

**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> 0W3	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 19	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> CHURCHVILLE	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 412	<u>TDZE</u> 412	<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SUPERSEDED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> 11W <u>EPOCH YEAR</u> 1995 <u>CANCEL/SUSPEND</u>

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 098/30 CW 233/30	NOPT	098/17 CW 233/17		3900
2. 098/17 CW 233/17		SYMBA	IF/IAF	2400
3. 233/30 CW 279/30	NOPT	SYMBA	IF/IAF	2400
4. 279/30 CW 008/30		SRABI	IAF	2400
5. 008/30 CW 098/30		008/16 CW 098/16		3400
6. 008/16 CW 098/16		MFASA	IAF	2400

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>
SRABI	IAF	SYMBA	NOPT	TF	FB	1.00	278.59	6.50	2400
MFASA	IAF	SYMBA	NOPT	TF	FB	1.00	098.41	6.50	2400
SYMBA	IF/IAF	NALAA		TF	FB	1.00	188.50	5.02	2000
NALAA	FAF	RW19	MAP	TF	FO	0.30	188.50	4.84	
RW19	MAP	1000 MSL		CA			188.50		1000
1000 MSL		SHILO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW19

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SHILO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
13
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)										
2.	HOLD N SYMBA, RT, 188.50 INBOUND, 2400 IN LIEU OF PT (IAF), MAX 6000.															
3.	FAC:	188.50	FAF:	NALAA	DIST FAF TO MAP:	4.84	DIST FAF TO THLD:	4.84								
4.	MIN ALT:	SYMBA 2400, NALAA 2000														
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		281 HAT:	0.75	GS ANT:					
6.	MIN GP INCPT:	2000	GP ALT AT PFAF:	NALAA 2000					OM:		MM:			IM:		
7.	GP ANGLE:	3.01	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	42.0								
8.	MSA FROM:															

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 1 NA AT NIGHT.
CHART NOTE: CIRCLING NA FOR CAT C W OF RWY 1-19.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 195.00 INBOUND.
CHART FAS OBST: 543 TOWER (24-040485) 393444N/0761138W.
CHART VDP AT 1.00 NM TO RW19.
WAAS CHANNEL # 45847
REFERENCE PATH ID: W19A
LTP HAE: 92.5 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	696	7/8	284	696	7/8	284	696	7/8	284		NA				
LNAV/VNAV DA	693	7/8	281	693	7/8	281	693	7/8	281		NA				
LNAV MDA	800	1	388	800	1	388	800	1 1/8	388		NA				
CIRCLING	860	1	448	880	1	468	880	1 1/2	468		NA				

CHANGES - REASONS



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:

ZDC ARTCC, PCT APP CON, AMGR

FLIGHT CHECKED BY

GALEN W COLLINS

Digitally signed by

RAKE MCGRAW

Oct 01, 2025

OFFICE

AJF

DATE

09/30/2025

DEVELOPED BY

JANTZEN TAYLOR

Digitally signed by

RAKE MCGRAW

Oct 01, 2025

OFFICE

AJV-A422

DATE

07/31/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Oct 01, 2025

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
0W3
RW19
0
0
W19A
393424.4400N
0761215.7205W
+00925
393255.3500N
0761210.6995W
00042.0
F
03.01
106.75
1728
40.0
50.0

CRC REMAINDER

F061CA00

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K6
+01255
+01255



**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>
0W3	RNAV (GPS) RWY 19	ORIG	CHURCHVILLE	MD	412	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 098/30 CW 233/30 **TO** 098/17 CW 233/17

<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>
TOWER (42-000123)	400204.00N/0763707.00W	1864	500	125	5E	2000					3900
TERRAIN	400642.00N/0755630.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 098/17 CW 233/17 **TO** SYMBA

<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>
TOWER (42-000883)	395346.00N/0761421.00W	1339	500	125	5E	1000					2400
TERRAIN	395309.00N/0761600.00W	935 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
13
CHECKED

STRAIGHT-IN AREA

FROM

233/30 CW 279/30

TO

SYMBA

<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	400803.00N/0755151.00W	1221	215	8	4B	1000				AT179	2400
TERRAIN	395951.00N/0755430.00W	826 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM

279/30 CW 008/30

TO

SRABI

<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>
TOWER (42-000260)	394806.39N/0755808.81W	962	250	50	4D	1000				AT400	2400
TERRAIN	394436.00N/0760130.00W	541 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



RIGHT BASE AREA

FROM

008/30 CW 098/30

TO

008/16 CW 098/16

<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	394245.00N/0765530.00W	1332	215	8	4B	2000					3400
TERRAIN	394221.00N/0765524.00W	1118 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RIGHT BASE AREA

FROM

008/16 CW 098/16

TO

MFASA

<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>
TOWER (24-000601)	393755.00N/0764231.00W	1359	500	125	5E	1000					2400
TERRAIN	394312.00N/0764033.00W	905 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

SRABI

TO

SYMBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.50										
<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	394245.00N/0760939.00W	735	215	8	4B	1000				AT665	2400
TERRAIN	394245.00N/0760939.00W	534 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

MFASA

TO

SYMBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.50										
<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	394236.00N/0762003.00W	985	215	8	4B	1000				AT415	2400
TERRAIN	394236.00N/0762003.00W	784 (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

SYMBA (IF/IAF)

TO

NALAA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.02										
<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	394245.00N/0760939.00W	735	215	8	4B	500				AT765	2000
TERRAIN	394230.00N/0761015.00W	508 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

NALAA

TO

RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	4.84		DA		284						
<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 (24-048817)	393451.04N/0761217.75W	506	20	3	1A		ASC			MA34	696

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

NALAA

TO

RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.84		DA	281	

<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>
TOWER (24-040485)	393444.33N/0761137.99W	543	20	3	1A	150					693

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

NALAA

TO

RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.84		RW19	388	

<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>
TOWER (24-040485)	393444.33N/0761137.99W	543	20	3	1A	250					800

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

SYMBA

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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>
TOWER (42-000883)	395346.00N/0761421.00W	1339	500	125	5E	1000					2400
TERRAIN	395309.00N/0761600.00W	935 (900)								AS1500	2400

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

SHILO

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 493			
<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 (24-048899)	393452.45N/0761217.01W	504	20	3	1A		ASC				3000
TOWER (24-000868)	393655.00N/0763051.00W	1105	500	125	5E	1000					2200
TERRAIN	394127.00N/0763642.00W	784 (800)								AS1500	2300

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

SHILO

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 543				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (24-000868)	393655.00N/0763051.00W	1105	500	125	5E	1000					2200
TERRAIN	394127.00N/0763642.00W	784 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW19

TO

SHILO

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 700				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (24-000868)	393655.00N/0763051.00W	1105	500	125	5E	1000					2200
TERRAIN	394127.00N/0763642.00W	784 (800)								AS1500	2300

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (24-040485)	393444.33N/0761137.99W	1.30	448	543	20	3	1A	300			860
CATEGORY B											
TOWER (24-001060)	393326.96N/0761424.31W	1.82	468	571	20	3	1A	300			880
CATEGORY C											
TREE (24-048725)	393356.06N/0760912.49W	2.86	468	544	20	10	1B	300		HAA	880

CIRCLING REMARKS:

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

LEESBURG FSS, POTOMAC TRACON, ZDC ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	0W3	24	0W3		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ATIS	APG	24	APG	6.37	Y	67

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
0W3 412, APG 45
RA = 66.2

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW19 - REIL (PCL), MIRL (PCL), PAPI-2L (PCL)		NPI-F	
RW01 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.01	411.6	42.0			3.25	41.9

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-15C	+54C	-15C	+14.19C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 823 HIGH TEMP 1169.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING: RW01		
20:1			
495 TREE (24-047874) 393340.9900N/0761217.4900W (31.83)	522 TREE (24-048473) 393335.2800N/0761218.5300W (30.15)		
507 TREE (24-048525) 393336.6200N/0761217.9800W (21.83)	510 TREE (24-048643) 393334.3700N/0761218.0000W (13.46)		
485 TREE (24-048719) 393339.0500N/0761218.1100W (12.14)	513 TREE (24-048824) 393333.2600N/0761218.3400W (10.91)		
435 POLE (24-047786) 393347.9300N/0761215.5500W (6.58)	435 POLE (24-048975) 393347.6700N/0761214.5700W (5.1)		



AIRPORT ID		PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
0W3		RNAV (GPS) RWY 19	ORIG	CHURCHVILLE	MD	412	RNAV
434 CATENARY (24-047939) 393347.8300N/0761215.2400W (5.02)				434 POLE (24-047847) 393347.7500N/0761214.8800W (4.56)			
434 CATENARY (24-048641) 393347.6900N/0761214.7400W (4.23)				431 CATENARY (24-048620) 393348.1700N/0761216.4000W (3.94)			
433 POLE (24-048207) 393347.4900N/0761213.9400W (2.08)				431 CATENARY (24-048466) 393347.6300N/0761214.4000W (0.87)			
FINAL TYPE	LPV, LNAV/VNAV, LNAV						
34:1							
506 TREE (24-048817) 393451.0400N/0761217.7500W (17.8)				497 TREE (24-047819) 393448.4500N/0761211.4400W (17.14)			
505 TREE (24-047992) 393451.2900N/0761217.4100W (16.09)				485 TREE (24-048882) 393444.9600N/0761210.6000W (15.6)			
504 TREE (24-048665) 393451.2200N/0761217.9000W (15.25)				484 TREE (24-047728) 393445.4400N/0761213.8700W (12.84)			
504 TREE (24-048899) 393452.4500N/0761217.0100W (11.69)				501 TREE (24-047697) 393451.4900N/0761217.6500W (11.48)			
501 TREE (24-048093) 393451.5100N/0761218.1000W (11.37)				479 TREE (24-048951) 393444.3400N/0761213.4800W (11.15)			
480 TREE (24-048065) 393444.4700N/0761221.0200W (11.01)				500 TREE (24-047840) 393451.5000N/0761215.4800W (10.66)			
481 TREE (24-047730) 393445.1800N/0761214.2200W (10.58)				502 TREE (24-048859) 393452.3700N/0761217.3000W (9.89)			
498 TREE (24-048567) 393451.0300N/0761217.4000W (9.87)				502 TREE (24-048140) 393452.4900N/0761216.6200W (9.61)			
498 TREE (24-048508) 393451.2500N/0761216.6400W (9.29)				457 POLE (24-048001) 393437.5500N/0761220.3000W (8.65)			
457 TREE (24-047947) 393437.8500N/0761213.4900W (8.45)				476 TREE (24-048401) 393444.2900N/0761213.7600W (8.27)			
490 TREE (24-047783) 393448.9700N/0761215.8100W (8.15)				480 TREE (24-048308) 393445.8000N/0761217.7300W (7.39)			
496 TREE (24-047718) 393451.3300N/0761215.1000W (7.21)				497 TREE (24-048669) 393451.6800N/0761215.1800W (7.16)			
497 TREE (24-048245) 393451.8400N/0761215.4200W (6.66)				456 TREE (24-048373) 393438.1000N/0761215.0100W (6.55)			
498 TREE (24-048655) 393452.1800N/0761216.7600W (6.51)				494 TREE (24-048229) 393450.9400N/0761216.7500W (6.2)			
494 TREE (24-047643) 393450.9800N/0761215.6400W (6.19)				486 TREE (24-047630) 393448.3200N/0761215.8600W (6.08)			
478 TREE (24-048066) 393445.8000N/0761214.0600W (5.75)				455 TREE (24-048380) 393438.1000N/0761213.5400W (5.7)			
496 TREE (24-048253) 393451.7900N/0761216.7600W (5.67)				454 TREE (24-047869) 393437.7400N/0761214.6200W (5.66)			
473 TREE (24-047785) 393444.1700N/0761214.1300W (5.59)				454 TREE (24-048601) 393437.8300N/0761214.3800W (5.42)			
498 TREE (24-048363) 393452.6300N/0761216.8800W (5.16)				454 TREE (24-048415) 393438.0400N/0761213.8000W (4.85)			
479 TREE (24-047780) 393446.5000N/0761212.8200W (4.8)				484 TREE (24-048868) 393448.1600N/0761214.0500W (4.74)			
480 TREE (24-048195) 393446.9000N/0761213.1000W (4.58)				453 TREE (24-048420) 393437.6800N/0761218.1300W (4.49)			
492 TREE (24-048642) 393450.9000N/0761217.9400W (4.2)				453 TREE (24-047824) 393437.9300N/0761214.0700W (4.15)			
456 POLE (24-048501) 393439.0800N/0761212.0600W (3.93)				451 VEGETATION (24-048458) 393437.2400N/0761217.8900W (3.82)			
497 TREE (24-048170) 393453.0100N/0761209.7300W (3.75)				448 TREE (24-048509) 393436.2900N/0761218.2100W (3.61)			
480 TREE (24-048004) 393447.4800N/0761212.5100W (2.92)				461 TREE (24-048819) 393441.2000N/0761217.9500W (2.04)			
495 TREE (24-048275) 393452.6600N/0761217.1900W (2.04)				498 TREE (24-048565) 393453.8800N/0761211.0700W (2.03)			
492 TREE (24-047961) 393451.7900N/0761215.9400W (1.76)				472 TREE (24-048396) 393445.2300N/0761214.5000W (1.4)			
476 TREE (24-048515) 393446.6000N/0761214.0100W (1.38)				448 TRAVERSE_WAY (24-048115) 393437.1200N/0761217.0400W (1.26)			
447 TRAVERSE_WAY (24-048391) 393436.7600N/0761218.0400W (1.23)				488 TREE (24-048972) 393450.8800N/0761210.6500W (0.99)			
492 TREE (24-048562) 393451.9800N/0761218.2000W (0.96)				445 TRAVERSE_WAY (24-048137) 393436.3500N/0761219.1700W (0.34)			

QUALITY
13
CHECKED

<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>
0W3	RNAV (GPS) RWY 19	ORIG	CHURCHVILLE	MD	412	RNAV
492 TREE (24-047688) 393452.2600N/0761217.2300W (0.23)			485 TREE (24-048221) 393449.9900N/0761216.0200W (0.1)			
448 TRAVERSE_WAY (24-048724) 393437.5700N/0761215.8300W (0.05)						
PENETRATIONS REMARKS:						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION USED PER FPT.

CAT D MINS NOT PUBLISHED AT FPT/ARPT MGR REQUEST - PER CHECKLIST AIRPORT DESIGN STANDARDS DOES NOT SUPPORT CAT D OPERATIONS.

ORDER 8260.3 CHAPTER 2 APPLIED TO 634 AAO 393903.00N/0761354.00W.

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APG ALTIMETER SETTING AND INCREASE LPV DA TO 763 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 760 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM. BARO-VNAV AND VDP NA WHEN USING APG ALTIMETER SETTING.

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

DISTANCE FROM	THLD	TO 1000FT POINT	2.97
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	177.50
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	4.66
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	177.50
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD COORDINATES (IF STR-IN)	393424.44N/0761215.72W
ARP COORDINATES	393407.88N/0761214.79W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 1 DISTANCE 0.28 NM
FAF COORDINATES	393914.79N/0761232.11W
FIX NAME COORDINATES	

REMARKS

IAF SRABI 394432.433N/0760424.014W 30 NM RADIUS
IAF MFASA 394358.409N/0762114.181W 30 NM RADIUS
IF/IAF SYMBA 394415.726N/0761249.132W 30 NM RADIUS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
JANTZEN TAYLOR	AJV-A422	07/31/2025	AERONAUTICAL INFORMATION SPECIALIST

