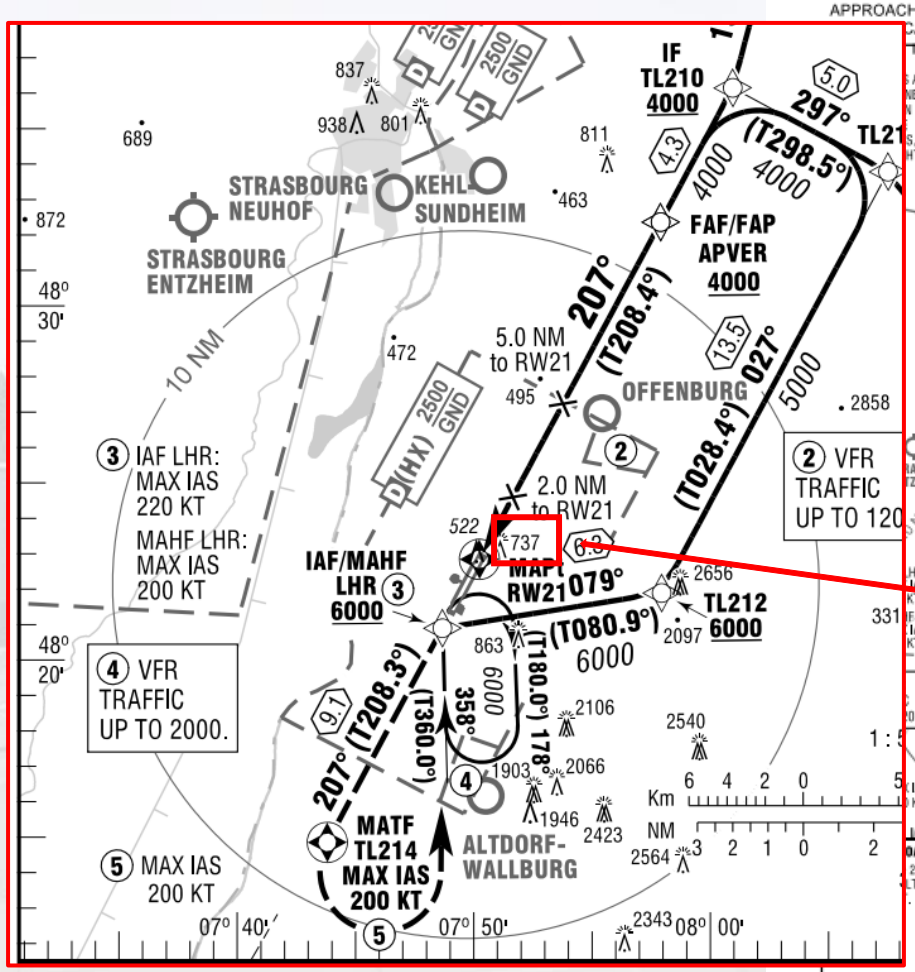
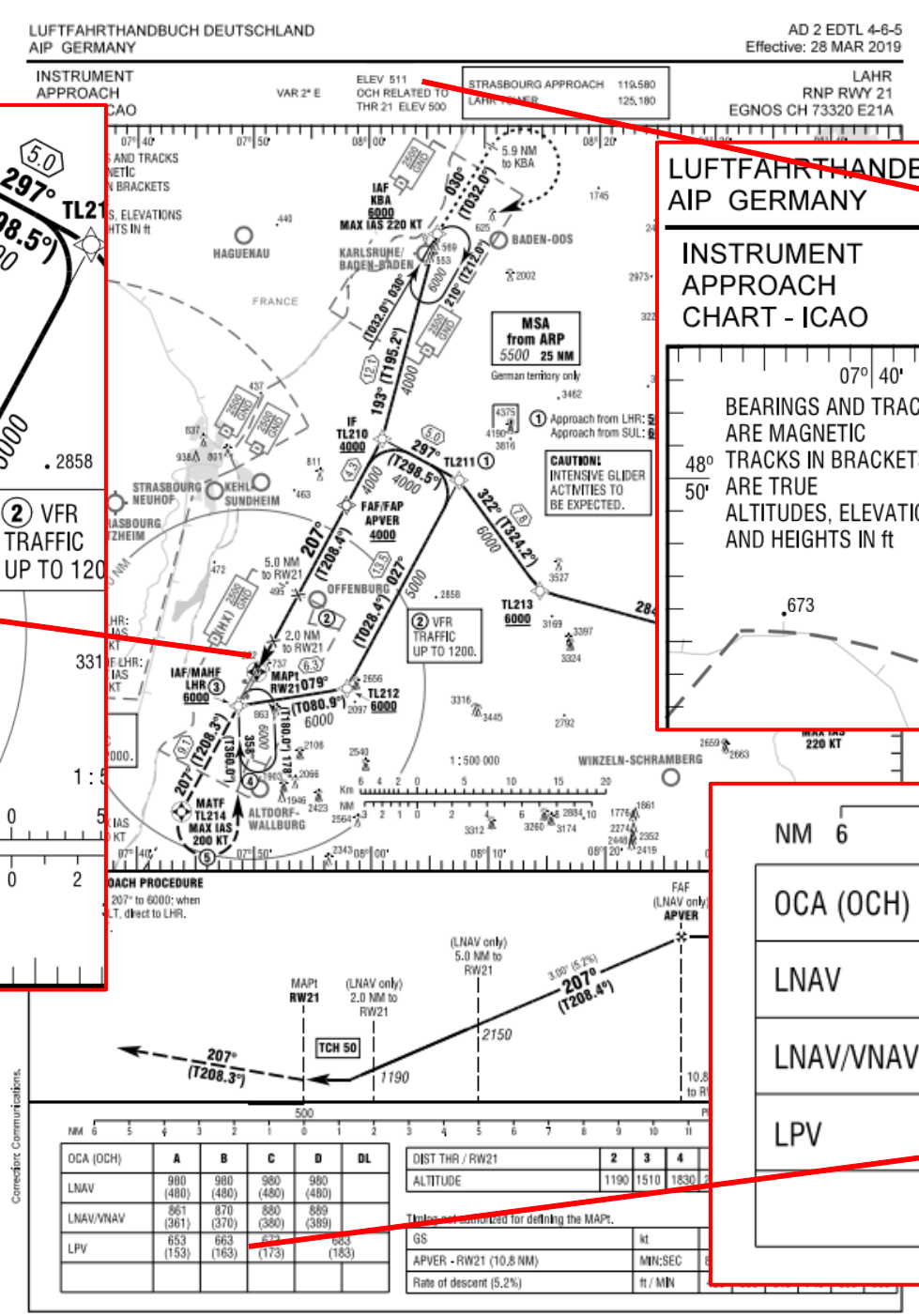
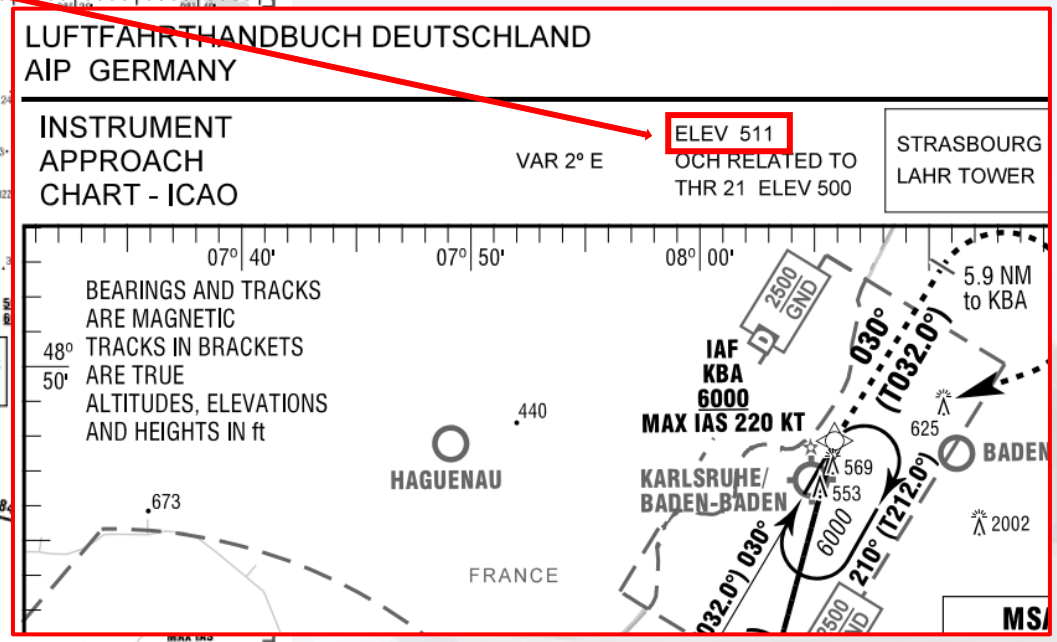
IDRF Interessengemeinschaft der regionalen Flugplätze e.V.

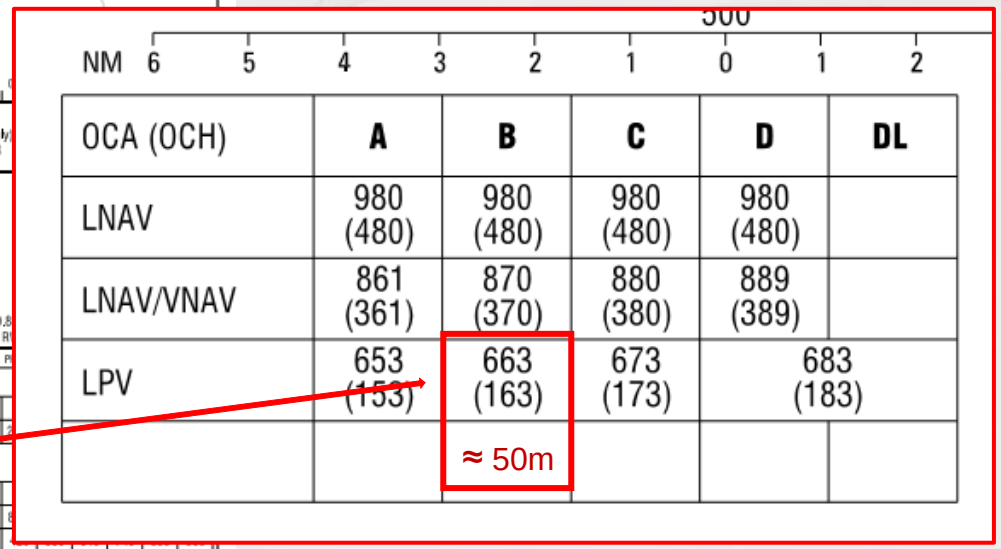
Obstacle Free Environment
- A Pilot's Perspective -

OFS will consist of different surfaces defining a volume of airspace free from obstacles, in the close vicinity of the runway, where operations are critical as they have nearly no flexibility to avoid obstacles.









OCA (OCH)	A	B	C	D	DL
LNAV	980 (480)	980 (480)	980 (480)	980 (480)	
LNAV/VNAV	861 (361)	870 (370)	880 (380)	889 (389)	
LPV	653 (153)	663 (163)	673 (173)	683 (183)	
		≈ 50m			

[Approach synthetic vision EDTL 21 with SBAS LPV200.MOV]


PRODIGY TOUCH
FMS AP GP
206°
TA ONLY
APVER faf → RW21 map
FMS LPV
Traffic Inset
PFD Settings
OBS
Active NAV FMS
Sensors

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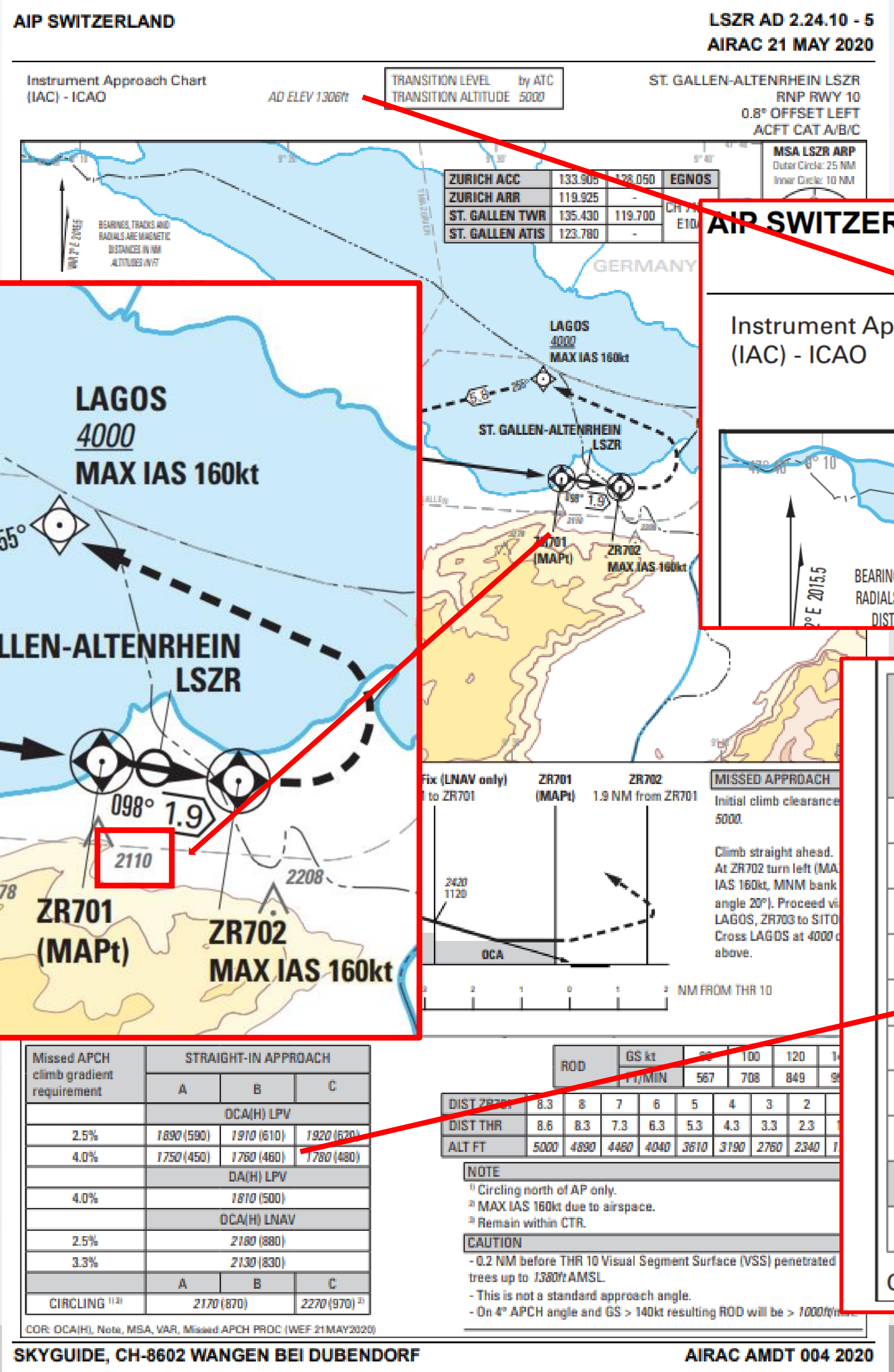
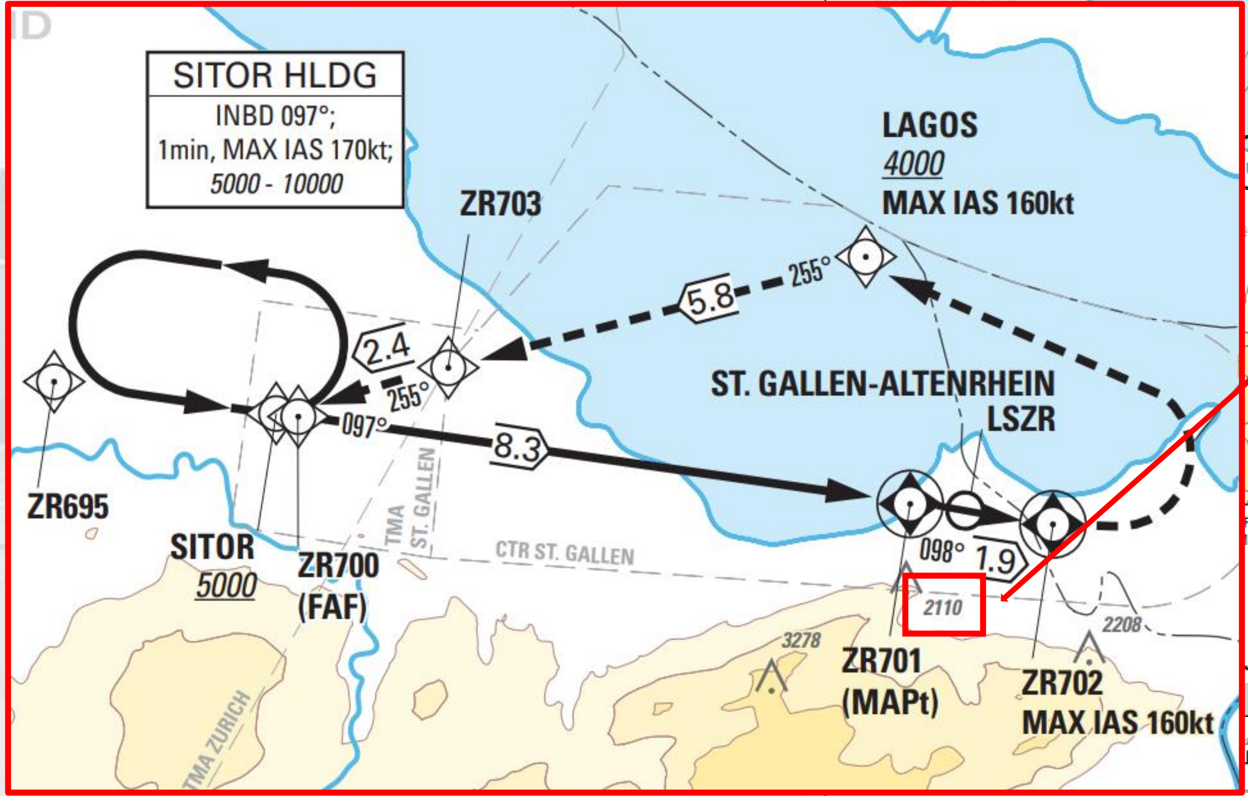
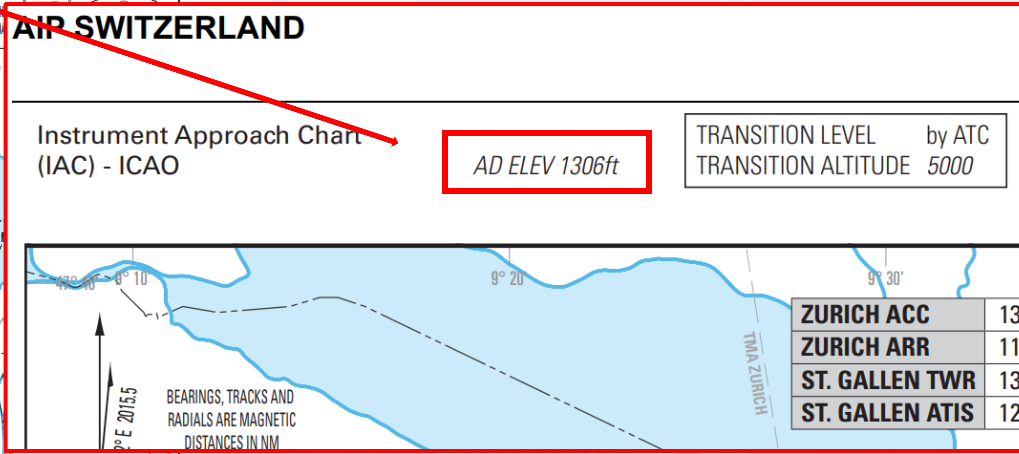
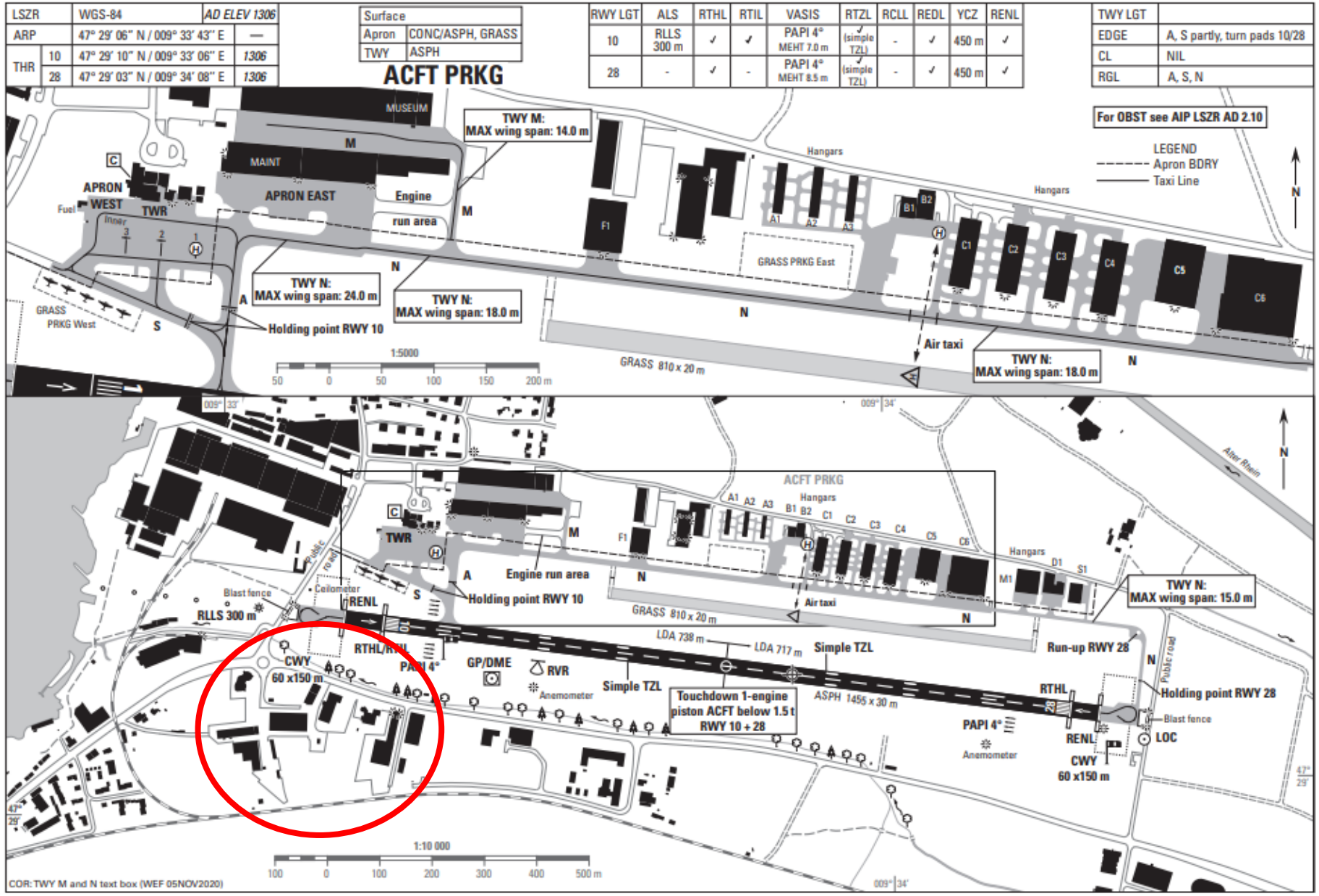






Missed APCH climb gradient requirement	STRAIGHT-IN APPROACH		
	A	B	C
	OCA(H) LPV		
2.5%	*1890* (590)	*1910* (610)	*1920* (620)
4.0%	*1750* (450)	*1760* (460)	*1780* (480)
	DA(H) LPV		
4.0%	*1810* (500)		
	OCA(H) LNAV		
2.5%	*2180* (880)		
3.3%	*2130* (830)		
	A	B	C
CIRCLING 1) 3)	*2170* (870)		*2270* (970) 2)

COR: OCA(H), Note, MSA, VAR, Missed APCH PROC (WEF 21MAY2020)


LSZR WGS-84 AD ELEV 1306
ARP 47° 29' 06" N / 009° 33' 43" E —
THR 10 47° 29' 10" N / 009° 33' 06" E 1306
THR 28 47° 29' 03" N / 009° 34' 08" E 1306
Surface
Apron CONC/ASPH, GRASS
TWY ASPH
ACFT PRKG
RWY LGT ALS RTHL RTIL VASIS RTZL RCLL REDL YCZ RENL
10 RLLS 300 m ✓ ✓ PAPI 4° MEHT 7.0 m ✓ (simple TZL) - ✓ 450 m ✓
28 - ✓ - PAPI 4° MEHT 8.5 m ✓ (simple TZL) - ✓ 450 m ✓
TWY LGT
EDGE A, S partly, turn pads 10/28
CL NIL
RGL A, S, N
For OBST see AIP LSZR AD 2.10
LEGEND
Apron BDRY
Taxi Line
MUSEUM
MAINT
APRON EAST
APRON WEST
TWR
Engine run area
Hangars
GRASS PRKG East
GRASS PRKG West
TWY M: MAX wing span: 14.0 m
TWY N: MAX wing span: 24.0 m
TWY N: MAX wing span: 18.0 m
Holding point RWY 10
Air taxi
GRASS 810 x 20 m
1:5000
TWY N: MAX wing span: 15.0 m
Engine run area
RENL
Blast fence
RLLS 300 m
Ceilometer
CWY 60 x150 m
RTHL/RTIL
PAPI 4°
GP/DME
RVR
Anemometer
Simple TZL
LDA 738 m
LDA 717 m
Touchdown 1-engine piston ACFT below 1.5 t RWY 10 + 28
Run-up RWY 28
ASPH 1456 x 30 m
Holding point RWY 28
LOC
1:10 000
COR: TWY M and N text box (WEF 05NOV2020)

Approach_LSZR_St.Gallen_switzerland.mp4

Obstacle Free Environment
- A Pilot's Perspective -

- Reliable information is essential
- Maintain the ideal world as good as possible
- Most relevant for departure:
  - Accuracy of navigation
  - Wingspan
  - Aircraft-performance and usability
  - Abnormal operation (e.g. one-engine-inop)
- Most relevant for approach:
  - Accuracy of navigation
  - Wingspan
  - Approach-speed
  - Visibility
  - Missed approach procedures (incl. A/C-performance and abnormals)