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Project Name: ELO - new circling areas

Project Reason: ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. Alternate minimums updated based on new circling HAA/visibilities only, other values not verified. Controlling obstacles: Cat A: Tree 474810.91N/0914831.98W 1619 (2C) + ROC 300 = MDA 1920. Cat B: Tree 474738.36N/0914952.78W 1629 (2C) + ROC 300 = MDA 1940. Cat C: Tree 474650.24N/0914956.47W 1639 (2C) + ROC 300 = MDA 1940. Cat D: Tower (27-001357) 475301.00N/0915032.00W 2001 (4D) + ROC 300 + AC 50 = MDA 2360. Radii: 1.31, 1.86, 2.92, 3.82.

Last Updated By: Russell Roslewski

Last Updated At: 2020-12-16 13:36:43.847201

Status: Verified **1/0351**

!FDC X/XXXX ELO IAP ELY MUNI, ELY, MN. RNAV (GPS) RWY 30, AMDT 1B... CIRCLING CAT B MDA 1940/HAA 484, CAT D MDA 2360/HAA 904, VIS CAT D 3. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE. THIS IS RNAV (GPS) RWY 30, AMDT 1C. 2012161336-PERM


Digitally signed by
JASON KRETSCHMER
Mar 25, 2021



[Print](#)

Project Name: ELO RWY 30 20:1 SURFACE CLEAR UNDER NEW CRITERIA

Project Reason: ELO RWY 30 20:1 SURFACE CLEAR UNDER NEW CRITERIA

Last Updated By: Steve Brummett 

Last Updated At: 2015-08-25 17:08:11.246309

Status: Verified

5/9213

!FDC X/XXXX ELO IAP ELY MUNI, ELY, MN. RNAV (GPS) RWY 30, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 30 PROCEDURE NA AT NIGHT. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 30, AMDT 1B. 1508251708-PERM

8/25/15
SP

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearing, headings, courses, 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 in feet RVR.		
TERMINAL ROUTES				MISSED APPROACH		
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW30 CLIMB TO 4100 DIRECT PUXIE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 119.53 INBOUND. CHART FAS OBST: 1599 TREE 474832N/0914848W DISTANCE TO THLD FROM 250 HATH: 0.62 NM. WAAS CHANNEL # 93627 REFERENCE PATH ID: W30A CHART AIRPORT ELEV: 1456 LTP HAE: 413.1 M		
ODASE (IF/IAF)	HABSA (FB)	299.92 / 6.00	3300			
HABSA (FAF)	BINDE/2.20 NM TO RW30 (FB)	299.82 / 3.43				
BINDE/2.20 NM TO RW30	RW30 (MAP) (FO)	299.77 / 2.20				
RW30 (MAP)	1706 MSL	299.77				
1706 MSL	PUXIE (FO)		4100			
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE ODASE, RT, 299.92 INBOUND, 4100 FT. IN LIEU OF PT (IAF) 3. FAC: 299.82 FAF: HABSA DIST FAF TO MAP: 5.63 THLD: 5.63 4. MIN. ALT: ODASE 4100, HABSA 3300, BINDE/2.20 NM TO RW30 2200* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: 3300 GS ALT AT: HABSA 3300 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: 3.00 TCH: 52.0 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 0E EPOCH YEAR: 2000		
MINIMUMS						
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		
STANDARD @						
CATEGORY ==>	A		B		C	
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1706	1	250	1706	1	250
LNAV/VNAV DA	1780	1	324	1780	1	324
LNAV MDA	1860	1	404	1860	1 1/8	404
CIRCLING	1920	1	464	1920	1	464
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING COOK ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 34C (93F). CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 30 PROCEDURE NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)						
CITY AND STATE		ELEVATION: 1456 THRE: 1456		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ELY, MN		AIRPORT NAME: ELY MUNI				RNAV (GPS) RWY 30, AMDT 1 09 FEB 2012
						SUP: AMDT: DATED
						ORIG 11/01/2001

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COOK ALTIMETER SETTING AND INCREASE ALL DA/MDA 100 FEET; INCREASE LPV VISIBILITY 1/8 MILE ALL CATS, LNAV/VNAV VISIBILITY 3/8 MILE ALL CATS, AND LNAV CAT C/D VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	210/30 CW 030/30 (NOPT)	ODASE (IF/IAF) (FB)	4100
2.	030/30 CW 210/30	ODASE (IF/IAF) (FO)	4100

QUALITY
2
CHECKED

CITY AND STATE ELY, MN	ELEVATION: 1456	THRE: 1456	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 09 FEB 2012	SUP:
	AIRPORT NAME: ELY MUNI				AMDT: ORIG
					DATED: 11/01/2001

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

0
0
KELO
RW30
0

0
W30A
474912.7550N
0914909.9520W
+04131
474956.9000N
0915104.7900W
00052.0
F
03.00
106.75
1048
40.0
50.0

CRC REMAINDER

ETE7252D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K3
+04437
+04437

QUALITY
2
CHECKED

CITY AND STATE

ELY, MN

ELEVATION: 1456

THRE: 1456

AIRPORT NAME:

ELY MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 1

09 FEB 2012

SUP:

AMDT:

ORIG

DATED:

11/01/2001

Bearings, headings, courses, 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 in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KELOK3FR30	AODASE	0100DASEK3EA0EE	AR	HF			29990050	+	04100	18000		A	JS
SUSAP KELOK3FR30	R	0100DASEK3EA0E	I	IF				+	04100	18000		A	JS
SUSAP KELOK3FR30	R	020HABSAK3EA1E	F	051TF			29990060	+	03300			A	JS
SUSAP KELOK3FR30	R	020HABSAK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KELOK3FR30	R	021BINDEK3EA0E	S	031TF			29980034	V	0220002208	-300		A	JS
SUSAP KELOK3FR30	R	030RW30	K3PG0GY	M	031TF		29980022		01508	-300		A	JS
SUSAP KELOK3FR30	R	040		0	M	CA	2998	+	01706			A	JS
SUSAP KELOK3FR30	R	050PUXIEK3EA0EY		DF				+	04100			A	JS
SUSAP KELOK3FR30	R	060PUXIEK3EA0EE	R	HM			11950050	+	04100			A	JS

[illegible][illegible]

QUALITY
CHECKED

CITY AND STATE ELY, MN	ELEVATION: 1456	THRE: 1456	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 09 FEB 2012	SUP:	
	AIRPORT NAME:				AMDT:	ORIG
	ELY MUNI				DATED:	11/01/2001

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	ODASE	ODASE	010	IAF	HF	R	FO		299.9 (299.9T)	005.0	04100
		ODASE	010	FACF	IF						04100
		HABSA	020	FAF	TF		FB	0.5	299.9 (299.9T)	006.0	03300
		BINDE	021	SDF	TF		FB	0.3	299.8 (299.8T)	003.4	0220002208
		RW30	030	MAP	TF		FO	0.3	299.8 (299.8T)	002.2	01508

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
		040		CA				299.8 (299.8T)		01706
	PUXIE	050		DF		FO				04100
	PUXIE	060		HM	R	FO		119.5 (119.5T)	005.0	04100

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BINDE	N474807.30	W0914619.92	N4748.122	W09146.332
	HABSA	N474625.17	W0914155.21	N4746.420	W09141.920
	ODASE	N474325.94	W0913412.45	N4743.432	W09134.208
	PUXIE	N475527.26	W0920528.41	N4755.454	W09205.474
	RW30	N474912.76	W0914909.95	N4749.213	W09149.166

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30	01456	52

QUALITY
1
CHECKED

CITY AND STATE
ELY, MN

ELEVATION: 1456 THRE: 1456
AIRPORT NAME:
ELY MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 1

SUP:
AMDT: ORIG
DATED: 11/01/2001

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE				
ODASE (IF/IAF)	HABSA (FB)	299.92 / 6.00	3300	LPV: DA LNAV/VNAV: DA LNAV: RW30 CLIMB TO 4100 DIRECT PUXIE AND HOLD.			
HABSA (FAF)	BINDE/2.20 NM TO RW30 (FB)	299.82 / 3.43					
BINDE/2.20 NM TO RW30	RW30 (MAP) (FO)	299.77 / 2.20		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 119.53 INBOUND. CHART FAS OBST: 1599 TREE 474832N/0914848W DISTANCE TO THLD FROM 250 HATH: 0.62 NM. WAAS CHANNEL # 93627 REFERENCE PATH ID: W30A CHART AIRPORT ELEV: 1456 LTP HAE: 413.1 M			
RW30 (MAP)	1706 MSL	299.77					
1706 MSL	PUXIE (FO)		4100				

1. PT		SIDE OF COURSE		OUTBOUND		FT WITHIN		MILES OF		(IAF)
2. HOLD SE ODASE, RT, 299.92 INBOUND, 4100 FT. IN LIEU OF PT (IAF)										
3. FAC:		299.82		FAF: HABSA		DIST FAF TO MAP:		5.63		THLD: 5.63
4. MIN. ALT: ODASE 4100, HABSA 3300, BINDE/2.20 NM TO RW30 2200*										
5. DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		100 HAT:		GS ANT:
6. MIN GS INCPT:		3300		GS ALT AT: HABSA 3300		OM:		MM:		IM:
7. GS ANGLE:		3.00		TCH: 52.0		34:1 IS NOT CLEAR				
8. MSA FROM:										

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @			
CATEGORY	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1706	1	250	1706	1	250	1706	1	250	1706	1	250			
LNAV/VNAV DA	1780	1	324	1780	1	324	1780	1	324	1780	1	324			
LNAV MDA	1860	1	404	1860	1	404	1860	1 1/8	404	1860	1 1/8	404			
CIRCLING	1920	1	464	1920	1	464	1940	1 1/2	484	2020	2	564			

NOTES:

CHART NOTE: BARO-VNAV NA WHEN USING COOK ALTIMETER SETTING.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 34C (93F).

CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 30 PROCEDURE NA AT NIGHT.

CHART NOTE: DME/DME RNP-0.3 NA.

(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE ELY, MN	ELEVATION: 1456	THRE: 1456	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1	SUP:
	AIRPORT NAME:				AMDT: ORIG
	ELY MUNI				DATED 11/01/2001

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE ROUTINE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input checked="" type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input checked="" type="checkbox"/>	NBA <input checked="" type="checkbox"/>
OTHER (specify) <u>ZMP, AMGR</u>					
FLIGHT CHECKED BY					
NAME: <u>Curt E. Draper</u>				FIFO AVN	DATE: 12/21/11
DEVELOPED BY					
NAME: <u>THOMAS L KIRKPATRICK</u>				FIFO AJV-353	DATE: 08/16/2011
APPROVED BY					
NAME: <u>LARRY H STROUT</u>				FIFO AJV-353	DATE: DEC 23 2011
CHANGES:					
1. ADD LPV AND LNAV/VNAV LINES OF MINIMUMS AND ALL ASSOCIATED NOTES. 2. REMOVED KUMDE FEEDER AND PATKE INITIA AND REPLACED WITH TAA. 3. CHANGED DISTANCE ODAE TO HABSA FROM 5 NM TO 6 NM. 4. BINDE MOVED FROM 3.00 NM TO 2.20 NM. 5. DIST FAF TO MAP/THLD CHANGED FROM -5.54 TO 5.63/5.63. 6. DISTANCE FAF TO STEPDOWN CHANGED FROM 2.54 TO 3.43. 7. MIN ALTITUDE AT STEPDOWN CHANGED FROM 2460 TO 2200. 8. CHANGED 34:1 IS CLEAR TO NOT CLEAR. 9. LNAV HAT CHANGED FROM 405 TO HATH 404. 10. LNAV CAT C AND D VISI CHANGED FROM 1 1/4 TO 1 1/8. 11. MISSED APPROACH CHANGED TO OPPOSITE END IF/IAF. 12. MADE ALTERNATE MINS STANDARD WITH NOTE. 13. ADD BACK-UP ALTIMETER SETTING MINIMUMS VIA NOTE. 14. ADD RNAV GLIDPATH NOT COINCIDENT NOTE. SEE 8260-10					
REASONS:					
1. FTW FPT REQUEST. 2. ATC REQUEST. 3. FPT REQUEST. 4,6,7. STABILIZED DESCENT. 5. MOVED TO RNP PFAF LOCATION. 8,15,16. VISUAL SURFACE PENETRATED. 9. CRITERIA. 10. NEW VISIBILITY TABLE. 11. ATC REQUEST. 12. AIRPORT QUALIFIES. 13. REQUIREMENT. 14. NOT.					
PDF EDITS: ADD (FAF) TO HABSA, REMOVE STEPDOWN ALTITUDE, CHANGED MISS ALTITUDE.					

QUALITY
 2
 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
STRAIGHT-IN AREA	030/30 CW 210/30	ODASE	1. TOWER (27-000195)	473325.00N/0912030.00W	2316 (5E)	1000	AT784	4100			
			2. TERRAIN	475103.00N/0905609.00W	2100 (2100)	AS1500	3600				
STRAIGHT-IN AREA	210/30 CW 030/30	ODASE	3. TOWER (27-001252)	473533.00N/0921346.00W	2304 (5D)	1000	AT796	4100			
			4. TERRAIN	473621.00N/0921009.00W	2002 (2000)	AS1500	3500				
INTERMEDIATE	ODASE (IF/IAF)	HABSA	5. AAO	474224.00N/0913354.00W	1998 (4E)	500	AC98 AT704	3300			
			6. TERRAIN	474651.00N/0913709.00W	1739 (1700)	AS1500	3200				
FINAL: LPV	HABSA	RW30	7. TREE (KELOT026)	474904.81N/0914900.06W	1510 (1B)	34:1	AC10	1706/250			
FINAL: LNAV/VNAV	HABSA	RW30	8. TREE	474832.00N/0914848.00W	1599 (2C)	PDA	AC20	1780/324			
FINAL: LNAV	HABSA	BINDE/2.20 NM TO RW30	9. AAO	474657.10N/0914336.87W	1819 (2C)	250	RA99	2180			
FINAL: LNAV STEPDOWN	BINDE/2.20 NM TO RW30	RW30	8. TREE	474832.00N/0914848.00W	1599 (2C)	250		1860			
2. HOLD-IN-LIEU-OF-PT	ODASE	P-6	10. AAO	473815.00N/0912206.00W	2241 (4E)	1000	AT859	4100			
			11. TERRAIN	473815.00N/0912206.00W	2041 (2000)		AS1500	3500			
3. MISSED APPROACH	MAP: DA / DA / RW30	PUXIE				ASC		4100			
	ELEV: 1517/1619/1760		12. AAO	475406.00N/0920706.00W	1847 (4E)	1000		2900			
			13. TERRAIN	475406.00N/0920706.00W	1647 (1600)		AS1500	3100			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	465	14. TREE	474811.00N/0914832.00W	1619 (2C)	300		1920
CATEGORY B	1.5 NM		450		465	14. TREE	474811.00N/0914832.00W	1619 (2C)	300		1920
CATEGORY C	1.7 NM		450		485	15. TREE	474741.00N/0914936.00W	1629 (2C)	300		1940
CATEGORY D	2.3 NM		550		565	16. TREE	474703.00N/0914832.00W	1639 (2C)	300	HAA	2020
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID:							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
CITY AND STATE		ELEVATION: 1456		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
ELY, MN		AIRPORT NAME: ELY MUNI		RNAV		RNAV (GPS) RWY 30, AMDT 1		AGL			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING					
ZMP ARTCC PNM FSS					N W S	OTHER: AWOS-3		SOURCE:KELO / KCQM		VDP NOT ESTABLISHED - OBSTACLE'S PENETRATE 20:1. PRECIPITOUS TERRAIN EVALUATION COMPLETED. VGSi DATA: 3.00/TCH 37.8. ISA DEVIATION -30 USED. WEATHER HISTORY NOT AVAILABLE AT "HTTP://WWW.NCDC.NOAA.GOV/OA/CLIMATE/STATIONLOCATOR.HTML."	
					F A A			DISTANCE: 0 / 34.82			
					A / C			HOURS REMOTE OPERATION: 24 / 24			
SATISFACTORY ON:			LOCATION: KELO			ADJUSTMENT: 0 / 99					
4. MONITOR STATUS			X		V H F	X		U H F	H F	RASS PRESSURE PATTERNS SAME KELO 1456, KCQM 1328 RA = 98.1. SEE ATTACHED AIRSPACE LETTER. TERPS, 8260.3B PARAGRAPH 3.2.2D PENETRATIONS: (FPT NOTIFIED) 20:1 TREE (KELOT026) 474904.81N/0914900.06W (15.14) TREE (KELOT0012) 474906.76N/0914903.38W (2.87)	
			PRIMARY NAVAID:								
			MONITOR POINT:								
5. APPROACH & RUNWAY LIGHTING			HRS		CAT 1						TERPS, 8260.3B PARAGRAPH 3.2.2D PENETRATIONS: (FPT NOTIFIED) 34:1 TREE (KELOT0408) 474853.65N/0914939.57W (8.11) TREE (KELOT0403) 474906.55N/0914832.76W (11.31) TREE (KELOT038) 474905.90N/0914836.90W (1.51) TREE (KELOT0037) 474907.41N/0914847.75W (9.70) GRD (KELOT0368) 474903.63N/0914900.82W (1.88) TREE (KELOT0366) 474905.33N/0914900.76W (11.23) TREE (KELOT025) 474906.09N/0914853.15W (15.16) TREE (KELOT0007) 474906.37N/0914901.83W (2.69) GRD (KELOT0001) 474904.59N/0914901.82W (6.05)
			OPTN:		CAT 3						
					ALS						
					(S) SALS						
					MALS						
					HIRL						
					MIRL						
					REIL						
6. RUNWAY MARKINGS					BASIC					ALL ASSUMED VEGETATION/TREE HEIGHTS 100 FEET. ALL DA/MDA'S ROUNDED TO 100'. NO ADDITIONAL ADJUSTMENTS REQUIRED AS PER .3B CHG 20 TABLE'S 3-5A, B, AND C.	
					ALL WEATHER						
					INSTRUMENT						
7. RUNWAY VISUAL RANGE					APPROACH						LPV: SURFACE = 34:1 LNAV/VNAV: SURFACE = 23.44:1
					MIDFIELD						
					ROLL OUT						
8. GLIDE PATH			GP ANGLE: 3.00		ELEV RWY THRESHOLD:1455.6						
			DISTANCE FROM RWY:		ELEV GP ANTENNA:						
					THRESHOLD CROSSING HEIGHT:52.0						
9. FINAL APPROACH COURSE AIMING					RUNWAY THRESHOLD		FT. FROM THRESHOLD				
					ON CENTERLINE		FT. FROM CENTERLINE				
10. WAIVERS: NONE											
PART D - PREPARED BY: THOMAS L KIRKPATRICK						DATE: 08/16/2011					
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-353					

QUALITY
CHECKED