

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Arrival Name BONZZ (RNAV)	Number TWO	STAR Computer Code BONZZ.BONZZ2	Superseded Number ONE	Dated 09/13/2018	Effective Date 10 OCT 2019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
JAMOX	JAMOX.BONZZ2	JAMOX	JAMOX						
			BOBCT	359.19	50.72	10000	2600		
			SSAID	352.46	22.97	10000	2900		
			EEEZI	352.39	18.99	10000	2700		BETWEEN FL240 AND FL270
			HUMRR	328.74	21.22	8000	2200		
			BONZZ	328.55	18.79	8000	2000		BETWEEN 15000 AND FL210
KOZAR	KOZAR.BONZZ2	KOZAR	KOZAR						
			EEEZI	304.14	84.49	10000	3100		BETWEEN FL240 AND FL270
			HUMRR	328.74	21.22	8000	2200		
			BONZZ	328.55	18.79	8000	2000		BETWEEN 15000 AND FL210

ARRIVAL ROUTE DESCRIPTION:

FROM BONZZ ON TRACK 319.47/11.65 TO CROSS KLYNK BETWEEN 12000 AND 15000, THEN ON TRACK 319.11/14.28 TO CROSS TMBIT BETWEEN 10000 AND 11000 AND AT 250 KIAS, THEN ON TRACK 319.69/4.31 TO CROSS FFORK AT OR ABOVE 9000.
 LANDING RWY 22L, 21L/R: FROM FFORK ON TRACK 037.15/9.92 TO CROSS TBRRD AT 8000 AND AT 210 KIAS, THEN ON TRACK 035.75. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
 LANDING RWY 22R: FROM FFORK ON TRACK 307.52/12.19 TO TRPRS, THEN ON TRACK 035.48/4.87 TO CROSS DZMND AT 8000 AND AT 210 KIAS, THEN ON TRACK 033.32. 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 RUNWAY 21L TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT APP CON NO LATER THAN 10 NM FROM FFORK.
- 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 SOUTH. WHEN DTW LANDING NORTH OR WEST, FILE AND EXPECT THE KLYNK RNAV STAR.

FIXES AND/OR HOLDING PATTERNS:

- CHART HOLDING AT BONZZ: HOLD SE, LT, 328.55 INBOUND, 10 NM LEGS.
- CHART HOLDING AT EEEZI: HOLD S, RT, 352.39 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

DTW ATIS, DETROIT APP CON

AIRPORTS SERVED:

DETROIT METROPOLITAN WAYNE COUNTY, DETROIT, MI (KDTW)

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BONZZ (RNAV)	TWO	BONZZ.BONZZ2	ONE	09/13/2018	10 OCT 2019

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 REFERENCE MAGNETIC VARIATION = KDTW 07W/2020
 CHART AT TBRRD TERMINUS: KDTW LDG RWY 21L/R, 22L
 CHART AT DZMND TERMINUS: KDTW LDG RWY 22R
 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. CHANGED MEA FOR HUMRR-BONZZ SEGMENT FROM 10000 TO 8000.
2. CHANGED CHART NOTE FROM "FOR USE WHEN DTW IS IN SOUTH FLOW. WHEN DTW IS IN NORTH FLOW, FILE AND EXPECT THE KLYNK RNAV STAR" TO READ, "FOR USE WHEN DTW LANDING SOUTH. WHEN DTW LANDING NORTH OR WEST, FILE AND EXPECT THE KLYNK RNAV STAR."
3. CHANGED CHART NOTE FROM "USE RUNWAY 21L TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT TRACON PRIOR TO TMBIT" TO READ, "USE RUNWAY 21L TRANSITION OR AS ASSIGNED BY ATC. EXPECT RUNWAY ASSIGNMENT FROM DETROIT APP CON NO LATER THAN 10 NM FROM FFORK."
4. ADDED HUMRR WP TO BOTH ENROUTE TRANSITIONS.
5. CHANGED HOLDING PATTERN AT BONZZ TO LEFT TURNS; INBOUND COURSE FROM 328.74 TO 328.55.
6. CHANGED NAME OF WHHAT WP TO EEEZI WP.
7. MOVED DZMND 3.15 NM SOUTH.
8. CHANGED ALTITUDE RESTRICTION AT DZMND FROM 7000 TO 8000.
9. REMOVED ALTITUDE RESTRICTION AT TRPRS.
10. MOVED TRPRS 0.26 NM SE.
11. REMOVED RECOMMENDED NAVAID.



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REASONS:

1. LOWER MEA NEEDED FOR PROPS AND TURBOPROPS.
2. STANDARDIZED FOR ALL PROCEDURES.
3. IDENTIFY WHEN TO EXPECT RUNWAY ASSIGNMENT REFERENCE WAYPOINT.
4. DECONFLICT PROCEDURE FROM CLE AIRSPACE.
5. DECONFLICT FROM ADJACENT PROCEDURE.
6. WAYPOINT NAME CHANGE (FROM WHHAT) NEEDED TO ELIMINATE CONFUSION.
- 7-10. REQUIRED TO RAISE TERMINATION ALTITUDE TO 8000.
11. NO LONGER REQUIRED.



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 STAR (DATA RECORD)

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
JAMOX	394238.70N / 0815144.12W	Y		IF					JAMOX.BONZZ2
BOBCT	403255.62N / 0820046.29W	Y	FB	TF	352.19	50.72			
SSAID	405510.35N / 0820822.89W	Y	FB	TF	345.46	22.97			
EEEZI	411333.15N / 0821443.63W	Y	FB	TF	345.39	18.99	FL240BFL270	AT 280K	
HUMRR	413012.05N / 0823212.97W	Y	FB	TF	321.74	21.22			
BONZZ	414454.29N / 0824749.65W	Y	FB	TF	321.55	18.79	15000BFL210	AT 280K	

En Route Transition									
KOZAR	403542.17N / 0803505.05W	Y		IF					KOZAR.BONZZ2
EEEZI	411333.15N / 0821443.63W	Y	FB	TF	297.14	84.49	FL240BFL270	AT 280K	
HUMRR	413012.05N / 0823212.97W	Y	FB	TF	321.74	21.22			
BONZZ	414454.29N / 0824749.65W	Y	FB	TF	321.55	18.79	15000BFL210	AT 280K	

Common Route									
BONZZ	414454.29N / 0824749.65W	Y		IF			15000BFL210	AT 280K	BONZZ.BONZZ2
KLYNK	415245.71N / 0825919.66W	Y	FB	TF	312.47	11.65	12000B15000		
TMBIT	420219.82N / 0831332.86W	Y	FB	TF	312.11	14.28	10000B11000	AT 250K	
FFORK	420515.28N / 0831748.37W	Y	FB	TF	312.69	04.31	AT/ABOVE 9000		

Runway Transition									
FFORK	420515.28N / 0831748.37W	Y		IF			AT/ABOVE 9000		
TBRRD	421350.08N / 0831105.83W	Y	FO	TF	030.15	09.92	AT 8000	AT 210K	
KDTW:RWY 21L,RWY 21R,RWY 22L				FM	028.75				



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
FFORK	420515.28N / 0831748.37W	Y		IF			AT/ABOVE 9000		
TRPRS	421125.99N / 0833155.82W	Y	FB	TF	300.52	12.19			
DZMND	421542.87N / 0832848.20W	Y	FO	TF	028.48	04.87	AT 8000	AT 210K	
KDTW:RWY 22R				FM	026.32				

