

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.

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FOSUP ON V177 NORTH BOUND.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. WHEN VGSI INOP, CIRCLING RWY 24 NA AT NIGHT.

QUALITY
4
CHECKED

CITY AND STATE

TWO HARBORS, MN

ELEVATION: 1073

THRE: 1073

AIRPORT NAME:

RICHARD B HELGESON

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO / AMDT NO / EFFECTIVE DATE:

RNAV (GPS) RWY 6, ORIG

30 JUN 2011

SUP:

AMDT:

NONE

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	KTWM
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	470250.2975N
LTP/FTP LONGITUDE	0914511.1465W
LTP/FTP ELLIPSOIDAL HEIGHT	+02986
FPAP LATITUDE	470331.7800N
FPAP LONGITUDE	0914315.8400W
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	1408
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

7D89ABE7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03271
FPAP ORTHOMETRIC HEIGHT	+03271

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KTWMK3FR06	AFOSUP	010FOSUPK3EA0E	A	IF					18000		A	JS
SUSAP	KTWMK3FR06	AFOSUP	020TARUEK3EA0EE	B	010TF		14040069	+	03100			A	JS
SUSAP	KTWMK3FR06	R	010TARUEK3EA0E	I	IF			+	03100	18000		A	JS
SUSAP	KTWMK3FR06	R	011ZENKUK3EA0E	S	051TF		06100045	+	03100			A	JS
SUSAP	KTWMK3FR06	R	020GIBEYK3EA1E	F	051TF		06110015	+	03000		RW06	K3PGA	JS
SUSAP	KTWMK3FR06	R	020GIBEYK3EA2WALP			N	ALNAV						JS
SUSAP	KTWMK3FR06	R	021WIZNUK3EA0E	S	031TF		06110034	V	0190001909		-300	A	JS
SUSAP	KTWMK3FR06	R	030RW06	K3PGOGY	M	031TF	06120025		01113		-300	A	JS
SUSAP	KTWMK3FR06	R	040		0	M	CA	0612	+	01420		A	JS
SUSAP	KTWMK3FR06	R	050WARILK3EA0EY		DF			+	03000			A	JS
SUSAP	KTWMK3FR06	R	060WARILK3EA0EE	R	HM		24140040	+	03000			A	JS

[illegible][illegible]

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[illegible]

QUALITY
A
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SUP:	
AMDT:	NONE
DATED:	