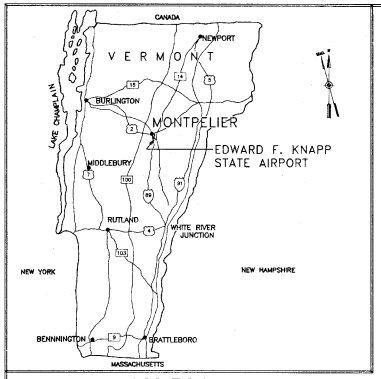
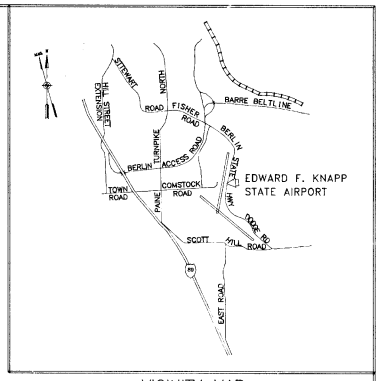


LOCATION MAP
NOT TO SCALE

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MASTER PLAN
EDWARD F. KNAPP
STATE AIRPORT



VICINITY MAP
NOT TO SCALE

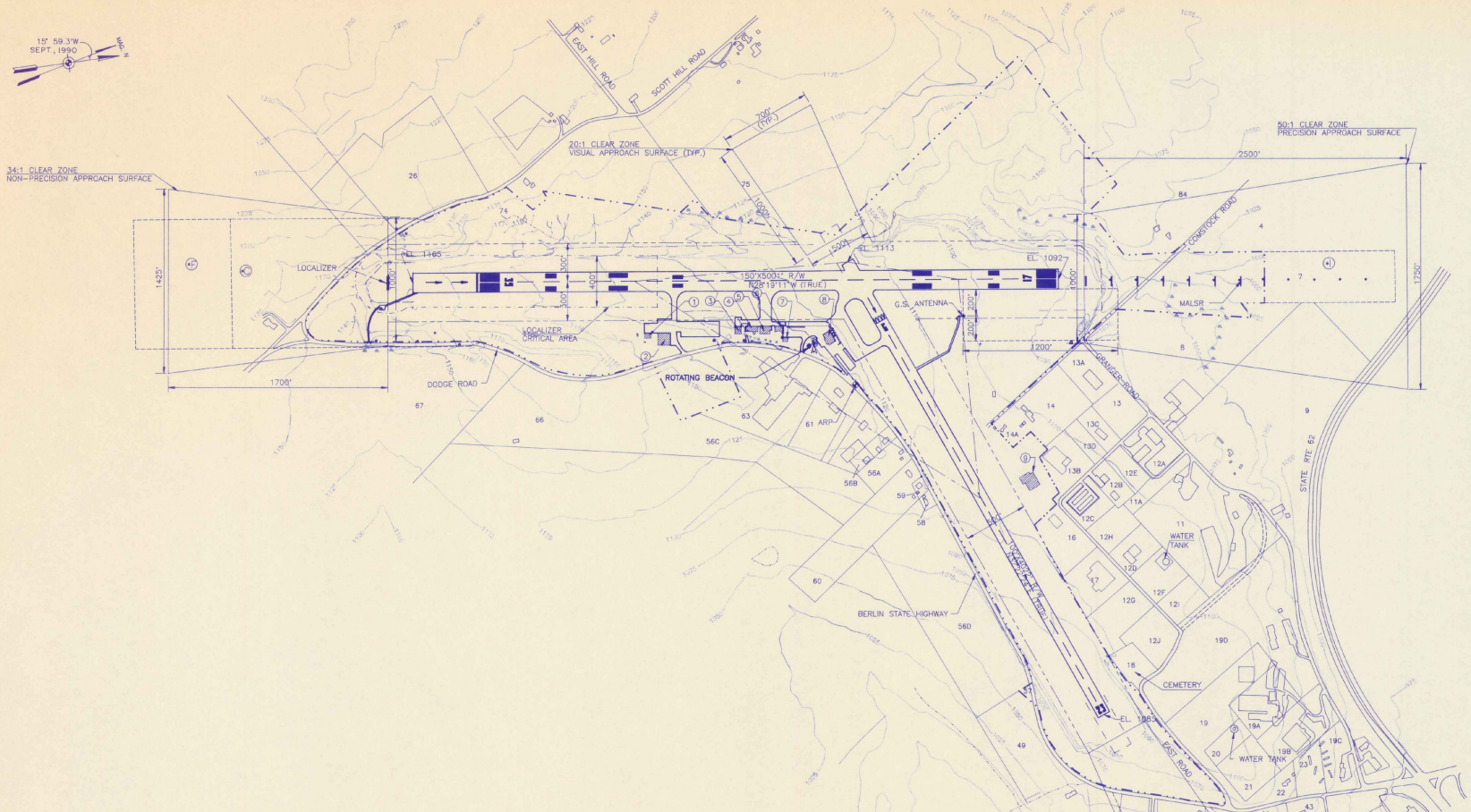
FAA PROJECT NO. 3-50-0001-0186
VAOT PROJECT NO. AIR 03-2047

INDEX TO DRAWINGS

1. EXISTING AIRPORT LAYOUT PLAN
2. AIRPORT LAYOUT PLAN
3. DATA SHEET
4. TERMINAL AREA PLAN - SOUTH
5. TERMINAL AREA PLAN - NORTH
6. AIRPORT IMAGINARY SURFACES PLAN
7. PLAN AND PROFILE RUNWAY 17-35
8. PLAN AND PROFILE RUNWAY 5-23
9. LAND USE PLAN

MARCH, 1991

HOYLE, TANNER & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS/SURVEYORS
BEDFORD, NEW HAMPSHIRE



LEGEND	
ITEM	EXISTING
AIRPORT PROPERTY LINE	
*MISCELLANEOUS PROPERTY LINE	
CONTOURS (USGS-MSL) DATUM	
AIRPORT REFERENCE POINT (ARP)	
AIRPORT ROTATING BEACON	
BUILDING RESTRICTION LINE (B.R.L.)	
AVIGATION EASEMENT	
FEE ACQUISITION	
MISCELLANEOUS EASEMENTS	
AIRPORT BUILDINGS/FACILITIES	
MISC. BUILDINGS/FACILITIES	
G.S./LOC. CRITICAL AREA	
RUNWAYS/TAXIWAYS	
MARSH/WETLAND	
TREELINE/BRUSH	
SURFACE WATER	
RUNWAY VISIBILITY ZONE	
SAFETY AREA	
ROADS	
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	

*NOTE: SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES	
NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE)
4	GREEN MOUNTAIN AIR SALES (PRIVATE)
5	STATE HANGAR
6	VERMONT FLYING SERVICE
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74	
USE OF STATE PAVING SPECIFICATION			4/30/75	
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75	

GRAPHIC SCALE
400 0 200 400 800
SCALE IN FEET

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPR. BY	DATE

PROJECT NO. 60802
FILE NAME 60BEALP
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North, Bedford, New Hampshire 03102
engineers architects planners Companies surveyors

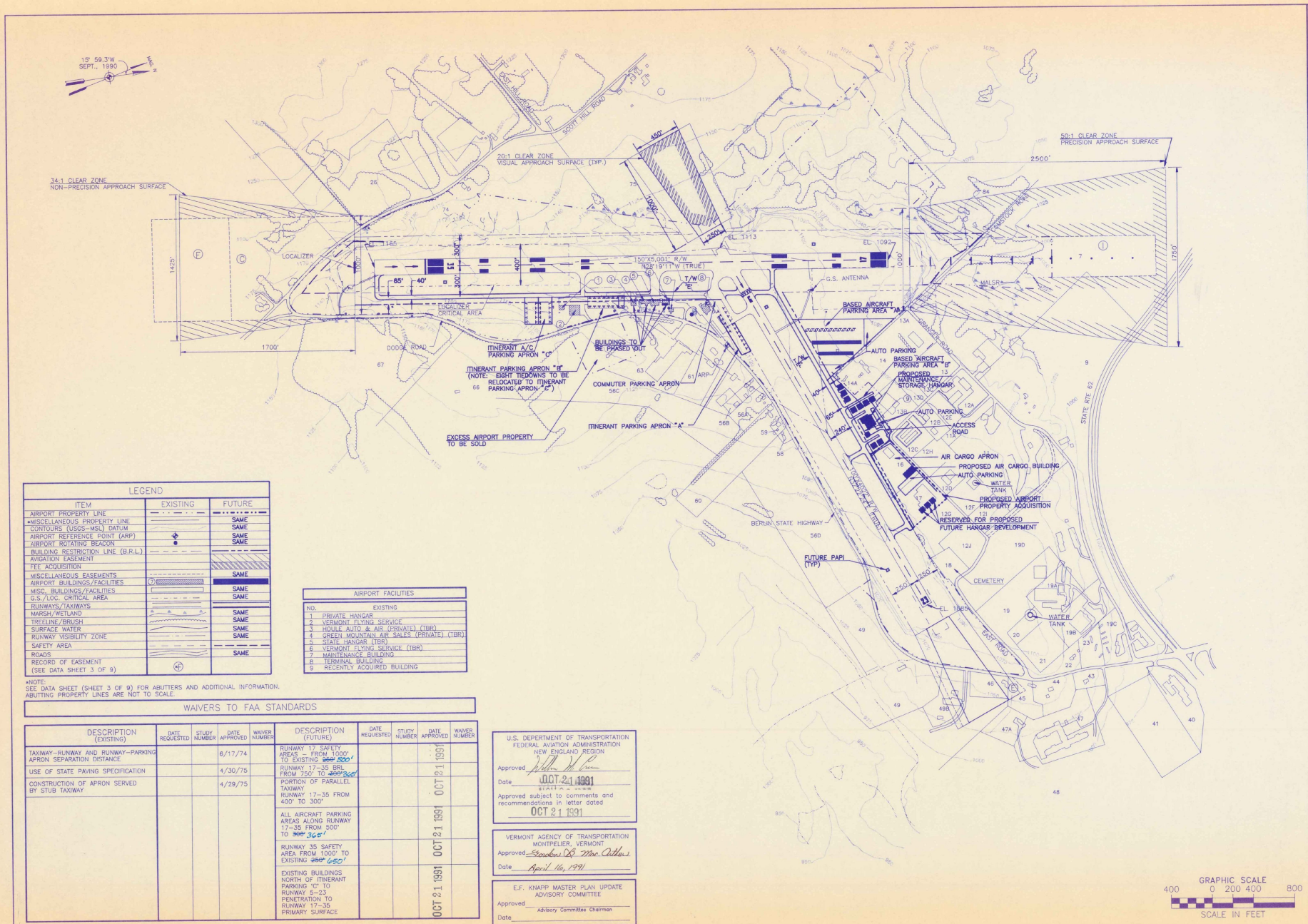
SCALE: 1"=400' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

EXISTING AIRPORT LAYOUT PLAN

DRAWING NO. 1

SHEET 1 OF 9



LEGEND

ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74	
USE OF STATE PAVING SPECIFICATION			4/30/75	
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75	

DESCRIPTION (FUTURE)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
RUNWAY 17 SAFETY AREAS - FROM 1000' TO EXISTING ~~850'~~ 500'			OCT 21 1991	
RUNWAY 17-35 BRL FROM 750' TO ~~300'~~ 365'			OCT 21 1991	
PORTION OF PARALLEL TAXIWAY RUNWAY 17-35 FROM 400' TO 300'			OCT 21 1991	
ALL AIRCRAFT PARKING AREAS ALONG RUNWAY 17-35 FROM 500' TO ~~300'~~ 365'			OCT 21 1991	
RUNWAY 35 SAFETY AREA FROM 1000' TO EXISTING ~~750'~~ 650'			OCT 21 1991	
EXISTING BUILDINGS NORTH OF ITINERANT PARKING "C" TO RUNWAY 5-23 PENETRATION TO RUNWAY 17-35 PRIMARY SURFACE			OCT 21 1991	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION
Approved [signature]
Date OCT 21 1991
Approved subject to comments and recommendations in letter dated
OCT 21 1991

VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
Approved Stephen R. Mac Arthur
Date April 16, 1991

E.F. KNAPP MASTER PLAN UPDATE
ADVISORY COMMITTEE
Approved _____
Advisory Committee Chairman
Date _____

ENGINEER/ARCHITECT

REV.	DESCRIPTION	BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802
FILE NAME 60BALP
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc. HTA engineers architects planners surveyors
Five Commerce Park North, Bedford, New Hampshire 03102

SCALE: 1"=400'	DATE: MARCH, 1991	DES. BY JEP	DR. BY HW	CHKD. BY NJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

AIRPORT LAYOUT PLAN

DRAWING NO. 2

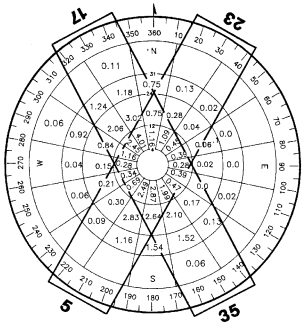
SHEET 2 OF 9

PLOT No.	CURRENT OWNER
1	Alow, Chester & Ella
2	Woodbury, Harold & Ola
3	Sandibrien, Joseph
4	Berlin Properties, Inc.
5	Batch, Elizabeth and Clark, Anita
6	Berlin Properties, Inc.
6A	Alleca, Frank
7	State of Vermont
8	Wood, Donald
9	Cooley Asphalt Paving
10	A. G. Anderson, Inc.
11	Royea, Cecil Jr., & Vicki
11A	Zahm, Michael & Christine
12A	Langevin, Wilfred, Jr., & Jean
12B	LaPrade Realty
12C	D & D Investment Corp.
12D	Mountain Cable Co.
12E	Langevin, Wilfred, Jr. & Jean and Pollard, Wilson & Elizabeth
12F	Galfetti, Eugene
12G	Galfetti, Eugene
12H	Lague, Inc.
12I	Lague, Inc.
12J	Lague, Inc.
13	Viateur, Fecteau Construction, Inc.
13A	Heney, Lawrence & Mary
13B	Nicom Coatings Corp.
13C	Poli, Edward
13D	Viateur, Fecteau Construction, Inc.
14	Parker, Charles
14A	Comstock, Elwin & Pearl
15	Huntington Homes, Inc.
16	Stroutsos, Raymond
17	Rodman, Donald & Gerald and Pinta, Irving
18	Town of Berlin (Cemetery)
19	Staudt, Richard & Jane
19A	Tennis Unlimited
19B	Wavan Associates
19C	Lamb, Lawrence & Jacquelin
19D	Vermont Health Services Corp.
20	Central Vermont Hospital, Inc.
21	Lague, Henry
22	Blow, Chester & Ella
23	Brock, Bernard
40	Lague, Inc.
41	Baril, Paul, Norman & Raymond
43	Buxton, Roy & Beatrice
44	Diego, Richard & Rita
45	Roux, Francis & Jeanette
46	Parks, Steven
47	Berlin C.C., Inc.
47A	Johnson, Raymond & Donna
48	Chapple, John, III c/o Merlia Management Services
49	Kelley, Kathryn
49A	Lague, Henry
49b	Christ the Redeemer Evangelical Lutheran Church, Inc.
56	Levinsky, Bruce
56A	Miller, H. Lincoln, Jr., & Margaret
56B	Prescott, Everett J., Inc.
56C	Levinsky, Bruce
56D	Levinsky, Bruce
57	State of Vermont
58	Corriveau, J. Williams & Mary
59	Junawicz, David & Linda
60	Brown, Virginia and Burrington, Stella
61	Fecteau, Viateur Construction, Inc.
62	State of Vermont
63	Design Sales Systems, Inc.
66	Perrin, Henry, II, David & Marylin
67	Dodge, George
73	State of Vermont
74	Mier, Della
75	Perrin, Marion & Henry, II
76	Chartrand, Alderict & Priscilla
84	Perry, Joseph Sr., & Martha
	Properties South of Scott Hill Road
26	Couillard, Albert & Fish, George & Vivian
27	Dodge, George

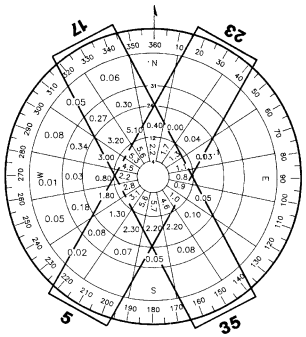
Ownership as of 2-2-87
Ownership based on information at Berlin Town Clerk's office, plot numbers refer to assessment map reference numbers

RECORD OF EASEMENT

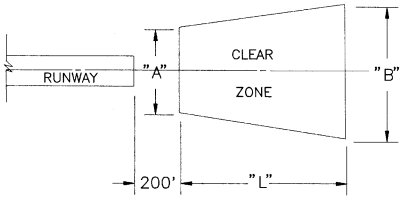
PARCEL No.	PROPERTY OWNER	
C	DODGE	EASEMENT AREA & CLEAR AREA
D	DODGE	R.O.W. TO BEACON
E	COMSTOCK	EASEMENT & CLEAR AREA
F	WOODBURY	EASEMENT & CLEAR AREA
F	DODGE	QUADRANT
G	PRESCOTT	POLE LINE EASEMENT W.D.-05
H	STEVENS	POWERLINE EASEMENT & R.O.W.-05
I	BERLIN PROPERTIES, INC.	AVIGATION EASEMENT W.D.-03
J	BROWN & BURRINGTON	POWERLINE EASEMENT W.D.-05



IFR WIND ROSE
IFR WEATHER OCCURS 10.6% OF THE TIME
12 MPH CROSSWIND COVERAGE RWY 5-23=85.6%
12 MPH CROSSWIND COVERAGE RWY. 17-35=92.6%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS =98.2%
=55.3% CALMS + 0-4MPH
NO. OF OBSERVATIONS 4,662 PERIOD 1950-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



ALL WEATHER WIND ROSE
12 MPH CROSSWIND COVERAGE RWY 5-23 =84.8%
12 MPH CROSSWIND COVERAGE RWY 17-35=92.2%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS = 96.7%
=29.3% CALMS + 0-4 MPH
NO. OF OBSERVATIONS 51,840 PEIOD 1949-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



AIRPORT DATA

ITEM	EXISTING	FUTURE
AIRPORT ELEVATION (U.S.G.S.-M.S.L.)	1165'	SAME
OPERATIONAL ROLE	COMMER. SERV. OTHER	SAME
MEAN MAX. TEMP. HOTTEST MONTH	84.6°F	SAME
AIRPORT CATEGORY	SHORT HAUL	SAME
TERMINAL NAVAIDS	VOR	LOC/VOR
COMBINED WIND COVERAGE (A/W)	96.7% (12MPH)	SAME
DIST. & DIR. TO MONTPELLIER	3 NM WEST	SAME
LAND OWNED IN FEE (ACRES)	263	* 265
AVIGATION EASEMENT (ACRES)	51.27	124.27
OWNER	STATE OF VERMONT	SAME
MAGNETIC DECLINATION	15° 59.3' W	VARIES
AIRCRAFT DESIGN GROUP	II	SAME
AIRCRAFT APPROACH SPEED CLASS	B	SAME
AIRPORT REFERENCE POINT (ARP)	44°12'12.4N 72°33'46.0W	SAME

* 5 ACRES WILL POSSIBLY BE SOLD BY AIRPORT

CLEAR ZONE DATA

RUNWAY	CATEGORY	APPROACH SLOPE	"L"	"A"	"B"
17	PRECISION	50:1	2,500'	1,000'	1,750'
35	NON-PRECISION	34:1	1,700'	1,000'	1,425'
5	VISUAL	20:1	1,000'	500'	700'
23	VISUAL	20:1	1,000'	500'	700'
5 (FUTURE)	VISUAL	20:1	1,000'	250'	450'
23 (FUTURE)	VISUAL	20:1	1,000'	250'	450'

RUNWAY DATA

ITEM	RUNWAY 17-35 EXISTING	RUNWAY 17-35 FUTURE	RUNWAY 5-23 EXISTING	RUNWAY 5-23 FUTURE
PHYSICAL LENGTH	5,001'	SAME	4,022'	SAME
WIDTH	150'	SAME	100'	SAME
SAFETY AREA WIDTH	-	523 *	-	150' *
TAXIWAY WIDTHS	40'	SAME	40'	SAME
SURFACE COMPOSITION	ASPHALT	SAME	ASPHALT	SAME
PVMT. STRENGTH (x1000#)	31SW/44DW	SAME	30SW/46DW	SAME
PAVEMENT TYPE	ASPHALT	SAME	ASPHALT	SAME
RUNWAY LIGHTING	MIRLS	SAME	MIRLS	SAME
RUNWAY MARKING	PRECISION	SAME	BASIC	SAME
EFFECTIVE GRADIENT (%)	1.46%	SAME	0.79%	SAME
A/W WIND COVERAGE (%) 12mph	92.2%	SAME	84.8%	SAME
APPROACH AIDS	ILS LOC RW17 VOR/NDB RW35 MALSR RW 17 REIL RW35	SAME	NONE	SAME
VISUAL AIDS	REIL RW35	PAPI RW 17 RW 35	NONE	PAPI RW 5 RW 23
CRITICAL AIRCRAFT APPR.SPD.	CITATION III (B)	SAME	BE99(B)	SAME
CRITICAL AIRCRAFT WINGSPAN	CITATION III (II)	SAME	BE99(II)	SAME
RUNWAY BEARINGS	N28°19'11"W (TRUE)		N32°22'24"E (TRUE)	

RUNWAY END COORDINATES		LATITUDE	LONGITUDE
	5	44° 12' 08.77" N	72° 33' 56.72" W
	23	44° 12' 42.31" N	72° 33' 27.18" W
	17	44° 12' 23.62" N	72° 34' 05.64" W
	35	44° 11' 40.15" N	72° 33' 33.08" W

* REQUIRED

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPR. BY	DATE

PROJECT NO. 60802
FILE NAME 60802ATA
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North, Bedford, New Hampshire 03102
HTA engineers architects planners Companies surveyors

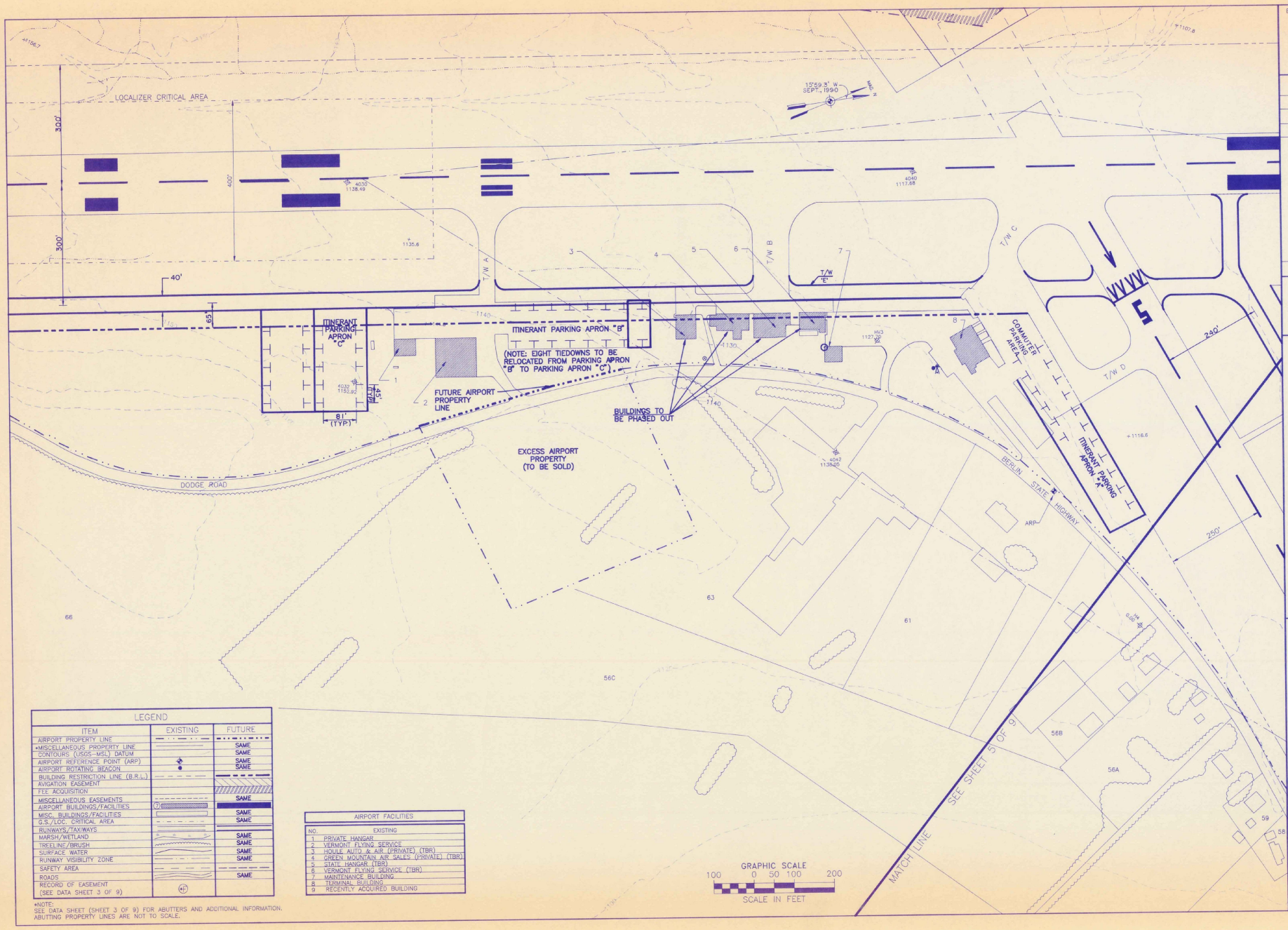
CHKD. BY RUD
DR. BY HW
DES. BY JEP
DATE: MARCH, 1991
SCALE: N.T.S

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

DATA SHEET

DRAWING NO. 3

SHEET 3 OF 9



LEGEND

ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS–MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPR. BY	DATE

PROJECT NO. 60802

FILE NAME 60953ALP

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
engineers architects planners environmental scientists surveyors
Five Commerce Park North, Bedford, New Hampshire 03102

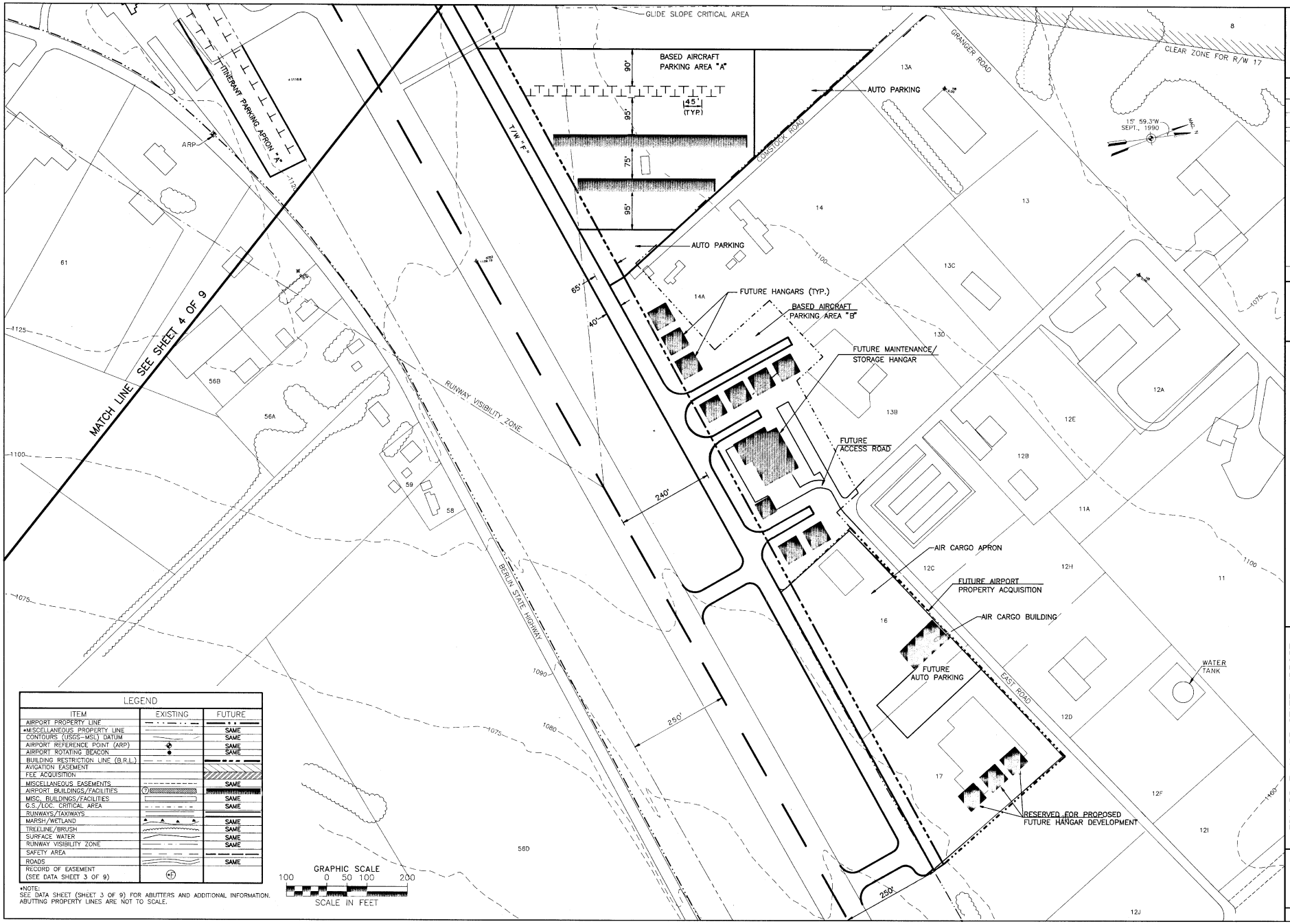
CHKD. BY RJD | DR. BY HW | DES. BY JEP | DATE MARCH, 1991 | SCALE: 1" = 100'

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

TERMINAL AREA PLAN–SOUTH

DRAWING NO. 4

SHEET 4 OF 9



LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPR. BY	DATE

PROJECT NO. 60802

FILE NAME 608NTALP

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc. HTA engineers environmental planners architects surveyors
Companies
Five Commerce Park North, Bedford, New Hampshire 03102

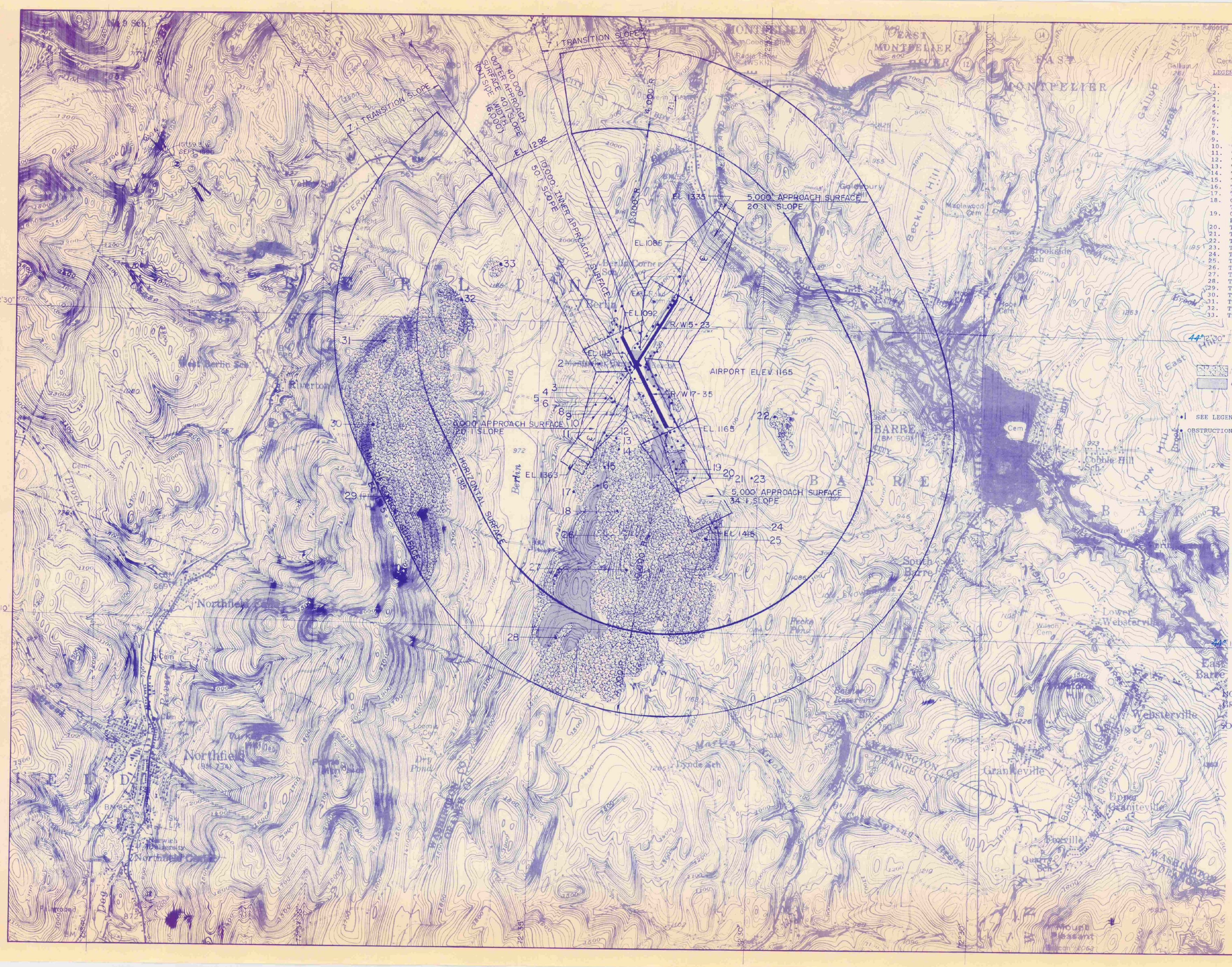
SCALE: 1"=100' | DATE: MARCH, 1991 | DES. BY: JEP | DR. BY: HW | CHKD. BY: RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

TERMINAL AREA PLAN-NORTH

DRAWING NO. 5

SHEET 5 OF 9



ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North · Bedford, NH 03102 · (603) 669-5555
HTA Companies — engineers architects planners surveyors

SCALE 1" = 2000' | DATE MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

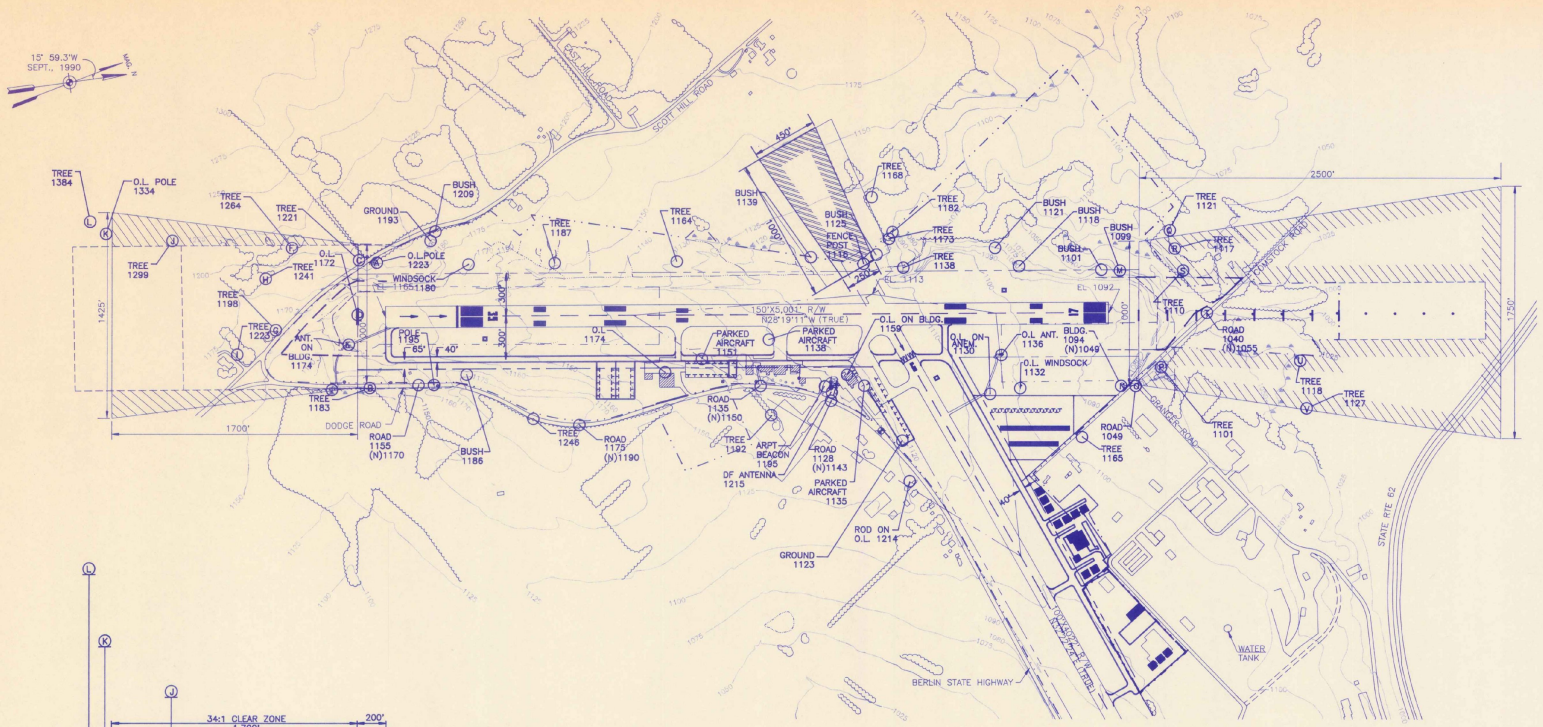
DO NOT SCALE DRAWING

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

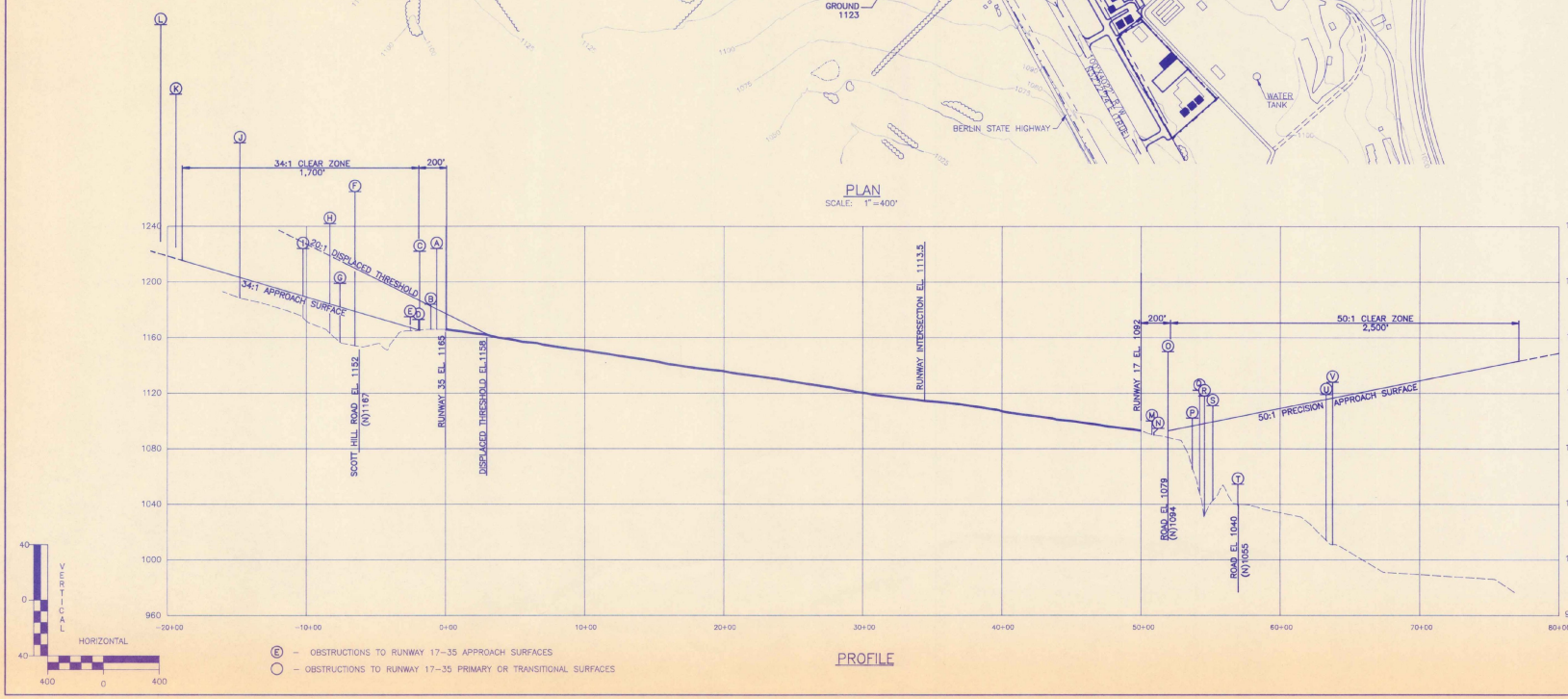
FAR PART 77 SURFACES PLAN

DRAWING NO. 6

SHEET 6 OF 9



PLAN
SCALE: 1"=400'



PROFILE

(E) – OBSTRUCTIONS TO RUNWAY 17–35 APPROACH SURFACES

(O) – OBSTRUCTIONS TO RUNWAY 17–35 PRIMARY OR TRANSITIONAL SURFACES

ENGINEER/ARCHITECT

REV.	DESCRIPTION	BY	CHKD. APPD.	BY	DATE

PROJECT NO. 60802

FILE NAME 60BP17

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North, Bedford, New Hampshire 03102
engineers
environmental consultants
planners
Companies surveyors

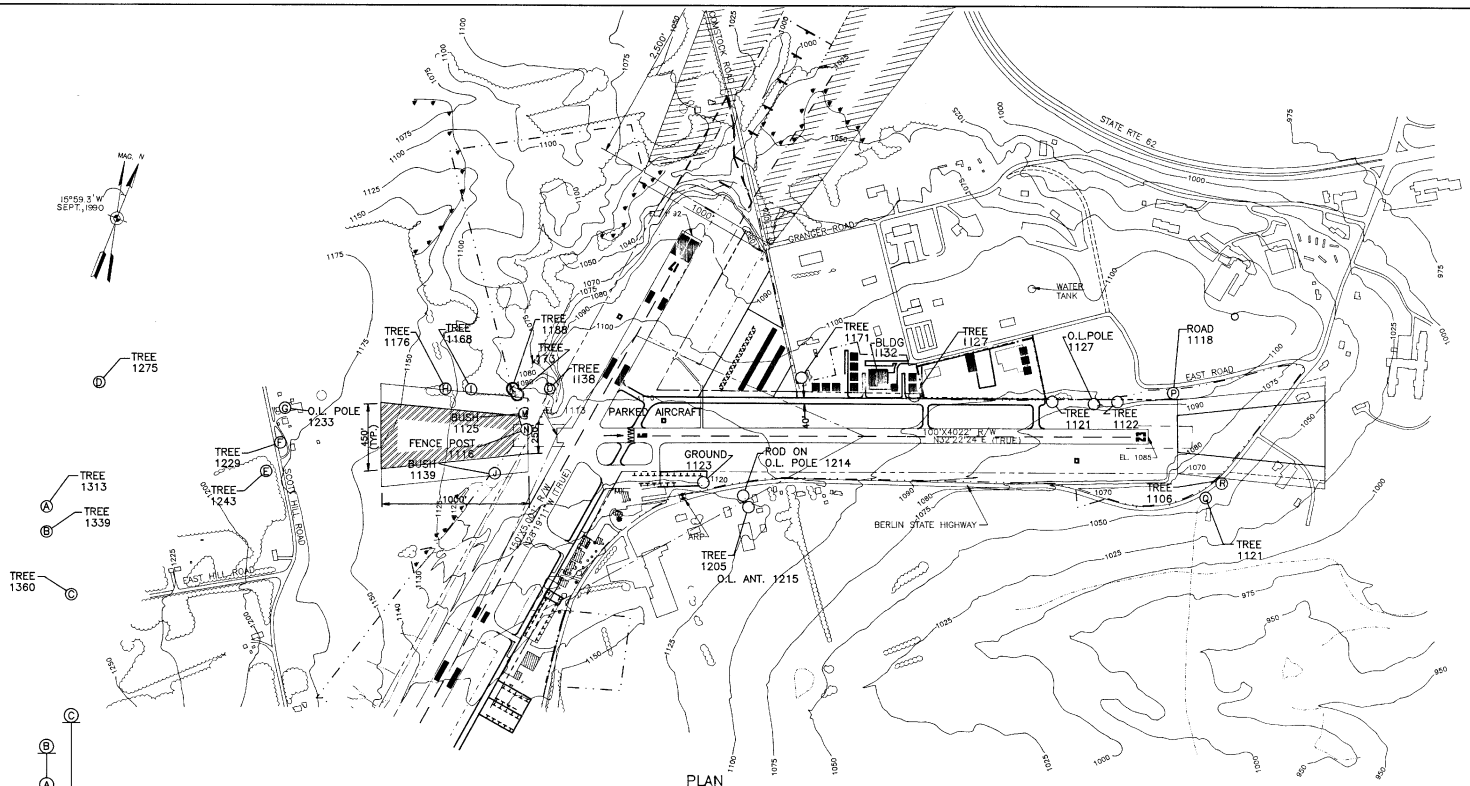
SCALE: AS SHOWN | DATE: MARCH, 1991 | DES. BY: JEP | DR. BY: HW | CHKD. BY: RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

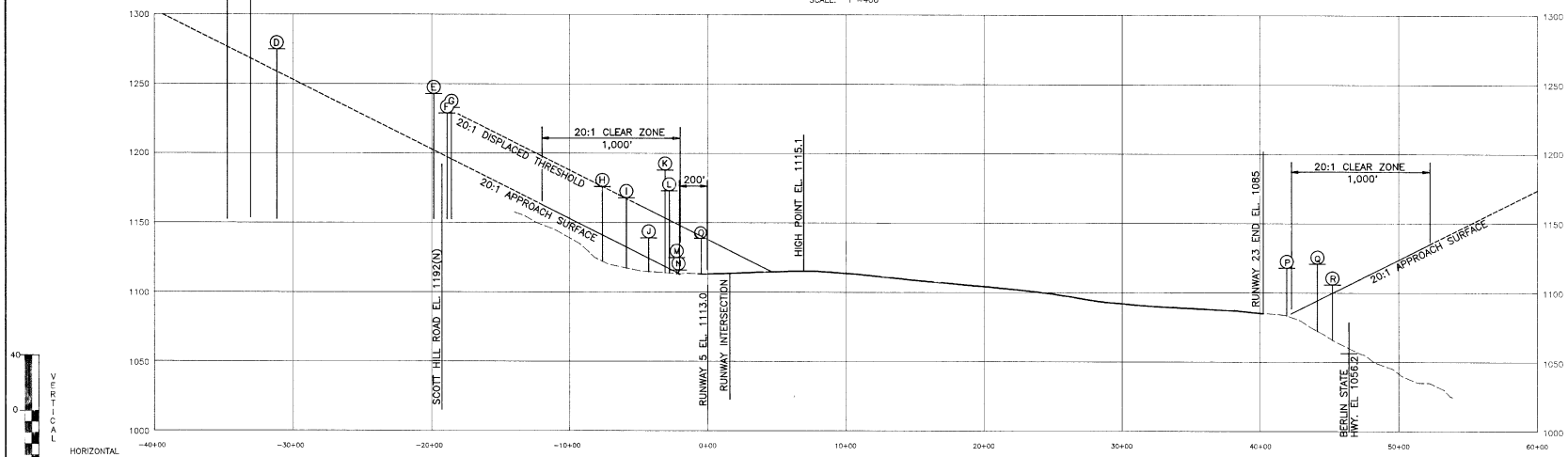
PLAN & PROFILE
RUNWAY 17–35

DRAWING NO. 7

SHEET 7 OF 9



PLAN
SCALE: 1"=400'



(E) – OBSTRUCTIONS TO RUNWAY 5-23 APPROACH SURFACES
(O) – OBSTRUCTIONS TO RUNWAY 5-23 PRIMARY OR TRANSITIONAL SURFACES

PROFILE

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802

FILE NAME 60802PF-S

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
engineers architects planners surveyors
Five Commerce Park North, Bedford, New Hampshire 03102
HTA Companies

SCALE: AS SHOWN | DATE: MARCH, 1991 | DES. BY: JEP | DR. BY: HW | CHKD. BY: RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

PLAN & PROFILE
RUNWAY 5-23

DRAWING NO.
8

SHEET 8 OF 9

15° 59.3'W
SEPT., 1990

MAG. N

EXISTING LDN 60 (1987)

EXISTING LDN 65 (1987)

34:1 CLEAR ZONE
NON-PRECISION APPROACH SURFACE

20:1 CLEAR ZONE
VISUAL APPROACH SURFACE (TYP.)

50:1 CLEAR ZONE
PRECISION APPROACH SURFACE

NOTE:
GRID POINTS
6, 7, 8, & 9
ARE OFF THE
LIMITS OF
THIS DRAWING.

EAST HILL ROAD

SCOTT HILL ROAD

LOCALIZER

GOODE ROAD

ITINERANT A/C APRON "C"

ITINERANT PARKING APRON "B"

COMMUTER PARKING APRON

ITINERANT PARKING APRON "A"

FUTURE LDN 65 (2007)

FUTURE LDN 60 (2007)

BASED AIRCRAFT PARKING AREA "A"

AUTO PARKING

BASED AIRCRAFT PARKING AREA "B"

PROPOSED MAINTENANCE STORAGE HANGAR

AUTO PARKING

INDUSTRIAL PARK

AIR CARGO APRON

PROPOSED AIR CARGO BUILDING

AUTO PARKING

PROPOSED AIRPORT PROPERTY ACQUISITION

RESERVED FOR PROPOSED FUTURE HANGAR DEVELOPMENT

BERLIN STATE HIGHWAY

FUTURE PAPI (TYP)

CEMETERY

SHOPPING CENTER

MOTEL

REST HOME

LI

C

R

LEGEND

ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		
GRID POINTS *	+1	+1

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

* DETAILED INFORMATION AVAILABLE ABOUT NOISE CONTRIBUTORS AT THIS POINT, IN TECHNICAL REPORT CHAPTER 5.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

ZONING DISTRICTS

C– COMMERCIAL

LN– LIGHT INDUSTRIAL

R– RURAL RESIDENTIAL

GRAPHIC SCALE
400 0 200 400 800
SCALE IN FEET

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. APPD. BY	DATE

PROJECT NO. 60802

FILE NAME 608L_USE

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North, Bedford, New Hampshire 03102
HTA engineers architects planners environmental scientists

SCALE: 1"=400'	DATE: MARCH, 1991	DES. BY JEP	DR. BY HW	CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

NOISE CONTOURS AND LAND USE PLAN

DRAWING NO. 9

SHEET 9 OF 9

U.S.Department
of Transportation

**Federal Aviation
Administration**

AIR 03-2047

New England Region

12 New England Executive Park
Burlington,Massachusetts 01803

OCT 21 1991

RECEIVED
OCT 25 1991
RAIL, AIR &
PUBLIC TRANSPORTATION

Patrick J. Garahan, Secretary
Vermont Agency of Transportation
133 State Street, Administration Building
Montpelier, Vermont 05602

Dear Mr. Garahan,

This letter acknowledges our acceptance of the E. F. Knapp State Airport Master Plan and our approval of the airport layout plan (ALP) prepared by Hoyle, Tanner and Associates of Bedford, NH under AIP grant 3-50-0001-0186 this date.

The development indicated on the ALP is approved subject to the following conditions:

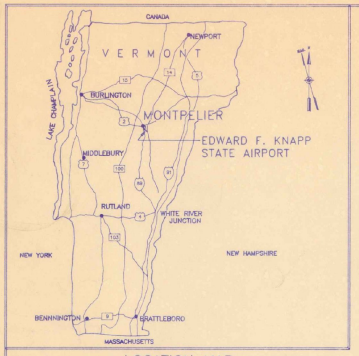
> As noted on sheet 2 of the ALP, waivers to design criteria for runway 17-35 safety areas, building restriction line, aircraft parking line and parallel taxiway separation are made a part of this approval. Buildings, now existing, which penetrate a 1000' wide primary surface for 17-35 are not required to be obstruction lighted.
>
> An environmental assessment for any proposed property acquisition and its intended use, will be prepared.

Review of this master plan and the ALP has been with respect to safety, efficiency and utilization, it does not represent a commitment to provide financial assistance to implement the proposed plan.

Sincerely,

William M. Cronan, Manager
Planning and Development Branch

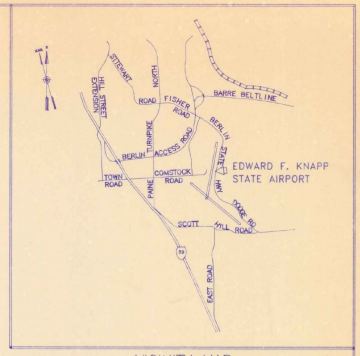
cc: Ludders, HTA



LOCATION MAP
NOT TO SCALE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

MASTER PLAN
EDWARD F. KNAPP
STATE AIRPORT



VICINITY MAP
NOT TO SCALE

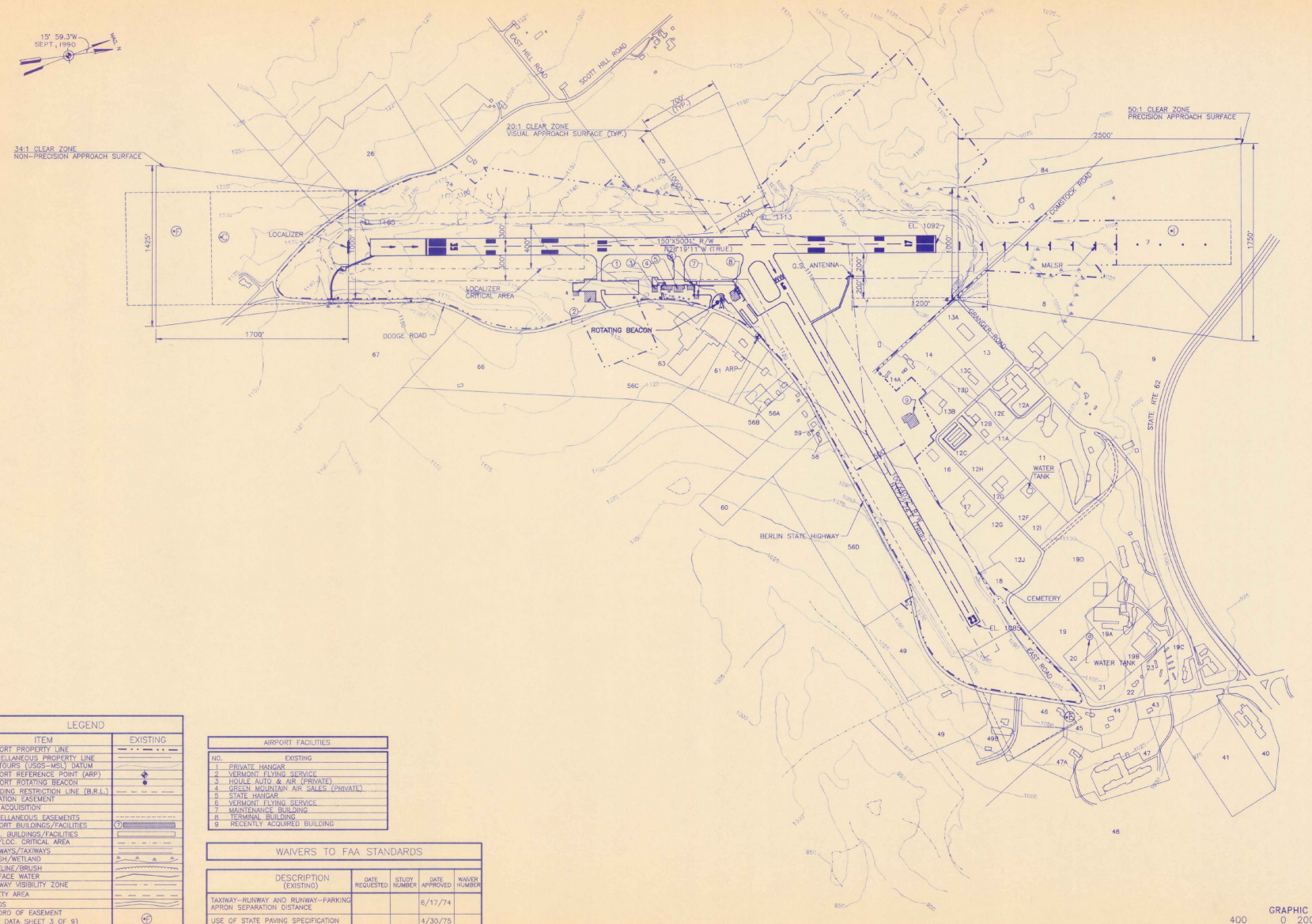
FAA PROJECT NO. 3-50-0001-0186
VAOT PROJECT NO. AIR 03-2047

INDEX TO DRAWINGS

1. EXISTING AIRPORT LAYOUT PLAN
2. AIRPORT LAYOUT PLAN
3. DATA SHEET
4. TERMINAL AREA PLAN - SOUTH
5. TERMINAL AREA PLAN - NORTH
6. AIRPORT IMAGINARY SURFACES PLAN
7. PLAN AND PROFILE RUNWAY 17-35
8. PLAN AND PROFILE RUNWAY 5-23
9. LAND USE PLAN

MARCH, 1991

HOYLE, TANNER & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS/SURVEYORS
BEDFORD, NEW HAMPSHIRE



LEGEND

ITEM	EXISTING
AIRPORT PROPERTY LINE	
*MISCELLANEOUS PROPERTY LINE	
CONTOURS (USGS-MSL) DATUM	
AIRPORT REFERENCE POINT (ARP)	
AIRPORT ROTATING BEACON	
BUILDING RESTRICTION LINE (B.R.L.)	
AVIGATION EASEMENT	
FEE ACQUISITION	
MISCELLANEOUS EASEMENTS	
AIRPORT BUILDINGS/FACILITIES	
MISC. BUILDINGS/FACILITIES	
G.S./LOC. CRITICAL AREA	
RUNWAYS/TAXIWAYS	
MARSH/WETLAND	
TREELINE/BRUSH	
SURFACE WATER	
RUNWAY VISIBILITY ZONE	
SAFETY AREA	
ROADS	
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	

*NOTE: SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE)
4	GREEN MOUNTAIN AIR SALES (PRIVATE)
5	STATE HANGAR
6	VERMONT FLYING SERVICE
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74	
USE OF STATE PAVING SPECIFICATION			4/30/75	
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75	

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802

FILE NAME 60BEALP

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North, Bedford, New Hampshire 03102
HTA engineers architects planners environmental consultants

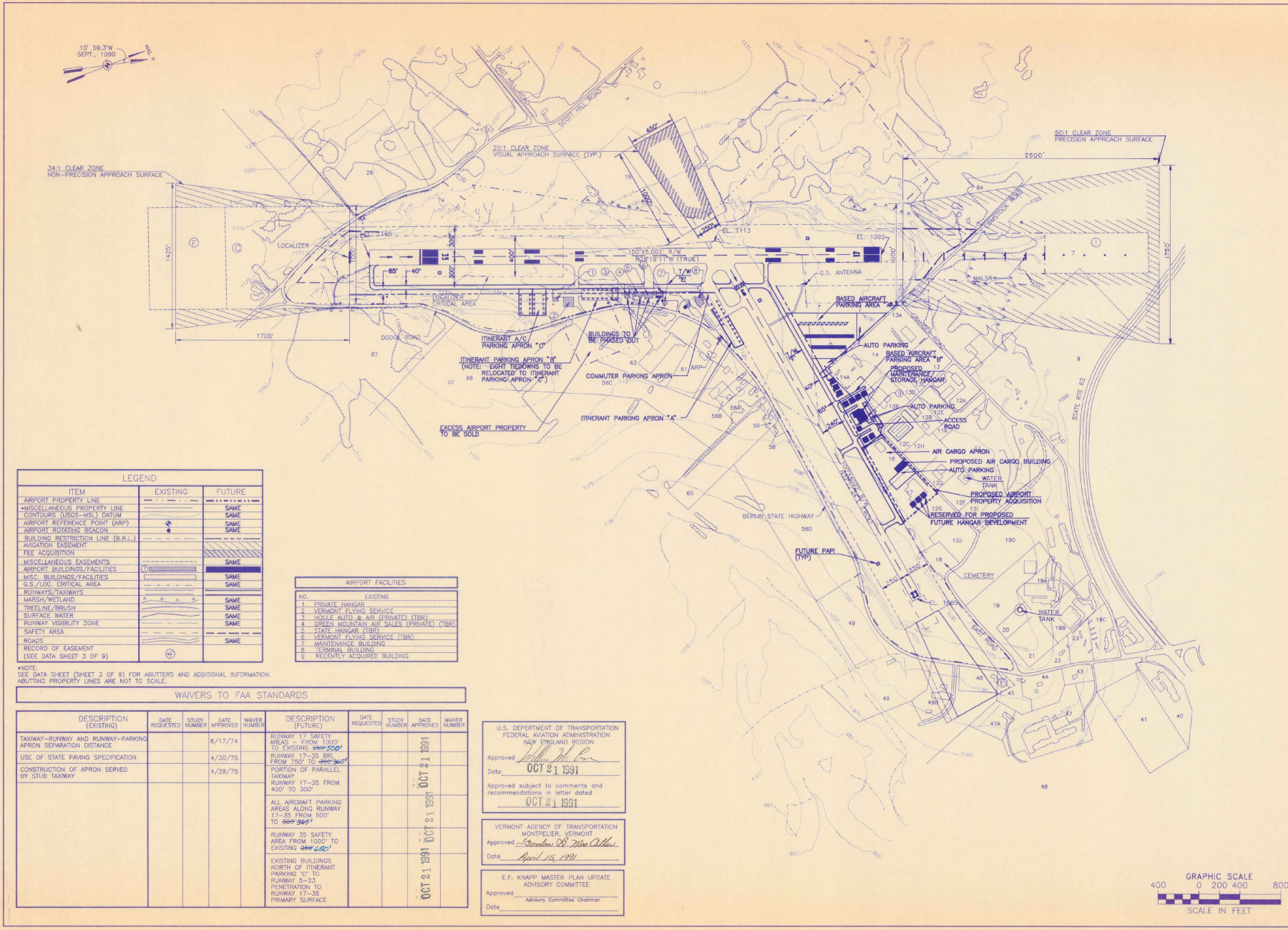
SCALE: 1" = 400' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

EXISTING AIRPORT LAYOUT PLAN

DRAWING NO. 1

SHEET 1 OF 9



LEGEND

ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES

NO.	EXISTING
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4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER	DESCRIPTION (FUTURE)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74		RUNWAY 17 SAFETY AREAS - FROM 1000' TO EXISTING ~~550'~~ 500'			OCT 21 1991	
USE OF STATE PAVING SPECIFICATION			4/30/75		RUNWAY 17-35 BRL FROM 750' TO ~~360'~~ 365'				
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75		PORTION OF PARALLEL TAXIWAY RUNWAY 17-35 FROM 400' TO 300'			OCT 21 1991	
					ALL AIRCRAFT PARKING AREAS ALONG RUNWAY 17-35 FROM 500' TO ~~350'~~ 345'			OCT 21 1991	
					RUNWAY 35 SAFETY AREA FROM 1000' TO EXISTING ~~550'~~ 680'			OCT 21 1991	
					EXISTING BUILDINGS NORTH OF ITINERANT PARKING "C" TO RUNWAY 5-23 PENETRATION TO RUNWAY 17-35 PRIMARY SURFACE			OCT 21 1991	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION

Approved *[signature]*
Date OCT 21 1991

Approved subject to comments and recommendations in letter dated
OCT 21 1991

VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT

Approved *Gordon H. MacArthur*
Date *April 15, 1991*

E.F. KNAPP MASTER PLAN UPDATE
ADVISORY COMMITTEE

Approved _____
Advisory Committee Chairman
Date _____

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR.	CHKD.	APPD.	DATE

PROJECT NO. 60802
FILE NAME 60BALP
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
HTA engineers architects planners environmental specialists
Companies surveyors
The Commerce Park North, Bedford, New Hampshire 03102

SCALE: 1"=400' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

AIRPORT LAYOUT PLAN

DRAWING NO. 2

SHEET 2 OF 9

PLOT No.	CURRENT OWNER
1	Alow, Chester & Ella
2	Woodbury, Harold & Ola
3	Sandibrien, Joseph
4	Berlin Properties, Inc.
5	Batch, Elizabeth and Clark, Anita
6	Berlin Properties, Inc.
6A	Alleca, Frank
7	State of Vermont
8	Wood, Donald
9	Cooley Asphalt Paving
10	A. G. Anderson, Inc.
11	Royea, Cecil Jr., & Vicki
11A	Zahm, Michael & Christine
12A	Langevin, Wilfred, Jr., & Jean
12B	LaPrade Realty
12C	D & D Investment Corp.
12D	Mountain Cable Co.
12E	Langevin, Wilfred, Jr. & Jean and Pollard, Wilson & Elizabeth
12F	Galfetti, Eugene
12G	Galfetti, Eugene
12H	Lague, Inc.
12I	Lague, Inc.
12J	Lague, Inc.
13	Vlateur, Fecteau Construction, Inc.
13A	Heney, Lawrence & Mary
13B	Nicom Coatings Corp.
13C	Poli, Edward
13D	Vlateur, Fecteau Construction, Inc.
14	Parker, Charles
14A	Comstock, Elwin & Pearl
15	Huntington Homes, Inc.
16	Stroutsos, Raymond
17	Rodman, Donald & Gerald and Pinta, Irving
18	Town of Berlin (Cemetery)
19	Staudt, Richard & Jane
19A	Tennis Unlimited
19B	Wavan Associates
19C	Lamb, Lawrence & Jacquelin
19D	Vermont Health Services Corp.
20	Central Vermont Hospital, Inc.
21	Lague, Henry
22	Blow, Chester & Ella
23	Brock, Bernard
40	Lague, Inc.
41	Baril, Paul, Norman & Raymond
43	Buxton, Roy & Beatrice
44	Diego, Richard & Rita
45	Roux, Francis & Jeannette
46	Parks, Steven
47	Berlin C.C., Inc.
47A	Johnson, Raymond & Donna
48	Chapple, John, III c/o Merlia Management Services
49	Kelley, Kathryn
49A	Lague, Henry
49b	Christ the Redeemer Evangelical Lutheran Church, Inc.
56	Levinsky, Bruce
56A	Miller, H. Lincoln, Jr., & Margaret
56B	Prescott, Everett J., Inc.
56C	Levinsky, Bruce
56D	Levinsky, Bruce
57	State of Vermont
58	Corriveau, J. Williams & Mary
59	Junowicz, David & Linda
60	Brown, Virginia and Burrington, Stella
61	Fecteau, Vlateur Construction, Inc.
62	State of Vermont
63	Design Sales Systems, Inc.
66	Perrin, Henry, II, David & Marylin
67	Dodge, George
73	State of Vermont
74	Mier, Della
75	Perrin, Marion & Henry, II
76	Chartrand, Alderict & Priscilla
84	Perry, Joseph Sr., & Martha

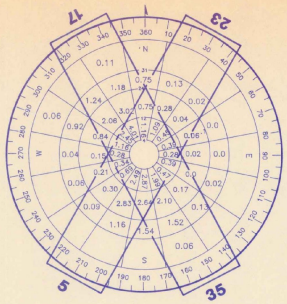
Properties South of Scott Hill Road

26	Couillard, Albert & Fish, George & Vivian
27	Dodge, George

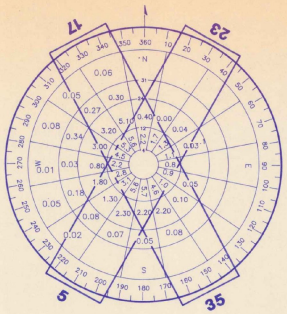
Ownership as of 2-2-87
Ownership based on information at Berlin Town Clerk's office, plat numbers refer to assessment map reference numbers

RECORD OF EASEMENT

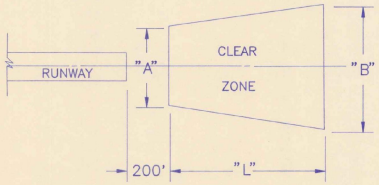
PARCEL No.	PROPERTY OWNER	
C	DODGE	EASEMENT AREA & CLEAR AREA
C	DODGE	R.O.W. TO BEACON
D	COMSTOCK	EASEMENT & CLEAR AREA
E	WOODBURY	EASEMENT & CLEAR AREA
F	DODGE	QUADRANT
G	PRESCOTT	POLE LINE EASEMENT W.D.-05
H	STEVENS	POWERLINE EASEMENT & R.O.W.-05
I	BERLIN PROPERTIES, INC.	AVIGATION EASEMENT W.D.-03
j	BROWN & BURRINGTON	POWERLINE EASEMENT W.D.-05



IFR WIND ROSE
IFR WEATHER OCCURS 10.6% OF THE TIME
12 MPH CROSSWIND COVERAGE RWY 5-23=85.6%
12 MPH CROSSWIND COVERAGE RWY. 17-35=92.6%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS =98.2%
=55.3% CALMS + 0-4MPH
NO. OF OBSERVATIONS 4,662 PERIOD 1950-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



ALL WEATHER WIND ROSE
12 MPH CROSSWIND COVERAGE RWY 5-23 =84.8%
12 MPH CROSSWIND COVERAGE RWY 17-35=92.2%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS = 96.7%
=29.3% CALMS + 0-4 MPH
NO. OF OBSERVATIONS 51,840 PEIOD 1949-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



AIRPORT DATA

ITEM	EXISTING	FUTURE
AIRPORT ELEVATION (U.S.G.S.-M.S.L.)	1165'	SAME
OPERATIONAL ROLE	COMMER. SERV. OTHER	SAME
MEAN MAX. TEMP HOTTEST MONTH	84.8°F	SAME
AIRPORT CATEGORY	SHORT HAUL	SAME
TERMINAL NAVAIDS	VOR	LOC/VOR
COMBINED WIND COVERAGE (A/W)	96.7% (12MPH)	SAME
DIST. & DIR. TO MONTPELLIER	3 NM WEST	SAME
LAND OWNED IN FEE (ACRES)	263	• 265
AVIGATION EASEMENT (ACRES)	51.27	124.27
OWNER	STATE OF VERMONT	SAME
MAGNETIC DECLINATION	15°59.3' W	VARIES
AIRCRAFT DESIGN GROUP	II	SAME
AIRCRAFT APPROACH SPEED CLASS	B	SAME
AIRPORT REFERENCE POINT (ARP)	44°12'12.4N 72°33'46.0W	SAME

• 5 ACRES WILL POSSIBLY BE SOLD BY AIRPORT

CLEAR ZONE DATA

RUNWAY	CATEGORY	APPROACH SLOPE	"L"	"A"	"B"
17	PRECISION	50:1	2,500'	1,000'	1,750'
35	NON-PRECISION	34:1	1,700'	1,000'	1,425'
5	VISUAL	20:1	1,000'	500'	700'
23	VISUAL	20:1	1,000'	500'	700'
5 (FUTURE)	VISUAL	20:1	1,000'	250'	450'
23 (FUTURE)	VISUAL	20:1	1,000'	250'	450'

RUNWAY DATA

ITEM	RUNWAY 17-35 EXISTING	RUNWAY 17-35 FUTURE	RUNWAY 5-23 EXISTING	RUNWAY 5-23 FUTURE
PHYSICAL LENGTH	5,001'	SAME	4,022'	SAME
WIDTH	150'	SAME	100'	SAME
SAFETY AREA WIDTH	–	523 •	–	150' •
TAXIWAY WIDTHS	40'	SAME	40'	SAME
SURFACE COMPOSITION	ASPHALT	SAME	ASPHALT	SAME
PVMT. STRENGTH (x1000#)	31SW/44DW	SAME	30SW/46DW	SAME
PAVEMENT TYPE	ASPHALT	SAME	ASPHALT	SAME
RUNWAY LIGHTING	MIRLS	SAME	MIRLS	SAME
RUNWAY MARKING	PRECISION	SAME	BASIC	SAME
EFFECTIVE GRADIENT (%)	1.46%	SAME	0.79%	SAME
A/W WIND COVERAGE (%) 12mph	92.2%	SAME	84.8%	SAME
APPROACH AIDS	ILS LOC RW17 VOR/NDB RW35 MALSR RW 17 REIL RW35	SAME	NONE	SAME
VISUAL AIDS	REIL RW35	PAPI RW 17 RW 35	NONE	PAPI RW 5 RW 23
CRITICAL AIRCRAFT APPR.SPD.	CITATION III (B)	SAME	BE99(B)	SAME
CRITICAL AIRCRAFT WINGSPAN	CITATION III (II)	SAME	BE99(II)	SAME
RUNWAY BEARINGS	N28°19'11"W (TRUE)		N32°22'24"E (TRUE)	

RUNWAY END COORDINATES					
5	LATITUDE	44° 12' 08.77" N	LONGITUDE	72° 33' 56.72" W
23		44° 12' 42.31" N		72° 33' 27.16" W
17		44° 12' 23.62" N		72° 34' 05.64" W
35		44° 11' 40.15" N		72° 33' 33.08" W

• REQUIRED

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR.	CHKD.	APPD.	DATE
		BY	BY	BY	

PROJECT NO. 60802
FILE NAME 608DATA
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
engineers architects planners
Consultants Bedford
Five Commerce Park North, Bedford, New Hampshire 03102

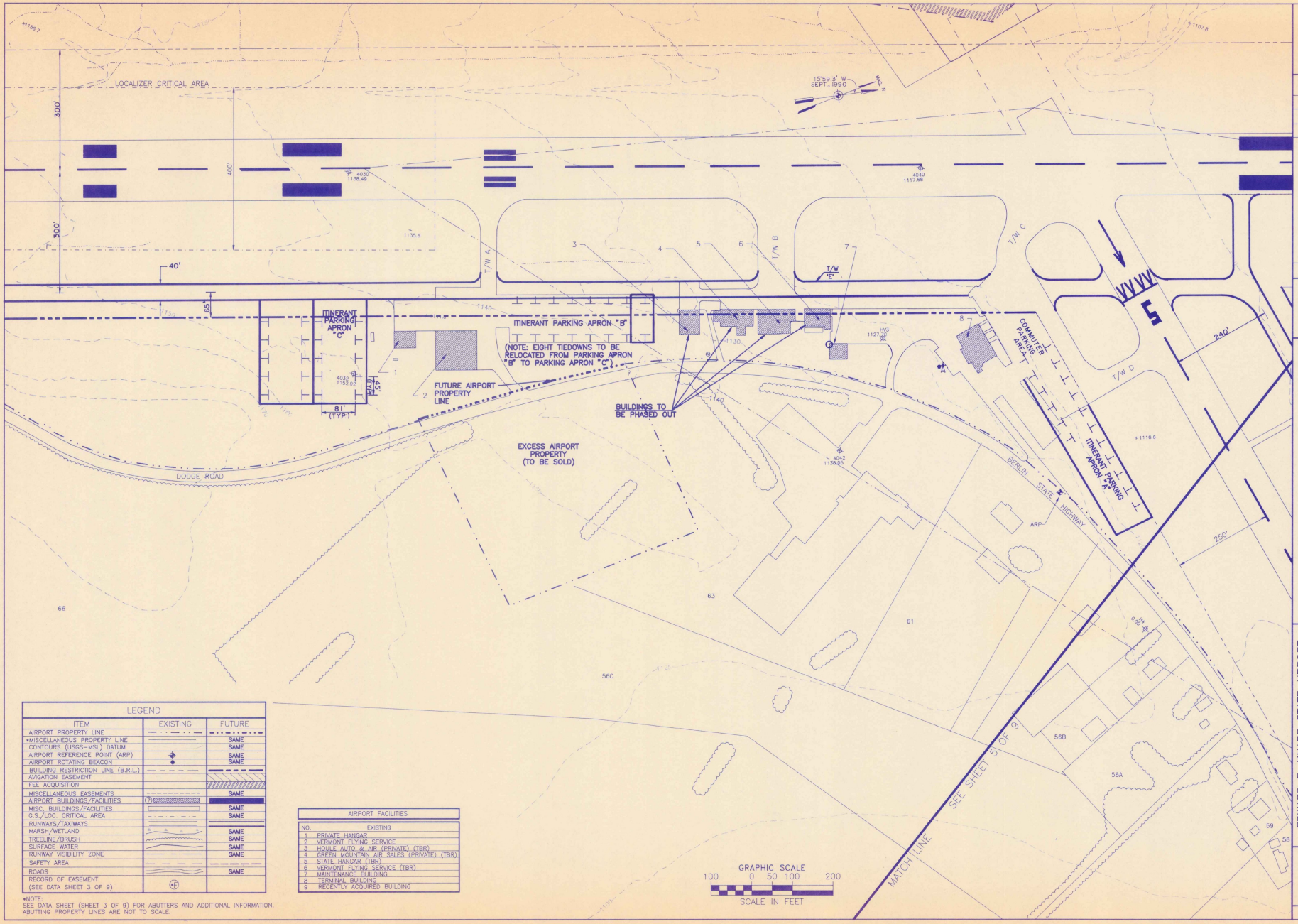
SCALE: N.T.S	DATE: MARCH, 1991	DES. BY JEP	DR. BY HW	CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

DATA SHEET

DRAWING NO. 3

SHEET 3 OF 9



LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES	7	
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	RE	

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES	
NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802
FILE NAME 60BSTALP
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
engineers architects planners environmental consultants Companies surveyors
Five Commerce Park North, Bedford, New Hampshire 03102

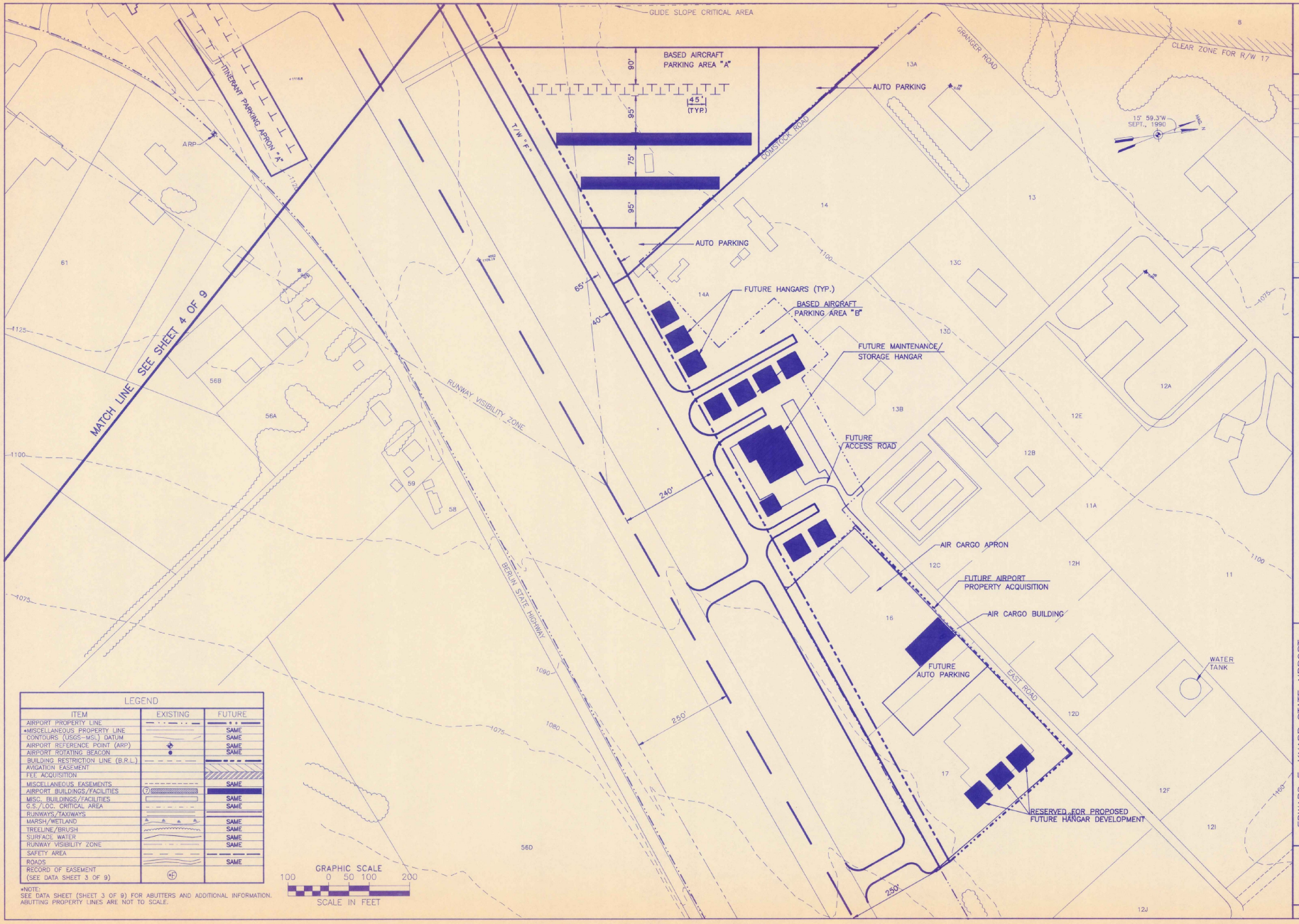
SCALE: 1" = 100' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

TERMINAL AREA PLAN-SOUTH

DRAWING NO. 4

SHEET 4 OF 9



LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
*MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES	?	
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TREELINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802

FILE NAME 60BNTALP

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
The Commerce Park North, Bedford, New Hampshire 03102
HTA engineers architects planners Companies surveyors

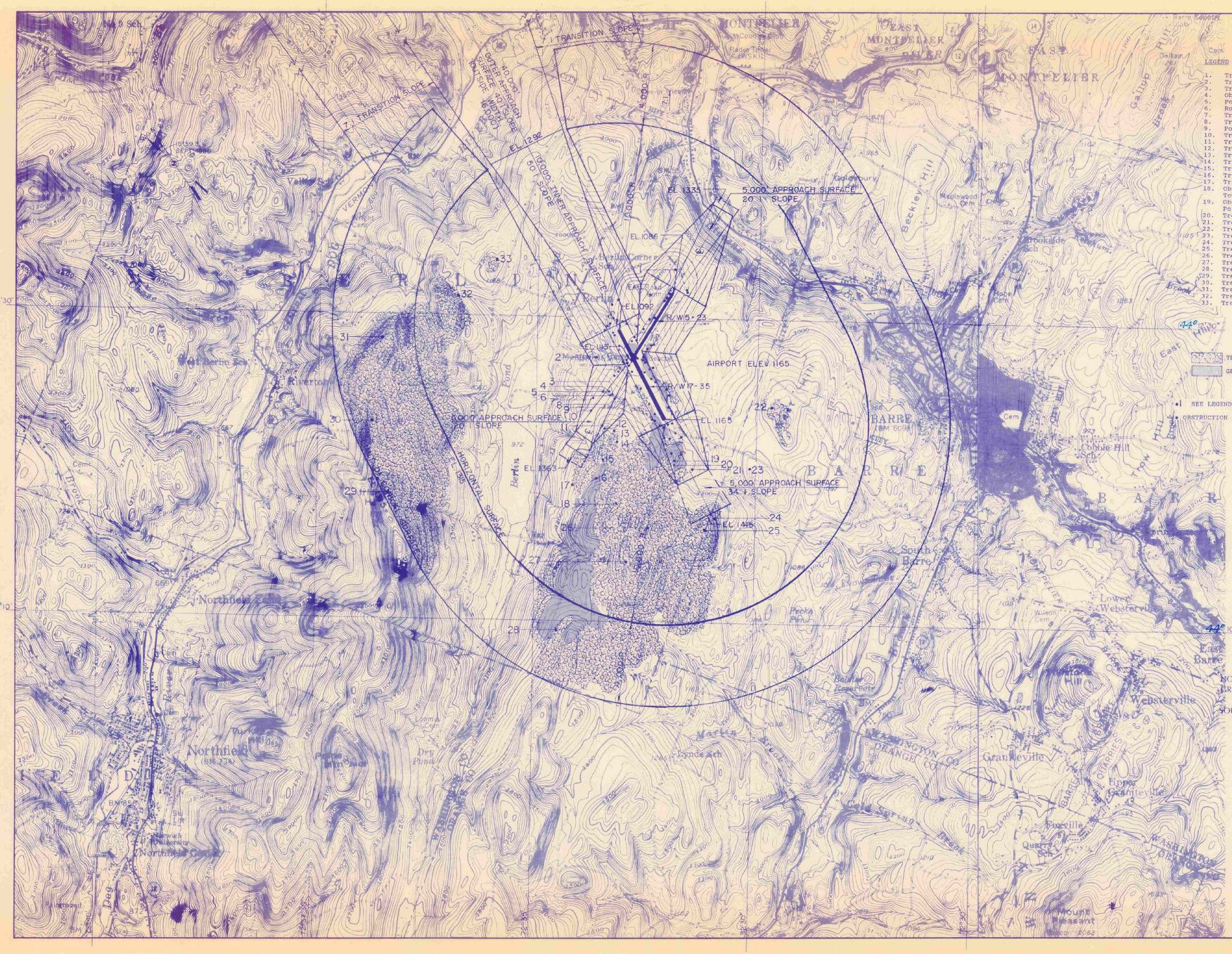
SCALE: 1"=100' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

TERMINAL AREA PLAN-NORTH

DRAWING NO. 5

SHEET 5 OF 9



ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR BY	CHKD BY	APPD BY	DATE

PROJECT NO. 60802

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North Bedford NH 03102 (603) 669-5555
Engineers Architects Planners Surveyors
HTA Companies

SCALE 1" = 2000'	DATE MARCH, 1991	DES BY JEP	DR BY HW	CHKD BY RJD

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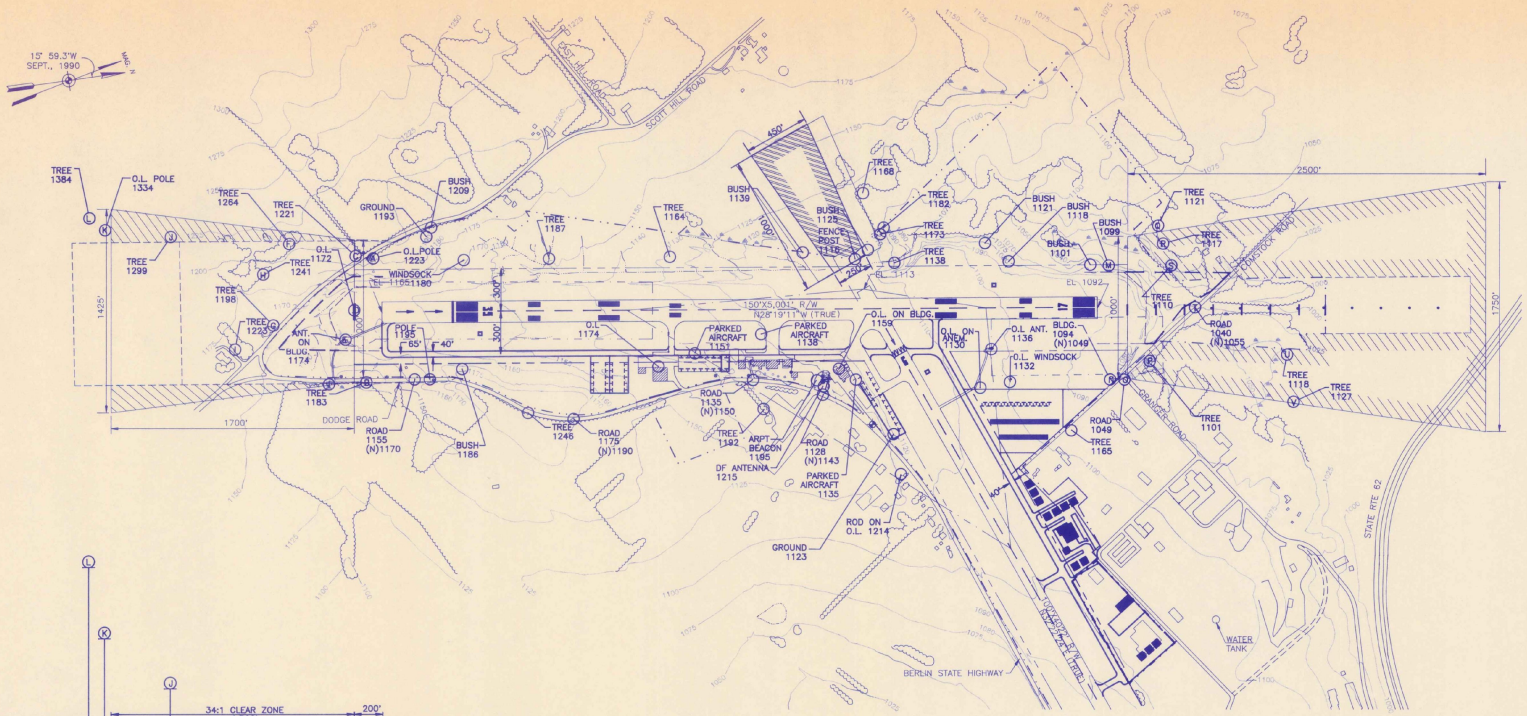
EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

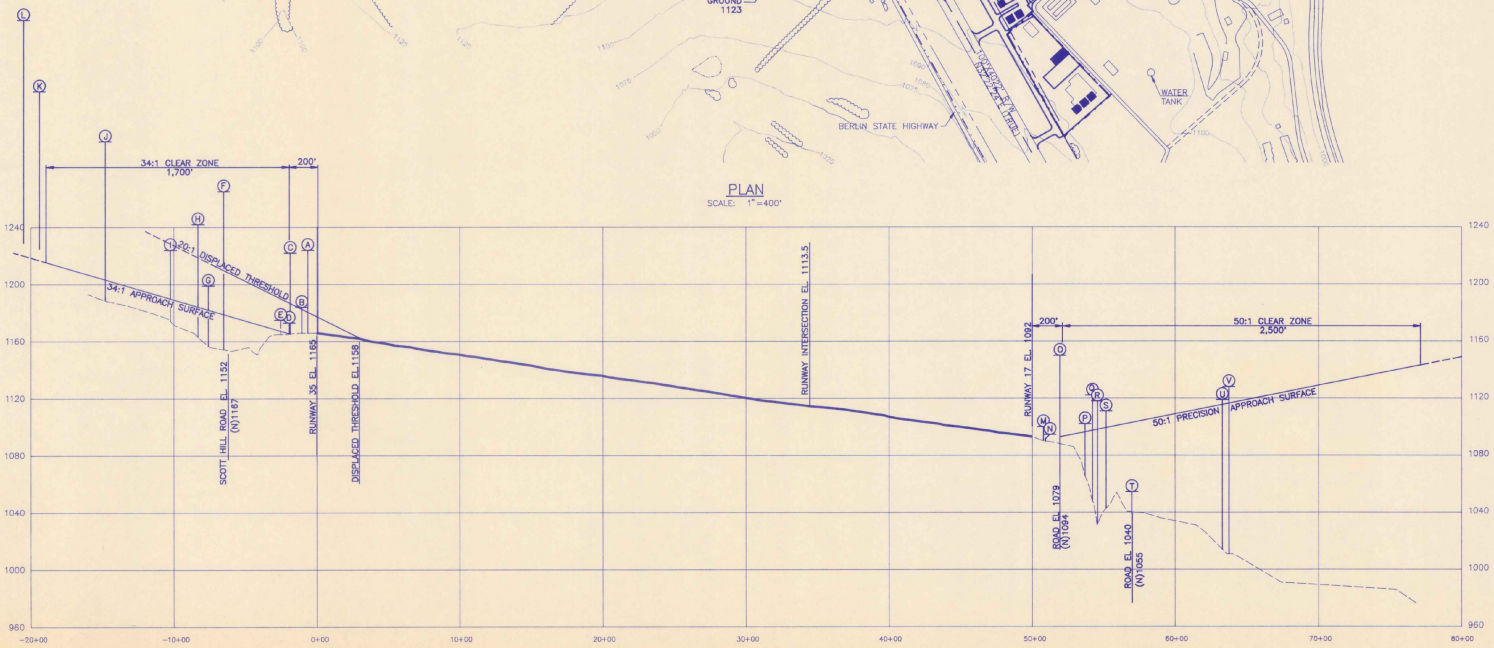
FAR PART 77 SURFACES PLAN

DRAWING NO. 6

SHEET 6 OF 9



PLAN
SCALE: 1"=400'



PROFILE

VERTICAL: 40' 0 40'
HORIZONTAL: 400 0 400

(E) – OBSTRUCTIONS TO RUNWAY 17–35 APPROACH SURFACES
(O) – OBSTRUCTIONS TO RUNWAY 17–35 PRIMARY OR TRANSITIONAL SURFACES

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 60802
FILE NAME 60BPP17
DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc.
One Commerce Park North, Bedford, New Hampshire 03102
engineers architects planners surveyors
Companies surveyors

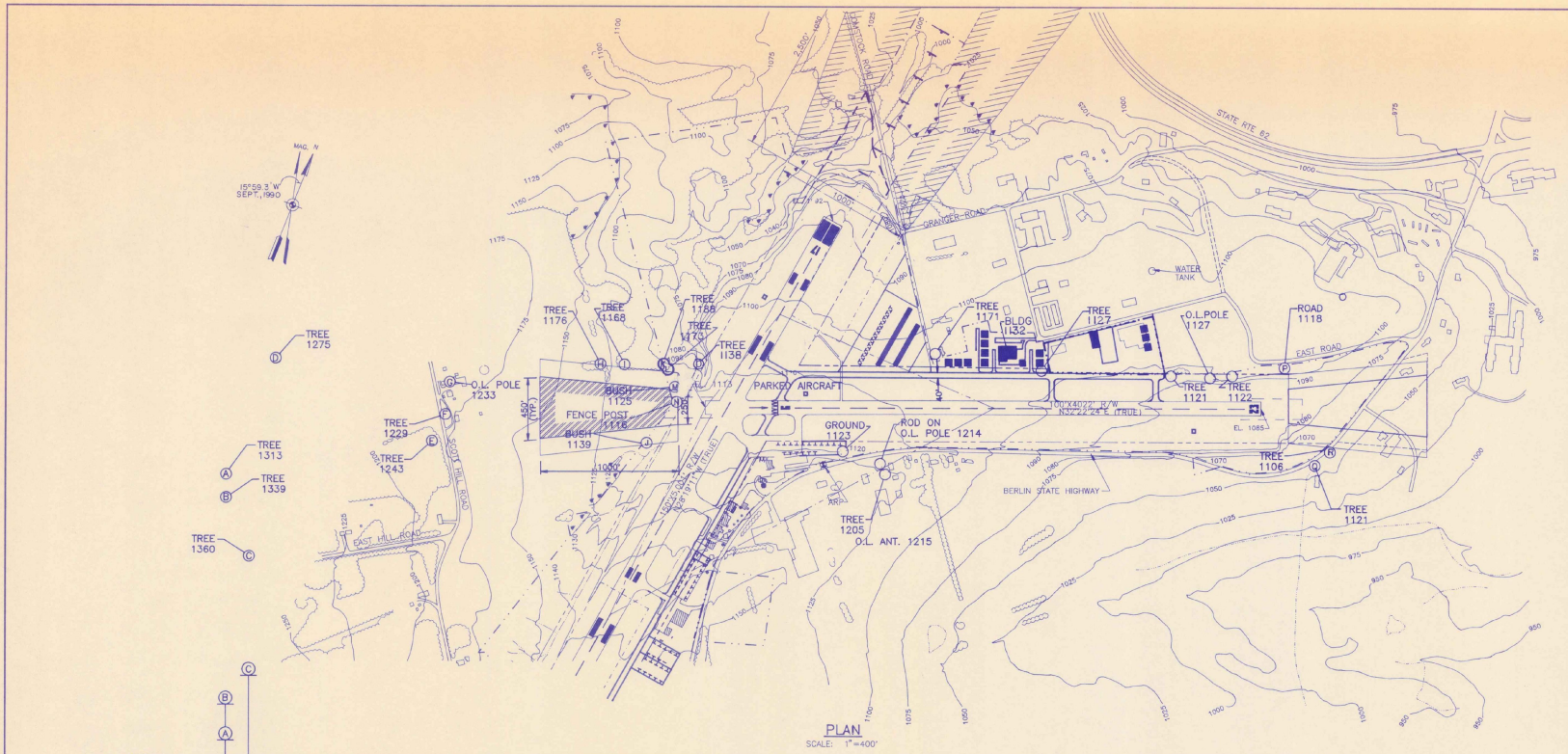
SCALE: AS SHOWN | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

PLAN & PROFILE
RUNWAY 17–35

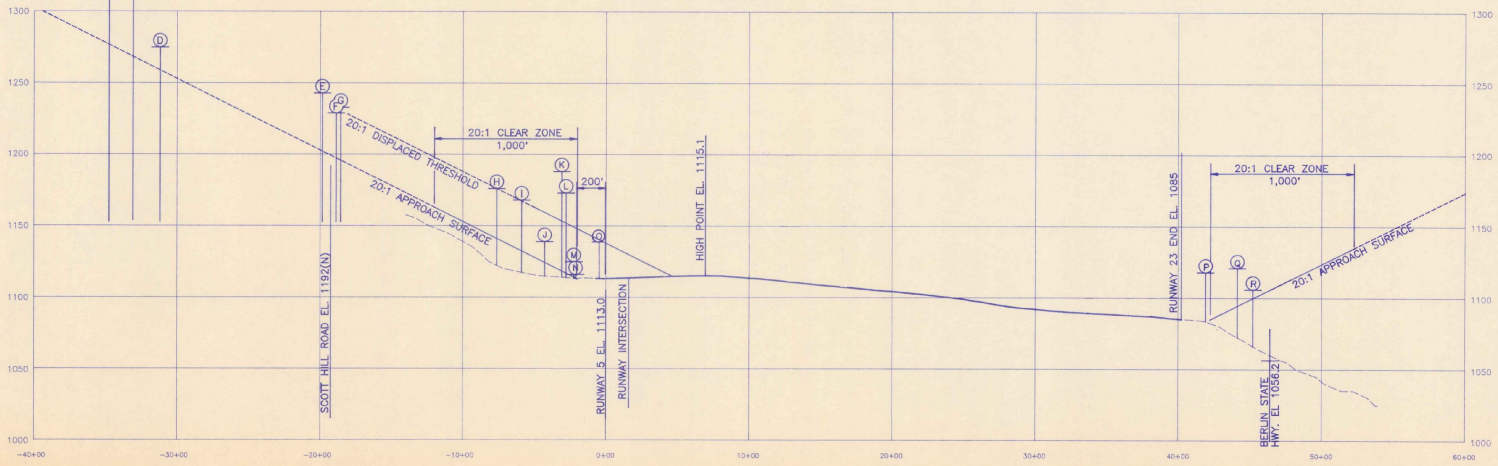
DRAWING NO. 7

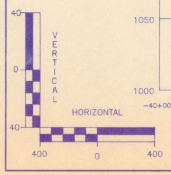
SHEET 7 OF 9



PLAN

SCALE: 1"=400'





(E) – OBSTRUCTIONS TO RUNWAY 5–23 APPROACH SURFACES

(O) – OBSTRUCTIONS TO RUNWAY 5–23 PRIMARY OR TRANSITIONAL SURFACES

PROFILE

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPR. BY	DATE

PROJECT NO. 60802

FILE NAME 60BPP5

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc. HTA engineers architects planners Companies surveyors

Five Commerce Park North, Bedford, New Hampshire 03102

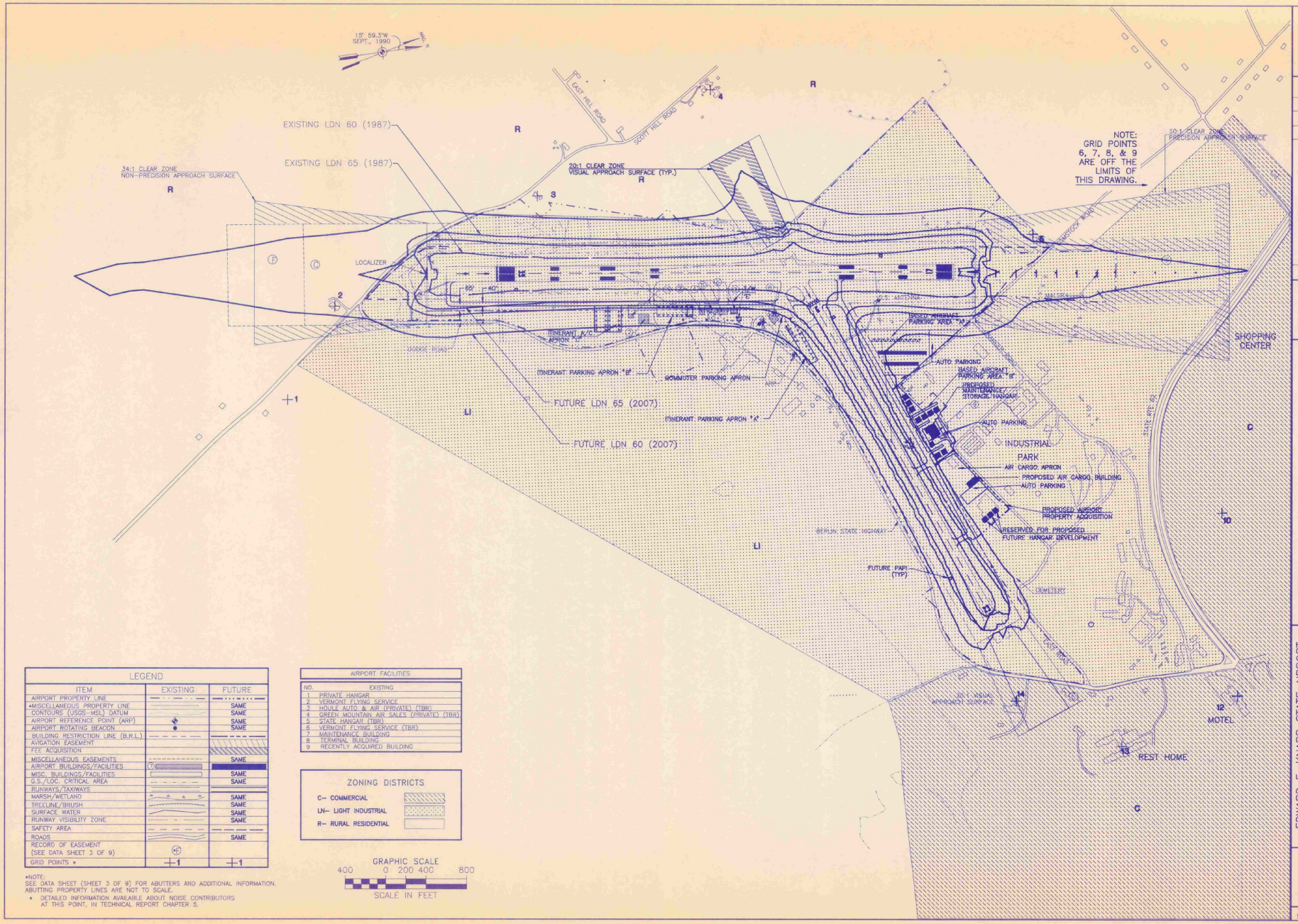
SCALE: AS SHOWN | DATE: MARCH, 1991 | DES. BY: JEP | DR. BY: HW | CHKD. BY: RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

PLAN & PROFILE
RUNWAY 5–23

DRAWING NO. 8

SHEET 8 OF 9



LEGEND

ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
•MISCELLANEOUS PROPERTY LINE		SAME
CONTOURS (USGS-MSL) DATUM		SAME
AIRPORT REFERENCE POINT (ARP)		SAME
AIRPORT ROTATING BEACON		SAME
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
FEE ACQUISITION		
MISCELLANEOUS EASEMENTS		SAME
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		SAME
G.S./LOC. CRITICAL AREA		SAME
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		SAME
TRELLINE/BRUSH		SAME
SURFACE WATER		SAME
RUNWAY VISIBILITY ZONE		SAME
SAFETY AREA		
ROADS		SAME
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		
GRID POINTS *	+1	+1

•NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION. ABUTTING PROPERTY LINES ARE NOT TO SCALE.

* DETAILED INFORMATION AVAILABLE ABOUT NOISE CONTRIBUTORS AT THIS POINT, IN TECHNICAL REPORT CHAPTER 5.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

ZONING DISTRICTS

C– COMMERCIAL

LN– LIGHT INDUSTRIAL

R– RURAL RESIDENTIAL

GRAPHIC SCALE
400 0 200 400 800
SCALE IN FEET

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR.	CHKD.	APPD.	DATE
			BY	BY	

PROJECT NO. 60802

FILE NAME 60BL_USE

DO NOT SCALE DRAWING

Hoyle, Tanner & Associates, Inc. HTA engineers architects environmental scientists Comprehensive Surveyors
Five Commerce Park North, Bedford, New Hampshire 03102

SCALE: 1"=400' | DATE: MARCH, 1991 | DES. BY JEP | DR. BY HW | CHKD. BY RJD

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

NOISE CONTOURS AND LAND USE PLAN

DRAWING NO. 9

SHEET 9 OF 9