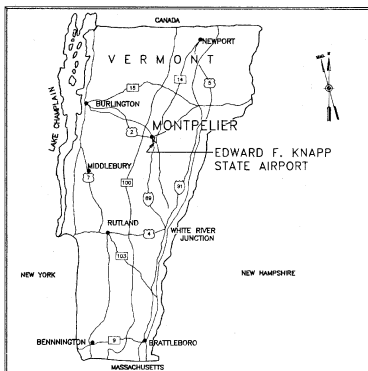




LOCATION MAP  
NOT TO SCALE

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

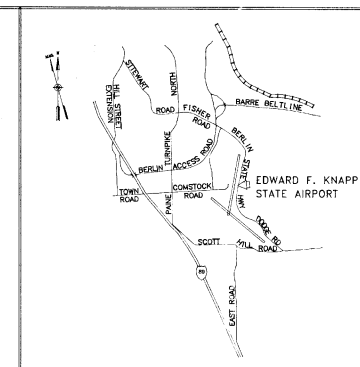
FAA PROJECT NO. 3-50-0001-0186  
VAOT PROJECT NO. AIR 03-2047

## 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

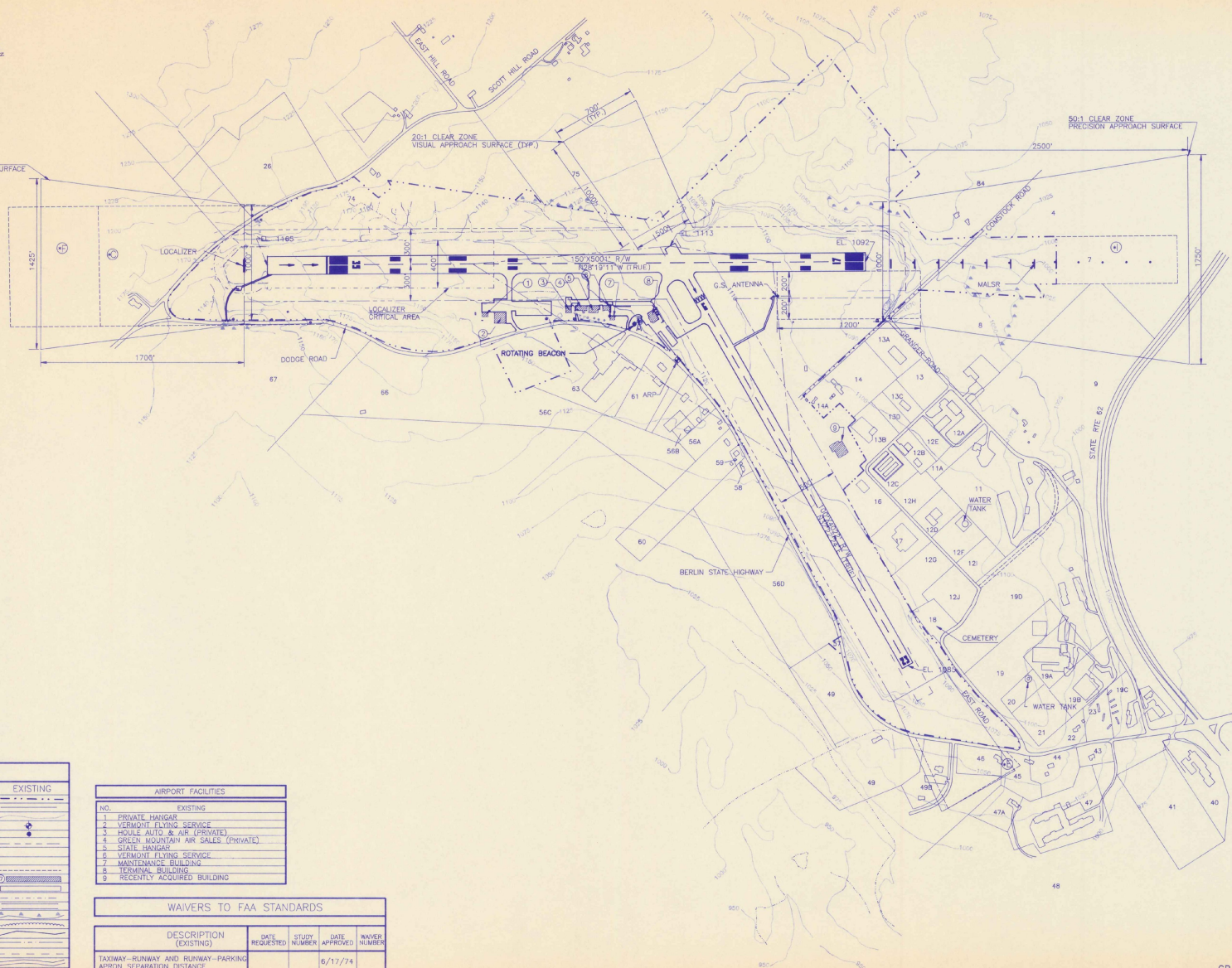
**HOYLE, TANNER & ASSOCIATES, INC.**  
**ENGINEERS/ARCHITECTS/PLANNERS/SURVEYORS**  
**BEDFORD, NEW HAMPSHIRE**



VICINITY MAP  
NOT TO SCALE



34:1 CLEAR ZONE  
NON-PRECISION APPROACH SURFACE



#### LEGEND

| ITEM                                          | EXISTING |
|-----------------------------------------------|----------|
| AIRPORT PROPERTY LINE                         | ---      |
| MISCELLANEOUS PROPERTY LINE                   | ---      |
| CONTOURS (USDS-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                              | ---      |
| WATERS/WETLAND                                | ---      |
| TREELINE/BRUSH                                | ---      |
| SURFACE WATER                                 | ---      |
| RUNWAY VISIBILITY ZONE                        | ---      |
| SAFETY AREA                                   | ---      |
| ROADS                                         | ---      |
| RECORD OF EASEMENT<br>(SEE DATA SHEET 3 OF 9) | ---      |

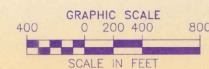
NOTE: SEE DATA SHEET (SHEET 3 OF 9)  
FOR ABUTTERS AND ADDITIONAL INFORMATION.  
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

#### AIRPORT FACILITIES

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

#### WAIVERS TO FAA STANDARDS

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



ENGINEER/ARCHITECT

PROJECT NO.  
60802

FILE NAME  
60802.P

DATE  
10/1/90

Hoyle, Tanner & Associates, Inc.  
100 Commerce Park North, Bedford, New Hampshire 03102  
H.A. Hoyle, Inc.  
100 Commerce Park North, Bedford, New Hampshire 03102

DATE BY  
10/1/90

DATE BY  
10/1/90

DATE BY  
10/1/90

DATE BY  
10/1/90

DATE BY  
10/1/90

DATE BY  
10/1/90

EDWARD F. KNAPP STATE AIRPORT  
BERLIN, VERMONT

EXISTING AIRPORT  
LAYOUT PLAN

DRAWING NO.

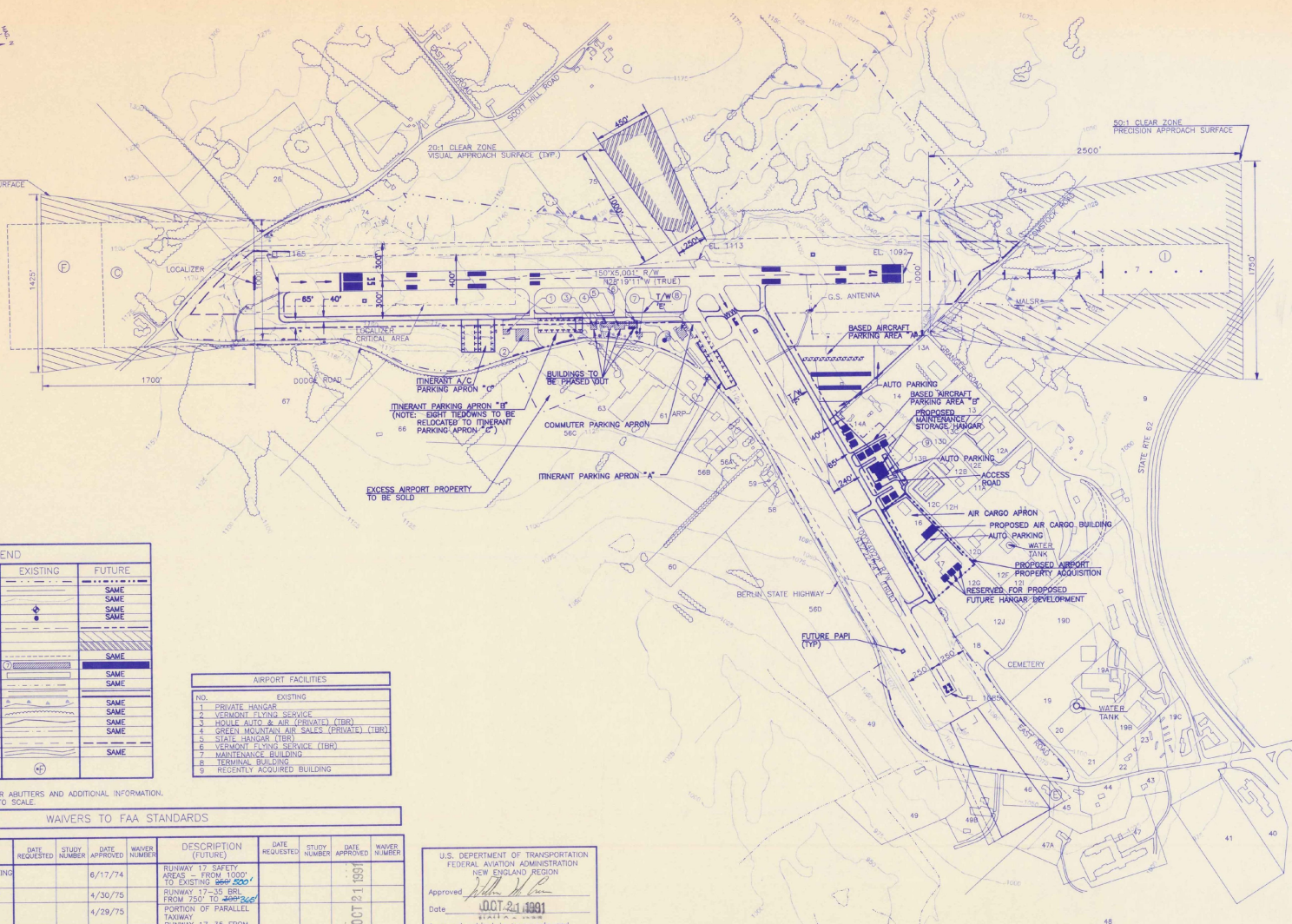
1

SHEET 1 OF 9





34:1 CLEAR ZONE  
NON-PRECISION APPROACH SURFACE



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

| AIRPORT FACILITIES |                                          |
|--------------------|------------------------------------------|
| NO.                | EXISTING                                 |
| 1                  | PRIVATE HANGAR                           |
| 2                  | VERMONT FLYING SERVICE                   |
| 3                  | HOUSE 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               |

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

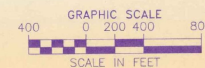
#### WAIVERS TO FAA STANDARDS

| DESCRIPTION<br>(EXISTING)                                      | DATE<br>REQUESTED | STUDY<br>NUMBER | DATE<br>APPROVED | WAIVER<br>NUMBER | DESCRIPTION<br>(FUTURE)                                                                                       | DATE<br>REQUESTED | STUDY<br>NUMBER | DATE<br>APPROVED | WAIVER<br>NUMBER |
|----------------------------------------------------------------|-------------------|-----------------|------------------|------------------|---------------------------------------------------------------------------------------------------------------|-------------------|-----------------|------------------|------------------|
| TAXIWAY-RUNWAY AND RUNWAY-PARKING<br>APRON SEPARATION DISTANCE |                   |                 | 6/17/74          |                  | RUNWAY 17-35 SAFETY<br>AREAS - FROM 1000' TO EXISTING 200'                                                    |                   |                 | OCT 21 1991      |                  |
| USE OF STATE PAVING SPECIFICATION                              |                   |                 | 4/30/75          |                  | RUNWAY 17-35 FROM 750' TO 200' 300'                                                                           |                   |                 | OCT 21 1991      |                  |
| CONSTRUCTION OF APRON SERVED<br>BY STUB TAXIWAY                |                   |                 | 4/29/75          |                  | PORTION OF PARALLEL<br>TAXIWAY<br>RUNWAY 17-35 FROM 400' TO 300'                                              |                   |                 | OCT 21 1991      |                  |
|                                                                |                   |                 |                  |                  | ALL AIRCRAFT PARKING<br>AREAS ALONG RUNWAY<br>17-35 FROM 500' TO 200' 300'                                    |                   |                 | OCT 21 1991      |                  |
|                                                                |                   |                 |                  |                  | RUNWAY 35 SAFETY<br>AREA FROM 1000' TO EXISTING 200'                                                          |                   |                 | OCT 21 1991      |                  |
|                                                                |                   |                 |                  |                  | EXISTING BUILDINGS<br>NORTH OF INTERIM<br>PARKING "C" TO<br>RUNWAY 17-35<br>PENETRATION TO<br>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: *[Signature]*  
Date: April 16, 1991

E.F. KNAPP MASTER PLAN UPDATE  
ADVISORY COMMITTEE  
Approved: *[Signature]*  
Date: *[Signature]*



|                                                                                              |                   |
|----------------------------------------------------------------------------------------------|-------------------|
| ENGINEER/ARCHITECT                                                                           |                   |
| PROJECT NO.                                                                                  | 60802             |
| FILE NAME                                                                                    | EDSALP            |
| DATE                                                                                         | 00 00 00 00 00 00 |
| DESCRIPTION                                                                                  |                   |
| REV                                                                                          |                   |
| Hoyle, Tanner & Associates, Inc.<br>First Commercial Park North, Berlin, New Hampshire 03022 |                   |
| SCALE: 1"=400'                                                                               | DATE: MARCH, 1991 |
| DRAWING NO. 2                                                                                |                   |
| SHEET 2 OF 9                                                                                 |                   |

PLOT  
No.

## CURRENT OWNER

|     |                                                       |
|-----|-------------------------------------------------------|
| 1   | Alow, Chester & Ella                                  |
| 2   | Woodbury, Harold & Ola                                |
| 3   | Sandbrien, 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  | Royce, Cecil Jr. & Vicki                              |
| 11A | Zahn, 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 | Gaffetti, Eugene                                      |
| 12G | Gaffetti, 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  | Stratous, Raymond                                     |
| 17  | Rodman, Donald & Gerald and Pinta, Irving             |
| 18  | Town of Berlin (Cemetery)                             |
| 19  | Staudt, Richard & Jane                                |
| 19A | Tennis Unlimited                                      |
| 19B | Wovan Associates                                      |
| 19C | Lomb, Lawrence & Jacqueline                           |
| 19D | Vermont Health Services Corp.                         |
| 20  | Central Vermont Hospital, Inc.                        |
| 21  | Lague, Henry                                          |
| 22  | Blow, Chester & Ella                                  |
| 23  | Brack, Bernard                                        |
| 40  | Lague, Inc.                                           |
| 41  | Borl, Paul, Norman & Raymond                          |
| 42  | 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 Merla Management Services      |
| 49  | Kelley, Kathryn                                       |
| 49A | Lague, Henry                                          |
| 49B | Christ the Redeemer Evangelical Lutheran Church, Inc. |
| 56  | Levinisky, Bruce                                      |
| 56A | Miller, H. Lincoln, Jr., & Margaret                   |
| 56B | Prescott, Everett J., Inc.                            |
| 56C | Levinisky, Bruce                                      |
| 56D | Levinisky, Bruce                                      |
| 57  | State of Vermont                                      |
| 58  | Corriveau, J. Williams & Mary                         |
| 59  | Junowicz, 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 & Marilyn                    |
| 67  | Dodge, George                                         |
| 73  | State of Vermont                                      |
| 74  | Mier, Della                                           |
| 75  | Perrin, Marion & Henry, II                            |
| 76  | Chartrand, Alderick & Friscilla                       |
| 84  | Perry, Joseph Sr., & Martha                           |

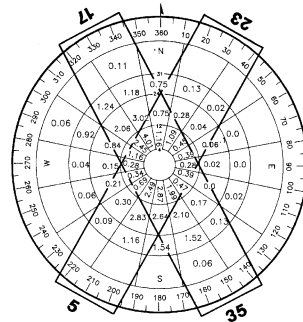
## Properties South of Scott Hill Road

|    |                                           |
|----|-------------------------------------------|
| 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

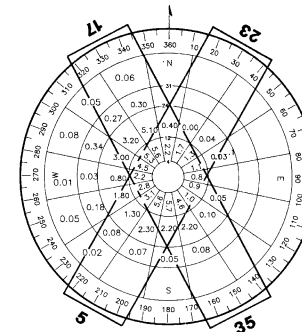
## RECORD OF EASEMENT

| PARCEL<br>No. | PROPERTY<br>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             | PRESBOTT                | 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     |



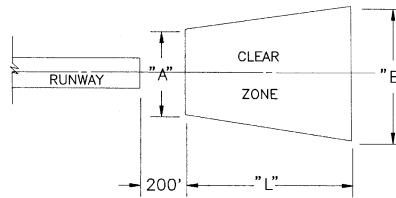
## IFR WIND ROSE

IFR WEATHER OCCURS 10.8% 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%  
=55.1% 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 PERIOD 1949-1954  
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



## CLEAR ZONE DATA

| RUNWAY      | CATEGORY      | APPROACH<br>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'   |

## AIRPORT DATA

| ITEM                                | EXISTING                   | FUTURE   |
|-------------------------------------|----------------------------|----------|
| AIRPORT ELEVATION (U.S.G.S.-M.S.L.) | 1165'                      | SAME     |
| OPERATIONAL ROLE                    | COMM. SERV. OTHER          | SAME     |
| MEAN MAX. TEMP. HOTTEST MONTH       | 84.8°F                     | SAME     |
| AIRPORT CATEGORY                    | SHORT HAUL                 | SAME     |
| TERMINAL BUILDINGS                  | VOR                        | LOC./VOR |
| COMBINED WIND COVERAGE (A/W)        | 96.7% (12MPH)              | SAME     |
| DIST. & DIR. TO MONTPELIER          | 3 NM WEST                  | SAME     |
| LAND OWNED IN FEE (ACRES)           | 263                        | • 266    |
| AVIGATION EASEMENT (ACRES)          | 51.27                      | 124.27   |
| OWNER                               | STATE OF VERMONT           | SAME     |
| MAGNETIC DECLINATION                | 15° 59.5' W                | VARIES   |
| AIRCRAFT DESIGN GROUP               | II                         | SAME     |
| AIRCRAFT APPROACH SPEED CLASS       | B                          | SAME     |
| AIRPORT REFERENCE POINT (ARP)       | 44°12'12.4N<br>72°33'46.0W | SAME     |

• 5 ACRES WILL POSSIBLY BE SOLD BY AIRPORT

## RUNWAY DATA

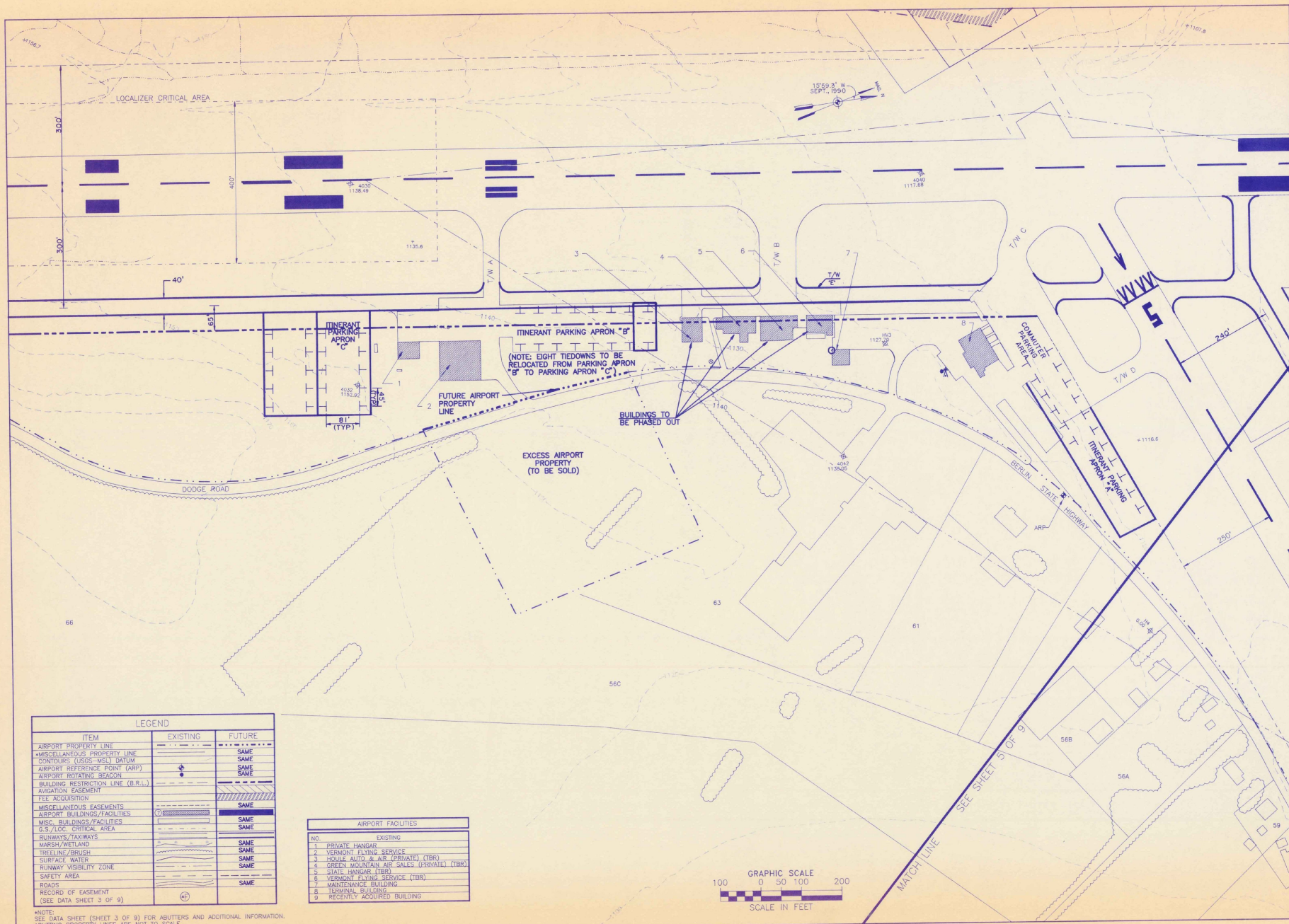
| ITEM                        | RUNWAY 17-35                                            | RUNWAY 5-23                                                                       |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
| EXISTING                    | EXISTING                                                | EXISTING                                                                          |
| PHYSICAL LENGTH             | 5,001'                                                  | 4,022'                                                                            |
| WIDTH                       | 150'                                                    | 100'                                                                              |
| SAFETY AREA WIDTH           | 523' •                                                  | 150' •                                                                            |
| TAXIWAY WIDTHS              | 40'                                                     | 46'                                                                               |
| SURFACE COMPOSITION         | ASPHALT                                                 | ASPHALT                                                                           |
| PVT. STRENGTH (x1000#)      | 315W/440W                                               | 305W/440W                                                                         |
| PAVEMENT TYPE               | ASPHALT                                                 | ASPHALT                                                                           |
| RUNWAY LIGHTING             | MIRL.S                                                  | MIRL.S                                                                            |
| RUNWAY MARKING              | PRECISION                                               | BASIC                                                                             |
| EFFECTIVE GRADIENT (%)      | 1.46%                                                   | 0.73%                                                                             |
| A/W WIND COVERAGE (%) 12mph | 92.2%                                                   | 84.8%                                                                             |
| APPROACH ADS                | ILS LOC RW17<br>VOR/DME RW35<br>MALSR RW 17<br>REL RW35 | NONE                                                                              |
| VISUAL AIDS                 | REL RW35                                                | PAPI RW 17<br>RW 35                                                               |
| CRITICAL AIRCRAFT APPR SPD. | CITATION III(B)                                         | BE96(B)                                                                           |
| CRITICAL AIRCRAFT WINGSPAN  | CITATION III (U)                                        | BE99(U)                                                                           |
| RUNWAY BEARINGS             | N28°19'11"W (TRUE)                                      | N32°22'24"E (TRUE)                                                                |
| RUNWAY END COORDINATES      | S<br>23<br>17<br>35                                     | W<br>72° 33' 56.72" W<br>72° 33' 27.16" W<br>72° 34' 05.64" W<br>72° 33' 33.08" W |

• REQUIRED

ENGINEER/ARCHITECT

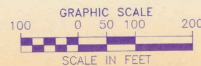
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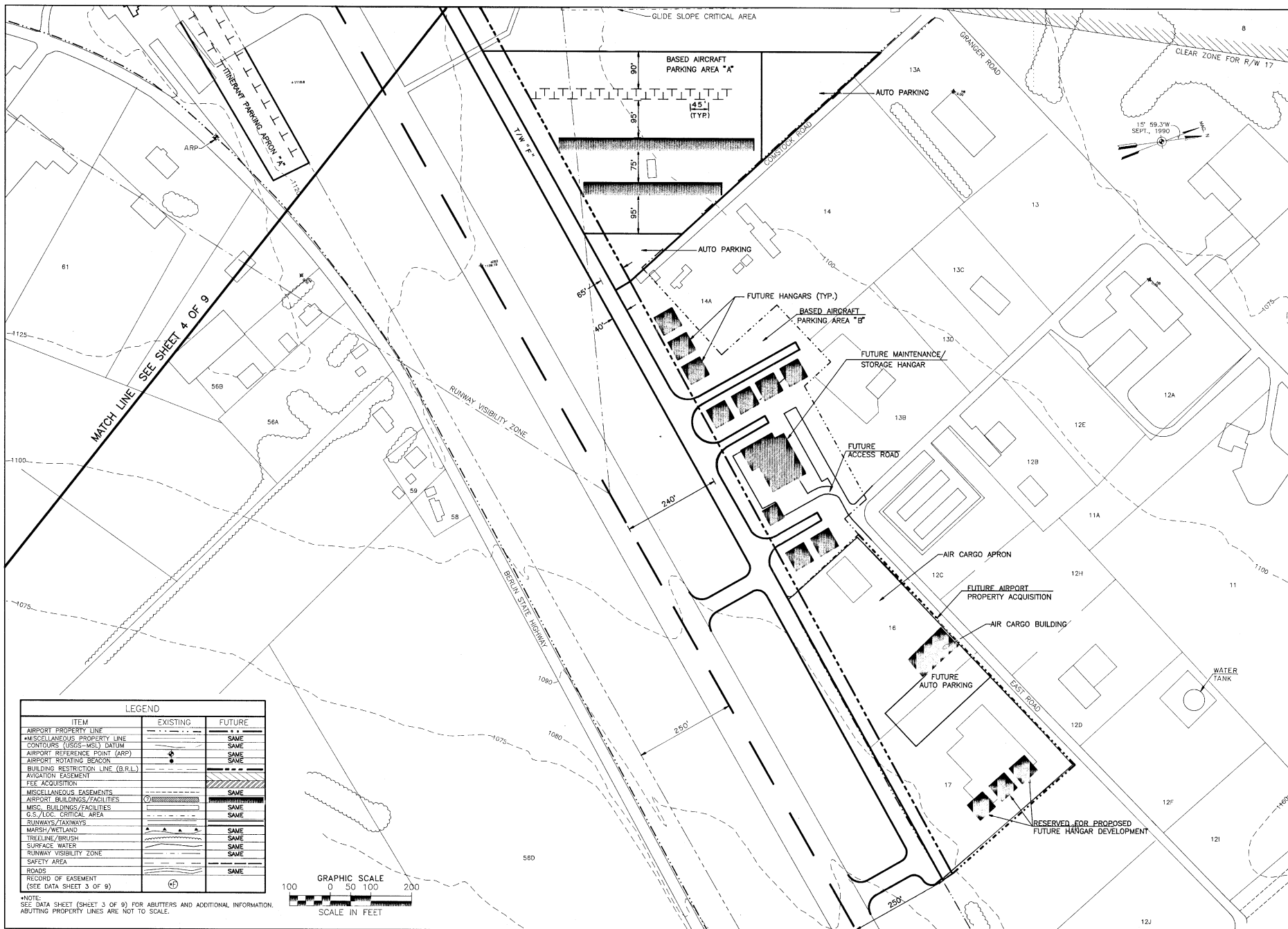


| LEGEND                                     |          |        |
|--------------------------------------------|----------|--------|
| ITEM                                       | EXISTING | FUTURE |
| AIRPORT PROPERTY LINE                      | ---      | ---    |
| MISCELLANEOUS PROPERTY LINE                | ---      | ---    |
| CONTOURS (100'S-MSL) DATUM                 | +        | +      |
| AIRPORT REFERENCE POINT (ARP)              | +        | +      |
| AIRPORT ROTATING BEACON                    | +        | +      |
| BUILDING RESTRICTION LINE (B.R.L.)         | ---      | ---    |
| AVIATION 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) | ---      | ---    |

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

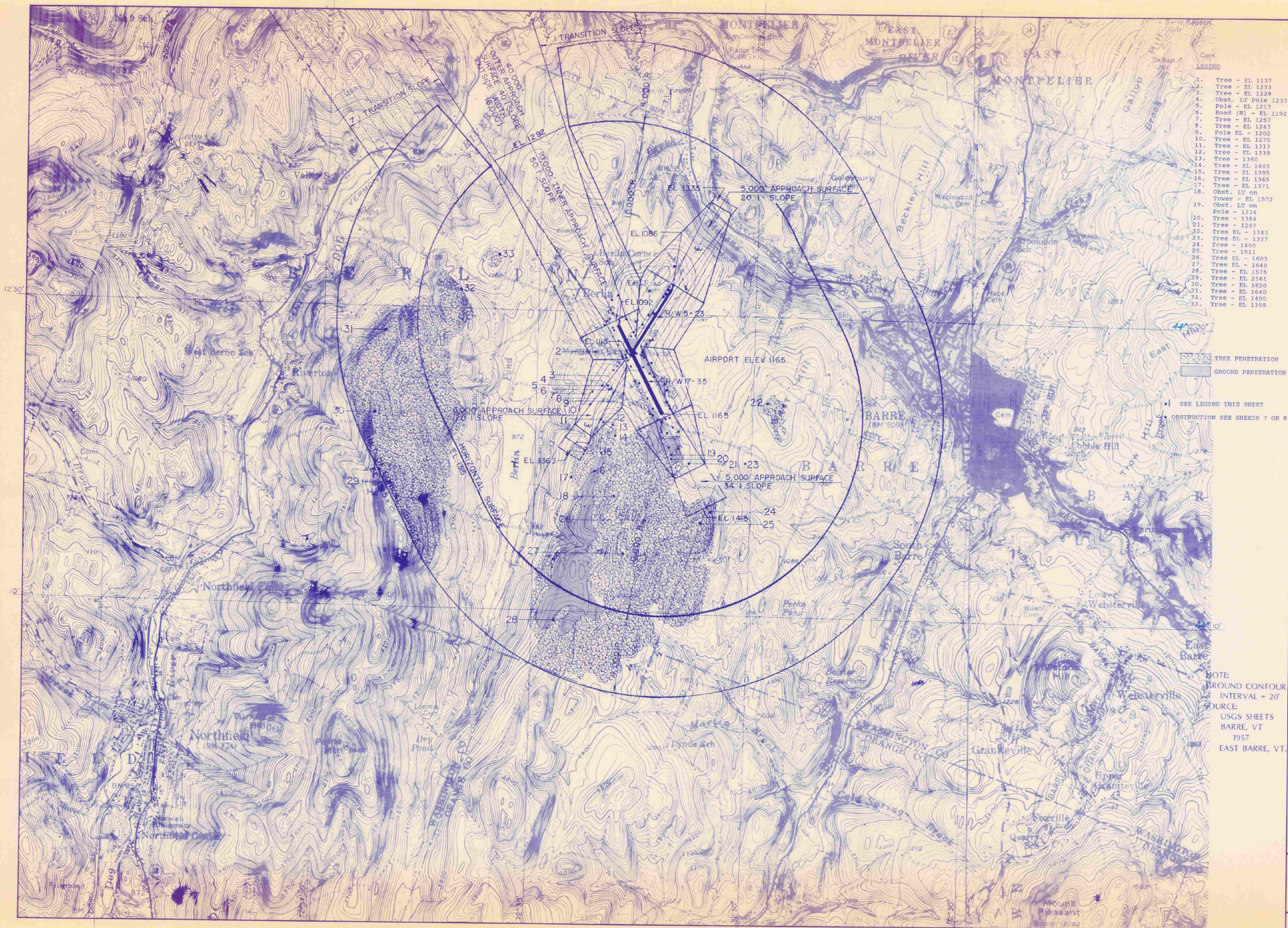


|                    |                                  |
|--------------------|----------------------------------|
| ENGINEER/ARCHITECT |                                  |
| PROJECT NO.        | 60802                            |
| FILE NAME          | 60802.DWG                        |
| DATE               | 1991                             |
| SCALE              | 1" = 100'                        |
| DATE               | MARCH 1991                       |
| DESIGNER           | HOYLE, TANNER & ASSOCIATES, INC. |
| PROJECT            | EDWARD F. KNAPP STATE AIRPORT    |
| LOCATION           | BERLIN, VERMONT                  |
| DRAWING NO. 4      |                                  |
| SHEET 4 OF 8       |                                  |



|                    |  |                                                         |  |                 |  |                   |  |
|--------------------|--|---------------------------------------------------------|--|-----------------|--|-------------------|--|
| ENGINEER/ARCHITECT |  | PROJECT NO.                                             |  | FILE NAME       |  | DATE              |  |
|                    |  | 60802                                                   |  | 60802ALP        |  | 10/01/2000        |  |
|                    |  | HOYLE, TANNER & ASSOCIATES, INC.                        |  | HFA             |  | DATE: MARCH, 1991 |  |
|                    |  | 100 COMMENCE PL. NORTH, BURLINGTON, NEW HAMPSHIRE 03102 |  | HFA             |  | SCALE: 1" = 100'  |  |
|                    |  | EDWARD F. KNAPP STATE AIRPORT                           |  | BERLIN, VERMONT |  | DRAWING NO.       |  |
|                    |  | TERMINAL AREA PLAN-NORTH                                |  |                 |  | 5                 |  |
|                    |  | SHEET                                                   |  | 5               |  | OF 9              |  |





|                                                                                                            |  |                                                                                   |  |                      |  |
|------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|----------------------|--|
| ENGINEER/ARCHITECT                                                                                         |  | PROJECT NO                                                                        |  | 60802                |  |
| HOYLE, TANNER & ASSOCIATES, INC.<br>95 NORTH MAIN STREET<br>BURLINGTON, VERMONT 05401<br>TEL: 862-242-1111 |  | DATE                                                                              |  | MARCH, 1991          |  |
| DRAWING NO                                                                                                 |  | 6                                                                                 |  | SHEET 6 OF 9         |  |
| EDWARD F. KNAPP STATE AIRPORT<br>BERLIN, VERMONT<br>FAR PART 77<br>SURFACES PLAN                           |  | SCALE: 1" = 2000'<br>DATE: MARCH, 1991<br>DES BY: JLP<br>DR BY: HW<br>CHD BY: RJD |  | DO NOT SCALE DRAWING |  |

















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

*X* 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.

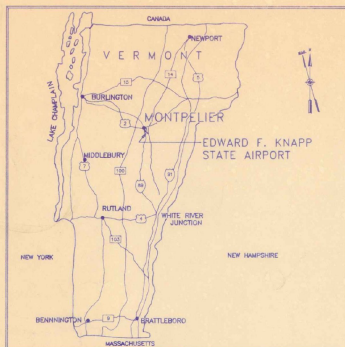
Review of this master plan and the ALP has been with respect to safety, efficiency and utilization, it does not represent a commitment to provide financial assistance to implement the proposed plan.

Sincerely,

*William M. Cronan*  
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**

FAA PROJECT NO. 3-50-0001-0186

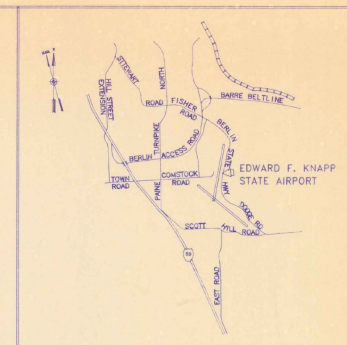
VAOT PROJECT NO. AIR 03-2047

## 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

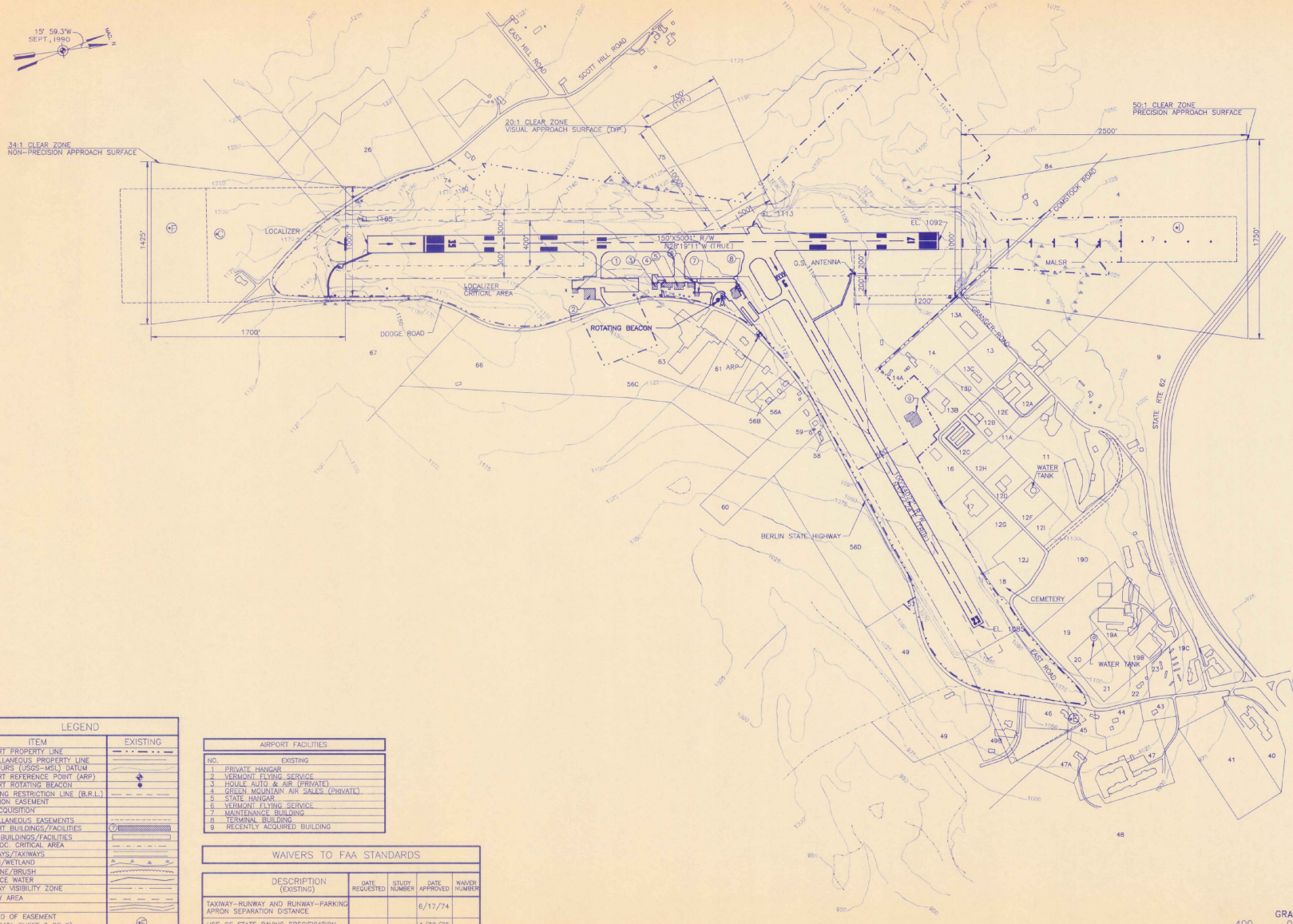
MARCH, 1991

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



VICINITY MAP  
NOT TO SCALE

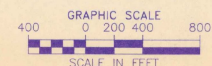
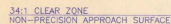




| WAIVERS TO FAA STANDARDS                                         |                   |                 |                  |                  |
|------------------------------------------------------------------|-------------------|-----------------|------------------|------------------|
| DESCRIPTION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

[illegible]





| 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

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

Approved *John H. Lee*  
Date *OCT 21 1991*

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

VERMONT AGENCY OF TRANSPORTATION  
MONTPELIER, VERMONT

Approved *Jonathan D. Niles Atiles*  
Date *April 15, 1991*

E.F. KNAPP MASTER PLAN UPDATE  
ADVISORY COMMITTEE

Approved \_\_\_\_\_  
\_\_\_\_\_ Advisory Committee Chairman  
Date \_\_\_\_\_

SHEET 2 OF 9



PLOT  
No.

## CURRENT OWNER

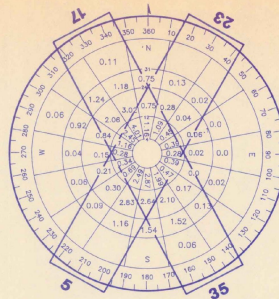
- 1 Alow, Chester & Ella  
2 Woodbury, Harold & Ella  
3 Sandbrien, Joseph  
4 Berlin Properties, Inc.  
5 Balch, Elizabeth and Clark, Anita  
6 Berlin Properties, Inc.  
7 Allico, Frank  
8 State of Vermont  
9 Woods, Donald  
10 Cooley Asphalt Paving  
11 A. G. Anderson, Inc.  
12 Royce, Cecil Jr. & Vicki  
13 Zahm, Michael & Christine  
14 Langwin, Wilfred, Jr. & Jean  
15 LaPrade Realty  
16 D & D Investment Corp.  
17 Mountain Cable Co.  
18 Langwin, Wilfred, Jr. & Jean and Pollard,  
19 Wilson & Elizabeth  
20 Galfetti, Eugene  
21 Galfetti, Eugene  
22 Laque, Inc.  
23 Laque, Inc.  
24 Laque, Inc.  
25 Videtur, Fecteau Construction, Inc.  
26 Hensy, Lawrence & Mary  
27 Nicom Coatings Corp.  
28 Poli, Edward  
29 Videtur, Fecteau Construction, Inc.  
30 Comstock, Edwin & Pearl  
31 Huntington Homes, Inc.  
32 Stratos, Raymond  
33 Rodman, Donald & Gerald and Pinta, Irving  
34 Town of Berlin (Cemetery)  
35 Staudt, Richard & Jane  
36 Tennis Unlimited  
37 Wyan Associates  
38 Lamb, Lawrence & Jacquelin  
39 Vermont Health Services Corp.  
40 Central Vermont Hospital, Inc.  
41 Laque, Henry  
42 Blow, Chester & Ella  
43 Brock, Bernard  
44 Laque, Inc.  
45 Boill, Paul, Norman & Raymond  
46 Buxton, Roy & Beatrice  
47 Diego, Richard & Rita  
48 Roux, Francis & Jeanette  
49 Parks, Steven  
50 Berlin C.C., Inc.  
51 Johnson, Raymond & Donna  
52 Chapple, John, III c/o Merla Management Services  
53 Kelley, Kathryn  
54 Laque, Henry  
55 Christ the Redeemer Evangelical Lutheran Church, Inc.  
56 Levinsky, Bruce  
57 Miller, F. Lincoln, Jr. & Margaret  
58 Prescott, Everett J., Inc.  
59 Levinsky, Bruce  
60 Levinsky, Bruce  
61 State of Vermont  
62 Cariveau, J. Williams & Mary  
63 Lunowicz, David & Linda  
64 Brown, Virginia and Burlington, Stella  
65 Fecteau, Videtur Construction, Inc.  
66 State of Vermont  
67 Design Sales Systems, Inc.  
68 Perrin, Henry, I. David & Marilyn  
69 Dodge, George  
70 State of Vermont  
71 Merr, Della  
72 Perrin, Marion & Henry, II  
73 Chartrand, Alderick & Friscilla  
74 Perry, Joseph Sr., & Martha  
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## Properties South of Scott Hill Road

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

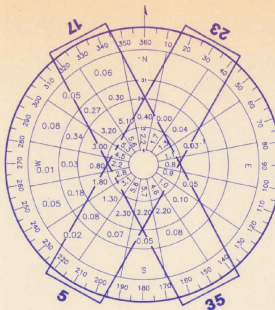
## RECORD OF EASEMENT

| PARCEL<br>No. | PROPERTY<br>OWNER       | EASEMENT AREA & CLEAR AREA     |
|---------------|-------------------------|--------------------------------|
| 1             | DOUG                    | R.O.W. TO BEACON               |
| 2             | COMSTOCK                | EASEMENT & CLEAR AREA          |
| 3             | WOODBURY                | EASEMENT & CLEAR AREA          |
| 4             | DOUG                    | QUADRANT                       |
| 5             | PRESCOTT                | POLE LINE EASEMENT W.D.-05     |
| 6             | STEVENS                 | POWERLINE EASEMENT & R.O.W.-05 |
| 7             | BERLIN PROPERTIES, INC. | AVIGATION EASEMENT W.D.-05     |
| 8             | BROWN & BURLINGTON      | POWERLINE EASEMENT W.D.-05     |



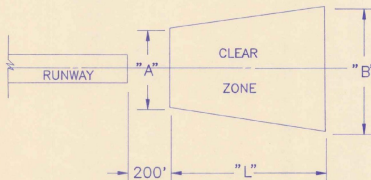
IFR WIND ROSE

IFR WEATHER OCCURS 10.6% OF THE TIME  
12 MPH CROSSWIND COVERAGE RWY 5-23=85.6%  
12 MPH CROSSWIND COVERAGE RWY 17-35=92.2%  
12 MPH CROSSWIND COVERAGE ALL RUNWAYS=98.2%  
=55.3% CALMS + 0-4 MPH  
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 PERIOD 1949-1954  
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



CLEAR ZONE DATA

| RUNWAY      | CATEGORY      | APPROACH<br>SLOPE | "L"    | "A"    | "B"    |
|-------------|---------------|-------------------|--------|--------|--------|
| 17          | PRECISION     | 50:1              | 2,500' | 1,000' | 1,750' |
| 35          | NON-PRECISION | 30:1              | 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'   |

AIRPORT DATA

| ITEM                                | EXISTING                     | FUTURE   |
|-------------------------------------|------------------------------|----------|
| AIRPORT ELEVATION (U.S.G.S.-M.S.L.) | 1165'                        | SAME     |
| OPERATIONAL ROLE                    | COMM. SERV. OTHER            | SAME     |
| MEAN MAX. TEMP. HOTTEST MONTH       | 84.8°F                       | SAME     |
| AIRPORT CATEGORY                    | SHORT HAUL                   | SAME     |
| TERMINAL BUILDINGS                  | VOR                          | LOC. VOR |
| COMBINED WIND COVERAGE (A/W)        | 96.7% (12MPH)                | SAME     |
| DIST. & DIR. TO MONTPELLIER         | 3 NM WEST                    | SAME     |
| LAND OWNED IN FEET (ACRES)          | 51.27                        | + 56.5   |
| AVIGATION EASEMENT (ACRES)          | 51.27                        | 124.27   |
| OWNER                               | STATE OF VERMONT             | SAME     |
| MAGNETIC DECLINATION                | 15° 58' 5" W                 | VARIES   |
| AIRCRAFT DESIGN GROUP               | 5                            | SAME     |
| AIRCRAFT APPROACH SPEED CLASS       | 5                            | SAME     |
| AIRPORT REFERENCE POINT (ARP)       | 44°12'12.4"N<br>72°33'48.0"W | SAME     |

• 5 ACRES WILL POSSIBLY BE SOLD BY AIRPORT

RUNWAY DATA

| ITEM                         | RUNWAY 17-35                                                                                     | RUNWAY 5-23                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| PHYSICAL LENGTH              | EXISTING 5,000'                                                                                  | FUTURE 5,000'                                                                                  |
| WIDTH                        | EXISTING 150'                                                                                    | FUTURE 150'                                                                                    |
| SAFETY AREA WIDTH            | EXISTING 523' *                                                                                  | FUTURE 150' *                                                                                  |
| TAXWAY - WIDTH               | EXISTING 40'                                                                                     | FUTURE 40'                                                                                     |
| SURFACE COMPOSITION          | EXISTING ASPHALT                                                                                 | FUTURE ASPHALT                                                                                 |
| PMT. STRENGTH (x1000#)       | EXISTING 31SW/44DW                                                                               | FUTURE 30SW/46DW                                                                               |
| PAVEMENT TYPE                | EXISTING ASPHALT                                                                                 | FUTURE ASPHALT                                                                                 |
| RUNWAY LIGHTING              | EXISTING MRLS                                                                                    | FUTURE MRLS                                                                                    |
| RUNWAY MARKING               | EXISTING BASIC                                                                                   | FUTURE BASIC                                                                                   |
| EFFECTIVE GRADE (ft)         | EXISTING 1.48%                                                                                   | FUTURE 1.48%                                                                                   |
| A/W WIND COVERAGE (12mph)    | EXISTING 92.2%                                                                                   | FUTURE 94.8%                                                                                   |
| APPROACH AIDS                | EXISTING ILS LOC RW17<br>VOR/DME RW35<br>MALSR RW 17<br>REL RW35                                 | FUTURE NONE                                                                                    |
| VISUAL AIDS                  | EXISTING REIL RW35                                                                               | FUTURE PAPI RW 5<br>PAPI RW 23                                                                 |
| CRITICAL AIRCRAFT APPR. SPD. | EXISTING CITATION III (8)                                                                        | FUTURE BE99(B)                                                                                 |
| CRITICAL AIRCRAFT WINGSPAN   | EXISTING CITATION III (8)                                                                        | FUTURE BE99(B)                                                                                 |
| RUNWAY BEARINGS              | EXISTING N28°19'11"W (TRUE)                                                                      | FUTURE N32°22'24"E (TRUE)                                                                      |
| RUNWAY END COORDINATES       | EXISTING 5 44° 12' 08.77" N<br>23 44° 12' 42.31" N<br>17 44° 12' 38.00" N<br>35 44° 11' 40.19" N | FUTURE 5 72° 33' 56.72" W<br>23 72° 33' 27.16" W<br>17 72° 34' 05.64" W<br>35 72° 33' 33.08" W |

\* REQUIRED

ENGINEER/ARCHITECT

PROJECT NO.  
60802FILE NAME  
60802ADATE  
10/10/1991Hoyle, Tanner & Associates, Inc. **HA**  
engineers  
planners  
surveyors  
architects

DATE MARCH, 1991

SCALE: N.T.S.

EDWARD F. KNAPP STATE AIRPORT  
BERLIN, VERMONT

DATA SHEET

DRAWING NO.

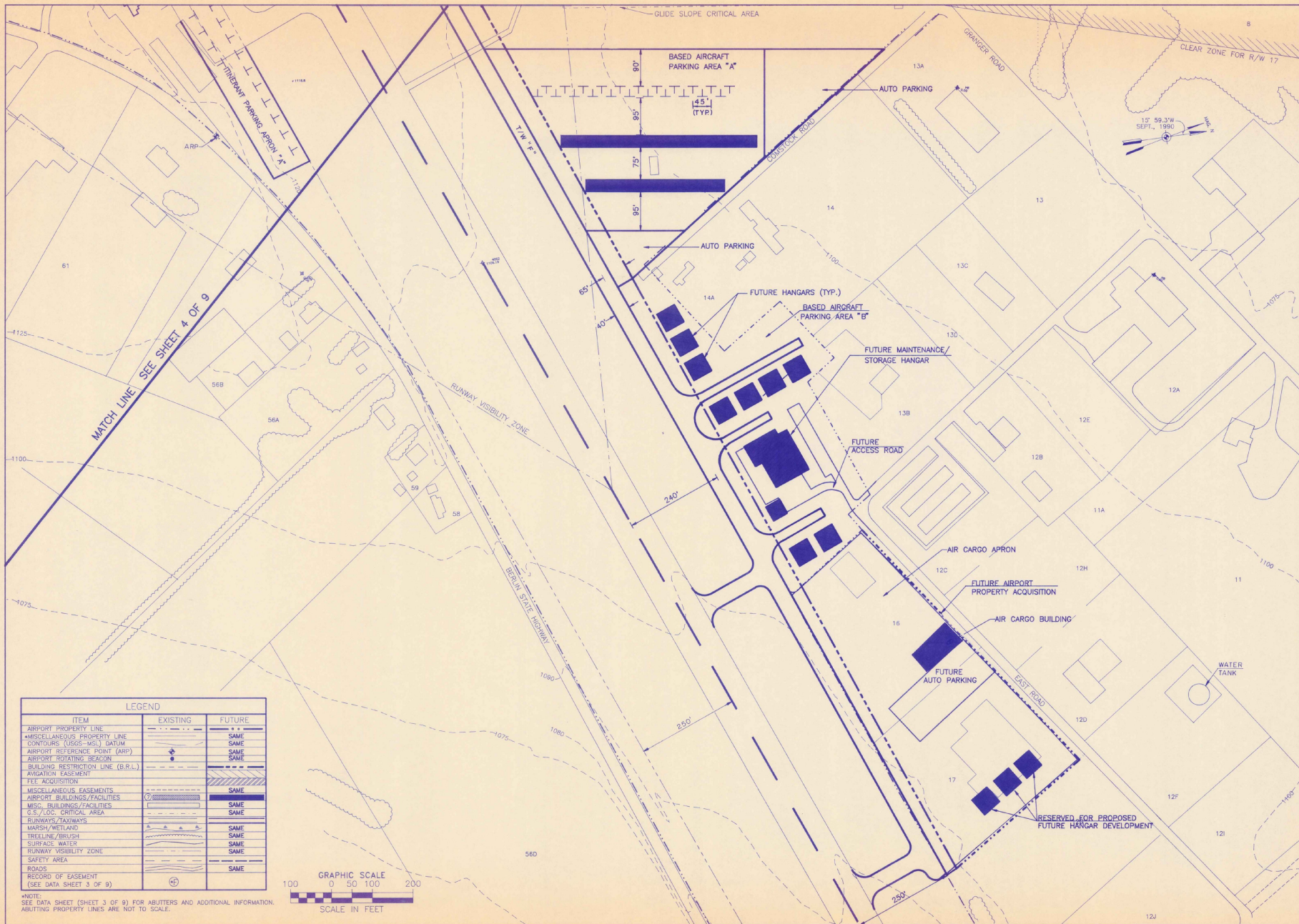
3

SHEET 3 OF 9



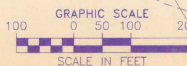






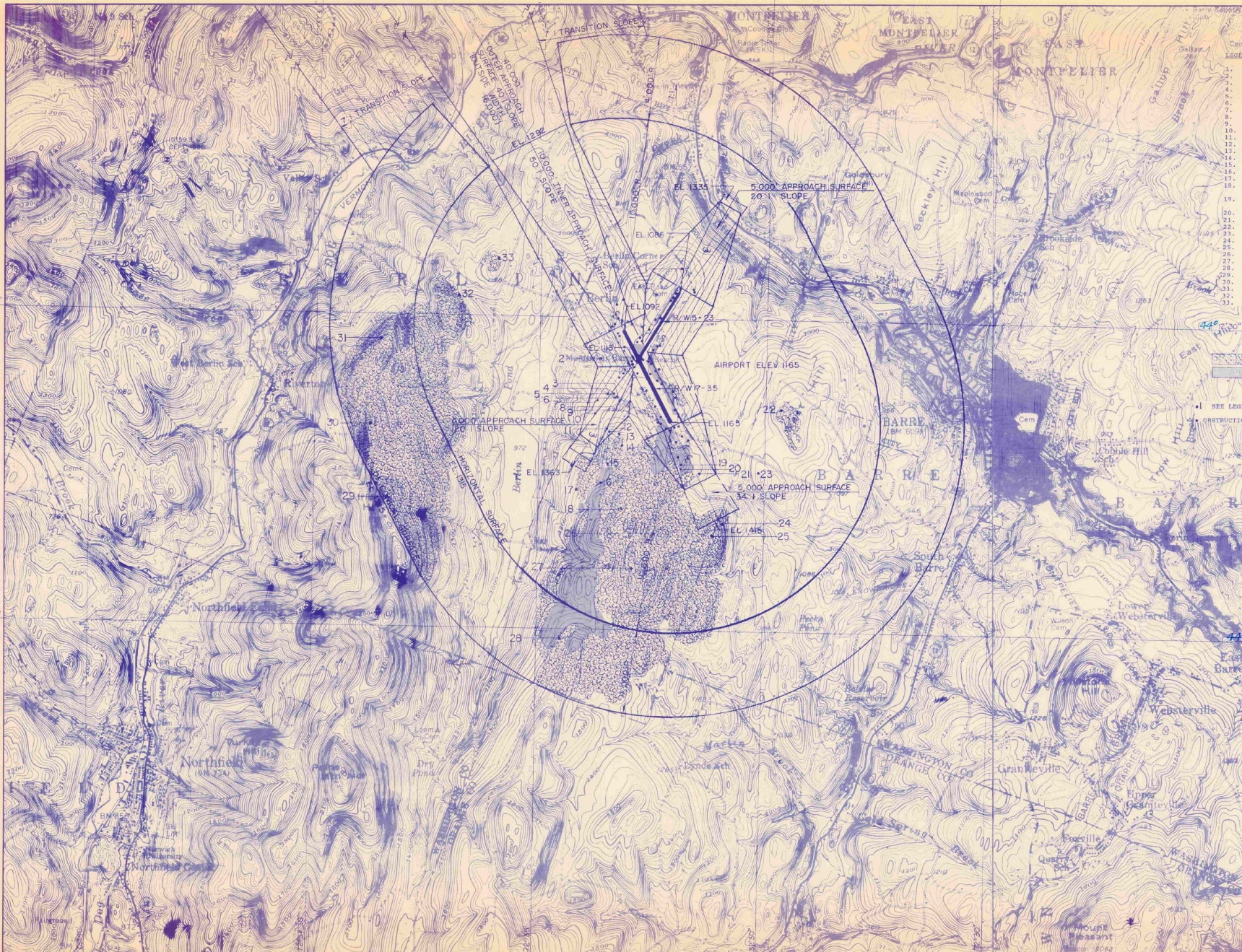
| LEGEND                             |          |        |
|------------------------------------|----------|--------|
| ITEM                               | EXISTING | FUTURE |
| AIRPORT PROPERTY LINE              | ---      | ---    |
| MISCELLANEOUS PROPERTY LINE        | ---      | ---    |
| CONTOURS (100'-HGT) DATUM          | ---      | ---    |
| AIRPORT REFERENCE POINT (ARP)      | +        | +      |
| AIRPORT ROTATING BEACON            | +        | +      |
| BUILDING RESTRICTION LINE (B.R.L.) | ---      | ---    |
| AVIATION 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.



|                                                                                           |                   |
|-------------------------------------------------------------------------------------------|-------------------|
| ENGINEER/ARCHITECT                                                                        |                   |
| PROJECT NO. 60802                                                                         |                   |
| DATE: MARCH, 1991                                                                         |                   |
| SCALE: 1"=100'                                                                            |                   |
| DRAWING NO. 5                                                                             |                   |
| SHEET 5 OF 9                                                                              |                   |
| TERMINAL AREA PLAN-NORTH                                                                  |                   |
| EDWARD F. KNAPP STATE AIRPORT<br>BERLIN, VERMONT                                          |                   |
| Hoyle, Tanner & Associates, Inc.<br>100 Commerce Park North, Bedford, New Hampshire 03112 |                   |
| HIA<br>architects<br>engineers<br>planners<br>landscape architects                        |                   |
| DATE: MARCH, 1991                                                                         | DATE: MARCH, 1991 |
| SCALE: 1"=100'                                                                            | SCALE: 1"=100'    |
| PROJECT NO. 60802                                                                         | PROJECT NO. 60802 |
| DATE: MARCH, 1991                                                                         | DATE: MARCH, 1991 |
| SCALE: 1"=100'                                                                            | SCALE: 1"=100'    |
| DRAWING NO. 5                                                                             |                   |
| SHEET 5 OF 9                                                                              |                   |



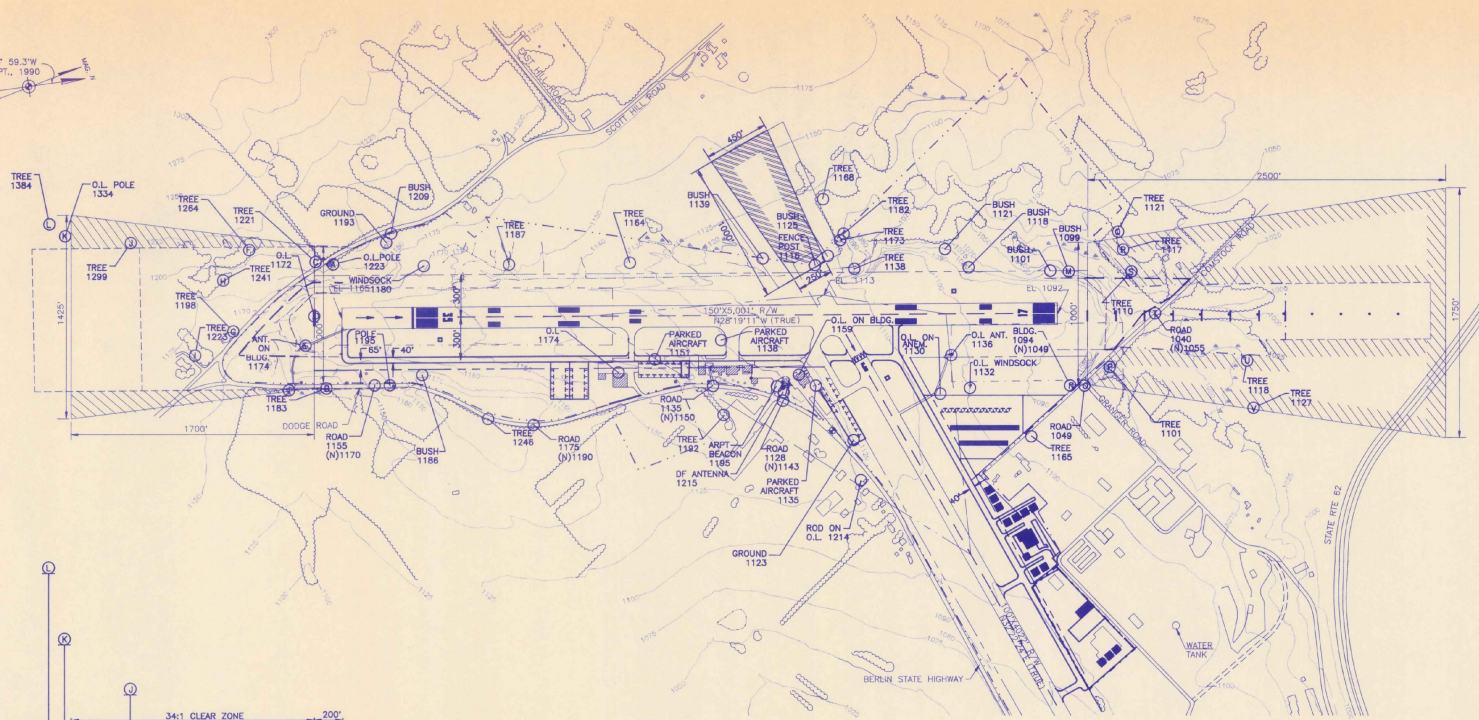
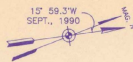


1. Tree - EL 1137
2. Tree - EL 1233
3. Tree - EL 1229
4. Obst. LT Pole 1233
5. Pole - EL 1217
6. Road (H) - EL 1192
7. Tree - EL 1257
8. Tree - EL 1243
9. Pole - EL 1202
10. Tree - EL 1275
11. Tree - EL 1313
12. Tree - EL 1339
13. Tree - EL 1360
14. Tree - EL 1403
15. Tree - EL 1395
16. Tree - EL 1365
17. Tree - EL 1371
18. Obst. LT on
19. Tower - EL 1572
20. Obst. LT on
21. Pole - EL 1384
22. Tree - EL 1327
23. Tree - EL 1297
24. Tree - EL 1343
25. Tree - EL 1327
26. Tree - EL 1400
27. Tree - EL 1403
28. Tree - EL 1640
29. Tree - EL 1575
30. Tree - EL 1561
31. Tree - EL 1620
32. Tree - EL 1640
33. Tree - EL 1400
34. Tree - EL 1359

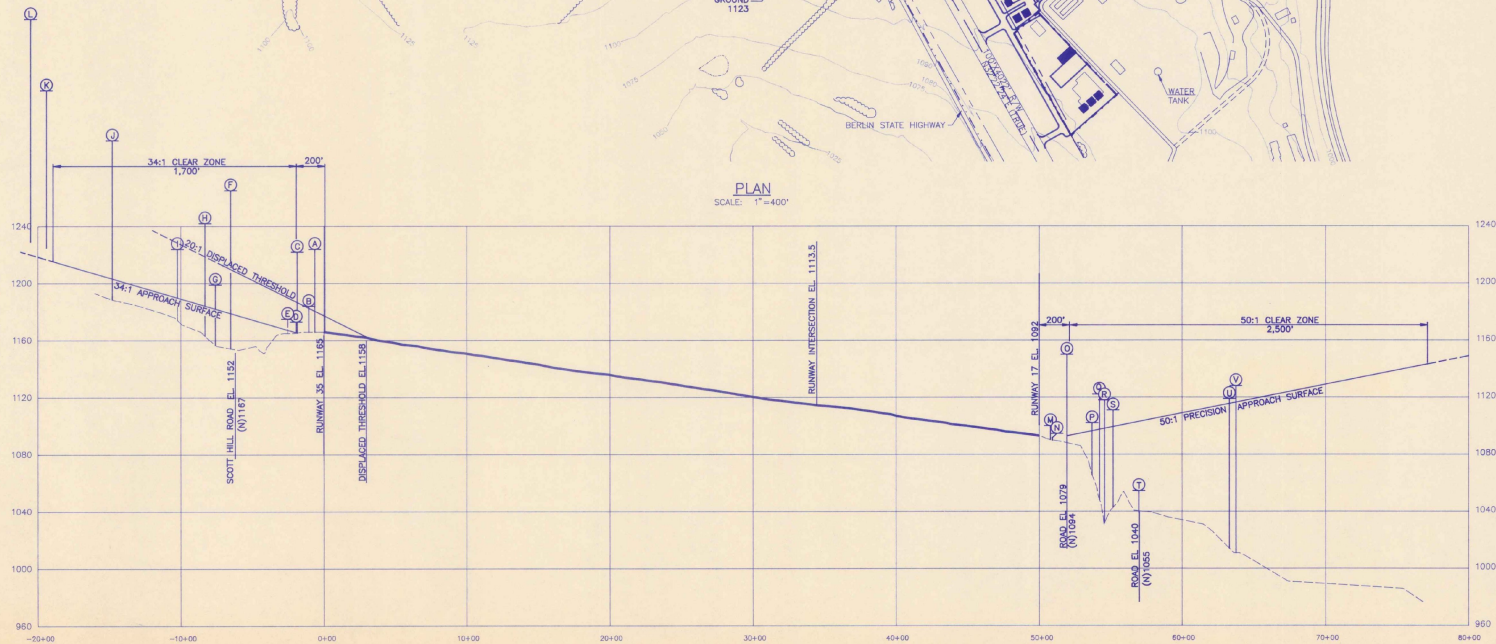
SEE LEGEND THIS SHEET  
CONSTRUCTION SEE SHEETS 7 OR 8

|                                                  |  |
|--------------------------------------------------|--|
| ENGINEER/ARCHITECT                               |  |
| PROJECT NO. 60802                                |  |
| DATE MARCH, 1991                                 |  |
| SCALE 1" = 2000'                                 |  |
| DO NOT SCALE DRAWING                             |  |
| EDWARD F. KNAPP STATE AIRPORT<br>BERLIN, VERMONT |  |
| FAR PART 77<br>SURFACES PLAN                     |  |
| DRAWING NO. 6                                    |  |
| SHEET 6 OF 9                                     |  |





PLAN  
SCALE: 1"=400'



PROFILE

- ⊙ - OBSTRUCTIONS TO RUNWAY 17-35 APPROACH SURFACES
- - OBSTRUCTIONS TO RUNWAY 17-35 PRIMARY OR TRANSITIONAL SURFACES

ENGINEER/ARCHITECT

PROJECT NO.  
60802

Hoyle, Tanner & Associates, Inc.  
architects  
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planners  
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100 Commerce Park North, Bedford, New Hampshire 03112

EDWARD F. KNAPP STATE AIRPORT  
BERLIN, VERMONT

PLAN & PROFILE  
RUNWAY 17-35

DRAWING NO.

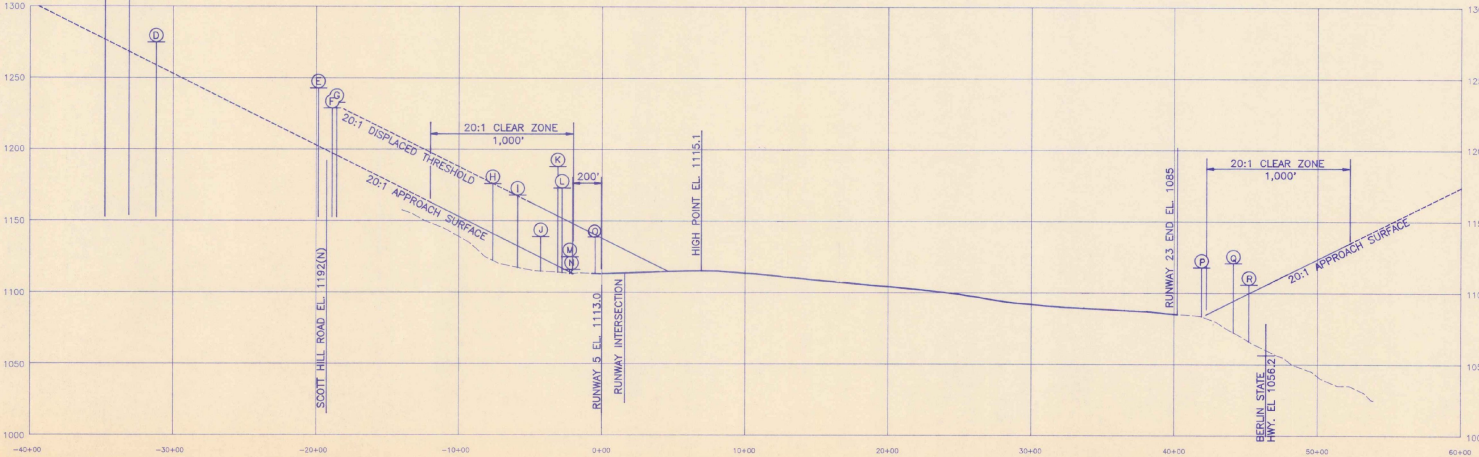
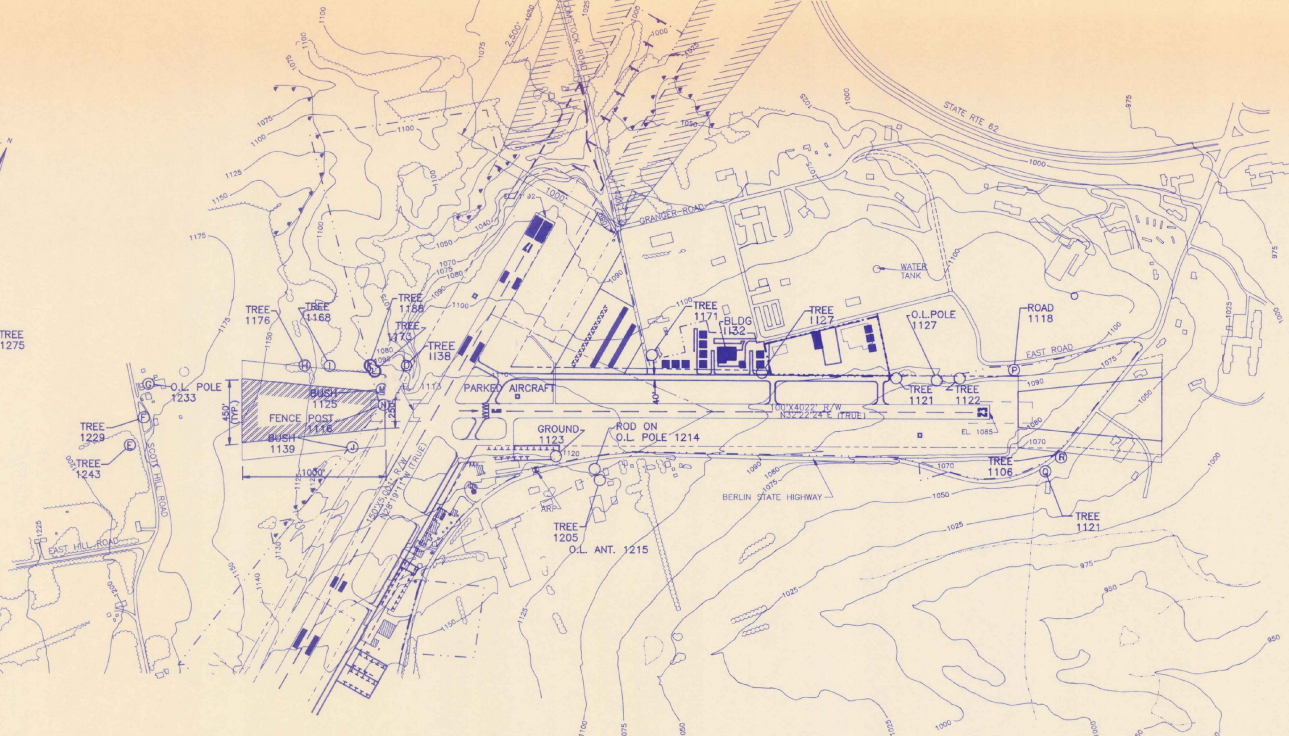
7

SHEET 7 OF 9





TREE 1275  
TREE 1313  
TREE 1339  
TREE 1360



- Ⓔ - OBSTRUCTIONS TO RUNWAY 5-23 APPROACH SURFACES
- ⓪ - OBSTRUCTIONS TO RUNWAY 5-23 PRIMARY OR TRANSITIONAL SURFACES

ENGINEER/ARCHITECT

| PROJECT NO. | 60802   |
|-------------|---------|
| FILE NAME   | 60802P5 |
| DATE        |         |
| DESCRIPTION |         |

Hoyle, Tanner & Associates, Inc.  
engineers  
architects  
planners  
consultants  
100 Commercial Street, Suite 1000  
Boston, MA 02108  
DATE: MARCH, 1991  
SCALE: AS SHOWN  
CHG. BY: RJD  
REV. BY: HW

EDWARD F. KNAPP STATE AIRPORT  
BERLIN, VERMONT  
PLAN & PROFILE  
RUNWAY 5-23



