

**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.

AIRPORT ID CON	PROCEDURE NAME RNAV (GPS) RWY 17	ORIGINAL/AMENDMENT 1A	CITY CONCORD	STATE NH
AIRPORT ELEVATION 342	TDZE 339	SUPERSEDED RNAV (GPS) RWY 17	DATED 06/17/2021	MAG VAR 16W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1995
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CON VOR/DME		INKOW		TF	FO	1.00	003.76	10.88	4400
FABBO	IAF	INKOW	NOPT	TF	FB	1.00	086.53	6.70	4400
YECKA	IAF	INKOW	NOPT	TF	FB	1.00	258.72	9.40	4400
INKOW	IF/IAF	EHFAB		TF	FB	1.00	170.96	6.60	2300
EHFAB	FAF	RW17	MAP	TF	FO	0.30	171.02	6.00	
RW17	MAP	742 MSL		CA			171.02		
742 MSL		INKOW		DF	FO	1.00			4400

MISSED APPROACH

MAP:

LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 4400 DIRECT INKOW AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N INKOW, RT, 170.96 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 171.02 FAF: EHFAB DIST FAF TO MAP: 6.00 DIST FAF TO THLD: 6.00
- MIN ALT: INKOW 4400, EHFAB 2300
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT:
- MIN GP INCPT: GP ALT AT FAF: OM: MM: IM:
- GP ANGLE: 34:1 IS NOT CLEAR 20:1 IS NOT CLEAR TCH:
- MSA FROM: RW17 4200



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CON VOR/DME ON T295 WESTBOUND.
CHART NOTE: STRAIGHT-IN RWY 17 NA AT NIGHT, CIRCLING RWYS 12, 17, 30 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

FAS OBST: 740 AAO 431557N/0713216W.
EHFAB TO RW17: 3.00/50.3.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C, D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LNAV MDA	1000	1	661	1000	1	661	1000	1 7/8	661	1000	1 7/8	661			
CIRCLING	1000	1	658	1080	1	738	1500	3	1158	1500	3	1158			

CHANGES - REASONS

- NOTES: CHANGED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CON VOR/DME AIRWAY RADIALS 037 CW 088" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CON VOR/DME ON T295 WESTBOUND" - VICTOR AIRWAYS CANCELLED, IAW 8260.19J, 8-2-5.E.
- NOTES: REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YECKA ON V322 NORTHBOUND" - V322 AIRWAY CANCELLED.
- PBN REQUIREMENTS - UPDATED FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19J, 8-6-8.B.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA **OTHER:** ZBW, BOS APP CON, NH AERO, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

DAVID DANNER

Jun 18, 2024

DEVELOPED BY

DAVID DANNER (MICHAEL DARDEN)

Digitally signed by

DAVID DANNER

Jun 18, 2024

OFFICE

AJV-A421

DATE

04/01/2024

APPROVED BY

DAVID DANNER

Digitally signed by

DAVID DANNER

Jun 18, 2024

OFFICE

AJV-A421

DATE

09/05/2024

TITLE

MANAGER



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

<u>AIRPORT ID</u> CON	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>AMDT NO.</u> 1A	<u>CITY</u> CONCORD	<u>STATE</u> NH	<u>AIRPORT ELEVATION</u> 342	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> CON VOR/DME	<u>TO</u> INKOW
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<u>RNP</u> 1.00	<u>DISTANCE</u> 10.88	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	432336.00N/0713451.00W	1155	164	98	4E	2000				AT1245	4400
TERRAIN	432336.00N/0713451.00W	954 (1000)								AS1500	2500

COMPUTATIONS

<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:

INITIAL

<u>FROM</u> FABBO	<u>TO</u> INKOW
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<u>RNP</u> 1.00	<u>DISTANCE</u> 6.70	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	432312.00N/0714815.00W	1398	164	98	4E	1000				AT2002	4400
TERRAIN	432357.00N/0714209.00W	1089 (1100)								AS1500	2600

COMPUTATIONS

<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:



AIRPORT ID
CON

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AMDT NO.
1A

CITY
CONCORD

STATE
NH

AIRPORT ELEVATION
342

FACILITY
RNAV

INITIAL

FROM
YECKA

TO
INKOW

RNP
1.00

DISTANCE
9.40

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	432348.00N/0713248.00W	1670	164	98	4E	2000				AT730	4400
TERRAIN	432348.00N/0713248.00W	1469 (1500)								AS1500	3000

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
INKOW (IF/IAF)

TO
EHFAB

RNP
1.00

DISTANCE
6.60

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	432339.00N/0713248.00W	1615	164	98	4E	500				AC98	2300
TERRAIN	432218.00N/0713309.00W	1322 (1300)								AS1000	2300

COMPUTATIONS

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

SEGMENT REMARKS:



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NH

AIRPORT ELEVATION
342

FACILITY
RNAV

FINAL: LNAV

FROM
EHFAB

TO
RW17

RNP
0.30

DISTANCE
6.00

PAT

MAP
RW17

HAT
661

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	431557.12N/0713216.15W	740	50	20	2C	250					1000

COMPUTATIONS

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

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
INKOW

TO

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	433109.00N/0714718.00W	2090	164	98	4E	1000				AT1310	4400
TERRAIN	433109.00N/0714718.00W	1890 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
342

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW17 **TO**
INKOW

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
744

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4400
AAO	432218.00N/0713309.00W	1523	164	98	4E	1000				SA-41	2500
TERRAIN	432215.00N/0713315.00W	1256 (1300)								AS1500	2800

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

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											
TRANSMISSION_LINE (33-022978)	431118.28N/0712814.24W	1.30	658	622	20	3	1A	300		SI	1000
CATEGORY B											
TREE	431040.07N/0712746.75W	1.82	738	779	50	20	2C	300			1080
CATEGORY C											
TOWER (33-000038)	431309.30N/0712623.80W	2.86	1158	1187	20	3	1A	300			1500
CATEGORY D											
TOWER (33-000038)	431309.30N/0712623.80W	3.74	1158	1187	20	3	1A	300			1500

CIRCLING REMARKS:

MSA

CENTER RW17 **RADIUS**
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	432258.74N/0715126.85W	321	18.7	3139	50	20	2C	1000			4200

MSA REMARKS:



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FACILITY
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NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BOS APP CON, BGR FSS

WX SERVICE
ASOS

LOCATION
CON

HRS OPERATION
24

ALTIMETER SOURCE
CON

DISTANCE
0

SERVICE-A
Y

ADJUSTMENTS
0

BACK-UP WX SERVICE
ASOS

LOCATION
MHT

HRS OPERATION
24

ALTIMETER SOURCE
MHT

DISTANCE
16.64

SERVICE-A
Y

ADJUSTMENTS
49

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KCON 342, KMHT 266
RA = 48.9

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW12 - MIRL (PCL)	NPI-G	
RW17 - HIRL (PCL), PAPI-4L	NPI-G	
RW30 - MIRL (PCL)	NPI-G	
RW35 - MALSR (PCL), HIRL (PCL), VASI-4L	PIR-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

3.00

50.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE 641

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 12
20:1	
429 TREE (33-020726) 431230.50N/0713050.30W (4.54)	430 TREE (33-020757) 431229.48N/0713051.69W (1.91)
362 BUILDING (33-020714) 431231.01N/0713032.41W (0.85)	417 TREE (33-020770) 431229.48N/0713048.37W (0.78)



FINAL TYPE	CIRCLING RWY 30	
20:1		
430 TREE (33-020855) 431213.05N/0712921.45W (12.27)	362 TREE (33-020823) 431217.22N/0712937.11W (5.76)	
352 VEGETATION (33-020794) 431217.60N/0712939.11W (3.41)		
FINAL TYPE	LNAV	
20:1		
406 TREE (33-020686) 431237.23N/0713029.43W (6.21)		
FINAL TYPE	LNAV	
34:1		
396 TREE (33-020716) 431235.01N/0713033.99W (23.04)	400 TREE (33-020682) 431236.28N/0713035.65W (22.09)	
397 TREE (33-020697) 431236.86N/0713034.61W (18.48)	398 TREE (33-020653) 431238.27N/0713031.57W (18.46)	
412 TREE (33-020657) 431242.02N/0713036.30W (17.99)	388 TREE (33-020684) 431235.65N/0713028.99W (17.91)	
407 TREE (33-020658) 431241.26N/0713034.35W (16.84)	429 TREE (33-020610) 431249.70N/0713033.65W (16.69)	
393 TREE (33-020696) 431235.95N/0713035.54W (16.08)	383 TREE (33-020699) 431236.33N/0713027.96W (12.02)	
418 TREE (33-020608) 431247.97N/0713033.10W (10.87)	407 TREE (33-020622) 431244.29N/0713032.32W (10.52)	
404 TREE (33-020656) 431242.21N/0713038.89W (7.1)	376 POLE (33-020690) 431235.65N/0713030.74W (4.3)	
415 TREE (33-020612) 431247.83N/0713039.59W (2.28)	407 TREE (33-020645) 431243.51N/0713044.53W (1.41)	
362 BUILDING (33-020714) 431231.01N/0713032.41W (1.3)	413 TREE (33-020611) 431248.77N/0713036.75W (0.36)	
PENETRATIONS REMARKS:		

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

ARP IS A MOUNTAINOUS TERRAIN DEFINING COORDINATE

100 FT TREE USED ON HIGH TERRAIN IAW FPT DIRECTION.

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MHT ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE LNAV AND CIRCLING CAT B VISIBILITY 1/4 SM, LNAV CATS C/D VISIBILITY 1/2 SM.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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RNAV

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	3.67
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	155.02
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	THLD	TO 1500FT POINT	9.40
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	154.96
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD COORDINATES (IF STR-IN) 431223.68N/0713023.93W
ARP COORDINATES 431209.80N/0713008.20W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 35 DISTANCE 0.60 NM
FAF COORDINATES 431750.11N/0713351.80W
FIX NAME COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 641FT, ACTUAL COORDINATES: 431229.42N/0713027.58W

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DAVID DANNER (MICHAEL DARDEN)	AJV-A421	04/01/2024	AERONAUTICAL INFORMATION SPECIALIST

