

**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> PAE	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 16R	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> EVERETT	<u>STATE</u> WA
<u>AIRPORT ELEVATION</u> 607	<u>TDZE</u> 581	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 16E
				<u>EPOCH YEAR</u> 2020
				<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>
PAE VOR/DME		WEBVE		TF	FO	1.00	341.83	13.93	3000
WEBVE	IF/IAF	SISKE		TF	FB	1.00	163.15	9.38	2200
SISKE	FAF	RW16R	MAP	TF	FO	0.30	163.14	4.95	
RW16R	MAP	1100 MSL		CA			163.14		1100
1100 MSL		ECEPO		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW16R

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 DIRECT ECEPO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF** (IAF)
- HOLD N WEBVE, RT, 163.15 INBOUND, 3000 IN LIEU OF PT (IF/IAF), MAX 6000.
- FAC:** 163.14                      **FAF:** SISKE                      **DIST FAF TO MAP:** 4.95                      **DIST FAF TO THLD:** 4.95
- MIN ALT:** WEBVE 3000, SISKE 2200
- DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **255 HAT:** 0.66                      **GS ANT:**
- MIN GP INCPT:** 2200                      **GP ALT AT PFAF:** SISKE 2200                      **OM:**                      **MM:**                      **IM:**
- GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 57.0
- MSA FROM:** RW16R 8100



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SEA ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SEA ALTIMETER SETTING AND INCREASE LPV DA TO 924 FEET AND ALL VISIBILITIES TO RVR 5500. INCREASE LNAV/VNAV DA TO 1090 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD NE, RT, 236.00 INBOUND.

CHART FAS OBST: 777 CONTROL TOWER (53-020252) 475433N/1221645W.

CHART VDP AT 1.55 NM TO RW16R.

WAAS CHANNEL # 45549

REFERENCE PATH ID: W16C

LTP HAE: 149.8 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	836	4000	255	836	4000	255	836	4000	255	836	4000	255				
LNAV/VNAV DA	1002	1 1/4	421	1002	1 1/4	421	1002	1 1/4	421	1002	1 1/4	421				
LNAV MDA	1120	5500	539	1120	5500	539	1120	1 1/2	539	1120	1 1/2	539				
CIRCLING	1120	1	513	1120	1	513	1120	1 1/2	513	1160	2	553				

**CHANGES - REASONS**

ORIGINAL PROCEDURE.



AIRPORT ID  
PAE

PROCEDURE NAME  
RNAV (GPS) X RWY 16R

ORIGINAL/AMENDMENT  
ORIG

CITY  
EVERETT

STATE  
WA

COORDINATED WITH:

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZSE, SEA APP CON, PAE ACTC, AMGR, ATA

FLIGHT CHECKED BY

JAMES L REINEBOLD

*Digitally signed by*  
**ROBERT G HAMILTON**  
May 27, 2026

OFFICE

AJF

DATE

05/21/2026

DEVELOPED BY

RAKE MCGRAW (JUDITH TUTTLE)

*Digitally signed by*  
**ROBERT G HAMILTON**  
May 27, 2026

OFFICE

AJV-A431

DATE

01/30/2026

APPROVED BY

RAKE MCGRAW

*Digitally signed by*  
**ROBERT G HAMILTON**  
May 27, 2026

OFFICE

AJV-A422

DATE

TITLE  
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD  
OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

DATA  
0  
0  
KPAE  
RW16R  
0  
X  
0  
W16C  
475447.1115N  
1221708.4035W  
+01498  
475318.0765N  
1221706.4270W  
00057.0  
F  
03.00  
106.75  
0920  
40.0  
50.0

CRC REMAINDER

3F2FA217

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE  
LTP ORTHOMETRIC HEIGHT  
FPAP ORTHOMETRIC HEIGHT

K1  
+01731  
+01731



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

<u>AIRPORT ID</u> PAE	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 16R	<u>AMDT NO.</u> ORIG	<u>CITY</u> EVERETT	<u>STATE</u> WA	<u>AIRPORT ELEVATION</u> 607	<u>FACILITY</u> RNAV
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**PART A: OBSTRUCTION DATA SEGMENTS**

**FEEDER**

<b>FROM</b> PAE VOR/DME	<b>TO</b> WEBVE
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<u>RNP</u> 1.00	<u>DISTANCE</u> 13.93	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (53-124249)	480725.30N/1221505.10W	882	250	50	4D	1000				AT1118	3000
TERRAIN	475515.00N/1221500.00W	626 (600)								AS1500	2100

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**

**INTERMEDIATE**

<b>FROM</b> WEBVE (IF/IAF)	<b>TO</b> SISKE
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<u>RNP</u> 1.00	<u>DISTANCE</u> 9.38	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (53-124249)	480725.30N/1221505.10W	882	250	50	4D	500				AT818	2200
TERRAIN	480751.00N/1221448.00W	606 (600)								AS1500	2100

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**



**AIRPORT ID**  
PAE

**PROCEDURE NAME**  
RNAV (GPS) X RWY 16R

**AMDT NO.**  
ORIG

**CITY**  
EVERETT

**STATE**  
WA

**AIRPORT ELEVATION**  
607

**FACILITY**  
RNAV

**FINAL: LPV**

**FROM** SISKE **TO** RW16R

**RNP** 0.30 **DISTANCE** 4.96 **PAT** **MAP** DA **HAT** 255 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			MA55	836

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV/VNAV**

**FROM** SISKE **TO** RW16R

**RNP** 0.30 **DISTANCE** 4.95 **PAT** **MAP** DA **HAT** 421 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	475551.00N/1221739.00W	695	215	8	4B		23.42:1			DG299 AC8	1002

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV**

**FROM** SISKE **TO** RW16R

**RNP** 0.30 **DISTANCE** 4.95 **PAT** **MAP** RW16R **HAT** 539 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
CONTROL_TOWER (53-020252)	475432.61N/1221644.64W	777	20	3	1A	250				DG93	1120

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
PAE

**PROCEDURE NAME**  
RNAV (GPS) X RWY 16R

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607

**FACILITY**  
RNAV

**HOLD-IN-LIEU OF PT**

**FROM** WEBVE **TO** P-5

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
P-5

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	481757.00N/1221448.00W	1378	215	8	4B	1000					2400
TERRAIN	481757.00N/1221448.00W	1177 (1200)								AS1500	2700

**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** ECEPO

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
0.30 637

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
CONTROL_TOWER (53-020252)	475432.61N/1221644.64W	777	20	3	1A		ASC				3000
TOWER (53-122873)	475144.14N/1221708.61W	819	20	3	1A	1000					1900
TERRAIN	475145.00N/1221706.00W	643 (600)								AS1500	2100

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
PAE

**PROCEDURE NAME**  
RNAV (GPS) X RWY 16R

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607

**FACILITY**  
RNAV

**MISSED APPROACH: LNAV/VNAV**

**FROM** DA **TO** ECEPO

**RNP** 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS** 841

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (53-122873)	475144.14N/1221708.61W	819	20	3	1A	1000					1900
TERRAIN	475145.00N/1221706.00W	643 (600)								AS1500	2100

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**MISSED APPROACH: LNAV**

**FROM** RW16R **TO** ECEPO

**RNP** 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS** 1020

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (53-122873)	475144.14N/1221708.61W	819	20	3	1A	1000					1900
TERRAIN	475145.00N/1221706.00W	643 (600)								AS1500	2100

**COMPUTATIONS**

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

**SEGMENT REMARKS:**





**AIRPORT ID**  
PAE

**PROCEDURE NAME**  
RNAV (GPS) X RWY 16R

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<b>APPROACH AND RUNWAY LIGHTING SYSTEM</b>	<b>RUNWAY MARKINGS</b>	<b>RUNWAY VISUAL RANGE</b>
RW16L - MIRL, REIL, PAPI-2L	BSC-G	
RW34R - MIRL, REIL, PAPI-2L	BSC-G	
RW16R - MALSR (PCL), HIRL (PCL), TDZ, C/LINE	NPI-G	APPROACH, ROLL OUT
RW34L - MALSF (PCL), HIRL (PCL), C/LINE	NPI-G	APPROACH, ROLL OUT

**GLIDESLOPE ANGLE**  
3.00

**ELEV RWY THRESHOLD**  
567.9

**TCH**  
57.0

**ELEV GS ANTENNA**

**DISTANCE FROM RWY**

**VGSI ANGLE**

**TCH**

**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD  
ON CENTERLINE

FT FROM THRESHOLD  
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

**CRITICAL TEMPERATURES**

**CRITICAL LOW**  
-16C

**CRITICAL HIGH**  
+54C

**ACT**  
-16C

**APT ISA**  
+13.8C

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 962 HIGH TEMP 1270.

**"VISUAL PORTION OF FINAL" PENETRATIONS**

FINAL TYPE	CIRCLING RWY 16L	
20:1		
612 POLE (53-123426) 475426.8800N/1221615.1700W (0.18)		
FINAL TYPE	CIRCLING RWY 34L	
20:1		
578 LIGHTING (53-067664) 475345.8800N/1221707.0800W (0.25)		
FINAL TYPE	CIRCLING RWY 34R	
20:1		
631 POLE (53-122723) 475349.5300N/1221620.6200W (21.22)	659 TREE (53-123286) 475342.9500N/1221614.4700W (15.72)	
649 TREE (53-068701) 475344.9000N/1221613.3200W (15.57)	632 TRANSMISSION_LINE (53-022193) 475347.6800N/1221621.2600W (12.86)	
687 TREE (53-024132) 475336.3600N/1221613.6300W (10.31)	629 POLE (53-035799) 475347.6800N/1221614.3200W (9.68)	
628 TRANSMISSION_LINE (53-022191) 475347.7300N/1221614.4900W (8.94)	682 TREE (53-122799) 475336.7900N/1221614.3900W (7.51)	
605 TRAVERSE_WAY (53-123016) 475350.9500N/1221620.1700W (2.4)	604 TRAVERSE_WAY (53-123193) 475351.1100N/1221615.4700W (2.09)	
676 TREE (53-123041) 475336.7400N/1221613.2500W (1.23)	607 TREE (53-123256) 475350.3000N/1221615.8300W (1)	
608 TREE (53-123444) 475350.0100N/1221615.8100W (0.53)	604 FENCE (53-123282) 475350.7200N/1221620.5700W (0.24)	

**PENETRATIONS REMARKS:**



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

and/or

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

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 140 FT PER FPT CHECKLIST.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

**PART D: AIRSPACE**

**DOCKET #**

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

<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1000FT POINT</b>	<b>3.06</b>
<b>WIDTH OF</b>	<b>FINAL</b>	<b>SEGMENT AT 1000FT POINT</b>	<b>1.20</b>
<b>TRUE COURSE OF</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>179.14</b>
<b>HIGH TERRAIN IN</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>600</b>
<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1500FT POINT</b>	<b>9.73</b>
<b>WIDTH OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT AT 1500FT POINT</b>	<b>1.95</b>
<b>TRUE COURSE OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>179.15</b>
<b>HIGH TERRAIN IN</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>600</b>

**THRESHOLD COORDINATES (IF STR-IN)**

475447.11N/1221708.40W

**ARP COORDINATES**

475414.44N/1221651.13W

**RUNWAY APCH END AND DIST FURTHEST FROM ARP**

RUNWAY 16R DISTANCE 0.58 NM

**FAF COORDINATES**

475943.66N/1221715.00W

**FIX NAME COORDINATES**

**REMARKS**

**PART E: PREPARED BY**

**NAME**

RAKE MCGRAW (JUDITH TUTTLE)

**OFFICE**

AJV-A431

**DATE**

01/30/2026

**TITLE**

