

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE GRAPHIC DEPARTURE PROCEDURES (DP)

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.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
SMMUR	TWO	SMMUR2.SMMUR	ONE	03/26/2020	10 SEP 20

TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 8: CLIMB ON HEADING 082.53 TO 5934, THEN RIGHT TURN DIRECT KIDNG AT OR BELOW 10000, THEN ON TRACK 155.43 TO TWWIN, THEN ON TRACK 194.10 TO CROSS FIGTR AT OR ABOVE 14000, THEN ON TRACK 223.15 TO CROSS WEPON AT OR ABOVE 16000, THEN ON TRACK 223.22 TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 16L/R: CLIMB ON HEADING 172.51 TO INTERCEPT COURSE 162.48 TO CROSS BOGEI AT OR BELOW 10000, THEN ON TRACK 200.27 TO CROSS SIGHT AT OR ABOVE 10000, THEN ON TRACK 204.46 TO CROSS SCRCY AT OR ABOVE 12000, THEN ON TRACK 204.33 TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 17L: CLIMB ON HEADING 172.54 TO 5934, THEN DIRECT RAYDR AT OR BELOW 10000, THEN ON TRACK 207.44 TO CROSS SIGHT AT OR ABOVE 10000, THEN ON TRACK 204.46 TO CROSS SCRCY AT OR ABOVE 12000, THEN ON TRACK 204.33 TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 17R: CLIMB ON HEADING 172.53 TO 5934, THEN DIRECT BOGEI AT OR BELOW 10000, THEN ON TRACK 200.27 TO CROSS SIGHT AT OR ABOVE 10000, THEN ON TRACK 204.46 TO CROSS SCRCY AT OR ABOVE 12000, THEN ON TRACK 204.33 TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 25: CLIMB ON HEADING 262.51 TO 5934, THEN LEFT TURN DIRECT BRKEM AT OR BELOW 10000, THEN ON TRACK 187.80 TO CROSS LENNN AT OR ABOVE 10000, THEN ON TRACK 160.37 TO TIKLR, THEN ON TRACK 143.63 TO CROSS CIROS AT OR ABOVE 14000, THEN ON TRACK 174.71 TO CROSS RKYMT AT OR ABOVE 16000, THEN ON TRACK 209.54 TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 34L: CLIMB ON HEADING 352.51 TO 5934, THEN ON HEADING 352.50 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 34R: CLIMB ON HEADING 352.51 TO 5934, THEN ON HEADING 352.51 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 35L: CLIMB ON HEADING 352.53 TO 5934, THEN ON HEADING 352.53 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

TAKEOFF RWY 35R: CLIMB ON HEADING 352.54 TO 5934, THEN ON HEADING 352.54 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO CROSS SOLAR AT OR ABOVE 17000, THENCE...

...ON TRACK 198.85 TO SMMUR. THEN ON (TRANSITION), MAINTAIN FL230 OR FILED LOWER ALTITUDE. EXPECT HIGHER FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
RAITT	SMMUR2.RAITT	SMMUR	RAITT	TRACK 252.87	20.00	17000	15400	AT/BELOW FL260
DAAYE	SMMUR2.DAAYE	SMMUR	DAAYE	TRACK 198.12	28.42	17000	16000	

PROCEDURAL DATA NOTES:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: TURBOJETS ONLY.

NOTE: RWYS 34L/R, 35L/R RADAR REQUIRED

NOTE: TAKEOFF RWYS 8, 16L/R, 17L/R, 25-RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

NOTE: ACCELERATE TO 250 KTS OR GREATER UPON REACHING 10000. IF SLOWER SPEED IS REQUIRED TO MEET CROSSING RESTRICTIONS, ADVISE CLNC DEL PRIOR TO TAXI.

NOTE: RAITT ENROUTE TRANSITION IS ATC ASSIGNED ONLY.



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TAKEOFF MINIMUMS:
RWYS 7, 26: NA-ATC.
RWY 17L/R, 34L/R, 35L/R: STANDARD.
RWY 8: STANDARD WITH MINIMUM CLIMB OF 475 FT PER NM TO 5934.
RWY 16L: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934.
RWY 16R: STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 5934.
RWY 25: STANDARD WITH MINIMUM CLIMB OF 415 FT PER NM TO 5934.

TAKEOFF OBSTACLES NOTES:
SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
CHART: TOP ALTITUDE FL 230.
REFERENCE MAG VAR: KDEN 8E EPOCH YR: 2015
DME/DME ASSESSMENT: SAT (RNP 2.0)

AIRPORTS SERVED:	AIRPORT NAME	AIRPORT ID	CITY	STATE
	DENVER INTL	KDEN	DENVER	CO

COMMUNICATIONS:
D-ATIS DEP, CLNC DEL, CPDLC, DENVER DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:
CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP.

<u>FLIGHT INSPECTED BY</u>		<u>OFFICE</u>	<u>DATE</u>	
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 03, 2018 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.			Digitally signed by DAVID TEFFETELLER Jun 01, 2020	
<u>DEVELOPED BY</u>	Digitally signed by	<u>OFFICE</u>	<u>DATE</u>	
ANDREA CHANEY	ANDREA J CHANEY May 05, 2020	AJV-A433	05/05/2020	
<u>APPROVED BY</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
GEORGE DAVIS	Digitally signed by DAVID TEFFETELLER Jun 01, 2020	AJV-A430		MANAGER
<u>REQUIRED EFFECTIVE DATE</u>				

REQUIRED EFFECTIVE DATE
ROUTINE



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
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COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, DEN APP CON, CO AERO MGR, DEN APT MGR, DEN ATCT, DEP CON

CHANGES - REASONS:

1. DP ROUTE DESCRIPTION CHANGED TO READ: ...ON TRACK 198.85 TO SMMUR. THEN ON (TRANSITION), MAINTAIN FL230 OR FILED LOWER ALTITUDE. EXPECT HIGHER FILED ALTITUDE TEN MINUTES AFTER DEPARTURE - TO CLEAR NOTAM PER FPT REQUEST FOR DEPARTURE WORDING MODIFICATION.



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
SMMUR	TWO	SMMUR2.SMMUR	ONE	03/26/2020	10 SEP 20

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW08 (AER)	395239.20N/1043944.03W	N	-	-	-	-			CG 475 FT PER NM TO 5934
5934 MSL	-	-	-	VA	090.53	-	AT/ABOVE 5934		
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000		RIGHT TURN
TWWIN	394245.16N/1042123.78W	Y	FB	TF	163.43	6.12			
FIGTR	393132.09N/1042716.67W	Y	FB	TF	202.10	12.09	AT/ABOVE 14000		
WEPON	392316.75N/1044027.96W	Y	FB	TF	231.15	13.13	AT/ABOVE 16000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	231.22	23.04	AT/ABOVE 17000		
RW16L (AER)	395349.33N/1044112.50W	N	-	-	-	-			CG 400 FT PER NM TO 5934
-	394548.31N/1044118.06W	-	-	VI	180.51	8.01			
BOGEI	393843.97N/1043945.85W	Y	FB	CF	170.48	7.17	AT/BELOW 10000		
SIGHT	393343.44N/1044314.61W	Y	FB	TF	208.27	5.68	AT/ABOVE 10000		
SCRCY	392611.53N/1044925.21W	Y	FB	TF	212.46	8.92	AT/ABOVE 12000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	212.33	20.55	AT/ABOVE 17000		
RW16R (AER)	395344.87N/1044145.90W	N	-	-	-	-			CG 380 FT PER NM TO 5934
-	394813.64N/1044149.71W	-	-	VI	180.51	5.51			
BOGEI	393843.97N/1043945.85W	Y	FB	CF	170.48	9.62	AT/BELOW 10000		
SIGHT	393343.44N/1044314.61W	Y	FB	TF	208.27	5.68	AT/ABOVE 10000		
SCRCY	392611.53N/1044925.21W	Y	FB	TF	212.46	8.92	AT/ABOVE 12000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	212.33	20.55	AT/ABOVE 17000		

QUALITY
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CHECKED

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SMMUR		TWO		SMMUR2.SMMUR		ONE		03/26/2020	10 SEP 20
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW17L (AER)	395153.83N/1043828.70W	N	-	-	-	-			
5934 MSL	-	-	-	VA	180.54	-	AT/ABOVE 5934		
RAYDR	393844.03N/1043838.33W	Y	FB	DF	-	-	AT/BELOW 10000		
SIGHT	393343.44N/1044314.61W	Y	FB	TF	215.44	6.14	AT/ABOVE 10000		
SCRCY	392611.53N/1044925.21W	Y	FB	TF	212.46	8.92	AT/ABOVE 12000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	212.33	20.55	AT/ABOVE 17000		
RW17R (AER)	395140.48N/1043936.56W	N	-	-	-	-			
5934 MSL	-	-	-	VA	180.53	-	AT/ABOVE 5934		
BOGEI	393843.97N/1043945.85W	Y	FB	DF	-	-	AT/BELOW 10000		
SIGHT	393343.44N/1044314.61W	Y	FB	TF	208.27	5.68	AT/ABOVE 10000		
SCRCY	392611.53N/1044925.21W	Y	FB	TF	212.46	8.92	AT/ABOVE 12000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	212.33	20.55	AT/ABOVE 17000		
RW25 (AER)	395026.37N/1044102.17W	N	-	-	-	-			CG 415 FT PER NM TO 5934
5934 MSL	-	-	-	VA	270.51	-	AT/ABOVE 5934		
BRKEM	394632.24N/1045413.25W	Y	FB	DF	-	-	AT/BELOW 10000		LEFT TURN
LENNN	394232.45N/1045541.10W	Y	FB	TF	195.80	4.15	AT/ABOVE 10000		
TIKLR	393734.30N/1045421.73W	Y	FB	TF	168.37	5.07			
CIROS	392959.92N/1044905.10W	Y	FB	TF	151.63	8.60	AT/ABOVE 14000		
RKYMT	392302.13N/1044930.58W	Y	FB	TF	182.71	6.96	AT/ABOVE 16000		
SOLAR	390847.92N/1050332.82W	Y	FB	TF	217.54	17.92	AT/ABOVE 17000		
R34L (AER)	395106.79/1044147.72W	N	-	-	-	-			



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
5934 MSL	-	-	-	VA	000.51	-			
-	-	-	-	VM	000.50	-			
RW34R (AER)	395150.77N/1044113.88W	N	-	-	-	-			
5934 MSL	-	-	-	VA	000.51	-			
-	-	-	-	VM	000.51	-			
RW35L (AER)	394941.93N/1043937.98W	N	-	-	-	-			
5934 MSL	-	-	-	VA	000.53	-			
-	-	-	-	VM	000.53	-			
RW35R (AER)	394955.27N/1043830.16W	N	-	-	-	-			
5934 MSL	-	-	-	VA	000.54	-			
-	-	-	-	VM	000.54	-			
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-	AT/ABOVE 17000		
SMMUR	382613.90N/1053054.35W	Y	FB	TF	206.85	47.60			
SMMUR	382613.90N/1053054.35W	Y	FB	IF	-	-		SMMUR2.RAITT	
RAITT	382300.63N/1055601.17W	Y	FB	TF	260.87	20.00	AT/BELOW FL260		
SMMUR	382613.90N/1053054.35W	Y	FB	IF	-	-		SMMUR2.DAAYE	
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.12	28.42			

