

**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 ID</u> EWR	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 22L	<u>ORIGINAL/AMENDMENT</u> 3A	<u>CITY</u> NEWARK	<u>STATE</u> NJ
<u>AIRPORT ELEVATION</u> 18	<u>TDZE</u> 10	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 22L	<u>DATED</u> 02/23/2023	<u>MAG VAR</u> 13W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1985
			<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>
PATRN	IAF	IZEKO		TF	FB	1.00	163.41	7.20	3000
IZEKO	IF	GIMEE		TF	FB	1.00	218.90	1.57	2500
GIMEE		ZAVPI		TF	FB	1.00	218.87	1.57	2000
ZAVPI		BUZZD		TF	FB	1.00	218.87	1.57	1500
BUZZD	FAF	RW22L	MAP	TF	FO	0.30	218.86	4.54	
RW22L	MAP	210 MSL		CA			218.86		
210 MSL		TAYCU		DF	FB	1.00			
TAYCU		KILMA		TF	FO	1.00	252.20	8.00	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT TAYCU AND ON TRACK 252.20 TO KILMA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT IZEKO
- FAC: 218.86 FAF: BUZZD DIST FAF TO MAP: 4.54 DIST FAF TO THLD: 4.54
- MIN ALT: IZEKO 3000, GIMEE 2500, ZAVPI 2000, BUZZD 1500
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.49 GS ANT: MM: IM:
- MIN GP INCPT: 1500 GP ALT AT PFAF: BUZZD 1500 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 42.8
- MSA FROM: RW22L 2900



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

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 -11°C OR ABOVE 54°C.
CHART NOTE: CIRCLING NA S OF RWY 11-29.
CHART NOTE: WHEN CIRCLING TO RWY 29 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
CHART NOTE: CAUTION, DEPARTING TEB RWY 24 TRAFFIC CLIMBING TO 1500' MSL.
CHART SPEED ICON IN PLANVIEW AT IZEKO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 072.00 INBOUND.
CHART FAS OBST: 290 STACK (34-000665) 404417N/0740736W.
CHART VDP AT 1.53 NM TO RW22L.
WAAS CHANNEL # 70324
REFERENCE PATH ID: W22A
LTP HAE: -29.1 M
CHART KTEB IN PLANVIEW

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 3/4, CAT D 900-3

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	210	1800	200	210	1800	200	210	1800	200	210	1800	200			
LNAV/VNAV DA	461	4500	451	461	4500	451	461	4500	451	461	4500	451			
LNAV MDA	560	2400	550	560	2400	550	560	6000	550	560	6000	550			
CIRCLING	660	1	642	660	1	642	900	2 3/4	882	900	3	882			

CHANGES - REASONS

- AIRPORT ELEVATION CHANGED FROM 17 TO 18 – NEW SURVEY
- TDZE CHANGED FROM 11 TO 10 – NEW SURVEY
- TERMINAL ROUTES MISSED CA LEG TO POINT CHANGED FROM 211 MSL TO 210 MSL – NEW CA ALTITUDE DUE TO NEW SURVEY AND AIRPORT ELEVATION CHANGING BY 1 FT
- NOTES ADDED “CHART NOTE: CAUTION, DEPARTING TEB RWY 24 TRAFFIC CLIMBING TO 1500' MSL” – PER FPT AND ATC REQUEST, APPROVAL LETTER SUBMITTED IAW 8260.19K 8-6-10K
- NOTES CHANGED FROM “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12°C OR ABOVE 54°C” TO “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C” – NEW 5 YEAR ACT STUDY
- ADDITIONAL FLIGHT DATA REMOVED “CHART 339 TOWER 404512N/0740615W” – NO LONGER REQUIRED, 7:1 OBSTACLES DOCUMENTED ON 8260-9
- ADDITIONAL FLIGHT DATA REMOVED CHART CIRCLING ICON – NO LONGER REQUIRED
- MINIMUMS LPV DA CHANGED FROM 211 TO 210 ALL CATS – AIRPORT & TDZE CHANGED BY 1 FT PER NEW SURVEY, NO CHANGE TO HAT VALUE
- MINIMUMS LNAV/VNAV DA CHANGED FROM 462 TO 461 ALL CATS – AIRPORT & TDZE CHANGED BY 1 FT PER NEW SURVEY, NO CHANGE TO HAT VALUE
- FAS DATA BLOCK CRC REMAINDER CHANGED FROM C53454AA TO 633790E2 – DUE TO TLP/FTP LAT/LONG CHANGING FROM 404152.2970N/0740940.8730W TO 404152.2835N/0740940.8845W AND FPAP LAT/LONG CHANGING FROM 404032.0430N/0741031.8940W TO 404032.0295N/0741031.9045W

10/29/2025: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/14/2025.
ADDED CHART KTEB IN PLANVIEW IN ADDITIONAL FLIGHT DATA.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

EWR ATCT, NY TRACON, ZNY, AMGR

FLIGHT CHECKED BY

MICHAEL W PENDERGRASS

Digitally signed by

CASIMIR L TABAKA

Nov 25, 2025

OFFICE

AJF

DATE

11/21/2025

DEVELOPED BY

CHARLES HIRST

Digitally signed by

CHARLES HIRST

Aug 14, 2025

OFFICE

AJV-A431

DATE

08/14/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Nov 25, 2025

OFFICE

AJV-A431

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEWR
RUNWAY	RW22L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	404152.2835N
LTP/FTP LONGITUDE	0740940.8845W
LTP/FTP ELLIPSOIDAL HEIGHT	-00291
FPAP LATITUDE	404032.0295N
FPAP LONGITUDE	0741031.9045W
THRESHOLD CROSSING HEIGHT (TCH)	00042.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0248
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	633790E2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00031
FPAP ORTHOMETRIC HEIGHT	+00031



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

<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>
EWB	RNAV (GPS) Z RWY 22L	3A	NEWARK	NJ	18	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM **TO**
PATRN IZEKO

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 7.20

<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	405618.00N/0741157.00W	716	215	8	4B	1000				AT1284	3000
TERRAIN	405418.00N/0741027.00W	482 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM **TO**
IZEKO GIMEE

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 1.57

<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 (34-001064)	404753.26N/0740525.76W	676	20	3	1A	500				AT1324	2500
TERRAIN	405009.00N/0740542.00W	134 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
10
CHECKED

INTERMEDIATE: STEPDOWN

FROM

GIMEE

TO

ZAVPI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	1.57										
<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 (34-001064)	404753.26N/0740525.76W	676	20	3	1A	500				AT824	2000
TERRAIN	404909.00N/0740639.00W	124 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

ZAVPI

TO

BUZZD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	1.57										
<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 (34-001063)	404747.86N/0740526.10W	676	20	3	1A	500				AT324	1500
TERRAIN	404648.00N/0740830.00W	154 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

BUZZD

TO

RW22L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.54		DA				200				
<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				210

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

BUZZD

TO

RW22L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.54		DA				451				
<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	404233.00N/0740830.00W	137	215	8	4B		23.01:1			AC8 MA56	461

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM

BUZZD

TO

RW22L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			<u>HECKE</u>
0.30	4.54		RW22L				550				
<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>
STACK (34-000665)	404417.00N/0740736.00W	290	20	20	1C	250				MA20	560

COMPUTATIONS

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

SEGMENT REMARKS:



MISSED APPROACH: LPV

FROM

DA

TO

KILMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30										45	
<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
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

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

DA

TO

KILMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30										300	
<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>
CRANE (34-020016)	404106.56N/0740925.42W	460	500	3	5A		ASC				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV

FROM

RW22L

TO

KILMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											460
<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>
CRANE (34-020016)	404106.56N/0740925.42W	460	500	3	5A		ASC				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

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											
ANTENNA (34-081410)	404230.94N/0741206.28W	1.30	642	360	20	3	1A	300			660
CATEGORY B											
ANTENNA (34-081410)	404230.94N/0741206.28W	1.81	642	360	20	3	1A	300			660
CATEGORY C											
BUILDING (34-000085)	404412.00N/0741015.00W	2.84	882	597	20	3	1A	300			900
CATEGORY D											
BUILDING (34-000085)	404412.00N/0741015.00W	3.70	882	597	20	3	1A	300			900

CIRCLING REMARKS:

MSA

CENTER

RW22L

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	BUILDING (36-020633)	404246.75N/0740047.27W	095	6.8	1806	20	3	1A	1000			2900

MSA REMARKS:



NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

EWR TOWER, NY TRACON

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	EWR	24	EWR		Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

BACK-UP ALTIMETER SOURCE NOT REQUIRED. 24 HOUR CONTROL TOWER HAS REDUNDANT ALTIMETER REPORTING EQUIPMENT.

<u>PRIMARY NAVAID</u>	<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>	
RW29 - C/LINE, REIL, HIRL, TDZ, PAPI-4R	NPI-G		
RW04L - MALSR, TDZ, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW04R - ALSF-2, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW11 - TDZ, C/LINE, REIL, HIRL, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW22L - ALSF-2, C/LINE, TDZ, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW22R - MALSR, C/LINE, HIRL, REIL, TDZ, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	10.3	42.8			3.00	60.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	1794
ON CENTERLINE	X	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-11C	+54C	-11C	+14.97C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 29
20:1	



<u>AIRPORT ID</u> EWR	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 22L	<u>AMDT NO.</u> 3A	<u>CITY</u> NEWARK	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 18	<u>FACILITY</u> RNAV
39 POLE (34-076728) 404205.4300N/0740918.1900W (8)			31 TRAVERSE_WAY (34-081077) 404202.4800N/0740920.4300W (7.29)			
30 TRAVERSE_WAY (34-082913) 404202.0300N/0740920.7300W (7.24)			39 POLE (34-076729) 404206.3100N/0740917.6800W (6.43)			
43 POLE (34-083367) 404205.3700N/0740916.6100W (5.91)			31 TRAVERSE_WAY (34-083261) 404203.3300N/0740919.8900W (5.6)			
30 TRAVERSE_WAY (34-083250) 404202.9000N/0740920.1400W (5.36)			31 TRAVERSE_WAY (34-081284) 404203.7800N/0740919.6000W (4.68)			
38 POLE (34-043930) 404203.5500N/0740917.7300W (4.41)			31 TRAVERSE_WAY (34-082634) 404202.2700N/0740919.5400W (3.79)			
43 POLE (34-044071) 404203.7800N/0740916.2200W (3.71)			39 POLE (34-043587) 404201.7300N/0740917.3100W (2.99)			
31 TRAVERSE_WAY (34-081406) 404202.7200N/0740919.2600W (2.91)			38 POLE (34-043582) 404203.4100N/0740917.3500W (2.89)			
38 POLE (34-043584) 404204.4700N/0740917.2200W (2.85)			30 TRAVERSE_WAY (34-082259) 404204.2000N/0740919.3300W (2.83)			
40 POLE (34-043592) 404202.6600N/0740916.8500W (2.64)			35 POLE (34-083368) 404202.5300N/0740918.1200W (2.45)			
32 TRAVERSE_WAY (34-081434) 404203.6100N/0740918.7400W (2.31)			34 POLE (34-023881) 404205.4000N/0740918.0000W (2.26)			
34 POLE (34-043905) 404205.3500N/0740918.0000W (2.23)			29 POLE (34-023894) 404203.6000N/0740919.5000W (2.22)			
31 TRAVERSE_WAY (34-082963) 404203.1500N/0740919.0200W (2.18)			28 POLE (34-023915) 404203.1000N/0740919.8000W (2.15)			
27 POLE (34-023917) 404202.7000N/0740920.1000W (2.12)			32 TRAVERSE_WAY (34-081368) 404201.8000N/0740918.8900W (2.08)			
21 TERRAIN (34-043533) 404202.0700N/0740921.7000W (1.98)			28 POLE (34-023916) 404202.6000N/0740919.8000W (1.93)			
25 POLE (34-043531) 404201.8000N/0740920.6400W (1.8)			26 POLE (34-023919) 404202.3000N/0740920.3000W (1.71)			
28 POLE (34-026172) 404203.3500N/0740919.6400W (1.64)			30 POLE (34-023889) 404204.3000N/0740919.0000W (1.61)			
29 POLE (34-023890) 404203.9000N/0740919.3000W (1.58)			22 FENCE (34-055567) 404202.1300N/0740921.3100W (1.51)			
31 POLE (34-023888) 404204.4000N/0740918.7000W (1.5)			38 POLE (34-043588) 404205.3100N/0740916.7700W (1.5)			
27 POLE (34-023897) 404202.9000N/0740919.9000W (1.44)			26 POLE (34-023918) 404202.5000N/0740920.2000W (1.42)			
31 POLE (34-023884) 404205.0000N/0740918.6000W (1.38)			32 TRAVERSE_WAY (34-081316) 404202.1800N/0740918.6600W (1.37)			
43 POLE (34-043350) 404202.2100N/0740915.7700W (1.3)			32 POLE (34-023880) 404205.7000N/0740918.2000W (1.16)			
30 POLE (34-023892) 404204.1000N/0740918.9000W (1.14)			29 POLE (34-023891) 404203.7000N/0740919.2000W (1.11)			
25 POLE (34-026037) 404202.1600N/0740920.4100W (1.07)			29 TRAVERSE_WAY (34-081061) 404204.6400N/0740919.0700W (1.03)			
30 POLE (34-023886) 404204.7000N/0740918.8000W (1.02)			25 POLE (34-023900) 404202.1000N/0740920.4000W (1.01)			
30 TRAVERSE_WAY (34-082956) 404205.2000N/0740918.7200W (0.93)			31 POLE (34-023883) 404205.4000N/0740918.4000W (0.79)			
34 POLE (34-043910) 404206.2500N/0740917.5200W (0.79)			32 TRAVERSE_WAY (34-081794) 404204.4800N/0740918.2300W (0.73)			
28 POLE (34-023893) 404203.3000N/0740919.4000W (0.7)			43 POLE (34-058373) 404201.3300N/0740915.7100W (0.68)			
32 POLE (34-043861) 404201.7300N/0740918.5200W (0.63)			39 POLE (34-083373) 404202.9200N/0740916.5500W (0.6)			
27 POLE (34-023895) 404203.4000N/0740919.6000W (0.51)			21 TRAVERSE_WAY (34-044611) 404202.4000N/0740921.2600W (0.44)			
31 TRAVERSE_WAY (34-025755) 404204.0600N/0740918.4600W (0.43)			29 POLE (34-043849) 404204.0600N/0740918.9600W (0.35)			
27 POLE (34-023896) 404203.0000N/0740919.6000W (0.34)			37 POLE (34-043590) 404204.3600N/0740916.8300W (0.31)			QUALITY 10 CHECKED
31 TRAVERSE_WAY (34-082138) 404206.1100N/0740918.1900W (0.3)			24 POLE (34-044613) 404201.9700N/0740920.4900W (0.3)			
33 POLE (34-043927) 404202.5000N/0740918.0800W (0.29)			21 TERRAIN (34-055569) 404202.9000N/0740921.1600W (0.28)			
17 FENCE (34-043530) 404202.4000N/0740922.2600W (0.28)			22 FENCE (34-026033) 404202.7700N/0740920.9000W (0.22)			
19 FENCE (34-020588) 404204.4300N/0740921.4900W (0.22)			30 TRAVERSE_WAY (34-082884) 404205.6600N/0740918.4600W (0.14)			

<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>
EWB	RNAV (GPS) Z RWY 22L	3A	NEWARK	NJ	18	RNAV
38 POLE (34-044069) 404206.1600N/0740916.3100W (0.11)			32 POLE (34-055287) 404202.0900N/0740918.3200W (0.03)			
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT DEVELOPED PER ATC REQUEST.

VEGETATION HEIGHT OF 100 FT USED PER FPT.

WAIVER: 8260.58 TABLE 1-3-1 TCH REQUIREMENTS WHEEL HEIGHT GROUP 4 MINIMUM TCH VALUE 45 FEET. (PREVIOUSLY APPROVED, REFERENCE ONLY)

WAIVER: 8260.58 PARA 1-3-1C: ATC TURNS TO JOIN INITIAL AND INTERMEDIATE SEGMENT MUST BE A TF THAT ACCOMMODATES A 90 DEGREE INTERCEPT ANGLE. INTERMEDIATE SEGMENT ARGOJ TO GIMEE MAX TURN 65 DEGREES. (PREVIOUSLY APPROVED, REFERENCE ONLY)

WAIVER: 8260.3 PARA 2-5-3 D DECENT GRADIENTS. (PREVIOUSLY APPROVED, REFERENCE ONLY)

WAIVER: 8260.3 PARA 3.3.2 C (4)(B) IF THE OBSTACLE IS UNLIGHTED, ANNOTATE THE CHART TO DENY THE APPROACH OR THE APPLICABLE MINIMUMS AT NIGHT (PREVIOUSLY APPROVED, REFERENCE ONLY)

APPROVAL: 8260.19K PARA 8-6-10.B. PUBLISH CHART NOTE PROVIDING TRAFFIC ADVISORY SERVICE
ORDER 8260.3 CHAPTER 2 APPLIED TO 384 AAO 404530.00N/0740521.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> EWR	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 22L	<u>AMDT NO.</u> 3A	<u>CITY</u> NEWARK	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 18	<u>FACILITY</u> RNAV
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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	3.29
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	205.86
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	5.71
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	3.38
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	205.87
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN)

404152.28N/0740940.88W

ARP COORDINATES

404132.93N/0741007.28W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 4L DISTANCE 1.14 NM

FAF COORDINATES

404557.75N/0740704.58W

FIX NAME COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

THLD DISPLACED 1794FT, ACTUAL COORDINATES: 404208.24N/0740930.74W

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CHARLES HIRST	AJV-A431	08/14/2025	AERONAUTICAL INFORMATION SPECIALIST

