

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
ALBAS (IAF)	DRIFY (FB)	304.55 / 8.17	2000	LPV: DA LNAV/VNAV: DA LNAV: RW29R
SLI VORTAC (IAF)	DRIFY (FB)	219.41 / 8.17	2000	
DRIFY (IF)	ZILBA (FB)	294.57 / 4.35	2000	(DO NOT EXCEED 185 KIAS UNTIL ZANAN) CLIMB TO 3000 DIRECT ZANAN AND ON TRACK 221.02 TO INISH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.
ZILBA (FAF)	RW29R (MAP) (FO)	294.49 / 5.13		
RW29R (MAP)	367 MSL	294.49		
367 MSL	ZANAN (FB)			ADDITIONAL FLIGHT DATA: HOLD W, RT, 071.00 INBOUND. CHART FAS OBST: 425 TANK 334637N/1181847W DISTANCE TO THLD FROM 270 HAT: 0.61 NM. CHART VDP AT 1.34 NM TO RW29R* *LNAV ONLY. WAAS CHANNEL # 56425 REFERENCE PATH ID: W29A CHART CIRCLING ICON. LTP HAE: -6.4 M
ZANAN	INISH (FO)	221.02 / 8.99	3000	

1. PT \_\_\_\_\_ SIDE OF COURSE \_\_\_\_\_ OUTBOUND \_\_\_\_\_ FT WITHIN \_\_\_\_\_ MILES OF \_\_\_\_\_ (IAF)
2. PROFILE STARTS AT DRIFY
3. FAC: 294.49 FAF: ZILBA DIST FAF TO MAP: 5.13 THLD: 5.13
4. MIN. ALT: DRIFY 2000, ZILBA 2000
5. DIST TO THLD FROM OM: \_\_\_\_\_ MM: \_\_\_\_\_ IM: \_\_\_\_\_ 150 HAT: \_\_\_\_\_ 100 HAT: \_\_\_\_\_ GS ANT: \_\_\_\_\_
6. MIN GS INCPT: 2000 GS ALT AT: ZILBA 2000 OM: \_\_\_\_\_ MM: \_\_\_\_\_ IM: \_\_\_\_\_
7. GS ANGLE: 3.40 TCH: 51.6 34:1 IS CLEAR
8. MSA FROM: RW29R 7700

MAG VAR: 14E EPOCH YEAR: 1970

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A			STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	367	1/2	270	367	1/2	270	367	1/2	270						
LNAV/VNAV DA	739	1 1/2	642	739	1 1/2	642	739	1 1/2	642						
LNAV MDA	680	1/2	583	680	1/2	583	680	1 1/4	583						
CIRCLING	680	1	577	680	1	577	680	1 3/4	577			NA			

NOTES:  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 3C (38F) OR ABOVE 54C (130F).  
CHART NOTE: CIRCLING NA SW OF RWY 11R-29L.  
CHART NOTE: DME/DME RNP-0.3 NA.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALBAS ON V25 SOUTHEAST BOUND.  
(CONTINUED ON PAGE 2)

@ NA WHEN CONTROL TOWER CLOSED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICES.

QUALITY  
25  
CHECKED

CITY AND STATE TORRANCE, CA	ELEVATION: 103 TDZE: 97 AIRPORT NAME: ZAMPERINI FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29R, AMDT 1 15 SEPTEMBER 2016	SUP: AMDT: ORIG-B DATED 05/29/2014
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**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**NOTES, (CONT.):**

**CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SLI VORTAC AIRWAY RADIALS 202 CW 272.**

**CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).**

**CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM.**

**CHART NOTE: FOR INOPERATIVE ALS WHEN USING LOS ANGELES INTL ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 2 SM, AND LNAV CAT C VISIBILITY TO 1 3/4 SM.**

**CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LOS ANGELES INTL ALTIMETER SETTING.**

**CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE, USE LOS ANGELES INTL SETTING: INCREASE LPV DA TO 391 FEET AND LNAV/VNAV DA TO 763 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY AND LNAV CAT C VISIBILITY 1/8 SM.**



CITY AND STATE <b>TORRANCE, CA</b>	ELEVATION: 103 TDZE: 97 AIRPORT NAME: <b>ZAMPERINI FIELD</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 29R, AMDT 1</b> 15 SEPTEMBER 2016	SUP:
				AMDT: <b>ORIG-B</b>
				DATED: <b>05/29/2014</b>

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTOA
RUNWAY	RW29R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	334801.5675N
LTP/FTP LONGITUDE	1182003.0115W
LTP/FTP ELLIPSOIDAL HEIGHT	-00064
FPAP LATITUDE	334857.0655N
FPAP LONGITUDE	1182126.7610W
THRESHOLD CROSSING HEIGHT (TCH)	00051.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.40
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1392
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER FAB9DBBE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00296
FPAP ORTHOMETRIC HEIGHT	+00296



CITY AND STATE TORRANCE, CA	ELEVATION: 103	TDZE: 97	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29R, AMDT 1 15 SEPTEMBER 2016	SUP:
	AIRPORT NAME: ZAMPERINI FIELD				AMDT: ORIG-B
					DATED: 05/29/2014

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

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ARINC SUMMARY - KTOA

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALBAS	010	ALBAS	IF	FB										E A
ALBAS	020	DRIFY	TF	FB	1.0	304.6						AA 02000		EE B
SLI	010	SLI	IF	FB										V A
SLI	020	DRIFY	TF	FB	1.0	219.4						AA 02000		EE B
	010	DRIFY	IF	FB								AA 02000		E I
	020	ZILBA	TF	FB	1.0	294.6				RW29R		AA 02000		E F
	030	RW29R	TF	FO	0.3	294.5		3.40				AT 00149		GY M
	040		CA	FB		294.5						AA 00367		M
	050	ZANAN	DF	FB									AB 185	E
	060	INISH	TF	FO	1.0	221.0						AA 03000		EY
	070	INISH	HM	FO		071.0			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
SLI	N334659.87	W1180317.12
ALBAS	N333558.68	W1180440.16
INISH	N334514.08	W1183228.76
DRIFY	N334206.73	W1181109.17
ZANAN	N335024.31	W1182338.41
ZILBA	N334449.78	W1181514.02

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW29R	N334801.57	W1182003.01	00097	51

QUALITY  
25  
CHECKED

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	AIRPORT NAME: <b>ZAMPERINI FIELD</b>	<b>RNAV</b>	<b>RNAV (GPS) RWY 29R, AMDT 1</b>	AMDT: <b>ORIG-B</b>
			15 SEPTEMBER 2016	DATED: <b>05/29/2014</b>