

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
KAYLN	THREE	KAYLN3.KAYLN	TWO	8/15/2019	16 May 2024
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:
DETROIT METRO WAYNE COUNTY (KDTW):

TAKEOFF RWY 3L: CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 348.88 TO SHEVY, THEN ON TRACK 315.00 TO CROSS BUIKK AT OR BELOW 7000, THEN ON TRACK 273.76 TO CROSS DDOGE AT OR BELOW 9000, THEN ON TRACK 273.67 TO MTRCT, THENCE...

TAKEOFF RWY 3R: CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 349.31 TO SHEVY, THEN ON TRACK 315.00 TO CROSS BUIKK AT OR BELOW 7000, THEN ON TRACK 273.76 TO CROSS DDOGE AT OR BELOW 9000, THEN ON TRACK 273.67 TO MTRCT, THENCE...

TAKEOFF RWY 4L: CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 357.27 TO SHEVY, THEN ON TRACK 315.00 TO CROSS BUIKK AT OR BELOW 7000, THEN ON TRACK 273.76 TO CROSS DDOGE AT OR BELOW 9000, THEN ON TRACK 273.67 TO MTRCT, THENCE...

TAKEOFF RWY 4R: CLIMB ON HEADING 035.70 TO INTERCEPT COURSE 352.32 TO SHEVY, THEN ON TRACK 315.00 TO CROSS BUIKK AT OR BELOW 7000, THEN ON TRACK 273.76 TO CROSS DDOGE AT OR BELOW 9000, THEN ON TRACK 273.67 TO MTRCT, THENCE...

TAKEOFF RWY 21L: CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 242.73 TO CROSS SAAMS AT OR BELOW 7000, THEN ON TRACK 313.00 TO CROSS BSLNE AT OR BELOW 9000, THEN ON TRACK 312.87 TO FDRCH, THEN ON TRACK 312.79 TO MTRCT, THENCE...

TAKEOFF RWY 21R: CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 240.34 TO CROSS SAAMS AT OR BELOW 7000, THEN ON TRACK 313.00 TO CROSS BSLNE AT OR BELOW 9000, THEN ON TRACK 312.87 TO FDRCH, THEN ON TRACK 312.79 TO MTRCT, THENCE...

TAKEOFF RWY 22L: CLIMB ON HEADING 215.71 TO INTERCEPT COURSE 239.20 TO CROSS SAAMS AT OR BELOW 7000, THEN ON TRACK 313.00 TO CROSS BSLNE AT OR BELOW 9000, THEN ON TRACK 312.87 TO FDRCH, THEN ON TRACK 312.79 TO MTRCT, THENCE...

TAKEOFF RWY 22R: CLIMB ON HEADING 215.69 TO INTERCEPT COURSE 237.67 TO CROSS SAAMS AT OR BELOW 7000, THEN ON TRACK 313.00 TO CROSS BSLNE AT OR BELOW 9000, THEN ON TRACK 312.87 TO FDRCH, THEN ON TRACK 312.79 TO MTRCT, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 275.73 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

TAKEOFF RWY 27R: CLIMB ON HEADING 275.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

...ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

WILLOW RUN (KYIP):

TAKEOFF RWY 5: CLIMB ON HEADING 052.70 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

TAKEOFF RWY 9: CLIMB ON HEADING 094.55 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

TAKEOFF RWY 23: CLIMB ON HEADING 232.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

TAKEOFF RWY 27: CLIMB ON HEADING 274.56 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO MTRCT, THENCE...

...ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ANN ARBOR MUNI (KARB):

TAKEOFF RWY 6: CLIMB ON HEADING 059.53 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 24: CLIMB ON HEADING 239.53 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

COLEMAN A YOUNG MUNI (KDET):

TAKEOFF RWY 15: CLIMB ON HEADING 148.32 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 33: CLIMB ON HEADING 328.33 TO 1800 THEN AS ASSIGNED BY ATC, THENCE...



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...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CUSTER (KTTF):

TAKEOFF RWY 3: CLIMB ON HEADING 027.49 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 21: CLIMB ON HEADING 207.50 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

GROSSE ILE MUNI (KONZ):

TAKEOFF RWY 4: CLIMB ON HEADING 037.34 TO 1200 THEN AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 17: CLIMB ON HEADING 173.78 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 22: CLIMB ON HEADING 217.34 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 35: CLIMB ON HEADING 005.78 TO 1800 THEN AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

LIVINGSTON COUNTY SPENCER J HARDY (KOZW):

TAKEOFF RWY 13: CLIMB ON HEADING 132.35 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 31: CLIMB ON HEADING 312.36 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

OAKLAND COUNTY INTL (KPTK):

TAKEOFF RWY 9L: CLIMB ON HEADING 094.66 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 9R: CLIMB ON HEADING 094.63 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 27L: CLIMB ON HEADING 274.65 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 27R: CLIMB ON HEADING 274.68 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

OAKLAND/TROY (KVLL):

TAKEOFF RWY 10: CLIMB ON HEADING 095.71 TO 1400 THEN AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 28: CLIMB ON HEADING 275.72 TO 1500 THEN AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

SELFRIDGE ANGB (KMTX):

TAKEOFF RWY 1: CLIMB ON HEADING 007.47 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 19: CLIMB ON HEADING 187.47 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO MTRCT, THEN ON TRACK 279.12 TO KAYLN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):



DP NAME		NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE		
KAYLN		THREE	KAYLN3.KAYLN	TWO	8/15/2019	16 May 2024		
TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
SMUUV	KAYLN3.SMUUV	KAYLN	IIICE	TRACK 278.92	14.90	8000	3000	
		IIICE	SMUUV	TRACK 278.70	51.86	8000	2600	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:**NOTE:** TURBO JET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.**TAKEOFF MINIMUMS:****DETROIT METRO WAYNE COUNTY (KDTW):****RWY 27L, 27R:** STANDARD.**RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R:** STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1146.**WILLOW RUN (KYIP):****RWY 23:** STANDARD.**RWY 5, 9:** STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1220.**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 209 FT/NM TO 1000.**ANN ARBOR MUNI (KARB):****RWY 12, 30:** NA - ENVIRONMENTAL.**RWY 6, 24:** STANDARD.**COLEMAN A YOUNG MUNI (KDET):****RWY 15, 33:** STANDARD.**CUSTER (KTTF):****RWY 3, 21:** STANDARD.**GROSSE ILE MUNI (KONZ):****RWY 4, 17, 22:** STANDARD.**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1100.**LIVINGSTON COUNTY SPENCER J HARDY (KOZW):****RWY 13, 31:** STANDARD.**OAKLAND COUNTY INTL (KPTK):****RWY 18, 36:** NA - ENVIRONMENTAL.**RWY 9L, 9R, 27L, 27R:** STANDARD.**OAKLAND/TROY (KVLL):****RWY 10:** STANDARD.**RWY 28:** STANDARD WITH MINIMUM CLIMB OF 476 FT/NM TO 1500.

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SELFRIDGE ANGB (KMTC):

RWY 1: STANDARD.

RWY 19: STANDARD WITH MINIMUM CLIMB OF 235 FT/NM TO 1500.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

WILLOW RUN (KYIP):

RWY 27: 903 FT MSL TOWER 421431.80N/0833411.49W.

COLEMAN A YOUNG MUNI (KDET):

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 33: 1749 FT MSL TOWER 422653.00N/0831023.00W.

GROSSE ILE MUNI (KONZ):

RWY 35: 1146 FT MSL STACK 420718.61N/0831050.62W.

OAKLAND/TROY (KVLL):

RWY 28: 905 FT MSL BUILDING 423232.54N/0831234.07W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 10, 28: 1724 FT MSL TOWER 422858.46N/0831218.94W.

SELFRIDGE ANGB (KMTC):

RWY 19: 1246 FT MSL TOWER 423312.00N/0825315.00W.

MSA:

KDTW: MSA FROM KDTW, 2800.

KYIP: MSA FROM KYIP, 3000.

KARB: MSA FROM KARB, 3000.

KDET: MSA FROM KDET, 2800.

KTTF: MSA FROM KTTF, 3100.

KONZ: MSA FROM KONZ, 3100.

KOZW: MSA FROM KOZW, 3000.

KPTK: MSA FROM KPTK, 2900.

KVLL: MSA FROM KVLL, 2900.

KMTC: MSA FROM KMTC, 2800.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)

AIRPORT MV: DTW (P) 7W/2020, ARB 5W/1985, DET 5W/1980, MTC 6W/1985, ONZ 7W/2010, OZW 5W/1990, PTK 7W/2020, TTF 5W/1980, VLL 6W/1995, YIP 6W/1995.

DETROIT METRO WAYNE COUNTY - CHART: TOP ALTITUDE: 17000.

ALL OTHER AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KDTW	DETROIT	MI
KYIP	DETROIT	MI
KARB	ANN ARBOR	MI

QUALITY
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NFDD NO. 064

04/02/2024

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KDET	DETROIT	MI
KTTF	MONROE	MI
KONZ	DETROIT/GROSSE ILE	MI
KOZW	HOWELL	MI
KPTK	PONTIAC	MI
KVLL	TROY	MI
KMTC	MOUNT CLEMENS	MI

COMMUNICATIONS:

CHART: ATIS, AWOS/ASOS, CLNC DEL, GND CON, TWR, CTAF, CPDLC.

FIXES AND/OR NAVAIDS:

REMARKS:

1. 100 FT MAXIMUM VEGETATION HEIGHT UTILIZED PER FPT CHECKLIST.

2. WAIVER ON FILE: TO NOT CHART MINIMUM CROSSING ALTITUDE AT IF FOR RADAR VECTORS.

3. WAIVER ON FILE: AFS-420 MEMORANDUM "WAIVER TO FAA ORDER 8260.58C PARAGRAPH 1-2-5.C.(3), MAXIMUM BANK ANGLE" DATED 01/31/2023 - 16 DEGREE BANK ANGLE APPLIED AT KAYLN; REQUIRED FOR KDET, KTTF, KONZ, KVLL AND KMTC.

4. CHANGES TO THIS PROCEDURE MUST BE COORDINATED WITH NAVCANADA, AERONAUTICAL INFORMATION MANAGEMENT (AIM), AIMDATA@NAVCANADA.CA (CURRENT POC IS CHARLES SIMARD, 613-248-3819, SIMACHA@NAVCANADA.CA).

5. KDTW CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP.

6. KDTW RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO SIMULTANEOUS DEPARTURES.

7. KYIP RWY 5, 9 DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO KDTW AIR TRAFFIC FLOW.

8. MEA BASED ON LOWEST DME/DME COVERAGE.

FLIGHT INSPECTED BY	SIGNATURE	OFFICE	DATE	
SCOTT WIEBE	Digitally signed by CASIMIR L TABAKA	FPO	03/08/2024	
DEVELOPED BY	SIGNATURE	OFFICE	DATE	
APRIL SARMENTO	Digitally signed by APRIL T SARMENTO	AJV-A432	11/15/2023	
APPROVED BY	SIGNATURE	OFFICE	DATE	TITLE
CASIMIR TABAKA	Digitally signed by CASIMIR L TABAKA	AJV-A432		MANAGER
REQUIRED EFFECTIVE DATE				
ROUTINE	Jan 26, 2024			
COORDINATED WITH:				

FAA Form 8260-15B (03/23) Supersedes Previous Edition

Electronic Version

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☒ **A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☒ **NBAA** **OTHER:**ZOB, DTW APP CON, AMGR(S)

CHANGES - REASONS:

1. AIRPORT NAME, CHANGED ALL KDTW AIRPORT NAME REFERENCES FROM DETROIT METROPOLITAN WAYNE COUNTY TO DETROIT METRO WAYNE COUNTY - OFFICIAL NASR NAME.
2. DELETED ALL CYQG DATA FROM DP ROUTE DESCRIPTION, TAKEOFF MINIMUMS, AND AIRPORTS SERVED - AIRPORT REMOVED FROM SID PER NAVCANADA REQUEST.
3. DELETED KYIP RWY 5L, 23R REFERENCES AND CHANGED RUNWAY NUMBERS FROM RWY 5R TO RWY 5 AND FROM RWY 23L TO RWY 23 IN DP ROUTE DESCRIPTION AND TAKEOFF MINIMUMS - RUNWAY 5L, 23R DECOMMISSIONED AND RWY 5R, 23L RENUMBERED ON 10/06/2022.
4. DELETED KDET RWY 7, 25 REFERENCES IN DP ROUTE DESCRIPTION, TAKEOFF MINIMUMS AND RWY 25 CONTROLLING OBSTACLE - RUNWAY IS GOING TO BE DECOMMISSIONED.
5. CHANGED KVLL RWYS FROM RWY 9, 27 TO RWY 10, 28 - RUNWAYS WERE RENUMBERED ON 02/10/2021.
6. DP ROUTE DESCRIPTION, ALL RUNWAY TRANSITIONS, DELETED FIX MTRCT MINIMUM CROSSING ALTITUDE AND CHANGED VERBIAGE FROM "TO CROSS MTRCT AT OR ABOVE 4000" TO "TO MTRCT" - CROSSING ALTITUDE REMOVED PER ATC REQUEST AND WAIVER ON FILE TO NOT CHART IF ALTITUDE AT IF FIX FOR RADAR VECTORS.
7. DP ROUTE DESCRIPTION, CHANGED KDTW RWY 4L, FROM "CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 357.27 TO SHEVY" TO "CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 357.27 TO SHEVY" - UPDATED EVALUATION.
8. DP ROUTE DESCRIPTION, CHANGED KDTW RWY 27L FROM "CLIMB ON HEADING 275.73 TO 1146, THEN ON HEADING 275.71 OR AS ASSIGNED FOR RADAR VECTORS" TO "CLIMB ON HEADING 275.73 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS" - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENTS CHANGED FROM VA-VM LEGS TO VM LEG; VERBIAGE IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
9. DP ROUTE DESCRIPTION, CHANGED KDTW RWY 27R FROM "CLIMB ON HEADING 275.72 TO 1146, THEN ON HEADING 275.70 OR AS ASSIGNED FOR RADAR VECTORS" TO "CLIMB ON HEADING 275.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS" - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENTS CHANGED FROM VA-VM LEGS TO VM LEG; VERBIAGE IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
10. DP ROUTE DESCRIPTION, DELETED KDTW TOP ALTITUDE VERBIAGE "OR AS ASSIGNED BY ATC" - KDTW HAS A NUMERIC TOP ALTITUDE 17000 CHARTED FOR ALL RUNWAYS.
11. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 5 FROM "CLIMB ON HEADING 053.71 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO" TO "CLIMB ON HEADING 052.70 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS" - CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG; IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
12. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 9 FROM "CLIMB ON HEADING 095.55 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO" TO "CLIMB ON HEADING 094.55 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO" - CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG; IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
13. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 23 FROM "CLIMB ON HEADING 233.72 TO 1220, THEN ON HEADING 233.70 FOR RADAR VECTORS TO" TO "CLIMB ON HEADING 232.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO" - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENT CHANGED FROM VA-VM TO VM LEG; CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG; VERBIAGE IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
14. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 27 FROM "CLIMB ON HEADING 275.57 TO 1220, THEN ON HEADING 275.56 FOR RADAR VECTORS TO" TO "CLIMB ON HEADING 274.56 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO" - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENT CHANGED FROM VA-VM TO VM LEG; CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG; VERBIAGE IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.C.(7).
15. DP ROUTE DESCRIPTION, KARB, KDET, KONZ, KOZW, KTTF, KPTK, KVLL AND KMTC, CHANGED ATC ASSIGNED HEADING VERBIAGE FROM "OR AS ASSIGNED" TO "OR AS ASSIGNED BY ATC", MOVED "FOR RADAR VECTORS" FROM THE INDIVIDUAL RUNWAY DESCRIPTIONS TO THE SHARED ROUTE DESCRIPTIONS - UPDATED VERBIAGE AND DETAILED TEXTUAL ROUTE DESCRIPTION/ALIGNED WITH 8260.46 APPENDIX E.
16. TRANSITION ROUTES, LOWERED MEA FROM 10000 TO 8000 - LOWEST USABLE NAVAID RECEPTION.
17. TRANSITION ROUTES, ADDED MOCAS - MOCA REQUIRED IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.D.(8).
18. MOVED PBN NAV SPEC/SENSORS FROM PROCEDURAL DATA NOTES TO PBN REQUIREMENT NOTES AND UPDATED VERBIAGE FROM "NOTE: RNAV 1" AND "NOTE: DME/DME/IRU OR GPS REQUIRED" TO "RNAV 1 - DME/DME/IRU OR GPS" - IAW 8260.46J, 2-1-1.F.(6).(C).1.
19. MOVED "NOTE: RADAR REQUIRED" FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES AND DELETED "NOTE:" - NEW DOCUMENTATION FORMAT.
20. PROCEDURAL DATA NOTES, DELETED "NOTE: KDTW/KYIP DEPARTURES: IF UNABLE TO ACCEPT 500 FT PER NM CLIMB RATE, ADVISE CLEARANCE DELIVERY ON INITIAL CONTACT" AND MOVED "NOTE: KDTW DEPARTURES: SEE ADDITIONAL REQUIREMENTS IN RNAV DEPARTURE AAUP" TO REMARKS - REDUNDANT/IAW 8260.46J, APPENDIX E, 2.Q.
21. TAKEOFF MINIMUMS, CHANGED ALL CLIMB GRADIENT FORMATS FROM "FT PER NM" TO "FT/NM" - NEW FORMAT.
22. TAKEOFF MINIMUMS, CHANGED KDTW RWY 27L AND 27R FROM "500 FT PER NM TO 1146" TO "STANDARD" - EARLY TURN AND LNAV ENGAGEMENT CG NOT REQUIRED; LOWERED TO OBSTACLE-BASED CG.
23. TAKEOFF MINIMUMS, CHANGED KYIP RWY 23 FROM "500 FT PER NM TO 1220" TO "STANDARD" AND RWY 27 FROM "500 FT PER NM TO 1220" TO "209 FT/NM TO 1000" - EARLY TURN AND LNAV ENGAGEMENT CG NOT REQUIRED; LOWERED TO OBSTACLE-BASED CG.
24. TAKEOFF MINIMUMS, KTTF, ADDED "RWY 3, 21:" - LISTED RUNWAYS AUTHORIZED STANDARD TAKEOFF MINIMUMS.
25. TAKEOFF MINIMUMS, KOZW, ADDED "RWY 13, 31:" - LISTED RUNWAYS AUTHORIZED STANDARD TAKEOFF MINIMUMS.
26. TAKEOFF MINIMUMS, CHANGED KMTC RWY 19 CLIMB GRADIENT FROM 234 FT PER NM TO 235 FT/NM - UPDATED CALCULATIONS/CONTROLLING OBSTACLE SAME - CHANGED FROM 5D TO 4D⁸

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BY OBSTACLE DATA TEAM.

27. CONTROLLING OBSTACLES, KYIP RWY 27, CHANGED CONTROLLING OBSTRUCTION LAT/LONG FROM 421431.78N/0833411.47W TO 421431.80N/0833411.49W (MOVED 2.52 FT NORTHWEST) - UPDATED OBSTACLE DATA.

28. CONTROLLING OBSTACLES, KDET, ADDED VERBIAGE TO RWY 33 "OBSTACLES MANDATING ODP ROUTE DEVELOPMENT" - CG IS STANDARD/OBSTACLE IS REASON FOR EXTENDED ICA/IAW FAO 8260.46J APPENDIX E. SECTION 1.2.J.(3).

29. CONTROLLING OBSTACLES, KONZ, DELETED COMMA BETWEEN "STACK" AND LAT/LONG - FIXED TYPO.

30. CONTROLLING OBSTACLES, KVLL RWY 10, DELETED CONTROLLING OBSTACLE - CG IS STANDARD.

31. CONTROLLING OBSTACLES, KVLL RWY 28, CHANGED CONTROLLING OBSTACLES FROM 940 FT MSL BLDG 423234.20N/0831235.50 (CG), 1749 FT MSL TOWER 422858.00N/0831219.00W (CGTA) TO 905 FT MSL BUILDING 423232.54N/0831234.07W - UPDATED OBSTACLE EVALUATION AND RETAINED CG AND CGTA TO MATCH PUBLISHED ODP AND REDUCE PILOT CONFUSION.

32. CONTROLLING OBSTACLES, KVLL, ADDED "OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 10, 28: 1724 FT MSL TOWER 422858.46N/0831218.94W" - THIS OBSTACLE IS REASON FOR EXTENDED ICA/IAW FAO 8260.46J APPENDIX E. SECTION 1.2.J.(3).

33. ADDED MSA AT ALL AIRPORTS - REQUIRED IAW FAO 8260.46J APPENDIX E. SECTION 1.2.K.

34. ADDITIONAL FLIGHT DATA, MAGNETIC VARIATION ADDED FOR ALL AIRPORTS AND UPDATED KDTW FORMAT FROM "REFERENCE MAG VAR; KDTW 7W/2020" TO "AIRPORT MV: DTW (P) 7W/2020" - REQUIRED ALL AIRPORTS AND DOCUMENTED IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022.

35. ADDITIONAL FLIGHT DATA, UPDATED TOP ALTITUDE FORMAT FROM "KDTW CHART: TOP ALTITUDE 17000" TO "DETROIT METRO WAYNE COUNTY - CHART: TOP ALTITUDE: 17000" AND FROM "ALL OTHER AIRPORTS CHART: TOP ALTITUDE: ASSIGNED BY ATC" TO "ALL OTHER AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC" FORMAT IAW FAO 8260.46J APPENDIX E. SECTION 1.2. M.(B).

36. AIRPORTS SERVED, DELETED AIRPORT NAMES - NAMES NO LONGER REQUIRED.

37. COMMUNICATIONS, ADDED "CHART:" AND DELETED "DEP CON" - VERBIAGE REQUIRED AND DEP CON CHARTED AUTOMATICALLY IAW 8260.46J APPENDIX E. SECTION 1.2.O.

38. REMARKS, ADDED "100 FT MAXIMUM VEGETATION HEIGHT UTILIZED PER FPT CHECKLIST" - INFORMATION ONLY IAW IAW 8260.46J, APPENDIX E, 2.Q.

39. REMARKS, ADDED "WAIVER ON FILE: TO NOT CHART MINIMUM CROSSING ALTITUDE AT IF FOR RADAR VECTORS" - INFORMATION ONLY IAW IAW 8260.46J, APPENDIX E, 2.Q.

40. REMARKS, ADDED "WAIVER ON FILE: AFS-420 MEMORANDUM "WAIVER TO FAA ORDER 8260.58C PARAGRAPH 1-2-

5.C.(3), MAXIMUM BANK ANGLE" DATED 01/31/2023" - INFORMATION ONLY IAW 8260.46J, APPENDIX E, 2.Q.

41. REMARKS, ADDED "KDTW RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO SIMULTANEOUS DEPARTURES" - INFORMATION ONLY IAW 8260.46J, APPENDIX E, 2.Q.

42. REMARKS, ADDED "KYIP RWY 5, 9 DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO KDTW AIR TRAFFIC FLOW" - INFORMATION ONLY IAW IAW 8260.46J, APPENDIX E, 2.Q.

43. REMARKS, ADDED "MEA BASED ON LOWEST DME/DME COVERAGE" - INFORMATION ONLY IAW IAW 8260.46J, APPENDIX E, 2.Q.

44. REMARKS: DELETED "MOCA(S) NOT CHARTED PER ATC REQUEST TO REDUCE CHART CLUTTER" - INFORMATION ONLY IAW IAW 8260.46J, APPENDIX E, 2.Q.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KAYLN	THREE	KAYLN3.KAYLN	TWO	8/15/2019	16 May 2024

<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
DETROIT METRO WAYNE COUNTY (KDTW)									
RW03L (AER)	421228.21N/0832104.39W	N	-	-	-	-			
-	421436.02N/0831930.16W	-	-	VI	028.71	2.43			CG 500 FT PER NM TO 1146
SHEVY	422327.35N/0832324.14W	Y	FB	CF	341.88	9.31			
BUIKK	422802.36N/0833120.10W	Y	FB	TF	308.00	7.45	AT/BELOW 7000		
DDOGE	422727.73N/0834448.41W	Y	FB	TF	266.76	9.99	AT/BELOW 9000		
MTRCT	422551.97N/0841947.92W	Y	FB	TF	266.67	25.96			
RW03(R)	421144.21N/0832106.49W	N	-	-	-	-			
-	421404.99N/0831922.74W	-	-	VI	028.71	2.67			CG 500 FT PER NM TO 1146
SHEVY	422327.35N/0832324.14W	Y	FB	CF	342.31	9.83			
BUIKK	422802.36N/0833120.10W	Y	FB	TF	308.00	7.45	AT/BELOW 7000		
DDOGE	422727.73N/0834448.41W	Y	FB	TF	266.76	9.99	AT/BELOW 9000		
MTRCT	422551.97N/0841947.92W	Y	FB	TF	266.67	25.96			
RW04L (AER)	421207.82N/0832302.40W	N	-	-	-				
-	421427.54N/0832119.53W	-	-	VI	028.68	2.65			CG 500 FT PER NM TO 1146
SHEVY	422327.35N/0832324.14W	Y	FB	CF	350.27	9.12			
BUIKK	422802.36N/0833120.10W	Y	FB	TF	308.00	7.45	AT/BELOW 7000		
DDOGE	422727.73N/0834448.41W	Y	FB	TF	266.76	9.99	AT/BELOW 9000		
MTRCT	422551.97N/0841947.92W	Y	FB	TF	266.67	25.96			

QUALITY
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CHECKED

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
KAYLN		THREE		KAYLN3.KAYLN		TWO		8/15/2019		16 May 2024	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW04R (AER)*	421212.78N/0832213.32W*	N	-	-	-	-			*DISPL THLD (509 FT)		
-	421446.08N/0832020.37W	-	-	VI	028.70	2.91			CG 500 FT/NM TO 1146		
SHEVY	422327.35N/0832324.14W	Y	FB	CF	345.32	8.98					
BUIKK	422802.36N/0833120.10W	Y	FB	TF	308.00	7.45	AT/BELOW 7000				
DDOGE	422727.73N/0834448.41W	Y	FB	TF	266.76	9.99	AT/BELOW 9000				
MTRCT	422551.97N/0841947.92W	Y	FB	TF	266.67	25.96					
RW21L (AER)	421310.86N/0832002.65W	N	-	-	-	-					
-	421050.10N/0832146.32W	-	-	VI	208.72	2.67			CG 500 FT/NM TO 1146		
SAAMS	420303.12N/0833709.78W	Y	FB	CF	235.73	13.85	AT/BELOW 7000				
BSLNE	420911.22N/0834831.76W	Y	FB	TF	306.00	10.45	AT/BELOW 9000				
FDRCH	421313.04N/0835602.14W	Y	FB	TF	305.87	6.88					
MTRCT	422551.97N/0841947.92W	Y	FB	TF	305.79	21.69					
RW21R (AER)	421341.86N/0832010.11W	N	-	-	-	-					
-	421134.56N/0832143.90W	-	-	VI	208.72	2.42			CG 500 FT/NM TO 1146		
SAAMS	420303.12N/0833709.78W	Y	FB	CF	233.34	14.30	AT/BELOW 7000				
BSLNE	420911.22N/0834831.76W	Y	FB	TF	306.00	10.45	AT/BELOW 9000				
FDRCH	421313.04N/0835602.14W	Y	FB	TF	305.87	6.88					
MTRCT	422551.97N/0841947.92W	Y	FB	TF	305.79	21.69					

NFDD NO. 064							04/02/2024		72		
DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
KAYLN							THREE	KAYLN3.KAYLN	TWO	8/15/2019	16 May 2024
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW22L (AER)	421352.36N/0832059.97W	N	-	-	-	-					
	421114.77N/0832256.02W	-	-	VI	208.71	2.99			CG 500 FT PER NM TO 1146		
SAAMS	420303.12N/0833709.78W	Y	FB	CF	232.20	13.39	AT/BELOW 7000				
BSLNE	420911.22N/0834831.76W	Y	FB	TF	306.00	10.45	AT/BELOW 9000				
FDRCH	421313.04N/0835602.14W	Y	FB	TF	305.87	6.88					
MTRCT	422551.97N/0841947.92W	Y	FB	TF	305.79	21.69					
RW22R (AER)	421334.48N/0832158.61W	N	-	-	-	-					
	421115.08N/0832341.20W	-	-	VI	208.69	2.65			CG 500 FT PER NM TO 1146		
SAAMS	420303.12N/0833709.78W	Y	FB	CF	230.67	12.95	AT/BELOW 7000				
BSLNE	420911.22N/0834831.76W	Y	FB	TF	306.00	10.45	AT/BELOW 9000				
FDRCH	421313.04N/0835602.14W	Y	FB	TF	305.87	6.88					
MTRCT	422551.97N/0841947.92W	Y	FB	TF	305.79	21.69					
RW27L (AER)	421158.34N/0831949.33W	N	-	-	-	-					
-	-	-	-	VM	268.73	-					
RW27R (AER)	421303.02N/0831951.71W	N	-	-	-	-					
-	-	-	-	VM	268.72	-					
WILLOW RUN (KYIP)											
RW05 (AER)	421350.25N/0833223.46W	N	-	-	-	-					
1220 MSL	-	-	-	VA	046.70	-	AT/ABOVE 1220		CG 500 FT PER NM TO 1220		
-	-	-	-	VM	294.00	-					

QUALITY

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CHECKED



NFDD NO. 064						04/02/2024		73		
<u>DP NAME</u>						<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KAYLN						THREE	KAYLN3.KAYLN	TWO	8/15/2019	16 May 2024
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>	
RW09 (AER)	421438.22N/0833235.98W	N	-	-	-	-				
1220 MSL	-	-	-	VA	088.55	-	AT/ABOVE 1220		CG 500 FT PER NM TO 1220	
-	-	-	-	VM	294.00	-				
RW23 (AER)	421441.34N/0833110.47W	N	-	-	-	-				
-	-	-	-	VM	226.72	-				
RW27 (AER)	421439.47N/0833129.51W	N	-	-	-	-			CG 209 FT PER NM TO 1000	
-	-	-	-	VM	268.56	-				
MTRCT	422551.97N/0841947.92W	Y	-	IF	-	-				
KAYLN	422619.72N/0843728.71W	Y	FB	TF	272.12	13.10				
KAYLN	422619.72N/0843728.71W	Y	-	IF	-	-			KAYLN3.SMUUV	
IIICE	422647.97N/0845735.55W	Y	FB	TF	271.92	14.90				
SMUUV	422758.77N/0860738.37W	Y	FB	TF	271.70	51.86				

