

FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name WNGNT (RNAV)	Number TWO	STAR Computer Code WNGNT.WNGNT2	Superseded Number ONE	Dated 09/13/2018	Effective Date 10 OCT 2019
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
JACCI	JACCI.WNGNT2	JACCI	JACCI						
			VOLPE	279.66	83.81	10000	4200		
			SAYCH	277.88	33.44	10000	2100		AT/ABOVE FL240
			NUTTZ	271.32	19.09	10000	2200		
			WNGNT	271.02	23.60	8000	2400		BETWEEN 16000 AND FL230

ARRIVAL ROUTE DESCRIPTION:

FROM WNGNT ON TRACK 266.51/20.09 TO CROSS BOUTU BETWEEN 12000 AND 15000, THEN ON TRACK 256.86/18.11 TO CROSS ROOAD AT 12000 AND AT 250 KIAS.
 LANDING RWY 3L/R, 4R: FROM ROOAD ON TRACK 214.17/11.91 TO CROSS SPRTS AT 12000 AND AT 210 KIAS, THEN ON TRACK 215.68. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
 LANDING RWY 4L: FROM ROOAD ON TRACK 271.70/14.66 TO CADLC, THEN ON TRACK 218.18/4.00 TO CROSS YNDER AT 12000 AND AT 210 KIAS, THEN ON TRACK 218.18. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

- NOTE: RADAR REQUIRED
- NOTE: RNAV 1
- NOTE: DME/DME/IRU OR GPS REQUIRED
- NOTE: USE RWY 3R TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT APP CON NO LATER THAN 10 NM FROM ROOAD.
- NOTE: JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KIAS. MAINTAIN 280 KIAS UNTIL SLOWED BY THE STAR.
- NOTE: FOR USE WHEN DTW LANDING NORTH. WHEN DTW LANDING SOUTH OR WEST, FILE AND EXPECT THE FERRL RNAV STAR.

FIXES AND/OR HOLDING PATTERNS:

- CHART HOLDING AT VOLPE: HOLD E, LT, 279.66 INBOUND, 10 NM LEGS.
- CHART HOLDING AT WNGNT: HOLD E, LT, 271.02 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

DTW ATIS, DETROIT APP CON

AIRPORTS SERVED:

DETROIT METROPOLITAN WAYNE COUNTY, DETROIT, MI (KDTW)

LOST COMMUNICATIONS PROCEDURE:

REMARKS:



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ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 REFERENCE MAGNETIC VARIATION = KDTW 07W/2020
 CHART AT SPRTS TERMINUS: KDTW LDG RWY 3L/R, 4R
 CHART AT YNDER TERMINUS: KDTW LDG RWY 4L
 DO NOT CHART MOCAs.

FLIGHT INSPECTED BY:

BRYAN VEIT
 Name
 FICO
 Organization
 7/11/19
 Date

Digitally signed by

JACOB POWERS

Jul 17, 2019

Signature

DEVELOPED BY:

MIKE FERRELL
 Name
 CLEVELAND ARTCC METROPLEX LEAD
 Organization
 03/18/2019
 Date

Digitally signed by

JACOB POWERS

Jul 17, 2019

Signature

APPROVED BY:

PAT MULQUEEN
 Name
 AJV-A440
 Organization
 Date

Digitally signed by

JACOB POWERS

Jul 17, 2019

Signature

CHANGES:

1. ADDED NUTTZ WP.
2. CHANGED MEA FOR NUTTZ-WNGNT LEG FROM 10000 TO 8000.
3. CHANGED ALTITUDE RESTRICTION AT SAYCH FROM BETWEEN FL240 AND FL260 TO AT OR ABOVE FL240.
4. MOVED WNGNT 2.1 NM SOUTH; HOLDING INBOUND COURSE CHANGED FROM 273.95 TO 271.02.
5. CHANGED ALTITUDE RESTRICTION AT WNGNT FROM AT/ABOVE 16000 TO BETWEEN 16000 AND FL230.
6. CHANGED CHART NOTE FROM "FOR USE WHEN DTW IS IN NORTH FLOW. WHEN DTW IS IN SOUTH FLOW, FILE AND EXPECT THE FERRL RNAV STAR" TO "FOR USE WHEN DTW LANDING NORTH. WHEN DTW LANDING SOUTH OR WEST, FILE AND EXPECT THE FERRL RNAV STAR."
7. CHANGED CHART NOTE FROM "USE RWY 3R TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT TRACON PRIOR TO ROOAD" TO "USE RWY 3R TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT APP CON NO LATER THAN 10 NM FROM ROOAD."
8. MOVED CADLC 4 NM NORTH; REMOVED AS TERMINUS FOR LANDING RWY 4L.
9. MOVED YNDER 3.2 NM SW; ADDED AS TERMINUS FOR LANDING RWY 4L.
10. REMOVED ALTITUDE/SPEED RESTRICTION AT CADLC.
11. ADDED 12000 AND 210 KIAS RESTRICTION AT YNDER.
12. VOLPE MOCA CHANGED FROM 5100 TO 4200; SAYCH FROM 3100 TO 2100; WNGNT FROM 3400 TO 2400.
13. REMOVED RECOMMENDED NAVAID.

REASONS:

1. NEEDED FOR SPACING OF ARRIVALS.
2. LOWER MEA NEEDED FOR PROPS AND TURBOPROPS.



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- 3. MAXIMUM ALTITUDE NO LONGER NEEDED.
- 4, 5. BETTER POSITION AIRCRAFT FOR TURN TO DOWNWIND / ALIGN WITH INBOUND COURSE.
- 6. CHANGED WORDING OF CHART NOTE TO LANDING DIRECTION AND STANDARDIZED FOR ALL PROCEDURES.
- 7. IDENTIFY WHEN TO EXPECT RUNWAY ASSIGNMENT REFERENCE WAYPOINT.
- 8-11. ALIGN WITH CHANGES MADE TO RNAV(RNP) W RWY 04L.
- 12. NEW OBST EVAL.
- 13. NO LONGER REQUIRED.



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name WNGNT (RNAV)	Number TWO	STAR Computer Code WNGNT.WNGNT2	Superseded Number ONE	Dated 09/13/2018	Effective Date 10 OCT 2019
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
JACCI	422811.29N / 0784346.85W	Y		IF					JACCI.WNGNT2
VOLPE	423109.00N / 0803700.00W	Y	FB	TF	272.66	83.81			
SAYCH	423130.93N / 0812212.90W	Y	FB	TF	270.88	33.44	AT/ABOVE FL240	AT 280K	
NUTTZ	422934.64N / 0814753.65W	Y	FB	TF	264.32	19.09			
WNGNT	422702.72N / 0821936.19W	Y	FB	TF	264.02	23.60	16000BFL230	AT 280K	

Common Route									
WNGNT	422702.72N / 0821936.19W	Y		IF			16000BFL230	AT 280K	WNGNT.WNGNT2
BOUTU	422320.18N / 0824615.61W	Y	FB	TF	259.51	20.09	12000B15000		
ROOAD	421703.52N / 0830910.36W	Y	FB	TF	249.86	18.11	AT 12000	AT 250K	

Runway Transition									
ROOAD	421703.52N / 0830910.36W	Y		IF			AT 12000	AT 250K	
SPRTS	420627.28N / 0831628.71W	Y	FO	TF	207.17	11.91	AT 12000	AT 210K	
KDTW:RWY 3L,RWY 3R,RWY 4R				FM	208.68				

Runway Transition									
ROOAD	421703.52N / 0830910.36W	Y		IF			AT 12000	AT 250K	
CADLC	421540.55N / 0832849.94W	Y	FB	TF	264.70	14.66			
YNDER	421215.11N / 0833137.13W	Y	FO	TF	211.18	04.00	AT 12000	AT 210K	
KDTW:RWY 4L				FM	211.18				

