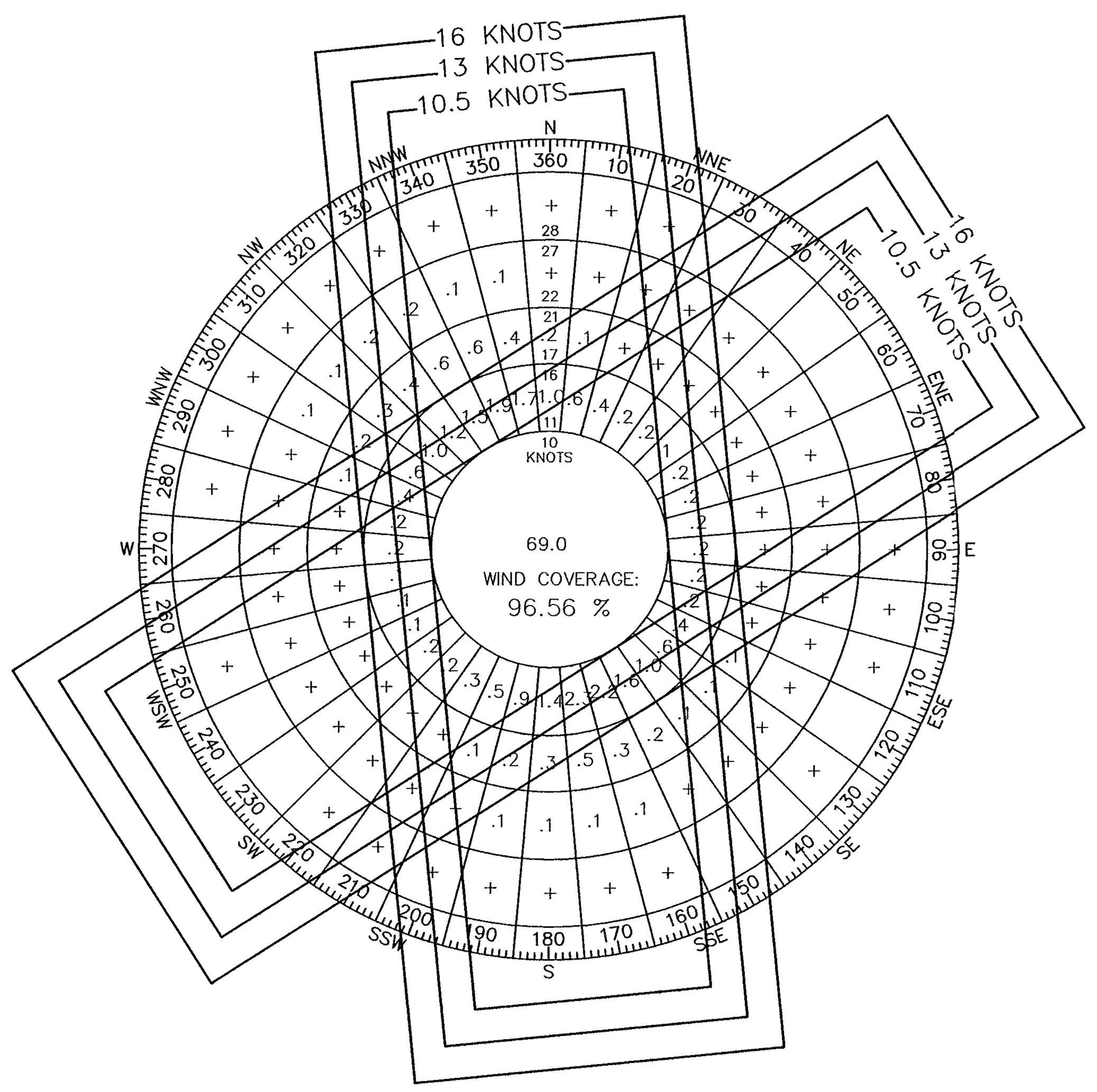


SURFACE WIND VELOCITY
10 YEAR 1991–2000
OMAHA, NEBRASKA
ALL WEATHER

ALL WEATHER WIND COVERAGE			
Runway	10.5 Knots	13 Knots	16 Knots
Runway 5/23	75.7	84.6	94.2
Runway 17/35	94.3	97.2	99.2
Runways Combined	96.6	98.7	99.6

AIRPORT DATA

RED OAK MUNICIPAL AIRPORT			
CITY: RED OAK, IOWA	COUNTY: MONTGOMERY		
RANGE: R–38W TOWNSHIP: T–72N	CIVIL TOWNSHIP: RED OAK		
		EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)		1045.0	1045.0
AIRPORT REFERENCE CODE		B–II	B–II
MEAN MAXIMUM TEMP. OF HOTTEST MONTH (°F)		89°	89°
AIRPORT REFERENCE POINT	LATITUDE	41°00'39.15"	41°00'39.15"
(A.R.P.) COORDINATES	LONGITUDE	95°15'31.91	95°15'31.91
AIRPORT AND TERMINAL NAVIGATIONAL AIDS		NDB, GPS	NDB, GPS
CRITICAL AIRCRAFT ①		KING AIR	KING AIR

① CONSIDERED AS A GROUP OR FAMILY OF AIRCRAFT

NOTES

THERE ARE NO MODIFICATIONS TO AIRPORT DESIGN STANDARDS

THERE ARE NO OFZ OBJECT PENETRATIONS

THERE ARE NO THRESHOLD SITING SURFACE PENETRATIONS

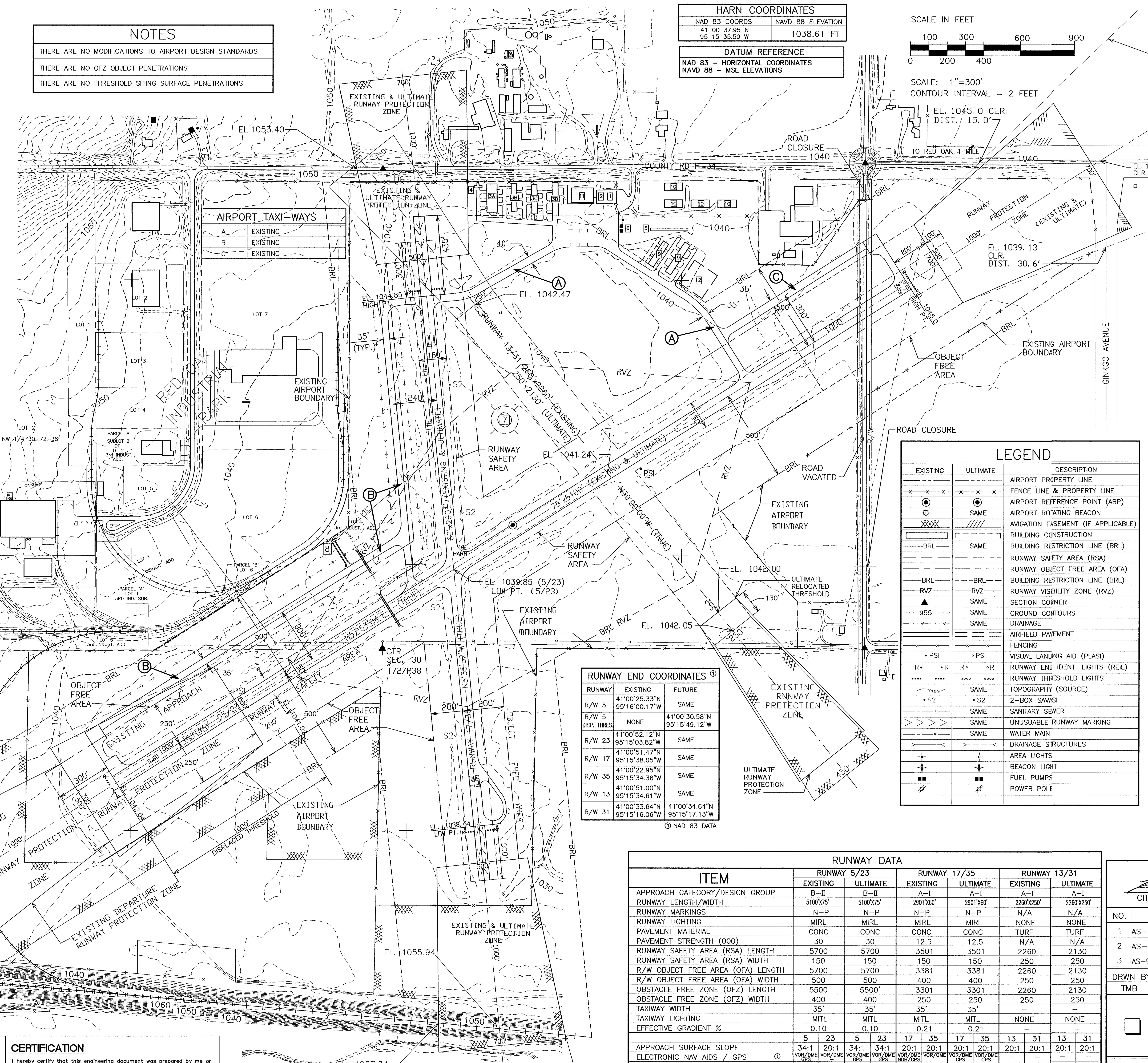
HARN COORDINATES	
NAD 83 COORDS	NAVD 88 ELEVATION
41 00 37.95 N 95 15 35.50 W	1038.61 FT

DATUM REFERENCE
NAD 83 – HORIZONTAL COORDINATES
NAVD 88 – MSL ELEVATIONS

SCALE IN FEET
SCALE: 1"=300'
CONTOUR INTERVAL = 2 FEET

MAGNETIC DECLINATION: 3.4°
2005 VALUES

AIRPORT TAXI–WAYS	
A	EXISTING
B	EXISTING
C	EXISTING



RUNWAY END COORDINATES ①		
RUNWAY	EXISTING	FUTURE
R/W 5	41°00'25.33"N 95°16'00.17"W	SAME
R/W 5 DISP. THRES.	NONE	41°00'30.58"N 95°15'49.12"W
R/W 23	41°00'52.12"N 95°15'03.82"W	SAME
R/W 17	41°00'51.47"N 95°15'38.05"W	SAME
R/W 35	41°00'22.95"N 95°15'34.36"W	SAME
R/W 13	41°00'51.00"N 95°15'34.61"W	SAME
R/W 31	41°00'33.64"N 95°15'16.06"W	41°00'34.64"N 95°15'17.13"W

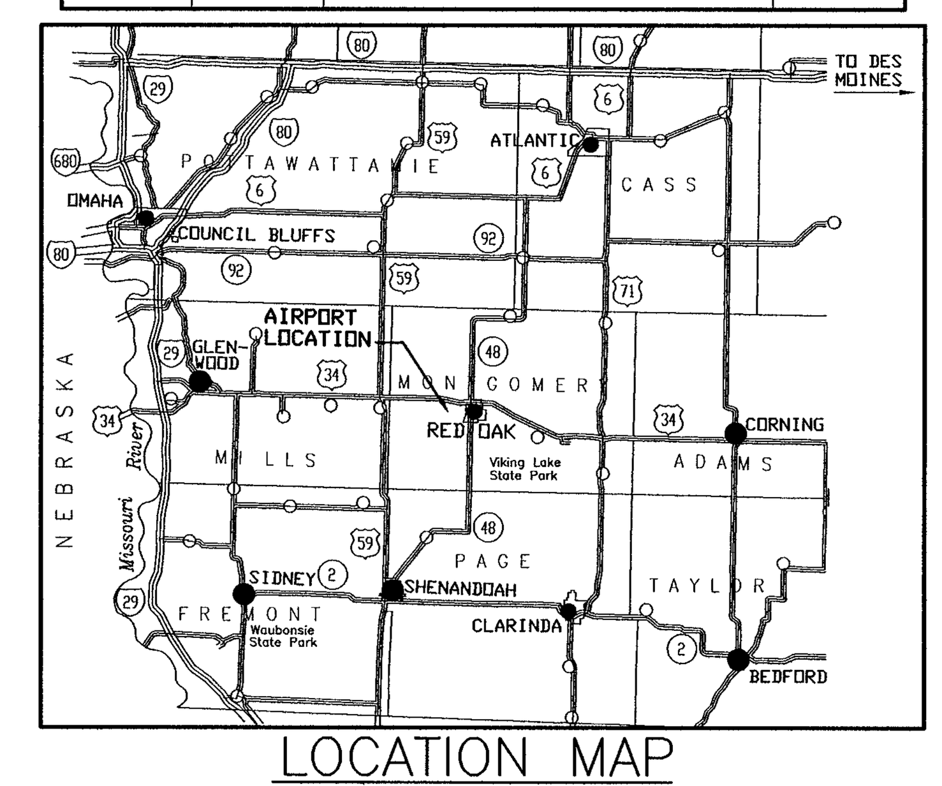
① NAD 83 DATA

BUILDING/FACILITIES

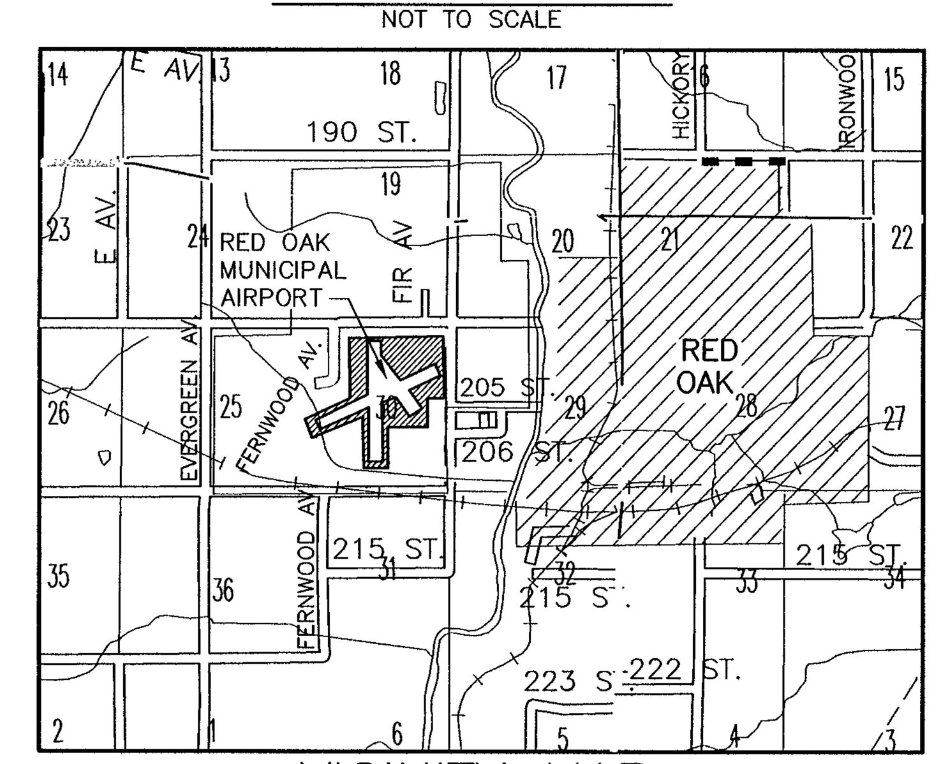
EXISTING	ULTIMATE	DESCRIPTION	ELEV.
1	1	ADMINISTRATION/TERMINAL BUILDING	1060.0
2	2	AIRCRAFT MAINTENANCE	1060.0
3A–3D	3A–3D	T–HANGAR (6–UNIT)	1056.4
4	4	HANGAR OPEN BAY (1–UNIT)	------
5	5	NDB	1087.8
6	6	FUEL TERMINAL	------
7	7	SEGMENTED CIRCLE/WIND TEE	1043.0
8	8	AWOS–III	------
9	9	T–HANGARS	1042.0
10	10	NON–AVIATION (STORAGE)	------
11	11	CORPORATE HANGAR AREA	1077.0

LEGEND

EXISTING	ULTIMATE	DESCRIPTION
		AIRPORT PROPERTY LINE
		FENCE LINE & PROPERTY LINE
		AIRPORT REFERENCE POINT (ARP)
	SAME	AIRPORT ROTATING BEACON
		AVIGATION EASEMENT (IF APPLICABLE)
		BUILDING CONSTRUCTION
BRL	SAME	BUILDING RESTRICTION LINE (BRL)
		RUNWAY SAFETY AREA (RSA)
		RUNWAY OBJECT FREE AREA (OFA)
BRL	BRL	BUILDING RESTRICTION LINE (BRL)
RVZ	RVZ	RUNWAY VISIBILITY ZONE (RVZ)
	SAME	SECTION CORNER
955	SAME	GROUND CONTOURS
	SAME	DRAINAGE
		AIRFIELD PAVEMENT
		FENCING
• PSI	∘ PSI	VISUAL LANDING AID (PLASI)
R• •R	R∘ ∘R	RUNWAY END IDENT. LIGHTS (REIL)
•••• ••••	∘∘∘∘ ∘∘∘∘	RUNWAY THRESHOLD LIGHTS
1080	SAME	TOPOGRAPHY (SOURCE)
• S2	∘ S2	2–BOX SAVASI
SS	SAME	SANITARY SEWER
> > > >	SAME	UNUSUABLE RUNWAY MARKING
W	SAME	WATER MAIN
		DRAINAGE STRUCTURES
		AREA LIGHTS
		BEACON LIGHT
■■	■■	FUEL PUMPS
		POWER POLE



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

RUNWAY DATA

ITEM	RUNWAY 5/23 EXISTING	RUNWAY 5/23 ULTIMATE	RUNWAY 17/35 EXISTING	RUNWAY 17/35 ULTIMATE	RUNWAY 13/31 EXISTING	RUNWAY 13/31 ULTIMATE
APPROACH CATEGORY/DESIGN GROUP	B–II	B–II	A–I	A–I	A–I	A–I
RUNWAY LENGTH/WIDTH	5100'X75'	5100'X75'	2901'X60'	2901'X60'	2260'X250'	2260'X250'
RUNWAY MARKINGS	N–P	N–P	N–P	N–P	N/A	N/A
RUNWAY LIGHTING	MIRL	MIRL	MIRL	MIRL	NONE	NONE
PAVEMENT MATERIAL	CONC	CONC	CONC	CONC	TURF	TURF
PAVEMENT STRENGTH (000)	30	30	12.5	12.5	N/A	N/A
RUNWAY SAFETY AREA (RSA) LENGTH	5700	5700	3501	3501	2260	2130
RUNWAY SAFETY AREA (RSA) WIDTH	150	150	150	150	250	250
R/W OBJECT FREE AREA (OFA) LENGTH	5700	5700	3381	3381	2260	2130
R/W OBJECT FREE AREA (OFA) WIDTH	500	500	400	400	250	250
OBSTACLE FREE ZONE (OFZ) LENGTH	5500	5500'	3301	3301	2260	2130
OBSTACLE FREE ZONE (OFZ) WIDTH	400	400	250	250	250	250
TAXIWAY WIDTH	35'	35'	35'	35'	–	–
TAXIWAY LIGHTING	MITL	MITL	MITL	MITL	NONE	NONE
EFFECTIVE GRADIENT %	0.10	0.10	0.21	0.21	–	–

ITEM	5	23	5	23	17	35	17	35	13	31	13	31
APPROACH SURFACE SLOPE	34:1	20:1	34:1	34:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
ELECTRONIC NAV AIDS / GPS ①	VOR/DME GPS	VOR/DME –	VOR/DME GPS	VOR/DME GPS	VOR/DME NDB/GPS	VOR/DME	VOR/DME GPS	VOR/DME GPS	–	–	–	–
VISUAL APPROACH AIDS	PLASI	PLASI	PLASI	PLASI	SAVASI	SAVASI	SAVASI	SAVASI	NONE	NONE	NONE	NONE
APPROACH VISIBILITY MINIMUMS	1M 600'	1M 700'	1M 400'	1M 400'	1M 600'	1M 700'	1M 500'	1M 500'	– –	– –	– –	– –
TOUCHDOWN ZONE ELEVATION	1042.1	1043.0	1042.1	1045.0	1044.9	1040.0	1044.9	1040.0	1042.5	1042.1	1042.5	1042.1
TAKEOFF RUN AVAILABLE (TORA)	5100	5100	5100	5100	2901	2901	2901	2901	–	–	–	–
TAKEOFF DISTANCE AVAILABLE (TODA)	5100	5100	5100	5100	2901	2901	2901	2901	–	–	–	–
ACCEL/STOP DISTANCE AVAILABLE (ASDA)	5100	5100	5100	5100	2901	2901	2901	2901	–	–	–	–
LANDING DISTANCE AVAILABLE (LDA)	4100	5100	4100	5100	2901	2901	2901	2901	–	–	–	–

① VOR/DME–A, 700–1 MILE – FOR CIRCLING ONLY, NOT STRAIGHT–IN APPROACH

AS-BUILT
CONDITIONAL APPROVAL

The approval indicated by my signature is given subject to the condition that the items identified in our approval letter dated 4/13/12 may not be undertaken without prior written environmental approval by the Federal Aviation Administration. This approval action does not imply any commitment for Federal funding, or approval of future structures requiring notice under FAR Part 77.

Airport Planning Engineer — Date 4/13/12
FAA Central Region

CERTIFICATION

LICENSED PROFESSIONAL ENGINEER — C. PETER CRAWFORD — 8152 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

C. Peter Crawford, P.E. — DATE 2-10-12
My license renewal date is December 31, 2013

Pages or sheets covered by this seal:
SHEETS 1 – 9

APPROVAL BLOCK

CITY OF RED OAK, IOWA — DATE 2/10/12

NO.	REVISIONS	BY	APPD.	DATE
1	AS–BUILT PROJECT 3–19–0077–05&06			1/10
2	AS–BUILT PROJECT 3–19–0077–07&08			1/11
3	AS–BUILT PROJECT 3–19–0077–09 & 10			2/11

DRWN BY	DATE	APPROVED BY	DATE
TMB		CPC	

PREPARED BY:
JFSCO ENGINEERING, P.C.
CONSULTING ENGINEERS

RED OAK MUNICIPAL AIRPORT
RED OAK, IOWA

AIRPORT LAYOUT PLAN