

**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><b>AIRPORT ID</b></u> KCLM	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 27	<u><b>ORIGINAL/AMENDMENT</b></u> 1D	<u><b>CITY</b></u> PORT ANGELES	<u><b>STATE</b></u> WA		
<u><b>AIRPORT ELEVATION</b></u> 291	<u><b>TDZE</b></u> 282	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 26	<u><b>ORIGINAL/AMENDMENT</b></u> 1C	<u><b>DATED</b></u> 01/30/2020	<u><b>MAG VAR</b></u> 16E	<u><b>EPOCH YEAR</b></u> 2020
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u>	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
JAWBN	IAF	COBUX		TF	FB	1.00	268.41	12.05	3700
WATTR	IAF	COBUX		TF	FB	1.00	229.83	8.48	3700
COBUX	IF	FAMUV		TF	FB	1.00	256.85	7.48	3000
FAMUV	FAF	SEBTY/3.50 NM TO RW27		TF	FB	0.30	268.71	3.68	
SEBTY/3.50 NM TO RW27		RW27	MAP	TF	FO	0.30	268.71	3.50	
RW27	MAP	691 MSL		CA			268.71		
691 MSL		MIDWI		DF	FB	1.00			
MIDWI		YUCSU		TF	FO	1.00	255.16	10.32	4000

**MISSED APPROACH**

**MAP:**

LP: RW27  
LNAV: RW27

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING RIGHT TURN TO 4000 DIRECT MIDWI AND ON TRACK 255.16 TO YUCSU AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

2. PROFILE STARTS AT COBUX

3. FAC: 268.71

FAF: FAMUV

DIST FAF TO MAP: 7.18

DIST FAF TO THLD: 7.18

4. MIN ALT: COBUX 3700, FAMUV 3000, SEBTY/3.50 NM TO RW27 1620

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH:

8. MSA FROM: RW27 9000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 13, 31 NA AT NIGHT.  
CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: CIRCLING NA S OF RWY 9-27.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAWBN ON V4 EASTBOUND AND V495 SOUTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATTR ON V495 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON  
FAMUV TO RW27: 3.50/49.9  
HOLD W, LT, 075.00 INBOUND.  
CHART FAS OBST: 625 TREE (53-055969) 480543N/1232541W, 498 TREE (53-056427) 480642N/1232811W.  
CHART 580 BUILDING 480540N/1232440W.  
850 AAO 480438N/1232020W, 700 AAO 480532N/1232428W.  
CHART VDP AT 1.49 NM TO RW27.  
WAAS CHANNEL # 90338  
REFERENCE PATH ID: W27A  
LTP HAE: 65.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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
LP MDA	760	1	478	760	1	478	760	1 3/8	478	760	1 3/8	478			
LNAV MDA	920	1	638	920	1	638	920	1 3/4	638	920	1 3/4	638			
CIRCLING	920	1	629	920	1	629	920	1 3/4	629	1000	2 1/4	709			

**CHANGES - REASONS**

1. UPDATED PROCEDURE NAME FROM RNAV (GPS) RWY 26 TO RNAV (GPS) RWY 27 - RUNWAY RENUMBERING.
2. UPDATED REFERENCE PATH ID FROM W26A TO W27A - RUNWAY RENUMBERING.
3. UPDATED CHART NOTE FROM RWY 26 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED TO RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - RUNWAY RENUMBERING.
4. UPDATED CHART NOTE FROM CIRCLING NA S OF RWY 8-26 TO CIRCLING NA S OF RWY 9-27 - RUNWAY RENUMBERING.
5. CRC REMAINDER UPDATED FROM BB153A60 TO 81AF3B8C - RUNWAY RENUMBERING.
6. UPDATED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS 8260-19I.
7. UPDATED LINE 8 MSA FROM RW26 TO RW27 - RUNWAY RENUMBERING.
8. UPDATED TERMINAL ROUTES FIX FROM SEBTY/3.50 NM TO RW26 TO SEBTY/3.50 NM TO RW27 - RUNWAY RENUMBERING.
9. ADDED ALTERNATE NOTE "NA WHEN LOCAL WEATHER NOT AVAILABLE" - 8260.19I 8-6-11.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAL** ☐ **NBAA** ☒ **OTHER:** ZSE, SEA FSS, NUW APP CON, AMGR

**FLIGHT CHECKED BY**

GARY J VEER

*Digitally signed by***CASIMIR L TABAKA**

Apr 03, 2023

**OFFICE**

FPO

**DATE**

07/12/2022

**DEVELOPED BY**

CASEY HILL

*Digitally signed by***CASEY D HILL**

May 11, 2022

**OFFICE**

AJV-A432

**DATE**

04/05/2022

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by***CASIMIR L TABAKA**

Jun 01, 2022

**OFFICE**

AJV-A430

**DATE****TITLE**  
MANAGERQUALITY  
20  
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLM
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	480703.3280N
LTP/FTP LONGITUDE	1232930.2290W
LTP/FTP ELLIPSOIDAL HEIGHT	+00655
FPAP LATITUDE	480725.7315N
FPAP LONGITUDE	1233138.9340W
THRESHOLD CROSSING HEIGHT (TCH)	00049.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	81AF3B8C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+00888
FPAP ORTHOMETRIC HEIGHT	+00888

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

<u>AIRPORT ID</u> KCLM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>AMDT NO.</u> 1D	<u>CITY</u> PORT ANGELES	<u>STATE</u> WA	<u>AIRPORT ELEVATION</u> 291	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
JAWBN

TO  
COBUX

<u>RNP</u>	<u>DISTANCE</u> 12.05	<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>
1.TOWER (53-020390)	480058.67N/1225539.05W		2337	20	3	1A	1000				PR150 AT213	3700
2.TERRAIN	480100.00N/1225536.00W		2104 (2100)								AS1500	3600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM  
WATTR

TO  
COBUX

<u>RNP</u>	<u>DISTANCE</u> 8.48	<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>
3.AAO	480333.00N/1230509.00W		1149	50	125	2E	1000				PR110 AT1441	3700
4.TERRAIN	480333.00N/1230533.00W		778 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE

FROM  
COBUX

TO  
FAMUV

RNP	DISTANCE 7.48	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	480203.00N/1231215.00W		2221	50	50	2D	500				PR100 DG179	3000
6.TERRAIN	480303.00N/1231236.00W		981 (1000)								AS1500	2500

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

FINAL: LP

FROM  
FAMUV

TO  
SEBTY/3.50 NM TO RW27

RNP	DISTANCE 3.68	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	480452.20N/1232104.60W		700	50	20	2C	250				XL60 DG610	1620

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



FINAL: LP STEPDOWN

FROM  
SEBTY/3.50 NM TO RW27

TO  
RW27

<u>RNP</u>	<u>DISTANCE</u> 3.50	<u>PAT</u>	<u>MAP</u> RW27	<u>HAT</u> 478			<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>
8.TREE (53-056427)	480642.29N/1232811.17W		498	20	3	1A	250					760

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

FINAL: LNAV

FROM  
FAMUV

TO  
SEBTY/3.50 NM TO RW27

<u>RNP</u>	<u>DISTANCE</u> 3.68	<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>
9.AAO	480438.80N/1232020.45W		800	50	20	2C	250				XL60 DG510	1620

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



FINAL: LNAV STEPDOWN

FROM  
SEBTY/3.50 NM TO RW27

TO  
RW27

RNP	DISTANCE 3.50	PAT	MAP RW27	HAT 638	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TREE (53-055969)	480543.44N/1232541.19W		625	20	3	1A	250				PR80 SA-49	920

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

MISSED APPROACH : LNAV

FROM  
RW27

TO  
YUCSU

RNP	DISTANCE	PAT	MAP	HAT	HMAS 740							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
11.AAO	480923.40N/1234103.95W		1366	50	20	2C	1000					2400
12.TERRAIN	480923.40N/1234103.95W		1166 (1200)								AS1500	2700

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





AIRPORT ID

KCLM

PROCEDURE NAME

RNAV (GPS) RWY 27

AMDT NO.

1D

CITY

PORT ANGELES

STATE

WA

AIRPORT ELEVATION

291

FACILITY

RNAV

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
8.TREE (53-056427)	480642.29N/1232811.17W	1.30	629	498	20	3	1A	300		SI	920
CATEGORY B											
8.TREE (53-056427)	480642.29N/1232811.17W	1.82	629	498	20	3	1A	300		SI	920
CATEGORY C											
8.TREE (53-056427)	480642.29N/1232811.17W	2.85	629	498	20	3	1A	300		SI	920
CATEGORY D											
9.AAO	480532.28N/1232427.98W	3.72	709	700	50	20	2C	300			1000

CIRCLING REMARKS:

MSA

CENTER

RW27

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	474806.00N/1234242.00W	190	21.0	7992				1000			9000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT PER FPT: 125 FEET.

CIRCLING NA SOUTH OF RWY 9-27 DUE TO MOUNTAINOUS TERRAIN.

UNABLE LPV AND LNAV/VNAV DUE TO GQS PENETRATIONS.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZSE ARTCC, NUW APP CON, SEA FSS

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KCLM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCLM	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KFHR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KFHR	<u>DISTANCE</u> 30.73	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 96

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KCLM 291, KFHR 113  
RA = 95.60

<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>
RW13		BSC-G	
RW31		BSC-G	
RW27 - MIRL (PCL), REIL, PAPI-4L		NPI-F	
RW09 - MALSR (PCL), MIRL (PCL), VASI-4L		PIR-F	

<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> 3.70	<u>TCH</u> 49.9
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<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 1354
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS



AIRPORT ID KCLM		PROCEDURE NAME RNAV (GPS) RWY 27	AMDT NO. 1D	CITY PORT ANGELES	STATE WA	AIRPORT ELEVATION 291	FACILITY RNAV
Final Type	CIRCLING						
20:1							
RWY 13:				323 TREE (53-028444) 480742.29N-1233019.05W (73.89)			
309 TREE (53-029341) 480739.05N-1233023.18W (66.22)				309 TREE (53-029274) 480744.01N-1233021.68W (47.75)			
289 TREE (53-029339) 480739.81N-1233021.17W (46.63)				298 TREE (53-029201) 480741.70N-1233022.73W (44.71)			
287 TREE (53-029006) 480740.73N-1233019.83W (43.14)				312 TREE (53-029147) 480745.16N-1233023.84W (41.90)			
298 TREE (53-029271) 480742.59N-1233024.42W (37.83)				299 TREE (53-029148) 480744.39N-1233026.15W (27.99)			
263 TREE (53-029291) 480738.38N-1233020.64W (27.71)				289 TREE (53-029543) 480743.21N-1233026.91W (21.65)			
299 TREE (53-028825) 480745.60N-1233029.84W (16.10)				295 TREE (53-028817) 480744.50N-1233031.25W (14.23)			
284 TREE (53-029329) 480746.49N-1233022.87W (9.98)				282 TREE (53-029327) 480744.22N-1233028.79W (6.91)			
				RWY 31:			
487 TREE (53-028266) 480635.06N-1232929.54W (42.78)				512 TREE (53-028209) 480629.81N-1232926.77W (40.29)			
407 TREE (53-028280) 480647.19N-1232938.44W (30.85)				480 TREE (53-029430) 480633.47N-1232928.86W (27.74)			
449 TREE (53-028820) 480642.75N-1232922.47W (24.80)				524 TREE (53-062681) 480629.42N-1232912.55W (24.74)			
462 TREE (53-029066) 480640.34N-1232920.31W (23.56)				569 TREE (53-062460) 480622.64N-1232902.70W (22.82)			
554 TREE (53-056503) 480623.65N-1232908.54W (22.77)				563 TREE (53-062678) 480622.08N-1232906.26W (20.91)			
461 TREE (53-028234) 480635.35N-1232931.07W (20.81)				403 TREE (53-029319) 480645.84N-1232938.20W (20.64)			
482 TREE (53-028867) 480633.92N-1232922.44W (19.98)				426 TREE (53-028495) 480644.76N-1232926.63W (17.96)			
478 TREE (53-028869) 480631.63N-1232928.39W (17.02)				539 TREE (53-056052) 480624.83N-1232910.73W (16.80)			
515 TREE (53-028408) 480631.11N-1232909.04W (16.58)				557 TREE (53-059097) 480623.41N-1232904.05W (16.57)			
497 TREE (53-028216) 480627.93N-1232926.06W (15.96)				460 TREE (53-029522) 480641.24N-1232915.08W (15.89)			
452 TREE (53-029234) 480636.65N-1232929.80W (15.05)				445 TREE (53-029561) 480641.67N-1232921.45W (14.32)			
567 TREE (53-062393) 480621.91N-1232900.78W (14.21)				560 TREE (53-057409) 480620.90N-1232906.77W (13.79)			
477 TREE (53-028910) 480630.85N-1232928.94W (13.69)				518 TREE (53-028546) 480628.25N-1232912.48W (13.61)			
469 TREE (53-062602) 480637.68N-1232916.99W (13.14)				472 TREE (53-029112) 480633.60N-1232924.91W (13.11)			
562 TREE (53-058606) 480621.49N-1232903.50W (12.36)				442 TREE (53-028689) 480640.47N-1232924.71W (12.13)			
462 TREE (53-029427) 480639.46N-1232915.78W (11.55)				563 TREE (53-058867) 480619.79N-1232906.08W (10.78)			
464 TREE (53-029188) 480634.88N-1232924.42W (9.69)				428 TREE (53-061938) 480641.68N-1232928.11W (9.49)			
460 TREE (53-029394) 480634.75N-1232926.78W (9.43)				461 TREE (53-029424) 480635.78N-1232923.35W (8.59)			

QUALITY

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AIRPORT ID KCLM		PROCEDURE NAME RNAV (GPS) RWY 27	AMDT NO. 1D	CITY PORT ANGELES	STATE WA	AIRPORT ELEVATION 291	FACILITY RNAV
561 TREE (53-056520) 480620.66N-1232903.70W (8.17)				461 TREE (53-029190) 480638.35N-1232916.84W (7.74)			
446 TREE (53-029024) 480638.12N-1232925.29W (7.13)				709 TREE (53-056859) 480550.48N-1232852.62W (6.94)			
430 TREE (53-028816) 480642.32N-1232923.78W (6.34)				664 TREE (53-061850) 480606.63N-1232838.36W (5.06)			
502 TREE (53-028568) 480626.99N-1232918.91W (3.92)				544 TREE (53-059093) 480621.00N-1232909.62W (3.40)			
425 TREE (53-028583) 480640.85N-1232928.21W (3.12)				440 TREE (53-029232) 480637.63N-1232927.40W (2.88)			
433 TREE (53-029549) 480638.06N-1232930.08W (2.59)				633 TREE (53-062335) 480608.29N-1232849.78W (1.94)			
277 LIGHTING (53-028017) 480704.91N-1232951.39W (0.19)							
Final Type	LP AND LNAV						
34:1							
RWY 26:				490 TREE (53-058150) 480647.25N-1232823.27W (73.48)			
456 TREE (53-057046) 480649.01N-1232838.87W (70.94)				458 TREE (53-057011) 480648.70N-1232836.48W (68.09)			
481 TREE (53-060079) 480646.98N-1232824.57W (66.79)				455 TREE (53-056770) 480649.82N-1232836.19W (65.37)			
451 TREE (53-057043) 480650.86N-1232837.79W (65.24)				484 TREE (53-057642) 480647.43N-1232821.99W (65.15)			
466 TREE (53-056518) 480647.86N-1232831.10W (65.06)				447 TREE (53-056060) 480648.33N-1232840.26W (64.11)			
459 TREE (53-057205) 480649.09N-1232832.67W (62.02)				473 TREE (53-057404) 480647.95N-1232825.76W (61.82)			
477 TREE (53-058871) 480648.72N-1232823.36W (61.76)				467 TREE (53-062389) 480648.16N-1232828.74W (61.73)			
453 TREE (53-056315) 480647.73N-1232835.91W (61.26)				481 TREE (53-057942) 480646.53N-1232821.86W (61.22)			
442 TREE (53-056299) 480651.74N-1232840.01W (61.19)				479 TREE (53-062092) 480645.86N-1232821.88W (58.75)			
479 TREE (53-057000) 480647.22N-1232820.88W (57.84)				481 TREE (53-057031) 480646.56N-1232820.09W (57.82)			
442 TREE (53-056836) 480650.35N-1232838.79W (57.79)				466 TREE (53-059454) 480650.92N-1232826.10W (57.71)			
498 TREE (53-056427) 480642.29N-1232811.17W (54.39)				458 TREE (53-058171) 480649.08N-1232828.65W (53.25)			
420 TREE (53-062005) 480652.69N-1232846.92W (53.25)				474 TREE (53-056998) 480648.16N-1232820.37W (52.57)			
409 TREE (53-028157) 480654.72N-1232850.78W (51.23)				406 TREE (53-028149) 480651.39N-1232853.49W (50.96)			
448 TREE (53-057650) 480647.39N-1232832.74W (49.88)				449 TREE (53-058600) 480649.34N-1232831.34W (49.64)			
470 TREE (53-057940) 480650.02N-1232820.07W (49.38)				403 TREE (53-028207) 480654.72N-1232852.68W (48.90)			
463 TREE (53-060072) 480650.49N-1232822.77W (47.95)				401 TREE (53-062253) 480652.44N-1232853.91W (47.56)			
471 TREE (53-059397) 480649.17N-1232818.27W (46.27)				431 TREE (53-056263) 480651.67N-1232836.44W (43.24)			
451 TREE (53-058197) 480649.25N-1232826.30W (41.84)				456 TREE (53-059711) 480651.75N-1232822.43W (41.24)			
404 TREE (53-028334) 480654.04N-1232848.13W (40.60)				454 TREE (53-056282) 480645.90N-1232825.15W (40.10)			

QUALITY  
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AIRPORT ID KCLM	PROCEDURE NAME RNAV (GPS) RWY 27	AMDT NO. 1D	CITY PORT ANGELES	STATE WA	AIRPORT ELEVATION 291	FACILITY RNAV
452 TREE (53-061585)	480656.65N-1232821.64W (39.40)		460 TREE (53-057939)	480651.28N-1232819.46W (39.15)		
482 TREE (53-059191)	480640.22N-1232811.96W (38.36)		442 TREE (53-056818)	480650.68N-1232828.60W (38.35)		
461 TREE (53-057035)	480655.39N-1232815.64W (35.86)		444 TREE (53-058201)	480652.18N-1232824.60W (33.76)		
449 TREE (53-060078)	480653.01N-1232821.42W (33.24)		441 TREE (53-059130)	480657.08N-1232823.82W (32.93)		
405 TREE (53-028542)	480651.97N-1232844.29W (32.63)		453 TREE (53-062737)	480655.63N-1232818.01W (32.62)		
458 TREE (53-059403)	480653.57N-1232816.07W (32.32)		453 TREE (53-057933)	480654.95N-1232818.11W (32.30)		
445 TREE (53-061677)	480655.63N-1232821.64W (31.63)		457 TREE (53-059727)	480654.30N-1232815.41W (30.60)		
453 TREE (53-057004)	480652.54N-1232818.03W (30.34)		450 TREE (53-057639)	480657.73N-1232817.40W (30.02)		
450 TREE (53-057941)	480653.86N-1232818.16W (28.58)		451 TREE (53-059726)	480647.62N-1232818.65W (25.84)		
416 TREE (53-057010)	480651.27N-1232834.93W (25.02)		454 TREE (53-060062)	480654.45N-1232813.71W (24.43)		
477 TREE (53-057366)	480640.64N-1232807.01W (24.11)		451 TREE (53-057384)	480651.87N-1232815.93W (23.78)		
438 TREE (53-059107)	480654.35N-1232820.58W (21.62)		434 TREE (53-056511)	480659.14N-1232820.37W (20.81)		
452 TREE (53-056786)	480655.38N-1232812.40W (20.60)		431 TREE (53-061769)	480655.76N-1232822.91W (20.18)		
445 TREE (53-057033)	480657.42N-1232815.00W (20.15)		442 TREE (53-056835)	480646.15N-1232820.43W (19.17)		
367 TREE (53-028905)	480653.40N-1232856.15W (18.61)		468 TREE (53-059281)	480640.05N-1232809.01W (18.53)		
420 TREE (53-059135)	480646.41N-1232829.04W (14.00)		444 TREE (53-056790)	480654.28N-1232812.71W (12.37)		
418 TREE (53-059121)	480657.95N-1232823.82W (10.58)		414 TREE (53-058165)	480652.40N-1232826.95W (08.46)		
420 TREE (53-057398)	480657.91N-1232821.33W (07.74)		439 TREE (53-056983)	480642.66N-1232817.02W (06.96)		
406 TREE (53-061847)	480659.13N-1232826.91W (05.44)		406 TREE (53-061848)	480657.23N-1232826.49W (03.20)		
424 TREE (53-057030)	480644.97N-1232821.07W (01.52)					

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

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

**PENETRATIONS REMARKS:**





<b>AIRPORT ID</b> KCLM	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 27	<b>AMDT NO.</b> 1D	<b>CITY</b> PORT ANGELES	<b>STATE</b> WA	<b>AIRPORT ELEVATION</b> 291	<b>FACILITY</b> RNAV
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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	2.30
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	284.71
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	528
DISTANCE FROM	THLD	TO 1500FT POINT	5.18
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.34
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	284.71
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	528

THRESHOLD  
COORDINATES  
(IF STR-IN)

480703.33N/1232930.23W

ARP COORDINATES

480712.70N/1232958.90W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 27 DISTANCE 0.58 NM

FAF  
COORDINATES

480514.46N/1231908.23W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.  
THLD DISPLACED 1354FT, ACTUAL COORDINATES: 480659.96N/1232910.92W.

QUALITY  
20  
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASEY HILL	<u>OFFICE</u> AJV-A432	<u>DATE</u> 04/05/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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