

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: RW28 CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 3100 DIRECT HIRED AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 280.67 INBOUND. CHART FAS OBST: 1339 TREE 415553N/0843447W. 1426 AAO 415513N/0842808W. DISTANCE TO THLD FROM 290 HAT: 0.78 NM. CHART VDP AT 1.11 NM TO RW28* *LNAV ONLY. WAAS CHANNEL # 50134 REFERENCE PATH ID: W28A CHART CIRCLING ICON. LTP HAE: 327 M								
AVIYE (IF/IAF)		UFPUY (TF) (FB) (RNP 1.00)		280.67 / 5.00			2700										
UFPUY (FAF)		GUCYE/1.70 NM TO RW28 (TF) (FB) (RNP 0.30)		280.60 / 2.93													
GUCYE/1.70 NM TO RW28		RW28 (MAP) (TF) (FO) (RNP 0.30)		280.60 / 1.70													
RW28 (MAP)		1700 MSL (CA)					1700										
1700 MSL		HIRED (DF) (FO) (RNP 1.00)					3100										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E AVIYE, RT, 280.67 INBOUND, 3100 FT. IN LIEU OF PT (IAF) 3. FAC: 280.60 FAF: UFPUY DIST FAF TO MAP: 4.63 THLD: 4.63 4. MIN. ALT: AVIYE 3100, UFPUY 2700, GUCYE/1.70 NM TO RW28 1760* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2700 GS ALT AT: UFPUY 2700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 20:1 IS CLEAR 34:1 IS NOT CLEAR 8. MSA FROM: _____										MAG VAR: 7W		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	1474	1	290	1474	1	290	1474	1	290		NA						
LNAV/VNAV DA	1489	1	305	1489	1	305	1489	1	305		NA						
LNAV MDA	1580	1	396	1580	1	396	1580	1 1/8	396		NA						
CIRCLING	1640	1	456	1680	1	496	1680	1 1/2	496		NA						
NOTES: CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C. PBN REQUIREMENT NOTE: RNP APCH.																	
CITY AND STATE		ELEVATION: 1184 TDZE: 1184			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:				
HILLSDALE, MI		AIRPORT NAME:			HILLSDALE MUNI		RNAV (GPS) RWY 28, AMDT 1						AMDT: ORIG-B				
													DATED 03/30/2017				



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
				ROUTINE	
COORDINATED WITH:					
ATA <div></div>	AAT <div></div>	ALPA <div>X</div>	APA <div></div>	AOPA <div>X</div>	NBAA <div>X</div>
OTHER (specify)			<div>X</div> ZOB, TOL APP CON, AMGR		
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
Digitally signed by DEVELOPED BY					
NAME:				FIFO	DATE:
RALPH DUMAR RALPH DUMAR Jan 04, 2018				AJV-5422	11/29/2017
APPROVED BY					
NAME:				FIFO	DATE:
JULIE A. MORGAN MANAGER				AJV-5420	
CHANGES:					
<div>1. CHANGED NOTE "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C." 2. CHANGED MISSED APPROACH INSTRUCTIONS: FROM "CLIMB TO 1700, THEN CLIMBING LEFT TURN TO 6000 DIRECT HIRED AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000" TO "CLIMB TO 1700, THEN CLIMBING LEFT TURN TO 3100 DIRECT HIRED AND HOLD". 3. CHANGED HOLDING FIX HIRED FROM A FIX TO A WAYPOINT. 4. LOWERED LNAV/VNAV DA/HAT FROM 1561/377 TO 1489/305 AND ALL CATS VISIBILITY FROM 1 1/4 TO 1. 5. LOWERED CAT B AND C CIRCLING MDA/HAA FROM 1720/536 TO 1680/496. 6. ADDED "PNB REQUIREMENT NOTE: RNP APCH."</div>					
REASONS:					
<div>1. PER 8260-19H, PARA. 8-6-9S. 2. FIX MAKE-UP FACILITIES AND MRA 6000 REMOVED, ALLOWING LOWER HOLDING ALTITUDE TO MATCH TAA. 3. DME AND INT REMOVED FROM FIX TYPE DUE TO CANCELING OF V 11, V 30, V 45. 4. NEW CONTROLLING OBSTACLE AND OCS SLOPE CHANGED FROM 23.44:1 TO 23.08:1. 5. REMOVED ARTIFICIAL RAISING OF MDA/HAA PREVIOUSLY ADDED TO MAINTAIN THE PUBLISHED ALTITUDE. 6. PER 8260.19H, PARA. 8-9-8B(1).</div>					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
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.

TAA

	FROM	TO	ALT
1.	191/30 CW 011/30 (NOPT)	AVIYE (IF/IAF) (FB)	3100
2.	011/30 CW 191/30	AVIYE (IF/IAF) (FO)	3100



CITY AND STATE HILLSDALE, MI	ELEVATION: 1184	TDZE: 1184	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 1	SUP:
	AIRPORT NAME: HILLSDALE MUNI				AMDT: ORIG-B
					DATED: 03/30/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>					
COORDINATED WITH:					
<div>ATA</div> <div><input type="checkbox"/></div>		<div>AAT</div> <div><input type="checkbox"/></div>		<div>ALPA</div> <div><input type="checkbox"/></div>	
		<div>APA</div> <div><input type="checkbox"/></div>		<div>AOPA</div> <div><input type="checkbox"/></div>	
		<div>NBAA</div> <div><input type="checkbox"/></div>		<div>OTHER (specify)</div> <div><input type="checkbox"/></div>	
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KJYM
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	415515.1660N
LTP/FTP LONGITUDE	0843439.1065W
LTP/FTP ELLIPSOIDAL HEIGHT	+03270
FPAP LATITUDE	415520.6375N
FPAP LONGITUDE	0843638.2365W
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	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 3886863C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03609
FPAP ORTHOMETRIC HEIGHT	+03609

QUALITY
16
CHECKED

CITY AND STATE HILLSDALE, MI	ELEVATION: 1184 AIRPORT NAME: HILLSDALE MUNI	TDZE: 1184 HILLSDALE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 1	SUP:
					AMDT: ORIG-B
					DATED: 03/30/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.		
STRAIGHT-IN AREA		191/30 CW 011/30		AVIYE		1. TOWER (26-000991)		422225.60N/0840410.22W		1987 (1A)		1000		AT113		3100		
						2. TERRAIN		415636.00N/0842636.00W		1244 (1200)				AS1500		2700		
STRAIGHT-IN AREA		011/30 CW 191/30		AVIYE		3. TOWER (26-001476)		422511.00N/0843126.00W		1949 (5D)		1000		AT151		3100		
						2. TERRAIN		415636.00N/0842636.00W		1244 (1200)				AS1500		2700		
INTERMEDIATE		AVIYE (IF/IAF)		UFPUY		4. AAO		415627.00N/0842636.00W		1431 (3E)		500				2000		
						5. TERRAIN		415627.00N/0842636.00W		1231 (1200)				AS1500		2700		
FINAL: LPV		UFPUY		RW28		6. TREE (26-051453)		415511.57N/0843357.73W		1274 (1A)		34:1		MA40		1474/290		
FINAL: LNAV/VNAV		UFPUY		RW28		7. TREE		415550.50N/0843448.50W		1319 (2C)		23.40:1		AC20		1489/305		
FINAL: LNAV		UFPUY		GUCYE/1.70 NM TO RW28		8. AAO		415458.00N/0842947.00W		1390 (2C)		250		RA75 DG45		1760		
FINAL: LNAV STEPDOWN		GUCYE/1.70 NM TO RW28		RW28		9. TREE		415553.00N/0843447.00W		1339 (2C)		250		SA-19		1580		
2. HOLD-IN-LIEU-OF-PT		AVIYE		P-5		10. TOWER (26-000526)		415609.00N/0841815.00W		1544 (5D)		1000		AT556		3100		
						11. TERRAIN		415636.00N/0842636.00W		1244 (1200)				AS1500		2700		
3. MISSED APPROACH	MAP:		DA / DA / RW28		HIRED		6. TREE (26-051453)		415511.57N/0843357.73W		1274 (1A)		ASC				3100	
	ELEV:		1270/1339/1480				12. TOWER (26-001645)		415328.00N/0843853.00W		1562 (5D)		1000				2600	
							13. TERRAIN		415057.00N/0844333.00W		1208 (1200)				AS1500		2700	
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.														
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	456	9. TREE		415553.00N/0843447.00W		1339 (2C)		300		1640		
CATEGORY B		1.5 NM			450		496	14. TOWER (26-000561)		415540.70N/0843809.49W		1362 (1A)		300		1680		
CATEGORY C		1.7 NM			450		496	14. TOWER (26-000561)		415540.70N/0843809.49W		1362 (1A)		300		1680		
CATEGORY D		2.3 NM			550													
CATEGORY E		4.5 NM			550													
5. MINIMUM SAFE ALTITUDES																		
PRIMARY NAVID:																		
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)										
CITY AND STATE		HILLSDALE, MI		ELEVATION: 1184		AIRPORT NAME:		HILLSDALE MUNI		FACILITY		RNAV		PROCEDURE AND AMENDMENT NO:		RNAV (GPS) RWY 28, AMDT 1		
																REGION		
																AGL		

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. CRITICAL TEMPERATURES: CRITICAL LOW :-17C CRITICAL HIGH :+54C ACT :-17C APT ISA :+12.65C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 831 HIGH TEMP 1126. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.31NM CAT B: 1.85NM CAT C: 2.91NM NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS THE SAME KJYM 1184, KJXN 1001 RA = 74.2. LPV: OCS SLOPE: 34:1 LNAV/VNAV: OSC SLOPE: 23.40:1 VGSI DATA: 3.00/40.0 VISUAL PORTION OF FINAL PENETRATIONS: 34:1 1223 T-L TWR (26-025124) 415512.57N/0843424.06W (10.81) 1274 TREE (26-051453) 415511.57N/0843357.73W (3.20) 1212 T-L TWR (26-025114) 415516.58N/0843424.04W (0.50) 100 FT VEGETATION USED PER FPT. CONTINGENCY NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSON COUNTY-REYNOLDS FIELD ALTIMETER SETTING: INCREASE ALL LPV DA TO 1549 FEET AND LNAV/VNAV DA TO 1564 FEET AND ALL CATS VISIBILITY TO 1 1/8 SM; INCREASE ALL MDA 80 FEET, LNAV CAT C VISIBILITY TO 1 3/8 SM. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING JACKSON COUNTY-REYNOLDS FIELD ALTIMETER SETTING. ORDER 8260.3 CHAPTER 2 APPLIED TO 1426 AAO 415513N/0842808W.																													
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																															
ZOB ARTCC LAN FSS TOL APP CON				N W S		OTHER: AWOS-3		SOURCE:KJYM / KJXN																															
				F A A				DISTANCE: 0 / 21.12																															
				A / C				HOURS REMOTE OPERATION: 0/YES / 24/YES																															
SATISFACTORY ON:																				LOCATION: KJYM										ADJUSTMENT: 0 / 75									
4. MONITOR STATUS		PRIMARY NAVAID:																																					
		MONITOR POINT:																																					
		HRS OPTN:		CAT 1																																			
				CAT 3																																			
5. APPROACH & RUNWAY LIGHTING		ALS																																					
		(S) SALS																																					
		MALS																																					
		X		HIRL 10 (PCL), 28 (PCL)																																			
				MIRL																																			
		X		REIL 10 (PCL), 28 (PCL)																																			
				TDZ																																			
				C/LINE																																			
		X		OTHER (SPECIFY) PAPI-4L 10 (PCL), 28 (PCL)																																			
6. RUNWAY MARKINGS		BASIC																																					
		ALL WEATHER																																					
		INSTRUMENT NPI-G 10, 28																																					
7. RUNWAY VISUAL RANGE		APPROACH																																					
		MIDFIELD																																					
		ROLL OUT																																					
8. GLIDE PATH		GP ANGLE: 3.00								ELEV RWY THRESHOLD:1184.2																													
		DISTANCE FROM RWY:								ELEV GP ANTENNA:																													
		THRESHOLD CROSSING HEIGHT:40.0																																					
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD FT. FROM THRESHOLD																																	
				X		ON CENTERLINE FT. FROM CENTERLINE																																	
10. WAIVERS: NONE																																							
PART D - PREPARED BY: RALPH DUMAR										DATE: 11/29/2017																													
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5422																													

