

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33

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>AIRPORT ID</u> KQXB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> OCEAN CITY	<u>STATE</u> MD		
<u>AIRPORT ELEVATION</u> 16	<u>TDZE</u> 11	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 11/30/2023	<u>CANCEL/SUSPEND</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>
ZJAAY		GOBYO		TF	FB	1.00	092.16	19.01	2000
GOBYO	IAF	FEMOD		TF	FB	1.00	055.17	6.51	2000
FEMOD	IF	ELUCO		TF	FB	1.00	325.23	6.03	1500
ELUCO	FAF	RW32	MAP	TF	FO	0.30	325.17	4.57	
RW32	MAP	261 MSL		CA			325.17		
261 MSL		PFAIR		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW32

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2000 DIRECT PFAIR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT FEMOD

3. FAF: 325.17FAF: ELUCODIST FAF TO MAP: 4.55DIST FAF TO THLD: 4.55

4. MIN ALT: FEMOD 2000, ELUCO 1500

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.66GS ANT:

6. MIN GP INCPT: 1500GP ALT AT PFAF : ELUCO 1500OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW32 2100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART W386  
CHART ATLANTIC LOW CONTROL AREA  
CHART ASSATEAGUE ISLAND NATIONAL SEASHORE  
HOLD NW, RT, 145.02 INBOUND.  
CHART FAS OBST: 111 TREE (24-035567) 381822N/0750722W.  
CHART VDP AT 1.05 NM TO RW32.  
WAAS CHANNEL # 61246  
REFERENCE PATH ID: W32A  
LTP HAE: -32.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	261	1	250	261	1	250	261	1	250	261	1	250			
LNAV/VNAV DA	289	1	278	289	1	278	289	1	278	289	1	278			
LNAV MDA	380	1	369	380	1	369	380	1	369	380	1	369			

CHANGES - REASONS



AIRPORT ID  
KOBX

PROCEDURE NAME  
RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT  
ORIG

CITY  
OCEAN CITY

STATE  
MD

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZDC, NHK APP CON, ARPT MGR

FLIGHT CHECKED BY

BOB S PRESSLER

*Digitally signed by*

**DAVID TEFFETELLER**

Sep 07, 2023

OFFICE

FPO

DATE

10/10/2023

DEVELOPED BY

GUY COPELAND

*Digitally signed by*

**GUY R COPELAND**

Aug 30, 2023

OFFICE

AJV-A433

DATE

08/28/2023

APPROVED BY

JOHNNIE BAKER

*Digitally signed by*

**DAVID TEFFETELLER**

Sep 07, 2023

OFFICE

AJV-A430

DATE

TITLE  
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K0XB
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	381823.1120N
LTP/FTP LONGITUDE	0750700.1345W
LTP/FTP ELLIPSOIDAL HEIGHT	-00327
FPAP LATITUDE	381924.0795N
FPAP LONGITUDE	0750822.7670W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1512
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	1469D1A3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00034
FPAP ORTHOMETRIC HEIGHT	+00034



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KQXB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>AMDT NO.</u> ORIG	<u>CITY</u> OCEAN CITY	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 16	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM ZJAAY TO GOBYO

<u>RNP</u>	<u>DISTANCE</u> 19.01	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	380521.00N/0752254.00W		240	164	98	4E	1000				AT760	2000
TERRAIN	380539.00N/0752312.00W		39 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM GOBYO TO FEMOD

<u>RNP</u>	<u>DISTANCE</u> 6.51	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	380840.23N/0745955.94W		20	50	20	2C	1000				AT980	2000
TERRAIN	380845.15N/0750001.28W		0 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM  
FEMOD

TO  
ELUCO

RNP	DISTANCE 6.03	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	381334.89N/0750048.94W		20	50	20	2C	500					600
TERRAIN	381311.64N/0745958.95W		0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM  
ELUCO

TO  
DA

<u>RNP</u>	<u>DISTANCE</u> 4.57	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				261

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM  
ELUCO

TO  
DA

<u>RNP</u>	<u>DISTANCE</u> 4.57	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 278			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (24-035567)	381821.89N/0750722.41W		111	20	3	1A	161				XP17	289

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

TO MAINTAIN CURRENT MINIMA

FINAL: LNAV

FROM  
ELUCO

TO  
RW32

<u>RNP</u>	<u>DISTANCE</u> 4.57	<u>PAT</u>	<u>MAP</u> RW32	<u>HAT</u> 369			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (24-035567)	381821.89N/0750722.41W		111	20	3	1A	250					380

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM  
DA

TO  
PFAIR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 74					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
TOWER (24-000090)	382312.40N/0751725.70W		683	250	50	4D	1000					1700
TERRAIN	382515.00N/0751703.00W		39 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM  
DA

TO  
PFAIR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 128					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
TOWER (24-000090)	382312.40N/0751725.70W		683	250	50	4D	1000					1700
TERRAIN	382515.00N/0751703.00W		39 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:





MISSED APPROACH : LNAV

FROM

RW32

TO

PFAIR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 280					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
TOWER (24-000090)	382312.40N/0751725.70W		683	250	50	4D	1000					1700
TERRAIN	382515.00N/0751703.00W		39 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW32

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (10-020645)	383018.00N/0753836.00W	308	27.5	1048	250	50	4D	1000			2100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
NHK APP CON, ZDC ARTCC, DCA FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KOXB	24	KOXB	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KSBY	24	KSBY	18.29	Y	47

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KOXB 16 KSBY 47  
RA = 46.9

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW02 - MIRL (PCL), REIL (PCL), PAPI-2L		NPI-G	
RW14 - MIRL, REIL (PCL), PAPI-2L		NPI-G	
RW20 - MIRL (PCL), REIL (PCL), PAPI-2L		NPI-G	
RW32 - MIRL, REIL (PCL), PAPI-4L		NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	11.2	40.0			3.00	35.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-11C	+54C	-11C	+14.97C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 3-YEAR HISTORY (2018-2020).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1260.



**"VISUAL PORTION OF FINAL" PENETRATIONS**

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

<b><u>PENETRATIONS REMARKS:</u></b>

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY USE ONLY:  
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING AND INCREASE LPV DA TO 308 FEET; INCREASE LNAV/VNAV DA TO 336 FEET; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM.  
BARO-VNAV AND VDP NA WHEN USING SALISBURY-OCEAN CITY WICOMICO RGNL ALTIMETER SETTING.

20 FT VEGETATION AND SHIP HEIGHT USED PER FPT.



<div>AIRPORT ID KOXB</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 32</div>	<div>AMDT NO. ORIG</div>	<div>CITY OCEAN CITY</div>	<div>STATE MD</div>	<div>AIRPORT ELEVATION 16</div>	<div>FACILITY RNAV</div>
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.98
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	313.17
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.55
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	313.17
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD  
COORDINATES  
(IF STR-IN)

381823.11N/0750700.13W

ARP COORDINATES

381837.73N/0750726.49W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 32 DISTANCE 0.42 NM

FAF  
COORDINATES

381516.22N/0750247.21W

FIX NAME  
COORDINATES

REMARKS

QUALITY  
34  
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> GUY COPELAND	<u>OFFICE</u> AJV-A433	<u>DATE</u> 08/28/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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