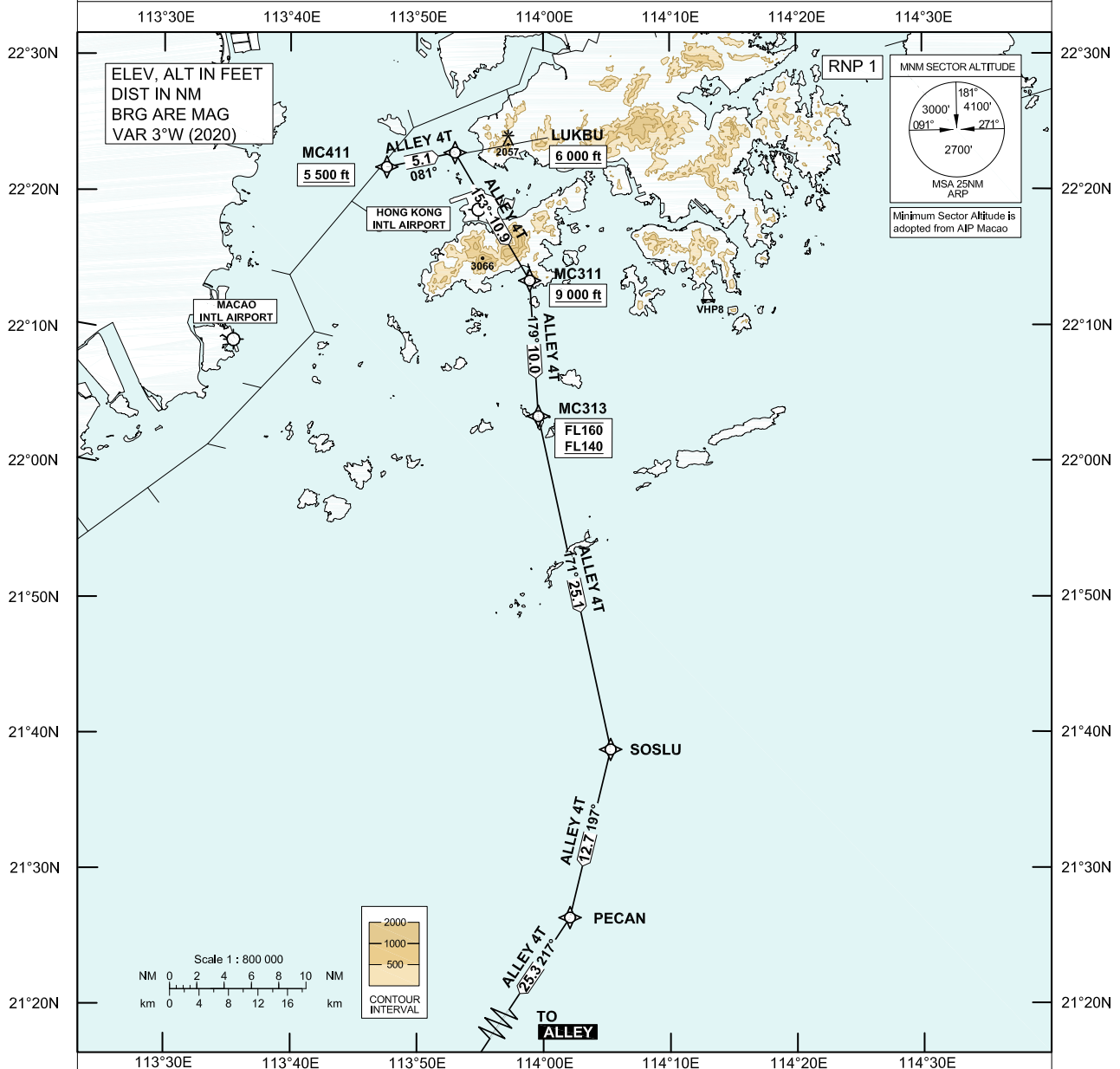**STANDARD DEPARTURE CHART-
INSTRUMENT (SID) - ICAO**

Transition Altitude 9 000 ft
HONG KONG DEPARTURE 122.0

**MACAO / Intl (VMMC)
RWY 34
RNAV (GNSS) ALLEY 4T SID**

1. Aircraft shall comply with the Macao RWY 34 SID procedure as published in the AIP Macao.
2. For RNAV (GNSS) SID, aircraft must be approved by State of Registry in accordance with ICAO RNP 1 standard or equivalent. Carriage of certified GNSS receiver is mandatory.
3. Aircraft that do not have approval or whose RNP 1 capability has been degraded shall use the Conventional Procedure described below.

ALLEY 4T SID RWY 34

RNP 1 Procedure
(Mandate procedure available to aircraft appropriately equipped and approved)
MC411 - LUKBU - MC311 - MC313 - SOSLU - PECAN - ALLEY

Conventional Procedure
Departures shall enter Hong Kong airspace via MC411.

From MC411 direct to LUKBU, then to MC311, MC313, SOSLU, PECAN and ALLEY.

CLIMB REQUIREMENT
Cross MC411 at or above 5 500 ft climbing to 6 000 ft. Cross LUKBU at 6 000 ft or above.
Expect further climb when instructed by ATC.

SPEED RESTRICTION
Aircraft shall fly at 250 KIAS or less below FL 110.

CHANGE: Revised procedure; revised frequency.

AD 2-VMMC-SID-ALLEY-T_V07_240531km

FMC Database Coding Reference for Macao RNAV(GNSS) SID

TABULAR DESCRIPTION: ALLEY 4T Runway 34

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (KIAS)	Navigation Specification
Aircraft shall comply with the Macao RWY34 SID procedure as published in the AIP Macao										
01	TF	MC411	-	-	+3.0	-	-	+5500	-250	RNP 1
02	TF	LUKBU	-	081 (078)	+3.0	5.1	-	+6000	-	RNP 1
03	TF	MC311	-	153 (150)	+3.0	10.9	-	+9000	-	RNP 1
04	TF	MC313	-	179 (176)	+3.0	10.0	-	-FL160 +FL140	-	RNP 1
05	TF	SOSLU	-	171 (168)	+3.0	25.1	-	-	-	RNP 1
06	TF	PECAN	-	197 (194)	+3.0	12.7	-	-	-	RNP 1
07	TF	ALLEY	-	217 (214)	+3.0	25.3	-	-	-	RNP 1

WAYPOINT LIST

ALLEY 4T RWY 34	
Waypoint Identifier	**Coordinates (WGS-84)**
MC411	22 21 41.20N 113 47 37.58E
LUKBU	22 22 44.12N 113 53 01.50E
MC311	22 13 18.51N 113 58 56.18E
MC313	22 03 18.39N 113 59 36.70E
SOSLU	21 38 44.03N 114 05 18.39E
PECAN	21 26 20.19N 114 02 05.64E
ALLEY	21 05 11.15N 113 47 09.50E