

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>THRNE RNAV</b>	<b>ONE</b>	<b>THRNE.THRNE1</b>	<b>NONE</b>		<b>27 APR 2017</b>

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
PHRED	PHRED.THRNE1	PHRED	PHRED						
			FOILD	264.85	53.07	17000	5900		
			QUTIP	264.99	11.85	17000	4600		AT/BELOW FL290
			VLLMA	265.11	09.67	17000	6200		
			DROGO	264.69	10.93	17000	7600		AT/ABOVE FL240
			DEWWW	264.96	15.23	17000	7700		AT/ABOVE FL210
			DNERY	263.32	11.87	13000	7700		AT/BELOW FL200
			ARRYA	264.57	08.41	13000	5500		AT 16000
			YATZE	268.78	06.71	13000	12300		BETWEEN 14000 AND 15000
			IRONN	268.80	15.54	13000	12300		AT 13000
			THRNE	274.04	06.94	8000	7100		BETWEEN 10000 AND 11000

ARRIVAL ROUTE DESCRIPTION:

LANDING KBUR: FROM THRNE ON TRACK 274.12/20.84 TO CROSS CRCUS AT 10000, THEN ON TRACK 268.59/25.60 TO CROSS NNEDD AT 8000, THEN ON TRACK 253.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KSMO: FROM THRNE ON TRACK 274.12/20.84 TO CROSS CRCUS AT 10000, THEN ON TRACK 265.58/17.34 TO CROSS SMEGL AT OR ABOVE 6800, THEN ON TRACK 265.34/8.33 TO CROSS JOFRY AT 6000, THEN ON TRACK 265.34. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KVNY: FROM THRNE ON TRACK 274.12/20.84 TO CROSS CRCUS AT 10000, THEN ON TRACK 268.59/25.60 TO CROSS NNEDD AT 8000, THEN ON TRACK 272.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AND TURBOPROP AIRCRAFT ONLY

NOTE: EXPECT LOCAL AREA ALTIMETER SETTING REACHING FL200.

FIXES AND/OR HOLDING PATTERNS:

CHART: LITNG AS STANDALONE

CHART: HOLDING AT LITNG (HOLD E, LEFT TURNS, HEADING 264.04 INBOUND, 10 NM LEGS)

COMMUNICATIONS:

SOCAL APP CON

BOB HOPE ATIS, ATCT

SANTA MONICA ATIS, ATCT

VAN NUYS ATIS, ATCT

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THRNE RNAV	ONE	THRNE.THRNE1	NONE		27 APR 2017

AIRPORTS SERVED:

BOB HOPE, BURBANK, CA  
SANTA MONICA MUNI, SANTA MONICA, CA  
VAN NUYS, VAN NUYS, CA

LOST COMMUNICATIONS PROCEDURE:REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)  
REFERENCE MAGNETIC VARIATION = KBUR 12E/2020  
DO NOT CHART MOCAS.

FLIGHT INSPECTED BY:

JAMES M MEEK  
Name

FIOG  
Organization

2/16/2017  
Date

*Digitally signed by*

**BEV L BORDY**

Feb 17, 2017 Signature

DEVELOPED BY:

Robert E. Henry, FAA-Lead  
Jose Gonzalez, NATCA Co-Lead  
Name

Southern California Metroplex  
Organization

12/19/16  
Date

*Digitally signed by*

**BEV L BORDY**

Feb 17, 2017

*Digitally signed by* Signature

**BEV L BORDY**

Feb 17, 2017

APPROVED BY:

Tracy Johnson  
Name

Manager, OSG WSC, AJV-W2  
Organization

Date

Signature

CHANGES:REASONS:

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
<b>En Route Transition</b>									
PHRED	333844.70N / 1140718.30W	Y		IF					PHRED.THRNE1
FOILD	334448.96N / 1151029.85W	Y	FB	TF	276.85	53.07			
QUTIP	334614.81N / 1152436.17W	Y	FB	TF	276.99	11.85	AT/BELOW FL290		
VLLMA	334726.21N / 1153607.07W	Y	FB	TF	277.11	09.67			
DROGO	334842.05N / 1154908.56W	Y	FB	TF	276.69	10.93	AT/ABOVE FL240		
DEWWW	335031.65N / 1160717.85W	Y	FB	TF	276.96	15.23	AT/ABOVE FL210		
DNERY	335136.94N / 1162129.39W	Y	FB	TF	275.32	11.87	AT/BELOW FL200		
ARRYA	335234.36N / 1163131.42W	Y	FB	TF	276.57	08.41	AT 16000		
YATZE	335349.49N / 1163926.31W	Y	FB	TF	280.78	06.71	14000B15000		
IRONN	335643.16N / 1165747.10W	Y	FB	TF	280.80	15.54	AT 13000		
THRNE	335838.23N / 1170548.56W	Y	FB	TF	286.04	06.94	10000B11000		
<b>Common Route</b>									
THRNE	335838.23N / 1170548.56W	Y		IF			10000B11000		LANDING KBUR THRNE.THRNE1
CRCUS	340423.53N / 1172954.38W	Y	FB	TF	286.12	20.84	AT 10000		
NNEDD	340902.59N / 1180013.66W	Y	FO	TF	280.59	25.60	AT 8000		
KBUR				FM	265.00				RECOMMENDED NAVAID: TFD VORTAC
<b>Common Route</b>									
THRNE	335838.23N / 1170548.56W	Y		IF			10000B11000		LANDING KSMO THRNE.THRNE1
CRCUS	340423.53N / 1172954.38W	Y	FB	TF	286.12	20.84	AT 10000		
SMEGL	340639.28N / 1175036.78W	Y	FB	TF	277.58	17.34	AT/ABOVE 6800		
JOFRY	340742.84N / 1180034.19W	Y	FO	TF	277.34	08.33	AT 6000		
KSMO				FM	277.34				RECOMMENDED NAVAID: TFD VORTAC

QUALITY  
17  
CHECKED

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Common Route									
THRNE	335838.23N / 1170548.56W	Y		IF			10000B11000		LANDING KVNY THRNE.THRNE1
CRCUS	340423.53N / 1172954.38W	Y	FB	TF	286.12	20.84	AT 10000		
NNEDD	340902.59N / 1180013.66W	Y	FO	TF	280.59	25.60	AT 8000		
KVNY				FM	284.00				RECOMMENDED NAVAID: TFD VORTAC

