

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.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
JOOLS (RNAV)	FOUR	JOOLS.JOOLS4	THREE	07/09/2026	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
THRSR	THRSR.JOOLS4	THRSR	THRSR						
			PENFI	089.93	59.66	11000	3300		
			HRTWL	067.75	62.55	11000	2300		
			ZELLE	066.62	12.77	11000	2200		
WANSA	WANSA.JOOLS4	WANSA	JOOLS	066.74	17.92	11000	2200		
			JEENI	007.59	07.91	11000	2300		
			HRTWL	007.72	24.69	11000	2300		
			ZELLE	066.62	12.77	11000	2200		
			JOOLS	066.74	17.92	11000	2200		

ARRIVAL ROUTE DESCRIPTION:

CLT: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR.

LANDING CLT RWY 1L/R, 36: FROM CHPTR ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING CLT RWY 18, 19L/R: FROM CHPTR ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING DCM/EQY/UZA/AFP/N52/VUJ/LKR: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING AKH/RUQ/EHO/JQF/IPJ: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT HRTWL: HOLD SW, RT, 066.62 INBOUND, 10 NM LEGS.

CHART HOLDING AT JOOLS: HOLD SW, LT, 066.92 INBOUND, 10 NM LEGS.

COMMUNICATIONS:



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AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
CLT	CHARLOTTE	NC
AFP	WADESBORO	NC
EQY	MONROE	NC
DCM	CHESTER	SC
JQF	CONCORD	NC
AKH	GASTONIA	NC
N52	WAXHAW	NC
LKR	LANCASTER	SC
IPJ	LINCOLNTON	NC
RUQ	SALISBURY	NC
UZA	ROCK HILL	SC
EHO	SHELBY	NC
VUJ	ALBEMARLE	NC

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ABBREVIATED AMENDMENT.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: CLT 07W/2000

CHART AT KEGGG TERMINUS: CLT LDG RWY 1L/R, 36

CHART AT WHDRW TERMINUS: CLT LDG RWY 18, 19L/R

CHART AT KEGGG TERMINUS: LDG AFP/DCM/EQY/LKR/N52/UZA/VUJ

CHART AT WHDRW TERMINUS: LDG AKH/EHO/IPJ/JQF/RUQ

CHART: USE CAUTION: PARACHUTE JUMPING 17 NM NE OF CHPTR, 3 NM RADIUS DCM (CHESTER-CATAWBA RGNL), AT OR BELOW 14500 MSL.



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FLIGHT INSPECTED BY:

ORGANIZATION: **DATE:**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION VALIDATION.

Flight Inspected Signature:

Digitally signed by
CASIMIR L TABAKA

Mar 06, 2026

DEVELOPED BY:

GUY COPELAND

AJV-A432

02/18/2026

Developed By Signature:

Digitally signed by
CASIMIR L TABAKA

Mar 06, 2026

APPROVED BY:

BEV BORDY

AJV-A430

Approved By Signature:

Digitally signed by
CASIMIR L TABAKA

Mar 06, 2026

CHANGES:

1. AMENDED RWY NUMBERING FOR RWY 18L TO RWY 18 AND RWY 36R TO RWY 36.

REASONS:

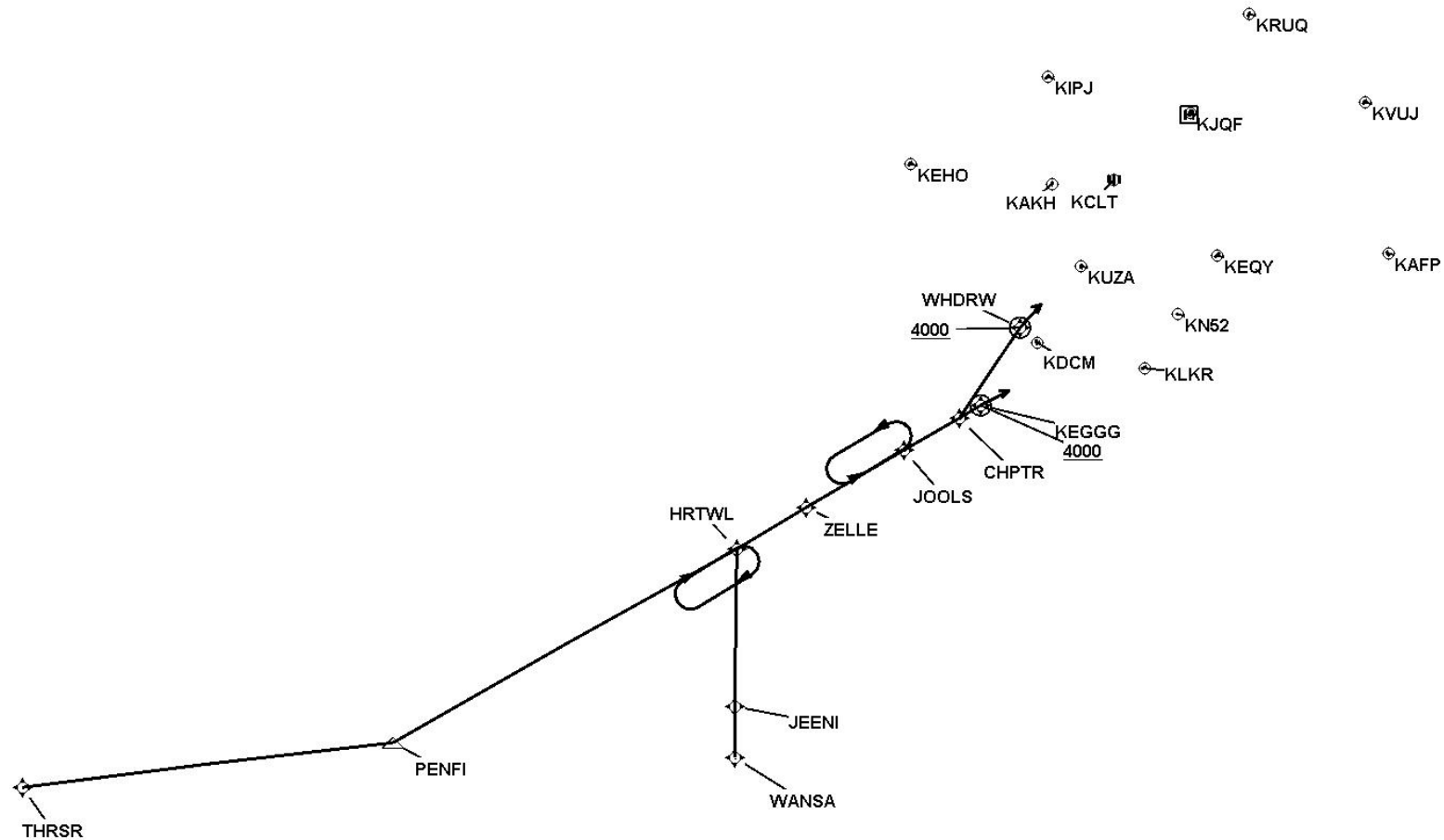
1. PHASE THREE OF THE CHARLOTTE AIRPORT RUNWAY RENUMBERING PROJECT.



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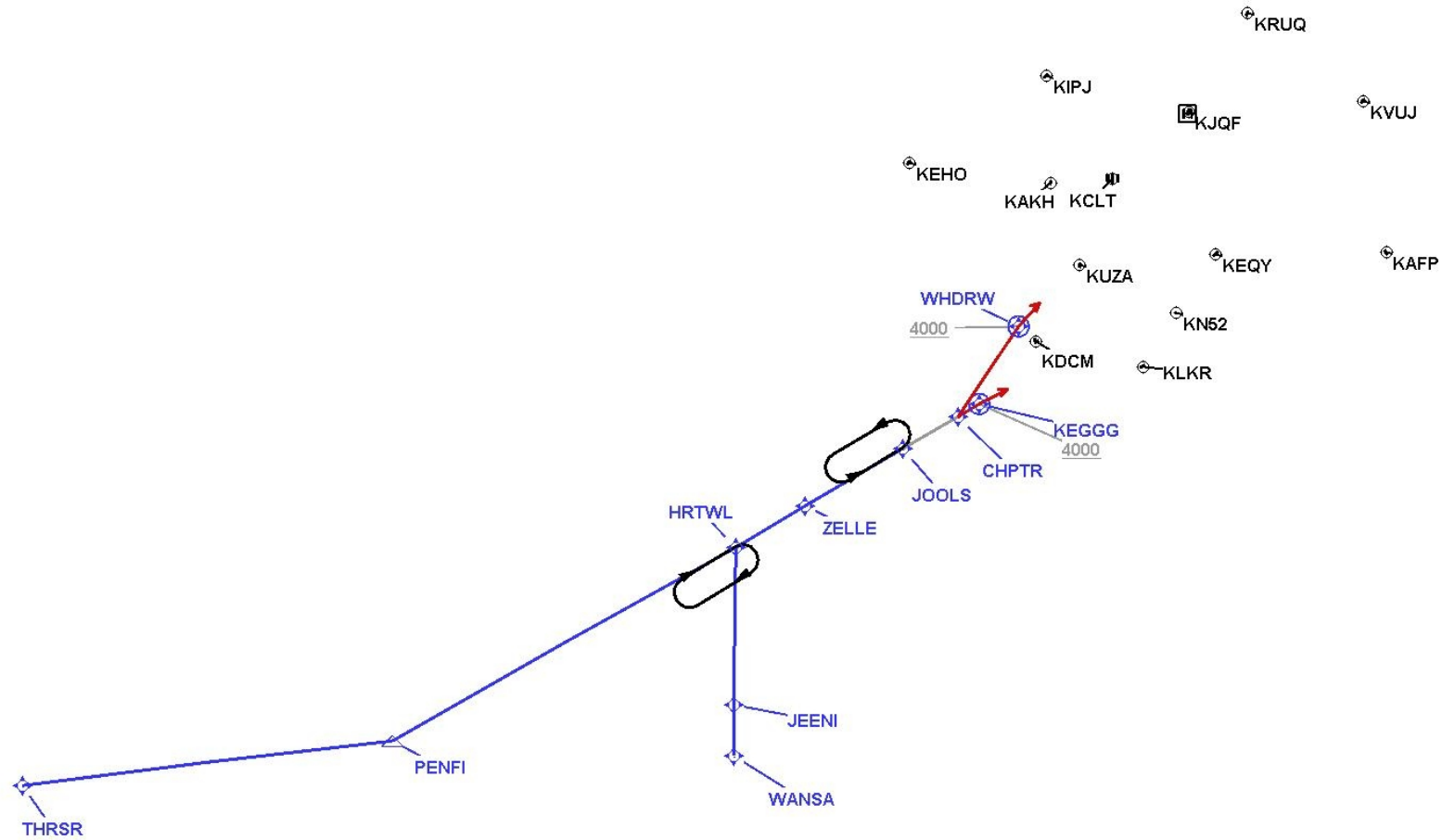
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
JOOLS (RNAV)	FOUR	JOOLS.JOOLS4	THREE	07/09/2026	
Graphic Depiction 1					



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JOOLS (RNAV)	FOUR	JOOLS.JOOLS4	THREE	07/09/2026	
Graphic Depiction 2					



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

Arrival Name JOOLS (RNAV)	Number FOUR		STAR Computer Code JOOLS.JOOLS4				Superseded Number THREE	Dated 07/09/2026	Effective Date
<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>
En Route Transition									
THRSR	333745.26N / 0842606.36W	Y		IF					THRSR.JOOLS4
PENFI	334445.98N / 0831506.14W	Y	FB	TF	082.93	59.66			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	060.75	62.55			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
En Route Transition									
WANSA	334226.10N / 0820943.99W	Y		IF					WANSA.JOOLS4
JEENI	335021.72N / 0820938.11W	Y	FB	TF	000.59	07.91			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	000.72	24.69			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS4
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS4
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KAFP,KDCM,KEQY, KLKR,KN52,KUZA, KVUJ				FM	063.00				
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS4
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			



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<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>
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KAKH,KEHO,KIPJ, KJQF,KRUQ				FM	043.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KCLT:RWY 1L,RWY 1R,RWY 36				FM	063.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KCLT:RWY 18,RWY 19L,RWY 19R				FM	043.00				

