

MISSION DATA CARD							
OPORD		Callsign		Mission		Date/Time	
1928/2023		Cougar 1		Training		222000MAY23	
Task	Formation Landing & Takeoff						Freq
AO	Northwar						261.25
Departure				Recovery			
DREAM FOUR				RAMMM			
#	Callsign	Pilot		IFF	TCN	LSR	NET
-1	Cougar 1-1	Striver		1111	21Y	1561	
-2	Cougar 1-2	Bane		1112	84Y	1562	
-3	Cougar 1-3	Repsus/Lempo		1113	84X	1563	

LOADOUT			
A/A		GUN	100% HEI
A/G		CHF	140
POD		FLR	60
TKS		FUEL	100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	16200				

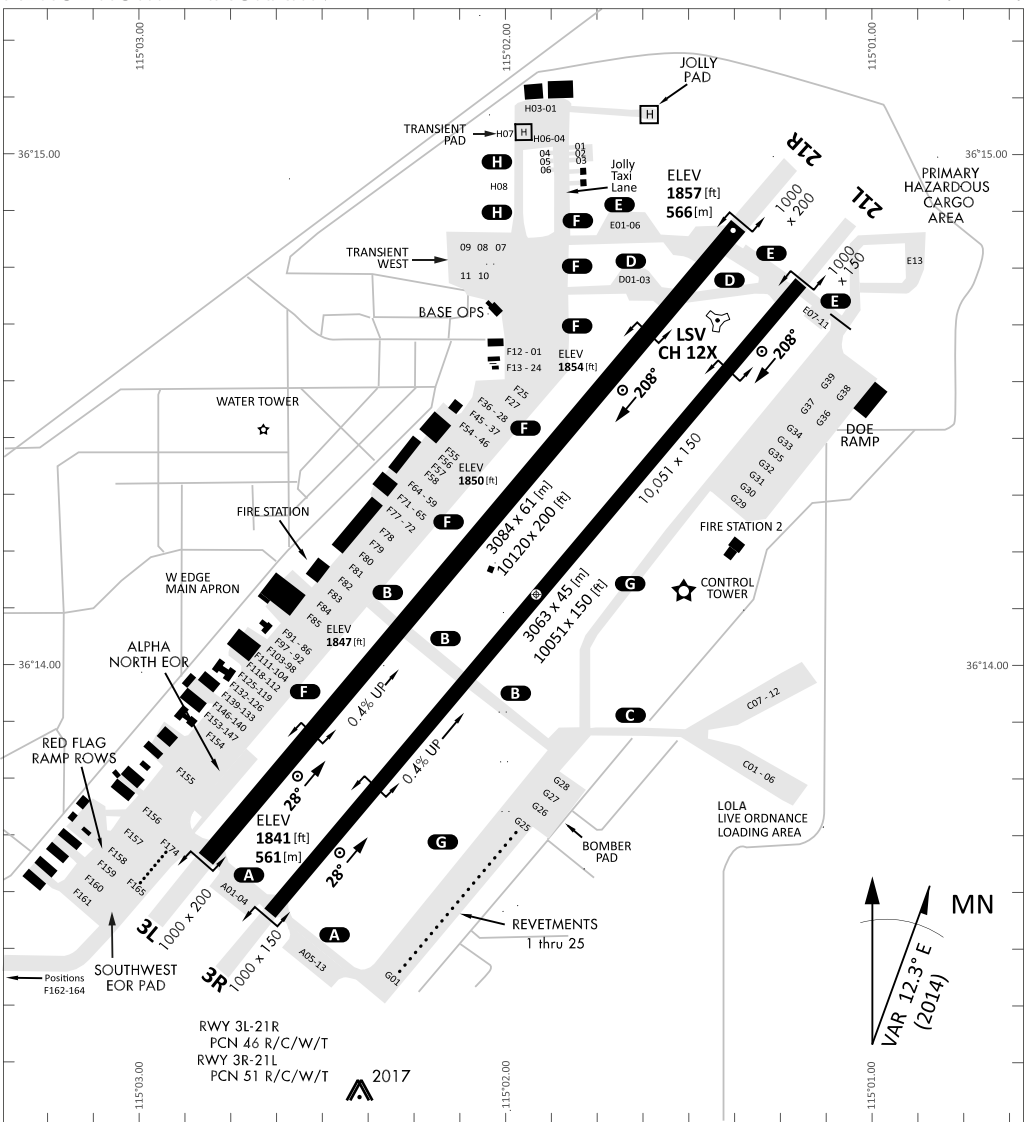
AIRBASES								
	Name	TCN	ATIS	GND	TWR	RWY	Elev	ILS
Dep	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Arr	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Div	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	Grpld	Laser
Raptor 1	Training	4x F-16C	134.0	21/84		156X
	AO	Air Start A2A Range	Task	BFM - Snapshot		
Vanguard	Training	1x AV-8B N/A	264.55	21/84		156X
	AO	R-61B	Task	Bombing		
Jedi* 6	Training	4x AH-64D	133.15	21/84		147X
	AO		Task	Buddy Lase		
T-Rex 2	Training	3x A-10C	132.25	27/90	25	165X
	AO		Task	AAR		
Monster 4	Training	2x A-10C	132.15	27/90	22	165X
	AO		Task	AAR		

RADIO CHANNELS		
#	Freq	Name
1		Flight/Squadron specific
2	289.4	Nellis Clearance Delivery
3	275.8	Nellis Ground
4	327.0	Nellis Tower
5	385.4	Nellis Approach/Departure West
6	273.55	Nellis Approach/Departure East
7	317.525	Nellis Control -- Sally
8	254.4	Nellis Control-- Lee
9	305.6	SOF Bullseye
10	343.725	EMERGENCY SINGLE FRQ
11	270.1	Nellis ATIS
12	360.625	Creech AFB Tower
13	250.1	HAVE QUICK 13
14	251.1	HAVE QUICK 14
15	252.1	HAVE QUICK 15
16	377.8	Blackjack
17	265.0	KC-135 AR-641A
18	360.8	KC-135MPRS AR-635
19	319.8	KC-135MPRS AR-625
20	300.05	KC-135 AR-231V

RAMROD										
0	1	2	3	4	5	6	7	8	9	
C	O	M	P	U	L	S	I	V	E	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	OYFW	UTN	KIQ	DM	CH	GSP	RV	XL	JE	AB
B	UBGF	QTX	VOY	EW	NR	DSK	LH	AC	JI	PM
C	DMPQ	HVB	KJO	RI	US	TEL	CY	GN	XF	AW
D	CHSQ	UJP	ALY	IR	FM	KVO	GT	EW	XD	BN
E	WCTE	QPS	RDH	VF	MU	OIK	AG	LN	BX	JY
F	AEPB	XMG	JFU	VI	SQ	KRH	WL	YO	ND	TC
G	QOSB	KDJ	RNP	IF	CA	LTG	UE	HX	VM	WY
H	XFHP	BOM	TIJ	YD	AK	QLE	RS	VW	GC	UN
I	QDUI	BOF	MKL	WP	VA	YHT	RJ	NS	CG	EX
J	TOHM	XCA	UFY	WJ	PR	BIG	LE	NV	DQ	SK
K	QPYS	HUT	WNM	AC	VF	LDK	XB	GO	JE	RI
L	MQNA	DEK	BOI	CP	UR	STW	GF	JL	XH	VY
M	MQPE	HTV	KCR	NB	GL	JYW	FU	AX	SO	ID
N	LCDF	VUE	WSG	IP	AY	MNK	HJ	BT	RQ	OX
O	VHYM	NSC	XLA	DJ	PG	TEB	QK	IF	RU	OW
P	RUNS	KYF	WDM	CL	AQ	PXE	JT	BG	IO	VH
Q	PIVO	JWX	UKL	BS	FD	TAE	YQ	GM	CH	NR
R	JFWQ	TVH	KLI	SX	BP	ODE	AC	GU	YN	MR
S	NXKJ	YVF	WHL	TG	RI	BPC	EQ	MA	OU	DS
T	AWKD	ICH	VTL	GU	OF	BPX	YJ	MR	EN	SQ
U	JAQC	UNH	EKT	FL	MY	BXD	VW	SR	PO	IG
V	DSBV	EAJ	GQT	PO	HL	CRY	NM	IF	XW	UK
W	SVUR	NBP	CJD	YH	OM	FQK	IT	LE	WX	GA
X	FGOW	TMC	RNS	BA	KX	PHL	IE	QU	VY	DJ
Y	RYVP	KNI	FEM	JL	TB	QWA	XH	GC	SD	OU

NAVAIDS				
Id	Name	Channel	Position	Elevation
BCE	Bryce Canyon	75	N3741.35 W11218.23	9040
BIH	Bishop	33	N3722.62 W11821.99	4114
BLD	Boulder	114	N3559.75 W11451.82	3650
BTY	Beatty	94	N3648.54 W11644.86	2925
CDC	Cedar City	120	N3747.24 W11304.90	5463
DAG	Daggett	79	N3457.75 W11634.69	1760
EED	Needles	99	N3445.96 W11428.43	650
GFS	Goffs	91	N3507.87 W11510.59	4019
GRL	Groom Lake	18	N3713.91 W11548.16	4475
HEC	Hector	74	N3447.83 W11627.78	1854
ILC	Wilson Creek	110	N3815.02 W11423.65	9318
INS	Creech AFB	87	N3635.20 W11540.12	3101
LAS	McCarran Intl	116	N3604.78 W11509.59	2142
LSV	Nellis	12	N3614.68 W11501.50	1864
MLF	Milford	58	N3821.62 W11300.79	4977
MMM	Mormon Mesa	90	N3646.16 W11416.65	2120
MVA	Mina	98	N3833.92 W11801.97	7860
OAL	Coale Dale	124	N3800.20 W11746.23	4800
PGS	Peach Springs	57	N3537.48 W11332.67	4754
TPH	Tonopah Muni	119	N3801.84 W11702.01	5330
TQQ	Silverbow	77	N3748.00 W11647.00	5500
UTI	St George	23	N3705.29 W11335.53	2871



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3"	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3"	115° 01.058° W	566 [m]	0 1000 2000 3000 4000 5000 [ft]
SRA	RWY	CAT	MINIMA	ARP	ELEV	Scale
	21R	A C D E	2257 - 1.2 350 (350-1.2/1.6)	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]
	3L	A C D E	2257 - 1.2 350 (350-1.2/1.6)	115° 01.058° W	566 [m]	0 1000 2000 3000 4000 5000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
21L	10051 [ft] 3063 [m]	11051 [ft] 3368 [m]	11051 [ft] 3368 [m]	10051 [ft] 3063 [m]	36°14.043°N 115°01.018°W	⊕
3R	10120 [ft] 3084 [m]	11120 [ft] 3398 [m]	11120 [ft] 3398 [m]	10120 [ft] 3084 [m]	36°13.029°N 115°02.038°W	

ATIS	NELLIS GROUND	NELLIS TOWER	NELLIS CONTROL	TACAN	ILS RWY 21L	NELLIS EAST	NELLIS WEST
270.100 MHz	275.800 121.800	327.000 132.55	317.525	LSV 12X	109.10 Mhz	384.400	385.000

ATIS
270.100
NELLIS GROUND
275.800
NELLIS TOWER
327.000
NELLIS CONTROL
317.525
NELLIS DEP/APP EAST
384.400
BLACKJACK
377.800

DREAM
N3710.34
W11459.53

MINTT
LAS 351/38
17,000

Rwy	Knots	60	120	180	240	300	360
* 3 L (a)	V/Vl(fpm)	269	538	807	1076	1345	1614
* 3 R (b)	V/Vl(fpm)	245	490	735	980	1225	1470
† 3 L (c)	V/Vl(fpm)	498	996	1494	1992	2490	2988
† 3 R (c)	V/Vl(fpm)	496	992	1488	1984	2480	2976
* 21 L (d)	V/Vl(fpm)	389	778	1167	1556	1945	2334
* 21 R (d)	V/Vl(fpm)	395	790	1185	1580	1975	2370
† 21 L (c)	V/Vl(fpm)	453	906	1359	1812	2265	2718
† 21 R (c)	V/Vl(fpm)	457	914	1371	1828	2285	2742

* Minimum † ATC Climb Rate

- (a) to 3600
- (b) to 3100
- (c) to 17,000
- (d) to 8500

** Lead DME:
ATALF - LSV 9.5
HEREM - LSV 8.8

- ① 12.24 NM from Rwy 21R
- ② 12.40 NM from Rwy 21L
- ③ 5.67 NM from Rwy 3L
- ④ 5.85 NM from Rwy 3R

NOT FOR CIVIL USE

CAUTION: If unable to comply with restrictions advise ATC prior to departure.

LAS VEGAS
116.9 LAS
Chan 116

NELLIS
Chan 12 LSV

BOULDER CITY
116.7 BLD
Chan 114

VAR 12.3°E

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L

- Fly runway heading to intercept the LSV TACAN R-028 then direct ATALF, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 3R

- Fly runway heading to intercept the LSV TACAN R-031 then direct HEREM, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 21L/R

- Turn right to intercept LAS VORTAC R-351 outbound. Remain North of LAS 7.5 DME turning Northbound. Intercept LAS R-351 between 5000 and 6000, do not proceed West of LAS R-351. Cross MINTT at or above 17,000, then via assigned route.

NOISE ABATMENT PROCEDURES: Fly acc. Nellis Noise Abatement instructions

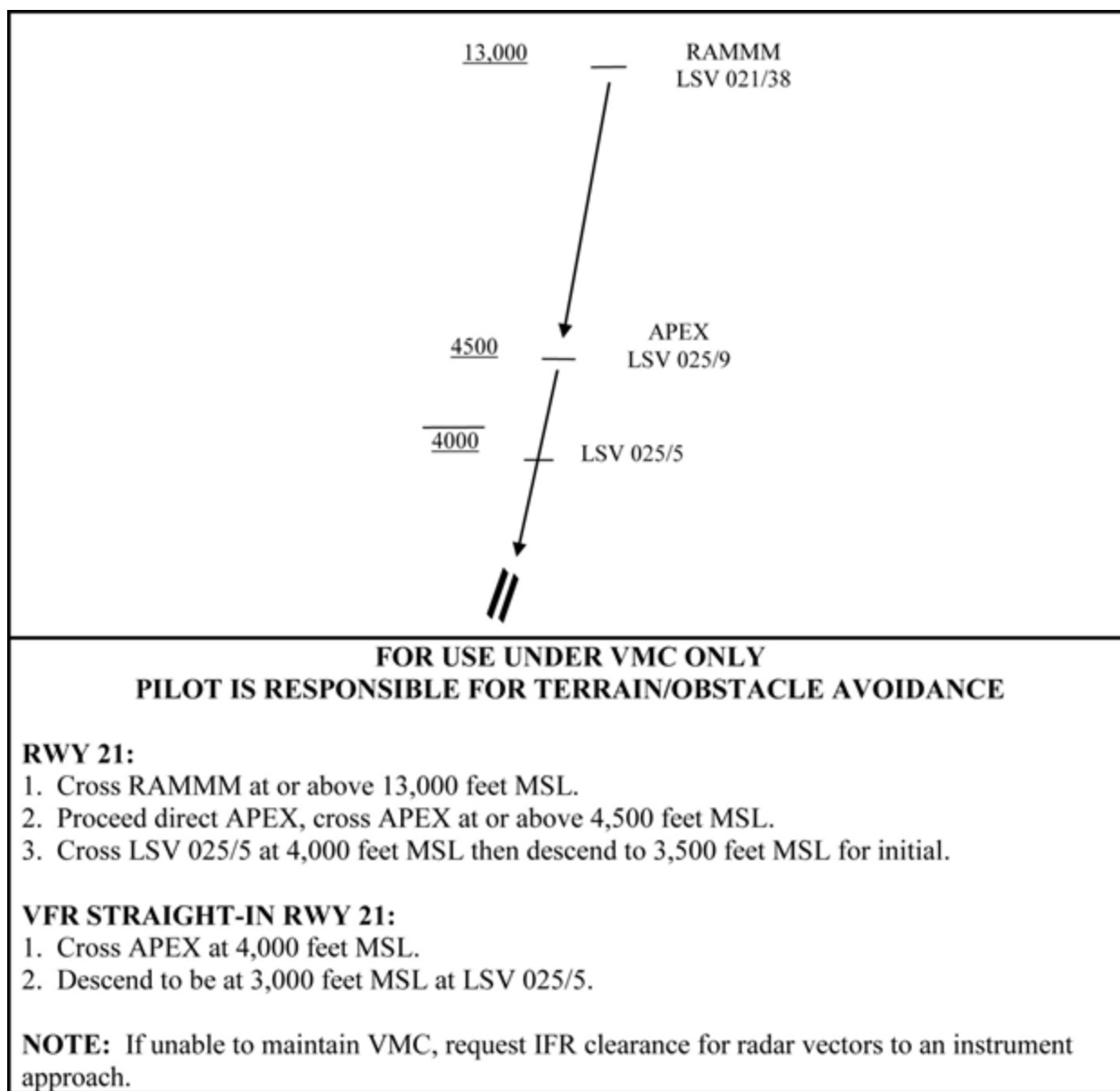
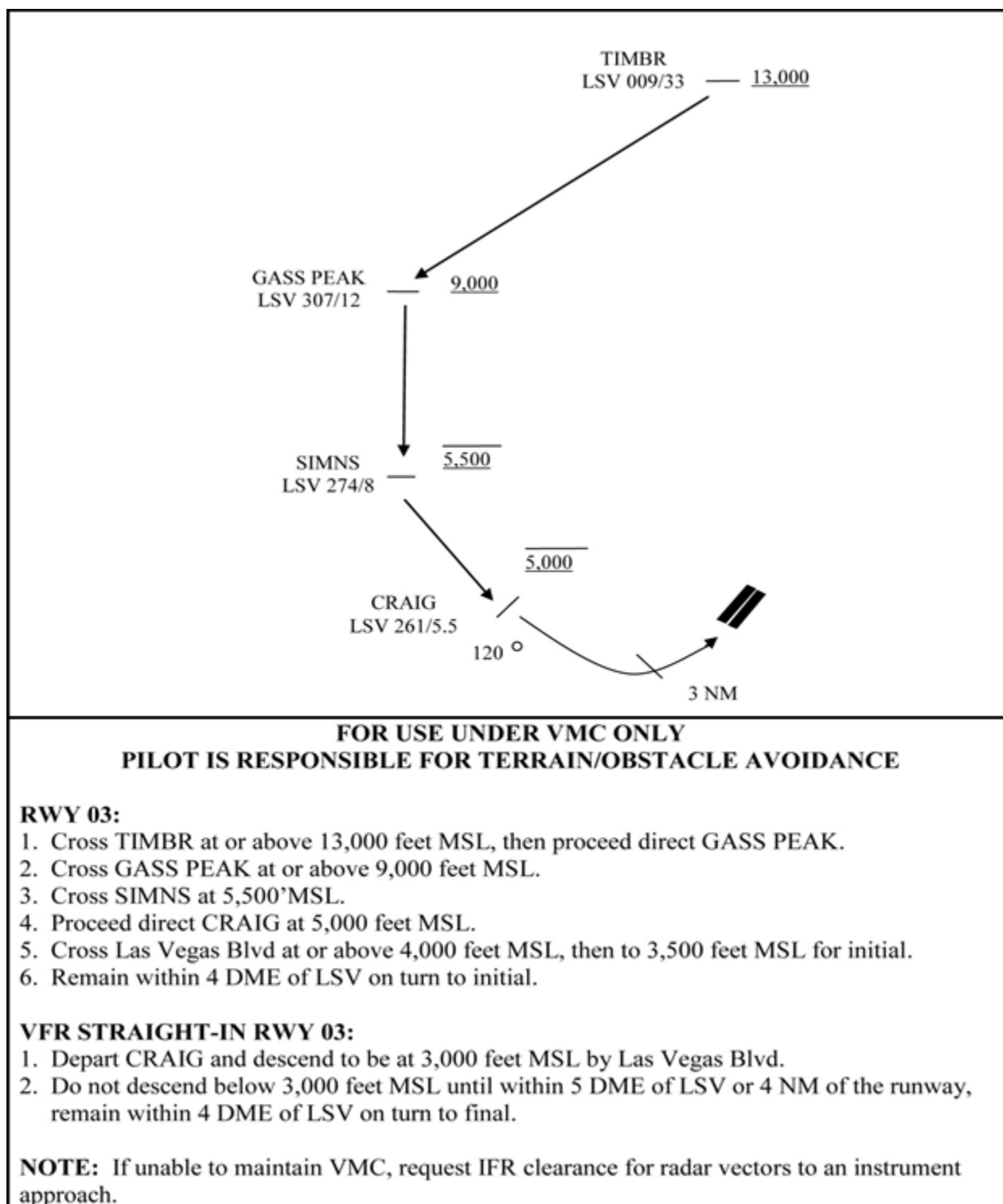
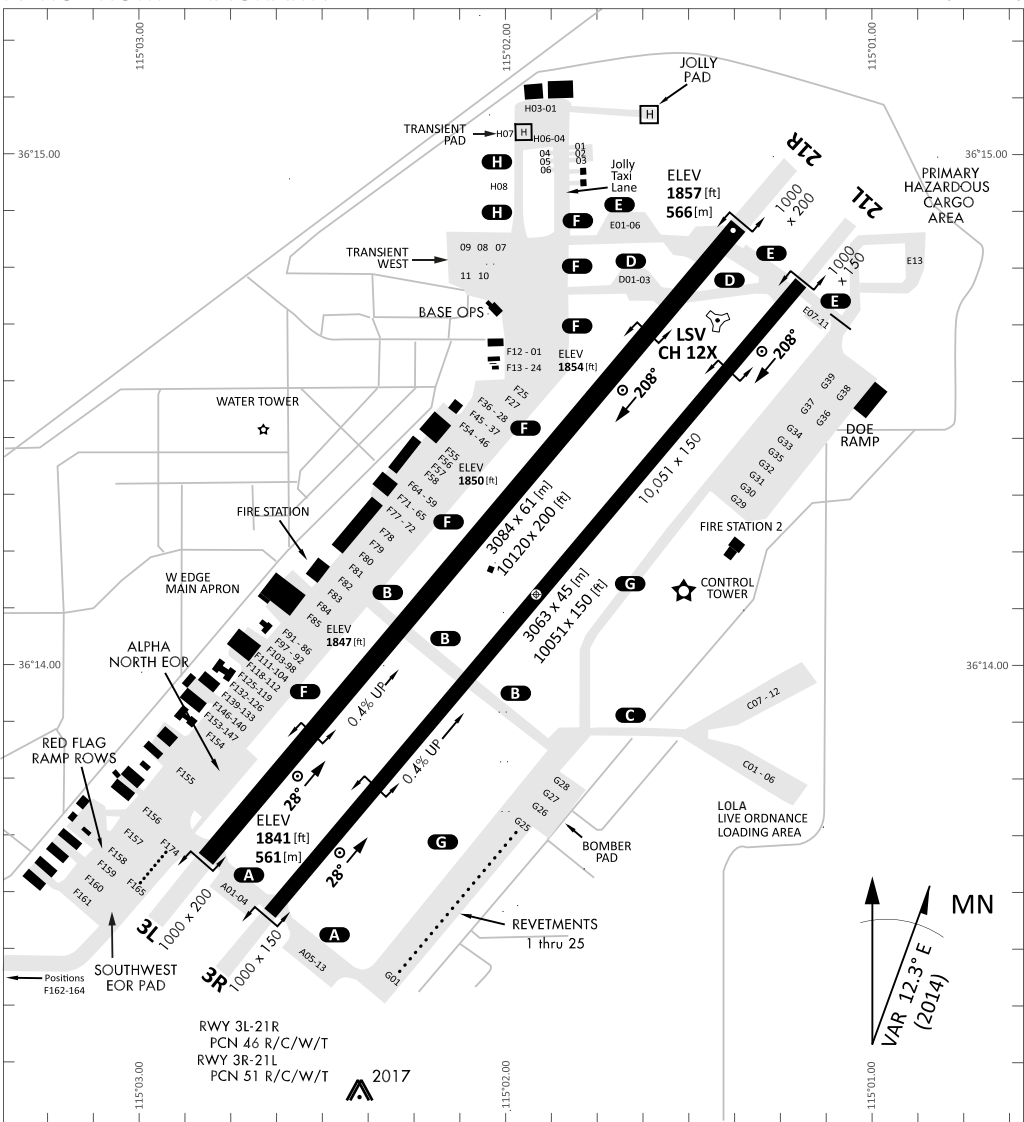
Figure A23.5. RAMMM Recovery (Not For Use In IMC).

Figure A23.4. TIMBR Recovery (Not For Use In IMC).





PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:35'500
SRA	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]
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