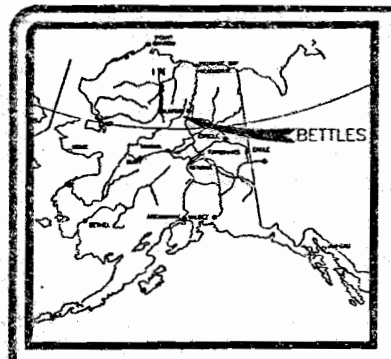
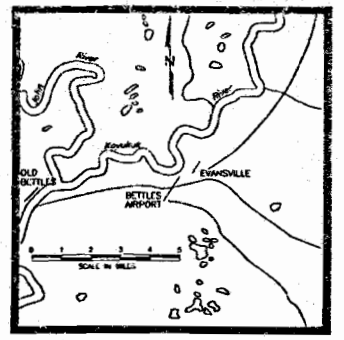
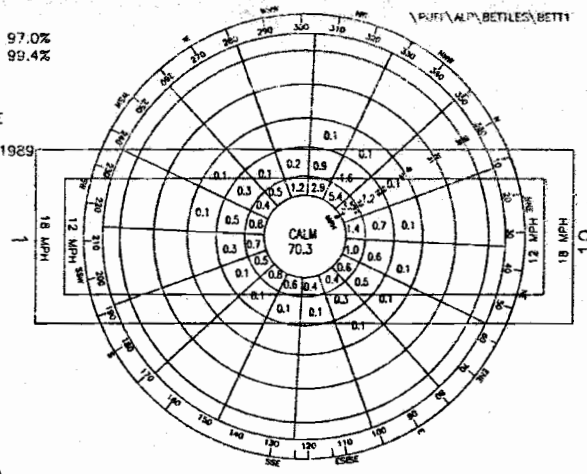


LOCATION MAP
NO SCALE

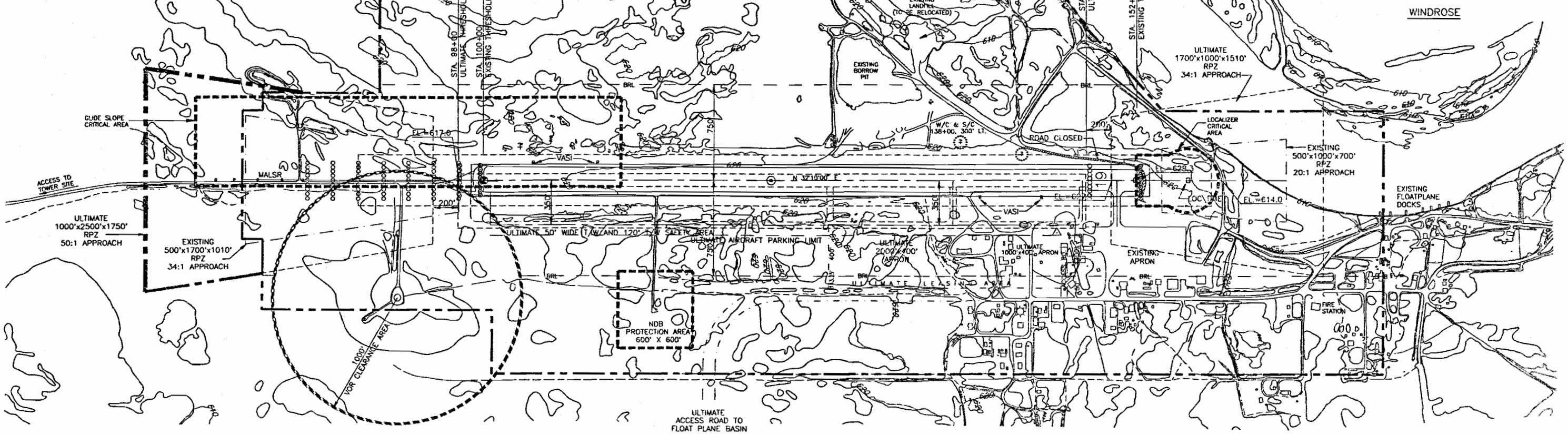


VICINITY MAP
T. 24 N., R. 18 W.
FAIRBANKS MERIDIAN, ALASKA
U.S.G.S. MAP BETTLES (D-4)

WIND ROSE DATA
12 MPH CROSSWIND COVERAGE 97.0%
18 MPH CROSSWIND COVERAGE 99.4%
SOURCE:
U.A.A. CLIMATE CENTER
NATIONAL WEATHER SERVICE
PERIOD:
JAN. 1, 1945 - DEC 31, 1989



WINDROSE



RUNWAY DATA

	RUNWAY 01-19	
	EXISTING	ULTIMATE
EFFECTIVE GRADIENT	0.23	SAME
% WIND COVERAGE	97.0	SAME
INSTRUMENT RUNWAY	NON-PRECISION	PRECISION
RUNWAY SURFACE TYPE	GRAVEL	SAME
RUNWAY BEARING	N32°10'E	SAME
APPROACH SURFACES	34:1/20:1	50:1/20:1
RUNWAY LIGHTING	MIRL	HIRL
RUNWAY MARKING	NONE	NONE
NAVIGATION AIDS	VORTAC,LOC/DME NDB	GLIDE SLOPE GPS
VISUAL AIDS	VASI/MALSR	SAME
R/W DIMENSIONS	150' x 5200'	100' x 5000'
R/W SAFETY AREA	250' x 5400'	400' x 6600'
R/W OBJECT FREE AREA	800' X 7200'	800' X 6600'
R/W OBSTACLE FREE ZONE	400' X 5600'	400' X 5400'

AIRPORT DATA

		EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)		628 (MSL)	627 (MSL)
AIRPORT REFERENCE CODE		C-IV	B-III
MEAN TEMP. HOTTEST MONTH (JULY)		69.0°F	SAME
TAXIWAY LIGHTING		MITL	MITL
AIRPORT REFERENCE POINT(A.R.P.)	LONG.	151°31'48.7"W	
ULT: STA. 123+00	LAT.	66°54'47.7N	
THRESHOLD STA. 100+00 ULT: STA. 98+00	LONG.	151°32'08.8"W	151°32'22.2"W
	LAT.	66°54'30.2"N	66°54'26.9"N
THRESHOLD STA. 152+00 ULT: STA. 148+00	LONG.	151°31'00.2"W	151°31'15.3"W
	LAT.	66°55'13.5"N	66°55'08.5"N
CONTROL YEAR: NAD 83			

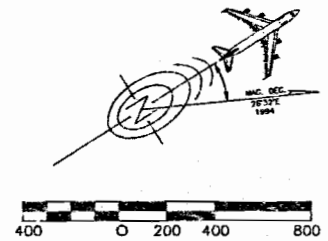
ALL BEARINGS ARE TRUE. GRID AZIMUTH IS 1°30'59"E OF TRUE AZIMUTH.

LEGEND

	EXISTING	ULTIMATE
PROPERTY LINE		
BUILDING RESTRICTION LINE (B.R.L.)	BRL	SAME
DEVELOPMENT		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
LIGHTED WIND CONE		
BUILDINGS		
ROADWAYS		
THRESHOLD LIGHTS		
FENCING	x x	x x
AIRPORT REFERENCE POINT	CONTOURS	500
ROTATING BEACON	TRAILS	
	TREELINE	
VASI		

DEVIATION FROM STANDARD

ITEM	STANDARD	EXISTING	ULTIMATE
BUILDINGS WITHIN BRL	NONE	19+	NONE
RUNWAY SAFETY AREA LENGTH	6200'	5400'	6600'
RUNWAY SAFETY AREA WIDTH	300'	250'	400'
PART 77- PENETRATIONS	SEE SHEET 6		
RUNWAY OFA PENETRATION	NONE	BLDGS,TANKS,AND POLES SEE SHEET 2	NONE
(ROADS & TREES)	0	10'±	0
(BUILDINGS)	0	18'±	0



DESIGN
DRAWN
CHECKED

BY	DATE	REVISIONS
	12/6/95	FAA APPROVED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION
APPROVED Daniel D. Urbach DATE 11-28-95
DANIEL D. URBACH, P.E. CHIEF AVIATION DESIGN GROUP

FAA, ALASKA REGION, AIRPORTS DIVISION CONDITIONAL APPROVAL
JAMES W. LOMEN DATE 12/6/95

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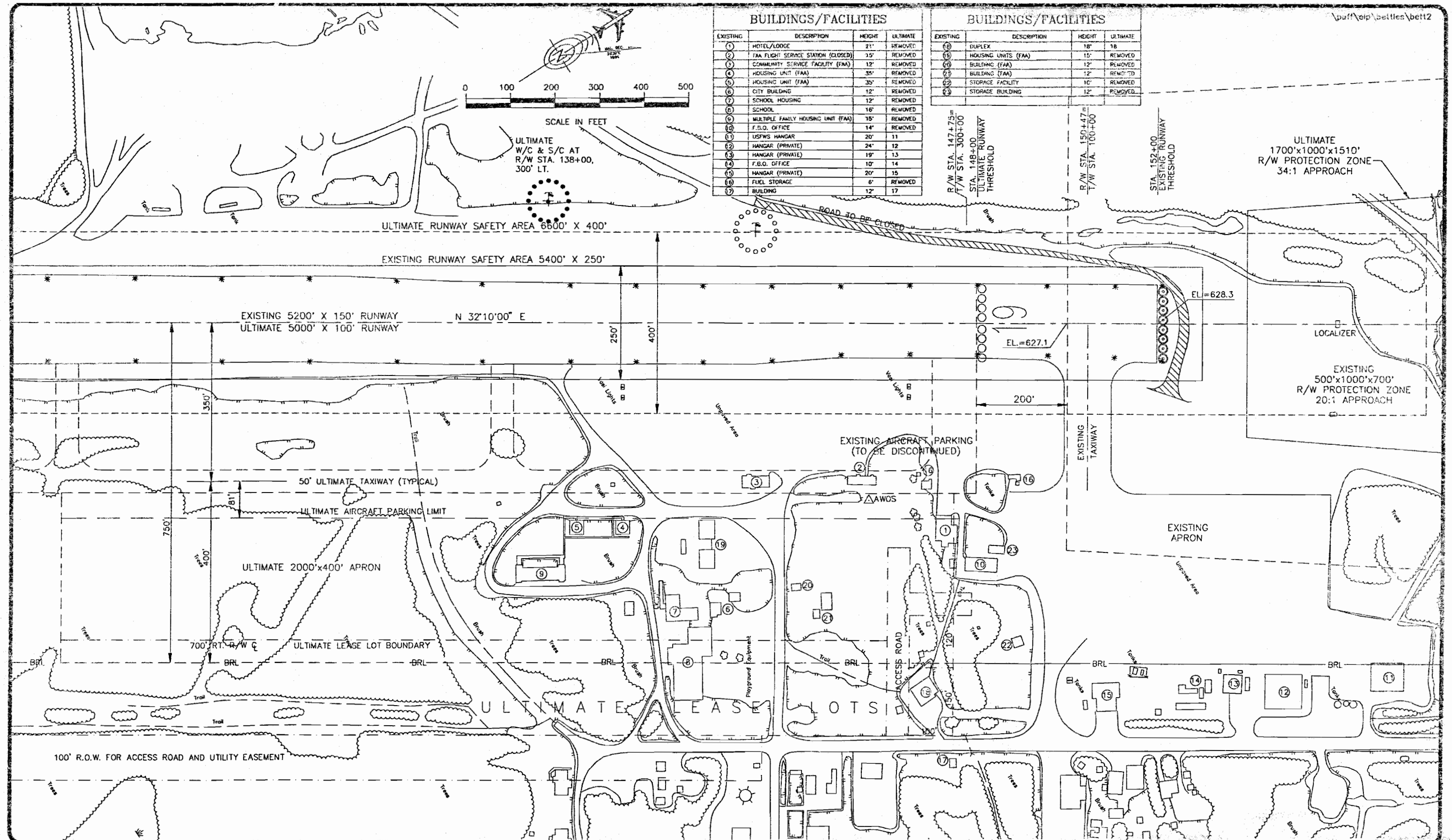
BETTLES AIRPORT
AIRPORT LAYOUT PLAN

SHEET 1 OF 7



BUILDINGS/FACILITIES

EXISTING	DESCRIPTION	HEIGHT	ULTIMATE
1	HOTEL/LODGE	21'	REMOVED
2	FAA FLIGHT SERVICE STATION (CLOSED)	15'	REMOVED
3	COMMUNITY SERVICE FACILITY (FAA)	12'	REMOVED
4	HOUSING UNIT (FAA)	35'	REMOVED
5	HOUSING UNIT (FAA)	35'	REMOVED
6	CITY BUILDING	12'	REMOVED
7	SCHOOL HOUSING	12'	REMOVED
8	SCHOOL	16'	REMOVED
9	MULTIPLE FAMILY HOUSING UNIT (FAA)	15'	REMOVED
10	F.B.O. OFFICE	14'	REMOVED
11	USFWS HANGAR	20'	11
12	HANGAR (PRIVATE)	24'	12
13	HANGAR (PRIVATE)	19'	13
14	F.B.O. OFFICE	10'	14
15	HANGAR (PRIVATE)	20'	15
16	FUEL STORAGE	6'	REMOVED
17	BUILDING	12'	17

BUILDINGS/FACILITIES

EXISTING	DESCRIPTION	HEIGHT	ULTIMATE
18	DUPLEX	18'	18
19	HOUSING UNITS (FAA)	15'	REMOVED
20	BUILDING (FAA)	12'	REMOVED
21	BUILDING (FAA)	12'	REMOVED
22	STORAGE FACILITY	10'	REMOVED
23	STORAGE BUILDING	12'	REMOVED

DESIGN
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	12/6/95	FAA APPROVED

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BETTLES AIRPORT
TERMINAL AREA PLAN

SHEET 2 OF 7

WINDROSE

WIND ROSE DATA

DESIGN GROUP I: 12 MPH CROSSWIND COVERAGE 97.2%

SEASONAL CROSSWIND COVERAGE (JUNE – SEPT.) 96.7%

SOURCE:
U.A.A. CLIMATE CENTER
NATIONAL WEATHER SERVICE
PERIOD:
JAN. 1, 1945 – DEC 31, 1989

DATA COLLECTED FROM THE BETTLES AIRPORT AWOS.

NO THRESHOLD SITING SURFACE PENETRATIONS.
NO OFZ PENETRATIONS.

WATERLANE DATA

	17–35	17–35
	EXISTING	ULTIMATE
DESIGN GROUP I % WIND COVERAGE	96.7	SAME
WATERLANE BEARING	N13°31'47.64"W	SAME
APPROACH SURFACES	20:1	SAME
VISIBILITY MINIMUMS	≥ 1 MILE	SAME
WATERLANE LIGHTING	NONE	NONE
WATERLANE MARKING	NONE	THRESHOLD BUOYS
VISUAL AIDS	NONE	NONE
NAVIAGTION AIDS	NONE	NONE
W/L DIMENSIONS	3400' X 200'	4600' X 200'
OFA DIMENSIONS	3380' X 250'	5080' X 250'
OFZ	3800' X 120'	5000' X 120'

AIRPORT DATA

		EXISTING	ULTIMATE
WATER SURFACE ELEVATION (MSL) NAVD 88		630	SAME
AIRPORT REFERENCE CODE		A–I*	SAME
MEAN TEMP. HOTTEST MONTH (JULY)		69.0°F	SAME
AIRPORT REFERENCE POINT (ARP)	LAT.	66°53'57.31"N	
STA. 27+50	LONG.	151°28'17.59"W	
THRESHOLD 14 STA. 2+50	LAT.	66°54'12.74"N	66°54'19.31"N
	LONG.	151°28'30.91"W	151°28'31.08"W
THRESHOLD 32 STA. 52+50	LAT.	66°53'40.21"N	66°53'35.30"N
	LONG.	151°28'10.99"W	151°28'04.12"W
AIRPORT LIGHTING		NONE	SAME
AIRPORT & TERMINAL NAVAIDS		AWOS	SAME

HORIZONTAL DATUM: NAD 83 *EXCLUSIVELY

LEGEND

PROPERTY LINE	
FLOAT PLANE DEVELOPMENT	
RUNWAY PROTECTION ZONE	
BUILDING RESTRICTION LINE	B.R.L.
VEGETATION LINE	
AIRPORT REFERENCE POINT (ARP)	
UNLIGHTED WIND CONE	

DESIGN
DRAWN
CHECKED

BY	DATE	REVISIONS
		8/29/01 FAA APPROVED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION

APPROVED /s Patricia D. Miller DATE 8/29/01
PATRICIA D. MILLER, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN APPROVED BY LETTER DATED: 8/29/01
Barbara J. Johnson
AIRPORTS DIVISION, ALASKA REGION, AAL-620
AIRSPACE REVIEW #01AAL-049NRA

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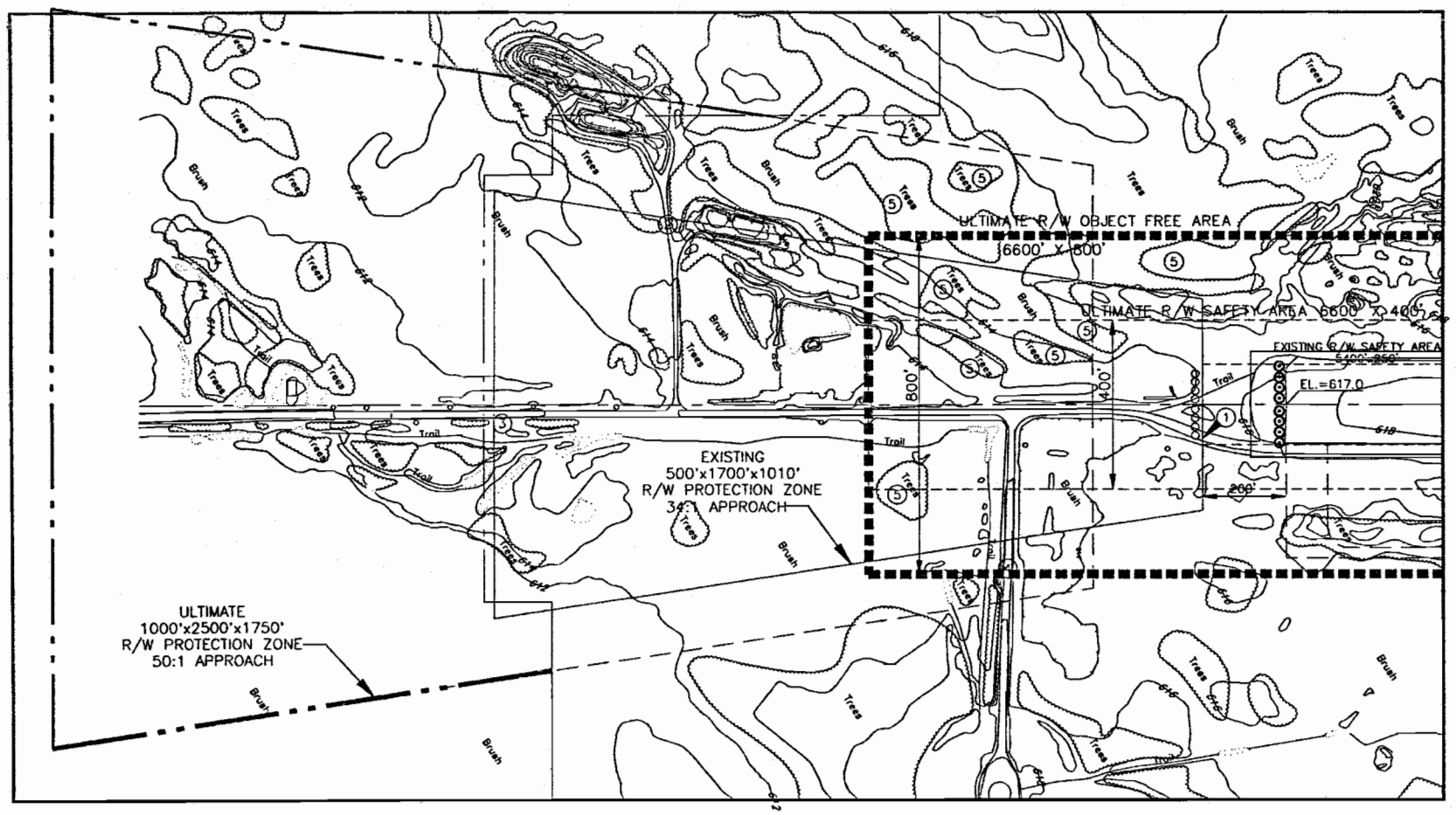
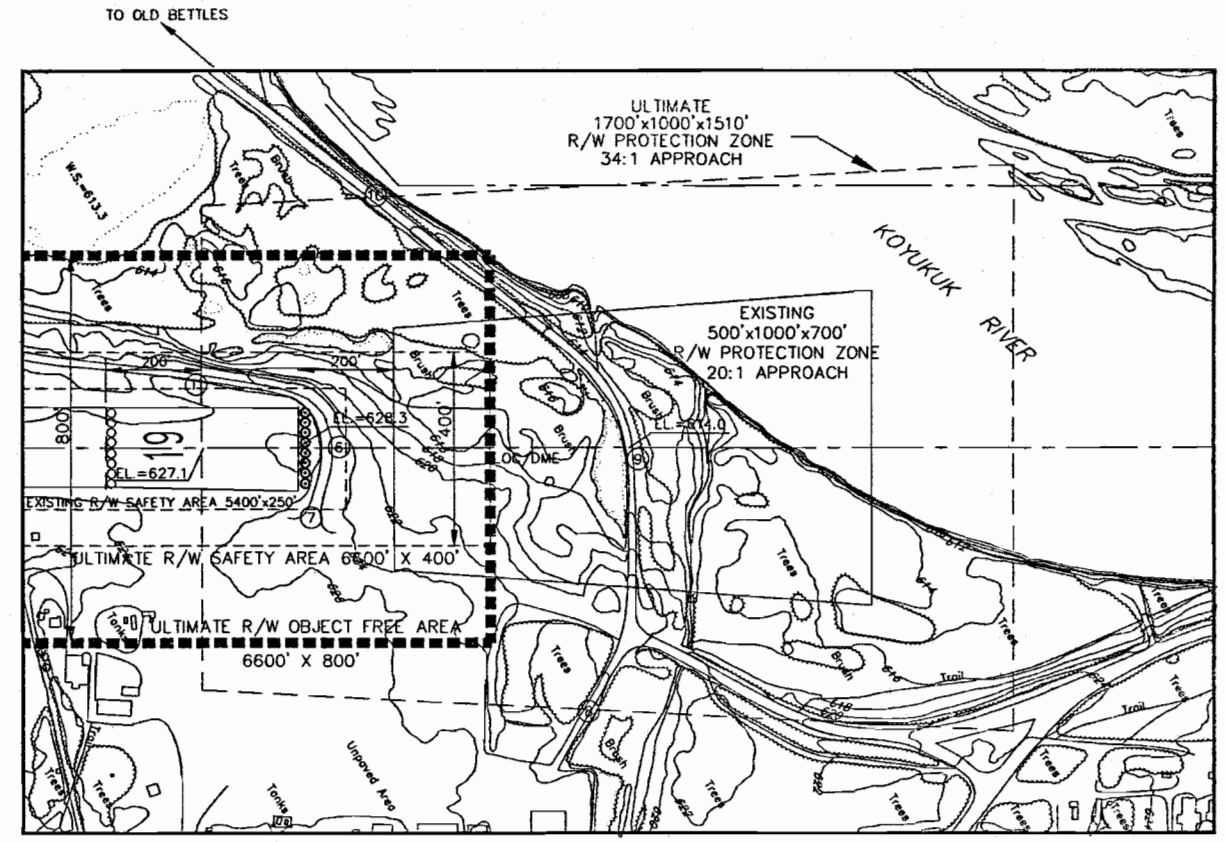
BETTLES AIRPORT

VOR LAKE WATERLANE

SHEET 3 OF 7



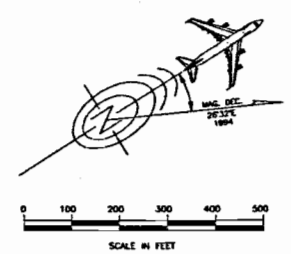
R/W 01 PROTECTION ZONE PLAN VIEW



R/W 19 PROTECTION ZONE PLAN VIEW

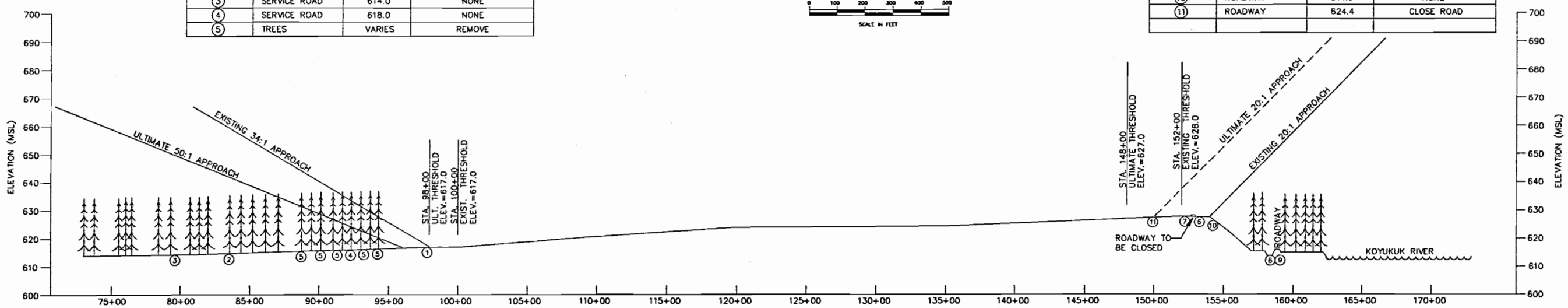
R/W 01 PROTECTION ZONE OBSTRUCTION TABLE

OBSTRUCTION NO.	DESCRIPTION	ELEVATION (MSL)	RECOMMENDATION
1	SERVICE ROAD	615.8	NONE
2	SERVICE ROAD	613.9	NONE
3	SERVICE ROAD	614.0	NONE
4	SERVICE ROAD	618.0	NONE
5	TREES	VARIES	REMOVE



R/W 19 PROTECTION ZONE OBSTRUCTION TABLE

OBSTRUCTION NO.	DESCRIPTION	ELEVATION (MSL)	RECOMMENDATION
6	ROADWAY	624.8	CLOSE ROAD
7	ROADWAY	624.9	CLOSE ROAD
8	ROADWAY	621.5	NONE
9	ROADWAY	614.0	NONE
10	ROADWAY	614.0	NONE
11	ROADWAY	624.4	CLOSE ROAD



RUNWAY 01–19 PROFILE

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BY	DATE	REVISIONS
	12/6/95	FAA APPROVED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION
APPROVED Daniel D. Urbach DATE 11-28-95
DANIEL D. URBACH, P.E. CHIEF AVIATION DESIGN GROUP

FAA, ALASKA REGION, AIRPORTS DIVISION CONDITIONAL APPROVAL
JAMES W. LOMEN DATE 12/6/95

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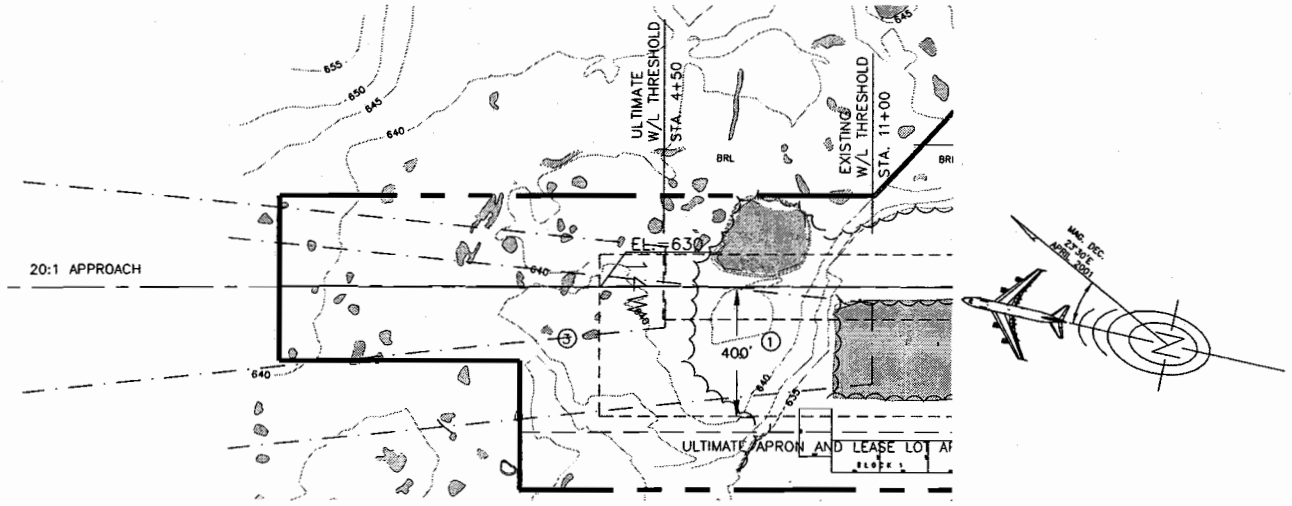
BETTLES AIRPORT

R/W 01–19 PROTECTION ZONES

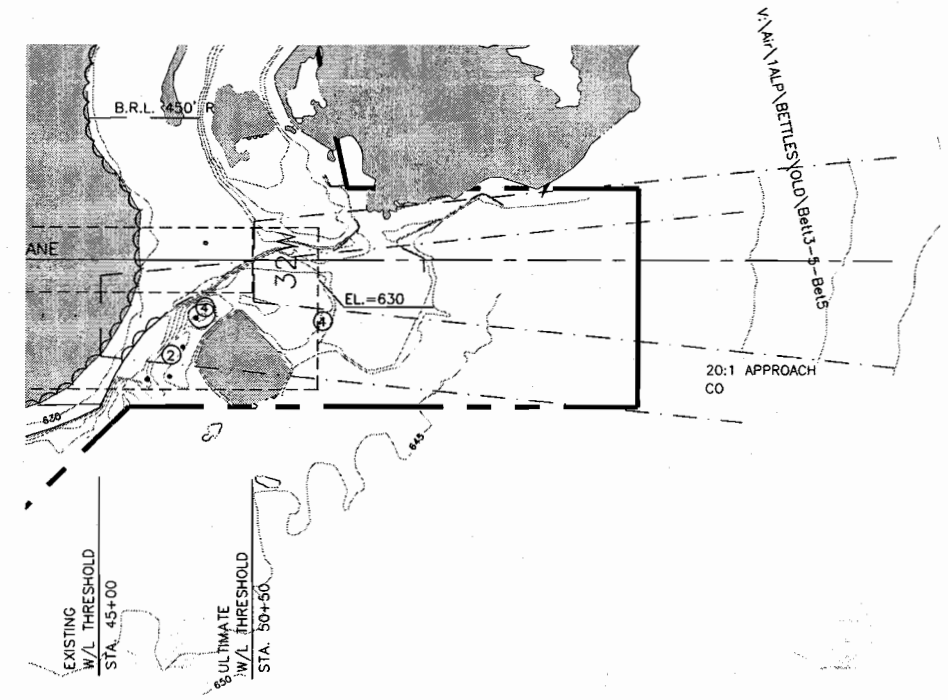
SHEET 4 OF 7



WATERLANE 14W INNER APPROACH PLAN

0 300 600 900 1200 1500

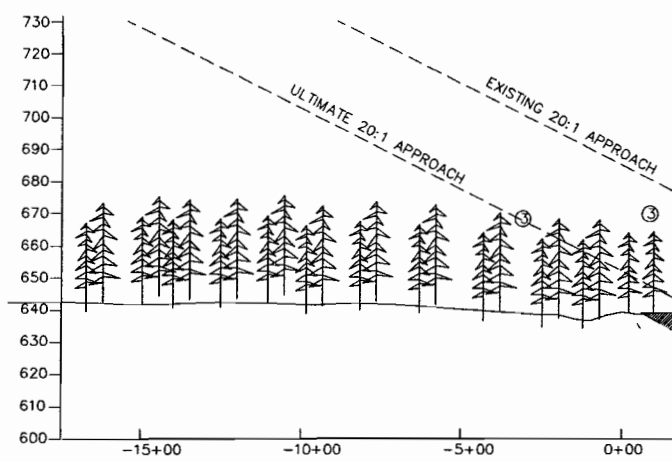
SCALE 1"=300'



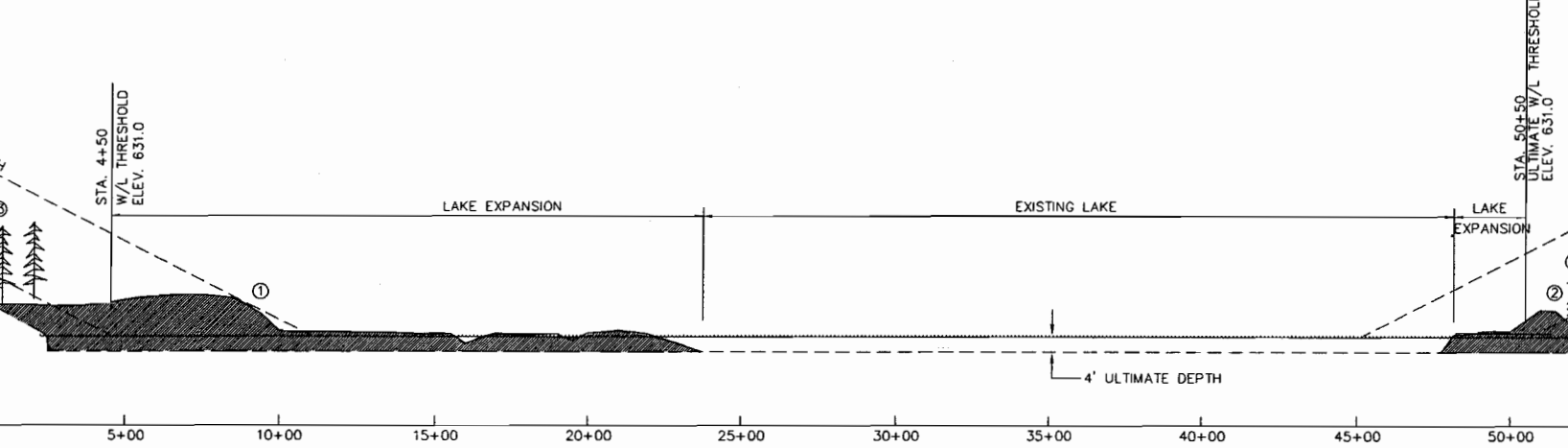
WATERLANE 32W INNER APPROACH PLAN

S.E. PROTECTION ZONE OBSTRUCTION TABLE				
OBSTRUCTION NO.	DESCRIPTION	ELEVATION (MSL)	OBSTRUCTION	DISPOSITION
1	TERRAIN PENETRATION	630+	HILL	REMOVE
3	APPROACH PENETRATION	660+	26' TREES	REMOVE

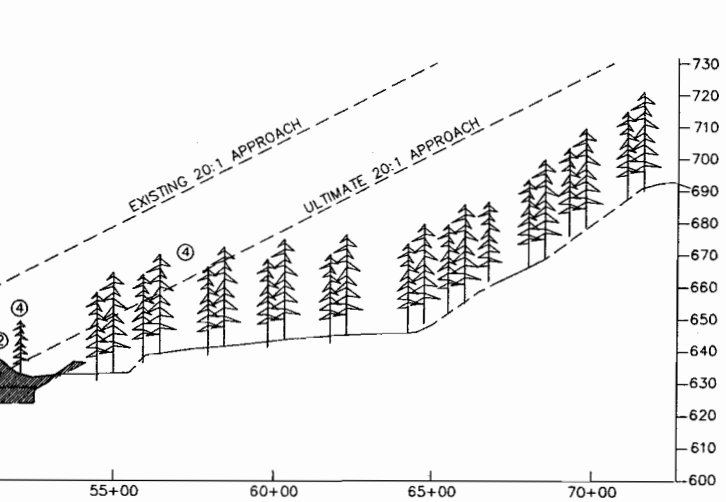
N.W. PROTECTION ZONE OBSTRUCTION TABLE				
OBSTRUCTION NO.	DESCRIPTION	ELEVATION (MSL)	OBSTRUCTION	DISPOSITION
2	TERRAIN PENETRATION	630+	HILL	REMOVE
4	APPROACH PENETRATION	665	28' TREES	REMOVE



WATERLANE 14W INNER APPROACH PROFILE



VOR LAKE WATERLANE ULTIMATE PROFILE



WATERLANE 32W INNER APPROACH PROFILE

DESIGN

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BY	DATE	REVISIONS
		8/29/01 FAA APPROVED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION

APPROVED /s Patricia D. Miller DATE 8/29/01
PATRICIA D. MILLER, P.E. DESIGN GROUP CHIEF

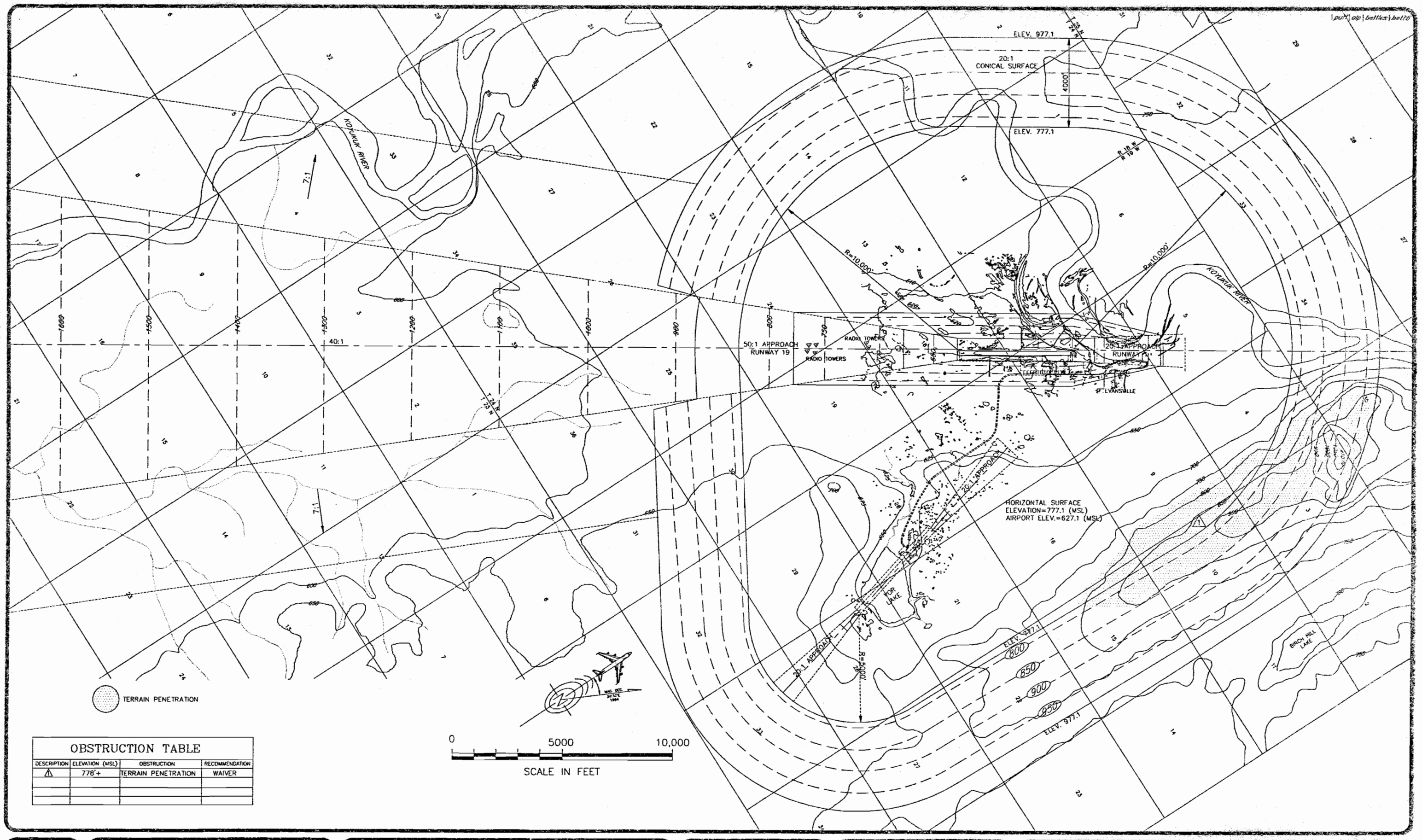
AIRPORT LAYOUT PLAN APPROVED BY LETTER DATED: 8/29/01
Barbara J. Johnson
AIRPORTS DIVISION, ALASKA REGION, AAL-620
AIRSPACE REVIEW #01AAL-049NRA

THIS DRAWING WAS PREPARED FROM BATHYMETRIC SURVEY DATED APRIL 1994, AERIAL PHOTOGRAPHY DATED 5-27-93, AND SURVEY DATED JULY 2000.

BETTLES AIRPORT

INNER PORTION OF THE APPROACH SURFACES

SHEET 5 OF 7



OBSTRUCTION TABLE

DESCRIPTION	ELEVATION (MSL)	OBSTRUCTION	RECOMMENDATION
△1	778'+	TERRAIN PENETRATION	WAIVER

DESIGN

DRAWN

CHECKED

BY	DATE	REVISIONS
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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION

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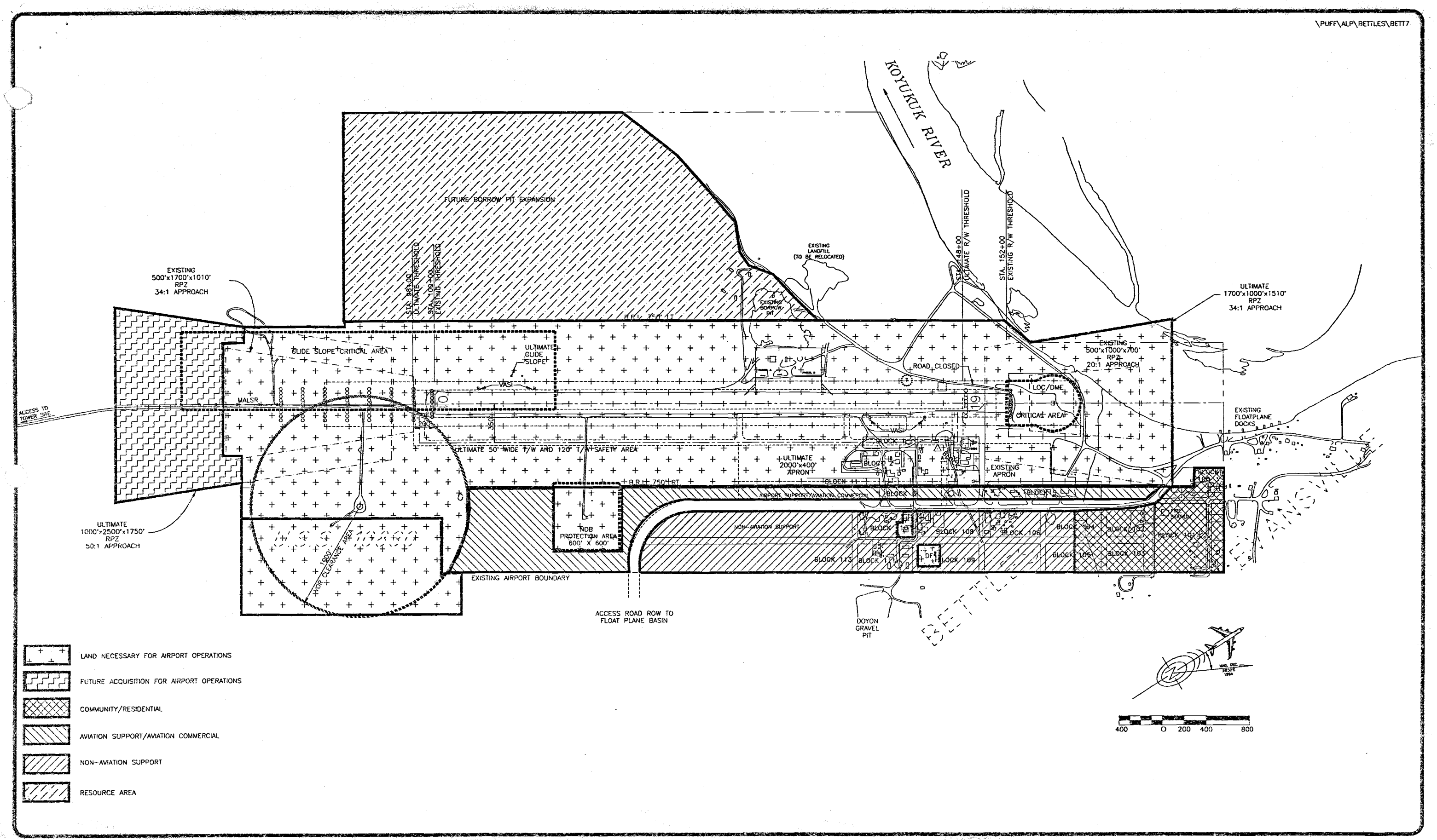
BETTLES AIRPORT

AIRSPACE

SHEET 6 OF 7

\PUFF\ALP\BETTLES\BETT7



DESIGN CML
DRAWN CAT
CHECKED CML

BY	DATE	REVISIONS
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BETTLES AIRPORT
LAND USE PLAN

SHEET 7 OF 7