555)	3200

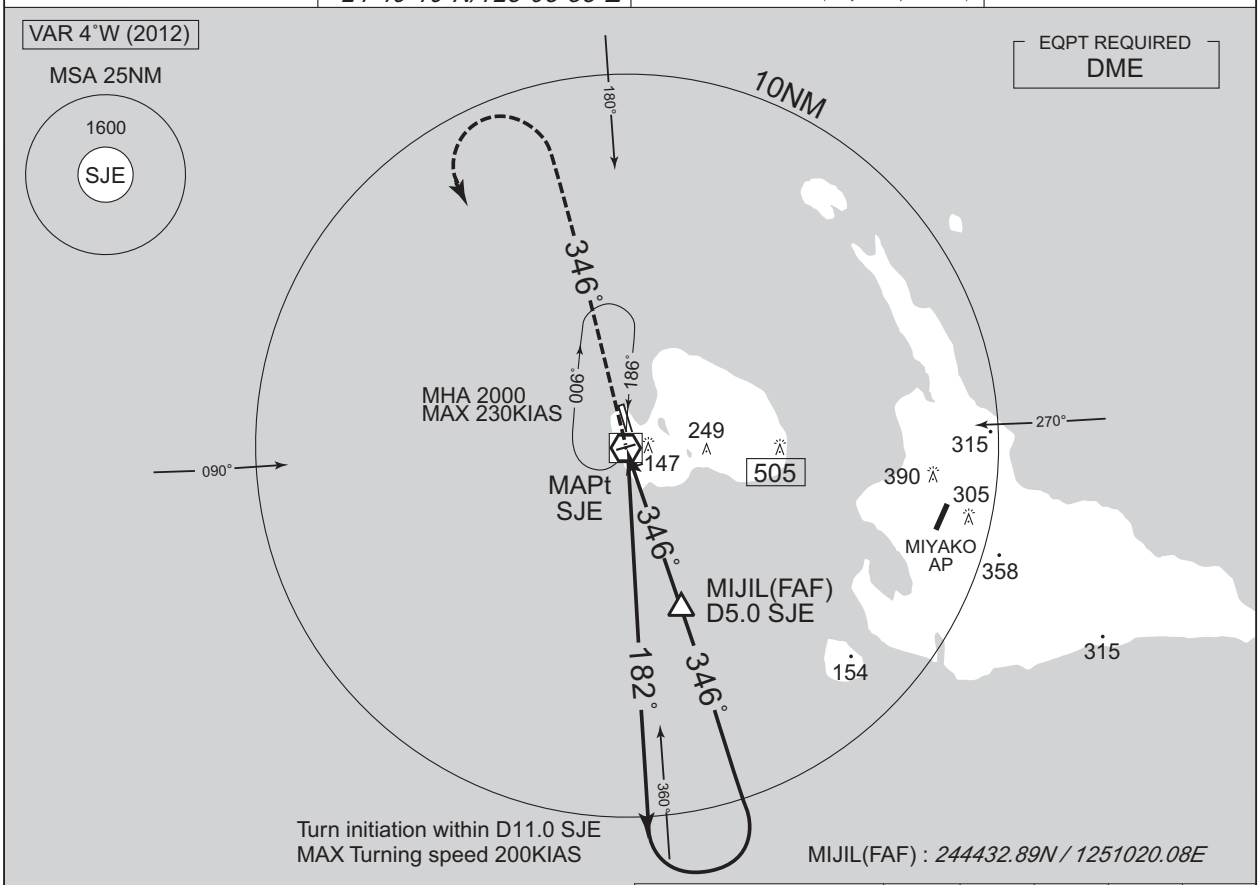
Circling to WEST side of RWY only.

CHANGE : Call sign (REMOTE→RADIO). AFIS unit added.

INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA VOR RWY35

SAKISHIMA APP	SHIMOJISHIMA VOR / DME	SHIMOJI TOWER		RADAR AVBL
125.0 –121.2	117.1 SJE CH - 118X *24˚49´19˝N/125˚08´38˝E*	118.3 - 126.2	2300 – 0000(UTC) 0730 – 1030(UTC) SHIMOJI RADIO 118.3 AFIS provided by Naha Airport Office	

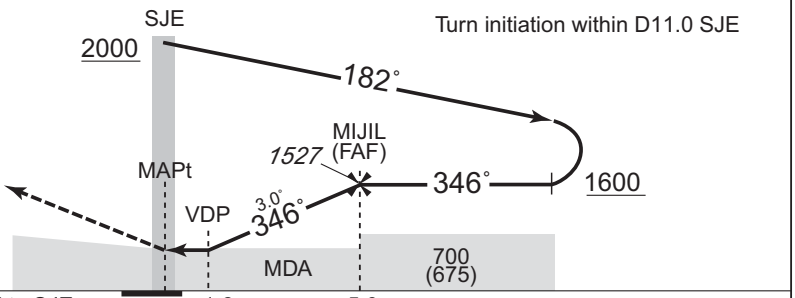


NM to SJE	MAPt	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	570	889	1208	1527

MISSED APPROACH

Climb to 2000FT via SJE R346,
turn left, direct to SJE
VOR/DME and hold.
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.



DME to SJE		1.6	5.0
NM to THR	0	1.1	4.5

MINIMA		THR elev. 54	AD elev. 25	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	460 (435)	900	510 (485)	1600
B		1000		
C				2400
D		1400	580 (555)	3200

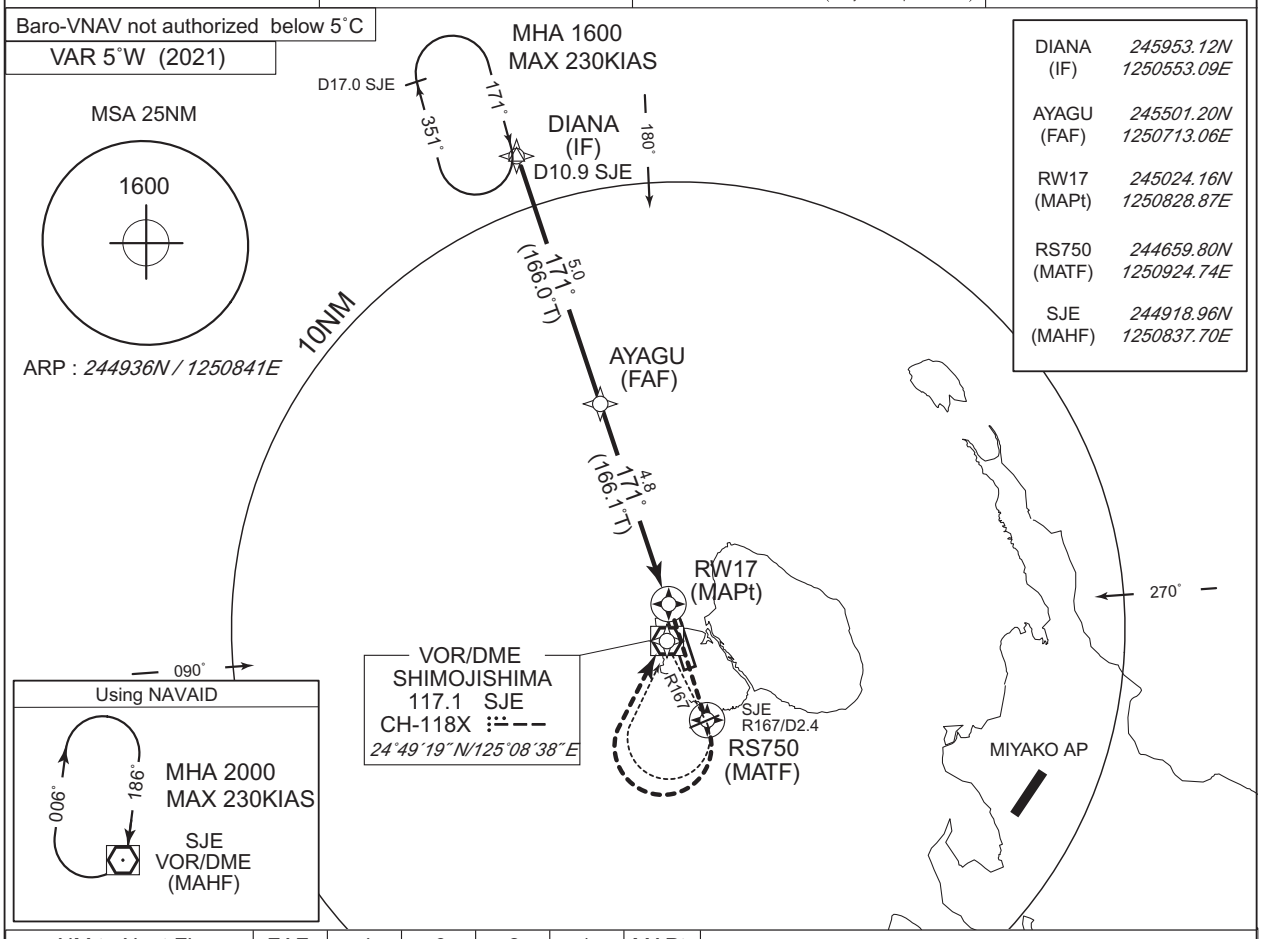
Circling to WEST side of RWY only.

CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

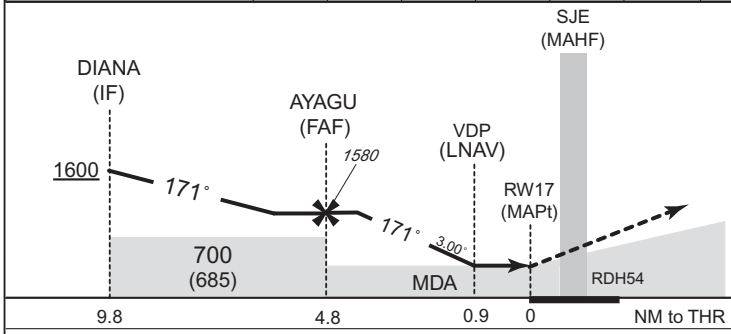
INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA — RNAV(GNSS) RWY17

SAKISHIMA APP	1 .DME/DME not authorized. 2 .RADAR service required. 3 .GNSS required.	SHIMOJI TOWER	SHIMOJI RADIO	RADAR AVBL
125.0 –121.2		118.3 - 126.2	2300 – 0000(UTC) 0730 – 1030(UTC) 118.3 AFIS provided by Naha Airport Office	



NM to Next Fix	FAF	4	3	2	1	MAPt
ALT (3.0˚ APCH Path)	1580	1343	1025	706	388	–



MISSED APPROACH

Direct to RS750, turn right direct to SJE and hold at 2000FT.
Contact SAKISHIMA APP.

(For using VOR/DME)
Climb via SJE R167 to SJE 2.4DME, turn right, direct to SJE VOR/DME and hold at 2000FT.
Contact SAKISHIMA APP.

MINIMA THR elev.15 AD elev.25

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA (H)	VIS
A	330(315)	900	330(315)	900	510(485)	1600
B		1000		1000		
C						2400
D		1400		1400	580(555)	3200

Circling to WEST side of RWY only.

CHANGE : VAR.

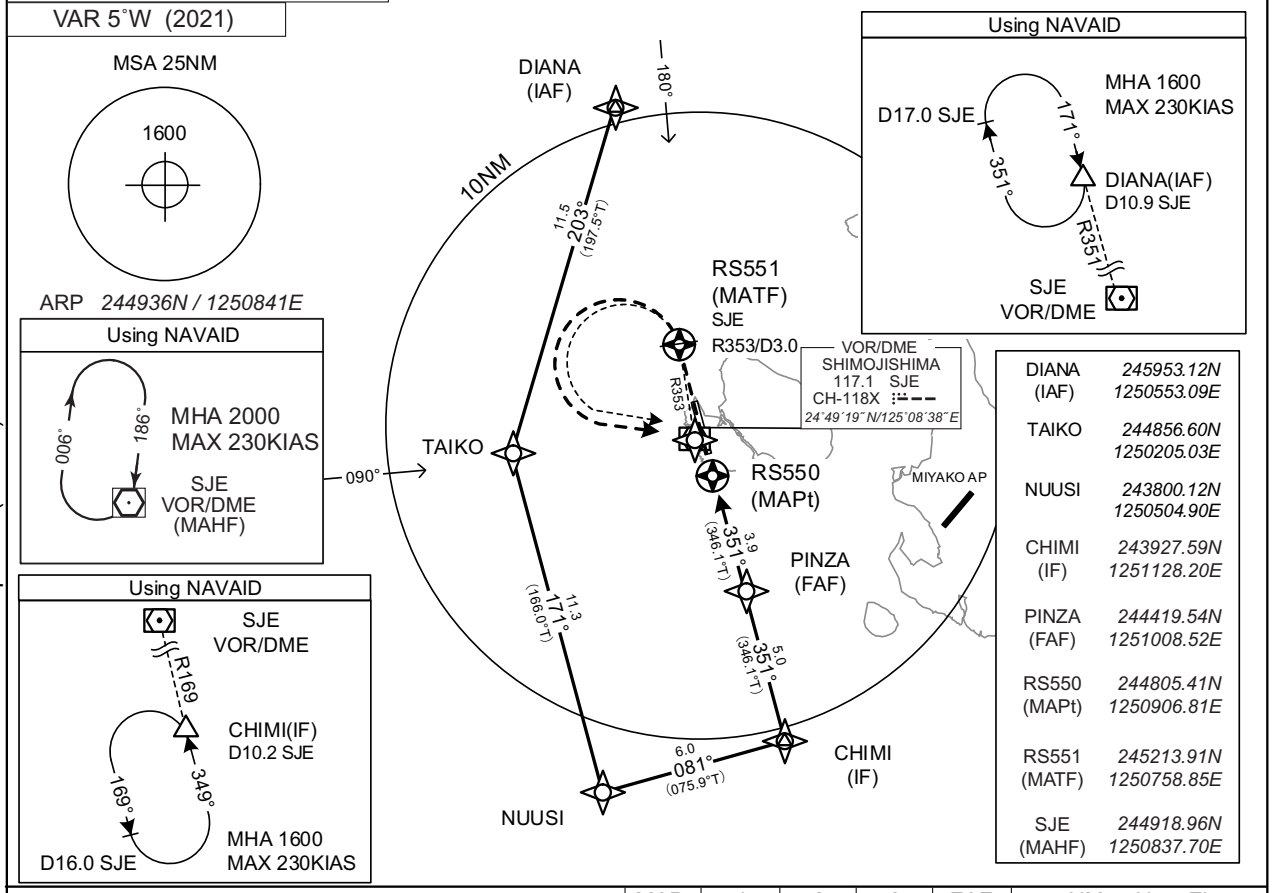
INSTRUMENT APPROACH CHART

RORS / SHIMOJISHIMA — RNAV(GNSS) RWY35

SAKISHIMA APP	1 .DME/DME not authorized. 2 .RADAR service required. 3 .GNSS required.	SHIMOJI TOWER	2300 – 0000(UTC) 0730 – 1030(UTC) SHIMOJI RADIO 118.3 AFIS provided by Naha Airport Office	RADAR AVBL
125.0 –121.2		118.3 - 126.2		

Baro-VNAV not authorized below 5˚C

VAR 5˚W (2021)



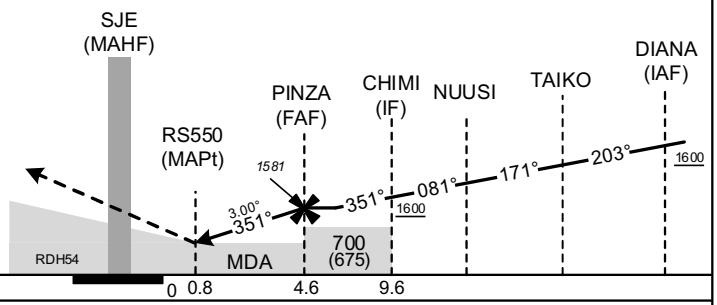
DIANA (IAF)	*245953.12N 1250553.09E*
TAIKO	*244856.60N 1250205.03E*
NUUSI	*243800.12N 1250504.90E*
CHIMI (IF)	*243927.59N 1251128.20E*
PINZA (FAF)	*244419.54N 1251008.52E*
RS550 (MAPt)	*244805.41N 1250906.81E*
RS551 (MATF)	*245213.91N 1250758.85E*
SJE (MAHF)	*244918.96N 1250837.70E*

MAPt	1	2	3	FAF	NM to Next Fix
–	668	986	1305	1581	ALT (3.0˚ APCH Path)

MISSED APPROACH

Direct to RS551, turn left direct to SJE and hold at 2000FT.
Contact SAKISHIMA APP.

(For using VOR/DME)
Climb via SJE R353 to SJE 3.0DME, turn left, direct to SJE VOR/DME and hold at 2000FT.
Contact SAKISHIMA APP.



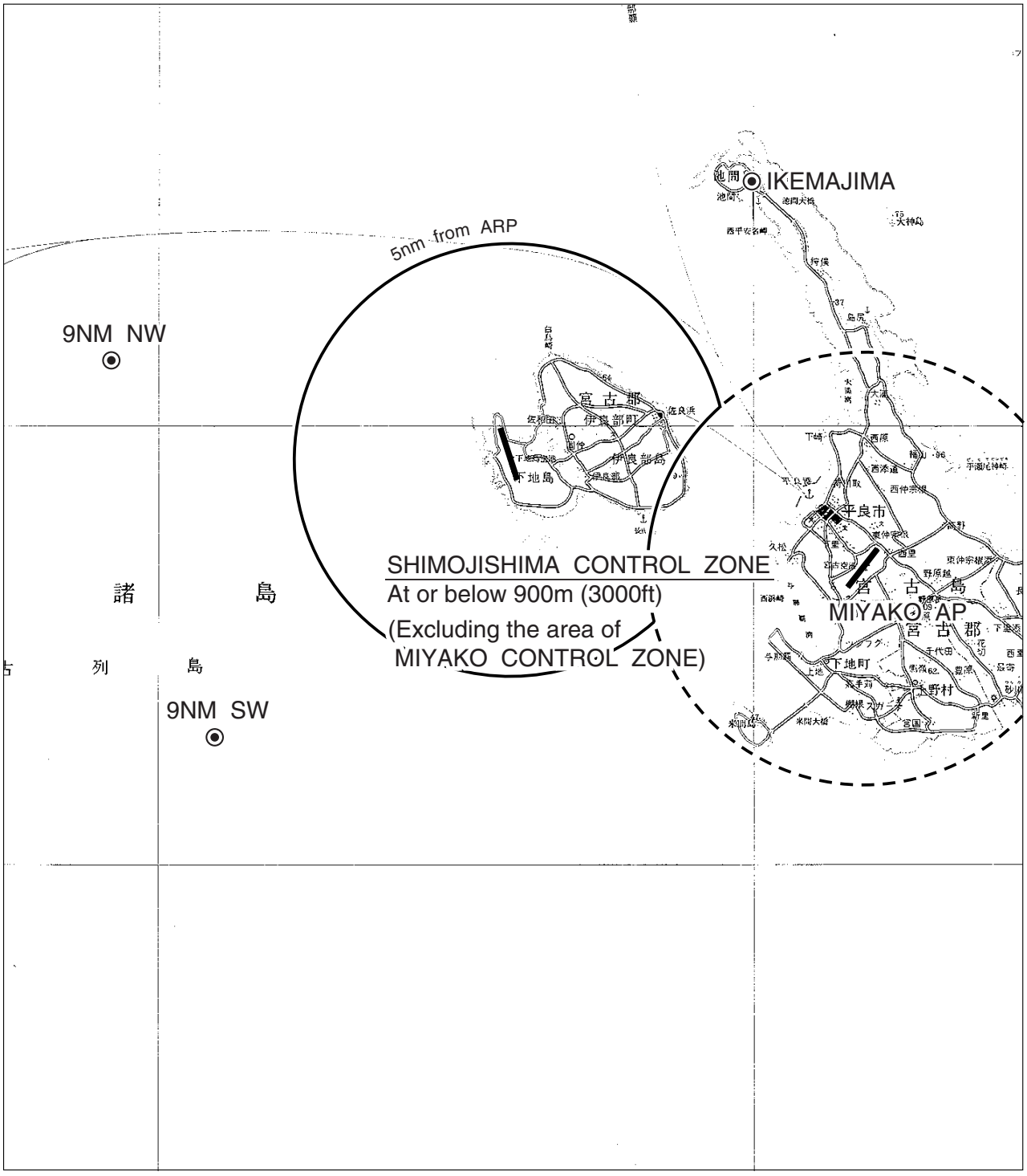
MINIMA THR elev.54 AD elev.25

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA (H)	VIS
A	350(296)	800	350(325)	900	510(485)	1600
B				1000		
C						2400
D		1200		1400	580(555)	3200

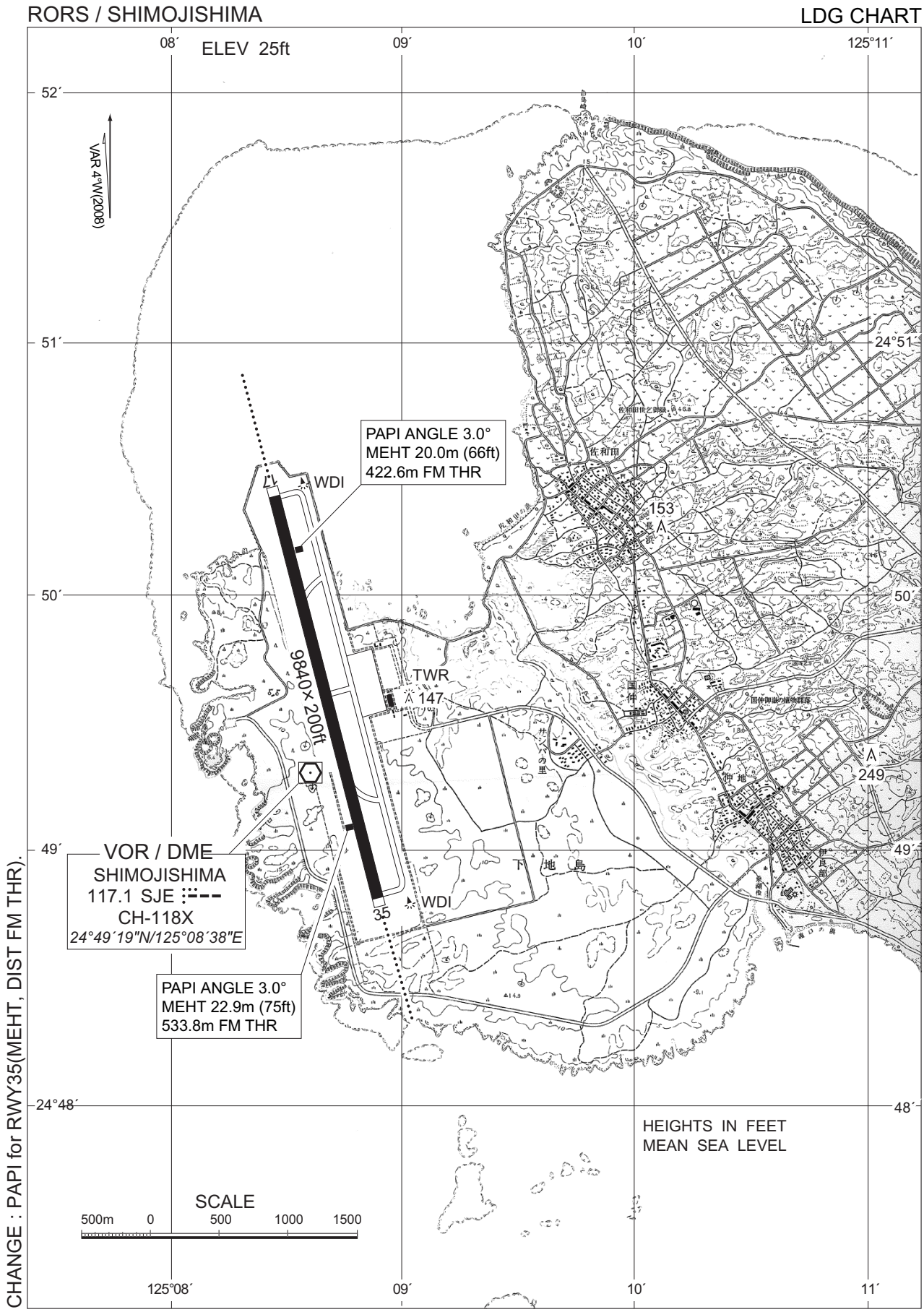
Circling to WEST side of RWY only.

CHANGE : VAR. PROC course(FM DIANA to CHIMI) added. TAIKO, NUUSI established. HLDG pattern(DIANA) established.

RORS SHIMOJISHIMA Visual REP



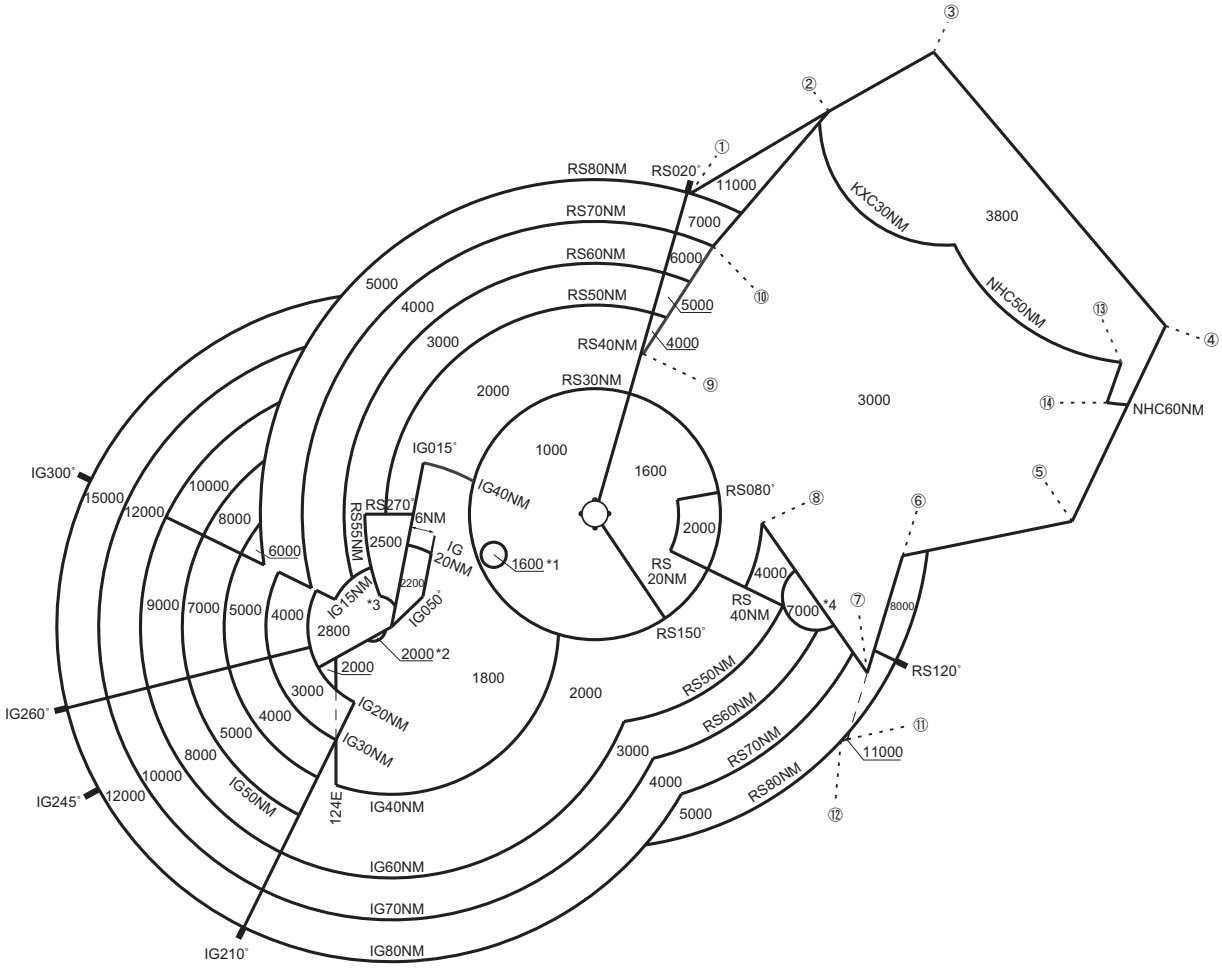
Call sign	BRG / DIST from ARP	Remarks
池間島 Ikemajima	045˚/ 9NM	島 Island
9NM NW	290˚/ 9NM	海上 Over the sea
9NM SW	230˚/ 9NM	海上 Over the sea


RORS / SHIMOJISHIMA
LDG CHART
ELEV 25ft
08′
09′
10′
125°11′
52′
51′
50′
49′
24°48′
24°51′
48′
11′
125°08′
VAR 4°W(2008)
PAPI ANGLE 3.0°
MEHT 20.0m (66ft)
422.6m FM THR
WDI
9840× 200ft
TWR
147
153
249
佐和田
国仲
下地島
VOR / DME
SHIMOJISHIMA
117.1 SJE
CH-118X
24°49′19″N/125°08′38″E
WDI
35
PAPI ANGLE 3.0°
MEHT 22.9m (75ft)
533.8m FM THR
HEIGHTS IN FEET
MEAN SEA LEVEL
SCALE
500m 0 500 1000 1500
CHANGE : PAPI for RWY35(MEHT, DIST FM THR).

RORS / SHIMOJISHIMA

Minimum Vectoring Altitude CHART

VAR 4˚W (2013)



①260606N/1253511E
②262504N/1261226E
③263831N/1264046E
④253118N/1273951E
⑤244518N/1271337E
⑥243809N/1262857E
⑦241018N/1261859E
⑧244643N/1255220E
⑨252751N/1252151E
⑩255321N/1254054E
⑪235438N/1261324E
⑫235414N/1261156E
⑬252316N/1272802E
⑭251400N/1272404E

CENTER : *244938N/1250827E* (RORS RADAR SITE)
CENTER : *242310N/1241441E* (ROIG RADAR SITE)

*1 : *244015N/1244143E* RADIUS : 3NM
*2 : *242248N/1240952E* RADIUS : 3NM
*3 : *242538N/1241100E* RADIUS : 5NM
*4 : *242850N/1260600E* RADIUS : 8NM

CHANGE : Update(BTN RS020° and RS150°).