

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW13  CLIMB TO 4000 DIRECT HOGEB AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SE, RT, 315.05 INBOUND. CHART FAS OBST: 929 TREE 484544N/0965608W DISTANCE TO THLD FROM 250 HATH: 0.64 NM. WAAS CHANNEL # 40333 REFERENCE PATH ID: W13A CHART CIRCLING ICON LTP HAE: 222.3 M							
NALCO		HML VORTAC (FO)		357.85 / 18.57				2800									
ZOMTA (IAF)		HML VORTAC (NOPT) (FB)		170.73 / 7.88				2800									
HML VORTAC (IF/IAF)		HUTLU (FB)		125.42 / 4.70				2400									
HUTLU (FAF)		JUXIV/1.50 NM TO RW13 (FB)		134.82 / 3.33													
JUXIV/1.50 NM TO RW13		RW13 (MAP) (FO)		134.82 / 1.50													
RW13 (MAP)		1068 MSL		134.82													
1068 MSL		HOGEB (FO)						4000									
1. PT <u>      </u> SIDE OF COURSE <u>      </u> OUTBOUND <u>      </u> FT WITHIN <u>      </u> MILES OF <u>      </u> (IAF) 2. HOLD NW HML VORTAC, RT, 125.42 INBOUND, 2800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>134.82</u> FAF: <u>HUTLU</u> DIST FAF TO MAP: <u>4.83</u> THLD: <u>4.83</u> 4. MIN. ALT: HML VORTAC 2800, HUTLU 2400, JUXIV/1.50 NM TO RW13 1340* 5. DIST TO THLD FROM OM: <u>      </u> MM: <u>      </u> IM: <u>150</u> HAT: <u>100</u> HAT: <u>      </u> GS ANT: <u>      </u> 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>HUTLU 2400</u> OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>45.0</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW13 3300</u>																	
MAG VAR: 5E EPOCH YEAR: 2000																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @					
CATEGORY =====>	A			B			C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	1068	1	250	1068	1	250	1068	1	250		NA						
LNAV/VNAV DA	1211	1 3/8	393	1211	1 3/8	393	1211	1 3/8	393		NA						
LNAV MDA	1180	1	362	1180	1	362	1180	1	362		NA						
CIRCLING	1380	1	560	1380	1	560	1380	1 1/2	560		NA						
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. *LNAV ONLY (SEE FORM 8260-10)																	
CITY AND STATE				ELEVATION: 820 THRE: 818				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
HALLOCK, MN				AIRPORT NAME: HALLOCK MUNI				RNAV				RNAV (GPS) RWY 13, ORIG 19 SEPTEMBER 2013				AMDT: NONE	
																DATED	

QUALITY  
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAFTON, ND ALTIMETER SETTING AND INCREASE ALL DA 63 FT AND ALL MDA 80 FT; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE; LNAV CAT C VISIBILITY 3/8 MILE; CIRCLING CAT C VISIBILITY 1/4 MILE.

QUALITY  
1  
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CITY AND STATE HALLOCK, MN	ELEVATION: 820	THRE: 818	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG 19 SEPTEMBER 2013	SUP:
	AIRPORT NAME:				AMDT: NONE
	HALLOCK MUNI				DATED:

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0  
SBAS SERVICE PROVIDER IDENTIFIER 0  
AIRPORT IDENTIFIER KHCO  
RUNWAY RW13  
APPROACH PERFORMANCE DESIGNATOR 0  
ROUTE INDICATOR 0  
REFERENCE PATH DATA SELECTOR W13A  
REFERENCE PATH IDENTIFIER (APPROACH ID) 484525.0000N  
LTP/FTP LATITUDE 0965527.3510W  
LTP/FTP LONGITUDE +02223  
LTP/FTP ELLIPSOIDAL HEIGHT 484416.9095N  
FPAP LATITUDE 0965527.3510W  
FPAP LONGITUDE 00045.0  
THRESHOLD CROSSING HEIGHT (TCH) F  
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00  
GLIDEPATH ANGLE (GPA) 106.75  
COURSE WIDTH AT THRESHOLD 1528  
LENGTH OFFSET 40.0  
HORIZONTAL ALERT LIMIT (HAL) 50.0  
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

8B7BB537

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3  
LTP ORTHOMETRIC HEIGHT +02494  
FPAP ORTHOMETRIC HEIGHT +02494

QUALITY  
4  
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CITY AND STATE HALLOCK, MN	ELEVATION: 820 THRE: 818 AIRPORT NAME: HALLOCK MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG 19 SEPTEMBER 2013	SUP: AMDT: NONE DATED:
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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHCOK3FR13	ANALCO	010NALCOK3EA0E	IF							18000		A	JS
SUSAP KHCOK3FR13	ANALCO	020HML K3D 0VY	020TF			35790186		+ 02800				A	JS
SUSAP KHCOK3FR13	ANALCO	030HML K3D 0VE AR	HF			12540040		+ 02800				A	JS
SUSAP KHCOK3FR13	AZOMTA	010ZOMTAK3EA0E	A IF							18000		A	JS
SUSAP KHCOK3FR13	AZOMTA	020HML K3D 0VE B	010TF			17070079		+ 02800				A	JS
SUSAP KHCOK3FR13	R	010HML K3D 0V I	IF					+ 02800		18000		A	JS
SUSAP KHCOK3FR13	R	020HUTLUK3EA1E	F 051TF			12540047		+ 02400			RW13	K3PGA	JS
SUSAP KHCOK3FR13	R	020HUTLUK3EA2WALPV		ALNAV/VNAV	ALNAV								JS
SUSAP KHCOK3FR13	R	021JUXIVK3EA0E S	031TF			13480033		V 0134001340		-300		A	JS
SUSAP KHCOK3FR13	R	030RW13 K3PGOGY M	031TF			13480015		00863		-300		A	JS
SUSAP KHCOK3FR13	R	040	0 M	CA		1348		+ 01068				A	JS
SUSAP KHCOK3FR13	R	050HOGEBK3EA0EY	DF					+ 04000				A	JS
SUSAP KHCOK3FR13	R	060HOGEBK3EA0EE	R HM			31510040		+ 04000				A	JS

[illegible][illegible]

CITY AND STATE <b>HALLOCK, MN</b>	ELEVATION: <b>820</b> THRE: <b>818</b> AIRPORT NAME: <b>HALLOCK MUNI</b>	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) RWY 13, ORIG</b> 19 SEPTEMBER 2013	SUP:
				AMDT: <b>NONE</b>
				DATED:

Bearings, headings, courses, 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 in feet RVR.

[illegible]

CITY AND STATE <b>HALLOCK, MN</b>	ELEVATION: <b>820</b>	THRE: <b>818</b>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			<b>RNAV (GPS) RWY 13, ORIG</b>	AMDT: <b>NONE</b>
	<b>HALLOCK MUNI</b>		<b>RNAV</b>	19 SEPTEMBER 2013	DATED:

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	NALCO	NALCO	010		IF		FB					
	NALCO	HML	020		TF		FO	2.0	357.9 (002.9T)	018.6	AA 02800	
	NALCO	HML	030	IAF	HF	R	FO		125.4 (130.4T)	004.0	AA 02800	
	ZOMTA	ZOMTA	010	IAF	IF		FB					
	ZOMTA	HML	020		TF		FB	1.0	170.7 (175.7T)	007.9	AA 02800	
		HML	010	FACF	IF		FB				AA 02800	
		HUTLU	020	FAF	TF		FB	0.5	125.4 (130.4T)	004.7	AA 02400	
		JUXIV	021	SDF	TF		FB	0.3	134.8 (139.8T)	003.3	AA 01340 GS 01340	
		RW13	030	MAP	TF		FO	0.3	134.8 (139.8T)	001.5	AT 00863	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		134.8 (139.8T)		AA 01068	
	HOGB	050		DF		FO				AA 04000	
	HOGB	060		HM	R	FO		315.1 (320.1T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HML	N485209.09	W0970701.51	N4852.152	W09707.025
	HOGB	N483505.50	W0964348.24	N4835.092	W09643.804
	HUTLU	N484906.13	W0970136.39	N4849.102	W09701.607
	JUXIV	N484633.62	W0965821.59	N4846.560	W09658.360
	NALCO	N483337.12	W0970825.55	N4833.619	W09708.426
	ZOMTA	N490000.00	W0970754.80	N4900.000	W09707.913
	RW13	N484525.00	W0965654.09	N4845.417	W09656.902

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00818	45

QUALITY  
4  
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CITY AND STATE <b>HALLOCK, MN</b>	ELEVATION: <b>820</b> THRE: <b>818</b>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: <b>HALLOCK MUNI</b>	<b>RNAV</b>	<b>RNAV (GPS) RWY 13, ORIG</b> 19 SEPTEMBER 2013	AMDT: <b>NONE</b>
			DATED:	