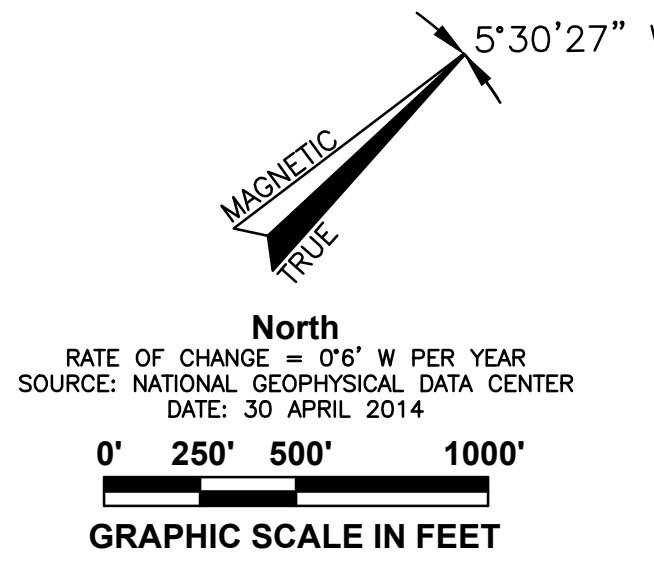
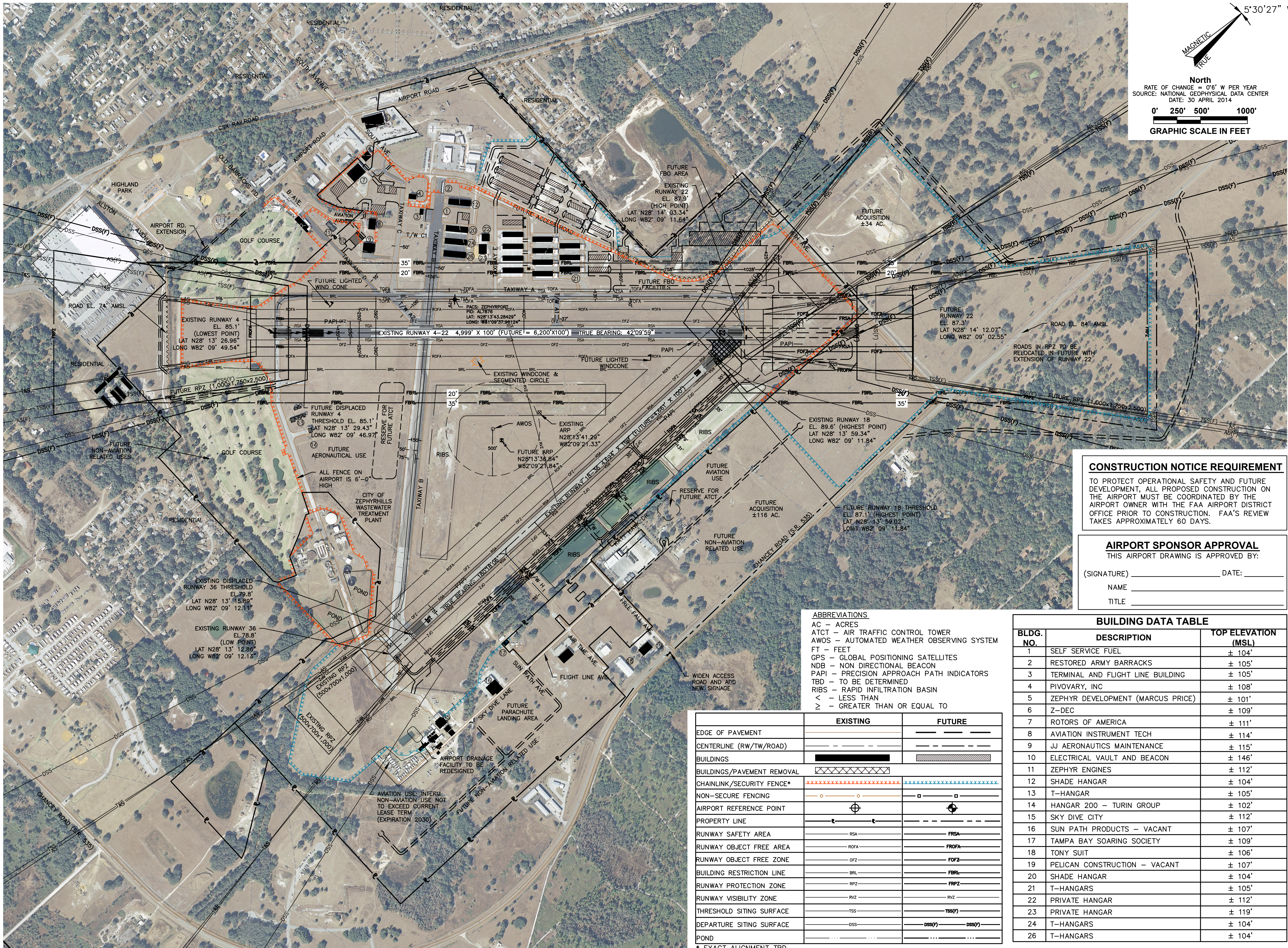


V:\2011\2011.017.01 - ZPH - ALE Update and Runway Study\2011.017.01 - CAD\1101701003A1P.dwg 2/17/2010 12:00 PM



AVCON
AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

ZEPHYRHILLS MUNICIPAL AIRPORT

AIRPORT LAYOUT PLAN UPDATE AND EXHIBIT "A" PROPERTY MAP

AIRPORT LAYOUT PLAN

CONSTRUCTION NOTICE REQUIREMENT
TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE FAA AIRPORT DISTRICT OFFICE PRIOR TO CONSTRUCTION. FAA'S REVIEW TAKES APPROXIMATELY 60 DAYS.

AIRPORT SPONSOR APPROVAL
THIS AIRPORT DRAWING IS APPROVED BY:
(SIGNATURE) _____ DATE: _____
NAME _____
TITLE _____

ABBREVIATIONS
AC - ACRES
ATCT - AIR TRAFFIC CONTROL TOWER
AWOS - AUTOMATED WEATHER OBSERVING SYSTEM
FT - FEET
GPS - GLOBAL POSITIONING SATELLITES
NDB - NON DIRECTIONAL BEACON
PAPI - PRECISION APPROACH PATH INDICATORS
TBD - TO BE DETERMINED
RIBS - RAPID INFILTRATION BASIN
< - LESS THAN
≥ - GREATER THAN OR EQUAL TO

	EXISTING	FUTURE
EDGE OF PAVEMENT	---	---
CENTERLINE (RW/TW/ROAD)	---	---
BUILDINGS	█	█
BUILDINGS/PAVEMENT REMOVAL	XXXXXX	XXXXXX
CHAINLINK/SECURITY FENCE*	-----	-----
NON-SECURE FENCING	o-----o	o-----o
AIRPORT REFERENCE POINT	⊕	⊕
PROPERTY LINE	---	---
RUNWAY SAFETY AREA	---RSA---	---FRSA---
RUNWAY OBJECT FREE AREA	---ROFA---	---PROFA---
RUNWAY OBJECT FREE ZONE	---OFZ---	---FOFZ---
BUILDING RESTRICTION LINE	---BRL---	---FBRL---
RUNWAY PROTECTION ZONE	---RPZ---	---FRPZ---
RUNWAY VISIBILITY ZONE	---RVZ---	---FRVZ---
THRESHOLD SITING SURFACE	---TSS---	---TSS(F)---
DEPARTURE SITING SURFACE	---DSS---	---DSS(F)---
POND	~~~~~	~~~~~

* EXACT ALIGNMENT TBD

BLDG. NO.	DESCRIPTION	TOP ELEVATION (MSL)
1	SELF SERVICE FUEL	± 104'
2	RESTORED ARMY BARRACKS	± 105'
3	TERMINAL AND FLIGHT LINE BUILDING	± 105'
4	PIVOVARY, INC	± 108'
5	ZEPHYR DEVELOPMENT (MARCUS PRICE)	± 101'
6	Z-DEC	± 109'
7	ROTORS OF AMERICA	± 111'
8	AVIATION INSTRUMENT TECH	± 114'
9	JJ AERONAUTICS MAINTENANCE	± 115'
10	ELECTRICAL VAULT AND BEACON	± 146'
11	ZEPHYR ENGINES	± 112'
12	SHADE HANGAR	± 104'
13	T-HANGAR	± 105'
14	HANGAR 200 - TURIN GROUP	± 102'
15	SKY DIVE CITY	± 112'
16	SUN PATH PRODUCTS - VACANT	± 107'
17	TAMPA BAY SOARING SOCIETY	± 109'
18	TONY SUIT	± 106'
19	PELICAN CONSTRUCTION - VACANT	± 107'
20	SHADE HANGAR	± 104'
21	T-HANGARS	± 105'
22	PRIVATE HANGAR	± 112'
23	PRIVATE HANGAR	± 119'
24	T-HANGARS	± 104'
26	T-HANGARS	± 104'

ATTENTION:
THIS DOCUMENT CONTAINS PRIVILEGED AND PROPRIETARY INFORMATION, ALL OF WHICH IS EXPRESSLY PROVIDED BY AVCON, INC. FOR USE BY THE INTENDED RECIPIENT, AND FOR A SPECIFIC PURPOSE. WITHOUT THE EXPRESS WRITTEN CONSENT OF AVCON, INC. ANY DISTRIBUTION, REPRODUCTION, OR OTHER USE OF THIS DOCUMENT, IN WHOLE OR IN PART, IS STRICTLY PROHIBITED.

SCALE: GRAPHIC

REVISIONS:			
NO.	DATE	BY	DESCRIPTION

DESIGNED BY: MGS
DRAWN BY: JEA
CHECKED BY: JAK
APPROVED BY: SS
DATE: SEPTEMBER 2014
FAA AIP NO. 3-12-0089-010-2011
FDOT FM NO. 41813919401
AVCON PROJECT NO. 2011.017.01

DRAWING
3

V:\2011\2011.017.01 - ZPH - ALE Update and Runway Study\2011.017.01 - CAD\110101002DATA.dwg 2/17/2010 12:50 PM

RUNWAY DATA TABLE

	RUNWAY 18-36		RUNWAY 4-22	
	EXISTING	FUTURE (RUNWAY 1-19)	EXISTING	FUTURE (RUNWAY 5-23)
RUNWAY LENGTH	4,694 FT	4,661 FT	4,999 FT	6,200 FT
RUNWAY WIDTH	100 FT	SAME	100 FT	SAME
AIRPORT REFERENCE CODE	A-II	A-II	A-II	B-II
CRITICAL AIRCRAFT	DHC-6 TWIN OTTER	SAME	DHC-6 TWIN OTTER	CESSNA CITATION EXCEL
RUNWAY DESIGN CODE (RDC)	A-II-VISUAL	A-II-VISUAL	A-II-VISUAL	B-II-2400
RUNWAY REFERENCE CODE (RRC)	A-II-VISUAL	A-II-VISUAL	A-II-VISUAL	B-II-2400
TRUE BEARING	180° 18' 06"	SAME	42° 09' 59"	SAME
EFFECTIVE GRADIENT (%)	0.19 %	TBD	0.056 %	TBD
RSA DIMENSIONS (RWY END)	150 FT X 300 FT	SAME	150 FT X 300 FT	300 FT X 600 FT
ROFA DIMENSIONS (RWY END)	500 FT X 300 FT	SAME	500 FT X 300 FT	800 FT X 600 FT
OFZ DIMENSIONS (RWY END)	250 FT X 200 FT	SAME	250 FT X 200 FT	300 FT X 200 FT
RUNWAY LIGHTING	HIGH INTENSITY	SAME	MEDIUM INTENSITY	SAME
PAVEMENT STRENGTH:				
SINGLE WHEEL GEAR	29,000 LBS	SAME	30,000 LBS	TBD
DUAL WHEEL GEAR	49,000 LBS	SAME	60,000 LBS	TBD
SURFACE COMPOSITION	ASPHALT	SAME	ASPHALT	SAME
RUNWAY MARKING	NON-PRECISION	NON-PRECISION	NON-PRECISION	GPS LPV PRECISION
RUNWAY EDGE LIGHTING	HIRL	HIRL	MIRL	MIRL
PRIMARY SURFACE (FAR PART 77)	5,354 FT x 500 FT	4,754 FT x 500 FT	5,399 FT x 500 FT	6,600 FT x 1,000 FT
THRESHOLD SITING SURFACE	20:1	20:1	20:1	20:1
OBSTACLE CLEARANCE SURFACE	40:1	40:1	40:1	40:1
RUNWAY PCN	32 F/B/X/T	TBD	NEW: 112 F/C/X/T RECYCLED: 34 F/B/X/T	TBD

	RUNWAY 18		RUNWAY 36		RUNWAY 4		RUNWAY 22	
	EXISTING	FUTURE RUNWAY 19	EXISTING	FUTURE RUNWAY 1	EXISTING	FUTURE RUNWAY 5	EXISTING	FUTURE RUNWAY 23
APPROACH CATEGORY	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	PRECISION	NON-PRECISION	PRECISION
VISIBILITY MINIMUMS	≥ 3/4 MILE	SAME	≥ 1 MILE	SAME	≥ 1 MILE	< ¾ MILE	≥ 1 MILE	< ¾ MILE
APPROACH SURFACE SLOPE	34:1	34:1	34:1	34:1	34:1	50:1	34:1	50:1
RUNWAY END COORDINATES								
LATITUDE (NAD83)	28° 13' 59.34" N	28° 13' 59.02" N	28° 13' 12.86" N	SAME	28° 13' 26.96" N	28° 14' 29.43" N	28° 14' 03.34" N	28° 14' 12.07" N
LONGITUDE (NAD83)	82° 09' 11.84" W	82° 09' 11.84" W	82° 09' 12.13" W	SAME	82° 09' 49.54" W	82° 09' 46.97" W	82° 09' 11.64" W	82° 09' 02.55" W
RUNWAY ELEVATION (NAVD88)	89.6 FT	87.1 FT	78.8 FT	77.3 FT	85.1 FT	85.1 FT	87.9 FT	87.3 FT
TOUCHDOWN ZONE EL. (NAVD88)	88.0 FT	88.0 FT	88.0 FT	SAME	85.0 FT	TBD	89.0 FT	TBD
RUNWAY MARKINGS	NON-PRECISION	SAME	NON-PRECISION	SAME	NON-PRECISION	PRECISION	NON-PRECISION	PRECISION
NAVAIDS	GPS	SAME	GPS	SAME	PAPI, GPS	PAPI, GPS	PAPI, GPS	PAPI, GPS
RUNWAY PROTECTION ZONE:								
INNER WIDTH	500 FT	SAME	500 FT	SAME	500 FT	1,000 FT	500 FT	1,000 FT
OUTER WIDTH	700 FT	SAME	700 FT	SAME	700 FT	1,750 FT	700 FT	1,750 FT
LENGTH	1,000 FT	SAME	1,000 FT	SAME	1,000 FT	2,500 FT	1,000 FT	2,500 FT
ACRES	13.77 AC	13.77 AC	13.77 AC	13.77 AC	13.77 AC	78.91 AC	13.77 AC	78.91 AC
DISPLACED THRESHOLD	260 FT	NONE	307 FT	NONE	NONE	NONE	NONE	NONE
SURVEY REQUIRED FOR MINIMUM	NON-VERT GUIDED	SAME	NON-VERT GUIDED	SAME	NON-VERT GUIDED	VERTICALLY GUIDED	NON-VERT GUIDED	VERTICALLY GUIDED
RUNWAY DEPARTURE SURFACE	YES	SAME	YES	SAME	YES	SAME	YES	SAME

BOTH RUNWAY MEET LINE OF SIGHT CRITERIA

TAXIWAY/TAXILANE DATA TABLE

	RUNWAY 18-36		RUNWAY 4-22	
	EXISTING	FUTURE (RUNWAY 1-19)	EXISTING	FUTURE (RUNWAY 5-23)
TAXIWAY AND TAXILANE WIDTH	N/A	35 FT	50 FT	50 FT
TAXIWAY AND TAXILANE SAFETY AREA WIDTH	N/A	79 FT	79 FT	79 FT
TAXIWAY OBJECT FREE AREA WIDTH	N/A	131 FT	131 FT	131 FT
TAXILANE OBJECT FREE AREA WIDTH	N/A	115 FT	115 FT	115 FT
TAXIWAY AND TAXILANE SEPARATION	N/A	105 FT	105 FT	105 FT
TAXIWAY AND TAXILANE LIGHTING	N/A	MIRL	MITL	MITL

DECLARED DISTANCES TABLE		
	EXISTING	FUTURE
RUNWAY 18 (FUTURE RUNWAY 19)		
TAKE OFF RUN AVAILABLE (TORA)	4,694 FT	4,661 FT
TAKE OFF DISTANCE AVAILABLE (TODA)	4,694 FT	4,661 FT
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	4,694 FT	4,661 FT
LANDING DISTANCE AVAILABLE (LDA)	4,387 FT	4,661 FT
RUNWAY 36 (FUTURE RUNWAY 1)		
TAKE OFF RUN AVAILABLE (TORA)	4,694 FT	4,661 FT
TAKE OFF DISTANCE AVAILABLE (TODA)	4,694 FT	4,661 FT
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	4,694 FT	4,661 FT
LANDING DISTANCE AVAILABLE (LDA)	4,694 FT	4,661 FT
RUNWAY 4 (FUTURE RUNWAY 5)		
TAKE OFF RUN AVAILABLE (TORA)	4,999 FT	6,200 FT
TAKE OFF DISTANCE AVAILABLE (TODA)	4,999 FT	6,200 FT
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	4,999 FT	6,200 FT
LANDING DISTANCE AVAILABLE (LDA)	4,999 FT	5,860 FT
RUNWAY 22 (FUTURE RUNWAY 23)		
TAKE OFF RUN AVAILABLE (TORA)	4,999 FT	6,200 FT
TAKE OFF DISTANCE AVAILABLE (TODA)	4,999 FT	6,200 FT
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	4,999 FT	6,200 FT
LANDING DISTANCE AVAILABLE (LDA)	4,999 FT	6,200 FT

NOTE:

AIRFIELD IS CURRENTLY UNDER CONSTRUCTION. THIS CONSTRUCTION IS REPRESENTED AS "FUTURE" ON THIS AIRPORT LAYOUT PLANS SET.

COORDINATES DATA:

- THE COORDINATE SYSTEM AND PROJECTION FOR AUTOCAD AND GIS FILES FLORIDA STATE PLANE WEST (ZONE 0902), TRANSVERSE MERCATOR, UNITS IN U.S. FEET.
- ALL GEOGRAPHIC COORDINATES ARE NAD83, U.S. FEET.
- VERTICAL DATA ARE NAVD88(91) GENERAL CORRECTION, AMSL, U.S. FEET.

EXISTING DISPLACED THRESHOLDS

RUNWAY 36		
LENGTH	307 FT	
LATITUDE (NAD83)	28° 13' 12.86" N	
LONGITUDE (NAD83)	82° 09' 12.13" W	

FUTURE DISPLACED THRESHOLDS

RUNWAY 4		
LENGTH	340 FT	
LATITUDE (NAD83)	28° 13' 29.43" N	
LONGITUDE (NAD83)	82° 09' 46.97" W	

MODIFICATION TO FAA DESIGN STANDARDS

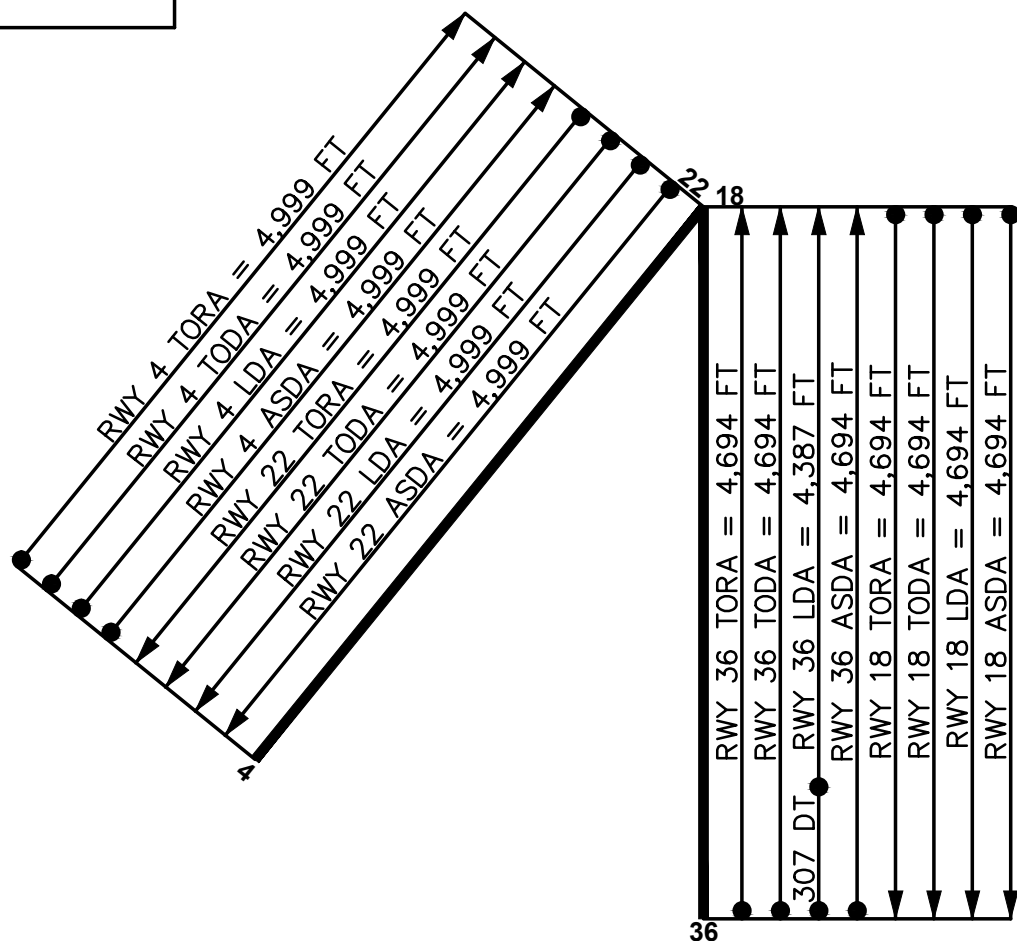
DESCRIPTION	DESIGN STANDARD	AERONAUTICAL STUDY NUMBER	FAA APPROVAL

TAXIWAY DESIGN GROUPS (TDG)

TAXIWAY	TDG
TAXIWAY A	3
TAXIWAY A1	1
TAXIWAY A2	3
TAXIWAY B	3
TAXIWAY C	3
TAXIWAY E	1
TAXIWAY F (FUTURE)	3
TAXIWAY H	2

CONSTRUCTION NOTICE REQUIREMENT

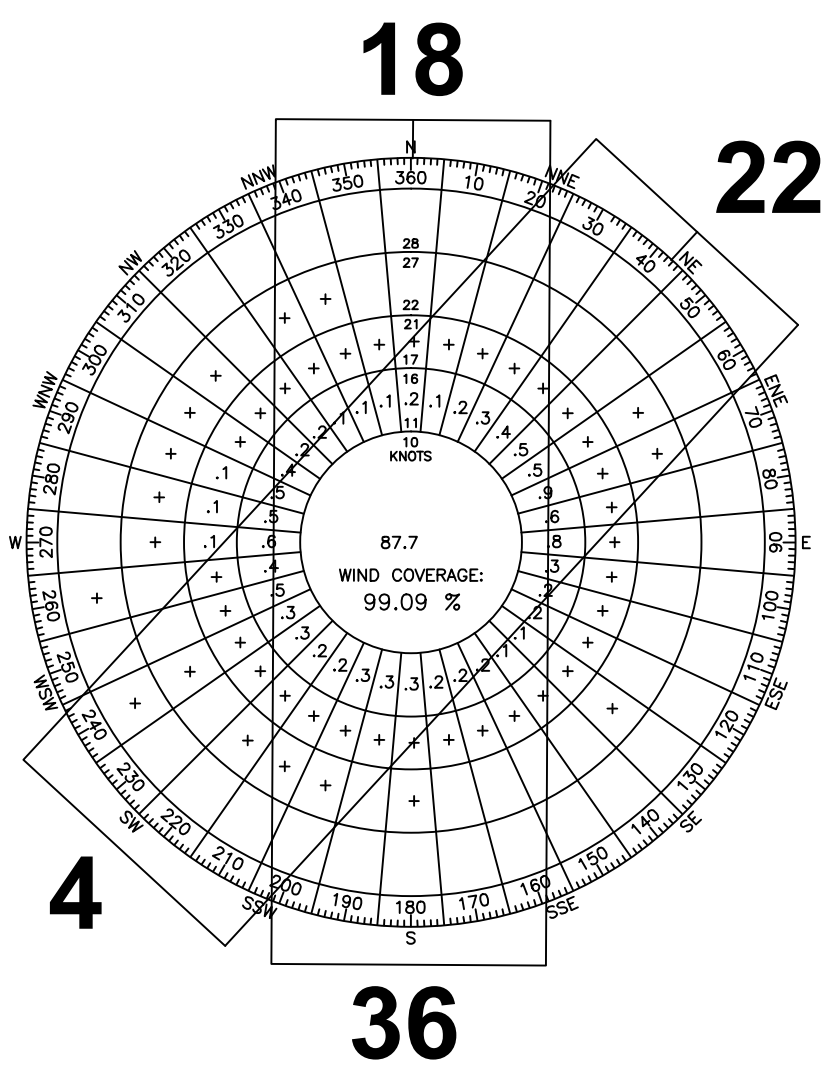
TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE FAA AIRPORTS DISTRICT OFFICE PRIOR TO CONSTRUCTION. FAA'S REVIEW TAKES APPROXIMATELY 60 DAYS.



*BRL IS SHOWN FOR A TYPICAL 20-FOOT BUILDING.

FUTURE BRL IS ALSO SHOWN FOR RUNWAY 4-22 FOR A TYPICAL 35 FOOT BUILDING.

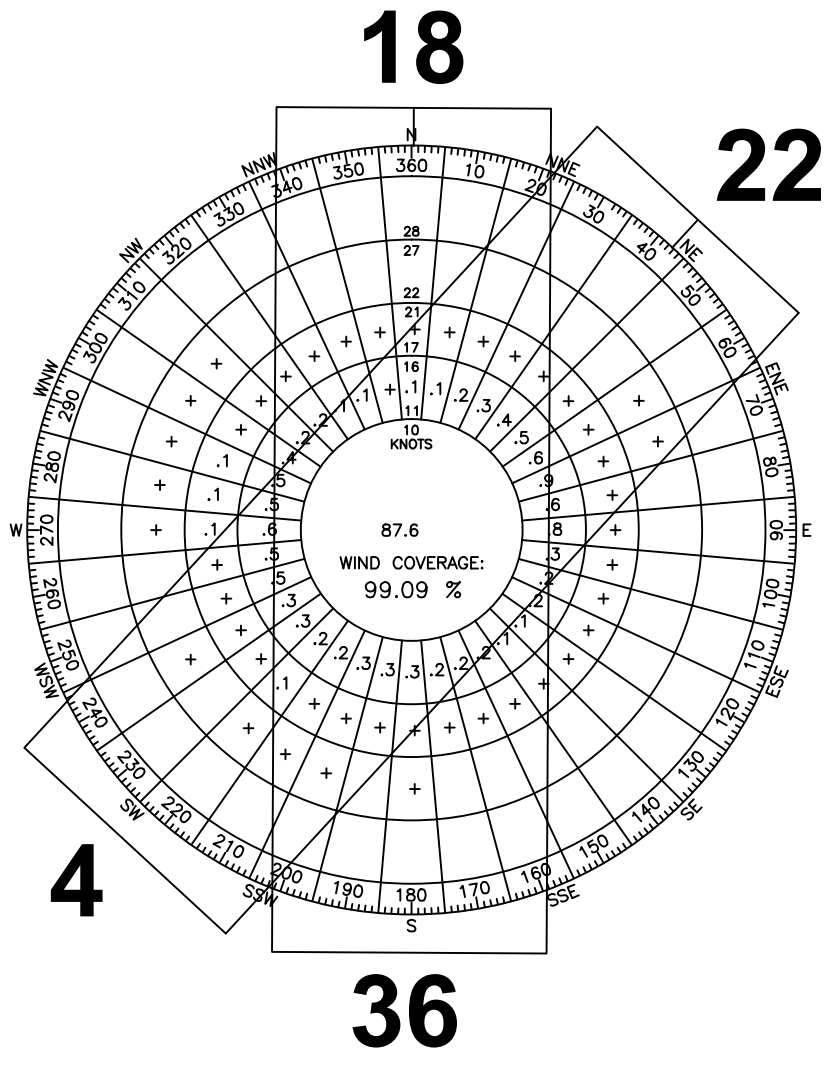
AIRPORT DATA		
CITY: ZEPHYRHILLS	COUNTY: PASCO	STATE: FLORIDA
DESCRIPTION	EXISTING	FUTURE
SERVICE LEVEL (N.P.I.A.S.)	GENERAL AVIATION	GENERAL AVIATION
AIRPORT REFERENCE CODE (ARC)	A-II	B-II
AIRPORT ELEVATION (A.M.S.L.)	90 FT	SAME
MEAN MAX. TEMP. (HOTTEST MONTH)	86° F	SAME
AIRPORT REFERENCE POINT LATITUDE (NAD83)	28° 13' 41.29" N	28° 13' 36.53" N
LONGITUDE	82° 09' 21.33" W	82° 09' 21.84" W
MAGNETIC DECLINATION	5° 30' 27" W	CHANGES 0'6" PER YEAR
AIRPORT IDENTIFIER	ZPH	SAME
SOURCE OF MAGNETIC DECLINATION: NATIONAL GEOPHYSICAL DATA CENTER		
DATE: 30 APRIL 2014		



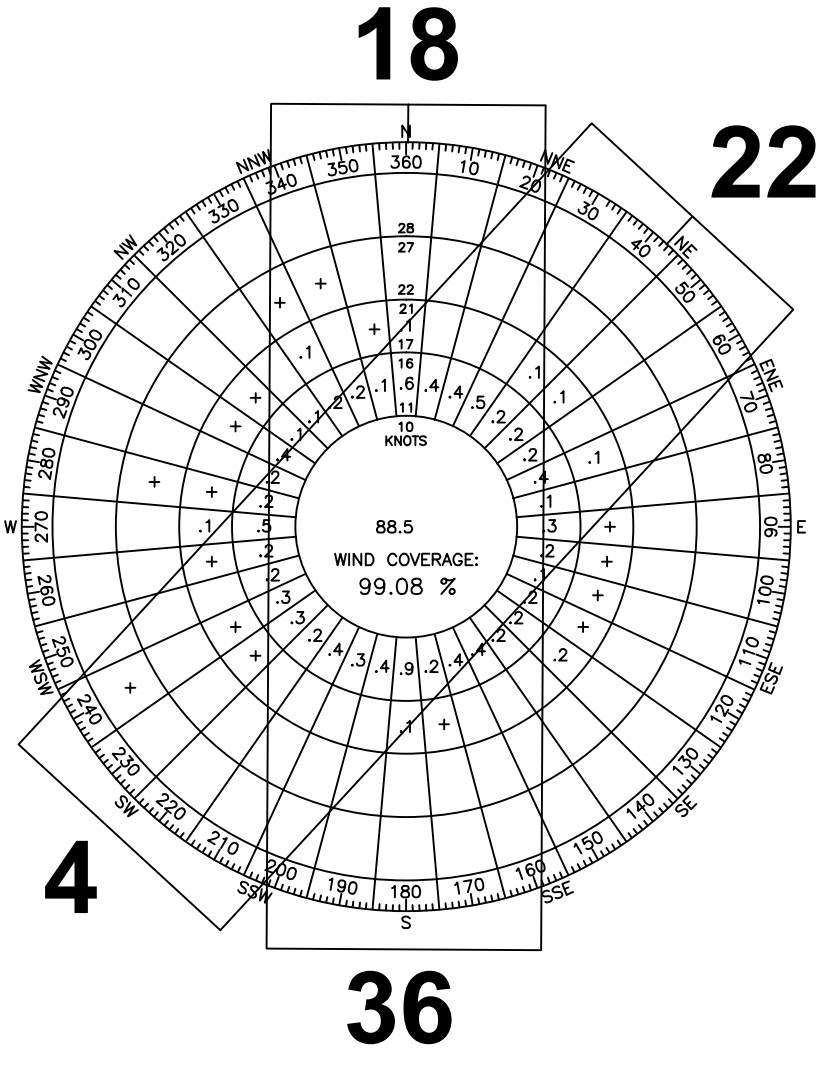
ALL WEATHER WIND COVERAGE		
RUNWAY	10.5 KNOT (12 MPH)	13 KNOT (15 MPH)
18-36	92.65%	96.07%
4-22	95.87%	98.14%
COMBINED	97.28%	99.09%

(+ INDICATES OBSERVED WINDS LESS THAN 0.1%)

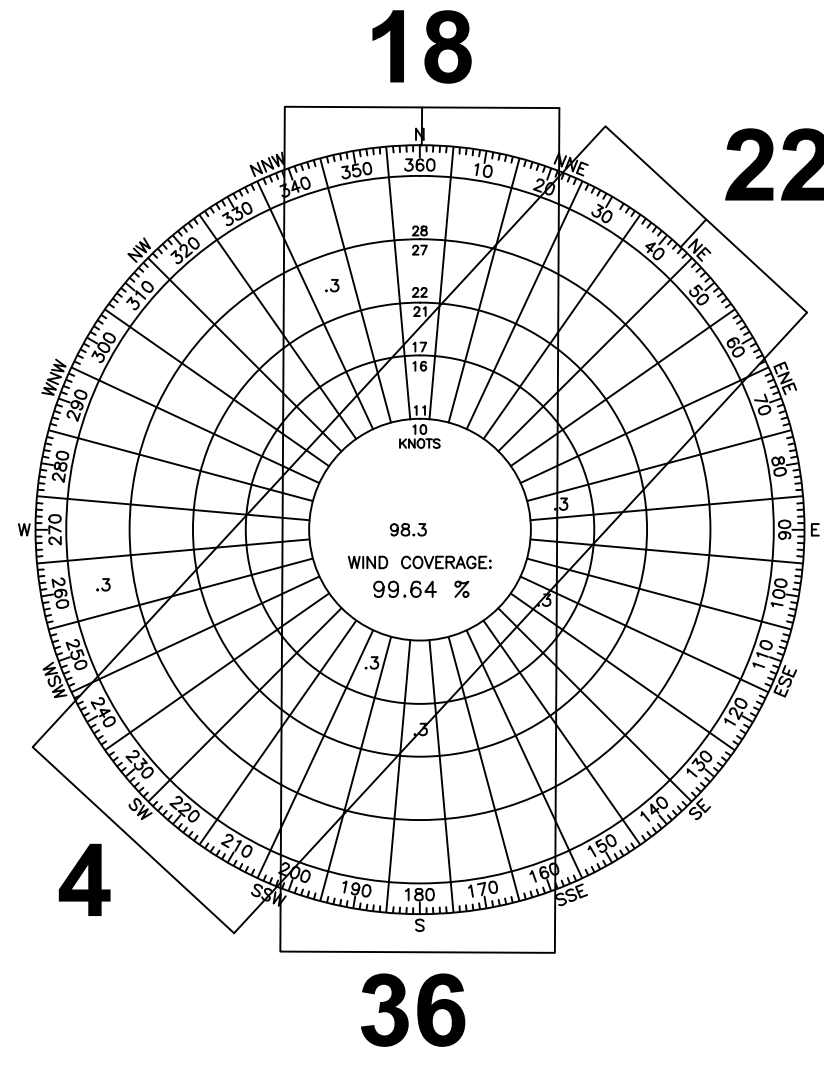
SOURCE: LAKELAND LINDER REGIONAL AIRPORT DATA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL CLIMATIC DATA CENTER
PERIOD: 2000 - 2009



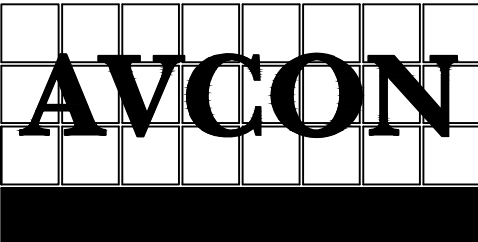
VFR WIND COVERAGE		
RUNWAY	10.5 KNOT (12 MPH)	13 KNOT (15 MPH)
18-36	92.46%	95.98%
4-22	95.86%	98.16%
COMBINED	97.24%	99.09%



IFR WIND COVERAGE VIS. > 0.5 SM		
RUNWAY	10.5 KNOT (12 MPH)	13 KNOT (15 MPH)
18-36	95.37%	97.44%
4-22	95.48%	97.65%
COMBINED	97.81%	99.08%



IFR WIND COVERAGE VIS. < 0.5 SM		
RUNWAY	10.5 KNOT (12 MPH)	13 KNOT (15 MPH)
18-36	99.20%	99.47%
4-22	98.88%	99.14%
COMBINED	99.47%	99.64%



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

ZEPHYRHILLS MUNICIPAL AIRPORT

AIRPORT LAYOUT
PLAN UPDATE AND
EXHIBIT "A"
PROPERTY MAP

DATA SHEET

ATTENTION:

THIS DOCUMENT CONTAINS PRIVILEGED AND PROPRIETARY INFORMATION, ALL OF WHICH IS EXPRESSLY PROVIDED BY AVCON, INC., FOR USE BY THE INTENDED RECIPIENT, AND FOR A SPECIFIC PURPOSE. WITHOUT THE EXPRESS WRITTEN CONSENT OF AVCON, INC. ANY DISTRIBUTION, REPRODUCTION, OR OTHER USE OF THIS DOCUMENT, IN WHOLE OR IN PART, IS STRICTLY PROHIBITED

SCALE: GRAPHIC

REVISIONS:			
NO.	DATE	BY	DESCRIPTION

DESIGNED BY: MGS

DRAWN BY: JEA

CHECKED BY: JAK

APPROVED BY: SS

DATE: SEPTEMBER 2014

FAA AIP NO. 3-12-0089-010-2011

FDOT FM NO. 41813919401

AVCON PROJECT NO. 2011.017.01

DRAWING

2