

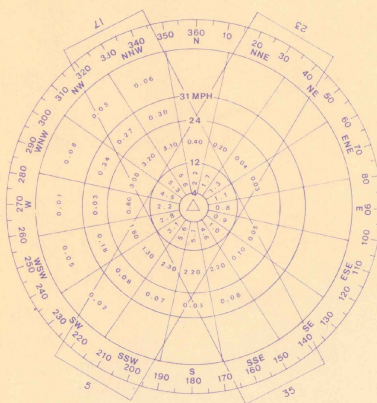
VERMONT AGENCY OF TRANSPORTATION

EDWARD F. KNAPP STATE AIRPORT

BERLIN, VERMONT

LAYOUT PLAN

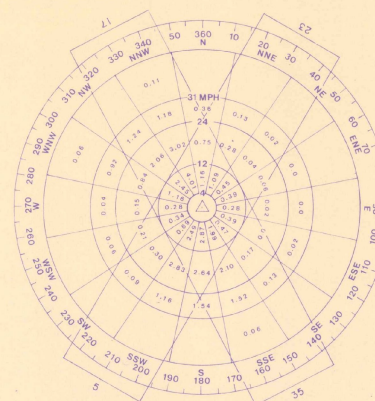
ALL WEATHER WIND ROSE



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%
Δ = 29.3% CALMS + 0-4 MPH
NO. OF OBSERVATIONS 51,840, PERIOD 1949-1954

SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP AIRPORT, BERLIN, VERMONT

IFR WIND ROSE



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%
Δ = 55.3% CALMS + 0-4 MPH
NO. OF OBSERVATIONS 4,662, PERIOD 1950-1954

IFR WEATHER OCCURS 10.6% OF THE TIME

LIST OF DRAWINGS

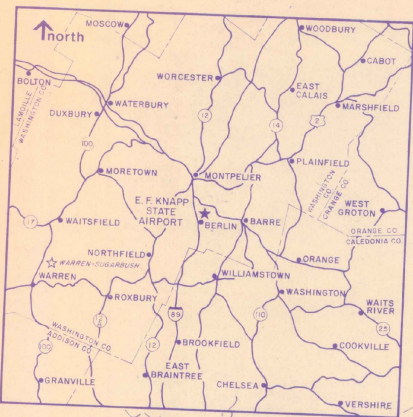
1. COVER SHEET
2. PROPOSED LAYOUT PLAN
3. TERMINAL AREA PLAN
4. PLAN & PROFILE RUNWAY 17-35
5. PLAN & PROFILE RUNWAY 5-23
6. AIRPORT SURFACES PART 77

RUNWAY DATA

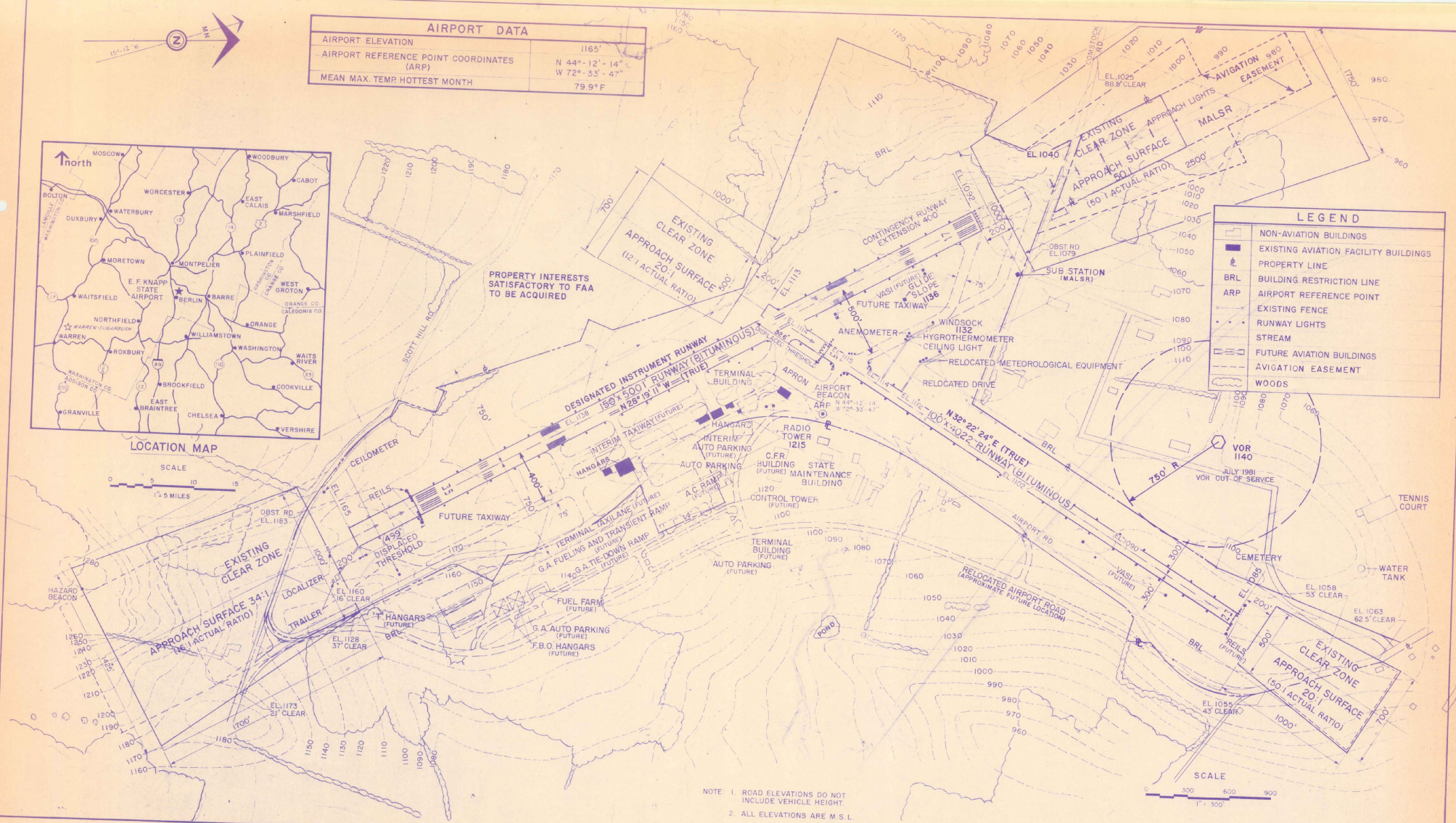
	R U N W A Y							
	R U N W A Y				R U N W A Y			
	5		23		17		35	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
EFFECTIVE GRADIENT (IN %)	0.79%	SAME	0.79%	SAME	1.46%	SAME	1.46%	SAME
RUNWAY DESIGNATION	BASIC	SAME	BASIC	SAME	PREC. INSTR.	SAME	PREC. INSTR.	SAME
APPROACH SURFACES	20:1	SAME	20:1	SAME	50:1	SAME	34:1	SAME
NAVIGATIONAL AIDS	NONE	SAME	NONE	SAME	ILS	SAME	VOR	SAME
VISUAL AIDS	—	REILS	—	VASI-2, REILS	MALSR	VASI-4	REILS	SAME
RUNWAY LIGHTING	—	MIRL	—	MIRL	MIRL	HIRL	MIRL	HIRL
RUNWAY MARKING	BASIC	SAME	BASIC	SAME	PREC. INSTR.	SAME	PREC. INSTR.	SAME
% WIND COVERAGE	ALL WEATHER 84.8% - IFR 85.6%				ALL WEATHER 92.2% - IFR 92.6%			
PAVEMENT STRENGTH	12,500 LBS.		12,500 LBS.		31,000 LBS.		31,000 LBS.	
GROSS AIRCRAFT WEIGHT-SINGLE WHEEL	12,500 LBS.		12,500 LBS.		31,000 LBS.		31,000 LBS.	



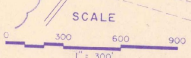
AIRPORT DATA	
AIRPORT ELEVATION	1165'
AIRPORT REFERENCE POINT COORDINATES (ARP)	N 44°-12'-14" W 72°-33'-47"
MEAN MAX. TEMP HOTTEST MONTH	79.9°F



LOCATION MAP

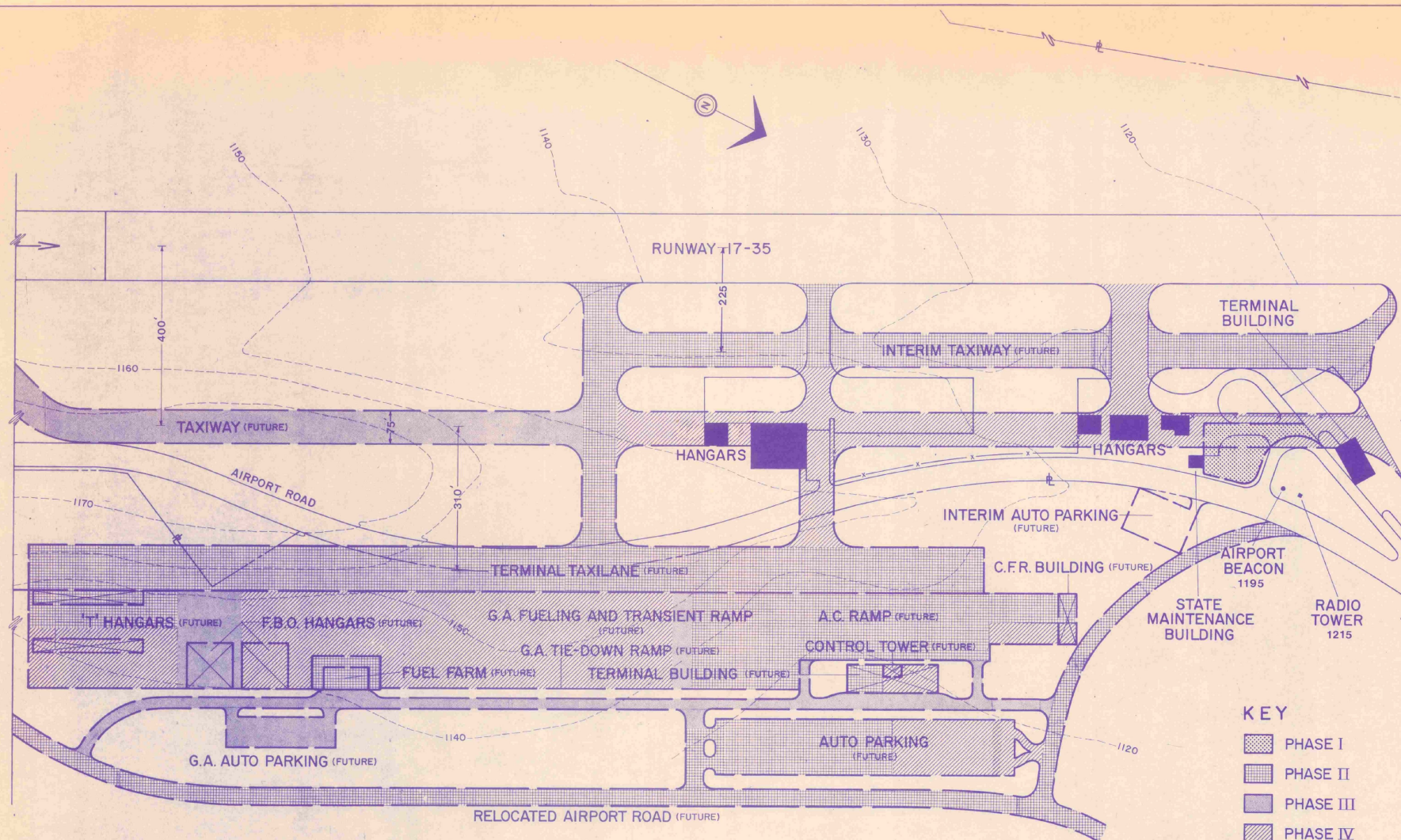


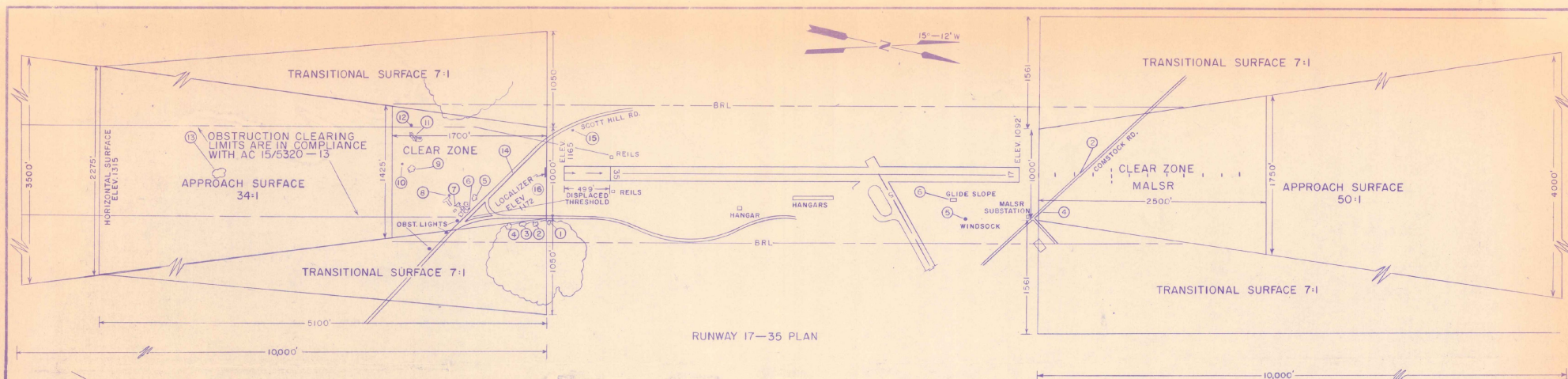
LEGEND	
[Symbol]	NON-AVIATION BUILDINGS
[Symbol]	EXISTING AVIATION FACILITY BUILDINGS
[Symbol]	PROPERTY LINE
[Symbol]	BRL BUILDING RESTRICTION LINE
[Symbol]	ARP AIRPORT REFERENCE POINT
[Symbol]	EXISTING FENCE
[Symbol]	RUNWAY LIGHTS
[Symbol]	STREAM
[Symbol]	FUTURE AVIATION BUILDINGS
[Symbol]	AVIGATION EASEMENT
[Symbol]	WOODS



FEDERAL AVIATION ADMINISTRATION		VERMONT AGENCY OF TRANSPORTATION	
Approved	Chief of Airport Planning Branch	Approved	Secretary of Transportation
Approval Subject to Comments and Recommendations in Letter Dated		Approval	Director Engineering and Construction
Date		Date	

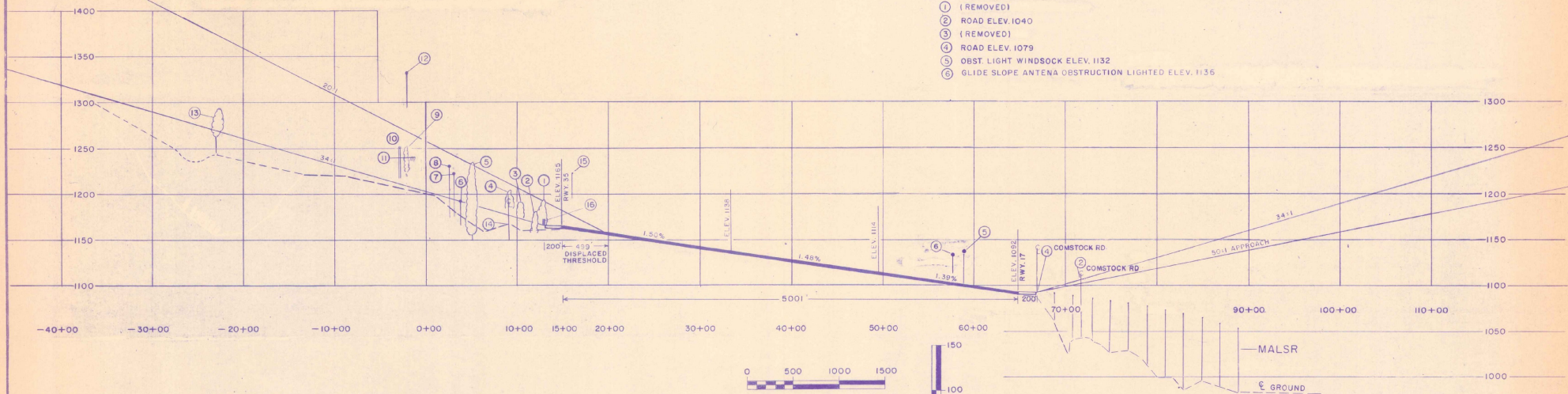
EDWARD F. KNAPP STATE AIRPORT
Proposed Airport Layout Plan





RUNWAY 17-35 PLAN

- ① (REMOVED)
- ② ROAD ELEV. 1040
- ③ (REMOVED)
- ④ ROAD ELEV. 1079
- ⑤ OBST. LIGHT WINDSOCK ELEV. 1132
- ⑥ GLIDE SLOPE ANTENNA OBSTRUCTION LIGHTED ELEV. 1136

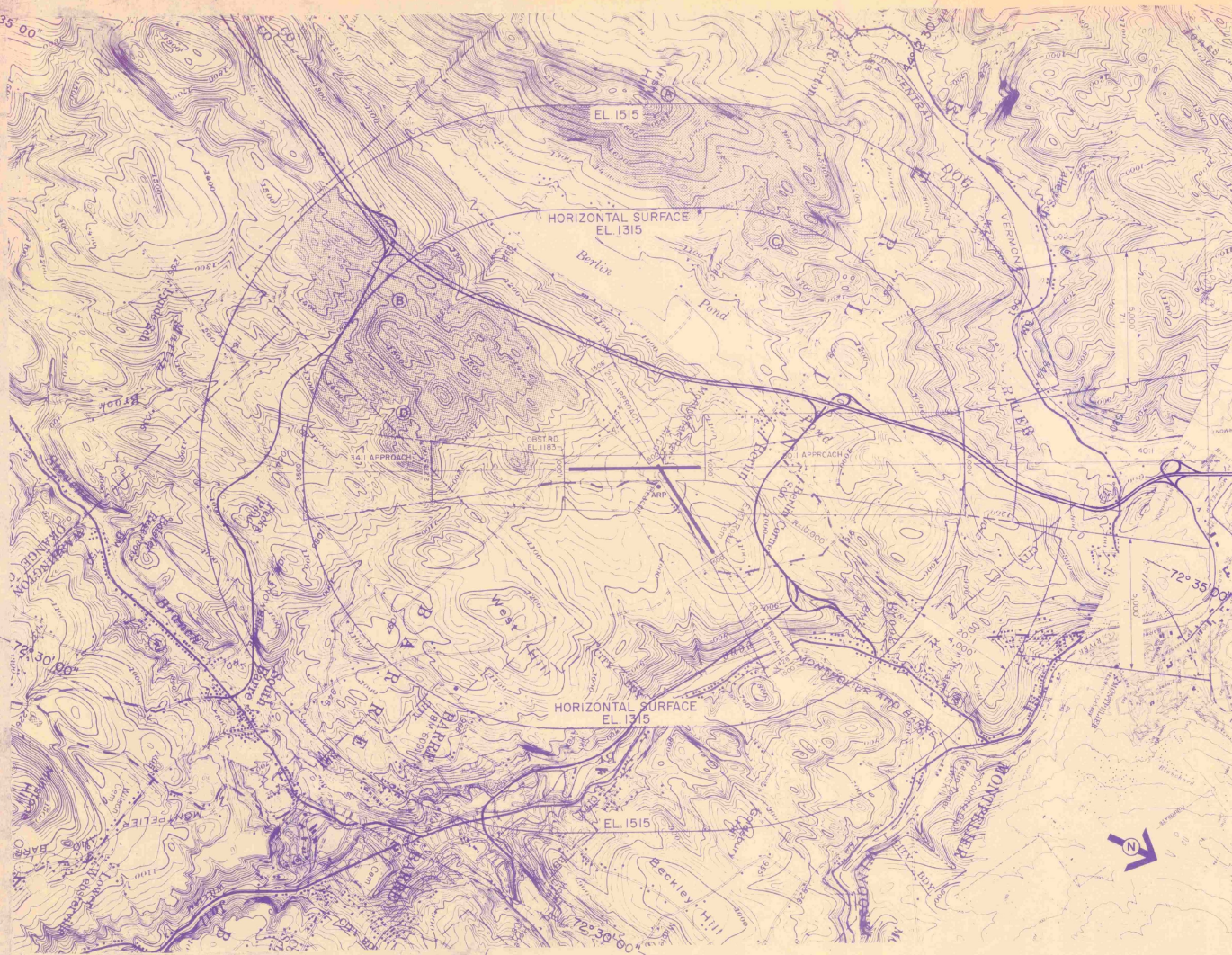


RUNWAY 17-35 CENTERLINE PROFILE

- ① TREE ELEV. 1193
- ② TREE ELEV. 1181
- ③ TREE ELEV. 1192
- ④ TREES "CLUMP" ELEV. 1205
- ⑤ TREE ELEV. 1234
- ⑥ OBST. LIGHT POLE ELEV. 1193
- ⑦ OBST. LIGHT BARN ELEV. 1223
- ⑧ OBST. LIGHT BARN ELEV. 1231
- ⑨ TREE ELEV. 1255
- ⑩ UTILITY POLE ELEV. 1250
- ⑪ GROUND ELEV. 1234
- ⑫ HAZARD BEACON ELEV. 1333
- ⑬ TREE ELEV. 1290
- ⑭ ROAD ELEV. 1167
- ⑮ OBST. LIGHT POLE ELEV. 1223
- ⑯ OBST. LIGHTED LOCALIZER ANTENNA ELEV. 1172

NOTE 1 TOPOGRAPHICAL DATA SURVEYED BY THE V.A.O.T. IN OCT. 1978 AND JULY 1980
 2 ROAD ELEVATIONS DO NOT INCLUDE VEHICLE HEIGHT
 3 ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL
 4 DISPLACED THRESHOLD DETERMINED BY FRA AC 150/5320-13
 5 FOR SUPPLEMENTAL OBSTRUCTION DATA SEE NATIONAL OCEAN SURVEY OBSTRUCTION CHART 522 AND SHEET 6 OF 6

EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT				
PLAN AND PROFILE RUNWAY 17-35 AND APPROACHES				
REV.	DATE	DRW. BY	CHKD. BY	APPR. BY
VERMONT AGENCY OF TRANSPORTATION PROJECT PLANNING DIVISION MONTPELIER, VERMONT 05602				
SCALE 1"=500' HORIZONTAL 1"=50' VERTICAL				
DES. BY	DRW. BY	CHKD. BY		
STEVENS	LAVIN	LEACH		
DATE AUG. 1981		SHEET 4 OF 6		



 HILLS PENETRATING PART 77
 NAVIGABLE AIRSPACE

EDWARD F. KNAPP STATE AIRPORT
 AIRPORT SURFACES-PART 77
 GROUND OBSTRUCTION STUDY

SCALE: 1"=2000'

