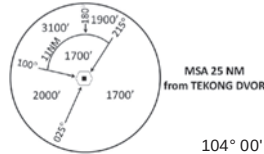


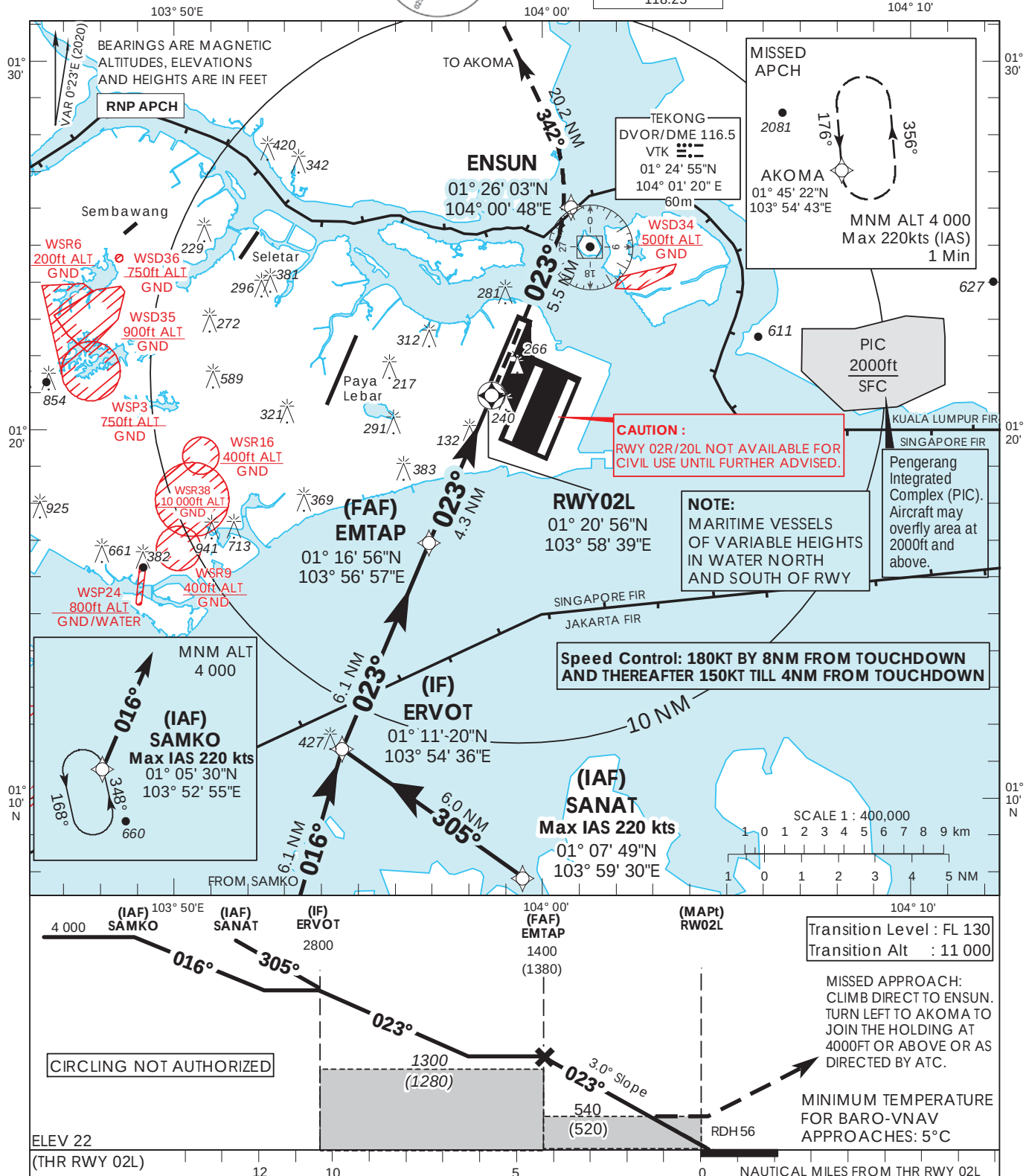
## INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 22ft  
HEIGHT RELATED TO  
THR RWY 02L - ELEV 22ft



| D-ATIS | AP ID | WSSS    |
|--------|-------|---------|
|        |       | 128.025 |
| APP    |       | 124.05  |
|        |       | 119.3   |
| TWR    |       | 118.6   |
|        |       | 118.25  |

SINGAPORE/  
SINGAPORE CHANGI  
**RNP RWY 02L**



|                      |             |             |             |             |           |           |             |
|----------------------|-------------|-------------|-------------|-------------|-----------|-----------|-------------|
| Category of Aircraft |             | OCA (OCH)   |             |             |           |           |             |
|                      |             | A           | B           | C           | D         |           |             |
| LNAV/VNAV            | 2.5%        | 450 (430)   |             |             |           |           |             |
| LNAV                 | 2.5%        | 540 (520)   |             |             |           |           |             |
| Fix                  | SAMKO       | SANAT       | ERVOT       | EMTAP       | RW02L     | ENSUN     | AKOMA       |
| Altitude (Height)    | 4000 (3978) | 4000 (3978) | 2800 (2778) | 1400 (1378) | 540 (518) | 880 (858) | 4000 (3978) |
| Speed                | knots       | 80          | 100         | 120         | 140       | 160       | 180         |
| FAF - MAPt 4.3nm     | min : s     | 3 : 14      | 2 : 35      | 2 : 09      | 1 : 51    | 1 : 37    | 1 : 26      |
| Rate of descent/GS   | ft/min      | 424         | 530         | 637         | 743       | 849       | 955         |

SINGAPORE CHANGI RNP-APCH RWY 02L – Approach from SAMKO

| Path Terminator | Waypoint | Fly-Over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA/ TCH(FT) | Navigation Specification |
|-----------------|----------|----------|----------------|--------------------|---------------|----------------|---------------|------------------|--------------|--------------------------|
| IF              | SAMKO    | -        | -              | -0.4               | -             | -              | A040+         | 220              | -            | RNP APCH                 |
| TF              | ERVOT    | -        | 016 (016.4)    | -0.4               | 6.1           | R              | A028+         | -                | -            | RNP APCH                 |
| TF              | EMTAP    | -        | 023 (023.4)    | -0.4               | 6.1           | -              | A014+         | -                | -            | RNP APCH                 |
| TF              | RW02L    | Y        | 023 (023.4)    | -0.4               | 4.3           | -              | -             | -                | -3.0° / 50   | RNP APCH                 |
| DF              | ENSUN    | -        | -              | -0.4               | -             | L              | -             | -                | -            | RNP APCH                 |
| TF              | AKOMA    | -        | 342 (342.4)    | -0.4               | 20.2          | -              | A040+         | -                | -            | RNP APCH                 |

SINGAPORE CHANGI RNP-APCH RWY 02L – Approach from SANAT

| Path Terminator | Waypoint | Fly-Over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA/ TCH(FT) | Navigation Specification |
|-----------------|----------|----------|----------------|--------------------|---------------|----------------|---------------|------------------|--------------|--------------------------|
| IF              | SANAT    | -        | -              | -0.4               | -             | -              | A040+         | 220              | -            | RNP APCH                 |
| TF              | ERVOT    | -        | 305 (305.4)    | -0.4               | 6.0           | R              | A028+         | -                | -            | RNP APCH                 |
| TF              | EMTAP    | -        | 023 (023.4)    | -0.4               | 6.1           | -              | A014+         | -                | -            | RNP APCH                 |
| TF              | RW02L    | Y        | 023 (023.4)    | -0.4               | 4.3           | -              | -             | -                | -3.0° / 50   | RNP APCH                 |
| DF              | ENSUN    | -        | -              | -0.4               | -             | L              | -             | -                | -            | RNP APCH                 |
| TF              | AKOMA    | -        | 342 (342.4)    | -0.4               | 20.2          | -              | A040+         | -                | -            | RNP APCH                 |

Waypoint Coordinates

| Name        | Latitude      | Longitude      |
|-------------|---------------|----------------|
| SAMKO (IAF) | 01° 05' 30" N | 103° 52' 55" E |
| SANAT (IAF) | 01° 07' 49" N | 103° 59' 30" E |
| ERVOT (IF)  | 01° 11' 20" N | 103° 54' 36" E |
| EMTAP (FAF) | 01° 16' 56" N | 103° 56' 57" E |
| RW02L       | 01° 20' 56" N | 103° 58' 39" E |
| ENSUN       | 01° 26' 03" N | 104° 00' 48" E |
| AKOMA       | 01° 45' 22" N | 103° 54' 43" E |