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.

Superseded Number

**FOUR** 

STAR Computer Code

STUBL RAZRR5

Number

FIVE

			IIVL	310DL.IV-ZIVIV			I OUIX		0112112010
TRANSITION ROUTI	ES:								
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
FAANG	FAANG.RAZRR5	FAANG	FAANG						
			STUBL	269.20	66.82	16000	15500		BETWEEN FL240 AND FL270
KNGRY	KNGRY.RAZRR5	KNGRY	KNGRY						
			GYLET	231.57	76.36	FL240	15800		
			STUBL	240.50	47.26	16000	14300		BETWEEN FL240 AND FL270
MDOWS	MDOWS.RAZRR5	MDOWS	MDOWS						
			STSHH	181.38	103.51	FL200	13700		
			STUBL	181.04	54.50	16000	12500		BETWEEN FL240 AND FL270
RUSME	RUSME.RAZRR5	RUSME	RUSME						
			CANDA	251.46	60.71	FL210	16000		
			STUBL	247.47	56.51	16000	16000		BETWEEN FL240 AND FL270

#### ARRIVAL ROUTE DESCRIPTION:

Arrival Name

RAZRR (RNAV)

FROM STUBL ON TRACK 249.52/21.02 TO CROSS RAZRR BETWEEN FL200 AND FL220, THEN ON TRACK 249.17/18.06 TO CROSS OUCHH BETWEEN 16000 AND FL190, THEN ON TRACK 249.17/18.03 TO CROSS NIKKT BETWEEN 10000 AND 14000.

EAST TRANSITION LANDING RWY 12L/R: FROM NIKKT ON TRACK 239.69/12.14 TO CROSS GOTEE BETWEEN 10000 AND 12000 AND AT 280 KIAS, THEN ON TRACK 239.96/7.43 TO SHIKK, THEN ON TRACK 281.44/11.74 TO CROSS TRCOT AT OR ABOVE 9000 AND AT 240 KIAS, THEN ON TRACK 281.24/6.36 TO CROSS GGUGL BETWEEN 7000 AND 8000, THEN ON TRACK 318.31/4.47 TO CROSS GARRY AT OR ABOVE 5800, THEN ON TRACK 318.28/2.80 TO CROSS EDMND AT OR ABOVE 5600, THEN ON TRACK 318.26/4.30 TO CROSS JESEN AT OR ABOVE 4100, THEN ON TRACK 305.51/2.30 TO CROSS HITIR AT 4000, THEN ON TRACK 305.51. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

WEST TRANSITION LANDING RWY 30L/R: FROM NIKKT ON TRACK 265.23/13.29 TO CROSS SEKKO BETWEEN 8000 AND 10000 AND AT 250 KIAS, THEN ON TRACK 264.99/11.12 TO CROSS SCOPR BETWEEN 5000 AND 7000, THEN ON TRACK 264.85/4.00 TO CROSS KLIDE AT OR ABOVE 4000 AND AT 230 KIAS. EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

#### PBN REQUIREMENT NOTES

RNAV 1 - DME/DME/IRU OR GPS

### **EQUIPMENT REQUIREMENT NOTES**

RADAR REQUIRED

### PROCEDURAL DATA NOTES:

NOTE: EXPECT TO RECEIVE TRANSITION (EAST/WEST) AND "DESCEND VIA" CLEARANCE FROM OAKLAND CENTER. NORTHERN CALIFORNIA TRACON WILL ASSIGN LANDING RUNWAY.

NOTE: WEST TRANSITION INDICATES RWYS 30L/R.

NOTE: EAST TRANSITION INDICATES RWYS 12L/R.

NOTE: EXPECT WEST TRANSITION UNLESS OTHERWISE ADVISED.

#### FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT RAZRR: HOLD E, LT, 249.52 INBOUND, 10 NM LEGS.

CHART HOLDING AT SCOPR: HOLD E, LT, 264.99 INBOUND, 8 NM LEGS.

Effective Date

14JUI Y2022

Dated

07/21/2016

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.

Arrival Name RAZRR (RNAV)	Number <b>FIVE</b>	STAR Computer Code STUBL.RAZRR5	Superseded Number FOUR	Dated <b>07/21/2016</b>	Effective Date 14JULY2022
COMMUNICATIONS:		0.02		01/21/2010	
CHART: ZOA.					
CHART: NORCAL APP CON.					
CHART: TWR.					
CHART: GND CON.					
AIRPORTS SERVED:					
NORMAN Y MINETA SAN JOSE INTL, SAN JOSE, CA (	(KSJC)				
LOST COMMUNICATIONS PROCEDURE:					
REMARKS:					
MEAS BASED ON MINIMUM DME/DME ASSESSMENT.					
ADDITIONAL FLIGHT DATA:					
DME/DME ASSESSMENT: SAT (RNP 2.0)					
REFERENCE MAGNETIC VARIATION = KSJC 13E/202	0.				
CHART AT HITIR TERMINUS: KSJC LDG RWY 12L/R.					
CHART AT KLIDE TERMINUS: KSJC LDG RWY $30L/R$ .				Digitally sign	ed by
ELIGHT INSPECTED BY:				DONALD H L	
GARY J VEER		FPO	11/02/2021	Mar 16, 20	22
Name		Organization	1 1/02/202 1 ⊔ate	Signature Digitally signed	l bv
DEVELOPED BY:				NICHOLAS JAC	•
NICHOLAS K. JACKSON		AJV-A431	09/29/2021	Mar 15, 202	
Name		Organization	Date	Signature	_
APPROVED BY:				Digitally signed by	
LONNIE EVERHART		AJV-A430		DONALD H LANIER	
				14 40 0000	

Date

Organization

## CHANGES:

1. REMOVED ZORSA FROM RWY 12L/R TRANSITION.

Name

- 2. CHANGED HITIR FROM FLYBY TO FLYOVER WAYPOINT WITH 306 TRACK FM LEG.
- 3. CHANGED ALTITUDE CROSSING RESTRICTION FROM AT OR ABOVE 8000 TO 8000B10000 AT SEKKO.
- 4. CHANGED ALTITUDE CROSSING RESTRICTION FROM AT OR ABOVE 5000 TO 5000B7000 AT SCOPR.
- 5. CHANGED ALTITUDE CROSSING RESTRICTION FROM FL240BFL280 TO FL240BFL270 AT STUBL.
- 6. ADDED RUNWAY TERMINUS DATA TO ADDITIONAL FLIGHT DATA.

Mar 16, 2022 Signature

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAZRR (RNAV)	FIVE	STUBL.RAZRR5	FOUR	07/21/2016	14JULY2022

- 7. REMOVED MEAS FROM COMMON ROUTE AND RUNWAY TRANSITIONS.
- 8. RAISED MEA FROM RUSME TO CANDA FROM FL200 TO FL210.
- 9. REMOVED DO NOT CHART MOCAS.
- 10. ADDED DO NOT CHART MOCAS ABOVE FL180.
- 11. UPDATED MOCA DATA IN TRANSITION ROUTES.
- 12. CHANGED RWY 30L/R ARRIVAL ROUTE DESCRIPTION TO: EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

### **REASONS:**

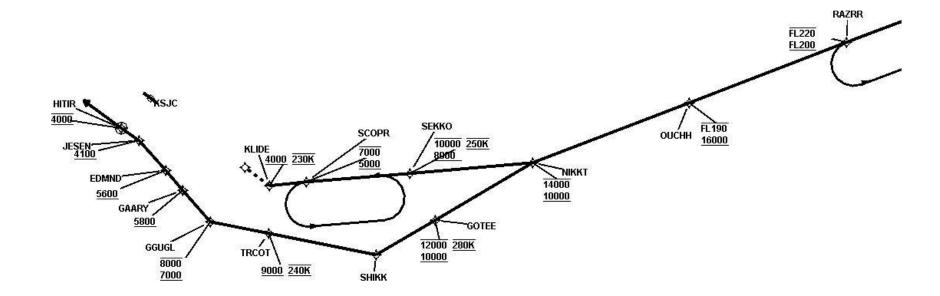
- 1-2. ATC REQUEST.
- 3-5. ATC/INDUSTRY REQUEST TO FACILITATE DESCENT TO IAF.
- 6-7. CONFORM TO CRITERIA.
- 8. CONFORM TO NEW DME/DME ASSESSMENT ANALYSIS.
- 9-10. IAW AFS MEMO DATED 7-1-21.
- 11. NEW TERRAIN ANLAYSIS.
- 12. PER AIS REQUEST AND COORDINATION WITH NCT ATC.

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAZRR (RNAV)	FIVE	STUBL.RAZRR5	FOUR	07/21/2016	14JULY2022

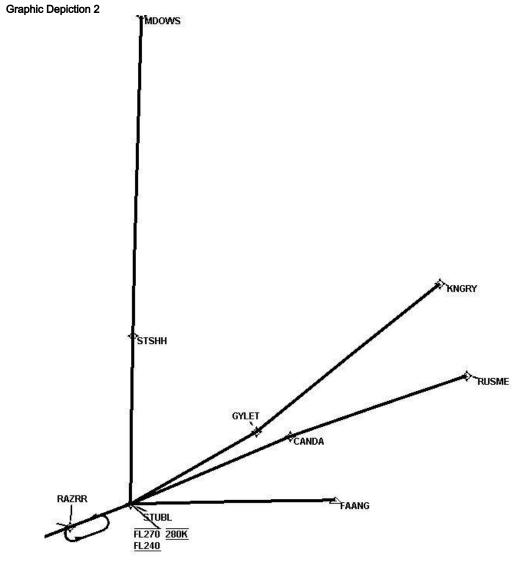
**Graphic Depiction 1** 



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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAZRR (RNAV)	FIVE	STUBL.RAZRR5	FOUR	07/21/2016	14JULY2022



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

Arrival Name RAZRR (RNAV)			Number FIVE		TAR Comp		Superseded <b>FO</b> U		Dated <b>07/21/2016</b>	Effective Date 14JULY2022
FIX/NAVAID	LAT/LONG	С	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
En Route Transition										
FAANG	365959.81N / 1183502.72W	Υ		IF					FAANG.RAZRR5	
STUBL	371339.90N / 1195649.16W	Υ	FB	TF	282.20	66.82	FL240BFL270	AT 280K		
En Route Transition										
KNGRY	380041.60N / 1173328.28W	Υ		IF					KNGRY.RAZRR5	
GYLET	372720.00N / 1190005.00W	Υ	FB	TF	244.57	76.36				
STUBL	371339.90N / 1195649.16W	Υ	FB	TF	253.50	47.26	FL240BFL270	AT 280K		
En Route Transition										
MDOWS	394703.41N / 1190741.96W	Υ		IF					MDOWS.RAZRR5	
STSHH	380636.88N / 1194016.09W	Υ	FB	TF	194.38	103.51				
STUBL	371339.90N / 1195649.16W	Υ	FB	TF	194.04	54.50	FL240BFL270	AT 280K		
En Route Transition										
RUSME	372939.00N / 1173112.00W	Υ		IF					RUSME.RAZRR5	
CANDA	372322.53N / 1184701.91W	Υ	FB	TF	264.46	60.71				
STUBL	371339.90N / 1195649.16W	Υ	FB	TF	260.47	56.51	FL240BFL270	AT 280K		
Common Route										
STUBL	371339.90N / 1195649.16W	Υ		IF			FL240BFL270	AT 280K	STUBL.RAZRR5	
RAZRR	371052.68N / 1202253.99W	Υ	FB	TF	262.52	21.02	FL200BFL220			
OUCHH	370822.66N / 1204516.83W	Υ	FB	TF	262.17	18.06	16000BFL190			
NIKKT	370553.11N / 1210736.15W	Υ	FB	TF	262.17	18.03	10000B14000			
Runway Transition										
NIKKT	370553.11N / 1210736.15W	Υ		IF			10000B14000			
GOTEE	370215.11N / 1212205.05W	Υ	FB	TF	252.69	12.14	10000B12000	AT 280K		QUALITY
SHIKK	370003.89N / 1213057.39W	Υ	FB	TF	252.96	07.43				45
TRCOT	370455.06N / 1214419.08W	Υ	FB	TF	294.44	11.74	AT/ABOVE 9000	AT 240K		WECKER
	· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·	· ·	

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

Arrival Name RAZRR (RNAV)		Number FIVE		STAR Computer Code STUBL.RAZRR5			Superseded Number FOUR		Dated <b>07/21/2016</b>	Effective Date 14JULY2022
FIX/NAVAID	LAT/LONG	С	FO/FB	LEG TYPE	тс	DIST (NM)	ALTITUDE	SPEED	REMARKS	
GGUGL	370731.68N / 1215134.20W	Υ	FB	TF	294.24	06.36	7000B8000			
GAARY	371127.41N / 1215415.50W	Υ	FB	TF	331.31	04.47	AT/ABOVE 5800			
EDMND	371354.91N / 1215556.59W	Υ	FB	TF	331.28	02.80	AT/ABOVE 5600			
JESEN	371741.39N / 1215832.05W	Υ	FB	TF	331.26	04.30	AT/ABOVE 4100			
HITIR	371924.84N / 1220026.61W	Υ	FO	TF	318.51	02.30	AT 4000			
KSJC:RWY 12L,RWY 12R				FM	318.51					
Runway Transition										
NIKKT	370553.11N / 1210736.15W	Υ		IF			10000B14000			
SEKKO	370746.31N / 1212403.01W	Υ	FB	TF	278.23	13.29	8000B10000	AT 250K		
SCOPR	370918.30N / 1213749.32W	Υ	FB	TF	277.99	11.12	5000B7000			
KLIDE	370951.03N / 1214246.98W	Υ	FB	TF	277.85	04.00	AT/ABOVE 4000	AT 230K		
KSJC:RWY 30L,RWY 30R										

