

<b>RNAV - STANDARD</b> <b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>				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.															
<b>TERMINAL ROUTES</b>										<b>MISSED APPROACH</b>									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW30  CLIMB TO 4000 DIRECT PLAZA AND ON TRACK 282.06 TO SAU VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.  ADDITIONAL FLIGHT DATA: HOLD NE, RT, 217.21 INBOUND. CHART FAS OBST: 229 TOWER 373904N/1220903W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 1.56 NM TO RW30* *LNAV ONLY. WAAS CHANNEL # 93535 REFERENCE PATH ID: W30A CHART CIRCLING ICON LTP HAE: -29.8 M									
FRNNY (IAF)		WUVON (FB)		296.11 / 5.11				2700											
PARBB (IAF)		ZOLUM (FB)		254.16 / 3.54				3400											
ZOLUM		WUVON (FB)		264.04 / 3.00				2700											
WUVON (IF)		MITOE (FB)		296.09 / 2.21				2000											
MITOE (FAF)		RW30 (MAP) (FO)		296.07 / 6.08															
RW30 (MAP)		209 MSL		296.07															
209 MSL		PLAZA (FB)																	
PLAZA		SAU VOR/DME (FO)		282.06 / 9.78				4000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT WUVON 3. FAC: <u>296.07</u> FAF: <u>MITOE</u> DIST FAF TO MAP: <u>6.08</u> THLD: <u>6.08</u> 4. MIN. ALT: <b>WUVON 2700, MITOE 2000</b> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>MITOE 2000</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS CLEAR 8. MSA FROM: <b>RW30 5100</b>																MAG VAR: 14E		EPOCH YEAR: 2015	
<b>MINIMUMS</b>																			
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	209	2400	200	209	2400	200	209	2400	200	209	2400	200							
LNAV/VNAV DA	283	2400	274	283	2400	274	283	2400	274	283	2400	274							
LNAV MDA	580	2400	571	580	2400	571	580	1 1/4	571	580	1 1/4	571							
CIRCLING	580	1	571	580	1	571	660	1 3/4	651	1400	3	1391							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 1C (34F) OR ABOVE 54C (130F). @ CAT D 1400-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: RADAR REQUIRED. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 9 TDZE: 9				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
OAKLAND, CA		AIRPORT NAME:						RNAV (GPS) Y RWY 30, AMDT 5A				AMDT: 5							
		METROPOLITAN OAKLAND INTL						15 SEPTEMBER 2016				DATED 10/15/2015							

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**NOTES, (CONT.):**

**CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CAT C/D VISIBILITY TO 1 5/8 MILE.**

CITY AND STATE

OAKLAND, CA

**ELEVATION: 9**

**TDZE: 9**

AIRPORT NAME:

**METROPOLITAN OAKLAND INTL**

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**RNAV (GPS) Y RWY 30, AMDT 5A**

15 SEPTEMBER 2016

SUP:

AMDT:

DATED:

QUALITY  
24  
CHECKED

5

10/15/2015

**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	KOAK
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	374206.0985N
LTP/FTP LONGITUDE	1221252.4145W
LTP/FTP ELLIPSOIDAL HEIGHT	-00298
FPAP LATITUDE	374312.2235N
FPAP LONGITUDE	1221431.6115W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 7693F85B

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00027
FPAP ORTHOMETRIC HEIGHT	+00027

CITY AND STATE  OAKLAND, CA	ELEVATION: 9	TDZE: 9	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) Y RWY 30, AMDT 5A  15 SEPTEMBER 2016	SUP:	<div style="text-align: center;"> <div>QUALITY</div> <div>24</div> <div>CHECKED</div> </div>	
	AIRPORT NAME:				AMDT:		5
	METROPOLITAN OAKLAND INTL				DATED:		10/15/2015

**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 - KOAK

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
FRNNY	010	FRNNY	IF	FB										E A
FRNNY	020	WUVON	TF	FB	1.0	296.1						AA 02700		EE B
PARBB	010	PARBB	IF	FB										E A
PARBB	020	ZOLUM	TF	FB	1.0	254.2						AA 03400		E
PARBB	030	WUVON	TF	FB	1.0	264.0						AA 02700		EE B
	010	WUVON	IF	FB								AA 02700		E I
	020	MITOE	TF	FB	1.0	296.1				RW30		AA 02000		E F
	030	RW30	TF	FO	0.3	296.1		3.00				AT 00064		GY M
	040		CA	FB		296.1						AA 00209		M
	050	PLAZA	DF	FB										E
	060	SAU	TF	FO	1.0	282.1						AA 04000		VY
	070	SAU	HM	FO		217.2			R			AA 04000		VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
SAU	N375119.20	W1223121.91
FRNNY	N373328.03	W1215957.90
MITOE	N373811.16	W1220700.68
PARBB	N373627.44	W1215641.88
PLAZA	N374701.74	W1222016.59
WUVON	N373645.69	W1220452.98
ZOLUM	N373620.55	W1220108.67

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW30	N374206.10	W1221252.41	00009	55.0

QUALITY  
4  
CHECKED

CITY AND STATE <b>OAKLAND, CA</b>	ELEVATION: <b>9</b> TDZE: <b>9</b>	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) Y RWY 30, AMDT 5A</b>  15 SEPTEMBER 2016	SUP:
	AIRPORT NAME: <b>METROPOLITAN OAKLAND INTL</b>			AMDT: <b>5</b>
				DATED: <b>10/15/2015</b>