

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.												
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION																
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE								
ETNOE (IF/IAF)		CREEC (FB)		185.00 / 6.30				3000		LPV: DA LNAV/VNAV: DA LNAV: RW18 CLIMB TO 4500 DIRECT JAGBU AND ON TRACK 133.04 TO FEXAT AND HOLD.						
CREEC (FAF)		ATUXE/2.10 NM TO RW18 (FB)		184.99 / 3.45												
ATUXE/2.10 NM TO RW18		RW18 (MAP) (FO)		184.99 / 2.10						ADDITIONAL FLIGHT DATA: HOLD SW, RT, 043.35 INBOUND. CHART FAS OBST: 1389 TREE 424815N/0961149W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.32 MILES TO RW18* *LNAV ONLY. WAAS CHANNEL # 78415 REFERENCE PATH ID: W18A LTP HAE: 337.6 M						
RW18 (MAP)		1444 MSL		184.99												
1444 MSL		JAGBU (FB)														
JAGBU		FEXAT (FO)		133.04/ 12.32				4500								
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD N ETNOE, RT, 185.00 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>184.99</u> FAF: <u>CREEC</u> DIST FAF TO MAP: <u>5.55</u> THLD: <u>5.55</u> 4. MIN. ALT: <u>ETNOE 4000, CREEC 3000, ATUXE/2.10 NM TO RW18 1900*</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: <u>CREEC 3000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>																
										MAG VAR: 3E			EPOCH YEAR: 2015			
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		1444	7/8	250	1444	7/8	250	1444	7/8	250		NA				
LNAV/VNAV DA		1708	1 3/4	514	1708	1 3/4	514	1708	1 3/4	514		NA				
LNAV MDA		1640	1	446	1640	1	446	1640	1 3/8	446		NA				
CIRCLING		1740	1	543	1820	1	623	1820	1 3/4	623		NA				
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING ORANGE CITY ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE LE MARS, IA		ELEVATION: 1197 THRE: 1194 AIRPORT NAME: LE MARS MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 2 MAY 2013					SUP:				
												AMDT: ORIG				
												DATED 02/11/2010				

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 ORANGE CITY ALTIMETER SETTING AND INCREASE ALL DA 63 FEET AND ALL MDA 80 FEET, INCREASE LPV ALL CATS AND LNAV CAT C VISIBILITY 1/8

MILE, INCREASE LNAV/VNAV ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: VDP NA WITH ORANGE CITY ALTIMETER SETTING.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	095/30 CW 275/30 (NOPT)	ETNOE (IF/IAF) (FB)	4000
2.	275/30 CW 095/30	ETNOE (IAF) (FO)	4400

CITY AND STATE
LE MARS, IA

ELEVATION: 1197 THRE: 1194
AIRPORT NAME:
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RNAV (GPS) RWY 18, AMDT 1
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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	KLRJ
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	424700.2170N
LTP/FTP LONGITUDE	0961133.5685W
LTP/FTP ELLIPSOIDAL HEIGHT	+03376
FPAP LATITUDE	424531.9600N
FPAP LONGITUDE	0961150.3600W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

B2681980

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03639
FPAP ORTHOMETRIC HEIGHT	+03639

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KLRJK3FR18	AETNOE	010ETNOEK3EA0EE	AR	HF		18500040		+ 04000	18000			A JS	
SUSAP KLRJK3FR18	R	010ETNOEK3EA0E	I	IF				+ 04000	18000			A JS	
SUSAP KLRJK3FR18	R	020CREECK3EA1E	F	051TF		18500063		+ 03000				A JS	
SUSAP KLRJK3FR18	R	020CREECK3EA2WALPV			ALNAV/VNAV ALNAV							JS	
SUSAP KLRJK3FR18	R	021ATUXEK3EA0E	S	031TF		18500035	V	0190001903		-300		A JS	
SUSAP KLRJK3FR18	R	030RW18 K3PGOGY	M	031TF		18500021		01234		-300		A JS	
SUSAP KLRJK3FR18	R	040	0	M	CA	1850		+ 01444				A JS	
SUSAP KLRJK3FR18	R	050JAGBUK3EA0E		DF								A JS	
SUSAP KLRJK3FR18	R	060FEXATK3EA0EY		010TF		1330		+ 04500				A JS	
SUSAP KLRJK3FR18	R	070FEXATK3EA0EE	R	HM		04340050		+ 04500				A JS	

[illegible][illegible]

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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
	ETNOE	ETNOE	010	IAF	HF	R	FO		185.0 (188.0T)	004.0	AA 04000	
		ETNOE	010	FACF	IF		FB				AA 04000	
		CREEC	020	FAF	TF		FB	0.5	185.0 (188.0T)	006.3	AA 03000	
		ATUXE	021	SDF	TF		FB	0.3	185.0 (188.0T)	003.5	AA 01900 GS 01903	
		RW18	030	MAP	TF		FO	0.3	185.0 (188.0T)	002.1	AT 01234	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		185.0 (188.0T)		AA 01444	
	JAGBU	050		DF		FB					
	FEXAT	060		TF		FO	1.0	133.0 (136.0T)		AA 04500	
	FEXAT	070		HM	R	FO		043.4 (046.4T)	005.0	AA 04500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATUXE	N424905.03	W0961109.80	N4249.084	W09611.163
	CREEC	N425229.82	W0961030.75	N4252.497	W09610.513
	ETNOE	N425844.51	W0960919.14	N4258.742	W09609.319
	FEXAT	N423345.91	W0960048.91	N4233.765	W09600.815
	JAGBU	N424238.70	W0961223.28	N4242.645	W09612.388
	RW18	N424700.22	W0961133.57	N4247.004	W09611.560

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	01194	40

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