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Project Name: SBM\_RNAV (GPS) RWY 4, Amdt 3B

Project Reason: ADDED VDP AT 1.14 NM TO RW04 - NO 20: 1 PENETRATIONS. DELETED NOTE, WHEN VGSI INOP, CIRCLING RWY 13/31 NA AT NIGHT - NO 20:1 PENETRATIONS. DELETED ALL BACK UP ALTIMETER NOTES TO INCLUDE ALTERNATE MINIMUMS - CONTINGENCY ALTIMETER INFORMATION LISTED ON THE BACK OF THE 8260-9, KSBM AND KMTW WEATHER SOURCE TRANSMITTED TO WMSR. DELETE NOTE, WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 04 PROCEDURE NA AT NIGHT- NO 20:1 PENETRATIONS. UPDATED HELICOPTER NOTE "FROM" HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA "TO" RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS, NEW CRITERIA WORDING. DELETED NOTE: DME/DME RNP-0.3 NA REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH. REMOVED FAHRENHEIT TEMPS - NO LONGER REQUIRED.

Last Updated By: Deanna Fields

*Digitally signed by*

**DAVID DANNER**

Last Updated At: 2018-11-14 19:06:57.533589

Nov 29, 2018

Status: Verified

!FDC 8/0460 SBM IAP SHEBOYGAN COUNTY MEMORIAL, Sheboygan, WI. RNAV (GPS) RWY 4, AMDT 3A... CHART VDP AT 1.14 NM TO RW04\*. \*LNAV ONLY. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 13/31 NA AT NIGHT. DELETE NOTE: BARO-VNAV NA WHEN USING MANITOWOC ALTIMETER SETTING. DELETE NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANITOWOC ALTIMETER SETTING AND INCREASE ALL DA 67 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/4 MILE. ALTERNATE MINIMUMS: DELETE NA WHEN LOCAL WEATHER NOT AVAILABLE. DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 04 PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: DME/DME RNP-0.3 NA. PBN REQUIREMENTS NOTE: RNP APCH. DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C (-9F) OR ABOVE 54C (130F). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C OR ABOVE 54C. THIS IS RNAV (GPS) RWY 4, AMDT 3B. 1811141906-PERM

QUALITY  
10  
CHECKED

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> SHEBOYGAN COUNTY MEMORIAL	<u>AIRPORT ID</u> KSBM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>AMDT NO.</u> 3B	<u>CITY</u> SHEBOYGAN	<u>STATE</u> WI	<u>AIRPORT ELEVATION</u> 755	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM  
307/30 CW 127/30

TO  
TORRU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>	
1.TOWER (55-001227)	430642.00N/0875550.00W	1849	500	50	5D	1000				AT151	3000	
2.TERRAIN	431439.00N/0881939.00W	1313 (1300)								AS1500	2800	

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM  
127/30 CW 307/30

TO  
TORRU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>	
3.WNDM (55-020143)	434302.59N/0881949.67W	1659	500	50	5D	1000				AT341	3000	
4.TERRAIN	434200.00N/0880521.00W	1283 (1300)								AS1500	2800	

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE

FROM  
TORRU (IF/IAF)

TO  
JAMEK

<u>RNP</u>	<u>DISTANCE</u> 5.91	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.AAO	433709.00N/0875918.00W		1241	164	98	4E	500				AT861 AC98	2700
6.TERRAIN	433709.00N/0875921.00W		1041 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM  
JAMEK

TO  
RW04

<u>RNP</u>	<u>DISTANCE</u> 5.98	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.TREE (KSBM0003)	434547.70N/0875137.36W		767	20	3	1A		34:1				994

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



TO  
RW04

HMAS

## COMPUTATIONS

RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**FINAL: LNAV**

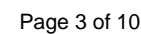
TO  
RW04

**HMAS**

## COMPUTATIONS

RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



HOLD-IN-LIEU OF PT

FROM  
TORRU

TO  
P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.AAO	433942.00N/0880215.00W		1329	164	98	4E	1000				AT671	3000
10.TERRAIN	433945.00N/0880218.00W		1129 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM  
DA

TO  
JADNI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 805					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				3000
11.AAO	435000.00N/0874942.00W		942	164	98	4E	1000					2000
12.TERRAIN	435000.00N/0874942.00W		742 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



QUALITY  
10  
CHECKED

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
CATEGORY A											
13.TL TWR (55-002060)	434449.16N/0875231.06W	1.30	465	901	20	3	1A	300			1220
CATEGORY B											
13.TL TWR (55-002060)	434449.16N/0875231.06W	1.50	465	901	20	3	1A	300			1220
CATEGORY C											
13.TL TWR (55-002060)	434449.16N/0875231.06W	1.70	465	901	20	3	1A	300			1220
CATEGORY D											
14.TWR (KSBMT019)	434432.56N/0874856.05W	2.30	565	915	50	20	2C	300		HAA	1320

CIRCLING REMARKS:

CENTER

RADIUS

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV		
34:1			
792 TREE (55-029022) 434536.91N/0875146.41W (9.70)		794 TREE (55-029366) 434532.42N/0875144.43W (3.23)	
791 TREE (55-029021) 434532.61N/0875142.80W (2.72)		783 TREE (55-029364) 434533.85N/0875140.62W (0.45)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or  
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

AVERAGE HIGH TEMPERATURE BASED ON 5 YEAR HISTORY (2007-2011) AHT = 54 C (130 F).

VEGETATION HEIGHT: 100 FT

LPV: SURFACE 34:1.  
LNAV/VNAV: INNER SURFACE 23.4:1, OUTER SURFACE 34:1.

LPV, LNAV/VNAV AND LNAV INTERMEDIATE SEGMENT OBSTACLES SAME.

CONTINGENCY ALTIMETER  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANITOWOC ALTIMETER SETTING AND INCREASE ALL DA 67 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/4 SM.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MANITOWOC ALTIMETER SETTING.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.47
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	035.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	890
DISTANCE FROM	THLD	TO 1500FT POINT	5.38
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.57
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	035.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	890

THRESHOLD  
COORDINATES  
(IF STR-IN) 434547.41N/0875131.36W

ARP COORDINATES 434611.20N/0875106.20W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP RUNWAY 22 DISTANCE 0.62 NM

FAF  
COORDINATES 434054.01N/0875615.92W

FIX NAME  
COORDINATES

REMARKS



