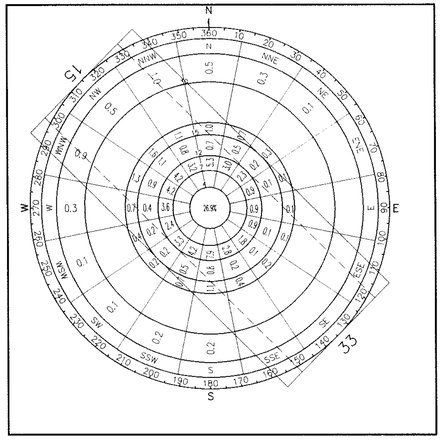
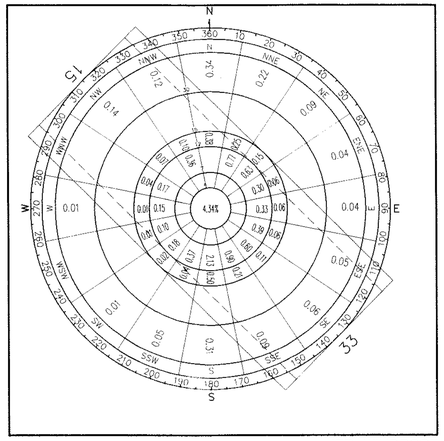
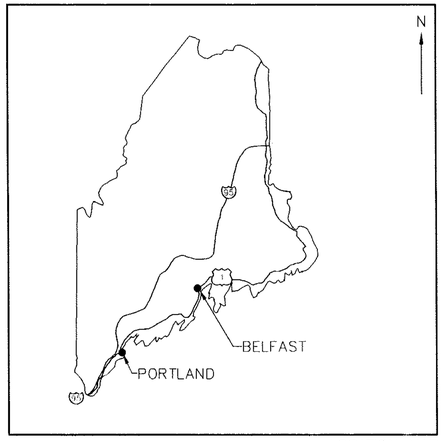


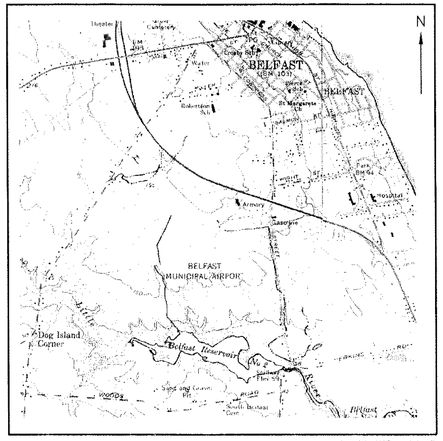
ALL WEATHER WINDROSE



IFR WINDROSE



LOCATION MAP



VICINITY MAP

SHEET DESCRIPTION

SHEET	DESCRIPTION
1	TITLE SHEET
2	EXISTING AIRPORT LAYOUT PLAN
3	ULTIMATE AIRPORT LAYOUT PLAN
4	TERMINAL AREA PLAN
5	APPROACH PLAN AND PROFILE RUNWAY 15–33
6	FAR PART 77 IMAGINARY SURFACES PLAN
7	LAND–USE PLAN

INDEX OF SHEETS

ALL WEATHER WINDROSE

RUNWAYS	12 MPH	15 MPH
15	51.7%	53.3%
33	66.9%	69.3%
COMBINED	91.7%	95.7%
CALMS	26.9%	

IFR WINDROSE

RUNWAYS	12 MPH	15 MPH
15	62.7%	64.2%
33	50.5%	52.3%
COMBINED	88.0%	91.3%
CALMS	25.2%	

PERIOD : DECEMBER 1941 – MARCH 1965
LOCATION : BANGOR INTERNATIONAL AIRPORT
BANGOR, MAINE
SOURCE : NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

AIRPORT LAYOUT PLAN 1994 – 2014

BELFAST MUNICIPAL AIRPORT
BELFAST, MAINE

AIP NO. 3–23–0007–0194

Dufresne-Henry, Inc.
A DVI Company
22 Free Street
Portland,
Maine 04101–3900

Consulting Engineers

OFFICES
No. Springfield, Vermont 05150
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Manchester, New Hampshire 03101
Portland, Maine 04101–3900
Westford, Massachusetts 01886
Greenfield, Massachusetts 01301
Naples, Florida 33942
Port Charlotte, Florida 33954
Sarasota, Florida 34238

ENGINEERING DISCIPLINES
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Industrial
Mechanical
Solid Waste
Structural
Transportation
Wastewater
Water

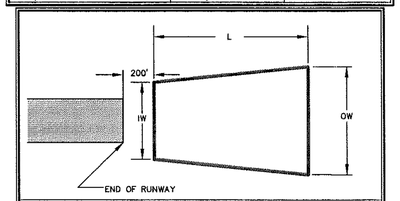
ASSOCIATED DISCIPLINES
Construction Management
Site Assessments
Surveying

APPLIED SCIENCES
Geologic
Hydrologic
Water Quality

RUNWAY DATA	EXISTING	ULTIMATE
% WIND COVERAGE (ALL WEATHER)	12 MPH 15 MPH R/W 15: 51.7% 53.3% R/W 33: 66.9% 69.3% COMBINED: 91.7% 95.7% CALMS: 26.9% 26.9%	
PAVEMENT STRENGTH	30,000 LBS. SINGLE WHEEL	
APPROACH SURFACES	R/W 15: 20:1 NP R/W 33: 20:1 NP	
RUNWAY MARKINGS	NON-PRECISION	
RUNWAY LIGHTING	MIRL	
RUNWAY NAVAIDS	R/W 15: VASI-2L R/W 33: NONE	
IDEAL RSA DIMENSIONS	120' X 4,482'	
EFFECTIVE GRADIENT	0.67%	
RUNWAY END ELEVATIONS	R/W 15: 196.0' MSL R/W 33: 161.0' MSL	
RUNWAY END COORDINATES	R/W 15: 44°24'46.414"N 69°01'04.105"W R/W 33: 44°24'21.250"N 69°00'24.071"W	

EXISTING	ULTIMATE	BUILDINGS
1		ADMINISTRATION BUILDING
2		STORAGE SHED
3		FBO HANGAR
4		PRIVATE T-HANGAR
5		PRIVATE CONVENTIONAL HANGAR
6		PRIVATE CONVENTIONAL HANGAR
7		PRIVATE CONVENTIONAL HANGAR
8		PRIVATE CONVENTIONAL HANGAR
9		PRIVATE CONVENTIONAL HANGAR
10		PRIVATE CONVENTIONAL HANGAR
11		PRIVATE CONVENTIONAL HANGAR
12		PRIVATE CONVENTIONAL HANGAR

AIRPORT DATA	EXISTING	ULTIMATE
AIRPORT ELEVATION	196.0' MSL	
AIRPORT REFERENCE POINT	LAT. 44°24'34.873"N LONG. 69°00'44.124"W	
MEAN MAX. TEMP. (HOTTEST MO.)	81°F	
TAXIWAY LIGHTING	NONE	
TAXIWAY MARKING	CENTERLINE, SIGNAGE	
AIRPORT/TERMINAL NAVAIDS	LIGHTED WINDCONE ROTATING BEACON/NDB	
AIRPORT REFERENCE CODE (ARC)	BI	
ACREAGE OWNED IN FEE SIMPLE	221± ACRES	
ACREAGE OWNED IN EASEMENT	80± ACRES	
USE/OWNERSHIP	PUBLIC/PUBLIC	



RUNWAY	INNER WIDTH (IW)	OUTER WIDTH (OW)	LENGTH (L)
R/W 15	500'	700'	1000'
R/W 33	500'	700'	1000'

LEGEND	EXISTING	ULTIMATE
PAVEMENT		
AIRPORT PROPERTY LINE		
AVIGATION EASEMENT		
FENCE LINE		
BUILDING		
TREE LINE		
AIRPORT REFERENCE POINT (ARP)		
WETLANDS (SKETCH-MAP LEVEL DELINEATION) **		
LIGHTED WINDCONE		
SEGMENTED CIRCLE		
MAINE STATE GRID TICKS		
UTILITY POLE		
CONTOURS (2-FOOT INTERVALS)	150	
AIRPORT BEACON		
OBJECT FREE AREA (OFA)		
RUNWAY SAFETY AREA (RSA)		
BUILDING RESTRICTION LINE (BRL) (NOTE: 20' BUILDING HEIGHT)		
DIRT ROADWAY		
BRUSH LINE		
RETAINING WALL		
LAND TO BE ACQUIRED IN FEE	N/A	
TREE CLEARING (ASSUME 60' TREES)	N/A	

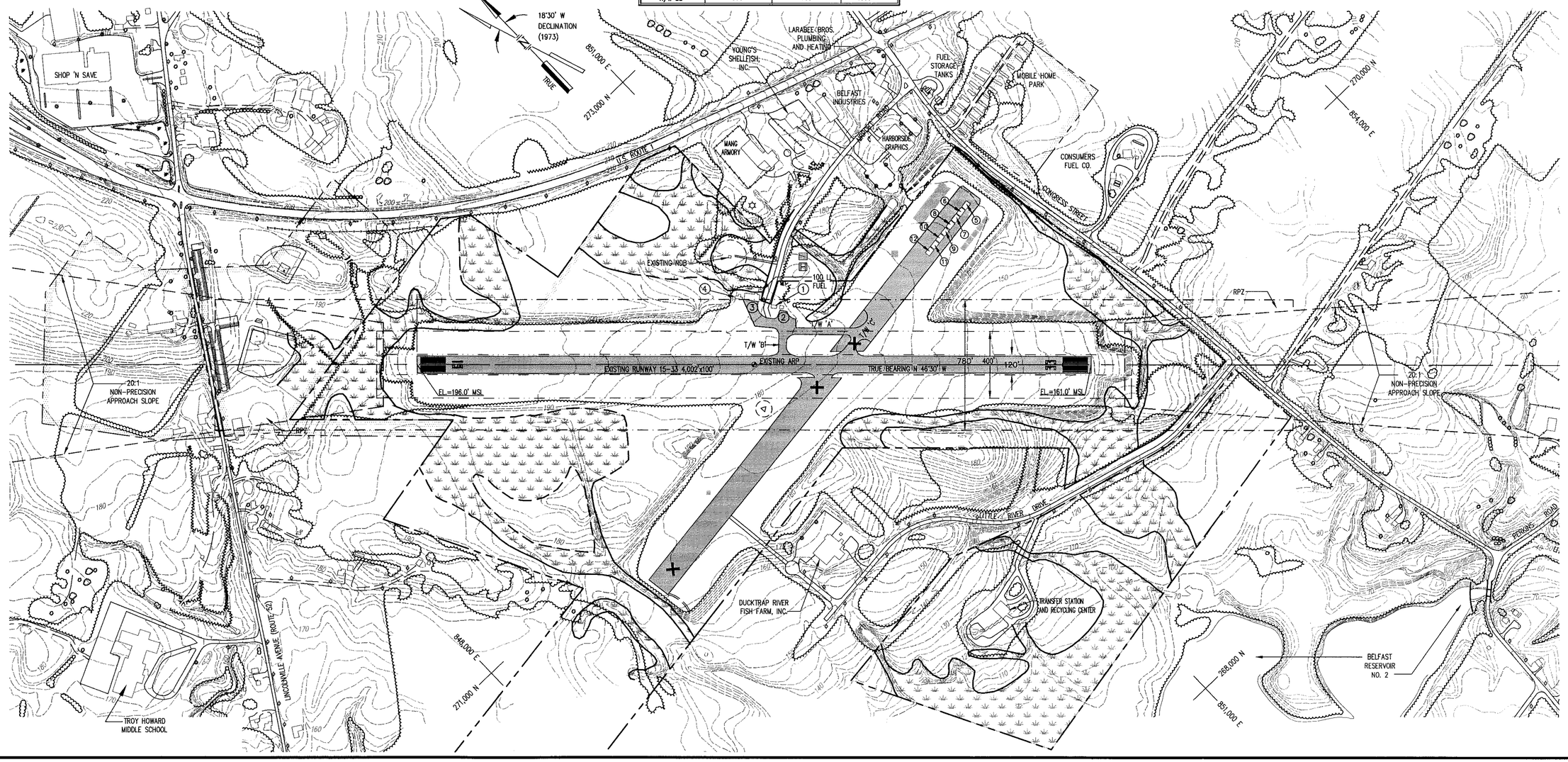
**NOTE: INFO SHOWN ON PLAN IS SKETCH LEVEL ONLY AND DEPICTS POTENTIAL WETLANDS ON AIRP PROPERTY. ANY DEVELOPMENT IN THE FUTURE SHOULD REQUIRE ON-SITE WETLAND DELINEATION, AND COORDINATION WITH ASSOCIATED ENVIRONMEN AGENCIES.

GRAPHIC SCALE

300 0 150 300 600

1 inch = 300 feet

NATIONAL GEODETIC VERTICAL DATUM USED: 1929



Dufresne-Henry, Inc.
22 Free Street
Portland
Maine 04101-3900
TEL (207) 775-3211 FAX (207) 775-6434

Rev.	Description	By	Date

MAINE

BELFAST MUNICIPAL AIRPORT
AIP# 3-23-0007-01

EXISTING AIRPORT LAYOUT PLAN

BELFAST

Client No.	811005
Proj. Manager	C.L. NIEWOLA
Proj. Designer	C.L. NIEWOLA
Drawn By	M.R. STACEY
Checked By	C.L. NIEWOLA
Scale	1"=300'
Approved	D. C. DARGIE
Date	05-26-99

BST

Sheet 2 of 7

D AS TITLED

RUNWAY DATA	EXISTING	ULTIMATE
% WIND COVERAGE (ALL WEATHER)	12 MPH 15 MPH R/W 15: 51.7% 53.3% R/W 33: 66.9% 69.3% COMBINED: 91.7% 95.7% CALMS: 26.9% 26.9%	SAME
PAVEMENT STRENGTH	30,000 LBS. SINGLE WHEEL	SAME
APPROACH SURFACES	R/W 15: 20:1 NP R/W 33: 20:1 NP	R/W 15: 20:1 NP R/W 33: 20:1 NP
RUNWAY MARKINGS	NON-PRECISION	NON-PRECISION
RUNWAY LIGHTING	MIRL	SAME
RUNWAY NAVAIDS	R/W 15: VASI-2L R/W 33: NONE	R/W 15: PAPI, REIL R/W 33: PAPI, REIL
RSA DIMENSIONS	120' X 240' BEYOND RUNWAY END	150' X 300' BEYOND RUNWAY END
EFFECTIVE GRADIENT	0.87%	SAME
RUNWAY END ELEVATIONS	R/W 15: 196.0' MSL R/W 33: 161.0' MSL	SAME
RUNWAY END COORDINATES	R/W 15: 44°24'48.414"N 69°01'04.105"W R/W 33: 44°24'21.250"N 69°00'24.071"W	SAME

EXISTING	ULTIMATE	BUILDINGS
1	A	ADMINISTRATION BUILDING
2		STORAGE SHED
3		FBO HANGAR
4		PRIVATE T-HANGAR
5		PRIVATE CONVENTIONAL HANGAR
6		PRIVATE CONVENTIONAL HANGAR
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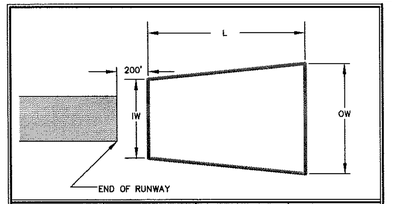
8		PRIVATE CONVENTIONAL HANGAR
9		PRIVATE CONVENTIONAL HANGAR
10		PRIVATE CONVENTIONAL HANGAR
11		PRIVATE CONVENTIONAL HANGAR
12		PRIVATE CONVENTIONAL HANGAR
	13	PRIVATE CONVENTIONAL HANGAR
	14	PRIVATE CONVENTIONAL HANGAR
	15	PRIVATE CONVENTIONAL HANGAR
	16	PRIVATE CONVENTIONAL HANGAR
	17 - 23	PRIVATE T-HANGARS

NOTE: EXISTING BUILDINGS 1-4 ARE TO BE REMOVED OR REPLACED WITH NEW BUILDINGS IN THE RELOCATED TERMINAL AREA.

AIRPORT DATA	EXISTING	ULTIMATE
AIRPORT ELEVATION	196.0' MSL	SAME
AIRPORT REFERENCE POINT	LAT. 44°24'34.873"N LONG. 69°00'44.124"W	LAT. 44°24'34.020"N LONG. 69°00'45.370"W
MEAN MAX. TEMP. (HOTTEST MO.)	81°F	SAME
TAXIWAY LIGHTING	NONE	MITL
TAXIWAY MARKING	CENTERLINE, SIGNAGE	SAME
AIRPORT/TERMINAL NAVAIDS	LIGHTED WINDCONE ROTATING BEACON/NDB	SAME
AIRPORT REFERENCE CODE (ARC)	BI	BII
ACREAGE OWNED IN FEE SIMPLE	221± ACRES	SAME
ACREAGE OWNED IN EASEMENT	80± ACRES	107± ACRES
USE/OWNERSHIP	PUBLIC/PUBLIC	SAME



RUNWAY	INNER WIDTH (IW)	OUTER WIDTH (OW)	LENGTH (L)
R/W 15	500'	700'	1000'
R/W 33	500'	700'	1000'

LEGEND	EXISTING	ULTIMATE
PAVEMENT		
AIRPORT PROPERTY LINE		SAME
AVIGATION EASEMENT		
FENCE LINE		
BUILDING		
TREE LINE		
AIRPORT REFERENCE POINT (ARP)		SAME
WETLANDS (SKETCH-MAP LEVEL DELINEATION) **		SAME
LIGHTED WINDCONE		SAME
SEGMENTED CIRCLE		SAME
MAINE STATE GRID TICKS		SAME
UTILITY POLE		SAME
CONTOURS (2-FOOT INTERVALS)	150	SAME
AIRPORT BEACON		
OBJECT FREE AREA (OFA)	NOT SHOWN *	
RUNWAY SAFETY AREA (RSA)	NOT SHOWN *	
BUILDING RESTRICTION LINE (BRL) (NOTE: 20' BUILDING HEIGHT)	NOT SHOWN *	
DIRT ROADWAY		SAME
BRUSH LINE		SAME
RETAINING WALL		SAME
TREE CLEARING (ASSUME 60' TREES)	N/A	

* REFER TO "EXISTING AIRPORT LAYOUT PLAN" (SHEET 2)

FOR APPROVAL BY FEDERAL AVIATION ADMINISTRATION

APPROVED BY: _____ MANAGER, AIRPORTS DIVISION

DATE: 12-16-99

FOR APPROVAL BY MAINE DEPARTMENT OF TRANSPORTATION/ OFFICE OF PASSENGER TRANSPORTATION

APPROVED BY: _____ DIRECTOR

DATE: 11-3-99

FOR APPROVAL BY CITY OF BELFAST, MAINE

APPROVED BY: _____ CITY MANAGER

DATE: 10/26/99

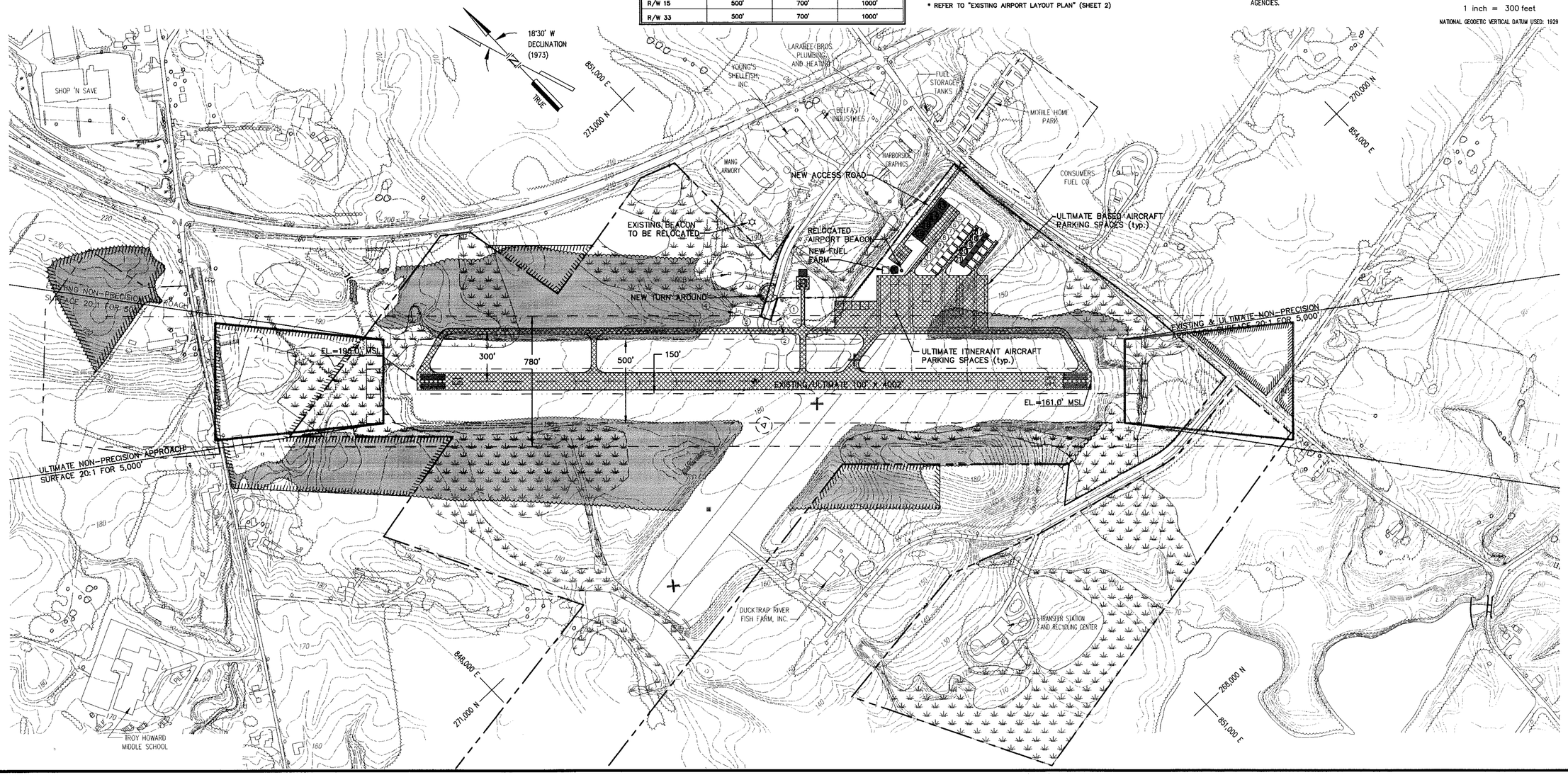
** NOTE: INFO SHOWN ON PLAN IS SKETCH LEVEL ONLY AND DEPICTS POTENTIAL WETLANDS ON AIRPORT PROPERTY. ANY DEVELOPMENT IN THE FUTURE SHOULD REQUIRE ON-SITE WETLAND DELINEATION, AND COORDINATION WITH ASSOCIATED ENVIRONMENTAL AGENCIES.

GRAPHIC SCALE

300 0 150 300 600

1 inch = 300 feet

NATIONAL GEODETIC VERTICAL DATUM USED: 1929



Dufresne-Henry, Inc.
22 Free Street
Portland, Maine 04101-3900
TEL (207) 775-3211 FAX (207) 775-6434

Rev	Description	By	Date

MAINE

BELFAST MUNICIPAL AIRPORT
AIP# 3-23-0007-01

ULTIMATE AIRPORT LAYOUT PLAN

BELFAST

Client No.	811005
Proj. Manager	C.L. NIEWOLA
Proj. Designer	C.L. NIEWOLA
Drawn By	M.R. STACEY
Checked By	C.L. NIEWOLA
Scale	1"=300'
Approved	D. C. DARGIE
Date	05-26-99

BST

Sheet 3 of 7

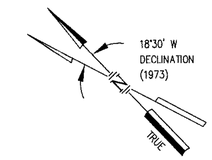
D AS TITLED

EXISTING	ULTIMATE	BUILDINGS
1	A	ADMINISTRATION BUILDING
2		STORAGE SHED
3		FBO HANGAR
4		PRIVATE T-HANGAR
5		PRIVATE CONVENTIONAL HANGAR
6		PRIVATE CONVENTIONAL HANGAR
7		PRIVATE CONVENTIONAL HANGAR
8		PRIVATE CONVENTIONAL HANGAR
9		PRIVATE CONVENTIONAL HANGAR
10		PRIVATE CONVENTIONAL HANGAR
11		PRIVATE CONVENTIONAL HANGAR
12		PRIVATE CONVENTIONAL HANGAR
	13	PRIVATE CONVENTIONAL HANGAR
	14	PRIVATE CONVENTIONAL HANGAR
	15	PRIVATE CONVENTIONAL HANGAR
	16	PRIVATE CONVENTIONAL HANGAR
	17 – 21	PRIVATE T-HANGARS

AIRPORT DATA	EXISTING	ULTIMATE
AIRPORT ELEVATION	198.0' MSL	SAME
AIRPORT REFERENCE POINT	LAT. 44°24'34.873"N LONG. 69°00'44.124"W	LAT. 44°24'34.020"N LONG. 69°00'45.370"W
MEAN MAX. TEMP. (HOTTEST MO.)	81°F	SAME
TAXIWAY LIGHTING	NONE	MITL
TAXIWAY MARKING	CENTERLINE, SIGNAGE	SAME
AIRPORT/TERMINAL NAVAIDS	LIGHTED WINDCONE ROTATING BEACON/NDB	LIGHTED WINDCONE ROTATING BEACON
AIRPORT REFERENCE CODE (ARC)	BI	BII
ACREAGE OWNED IN FEE SIMPLE	221± ACRES	SAME
ACREAGE OWNED IN EASEMENT	80± ACRES	107 ± ACRES
USE / OWNERSHIP	PUBLIC/PUBLIC	SAME

NOTE: SPACING BETWEEN ULTIMATE CONVENTIONAL HANGARS MAY BE ALTERED AT THE TIME OF DESIGN/CONSTRUCTION TO MEET USER NEEDS.

LEGEND	EXISTING	ULTIMATE
PAVEMENT		
AIRPORT PROPERTY LINE		SAME
AVIGATION EASEMENT		
FENCE LINE		
BUILDING		
TREE LINE		
AIRPORT REFERENCE POINT (ARP)		SAME
WETLANDS (SKETCH-MAP LEVEL DELINEATION) **		SAME
LIGHTED WINDCONE		SAME
SEGMENTED CIRCLE		SAME
MAINE STATE GRID TICKS		SAME
UTILITY POLE		SAME
CONTOURS (2-FOOT INTERVALS)	150	SAME
AIRPORT BEACON		
OBJECT FREE AREA (OFA)	NOT SHOWN *	
RUNWAY SAFETY AREA (RSA)	NOT SHOWN *	
BUILDING RESTRICTION LINE (BRL) (NOTE: 20' BUILDING HEIGHT)	NOT SHOWN *	
DIRT ROADWAY		SAME
BRUSH LINE		SAME
RETAINING WALL		SAME
TREE CLEARING(ASSUME 60' TREES)	N/A	



** NOTE: INFO SHOWN ON PLAN IS SKETCH LEVEL ONLY AND DEPICTS POTENTIAL WETLANDS ON AIRPORT PROPERTY. ANY DEVELOPMENT IN THE FUTURE SHOULD REQUIRE ON-SITE WETLAND DELINEATION, AND COORDINATION WITH ASSOCIATED ENVIRONMENTAL AGENCIES.

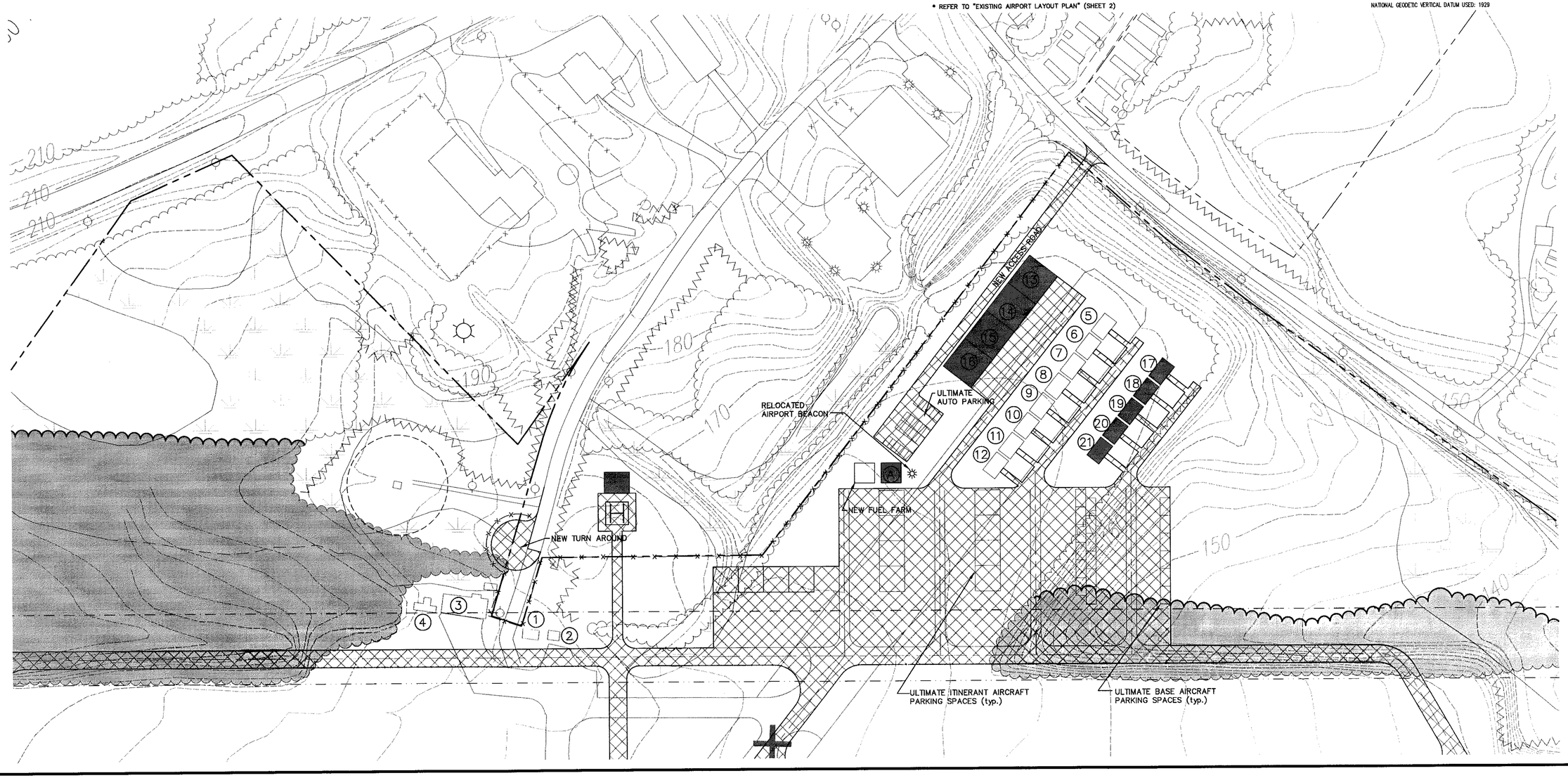
GRAPHIC SCALE

100 0 50 100 200

1 inch = 100 feet

NATIONAL GEODETIC VERTICAL DATUM USED: 1929

* REFER TO "EXISTING AIRPORT LAYOUT PLAN" (SHEET 2)



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Rev.	Description	By	Date

MAINE

BELFAST MUNICIPAL AIRPORT
AIP# 3-23-0007-01

TERMINAL AREA PLAN

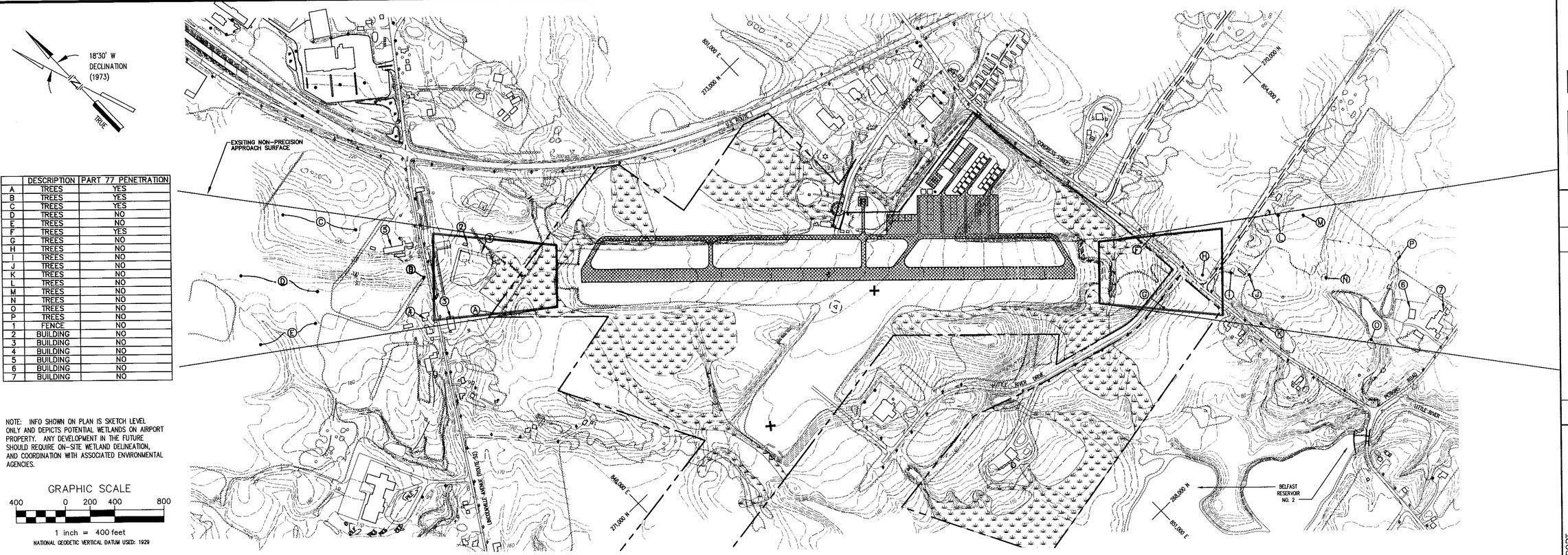
BELFAST

Contract No.	811005
Proj. Manager	C.L. NIEWOLA
Proj. Designer	C.L. NIEWOLA
Drawn By	M.R. STACEY
Checked By	C.L. NIEWOLA
Scale	1"=100'
Approved	D. C. DARGIE
Date	05-26-99

BST

Sheet 4 of 7

D AS TITLED



	DESCRIPTION	PART 77 PENETRATION
A	TREES	YES
B	TREES	YES
C	TREES	YES
D	TREES	NO
E	TREES	NO
F	TREES	YES
G	TREES	NO
H	TREES	NO
I	TREES	NO
J	TREES	NO
K	TREES	NO
L	TREES	NO
M	TREES	NO
N	TREES	NO
O	TREES	NO
P	TREES	NO
1	FENCE	NO
2	BUILDING	NO
3	BUILDING	NO
4	BUILDING	NO
5	BUILDING	NO
6	BUILDING	NO
7	BUILDING	NO

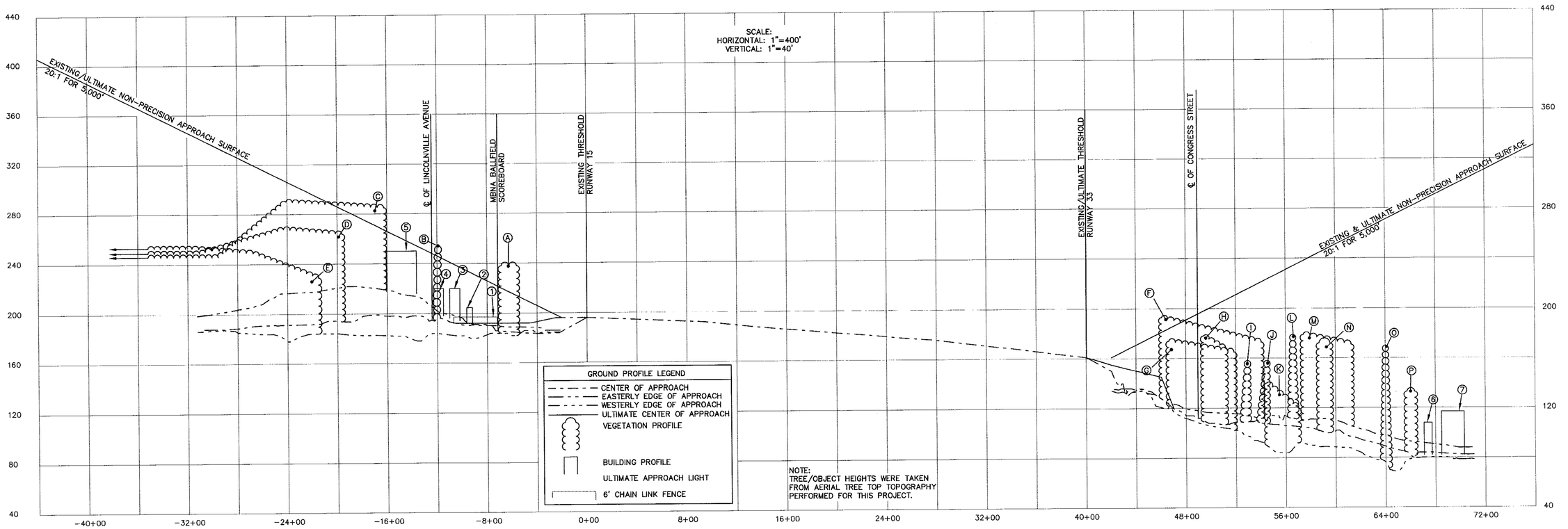
NOTE: INFO SHOWN ON PLAN IS SKETCH LEVEL ONLY AND DEPICTS POTENTIAL WETLANDS ON AIRPORT PROPERTY. ANY DEVELOPMENT IN THE FUTURE SHOULD REQUIRE ON-SITE WETLAND DELINEATION, AND COORDINATION WITH ASSOCIATED ENVIRONMENTAL AGENCIES.

GRAPHIC SCALE

400 0 200 400 800

1 inch = 400 feet

NATIONAL GEODETIC VERTICAL DATUM USED: 1929



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Maine 04101-3900
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FAX (207) 775-6434

Rev.	Description	By	Date

MAINE

BELFAST MUNICIPAL AIRPORT
AIP# 3-23-0007-01

RUNWAY 15-33
APPROACH PLAN AND PROFILE

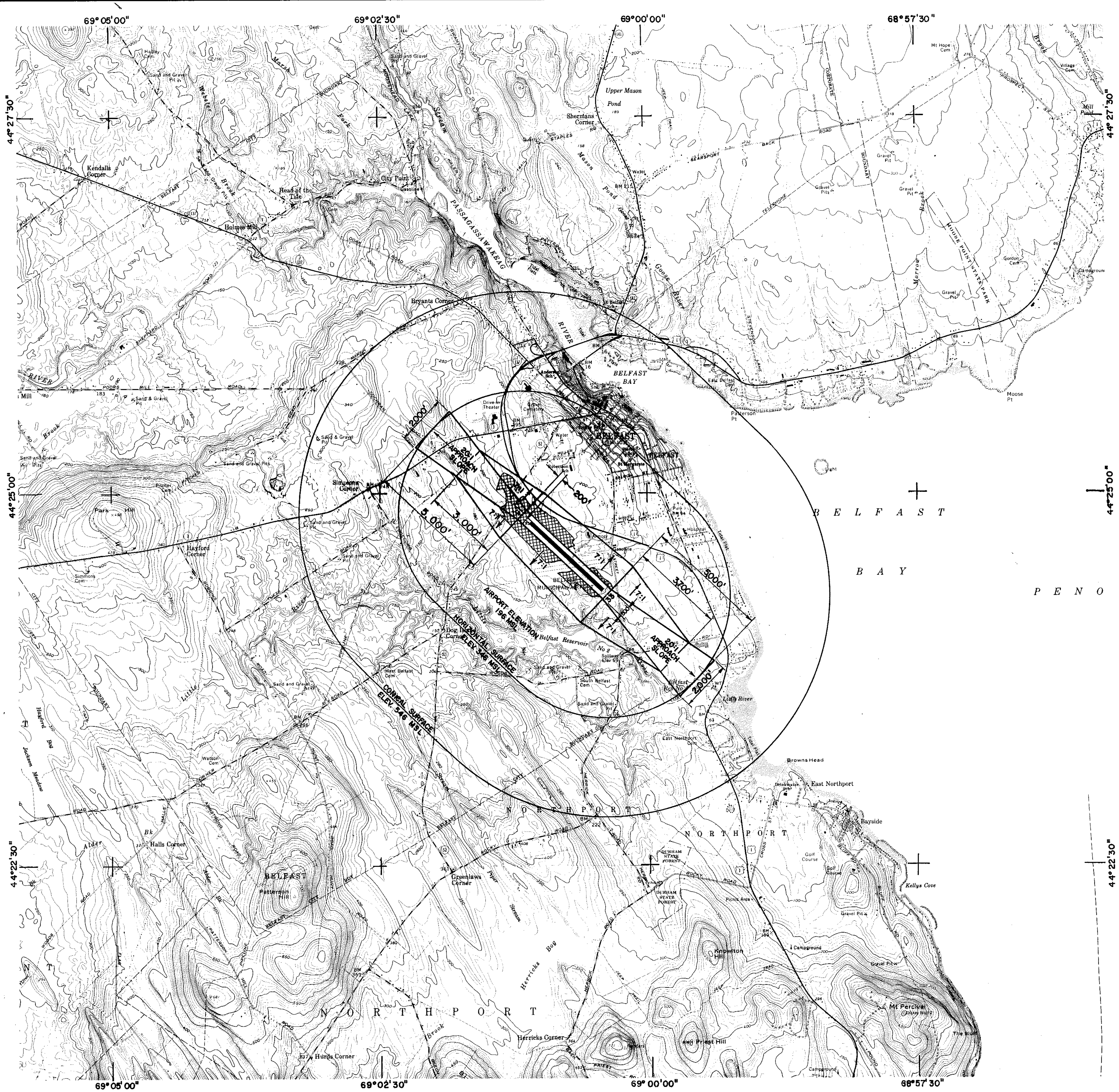
BELFAST

Client No.	811005
Proj. Manager	C.L. NIEWOLA
Proj. Designer	C.L. NIEWOLA
Drawn By	M.R. STACEY
Checked By	C.L. NIEWOLA
Scale	1"=400'
Approved	D. C. DARGIE
Date	05-26-99

BST

Sheet 5 of 7

D AS TITLED



LEGEND

TREE PENETRATION AREA (ASSUMED 60' TREE HEIGHT)

18°30' W DECLINATION (1973)

TRUE

GRAPHIC SCALE

2000 0 1000 2000 4000

1 inch = 2000 feet

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Portland, Maine
04101-3900
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FAX (207) 775-6434

Rev.	Description	By	Date

BELFAST MUNICIPAL AIRPORT
AIP # 3-23-0007-01

FAR PART 77 IMAGINARY SURFACES PLAN

BELFAST MAINE

Client No.	811005
Proj. Manager	CLN
Proj. Designer	DC
Drawn By	CWM
Checked By	JEG
Scale	1"=2000'
Approved	DCD
Date	08-21-98

BST

Sheet 6 of 7

D

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22 Free Street
Portland
Maine 04101-3900
TEL. (207) 775-3211
FAX (207) 775-6434

Rev.	Description	By	Date

BELFAST MUNICIPAL AIRPORT
AIP# 3-23-0007-01

LAND-USE PLAN

BELFAST MAINE

Client No.	811005
Proj. Manager	C.L. NIEWOLA
Proj. Designer	C.L. NIEWOLA
Drawn By	C.W. MILLS
Checked By	C.L. NIEWOLA
Scale	1"=300'
Approved	D. C. DARGIE
Date	05-26-99

BST

Sheet 7 of 7

D AS TITLED