

**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>AIRPORT ID</u> AST	<u>PROCEDURE NAME</u> ILS RWY 26	<u>ORIGINAL/AMENDMENT</u> 3C	<u>CITY</u> ASTORIA	<u>STATE</u> OR
<u>AIRPORT ELEVATION</u> 15	<u>TDZE</u> 14	<u>SUPERSEDED</u> ILS RWY 26	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 15E
<u>FACILITY</u> I-AST	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
AST VOR/DME		ZINKY/AST 19.00 DME					080.96	19.00	5300
PULYI/AST R-332/19.00 DME CW	IAF	ZINKY/AST 19.00 DME	NOPT				19.00 DME ARC	(AST LR-074)	4400
ZIGPI/AST R-170/19.00 DME CCW	IAF	ZINKY/AST 19.00 DME	NOPT				19.00 DME ARC	(AST LR-087)	4400
ZUNAB/AST VOR/DME 25.47 DME	IAF	ZINKY/AST 19.00 DME	NOPT				216.00 & 260.50	2.90 (HDG) & 4.37 (I-AST)	4400
ZINKY/AST 19.00 DME	IF/IAF	JUNSA/AST 12.81 DME	PFAF				260.50	6.19 (I-AST)	4000

MISSED APPROACH

MAP:

ILS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2900 DIRECT AST VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|--|--|-------------------|--------------------|--------------|-------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD E ZINKY/19.00 DME, RT, 260.50 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 260.50 | PFAF: JUNSA/AST 12.81 DME | DIST PFAF TO MAP: | DIST PFAF TO THLD: | | |
| 4. MIN ALT: ZINKY/AST 19.00 DME 4400, JUNSA/AST 12.81 DME 4000 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | GS ANT: 1050 | |
| 6. MIN GS INCPT: 4000 | GS ALT AT PFAF: JUNSA/AST 12.81 DME 4000 | | | OM: | MM: |
| 7. GS ANGLE: 3.00 | 34:1: | 20:1: | TCH: 55.9 | | IM: |
| 8. MSA FROM: AST VOR/DME 004-184 4600, 184-004 3400 | | | | | |



PBN REQUIREMENTS NOTE:

DME REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART NOTE: RWY 26 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AST VOR/DME AIRWAY RADIALS 024 CW 099.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 079.00 INBOUND.
CHART AST R-332 AT PULYI.
CHART AST R-170 AT ZIGPI.

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
S-ILS 26	264	1	250	264	1	250	264	1	250	264	1	250			

CHANGES - REASONS

- AIRPORT ELEVATION: UPDATED FROM "14" TO "15" – UPDATED SURVEY INFORMATION.
- TERMINAL ROUTES: ADDED "NOPT" TO LINE 4 ZUNAB/AST VOR/DME 25.47 DME TO ZINKY/AST 19.00 DME - ERRONEOUSLY LEFT OFF PREVIOUS AMENDMENT.
- TERMINAL ROUTES: LINE TWO UPDATED FROM "PULYI/AST VOR/DME 19.00 DME CW" TO "PULYI/AST R-332/19.00 DME CW" – UPDATED SIAP FORMATTING.
- TERMINAL ROUTES: LINE TWO MOVED "(AST LR-074)" FROM COURSE TO DISTANCE– UPDATED SIAP FORMATTING.
- TERMINAL ROUTES: LINE THREE UPDATED FROM "ZIGPI/AST 19.00 DME CCW" TO "ZIGPI/AST R-170/19.00 DME CCW" – UPDATED SIAP FORMATTING.
- TERMINAL ROUTES: LINE THREE MOVED "(AST LR-087)" FROM COURSE TO DISTANCE– UPDATED SIAP FORMATTING.
- PROFILE: LINE TWO UPDATED FROM "HOLD E ZINKY/I-AST, RT, 260.50 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000" TO "HOLD E ZINKY/19.00 DME, RT, 260.50 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000" - IAW 8260.19I.
- PROFILE: LINE SEVEN REMOVED 34:1 "IS NOT CLEAR" AND 20:1 "IS CLEAR" – NOT REQUIRED IAW 8260.19I.
- ALTERNATE: CHANGED FROM "ILS:STANDARD" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" – IAW 8260.19I.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZSE, MMV FSS, WESTERN FPT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by
ERIC N SUSKI
May 23, 2024

DEVELOPED BY

ERIC N SUSKI (CODY J. GIVEN)

Digitally signed by
ERIC N SUSKI

May 23, 2024

OFFICE

AJV-A431

DATE

02/01/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by
ERIC N SUSKI
May 23, 2024

OFFICE

AJV-A431

DATE

07/11/2024

TITLE

MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
AST	ILS RWY 26	3C	ASTORIA	OR	15	I-AST

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM AST VOR/DME **TO** ZINKY/AST 19.00 DME

<u>RNP</u>	<u>DISTANCE</u> 19.00	<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	460511.20N/1232730.96W	3227	1000	20	6C	2000					5300
TERRAIN	460511.20N/1232730.96W	3027 (3000)								AS1500	4500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM PULYI/AST R-332/19.00 DME CW **TO** ZINKY/AST 19.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<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	462739.55N/1233302.62W	3040	50	20	2C	1000				PR94 AT266	4400
TERRAIN	462739.55N/1233302.62W	2840 (2800)								AS1000	3800

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL: ARC

FROM

ZIGPI/AST R-170/19.00 DME CCW

TO

ZINKY/AST 19.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<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	460511.20N/1232730.96W	3227	1000	3	6A	1000				PR118	4400
TERRAIN	460511.20N/1232730.96W	3027 (3000)								AS1000	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

ZUNAB/AST VOR/DME 25.47 DME

TO

ZINKY/AST 19.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	2.90										
<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	460643.38N/1232546.55W	2520	50	20	2C	1000				PR99 AT781	4400
TERRAIN	460643.38N/1232546.55W	2320 (2300)								AS1500	3800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

ZINKY/AST 19.00 DME (IF/IAF)

TO

JUNSA/AST 12.81 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	6.19										
<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	460511.20N/1232730.96W	3227	50	20	2C	500					3800
TERRAIN	460511.20N/1232730.96W	3027 (3000)								AS1000	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM

JUNSA/12.81 DME

TO

RW26

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	12.81		DA		250						
<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 (KAST0075)	460934.72N/1235205.89W	40	20	3	1A		34:1				264

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

ZINKY/19.00 DME

TO

<u>RNP</u>	<u>DISTANCE</u>	<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	460511.20N/1232730.96W	3227	50	20	2C	1000					4300
TERRAIN	460511.20N/1232730.96W	3027 (3000)								AS1000	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: ILS

FROM

DA

TO

AST VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
										72	
<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				2900
AAO	461637.75N/1235248.06W	1449	50	20	2C	1000					2500
TERRAIN	461637.75N/1235248.06W	1249 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MSA

CENTER

AST VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
004-184	AAO	455809.00N/1234109.00W	130	14.0	3552	164	98	4E	1000			4600
184-004	AAO	463148.00N/1234300.00W	002	23.0	2362	164	98	4E	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

LOC FINAL NOT ADDED DUE TO FINAL EXCEEDING 10 NM. FPT NOTIFIED AND ADVISES ATC REQUESTED THIS PROCEDURE DESIGN.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MMV FSS, ZSE ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	AST	24	AST	0.20	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	KLS	24	KLS	40.85	Y	96

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KAST 15, KKLS 20
RA = 95.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
I-AST	POCC	24	1

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - REIL, MIRL (PCL), VASI-4L	BSC-G	
RW32 - MIRL (PCL), PAPI-4L	BSC-G	
RW08 - MIRL (PCL), REIL (PCL), VASI-4L	NPI-G	
RW26 - MALSR (PCL), MIRL (PCL)	PIR-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	12.3	55.9	8.5	1050		

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	713
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	ILS
34:1	
31 TREE (KAST0069) 460933.46N-1235203.12W 8.71	36 TREE (KAST0049) 460927.32N-1235159.34W 4.17
25 FENCE (KASTT000035) 460933.95N-1235203.35W 3.32	25 FENCE (KASTT000579) 460933.95N-1235203.35W 3.32
15 BUSH (KASTT000053) 460926.44N-1235208.46W 1.70	15 BUSH (KASTT000561) 460926.44N-1235208.46W 1.70

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
AST	ILS RWY 26	3C	ASTORIA	OR	15	I-AST
27 FENCE (KASTT000025) 460933.33N-1235201.40W 1.13			27 FENCE (KASTT000589) 460933.33N-1235201.40W 1.13			
41 TREE (KASTT000624) 460924.52N-1235155.66W 0.78			52 TREE (KASTT000636) 460924.10N-1235150.32W 0.66			
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - PRECISION APPROACH.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KELSO ALTIMETER SETTING AND INCREASE DA TO 360 FEET.
ASSUMED VEGETATION HEIGHT 100FT.

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	8.89
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.14
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	275.50
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1900
DISTANCE FROM	THLD	TO 1500FT POINT	18.42
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	8.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	275.50
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3000

THRESHOLD COORDINATES (IF STR-IN)	460930.60N/1235211.22W
ARP COORDINATES	460928.72N/1235243.05W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 26 DISTANCE 0.49 NM
FAF COORDINATES	460818.27N/1233430.85W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 713FT, ACTUAL COORDINATES: 460929.93N/1235201.14W



<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
AST	ILS RWY 26	3C	ASTORIA	OR	15	I-AST
PART E: PREPARED BY						
<u>NAME</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
ERIC N SUSKI (CODY J. GIVEN)			AJV-A431	02/01/2024	AERONAUTICAL INFORMATION SPECIALIST	

