

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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 ID</u> KTYQ	<u>PROCEDURE NAME</u> ILS OR LOC RWY 36	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> INDIANAPOLIS	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 922	<u>TDZE</u> 922	<u>SUPERSEDED</u> ILS OR LOC RWY 36	<u>ORIGINAL/AMENDMENT</u> 5D	<u>DATED</u> 12/31/2020	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-TYQ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 10/05/2023	<u>CANCEL/SUSPEND</u>		

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>
VHP VORTAC	IAF	YABUD INT					081.38	5.53	3000
YABUD INT	IF	PIPTE INT					002.47	6.10 (I-TYQ)	2700

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.42 NM AFTER PIPTE INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 3000 DIRECT VHP VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT YABUD
3. FAC: 002.47 FAF: PIPTE INT DIST FAF TO MAP: 5.42 DIST FAF TO THLD: 5.42
4. MIN ALT: YABUD INT 3000, PIPTE INT 2700
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 1000
6. MIN GS INCPT: 2700 GS ALT AT PFAF: PIPTE INT 2700 OM: MM: IM:
7. GS ANGLE: 3.00 34:1: 20:1: TCH: 52.5
8. MSA FROM: VHP VORTAC 3100



NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1900.
CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VHP VORTAC AIRWAY RADIALS 037 CW 136.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 076.00 INBOUND.
FAS OBST: 1110 AAO 395736N/0861424W.
CHART 1192 TOWER 395518N/0861525W.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☒

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
S-ILS 36	1199	7/8	277	1199	7/8	277	1199	7/8	277	1199	7/8	277			
S-LOC 36	1400	1	478	1400	1	478	1400	1 3/8	478	1400	1 3/8	478			
CIRCLING	1400	1	478	1400	1	478	1440	1 1/2	518	1480	2	558			

CHANGES - REASONS

1. TERMINAL ROUTES: SEGMENT VHP VORTAC TO YABUD INT CHANGED COURSE FROM 078.41 TO 081.38 AND DISTANCE CHANGED FROM 5.57 TO 5.53 - FIX YABUD MOVED.
2. TERMINAL ROUTES: SEGMENT YABUD INT TO PIPT E INT CHANGED DISTANCE FROM 6.14 TO 6.10 - FIXES YABUD AND PIPT E MOVED.
3. MAP: CHANGED FROM "5.33 NM AFTER PIPT E INT" TO "5.42 NM AFTER PIPT E INT" AND PROFILE LINE 3 DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 5.33 TO 5.42 - FIX PIPT E MOVED AND NEW THRESHOLD LOCATION.
4. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 160 AND ON I-TYQ LOC SOUTH COURSE (182.47) TO PIPT E INT AND HOLD" TO "CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 3000 DIRECT VHP VORTAC AND HOLD" - ATC REQUEST/UMP NDB DECOMMISSIONED.
5. EQUIPMENT REQUIREMENTS NOTES: REMOVED ADF REQUIRED FOR HOLDING - NOT HOLDING AT AN NDB.
6. NOTES: ADDED "RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - 34:1 PENETRATIONS.
7. NOTES: REMOVED "VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - NOW COINCIDENT.
8. NOTES: REMOVED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE INDIANAPOLIS INTL ALTIMETER SETTING AND INCREASE DA TO 1184 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE ALL MDAS 80 FEET AND VISIBILITY CATS C AND D, AND CIRCLING CAT C VISIBILITY 1/4 SM" - UPDATED AND MOVED TO 8260-9 AS A CONTINGENCY NOTE.
9. ADDITIONAL FLIGHT DATA: CHANGED FROM "HOLD S, LT, 002.47 INBOUND" TO "HOLD W, LT, 076.00 INBOUND" - MOVED HOLDING TO VHP VORTAC AND USED EXISTING HOLDING PATTERN PER ATC.
10. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBSTACLE: 1095 POLE 395646N/0861445W" TO "FAS OBST: 1110 AAO 395736N/0861424W." - NEW CONTROLLING OBSTACLE/MAP STUDY.
11. MINIMUMS: S-ILS 36 DA/VIS/HAT ALL CATS CHANGED FROM "1122/3/4/200" TO "1199/7/8/277" - NEW UNMITIGATED PENETRATIONS.
12. MINIMUMS: CIRCLING CAT C MDA/HAA CHANGED FROM 1400/478 TO 1440/518 - NEW CONTROLLING OBSTACLES/CLEAR S T-NOTAM 3/7546.

7/24/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 6/20/2023
10/5/2023 ADDED TO REQUIRED EFFECTIVE DATE.



COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, ZAU, IND APP CON, AMGR

FLIGHT CHECKED BY
PENDING

OFFICE

DATE

DEVELOPED BY
APRIL SARMENTO

Digitally signed by
APRIL T SARMENTO
Jun 09, 2023

Digitally signed by
CASIMIR L TABAKA
Jun 20, 2023

OFFICE
AJV-A432

DATE
05/03/2023

APPROVED BY
CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA
Jun 20, 2023

OFFICE
AJV-A432

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> KTYQ	<u>PROCEDURE NAME</u> ILS OR LOC RWY 36	<u>AMDT NO.</u> 6	<u>CITY</u> INDIANAPOLIS	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 922	<u>FACILITY</u> I-TYQ
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
VHP VORTAC

TO
YABUD INT

<u>RNP</u>	<u>DISTANCE</u> 5.53	<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>
TOWER (18-002546)	394712.06N/0861806.46W		1159	20	3	1A	1000				AT841	3000
TERRAIN	395248.00N/0862242.00W		905 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
YABUD INT

TO
PIPTE INT

<u>RNP</u>	<u>DISTANCE</u> 6.10	<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>
TOWER (18-001444)	395325.00N/0861220.00W		1866	500	50	5D	500				AT334	2700
TERRAIN	395533.00N/0861500.00W		898 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: ILS

FROM
PIPTE INT

TO
RW36

<u>RNP</u>	<u>DISTANCE</u> 5.42	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 277			<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>
TREE (18-072360)	400042.13N/0861510.42W		1004	20	3	1A		34:1			MA22	1199

COMPUTATIONS

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

FINAL: LOC

FROM
PIPTE INT

TO
5.42 NM AFTER PIPTE INT

<u>RNP</u>	<u>DISTANCE</u> 5.42	<u>PAT</u>	<u>MAP</u> 5.42 NM AFTER PIPTE INT	<u>HAT</u> 478			<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>
AAO	395735.66N/0861424.44W		1110	50	20	2C	250				XP40	1400

COMPUTATIONS

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

XP TO MAINTAIN CURRENT MINS



MISSED APPROACH : ILS

FROM

DA

TO

VHP VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 999					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (18-072360)	400042.13N/0861510.42W		1004	20	3	1A		ASC				3000
TOWER (18-000067)	400117.00N/0862409.00W		1254	250	50	4D	1000					2300
TERRAIN	395703.00N/0862506.00W		980 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LOC

FROM

5.42 NM AFTER PIPTE INT

TO

VHP VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1150					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
TOWER (18-000067)	400117.00N/0862409.00W		1254	250	50	4D	1000					2300
TERRAIN	395703.00N/0862506.00W		980 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

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											
TOWER (18-001629)	395959.47N/0861547.72W	1.30	478	1068	20	3	1A	300		SI	1400
CATEGORY B											
9.TOWER (18-001629)	395959.47N/0861547.72W	1.84	478	1068	20	3	1A	300		SI	1400
CATEGORY C											
ANTENNA (18-072314)	400405.77N/0861236.72W	2.89	518	1133	20	10	1B	300			1440
CATEGORY D											
AAO	400454.03N/0861821.00W	3.78	558	1160	50	20	2C	300		HAA	1480

CIRCLING REMARKS:

MSA

CENTER
VHP VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (18-000148)	392427.00N/0860852.00W	156	26.5	2002	250	50	4D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
IND APP CON, HUF FSS

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KTYQ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTYQ	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KIND	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KIND	<u>DISTANCE</u> 18.92	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 61

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KTYQ 922, KIND 797
RA = 60.8

<u>PRIMARY NAVAID</u> I-TYQ	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW18 - HIRL (PCL), REIL (PCL), PAPI-2L		NPI-G	
RW36 - HIRL (PCL), REIL (PCL), PAPI-2L		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 922	<u>TCH</u> 52.5	<u>ELEV GS ANTENNA</u> 914.8	<u>DISTANCE FROM RWY</u> 1000	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 52.5
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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	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	ILS AND LOC		
34:1			
1004 TREE (18-072360) 400042.13N/0861510.42W (9.79)		981 TREE (18-072394) 400046.94N/0861459.88W (0.88)	
989 TREE (18-072537) 400044.14N/0861508.07W (0.72)			

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 - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

CONTINGENCY NOTE:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE INDIANAPOLIS INTL ALTIMETER SETTING AND INCREASE S-ILS 36 DA TO 1260 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND S-LOC 36 VISIBILITY CAT C/D 1/8 SM.

100 FT VEGETATION USED.

I-TYQ NAVAID IS A PRIVATELY OWNED AND MONITORED NAVAID.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1192 TOWER (18-000165) 395518.00N/0861525.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KTYQ	<u>PROCEDURE NAME</u> ILS OR LOC RWY 36	<u>AMDT NO.</u> 6	<u>CITY</u> INDIANAPOLIS	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 922	<u>FACILITY</u> I-TYQ
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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	2.91
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.85
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.82
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.26
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD
COORDINATES
(IF STR-IN)

400108.41N/0861504.64W

ARP COORDINATES

400143.00N/0861505.06W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 36 DISTANCE 0.58 NM

FAF
COORDINATES

395543.08N/0861500.73W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
35
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> APRIL SARMENTO	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/03/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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