

AD 2. AERODROME

VNSI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VNSI – SIMARA/Domestic

VNSI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | |
|----|---|--|
| 1. | ARP Coordinates and site at AD | 27 09 36 N 084 58 47 E * |
| 2. | Direction and Distance from (city) | 20 Km, North of Birgunj City |
| 3. | Elevation/Reference Temperature | 137 m. (449ft.)/37° C (June) |
| 4. | MAG VAR/Annual Change | 0 ° E |
| 5. | AD Administration, address Telephone, Telefax, Telex AFS | Civil Aviation Authority of Nepal Simara Civil Aviation Office, Simara, Bara Te1- 977-053-521952 Fax - 977-053-520210 AFS - VNSIYDYX |
| 6. | Types of traffic permitted (IFR/VFR) | IFR / VFR |
| 7. | Remarks | |

VNSI AD 2.3 OPERATIONAL HOURS

| | | |
|-----|----------------------------|--|
| 1. | AD Administration | SUN-THU 10:00 -17:00 LT (SUMMER), 10:00-1600 LT (WINTER), FRI 10:00-1500 LT |
| 2. | Customs and immigration | NIL |
| 3. | Health and sanitation | NIL |
| 4. | AIS Briefing Office | NIL |
| 5. | ATS Reporting Office (ARO) | NIL |
| 6. | MET Briefing | Half Hourly METAR provided during ATS Operation Hours |
| 7. | ATS | 1) From 16 Feb - 15 Nov (0015 - 1815) UTC 2) From 16 Nov - 15 Feb (0045 - 1815) UTC |
| 8. | Fuelling | NIL |
| 9. | Handling (Cargo) | NIL |
| 10. | Security | H-24 |
| 11. | Remarks | Any change will be notified by NOTAM |

* WGS -84 Coordinates

VNSI AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|----|---|--|
| 1. | Cargo-handling facilities | Available with local airlines operator |
| 2. | Fuel/Oil Types | NIL |
| 3. | Fuelling facilities/capacity | NIL |
| 4. | De-icing facilities | NIL |
| 5. | Hangar space for visiting aircraft | NIL |
| 6. | Repair facilities for visiting aircraft | NIL |
| 7. | Remarks | - |

VNSI AD 2.5 PASSENGER FACILITIES

| | | |
|----|----------------------|---|
| 1. | Hotels | in the city |
| 2. | Restaurants | in the city |
| 3. | Transportation | Taxi Service, Bus from AD |
| 4. | Medical Facilities | First Aid at AD, Hospitals in the city. |
| 5. | Bank and Post Office | In the city |
| 6. | Tourist Office | In the city. |
| 7. | Remarks | - |

VNSI AD 2.6 RESCUE AND FIRE FIGHTING SERVICE

| | | |
|----|---|--|
| 1. | AD Category for firefighting | Category V |
| 2. | Rescue equipment | Available |
| 3. | Capability for removal of disabled aircraft | NIL |
| 4. | Remarks | Complementary Extinguishing Agents and Fire Extinguishers (wheel type fire extinguishers also) Available. 1 Fire Vehicle and 1 Ambulance Available. |

VNSI AD 2.7 SEASONAL AVAILABILITY

Aerodrome available throughout the year.

VNSI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA

| | | |
|----|--|---|
| 1. | Apron surface and strength | Surface - Asphalt Concrete, Strength - 12/F/C/Y/T |
| 2. | Taxiway width, surface and strength | Width - 18m Surface – Asphalt Concrete, Strength - 10/F/C/Y/T |
| 3. | Altimeter check point location and elevation | Location: - At Apron Elevation:- 134m/440 ft. |
| 4. | VOR/INS checkpoints | VOR:-Taxi position. |
| 5. | Remarks | - |

VNSI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

| | | |
|----|---|--|
| 1. | Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands | Taxing guidance signs at intersections with TWY and RWY and at holding positions. Guide lines at apron. |
| 2. | RWY and TWY markings and LGT | RWY: 01/19, THR, TDZ, Center line, RWY edge marked and RWY End, THR, RWY edge have lights. TWY: Center line, edge with blue lights. |
| 3. | Stop bars | |
| 4. | Remarks | NIL |

VNSI AD 2.10 AERODROME OBSTACLES

| In Area 2 | | | | | | |
|-------------------------|----------------|----------------|----------------|---------------------------|--------------------------|-------------------------------|
| OBST ID/ Designation | OBST Type | Latitude | Longitude | Elevation / height (m) | Markings/ Type, Color | Remarks |
| SI101 | ATC Tower | 27°9'48.722"N | 84°58'46.471"E | 148.657/15.634 | | Control Tower Top |
| SI102 | NDB | 27°9'57.415"N | 84°58'57.523"E | 159.452/22.790 | | NDB Mast-1 |
| SI103 | NDB | 27°9'57.819"N | 84°59'0.085"E | 159.180/22.262 | | NDB Mast-2 |
| SI104 | NDB | 27°9'55.549"N | 84°58'59.478"E | 158.129/22.188 | | NDB Mast-3 |
| SI105 | VORDME | 27°09'50.290"N | 84°58'56.023"E | 146.086/13.178 | | VORDME Antenna |
| SI106 | Tree | 27°9'57.653"N | 84°58'58.875"E | 160.161/23.446 | | Green Tree |
| SI107 | Tree | 27°9'57.377"N | 84°59'0.230"E | 159.337/17.697 | | Tree |
| SI108 | Tree | 27°10'0.499"N | 84°58'53.479"E | 152.899/14.091 | | Mango Tree's Bunch |
| SI109 | Water Tank | 27°10'12.575"N | 84°58'50.001"E | 165.962/30.225 | | Simara Water Tank Yellow |
| SI110 | Tree | 27°10'16.959"N | 84°58'51.056"E | 173.521/20.975 | | Tree |
| SI111 | Masala Tree | 27°10'12.569"N | 84°58'55.405"E | 169.742/32.343 | | Tree |
| SI112 | Trees | 27°10'2.605"N | 84°59'2.195"E | 168.906/29.771 | | 4 Bunch of Tree |
| SI113 | Hulas Roof Top | 27°10'31.834"N | 84°58'43.068"E | 171.344/16.362 | | Hulas Steel (Blue House) |
| SI114 | Chimney | 27°10'17.842"N | 84°58'34.222"E | 170.058/30.846 | | Jagadamba Steel (Red Chimney) |
| SI115 | Tower | 27°10'2.977"N | 84°58'36.412"E | 181.623/46.060 | | NTC Telecom Tower |
| SI116 | Chimney | 27°10'1.816"N | 84°58'24.351"E | 167.576/33.889 | | Hama Steel (Black Chimney) |
| SI117 | Mast | 27°9'59.950"N | 84°58'16.628"E | 174.528/41.902 | | Tower (4 Pillar) |
| SI118 | Antenna | 27°9'54.307"N | 84°58'29.379"E | 176.095/46.240 | | Antenna Top |
| SI119 | Water Tank | 27°9'49.264"N | 84°58'35.147"E | 162.328/29.118 | | Simara Inn Hotel Top |
| SI120 | Tower | 27°9'49.253"N | 84°58'33.091"E | 166.789/33.379 | | Near Lama Hotel |
| SI121 | Tower | 27°9'50.846"N | 84°58'20.877"E | 165.979/34.979 | | Tower (West of Highway) |
| SI122 | Building Top | 27°9'43.510"N | 84°58'38.094"E | 150.977/19.206 | | Brighter Academy |
| SI123 | Chimney | 27°8'34.255"N | 84°57'57.086"E | 150.443/32.904 | | Ashok Steel |

| | | | | | | |
|-------|--------------------------|---------------|----------------|----------------|--|---------------------------------|
| SI124 | Chimney | 27°8'30.795"N | 84°58'2.748"E | 147.000/29.541 | | Ashok Steel |
| SI125 | Fire Station Top | 27°9'40.394"N | 84°58'45.596"E | 147.582/15.086 | | Airport Fire Station |
| SI126 | Bamboo | 27°9'32.675"N | 84°58'42.928"E | 151.539/29.269 | | Bamboo Tree Behind Fire Station |
| SI127 | Trees | 27°9'12.869"N | 84°58'44.202"E | 136.911/11.079 | | Trees South East of RWY 01 |
| SI128 | Trees | 27°8'50.799"N | 84°58'36.941"E | 139.716/19.001 | | Trees Far South from RAW 01 End |
| SI129 | Tree | 27°9'19.971"N | 84°58'52.925"E | 153.073/31.523 | | Trees East of RWY 01 End |
| SI130 | Tree | 27°9'40.629"N | 84°58'54.367"E | 152.787/20.267 | | Peepal Tree |
| SI131 | Tree | 27°9'42.645"N | 84°59'5.553"E | 158.440/26.150 | | Twin Trees East of RWY Center |
| SI132 | Tree | 27°9'59.798"N | 84°59'11.787"E | 170.856/33.817 | | Tree Behind Playground |
| SI133 | Tree | 27°10'4.287"N | 84°59'8.491"E | 176.336/37.437 | | Tree - North Side of Playground |
| SI134 | House Top | 27°9'58.433"N | 84°58'54.817"E | 145.789/7.114 | | Pink House |
| SI135 | House Top | 27°10'0.355"N | 84°58'54.618"E | 147.769/9.087 | | House With Yellow Tank |
| SI136 | House Top | 27°9'59.029"N | 84°58'56.232"E | 148.365/14.285 | | White House |
| SI137 | House | 27°10'1.467"N | 84°58'57.112"E | 145.053/10.530 | | Pink and Brown House |
| SI138 | House | 27°9'53.037"N | 84°58'57.119"E | 142.382/6.725 | | Office Quarter |
| SI139 | House | 27°9'57.729"N | 84°58'52.166"E | 142.296/5.236 | | Tile Roof House |
| SI140 | Factory Top With Chimney | 27°9'0.060"N | 84°58'47.350"E | 144.035/20.256 | | Classic Industries Pvt. Ltd |
| SI141 | Chimney | 27°8'25.870"N | 84°57'52.740"E | 147.139/29.643 | | Himadri Food Product Pvt. Ltd |
| SI142 | Chimney | 27°8'59.672"N | 84°58'25.483"E | 151.293/29.876 | | Nandan Banaspati Ghee |
| SI143 | Hotel Top | 27°9'5.765"N | 84°58'25.966"E | 138.671/17.254 | | Ichhya Hotel Top |
| SI144 | House Top | 27°9'59.067"N | 84°58'48.298"E | 143.470/6.706 | | White House |

VNSI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|-----|---|--------------------------------------|
| 1. | Associated MET Office | MET office, Simara AIRPORT |
| 2. | Hours of service MET office outside hours | As ATS |
| 3. | Office responsible for TAF preparation periods of validity | NIL |
| 4. | Type of landing forecast interval of issuance | NIL |
| 5. | Briefing/Consultation provided | METAR |
| 6. | Flight documentation language used | Charts or Tabular forms Text English |
| 7. | Charts and other information available for briefing or consultation | NIL |
| 8. | Supplementary equipment available for providing information | Self- briefing terminal |
| 9. | ATS units provided with information | Simara TWR |
| 10. | Additional information limitation of service, etc.) | Tel : (MET Office) 977-053-520081 |

* WGS -84 Coordinates

VNSI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designation RWY NR | TRUE & MAG BRG | Dimensions of RWY (M) | Strength(PCN) and surface of RWY and SWY | THR Coordinates | THR elevation |
|-----------------------|--------------------------|--------------------------|--|----------------------------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 01 | 013° | 1192x 30 | 11/F/C/Y/T Asphalt Concrete | 270916.80539N* 0845843.54421E | 127.243m AMSL |
| 19 | 193° | 1192x30 | 11/F/C/Y/T Asphalt Concrete | 270954.71540N* 0845852.63538E | 136.734m AMSL |
| Slope of RWY-SWY | SWY Dimensions (M) | CWY Dimensions (M) | Strip Dimensions (M) | OFZ | Remarks |
| 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | |

VNSI AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 01 | 1192 | 1192 | 1192 | 1192 | |
| 19 | 1192 | 1192 | 1192 | 1192 | |

VNSI AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY Designator | APCH LGT Type LEN INTST | THR LGT COLOR WBAR | VASIS PAPI | TDZ LGT LEN | RWY Center Line LGT Length, spacing Color, INTST | RWY edge LGT LEN, spacing Color INTST | RWY End LGT Color | SWY LGT LEN (M) Color | Remarks |
|-------------------|----------------------------------|--------------------------|----------------|-------------------|--|--|----------------------------|--------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 19 | NIL | Green | PAPI 3.00° | NIL | NIL | 1192m, 60m White LIM | Red | NIL | PAPI RWY 19 is restricted and unusable beyond 1 NM from the Runway Threshold |
| 01 | NIL | Green | APAPI 3.00° | NIL | NIL | 1192m, 60m White LIM | Red | NIL | |

VNSI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|----|--|---|
| 1. | ABN Location, characteristics and hours of operation | ABN:At Tower Building/IBN: NIL |
| 2. | LDI Location and LGT Anemometer Location and LGT | NIL |
| 3. | TWY edge and Centre line lighting | Edge: All TWY Centre Line : NIL |
| 4. | Secondary power supply / switch over time | Secondary power supply to all lighting at AD/Automatic with UPS Backup' |
| 5. | Remarks | NIL |

* WGS 84 Coordinates

VNSI AD 2.16 HELICOPTER LANDING AREA

| |
|---------------|
| Not specified |
|---------------|

VNSI AD 2.17 ATS AIRSPACE

| | | |
|-------------------------------------|---|-------------------------|
| 1. Designation and lateral limits | <u>Simara CTR</u> : An area bounded by VNSM boundary to the south and an arc of a circle 20 NM in radius centered at 'SMR' VOR (270951N, 0845856E*) <u>Simara ATZ</u> : An area of a circle of radius 5 NM centered at 'ARP' (270936 N, 0845847 E) | |
| 2. Vertical Limits | CTR | ATZ |
| | <u>7500' AMSL</u> GND | <u>2000' AGL</u> GND |
| 3. Airspace classification | C | |
| 4. ATS units call sign/languages(s) | Simara TWR/English | |
| 5. Transition Altitude | 13500' AMSL | |
| 6. Remarks | - | |

VNSI AD 2.18 ATS COMMUNICATION FACILITIES

| Service Designation | Call Sign | Frequency | Hours of Operation | Remarks |
|---------------------|--------------|-----------|--------------------|---------|
| 12 | 2 | 3 | 4 | 5 |
| TWR | Simara Tower | 118.3 MHZ | . As ATS | . |

VNSI AD 2.19 RADIO NAVIGATION AND LANDING AID

| Type of Aid | Identification | Frequency | OPR Hours | Coordinates | Remarks |
|-------------|----------------|-----------------------|-----------|------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| DVOR/DME | SMR | 112.9 MHZ CHN 76 X | H24 | 270951 N* 0845856 E | |

* WGS -84 Coordinates

VNSI AD 2.20 LOCAL TRAFFIC REGULATIONS

To be Developed

VNSI AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VNSI AD 2.22 FLIGHT PROCEDURES

To be developed

VNSI AD 2.23 ADDITIONAL INFORMATION

1. Bird Activity

| Bird Scaring Device not available.

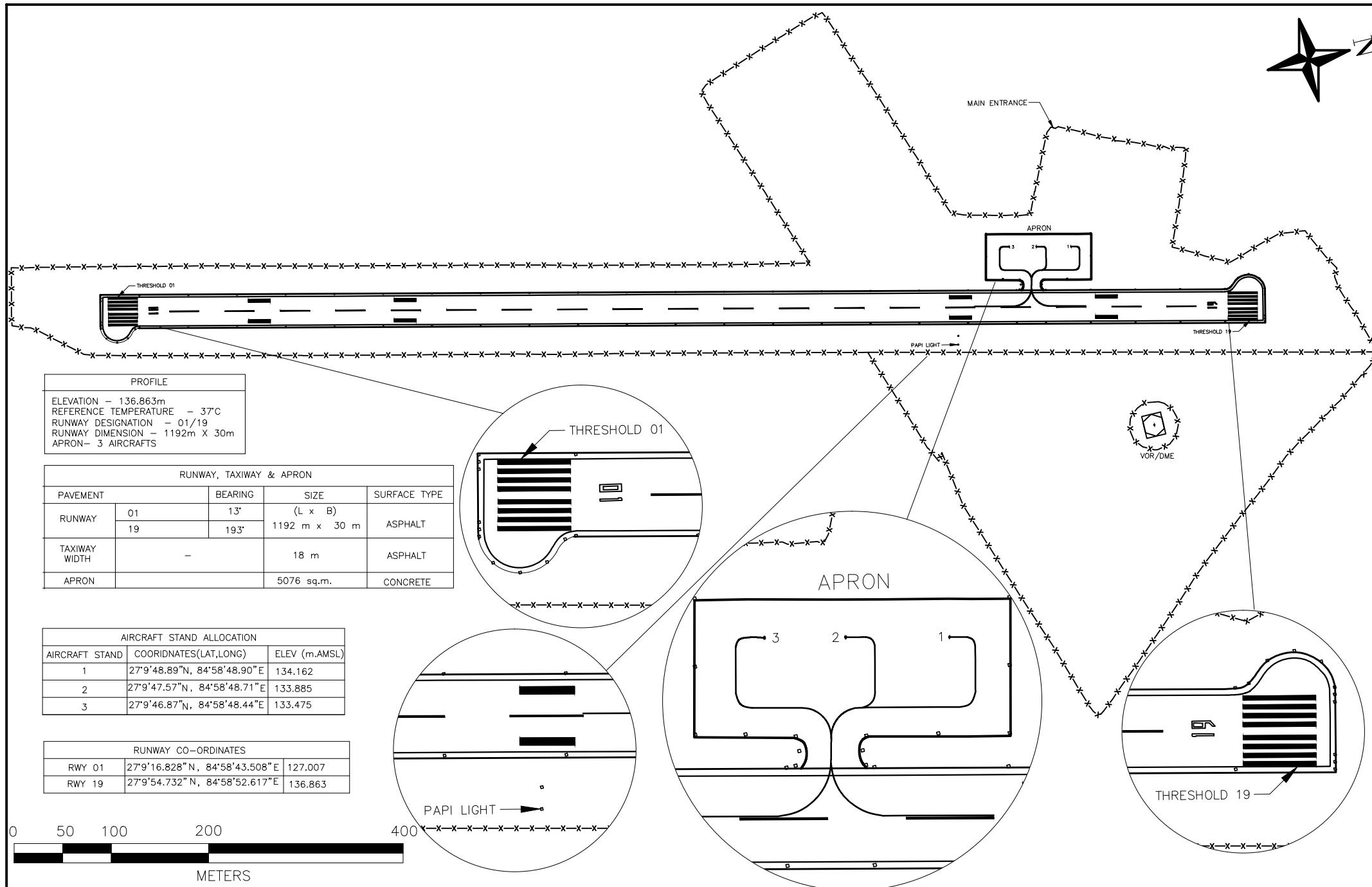
VNSI AD 2.24 CHARTS & PROCEDURES RELATED TO SIMARA AIRPORT

| | |
|---|--------------|
| Aerodrome Chart | VNSI AD 2-11 |
| IFR Holding Points | VNSI AD 2-12 |
| Standard Departure Chart – RWY 19 | VNSI AD 2-13 |
| Instrument Approach Chart - ICAO | VNSI AD 2-14 |
| Standard Arrival Chart Instrument (STAR) - ICAO | VNSI AD 2-15 |
| DUMSI 1A Arrival, THULO 2A Arrival | |
| Instrument Approach Chart – ICAO | VNSI AD 2-16 |

AERODROME CHART

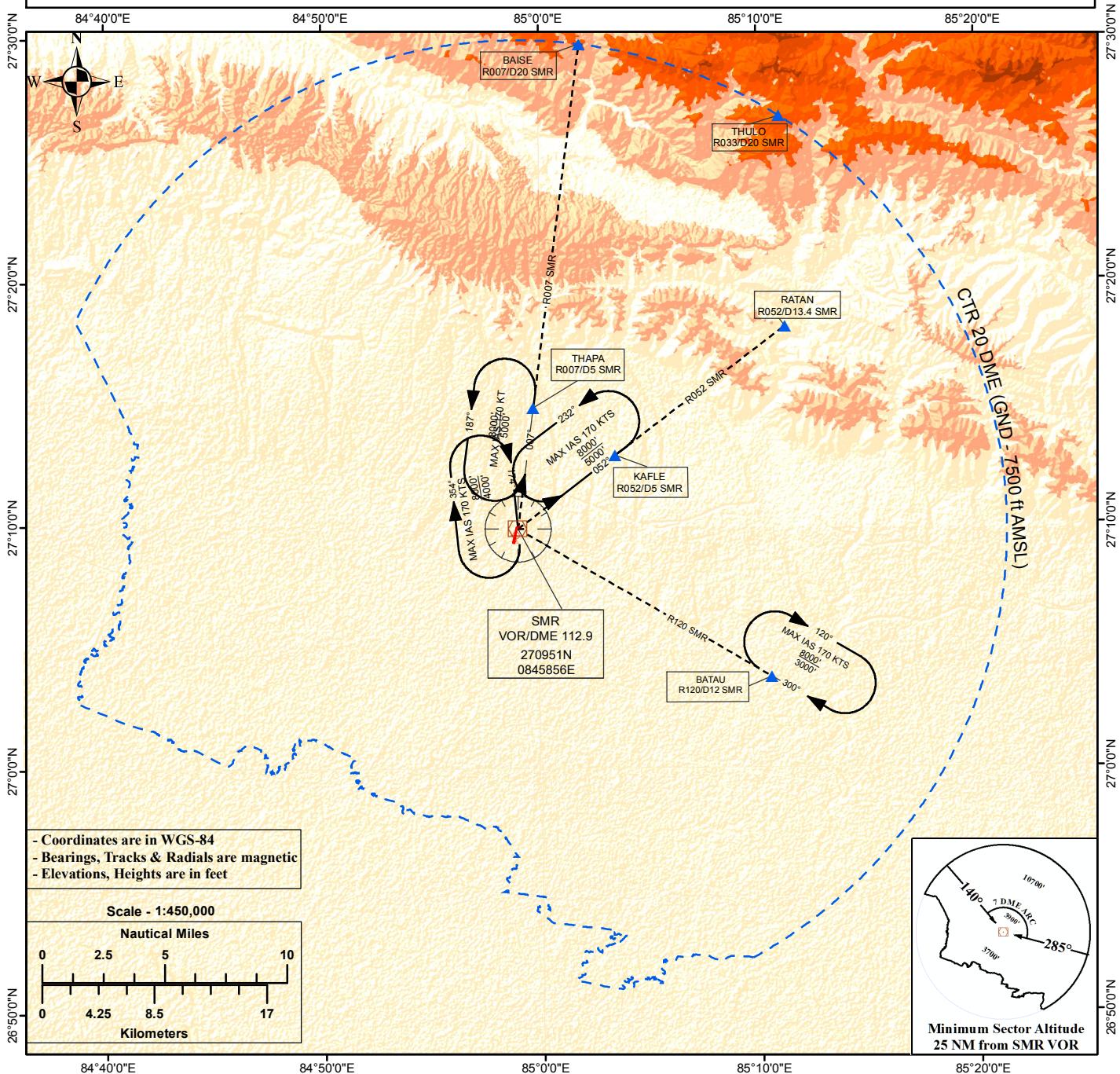
TWR 118.3 MHZ

SIMARA AIRPORT



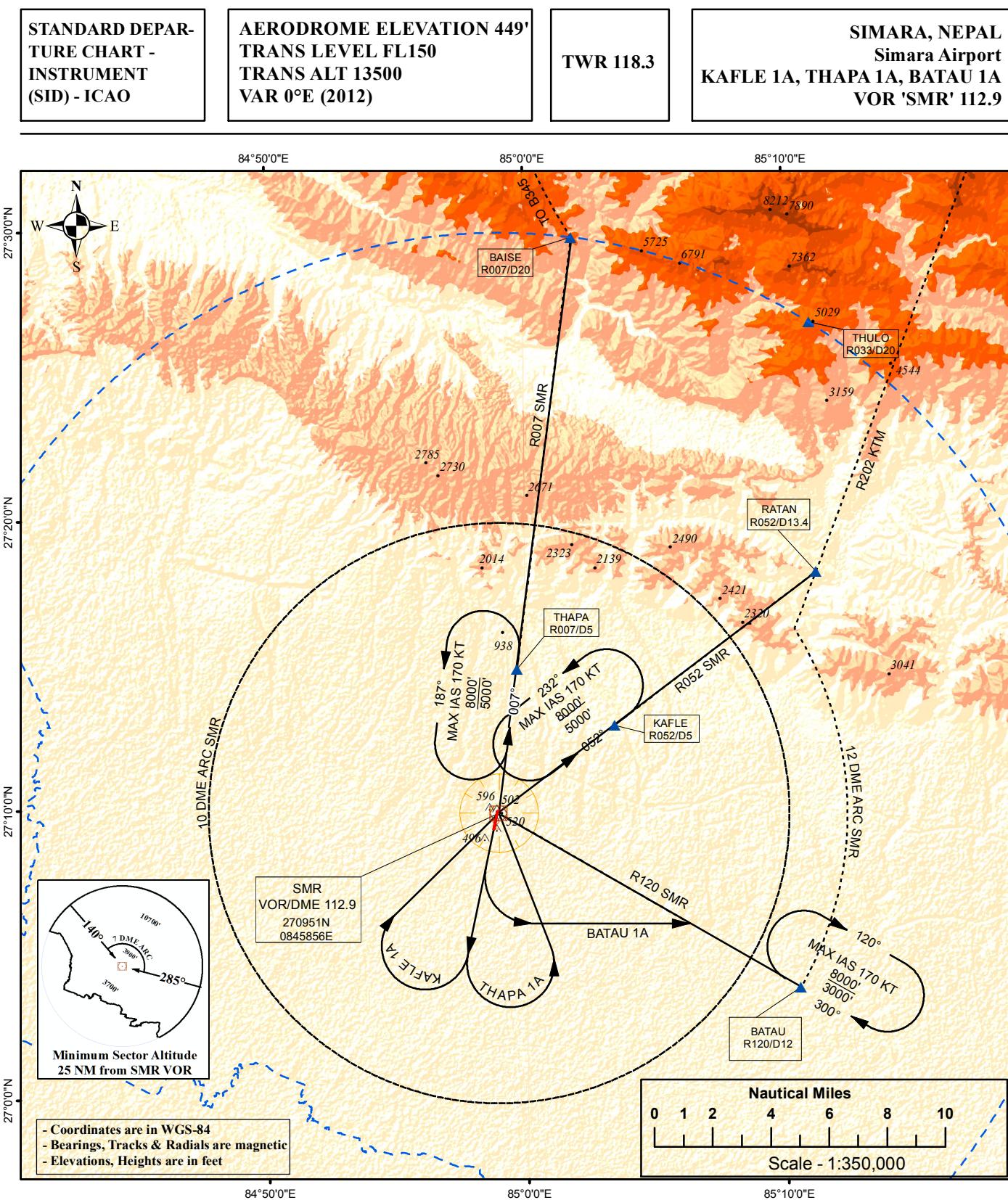
| | | |
|--|------------------|--|
| AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012) | TWR 118.3 | SIMARA, NEPAL Simara Airport VOR 'SMR' 112.9 |
|--|------------------|--|

IFR Holding Points



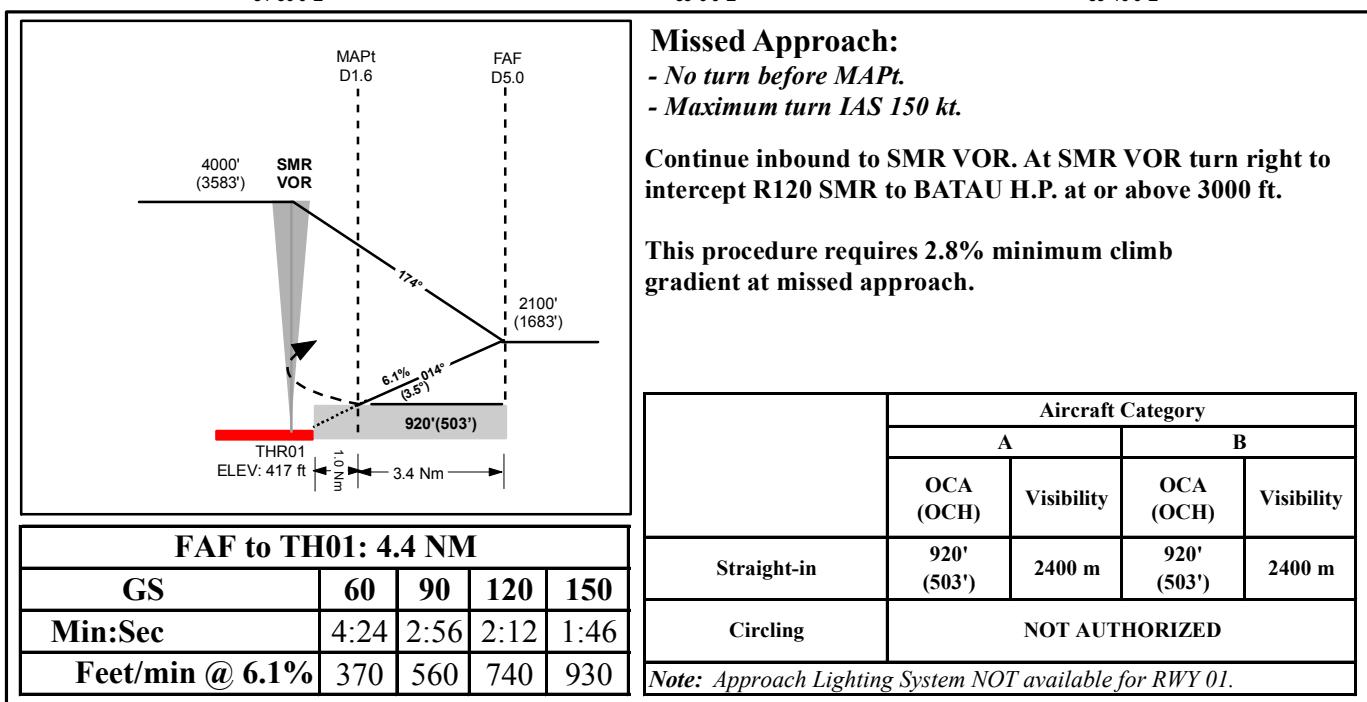
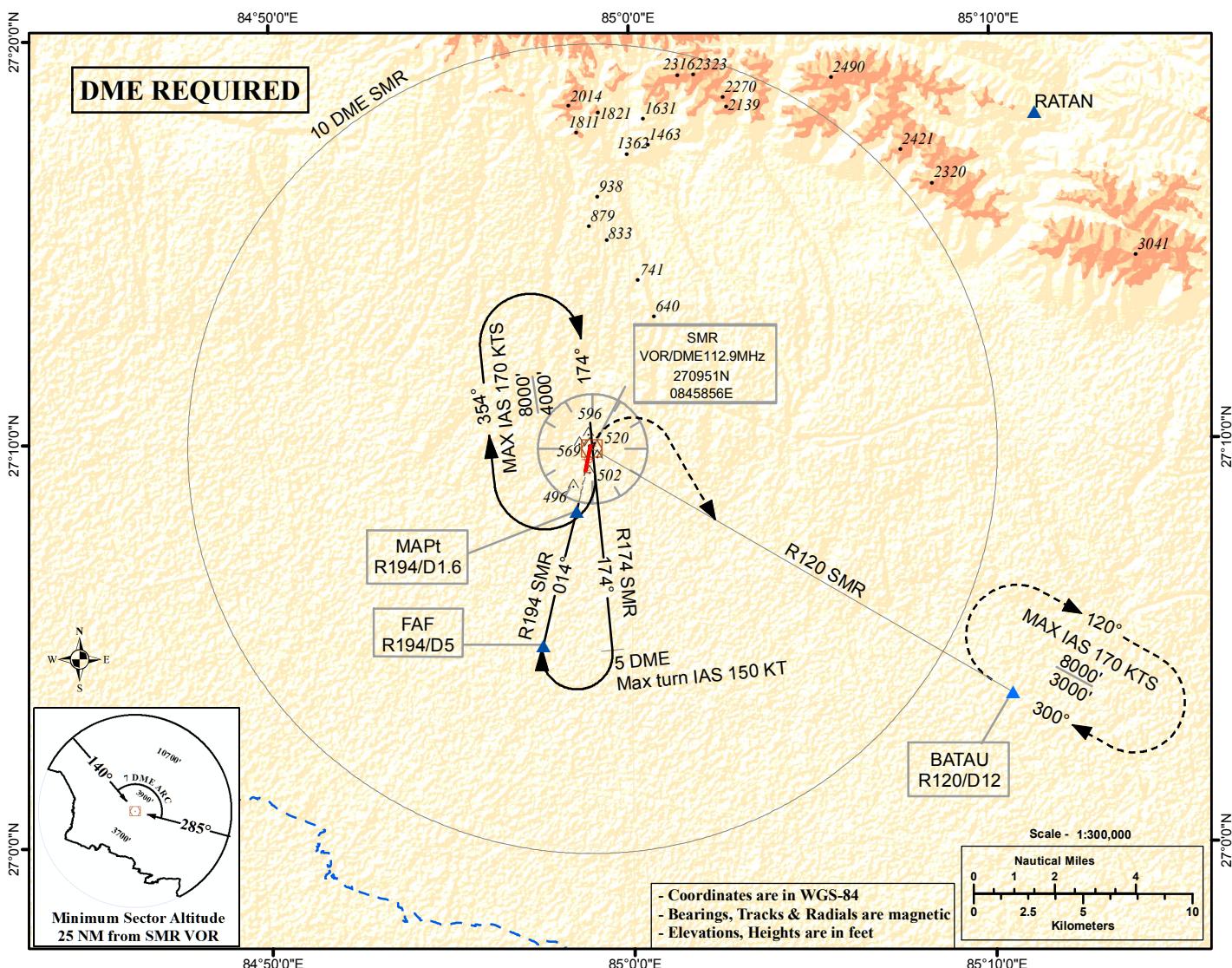
| Holding | Location | Max. Altitude Min. Altitude | Max. IAS | Pattern | Inbound Track | Outbound Leg |
|---------|----------------------|--------------------------------|----------|---------|---------------|--------------|
| SMR VOR | Over SMR VOR/DME | 8000 ft AMSL 4000 ft AMSL | 170 KTS | Right | 174° | 1 Minute |
| KAFLE | R052/D5 SMR VOR/DME | 8000 ft AMSL 5000 ft AMSL | 170 KTS | Left | 052° | 1 Minute |
| THAPA | R007/D5 SMR VOR/DME | 8000 ft AMSL 5000 ft AMSL | 170 KTS | Left | 007° | 1 Minute |
| BATAU | R120/D12 SMR VOR/DME | 8000 ft AMSL 3000 ft AMSL | 170 KTS | Right | 300° | 1 Minute |

Note: BATAU holding is laterally separated with THAPA, KAFLE and SMR VOR holding.

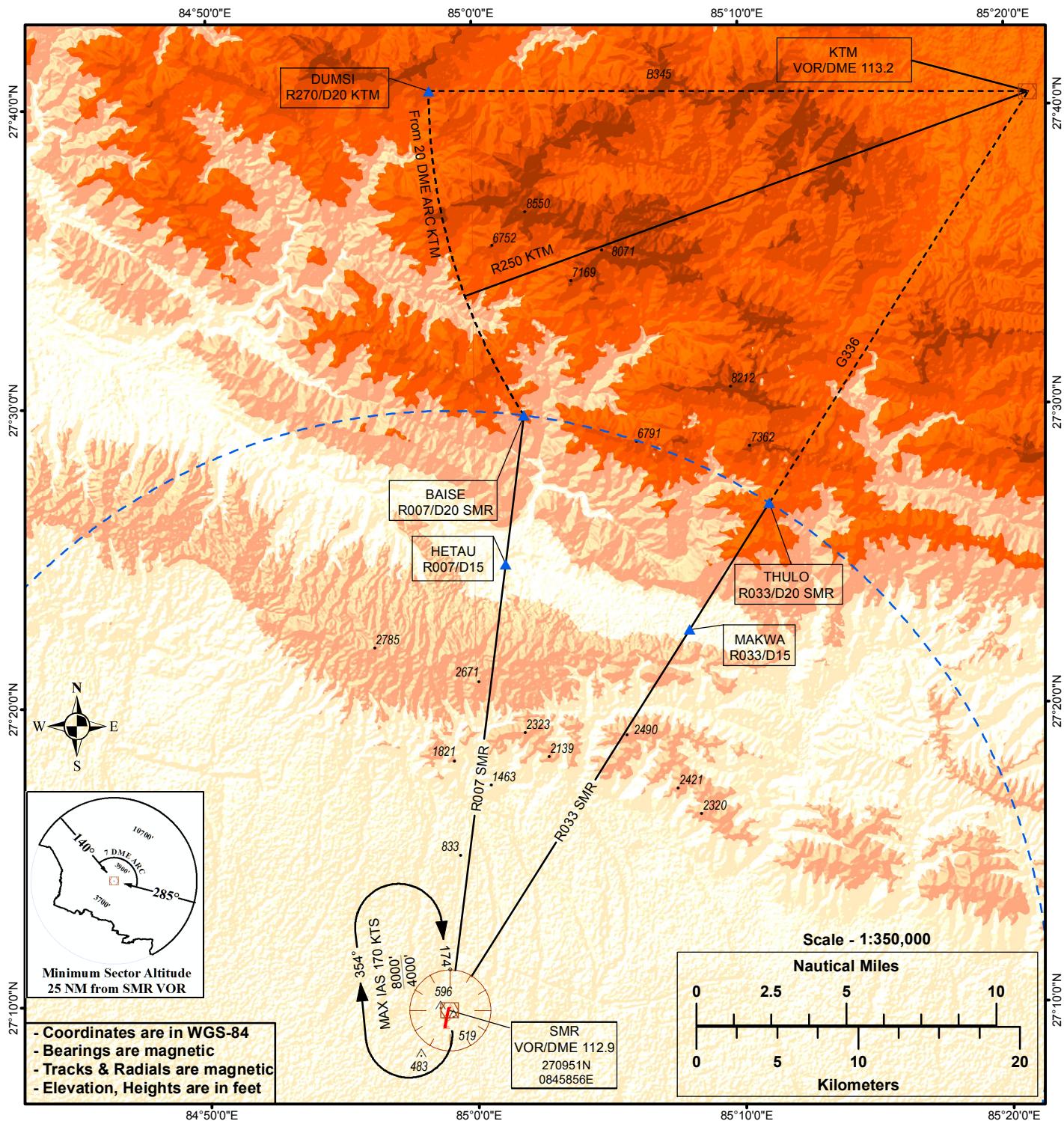


| SID | RWY | ROUTING | TRANSITION |
|------------------------|-----|--|--|
| KAFLE 1A PDG (5.4%) | 19 | Departure turn limited to 180 KT IAS. Climb straight ahead. At 5 DME, turn RIGHT to SMR VOR at or above 5000 ft. Then follow SMR outbound R052 to KAFLE H.P. | Reach 8000 ft over KAFLE and follow outbound R052 SMR to RATAN at or above 11500 ft. |
| THAPA 1A PDG (5.1%) | 19 | Departure turn limited to 180 KT IAS. Climb straight ahead. At 5 DME, turn LEFT to SMR VOR at or above 5000 ft. Then follow SMR outbound R007 to THAPA H.P. | Reach 6000 ft over THAPA and follow outbound R007 SMR to BAISE at or above 10500 ft. Then join B345 via 20 DME arc KTM. |
| BATAU 1A PDG (4.9%) | 19 | Departure turn limited to 150 KT IAS. Climb straight ahead. At 1000 ft, turn LEFT and intercept outbound R120 SMR VOR to BATAU H.P. at or above 3000 ft. | Reach 8000 ft over BATAU and follow 12 DME arc SMR VOR/DME and intercept R202 KTM by RATAN at or above 11500 ft. |

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|----------------------------------|--|-----------|--|
| INSTRUMENT APPROACH CHART - ICAO | AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012) | TWR 118.3 | SIMARA, NEPAL Simara Airport VOR y RWY 01 VOR 'SMR' 112.9 |
|----------------------------------|--|-----------|--|



| | | | |
|--|--|------------------|---|
| STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO | AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012) | TWR 118.3 | SIMARA, NEPAL Simara Airport DUMSI 1A Arrival THULO 2A Arrival VOR 'SMR' 112.9 |
|--|--|------------------|---|



| | | | |
|----------------------------------|--|-----------|--|
| INSTRUMENT APPROACH CHART - ICAO | AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012) | TWR 118.3 | SIMARA, NEPAL Simara Airport VOR z RWY 01 VOR 'SMR' 112.9 |
|----------------------------------|--|-----------|--|

