Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 06/22/2011	Task #: 2011062126966604001	Request #: 20110621269666
Procedure: SID PIKES FIVE DENVER CO KDEN		Airport ID: KDEN	Airport: DENVER INTL		Reimbursable #:
City: DENVER	ST: CO	GPS #:		Estimated Chart Date: 11/15/2012	FICO #: 1088406
Fac ID: DEN	Fac. Type: Proc-T	Specialist: CHARLES ERICKSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/23/2012	06/07/2012	DEZ SILAGYI	
QA:	03/23/2012	03/26/2012	SCOTT BEARD	Pkg 2 of 6
Liaison:	03/26/2012		Spurlin	FC UNSAT 8-22-12 RESUBMIT NEW -15BS 8/24/12; - HARD DATE

P1

Procedure Comments: **Remark Type:** INFORMATION

DENVER, CO DENVER INTL (KDEN) PIKES FIVE (SID) ENROUTE-NO HARD DATE: 11.15.12

ATTACHED FORMS: 8260-15B; 8260-2(S): ADANE-INT, REV 6; BINKE-INT, REV 1; DENVER (DEN) VDME, REV 2; DRAKE-INT, REV 6; HUGO (HGO) VDME, REV 7; SOLAR-INT, REV 1; TEHEV-INT, REV 2; (INFO ONLY) ALAMOSA (ALS) VTAC, REV 13; BLACK FOREST (BRK) VDME, REV 15; PUEBLO (PUB) VDME, REV 16.

CONTACT: ADOLFO URRUTIA, AJV-354 LEAD, 405.954.2079:

NEW

(PIKES5.DEN) FIG

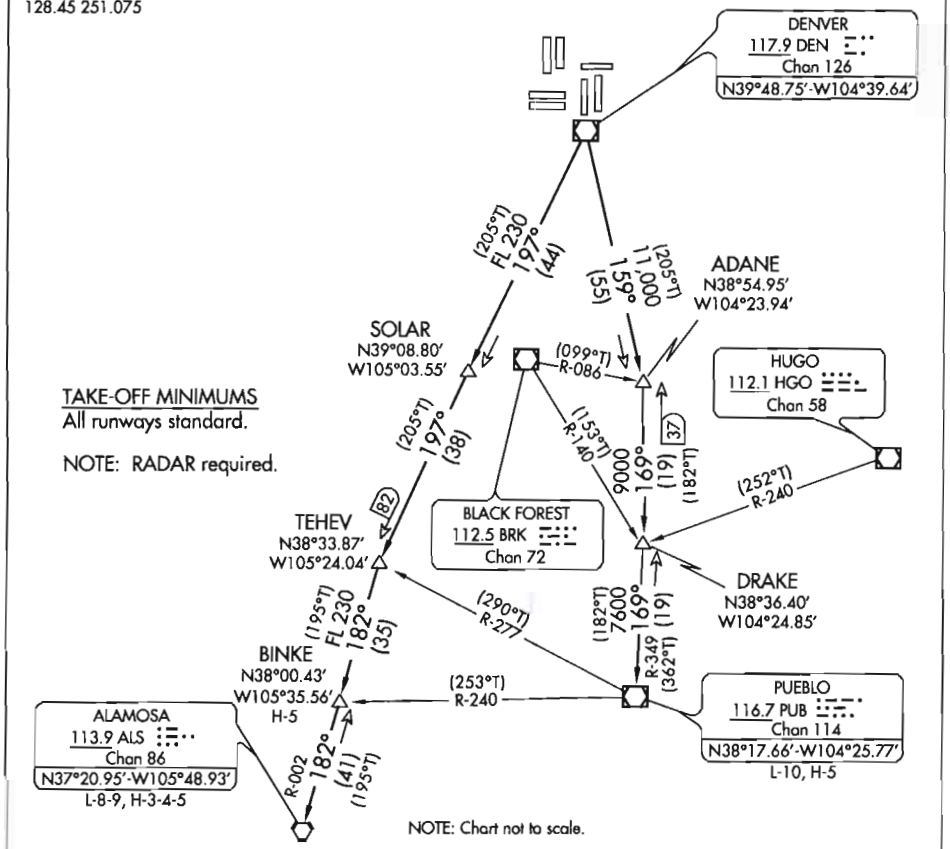
PIKES FIVE DEPARTURE

SL-9077 (FAA)

DENVER INTL (DEN)
DENVER, COLORADO

ATIS DEP 134.025
CLNC DEL
118.75
DENVER DEP CON
128.45 251.075

PROTOTYPE: NOT FOR NAVIGATION



TAKE-OFF MINIMUMS
All runways standard.

NOTE: RADAR required.

V

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Climb and maintain 10,000 feet or ATC assigned lower altitiude. Expect filed altitude 10 minutes after departure.
LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned route. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.
ALAMOSA TRANSITION (PIKES5.ALS): From over DEN VOR/DME via DEN R-197 to TEHEV, then via ALS R-002 to ALS VORTAC.
BINKE TRANSITION (PIKES5.BINKE): From over DEN VOR/DME via DEN R-197 to TEHEV, then via ALS R-002 to BINKE INT.
PUEBLO TRANSITION (PIKES5.PUB): From over DEN VOR/DME via DEN R-159 to ADANE, the via PUB R-349 to PUB VORTAC.

AUTOMATED SL-9077 PIKES DEPARTURE

SW-1
16 FEB 2012
COMPILER: CW
REVIEWER:
DBL CHKR:
EFF DATE: FIG

PIKES FIVE DEPARTURE

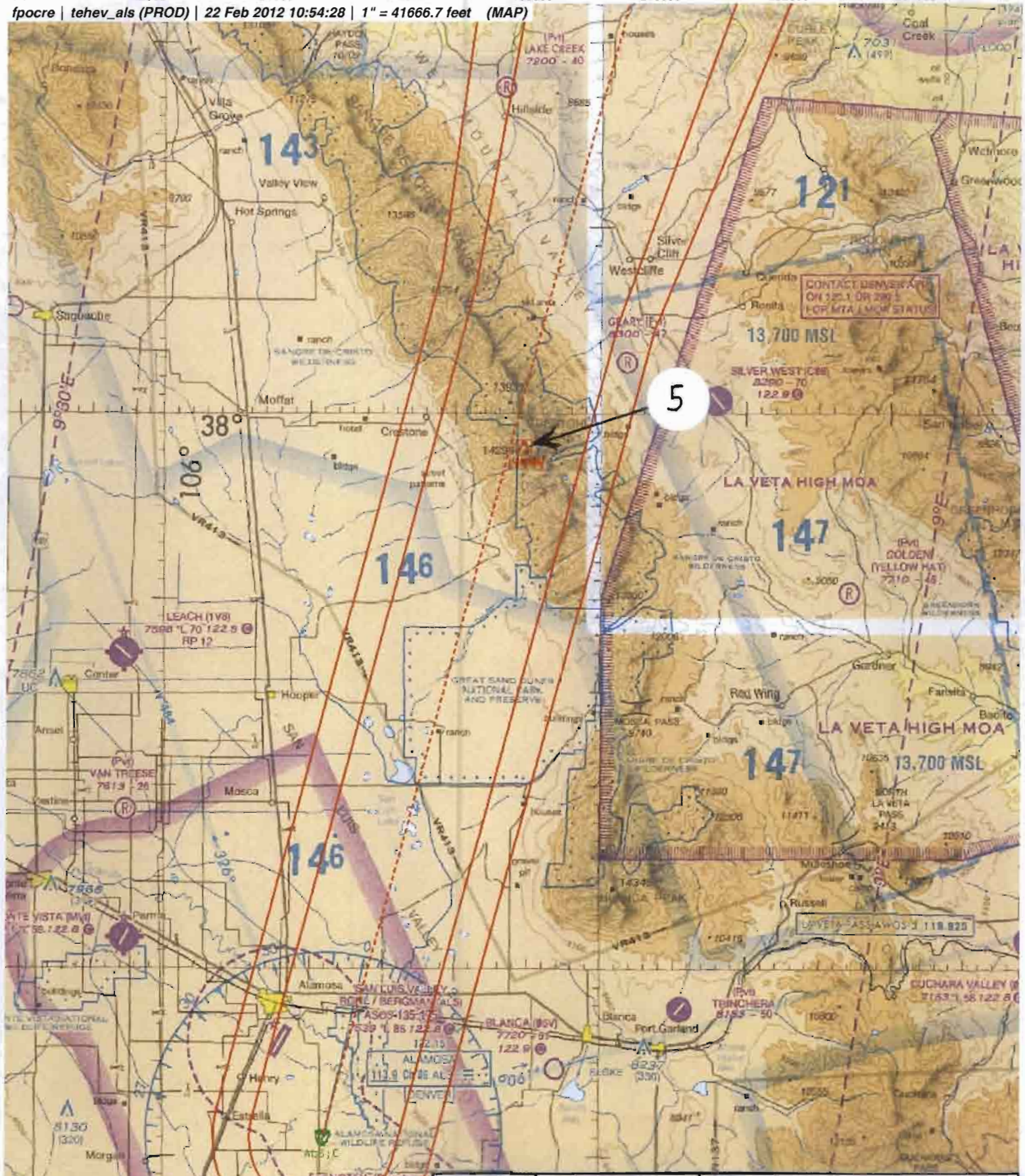
DENVER, COLORADO
DENVER INTL (DEN)

(PIKES5.DEN) FIG

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpocre | tehev_als (PROD) | 22 Feb 2012 10:54:28 | 1" = 41666.7 feet (MAP)



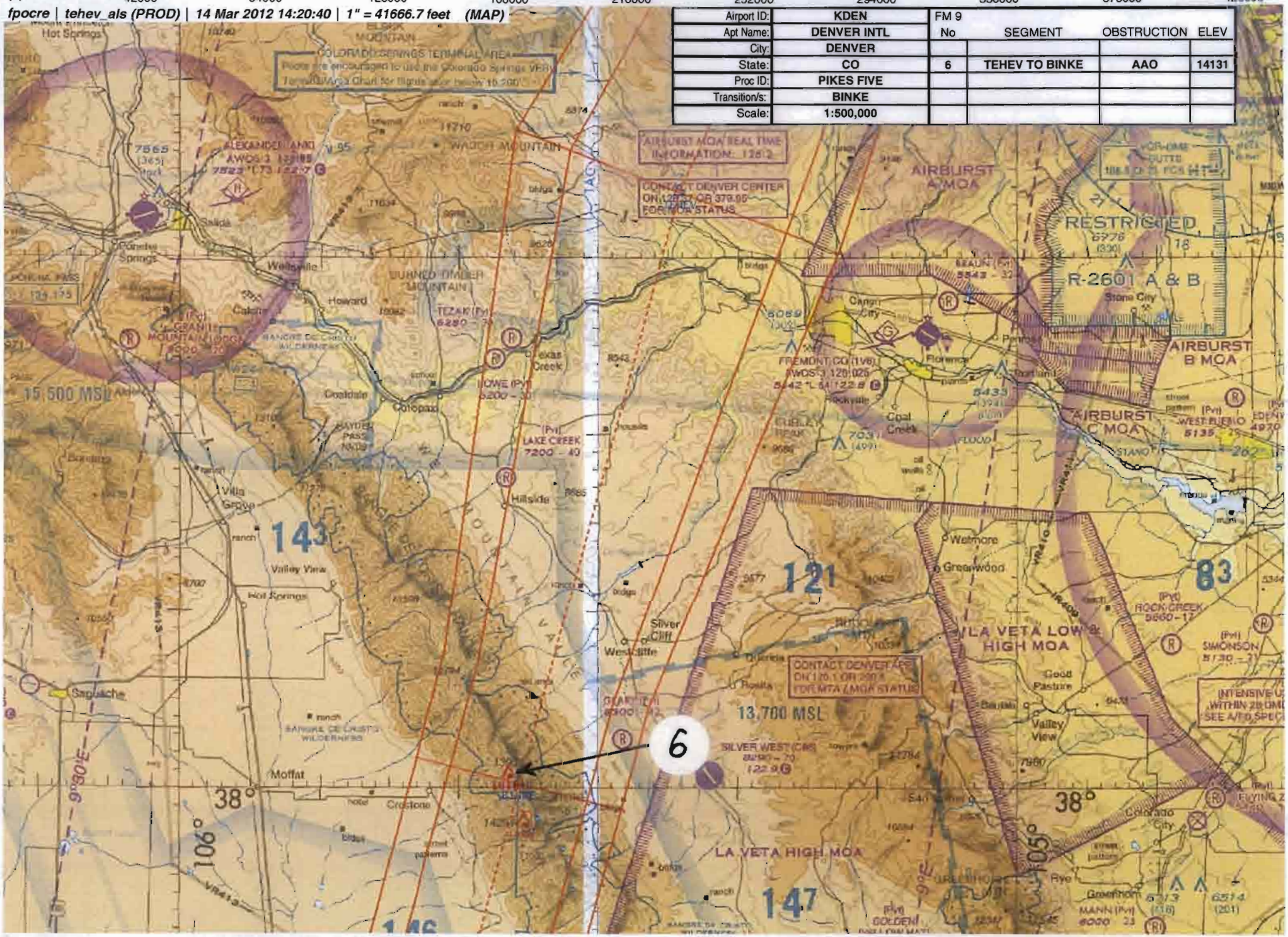
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER		SECOND HALF		
State:	CO	5	TEHEV TO ALS;C	AAO	14494
Proc ID:	PIKES FIVE				
Transition/s:	ALAMOSA				
Scale:	1:500,000				

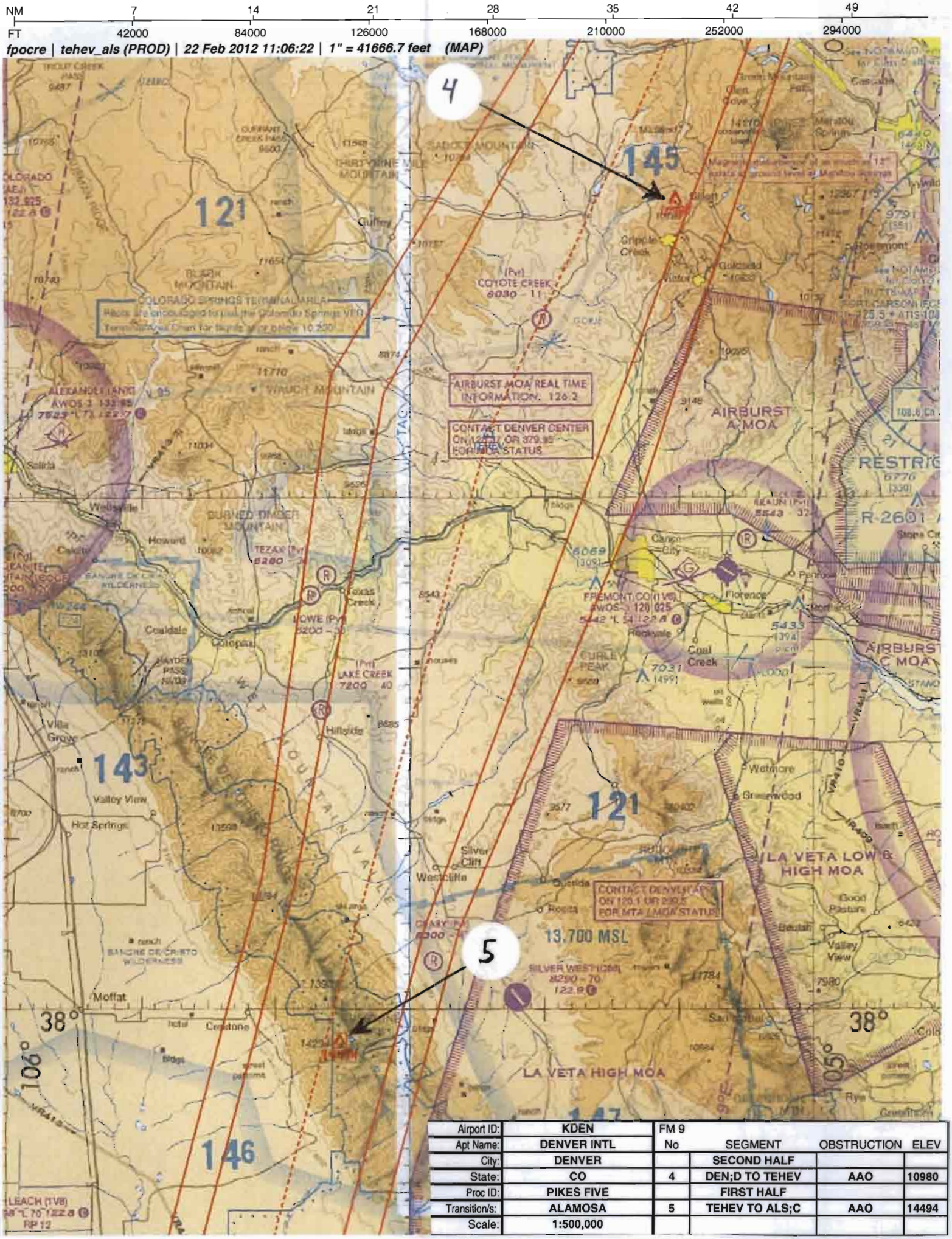
NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpocre | tehev_als (PROD) | 14 Mar 2012 14:20:40 | 1" = 41666.7 feet (MAP)

		FM 9			
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DENVER INTL				
City:	DENVER				
State:	CO	6	TEHEV TO BINKE	AAO	14131
Proc ID:	PIKES FIVE				
Transition/s:	BINKE				
Scale:	1:500,000				



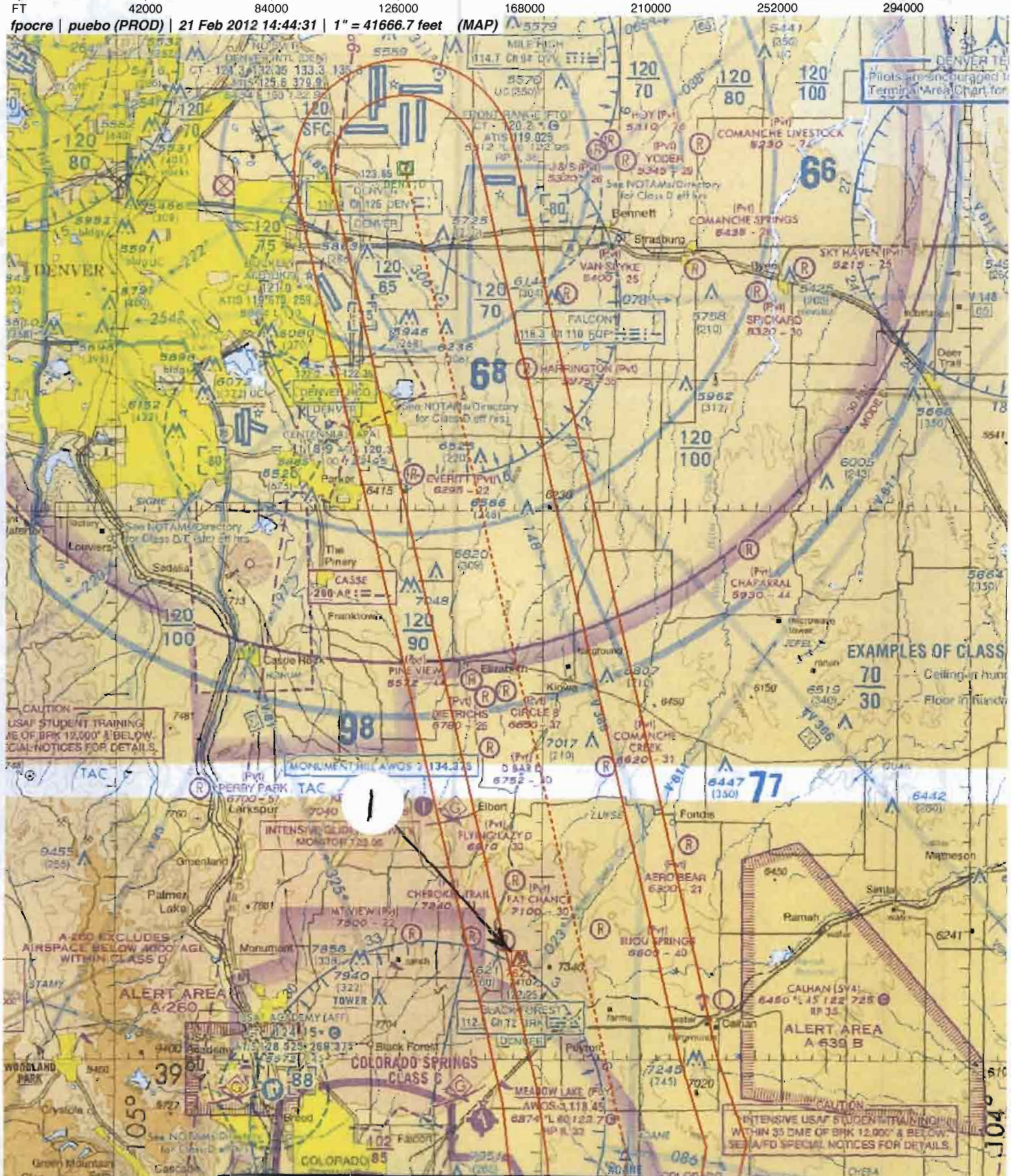


Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER		SECOND HALF		
State:	CO	4	DEN;D TO TEHEV	AAO	10980
Proc ID:	PIKES FIVE		FIRST HALF		
Transition/s:	ALAMOSA	5	TEHEV TO ALS;C	AAO	14494
Scale:	1:500,000				

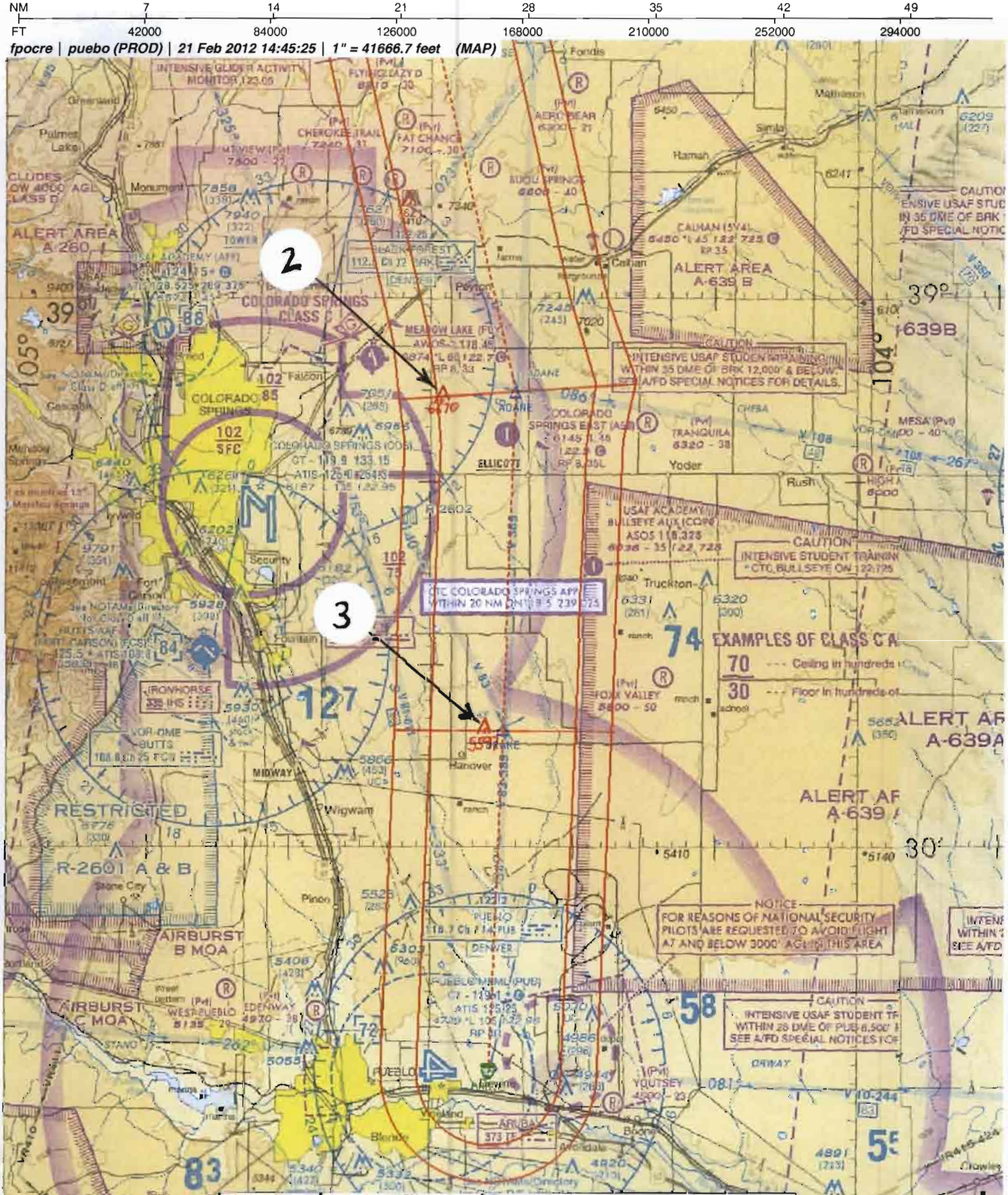
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpocre | puebo (PROD) | 21 Feb 2012 14:44:31 | 1" = 41666.7 feet (MAP)



Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER				
State:	CO	1	DEN;D TO ADANE	TWR	7621
Proc ID:	PIKES FIVE				
Transition/s:	PUEBLO				
Scale:	1:500,000				



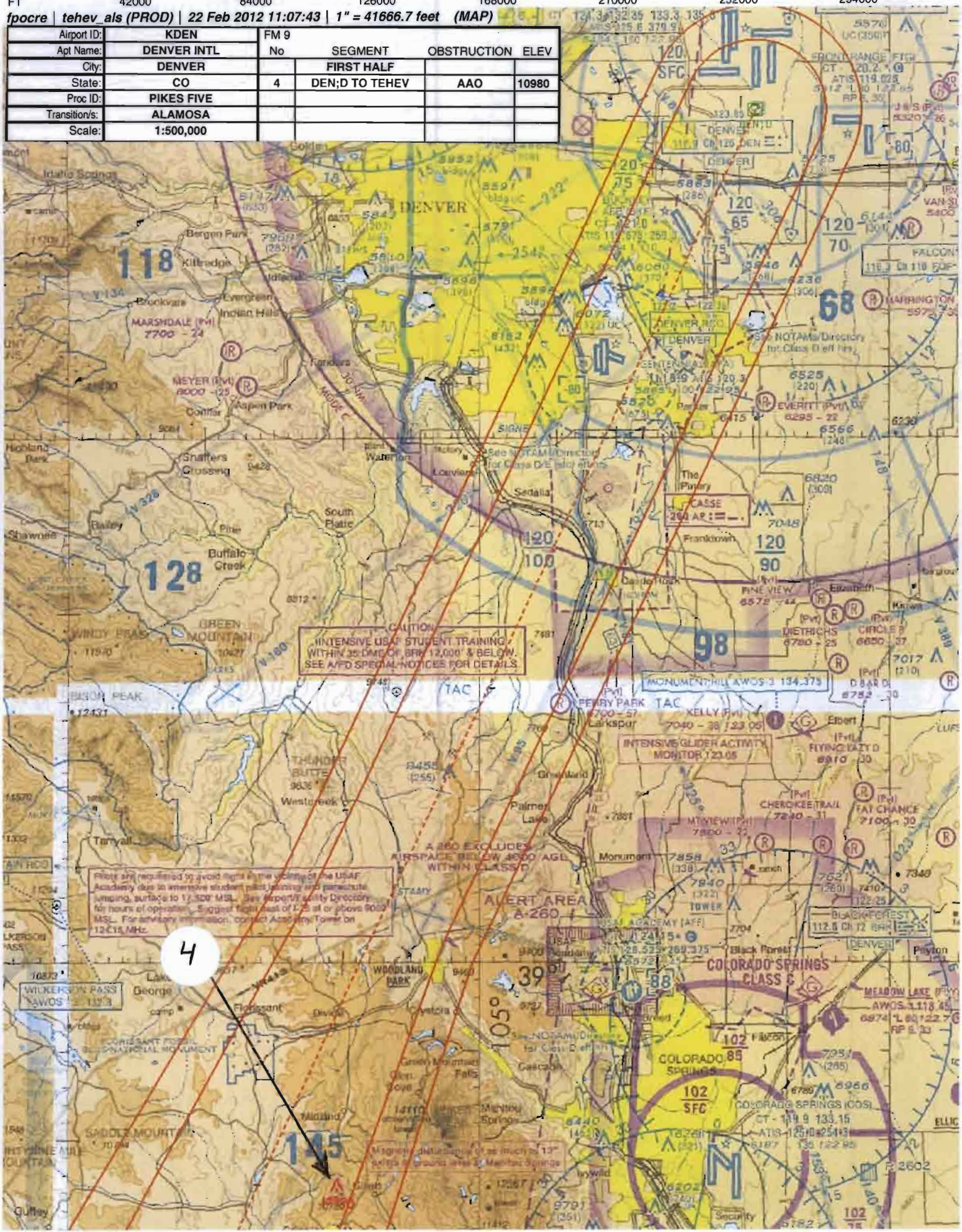
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER				
State:	CO	2	ADANE TO DRAKE	AAO	6670
Proc ID:	PIKES FIVE	3	DRAKE TO PUB;D	AAO	5597
Transition/s:	PUEBLO				
Scale:	1:500,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpocre | tehev_als (PROD) | 22 Feb 2012 11:07:43 | 1" = 41666.7 feet (MAP)

		FM 9			
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DENVER INTL				
City:	DENVER		FIRST HALF		
State:	CO	4	DEN;D TO TEHEV	AAO	10980
Proc ID:	PIKES FIVE				
Transition/s:	ALAMOSA				
Scale:	1:500,000				



U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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 statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PIKES	FIVE	PIKES5.DEN	FOUR	02/19/2004	11/15/12

TYPE: SID

DP ROUTE DESCRIPTION:

DENVER INTL:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. CLIMB AND MAINTAIN 10000 OR ATC ASSIGNED LOWER ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

BUCKLEY AFB:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

GREELEY-WELD COUNTY:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CENTENNIAL:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. RWY 10, CLIMB HEADING 099.95 TO 6600 BEFORE TURNING RIGHT.

FRONT RANGE:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:
TAKEOFF RWY 2, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 150 FROM DEPARTURE END OF RUNWAY, THENCE...
TAKEOFF RWY 11L, 11R: CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 150 CCW 350 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 20, CLIMBING LEFT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 150 CCW TO 024 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 29R, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 29L, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...
...EXPECT RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FORT COLLINS-LOVELAND MUNI:
TAKEOFF RWY 33, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 150 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 15, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 180 CCW 350 FROM END OF RUNWAY. THENCE...
...EXPECT RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
PUEBLO	PIKES5.PUB	DEN VOR/DME	ADANE	159.15 (DEN R-159)	55.11	11000		
		ADANE	DRAKE	169.19 (PUB R-349)	18.55	9000		

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PIKES	FIVE	PIKES5.DEN	FOUR	02/19/2004	11/15/12

		DRAKE	PUB VOR/DME	169.19 (PUB R-349)	18.74	7600
ALAMOSA	PIKES5.ALS	DEN VOR/DME	TEHEV	197.00 (DEN R-197)	82.39	FL230
		TEHEV	ALS VORTAC	182.00 (ALS R-002)	75.45	FL230
BINKE	PIKES5.BINKE	DEN VOR/DME	TEHEV	197.00 (DEN R-197)	82.39	FL230
		TEHEV	BINKE	182.00 (ALS R-002)	34.62	FL230

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.
DENVER INTL - STANDARD.
ROCKY MOUNTAIN METROPOLITAN - RWY 2, 11R, 11L, 20, 29R, STANDARD. RWY 29L, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 5900.
BUCKLEY AFB - STANDARD.
CENTENNIAL - RWY 10, 35L, 35R, STANDARD.
RWY 17L, STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 8000.
RWY 17R, STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000.
RWY 28, STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 8000.
FRONT RANGE – STANDARD.
GREELEY-WELD COUNTY – STANDARD.
FORT COLLINS-LOVELAND MUNI – RWY 6, 24, NA – VFR RUNWAY. RWY 15, 33, STANDARD.

TAKEOFF OBSTACLES NOTES:

DENVER INTL:
NOTE: RWY 7, SIGN 21 FT FROM DER, 337 FT LEFT OF CENTERLINE, 5 FT AGL/5357 FT MSL.
NOTE: RWY 16L, MULTIPLE SIGNS BEGINNING 126 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/5359 FT MSL. COMMUNICATION TWR 4749 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 107 FT AGL/5478 FT MSL.
NOTE: RWY 25, SIGN 48 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 6 FT AGL/5354 FT MSL.
NOTE: RWY 26, SIGN 50 FT FROM DER, 339 FT LEFT OF CENTERLINE, 5 FT AGL/5356 FT MSL.
ROCKY MOUNTAIN METROPOLITAN:
NOTE: RWY 2: POLE 432 FT FROM DER, 370 FT RIGHT OF CENTERLINE, 49 FT AGL/5619 FT MSL.
NOTE: RWY 29L: TERRAIN BEGINNING 23 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 5708 FT MSL. FENCE 982 FT FROM DER, 303 FT LEFT OF CENTERLINE, 14 FT AGL/5714 FT MSL. FENCE 1015 FT FROM DER, 392 FT LEFT OF CENTERLINE, 15 FT AGL/5725 FT MSL. MULTIPLE TREES BEGINNING 687 FT FROM DER, 615 FT RIGHT OF CENTERLINE UP TO 70 FT AGL/5839 FT MSL. TREE 3196 FT FROM DER, 1337 FT LEFT OF CENTERLINE, 70 FT AGL/5839 FT MSL.
BUCKLEY AFB:
NOTE: RWY 14, TERRAIN 110 FT FROM DER, 529 FT LEFT OF CENTERLINE, 5666 FT MSL.
CENTENNIAL:
NOTE: RWY 10, TERRAIN BEGINNING 369 FT FROM DER 30 FT RIGHT OF CENTERLINE, UP TO 5854 FT MSL. FENCES BEGINNING 1211 FT FROM DER, 233 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/5841 FT MSL. MULTIPLE BUSHES BEGINNING 1378 FT FROM DER, 284 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL/5840 FT MSL. MULTIPLE ROADS WITH VEHICLES BEGINNING 198 FT FROM DER, 404 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/5835 FT MSL. TERRAIN 1358 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 5830 FT MSL.
NOTE: RWY 17L, TREES BEGINNING 2968 FT FROM DER, 761 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/5976 FT MSL.
NOTE: RWY 17R, TERRAIN 181 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 5887 FT MSL. FENCE 538 FT FROM DER, 196 FT RIGHT OF CENTERLINE, 8 FT AGL/5886 FT MSL.

TREES BEGINNING 562 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/5976 FT MSL. MULTIPLE LIGHT POLES BEGINNING 2362 FT FROM DER, 256 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/5942 FT MSL. OBSTRUCTION LIGHT ON BUILDING 3282 FT FROM DER, 842 FT RIGHT OF CENTERLINE, 90 FT AGL/6021 FT MSL.
NOTE: RWY 28, TERRAIN BEGINNING 89 FT FROM DER, ON CENTERLINE EXTENDING TO 514 FT LEFT TO 137 FT RIGHT OF CENTERLINE, UP TO 5843 FT MSL. WINDSOCK 100 FT FROM DER, 183 FT LEFT OF CENTERLINE, 15 FT AGL/5832 FT MSL. TREES BEGINNING 1640 FT FROM DER, 731 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/ 5959 FT MSL.
FRONT RANGE
NOTE: RWY 17, POLE 3618 FT FROM DER, 516 FT LEFT OF CENTERLINE, 43 FT AGL/5603 FT MSL.
NOTE: RWY 26, TREES BEGINNING 98 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5489 FT MSL.
GREELEY-WELD COUNTY:
NOTE: RWY 27, TREE 1634 FT FROM DER, 836 FT LEFT OF CENTERLINE, 56 FT AGL/4717 FT MSL. FENCE 237 FT FROM DER, 422 FT RIGHT OF CENTERLINE, 9 FT AGL/4670 FT MSL. FENCE 99 FT FROM DER, 423 FT LEFT OF CENTERLINE, 4 FT AGL/4665 FT MSL.
NOTE: RWY 34, TREES BEGINNING 1860 FT FROM DER, 595 FT RIGHT OF CENTERLINE , UP TO 67 FT AGL/4785 FT MSL. TREE 2854 FEET FROM DER, 524 FT LEFT OF CENTERLINE, 73 FT AGL/4770 FT MSL.
FORT COLLINS-LOVELAND MUNI:
NOTE: RWY 33, TREES BEGINNING 833 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/5025 FT MSL. MULTIPLE POLES BEGINNING 567 FT FROM DER, 540 FT LEFT OF CENTERLINE, UP TO 26 FT AGL/4995 FT MSL.

CONTROLLING OBSTACLES:

ROCKY MOUNTAIN METROPOLITAN:
RWY 29L: 5839 FT MSL TREE 395457.98N/1050837.12W.
CENTENNIAL:
RWY 10: 6520 FT MSL TWR 393024.00N/1044604.00W.
RWY 17L: 6559 FT MSL AAO 392953.93N/1045044.26.
RWY 17R: 6021 FT MSL OBS LT ON BLDG 393302.52N/1045119.43W, 6559 FT MSL AAO 392953.93N/1045044.26.

LOST COMMUNICATIONS PROCEDURES:

IF NO TRANSMISSIONS ARE RECEIVED WITHIN ONE MINUTE AFTER DEPARTURE, MAINTAIN ASSIGNED HEADING UNTIL 7000 FEET, THEN CLIMB TO FILED ALTITUDE VIA DIRECT DEN VOR/DME, THENCE VIA ASSIGNED TRANSITION. IF FILED ALTITUDE IS ABOVE 10000 FEET, CROSS DEN VOR/DME AT OR ABOVE 11000 FEET.

ADDITIONAL FLIGHT DATA:

CHART BRK R-086 TO ADANE AND BRK R-140 TO DRAKE. CHART PUB R-277 TO TEHEV AND PUB R-240 TO BINKE

AIRPORTS SERVED:

DENVER INTL	DENVER , CO
ROCKY MOUNTAIN METROPOLITAN	DENVER, CO
BUCKLEY AFB	AURORA, CO
CENTENNIAL	DENVER, CO
FRONT RANGE	DENVER, CO
GREELEY-WELD COUNTY	GREELEY, CO
FORT COLLINS-LOVELAND MUNI	FORT COLLINS/LOVELAND, CO

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PIKES	FIVE	PIKES5.DEN	FOUR	02/19/2004	11/15/12

COMMUNICATIONS:

CHART COMMUNICATIONS FOR ATIS, CLEARANCE DELIVERY, DEP CON

FIXES AND/OR NAVAIDS:

SOLAR, HGO VOR/DME, BRK VOR/DME

REMARKS:

MVA/MIA OBSTACLE CLEARANCE WILL BE PROVIDED ON TRANSITION ROUTES UNTIL AIRCRAFT REACHES MEA.

FOR THOSE AIRPORTS THAT HAVE RESTRICTIONS ON INITIAL DIVERSE VECTORS OFF THE AIRPORT - RESTRICTIONS ARE LIFTED ONCE AIRCRAFT REACHES MINIMUM VECTORING ALTITUDE AND ATC COMMENCES VECTORING AIRCRAFT TO TRANSITION.

CLIMB GRADIENTS AT CENTENNIAL OFF RWY 17L/R ARE OBSTACLE DRIVEN WITH THE CLIMB TO ALTITUDE DETERMINED BY LOCATION OF 8000 MVA AND PROXIMITY TO HIGHER MVA'S, RWY 28 CLIMB GRADIENT AND CLIMB TO ALTITUDE ARE BOTH DETERMINED BY THE LOCATION OF 8000 MVA AND PROXIMITY TO HIGHER MVA's.

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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 statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PIKES	FIVE	PIKES5.DEN	FOUR	02/19/2004	11/15/12

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
11/15/12

DEVELOPED BY:
CHARLES ERICKSON AJV-354 02/14/2012

APPROVED BY:
DEZ SILAGYI AJV-354

COORDINATED WITH:
ATA, ALPA, APA, AOPA, NBAA, ZDV, DEN ATCT, DEN APP CON, CO AERO MGR, APT MGR'S

CHANGES:

1. RADIALS OFF DENVER VOR/DME INCREASED 3 DEGREES.
2. COURSE FROME DENVER VOR/DME TO ADANE CHANGED FROM 156.16 TO 159.15, DISTANCE CHANGED FROM 55.15 TO 55.11 NM.
3. ADANE TO DRAKE DISTANCE CHANGED FROM 18.50 TO 18.55.
4. PUB, HGO, AND BRK VORTACS CONVERTED TO VOR/DME.
5. DP ROUTE DESCRIPTION CHANGED FROM:
   DENVER INTL: FLY ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION, MAINTAIN 10000 FEET OR ATC ASSIGNED LOWER ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
   ROCKY MOUNTAIN METROPOLITAN, BUCKLEY AFB, CENTENNIAL, FRONT RANGE, GREELEY-WELD COUNTY, FORT COLLINS-LOVELAND MUNI: FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILES ALTITUDE 10 MINUTES AFTER DEPARTURE.
   TO:
   TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. CLIMB AND MAINTAIN 10000 OR ATC ASSIGNED LOWER ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

BUCKLEY AFB:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

GREELEY-WELD COUNTY:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CENTENNIAL:
TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. RWY 10, CLIMB HEADING 099.95 TO 6600 BEFORE TURNING RIGHT.

FRONT RANGE:
TAKEOFF RWY: 15, 33, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:
TAKEOFF RWY 2, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 150 FROM DEPARTURE END OF RUNWAY, THENCE...
TAKEOFF RWY 11L, 11R: CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 150 CCW 350 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 20, CLIMBING LEFT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 150 CCW TO 024 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 29R, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 29L, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...

FORT COLLINS-LOVELAND MUNI:
TAKEOFF RWY 33, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 150 FROM DEPARTURE END OF RUNWAY. THENCE...
TAKEOFF RWY 15, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 180 CCW 350 FROM END OF RUNWAY. THENCE...

...EXPECT RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

6. APPLIED THE FOLLOWING CLIMB GRADIENTS AT CENTENNIAL:
RWY 17L, STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 8000.
RWY 17R, STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000.
RWY 28, STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 8000.
ROCKY MOUNTAIN METROPOLITAN- CHANGED FROM "STANDARD" TO: RWY 2, 11R, 11L, 20, 29R, STANDARD. RWY 29L, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 5900.
7. BUCKLEY AFB T/O MINS CHANGED FROM "SEE APPROPRIATE MILITARY DIRECTIVE" TO "STANDARD.

REASONS:

1. DENVER VOR/DME MAG VAR ROTATION FROM 11E TO 8E.
2. DEN MAGVAR ROTATION AND GEODETIC CALCULATION.
3. GEODETIC CALCULATION.
4. FAA NAS DETERMINATION.
5. TERRAIN AND AT REQUEST.
6. CENTENNIAL - AAO AND PROXIMITY TO HIGHER MVA AREA. ROCKY MOUNTAIN METROPOLITAN RWY 29L – TREE IN ICA.
7. BUCKLEY AFB REPRESENTATIVE PROVIDED LOW CLOSE IN OBSTACLE INFORMATION TO BE PUBLISHED.

06/14/12: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 02/14/12.
1.ADDED THE FOLLOWING TAKEOFF OBSTACLE NOTES FOR DENVER INTL:
NOTE: RWY 7, SIGN 21 FT FROM DER, 337 FT LEFT OF CENTERLINE, 5 FT AGL/5357 FT MSL.
NOTE: RWY 16L, MULTIPLE SIGNS BEGINNING 126 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/5359 FT MSL. COMMUNICATION TWR 4749 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 107 FT AGL/5478 FT MSL.
NOTE: RWY 25, SIGN 48 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 6 FT AGL/5354 FT MSL.
NOTE: RWY 26, SIGN 50 FT FROM DER, 339 FT LEFT OF CENTERLINE, 5 FT AGL/5354 FT MSL.
2. ADDED EFFECTIVE DATE OF 11/15/12.

08/23/12: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 02/01/12.
1. CHANGED FRONT RANGE ROUTE DESCRIPTION RUNWAYS FROM 15/33 TO ALL RUNWAYS.

RADIO FIX AND HOLDING DATA RECORD

NAME: BINKE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 380025.59N/1053533.62W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ALAMOSA	ALS	VORTAC	H	002.00	015.00	40.83	40.83		23000	45000
2	PUEBLO	PUB	VOR/DME	H	240.00	253.00		57.68		23000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
ALAMOSA (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PIKES	1, 2		KBKF	AURORA	CO (US)
DP	PIKES	1, 2		KAPA	DENVER	CO (US)
DP	PIKES	1, 2		KBJC	DENVER	CO (US)
DP	PIKES	1, 2		KDEN	DENVER	CO (US)
DP	PIKES	1, 2		KFTG	DENVER	CO (US)
DP	PIKES	1, 2		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES	1, 2		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX USE
FAC 2 CHANGED FROM VORTAC TO VOR/DME
ADDED DIST FROM FAC FOR FAC 1 AND 2

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DENVER VOR/DME **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394845.05N/1043938.66W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DENVER	DEN	VOR/DME	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	DEN	VOR/DME	163.00	343.00	R	1-1 1/2		8100	17500	9	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	393300.00N/1043427.00W	6437	4E
1	310	TOWER (08-000111)	392514.47N/1043916.71W	7048	2B

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KAPA	DENVER	CO (US)
1	TAKE-OFF MINIMUMS	KFTG	DENVER	CO (US)
1	TAKE-OFF MINIMUMS	KBJC	DENVER	CO (US)
1	TAKE-OFF MINIMUMS	KDEN	DENVER	CO (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	PLAINS			KBKF	AURORA	CO (US)
DP	ROCKIES			KBKF	AURORA	CO (US)
DP	YELLOWSTONE			KBKF	AURORA	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	PLAINS			KAPA	DENVER	CO (US)
DP	ROCKIES			KAPA	DENVER	CO (US)
DP	TAKE-OFF MINIMUMS		1	KAPA	DENVER	CO (US)
DP	YELLOWSTONE			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	PLAINS			KBJC	DENVER	CO (US)
DP	ROCKIES			KBJC	DENVER	CO (US)
DP	TAKE-OFF MINIMUMS		1	KBJC	DENVER	CO (US)
DP	YELLOWSTONE			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	PLAINS			KDEN	DENVER	CO (US)
DP	ROCKIES			KDEN	DENVER	CO (US)
DP	TAKE-OFF MINIMUMS		1	KDEN	DENVER	CO (US)
DP	YELLOWSTONE			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	PLAINS			KFTG	DENVER	CO (US)
DP	ROCKIES			KFTG	DENVER	CO (US)
DP	TAKE-OFF MINIMUMS		1	KFTG	DENVER	CO (US)
DP	YELLOWSTONE			KFTG	DENVER	CO (US)
DP	TAKE-OFF MINIMUMS			KEIK	ERIE	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PLAINS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	ROCKIES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	PLAINS			KGXY	GREELEY	CO (US)
DP	ROCKIES			KGXY	GREELEY	CO (US)
DP	YELLOWSTONE			KGXY	GREELEY	CO (US)
IAP	ILS OR LOC Z RWY 29R			KBJC	DENVER	CO (US)
IAP	ILS OR LOC RWY 16L			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 16R			KDEN	DENVER	CO (US)

IAP	ILS OR LOC RWY 17L	KDEN	DENVER	CO (US)
STAR	DANDD	KDEN	DENVER	CO (US)
STAR	LANDR	KDEN	DENVER	CO (US)
STAR	LARKS	KDEN	DENVER	CO (US)
STAR	POWDR	KDEN	DENVER	CO (US)
STAR	QUAIL	KDEN	DENVER	CO (US)
STAR	RAMMS	KDEN	DENVER	CO (US)
STAR	SAYGE	KDEN	DENVER	CO (US)
STAR	TOMSN	KDEN	DENVER	CO (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX COORDINATES TO REFLECT MOST RECENT SURVEY.
CHANGED HOLDING PAT 1 COURSE INBOUND FROM 340 TO 343 TO REFLECT FACILITY MAGVAR ROTATION FROM 11E TO 8E.
UPDATED PAT 1 310KT CONTROLLING OBSTACLE COORDINATES AND ACCURACY CODE TO CURRENT DATA.
MOVED LIMITED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATED PRECIPITOUS TERRAIN NOTE TO CURRENT FORMAT.
ADDED STAR TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (STEPHEN PETERSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DRAKE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 383624.05N/1042451.18W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PUEBLO	PUB	VOR/DME	H	349.19	002.19	18.74	18.74		7600	17500
2	HUGO	HGO	VOR/DME	H	239.50	251.50		39.32		7600	17500
3	BLACK FOREST	BRK	VOR/DME	L	140.00	153.00	22.71	22.71		9000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	PUB	VOR/DME	349.19	169.19	R	1-1 1/2		9000	17500	11	18
2	S		WP	173.19	353.19	R		7	9000	17500	10	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	385121.00N/1043348.00W	6838	4E
2	230	AAO	384154.00N/1041739.00W	6152	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PUEBLO (FAC 1) USED TO ESTABLISH FIX COORDINATES
HOLDING PAT 1 ESTABLISHED PER ATC REQUEST
INTERSECTION HOLDING BASED ON FAC 1 AND 2.
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PIKES	1, 2, 3		KBKF	AURORA	CO (US)
DP	SPRINGS	1, 2, 3		KCOS	COLORADO SPRINGS	CO (US)
DP	PIKES	1, 2, 3		KAPA	DENVER	CO (US)
DP	PIKES	1, 2, 3		KBJC	DENVER	CO (US)
DP	PIKES	1, 2, 3		KDEN	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFTG	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES	1, 2, 3		KGXY	GREELEY	CO (US)
EN ROUTE	V389	1, 2, 3				(US)
EN ROUTE	V83	1, 2, 3				(US)
IAP	ILS OR LOC RWY 17L	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (CAT II)	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17L		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17R		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17L		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17R		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	COPTER NDB 314			KFCS	FORT CARSON	CO (US)
IAP	VOR OR GPS RWY 31	1, 2, 3		KFCS	FORT CARSON	CO (US)
IAP	RNAV (GPS) RWY 17			KPUB	PUEBLO	CO (US)
IAP	RNAV (GPS) RWY 26R			KPUB	PUEBLO	CO (US)

REQUIRED CHARTING: DP, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FACS 1, 2, AND 3, CHANGED FROM VORTAC'S TO VOR/DME'S
HOLDING PAT 1 TYPE CHANGED FROM VORTAC TO VOR/DME

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

QUALITY CHECKED

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: COS
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HUGO VOR/DME **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 384903.00N/1033717.00W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HUGO	HGO	VOR/DME	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	HGO	VOR/DME	126.63	306.63	R	1-1 1/2		10500	45000	9	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	390030.00N/1035312.00W	6113	4E
1	230	AAO	385030.00N/1034421.00W	5660	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
UNPLANNED HOLDING APPROVED AT OR ABOVE 10000
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J171					(US)
EN ROUTE	J197					(US)
EN ROUTE	J20					(US)
EN ROUTE	J24					(US)
EN ROUTE	J52					(US)
EN ROUTE	V108					(US)
EN ROUTE	V169					(US)
EN ROUTE	V263					(US)
EN ROUTE	V366					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KDEN	DENVER	CO (US)
STAR	QUAIL		1	KDEN	DENVER	CO (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FACILITY CHANGED FROM VORTAC TO VOR/DME
UPDATED FIX USE

DEVELOPED BY: **DATE:** 01/25/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

QUALITY CHECKED

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SOLAR **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 390847.92N/1050332.82W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DENVER	DEN	VOR/DME	H	197.00	205.00	44.00	44.00		23000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PIKES	1		KBKF	AURORA	CO (US)
DP	PIKES	1		KAPA	DENVER	CO (US)
DP	PIKES	1		KBJC	DENVER	CO (US)
DP	PIKES	1		KDEN	DENVER	CO (US)
DP	PIKES	1		KFTG	DENVER	CO (US)
DP	PIKES	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES	1		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
PREVIOUS REVISION WAS ONLY A SHELL

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TEHEV **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 383352.01N/1052402.19W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DENVER	DEN	VOR/DME	H	197.00	205.00	82.39	82.39		23000	45000
2	PUEBLO	PUB	VOR/DME	H	276.78	289.78		48.57		23000	45000
3	ALAMOSA	ALS	VORTAC	H	002.00	015.00		75.45		23000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PIKES	1, 2, 3		KBKF	AURORA	CO (US)
DP	PIKES	1, 2, 3		KAPA	DENVER	CO (US)
DP	PIKES	1, 2, 3		KBJC	DENVER	CO (US)
DP	PIKES	1, 2, 3		KDEN	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFTG	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES	1, 2, 3		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX USE
FCA 1 MAG BRG CHANGED FROM 194.00 TO 197.00, FAC 1 MAG VAR CHANGE FROM 11E TO 8E
FAC 2 CHANGED FROM VORTAC TO VOR/DME
ADDED DIST FROM FAC FOR ALL FACILITIES

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ALAMOSA VORTAC **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 372056.97N/1054855.93W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ALAMOSA	ALS	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V210 11200 WESTBOUND
MCA V83 10400 SOUTHBOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	ALS	VORTAC	322.00	142.00	R	1		10000	14000	9	10
2	SE	ALS	VORTAC	121.38	301.38	R	1-1 1/2		10700	17500	9	20
3	SE		WP	122.38	302.38	R		7	10700	17500	10	17
4	NW	ALS	VORTAC	322.00	142.00	R	1		10700	14000	9	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	371248.00N/1054830.00W	9416	4E
2	230	AAO	371225.00N/1054722.00W	9384	4E
2	310	AAO	371248.00N/1052136.00W	9439	4E
3	230	AAO	371248.00N/1054830.00W	9416	4E
4	230	AAO	371248.00N/1054830.00W	9416	4E
4	310	AAO	370820.40N/1054949.00W	9676	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKE-OFF MINIMUMS	KALS	ALAMOSA	CO (US)
2	TAKE-OFF MINIMUMS	KMVI	MONTE VISTA	CO (US)
4	VOR/DME OR GPS-B	KALS	ALAMOSA	CO (US)
4	VOR OR GPS-A	KALS	ALAMOSA	CO (US)

REMARKS:
AUTHORIZED USE AT THIS FIX: LOW ALT - COMPULSORY; HIGH ALT - ON REQUEST.
PATTERN 1 CONTROLLING OBSTRUCTION LOCATED 4295 FT INTO SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	DEBERRY			KCOS	COLORADO SPRINGS	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DECI-BELLE			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	ATOMK (RNAV)			KABQ	ALBUQUERQUE	NM (US)
EN ROUTE	J102					(US)
EN ROUTE	J110					(US)
EN ROUTE	J13					(US)
EN ROUTE	J206					(US)
EN ROUTE	J44					(US)
EN ROUTE	V210					(US)
EN ROUTE	V368					(US)
EN ROUTE	V484					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 02		1	KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 02			KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 20			KALS	ALAMOSA	CO (US)
IAP	VOR OR GPS-A		4	KALS	ALAMOSA	CO (US)
IAP	VOR/DME OR GPS-B		4	KALS	ALAMOSA	CO (US)
IAP	GPS RWY 20			KMVI	MONTE VISTA	CO (US)
IAP	RNAV (GPS)-B		3	KMVI	MONTE VISTA	CO (US)

QUALITY CHECKED

IAP	VOR/DME-A	2	KMVI	MONTE VISTA	CO (US)
OTHER	TAKE-OFF MINIMUMS	2	KALS	ALAMOSA	CO (US)
OTHER	TAKE-OFF MINIMUMS	2	KMVI	MONTE VISTA	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 08/26/2010

REASON FOR REVISION:
1. CHANGE PAT1 MIN HOLDING ALTITUDE TO 10000, REV12 INCORRECTLY RAISED MIN HOLDING FROM 10000 TO 10500.
2. UPDATE FIX USE.
3. ADDED PAT4.

DEVELOPED BY: **DATE:** 05/17/2010 **OFFICE:** AVN-130 **NAME:** PATRICK MULQUEEN

APPROVED BY: **DATE:** 07/01/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY:
OTHER:

QUALITY CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: BLACK FOREST VOR/DME **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 385640.22N/1043800.48W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BLACK FOREST	BRK	VOR/DME	L							17500

FIX RESTRICTIONS:
MCA V81 10000 NORTHWEST BOUND
MCA V108 10700 WESTBOUND
MCA V611 10000 NORTHEAST BOUND
VOR UNUSABLE R-300 TO R-040 BEYOND 10 NM

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	BRK	VOR/DME	334.00	154.00	L	1		10000	14000	9	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (08-000087)	390246.00N/1044140.00W	7940	3A
1	310	AAO	390818.00N/1045033.59W	8055	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 TERRAIN

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	SPRINGS	KCOS	COLORADO SPRINGS	CO (US)
1	TAKEOFF MINIMUMS	KCOS	COLORADO SPRINGS	CO (US)

REMARKS:
PRECIPITOUS TERRAIN EVAL COMPLETED.
CHART PATTERN 1 ON LOW ENROUTE ALTITUDE CHART

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS		1	KCOS	COLORADO SPRINGS	CO (US)
DP	TAKEOFF MINIMUMS		1	KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	V108					(US)
EN ROUTE	V611					(US)
EN ROUTE	V81					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) RWY 31			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17R			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 08L			KPUB	PUEBLO	CO (US)
IAP	ILS OR LOC RWY 26R			KPUB	PUEBLO	CO (US)
IAP	VOR OR TACAN RWY 26R			KPUB	PUEBLO	CO (US)
STAR	DEBERRY			KCOS	COLORADO SPRINGS	CO (US)
STAR	LARKS			KDEN	DENVER	CO (US)

QUALITY CHECKED 6

STAR QUAIL KDEN DENVER CO (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED 310 CONTROLLING OBSTACLE
UPDATED FIX USE
UPDATED NAME FROM BLACK FOREST VORTAC TO BLACK FOREST VOR/DME

DEVELOPED BY:	**DATE:** 11/16/2011	**OFFICE:** AJV-354	**NAME:** ADOLFO URRUTIA (DANA MITCHELL)
APPROVED BY:	**DATE:** 01/26/2012	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: COS APP CON
OTHER: COS ATCT

QUALITY CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PUEBLO VOR/DME **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 381739.32N/1042546.01W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PUEBLO	PUB	VOR/DME	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	PUB	VOR/DME	064.22	244.22	R	1-1 1/2		7400	17500	8	20
2	NE	PUB	VOR/DME	066.78	246.78	R	1-1 1/2		7500	14000	8	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (08-000066)	382224.00N/1043329.00W	6303	4D
1	310	TOWER (08-000066)	382224.00N/1043329.00W	6303	4D
2	230	TOWER (08-000066)	382224.00N/1043329.00W	6303	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KPUB	PUEBLO	CO (US)
2	VOR/DME RWY 26R	KPUB	PUEBLO	CO (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 230K OBSTACLE LOCATED 8412 FEET INTO SECONDARY.
PAT 2 230K OBSTACLE LOCATED 4902 FEET INTO SECONDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	PUEBLO (RNAV) (OBSTACLE)			KAEJ	BUENA VISTA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DECI-BELLE			KDEN	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J104					(US)
EN ROUTE	J17					(US)
EN ROUTE	J28					(US)
EN ROUTE	J64					(US)
EN ROUTE	V10					(US)
EN ROUTE	V244					(US)
EN ROUTE	V389					(US)
EN ROUTE	V611					(US)
EN ROUTE	V81					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R		1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT 1)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) RWY 31			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17R			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC/DME RWY 08L			KPUB	PUEBLO	CO (US)
IAP	ILS OR LOC/DME RWY 26R			KPUB	PUEBLO	CO (US)

QUALITY CHECKED

IAP	RNAV (GPS) RWY 08L		KPUB	PUEBLO	CO (US)
IAP	RNAV (GPS) RWY 26R		KPUB	PUEBLO	CO (US)
IAP	VOR/DME RWY 26R	2	KPUB	PUEBLO	CO (US)
OTHER	TAKE-OFF MINIMUMS		K1V6	CANON CITY	CO (US)
OTHER	TAKE-OFF MINIMUMS	1	KPUB	PUEBLO	CO (US)
STAR	DEBERRY		KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD		KDEN	DENVER	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)
STAR	QUAIL		KDEN	DENVER	CO (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 16 **DATE OF REVISION:**

REASON FOR REVISION:
FIX NAME CHANGED FROM PUB VORTAC TO PUB VOR/DME.
FACILITY TYPE CHANGED FROM VORTAC TO VOR/DME.
ADDED PAT 2 HOLDING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/02/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: PUB ATCT, COS ATCT
OTHER: COS APP CON