

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

**TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

|   |   |   |  |                                   |                              |                                  |
|---|---|---|--|-----------------------------------|------------------------------|----------------------------------|
| <u><b>AIRPORT ID</b></u><br>KDRO        | <u><b>PROCEDURE NAME</b></u><br>RNAV (GPS) RWY 21 | <u><b>ORIGINAL/AMENDMENT</b></u><br>ORIG-A    | <u><b>CITY</b></u><br>DURANGO                    | <u><b>STATE</b></u><br>CO         |                              |                                  |
| <u><b>AIRPORT ELEVATION</b></u><br>6689 | <u><b>TDZE</b></u><br>6689                        | <u><b>SUPERSEDED</b></u><br>RNAV (GPS) RWY 21 | <u><b>ORIGINAL/AMENDMENT</b></u><br>ORIG         | <u><b>DATED</b></u><br>10/10/2019 | <u><b>MAG VAR</b></u><br>10E | <u><b>EPOCH YEAR</b></u><br>2010 |
| <u><b>FACILITY</b></u><br>RNAV          | <u><b>COORDINATES OF FACILITIES</b></u>           | <u><b>ACTUAL EFFECTIVE DATE</b></u>           | <u><b>REQUIRED EFFECTIVE DATE</b></u><br>ROUTINE | <u><b>CANCEL/SUSPEND</b></u>      |                              |                                  |

**TERMINAL ROUTES**

| <u><b>FROM</b></u>    | <u><b>FIX TYPE</b></u> | <u><b>TO</b></u>      | <u><b>FIX TYPE</b></u> | <u><b>LEG TYPE</b></u> | <u><b>FO/FB</b></u> | <u><b>RNP</b></u> | <u><b>COURSE</b></u> | <u><b>DISTANCE</b></u> | <u><b>ALTITUDE</b></u> |
|-----------------------|------------------------|-----------------------|------------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|
| RESER                 |                        | NICCC                 |                        | TF                     | FB                  | 1.00              | 010.10               | 18.88                  | 13700                  |
| BBRTA                 |                        | NICCC                 |                        | TF                     | FB                  | 1.00              | 321.30               | 15.00                  | 13700                  |
| JIIIM                 |                        | NICCC                 |                        | TF                     | FB                  | 1.00              | 238.22               | 9.53                   | 13700                  |
| NICCC                 | IAF                    | KRSSE                 |                        | TF                     | FB                  | 1.00              | 294.81               | 10.57                  | 11000                  |
| KRSSE                 | IF                     | CADNC                 |                        | TF                     | FB                  | 1.00              | 225.45               | 3.82                   | 9700                   |
| CADNC                 |                        | MATTU                 |                        | TF                     | FB                  | 1.00              | 225.41               | 3.18                   | 8800                   |
| MATTU                 | FAF                    | KUPRR/4.00 NM TO RW21 |                        | TF                     | FB                  | 0.30              | 210.43               | 2.47                   |                        |
| KUPRR/4.00 NM TO RW21 |                        | STENG/2.51 NM TO RW21 |                        | TF                     | FB                  | 0.30              | 210.43               | 1.49                   |                        |
| STENG/2.51 NM TO RW21 |                        | RW21                  | MAP                    | TF                     | FO                  | 0.30              | 210.43               | 2.51                   |                        |
| RW21                  | MAP                    | 7019 MSL              |                        | CA                     |                     |                   | 210.43               |                        |                        |
| 7019 MSL              |                        | ELLLL                 |                        | DF                     | FB                  | 1.00              |                      |                        |                        |
| ELLLL                 |                        | RIZAL                 |                        | TF                     | FO                  | 1.00              | 259.81               | 13.73                  | 11000                  |

**MISSED APPROACH**

**MAP:**

LNAV/VNAV: DA  
LNAV: RW21

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 11000 DIRECT ELLLL AND ON TRACK 259.81 TO RIZAL AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT KRSSE

3. FAF: 210.43FAF: MATTUDIST FAF TO MAP: 6.47DIST FAF TO THLD: 6.47

4. MIN ALT: KRSSE 11000, CADNC 9700, MATTU 8800, KUPRR/4.00 NM TO RW21 8000\*, STENG/2.51 NM TO RW21 7540\*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:330 HAT: 0.87GS ANT:

6. MIN GP INCPT: 8800GP ALT AT FAF : MATTU 8800OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 51.0

8. MSA FROM: RW21 15200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BBRTA ON V211 EASTBOUND.  
CHART SPEED ICON IN PLANVIEW AT NICCC: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT KRSSE: MAX 180 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 156.41 INBOUND.  
CHART FAS OBST: 6808 TOWER 371009N/1074458W.  
7879 AAO 371522N/1073952W, 7379 AAO 371258N/1074112W, 6935 AAO 371207N/1074303W.  
CHART VDP AT 1.19 NM TO RW21\*  
\*LNAV ONLY.  
CHART CIRCLING ICON.  
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 3.00 DEGREES.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2, CAT D 1500-3

| CATEGORY:    | A      |     |         | B      |     |         | C      |       |         | D      |       |         | E      |     |         |
|--------------|--------|-----|---------|--------|-----|---------|--------|-------|---------|--------|-------|---------|--------|-----|---------|
| FINAL TYPE   | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS   | HAT/HAA | DA/MDA | VIS   | HAT/HAA | DA/MDA | VIS | HAT/HAA |
| LNAV/VNAV DA | 7019   | 1   | 330     | 7019   | 1   | 330     | 7019   | 1     | 330     | 7019   | 1     | 330     |        |     |         |
| LNAV MDA     | 7120   | 1   | 431     | 7120   | 1   | 431     | 7120   | 1 1/4 | 431     | 7120   | 1 1/4 | 431     |        |     |         |
| CIRCLING     | 7160   | 1   | 471     | 7220   | 1   | 531     | 7540   | 2 1/2 | 851     | 8140   | 3     | 1451    |        |     |         |



**CHANGES - REASONS**

1. REMOVED LPV DA LINE OF MINIMA, MISSED APPROACH 'LPV: DA', ADDITIONAL FLIGHT DATA NOTE: 'LTP HAE: 2019.3 M', 'WAAS CHANNEL # 42543', 'REFERENCE PATH ID: W21A', ALL FAS DATA FROM PROCEDURE - PER FLIGHT CHECK, CLEAR NOTAM FDC 0/7054.
2. PROFILE, LINE 5: CHANGED DIST TO THLD FROM 'DIST TO 250 HAT: 062' TO 'DIST TO 330 HAT: 087' - REMOVED LPV DA LINE OF MINIMA.
3. CHANGED CA ALTITUDE FROM 6939 TO 7019 - IAW 8260.58A 3-5-2(B).

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☐ **APA** ☒ **HAI** ☐ **NBAA** ☐ **OTHER:** ZDZ, DEN TRACON, AERO, AMGR, ATA

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**OFFICE** *Digitally signed by* **DATE**  
**DAVID TEFFETELLER**

Sep 10, 2020

**DEVELOPED BY**

RAFAEL A MARTINEZ

*Digitally signed by*  
**DAVID TEFFETELLER**  
Sep 10, 2020

**OFFICE** **DATE**  
AJV-A433 06/11/2020

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**DAVID TEFFETELLER**  
Sep 10, 2020

**OFFICE** **DATE**  
AJV-A430

**TITLE**  
MANAGER



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

|                           |  |                           |                        |                    |                                  |                         |
|---------------------------|--|---------------------------|------------------------|--------------------|----------------------------------|-------------------------|
| <u>AIRPORT ID</u><br>KDRO | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 21 | <u>AMDT NO.</u><br>ORIG-A | <u>CITY</u><br>DURANGO | <u>STATE</u><br>CO | <u>AIRPORT ELEVATION</u><br>6689 | <u>FACILITY</u><br>RNAV |
|---------------------------|--|---------------------------|------------------------|--------------------|----------------------------------|-------------------------|

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
RESER

TO  
NICCC

| <u>RNP</u>         | <u>DISTANCE</u><br>18.88 | <u>PAT</u> | <u>MAP</u>      | <u>HAT</u>  | <u>HMAS</u> |           |            |            |           |             |                    |                |
|--------------------|--------------------------|------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>       |            | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| 1.AAO              | 371203.00N/1072548.00W   |            | 9088            | 164         | 98          | 4E        | 2000       |            |           |             | AT2612             | 13700          |
| 2.TERRAIN          | 371130.00N/1072527.00W   |            | 8533 (8500)     |             |             |           |            |            |           |             | AS1500             | 10000          |

COMPUTATIONS

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM  
BBRTA

TO  
NICCC

| <u>RNP</u>         | <u>DISTANCE</u><br>15.00 | <u>PAT</u> | <u>MAP</u>      | <u>HAT</u>  | <u>HMAS</u> |           |            |            |           |             |                    |                |
|--------------------|--------------------------|------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>       |            | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| 3.AAO              | 370612.00N/1071924.00W   |            | 8707            | 164         | 98          | 4E        | 2000       |            |           |             | AT2993             | 13700          |
| 4.TERRAIN          | 370612.00N/1071924.00W   |            | 8507 (8500)     |             |             |           |            |            |           |             | AS1500             | 10000          |

COMPUTATIONS

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FEEDER

FROM  
JIIIM

TO  
NICCC

| RNP         | DISTANCE<br>9.53       | PAT | MAP         | HAT  |      |    | HMAS |     |    |      |             |         |
|-------------|------------------------|-----|-------------|------|------|----|------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 5.AAO       | 371609.00N/1071654.00W |     | 9616        | 164  | 98   | 4E | 2000 |     |    |      | AT2084      | 13700   |
| 6.TERRAIN   | 371609.00N/1071654.00W |     | 9476 (9500) |      |      |    |      |     |    |      | AS1500      | 11000   |

| COMPUTATIONS |      |      |     |      |    |    |     |               |      |         |                        |  |
|--------------|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|--|
| ALT          | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |  |

SEGMENT REMARKS:

INITIAL

FROM  
NICCC

TO  
KRSSE

| RNP         | DISTANCE<br>10.57      | PAT | MAP         | HAT  |      |    | HMAS |     |    |      |             |         |
|-------------|------------------------|-----|-------------|------|------|----|------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 7.AAO       | 371254.00N/1072718.00W |     | 9144        | 164  | 98   | 4E | 1000 |     |    |      | PR360 AT496 | 11000   |
| 8.TERRAIN   | 371254.00N/1072718.00W |     | 8943 (8900) |      |      |    |      |     |    |      | AT1500      | 10400   |

| COMPUTATIONS |      |      |     |      |    |    |     |               |      |         |                        |  |
|--------------|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|--|
| ALT          | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |  |

SEGMENT REMARKS:



INTERMEDIATE

FROM  
KRSSE

TO  
CADNC

| RNP         | DISTANCE<br>3.82       | PAT | MAP         | HAT  |      |    | HMAS |     |    |      |              |         |
|-------------|------------------------|-----|-------------|------|------|----|------|-----|----|------|--------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS  | MIN ALT |
| 9.AAO       | 372128.07N/1073313.69W |     | 9680        | 50   | 20   | 2C | 500  |     |    |      | SA-677 PR190 | 9700    |
| 10.TERRAIN  | 371912.00N/1073236.00W |     | 8625 (8600) |      |      |    |      |     |    |      | AS1000       | 9600    |

| COMPUTATIONS | ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM  
CADNC

TO  
MATTU

| RNP         | DISTANCE<br>3.18       | PAT | MAP         | HAT  |      |    | HMAS |     |    |      |             |         |
|-------------|------------------------|-----|-------------|------|------|----|------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 11.AAO      | 371847.87N/1073748.47W |     | 8485        | 50   | 20   | 2C | 500  |     |    |      | SA-353      | 8700    |
| 12.TERRAIN  | 371724.00N/1073833.00W |     | 7831 (7800) |      |      |    |      |     |    |      | AS1000      | 8800    |

| COMPUTATIONS | ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM  
MATTU

TO  
RW21

| RNP                  | DISTANCE<br>6.47       | PAT | MAP<br>DA | HAT<br>330 |      |    | HMAS |     |    |      |             |         |
|----------------------|------------------------|-----|-----------|------------|------|----|------|-----|----|------|-------------|---------|
| OBSTRUCTION          | COORDINATES            |     | ELEV MSL  | HORZ       | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 15.TOWER (08-001193) | 371008.90N/1074458.20W |     | 6808      | 250        | 50   | 4D | 161  |     |    |      | AC50        | 7019    |

COMPUTATIONS

|     |      |      |     |      |    |    |     |               |      |         |                        |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
| ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:

FINAL: LNAV

FROM  
MATTU

TO  
KUPRR/4.00 NM TO RW21

| RNP         | DISTANCE<br>2.47       | PAT | MAP      | HAT  |      |    | HMAS |     |    |      |             |         |
|-------------|------------------------|-----|----------|------|------|----|------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 13.AAO      | 371434.23N/1074030.97W |     | 7639     | 50   | 20   | 2C | 250  |     |    |      | XL24 AT87   | 8000    |

COMPUTATIONS

|     |      |      |     |      |    |    |     |               |      |         |                        |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
| ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

KUPRR/4.00 NM TO RW21

TO

STENG/2.51 NM TO RW21

| RNP         | DISTANCE               | PAT | MAP      | HAT  |      |    | HMAS |     |    |      |             |         |
|-------------|------------------------|-----|----------|------|------|----|------|-----|----|------|-------------|---------|
|             | 1.49                   |     |          |      |      |    |      |     |    |      |             |         |
| OBSTRUCTION | COORDINATES            |     | ELEV MSL | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 14.AAO      | 371222.16N/1074121.70W |     | 7279     | 50   | 20   | 2C | 250  |     |    |      |             | 7540    |

COMPUTATIONS

|     |      |      |     |      |    |    |     |               |      |         |                        |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
| ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

STENG/2.51 NM TO RW21

TO

RW21

| RNP                  | DISTANCE               | PAT | MAP      | HAT  |      |     | HMAS |     |    |      |             |         |
|----------------------|------------------------|-----|----------|------|------|-----|------|-----|----|------|-------------|---------|
|                      | 2.51                   |     | RW21     |      |      | 431 |      |     |    |      |             |         |
| OBSTRUCTION          | COORDINATES            |     | ELEV MSL | HORZ | VERT | AC  | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| 15.TOWER (08-001193) | 371008.90N/1074458.20W |     | 6808     | 250  | 50   | 4D  | 250  |     |    |      | AC50        | 7120    |

COMPUTATIONS

|     |      |      |     |      |    |    |     |               |      |         |                        |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
| ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:





MISSED APPROACH : LNAV/VNAV

FROM  
DA

TO  
RIZAL

| RNP         | DISTANCE               | PAT | MAP         | HAT  |      |    | HMAS<br>6858 |     |    |      |             |         |
|-------------|------------------------|-----|-------------|------|------|----|--------------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC          | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|             |                        |     |             |      |      |    |              | ASC |    |      |             | 11000   |
| 17.AAO      | 370253.46N/1075736.30W |     | 7742        | 50   | 20   | 2C |              |     |    |      |             | 7800    |
| 18.TERRAIN  | 370253.46N/1075736.30W |     | 7542 (7500) |      |      |    |              |     |    |      | AS1500      | 9000    |

| COMPUTATIONS | ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM  
RW21

TO  
RIZAL

| RNP         | DISTANCE               | PAT | MAP         | HAT  |      |    | HMAS<br>7020 |     |    |      |             |         |
|-------------|------------------------|-----|-------------|------|------|----|--------------|-----|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT | AC | ROC          | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|             |                        |     |             |      |      |    |              | ASC |    |      |             | 11000   |
| 17.AAO      | 370253.46N/1075736.30W |     | 7742        | 50   | 20   | 2C |              |     |    |      |             | 7800    |
| 18.TERRAIN  | 370253.46N/1075736.30W |     | 7542 (7500) |      |      |    |              |     |    |      | AS1500      | 9000    |

| COMPUTATIONS | ALT | KIAS | KTAS | HAA | VKTW | TR | BA | DTA | COURSE CHANGE | DVEB | VEB OCS | RF CENTER FIX/DISTANCE |
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|
|--------------|-----|------|------|-----|------|----|----|-----|---------------|------|---------|------------------------|

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

| OBSTRUCTION            | COORDINATES            | RADIUS | HAA  | ELEV MSL | HORZ | VERT | AC | ROC | OCS | ADJUSTMENTS | MIN ALT |
|------------------------|------------------------|--------|------|----------|------|------|----|-----|-----|-------------|---------|
| CATEGORY A             |                        |        |      |          |      |      |    |     |     |             |         |
| 19.ANTENNA (08-054075) | 370920.46N/1074641.17W | 1.44   | 471  | 6844     | 20   | 10   | 1B | 300 |     |             | 7160    |
| CATEGORY B             |                        |        |      |          |      |      |    |     |     |             |         |
| 20.TOWER (08-001167)   | 370943.68N/1074710.98W | 2.07   | 531  | 6903     | 50   | 20   | 2C | 300 |     |             | 7220    |
| CATEGORY C             |                        |        |      |          |      |      |    |     |     |             |         |
| 21.TREE                | 370514.25N/1074516.68W | 3.28   | 851  | 7234     | 50   | 20   | 2C | 300 |     |             | 7540    |
| CATEGORY D             |                        |        |      |          |      |      |    |     |     |             |         |
| 22.AAO                 | 370442.40N/1074609.73W | 4.36   | 1451 | 7840     | 50   | 20   | 2C | 300 |     |             | 8140    |

CIRCLING REMARKS:

MSA

| CENTER | RADIUS |
|--------|--------|
| RW21   | 25     |

| SECTOR  | OBSTRUCTION | COORDINATES            | BEARING | DISTANCE | ELEV MSL | HORZ | VERT | AC | ROC  | OCS | ADJUSTMENTS | MIN ALT |
|---------|-------------|------------------------|---------|----------|----------|------|------|----|------|-----|-------------|---------|
| 360-360 | TERRAIN     | 373718.00N/1073721.00W | 002     | 28.2     | 14160    | 250  | 125  | 4E | 1000 |     |             | 15200   |

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZDV ARTCC, DEN FSS

|                           |                         |                            |                                 |                      |                       |                         |
|---------------------------|-------------------------|----------------------------|---------------------------------|----------------------|-----------------------|-------------------------|
| <u>WX SERVICE</u><br>ASOS | <u>LOCATION</u><br>KDRO | <u>HRS OPERATION</u><br>24 | <u>ALTIMETER SOURCE</u><br>KDRO | <u>DISTANCE</u><br>0 | <u>SERVICE-A</u><br>Y | <u>ADJUSTMENTS</u><br>0 |
| <u>BACK-UP WX SERVICE</u> | <u>LOCATION</u>         | <u>HRS OPERATION</u>       | <u>ALTIMETER SOURCE</u>         | <u>DISTANCE</u>      | <u>SERVICE-A</u>      | <u>ADJUSTMENTS</u>      |

WX REMARKS:

|   |                      |                        |                            |
|---|----------------------|------------------------|----------------------------|
| <u>PRIMARY NAVAID</u>                         | <u>MONITOR POINT</u> | <u>HRS OPERATION</u>   | <u>CAT</u>                 |
| <u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>    |                      | <u>RUNWAY MARKINGS</u> | <u>RUNWAY VISUAL RANGE</u> |
| RW03 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL) |                      | PIR-G                  |                            |
| RW21 - HIRL (PCL), REIL (PCL), VASI-4L (PCL)  |                      | PIR-G                  |                            |

|                                 |                                     |                    |                        |                          |                           |                    |
|---------------------------------|-------------------------------------|--------------------|------------------------|--------------------------|---------------------------|--------------------|
| <u>GLIDESLOPE ANGLE</u><br>3.00 | <u>ELEV RWY THRESHOLD</u><br>6689.3 | <u>TCH</u><br>51.0 | <u>ELEV GS ANTENNA</u> | <u>DISTANCE FROM RWY</u> | <u>VGSI ANGLE</u><br>3.00 | <u>TCH</u><br>51.0 |
|---------------------------------|-------------------------------------|--------------------|------------------------|--------------------------|---------------------------|--------------------|

FINAL APPROACH COURSE AIMING

|                  |                                     |                    |                              |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE    | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

CRITICAL TEMPERATURES

|                             |                              |                    |                          |
|-----------------------------|------------------------------|--------------------|--------------------------|
| <u>CRITICAL LOW</u><br>-20C | <u>CRITICAL HIGH</u><br>+54C | <u>ACT</u><br>-20C | <u>APT ISA</u><br>+1.75C |
|-----------------------------|------------------------------|--------------------|--------------------------|

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2014-2018).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 1051 HIGH TEMP 1387.

"VISUAL PORTION OF FINAL" PENETRATIONS

|   |                 |
|---|-----------------|
| Final Type  | LNAV/VNAV, LNAV |
| 34:1  |                 |
| 6706 BUILDING (08-000578) 370949.00N/1074436.00W (0.63) |                 |



**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

|                              |
|------------------------------|
| <b>PENETRATIONS REMARKS:</b> |
|                              |

**PART C: GENERAL REMARKS:**

FPT REQUEST BACK-UP ALTIMETER NOT BE PUBLISHED IAW FAAO 8260.19H PARA 8-6-9, F(3)

WAIVER: ORDER 8260.58A PARA 3-4-2, ALIGNMENT, DISTANCE FROM THE DA POINT TO THE RUNWAY COURSE INTERCEPT 3783.63 MUST BE WITHIN 1100 AND 1200 FEET FOR LPV PROCEDURES.

PER FLIGHT INSPECTION REPORT SG-06-060-19, 08/21/2019: PROCEDURE SAT WITH CHANGES. COMMISSIONING WAS SAT EXCEPT FOR LPV LINE OF MINIMA. THE HORIZONTAL PROTECTION LIMIT (HPL) AND THE VERTICAL PROTECTION LIMIT (VPL) WAS OUT OF TOLERANCE. POSSIBLE GPS INTERFERENCE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 7879 AAO 371522.48N/1073951.90W.  
ORDER 8260.3 CHAPTER 2 APPLIED TO 7379 AAO 371257.52N/1074111.77W.  
ORDER 8260.3 CHAPTER 2 APPLIED TO 6935 AAO 371206.73N/1074303.25W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



|   |  |                                       |                                    |                                |  |                                     |
|---|--|---------------------------------------|------------------------------------|--------------------------------|--|-------------------------------------|
| <div>AIRPORT ID</div> <div>KDRO</div>   | <div>PROCEDURE NAME</div> <div>RNAV (GPS) RWY 21</div> | <div>AMDT NO.</div> <div>ORIG-A</div> | <div>CITY</div> <div>DURANGO</div> | <div>STATE</div> <div>CO</div> | <div>AIRPORT ELEVATION</div> <div>6689</div> | <div>FACILITY</div> <div>RNAV</div> |
| PART D: AIRSPACE  |  |                                       |                                    |                                |  |                                     |
| DOCKET # 18-ANM-1   |  |                                       |                                    |                                |  |                                     |
| ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE |  |                                       |                                    |                                |  |                                     |
| DISTANCE FROM   | THLD   | TO 1000FT POINT                       | 5.53                               |                                |  |                                     |
| WIDTH OF  | FINAL  | SEGMENT AT 1000FT POINT               | 1.44                               |                                |  |                                     |
| TRUE COURSE OF  | FINAL  | SEGMENT CONTAINING 1000FT POINT       | 220.43                             |                                |  |                                     |
| HIGH TERRAIN IN   | FINAL  | SEGMENT CONTAINING 1000FT POINT       | 7458                               |                                |  |                                     |
| DISTANCE FROM   | FAF  | TO 1500FT POINT                       | 5.20                               |                                |  |                                     |
| WIDTH OF  | INTERMEDIATE   | SEGMENT AT 1500FT POINT               | 4.00                               |                                |  |                                     |
| TRUE COURSE OF  | INTERMEDIATE   | SEGMENT CONTAINING 1500FT POINT       | 235.45                             |                                |  |                                     |
| HIGH TERRAIN IN   | INTERMEDIATE   | SEGMENT CONTAINING 1500FT POINT       | 8625                               |                                |  |                                     |
| THRESHOLD<br>COORDINATES<br>(IF STR-IN)   | 370941.60N/1074439.08W                                 |                                       |                                    |                                |  |                                     |
| ARP COORDINATES   | 370905.50N/1074513.60W                                 |                                       |                                    |                                |  |                                     |
| RUNWAY APCH END<br>AND DIST FURTHEST<br>FROM ARP  | RUNWAY 3 DISTANCE 0.76 NM                              |                                       |                                    |                                |  |                                     |
| FAF<br>COORDINATES  | 371437.38N/1073924.32W                                 |                                       |                                    |                                |  |                                     |
| FIX NAME<br>COORDINATES   |  |                                       |                                    |                                |  |                                     |
| REMARKS   |  |                                       |                                    |                                |  |                                     |

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16  
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PART E: PREPARED BY

|                                  |                           |                           |   |
|----------------------------------|---------------------------|---------------------------|---|
| <u>NAME</u><br>RAFAEL A MARTINEZ | <u>OFFICE</u><br>AJV-A433 | <u>DATE</u><br>06/11/2020 | <u>TITLE</u><br>AERONAUTICAL INFORMATION SPECIALIST |
|----------------------------------|---------------------------|---------------------------|---|

