

**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	
AREAL (IF/IAF)	DOOZY (FB)	267.80 / 5.00	2500	LPV: DA LNAV/VNAV: DA LNAV: RW27
DOOZY (FAF)	HODAT/2.10 NM TO RW27 (FB)	267.72 / 2.79		
HODAT/2.10 NM TO RW27	RW27 (MAP) (FO)	267.72 / 2.10		CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3300 DIRECT WHALL AND HOLD.
RW27 (MAP)	1500 MSL	267.72	1500	
1500 MSL	WHALL (FO)		3300	

ADDITIONAL FLIGHT DATA:  
HOLD S, RT, 357.21 INBOUND.  
CHART FAS OBST: 1064 TREE 433811N/0861831W  
DISTANCE TO THLD FROM 324 HAT: 0.94 NM.  
WAAS CHANNEL # 97637  
REFERENCE PATH ID: W27A  
CHART CIRCLING ICON  
LTP HAE: 240.4 M

1. PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
2. HOLD E AREAL, RT, 267.80 INBOUND, 3300 FT. IN LIEU OF PT (IAF)
3. FAC: 267.72 FAF: DOOZY DIST FAF TO MAP: 4.89 THLD: 4.89
4. MIN. ALT: AREAL 3300, DOOZY 2500, HODAT/2.10 NM TO RW27 1600\*
5. DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
6. MIN GS INCPT: 2500 GS ALT AT: DOOZY 2500 OM:        MM:        IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 5W EPOCH YEAR: 2015

**MINIMUMS**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A <input checked="" type="checkbox"/>														
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	1254	1 1/8	342	1254	1 1/8	342		NA			NA				
LNAV/VNAV DA	1236	1 1/8	324	1236	1 1/8	324		NA			NA				
LNAV MDA	1340	1	428	1340	1	428		NA			NA				
CIRCLING	1540	1	624	1780	1 1/4	864		NA			NA				

NOTES:  
CHART NOTE: BARO-VNAV NA WHEN USING FREMONT ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FREMONT ALTIMETER SETTING AND INCREASE ALL DA 64 FT, ALL MDA 80 FT, AND LPV AND LNAV/VNAV VISIBILITY ALL CATS 1/4 MILE.  
(SEE FORM 8260-10)



CITY AND STATE HART/SHELBY, MI	ELEVATION: 916 TDZE: 912 AIRPORT NAME: OCEANA COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, ORIG 10 DECEMBER 2015	SUP: AMDT: NONE
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**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: DME/DME RNP-0.3 NA.  
 CHART NOTE: PROCEDURE NA AT NIGHT.  
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
 CHART NOTE: CIRCLING NA TO RWY 15 AND 33.  
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.  
 CHART PROFILE NOTE: \*LNAV ONLY.

TAA	FROM	TO	ALT
1.	178/30 CW 358/30 (NOPT)	AREAL (IF/IAF) (FB)	3300
2.	358/30 CW 178/30	AREAL (IAF) (FO)	3300



CITY AND STATE <b>HART/SHELBY, MI</b>	ELEVATION: 916 AIRPORT NAME: <b>OCEANA COUNTY</b>	TDZE: 912	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 27, ORIG</b> 10 DECEMBER 2015	SUP:
					AMDT: <b>NONE</b>
					DATED:

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	C04
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	433831.8860N
LTP/FTP LONGITUDE	0861922.6015W
LTP/FTP ELLIPSOIDAL HEIGHT	+02404
FPAP LATITUDE	433820.4525N
FPAP LONGITUDE	0862124.2905W
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	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
<u>CRC REMAINDER</u>	F2D68455

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02749
FPAP ORTHOMETRIC HEIGHT	+02749



CITY AND STATE <b>HART/SHELBY, MI</b>	ELEVATION: 916      TDZE: 912 AIRPORT NAME: <b>OCEANA COUNTY</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 27, ORIG</b> 10 DECEMBER 2015	SUP:
				AMDT: <b>NONE</b>
				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
	AREAL	AREAL	010	IAF	HF	R	FO		267.8 (262.8T)	004.0	AA 03300	
		AREAL	010	FACF	IF		FB				AA 03300	
		DOOZY	020	FAF	TF		FB	0.5	267.8 (262.8T)	005.0	AA 02500	
		HODAT	021	SDF	TF		FB	0.3	267.7 (262.7T)	002.8	AA 01600	GS 01611
		RW27	030	MAP	TF		FO	0.3	267.7 (262.7T)	002.1	AT 00942	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		267.7 (262.7T)		AA 01500	
	WHALL	050		DF	L	FO				AA 03300	
	WHALL	060		HM	R	FO		357.2 (352.2T)	004.0	AA 03300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AREAL	N433947.11	W0860551.83	N4339.785	W08605.864
	DOOZY	N433909.30	W0861241.56	N4339.155	W08612.693
	HODAT	N433847.99	W0861630.49	N4338.800	W08616.508
	WHALL	N432623.24	W0861650.64	N4326.387	W08616.844
	RW27	N433831.89	W0861922.60	N4338.532	W08619.377

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00902	40



CITY AND STATE <b>HART/SHELBY, MI</b>	ELEVATION: <b>916</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) RWY 27, ORIG</b> 10 DECEMBER 2015	SUP:
	AIRPORT NAME: <b>OCEANA COUNTY</b>			AMDT: <b>NONE</b>
				DATED: