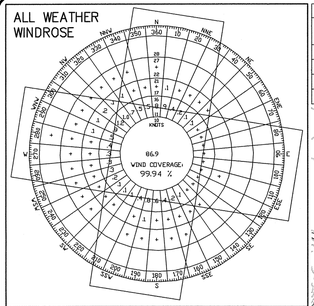
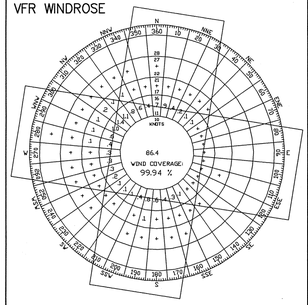
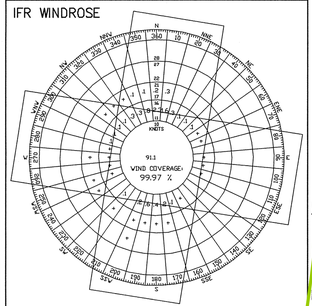
ALL WEATHER WINDROSE



VFR WINDROSE



IFR WINDROSE



Wind Coverage						
	Runway 2–20		Runway 11–29		Both	
	10.5kts	13kts	10.5kts	13kts	10.5kts	13kts
All–Weather	95.24	97.64	93.18	N/A	99.56	N/A
VFR	94.79	97.42	93.25	N/A	99.53	N/A
IFR	99.38	99.7	N/A	N/A	N/A	N/A

Source: National Climatic Data Center Hartford, CT, 2000–2009

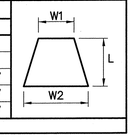
AIRPORT DATA TABLE

Airport Data	Existing
Airport Elevation (MSL)	19'
Airport Reference Point (NAD 83)	Lat: 41° 44' 10.59" N Long: 72° 39' 00.78" W
Mean Max Temperature of Hotest Month	83°
Airport Terminal Area NAVAIDS	Beacon, LDA, VOR, GPS, NDB
Magnetic Variation	15°W
Date of Magnetic Variation	1995
NPIAS Service Level	Reliever
FAA G.A. Category	Regional
Wind Coverage Crosswind Component (Runway 2–20 only) (10.5/13 knots)	All Weather: 95.24/97.64 VFR: 94.79/97.42 IFR: 99.38/99.7
Airport Reference Code	B–II
Design Aircraft	Citation CJ4
Taxiway Lighting	MITL
Taxiway Marking	Yes

RUNWAY PROTECTION ZONES

Existing				
RWY	W1	L	W2
2*	500'	1,000'	700'
20*	500'	1,000'	700'
11	250'	450'	1,000'
29	250'	450'	1,000'
TURF	250'	450'	1,000'

*APPROACH AND DEPARTURE



LEGEND

Existing	Description
	Runway Centerline
	Runway Safety Area (RSA)
	Runway Object Free Area (ROFA)
	Runway Obstacle Free Zone (ROFZ)
	Runway Protection Zone (RPZ)
	Taxiway Object Free Area (TOFA)
	Taxiway Safety Area
	Building Restriction Line (BRL)
	Runway Visibility Zone (RVZ)
	Airport Pavement
	Airport Reference Point
1	Airport Buildings/Building No.
	Other Buildings
	Airport Property Line
	Other Property Lines
	Railroad
	Fence
	Roads
	Unpaved Path or Trail
	Tree line
	Wetlands
	Stream/River/Body of Water
100 98.6	Ground Elevation Contours/Spot Elev.

Note: Some Features In The Legend May Not Have Been Used

RUNWAY DATA TABLE

RUNWAY DATA		Runway 2/20 Existing	Runway 11/29 Existing
Effective Gradient (%)		0.158%	0.080%
Maximum Grade Change		0.2%	0.3%
Wind Coverage		97.6% (13 KT)	93.2% (10.5 KT)
Max. Elevation (MSL)		18'	14'
Runway Length/Width		4417' x 150'	2314' x 71'
Displaced Threshold		410'/559'	0'/265'
Usable Runway Length		4418'	2314'
Surface Type		Bituminous Concrete	Bituminous Concrete
Pavement Strength SW:Single wheel, DW:Dual Wheel DT:Dual Tandem, DDT:Double Dual Tandem		SW: 30K, DW: 43K DT: 70K	SW: 10K
Approach Surface Slope		34:1/20:1	20:1/20:1
Approach Minimums		1 Mile, 460' MDA	N/A
Visual Approach Aids		PAPI, REIL/PAPI, REIL	None/None
Instrument Approach Aids		LOC	None
Runway Lighting		HIRL	MIRL
Runway Marking		NPI/NPI	Visual/Visual
Runway Design Code (RDC)		B–II	B–I
Design Aircraft		Cessna CJ4	Piper Archer
Stage Length		1	1
Runway Safety Area (RSA)	Length Beyond Rwy:	Non-Standard	240'
	Width:	Non-Standard	120'
Runway Object Free Area (ROFA)	Length Beyond Rwy:	300'	240'
	Width:	500'	250'
Obstacle Free Zone (OFZ)	Width:	400'	250'
FAR Part 77 Category		NPI/VISUAL	Visual/Visual
Runway End Coordinates (NAD 83)	Rwy 2	Lat: 41° 43' 53.90"N Long: 72° 38' 59.32"W	Rwy 11: Lat: 41° 44' 03.05"N Long: 72° 39' 27.29"W
	Rwy 20	Lat: 41° 44' 37.00"N Long: 72° 38' 50.26"W	Rwy 29: Lat: 41° 43' 59.54"N Long: 72° 38' 57.14"W
Runway End Elevations (MSL)		Rwy 2: 9' MSL Rwy 20: 18' MSL	Rwy 11: 13' MSL Rwy 29: 10' MSL
Displaced Threshold Elevation (MSL)		10'/17' est.	12'/ N/A est.

No.	EXISTING BUILDINGS
1	Localizer equipment
2	Localizer
3	Segmented Circle
4	Control Tower
5	Electric Vault
6	Aviation School/Hangar
7	T–Hangars
8	T–Hangars
9	South Ramp
10	FBO Hangar
11	Helicopter Parking
12	Midfield Helipad (H1)
13	FBO Hangar
14	Hangar
15	Midfield Ramp
16	FBO Ramp
17	FBO Terminal
18	FBO Hangar
19	Helicopter Parking
20	North Helipad (H2)
21	North Ramp
22	Fuel Farm
23	Airport Maintenance Building
24	Offices/Airport Management
25	Office/Hangar (State Police)
26	State Police Storage
27	Airport Manager's Office
28	Airport Maintenance Garage

Proposed Action (River side, top of fence even with the top of berm.)

Alt #2 (Bottom of berm, Airport side of access road.)

Alt #3 (Alt #1 and #2 until free of FAA surfaces then back over berm to the Airport property.)

Magnetic (1995) 15°W

0 300 600

Scale in feet

No.	Submittal / Revision	Apprd	By	Date

CAA
CONNECTICUT AIRPORT AUTHORITY
CONNECTICUT DEPARTMENT OF TRANSPORTATION

DRAFT

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Designed: P.O.M. | Drawn: P.M. | Checked: E.M.R.

Hartford-Brainard Airport (HFD)
Hartford, Connecticut
Master Plan Update

EXISTING AIRPORT LAYOUT

Issue Date: APR. 2014 | Project No.: 21099 | Scale: AS NOTED

ALP-1

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