

US DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

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 depiction attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	05/26/2016

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
Transition Routes:									
HUGO	HGO.QUAIL8	HGO VOR/DME	CONAL QUAIL	311.63 (HGO R-312)	24.41	10500	8500	FL450	
				311.63 (HGO R-312)	11.09	10500	8500	FL450	
LAMAR	LAA.QUAIL8	LAA VOR/DME	HYMNS HGO VOR/DME CONAL QUAIL	298.51 (LAA R-299)	32.59	10500	6900	FL450	
				302.92 (HGO R-123)	25.00	10500	6900	FL450	
				311.63 (HGO R-312)	24.41	10500	8500	FL450	
				311.63 (HGO R-312)	11.09	10500	8500	FL450	
TODDE	TODDE.QUAIL8	TODDE	HGO VOR/DME CONAL QUAIL	352.65 (HGO R-173)	33.89	10500	8000	FL450	
				311.63 (HGO R-312)	24.41	10500	8500	FL450	
				311.63 (HGO R-312)	11.09	10500	8500	FL450	

ARRIVAL ROUTE DESCRIPTION:

....From over QUAIL on HGO R-312 and FQF R-127 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

PRODEDURAL DATA NOTES: : **VERTICAL NAVAGATION PLANNING INFORMATION** TURBOJETS: Expect to cross QUAIL at 17000 and 250 KIAS or as assigned by ATC.

NOTE: DME REQUIRED.

NOTE: Adjacent STAR is DANDD ARRIVAL.

NOTE: RADAR REQUIRED.

FIXES AND/OR HOLDING PATTERNS: **CHART:** BRK, DEN, DVV, GLL, BJC, TXC. **CHART FIXES:** CELMI, JEFEL. **CHART HOLDING PATTERNS:** CONAL INT (HOLD SE, RT, 311.63 INBOUND), HYMNS INT (HOLD SE, LT, 302.92 INBOUND), QUAIL (HOLD SE, RT, 307.00 INBOUND), HGO VOR/DME (HOLD SE, LT, 311.63 INBOUND).

COMMUNICATIONS: CHART COMMUNICATIONS FOR DENVER APPROACH CONTROL, BUCKLEY AFB ATIS, CENTENNIAL ATIS, DENVER INTL ATIS ARR, FRONT RANGE ATIS, ROCKY MOUNTAIN METRO ATIS.



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Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	05/26/2016

AIRPORTS SERVED:

Airport Name: BUCKLEY AFB

Airport Name: CENTENNIAL

Airport Name: DENVER INTL

Airport Name: FORT COLLINS/ LOVELAND MUNI

Airport Name: FRONT RANGE

Airport Name: GREELEY – WELD COUNTY

Airport Name: ROCKY MOUNTAIN METROPOLITAN

City/State AURORA, CO

City/State DENVER, CO

City/State DENVER, CO

City/State FORT COLLINS/ LOVELAND, CO

City/State DENVER, CO

City/State GREELEY, CO

City/State DENVER, CO

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

ADDITIONAL FLIGHT DATA:



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	05/26/2016

FLIGHT INSPECTED BY:

PENDING

Name

Organization

Date

Signature

DEVELOPED BY:

Melissa G. Booth,

Name

Airspace and Procedures Manager,
Denver ARTCC

Organization

02/12/2016

Date



Signature

Digitally signed by

ALLAN WILL

Mar 24, 2016

APPROVED BY:

Allan Will

Name

AJV-5430

Organization

Date

Signature

CHANGES:

1. CHANGES ALL RADIALS AND BEARINGS FROM PUB BY +5 DEGREES.
2. CHANGES ALL RADIALS AND BEARINGS FROM HGO BY +5 DEGREES.
3. CHANGES PUB VOR/DME TO PUB VORTAC.
4. REPLACES ALL REFERENCES TO QUAIL INT TO QUAIL.
5. UPDATING HOLDING PATTERN AT HYMNS BY +5 DEGREES.
6. ADDED RADAR REQUIRED PROCEDURAL DATA NOTE.

REASONS:

- 1-2. Magnetic Variation for HGO (Hugo) VOR/DME changed from 12E to 7E. Magnetic Variation for PUB (Pueblo) VORTAC changed from 13E to 8E.
3. UPDATES NAVAID LIMITATION.
4. CORRECTS FOR FIX COMPOSITION.
5. HGO MAG VAR CHANGE.
6. RADAR VECTORS DEFINED IN ARRIVAL ROUTE.



US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KAPA

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
15
CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	
RUNWAY	LATITUDE	LONGITUDE	ELEVATION		
RW10	N393421.01	W1045048.80	05822		
RW17L	N393502.91	W1045105.31	05793		
RW17R	N393444.35	W1045113.39	05804		
RW28	N393405.46	W1044956.35	05794		
RW35L	N393335.23	W1045110.19	05869		
RW35R	N393324.15	W1045100.76	05885		

QUALITY
15
CHECKED

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KBJC

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
15
CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	
RUNWAY	LATITUDE	LONGITUDE	ELEVATION		
RW03	N395421.16	W1050705.08	05616		
RW12L	N395455.05	W1050742.29	05661		
RW12R	N395451.10	W1050753.55	05673		
RW21	N395450.53	W1050639.04	05600		
RW30L	N395412.12	W1050639.33	05595		
RW30R	N395404.95	W1050606.91	05566		



US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KBKF

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
15
CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	
RUNWAY	LATITUDE	LONGITUDE	ELEVATION		
RW14	N394253.93	W1044541.16	05591		
RW32	N394118.75	W1044433.04	05664		

QUALITY
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STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KDEN

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
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CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

RUNWAY	LATITUDE	LONGITUDE	ELEVATION
RW07	N395027.40	W1044335.96	05350
RW08	N395239.20	W1043944.03	05354
RW16L	N395349.33	W1044112.50	05350
RW16R	N395344.87	W1044145.90	05322
RW17L	N395153.83	W1043828.70	05328
RW17R	N395140.48	W1043936.56	05378
RW25	N395026.37	W1044102.17	05355
RW26	N395238.08	W1043710.15	05294
RW34L	N395106.79	W1044147.72	05327
RW34R	N395150.77	W1044113.88	05354
RW35L	N394941.93	W1043937.98	05434
RW35R	N394955.27	W1043830.16	05370

QUALITY
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US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KFNL

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
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STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

RUNWAY	LATITUDE	LONGITUDE	ELEVATION
RW06	N402710.08	W1050041.66	04990
RW15	N402744.21	W1050102.70	04973
RW24	N402717.53	W1050013.93	04987
RW33	N402625.08	W1050025.89	05016

QUALITY
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US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KFTG

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
15
CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

RUNWAY	LATITUDE	LONGITUDE	ELEVATION
RW08	N394738.42	W1043354.87	05450
RW17	N394708.15	W1043127.24	05473
RW26	N394736.82	W1043212.43	05485
RW35	N394549.10	W1043127.22	05512

QUALITY
15
CHECKED

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

ARINC SUMMARY - KGXY

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
HGO	010	HGO	IF	FB										V H
HGO	020	CONAL	TF	FB										E H
HGO	030	QUAIL	TF	FB										EE H
LAA	010	LAA	IF	FB										V
LAA	020	HYMNS	TF	FB										E H
LAA	030	HGO	TF	FB										V H
LAA	040	CONAL	TF	FB										E H
LAA	050	QUAIL	TF	FB										EE H
TODDE	010	TODDE	IF	FB										E
TODDE	020	HGO	TF	FB										V H
TODDE	030	CONAL	TF	FB										E H
TODDE	040	QUAIL	TF	FB										EE H
ALL	010	QUAIL	IF	FB										E H
ALL	020	JEFEL	TF	FB										E
ALL	030	CELM	TF	FB										E
ALL	040	FQF	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FQF	N394124.50	W1043715.50
HGO	N384903.00	W1033717.00
LAA	N381149.53	W1024115.12
CELM	N393611.96	W1043111.89
CONAL	N390721.32	W1035800.83
HYMNS	N383256.90	W1031250.57
JEFEL	N392150.39	W1041436.13
QUAIL	N391538.81	W1040729.62
TODDE	N381507.57	W1033659.43

RUNWAYS

THRESHOLD	THRESHOLD	THRESHOLD
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QUALITY
15
CHECKED

STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QUAIL	EIGHT	QUAIL.QUAIL8	SEVEN	11/15/2012	

RUNWAY	LATITUDE	LONGITUDE	ELEVATION
RW10	N402550.47	W1043846.02	04661
RW17	N402722.50	W1043756.05	04697
RW28	N402535.23	W1043733.72	04645
RW35	N402554.64	W1043751.65	04653

QUALITY
15
CHECKED