

GENERAL**Operational Hours****ATS Hours:** H24**AD ADMIN Hours:** MON-SAT 0330-1200, 2nd and 4th SAT and all SUN CLSD**Airport Information****RFF:** CAT 10**PCN:** RWY 09/27, RWY 14/32: 100/F/A/W/T**Operation****Code letter F ACFT OPS:** See last page.**Traffic Note**

Non-SKED international OPS 72HR PN. Non-SKED domestic OPS 12HR PN.

Low Visibility Procedure

Advanced Surface Movement Guidance and Control System (A-SMGCS) when LVP activated.

Transponder OPS**ARR**

- When on RWY keep TCAS selected.
- After RWY vacated: Select transponder or equivalent and auto if AVBL. TCAS shall be deselected.
- Parked on stand: Select stand-by.

Note: on GND squawk Mode C.

DEP

- At gate/stand: Select stand-by and enter SSR Code, ICAO designator and FLT number.
- When requesting push-back/taxi (whichever is earlier): Select transponder or equivalent and auto if AVBL.
- When lining up: Select TCAS only after receiving CLR to line up.

Minimum Runway Occupancy Time (MROT)

Ensure standard MROT procedures and in addition:

The preferred exit points for RWY 27 and RWY 09 are:

RWY	ACFT Type	TWY	Exit Speed
27	Code letter C-F ACFT	RET N8	Code C: 50KT, Code D-F: 30KT
27	Code letter B, ATR42/72,Q400,CRJ	RET N7	50KT
27	Code letter A-C ACFT	TWY S7	-
09	Code letter C-F ACFT	RET N5	50KT

RWY Restriction

RWY 09/27 CLSD for MAINT: TUE 0830-1030 and FRI 0846-1030.

RWY 14/32 CLSD for MAINT: WED 0545-0745.

RWY restored within 30min PN.

RWYs 09/27 and 14/32 CLSD 2150-2230 due to periodic MAINT. In case of emergency RWY restored within 10min.

INT of RWY 09/27 and 14/32 CLSD for MAINT: MON 0815-0830.

No turn pad AVBL for RWY 09, 27, 14 and 32.

GENERAL

Portion of RWY 14 between TWY K1 up to TWY N-N1 INT used as TWY.

RWY 09: Last exit TWY is N3.

Code E and F ACFT shall use second RWY holding PSN J1 for DEP RWY 09.

Cross RWY OPS daily 0001-0400 and 0930-1430 when VIS 3000m, CEIL 1500ft and tailwind component for RWY 14 not exceed 8KT:

- ARR use RWY 27
- DEP from APNs A, B, C, D use RWY 14
- DEP from APNs E, F, G, H, J and K use RWY 27.

TWY Restrictions

TWY Width	TWY Designator	Restrictions
25m / 82ft	E7	AVBL for crossing RWY 14/32 to TWY K1 and viceversa for ACFT up to Code letter C only.
	N1R	-
23m / 75ft	A1, A2	MAX wingspan 36m / 118ft
	K1, K3	
	L	
	R	
	S7	
18m / 59ft	B1	From H1 up to southern segment of Link 5 parallel to Y1. Parallel taxiing on TWY B1/Y1 code letter C, MAX taxi speed 10KT.
	B4	Between Link 6 up to behind stand V31R. Parallel taxiing on TWY B4/Y4 for ACFT code letter C, MAX taxi speed 10KT.
	C1, C3	-
	F	Up to code letter C ACFT (<36m / 118ft wingspan)
	Link 4	linking TWYs B1 and Y1
	Link 5	behind stand K4, linking TWYs B1/Y1
	Link 7	-
	Y1	From M4 up to southern segment of Link 5 parallel to B1. Parallel taxiing on TWY B1/Y1 for ACFT code letter C, MAX taxi speed 10KT.
	Y4	Between Link 6 up to behind stand V31R. Parallel taxiing on TWY B4/Y4 for ACFT code letter C, MAX taxi speed 10KT.

GENERAL**Taxi/Parking**

Preferred RWY Exit Points RWY 27:

- RET N8 for ACFT code letter C, D and E.
- RET N7 for ACFT code letter A, B and Q400.

In case preferred TWYs cannot be used:

- Inform ATC as early as possible.
- TWY N9 and N10 should be used.

Primary isolation bay (when RWY 09/27 in use): TWY E9

Secondary isolation bay (when RWY 14/32 in use): end of RWY 27 on south side on abandoned pavement stub abeam THR RWY 09 opposite TWY N10.

To the isolation bay follow-me mandatory. Park ACFT facing south only.

ACFT movement to/from APN L prohibited during cross RWY OPS between 0001-0400 and 0930-1430.

When RWY 27 in use, enter APN A via TWY L1 only and exit via TWY L4. TWY L3 to be used in EMERG only.

Use MNM PWR when entering RWY 14 from TWY E10.

APN C: Stands 25-31 taxi in from south to north only via TWY N and taxilane K3 and taxi out via taxilane K1 with right turn only.

All Stands, except V8L and V17L provided with A-VDGS.

APN U: Stands 83-88 start-up permitted after pushed-back abeam bay 84 only.

APN H:

- Code letter E ACFT from stands 55, 55A to pull abeam stand 53 prior to start-up.
- Code letter C ACFT from stands 55, 55A to pull abeam stand 55 prior to start-up.

DEP MNM taxi speed regulations:

- 15KT on straight portion of TWY
- 8-12KT during turning manoeuvres.
- ACFT taxiing too slowly will be taken out of the sequence.

Warnings

Scalloping of BBB VOR signals exist. (NW-sector up to $\pm 6^\circ$, SE-sector up to $\pm 3^\circ$).

Light ACFT and helicopter activity at Juhu AD.

Birds in vicinity of AD.

ARRIVAL**Communication**

Contact GND after vacating RWY.

COM Failure: See separate header COM Failure Arrival below.

Arrival Procedure

Reverse: Minimize the use of reverse thrust after LDG.

**Non-standard GP intercept position on
RWY 09**

GP intercepts RWY 09 at 314m / 1030ft after landing threshold.

Remaining LDG DIST beyond GP is 2734m / 8970ft.

RWY 27

GP intercepts RWY 27 at 308m / 1011ft after landing threshold.

Remaining LDG DIST beyond GP is 2657m / 8717ft.

Warnings

During LDG pilots are requested to report gustiness, TURB and wind shear, stating heightband affected and any other relevant details.

DEPARTURE**Take-off Minima**

RWY		09/27, 14		
All ACFT	ft - m/km	0 - 400R/400V	HJ only	For conditions check CRAR India
		0 - 800R/800V	HN	
RWY		32		
All ACFT	ft - m/km	c500 - 400v	HJ only	For conditions check CRAR India
		c500 - 800v	HN	

Speed

MAX IAS 250KT below 10000ft.

Communication

After TKOF, contact APP 127.900 after reaching 800ft.

COM Failure: See separate header COM Failure Departure below.

DEPARTURE**Departure Procedure****Start-up/Push-back**

REQ start-up within 5min before EOBT. When REQ start-up give souls O/B and state that security check performed.

Call GND 5min prior to push-back and report:

- Call sign
- DEST
- Proposed FL and alternate FL
- Parking PSN
- Ready to push-back in 5min

TWR will advise the pilot whether the proposed FL or an alternate FL is AVBL.

No start-up permitted at stands. In case of requiring, single ENG idle PWR start-up permitted with ATC approval only.

After push-back ENG must be started within 5min, ATC CLR will be cancelled automatically after expiry of the 5min.

Intersection DEP may be assigned, if unable to comply inform ATC at start-up/push-back.

Lining up for DEP RWY 27 via TWY N1:

- Follow strictly the TWY CL marking and LGTs.
- No lock turn permitted.

In case combined line-up and take-off clearance is granted, line-up and initiate take-off immediately thereafter.

If TKOF CLR received, do not delay TKOF, otherwise CLR will be cancelled.

Do not REQ direct routings on APP FREQ below FL140.

Noise Abatement Procedures

RWY 09: Climb straight ahead to 1000ft, commence turn before reaching outer locator.

RWY 27: Climb straight ahead to 1700ft, commence turn after crossing coast 3.5NM BBB.

RWY 32: Climb straight ahead to 1700ft, commence turn at or above 1700ft.

Minimum Runway Occupancy Time (MROT)

Ensure standard MROT procedures.

ATC Slot, Clearance**Airport Collaborative Decision Making (CDM)**

CDM concept in use at this airport. See General Part/RAR/RAR In-Flight and in addition; TSAT is generated at TOBT -30min.

Contact DLV to request en-route clearance and SID between TSAT -15min to TSAT -5min.

ACFT must be ready to start-up/push-back at TOBT and request SMC (GND) for start-up/push-back at TSAT -5min and TSAT +5min.

Taxi CLR must be requested within 5min of start-up/push-back approval.

COM Failure Arrival**COM Failure**

Under radar vectoring:

- If RCF occurs prior to interception of final APCH track; maintain last assigned ALT or 3700ft whichever is higher and proceed to VOR via shortest route to join the HLDG PROC.
- If RCF occurs after interception of final APCH track; continue APCH and land if visual or carry out the MISAP and join the BBB VOR HLDG at 3700ft. After joining the HLDG PROC carry out the instrument APCH for which radar vectoring was provided.

RNAV Arrivals

Leave the relevant STAR HLDG after the HLDG release time, if given, or on completion of one HLDG pattern and maintain/descend to last assigned LVL and proceed to BBB VOR. 5 minutes after leaving the HLDG, descend to FL100 and start the published instrument APCH from BBB VOR to the RWY in use.

Non-RNAV Arrivals

Leave the relevant STAR HLDG and proceed to BBB VOR maintain/descend to last assigned LVL. Descend within the published BBB VOR HLDG to FL90 and start the published instrument APCH to the RWY in use.

Any phase except final approach

2min after setting 7600, proceed direct to BBB VOR and join BBB VOR hold for the assigned RWY.

Within D100 BBB, may commence descend to 3700ft and join BBB VOR hold for assigned RWY. Cross D25 BBB at or above FL70 and follow the laid down procedure for assigned RWY.

If landing clearance not received

Carry out MISAP and proceed for next APCH from BBB VOR for the same RWY.

Outside Mumbai TMA

In case of arrival, if COM failure happens outside of Mumbai TMA, the PIC shall commence COM failure maneuver (mentioned in COM failure for Any phase except final approach) after 2min of setting 7600 or entering Mumbai TMA, whichever is later.

Maintain last assigned clearance for MNM 2min after setting 7600 in all cases to alert the controller.

COM Failure Departure**COM Failure**

Maintain FL70 or last assigned LVL, whichever is higher, and heading if given, until 20NM. Thereafter follow D25 BBB arc to join ATS route and climb to FPL LVL when established on route.

When under radar vectors

Inside D15 BBB VOR

Maintain last assigned HDG until D20 BBB VOR, then climb to FL55 or last assigned LVL, whichever is higher. After D20 BBB VOR climb to FL70 or last assigned LVL, whichever is higher and proceed directly to intercept the FPL route. 5 minutes after recognition of COM-Failure start climb to FPL LVL.

At or beyond D15 BBB VOR

Maintain last assigned HDG for 2 minutes, climbing to FL70 or last assigned LVL whichever is higher. Then proceed directly to intercept the FPL route. 5 minutes after recognition of COM-Failure start climb to FPL LVL.

Immediately after TKOF (Proceed to Destination)

Climb to and maintain FL70 on SID or as per heading/track last issued and acknowledged. 2min after setting 7600 climb to FL90. Maintain FL90 for 2min, then climb to filed flight planned level. Continue to follow the SID and flight planned route to destination.

COM failure after establishing contact with radar

Initially climb to cleared flight level or FL90 whichever is higher. Maintain cleared heading or SID until 2min after setting 7600. Proceed to the next point of flight planned route. 2min after setting 7600 also climb to filed flight planned level and continue to destination..

Immediately after TKOF (Return to AD)

Climb to and maintain FL70 on SID or as per heading/track last issued and acknowledged. 2min after setting 7600 climb to FL100. Maintain FL100 for 2min, then make shorter arc to come over BBB VOR and join BBB VOR hold. Descend to FL55 in hold and leave BBB VOR, then follow the laid down procedure for assigned RWY.

COM failure after establishing contact with radar

If below FL100, continue on current clearance until 2min after setting 7600 then climb to FL100. After reaching FL100 make a shorter arc to join BBB VOR hold.

If above FL100, continue on current clearance until 2min after setting 7600. Stop climb and make a shorter arc to join BBB VOR hold descending to FL100. Descend to FL55 in hold and leave BBB VOR, then follow the the laid down procedure for assigned RWY.

Code Letter F ACFT OPS**RWY Restriction**

RWY 09/27 AVBL for TKOF and LDG.

RWY 14/32 not AVBL for code letter F ACFT.

Taxi**Arrival**

When RWY 27 is in use, ACFT should preferably exit using TWY N8.

When RWY 09 is in use, ACFT should exit using TWY N5 or N3.

Departure

When RWY 27 is in use, ACFT should preferably use TWY N1.

When RWY 09 is in use, ACFT should preferably use TWY N.

Parking

Stands V17, V18, V20 and V21 and R2 AVBL for code letter F ACFT.

B747-8F may be parked on stand S3.

Advanced Visual Docking Guidance System (A-VDGS) AVBL at stands V17, V18, V20 and V21.

Standard Taxi Routes (A380 and any other code Letter F ACFT)**Arrival RWY 27**

Vacate RWY via TWY N8/N9/N10/N11 or N, cross RWY 14 - TWY N1 - TWY M6 - TWY M - TWY M5 - Taxilane H - parking stands.

Arrival RWY 09

Vacate RWY via TWY N5/N3, TWY N1 - TWY M6 - TWY M - TWY M5 - taxilane H - parking stands.

Departure RWY 27

Push-back facing SW on taxilane H for V17 and push-back facing NW for V18/V20/V21/R2, then taxi via taxilane H - TWY M7 - TWY N1 - HLDG point RWY 27.

Departure RWY 09

Push-back facing SW on taxilane H for V17 and push-back facing NW for V18/V20/V21/R2, then taxi via taxilane H - TWY M7 - TWY N1 - cross RWY 14 - TWY N - HLDG point J1 RWY 09.

Standard Taxi Routes (B747-8F)**Arrival RWY 27**

Vacate RWY via TWY N8/N9/N10/N11 or N, then taxi via N - TWY W4 - cross RWY 14 - TWY E5 - taxilane P - taxilane H - stand S3.

Arrival RWY 09

Vacate RWY via TWY N5/N3, then taxi via TWY N1 - RWY 32 - TWY E5 - taxilane P - taxilane H - stand S3.

Departure RWY 27

Push-back facing NW on taxilane H or SW on taxilane P, then taxi via TWY E5 - RWY 14 - TWY N1 - HLDG point RWY 27.

Departure RWY 09

Push-back facing NW on taxilane H or SW on taxilane P, then taxi via taxilane P - TWY E5, cross RWY 14 - TWY W4 - TWY N - HLDG point J1 RWY 09.

Code Letter F ACFT OPS**Standard Taxi Routes Isolated Parking Position (IPP)**

Applicable for A380 and any other code letter F ACFT:

Arrival RWY 09

Vacate RWY via TWY N5/N3 and then turn left on TWY N1, right turn on RWY 32, TWY E9 (IPP).

Arrival RWY 27

Vacate RWY via TWY N8/N9/N10/N11 or N, then taxi via TWY N, left turn on RWY 32, TWY E9 (IPP)

Applicable for B747-8F:

Arrival RWY 27

Vacate via TWY N8/N9/N10/N11 or N, then taxi via TWY N, left turn on RWY 32, TWY E9 (IPP).

Arrival RWY 09

Vacate RWY via TWY N5/N3, then taxi via TWY N1, right turn on RWY 32, TWY E9 (IPP).

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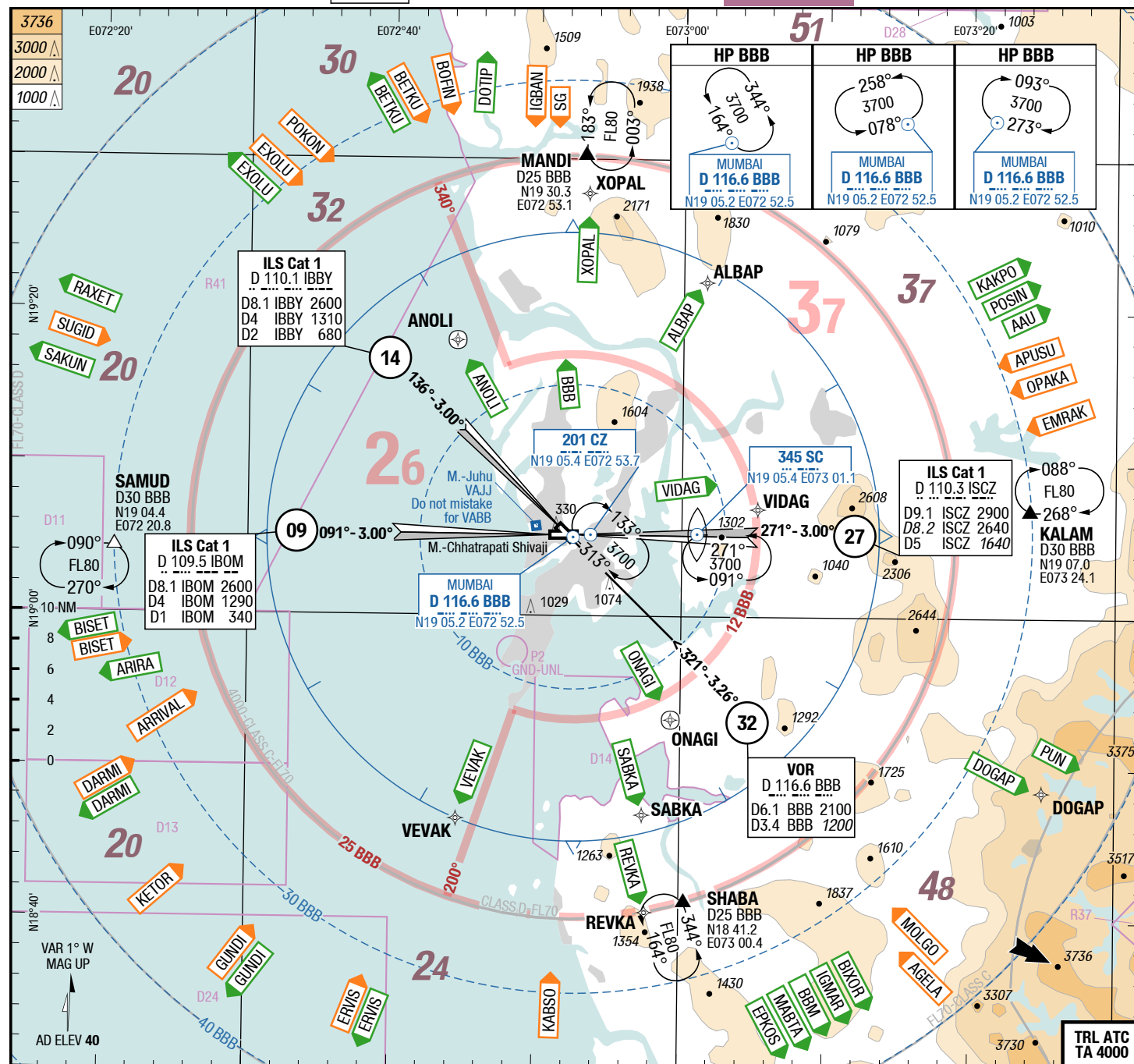
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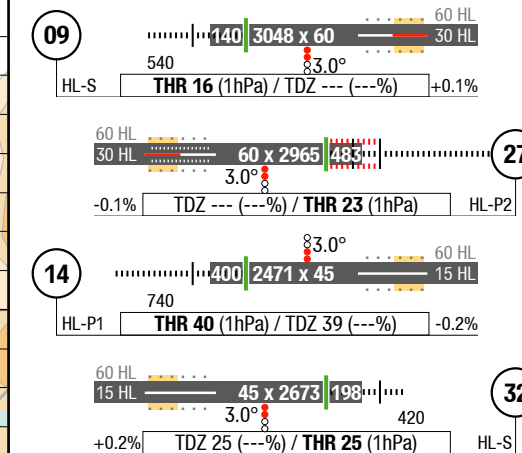
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2-10



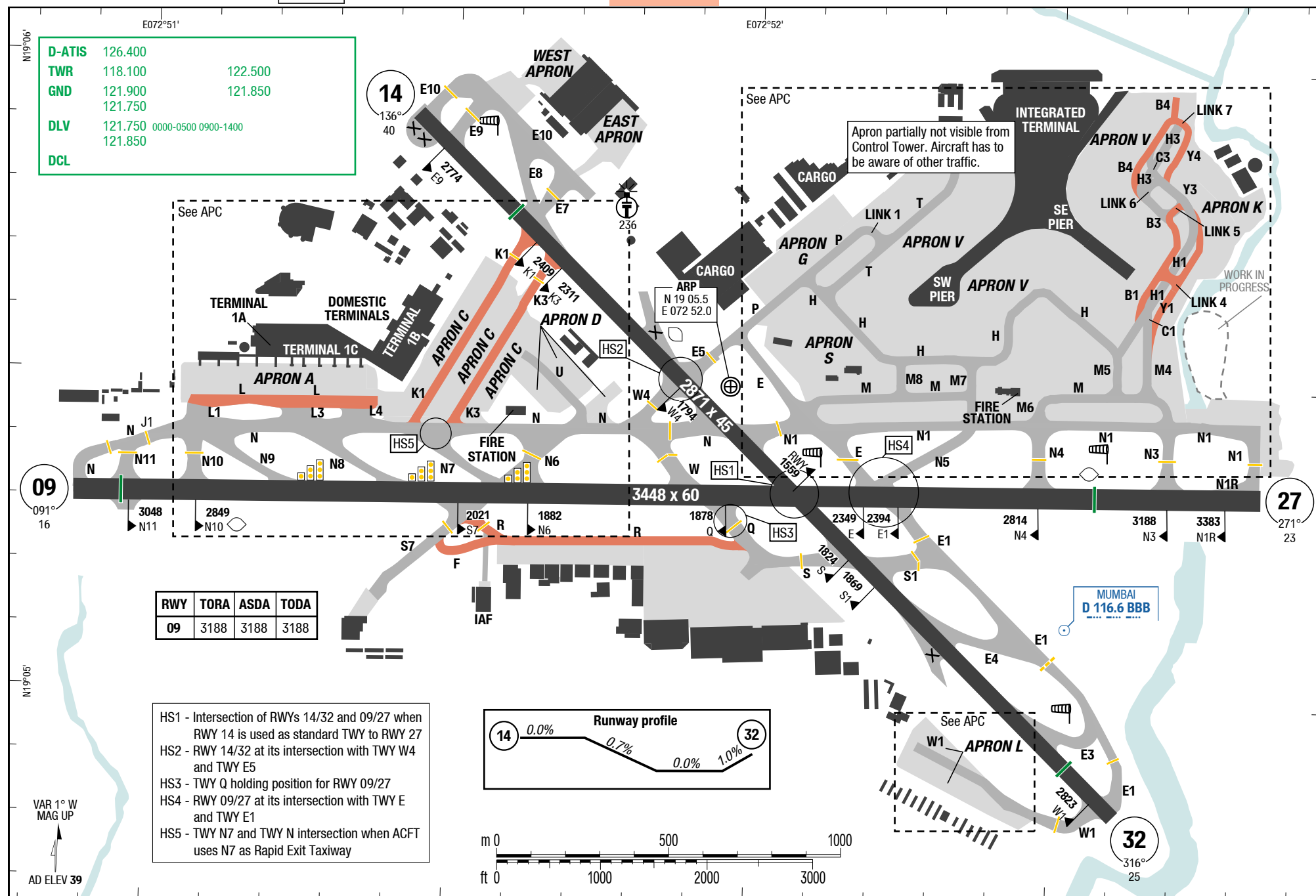
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ACC	132.700	1730-2359
	132.700	North 0000-1730 275°-130°
	125.350	South 0000-1730 130°-275°
	120.500	
RAD	127.900	119.300
	132.600	125.900
APP	127.900	120.350
	119.300	
TWR	118.100	122.500
GND	121.900	
	121.850	
	121.750	
DLV	121.750	0000-0500 0900-1400
	121.850	
DCL		

Landing RWY system:



Changes: ASP, OBST, AD ELEV

✓ **LSY Standard (unitopww)**



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Tempo AGC Taxiroute RWY 14 Phase 1

3-21

Tempo AGC Taxiroute RWY 09 Phase 1

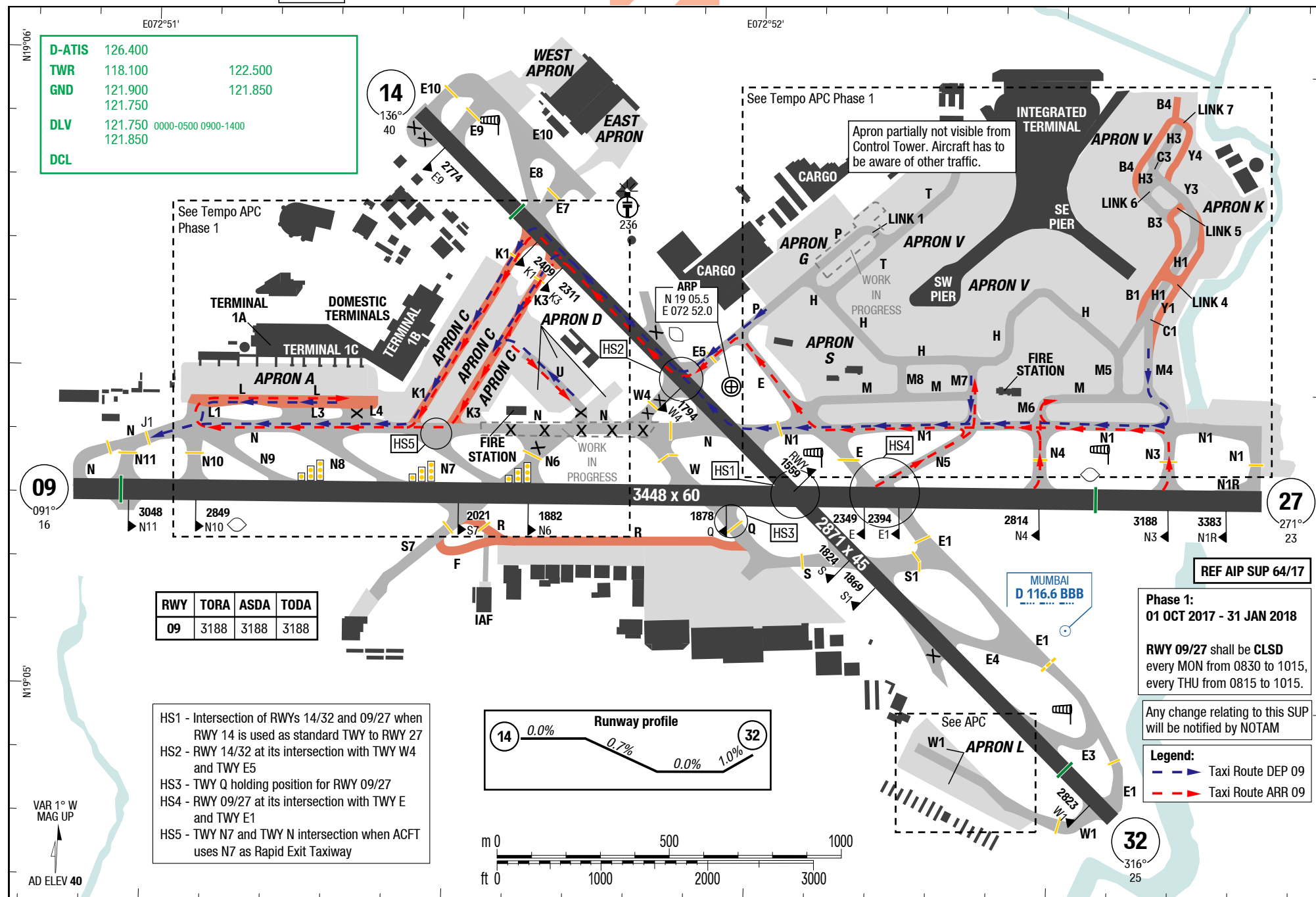
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Tempo AGC Taxiroute RWY 14 Phase 1

Tempo AGC Taxiroute RWY 09 Phase 1



Changes: new

✓ LSY Standard (unitopww)

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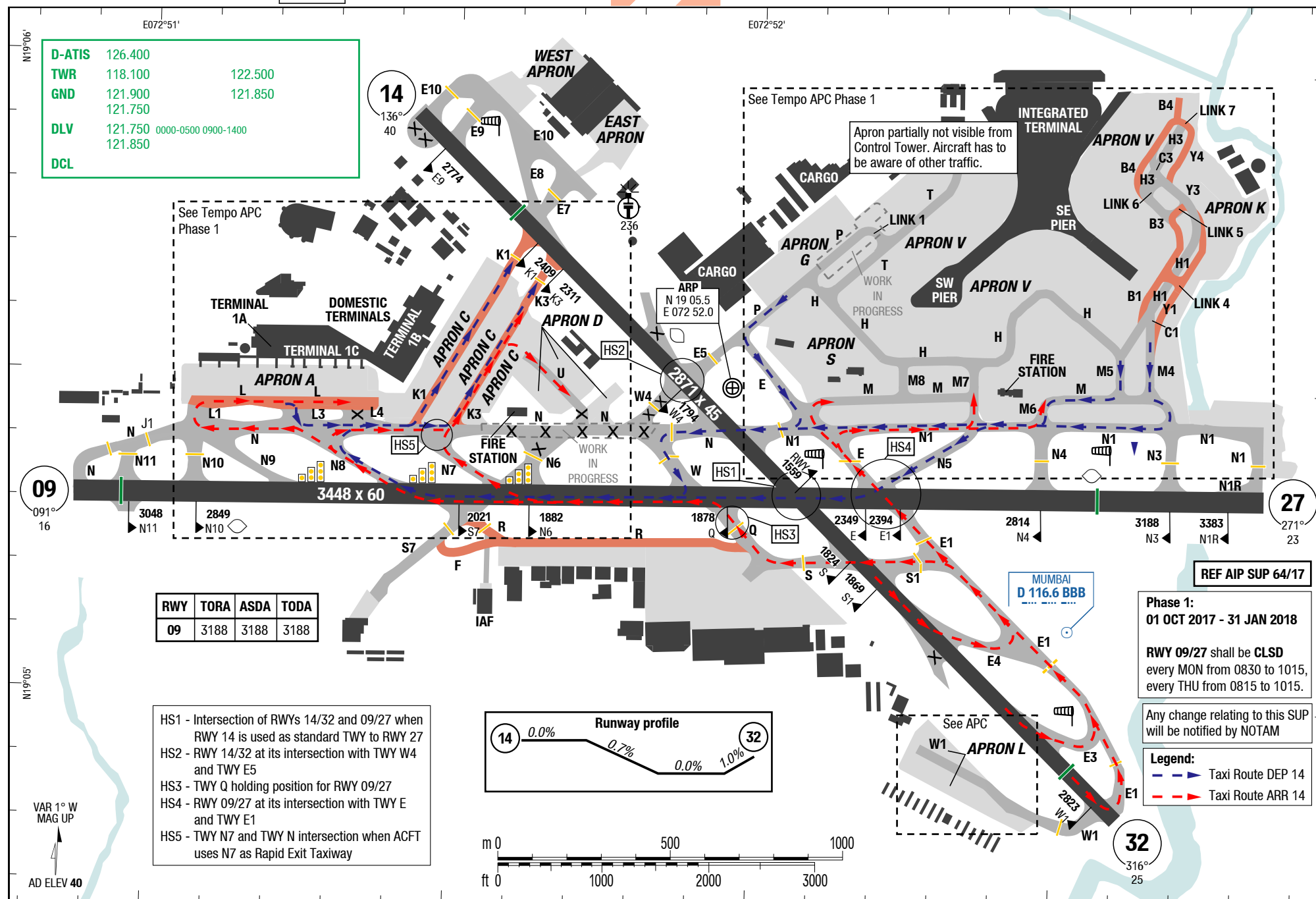
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3-22

Tempo AGC Taxiroute RWY 14 Phase 1

Tempo AGC Taxiroute RWY 14 Phase 1



Changes: new

✓ **LSY Standard (unitopww)**

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Tempo AGC Taxiroute RWY 32 Phase 1

3-23

Tempo AGC Taxiroute RWY 27 Phase 1

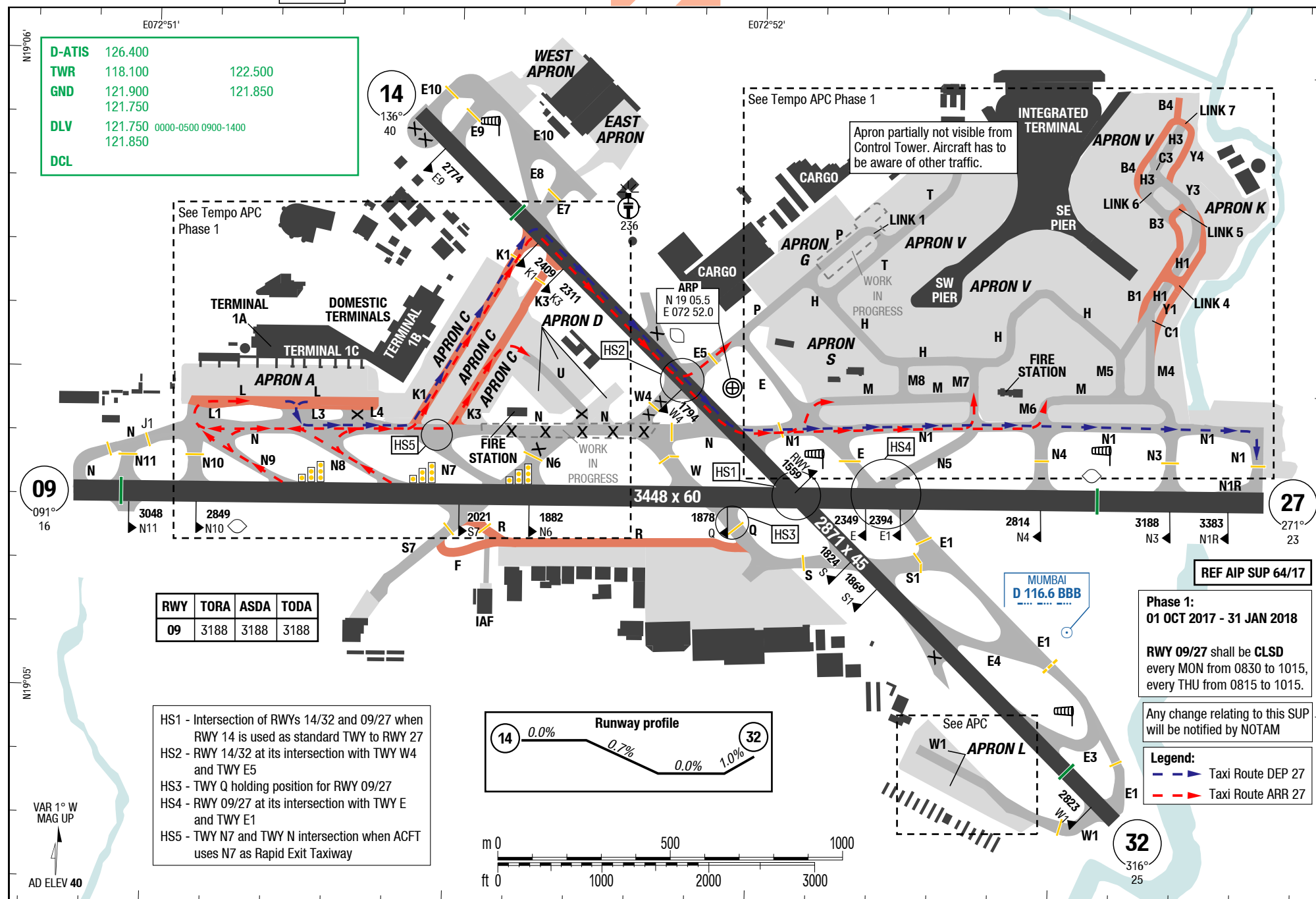
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AGC

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Tempo AGC Taxiroute RWY 32 Phase 1

Tempo AGC Taxiroute RWY 27 Phase 1



Changes: new

✓ **LSY Standard (unitopww)**

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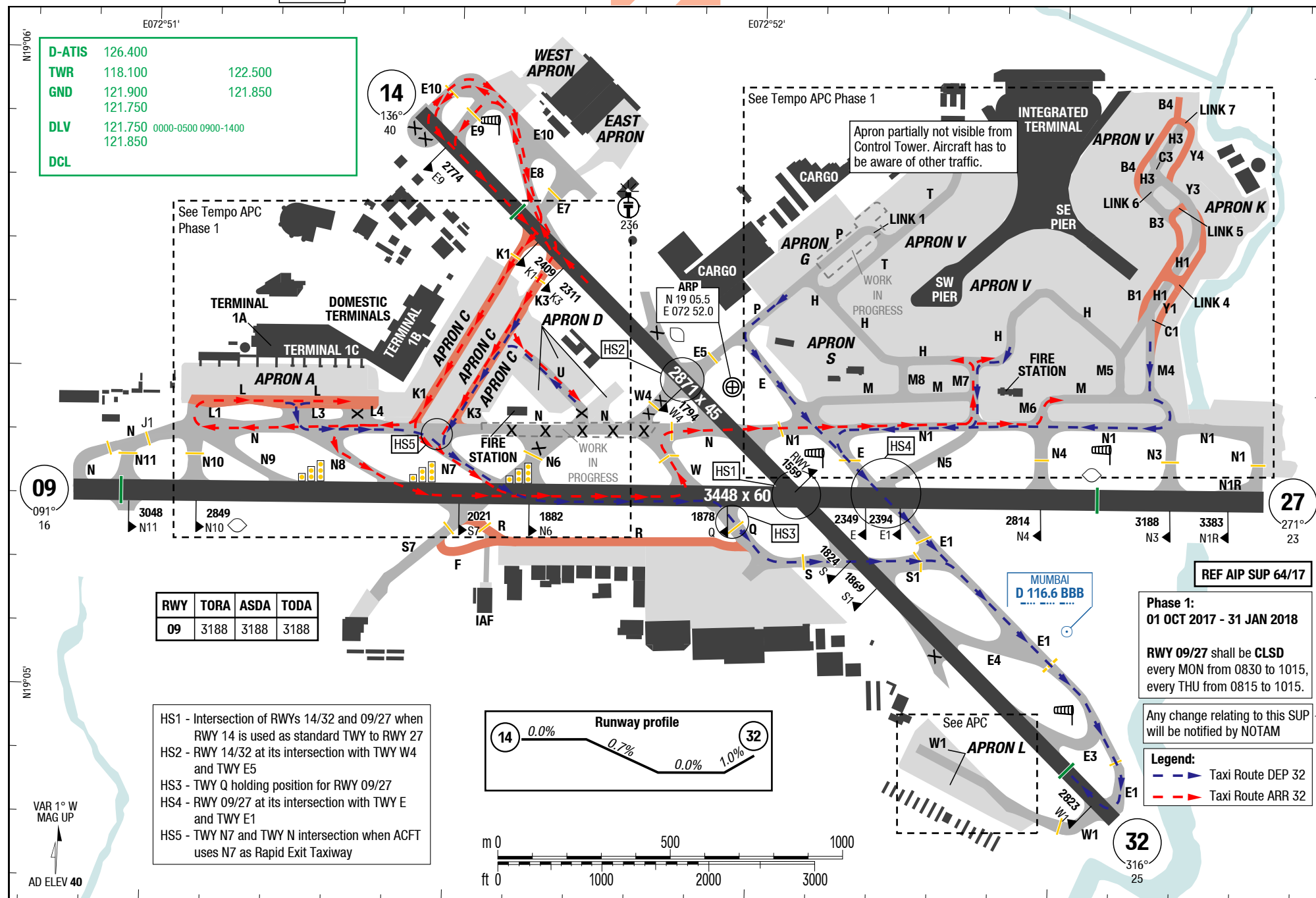
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3-24

Tempo AGC Taxiroute RWY 32 Phase 1

Tempo AGC Taxiroute RWY 32 Phase 1



Changes: new

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Tempo AGC Taxiroute RWY 14 Phase 2

3-25

Tempo AGC Taxiroute RWY 09 Phase 2

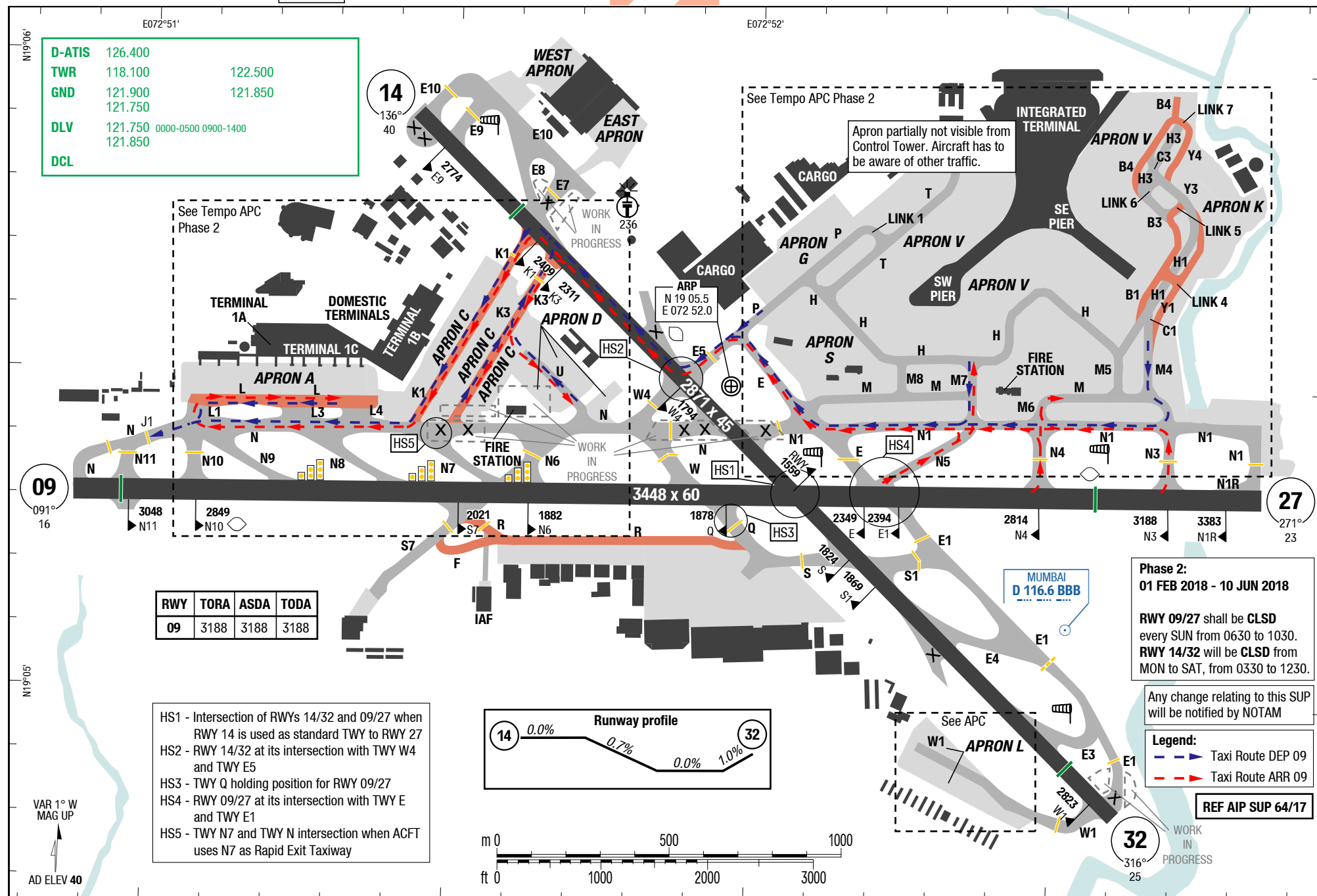
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Tempo AGC Taxiroute RWY 14 Phase 2

Tempo AGC Taxiroute RWY 09 Phase 2



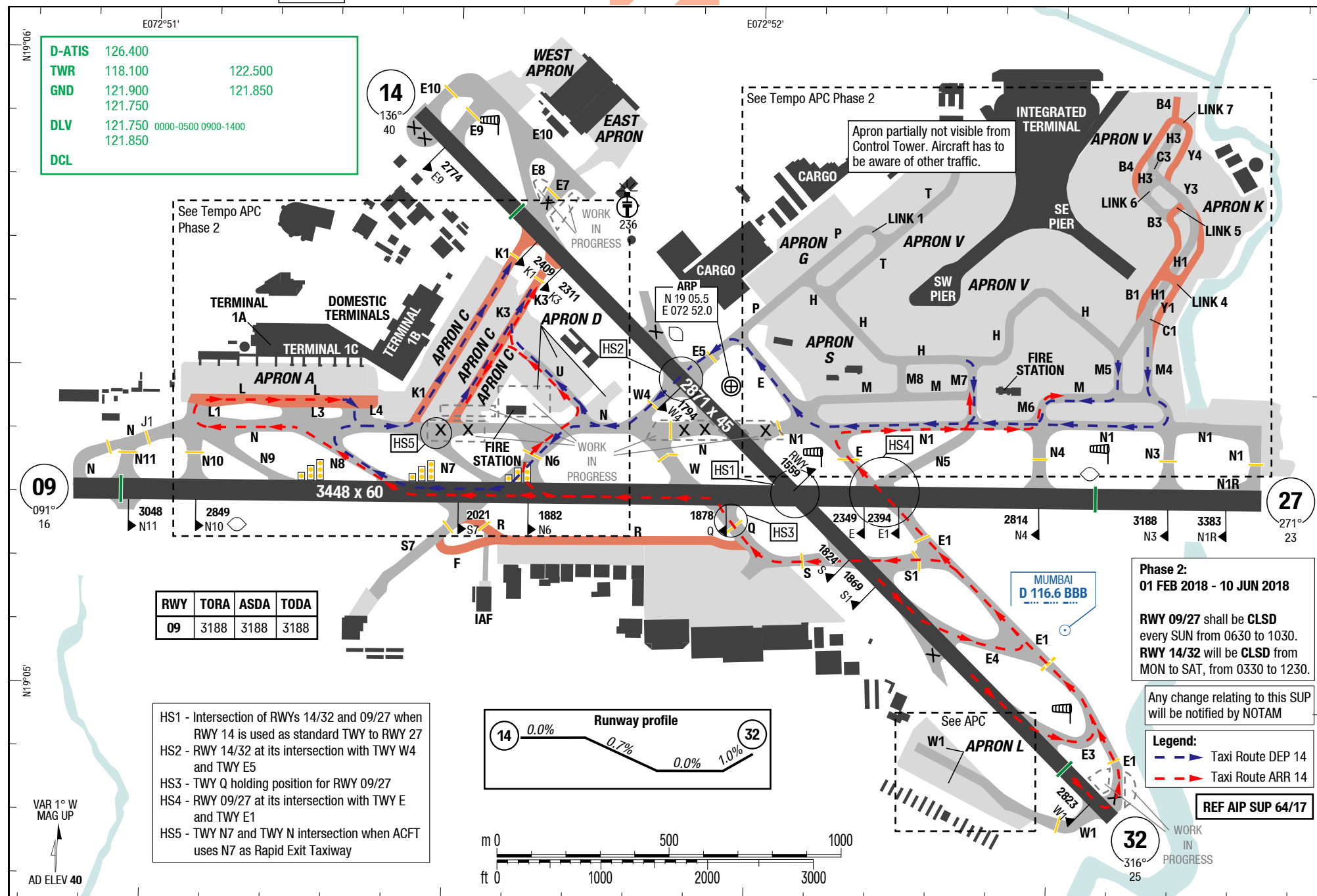
Changes: new

✓ LSY Standard (unitopww)

3-26

Tempo AGC Taxiroute RWY 14 Phase 2

Tempo AGC Taxiroute RWY 14 Phase 2



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Tempo AGC Taxioute RWY 32 Phase 2

3-27

Tempo AGC Taxioute RWY 27 Phase 2

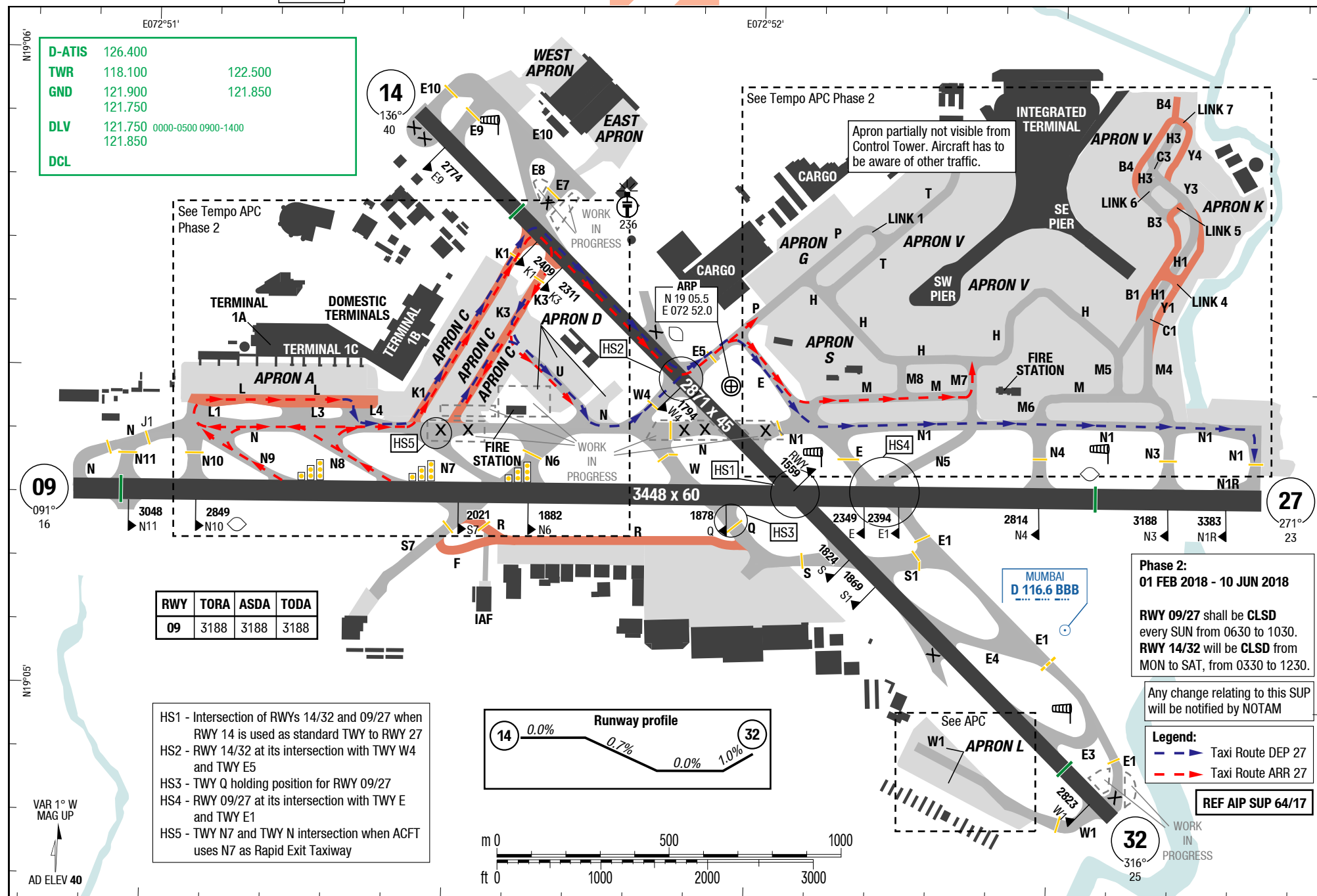
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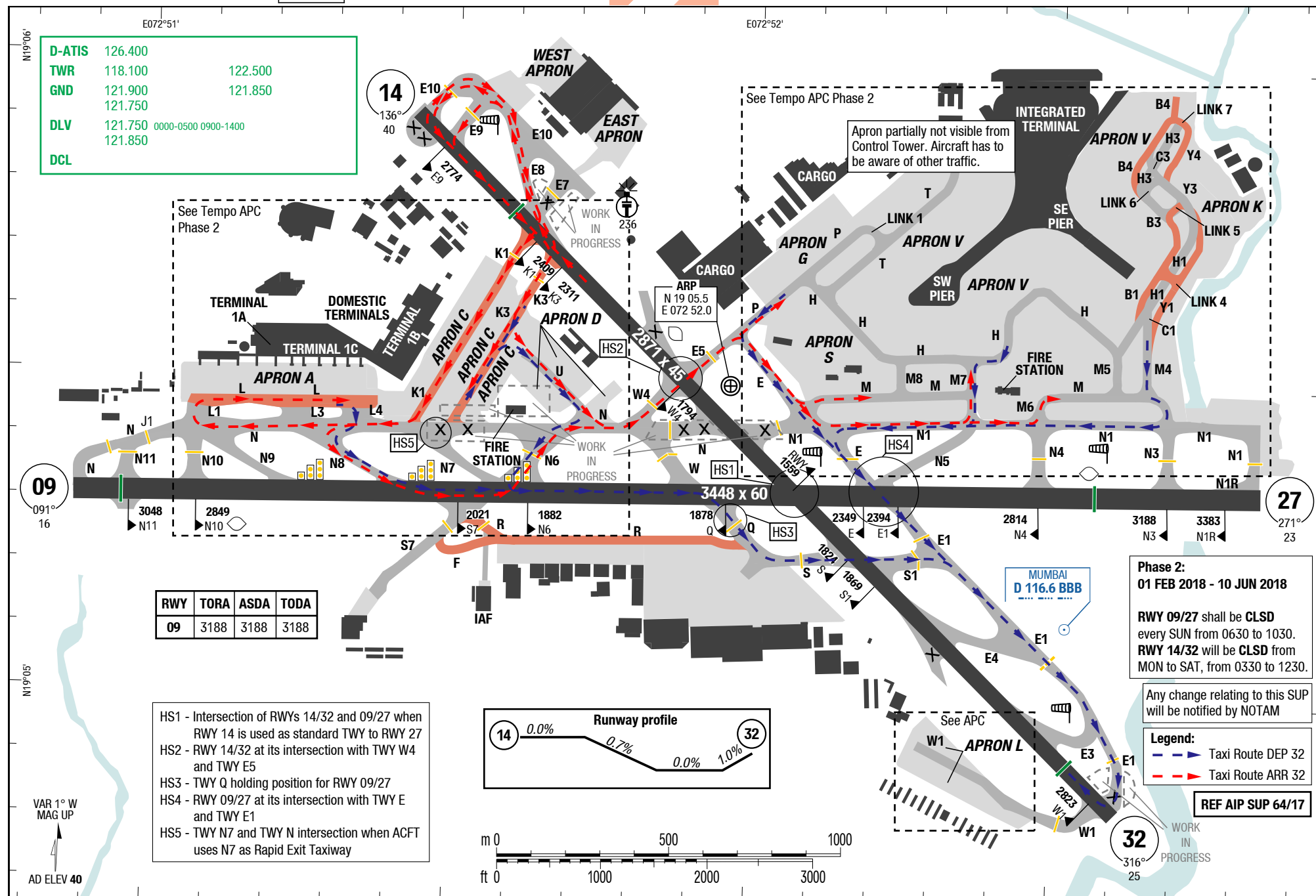
Tempo AGC Taxioute RWY 32 Phase 2

Tempo AGC Taxioute RWY 27 Phase 2



Changes: New

✓ LSY Standard (unitopww)



18-MAY-2017

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3-30

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Stand Coordinates

APC

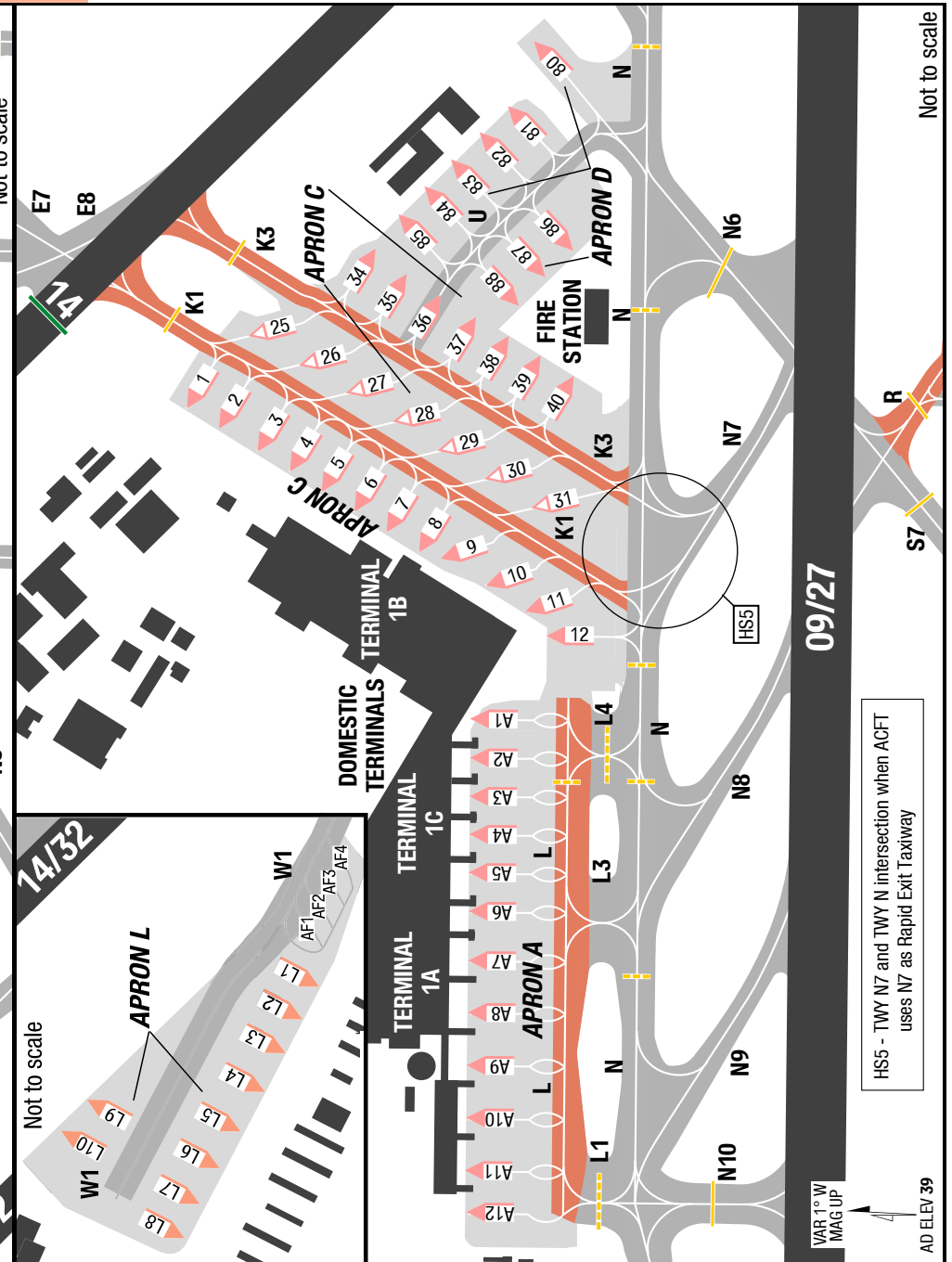
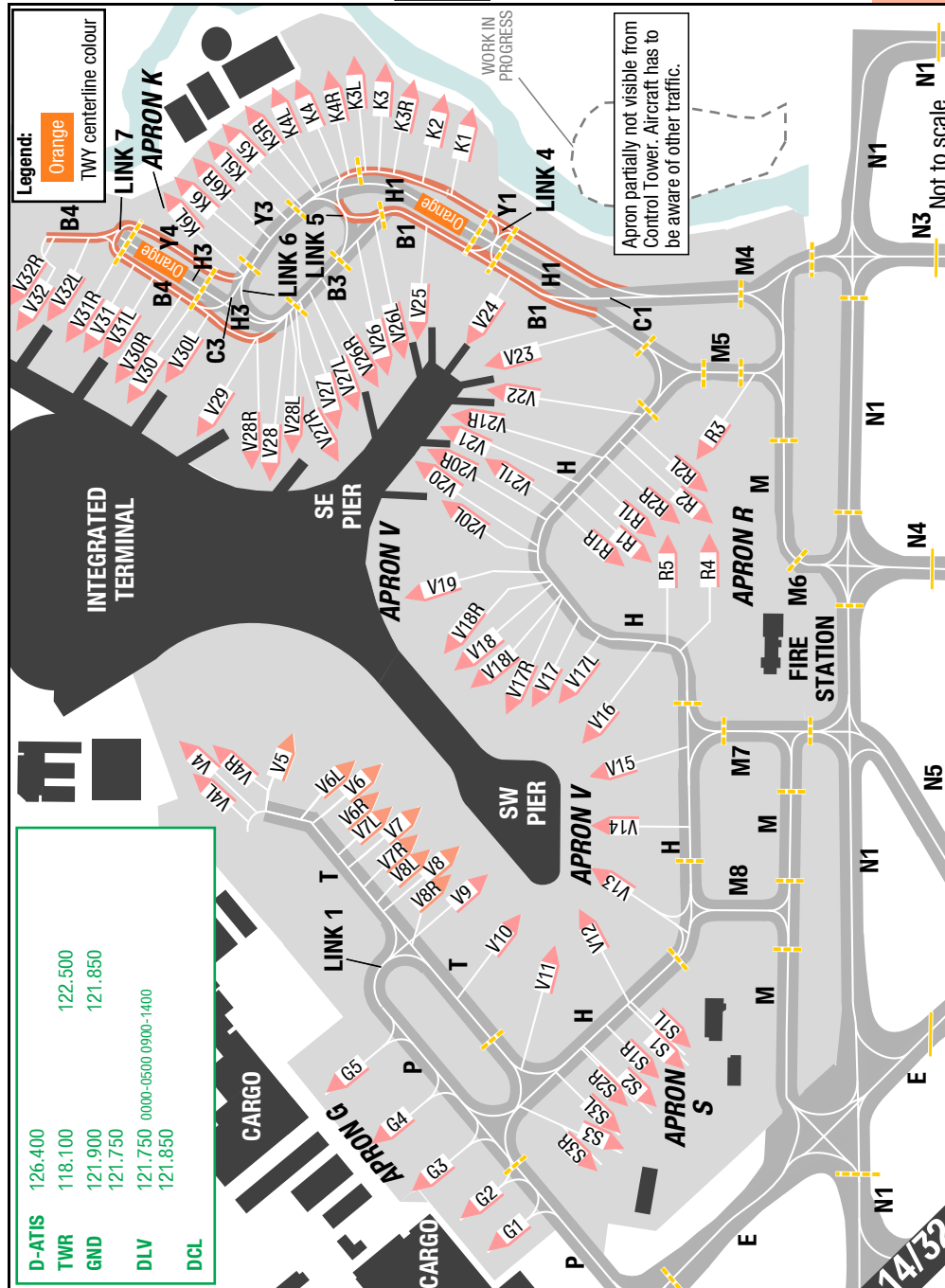
APC

APC

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Stand Coordinates

APC



Changes: Parkingstand, TWY H1, H3

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3-40

Stand Coordinates

APC

APC

Stand Coordinates

Stand Coordinates

Domestic Terminal 1A/1B/1C
International Terminals
SW PIER
Cargo

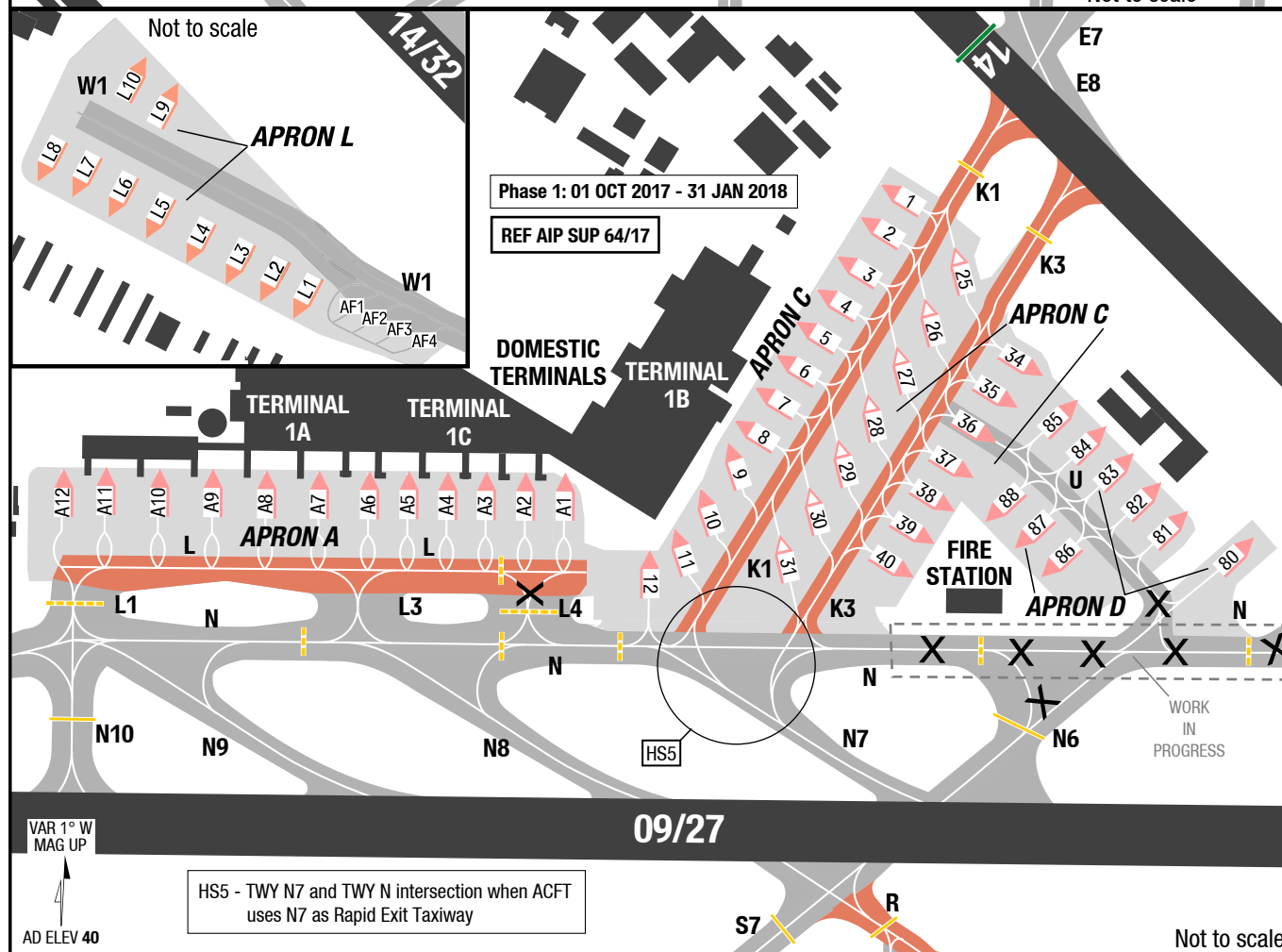
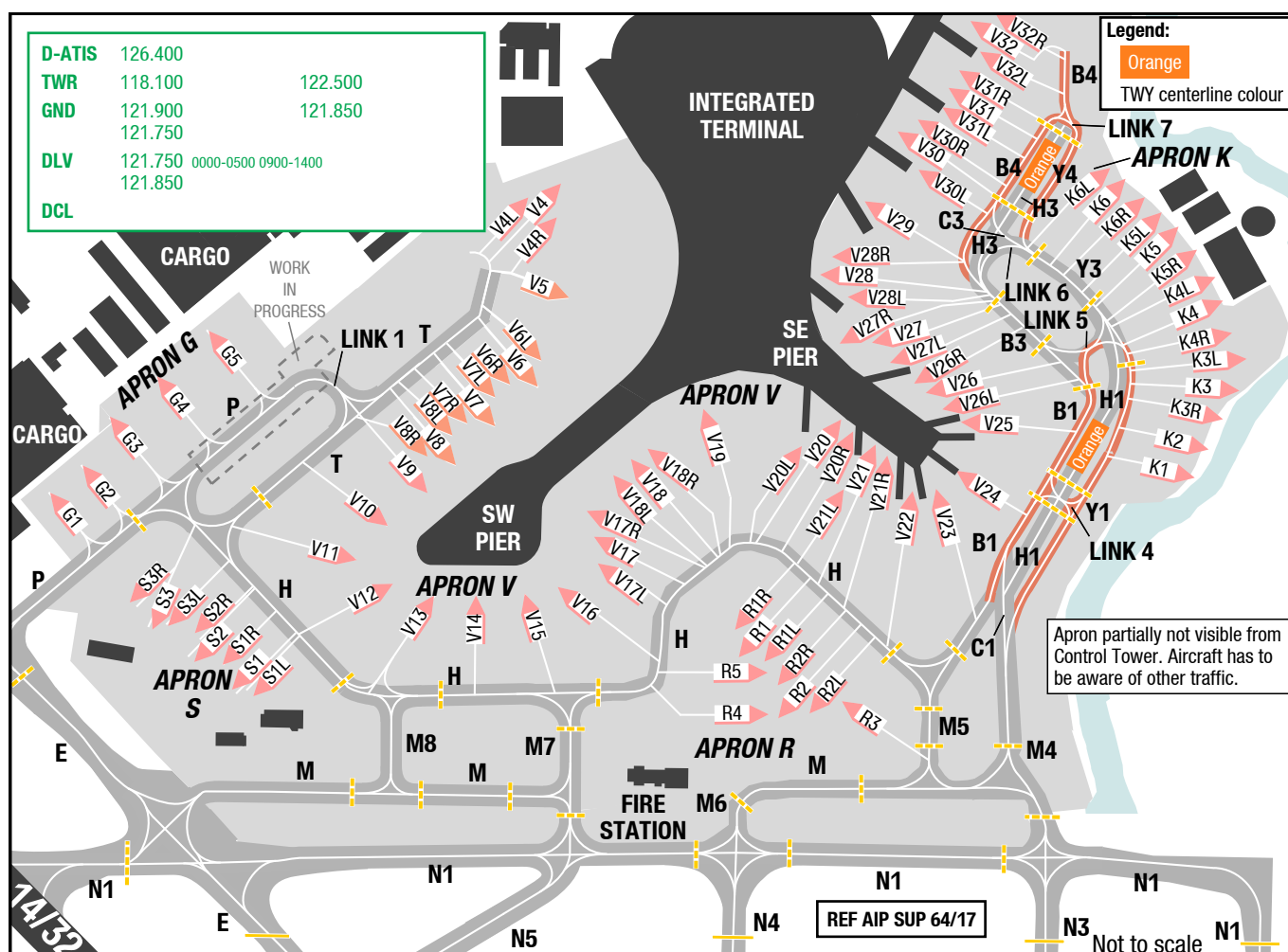
APRON A		APRON K		APRON G	
A1	N19 05.5 E072 51.4	K1, K2, K3R	N19 05.7 E072 52.8	G1-G3	N19 05.7 E072 52.0
A2-A5	N19 05.5 E072 51.3	K3L-K4R	N19 05.8 E072 52.8	G4	N19 05.7 E072 52.1
A6-A9	N19 05.5 E072 51.2	K5L-K5	N19 05.9 E072 52.8	G5	N19 05.8 E072 52.1
A10-A12	N19 05.5 E072 51.1	K5R	N19 05.8 E072 52.8		
		K6L-K6R	N19 05.9 E072 52.7		

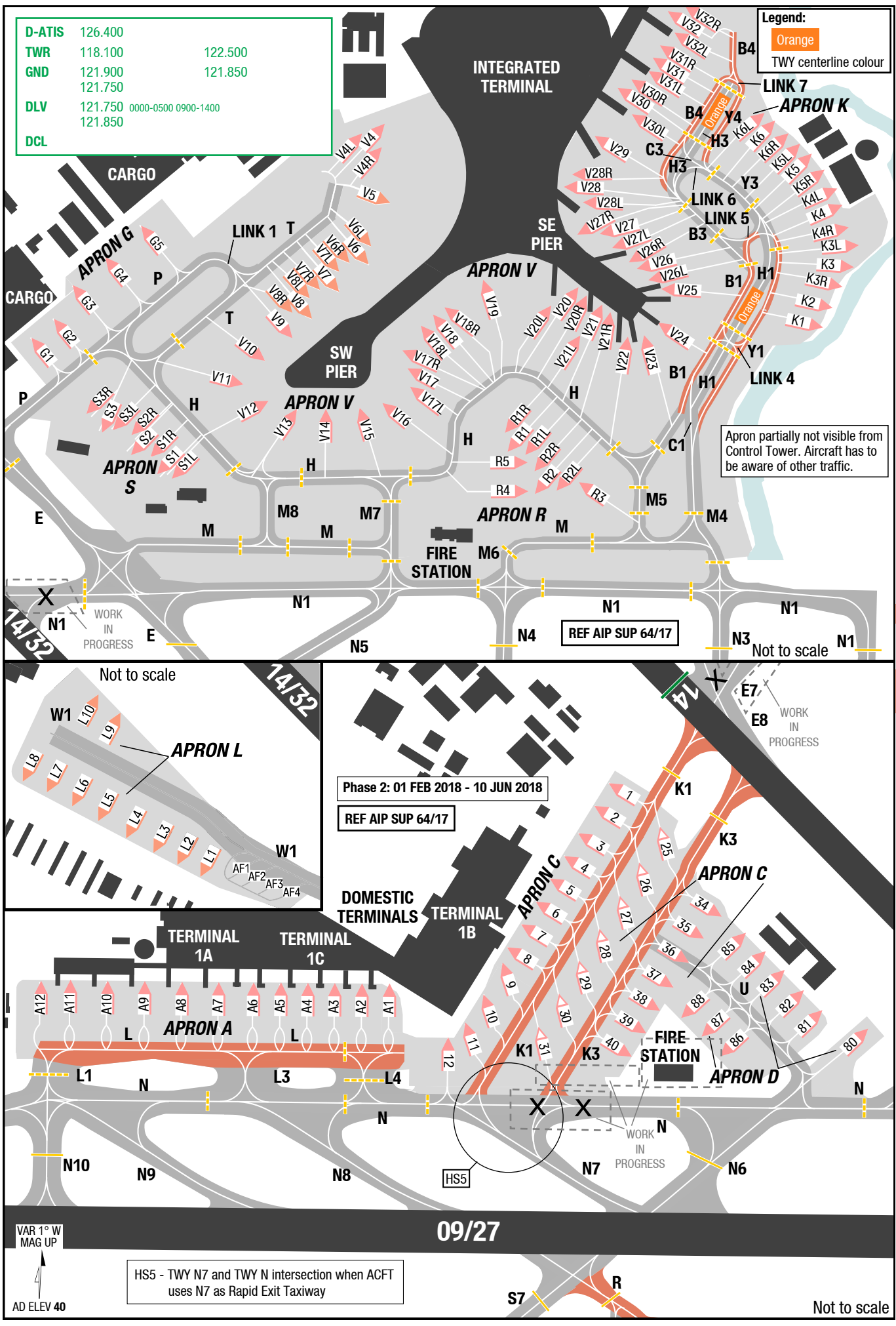
APRON C		APRON R		APRON L	
1-2	N19 05.7 E072 51.5	R1L-R1R	N19 05.6 E072 52.5	L1, L2	N19 04.8 E072 52.4
3-7	N19 05.6 E072 51.5	R2L, R2	N19 05.5 E072 52.5	L3	N19 04.9 E072 52.4
8-9	N19 05.5 E072 51.5	R2R	N19 05.6 E072 52.5	L4-L10	N19 04.9 E072 52.3
10-12	N19 05.5 E072 51.4	R3, R4	N19 05.5 E072 52.5	AF1-AF4	Not published
25-27	N19 05.6 E072 51.6	R5	N19 05.6 E072 52.5		

APRON S	
28	N19 05.6 E072 51.5
29-31	N19 05.5 E072 51.5
34-35	N19 05.6 E072 51.6
36-40	N19 05.5 E072 51.6
APRON V	
V4L	N19 05.9 E072 52.3
V4, V4R	N19 05.9 E072 52.4
V5	N19 05.8 E072 52.4
V6L	N19 05.8 E072 52.3
V6	N19 05.8 E072 52.4

APRON D	
80	N19 05.5 E072 51.8
81-84	N19 05.5 E072 51.7
85	N19 05.6 E072 51.7
86-88	N19 05.5 E072 51.6
V6R, V7L	N19 05.8 E072 52.3
V7-V9	N19 05.7 E072 52.3
V10	N19 05.7 E072 52.2
V11-V12	N19 05.6 E072 52.2
V13-V16	N19 05.6 E072 52.3
V17L	N19 05.6 E072 52.4
V17-V19	N19 05.7 E072 52.4
V20L-V21L	N19 05.7 E072 52.5
V21-V26R	N19 05.7 E072 52.6
V27L-V28	N19 05.8 E072 52.6

V28R	N19 05.9 E072 52.5
V29-V31L	N19 05.9 E072 52.6
V31, V31R	N19 06.0 E072 52.6
V32L, V32R	N19 06.0 E072 52.7
V32	N19 06.0 E072 52.6





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07-SEP-2017

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India Mumbai Chhatrapati Shivaji

Tempo Code F ONLY Taxiroute RWY 27 Phase 1

3-46

Tempo Code F ONLY Taxiroute RWY 09 Phase 1

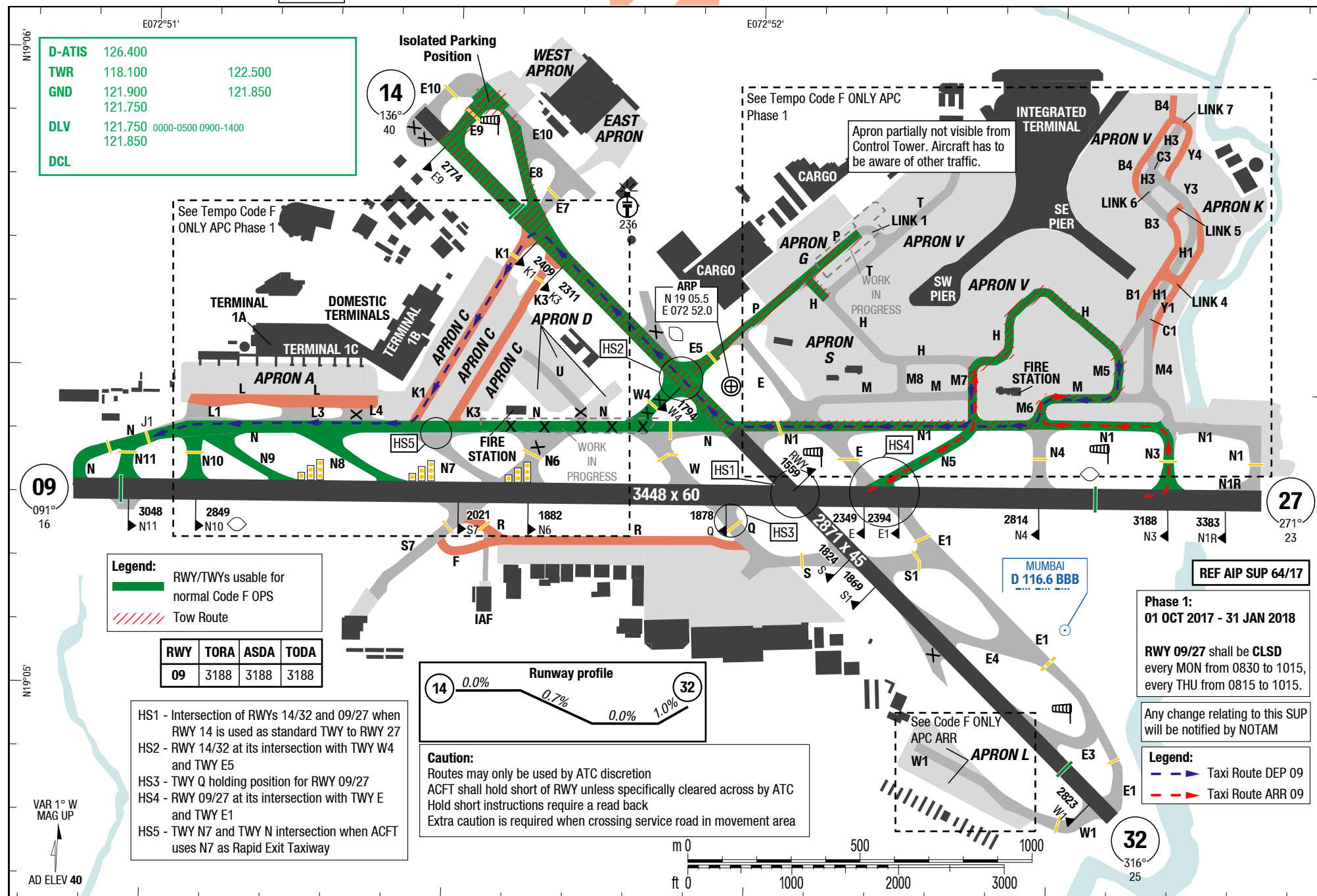
AGC

AGC

Chhatrapati Shivaji Mumbai India

Tempo Code F ONLY Taxiroute RWY 27 Phase 1

Tempo Code F ONLY Taxiroute RWY 09 Phase 1



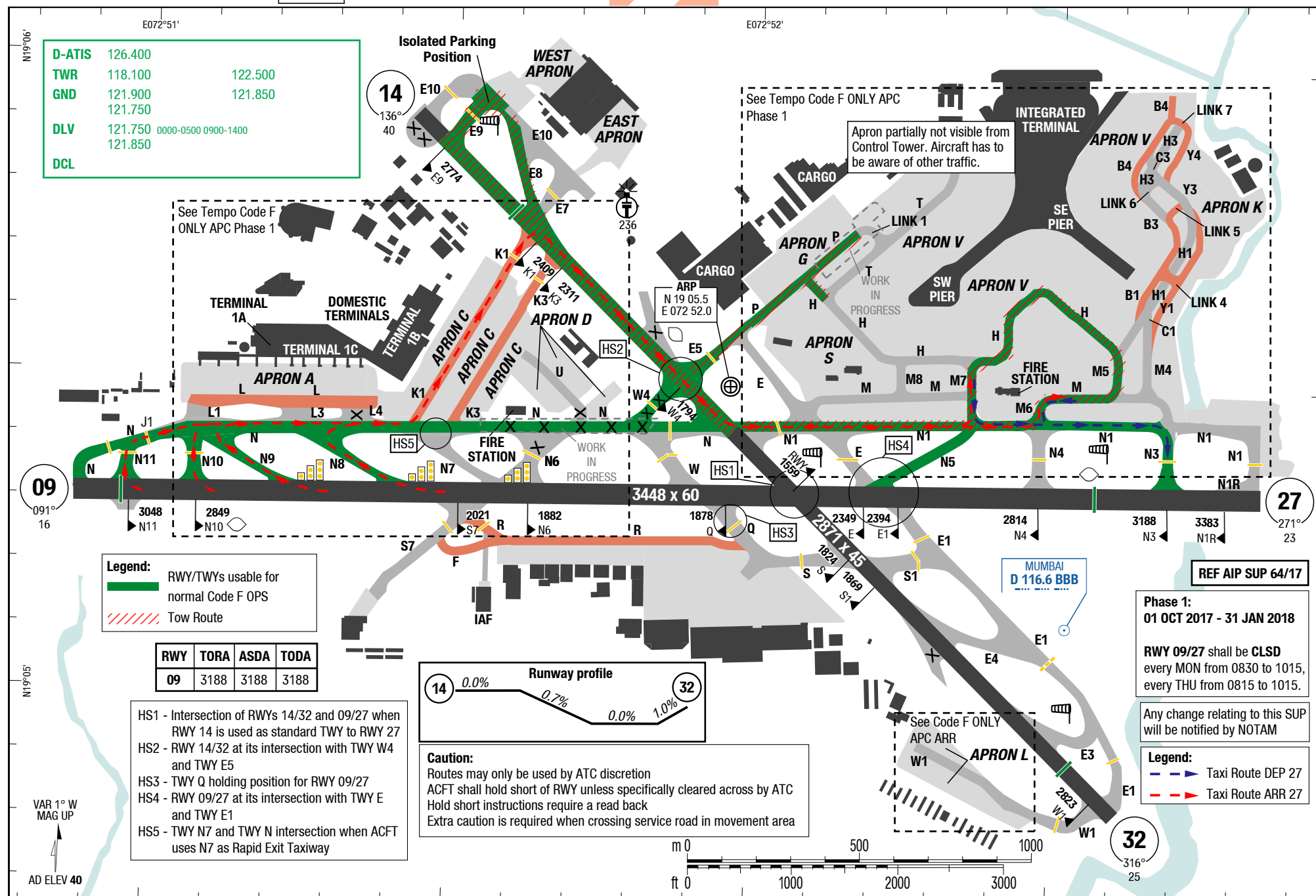
Changes: new

✓ LSY Standard (unitopww)

3-47

Tempo Code F ONLY Taxiroute RWY 27 Phase 1

Tempo Code F ONLY Taxiroute RWY 27 Phase 1



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Tempo Code F ONLY Taxiroute RWY 27 Phase 2

3-48

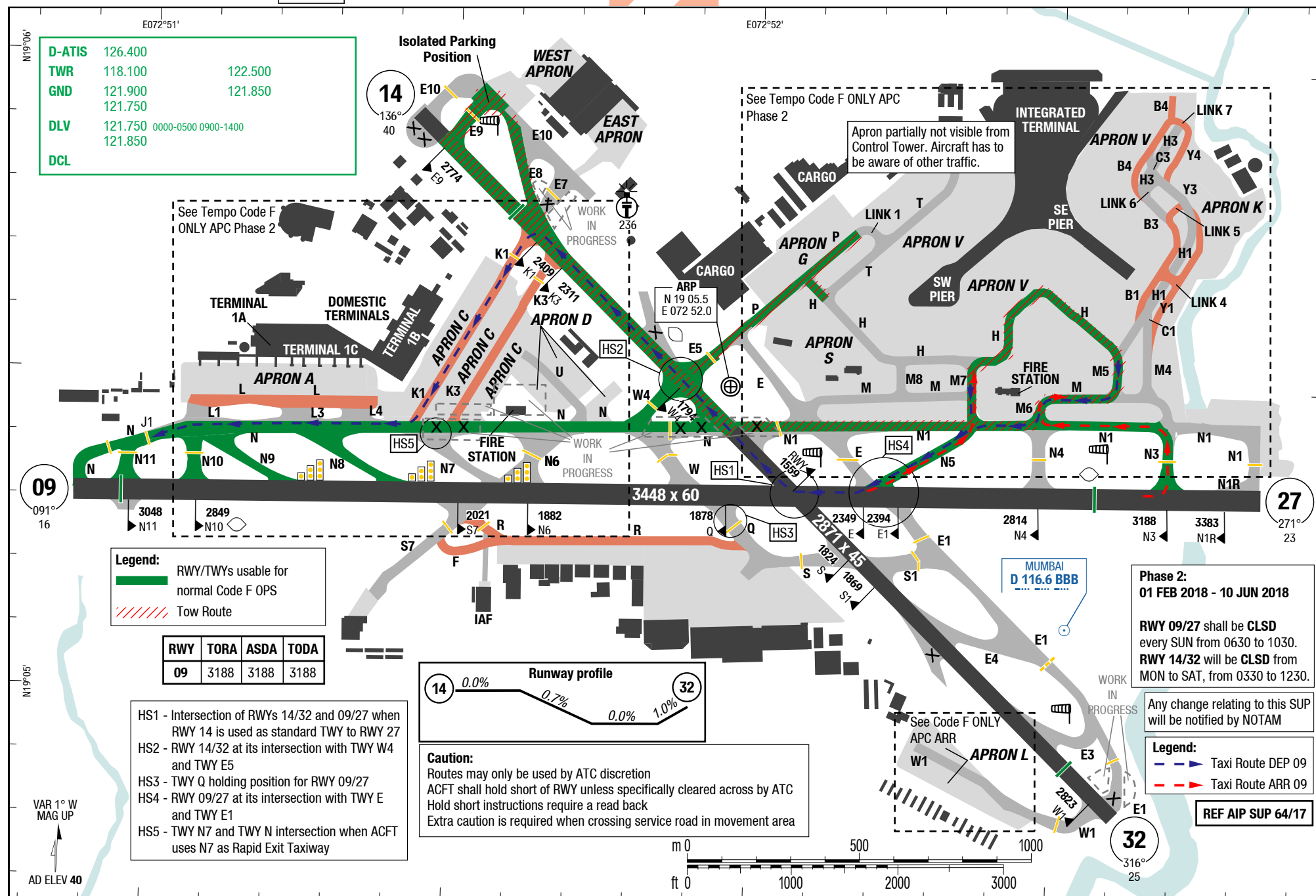
Tempo Code F ONLY Taxiroute RWY 09 Phase 2

AGC

AGC

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Tempo Code F ONLY Taxiroute RWY 27 Phase 2

Tempo Code F ONLY Taxiroute RWY 09 Phase 2

Changes: new

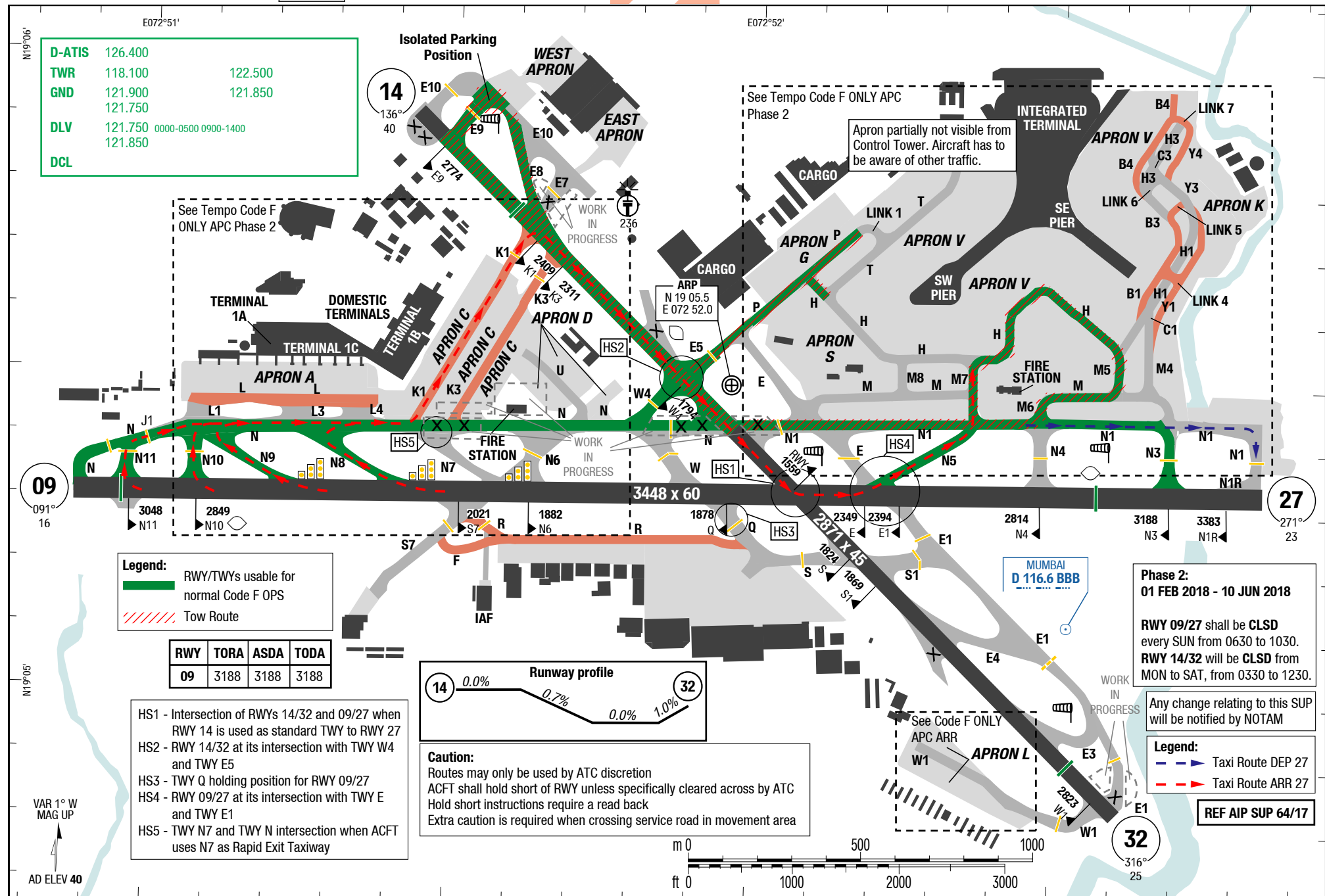
✓ **LSY Standard (unitopww)**

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3-49

Tempo Code F ONLY Taxiroute RWY 27 Phase 2

Tempo Code F ONLY Taxiroute RWY 27 Phase 2



13-JUL-2017

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Code F ONLY Taxi Routes DEP

3-50

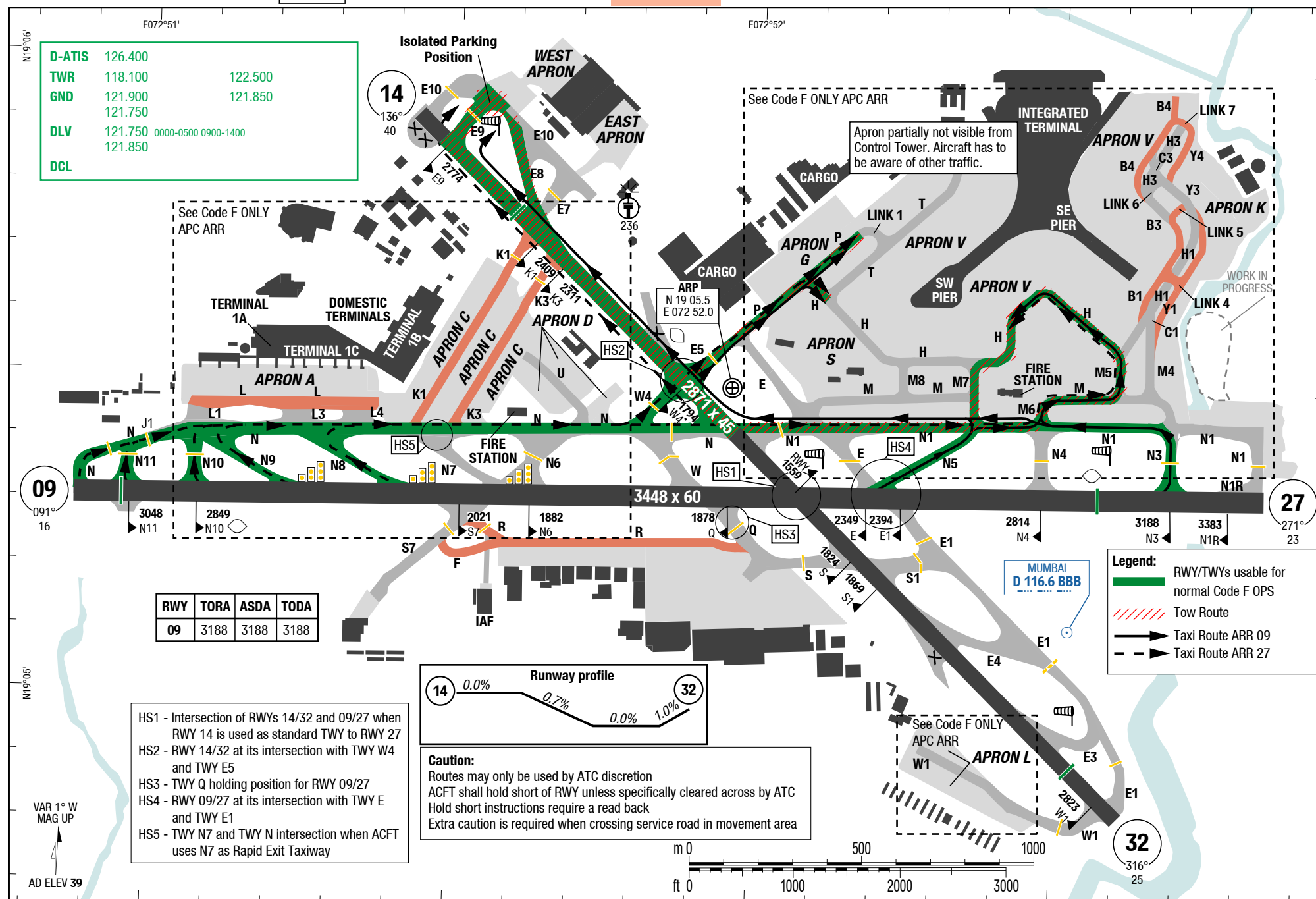
Code F ONLY Taxi Routes ARR

AGC

AGC

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Code F ONLY Taxi Routes DEP

Code F ONLY Taxi Routes ARR

Changes: TWY F, N1R, TKOF INT

✓ **LSY Standard (unitopww)**

Effective 20-JUL-2017

13-JUL-2017

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India Mumbai Chhatrapati Shivaji

AGC

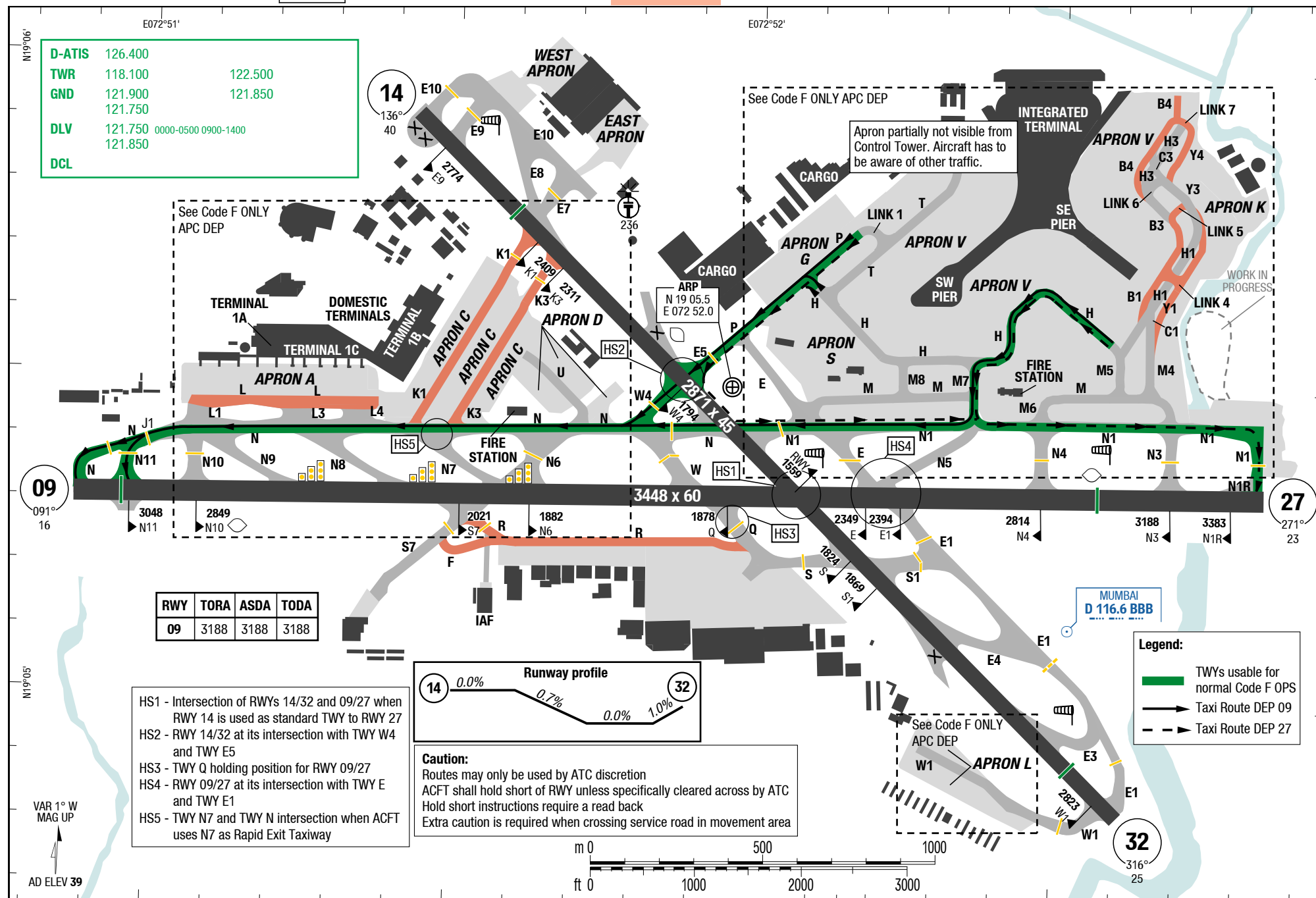
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Chhatrapati Shivaji Mumbai India

3-60

Code F ONLY Taxi Routes DEP

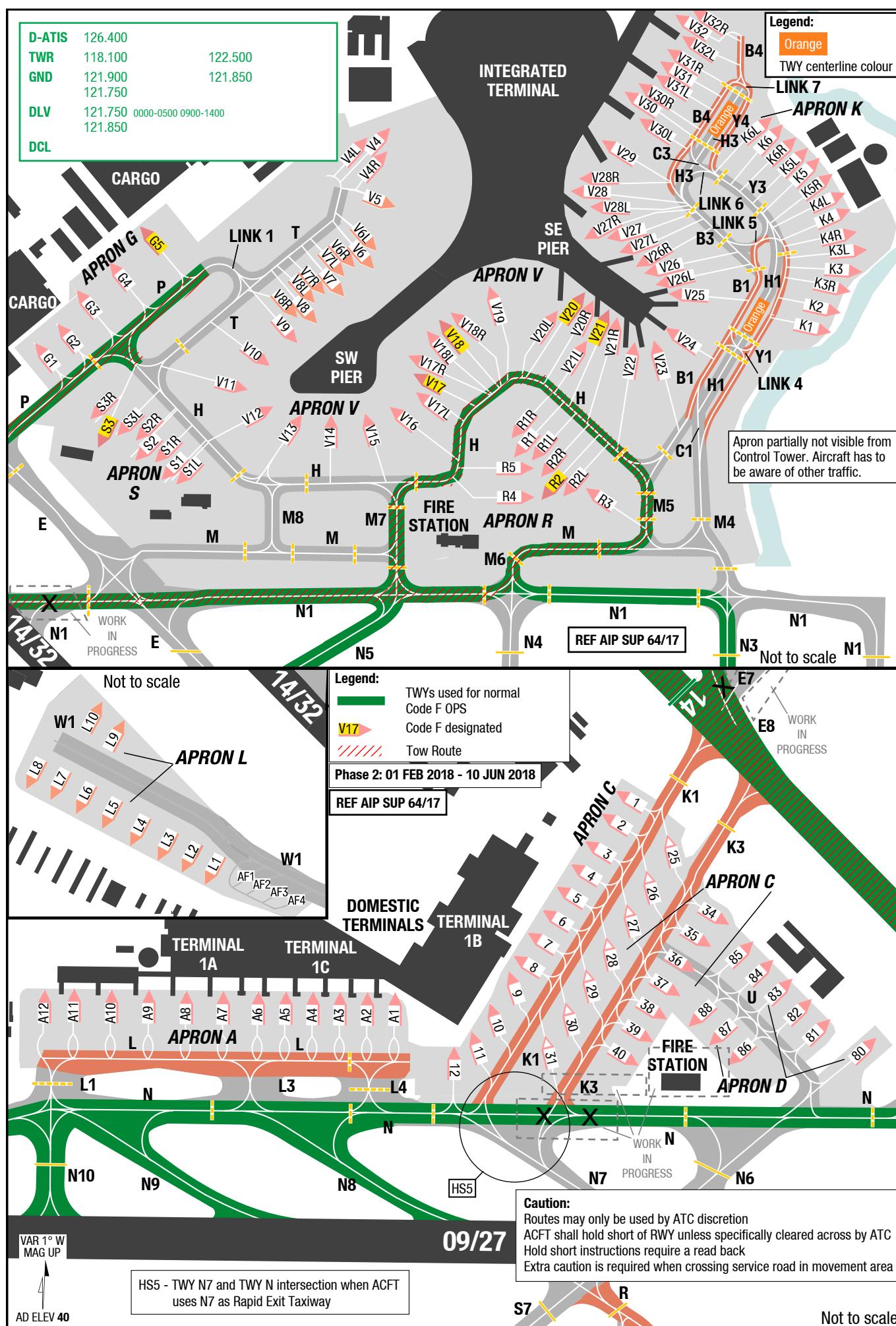
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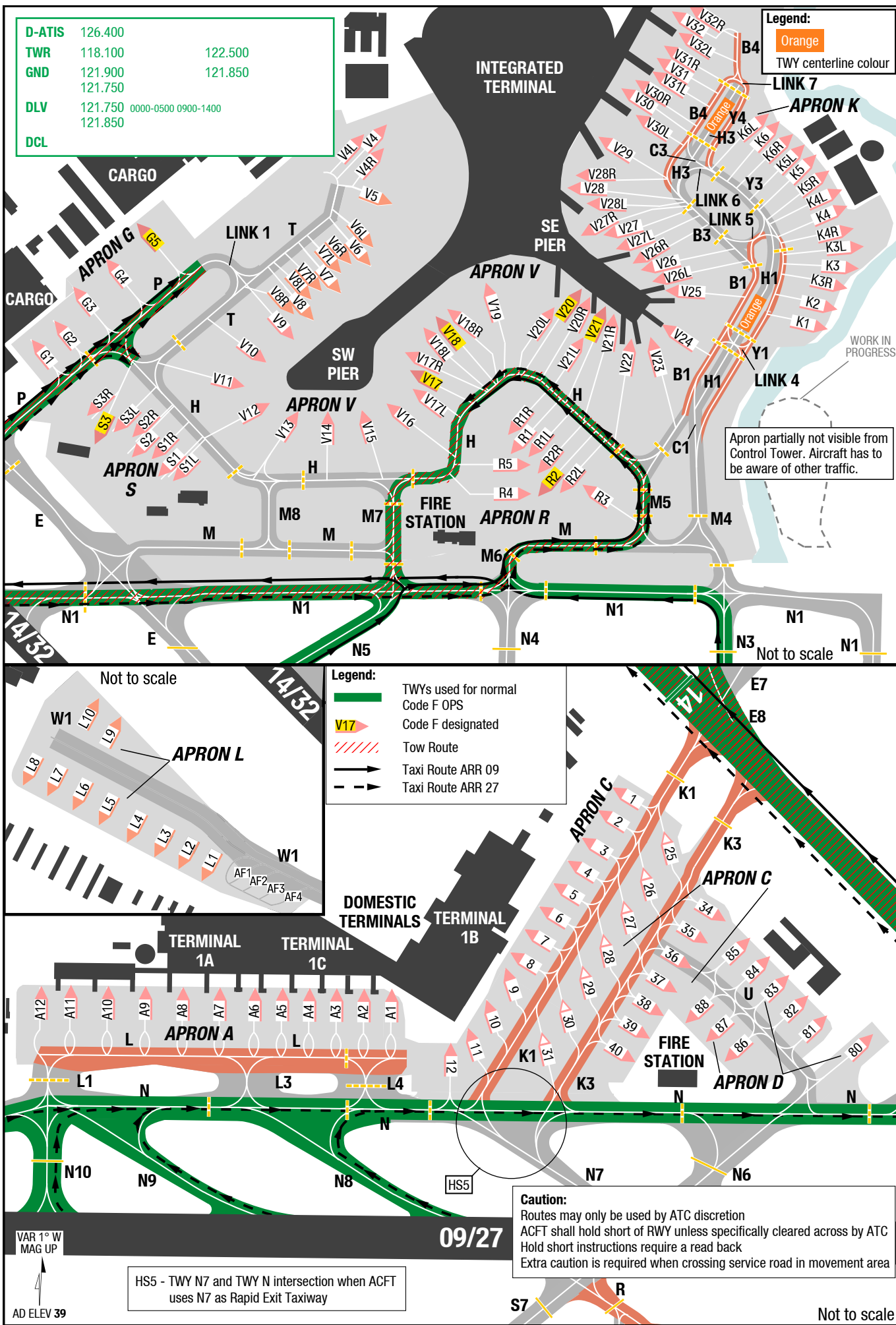


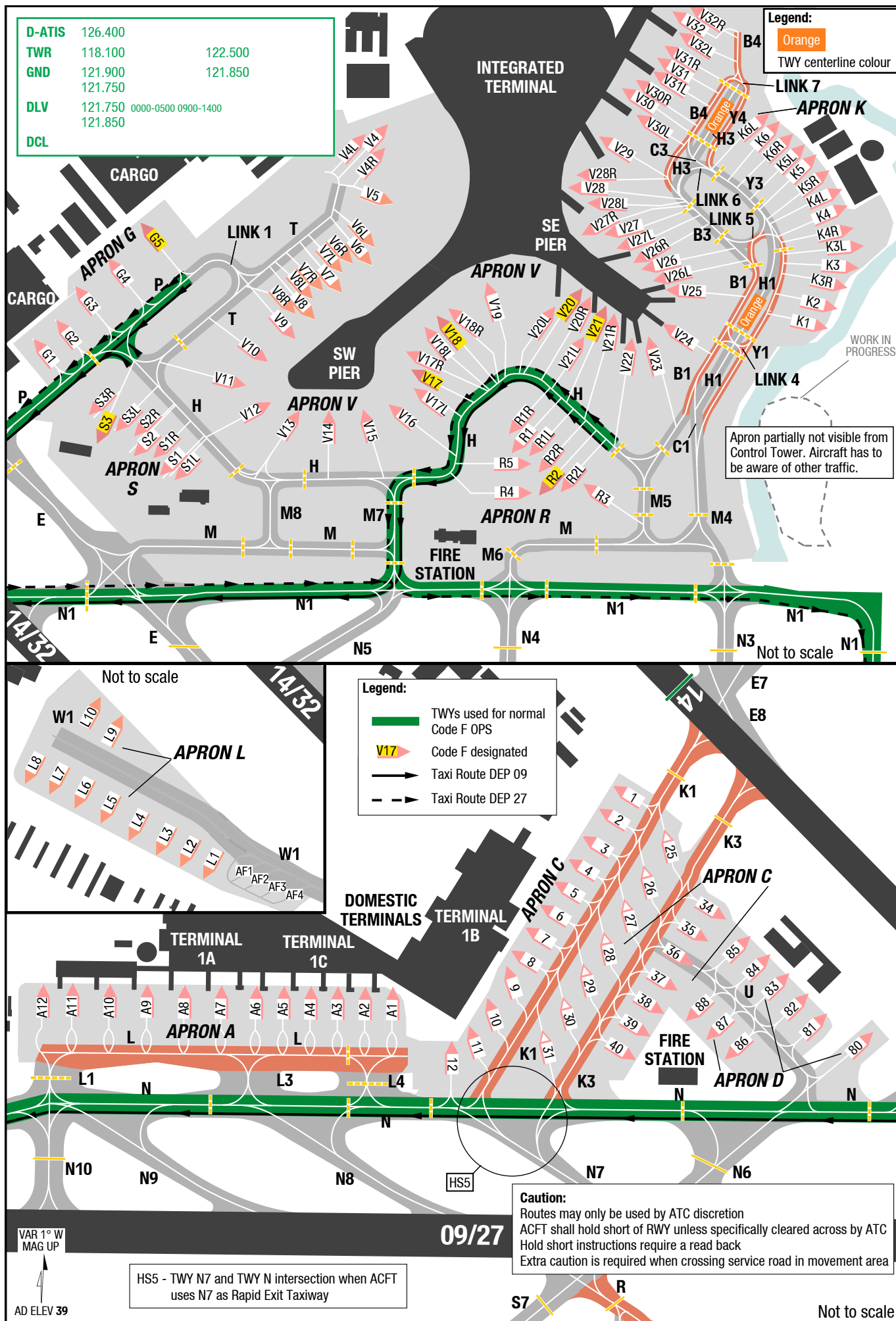
Changes: TWY F, N1R, TKOF INT

✓ LSY Standard (unitopww)









13-JUL-2017

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4-10

RNAV SIDs RWY 09 (with Radar)

India **Mumbai** Chhatrapati Shivaji

RNAV SIDs RWY 14 (with Radar)

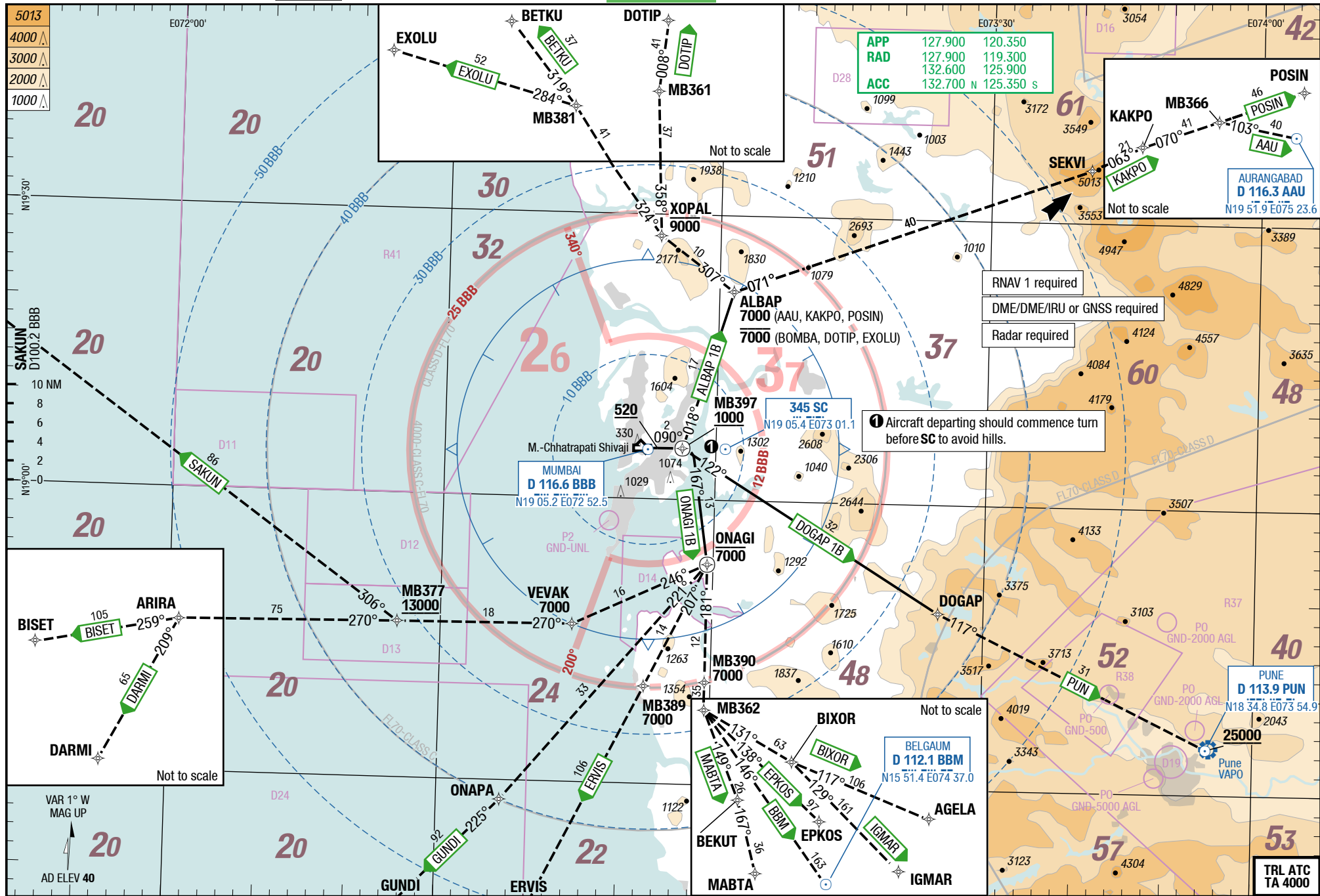
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sid

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RNAV SIDs RWY 14 (with Radar)

RNAV SIDs RWY 09 (with Radar)



Changes: ALT, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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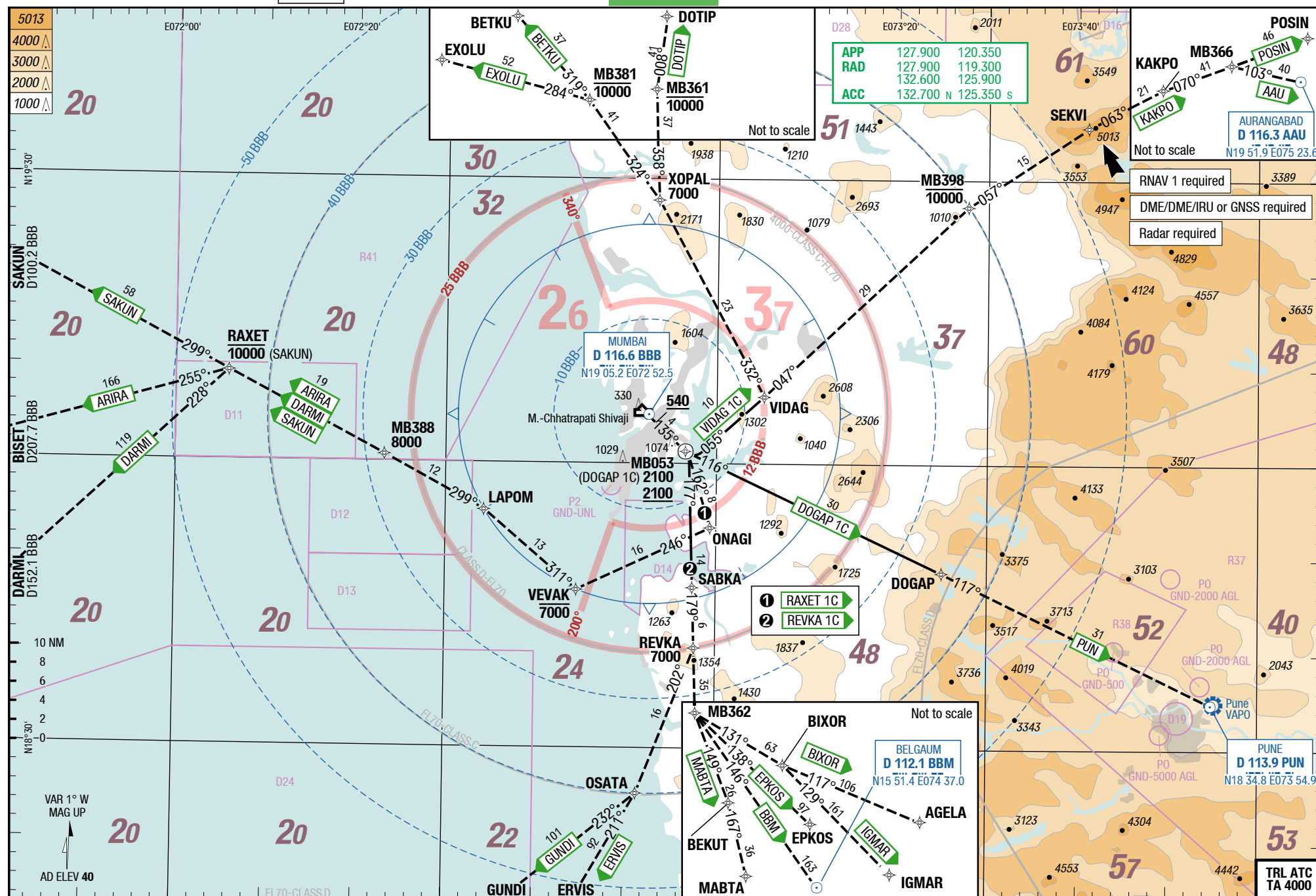
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SID

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RNAV SIDs RWY 14 (with Radar)

4-20 RNAV SIDs RWY 14 (with Radar)



Changes: ALT, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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RNAV SIDs RWY 27 (with Radar)

4-30

RNAV SIDs RWY 14 (with Radar via BBB)

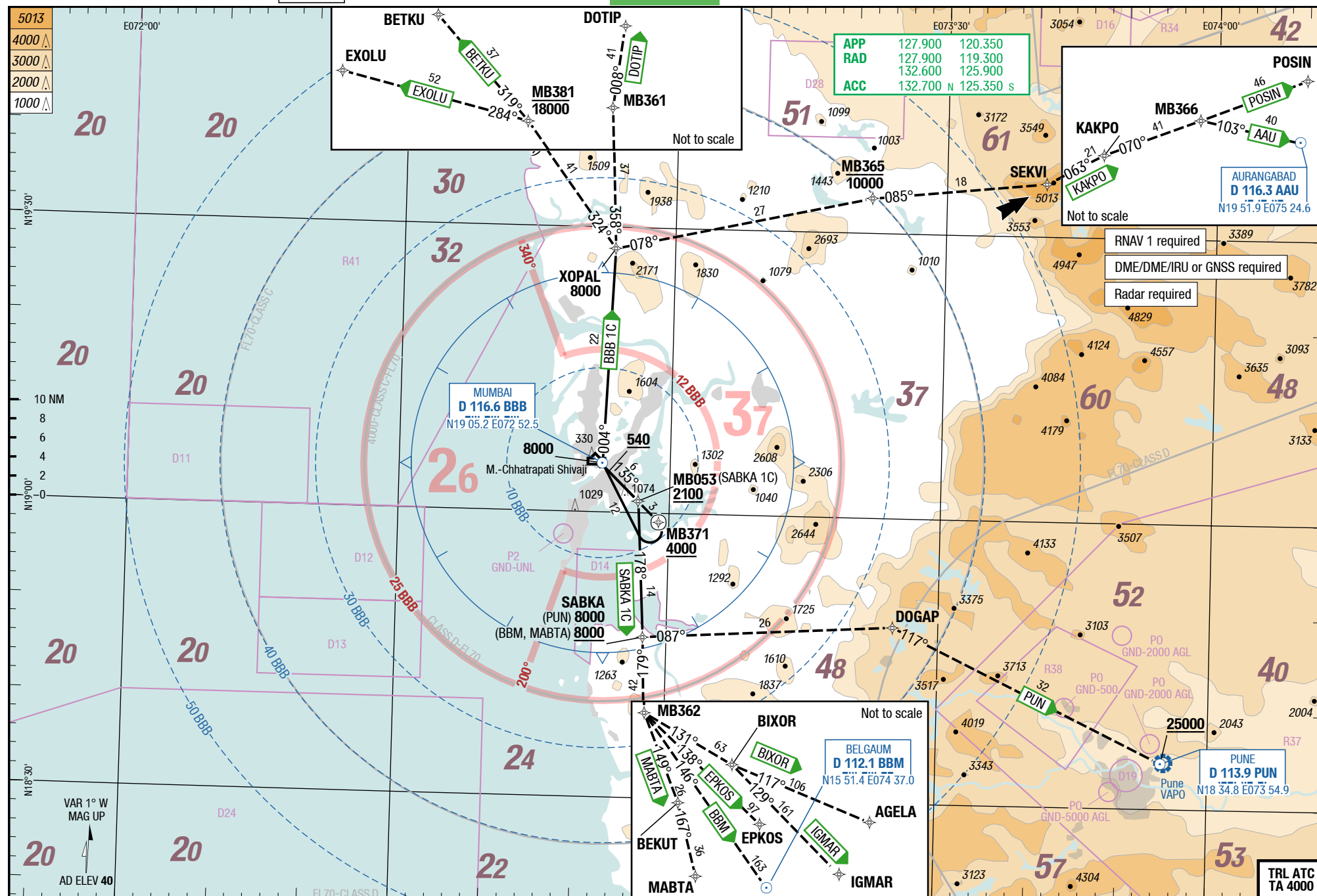
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SID

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RNAV SIDs RWY 27 (with Radar)

RNAV SIDs RWY 14 (with Radar via BBB)



Changes: ALT, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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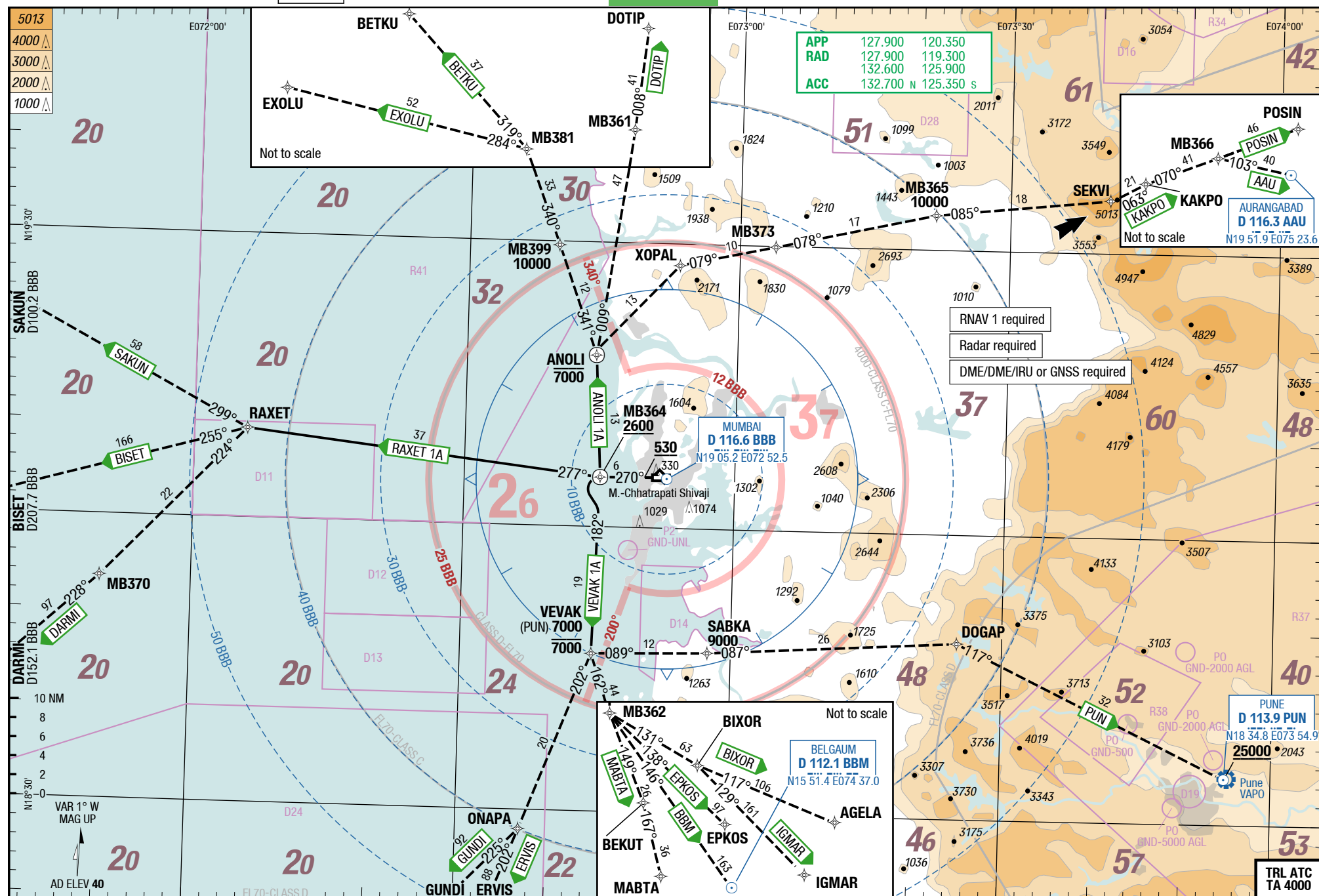
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SID

4-40 RNAV SIDs RWY 27 (with Radar)

RNAV SIDs RWY 27 (with Radar)



Changes: ALT, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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NIL

SID

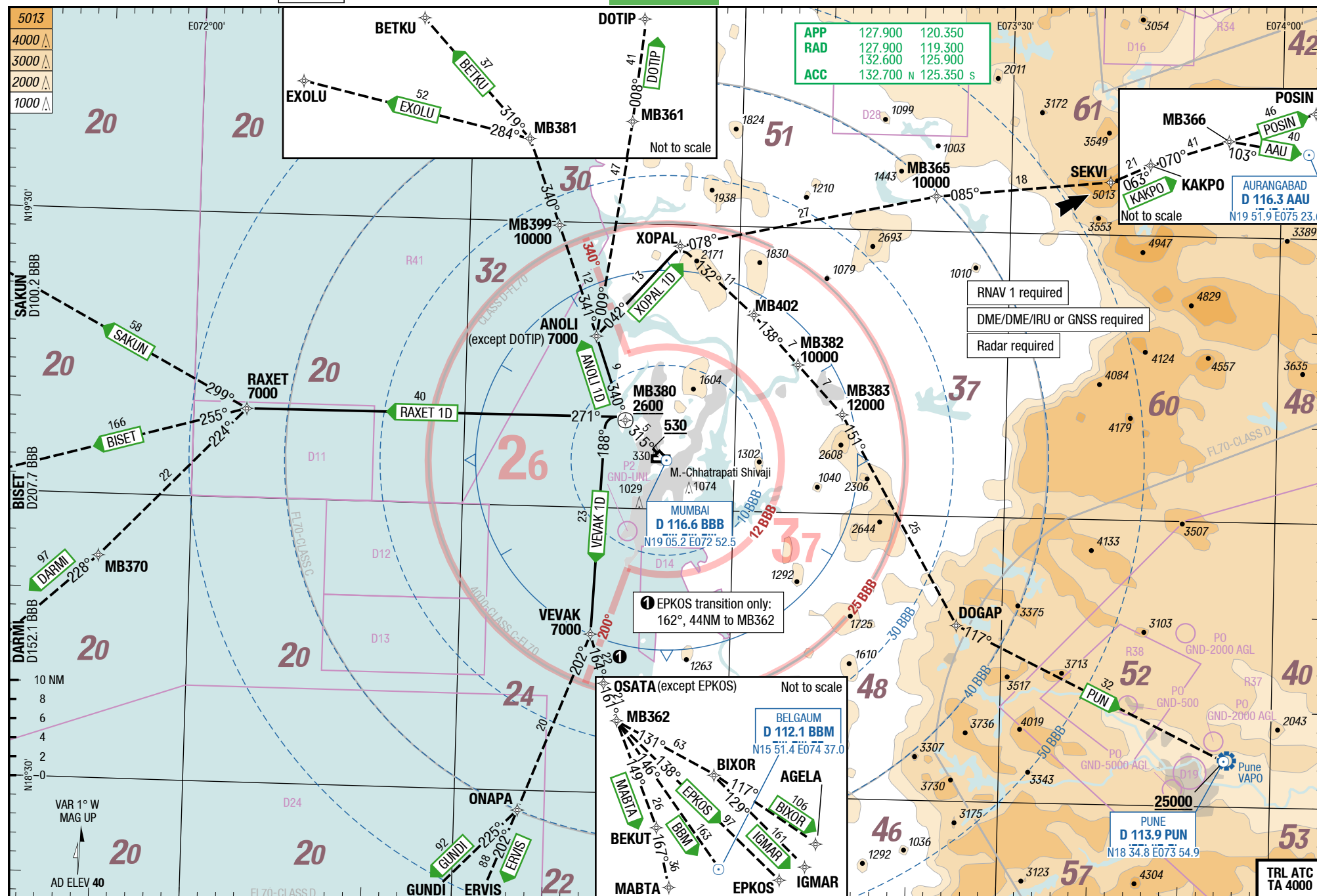
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Chhatrapati Shivaji **Mumbai** India

NIL

RNAV SIDs RWY 32 (with Radar)

4-50 RNAV SIDs RWY 32 (with Radar)



Changes: ALT, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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5-10

RNAV SIDs RWY 09 (with Radar)**ALBAP 1B / DOGAP 1B**

RWY 09 (091°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 09	
ALBAP 1B 127.900 ①	[M090 ;A520+] - <u>MB397</u> [A1000+] - ALBAP	
	TRANSITION	
	AAU ALBAP [A7000] - SEKVI - KAKPO - MB366 - AAU	
	BETKU ALBAP [A7000] - XOPAL [A9000-] - MB381 - BETKU	
	DOTIP ALBAP [A7000-] - XOPAL [A9000-] - MB361 - DOTIP	
	EXOLU ALBAP [A7000-] - XOPAL [A9000-] - MB381 - EXOLU	
	KAKPO ALBAP [A7000] - SEKVI - KAKPO	
	POSIN ALBAP [A7000] - SEKVI - KAKPO - MB366 - POSIN	
DOGAP 1B 127.900 ①	[M090 ;A520+] - <u>MB397</u> [A1000+] - DOGAP	
	TRANSITION	
	PUN DOGAP - PUN [A25000+]	

① Aircraft departing should commence turn before SC to avoid hills.

Changes: Altitudes

13-JUL-2017

BOM-VABB

5-20

RNAV SIDs RWY 09 (with Radar)**ONAGI 1B**

RWY 09 (091°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 09	
ONAGI 1B 127.900 ①	[M090 ;A520+] - <u>MB397</u> [A1000+] - ONAGI	
	TRANSITION	
	BBM ONAGI [A7000] - MB390 [A7000] - MB362 - BBM	
	BISET ONAGI [A7000] - VEVAK [A7000] - MB377 [A13000+] - ARIRA - BISET	
	BIXOR ONAGI [A7000] - MB390 [A7000] - MB362 - BIXOR - AGELA	
	DARMI ONAGI [A7000] - VEVAK [A7000] - MB377 [A13000+] - ARIRA - DARMI	
	EPKOS ONAGI [A7000] - MB390 [A7000] - MB362 - EPKOS	
	ERVIS ONAGI [A7000] - MB389 [A7000] - ERVIS	
	GUNDI ONAGI [A7000] - ONAPA - GUNDI	
	IGMAR ONAGI [A7000] - MB390 [A7000] - MB362 - BIXOR - IGMAR	
	MABTA ONAGI [A7000] - MB390 [A7000] - MB362 - BEKUT - MABTA	
	SAKUN ONAGI [A7000] - VEVAK [A7000] - MB377 [A13000+] - SAKUN	

① Aircraft departing should commence turn before SC to avoid hills.

Changes: Altitudes

13-JUL-2017

BOM-VABB

5-30

RNAV SIDs RWY 14 (with Radar)**DOGAP 1C / RAXET 1C / REVKA 1C**

RWY 14 (136°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 14	
DOGAP 1C 127.900	[M135 ;A540+] - <u>MB053</u> [A2100] - DOGAP	
	TRANSITION	
	PUN DOGAP - PUN	
RAXET 1C 127.900	[M135 ;A540+] - <u>MB053</u> [A2100+] - ONAGI	
	TRANSITION	
	ARIRA ONAGI - VEVAK [A7000-] - LAPOM - MB388 [A8000] - RAXET - BISET	
	DARMI ONAGI - VEVAK [A7000-] - LAPOM - MB388 [A8000] - RAXET - DARMI	
	SAKUN ONAGI - VEVAK [A7000-] - LAPOM - MB388 [A8000] - RAXET [A10000-] - SAKUN	
	[M135 ;A540+] - <u>MB053</u> [A2100+] - SABKA	
	TRANSITION	
	BBM SABKA - REVKA [A7000] - MB362 - BBM	
REVKA 1C 127.900	BIXOR SABKA - REVKA [A7000] - MB362 - BIXOR - AGE LA	
	EPKOS SABKA - REVKA [A7000] - MB362 - EPKOS	
	ERVIS SABKA - REVKA [A7000] - OSATA - ERVIS	
	GUNDI SABKA - REVKA [A7000] - OSATA - GUNDI	
	IGMAR SABKA - REVKA [A7000] - MB362 - BIXOR - IGMAR	
	MABTA SABKA - REVKA [A7000] - MB362 - BEKUT - MABTA	

Changes: ALT

13-JUL-2017

BOM-VABB

5-40

RNAV SIDs RWY 14 (with Radar)**VIDAG 1C**

RWY 14 (136°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 14	
VIDAG 1C 127.900	[M135 ;A540+] - <u>MB053</u> [A2100+] - VIDAG	
	TRANSITION	
	AAU VIDAG - MB398 [A10000-] - SEKVI - KAKPO - MB366 - AAU	
	BETKU VIDAG - XOPAL [A7000] - MB381 [A10000-] - BETKU	
	DOTIP VIDAG - XOPAL [A7000] - MB361 [A10000-] - DOTIP	
	EXOLU VIDAG - XOPAL [A7000] - MB381 [A10000-] - EXOLU	
	KAKPO VIDAG - MB398 [A10000-] - SEKVI - KAKPO	
	POSIN VIDAG - MB398 [A10000-] - SEKVI - KAKPO - MB366 - POSIN	

Changes: ALT

13-JUL-2017

BOM-VABB**5-50****RNAV SIDs RWY 14 (with Radar via BBB)****SIDPT****BBB 1C / SABKA 1C**

RWY 14 (140°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 14	
BBB 1C 127.900	[M135 ;A540+] - <u>MB371</u> [A4000+ ;R] - BBB [A8000] - XOPAL	
	TRANSITION	
	AAU XOPAL [A8000] - MB365 [A10000-] - SEKVI - KAKPO - MB366 - AAU	
	BETKU XOPAL [A8000] - MB381 [A18000-] - BETKU	
	DOTIP XOPAL [A8000] - MB361 - DOTIP	
	EXOLU XOPAL [A8000] - MB381 [A18000-] - EXOLU	
	KAKPO XOPAL [A8000] - MB365 [A10000-] - SEKVI - KAKPO	
	POSIN XOPAL [A8000] - MB365 [A10000-] - SEKVI - KAKPO - MB366 - POSIN	
SABKA 1C 127.900	[M135 ;A540+] - MB053 [A2100+] - SABKA	
	TRANSITION	
	BBM SABKA [A8000+] - MB362 - BBM	
	BIXOR SABKA - MB362 - BIXOR - AGELA	
	EPKOS SABKA - MB362 - EPKOS	
	IGMAR SABKA - MB362 - BIXOR - IGMAR	
	MABTA SABKA [A8000+] - MB362 - BEKUT - MABTA	
	PUN SABKA [A8000] - DOGAP - PUN [A25000+]	

Changes: Altitudes

13-JUL-2017

BOM-VABB

5-60

RNAV SIDs RWY 27 (with Radar)

ANOLI 1A / RAXET 1A RWY 27 (271°)		
After passing 800, contact APP.		
DESIGNATOR	ROUTING	ALTITUDES
	Runway 27	
ANOLI 1A 127.900	[M270 ;A530+] - <u>MB364</u> [A2600+] - <u>ANOLI</u>	
	TRANSITION	
	AAU <u>ANOLI</u> [A7000-] - XOPAL - MB373 - MB365 [A10000] - SEKVI - KAKPO - MB366 - AAU	
	BETKU <u>ANOLI</u> [A7000-] - MB399 [A10000] - MB381 - BETKU	
	DOTIP <u>ANOLI</u> [A7000-] - MB361 - DOTIP	
	EXOLU <u>ANOLI</u> [A7000-] - MB399 [A10000] - MB381 - EXOLU	
	KAKPO <u>ANOLI</u> [A7000-] - XOPAL - MB373 - MB365 [A10000] - SEKVI - KAKPO	
	POSIN <u>ANOLI</u> [A7000-] - XOPAL - MB373 - MB365 [A10000] - SEKVI - KAKPO - MB366 - POSIN	
RAXET 1A 127.900	[M270 ;A530+] - <u>MB364</u> [A2600+] - RAXET	
	TRANSITION	
	BISET RAXET - BISET	
	DARMI RAXET - MB370 - DARMI	
	SAKUN RAXET - SAKUN	

Changes: Altitudes

13-JUL-2017

BOM-VABB

5-70

RNAV SIDs RWY 27 (with Radar)**VEVAK 1A**

RWY 27 (271°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 27	
VEVAK 1A 127.900	[M270 ;A530+] - <u>MB364</u> [A2600+] - VEVAK	
	TRANSITION	
	BBM VEVAK [A7000-] - MB362 - BBM	
	BIXOR VEVAK [A7000-] - MB362 - BIXOR - AGELA	
	EPKOS VEVAK [A7000-] - MB362 - EPKOS	
	ERVIS VEVAK [A7000-] - ONAPA - ERVIS	
	GUNDI VEVAK [A7000-] - ONAPA - GUNDI	
	IGMAR VEVAK [A7000-] - MB362 - BIXOR - IGMAR	
	MABTA VEVAK [A7000-] - MB362 - BEKUT - MABTA	
	PUN VEVAK [A7000] - SABKA [A9000] - DOGAP - PUN [A25000+]	

Changes: Altitudes

**LSY Standard (unitopww)**

13-JUL-2017

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5-80

RNAV SIDs RWY 32 (with Radar)**SIDPT****ANOLI 1D / RAXET 1D / VEVAK 1D**

RWY 32 (316°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 32	
ANOLI 1D 127.900	[M315 ;A530+] - <u>MB380</u> [A2600+] - ANOLI	
	TRANSITION	
	BETKU ANOLI [A7000] - MB399 [A10000] - MB381 - BETKU	
	DOTIP ANOLI - MB361 - DOTIP	
	EXOLU ANOLI [A7000] - MB399 [A10000] - MB381 - EXOLU	
RAXET 1D 127.900	[M315 ;A530+] - <u>MB380</u> [A2600+] - RAXET	
	TRANSITION	
	BISET RAXET [A7000] - BISET	
	DARMI RAXET [A7000] - MB370 - DARMI	
	SAKUN RAXET [A7000] - SAKUN	
VEVAK 1D 127.900	[M315 ;A530+] - <u>MB380</u> [A2600+] - VEVAK	
	TRANSITION	
	BBM VEVAK [A7000] - OSATA - MB362 - BBM	
	BIXOR VEVAK [A7000] - OSATA - MB362 - BIXOR - AGE LA	
	EPKOS VEVAK [A7000] - MB362 - EPKOS	
	ERVIS VEVAK [A7000] - ONAPA - ERVIS	
	GUNDI VEVAK [A7000] - ONAPA - GUNDI	
	IGMAR VEVAK [A7000] - OSATA - MB362 - BIXOR - IGMAR	
	MABTA VEVAK [A7000] - OSATA - MB362 - BEKUT - MABTA	

Changes: Altitudes

13-JUL-2017

BOM-VABB

5-90

RNAV SIDs RWY 32 (with Radar)**XOPAL 1D**

RWY 32 (316°)

After passing 800, contact APP.

DESIGNATOR	ROUTING	ALTITUDES
	Runway 32	
XOPAL 1D 127.900	[M315 ;A530+] - <u>MB380</u> [A2600+] - ANOLI [A7000] - XOPAL	
	TRANSITION	
	AAU XOPAL - MB365 [A10000] - SEKVI - KAKPO - MB366 - AAU	
	KAKPO XOPAL - MB365 [A10000] - SEKVI - KAKPO	
	POSIN XOPAL - MB365 [A10000] - SEKVI - KAKPO - MB366 - POSIN	
	PUN XOPAL - MB402 - MB382 [A10000] - MB383 [A12000] - DOGAP - PUN [A25000+]	

Changes: Altitudes

BOM-VABB

India **Mumbai** Chhatrapati Shivaji

RNAV STARs RWY 14

6-10

RNAV STARs RWY 09

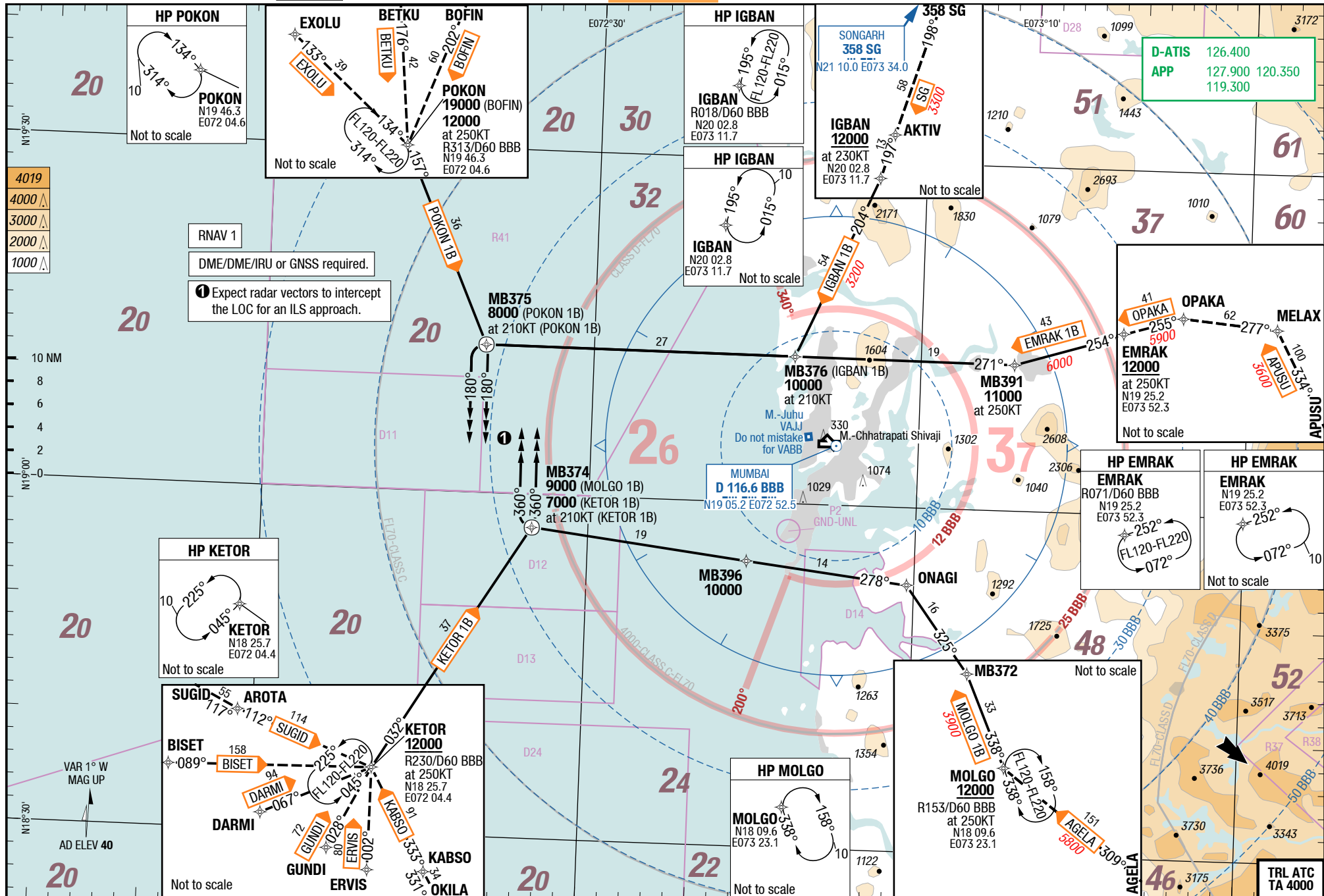
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STAR

Chhatrapati Shivaji **Mumbai** India

RNAV STARs RWY 14

RNAV STARs RWY 09



Changes: Track, ASP, OBST, AD ELEV

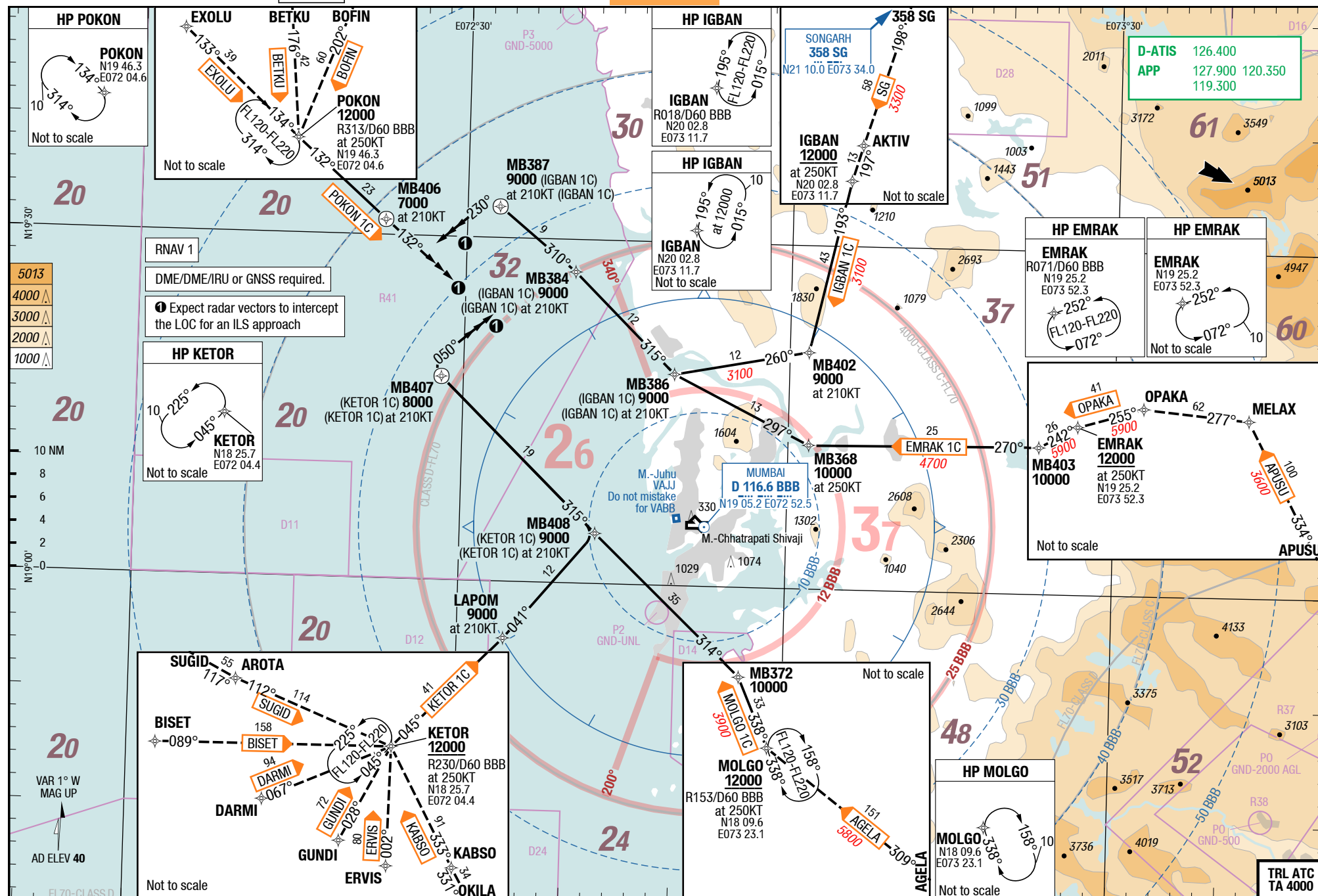
✓ **LSY Standard (unitopww)**

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6-20

RNAV STARs RWY 14

RNAV STARs RWY 14



13-JUL-2017
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RNAV STARs RWY 32

6-30

RNAV STARs RWY 27

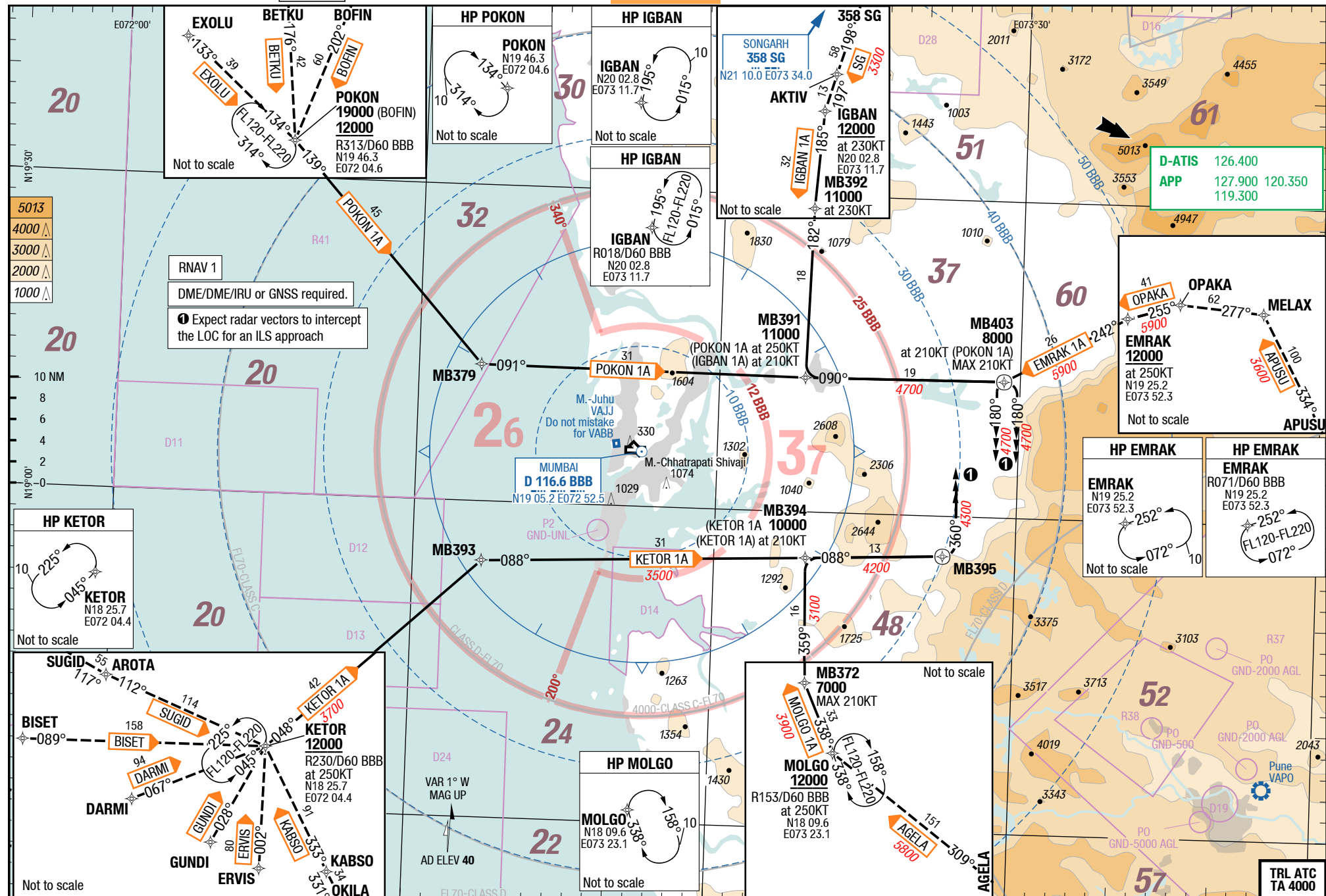
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STAR

Chhatrapati Shivaji Mumbai India

RNAV STARs RWY 32

RNAV STARs RWY 27



Changes: Track, MTCA, ASP, OBST, SUAs, AD ELEV

✓ LSY Standard (unitopww)

13-JUL-2017

India **Mumbai** Chhatrapati Shivaji

STAR

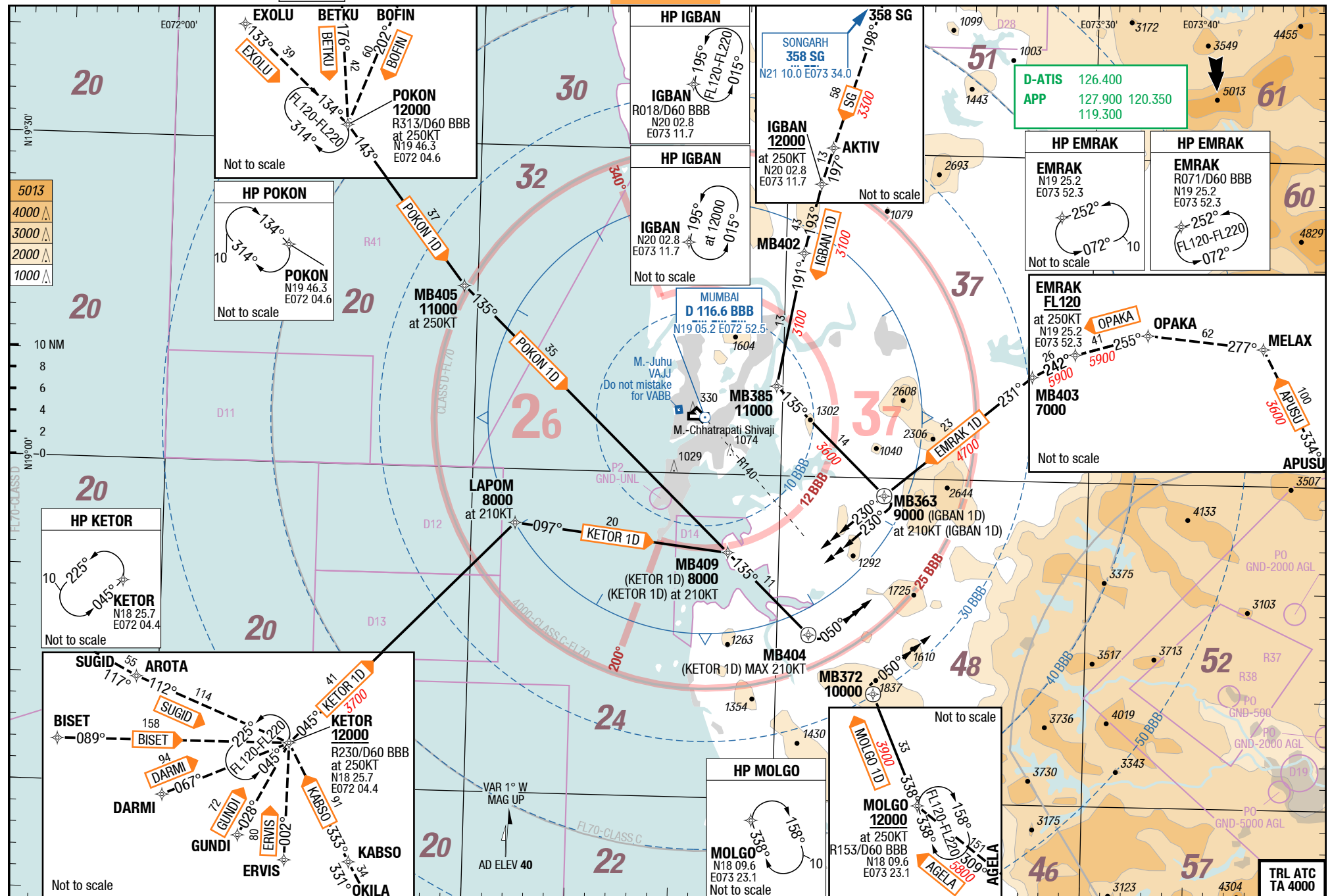
STAR

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RNAV STARs RWY 32

6-40

RNAV STARs RWY 32



Changes: Track, ASP, SUAs, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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ARRIVALS SOUTH

ARRIVALS NORTH

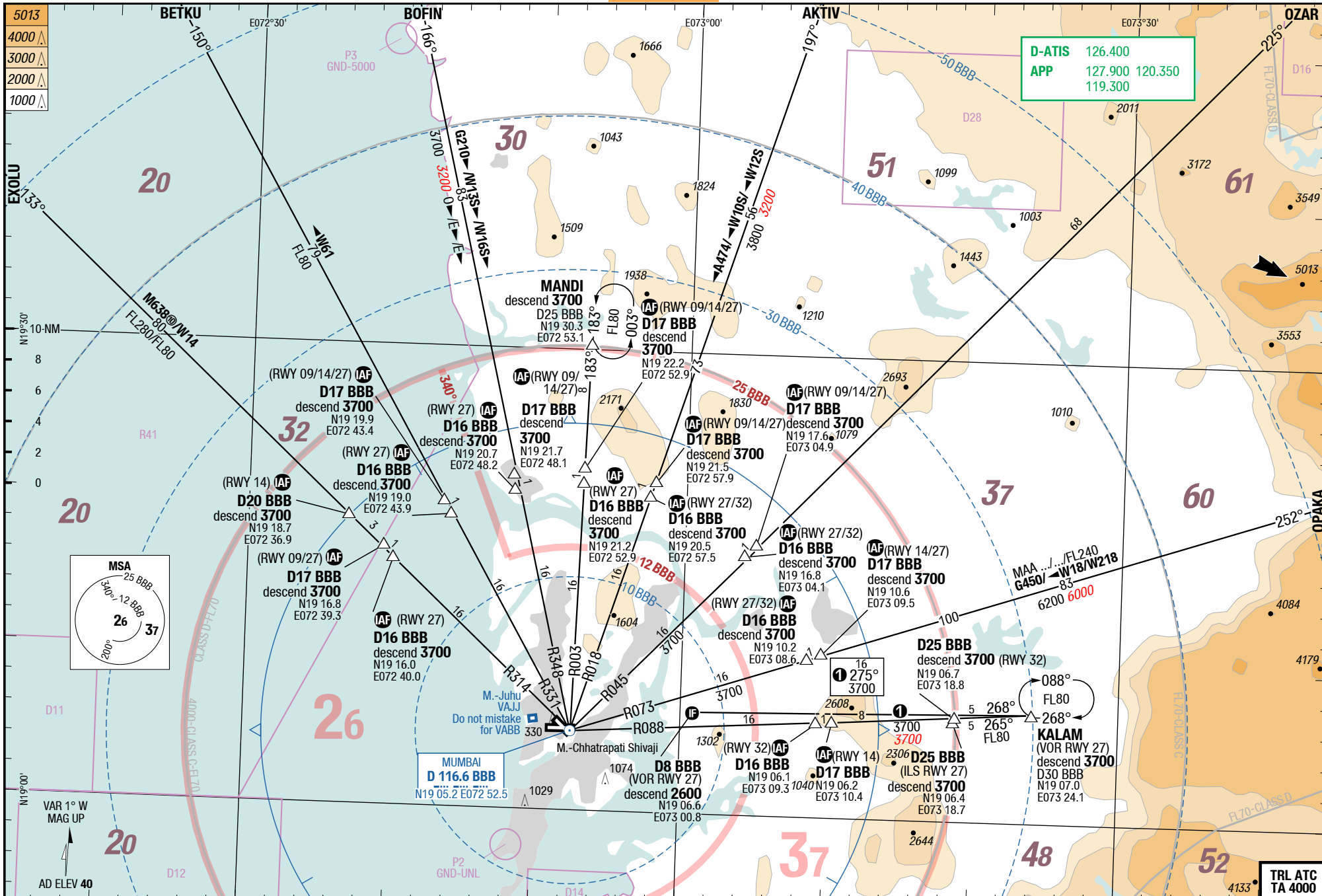
STAR

STAR

Chhatrapati Shivaji **Mumbai** India

ARRIVALS SOUTH

ARRIVALS NORTH



Changes: ASP, OBST, AD ELEV

✓ **LSY Standard (unitopww)**

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ARRIVALS SOUTH

ARRIVALS SOUTH

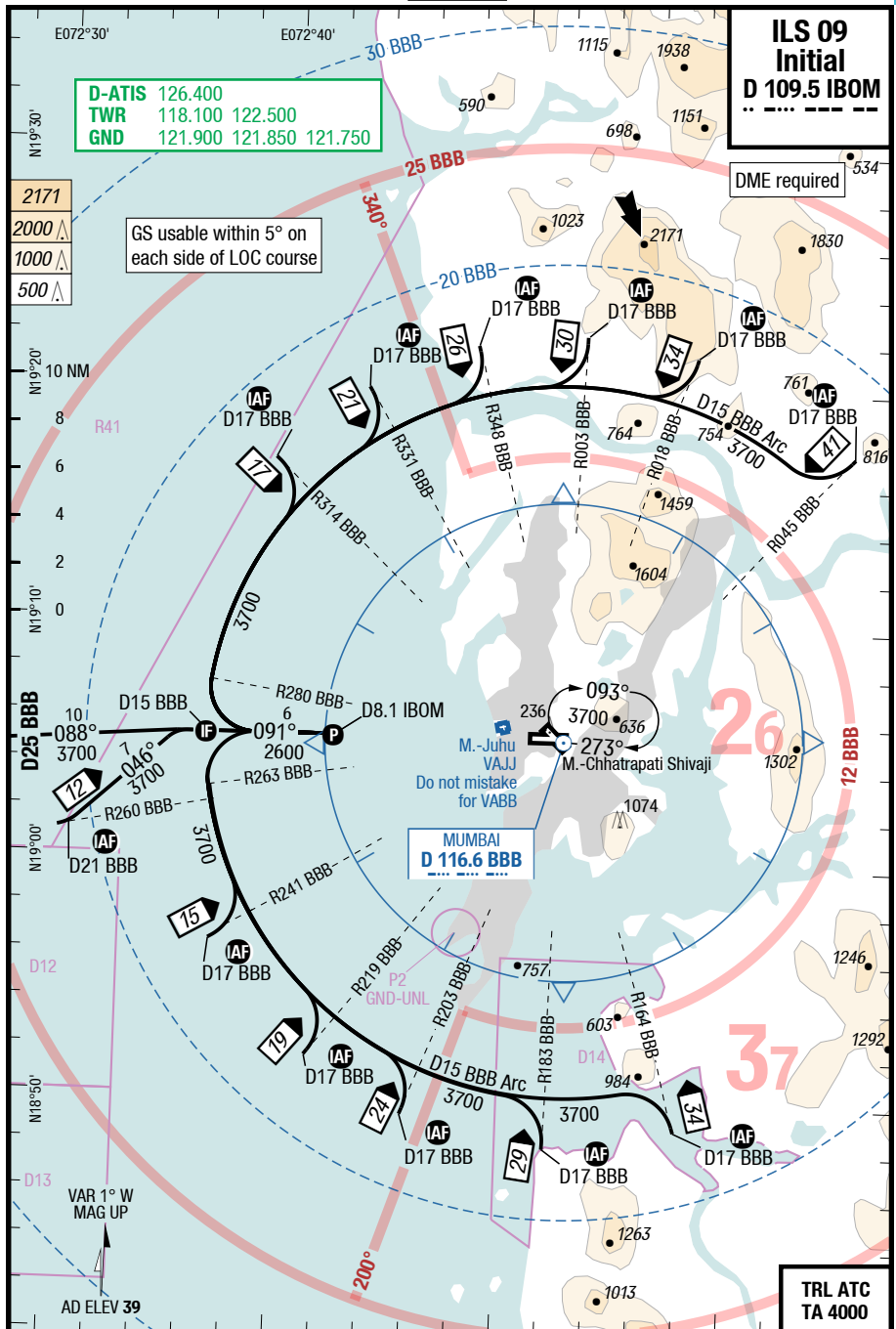


18-MAY-2017

IAC

7-10

ILS 09 Initial



Changes: Nil

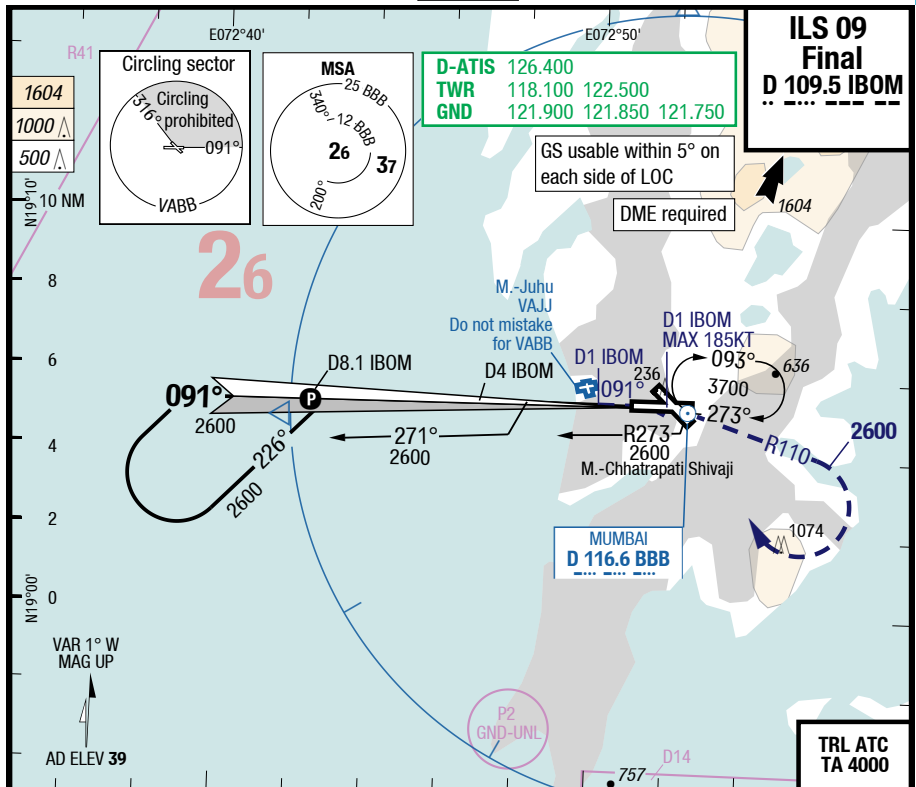
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✓ **LSY Standard (unitopww)**

BOM-VABB

7-20

ILS 09 Final



LOC 3.03°
D IBOM

8.1	7	6	5	3	2
2600	2250	1930	1610	970	650

09

HL-S

THR 16 (1hPa) / TDZ --- (---%) +0.1%

60 HL
30 HL

3048 x 60

540

83.0°

D8.1 IBOM

D4

D1 IBOM BBB

091°
at D1 after IBOM
RT (MAX 185KT)
HDG 120°
intercept R110 BBB
at 2600 RT direct BBB
climb **3700**

GS	120	140	160
D4 IBOM	640	750	860
-MAPT	1:31	1:18	1:08

DIST to displaced THR

5 3.8 0.8 0

09	Cat 1 DME 1)	LOC DME	SRA		Circling 2)
C	ft - m/km ft	260 - 800 270	430 - 1.6 440	650 - 2.4 660	1440 - 2.4V 1480
D	ft - m/km ft	260 - 800 270	430 - 1.6 440	650 - 2.4 660	1660 - 3.6V 1700

1) With EVS 550m
2) BTW RWY 27 and RWY 14 only. See sketch for details

Effective 25-MAY-2017

18-MAY-2017

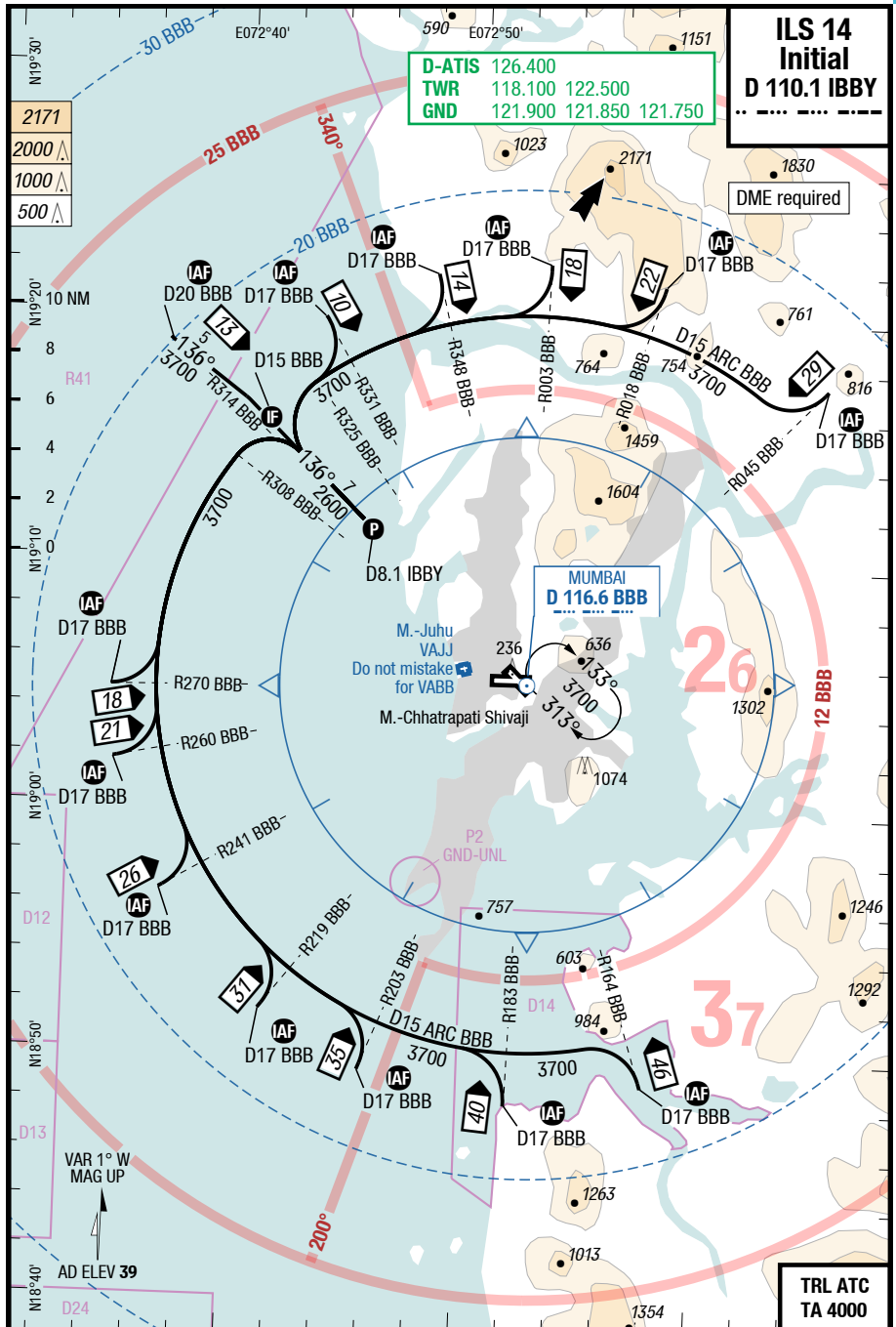
India Mumbai Chhatrapati Shivaji

IAC

BOM-VABB

7-30

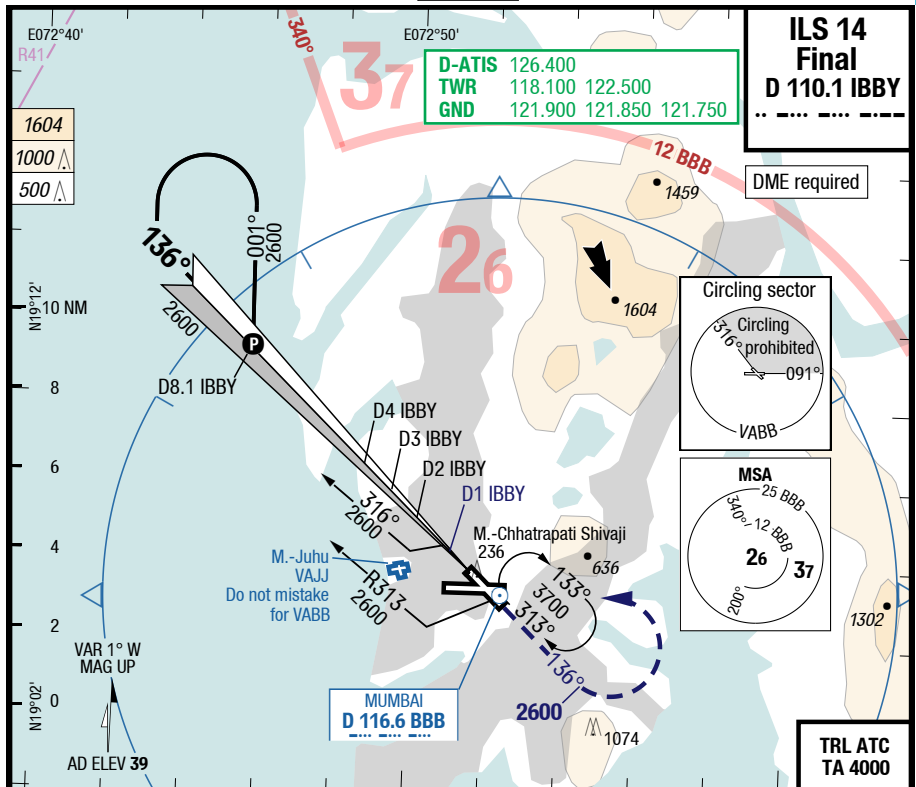
ILS 14 Initial



BOM-VABB

7-40

ILS 14 Final



LOC 3.00° D IBBY		8.1	7	6	5	3	2	14		83.0°	60 HL	15 HL
		2600	2260	1940	1620	990	670	HL-P1	THR 40 (1hPa) / TDZ 39 (---%)	-0.2%		
		D8.1 IBBY D4 D3 D2 D1 IBBY						BBB				
		2600 136° 1310 990 MDA 50						136° at 2600 LT direct BBB climb 3700				
DIST to displaced THR		5 3.8 2.8 1.8 0.8 0										
14	Cat 1 DME ¹⁾	LOC DME		SRA				Circling ²⁾				
C	ft - m/km ft	400 - 1.1 440		540 - 1.7 580		C 500 - 2.2 680		1440 - 2.4V 1480				
D	ft - m/km ft	400 - 1.1 440		540 - 1.7 580		C 500 - 2.2 680		1660 - 3.6V 1700				

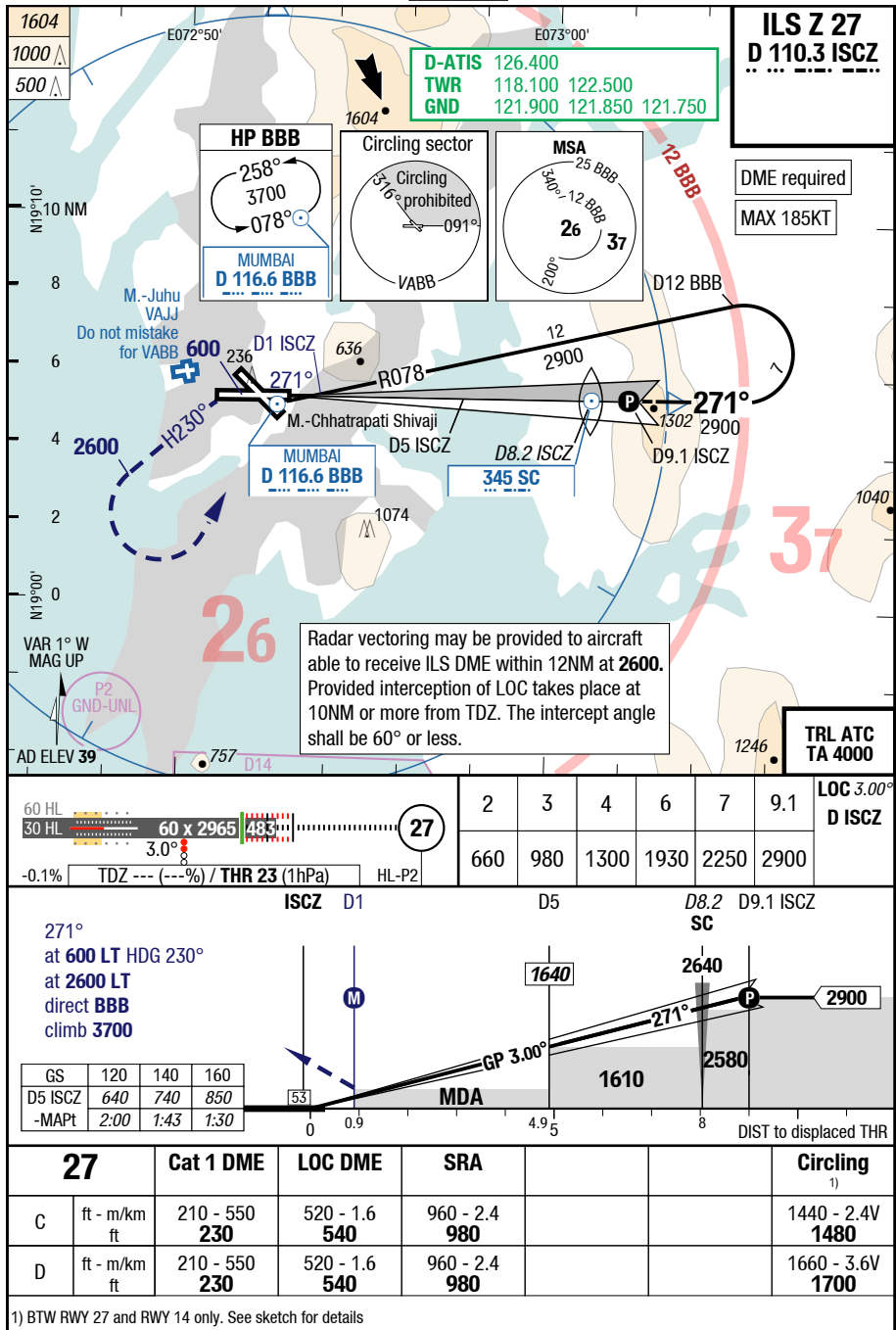
1) With EVS 750m
2) BTW RWY 27 and RWY 14 only. See sketch for details

Changes: APL, MIN

BOM-VABB

7-50

ILS Z 27

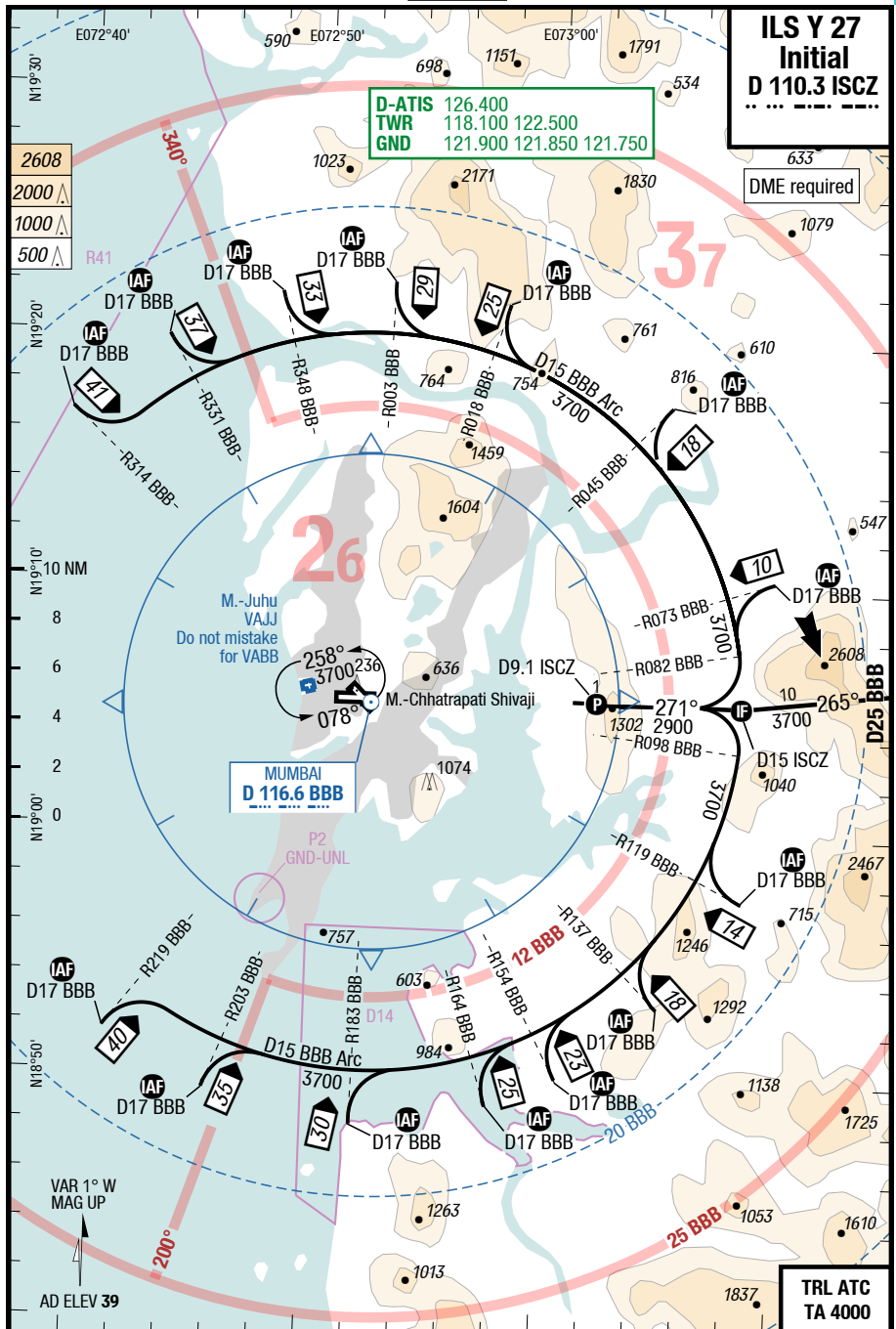


18-MAY-2017

IAC

7-70

ILS Y 27 Initial



Changes: Nil

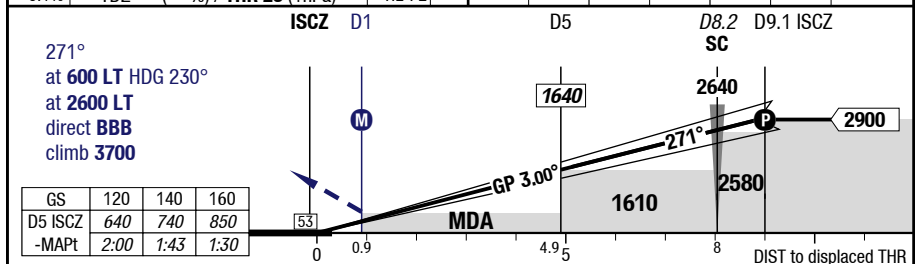
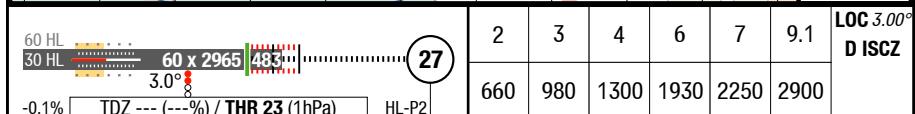
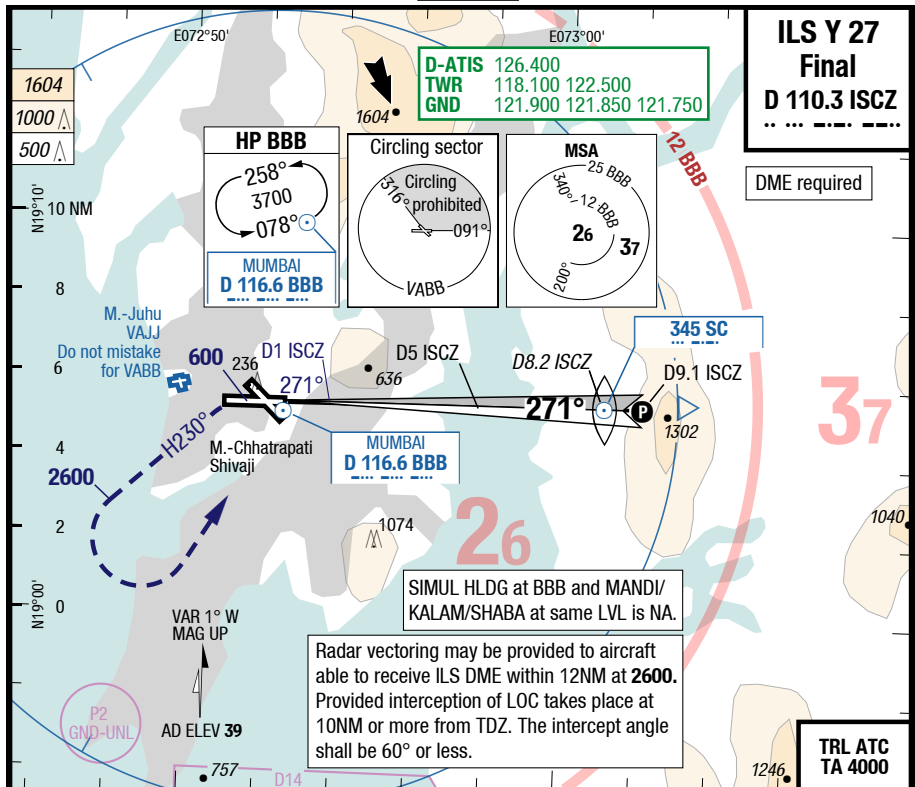
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✓ **LSY Standard (unitopww)**

BOM-VABB

7-80

ILS Y 27 Final



27		Cat 1 DME	LOC DME	SRA		Circling 1)
C	ft - m/km ft	210 - 550 230	520 - 1.6 540	960 - 2.4 980		1440 - 2.4V 1480
D	ft - m/km ft	210 - 550 230	520 - 1.6 540	960 - 2.4 980		1660 - 3.6V 1700

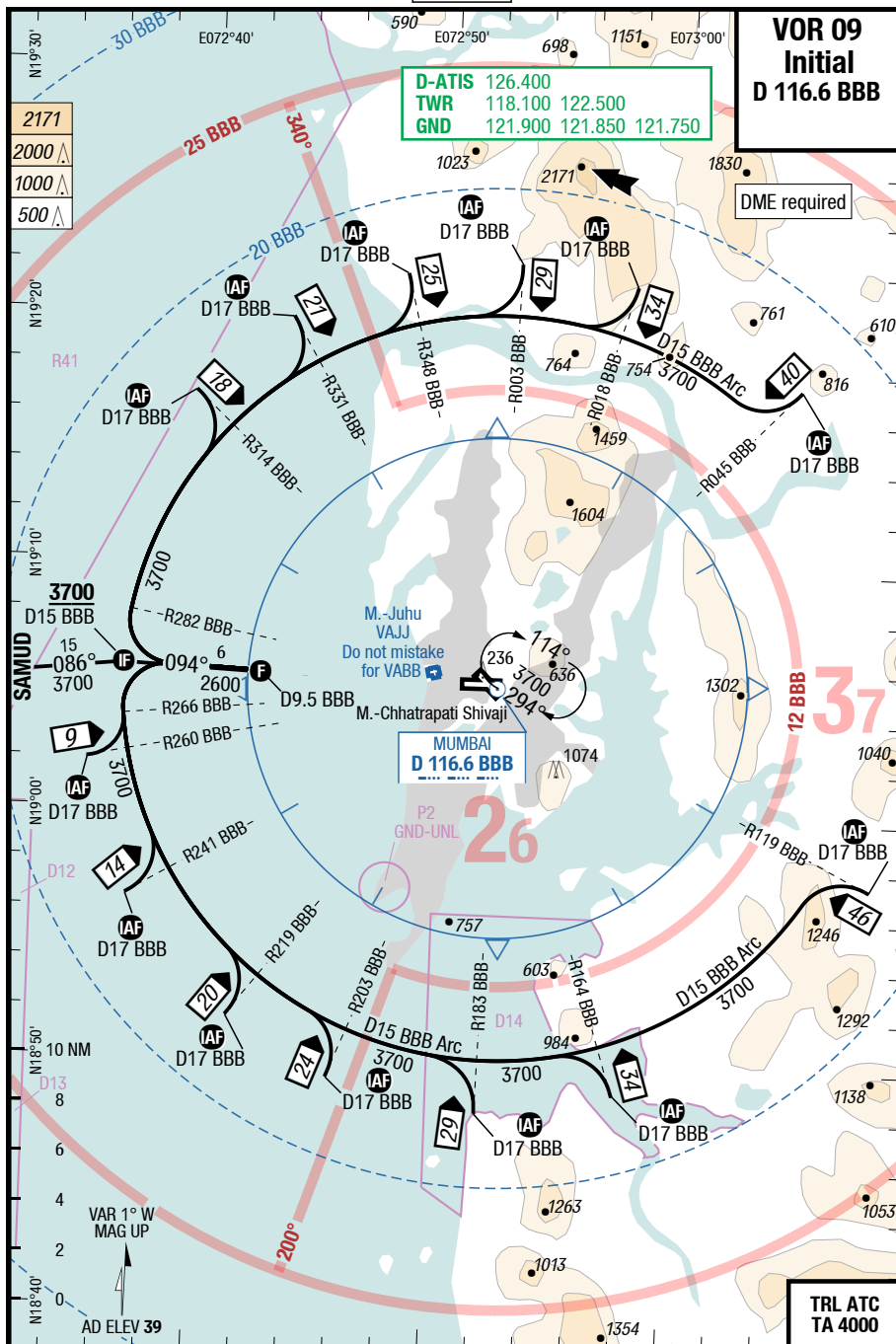
1) BTW RWY 27 and RWY 14 only. See sketch for details

18-MAY-2017

IAC

7-90

VOR 09 Initial



Changes: Nil

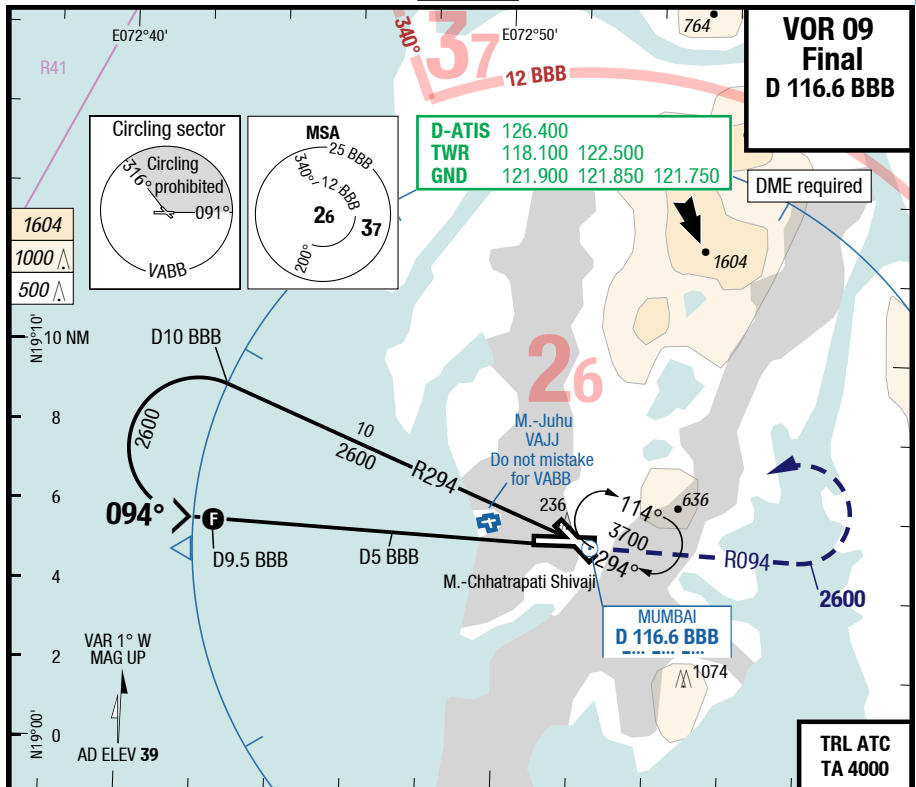
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✓ **LSY Standard (unitopww)**

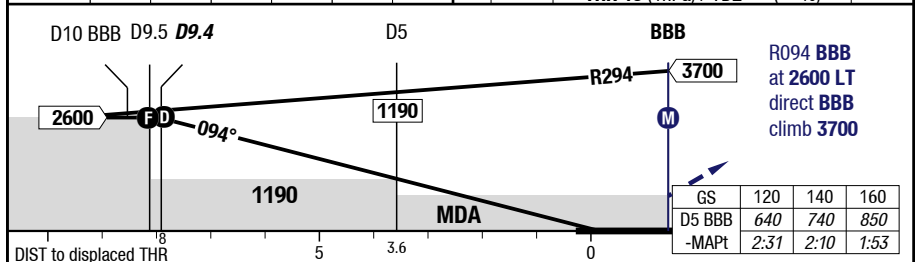
BOM-VABB

7-100

VOR 09 Final



3.00° D BBB 094° RWY 091°	9.4	9	8	7	6	4	09	HL-S	140 3048 x 60 540 83.0° THR 16 (1hPa) / TDZ --- (%) +0.1%	60 HL 30 HL
	2600	2470	2150	1830	1510	880				



09	VOR DME						Circling ¹⁾
C	ft - m/km ft	610 - 2.4 620					1440 - 2.4V 1480
D	ft - m/km ft	610 - 2.4 620					1660 - 3.6V 1700

1) BTW RWY 27 and RWY 14 only. See sketch for details

Changes: APL, MIN

18-MAY-2017

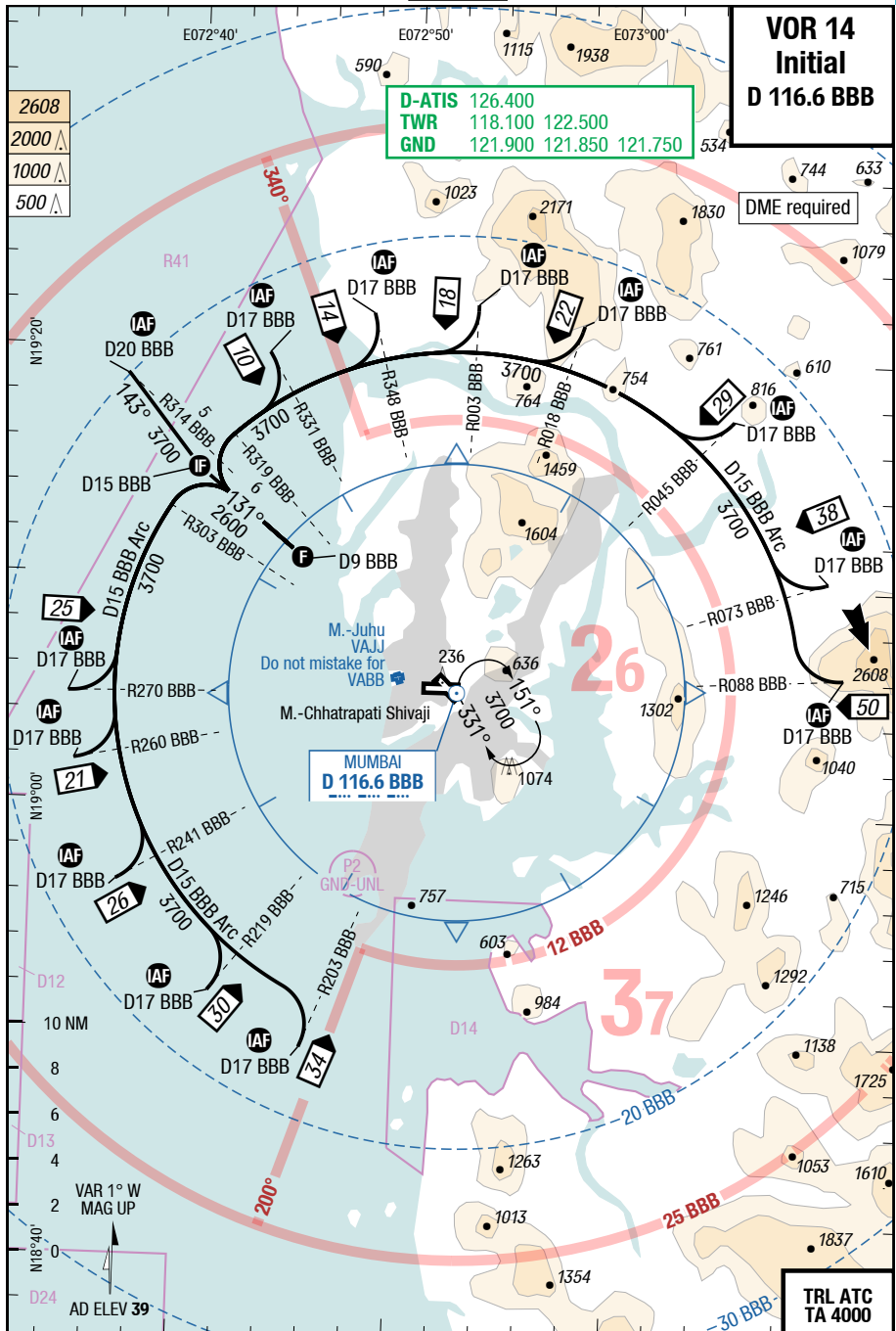
India **Mumbai** Chhatrapati Shivaji

IAC

BOM-VABB

7-110

VOR 14 Init



Changes: Nil

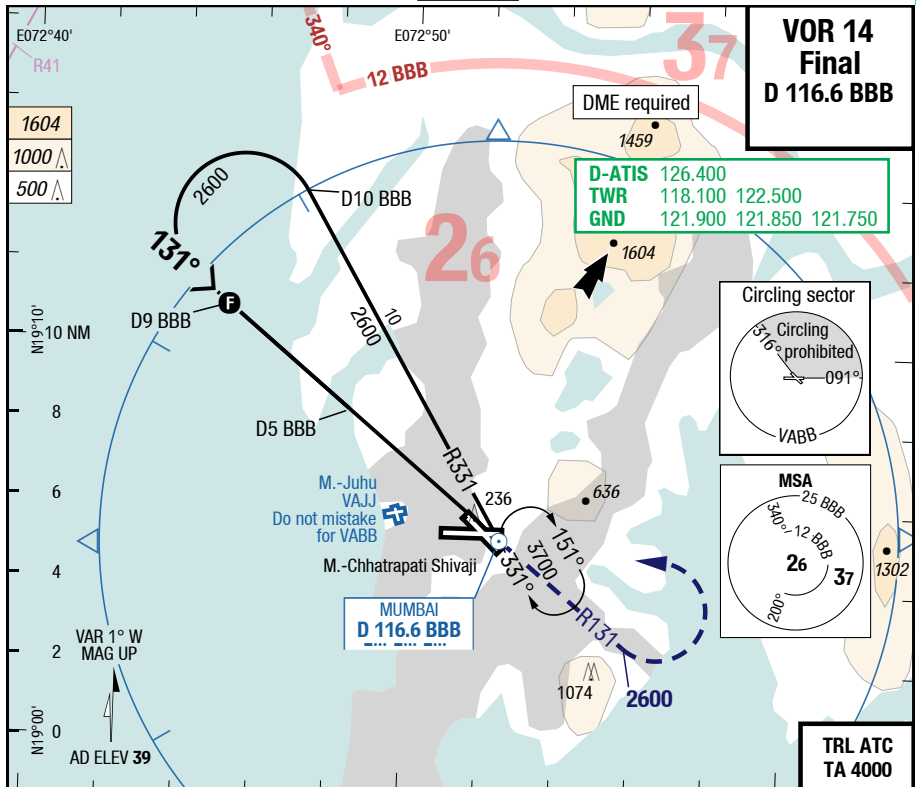
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✓ **LSY Standard (unitopww)**

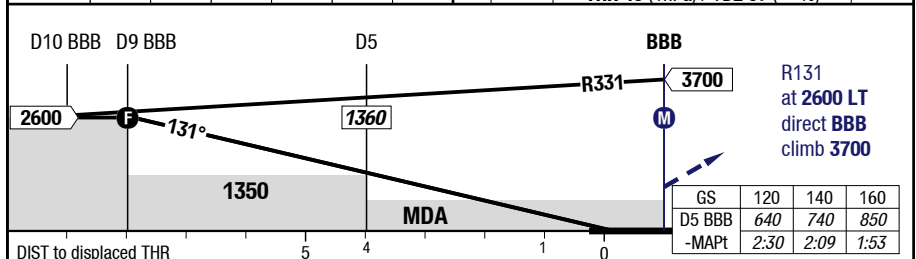
BOM-VABB

7-120

VOR 14 Final



3.00°	9	8	7	6	5	4	14	83.0°	60 HL
D BBB									
131°									
RWY 136°	2600	2320	2000	1680	1360	1050			15 HL
							HL-P1	THR 40 (1hPa) / TDZ 39 (---%)	-0.2%



14	VOR DME					Circling 1)
C	ft - m/km ft	690 - 2.5 730				1440 - 2.5V 1480
D	ft - m/km ft	690 - 2.5 730				1660 - 3.6V 1700

1) BTW RWY 27 and RWY 14 only. See sketch for details

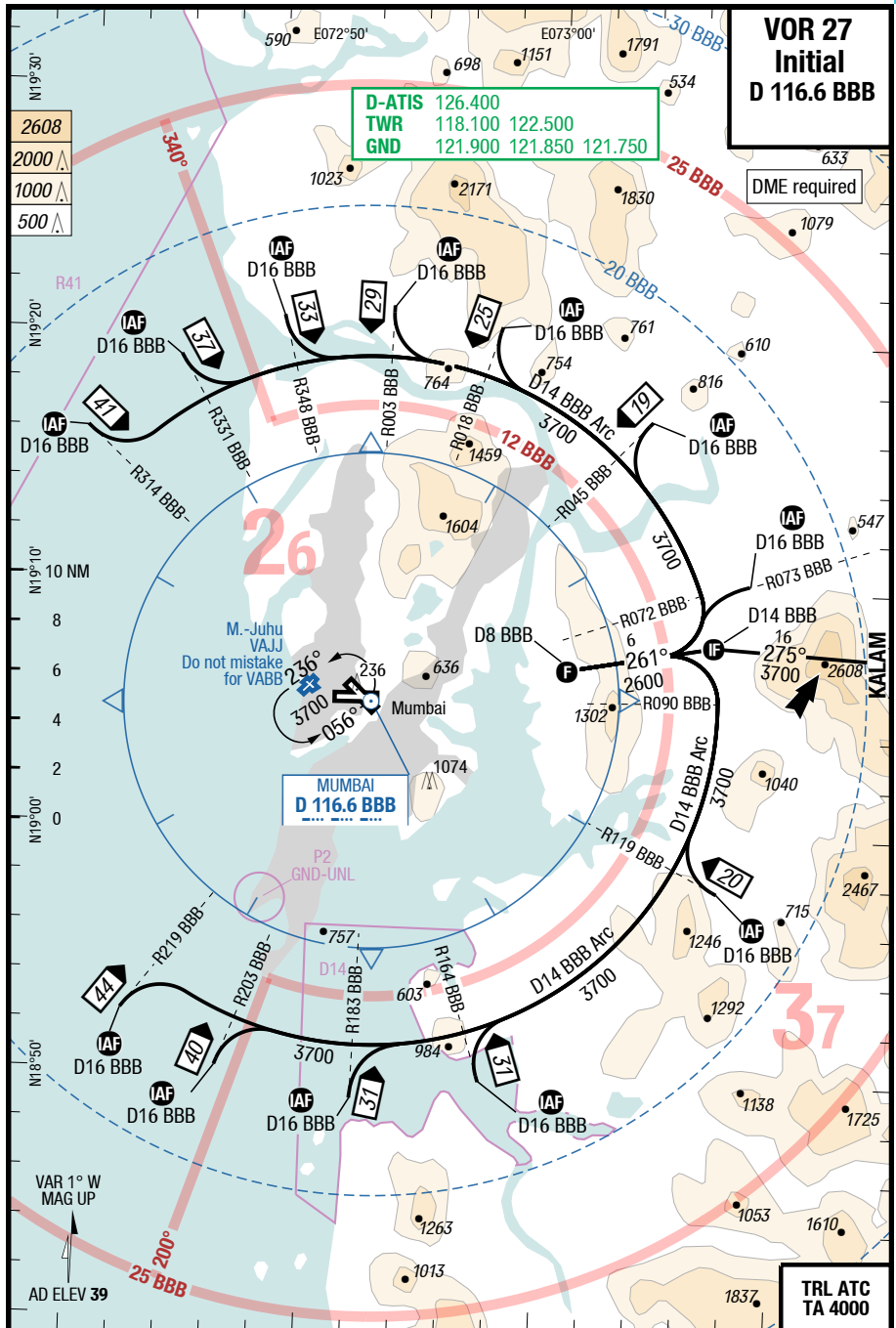
Changes: APL, MIN

18-MAY-2017

IAC

7-130

VOR 27 Initial



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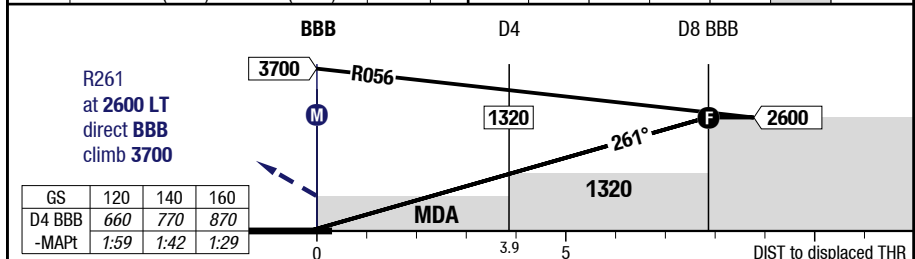
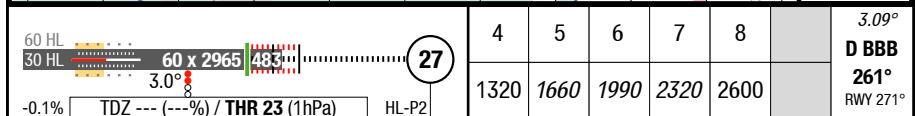
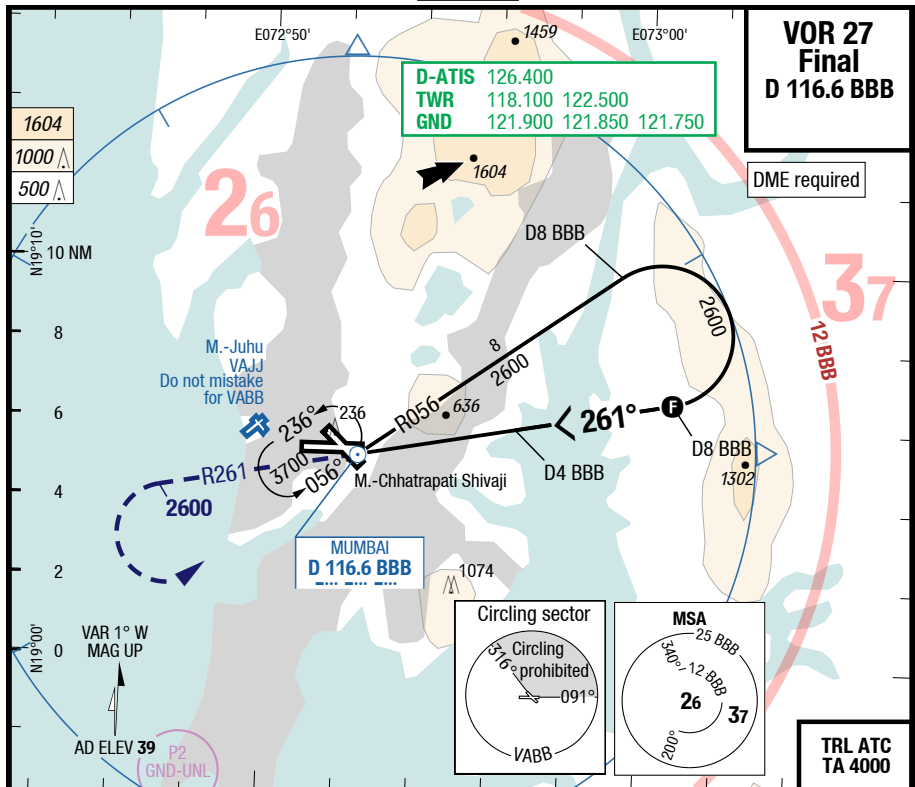
Changes: Nil

✓ **LSY Standard (unitopww)**

BOM-VABB

7-140

VOR 27 Final



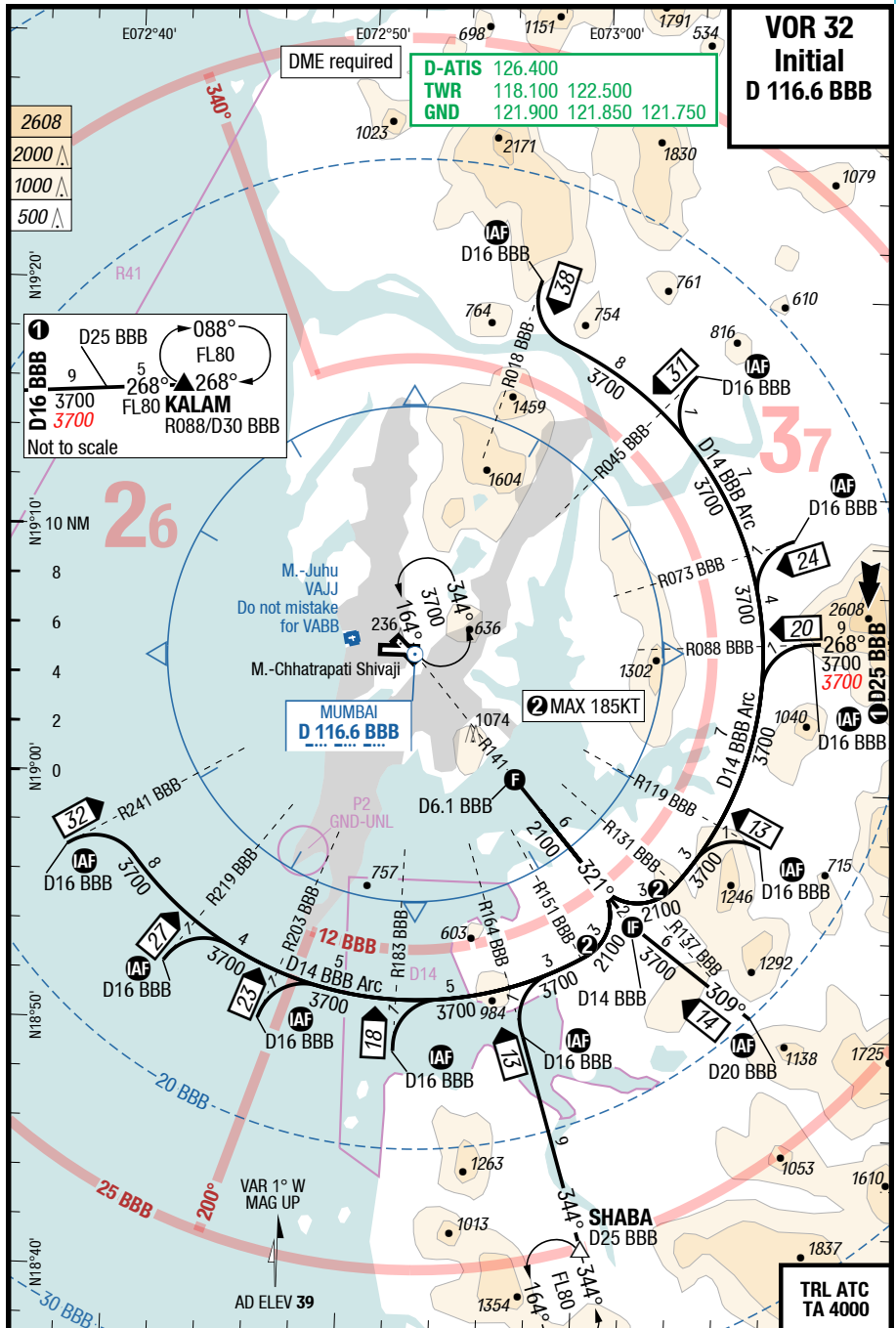
27		VOR DME					Circling¹⁾
C	ft - m/km ft	1000 - 3.8 1020					1440 - 3.8V 1480
D	ft - m/km ft	1000 - 3.8 1020					1660 - 3.8V 1700

1) BTW RWY 27 and RWY 14 only. See sketch for details

BOM-VABB

7-150

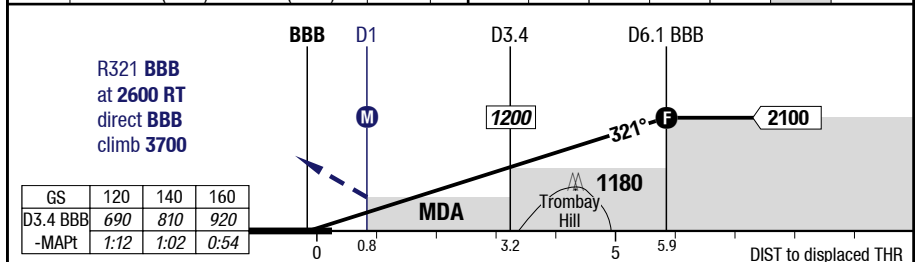
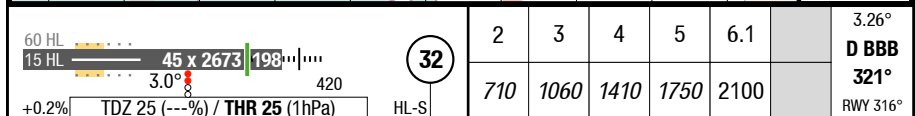
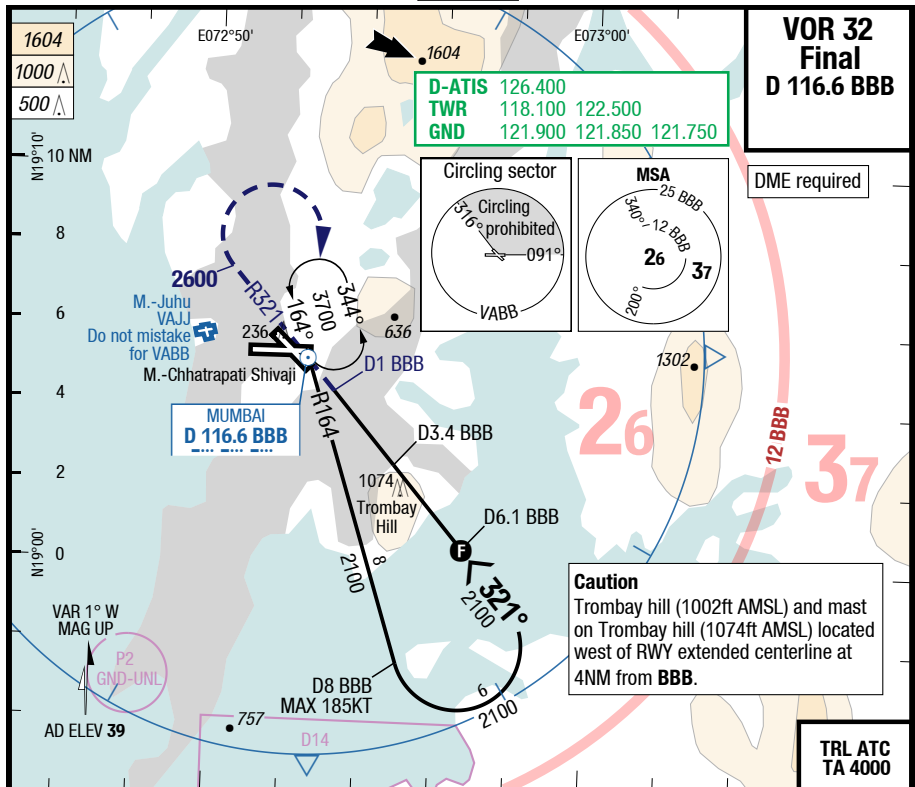
VOR 32 Initial



BOM-VABB

7-160

VOR 32 Final



32	VOR DME	VOR DME wo D3.4 BBB				Circling ¹⁾
C	ft - m/km ft	630 - 2.4 650	1310 - 5.0 1330			1440 - 5.0V 1480
D	ft - m/km ft	630 - 2.4 650	1310 - 5.0 1330			1660 - 5.0V 1700

1) BTW RWY 27 and RWY 14 only. See sketch for details

Changes: APL, MIN

13-JUL-2017
BOM-VABB

India **Mumbai** Chhatrapati Shivaji


MRC

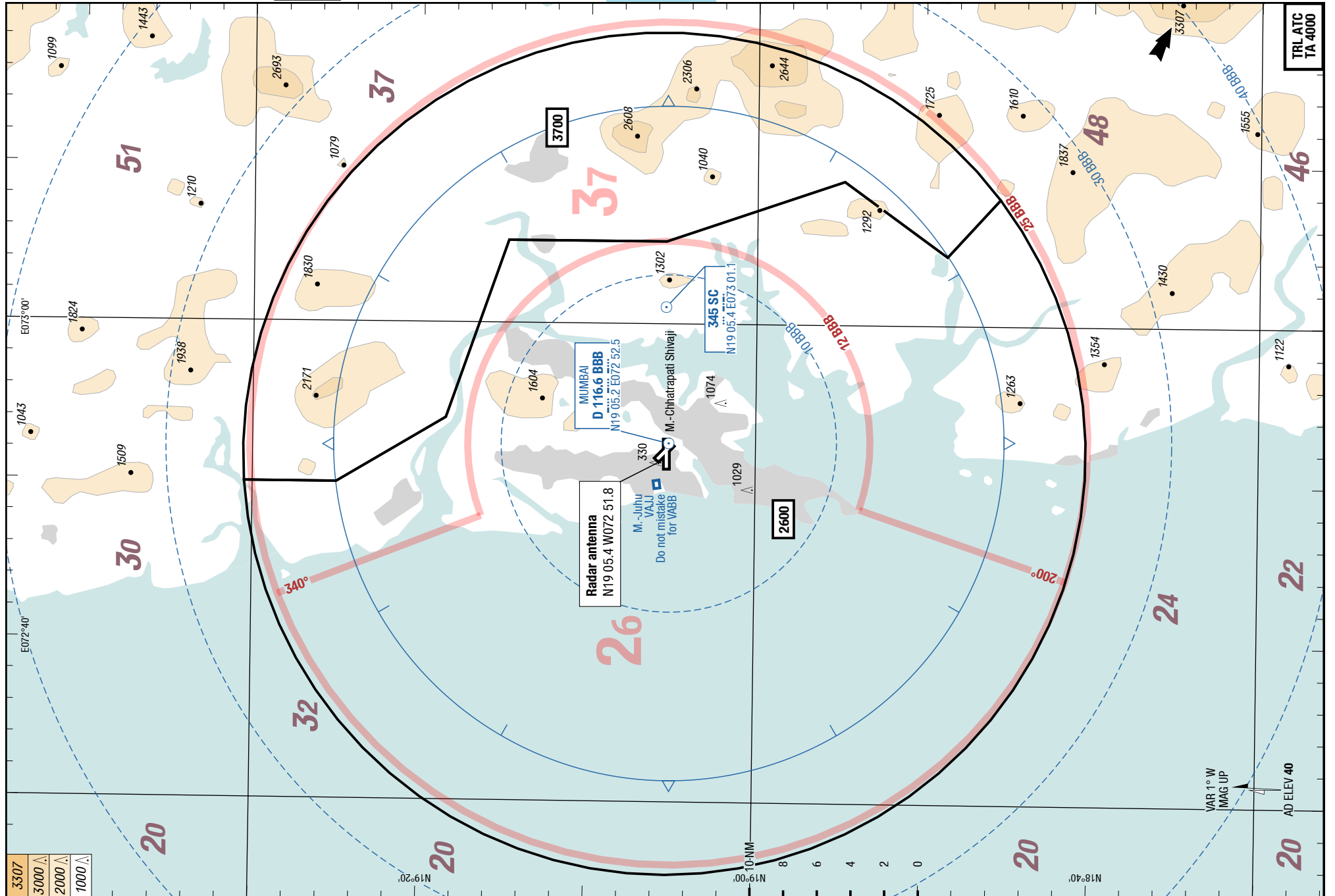
MRC

MRC

Chhatrapati Shivaji **Mumbai** India


MRC

8-10



Changes: MGA, OBST, AD ELEV

✓ LSY Standard (unitopww)