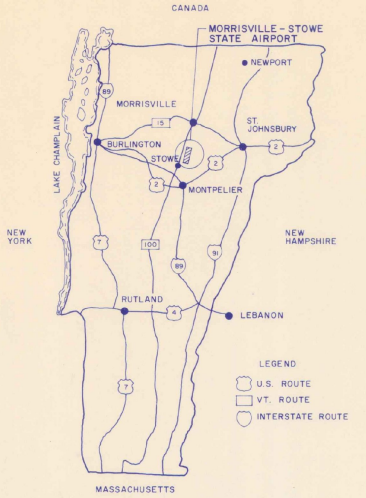
MORRISVILLE - STOWE STATE AIRPORT
MORRISTOWN, VERMONT

AIRPORT MASTER PLAN



LOCATION MAP

PREPARED FOR:

VERMONT AGENCY OF TRANSPORTATION

PREPARED BY:

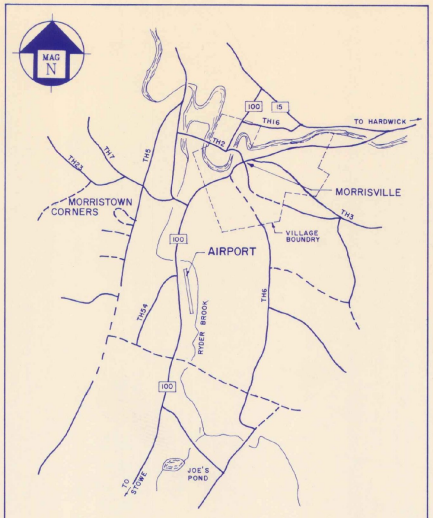
GERALD D'AMICO, P.E.

IN ASSOCIATION WITH

RIST-FROST ASSOCIATES, P.C.

LIST OF DRAWINGS

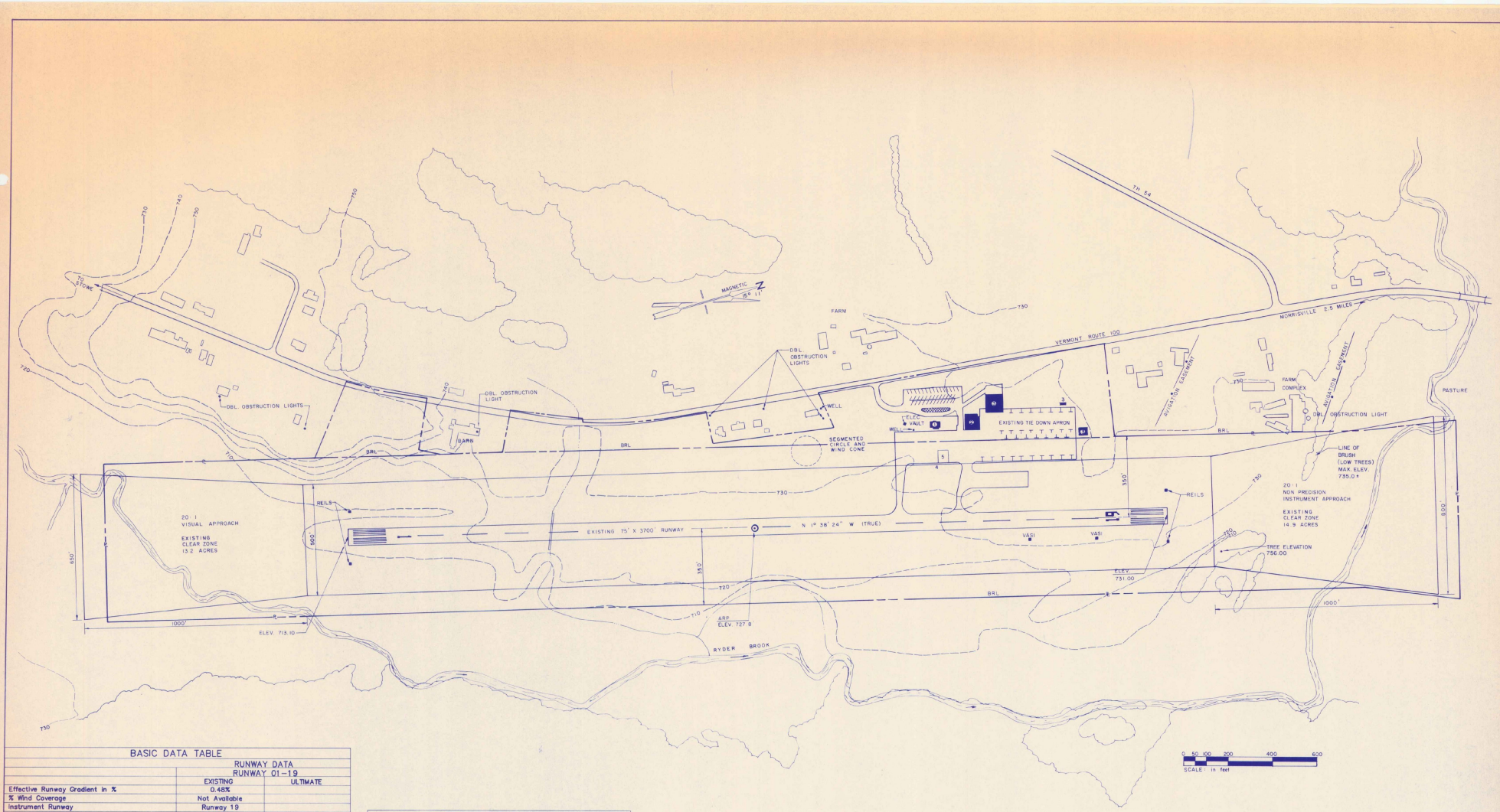
1. COVER SHEET
2. EXISTING AIRPORT LAYOUT
3. EXISTING TOPOGRAPHY
4. AIRPORT LAYOUT PLAN
5. TERMINAL AREA PLAN
6. RUNWAY PLAN AND PROFILE
7. IMAGINARY SURFACES - F.A.R. PART 77
8. LAND USE PLAN



VICINITY MAP

VERMONT AGENCY OF TRANSPORTATION
PROJECT NUMBER AIR 03 - 2063

FEDERAL AVIATION ADMINISTRATION
PROJECT NUMBER AIP 3 - 50 - 0012 - 05



BASIC DATA TABLE

	RUNWAY DATA RUNWAY 01–19	
	EXISTING	ULTIMATE
Effective Runway Gradient in %	0.48%	
% Wind Coverage	Not Available	
Instrument Runway	Runway 19	
Pavement Strength	12,500 (sw)*	
Approach Slopes and Clear Zones	20:1	
Lighting	MIRLS	
Marking	Non-Precision	
Physical Length	3700'	
Width	75'	
Safety Area Length	300'	
Width	150'	
Obstacle Free Zone	250'	
Surface Composition	Asphalt	
Approach Category	NDB R/W 19	
Visual Aids	R/W 1 REILS/VASI–2 R/W 19	
Runway Category	Utility	
Taxiway Width		
Aircraft Design Group	II	
Aircraft Approach Speed Class	B	

	AIRPORT DATA	
	EXISTING	ULTIMATE
Airport Reference Point (ARP) Coordinates	N 44° 32' 04.4" Lat. W 72° 36' 52.4" Long.	
Airport Elevation	732.1 MSL	
Mean Maximum Temperature of Hottest Month	79.9°	
Navigational Aid	NDB	

*Values given are gross aircraft weight for single wheel (SW)

LEGEND

	EXISTING
Building Restriction Line	BRL
Airport Buildings and Hangars	
Airport Property Line	
Property to be Acquired	
Easement to be Acquired	
Contour Lines	
Fence	
Tree Line	
Airport Pavement	
Safety Area and Clear Zone	As shown

AIRPORT FACILITIES

	EXISTING	ULTIMATE
1	Terminal Building	
2	F.B.O. Hangar	
3	Aircraft Storage	
4	Aircraft Fuel	
5	Concrete Aircraft Fueling Apron	

Note: Due to lack of site specific wind data no wind roses are available.

NO.	DESCRIPTION REVISION	BY	DATE

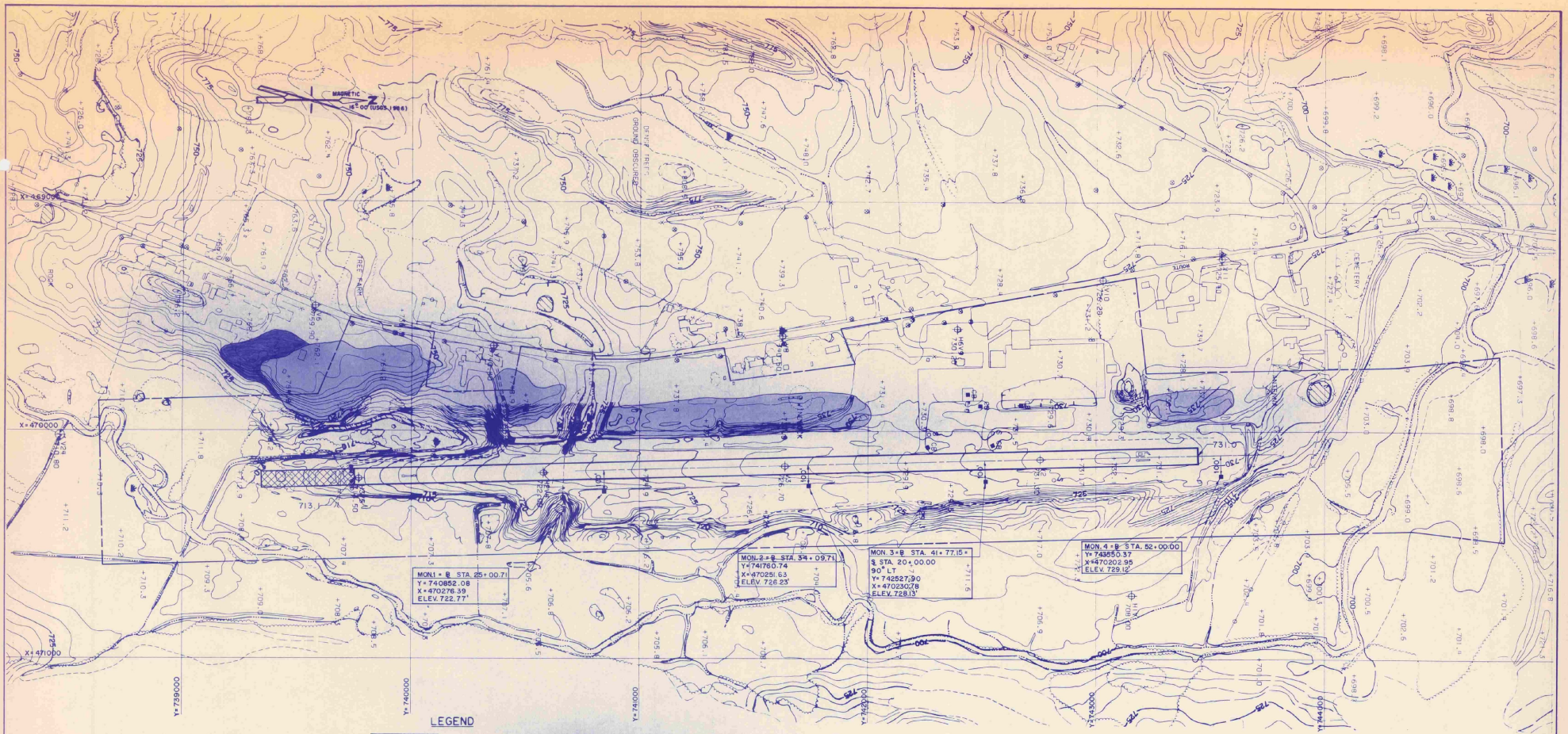
MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

EXISTING AIRPORT LAYOUT

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	ENGR. CHK.
SCALE 1" = 200'	TRADE COORD. CHK.
DATE MAY, 1990	TECH. MGR.
PROJECT NO. 88-2742	PROJ. MGR.
FILE NO. 27421701	
DRAWING NO. 2	
SHEET 2 OF 8	REV. NO.



LEGEND

- PAVED ROAD
- GRAVEL ROAD
- TRAILS
- BUILDINGS
- RIVER/STREAM
- LAKE/POND
- SWAMP
- STONEWALL
- FENCE
- RETAINING WALL
- TREELINE
- LONE TREE
- DENSE WOOD LIMIT
- CULVERT
- CATCH BASIN
- UTILITY POLE
- POLE
- SIGN
- +758.6 SPOT ELEVATION
- 725 CONTOURS
- 800 OBSCURED CONTOURS
- LAND FORM LINES ONLY (GROUND NOT OBSERVED)
- PROPERTY LINE
- EXISTING GROUND PENETRATION OF PART 77 SURFACES
- FUTURE GROUND PENETRATION W/EXT., OF PART 77 SURFACE
- 400' RUNWAY EXTENSION.

TOPOGRAPHIC WORKSHEET

OF THE

STOWE STATE AIRPORT

MORRISVILLE, VT.

FOR

GERALD W. D'AMICO, P.E.

ROXBURY, VT.

BY

EASTERN TOPOGRAPHICS

OSSIPEE, N.H.

SCALE: 1" = 200' CONTOUR INTERVAL: 1 & 5'
PHOTO DATE: 23 NOV 88 B

ANY USER SHOULD DETERMINE THE SUITABILITY OF THIS AERIAL MAPPING FOR HIS INTENDED USE AND ASSUME ALL RISK AND LIABILITY IN CONNECTION THEREWITH.

SHEET 1 OF 1 L5C/873

NO.	DESCRIPTION	BY	DATE
	REVISION		

MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

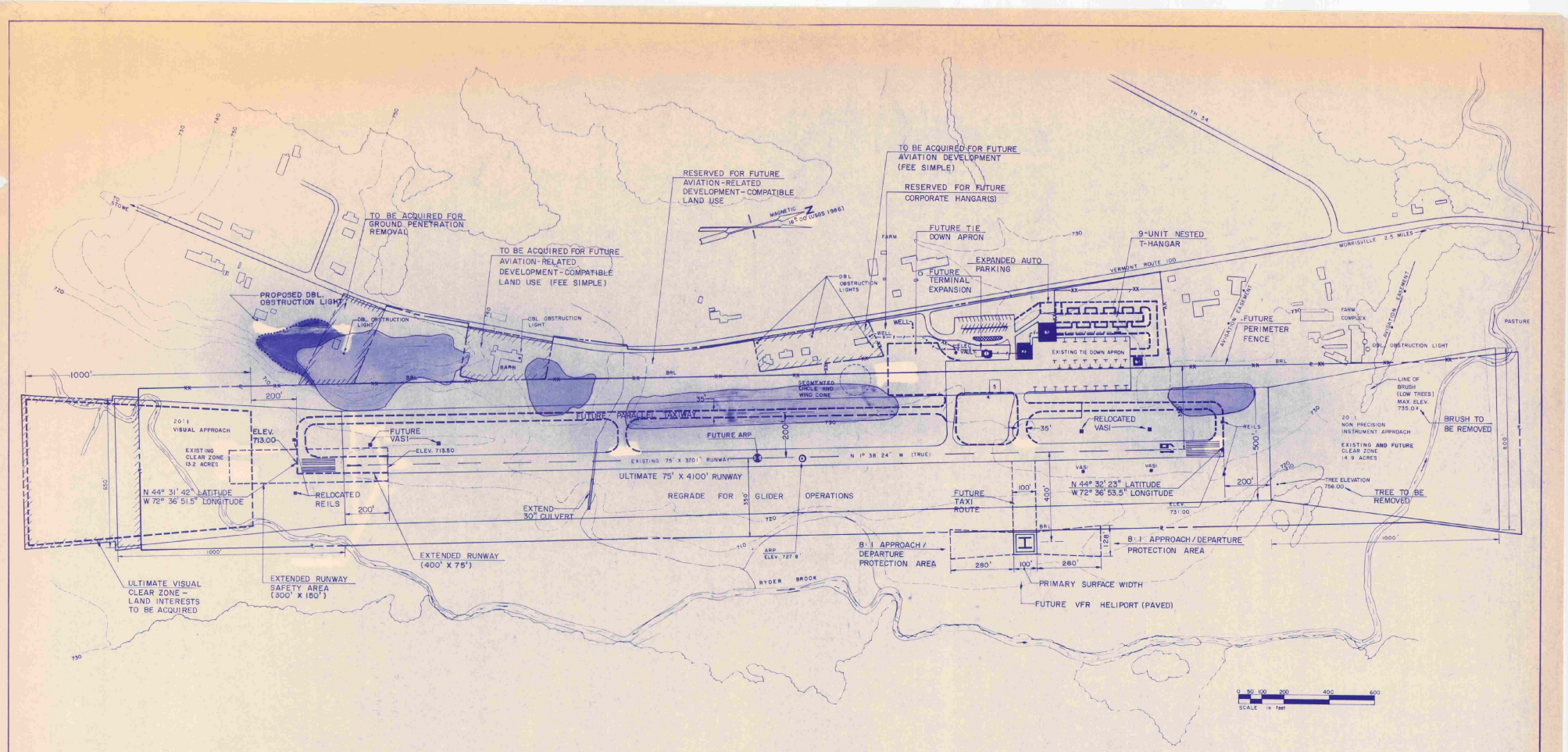
AIRPORT MASTER PLAN

EXISTING TOPOGRAPHY

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS

ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	ENGR. CHK.
D. BILODEAU	
SCALE 1" = 200'	TRADE COORD. CHK
DATE MAY, 1990	TECH. MGR.
PROJECT NO. 88-2742	PROJ. MGR.
FILE NO. 27421701	
DRAWING NO. 3	
SHEET 3 OF 8	REV. NO.



BASIC DATA TABLE

	RUNWAY DATA RUNWAY 01–19	
	EXISTING	ULTIMATE
Effective Runway Gradient in %	0.46%	0.44%
% Wind Coverage	Not Available	Not Available
Instrument Runway	Runway 19	Runway 19
Pavement Strength	12,500 (sw)*	30,000 (sw)*
Approach Slopes and Clear Zones	20:1	20:1
Lighting	MIRLS & MITLS	MIRLS & MITLS
Marking	Non-Precision	Non-Precision
Physical Length	3700'	4100'
Width	75'	75'
Safety Area Length	300'	300'
Width	150'	150'
Obstacle Free Zone	250'	250'
Surface Composition	Asphalt	Asphalt
Approach Category	NDB R/W 19	Improved Non-Precision**
Visual Aids	REILS/VASI-2 R/W 19	REILS/VASI-2 R/W 19
Runway Category	Utility	Utility
Taxiway Width		35'
Aircraft Design Group	II	II
Aircraft Approach Speed Class	B	B

	AIRPORT DATA	
	EXISTING	ULTIMATE
Airport Reference Point (ARP) Coordinates	N 44° 32' 04.4" Lat. W 72° 36' 52.4" Long.	N 44° 32' 02.5" Lat. W 72° 36' 52.4" Long.
Airport Elevation	732.1 MSL	732.1 MSL
Mean Maximum Temperature of Hottest Month	79.9°	79.9°
Navigational Aid	NDB	NDB

*Values given are gross aircraft weight for single wheel (SW)

**See technical report for further discussion.

LEGEND

	EXISTING	ULTIMATE
Building Restriction Line	BRL	BRL
Airport Buildings and Hangars		As shown
Airport Property Line		
Property to be Acquired		
Easement to be Acquired		
Contour Lines		
Fence	-X-X-X-	-XX-XX-
Tree Line		
Airport Pavement		
Safety Area and Clear Zone	As shown	As shown
Ground Penetrations		
Airport Reference Point (ARP)		

AIRPORT FACILITIES

	EXISTING	ULTIMATE
1	Terminal Building	Same
2	F.B.O. Hangar	Same
3	Aircraft Storage	As shown
4	Aircraft Fuel	Same
5	Concrete Aircraft Fueling Apron	Same

Notes: Due to lack of site specific wind data no wind roses are available.

F.A.A. waiver ~~required~~ for Runway/Taxiway separation.

Waivers may be required for ground penetrations to specified Part 77 surfaces.

APPROVED	APPROVED
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	VERMONT AGENCY OF TRANSPORTATION
Airports Division Planning Branch	Secretary
Date MAR 15 1991	Date 2/8/91

NO.	DESCRIPTION	BY	DATE
	REVISION		

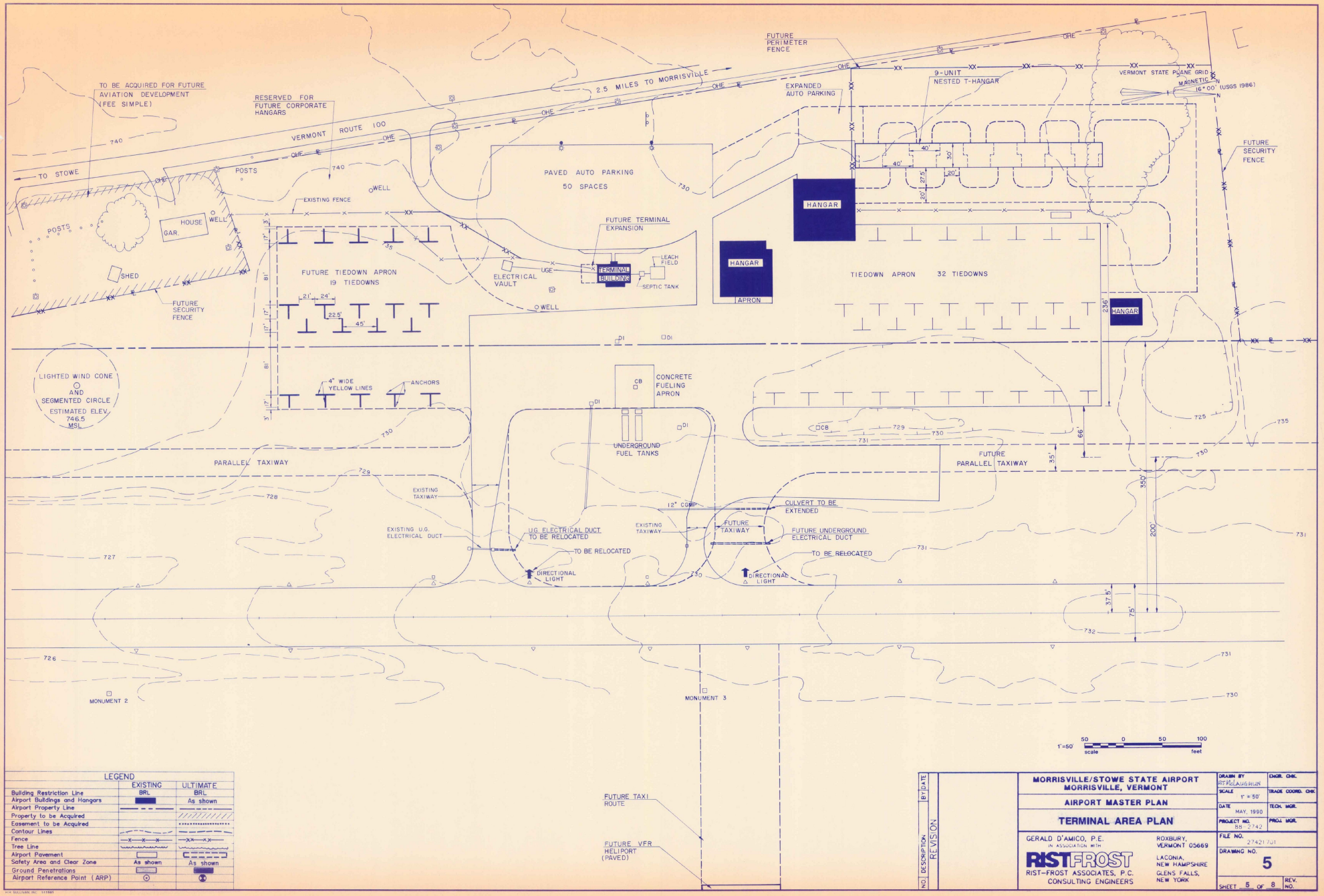
MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

AIRPORT LAYOUT PLAN

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	ENGR. CHK.
RT. McLAUGHLIN	
SCALE 1" = 200'	TRADE COORD. CHK
DATE MAY, 1990	TECH. MGR.
PROJECT NO. 88-2742	PROJ. MGR.
FILE NO. 27421701	
DRAWING NO. 4	
SHEET 4 OF 8	REV. NO.



LEGEND	EXISTING	ULTIMATE
Building Restriction Line	BRL	BRL
Airport Buildings and Hangars		As shown
Airport Property Line		
Property to be Acquired		
Easement to be Acquired		
Contour Lines		
Fence		
Tree Line		
Airport Pavement		
Safety Area and Clear Zone	As shown	As shown
Ground Penetrations		
Airport Reference Point (ARP)		

NO.	DESCRIPTION REVISION	BY	DATE

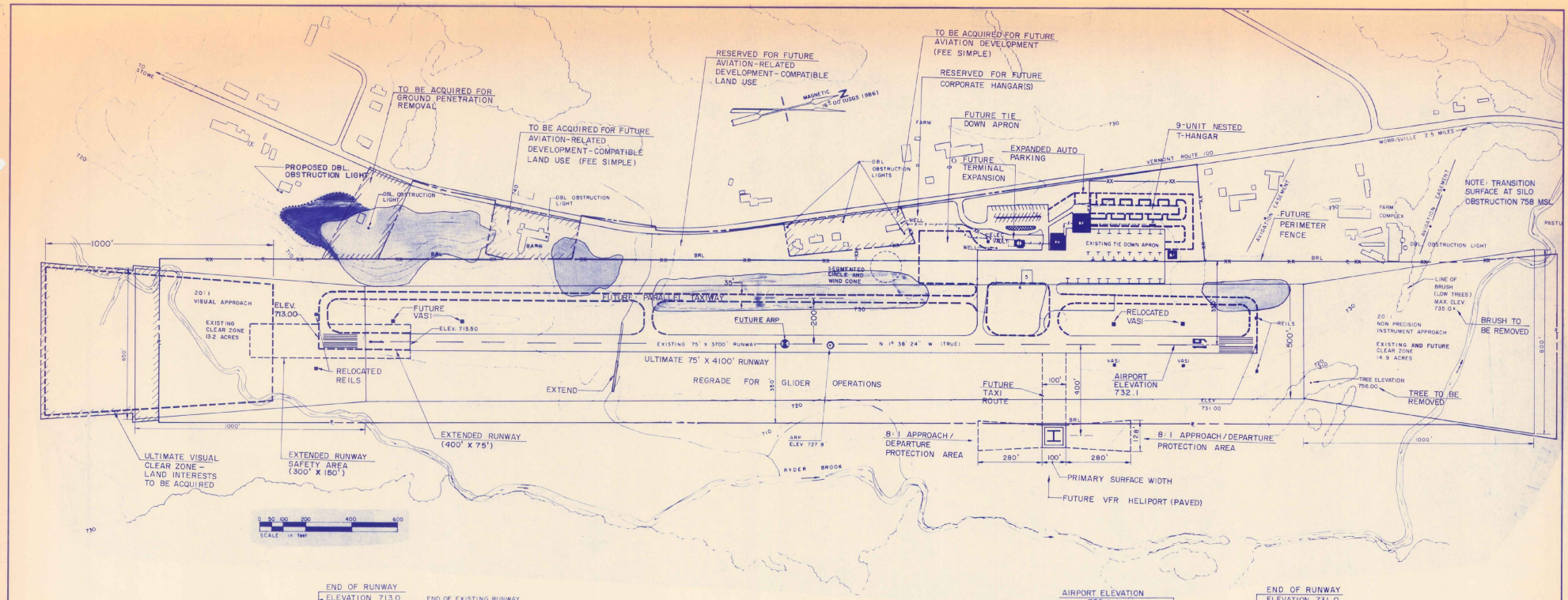
MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

TERMINAL AREA PLAN

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	PTMCLAUGHLIN
CHKD. CHK.	
SCALE	1" = 50'
TRADE COORD. CHK	
DATE	MAY, 1990
TECH. WOR.	
PROJECT NO.	88-2742
PROJ. MGR.	
FILE NO.	27421701
DRAWING NO.	5
SHEET	5 OF 8
REV. NO.	



LEGEND

- EXISTING AVIATION BUILDINGS
- EXISTING NON-AVIATION RELATED BUILDINGS

HORIZONTAL 0 100 200 400 600

VERTICAL 40 30 20 10 5 0

GRAPHIC SCALES IN FEET

NO.	DESCRIPTION REVISION	BY	DATE

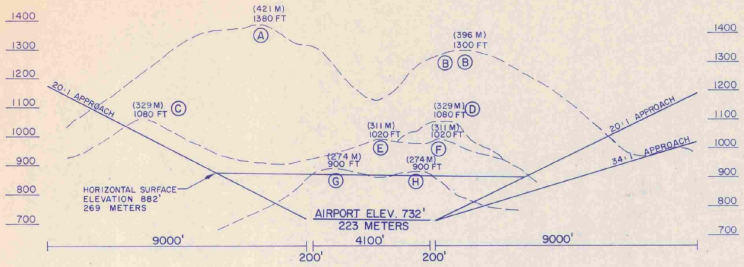
MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

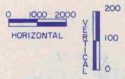
AIRPORT MASTER PLAN

RUNWAY PLAN & PROFILE

DRAWN BY: RT MCLAUGHLIN | ENGR. CHK.
SCALE: 1" = 200' | TRADE COORD. CHK.
DATE: MAY 1990 | TECH. MGR.
PROJECT NO.: 88-2742 | PROJ. MGR.
FILE NO.: 27421701
DRAWING NO.: 6
SHEET 6 OF 8 | REV. NO.

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK





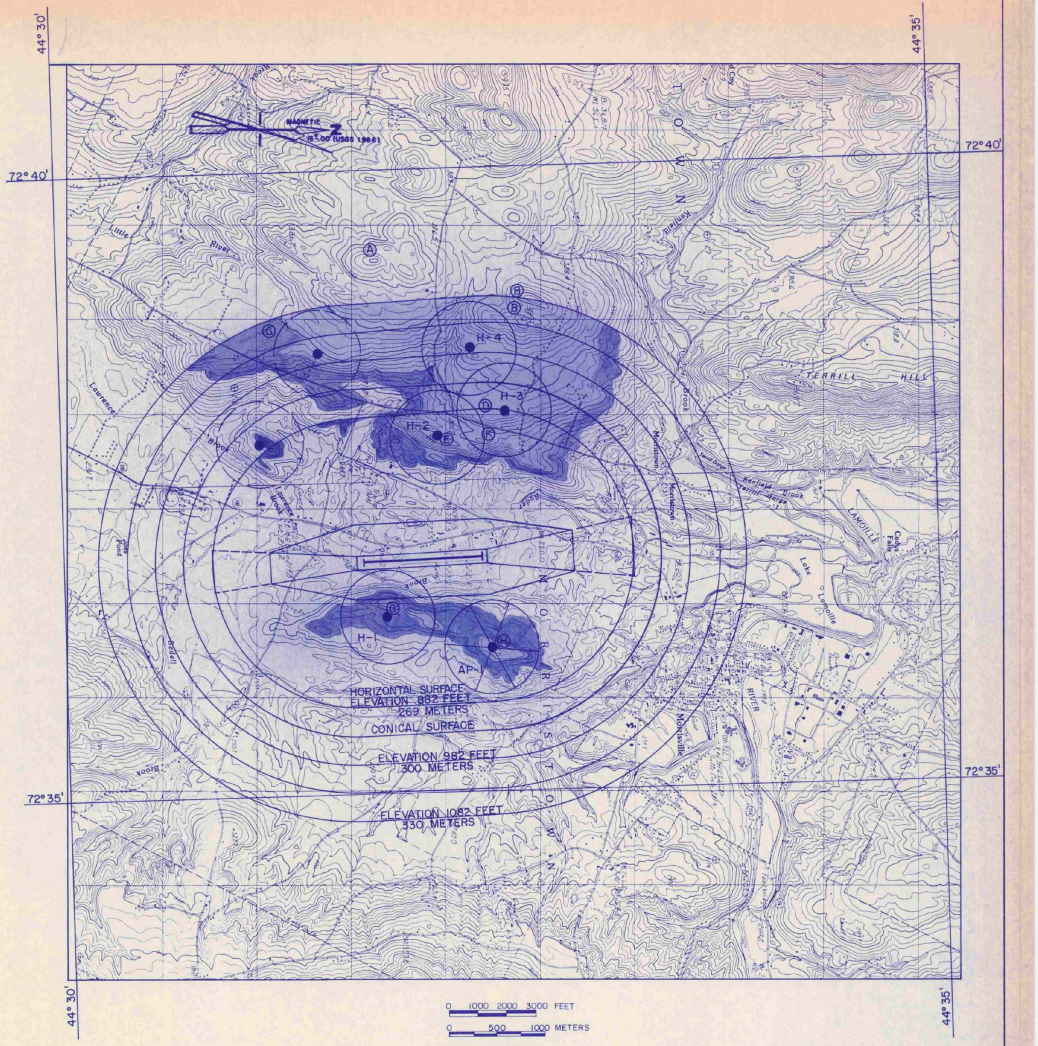
GRAPHIC SCALE

NOTES

1. SEE DRAWING NO. 3 (EXISTING TOPOGRAPHY) AND DRAWING NO. 6 (PLAN AND PROFILE) FOR FURTHER DETAIL OF GROUND OBSTRUCTIONS IN IMMEDIATE AIRPORT ENVIRONMENT.
2. BASE MAP IS USGS QUADRANGLE MAPS 44072-E5-TM-024 (1986) AND 44072-E6-TM-024(1986).
3. HORIZONTAL DATUM IS BASED ON VERMONT GRID COORDINATE SYSTEM. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL.

LEGEND

- TREE PENETRATIONS (ASSUMED 50' TREE HEIGHT)
- GROUND PENETRATIONS
- EXISTING HAZARD BEACONS CIRCLE OF INFLUENCE (RADIUS) = 1500' (H-1 TO H-4)
- 36" ROTATING BEACON (AP-1)
- FUTURE HAZARD BEACONS
- (A) GROUND ELEVATIONS
- GROUND ELEVATIONS PROFILE



GRAPHIC SCALE

NO.	DESCRIPTION	BY	DATE
	REVISION		

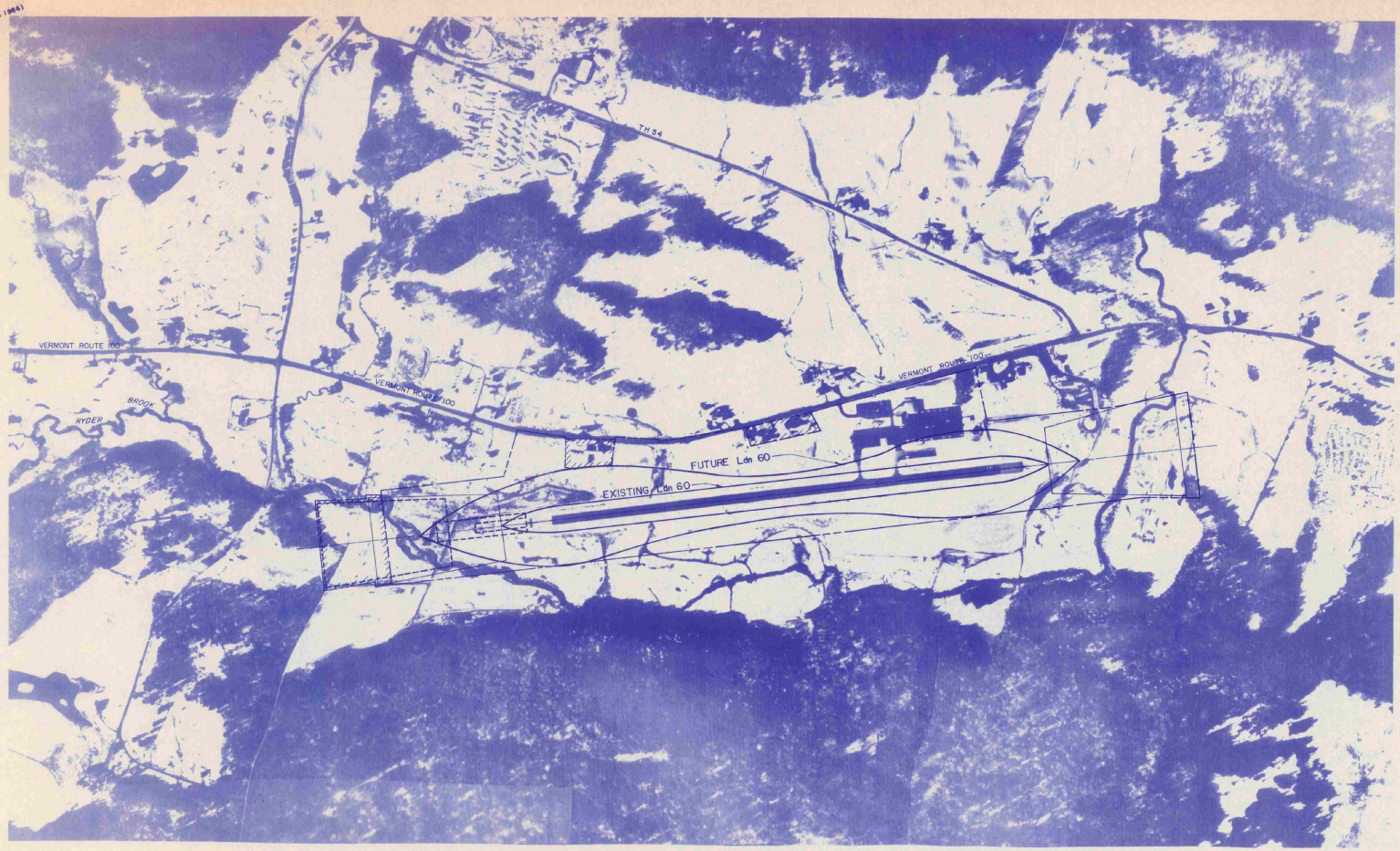
MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

IMAGINARY SURFACES - F.A.R. PART 77

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	F.T. McLAUGHLIN
ENGR. CHK.	
SCALE	AS SHOWN
TRADE COORD. CHK.	
DATE	MAY, 1990
TECH. MGR.	
PROJECT NO.	88-2742
PROJ. MGR.	
FILE NO.	27421701
DRAWING NO.	7
SHEET	7 OF 8
REV. NO.	



NO.	DESCRIPTION	BY/DATE
	REVISION	

MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

LAND USE PLAN

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY: D. BLISPEAN	ENGR. CHK.
SCALE: 1" = 400'	TRADE COORD. CHK.
DATE: MAY, 1990	TECH. MGR.
PROJECT NO.: 88-2742	PROJ. MGR.
FILE NO.: 27421701	
DRAWING NO.: 8	
SHEET 8 OF 8	REV. NO.

NO.	DESCRIPTION	BY/DATE
	REVISION	

MORRISVILLE/STOWE STATE AIRPORT
MORRISVILLE, VERMONT

AIRPORT MASTER PLAN

LAND USE PLAN

GERALD D'AMICO, P.E.
IN ASSOCIATION WITH
RIST-FROST ASSOCIATES, P.C.
CONSULTING ENGINEERS
ROXBURY, VERMONT 05669
LACONIA, NEW HAMPSHIRE
GLENS FALLS, NEW YORK

DRAWN BY	ENGR. CHK.
D. BILODEAU	
SCALE 1" = 400'	TRADE COORD. CHK
DATE MAY, 1990	TECH. MGR.
PROJECT NO. 88-2742	PROJ. MGR.
FILE NO. 27421701	
DRAWING NO. 8	
SHEET 8 OF 8	REV. NO.