

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> ROCHESTER INTL	<u>AIRPORT ID</u> KRST	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ROCHESTER	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1317	<u>TDZE</u> 1304	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2005

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
DLANY	IAF	ZUTEL		TF	FB	1.00	247.14	10.34	2900
GABDE	IAF	ZUTEL		TF	FB	1.00	001.97	7.95	2900
EMORE	IAF	ZUTEL		TF	FB	1.00	311.35	6.59	2900
ZUTEL	IF	MINGO		TF	FB	1.00	311.27	6.55	2800
MINGO	FAF	JEDUG/2.33 NM TO RW31		TF	FB	0.30	311.20	2.19	
JEDUG/2.33 NM TO RW31		RW31	MAP	TF	FO	0.30	311.20	2.33	
RW31	MAP	1504 MSL		CA			311.20		
1504 MSL		CORDY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT CORDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT ZUTEL				
3. FAC:	311.20	FAF: MINGO	DIST FAF TO MAP: 4.52	DIST FAF TO THLD: 4.52	
4. MIN ALT:	ZUTEL 2900, MINGO 2800, JEDUG/2.33 NM TO RW31 2100*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.45	GS ANT:
6. MIN GP INCPT: 2800	GP ALT AT FAF : MINGO 2800			OM:	MM: IM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 56.1		
8. MSA FROM:	RW31 3900				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DLANY ON V82-170 EASTBOUND AND V218 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GABDE ON V398-411 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EMORE ON V24 EASTBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500, INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

CHART: ASR.
CHART CIRCLING ICON.
CHART VDP AT 1.01 NM TO RW31*
*LNAV ONLY
WAAS CHANNEL #49028
REFERENCE PATH ID: W31A
CHART FAS OBST: 1373 ANT 435447N/0922902W.
1512 AAO 435036N/0922521W.
HOLD SE, RT, 332.78 INBOUND
LTP HAE: 367.5 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1504	1800	200	1504	1800	200	1504	1800	200	1504	1800	200			
LNAV/VNAV DA	1554	2400	250	1554	2400	250	1554	2400	250	1554	2400	250			
LNAV MDA	1640	2400	336	1640	2400	336	1640	3500	336	1640	3500	336			
CIRCLING	1720	1	403	1780	1	463	1900	1 1/2	583	1900	2	583			



CHANGES - REASONS

FIX CERAK (PFAF) REPLACED WITH FIX MINGO - IAW 8260.19H 4-6-2 B. (1)(2)
INTERMEDIATE SEGMENT DISTANCE CHANGED FROM 6.53 TO 6.55 - FIX CERAK (PFAF) REPLACED WITH FIX MINGO .
FINAL SEGMENT DISTANCE TO MAP/THLD DISTANCE CHANGED FROM 4.54 TO 4.52 - FIX CERAK (PFAF) REPLACED WITH FIX MINGO .
STEPDOWN FIX JEDUG DISTANCE TO RWY 31 CHANGED FROM 1.30 NM TO 2.32 NM AND MINIMUM ALTITUDE CHANGED FROM 1760 TO 2100 - IAW 8260.3D 2-6-4 C. (3)
FINAL APPROACH COURSE CHANGED FROM 311.19 TO 311.20 - UPDATED IPDS COURSE/DISTANCE FORMULA CALCULATIONS.
ADDED CHART VDP AT 1.01 NM TO RW31* TO ADDITIONAL FLIGHT DATA - IAW 8260.19H 8-6-10 N. (2)
ADDED RNP VALUE (1.00) TO MISSED APPROACH DIRECT-TO-FIX LEG IN TERMINAL ROUTES - IAW 8260.19H 4-6-10 F.
CHANGED MISSED APPROACH FROM "CLIMB TO 3000 DIRECT UTAK AND ON TRACK 311 TO CORDY" TO " CLIMB TO 3000 DIRECT CORDY AND HOLD" - FIX UTAK NO LONGER REQUIRED FOR MISSED APPROACH.
ADDED 20:1 IS CLEAR TO LINE 7 ON 8260-3 - IAW 8260.19H 8-6-7 G. (3)
ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19H 8-6-10 T.
LNAV/VNAV DA/HAT CHANGED FROM 1620/316 TO 1554/250 - LOWER CONTROLLING OBSTACLE.
LNAV MDA/HAT CHANGED FROM 1680/376 TO 1640/336 - LOWER CONTROLLING OBSTACLE.
LNAV/VNAV VISIBILITY CHANGED FROM RVR 3200 ALL CATS TO RVR 2400 ALL CATS - IAW 8260.3D TABLE 3-3-1 AND AJV VIS CHK CALCULATOR.
CIRCLING MDA/HAA CHANGED FROM 1780/463 CAT C, 1880/563 CAT D TO 1900/583 CAT C/D - NEW CONTROLLING OBSTACLE (27-000694) CAT C/D.
DELETED CHART NOTE: DME/DME RNP-0.3 NA - NO LONGER REQUIRED BY CRITERIA.
ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H 8-6-8 B. (1)
CRC REMAINDER CHANGED FROM 3C020C1A TO C179B077 - CHANGE IN THRESHOLD COORDINATES.
CHANGED "DIST TO THLD FROM 200 HATH: 0.47" TO "DIST TO THLD FROM 200 HAT: 0.45" - UPDATED CALCULATION.
PROCEDURE TCH CHANGED FROM 51 TO 56.1 - PER AIRNAV DATA.
BARO-VNAV NOTE CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -28C (-18F) OR ABOVE 35C (95F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C - PER 8260.19H 8-6-9 S AND UPDATED WEATHER HISTORY DATA.



<u>AIRPORT</u> ROCHESTER INTL	<u>AIRPORT ID</u> KRST	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ROCHESTER	<u>STATE</u> MN
<u>COORDINATED WITH:</u>					
A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZMP, PNM FSS, RST ATCT, STATE AERO					
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
<u>DEVELOPED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
ROBERT GRIM		AJV-5431	09/07/2018		
<u>APPROVED BY</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
PATRICK MULQUEEN		AJV-5430		MANAGER	



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRST
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	435412.6945N
LTP/FTP LONGITUDE	0922912.1470W
LTP/FTP ELLIPSOIDAL HEIGHT	+03675
FPAP LATITUDE	435512.5400N
FPAP LONGITUDE	0923043.6600W
THRESHOLD CROSSING HEIGHT (TCH)	00056.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	C179B077
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03975
FPAP ORTHOMETRIC HEIGHT	+03975



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
ROCHESTER INTL	KRST	RNAV (GPS) RWY 31	2	ROCHESTER	MN	1317	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM DLANY TO ZUTEL

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	10.34										
<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.AAO	434912.00N/0921815.00W	1565	250	125	4E	1000					2600
2.TERRAIN	434912.00N/0921815.00W	1365 (1400)								AS1500	2900

COMPUTATIONS

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

INITIAL

FROM GABDE TO ZUTEL

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	7.95										
<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.TOWER (27-020458)	433933.59N/0921758.84W	1680	500	50	5D	1000					2700
4.TERRAIN	434118.00N/0921809.00W	1398 (1400)								AS1500	2900

COMPUTATIONS

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



INITIAL

FROM

EMORE

TO

ZUTEL

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	6.59											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.AAO	434312.00N/0921415.00W	1559	250	125	4E	1000					2600	
6.TERRAIN	434312.00N/0921415.00W	1359 (1400)								AS1500	2900	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

INTERMEDIATE

FROM

ZUTEL

TO

MINGO

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	6.55											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.AAO	434603.00N/0922136.00W	1569	250	125	4E	500				AC66 AT665	2800	
8.TERRAIN	434603.00N/0922136.00W	1369 (1400)								AS1000	2400	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



SEGMENT REMARKS:	
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MISSED APPROACH : LPV

FROM

DA

TO

CORDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1336				
<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.TOWER (27-001292)	440550.00N/0924752.90W	1678	50	20	2C	1000					2700
12.TERRAIN	440012.00N/0924327.00W	1346 (1300)								AS1500	2800

COMPUTATIONS

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

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

CORDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1423				
<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.TOWER (27-001292)	440550.00N/0924752.90W	1678	50	20	2C	1000					2700
12.TERRAIN	440012.00N/0924327.00W	1346 (1300)								AS1500	2800

COMPUTATIONS

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



MISSED APPROACH : LNAV

FROM

RW31

TO

CORDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1540				
<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.TOWER (27-001292)	440550.00N/0924752.90W	1678	50	20	2C	1000					2700
12.TERRAIN	440012.00N/0924327.00W	1346 (1300)								AS1500	2800

COMPUTATIONS

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

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
13.TANK (27-026583)	435513.81N/0922844.33W	1.31	403	1419	20	3	1A	300			1720
CATEGORY B											
14.TANK (27-001544)	435211.00N/0922953.00W	1.85	463	1428	50	20	2C	300		HAA	1780
CATEGORY C											
15.TOWER (27-000694)	435050.87N/0922935.63W	2.91	583	1538	250	50	4D	300		AC50	1900
CATEGORY D											
15.TOWER (27-000694)	435050.87N/0922935.63W	3.81	583	1538	250	50	4D	300		AC50	1900

CIRCLING REMARKS:



MSA

CENTER	RADIUS
RW31	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (19-020063)	432832.00N/0924230.00W	200	27.4	2828	500	50	5D	1000			3900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT USED DUE TO AIR TRAFFIC RESTRICTIONS.

PART B: SUPPLEMENTAL DATA
COMMUNICATIONS WITH

RST TOWER, ZMP ARTCC, RST APP CON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	KRST	24	KRST	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW02 - MIRL (PCL), REIL, VASI-4L	NPI-G	
RW20 - MIRL (PCL), REIL, PAPI-4L	NPI-G	
RW13 - TDZ, MALSR (PCL), HIRL (PCL), C/LINE, PAPI-4L	PIR-G	APPROACH
RW31 - TDZ, MALSR (PCL), HIRL (PCL), C/LINE, PAPI-4L	PIR-G	APPROACH

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1304.1	56.1			3.00	54.9

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
ROCHESTER INTL	KRST	RNAV (GPS) RWY 31	2	ROCHESTER	MN	1317	RNAV

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-20C	+54C	-27.66C	-21C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2013-2107).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 971 HIGH TEMP 1134.

"VISUAL PORTION OF FINAL" PENETRATIONS

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.
BACK-UP ALTIMETER NOT REQUIRED, REDUNDANT WEATHER SOURCES AVAILABLE AT AIRPORT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1512 AAO 435036N/0922521W.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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	2.95
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	312.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1310
DISTANCE FROM	THLD	TO 1500FT POINT	10.01
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	312.20
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1369

THRESHOLD
COORDINATES
(IF STR-IN)435412.69N/0922912.15W

ARP COORDINATES435429.80N/0923000.10W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 13 DISTANCE 0.88 NM

FAF
COORDINATES435110.57N/0922434.16W

FIX NAME
COORDINATES

REMARKS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
ROCHESTER INTL	KRST	RNAV (GPS) RWY 31	2	ROCHESTER	MN	1317	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ROBERT GRIM	AJV-5431	09/07/2018	AERONAUTICAL INFORMATION SPECIALIST

