

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

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>AIRPORT ID</u> KLAS	<u>PROCEDURE NAME</u> ILS OR LOC RWY 1L	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> LAS VEGAS	<u>STATE</u> NV		
<u>AIRPORT ELEVATION</u> 2181	<u>TDZE</u> 2176	<u>SUPERSEDED</u> ILS OR LOC RWY 1L	<u>ORIGINAL/AMENDMENT</u> 3	<u>DATED</u> 02/25/2021	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-CUA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
WOPMA/36.45 DME		CEDAX/I-CUA 30.72 DME					013.91	5.73 (I-CUA)	11000
CEDAX/I-CUA 30.72 DME		SHANQ/I-CUA 26.22 DME					013.91	4.50 (I-CUA)	9700
SHANQ/I-CUA 26.22 DME		KRUDY/I-CUA 19.83 DME					013.91	6.39 (I-CUA)	8000
ROAMN	IAF	TRREY/I-CUA 16.03 DME		TF	FB	1.00	030.34	3.30	7000
KRUDY/I-CUA 19.83 DME	IAF	TRREY/I-CUA 16.03 DME					013.91	3.79 (I-CUA)	7000
TRREY/I-CUA 16.03 DME	IF	CODNO/I-CUA 13.18 DME					013.91	2.85 (I-CUA)	6300
CODNO/I-CUA 13.18 DME		NODIY/I-CUA 10.03 DME					013.91	3.15 (I-CUA)	5300

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: I-CUA 1.54 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 7000 DIRECT BLD VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF)

2. PROFILE STARTS AT TRREY

3. FAF: 013.91                      FAF: NODIY/I-CUA 10.03 DME                      DIST FAF TO MAP:                      DIST FAF TO THLD: 8.49

4. MIN ALT:    TRREY/I-CUA 16.03 DME 7000, CODNO/I-CUA 13.18 DME 6300, NODIY/I-CUA 10.03 DME 5300, SOSOY/I-CUA 7.34 DME 4300, ZABES/I-CUA 4.77 DME 3400

5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      GS ANT: 1296

6. MIN GS INCPT: 5300                      GS ALT AT PFAF : NODIY/I-CUA 10.03 DME 5300                      OM:                      MM:                      IM:

7. GP ANGLE: 3.40                      34:1:                      20:1:                      TCH: 59.3

8. MSA FROM:    LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.  
RNP APCH-GPS. FROM ROAMN.

NOTES:

CHART NOTE: RWY 1L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOPMA ON V21-283-587 SOUTHWEST BOUND.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 1L ALL CATS VISIBILITY TO 7/8 SM.  
CHART SPEED ICON IN PLANVIEW AT ROAMN: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT TRREY: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 8000 AT ROAMN.  
2600 AAO 360127N/1151240W.  
HOLD SE, RT, 330.00 INBOUND.  
CHART FAS OBST: 2465 BUILDING (32-067735) 360222N/1151110W.  
CHART VDP AT 2.87 DME  
DISTANCE VDP TO THLD 1.33 NM.  
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA    ☐    ILS: STANDARD; LOC: CAT A, B 900-2, CAT C 1000-2 3/4, CAT D 1400-3

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
S-ILS 1L	2460	3/4	284	2460	3/4	284	2460	3/4	284	2460	3/4	284			
S-LOC 1L	2720	3/4	544	2720	3/4	544	2720	1 3/8	544	2720	1 3/8	544			
CIRCLING	3020	1 1/4	839	3060	1 1/4	879	3100	2 3/4	919	3540	3	1359			



**CHANGES - REASONS**

1. ADD 210 SPEED RESTRICTION AT TRREY - ATC REQUEST PER FPT.
2. CHANGE ALTITUDE RESTRICTION AT ROAMN FROM MINIMUM 8000 TO MANDATORY 8000 - ATC REQUEST PER FPT.
3. ADDED CHART PLANVIEW NOTE AT TRREY "MAX 210 KIAS" - SPEED RESTRICTION ADDED.
4. REMOVED ALL OCCURRENCES OF "" REFERENCING "LOC ONLY" FROM PROFILE DATA AND ADDITIONAL FLIGHT DATA -- IAW 8260.19I 8-6-10M.
5. PROFILE LINE 5 DIST TO THLD FROM GS ANT CHANGED FROM 1297 TO 1296 -- UPDATED AIRNAV DATA.
6. ADDED ADDITIONAL FLIGHT DATA NOTE "2600 AAO 360127N/1151240W" FOR 7:1 EXCLUDED AAO -- NEW MANUAL TERRAIN EVALUATION.
7. CHANGED EQUIPMENT REQUIREMENTS NOTE "FROM ROAMN: RNP APCH-GPS REQUIRED" TO "RNP APCH -- GPS. FROM ROAMN" -- IAW 8260.19I 8-6-8C2.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLA, LAS TRACON, LAS ACTC, NV AERO, AMGR

**FLIGHT CHECKED BY**

GARY J VEER

*Digitally signed by***CASIMIR L TABAKA**

Mar 17, 2022

**OFFICE**

FPO

**DATE**

03/08/2022

**DEVELOPED BY**

JON DENTON (KARLIE BUNTIN)

*Digitally signed by***CASIMIR L TABAKA**

Mar 17, 2022

**OFFICE**

AJV-A432

**DATE**

11/01/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by***CASIMIR L TABAKA**

Mar 17, 2022

**OFFICE**

AJV-A430

**DATE**

03/24/2022

**TITLE**

MANAGER

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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
KLAS	ILS OR LOC RWY 1L	4	LAS VEGAS	NV	2181	I-CUA

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM WOPMA/36.45 DME TO CEDAX/I-CUA 30.72 DME

<u>RNP</u>	<u>DISTANCE</u> 5.73	<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	353445.00N/1153345.00W	6552	164	98	4E	2000				AT3173 SA-725	11000
												2.TERRAIN	353651.00N/1153106.00W	5518 (5500)								AS1500	7000

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER: STEPDOWN

FROM CEDAX/I-CUA 30.72 DME TO SHANQ/I-CUA 26.22 DME

<u>RNP</u>	<u>DISTANCE</u> 4.50	<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	354157.00N/1152715.00W	6546	164	98	4E	2000				AT1154	9700
												4.TERRAIN	354157.00N/1152715.00W	6345 (6300)								AS1500	7800

COMPUTATIONS

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

SEGMENT REMARKS:



FEEDER: STEPDOWN

FROM  
SHANQ/I-CUA 26.22 DME

TO  
KRUDY/I-CUA 19.83 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.39											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	354251.00N/1152654.00W		5374	164	98	4E	2000				AT626	8000
6.TERRAIN	354451.00N/1152630.00W		4793 (4800)								AS1500	6300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM  
ROAMN

TO  
TRREY/I-CUA 16.03 DME

RNP	DISTANCE 3.30	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	355236.00N/1151930.00W		4886	164	98	4E	1000				PR170 AT944	7000
8.TERRAIN	355124.00N/1152100.00W		4632 (4600)								AS1500	6100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM  
KRUDY/I-CUA 19.83 DME

TO  
TRREY/I-CUA 16.03 DME

RNP	DISTANCE 3.79	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	355224.00N/1152203.00W		5702	164	98	4E	1000				PR180	6900
10.TERRAIN	355224.00N/1152203.00W		5501 (5500)								AS1500	7000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM  
TRREY/I-CUA 16.03 DME

TO  
CODNO/I-CUA 13.18 DME

RNP	DISTANCE 2.85	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.AAO	355332.37N/1152323.44W		5900	50	20	2C	500				SA-272 PR140	6300
12.TERRAIN	355503.00N/1151927.00W		4868 (4900)								AS1000	5900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM  
CODNO/I-CUA 13.18 DME

TO  
NODIY/I-CUA 10.03 DME

RNP	DISTANCE 3.15	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.AAO	355438.63N/1151906.88W		4750	50	20	2C	500					5300
14.TERRAIN	355536.00N/1151812.00W		4166 (4200)								AS1000	5200

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

FINAL: ILS

FROM  
NODIY/I-CUA 10.03 DME

TO  
RW1L

RNP	DISTANCE 8.49	PAT	MAP DA	HAT 284			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15.POLE (32-077375)	360418.41N/1151025.83W		2247	20	3	1A		30:1				2460

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



FINAL: LOC

FROM  
NODIY/I-CUA 10.03 DME

TO  
SOSOY/I-CUA 7.34 DME

RNP	DISTANCE 2.69	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
16.AAO	355715.41N/1151251.23W		3800	50	20	2C	250				XL125 SA-165 DG280	4300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM  
SOSOY/I-CUA 7.34 DME

TO  
ZABES/I-CUA 4.77 DME

<u>RNP</u>	<u>DISTANCE</u> 2.57	<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>
17.AAO	355906.50N/1151352.45W		3100	50	20	2C	250				DG50	3400

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:





FINAL: LOC STEPDOWN

FROM  
ZABES/I-CUA 4.77 DME

TO  
I-CUA 1.54 DME

<u>RNP</u>	<u>DISTANCE</u> 3.23	<u>PAT</u>	<u>MAP</u> I-CUA 1.54 DME	<u>HAT</u> 544			<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>
18.BUILDING (32-067735)	360221.89N/1151109.63W		2465	20	3	1A	250					2720

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

MISSED APPROACH : ILS

FROM  
DA

TO  
BLD VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 2246				
<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>
							ASC				7000
19.AAO	355651.00N/1145654.00W	4262	164	98	4E	1000				PR170	5500
20.TERRAIN	355651.00N/1145654.00W	4061 (4100)								AS1500	5600

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



MISSED APPROACH : LOC

FROM

I-CUA 1.54 DME

TO

BLD VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 2470					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				7000
19.AAO	355651.00N/1145654.00W		4262	164	98	4E	1000				PR170	5500
20.TERRAIN	355651.00N/1145654.00W		4061 (4100)								AS1500	5600

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
21.BUILDING (32-023698)	360636.83N/1151025.98W	1.33	839	2720	20	10	1B	300			3020
CATEGORY B											
22.ANTENNA (32-077853)	360726.06N/1151003.93W	1.88	879	2743	20	10	1B	300			3060
CATEGORY C											
23.BLDG (32-022332)	360816.22N/1150934.01W	2.97	919	2789	20	10	1B	300			3100
CATEGORY D											
24.MONUMENT (32-000188)	360850.71N/1150919.85W	3.91	1359	3229	20	10	1B	300			3540

CIRCLING REMARKS:



MSA

CENTER

LAS VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
030-120	AAO	355415.00N/1150251.00W	138	11.9	5561	164	98	4E	1000			6700
120-210	AAO	353736.00N/1151045.00W	167	27.2	7376	164	98	4E	1000			8400
210-300	AAO	361619.87N/1154142.07W	279	28.4	12116	50	20	2C	1000			13200
300-030	AAO	363324.00N/1151539.00W	335	29.0	9198	164	98	4E	1000			10200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

USED 1000 FEET AIRSPACE IN INTERMEDIATE STEPDOWN SEGMENT; CODNO FIX PLACEMENT AND ALTITUDE (UTILIZES MAX DG) IS NECESSARY TO APPLY 1000' AIRSPACE / AVOID HIGHER TERRAIN SLIGHTLY TO THE SOUTHWEST.

PER PREVIOUS AMDT AND WITH ATC CONCURRENCE, "THERE IS NOT A VIABLE ALTERNATE MISSED APPROACH DUE TO TERRAIN, OTHER AIRPORTS, AND DUE TO LACK OF NAVAIDS IN THE AREA THAT WOULD PROVIDE A FEASIBLE ROUTE."

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZLA ARTCC, LAS APP CON, LAS TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KLAS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLAS	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 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:  
NO BACKUP ALTIMETER SOURCE DUE TO REDUNDANCY AT FACILITY.

<u>PRIMARY NAVAID</u> I-CUA	<u>MONITOR POINT</u> POCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW1R - MIRL, REIL, PAPI-4L	NPI-G	
RW8L - HIRL, PAPI-4L	NPI-G	
RW8R - HIRL, REIL, PAPI-4L	NPI-G	
RW19L - MIRL, REIL, PAPI-4L	NPI-G	
RW19R - HIRL, REIL, PAPI-4L	NPI-G	
RW1L - MALSF, HIRL, PAPI-4L	PIR-G	
RW26L - MALSF, HIRL, PAPI-4L	PIR-G	
RW26R - MALS, HIRL, PAPI-4L	PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.40	<u>ELEV RWY THRESHOLD</u> 2176.1	<u>TCH</u> 59.3	<u>ELEV GS ANTENNA</u> 2158.4	<u>DISTANCE FROM RWY</u> 1296	<u>VGSI ANGLE</u> 3.40	<u>TCH</u> 62.6
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	587
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KLAS	ILS OR LOC RWY 1L	4	LAS VEGAS	NV	2181	I-CUA

"VISUAL PORTION OF FINAL" PENETRATIONS	
Final Type	ILS/LOC
34:1	
2288 BUILDING (32-045059) 360407.90N/1151035.27W (15.41)	2274 POLE (32-041944) 360411.24N/1151032.59W (13.15)
2236 POLE (32-022291) 360420.99N/1151021.09W (13.15)	2240 SIGN (32-038340) 360420.12N/1151023.37W (12.48)
2247 POLE (32-077375) 360418.41N/1151025.83W (12.37)	2280 BUILDING (32-052414) 360407.45N/1151030.41W (11.14)
2287 BUILDING (32-043276) 360406.61N/1151035.12W (11.09)	2279 BUILDING (32-065890) 360407.75N/1151030.41W (10.95)
2279 BUILDING (32-066007) 360407.74N/1151030.82W (10.51)	2281 BUILDING (32-052239) 360406.84N/1151030.40W (10.51)
2234 SIGN (32-075861) 360420.97N/1151021.70W (10.47)	2282 BUILDING (32-038409) 360406.55N/1151030.76W (10.36)
2281 BUILDING (32-052409) 360406.67N/1151030.41W (10.04)	2279 BUILDING (32-038450) 360407.73N/1151031.73W (9.56)
2281 BUILDING (32-038408) 360406.55N/1151030.56W (9.56)	2238 POLE (32-000169) 360417.00N/1151016.00W (9.56)
2232 SIGN (32-075248) 360421.00N/1151021.12W (9.14)	2237 SIGN (32-076411) 360420.02N/1151023.71W (8.86)
2279 BUILDING (32-042055) 360407.47N/1151031.73W (8.85)	2257 ANTENNA (32-076292) 360412.88N/1151025.40W (7.89)
2277 BUILDING (32-052415) 360408.55N/1151034.06W (7.4)	2279 BUILDING (32-045062) 360406.48N/1151031.71W (6.2)
2279 BUILDING (32-052794) 360406.40N/1151032.11W (5.58)	2273 POLE (32-076699) 360409.01N/1151033.37W (5.34)
2254 BUILDING (32-024454) 360412.84N/1151025.03W (5.15)	2279 BUILDING (32-041807) 360406.55N/1151033.55W (4.52)
2277 BUILDING (32-039338) 360407.47N/1151034.06W (4.48)	2256 SIGN (32-024742) 360412.15N/1151025.88W (4.43)
2226 LIGHTING (32-075552) 360421.48N/1151021.28W (4.27)	2227 TRAVERSE WAY (32-052470) 360420.29N/1151020.53W (2.83)
2227 TRAVERSE WAY (32-048510) 360421.33N/1151023.31W (2.81)	2273 POLE (32-074998) 360407.75N/1151032.60W (2.72)
2225 POLE (32-050895) 360421.42N/1151021.80W (2.58)	2247 TREE (32-038415) 360413.28N/1151021.88W (2.55)
2242 POLE (32-043200) 360416.54N/1151025.78W (2.37)	2210 TRAVERSE WAY (32-078020) 360426.40N/1151020.75W (2.09)
2210 TRAVERSE WAY (32-076284) 360426.30N/1151020.52W (2.05)	2227 LIGHTING (32-075934) 360419.97N/1151020.56W (1.93)
2227 SIGN (32-043317) 360419.96N/1151020.59W (1.88)	2226 TRAVERSE WAY (32-049461) 360420.03N/1151019.85W (1.82)
2226 TRAVERSE WAY (32-076222) 360421.48N/1151023.69W (1.82)	2226 TRAVERSE WAY (32-052737) 360419.18N/1151017.60W (1.81)
2226 TRAVERSE WAY (32-065629) 360420.54N/1151021.21W (1.81)	2226 TRAVERSE WAY (32-065493) 360419.66N/1151018.88W (1.81)
2226 TRAVERSE WAY (32-045535) 360421.00N/1151022.44W (1.8)	2226 TRAVERSE WAY (32-052738) 360418.85N/1151016.74W (1.8)
2235 POLE (32-065628) 360416.56N/1151019.86W (1.45)	2282 BUILDING (32-065772) 360404.10N/1151033.19W (1.28)
2212 TRAVERSE WAY (32-074367) 360425.60N/1151021.57W (1.09)	2268 BUILDING (32-050781) 360408.25N/1151030.65W (1.06)
2224 POLE (32-039398) 360420.94N/1151021.16W (0.94)	2242 POLE (32-020414) 360413.70N/1151019.73W (0.87)

QUALITY  
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2225 TRAVERSE WAY (32-077336) 360419.35N/1151018.04W (0.83)	2182 TRAVERSE WAY (32-075323) 360433.87N/1151014.29W (0.81)
2225 TRAVERSE WAY (32-076237) 360419.61N/1151018.75W (0.8)	2225 TRAVERSE WAY (32-077701) 360418.95N/1151017.00W (0.8)
2180 TRAVERSE WAY (32-074548) 360433.97N/1151012.79W (0.6)	2245 POLE (32-049710) 360413.15N/1151021.51W (0.57)
2210 TRAVERSE WAY (32-076972) 360425.71N/1151020.51W (0.47)	2211 TRAVERSE WAY (32-077555) 360425.34N/1151020.72W (0.26)
2213 TRAVERSE WAY (32-052937) 360424.56N/1151020.67W (0.2)	2180 TRAVERSE WAY (32-075289) 360433.96N/1151013.19W (0.17)
2225 SIGN (32-052471) 360419.91N/1151020.19W (0.15)	2212 TRAVERSE WAY (32-076711) 360424.97N/1151020.93W (0.04)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
VEGETATION 45' PER IFP CHECKLIST

TARGETS IDENTIFIED 20:1 OBSTACLE: 2180 TRAVERSE WAY (32-076561) 360434.95N/1151012.94W (2.53). THIS LOCATION IS ON THE AIRPORT ON THE DISPLACED THRESH HOLD LINE FOR RWY 7L APPROACH. SINCE IT IS AIRPORT CONTROLLED, DID NOT CONSIDER THIS A 20:1 PENETRATION.

WAIVER SUMMARY:  
FAAO ORDER 8260.58A, PARAGRAPH 1-3-1.C. THE LEG LENGTH FROM ROAMN TO TRREY IS NOT LONG ENOUGH TO SUPPORT ATC VECTORS.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2600 AAO 360127N/1151240W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<b>AIRPORT ID</b> KLAS	<b>PROCEDURE NAME</b> ILS OR LOC RWY 1L	<b>AMDT NO.</b> 4	<b>CITY</b> LAS VEGAS	<b>STATE</b> NV	<b>AIRPORT ELEVATION</b> 2181	<b>FACILITY</b> I-CUA
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PART D: AIRSPACE

DOCKET #

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	6.48
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.62
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	024.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3400
DISTANCE FROM	FAF	TO 1500FT POINT	4.90
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	5.49
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	024.91
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	4900

THRESHOLD  
COORDINATES  
(IF STR-IN)

360436.44N/1151010.30W

ARP COORDINATES

360448.16N/1150908.05W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 26R DISTANCE 1.53 NM

FAF  
COORDINATES

355653.81N/1151434.55W

FIX NAME  
COORDINATES

IF TRREY: 355126.54N/1151740.79W

REMARKS

THLD DISPLACED 587FT, ACTUAL COORDINATES: 360431.17N/1151013.31W.

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24  
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PART E: PREPARED BY

<u>NAME</u> JON DENTON (KARLIE BUNTIN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 11/01/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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