

DEVELOPMENT PROGRAM	
PHASE I DEVELOPMENT (0-5 YEARS)	[Yellow Box]
PHASE II DEVELOPMENT (6-10 YEARS)	[Red Box]
PHASE III DEVELOPMENT (11-20 YEARS)	[Blue Box]

RUNWAY DATA TABLE				
DESCRIPTION	RUNWAY 14		RUNWAY 32	
	EXISTING	PROPOSED	EXISTING	PROPOSED
RUNWAY END COORDINATES (NAD 83)				
LATITUDE	39° 08' 55.49" N	SAME	39° 08' 17.90" N	SAME
LONGITUDE	78° 08' 05.20" W	SAME	78° 08' 14.80" W	SAME
RUNWAY BEARING (TRUE)	N46° 27' 03.3" W	SAME	S46° 27' 03.3" E	SAME
APPROACH MINIMUMS	1 MILE	3/4 MILE	1/2 MILE	SAME
FAR PART 77 CATEGORY	NON-PRECISION	NON-PRECISION	PRECISION	PRECISION
APPROACH SURFACE SLOPE	34.1	SAME	50.1	SAME
RUNWAY LENGTH	5,498'	5,500'	5,498'	5,500'
RUNWAY WIDTH	100'	SAME	100'	SAME
USABLE RUNWAY LENGTH	5,498'	5,500'	5,498'	5,500'
SURFACE TYPE	ASPHALT	SAME	ASPHALT	SAME
PAVEMENT STRENGTH				
SINGLE WHEEL	75,000 LBS	SAME	75,000 LBS	SAME
DUAL WHEEL	150,000 LBS	SAME	150,000 LBS	SAME
RUNWAY LIGHTING	HIRL	SAME	HIRL	SAME
RUNWAY MARKING	NON-PRECISION	SAME	PRECISION	SAME
EFFECTIVE GRADIENT (%)	0.46	SAME	0.46	SAME
MAX. GRADE WITHIN RWY LENGTH	0.71	SAME	0.71	SAME
LINE OF SIGHT VIOLATIONS	NONE	NONE	NONE	NONE
WIND COVERAGE (%)	86.06	SAME	95.13	SAME
VISUAL APPROACH AIDS	REIL, 28 PAPI	REIL, ODALS, 48 PAPI	MALS, 28 PAPI, T.H. LIGHTS	SAME, 48 PAPI
INSTRUMENT APPROACH AIDS	GPS	GPS, ODALS	ILS, GPS	SAME
AIRPORT REFERENCE CODE (ARC)	C-II	< 150,000 LBS	C-II	< 150,000 LBS
CRITICAL AIRCRAFT (SEE NOTE 9)	HAWKER 800	GULFSTREAM 500/550	HAWKER 800	GULFSTREAM 500/550
RUNWAY SAFETY AREA (RSA)				
LENGTH BEYOND RUNWAY	1,000'	SAME	1,000'	SAME
WIDTH	500'	SAME	500'	SAME
RUNWAY OBJECT FREE AREA (ROFA)				
LENGTH BEYOND RUNWAY	1,000'	SAME	900' TO 1,000' (MOD)	SAME
WIDTH	800'	SAME	680' TO 800' (MOD)	SAME
OBSTACLE FREE ZONE (OFZ)	400' X 5,898'	400' X 5,900'	400' X 5,898'	400' X 5,900'
RUNWAY END ELEVATIONS (MSL)	726.27	SAME	700.81	SAME

AIRPORT DATA TABLE			
AIRPORT DATA	EXISTING	PROPOSED	
AIRPORT ELEVATION (MSL)	726.2'	SAME	
AIRPORT REFERENCE POINT (NAD 83)			
LATITUDE	39° 08' 36.68" N	SAME	
LONGITUDE	78° 08' 40.00" W	SAME	
MEAN MAX. TEMPERATURE OF HOTTEST MONTH	88°	SAME	
WIND COVERAGE (10.5 KNOTS)			
VFR	95.22%	SAME	
IFR	98.81%	SAME	
MAGNETIC VARIATION (NOVEMBER 2009)	10° 3' WEST		
AIRPORT REFERENCE CODE (SEE NOTE 9)	C-II	D-III	
NPIAS SERVICE LEVEL/STATE ROLE	GA/ GA REGIONAL	SAME	
TAXIWAY LIGHTING	MITL	SAME	
AIRPORT NAVAIDS	MIRL BEACON, REILS, 28 PAPI, ILS, MALS, RWY 22, GPS	SAME + HIRL, 48 PAPI, ODALS, RWY 14	

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
[Symbol]	RUNWAY SAFETY AREA (RSA)	[Symbol]
[Symbol]	RUNWAY OBJECT FREE AREA (ROFA)	[Symbol]
[Symbol]	RUNWAY PROTECTION ZONE (RPZ)	[Symbol]
[Symbol]	TAXIWAY OBJECT FREE AREA (TOFA)	[Symbol]
[Symbol]	BUILDING RESTRICTION LINE (BRL)	[Symbol]
[Symbol]	PRECISION OBSTACLE FREE ZONE	[Symbol]
[Symbol]	EDGE OF PAVEMENT	[Symbol]
[Symbol]	AIRPORT PROPERTY LINE	[Symbol]
[Symbol]	AVIGATION EASEMENT	[Symbol]
[Symbol]	R.O.W. ACCESS BY EASEMENT	[Symbol]
[Symbol]	APPROACH SURFACE	[Symbol]
[Symbol]	GLIDESLOPE CRITICAL AREA	[Symbol]
[Symbol]	LOCALIZER CRITICAL AREA	[Symbol]
[Symbol]	AIRPORT REFERENCE POINT	[Symbol]
[Symbol]	BUILDINGS	[Symbol]
[Symbol]	FENCE	[Symbol]
[Symbol]	DEMOLITION	[Symbol]
[Symbol]	WIND CONE/SEGMENTED CIRCLE	[Symbol]
[Symbol]	COMPASS ROSE	[Symbol]
[Symbol]	HOLD LINE	[Symbol]
[Symbol]	ROTATING BEACON	[Symbol]
[Symbol]	PAVEMENT HATCH	[Symbol]
[Symbol]	WETLANDS (APPROX. LOCATION, JD EXPIRED)	[Symbol]
[Symbol]	WETLANDS (JD #2008-1979, ISSUED 07-21-08)	[Symbol]

- NOTES:**
- FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF FUTURE FACILITIES DEPICTED DURING THE PRELIMINARY DESIGN PHASE. THE AIRPORT OWNER IS REQUIRED TO RESUBMIT FOR APPROVAL THE FINAL LOCATIONS, HEIGHTS AND EXTERIOR FINISH OF STRUCTURES. FAA'S CONCERN IS OBSTRUCTIONS, IMPACT ON ELECTRONIC AIDS OR ADVERSE EFFECTS ON CONTROLLER VIEW OF AIRCRAFT APPROACH AND GROUND MOVEMENT AREAS WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY OR UTILITY OF THE AIRPORT.
  - CONTOURS ARE SHOWN IN 5' INTERVALS.
  - ALL COORDINATES ARE BASED IN NAD 83.
  - ALL ELEVATIONS ARE IN FEET MEAN ABOVE SEA LEVEL. (NAVD 88)
  - THERE ARE NO KNOWN EXISTING OFZ PENETRATIONS.
  - NOT USED.
  - NOT USED.
  - RUNWAY 14 HOLD APRONS ARE GENERALLY SIZED TO ACCOMMODATE 2 G-IV AIRCRAFT. HOWEVER, ACTUAL NEED FOR AND SIZE OF HOLD APRONS SHALL BE EVALUATED ONCE NORTHEAST SIDE DEVELOPMENT HAS OCCURRED AND ACTUAL AIRCRAFT OPERATIONAL LEVELS AND FLEET MIX ARE BETTER DEFINED.
  - AT THE TIME OF COMPLETION OF THE ALP, DATA SUPPORTED BUT DID NOT FULLY JUSTIFY CHANGING THE ARC FROM C-II TO D-III. HOWEVER, TO ENSURE THAT FUTURE DEVELOPMENT DOES NOT PRECLUDE THE CHANGE, THE ALP REFLECTS DESIGN CHARACTERISTICS FOR AN ARC OF D-III. EACH PROJECT SHOULD BE EVALUATED AT THE BEGINNING OF DESIGN TO DETERMINE WHAT DESIGN ARC SHOULD BE INCORPORATED.

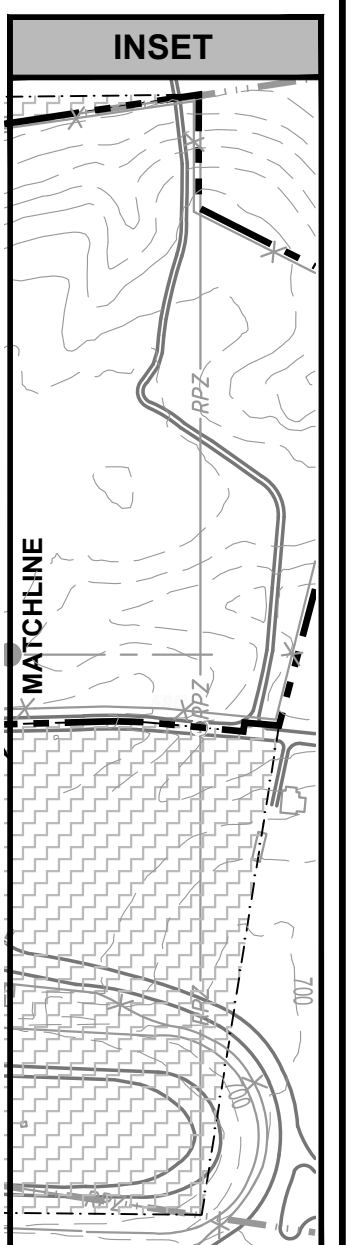
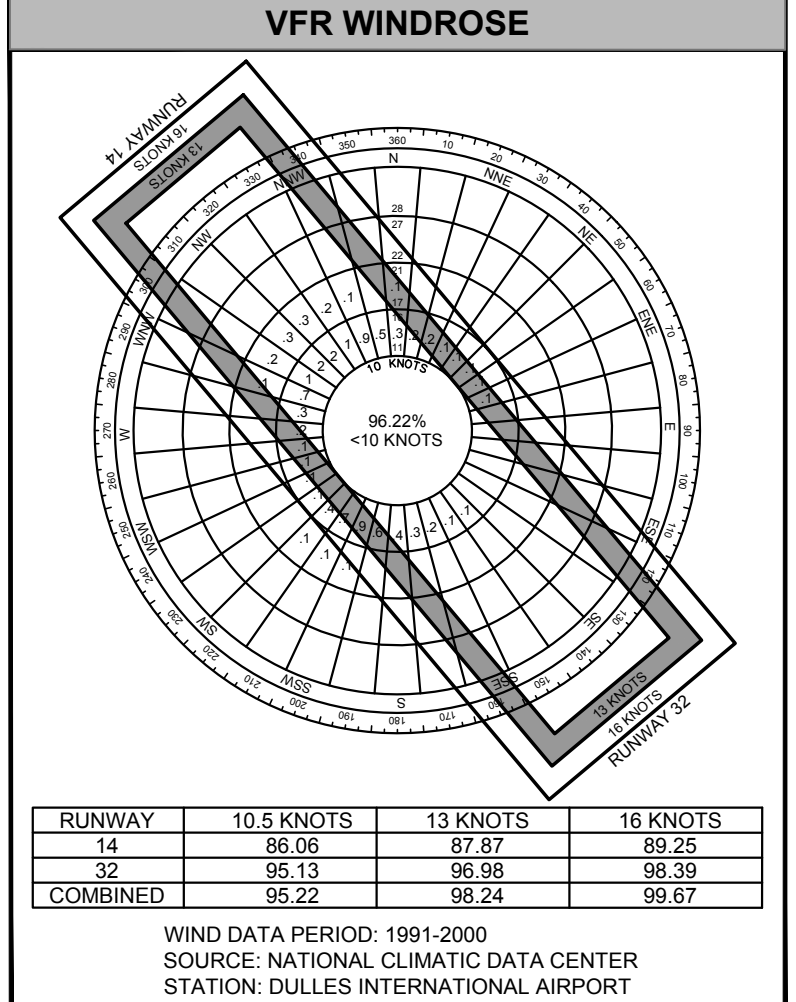
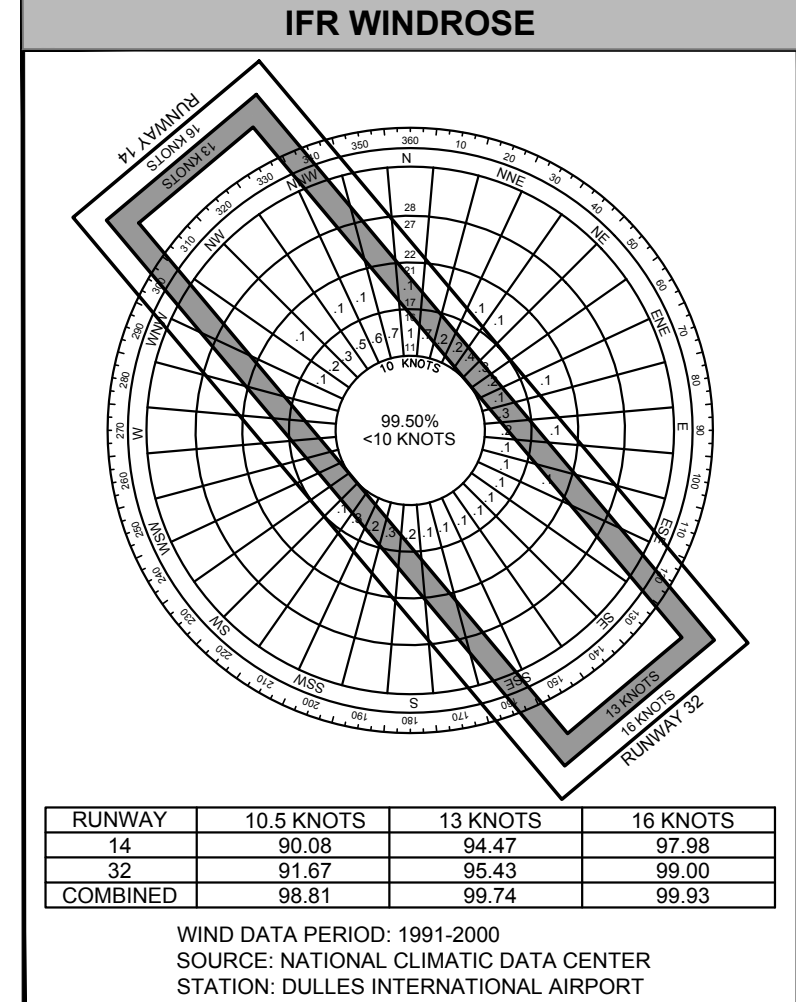
FACILITIES TABLE					
#	FACILITY NAME	TOP ELEV.	#	FACILITY NAME	TOP ELEV.
1	TERMINAL BUILDING	744' MSL	15	AIRFIELD MAINTENANCE BUILDING	723' MSL
2	OPEN SPAN HANGAR	748' MSL	16	RELOCATED CAP HANGAR	BELOW PART 77
3	FUEL TANKS (ABOVE GROUND)	720' MSL	17	CORPORATE HANGARS (PROPOSED)	BELOW PART 77
4	AIRPORT BEACON	742' MSL	18	CORPORATE HANGARS (PROPOSED)	BELOW PART 77
5	OPEN SPAN HANGAR	744' MSL	19	GLIDE SLOPE ANTENNA	39° 08' 28.55" N LAT 78° 06' 20.48" W LONG
6	T-HANGARS (44 UNITS)	728' MSL	20	LOCALIZER	39° 09' 04.7" N LAT 78° 08' 17.6" W LONG
7	OPEN SPAN HANGARS	725' MSL	21	LOCALIZER SHELTER	
8	OPEN SPAN HANGARS	734' MSL	22	CORPORATE HANGARS (2)	745' MSL
9	OPEN SPAN HANGARS	730' MSL	23	REPLACEMENT TERMINAL BUILDING	BELOW PART 77
10	OPEN SPAN HANGARS	737' MSL			
11	OPEN SPAN HANGARS	742' MSL			
12	NOT USED	N/A			
13	AWOS	39° 08' 28.05" N LAT 78° 08' 20.66" W LONG	732' MSL		
14	ELECTRICAL VAULT	735' MSL			

MODIFICATIONS OF DESIGN STANDARDS					
NO.	STANDARD MODIFIED	FAA STANDARDS	EXISTING CONDITIONS	PROPOSED ACTION	DATE APPROVED
1	RW/TW SEPARATION	400'	300'	RELOCATE TAXIWAY A TO 400'	04/02/1991
2	VICTORY LANE LOCATED IN ROFA	NO ROADS IN ROFA	ROAD IN ROFA	MODIFICATION OF STANDARD	05/23/05

**FEDERAL AVIATION ADMINISTRATION**  
 SIGNED: CHAD CARPER 02/08/2018  
 APPROVED DATE

**VIRGINIA DEPARTMENT OF AVIATION**  
 SIGNED: S. SCOTT DENNY 01/28/2018  
 APPROVED DATE

**WINCHESTER REGIONAL AIRPORT AUTHORITY**  
 SIGNED: SERENA MANUEL 01/02/2018  
 APPROVED DATE



**AIRPORT LAYOUT PLAN**  
**WINCHESTER REGIONAL AIRPORT**  
**WINCHESTER, VIRGINIA**

**DELTA AIRPORT CONSULTANTS, INC.**  
 www.deltairport.com

**SHEET 1 OF 1**

**DRAWN BY:** MJH **SCALE:** 1"=300'  
**CHECKED BY:** JCL **DATE:** JULY 2005

DRAWING: OKV/ALP 09 - Final 7-23-18.dwg LAYOUT: 2436 0000  
 DESIGNED: MANSOUR, 02/08/2018 09:25:56 AM