

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										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		ILS: DA LOC: 4.70 NM AFTER WASEE/I-TQR 6.17 DME/RADAR OR AT I-TQR 1.49 DME												
HINON INT/I-TQR 12.17 DME/RADAR (IAF)				TOLPE/I-TQR 9.17 DME/RADAR				232.63 / 3.00				3000		CLIMB TO 2500 ON MBS VOR/DME R-230 TO KWORD/MBS 6.14 DME/RADAR AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 2300 DIRECT WERDO AND HOLD. (RNAV 1-GPS REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, LT, 050.18 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW WERDO, RT, 052.49 INBOUND. FAS OBST: 809 AAO 433450N/0840049W. CHART VDP AT 2.59 DME* DISTANCE VDP TO THLD 1.12 NM. *LOC ONLY. CHART IN PLANVIEW: WERDO. CHART CIRCLING ICON. CHART PLANVIEW NOTE: RADAR REQUIRED.												
TOLPE/I-TQR 9.17 DME/RADAR (IF)				WASEE/I-TQR 6.17 DME/RADAR				232.63 / 3.00				2200														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. PROFILE STARTS AT TOLPE/I-TQR 9.17 DME/RADAR																										
3. FAC: 232.63 FAF: WASEE/I-TQR 6.17 DME/RADAR DIST FAF TO MAP: 4.70 THLD: 4.70																										
4. MIN. ALT: TOLPE 3000, WASEE 2200																										
5. DIST TO THLD FROM OM: 4.70 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 979																										
6. MIN GS INCPT: 2200 GS ALT AT: WASEE 2170 OM: - MM: - IM: -																										
7. GS ANGLE: 3.00 TCH: 54.5																										
8. MSA FROM: MBS VOR/DME 3100																										
MAG VAR: 7W EPOCH YEAR: 2020																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: 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											
S-ILS 23**	861	2400	200	861	2400	200	861	2400	200	861	2400	200														
S-LOC 23	1060	2400	399	1060	2400	399	1060	3500	399	1060	3500	399														
CIRCLING	1080	1	412	1120	1	452	1240	1 1/2	572	1240	2	572														
NOTES: CHART NOTE: DME OR RADAR REQUIRED. CHART NOTE: **RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.																										
# @ NA WHEN CONTROL TOWER CLOSED.																										
CITY AND STATE SAGINAW, MI				ELEVATION: 668 TDZE: 661 AIRPORT NAME: MBS INTL				FACILITY IDENTIFIER: I-TQR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 23, AMDT 5, 02/01/2018					SUP: AMDT: 4B DATED 04/08/2010											



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