

**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> GREATER BINGHAMTON/EDWIN A LINK FIELD	<u>AIRPORT ID</u> KBGM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> BINGHAMTON	<u>STATE</u> NY
<u>AIRPORT ELEVATION</u> 1636	<u>TDZE</u> 1587	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 12W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 SEPTEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1995

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OXFOR	IAF	IPIPE	NOPT	TF	FB	1.00	232.92	11.92	4200
IPIPE	IF/IAF	FEBUT		TF	FB	1.00	278.76	5.99	3500
FEBUT	FAF	RW28	MAP	TF	FO	0.30	278.65	5.91	
RW28	MAP	1837 MSL		CA			278.65		
1837 MSL		HOXAG		DF	FO	1.00			3900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3900 DIRECT HOXAG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD E IPIPE, RT, 278.76 INBOUND, 4200 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 278.65 **FAF:** FEBUT **DIST FAF TO MAP:** 5.91 **DIST FAF TO THLD:** 5.91
4. **MIN ALT:** IPIPE 4200, FEBUT 3500
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **250 HAT:** 0.69 **GS ANT:**
6. **MIN GP INCPT:** 3500 **GP ALT AT FAF :** FEBUT 3500 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 44.6
8. **MSA FROM:** RW28 3700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OXFOR ON V542 EASTBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 1.20 NM TO RW28*
*LNAV ONLY
WAAS CHANNEL #82120
REFERENCE PATH ID: W28A
CHART FAS OBST: 1729 TREE 421157N/0755648W.
HOLD W, RT, 098.42 INBOUND
LTP HAE: 446.7 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
	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	1837	3/4	250	1837	3/4	250	1837	3/4	250	1837	3/4	250			
LNAV/VNAV DA	2091	1 3/8	504	2091	1 3/8	504	2091	1 3/8	504	2091	1 3/8	504			
LNAV MDA	2000	1	413	2000	1	413	2000	1 1/8	413	2000	1 1/8	413			
CIRCLING	2120	1	484	2120	1	484	2120	1 1/2	484	2200	2	564			



CHANGES - REASONS

1. TERMINAL ROUTES, HNK VOR/DME TO IPIPE FEEDER DELETED - DECOMMISSIONING OF HANCOCK (HNK) VOR/DME.
2. TERMINAL ROUTES, IPIPE TO FEBUT, COURSE CHANGED FROM 278.75 TO 278.76 - PFAF MOVED WITH UPDATED TARGETS EVALUATION.
3. TERMINAL ROUTES, FEBUT TO RW28 (MAP), COURSE CHANGED FROM 278.66 TO 278.65 - PFAF MOVED WITH UPDATED TARGETS EVALUATION, COORDINATES BASED ON 8260.58A PFAF FORMULA.
4. TERMINAL ROUTES, RW28 (MAP) TO 1822 MSL CHANGED TO RW28 (MAP) TO 1837 MSL - THRE TO TDZE, CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
5. TERMINAL ROUTES, 1822 MSL TO HOXAG CHANGED TO 1837 MSL TO HOXAG - THRE TO TDZE, CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
6. PROFILE LINE 2, HIL COURSE CHANGED FROM 278.75 TO 278.76 - TO MATCH INTERMEDIATE COURSE.
7. PROFILE LINE 3, FAC CHANGED FROM 278.66 TO 278.65 - PFAF MOVED WITH UPDATED TARGETS EVALUATION.
8. PROFILE LINE 7, 34:1 CHANGED TO CLEAR AND 20:1 IS CLEAR ADDED - 34:1 PENETRATION CLEARED, IAW 8260.19H PARA 8-6-7G(3).
9. PROFILE LINE 8, MSA ALT CHANGED FROM 3600 TO 3700 - NEW CONTROLLING OBSTACLE.
10. PLANVIEW NOTE DELETED: PROCEDURE NA FOR ARRIVALS ON HNK VOR/DME AIRWAY RADIALS 248 CW 313 - FEEDER ROUTE DELETED.
11. NOTE DELETED: DME/DME RNP-0.3 NA - NOTE REPLACED WITH NEW PBN EQUIPMENT REQUIREMENT NOTE.
12. PBN REQUIREMENTS NOTE ADDED: RNP APCH - PER MEMO 257.
13. FAHRENHEIT TEMPS DELETED FROM NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 33C (91F) - PER 8260.19H 8-6-9S.
14. CRITICAL LOW BARO-VNAV TEMPERATURE CHANGED FROM -18C TO -21C - 5 YEAR TEMPERATURE HISTORY USED.
15. CRITICAL HIGH BARO-VNAV TEMPERATURE CHANGED FROM 33C TO 54C - PER UPDATED TARGETS EVALUATION.
16. NOTE DELETED: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ITHACA ALTIMETER SETTING AND INCREASE ALL DA 138 FEET AND ALL MDA 140 FEET; INCREASE LPV ALL CATS VISIBILITY 1/2 MILE, LNAV/VNAV ALL CATS 5/8 MILE, LNAV CATS C/D VISIBILITY 3/8 MILE AND CIRCLING CATS C/D VISIBILITY 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
17. NOTE DELETED: BARO-VNAV NA WHEN USING ITHACA ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
18. NOTE DELETED: VDP NA WITH ITHACA ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
19. NOTE DELETED: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED - 34:1 PENETRATION CLEARED.
20. LNAV/VNAV MINIMA CHANGED FROM 1 5/8 VIS TO 1 3/8 VIS - NEW VISCHECK EVALUATION.
21. LNAV MINIMA CHANGED FROM 1 1/4 VIS TO 1 1/8 VIS - NEW VISCHECK EVALUATION.
22. FAS DATA: FPAP CHANGED FROM '421215.7900N/0760013.3200W' TO '421215.7800N/0760013.3125W' - PFAF MOVED WITH UPDATED TARGETS EVALUATION.
23. FAS DATA: CRC REMAINDER CHANGED FROM BF5C865C TO 0193E2D8.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZNY, ZBW, BGM TOWER, BGM APP CON, AMGR

FLIGHT CHECKED BY

STEPHEN BAUER

Digitally signed by **OFFICE** **DATE**
WARDELL HENNING FICO 7/29/2020
 Jul 30, 2020

DEVELOPED BY

ANDREA CHANEY **ANDREA J CHANEY**

Digitally signed by **OFFICE** **DATE**
 Jan 31, 2020 **WARDELL HENNING** AJV-A433 11/06/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by **OFFICE** **DATE** **TITLE**
WARDELL HENNING AJV-A430 22
 Jul 30, 2020 MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBGM
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	421221.1445N
LTP/FTP LONGITUDE	0755813.6425W
LTP/FTP ELLIPSOIDAL HEIGHT	+04467
FPAP LATITUDE	421215.7800N
FPAP LONGITUDE	0760013.3125W
THRESHOLD CROSSING HEIGHT (TCH)	00044.6
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
CRC REMAINDER	0193E2D8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04792
FPAP ORTHOMETRIC HEIGHT	+04792

