

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</u> WATERLOO RGNL	<u>AIRPORT ID</u> KALO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> WATERLOO	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 873	<u>TDZE</u> 868	<u>SUPERSEDED</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 09/19/2013	<u>MAG VAR</u> 0E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 338/30 CW 158/30	NOPT	HOBPU	IF/IAF	3000
2. 158/30 CW 248/30		IQYEL	IAF	3000
3. 248/30 CW 338/30		248/20 CW 338/20		4000
4. 248/20 CW 338/20		JIQKU	IAF	3000

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>
IQYEL	IAF	HOBPU	NOPT	TF	FB	1.00	157.57	7.00	3000
JIQKU	IAF	HOBPU	NOPT	TF	FB	1.00	337.65	7.00	3000
HOBPU	IF/IAF	FEMHA		TF	FB	1.00	067.61	6.50	2600
FEMHA	FAF	EVXOC/2.00 NM TO RW06		TF	FB	0.30	067.71	3.29	
EVXOC/2.00 NM TO RW06		RW06	MAP	TF	FO	0.30	067.71	2.00	
RW06	MAP	2000 MSL		CA			067.71		2000
2000 MSL		HOBPU		DF	FO	1.00			3000



MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW06

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT HOBPU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)	
2. HOLD W HOBPU, RT, 067.61 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	067.71	FAF: FEMHA	DIST FAF TO MAP: 5.29	DIST FAF TO THLD: 5.29	
4. MIN ALT: HOBPU 3000, FEMHA 2600, EVXOC/2.00 NM TO RW06 1540*					
5. DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	200 HAT: 0.47
6. MIN GP INCPT: 2600		GP ALT AT FAF : FEMHA 2600		OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 49.0		IM:
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.27 NM TO RW06*
*LNAV ONLY
WAAS CHANNEL #69342
REFERENCE PATH ID: W06A
CHART FAS OBST: 1057 TOWER 423218N/0922552W.
LTP HAE: 233.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4



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	1068	3/4	200	1068	3/4	200	1068	3/4	200	1068	3/4	200			
LNAV/VNAV DA	1354	1 3/8	486	1354	1 3/8	486	1354	1 3/8	486	1354	1 3/8	486			
LNAV MDA	1320	1	452	1320	1	452	1320	1 3/8	452	1320	1 3/8	452			
CIRCLING	1360	1	487	1400	1	527	1480	1 3/4	607	1600	2 1/4	727			

CHANGES - REASONS

1. UPDATED TAA ALL COURSE 3 DEGREES - MAG VAR FROM 3E TO 0E
2. ADDED TAA RIGHT BASE STEP AT 20 NM - COMMON ALT AT IF/IAF
3. LOWERED TAA LEFT BASE ALT FROM 3200 TO 3000 - CONTROLLING OBSTRUCTION.
4. TERMINAL ROUTES UPDATED IQYEL - HOBPU COURSE/DISTANCE FROM 154.62/5.00 TO 157.57/7.00 - RECALCULATED COURSE/APPLIED PBN MIN SEGMENT LEG LENGTH.
5. TERMINAL ROUTES UPDATED JIQUU - HOBPU COURSE/DISTANCE FROM 334.68/5.00 TO 337.65/7.00 - RECALCULATED COURSE/APPLIED PBN MIN SEGMENT LEG LENGTH.
6. TERMINAL ROUTES UPDATED HOBPU - FEMHA COURSE/DISTANCE FROM 064.65/5.00 TO 067.61/6.50 - RECALCULATED COURSE/APPLIED PBN MIN SEGMENT LEG LENGTH.
7. TERMINAL ROUTES ADDED FAF-SDF, SDF-MAP, MAP-CLEARANCE LIMIT SEGMENTS - UPDATED FORMS TO CURRENT STANDARD.
8. UPDATED HOLD HOBPU FROM 064.65 INBOUND TO 067.61 - MAGVAR UPDATE, RECALCULATED COURSE.
9. UPDATED FAC FROM 064.72 TO 067.71 - MAGVAR UPDATE, RECALCULATED FINAL COURSE.
10. ADDED DIST FAF TO MAP - IAW 8260.19H 8-6-7C.
11. UPDATED DIST FAF TO THLD FROM 5.00 TO 5.29 - OPTIMUM PFAF LOCATION.
12. UPDATED MIN ALT AT FEMHA FROM 2500 TO 2600 - OBS EVALUATION.
13. ADDED MIN ALT EVXOC/2.00 NM TO RW06 1540* - ADDED LNAV SDF TO PROCEDURE.
14. ADDED MIN GS INCPT/ GS ALT AT FEMHA 2600 - ADDED LPV MINIMA
15. ADDED GS ANGLE/TCH - COMPUTED ANGLE/TCH VALUE.
16. ADDED 20:1 IS CLEAR - DOCUMENTED IAW 8260.19H 8-6-7 G.
17. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND APPLICABLE NOTES - AIRPORT/FPT REQUEST.
18. UPDATED LNAV MDA/HAT FROM 1540/672 TO 1320/452 - ADDED STEPDOWN FIX, OBSTACLE EVALUATION.
19. UPDATED LNAV VISIBILITY CAT C FROM 2 TO 1 3/8 CAT D FROM 2 1/4 TO 1 3/8 - VIS CK CALCULATION.
20. UPDATED CIRCLING MDA/HAA CAT A FROM 1540/667 TO 1320/452, CAT B FROM 1540/667 TO 1400/527, CAT C FROM 1540/667 TO 1480/607, CAT D FROM 1540/667 TO 1600/727 - CONTROLLING OBSTRUCTION.
21. UPDATED CIRCLING VISIBILITY CAT C FROM 2 TO 1 3/4 - VIS CK CALCULATION.
22. UPDATED VDP FROM 1.96 NM TO 1.27NM - RECALCULATED VISUAL DESCENT POINT.
23. UPDATED FAS OBS FROM 1233 TOWER TO 1057 TOWER - NEW CONTROLLING OBSTRUCTION.
24. ADDED CHART CIRCLING ICON - NEW CIRCLING RADIUS APPLIED.
25. PROCEDURAL MAG VAR FROM 3E TO 0E - MAG VAR TOLERANCE
26. FAS DATA, VAL FROM 50 TO 35 - UPDATED VALUE 200' HAT.

<u>AIRPORT</u> WATERLOO RGNL	<u>AIRPORT ID</u> KALO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> WATERLOO	<u>STATE</u> IA
<u>COORDINATED WITH:</u>					
A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZAU, WATERLOO ATCT, ALO APP CON, AMGR					
<u>FLIGHT CHECKED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u> <i>Digitally signed by</i>			<u>OFFICE</u>	<u>DATE</u>	
HEIDI SNIDER <i>HEIDI SNIDER</i>			AJV-5423	05/01/2018	
Jun 21, 2018					
<u>APPROVED BY</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JULIE MORGAN			AJV-5420		MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KALO
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	423302.3040N
LTP/FTP LONGITUDE	0922427.9580W
LTP/FTP ELLIPSOIDAL HEIGHT	+02331
FPAP LATITUDE	423335.9940N
FPAP LONGITUDE	0922236.3475W
THRESHOLD CROSSING HEIGHT (TCH)	00049.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1104
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	CA2B9F92
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02645
FPAP ORTHOMETRIC HEIGHT	+02645



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
WATERLOO RGNL	KALO	RNAV (GPS) RWY 6	1	WATERLOO	IA	873	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
338/30 CW 158/30

TO
HOBPU

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.WINDMILL (19-021320)	423752.68N/0931626.40W	1667	250	50	4D	1000				AT333	3000
2.TERRAIN	424236.00N/0931800.00W	1280 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

LEFT BASE AREA

FROM
158/30 CW 248/30

TO
IQYEL

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (19-001091)	430217.00N/0922326.00W	1565	500	50	5D	1000				AT435	3000
4.TERRAIN	430330.00N/0922839.00W	1191 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



RIGHT BASE AREA

FROM

248/30 CW 338/30

TO

248/20 CW 338/20

<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>
5.TOWER (19-001314)	420525.00N/0920514.00W	2421	50	20	2C	1000				AT579	4000
6.TERRAIN	424330.00N/0920342.00W	1073 (1100)									2600

<u>COMPUTATIONS</u>	<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>
---------------------	------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT
REMARKS:

RIGHT BASE AREA

FROM

248/20 CW 338/20

TO

JIQKU

<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>
7.TOWER (19-000022)	422958.00N/0921551.00W	1540	250	50	4D	1000				AT460	3000
8.TERRAIN	423057.00N/0924254.00W	1090 (1100)								AS1500	2600

<u>COMPUTATIONS</u>	<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>
---------------------	------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT
REMARKS:



FINAL: LNAV STEPDOWN

FROM

EVXOC/2.00 NM TO RW06

TO

RW06

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	2.00		RW06		452						
<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>
14.TOWER (19-002099)	423217.69N/0922551.64W	1057	20	3	1A	250					1320

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

HOBPU

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
		P-5									
<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>
11.TOWER (19-002699)	422708.70N/0924114.80W	1445	250	50	4D	1000					2500
16.TERRAIN	423024.00N/0924636.00W	1090 (1100)								AS1500	2600

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

HOBPU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							903				
<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				3000
17.TOWER (19-001013)	424630.10N/0922020.58W	1441	20	3	1A	1000					2500
18.TERRAIN	424003.00N/0922121.00W	1080 (1100)								AS1500	2600

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

HOBPU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1193				
<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				3000
17.TOWER (19-001013)	424630.10N/0922020.58W	1441	20	3	1A	1000					2500
18.TERRAIN	424003.00N/0922121.00W	1080 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



MISSED APPROACH : LNAV

FROM

RW06

TO

HOBPU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1220				
<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				3000
17.TOWER (19-001013)	424630.10N/0922020.58W	1441	20	3	1A	1000					2500
18.TERRAIN	424003.00N/0922121.00W	1080 (1100)								AS1500	2600

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

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
<u>CATEGORY A</u>											
14.TOWER (19-002099)	423217.69N/0922551.64W	1.30	487	1057	20	3	1A	300			1360
<u>CATEGORY B</u>											
19.TRANSMISSION_LINE (19-028139)	423532.28N/0922431.40W	1.84	527	1090	20	3	1A	300			1400
<u>CATEGORY C</u>											
20.STACK (19-000357)	423136.96N/0922624.45W	2.89	607	1170	20	3	1A	300			1480
<u>CATEGORY D</u>											
21.TOWER (19-001449)	423048.00N/0922829.00W	3.77	727	1233	500	50	5D	300		AC50	1600

CIRCLING REMARKS:



FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<div>X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<div>X</div>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-20C	+54C	-28C	+13.27C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2013-2017).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 965 HIGH TEMP 1127.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE INDEPENDENCE ALTIMETER SETTING: INCREASE LPV DA TO 1180 FEET, LNAV/VNAV DA TO 1416 FEET ALL MDA 80 FEET, INCREASE LPV ALL CATS VISIBILITY 1/8 SM, LNAV/VNAV ALL CATS, LNAV CAT C/D AND CIRCLING CAT C/D 1/4 SM.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING INDEPENDENCE ALTIMETER SETTING.
70 FT VEGETATION PER FPT CHECKLIST.
NAVAID (19-023439) PENETRATES THE VGS SURFACE 0.68FT, THIS NAVAID HAS BEEN INSTALLED TO FAA STANDARDS AND PENETRATION MAY BE DISREGARDED.
ORDER 8260.3, VOLUME 1, 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	3.39
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	067.71
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1019
DISTANCE FROM	THLD	TO 1500FT POINT	5.09
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	067.71
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1019

THRESHOLD
COORDINATES
(IF STR-IN)423302.30N/0922427.96W

ARP COORDINATES423325.50N/0922401.20W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 12 DISTANCE 0.74 NM

FAF
COORDINATES423102.04N/0923105.28W

FIX NAME
COORDINATES

REMARKS NO ADDITIONAL AIRSPACE REQUIRED



<u>AIRPORT</u>	<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>
WATERLOO RGNL	KALO	RNAV (GPS) RWY 6	1	WATERLOO	IA	873	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
HEIDI SNIDER	AJV-5423	05/01/2018	AERONAUTICAL INFORMATION SPECIALIST

