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	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
487	479	RNAV (GPS) Z RWY 13R	2A	09/13/2018	3E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV			ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LIPPI	IF	LAURA		TF	FB	1.00	132.52	5.77	1900
LAURA	FAF	RW13R	MAP	TF	FO	0.30	132.59	4.32	
RW13R	MAP	679 MSL		CA			132.59		
679 MSL		ENAVE		DF	FB	1.00			
ENAVE		TACKE		TF	FO	1.00	151.15	14.13	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW13R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ENAVE AND ON TRACK 151.15 TO TACKE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT LIPPI
3. **FAC:** 132.59 **FAF:** LAURA **DIST FAF TO MAP:** 4.32 **DIST FAF TO THLD:** 4.32
4. **MIN ALT:** LIPPI 2500, LAURA 1900
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.49 **GS ANT:**
6. **MIN GP INCPT:** 1900 **GP ALT AT PFAF:** LAURA 1900 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 47.4
8. **MSA FROM:** RW13R 3600

QUALITY 37 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 331.22 INBOUND.
FAS OBST: 676 AAO 325321N/0965439W.
CHART VDP AT 1.41 NM TO RW13R.
WAAS CHANNEL # 82436
REFERENCE PATH ID: W13A
LTP HAE: 118.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 1100-3

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	679	4000	200	679	4000	200	679	4000	200	679	4000	200			
LNAV/VNAV DA	834	5500	355	834	5500	355	834	5500	355	834	5500	355			
LNAV MDA	980	5500	501	980	5500	501	980	1 3/8	501	980	1 3/8	501			
CIRCLING	1080	1	593	1140	1	653	1280	2 1/4	793	1520	3	1033			

CHANGES - REASONS

1. PROFILE LINE 5: CHANGED 200 HAT FROM 0.48 TO 0.49 - ROUND UP FROM 0.4867.
2. PBN REQUIREMENTS NOTE: CHANGED FROM "RNP APCH" TO "RNP APCH - GPS" - PER 8260.19K, PARA 8-6-8D(5)(A).
3. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6°C OR ABOVE 54°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15°C OR ABOVE 54°C" - BASED ON STANDARD -30ºC ISA DEVIATION.
4. CHANGED CHART NOTE FROM "USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS" TO "USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS" - PER CURRENT CRITERIA STANDARDS DOCUMENTATION.
5. ADDITIONAL FLIGHT DATA: REMOVED "*LNAV ONLY" AND "CHART CIRCLING INFO" - NO LONGER REQUIRED.
6. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART VDP AT 1.41 NM TO RW13R*" TO "CHART VDP AT 1.29 NM TO RW13R" - PER 8260.3G VDP FORMULA 2-6-5.
7. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBST: 666 T-L TWR 325440N/0965441W" TO "FAS OBST: 676 AAO 325321N/0965439W" - NEW CONTROLLING OBSTACLE.
8. CHANGED ALTERNATE MINS FROM "STANDARD - CAT D 1100-3" TO "STANDARD - CAT C 800-2 1/4, CAT D 1100-3" - PER 8260.3G UPDATED VIS TABLES.
9. CHANGED LNAV ALL CAT VISIBILITY FROM RVR 6000 TO RVR 5500 - PER 8260.3G UPDATED VIS TABLES.
10. CHANGED CIRCLING CAT C MDA/HAA FROM 1220/733 TO 1280/793 AND VISIBILITY CAT C FROM 2 SM TO 2 1/4 SM - NEW CONTROLLING OBSTACLE AND PER 8260.3G UPDATED VIS TABLES.
11. CRC REMAINDER CHANGED FROM "84AB7BC7" TO "733C1C16" - FPAP COORDINATES CHANGED FROM "324957.4720N/0965030.4575W" TO "324957.4675N/0965030.4615W".
12. INCORPORATED T-NOTAM FDC 5/3067 - REQUIRED IAW 8260.19K, 8-3-4C(3).

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZFW, REGIONAL APP CON, DAL ATCT, DFW ATCT, AMGR

FLIGHT CHECKED BY	OFFICE	DATE

DEVELOPED BY	OFFICE	DATE
CASIMIR L. TABAKA (SILVIA YOUNG)	AJV-A432	09/26/2025

APPROVED BY	OFFICE	DATE	TITLE
CASIMIR L. TABAKA	AJV-A432	04/09/2026	MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDAL
RUNWAY	RW13R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	325101.2840N
LTP/FTP LONGITUDE	0965144.4155W
LTP/FTP ELLIPSOIDAL HEIGHT	+01185
FPAP LATITUDE	324957.4675N
FPAP LONGITUDE	0965030.4615W
THRESHOLD CROSSING HEIGHT (TCH)	00047.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0216
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	733C1C16

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+01452
FPAP ORTHOMETRIC HEIGHT	+01452

QUALITY 37 CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX	487	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM	TO
LIPPI	LAURA

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	5.77				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-003941)	325647.52N/0965923.32W	1016	20	3	1A	500				AT384	1900
TERRAIN	325651.00N/0970148.00W	570 (600)								AS1000	1600

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LPV

FROM	TO
LAURA	RW13R

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.32		DA	200	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				679

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX	487	RNAV

FINAL: LNAV/VNAV

FROM	TO
LAURA	RW13R

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.32		DA	355	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-014766)	325113.15N/0965252.40W	620	250	50	4D	161				AC50 XP3	834

COMPUTATIONS

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

SEGMENT REMARKS:

XP3 TO MAINTAIN CURRENTLY PUBLISHED MINIMUMS.

FINAL: LNAV

FROM	TO
LAURA	RW13R

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.32		RW13R	501	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	325321.00N/0965439.00W	676	215	8	4B	250				XP54	980

COMPUTATIONS

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

SEGMENT REMARKS:

XP54 TO MAINTAIN CURRENTLY PUBLISHED MINS.

QUALITY 37 CHECKED

MISSED APPROACH: LPV

FROM	TO
DA	TACKE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					513

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (48-004928)	324648.00N/0964814.00W	1368	50	3	2A	1000					2400
TERRAIN	323718.00N/0964400.00W	570 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM	TO
DA	TACKE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					673

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (48-004928)	324648.00N/0964814.00W	1368	50	3	2A	1000					2400
TERRAIN	323718.00N/0964400.00W	570 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX	487	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW13R	TACKE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					880

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (48-004928)	324648.00N/0964814.00W	1368	50	3	2A	1000					2400
TERRAIN	323718.00N/0964400.00W	570 (600)								AS1500	2100

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											
BUILDING (48-028166)	324911.62N/0965035.00W	1.30	593	700	20	3	1A	300		XP80	1080
CATEGORY B											
BUILDING (48-031532)	324846.81N/0965010.69W	1.82	653	790	500	50	5D	300		AC50	1140
CATEGORY C											
TOWER (48-012367)	325157.10N/0964750.40W	2.86	793	887	500	50	5D	300		AC50 XP43	1280
CATEGORY D											
BUILDING (48-005563)	324716.78N/0964748.08W	3.74	1033	1203	50	3	2A	300			1520

CIRCLING REMARKS:

CAT A XP80 TO MAINTAIN CURRENTLY PUBLISHED MINIMUMS. XP43 FOR CAT C - A HOTEL IS CURRENTLY BEING BUILT (STUDY 2022-ASW-3979-ASW AMONG MANY OTHER STUDIES). THE PROPONENT FILED A 7460 PART-1 IN OCTOBER 2023 STATING THAT CONSTRUCTION HAS STARTED, BUT THEY HAVE NOT YET FILED A 7460 PART-2 STATING THAT THE BUILDING HAS REACHED ITS GREATEST HEIGHT. ONCE COMPLETE IT WILL BE 970' AMSL AND THE HIGHEST BUILDING IN THE AREA. THERE IS A VALID 2C SURVEY ATTACHED TO THE STUDY, SO ONCE A 7460 PART-2 IS RECEIVED THE BUILDING WILL BE ADDED TO THE OAS WITH A 2C. THE OTHER BUILDINGS IN THE AREA ARE IN THE OAS AS CONSTRUCTED OBSTACLES.

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DAL	RNAV (GPS) Z RWY 13R	2B	DALLAS	TX	487	RNAV

MSA

CENTER	RADIUS
RW13R	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-008489)	323502.67N/0965748.75W	195	16.7	2549	50	20	2C	1000			3600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

REGIONAL APP CON, DAL TOWER, ZFW ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	DAL	24	DAL		Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACKUP ALTIMETER SOURCE NOT UTILIZED. KDAL HAS REDUNDANT WEATHER SOURCING.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW13L - MALSR, C/LINE, TDZ, HIRL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW13R - C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, MIDPOINT
RW31L - MALSR, C/LINE, TDZ, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT
RW31R - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	476.4	47.4			3.00	52.2

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD [X] FT FROM THRESHOLD DISPLACED THRESHOLD DISTANCE 489

ON CENTERLINE [X] FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-15C	+54C	-15C	+14.04C

CRITICAL TEMPERATURE REMARKS:

QUALITY 37 CHECKED

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 961 HIGH TEMP 1268.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100FT VEGETATION USED PER FPT.

PROCEDURE DEVELOPED TO MIRROR EXISTING ILS RWY 13R.

GLIDESLOPE AND TCH BASED ON I-DPX.

BUILDING (2022-ASW-3979-OE) - PROPONENT FILED A 7460 PART-1 IN OCTOBER 2023 STATING THAT CONSTRUCTION HAS STARTED, BUT THEY HAVE NOT YET FILED A 7460 PART-2 STATING THAT THE BUILDING HAS REACHED ITS GREATEST HEIGHT. ONCE COMPLETE IT WILL BE 970' AMSL AND THE HIGHEST BUILDING IN THE AREA. THERE IS A VALID 2C SURVEY ATTACHED TO THE STUDY, SO ONCE A 7460 PART-2 IS RECEIVED THE BUILDING WILL BE ADDED TO THE OAS WITH A 2C.
ORDER 8260.3, 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**	3.07
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	135.59
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	479
DISTANCE FROM	THLD	**TO 1500FT POINT**	9.29
WIDTH OF	INTERMEDIATE	**SEGMENT AT 1500FT POINT**	4.00
TRUE COURSE OF	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	135.52
HIGH TERRAIN IN	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	561

THRESHOLD COORDINATES (IF STR-IN)	325101.28N/0965144.42W
ARP COORDINATES	325045.40N/0965103.16W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 31L DISTANCE 0.81 NM
FAF COORDINATES	325406.93N/0965519.83W
FIX NAME COORDINATES	IF LIPPI 325814.32N/0970007.70W

REMARKS

THLD DISPLACED 489FT, ACTUAL COORDINATES: 325104.74N/0965148.42W

QUALITY 37 CHECKED

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (SILVIA YOUNG)	AJV-A432	09/26/2025	AERONAUTICAL INFORMATION SPECIALIST

QUALITY 37 CHECKED