US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1 Bearings headings courses and radials are listed to the nearest hundredth (e.g. 360.00)
2 Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3 Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
GALLUP	GUP.LOWBO1	GUP VORTAC	BUKEE	077.33/25.18	FL250	10300		
			WSTRN	083.44/33.15	FL200	11000		+FL210/-FL250
			LOWBO	083.17/15.96	14000	11400		
ROSEI	ROSEI.LOWBO1	ROSEI	TANER	142.33/17.09	FL250	9800		-FL280
			FORUN	162.03/10.95	FL200	9700		+FL210/-FL250
			LOWBO	161.76/15.96	14000	11400		

(2) Arrival Route Description: LANDING RWYS 3/8: FROM OVER LOWBO ON TRACK 111.51/06.79 TO CROSS JOKLO AT OR ABOVE 14000 AND AT OR BELOW FL180 AT 250 KTS (MEA 14000), THEN ON TRACK 110.92/08.29 TO ITUNE (MEA 10200), THEN ON TRACK 125.37/04.61 TO CROSS MUSCC AT OR ABOVE 9000 AND AT OR BELOW 12000 (MEA 8900), THEN ON TRACK 126.46/04.76 TO CROSS DWNLD AT OR ABOVE 9000 AND AT OR BELOW 11000 (MEA 8600), THEN ON TRACK 124.60/05.87 TO CROSS CMSTR AT 9000 AT 210 KTS (MEA 8400). EXPECT RNAV (RNP) APPROACH.
LANDING RWYS 21/26: FROM OVER LOWBO ON TRACK 111.51/06.79 TO CROSS JOKLO AT OR ABOVE 14000 AND AT OR BELOW FL180 AT 250 KTS (MEA 14,000), THEN ON TRACK 110.92/08.29 TO ITUNE (MEA 10200), THEN ON TRACK 097.16/10.85 TO CROSS SDUNX AT OR ABOVE 9000 AND AT OR BELOW 11000 (MEA 8800), THEN ON TRACK
Continued on block 16...

(3) Procedural Data Notes: CROSS WSTRN AT 270 KTS. CROSS FORUN AT 270 KTS.
NOTE: RADAR REQUIRED.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: CHART NOT TO SCALE.
NOTE: APPLICABLE FOR TURBOJET AIRCRAFT ONLY.
NOTE: GUP TRANSITION: FOR NON GPS EQUIPPED AIRCRAFT, RSK AND SAF MUST BE OPERATIONAL.
NOTE: ROSEI TRANSITION: FOR NON GPS EQUIPPED AIRCRAFT, SAF MUST BE OPERATIONAL.
NOTE: FOR NON-RNP AIRCRAFT, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
NOTE: CHART AT OR ABOVE FL290 AT ROSEI.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT BUKEE: HOLD W, LT, 077.33 INBOUND, 12 NM LEGS.
CHART HOLDING AT TANER: HOLD NW, RT, 142.33 INBOUND, 12 NM LEGS.
CHART HOLDING AT LOWBO: HOLD W, LT, 111.51 INBOUND, 8 NM LEGS.
CHART HOLDING AT JOKLO: HOLD W, LT, 111.51 INBOUND, 8 NM LEGS.

(5) Communications: ABQ ARTCC, ABQ APP CON, ABQ ATIS.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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(12) Airports Served	
Airport Name ALBUQUERQUE INTL SUNPORT	City/State ALBUQUERQUE, NM
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure: STANDARD.

(14) Remarks: REFERENCE MAGNETIC VARIATION = KABQ 11E/1995

(15) Additional Flight Data: (DO NOT CHART) DME/DME ASSESSMENT: SAT (RNP 2.0)

QUALITY CHECKED 4

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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(16) Continuation:

(2) Arrival Route Description:

097.36/5.02 TO CROSS PASEO AT OR ABOVE 9000 AND AT OR BELOW 10000 (MEA 8600), THEN ON TRACK 097.42/5.02 TO CROSS NODME AT 9000 AT 210 KTS (MEA 8300). EXPECT RNAV (RNP) APPROACH.

(17) Changes:

(18) Reasons for Changes:

8/28/20'2: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 4/5/2012.
1. CHANGED ALL RWY TRANSITIONS FROM EXPECTING RADAR VECTORS TO EXPECTING RNAV (RNP) APPROACH.
2. REMOVED "LANDING RWY" NOTES AND REPLACED WITH "NON-RNP AIRCRAFT" NOTE.
3. CHANGED HOLDING AT TANER FROM 8NM LEGS TO 12NM LEGS.
4. CHANGED HOLDING AT JOKLO FROM 12NM LEGS TO 8NM LEGS.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
GUP VORTAC	352833.60N / 1085221.40W	Y		IF					GUP.LOWBO1
BUKEE	352913.82N / 1082132.39W	Y	FB	TF	088.33	25.18			HOLD W,LT, 077.33 INBOUND.
WSTRN	352632.71N / 1074105.74W	Y	FB	TF	094.44	33.15	+FL210/-FL250	270	
LOWBO	352521.37N / 1072137.15W	Y	FB	TF	094.17	15.96			HOLD W, LT, 111.51 INBOUND
En Route Transition									
ROSEI	360723.91N / 1073509.05W	Y		IF			+FL290		ROSEI.LOWBO1
TANER	355205.77N / 1072542.57W	Y	FB	TF	153.33	17.09	-FL280		HOLD NW,RT, 142.33 INBOUND
FORUN	354112.68N / 1072404.74W	Y	FB	TF	173.03	10.95	+FL210/-FL250	270	
LOWBO	352521.37N / 1072137.15W	Y	FB	TF	172.76	15.96			HOLD W, LT, 111.51 INBOUND
Common Route									LOWBO.LOWBO1
LOWBO	352521.37N / 1072137.15W	Y		IF					HOLD W, LT, 111.51 INBOUND
JOKLO	352141.93N / 1071437.24W	Y	FB	TF	122.51	06.79	+14000/-FL180	250	HOLD W, LT, 111.51 INBOUND
ITUNE	351718.20N / 1070601.53W	Y	FB	TF	121.92	08.29			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Runway Transition									
ITUNE	351718.20N / 1070601.53W	Y		IF					RW03.LOWBO1
MUSCC	351357.61N / 1070208.56W	Y	FB	TF	136.37	04.61	+9000/-12000		
DWNLD	351026.96N / 1065813.21W	Y	FB	TF	137.46	04.76	+9000/-11000		
CMSTR	350614.97N / 1065313.01W	Y	FB	TF	135.60	05.87	9000	210	
RW03									
Runway Transition									
ITUNE	351718.20N / 1070601.53W	Y		IF					RW08.LOWBO1
MUSCC	351357.61N / 1070208.56W	Y	FB	TF	136.37	04.61	+9000/-12000		
DWNLD	351026.96N / 1065813.21W	Y	FB	TF	137.46	04.76	+9000/-11000		
CMSTR	350614.97N / 1065313.01W	Y	FB	TF	135.60	05.87	9000	210	
RW08									
Runway Transition									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
ITUNE	351718.20N / 1070601.53W	Y		IF					RW21.LOWBO1
SDUNX	351354.37N / 1065326.46W	Y	FB	TF	108.16	10.85	+9000/-11000		
PASEO	351219.12N / 1064737.27W	Y	FB	TF	108.36	05.02	+9000/-10000		
NODME	351043.64N / 1064148.51W	Y	FB	TF	108.42	05.02	9000	210	
RW21									
Runway Transition									
ITUNE	351718.20N / 1070601.53W	Y		IF					RW26.LOWBO1
SDUNX	351354.37N / 1065326.46W	Y	FB	TF	108.16	10.85	+9000/-11000		
PASEO	351219.12N / 1064737.27W	Y	FB	TF	108.36	05.02	+9000/-10000		
NODME	351043.64N / 1064148.51W	Y	FB	TF	108.42	05.02	9000	210	
RW26									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV ARRIVAL	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        GUP   K2011510VTH  N35283360W108522140    N35283360W108522140E0140070532     NARGALLUP

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUKEE K20    W   H N35291382W108213239                      E0098     NAR           BUKEE
        SUSAEAENRT   CMSTR K20    W   L N35061497W106531301                      E0092     NAR           CMSTR
        SUSAEAENRT   DWNLD K20    W   L N35102696W106581321                      E0092     NAR           DWNLD
        SUSAEAENRT   FORUN K20    W   H N35411268W107240474                      E0095     NAR           FORUN
        SUSAEAENRT   ITUNE K20    W   L N35171820W107060153                      E0093     NAR           ITUNE
        SUSAEAENRT   JOKLO K20    W   B N35214193W107143724                      E0094     NAR           JOKLO
        SUSAEAENRT   LOWBO K20    W   B N35252137W107213715                      E0094     NAR           LOWBO
        SUSAEAENRT   MUSCC K20    W   L N35135761W107020856                      E0093     NAR           MUSCC
        SUSAEAENRT   NODME K20    C   L N35104364W106414851                      E0091     NAR           NODME
        SUSAEAENRT   PASEO K20    W   L N35121912W106473727                      E0092     NAR           PASEO
        SUSAEAENRT   ROSEI K20    W   H N36072391W107350905                      E0096     NAR           ROSEI
        SUSAEAENRT   SDUNX K20    W   L N35135437W106532646                      E0092     NAR           SDUNX
        SUSAEAENRT   TANER K20    C   B N35520577W107254257                      E0095     NAR           TANER
        SUSAEAENRT   WSTRN K20    W   H N35263271W107410574                      E0096     NAR           WSTRN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2AABQ     0     137YHN35022470W106363310E011005355         1800018000C    MNAR    ALBUQUERQUE INTL SUNPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2ELOWBO14GUP   010GUP  K2D 0V       IF                                          18000
        SUSAP KABQK2ELOWBO14GUP   020BUKEEK2EA0E  H 010TF                    07730252
        SUSAP KABQK2ELOWBO14GUP   030WSTRNK2EA0E    010TF                    08340332    B FL250FL210     270
        SUSAP KABQK2ELOWBO14GUP   040LOWBOK2EA0EE H 010TF                    08320160
        SUSAP KABQK2ELOWBO14ROSEI 010ROSEIK2EA0E       IF                                + FL290     18000
        SUSAP KABQK2ELOWBO14ROSEI 020TANERK2EA0E  H 010TF                    14230171    - FL280
        SUSAP KABQK2ELOWBO14ROSEI 030FORUNK2EA0E    010TF                    16200110    B FL250FL210     270
        SUSAP KABQK2ELOWBO14ROSEI 040LOWBOK2EA0EE H 010TF                    16180160
        SUSAP KABQK2ELOWBO15      010LOWBOK2EA0E  H    IF                                          18000
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QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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STAR (Data Record)

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SUSAP KABQK2ELOWBO15       020JOKLOK2EA0E  H 010TF                    11150068    B FL18014000     250
SUSAP KABQK2ELOWBO15       030ITUNEK2EA0EE   010TF                    11090083
SUSAP KABQK2ELOWBO16RW03   010ITUNEK2EA0E       IF                                            18000
SUSAP KABQK2ELOWBO16RW03   020MUSCCK2EA0E    010TF                    12540046    B 1200009000
SUSAP KABQK2ELOWBO16RW03   030DWNLDK2EA0E    010TF                    12650048    B 1100009000
SUSAP KABQK2ELOWBO16RW03   040CMSTRK2EA0EE   010TF                    12460059      09000          210
SUSAP KABQK2ELOWBO16RW08   010ITUNEK2EA0E       IF                                            18000
SUSAP KABQK2ELOWBO16RW08   020MUSCCK2EA0E    010TF                    12540046    B 1200009000
SUSAP KABQK2ELOWBO16RW08   030DWNLDK2EA0E    010TF                    12650048    B 1100009000
SUSAP KABQK2ELOWBO16RW08   040CMSTRK2EA0EE   010TF                    12460059      09000          210
SUSAP KABQK2ELOWBO16RW21   010ITUNEK2EA0E       IF                                            18000
SUSAP KABQK2ELOWBO16RW21   020SDUNXK2EA0E    010TF                    09720109    B 1100009000
SUSAP KABQK2ELOWBO16RW21   030PASEOK2EA0E    010TF                    09740050    B 1000009000
SUSAP KABQK2ELOWBO16RW21   040NODMEK2EA0EE   010TF                    09740050      09000          210
SUSAP KABQK2ELOWBO16RW26   010ITUNEK2EA0E       IF                                            18000
SUSAP KABQK2ELOWBO16RW26   020SDUNXK2EA0E    010TF                    09720109    B 1100009000
SUSAP KABQK2ELOWBO16RW26   030PASEOK2EA0E    010TF                    09740050    B 1000009000
SUSAP KABQK2ELOWBO16RW26   040NODMEK2EA0EE   010TF                    09740050      09000          210
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2GRW03    0100000338 N35012009W106375017+0100    +15957053050000060150IIBZY1
        SUSAP KABQK2GRW08    0137930794 N35023960W106370569+0300    +15987053151000054150IISPT1
        SUSAP KABQK2GRW21    0100002138 N35023027W106362546-0100    +15992053160000055150R
        SUSAP KABQK2GRW26    0137932595 N35023863W106343189-0300    +16112053550000050150R
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QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GUP	GUP	010		IF		FB					
	GUP	BUKEE	020		TF		FB	1.0	077.3()	025.2		
	GUP	WSTRN	030		TF		FB	1.0	083.4()	033.2	BT FL250FL210	AT 270
	GUP	LOWBO	040		TF		FB	1.0	083.2()	016.0		
	ROSEI	ROSEI	010		IF		FB				AA FL290	
	ROSEI	TANER	020		TF		FB	1.0	142.3()	017.1	AB FL280	
	ROSEI	FORUN	030		TF		FB	1.0	162.0()	011.0	BT FL250FL210	AT 270
	ROSEI	LOWBO	040		TF		FB	1.0	161.8()	016.0		
		LOWBO	010		IF		FB					
		JOKLO	020		TF		FB	1.0	111.5()	006.8	BT FL18014000	AT 250
		ITUNE	030		TF		FB	1.0	110.9()	008.3		
	RW03	ITUNE	010		IF		FB					
	RW03	MUSCC	020		TF		FB	1.0	125.4()	004.6	BT 1200009000	
	RW03	DWNLD	030		TF		FB	1.0	126.5()	004.8	BT 1100009000	
	RW03	CMSTR	040		TF		FB	1.0	124.6()	005.9	AT 09000	AT 210
	RW08	ITUNE	010		IF		FB					
	RW08	MUSCC	020		TF		FB	1.0	125.4()	004.6	BT 1200009000	
	RW08	DWNLD	030		TF		FB	1.0	126.5()	004.8	BT 1100009000	
	RW08	CMSTR	040		TF		FB	1.0	124.6()	005.9	AT 09000	AT 210
	RW21	ITUNE	010		IF		FB					
	RW21	SDUNX	020		TF		FB	1.0	097.2()	010.9	BT 1100009000	
	RW21	PASEO	030		TF		FB	1.0	097.4()	005.0	BT 1000009000	
	RW21	NODME	040		TF		FB	1.0	097.4()	005.0	AT 09000	AT 210
	RW26	ITUNE	010		IF		FB					
	RW26	SDUNX	020		TF		FB	1.0	097.2()	010.9	BT 1100009000	
	RW26	PASEO	030		TF		FB	1.0	097.4()	005.0	BT 1000009000	
	RW26	NODME	040		TF		FB	1.0	097.4()	005.0	AT 09000	AT 210

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GUP	N352833.60	W1085221.40	N3528.560	W10852.357
	BUKEE	N352913.82	W1082132.39	N3529.230	W10821.540
	CMSTR	N350614.97	W1065313.01	N3506.250	W10653.217
	DWNLD	N351026.96	W1065813.21	N3510.449	W10658.220
	FORUN	N354112.68	W1072404.74	N3541.211	W10724.079
	ITUNE	N351718.20	W1070601.53	N3517.303	W10706.026
	JOKLO	N352141.93	W1071437.24	N3521.699	W10714.621
	LOWBO	N352521.37	W1072137.15	N3525.356	W10721.619

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

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STAR (Data Record)

MUSCC	N351357.61	W1070208.56	N3513.960	W10702.143
NODME	N351043.64	W1064148.51	N3510.727	W10641.809
PASEO	N351219.12	W1064737.27	N3512.319	W10647.621
ROSEI	N360723.91	W1073509.05	N3607.399	W10735.151
SDUNX	N351354.37	W1065326.46	N3513.906	W10653.441
TANER	N355205.77	W1072542.57	N3552.096	W10725.710
WSTRN	N352632.71	W1074105.74	N3526.545	W10741.096
RW03	N350120.09	W1063750.17	N3501.335	W10637.836
RW08	N350239.60	W1063705.69	N3502.660	W10637.095
RW21	N350230.27	W1063625.46	N3502.505	W10636.424
RW26	N350238.63	W1063431.89	N3502.644	W10634.532

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW03	05305	60
RW08	05315	54
RW21	05316	55
RW26	05355	50

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LOWBO RNAV	ONE	LOWBO.LOWBO1	NONE		10 JAN 2013

FAA Form 7100-3 (9/02)