

**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.

<u>DP NAME</u>						<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL						ONE	PAVYL1.PAVYL	NONE		
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>					
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

**DP ROUTE DESCRIPTION:**  
**DETROIT METROPOLITAN WAYNE COUNTY (KDTW):**

**TAKEOFF RWY 3L:** CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 064.09 TO WNNGZ, THEN ON TRACK 064.09 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 3R:** CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 060.57 TO WNNGZ, THEN ON TRACK 064.09 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 4L:** CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 068.17 TO WNNGZ, THEN ON TRACK 064.09 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 4R:** CLIMB ON HEADING 035.70 TO INTERCEPT COURSE 067.52 TO WNNGZ, THEN ON TRACK 064.09 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 21L:** CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 180.44 TO JOELU, THEN ON TRACK 181.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 21R:** CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 181.07 TO JOELU, THEN ON TRACK 181.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 22L:** CLIMB ON HEADING 215.71 TO INTERCEPT COURSE 175.62 TO JOELU, THEN ON TRACK 181.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 22R:** CLIMB ON HEADING 215.69 TO INTERCEPT COURSE 172.40 TO JOELU, THEN ON TRACK 181.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27L:** CLIMB ON HEADING 275.73 TO 1160, THEN ON HEADING 275.71 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27R:** CLIMB ON HEADING 275.72 TO 1160, THEN ON HEADING 275.70 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**WILLOW RUN (KYIP):**

**TAKEOFF RWY 5L:** CLIMB ON HEADING 053.71 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 5R:** CLIMB ON HEADING 053.70 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 9:** CLIMB ON HEADING 095.55 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 23L:** CLIMB ON HEADING 233.72 TO 1220, THEN ON HEADING 233.70 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 23R:** CLIMB ON HEADING 233.73 TO 1220, THEN ON HEADING 233.72 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27:** CLIMB ON HEADING 275.57 TO 1220, THEN ON HEADING 275.56 FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ANN ARBOR MUNI (KARB):**

**TAKEOFF RWY 6:** CLIMB ON HEADING 059.53 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 24:** CLIMB ON HEADING 239.53 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**COLEMAN A YOUNG MUNI (KDET):**

**TAKEOFF RWY 7:** CLIMB ON HEADING 068.30 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 15:** CLIMB ON HEADING 148.32 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 25:** CLIMB ON HEADING 248.31 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 33:** CLIMB ON HEADING 328.33 TO 1800 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.



**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL	ONE	PAVYL1.PAVYL	NONE		

**CUSTER (KTTF):**

**TAKEOFF RWY 3:** CLIMB ON HEADING 027.49 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 21:** CLIMB ON HEADING 207.50 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**GROSSE ILE MUNI (KONZ):**

**TAKEOFF RWY 4:** CLIMB ON HEADING 037.34 TO 1200 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 17:** CLIMB ON HEADING 173.78 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 22:** CLIMB ON HEADING 217.34 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 35:** CLIMB ON HEADING 005.78 TO 1800 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**LIVINGSTON COUNTY SPENCER J HARDY (KOZW):**

**TAKEOFF RWY 13:** CLIMB ON HEADING 132.35 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 31:** CLIMB ON HEADING 312.36 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**OAKLAND COUNTY INTL (KPTK):**

**TAKEOFF RWY 9L:** CLIMB ON HEADING 094.66 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 9R:** CLIMB ON HEADING 094.63 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27L:** CLIMB ON HEADING 274.65 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27R:** CLIMB ON HEADING 274.68 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**OAKLAND/TROY (KVLL):**

**TAKEOFF RWY 9:** CLIMB ON HEADING 095.71 TO 1400 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27:** CLIMB ON HEADING 275.72 TO 1500 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**SELFRIDGE ANGB (KMTC):**

**TAKEOFF RWY 1:** CLIMB ON HEADING 007.47 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 19:** CLIMB ON HEADING 187.47 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.



**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL	ONE	PAVYL1.PAVYL	NONE		

**WINDSOR (CYQG):**

**TAKEOFF RWY 7:** CLIMB ON HEADING 069.55 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 12:** CLIMB ON HEADING 122.61 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 25:** CLIMB ON HEADING 249.56 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 30:** CLIMB ON HEADING 302.60 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS SLVVA AT OR ABOVE 4000, THENCE...

...ON TRACK 097.33 TO PAVYL, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
ESSBE	PAVYL1.ESSBE	PAVYL	ESSBE	TRACK 106.45	30.05	10000		
MRDOC	PAVYL1.MRDOC	PAVYL	MRDOC	TRACK 101.21	38.56	10000		

**PROCEDURAL DATA NOTES:**

**NOTE:** RNAV 1

**NOTE:** RADAR REQUIRED

**NOTE:** DME/DME/IRU OR GPS REQUIRED.

**NOTE:** TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.

**TAKEOFF MINIMUMS:**

**DETROIT METROPOLITAN WAYNE COUNTY (KDTW):**

**RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R:** STANDARD.

**RWY 27L, 27R:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1160.

**WILLOW RUN (KYIP):**

**RWY 5L, 5R, 9, 23L, 23R, 27:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1220.

**ANN ARBOR MUNI (KARB):**

**RWY 6, 24:** STANDARD.

**RWY 12, 30:** NA - ENVIRONMENTAL.

**COLEMAN A YOUNG MUNI (KDET):**

**RWY 7, 15, 33:** STANDARD.

**RWY 25:** STANDARD WITH MINIMUM CLIMB OF 210 FEET PER NM TO 1000.

**CUSTER (KTTF):**

STANDARD.

**GROSSE ILE MUNI (KONZ):**

**RWY 4, 17, 22:** STANDARD.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1100.

**LIVINGSTON COUNTY SPENCER J HARDY (KOZW):**



**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL	ONE	PAVYL1.PAVYL	NONE		

STANDARD.

**OAKLAND COUNTY INTL (KPTK):**  
**RWY 9L, 9R, 27L, 27R:** STANDARD.  
**RWY 18, 36:** NA - ENVIRONMENTAL.

**OAKLAND/TROY (KVLL):**  
**RWY 9:** STANDARD.  
**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 476 FT PER NM TO 1500.

**SELFRIDGE ANGB (KMTC):**  
**RWY 1:** STANDARD.  
**RWY 19:** STANDARD WITH MINIMUM CLIMB OF 234 FT PER NM TO 1500.

**WINDSOR (CYQG):**  
**RWY 7, 12, 25:** STANDARD.  
**RWY 30:** STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 1300.

**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 421431.78N/0833411.47W

**COLEMAN A YOUNG MUNI (KDET):**  
**RWY 25:** 871 FT MSL STACK 422307.00N/0830235.00W  
**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 27:** 940 FT MSL BLDG 423234.20N/0831235.50W (CG), 1749 FT MSL TOWER 422858.00N/0831219.00W (CGTA)

**SELFRIDGE ANGB (KMTC):**  
**RWY 19:** 1246 FT MSL TOWER 423315.00N/0825315.00W

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**  
CHART: TOP ALTITUDE: 17000  
REFERENCE MAG VAR; KDTW 7W/2020  
DME/DME ASSESSMENT: SAT (RNP 2.0)



**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL	ONE	PAVYL1.PAVYL	NONE		
<u>AIRPORTS SERVED:</u>					
<u>AIRPORT NAME</u>	<u>CITY</u>		<u>STATE</u>		
DETROIT METROPOLITAN WAYNE COUNTY (KDTW)	DETROIT		MI		
WILLOW RUN (KYIP)	DETROIT		MI		
ANN ARBOR MUNI (KARB)	ANN ARBOR		MI		
COLEMAN A YOUNG MUNI (KDET)	DETROIT		MI		
CUSTER (KTTF)	MONROE		MI		
GROSSE ILE MUNI (KONZ)	DETROIT/GROSSE ILE		MI		
LIVINGSTON COUNTY SPENCER J HARDY (KOZW)	HOWELL		MI		
OAKLAND COUNTY INTL (KPTK)	PONTIAC		MI		
OAKLAND/TROY (KVLL)	TROY		MI		
SELFRRIDGE ANGB (KMTC)	MOUNT CLEMENS		MI		
WINDSOR (CYQG)	WINDSOR, ONTARIO, CANADA				

**COMMUNICATIONS:**

ATIS, AWOS/ASOS, CLNC DEL, GND CON, TWR, CTAF, DEP CON

**FIXES AND/OR NAVAIDS:**

**REMARKS:**

MOCA(S) NOT CHARTED PER ATC REQUEST TO REDUCE CHART CLUTTER.

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).



**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PAVYL	ONE	PAVYL1.PAVYL	NONE		
<u>FLIGHT INSPECTED BY:</u>			<u>OFFICE SYMBOL:</u>	<u>DATE:</u>	
 <u>DEVELOPED BY:</u>			<u>OFFICE SYMBOL:</u>	<u>DATE:</u>	
LUCAS MCCLOUD			AJV-5422	12/07/2017	
 <u>APPROVED BY:</u>			<u>OFFICE SYMBOL:</u>	<u>DATE:</u>	
JULIE MORGAN			AJV-5420		
 <u>REQUIRED EFFECTIVE DATE:</u>					
ROUTINE					
 <u>COORDINATED WITH:</u>					
<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 <u>OTHER:</u>					
ZOB, DTW APP CON, AMGR					
 <u>CHANGES - REASONS:</u>					
ORIGINAL - ATC REQUEST.					



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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
PAVYL							ONE	PAVYL1.PAVYL	NONE		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
	DETROIT METROPOLITAN WAYNE COUNTY (KDTW)										
RW03L (AER)	421228.21N/0832104.39W	N	-	-	-	-					
-	421526.97N/0831852.57W	-	-	VI	028.71	3.40					
WNNGZ	421936.75N/0831013.71W	Y	FB	CF	057.09	7.65				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	057.09	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW03R (AER)	421144.21N/0832106.49W	N	-	-	-	-					
-	421456.01N/0831845.10W	-	-	VI	028.71	3.64					
WNNGZ	421936.75N/0831013.71W	Y	FB	CF	053.57	7.87				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	057.09	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW04L (AER)	421207.82N/0832302.40W	N	-	-	-	-					
-	421519.74N/0832041.07W	-	-	VI	028.68	3.64					
WNNGZ	421936.75N/0831013.71W	Y	FB	CF	061.17	8.86				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	057.09	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW04R (AER)*	421212.78N/0832213.32W*	N	-	-	-	-				*DISPL THLD (509 FT)	
-	421537.54N/0831942.41W	-	-	VI	028.70	3.89					
WNNGZ	421936.75N/0831013.71W	Y	FB	CF	060.52	8.09				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	057.09	-				RECOMMENDED NAVAID: AIR VOR/DME	

QUALITY  
3  
CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
PAVYL							ONE	PAVYL1.PAVYL	NONE		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW21L (AER)	421310.86N/0832002.65W	N	-	-	-	-					
-	420958.91N/0832224.01W	-	-	VI	208.72	3.65					
JOELU	420050.25N/0832059.20W	Y	FB	CF	173.44	9.20				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	174.00	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW21R (AER)	421341.85N/0832010.12W	N	-	-	-	-					
-	421042.86N/0832221.96W	-	-	VI	208.72	3.40					
JOELU	420050.25N/0832059.20W	Y	FB	CF	174.07	9.93				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	174.00	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW22L (AER)	421352.37N/0832059.97W	N	-	-	-	-					
-	421022.92N/0832334.16W	-	-	VI	208.71	3.98					
JOELU	420050.25N/0832059.20W	Y	FB	CF	168.62	9.73				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	174.00	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW22R (AER)	421334.48N/0832158.61W	N	-	-	-	-					
-	421022.73N/0832419.68W	-	-	VI	208.69	3.64					
JOELU	420050.25N/0832059.20W	Y	FB	CF	165.40	9.86				RECOMMENDED NAVAID: AIR VOR/DME	
-	-	-	-	FM	174.00	-				RECOMMENDED NAVAID: AIR VOR/DME	
RW27L (AER)	421158.34N/0831949.33W	N	-	-	-	-					
1160 MSL	-	-	-	VA	268.73	-				CG 500 FT/NM TO 1160	QUALITY 3

QUALITY  
3  
CHECKED



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

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
PAVYL		ONE		PAVYL1.PAVYL		NONE					
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
-	-	-	-	VM	268.71	-					
RW27R (AER)	421303.02N/0831951.72W	N	-	-	-	-					
1160 MSL	-	-	-	VA	268.72	-			CG 500 FT/NM TO 1160		
-	-	-	-	VM	268.70	-					
WILLOW RUN (KYIP)											
RW05L (AER)	421355.86N/0833230.06W	N	-	-	-	-					
1220 MSL	-	-	-	VA	046.71	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW05R (AER)	421350.25N/0833223.46W	N	-	-	-	-					
1220 MSL	-	-	-	VA	046.70	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW09 (AER)*	421438.37N/0833228.33W*	N	-	-	-	-			*DISPL THLD (576 FT)		
1220 MSL	-	-	-	VA	088.55	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW23L (AER)	421441.34N/0833110.47W	N	-	-	-	-					
1220 MSL	-	-	-	VA	226.72	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	226.70	-					
QUALITY											
3											

QUALITY  
3  
CHECKED

**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>EFFECTIVE DATE</u>
PAVYL		ONE		PAVYL1.PAVYL		NONE			
<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>
RW23R (AER)	421436.47N/0833132.03W	N	-	-	-	-			
1220 MSL	-	-	-	VA	226.73	-			CG 500 FT/NM TO 1220
-	-	-	-	VM	226.72	-			
RW27 (AER)	421440.03N/0833059.06W	N	-	-	-	-			
1220 MSL	-	-	-	VA	268.57	-			CG 500 FT/NM TO 1220
-	-	-	-	VM	268.56	-			
SLVVA	420838.11N/0823736.16W	Y	-	IF	-	-	AT/ABOVE 4000		
PAVYL	420834.90N/0822705.46W	Y	FB	TF	090.33	7.82			
PAVYL	420834.90N/0822705.46W	Y	-	IF	-	-			PAVYL1.ESSBE
ESSBE	420331.96N/0814717.79W	Y	FB	TF	099.45	30.05			
PAVYL	420834.90N/0822705.46W	Y	-	IF	-	-			PAVYL1.MRDOC
MRDOC	420533.23N/0813526.34W	Y	FB	TF	094.21	38.56			

