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General Information

Location: WATERLOO IA USA
ICAO/IATA: KALO / ALO
Lat/Long: N42° 33.51', W092° 24.06'
Elevation: 873 ft

Airport Use: Public
Daylight Savings: Observed
UTC Conversion: +6:00 = UTC
Magnetic Variation: 0.0° E
Sectional Chart: Chicago

Fuel Types: 100 Octane (LL), Jet A
Oxygen Types: High Pressure, Low Pressure, HP Bottle, LP Bottle
Repair Types: Major Airframe, Major Engine
Customs: No
Airport Type: IFR
Landing Fee: No
Control Tower: Yes
Jet Start Unit: Yes
LLWS Alert: No
Beacon: Yes

Sunrise: 1120 Z
Sunset: 0106 Z

Runway Information

Runway: 12
Length x Width: 8399 ft x 150 ft
Surface Type: asphalt
TDZ-Elev: 873 ft
Lighting: Edge, ALS, Pilot controlled

Runway: 18
Length x Width: 6003 ft x 150 ft
Surface Type: asphalt
TDZ-Elev: 871 ft
Lighting: Edge, REIL, Pilot controlled

Runway: 30
Length x Width: 8399 ft x 150 ft
Surface Type: asphalt
TDZ-Elev: 868 ft
Lighting: Edge, ALS, Pilot controlled

Runway: 36
Length x Width: 6003 ft x 150 ft
Surface Type: asphalt

TDZ-Elev: 869 ft
Lighting: Edge, REIL, Pilot controlled

Communication Information

ATIS: 120.650
ASOS: 120.650
Waterloo Tower: 125.075 CTAF PCL
Waterloo Ground: 121.900
Waterloo Approach: 126.750 Secondary
Waterloo Approach: 118.900
Waterloo Departure: 118.900
Waterloo Departure: 126.750 Secondary
Waterloo Regl UNICOM: 122.950 Air-Ground
Chicago Artcc ACC: 118.900 Secondary
Army Guard Operations: 142.600 Military
Ft Dodge FSS: 122.050 RCO

KALO/ALO

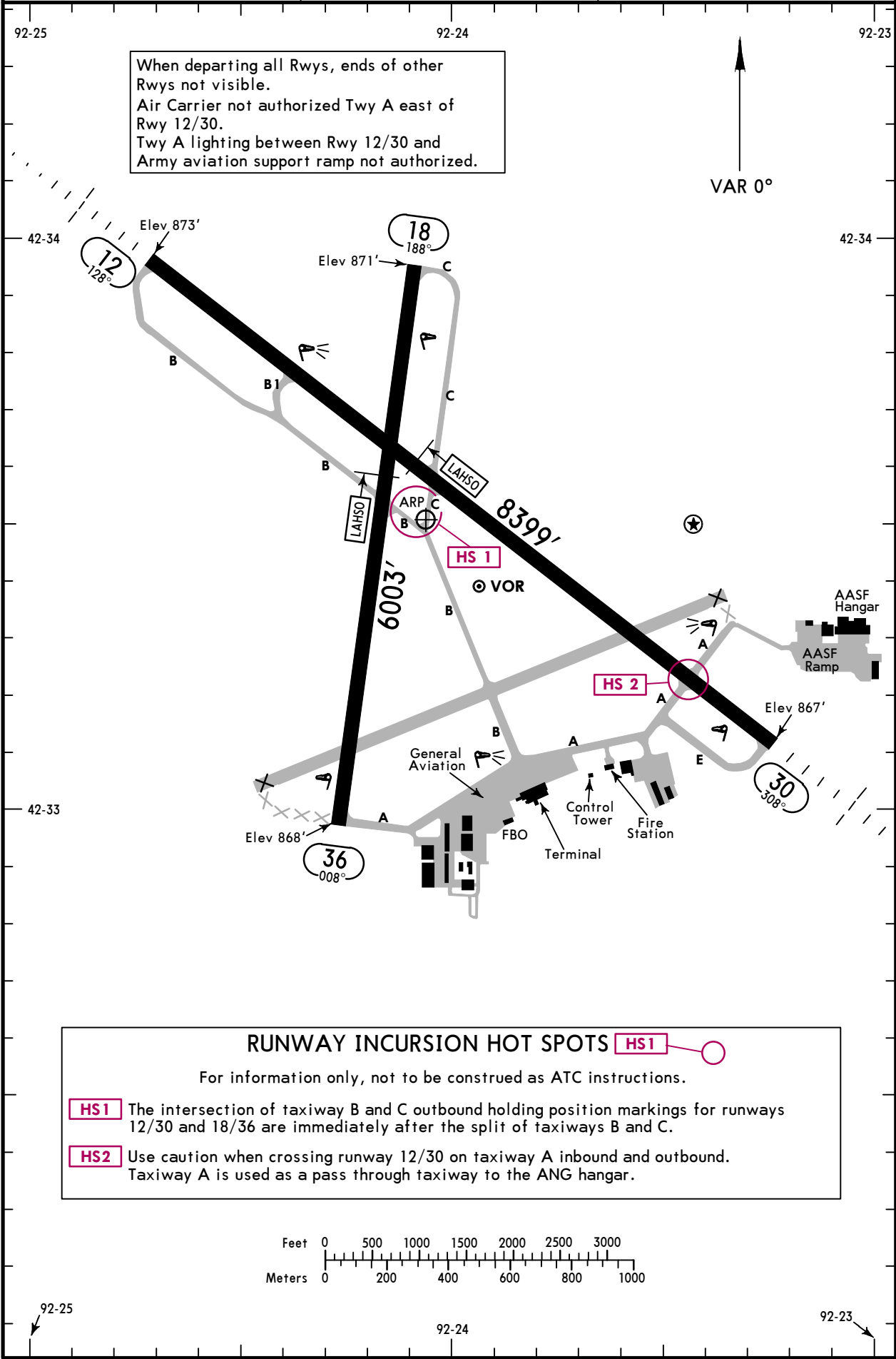
Apt Elev **873'**
N42 33.5 W092 24.1

JEPPESSEN
26 SEP 25 **(10-9)** **Eff 2 Oct**

WATERLOO, IOWA

WATERLOO REGL

ATIS (ASOS when Twr Inop)	*WATERLOO Clearance	*Ground	*Tower
120.65	121.9	121.9	CTAF 125.075
UNICOM 122.95	*DES MOINES Departure (R)	MINNEAPOLIS Center (R)	
	118.9	118.9 when Dep inop.	



KALO/ALO


JEPPESSEN
16 APR 21 (10-9A1) Eff 22 Apr

WATERLOO, IOWA
WATERLOO REGL

ODP TAKEOFF OBSTACLE NOTES

◦ RWY 18:

Navigational aid 40' from DER, 150' left of centerline, 4' AGL/870' MSL.
 Navigational aid 40' from DER, 149' right of centerline, 4' AGL/870' MSL.
 Vehicle on road beginning 465' from DER, 500' right of centerline, up to 883' MSL.
 Trees beginning 2383' from DER, 802' right of centerline, up to 940' MSL. Tree 2539' from DER, 802' left of centerline, 948' MSL. Tree 2852' from DER, 1262' right of centerline, 941' MSL.

◦ RWY 30:

Sign 15' from DER, 275' left of centerline, 3' AGL/875' MSL. Trees beginning 554' from DER, 603' right of centerline, up to 891' MSL. Tree 1904' from DER, 637' right of centerline, 925' MSL. Tree 2112' from DER, 883' right of centerline, 929' MSL. Tree 2163' from DER, 936' right of centerline, 931' MSL. Tree 2213' from DER, 1004' right of centerline, 940' MSL. Tree 4202' from DER, 1342' right of centerline, 978' MSL. Trees beginning 4337' from DER, 1541' right of centerline, up to 995' MSL.

◦ RWY 36:

Terrain, navigational aid beginning 20' from DER, 150' left of centerline, up to 875' MSL. Navigational aid 28' from DER, 148' right of centerline, 4' AGL/872' MSL. Tree 909' from DER, 605' right of centerline, 932' MSL. Tree 1093' from DER, 752' right of centerline, 945' MSL. Trees beginning 1131' from DER, 542' right of centerline, up to 950' MSL. Tree 1243' from DER, 543' right of centerline, 957' MSL. Tree, pole beginning 1463' from DER, 9' right of centerline, up to 960' MSL. Tree 1744' from DER, 122' left of centerline, 926' MSL. Trees beginning 1781' from DER, 10' left of centerline, up to 935' MSL. Trees beginning 2191' from DER, 9' left of centerline, up to 959' MSL. Tree, pole beginning 2217' from DER, 4' right of centerline, up to 976' MSL. Trees beginning 2614' from DER, 1' right of centerline, up to 980' MSL. Trees beginning 2734' from DER, 6' right of centerline, up to 983' MSL. Trees beginning 4421' from DER, 460' right of centerline, up to 984' MSL. Trees beginning 4452' from DER, 418' right of centerline, up to 987' MSL. Tree 4480' from DER, 480' right of centerline, 988' MSL. Tree 4484' from DER, 457' right of centerline, 993' MSL. Tree 4485' from DER, 502' right of centerline, 995' MSL. Trees beginning 4525' from DER, 441' right of centerline, up to 996' MSL. Trees beginning 4564' from DER, 402' right of centerline, up to 1003' MSL. Trees beginning 4598' from DER, 378' right of centerline, up to 1006' MSL. Trees beginning 4670' from DER, 383' right of centerline, up to 1007' MSL. Trees beginning 4764' from DER, 384' right of centerline, up to 1010' MSL. Trees beginning 4793' from DER, 357' right of centerline, up to 1011' MSL. Trees beginning 4840' from DER, 400' right of centerline, up to 1013' MSL. Trees beginning 4846' from DER, 26' right of centerline, up to 1016' MSL. Tree 5110' from DER, 27' left of centerline, 1009' MSL. Tree 5180' from DER, 6' left of centerline, 1010' MSL. Tree 5426' from DER, 721' right of centerline, 1028' MSL.

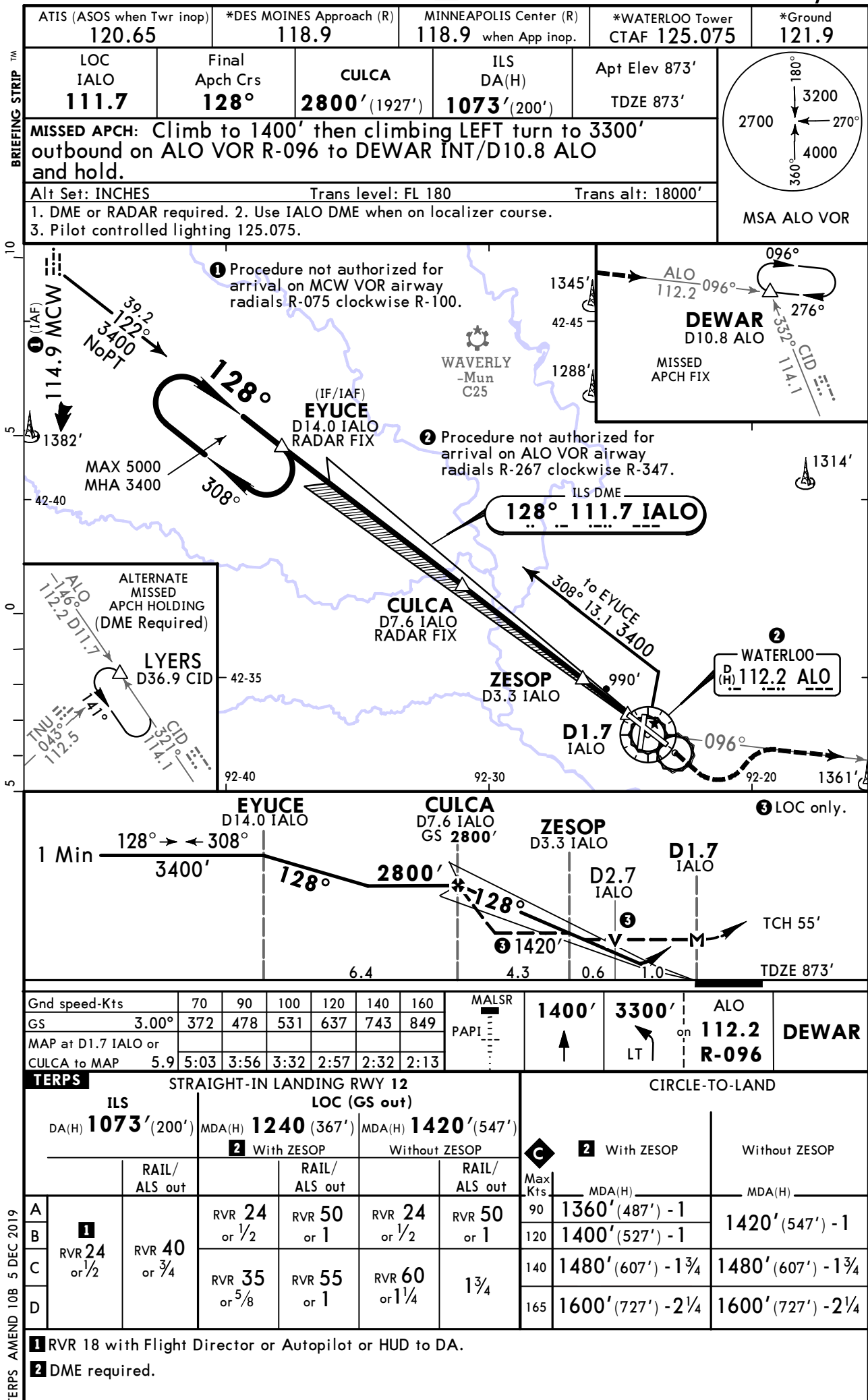
KALO/ALO

WATERLOO REGL

26 SEP 25 **(11-1) Eff 2 Oct**

WATERLOO, IOWA

ILS or LOC Rwy 12



KALO/ALO
WATERLOO REGL

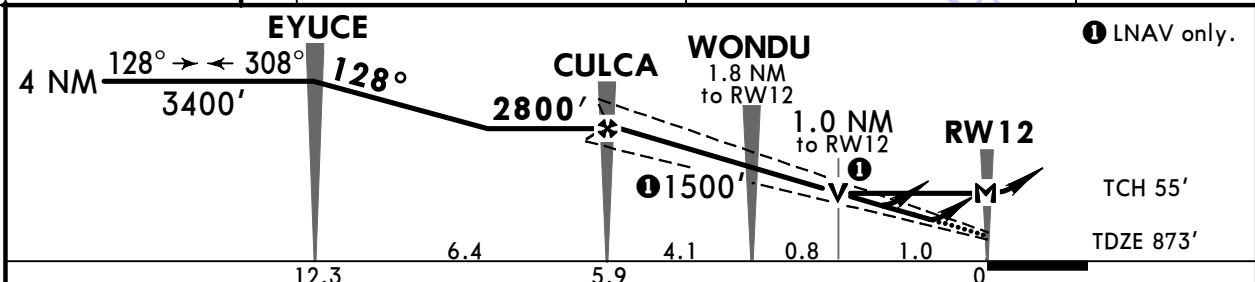
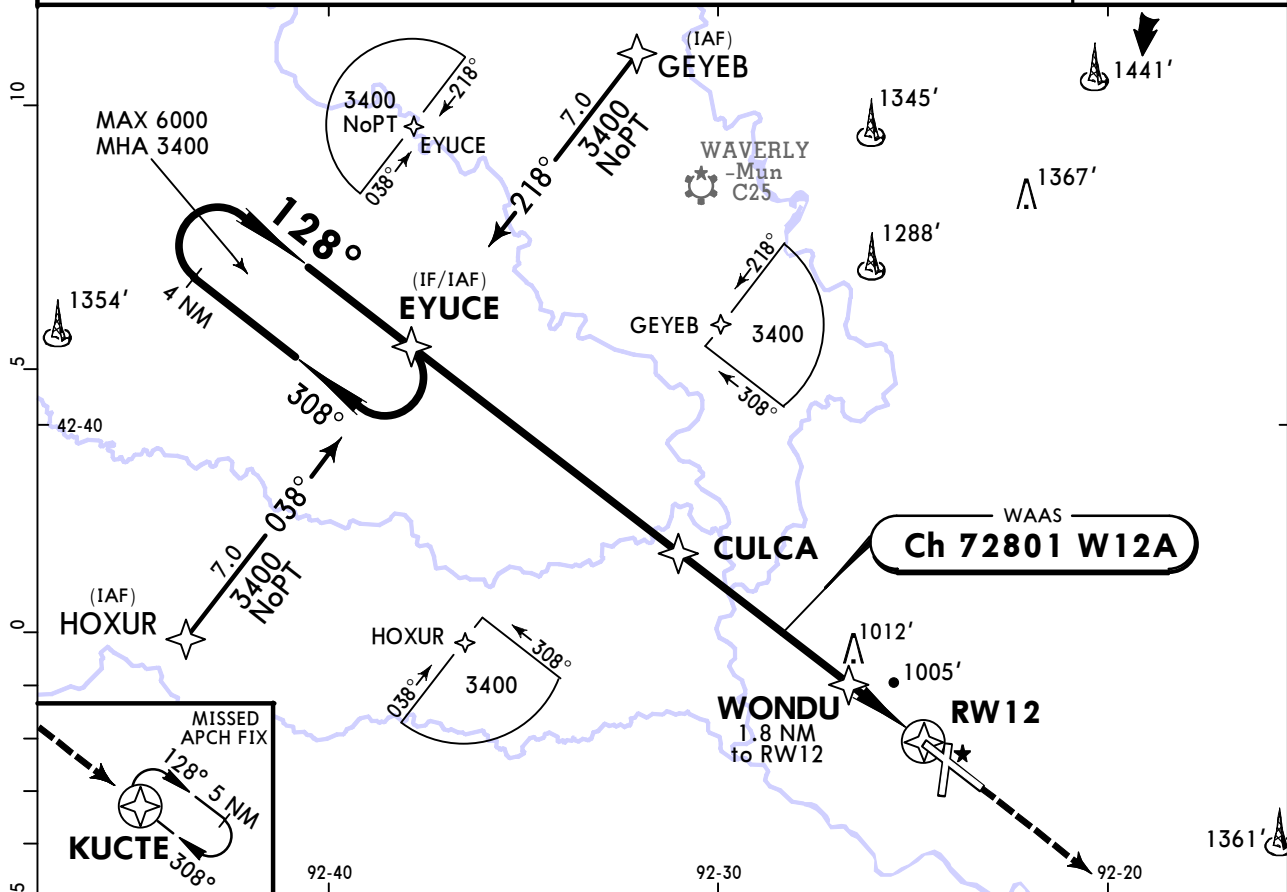
JEPPESEN
26 SEP 25 (12-1) Eff 2 Oct

WATERLOO, IOWA
RNAV (GPS) Rwy 12

BRIEFING STRIP

ATIS (ASOS when Twr inop) 120.65	*DES MOINES Approach (R) 118.9	MINNEAPOLIS Center (R) 118.9 when App inop.	*WATERLOO Tower CTAF 125.075	*Ground 121.9
WAAS Ch 72801 W12A	Final Apch Crs 128°	CULCA 2800' (1927')	LPV DA(H) 1073 (200')	Apt Elev 873' TDZE 873'
MISSED APCH: Climb to 3400' direct KUCTE and hold.				
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'
RNP Apch				
1. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below -19°C (-3°F) or above 54°C (130°F). 2. Pilot controlled lighting 125.075.				

TAA
30 NM
IAF



Gnd speed-Kts	70	90	100	120	140	160	MALSR	3400'	→	KUCTE
Glide Path Angle	3.00°	372	478	531	637	743	PAPI	↑		
MAP at RW12										

TERPS				STRAIGHT-IN LANDING RWY 12				CIRCLE-TO-LAND	
LPV		LNAV/VNAV		LNAV		C			
DA(H) 1073' (200')		DA(H) 1252' (379')		MDA(H) 1260' (387')		Max Kts		MDA(H)	
RAIL/ALS out		RAIL/ALS out		RAIL/ALS out					
A				RVR 24 or 1/2	RVR 50 or 1	90		1360' (487') - 1	
B	RVR 24 or 1/2	RVR 40 or 3/4	RVR 30 or 5/8	RVR 55 or 1		120		1400' (527') - 1	
C				RVR 35 or 5/8	RVR 60 or 1 1/4	140		1480' (607') - 1 3/4	
D						165		1600' (727') - 2 1/4	

1 RVR 18 with Flight Director or Autopilot or HUD to DA.

TERPS AMEND 1 13 SEP 2018

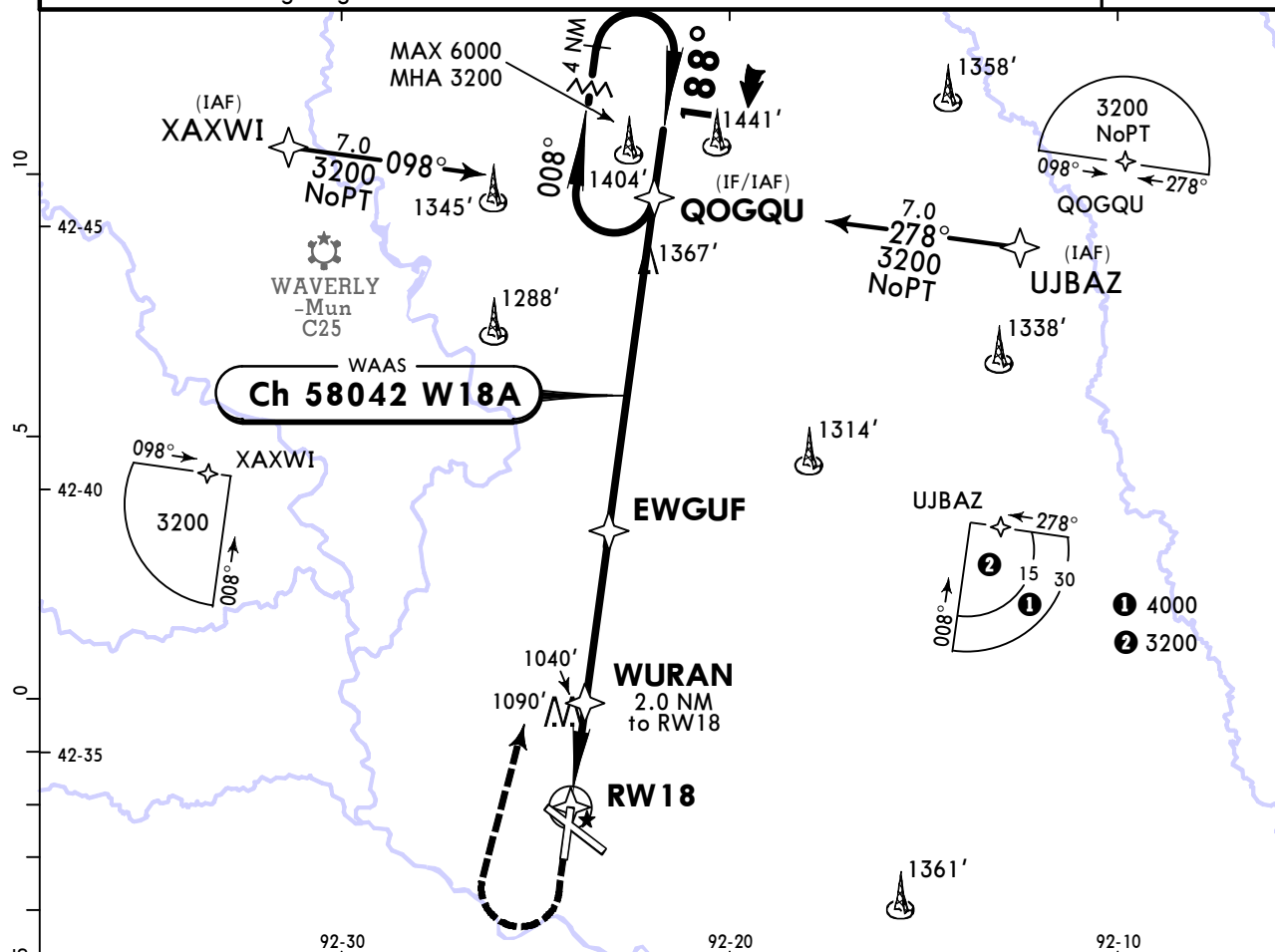
KALO/ALO WATERLOO REGL

26 SEP 25 **(12-2)** **Eff 2 Oct**

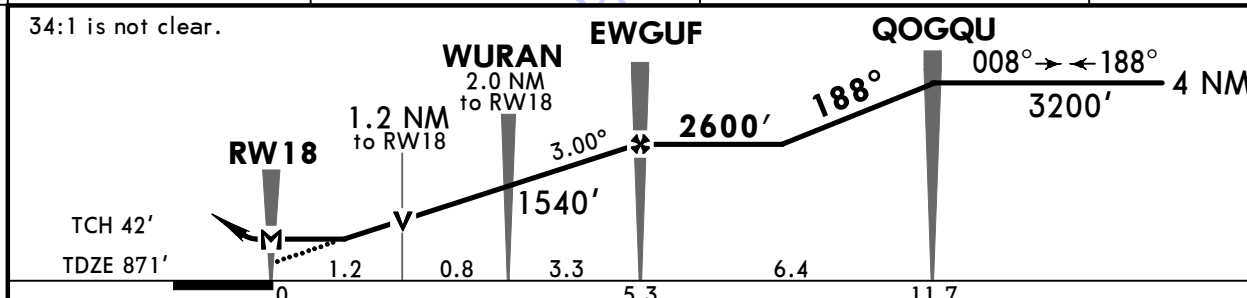
WATERLOO, IOWA RNAV (GPS) Rwy 18

BRIEFING STRIP™

ATIS (ASOS when Twr inop)		*DES MOINES Approach (R)		MINNEAPOLIS Center (R)		*WATERLOO Tower		*Ground	
120.65		118.9		118.9 when App inop.		CTAF 125.075		121.9	
WAAS Ch 58042 W18A		Final Apch Crs 188°		EWGUF 2600' (1729')		LP MDA(H) 1300' (429')		Apt Elev 873' TDZE 871'	
MISSED APCH: Climb to 2000', then climbing RIGHT turn to 3200' direct QOGQU and hold.								TAA 30 NM IAF	
RNP Apch		Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'			
1. Rwy 18 helicopter visibility reduction below 3/4 SM not authorized.									
2. Pilot controlled lighting 125.075.									



34:1 is not clear.



Gnd speed-Kts	70	90	100	120	140	160	REIL	2000'	3200'	→	QOGQU
Descent Angle	3.00°	372	478	531	637	743	VASI-L	↑	RT		
MAP at RW18											

TERPS				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 18							
LP	MDA(H)	LNAV	MDA(H)	Max Kts	MDA(H)		
A	1	1		90	1360' (487') - 1		
B	1	1		120	1400' (527') - 1		
C	1 1/4	1 3/8		140	1480' (607') - 1 3/4		
D	1 1/4	1 3/8		165	1600' (727') - 2 1/4		

TERPS AMEND 1 13 SEP 2018

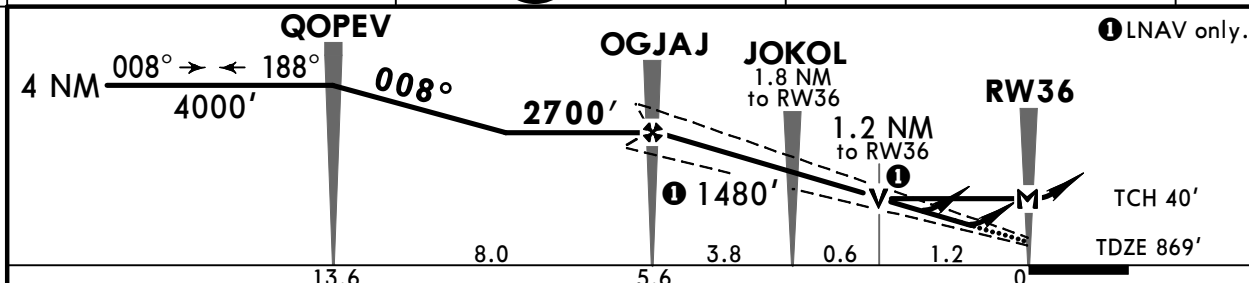
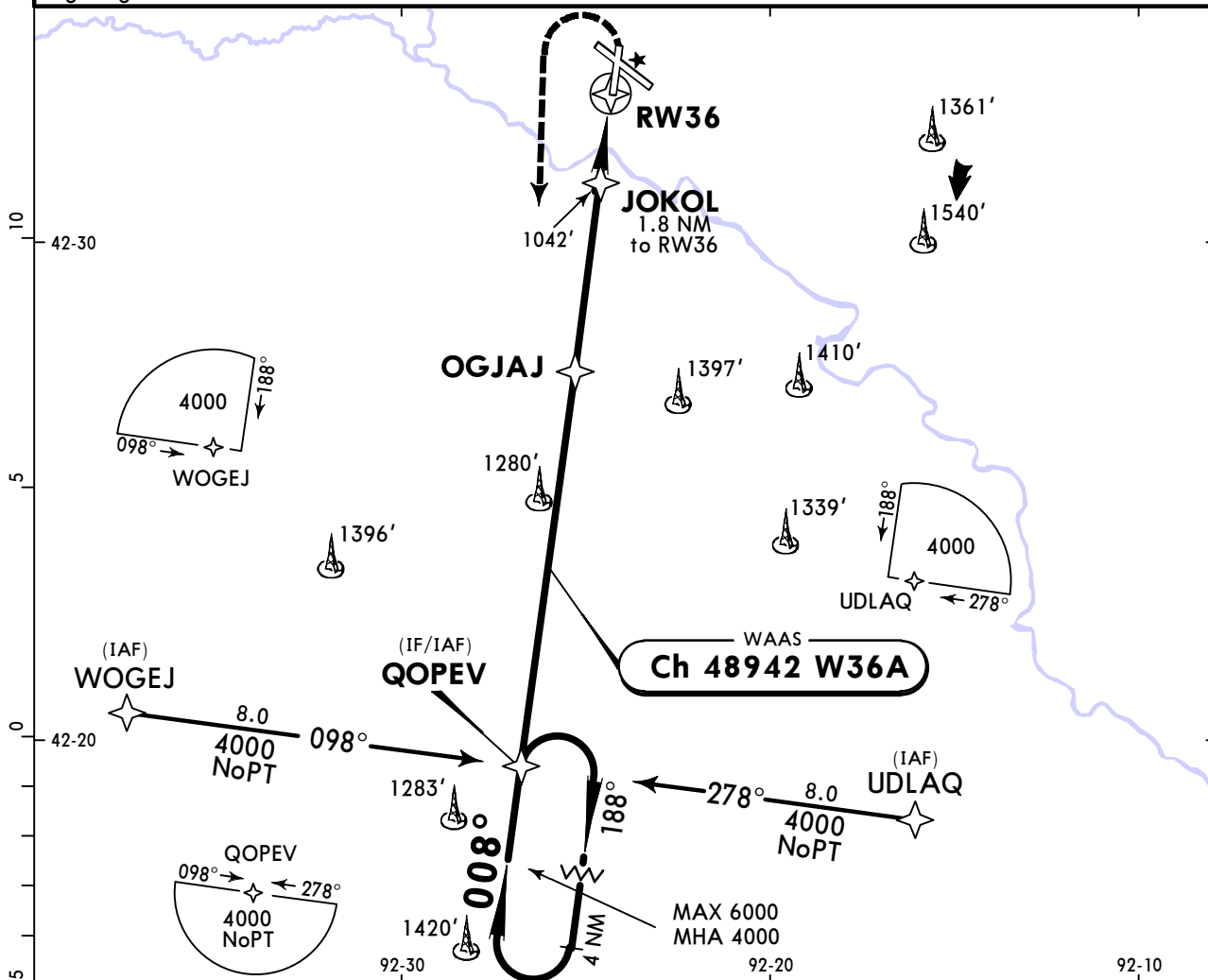
KALO/ALO
WATERLOO REGL

26 SEP 25 (12-4) Eff 2 Oct

WATERLOO, IOWA
RNAV (GPS) Rwy 36

BRIEFING STRIP™

ATIS (ASOS when Twr inop) 120.65	*DES MOINES Approach (R) 118.9	MINNEAPOLIS Center (R) 118.9 when App inop.	*WATERLOO Tower CTAF 125.075	*Ground 121.9
WAAS Ch 48942 W36A	Final Apch Crs 008°	OGJAJ 2700' (1831')	LPV DA(H) 1069' (200')	Apt Elev 873' TDZE 869'
MISSED APCH: Climb to 2000', then climbing LEFT turn to 4000' direct QOPEV and hold.				
RNP Apch - GPS Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'				
1. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below - 20°C (-4°F) or above 54°C (130°F). 2. VGSI and RNAV glidepath not coincident (VGSI angle 3.00°/ TCH 51'). 3. Pilot controlled lighting 125.075.				



Gnd speed-Kts	70	90	100	120	140	160	REIL	2000'	4000'	D	QOPEV
Glide Path Angle 3.00°	372	478	531	637	743	849	PAPI-L	↑	LT		
MAP at RW36											

TERPS AMEND 1A 13 SEP 2018

TERPS			STRAIGHT-IN LANDING RWY 36			CIRCLE-TO-LAND		
LPV			LNAV/VNAV			LNAV		
DA(H) 1069' (200')			DA(H) 1190' (321')			MDA(H) 1300' (431')		
A						1	90	1360' (487') -1
B							120	1400' (527') -1
C						1 1/4	140	1480' (607') -1 3/4
D							165	1600' (727') -2 1/4

CHANGES: Approach call sign.

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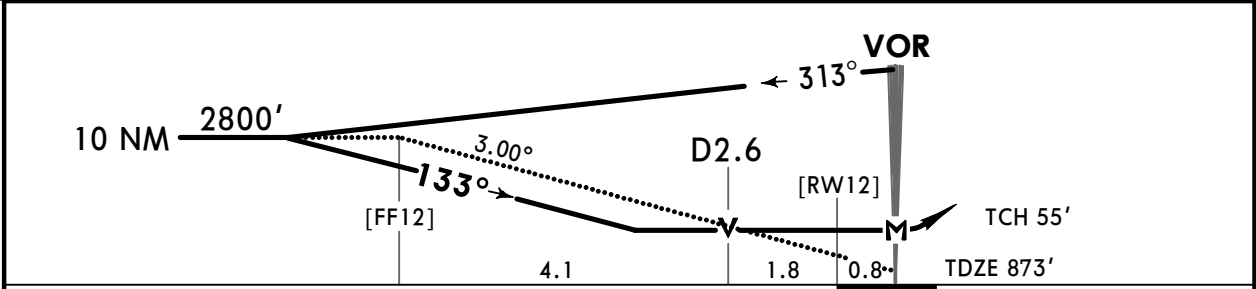
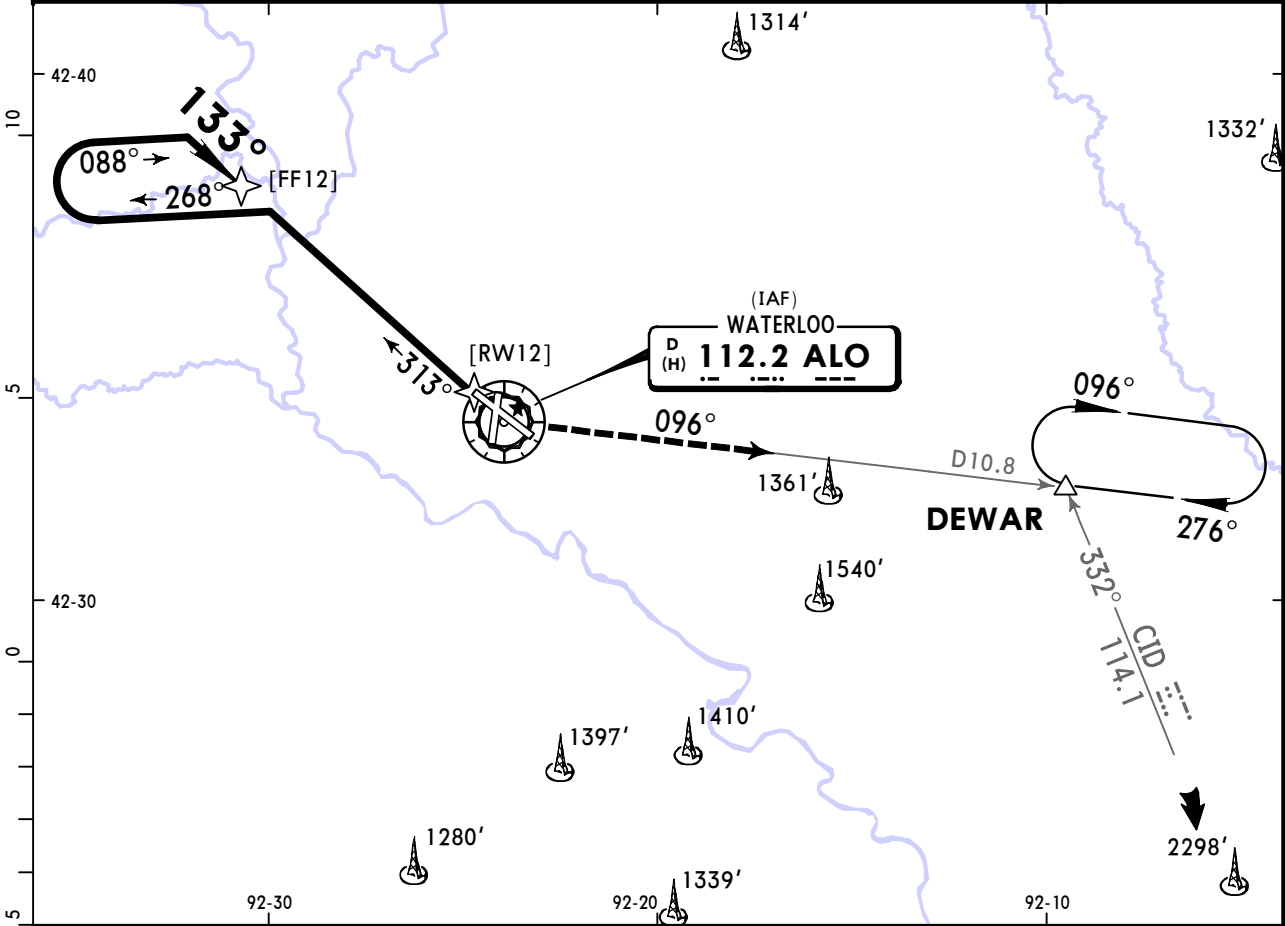
KALO/ALO
WATERLOO REGL

JEPPESSEN
26 SEP 25 (13-1) Eff 2 Oct

WATERLOO, IOWA
VOR Rwy 12

BRIEFING STRIP™

ATIS (ASOS when Twr inop)		*DES MOINES Approach (R)		MINNEAPOLIS Center (R)		*WATERLOO Tower		*Ground	
120.65		118.9		118.9 when App inop.		CTAF 125.075		121.9	
VOR ALO 112.2	Final Apch Crs 133°	No FAF		MDA(H) 1500' (627')		Apt Elev 873' TDZE 873'			
MISSED APCH: Climbing LEFT turn to 3300' outbound on ALO VOR R-096 to DEWAR INT and hold.									
Alt Set: INCHES		Trans level: FL 180			Trans alt: 18000'				
Pilot controlled lighting 125.075.									
								MSA ALO VOR	



Gnd speed-Kts	70	90	100	120	140	160		MALSR	3300'	ALO	
Descent Angle	3.00°	372	478	531	637	743	849	PAPI	LT	112.2	DEWAR
MAP at VOR										R-096	

TERPS				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 12							
MDA(H) 1500' (627')							
RAIL/ALS out							
A	RVR 24 or 1/2		RVR 50 or 1	Max Kts	MDA(H)		
B				90	1500' (627') - 1		
C	1 3/8		1 3/4	120	1500' (627') - 1 3/4		
D				140	1500' (627') - 1 3/4		
				165	1600' (727') - 2 1/4		

CHANGES: Approach call sign.

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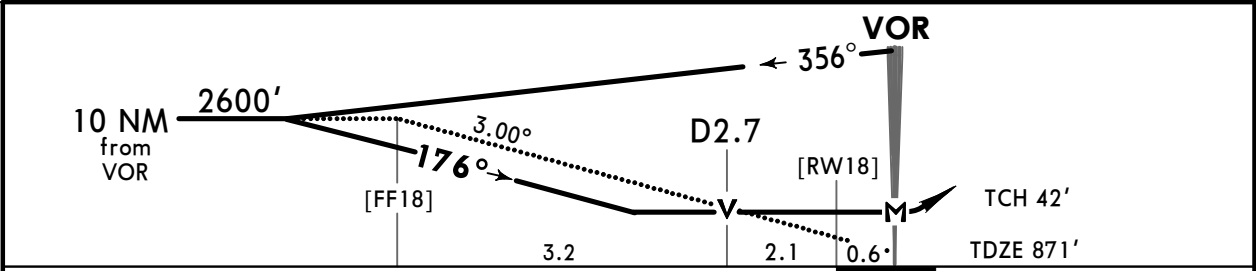
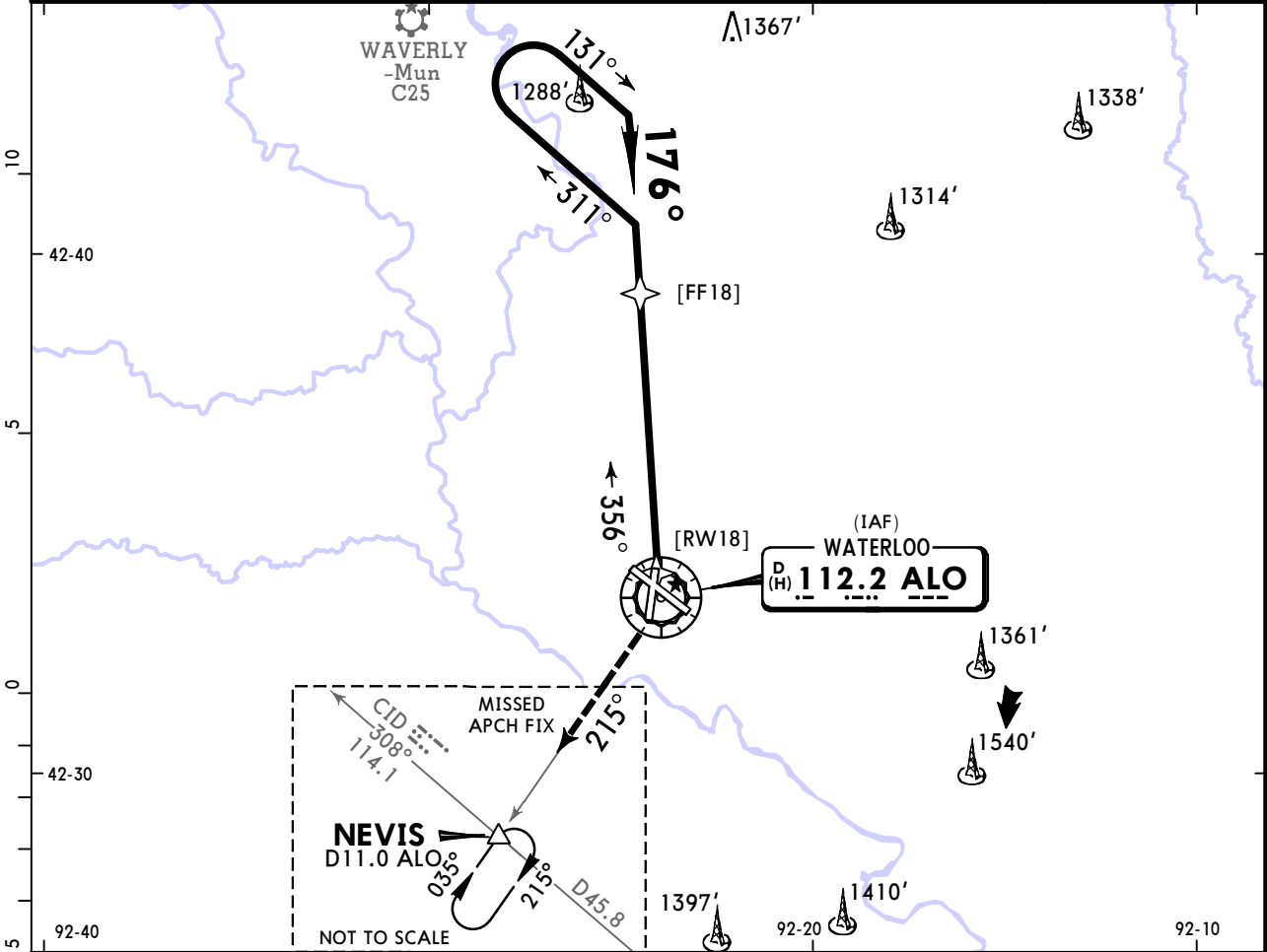
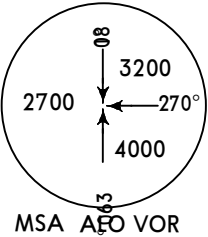
KALO/ALO
WATERLOO REGL

JEPPESSEN
26 SEP 25 13-2 Eff 2 Oct

WATERLOO, IOWA
VOR Rwy 18

ATIS (ASOS when Twr inop) 120.65		*DES MOINES Approach (R) 118.9		MINNEAPOLIS Center (R) 118.9 when App inop.		*WATERLOO Tower CTAF 125.075		*Ground 121.9	
VOR ALO 112.2		Final Apch Crs 176°		No FAF		MDA(H) 1600' (729')		Apt Elev 873' TDZE 871'	
MISSED APCH: Climbing RIGHT turn to 2800' outbound on ALO VOR R-215 to NEVIS INT and hold.									
Alt Set: INCHES		Trans level: FL 180				Trans alt: 18000'			
1. Rwy 18 helicopter visibility reduction below 3/4 SM not authorized. 2. Pilot controlled lighting 125.075.									

2800
3200
2700
270°
4000
MSA AEO VOR



Gnd speed-Kts	70	90	100	120	140	160				
Descent Angle 3.00°	372	478	531	637	743	849				
MAP at VOR										

TERPS					STRAIGHT-IN LANDING RWY 18					CIRCLE-TO-LAND				
					MDA(H) 1600' (729')									
A	1													
B														
C	2													
D														

WATERLOO, IA (WATERLOO REGL - KALO)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport KALO

Chart Change Notices for Country USA

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Due to a change of the FAA's statute mile equivalent value for RVR, approach charts with a visibility of RVR 55 or 1 1/4 should be RVR 55 or 1.

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

MALSR & SSALR RAIL out Lighting Condition - U.S. FAA Locations The FAA has confirmed that for MALSR and SSALR approach light systems, the RAIL out, or partial system condition, is not applicable when determining landing visibilities. When any component of a MALSR or SSALR approach light system is inoperative, such as RAIL out, the landing visibilities should be determined as if the entire lighting system were inoperative (ALS out). Therefore, the RAIL out visibility column should be disregarded.

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

ILS Procedures RVR 1800 Statute Mile Equivalent-U.S. FAA Airports On a number of ILS approach procedures at U.S. FAA airports, the published landing visibility value of RVR 1800 depicts a Statute Mile equivalent value of 3/8 Statute Mile. According to FAA FAR and AIM publications, the Statute Mile equivalent for RVR 1800 should be 1/2 Statute Mile. Beginning with the revision dated 20 May 2016 affected U.S. ILS approach charts will be updated to depict the appropriate Statute Mile equivalent visibility of 1/2 Statute Mile.