

RUNWAY DATA TABLE			
	RUNWAY 16/34		
	EXISTING	16/34	FUTURE
RUNWAY LENGTH & WIDTH	4,002' x 100'		SAME
RUNWAY GRADIENT	0.14%		SAME
RUNWAY TYPE	OTHER THAN-UTILITY		SAME
PAVEMENT TYPE	ASPHALT		SAME
PAVEMENT STRENGTH	30,000 LBS. SWG 57,000 LBS. DWG		SAME
RUNWAY LIGHTING	MIRL		SAME
RUNWAY MARKING	NON-PRECISION		SAME
14 CFR PART 77 APPROACH CATEGORY	16=20:1 34=34:1		SAME
APPROACH TYPE	NON-PRECISION		SAME
RUNWAY DESIGN CODE (RDC)/RUNWAY REFERENCE CODE (RRC)	B-II-5000		SAME
RUNWAY NAVAIDS	PAPIS		PAPIS, REILs
TYPE OF AERONAUTICAL SURVEY	VERTICALLY GUIDED		SAME
VISIBILITY MINIMUMS	1 MILE		SAME
WIND COVERAGE	98.37%		SAME

FAA RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS				
APPROACH RPZ				
EXISTING & FUTURE	RUNWAY	LENGTH		OUTER WIDTH
		BASE	END	
EXISTING & FUTURE	16	500'	1,000'	700'
	34	500'	1,000'	700'

MNDOT CLEAR ZONE DIMENSIONS				
EXISTING & FUTURE	RUNWAY	LENGTH		OUTER WIDTH
		BASE	END	
EXISTING & FUTURE	16	500'	1,700'	840'
	34	500'	1,700'	1,010'

RUNWAY SAFETY AREA (RSA)		
RUNWAY	EXISTING & FUTURE	
	WIDTH	LENGTH BEYOND RUNWAY END
16/34	150'	300'

RUNWAY OBJECT FREE AREA (ROFA)		
RUNWAY	EXISTING & FUTURE	
	WIDTH	LENGTH BEYOND RUNWAY END
16/34	500'	300'

RUNWAY OBSTACLE FREE ZONE (ROFZ)		
RUNWAY	EXISTING & FUTURE	
	WIDTH	LENGTH BEYOND RUNWAY END
16/34	400'	200'

RUNWAY END COORDINATES		
RUNWAY	EXISTING & FUTURE	
	LATITUDE	LONGITUDE
16	44° 51' 44.52" N	93° 02' 06.64" W
34	44° 51' 06.85" N	93° 01' 49.89" W

RUNWAY END STATION AND ELEVATION		
RUNWAY	EXISTING & FUTURE	
	STATION	ELEVATION
16	100+00	820.8'
34	140+02	818.8'

TOUCHDOWN ZONE (TDZ) LIMITS			
RUNWAY	EXISTING & FUTURE		
	TDZ LIMITS	STATION LOCATION	ELEVATION
16	100+00 TO 130+00	100+33	820.8'
34	140+02 TO 110+02	117+06	819.5'

AIRPORT REFERENCE POINT (ARP)		
EXISTING & ULTIMATE		
LATITUDE	44° 51' 25.68" N	
LONGITUDE	93° 01' 58.27" W	

DEVIATION FROM FAA DESIGN STANDARDS			
APPROVAL DATE	CASE NUMBER	MODIFICATION	DESCRIPTION
			NONE REQUIRED

OBSTACLE FREE ZONE (OFZ) OBJECT PENETRATIONS			
KEY	NONE		
	DESCRIPTION	PENETRATION	ELEVATION

FAA APDS SURFACE DIMENSIONS				
EXISTING & FUTURE 16/34	APDS SURFACE	LENGTH		OUTER WIDTH
		BASE	END	
EXISTING & FUTURE 16/34	ROW 3 20:1	400'	10,000'	3,800'
	ROW 6 40:1	1,000'	10,200'	6,466'

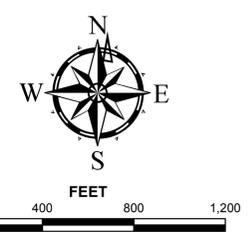
TAXIWAY/TAXILANE DATA TABLE		
	EXISTING	FUTURE
TAXIWAY WIDTH	50'	35'
TAXIWAY SAFETY AREA WIDTH	79'	SAME
TAXIWAY OBJECT FREE AREA WIDTH	131'	SAME
TAXIWAY EDGE SAFETY MARGIN	7.5'	SAME
TAXIWAY SHOULDER WIDTH	10'	SAME
TAXILANE WIDTH	20'	TDG 1 25'/TDG 2 35'
TAXILANE OBJECT FREE AREA WIDTH	79'	TDG 1 79'/TDG 2 115'

CRITICAL AIRCRAFT DATA TABLE		
RUNWAY 16/34 EXISTING & FUTURE		
ARC	B-II	
RUNWAY STRENGTH	30,000 LBS. SWG 57,000 LBS. DWG	
APPROACH SPEED	91 - < 121 KNOTS	
WINGSPAN	49' - < 79'	
TAIL HEIGHT	20' - < 30'	

DECLARED DISTANCES		
	EXISTING	RUNWAY 16 FUTURE
TAKEOFF RUN AVAILABLE (TORA)	4,002'	4,002'
TAKEOFF DISTANCE AVAILABLE (TODA)	4,002'	4,002'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	4,002'	4,302'
LANDING DISTANCE AVAILABLE (LDA)	4,002'	4,002'

	EXISTING	RUNWAY 34 FUTURE
TAKEOFF RUN AVAILABLE (TORA)	4,002'	4,002'
TAKEOFF DISTANCE AVAILABLE (TODA)	4,002'	4,002'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	4,002'	4,122'
LANDING DISTANCE AVAILABLE (LDA)	4,002'	4,002'

- EXISTING LEGEND:**
- AIRPORT PROPERTY
 - AVIGATION EASEMENTS
 - RUNWAY PROTECTION ZONE (RPZ)
 - MNDOT CLEAR ZONE
 - BUILDING RESTRICTION LINE (BRL)
 - RUNWAY SAFETY AREA (RSA)
 - RUNWAY OBJECT FREE AREA (ROFA)
 - OBSTACLE FREE ZONE (OFZ)
 - APPROACH SURFACE
 - LOCALIZER CRITICAL AREA
 - PAPI OBSTACLE CLEARANCE SLOPE (OCS)
 - AIRPORT REFERENCE POINT (ARP)
 - GENERAL DRAINAGE
 - SURVEY MONUMENT
 - AWOS
 - BEACON
 - PAPI
 - WIND CONE
 - FENCE 6'
- FUTURE LEGEND:**
- PROPERTY ACQUISITION
 - AVIGATION EASEMENTS
 - BUILDING
 - AIRCRAFT PAVEMENT
 - PAVEMENT REMOVAL
 - VEHICLE PAVEMENT
 - RUNWAY SAFETY AREA (RSA)
 - RUNWAY OBJECT FREE AREA (ROFA)
 - AWOS
 - WIND CONE
 - TIEDOWN
 - REIL'S



MAGNETIC DECLINATION 0.16° E CHANGING BY 0.11° W/YR SEPTEMBER 15, 2014 SOURCE: NGDC DECLINATION EPOCH YEAR=2010



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SILAS FRANKLIN, PE
REG. NO. 48888
DATE: MAY 15, 2015



DATE	BY	CHANGE

BOLTON & MENK, INC.
PROJECT NO. T51-105382
DATE: MAY 15, 2015
DESIGNED BY: MRU

AIRPORT LAYOUT PLAN