

# FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE ILS STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks 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 feet RVR.

<u><b>AIRPORT ID</b></u> OAK	<u><b>PROCEDURE NAME</b></u> ILS OR LOC RWY 28R	<u><b>ORIGINAL/AMENDMENT</b></u> 38	<u><b>CITY</b></u> OAKLAND	<u><b>STATE</b></u> CA
<u><b>AIRPORT ELEVATION</b></u> 9	<u><b>TDZE</b></u> 28R 7 28L 9	<u><b>SUPERSEDED</b></u> ILS OR LOC/DME RWY 28R	<u><b>ORIGINAL/AMENDMENT</b></u> 37A	<u><b>DATED</b></u> 10/13/2016
<u><b>FACILITY</b></u> I-OAK	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 12 JUNE 2025	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>MAG VAR</b></u> 14E
				<u><b>EPOCH YEAR</b></u> 2015
			<u><b>CANCEL/SUSPEND</b></u>	

## TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
BBUBB	IAF	NAGVY/OAK VOR/DME 14.96 DME		TF	FB	1.00	230.50	4.88	4200
FFIST	IAF	NAGVY/OAK VOR/DME 14.96 DME		TF	FB	1.00	261.95	11.69	4200
MYSHN	IAF	CYMBL		TF	FB	1.00	291.71	4.04	5300
CYMBL		NAGVY/OAK VOR/DME 14.96 DME		TF	FB	1.00	299.06	5.69	4200
NAGVY/OAK VOR/DME 14.96 DME		SKYLN/OAK VOR/DME 13.41 DME					278.18 (I-OAK)	1.55	3800
SKYLN/OAK VOR/DME 13.41 DME		GROVE/OAK VOR/DME 11.86 DME					278.18 (I-OAK)	1.55	3400
GROVE/OAK VOR/DME 11.86 DME	IF	URZAF/OAK VOR/DME 9.55 DME					278.18 (I-OAK)	2.31	2700
URZAF/OAK VOR/DME 9.55 DME		NIXDE/OAK VOR/DME 7.54 DME					278.18 (I-OAK)	2.01	2100
NIXDE/OAK VOR/DME 7.54 DME		CUVSA/OAK VOR/DME 5.39 DME					278.18 (I-OAK)	2.15	1500

## MISSED APPROACH

### MAP:

ILS: DA  
LOC: 4.53 NM AFTER CUVSA/OAK VOR/DME 5.39 DME OR AT OAK VOR/DME 0.90 DME

### MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1900 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 340.00 AND SGD VORTAC R-165 TO REBAS/SGD 14.31 DME AND HOLD.

### ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 4000 DIRECT SAU VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

QUALITY  
31  
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT NAGVY/OAK VOR/DME 14.96 DME					
3.	FAC:	278.18	FAF:	CUVSA/OAK VOR/DME 5.39 DME	DIST FAF TO MAP:	4.53
4.	MIN ALT:	NAGVY/OAK VOR/DME 14.96 DME 4200, SKYLN/OAK VOR/DME 13.41 DME 3800, GROVE/OAK VOR/DME 11.86 DME 3400, URZAF/OAK VOR/DME 9.55 DME 2700, NIXDE/OAK VOR/DME 7.54 DME 2100, CUVSA/OAK VOR/DME 5.39 DME 1500				
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	988
6.	MIN GS INCPT:	1500	GS ALT AT PFAF:	CUVSA/OAK VOR/DME 5.39 DME 1500	OM:	MM:
7.	GS ANGLE:	3.00	34:1:	20:1:	TCH:	52.8
8.	MSA FROM:	OAK VOR/DME 170-350 3800, 350-170 5100				

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM BBUBB OR FFIST OR MYSHN.

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: DME FROM OAK VOR/DME. SIMULTANEOUS RECEPTION OF I-OAK AND OAK DME REQUIRED.  
CHART NOTE: \* RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.  
CHART SPEED ICON IN PLANVIEW AT BBUBB: MAX 200 KIAS.  
CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 200 KIAS.  
CHART SPEED ICON IN PLANVIEW AT GROVE: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE SAU VOR/DME, RT, 215.21 INBOUND.  
CHART IN PLANVIEW: SAU VOR/DME.  
HOLD S, RT, 345.00 INBOUND.  
CHART FAS OBST: 174 ANTENNA (06-109322) 374213N/1220826W.  
CHART AT OR ABOVE 6000 AT BBUBB.  
CHART AT OR BELOW 9000 AND AT OR ABOVE 7000 AT FFIST.  
CHART AT OR ABOVE 6200 AT MYSHN.  
CHART AT OR ABOVE 5300 AT CYMBL.  
CHART CIRCLING ICON.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 1400-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 28R*	207	2400	200	207	2400	200	207	2400	200	207	2400	200			
S-LOC 28R	440	2400	433	440	2400	433	440	4000	433	440	4000	433			
SIDESTEP 28L	440	1	431	440	1	431	440	1 1/2	431	440	2	431			
CIRCLING	560	1	551	560	1	551	660	1 3/4	651	1400	3	1391			

QUALITY  
16  
CHECKED

CHANGES - REASONS

1. AIRPORT NAME CHANGED FROM METROPOLITAN OAKLAND INTL TO SAN FRANCISCO BAY OAKLAND INTL - NAME CHANGED PER AIRNAV UPDATE.
2. PROCEDURE NAME CHANGED FROM "ILS OR LOC/DME RWY 28R" TO "ILS OR LOC RWY 28R" - NAME CHANGED TO MEET CURRENT CRITERIA AND "DME" MOVED TO EQUIPMENT REQUIREMENTS NOTE - IAW FAAO 8260.19J, PARA 8-6-8.
3. TERMINAL ROUTES: BBUBB TO NAGVY DISTANCE CHANGED FROM "4.87 NM" TO "4.88 NM" - FIX NAGVY RELOCATED TO BE ON OAK LOCALIZER.
4. TERMINAL ROUTES: ADDED INITIAL STEPDOWN NAGVY TO SKYLN - PER ATC REQUEST.
5. TERMINAL ROUTES: ADDED INITIAL STEPDOWN SKYLN TO GROVE - PER ATC REQUEST.
6. TERMINAL ROUTES: CHANGED INTERMEDIATE FIX FROM "NAGVY" TO "GROVE" - PER ATC REQUEST.
7. TERMINAL ROUTES: ADDED INITIAL FFIST TO NAGVY - PER ATC REQUEST.
8. TERMINAL ROUTES: ADDED INITIAL MYSHN TO CYMBL - PER ATC REQUEST.
9. TERMINAL ROUTES: INITIAL CYMBL TO NAGVY COURSE CHANGED FROM "299.10" TO "299.06" - FIX NAGVY RELOCATED TO BE TO BE ON OAK LOCALIZER.
10. MISSED APPROACH INSTRUCTIONS: REMOVED "OR AS ASSIGNED BY ATC" - PER FPT REQUEST.
11. PROFILE LINE 4: CHANGED FROM "NAGVY 4200, GROVE 3400, URZAF 2700, NIXDE 2100, CUVSA 1500" TO "NAGVY/OAK VOR/DME 14.96 DME 4200, SKYLN/OAK VOR/DME 13.41 DME 3800, GROVE/OAK VOR/DME 11.86 DME 3400, URZAF/OAK VOR/DME 9.55 DME 2700, NIXDE/OAK VOR/DME 7.54 DME 2100, CUVSA/OAK VOR/DME 5.39 DME 1500" - ADDED SDF SKYLN PER ATC AND IAW FAAO 8260.19J, PARA 8-6-7.
12. PROFILE LINE 5: CHANGED DIST TO THLD FROM GS ANT FROM "991" TO "988" - NEW SURVEY.
13. PROFILE LINE 6: CHANGED GS ALT AT PFAF FROM "CUVSA 1500" TO "CUVSA/OAK VOR/DME 5.39 DME 1500 - IAW FAAO 8260.19J, PARA 8-2-6. C.
14. ADDED PBN REQUIREMENTS NOTE: RNP APCH-GPS. FROM BBUBB OR FFIST OR MYSHN - IAW FAAO 8260.19J, PARA 8-6-8.
15. DELETED "CHART NOTE: DME REQUIRED" AND MOVED "DME REQUIRED" TO EQUIPMENT REQUIREMENTS NOTE - IAW FAAO 8260.19J, PARA 8-6-8.
16. DELETED CHART PLANVIEW NOTE: GPS OR RADAR REQUIRED - NO LONGER REQUIRED, REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH-GPS. FROM BBUBB OR FFIST OR MYSHN - IAW FAAO 8260.19J, PARA 8-6-8.
17. CHANGED CHART NOTE: FROM "RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA." TO "RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA." - DOUBLE ASTERISK IS NOT REQUIRED.
18. ALTERNATE MINIMUMS: CHANGED FROM "ILS: STANDARD # CAT C 700-2, CAT D 1400-3" TO "ILS: STANDARD" - IAW FAAO 8260.3F, PARA 3-4-1.
19. ADDITIONAL FLIGHT DATA: DELETED "CHART MANDATORY 5300 AT CYMBL" - NO LONGER REQUIRED.
20. ADDITIONAL FLIGHT DATA: DELETED "CHART MANDATORY 5000 AT BBUBB" - NO LONGER REQUIRED.
21. ADDITIONAL FLIGHT DATA: DELETED "CHART 541 TREE 374215N/1220608W" ADDED CURRENT 7:1 OBSTACLES TO FAA FORM 8260-9, PART C: GENERAL REMARKS IAW FAAO 8260.19J, PARA 8-6-11. E. (2) IMPLEMENTATION LETTER.
22. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBST: 174 ANT 374213N/1220826W" TO "CHART FAS OBST: 174 ANTENNA (06-109322) 374213N/1220826W" - SAME OBSTACLE, NEW SURVEY ID AND NAME.
23. ADDED NOTE "CHART SPEED ICON IN PLANVIEW AT BBUBB: MAX 200 KIAS" - PER ATC REQUEST.
24. ADDED NOTE "CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 200 KIAS" - PER ATC REQUEST.
25. ADDED NOTE "CHART SPEED ICON IN PLANVIEW AT GROVE: MAX 200 KIAS" - PER ATC REQUEST.
26. ADDITIONAL FLIGHT: DATA ADDED "CHART AT OR BELOW 9000 AND AT OR ABOVE 7000 AT FFIST" - PER ATC REQUEST.
27. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 5300 AT CYMBL" - PER ATC REQUEST.
28. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 6200 AT MYSHN" - PER ATC REQUEST.
29. MINIMUMS: CHANGED FROM "S-ILS 28R\*" TO "S-ILS 28R" - DOUBLE ASTERISK NOT REQUIRED.
30. MINIMUMS: S-LOC 28R VISIBILITY CATS C/D CHANGED FROM "RVR 2400" TO "RVR 4000" - IAW FAAO 8260.3F, VISIBILITY TABLES.
31. MINIMUMS: SIDESTEP 28L VISIBILITY CATS A/B CHANGED FROM "RVR 5500" TO "1 SM", VISIBILITY CAT D CHANGED FROM "1 1/2 SM" TO "2 SM" - IAW FAAO 8260.3F, VISIBILITY TABLES.
32. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 6000 AT BBUBB" - PER ATC REQUEST.

04/28/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/12/2025.

PROFILE LINE 3: ADDED DIST FAF TO MAP: 4.53.

COORDINATED WITH:

A4A

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ALPA

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AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: NORCAL APP CON, OAK ATCT, CA AERO, AMGR.

FLIGHT CHECKED BY

WENDI S GIMA

Digitally signed by

CASIMIR L TABAKA

Apr 24, 2025

OFFICE

AJF

DATE

04/22/2025

DEVELOPED BY

WILLIAM HANBY

Digitally signed by

WILLIAM HANBY

Feb 12, 2025

OFFICE

AJV-A432

DATE

01/30/2025

APPROVED BY

CASIMIR L. TABAKA

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CASIMIR L TABAKA

Apr 24, 2025

OFFICE

AJV-A432

DATE

05/08/2025

TITLE

MANAGER

