

# STANDARD ARRIVAL CHART

## RNAV (GNSS) - INSTRUMENT (STAR)

ACC 134.2  
APP 124.05  
119.3  
TWR 118.6 / 118.25

TRANSITION ALTITUDE  
11 000ft

D-ATIS AP ID-WSSS  
128.025

**SINGAPORE/Singapore Changi**  
**RWY 02L/C/R**  
**KARTO ONE ALPHA ARRIVAL**  
**KARTO 1A**

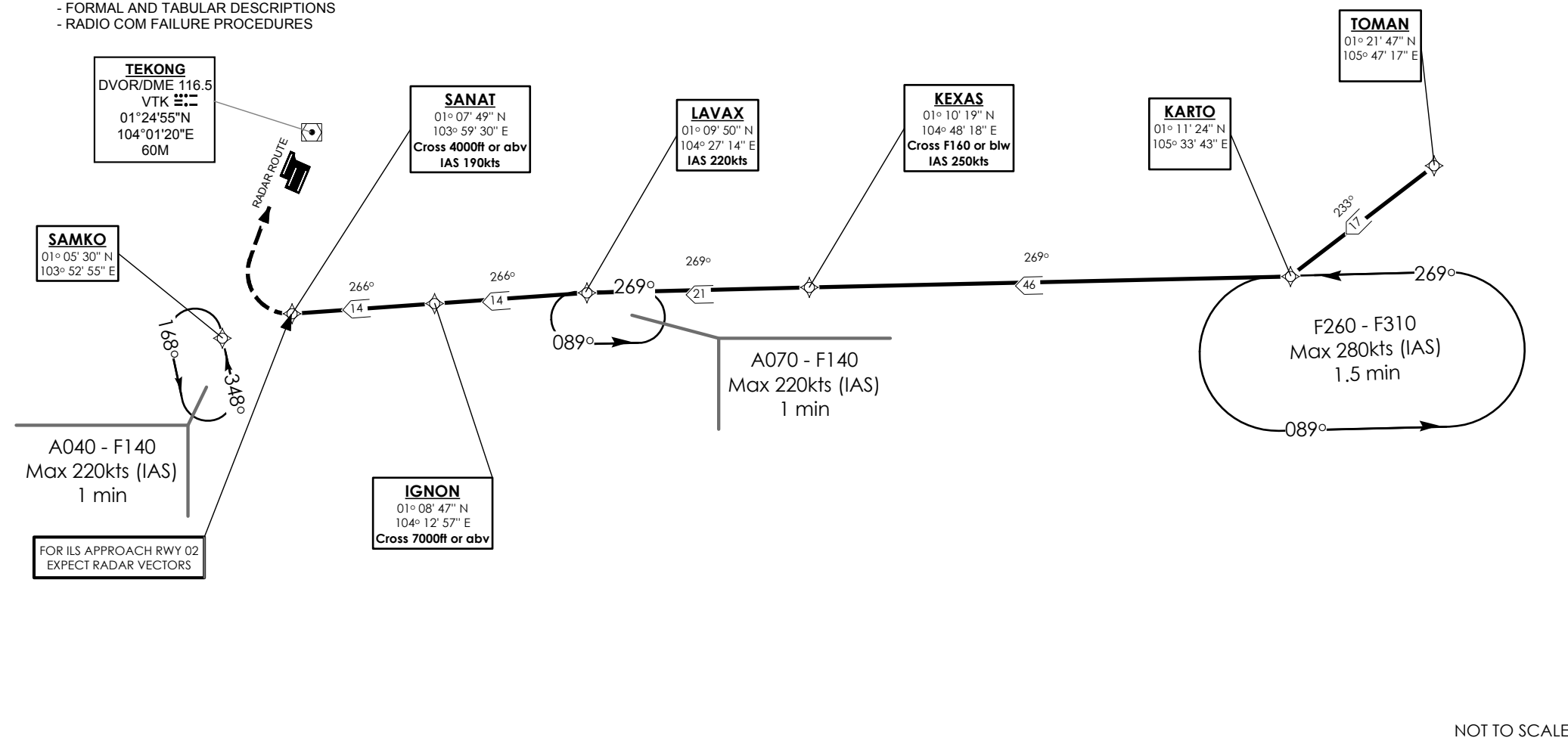
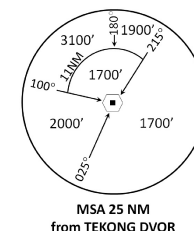
**ELEV, ALT IN FEET**  
BEARINGS, TRACKS AND  
RADIALS ARE MAGNETIC  
VAR 0°23'E (2020)

DISTANCES IN NM

**NOTE:** RADAR REQUIRED

**NOTE:** RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED

**NOTE:** REFER TO BACK PAGE FOR  
- FORMAL AND TABULAR DESCRIPTIONS  
- RADIO COM FAILURE PROCEDURES



## **KARTO 1A (STAR) RNAV GNSS RWY 02L/02C/02R - DESCRIPTIONS**

### **Formal & Abbreviated Descriptions**

| Formal Description                                                                                                                                                                     | Abbreviated Description | Path Terminator | Fly-Over required |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-------------------|
| From TOMAN. To KARTO, turn right. To KEXAS at or below FL160, speed 250kts. To LAVAX, speed 220kts, turn left. To IGNON at or above 7000ft. To SANAT at or above 4000ft, speed 190kts. | TOMAN -                 | IF              | N                 |
|                                                                                                                                                                                        | KARTO [R] -             | TF              | N                 |
|                                                                                                                                                                                        | KEXAS [FL160-; K250] -  | TF              | N                 |
|                                                                                                                                                                                        | LAVAX [K220; L] -       | TF              | N                 |
|                                                                                                                                                                                        | IGNON [A070+] -         | TF              | N                 |
|                                                                                                                                                                                        | SANAT [A040+; K190]     | TF              | N                 |

### **Tabular Descriptions**

| Path Term | Waypoint Name | Fly-Over | Course °M(°T) | Magnetic Variation | Turn Direction | Altitude | Speed Limit | Navigation Spec |
|-----------|---------------|----------|---------------|--------------------|----------------|----------|-------------|-----------------|
| IF        | TOMAN         | -        | -             | -                  | -              | -        | -           | RNAV1           |
| TF        | KARTO         | -        | 233(233.4)    | -0.4               | R              | -        | -           | RNAV1           |
| TF        | KEXAS         | -        | 269(269.4)    | -0.4               | -              | FL160-   | K250        | RNAV1           |
| TF        | LAVAX         | -        | 269(269.4)    | -0.4               | L              | -        | K220        | RNAV1           |
| TF        | IGNON         | -        | 266(266.4)    | -0.4               | -              | A070+    | -           | RNAV1           |
| TF        | SANAT         | -        | 266(266.4)    | -0.4               | -              | A040+    | K190        | RNAV1           |

## **RADIO COMMUNICATIONS FAILURE PROCEDURE**

|   |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>SET TRANSPONDER TO MODE A/C CODE 7600</b>                                                                                                                                                                                                                                                                                                                                                        |
| 2 | <b>When cleared via KARTO 1A by Singapore ATC</b> <p>(a) Maintain last assigned flight level or altitude and proceed on KARTO 1A to SANAT, then direct to SAMKO</p> <p>(b) From SAMKO commence descent and carry out appropriate landing procedure for RWY 02 as close as possible to EAT or ETA</p> <p>(c) If unable to effect a landing, refer to Singapore AIP for missed approach procedure</p> |
| 3 | <b>No clearance or instruction received from Singapore ATC</b> <p>- Refer to Singapore AIP for radio communications failure procedure</p>                                                                                                                                                                                                                                                           |