



U.S. Department
of Transportation

Alaskan Region

222 W. 7th Avenue #14
Anchorage, Alaska
99513-7587

FILE COPY

**Federal Aviation
Administration**

July 22, 2011

Butch Douthit, P.E.
Design Section Chief
Central Region Department of Transportation
and Public Facilities, State of Alaska
P.O. Box 196900
Anchorage AK 99519

Dear Mr. Douthit:

**Flat Airport
Flat, Alaska
Airport Layout Plan Conditional Approval
2011-AAL-2-NRA**

We have completed our review of the Flat Airport Layout Plan (ALP), and find it acceptable from a planning standpoint.

AKDOT should pursue obstruction removal identified on ALP and identify buildings/structures located in RPZ to determine if there are land use compatibility issues that need to be addressed.

Please attach this letter to the enclosed ALP and retain it in your files for future use.

If you have any questions, please contact me at 271-5445.

Sincerely,

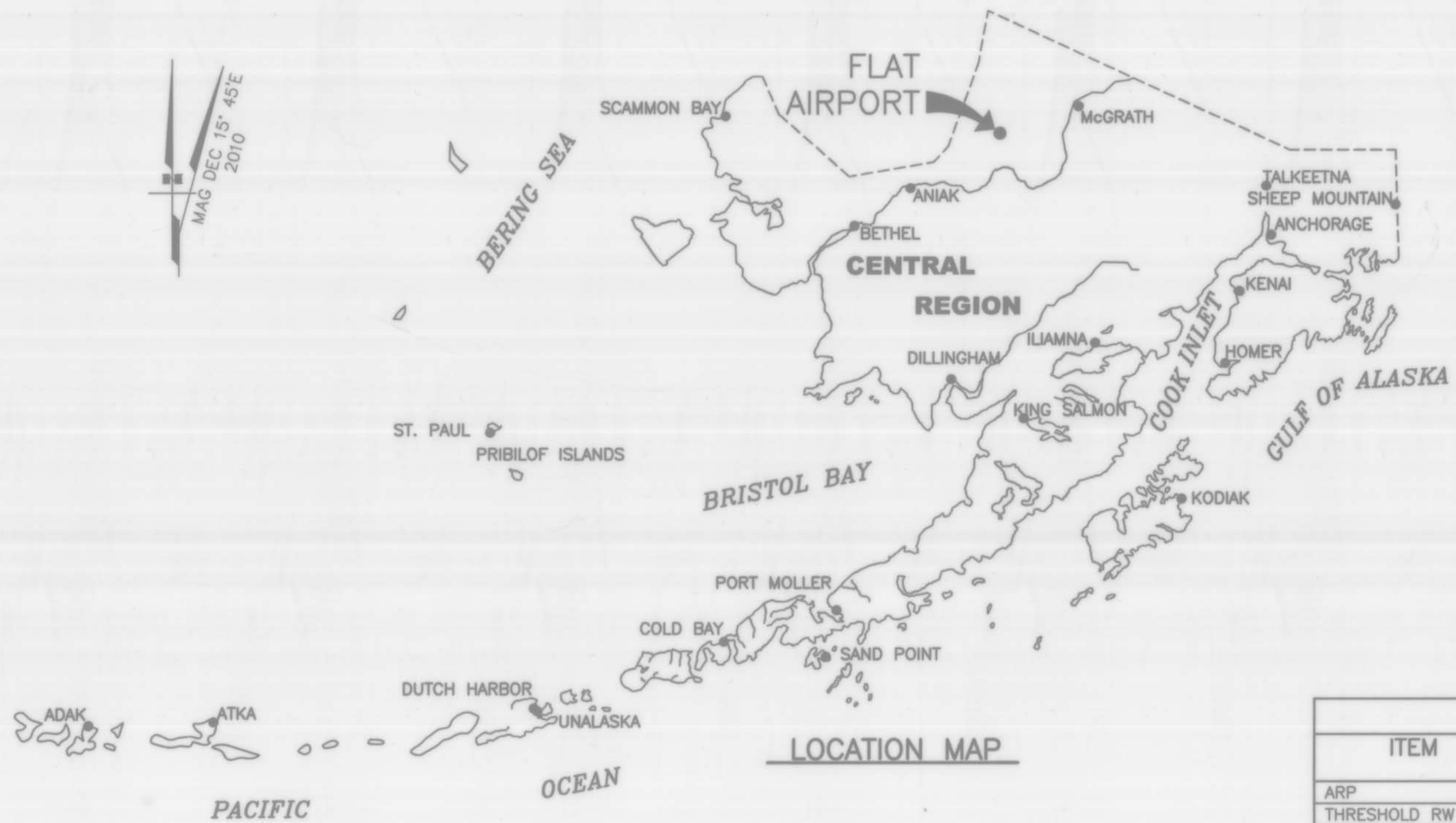
Pat Oien, P.E., Airport Planner
Airports Division

Enclosure: Flat ALP

FILE No.: 232-101-1

Designed By: nlevalyn
 Drawn By: mbauer
 Checked By: bhannon

Date Plotted: 6/15/2011, 9:02 AM
 Layout Name: DATA (1)
 File Name: P:\Projects\099422700\Flat_ALP_V.FLAT_ALP.dwg

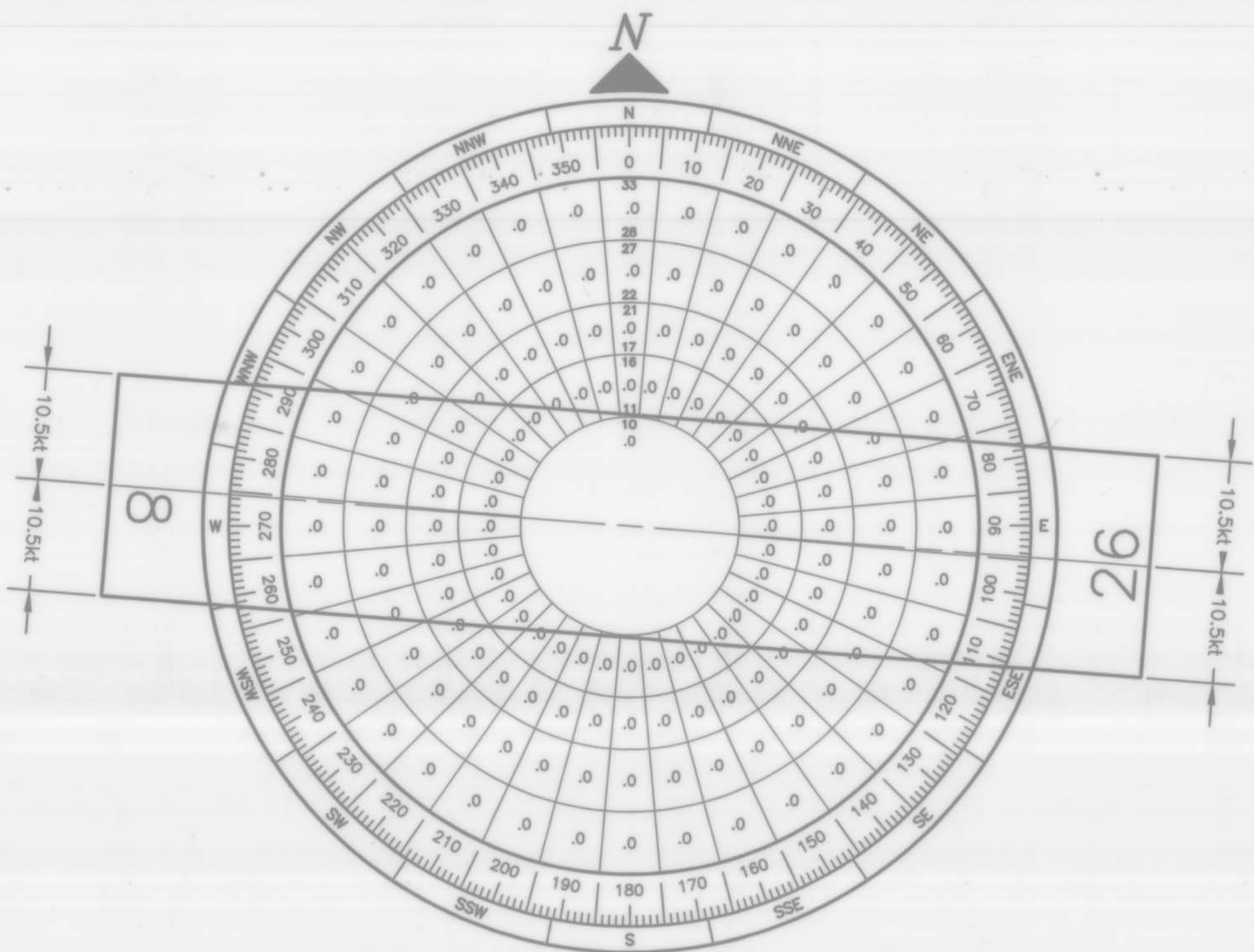


LEGEND		
ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (ARP)		
ANTENNA		
BLUFF		
BUILDINGS		
BUILDING RESTRICTION LINE (BRL)		
FENCE		
PAPI		
PROPERTY LINE		
RAIL		
ROADWAYS		
ROTATING BEACON		
SHORELINE		
SURVEY MONUMENT		
THRESHOLD MARKERS/LIGHTS		
TOPOGRAPHIC CONTOURS		
TREE (LARGE SINGLE)		
TREELINE		
VASI		
WIND CONE		
WIND CONE AND SEGMENTED CIRCLE		

AIRPORT DATA		
ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	NONE	
NATIONAL AIRPORT IDENTIFIER	FLT	
FAA SITE NUMBER	50230.A	
AIRPORT ELEVATION NAVD88	343.0'	
AIRPORT REFERENCE CODE	A-1	
MEAN MAX. TEMPERATURE, HOTTEST MONTH	70°F, JULY	
AIRPORT AND TERMINAL NAVIGATION AIDS	NONE	
TAXIWAY LIGHTING/MARKING	NONE	
OBSTRUCTION SURVEY SOURCE & TYPE	NONE	
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE	15°45'E / 2010	0°16'(W) / YEAR

GEOGRAPHIC COORDINATES TABLE				
ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	ULTIMATE LATITUDE	ULTIMATE LONGITUDE
ARP	62°27'10"N	157°59'12"W		
THRESHOLD RW 8	62°27'11.59"N	157°59'55.15"W		
THRESHOLD RW 26	62°27'08.43"N	157°58'29.43"W		

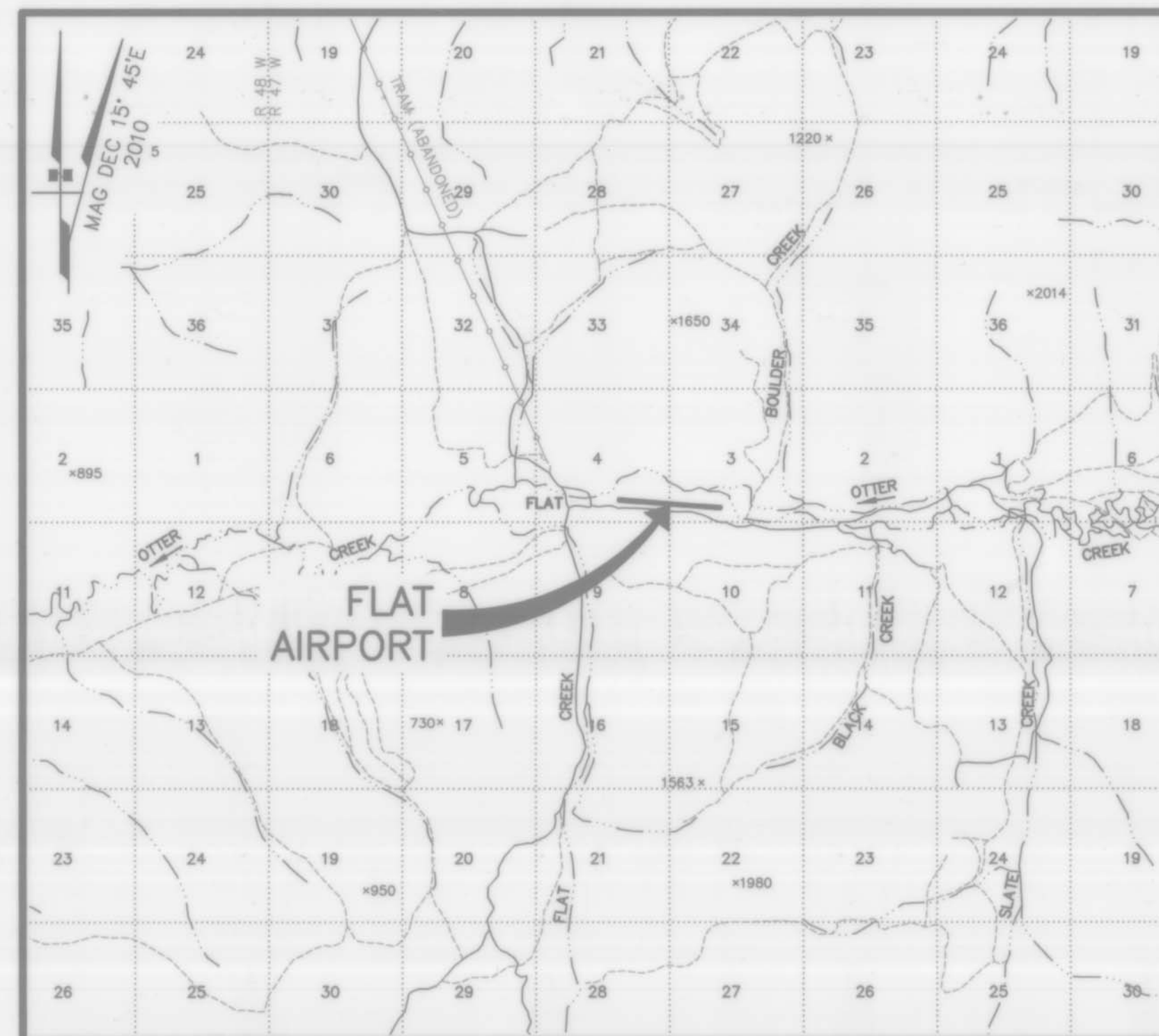
RUNWAY 8/26 DATA			
ITEM	EXISTING	NEAR-TERM	ULTIMATE
RUNWAY TYPE UTILITY OR OTHER THAN UTILITY	UTILITY		
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	V/V		
APPROACH SURFACES	20:1/ 20:1		
VISIBILITY MINIMUM	1SM		
RUNWAY SURFACE	GRAVEL		
PAVEMENT STRENGTH SW,DW,DTW,DDTW x1000lbs	N/A		
AIRCRAFT APPROACH CATEGORY	A		
AIRPLANE DESIGN GROUP	I		
MEAN GEODETIC BEARING	N85°27'17.82"W		
EFFECTIVE GRADE	0.49%		
TOUCHDOWN ELEVATION NAVD88 (ESTIMATED)	338.0' / 343.0'		
RUNWAY DIMENSIONS	90' x 4045'		
RUNWAY SAFETY AREA (RSA) DIMENSIONS	120' x 4525'		
LENGTH BEYOND R/W END	240'/240'		
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	250' x 450' x 1000'		
RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS	250' x 4525'		
LENGTH BEYOND R/W END OR STOPWAY	240'/240'		
RUNWAY OBSTACLE FREE ZONE (OFZ) DIMENSIONS	250' x 4445'		
RUNWAY LIGHTING	NONE		
RUNWAY MARKING TYPE	NONE		
RUNWAY VISUAL APPROACH AIDS	NONE		



NOTE: WIND DATA NOT AVAILABLE.

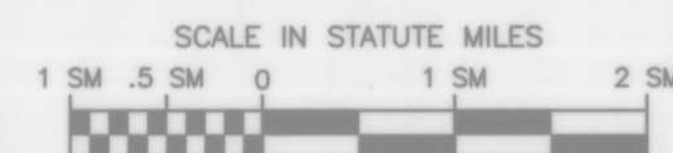
WIND DATA TABLE				
RUNWAY	10.5 kt	13 kt	16 kt	20 kt
8/26				

SOURCE: NONE
 PERIOD: NONE



VICINITY MAP

SEC. 03, 04, T 27 N, R 47 W,
 SEWARD MERIDIAN
 U.S.G.S. IDITAROD (D-4), ALASKA



NOTES:

1. THE INFORMATION SHOWN HEREIN IS BASED ON A FIELD SURVEY PERFORMED BY DOWL HKM ON JUNE 23, 2010.
2. THE HORIZONTAL DATUM IS NAD83(CORS96) (EPOCH:2003.0000) AS DETERMINED BY STATIC GPS OBSERVATIONS USING LEICA DUAL FREQUENCY GPS RECEIVERS AND PROCESSED USING THE NGS OPUS UTILITY.
3. ELEVATIONS ARE NAV88 ORTHOMETRIC HEIGHTS AS DETERMINED BY GPS OBSERVATIONS AND A HIGH RESOLUTION MODEL, GEOID-99.
4. THRESHOLD COORDINATES WERE DETERMINED USING A STATIC GPS NETWORK. THE TOPOGRAPHIC MAPPING IN THE AIRPORT VICINITY WAS DIGITIZED FROM U.S.G.S. IDITAROD (D-4), ALASKA.

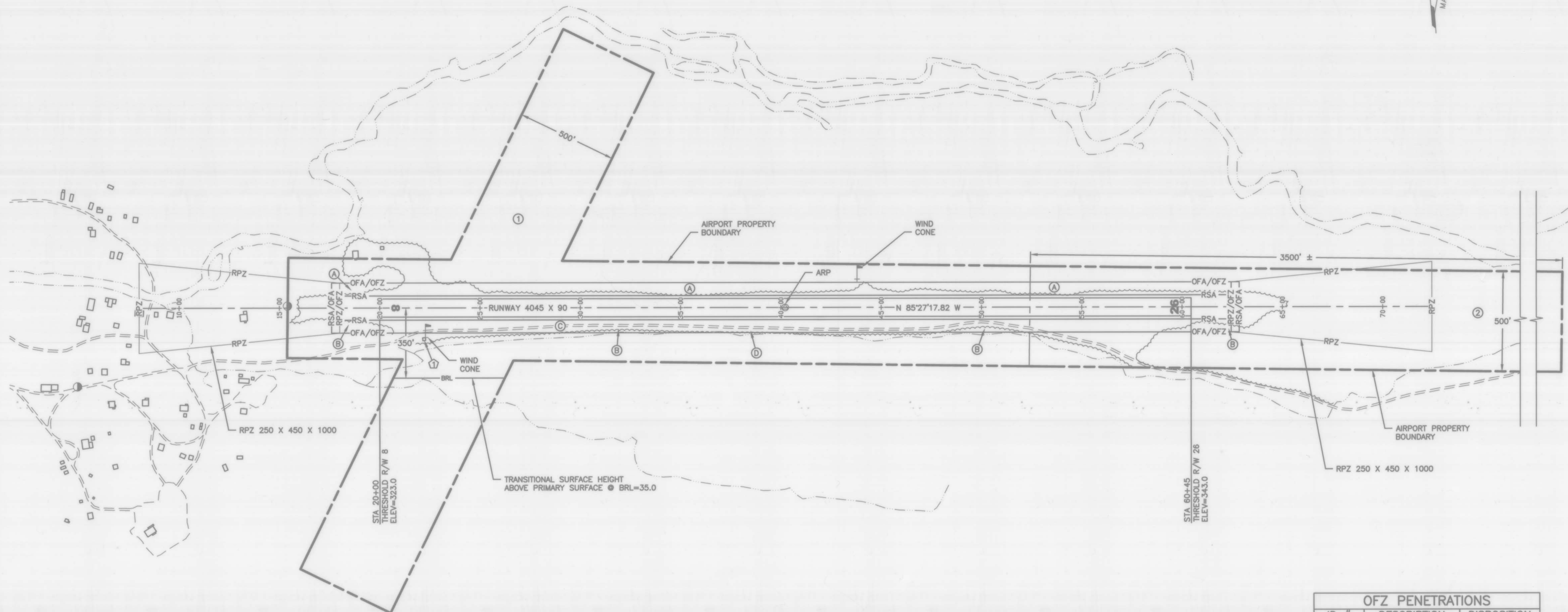
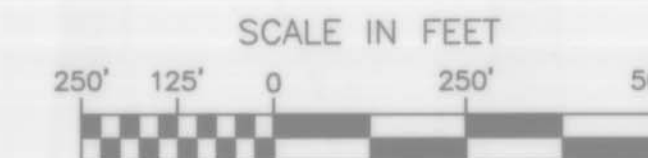
DRAWING INDEX	
SHT #	TITLE
1	DATA
2	EXISTING LAYOUT
3	AIRPORT AIRSPACE

BY DATE	REVISION
APPROVED: <i>K. Kim Rice</i>	DATE: 7/5/2011
K. KIM RICE, P.E. PRECONSTRUCTION ENGINEER	
RECOMMENDED: <i>Harvey M. Doothit</i>	DATE: 7/5/2011
HARVEY M. DOOTHIT, P.E. DESIGN SECTION CHIEF	

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	
FLAT AIRPORT FLAT, ALASKA AIRPORT LAYOUT PLAN	
DATE: 6/15/2011	SHEET: 1 OF 3

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7/22/11 FAA AIRSPACE REVIEW NUMBER: 2011-AAL-2-NRA	
DATE: 7-22-11	621

Date Plotted: 6/15/2011, 9:02 AM
 Layout Name: ELAY(2)
 File Name: P:\Projects\059422\00\Fat\ALP\FLAT_ALP.dwg
 Designed By: nllwelym
 Drawn By: hoojinn
 Checked By: bhonson



① MONUMENT LOCATED DURING
 JUNE 23, 2010 SITE VISIT

OFZ PENETRATIONS		
ID #	DESCRIPTION	DISPOSITION
(A)	BRUSH/TREES	REMOVE
(B)	BRUSH/TREES	REMOVE
(C)	ROAD	REMAIN
(D)	WILEY POST MONUMENT	REMAIN

BUILDING DATA TABLE				
ID #	DESCRIPTION	STATION/OFFSET	TOP ELEV (NAVD88)	OBSTRUCT MARKING
1	STORAGE SHED	22+13/149' R	334.0'	NONE

PROPERTY STATUS							
ID #	INTEREST	GRANTOR	GRANTEE	PARCEL SIZE	DATE ACQUIRED	RECORDED DOC NO.	ACQUIRED AIP NO.
①	A.N.S NO. 142		STATE OF ALASKA, DOT/PF	70.56± ac	06-26-40		
②	Q.C.D.-SEC 45 OMNIBUS ACT		STATE OF ALASKA, DOT/PF	40.17± ac	06-30-59		

NOTE: PROPERTY BOUNDARY AND TRACT LINES ARE BASED ON 1969 PROPERTY PLAN.

NOTE:
1. CONTOUR DATA NOT AVAILABLE.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

FLAT AIRPORT
 FLAT, ALASKA
 AIRPORT LAYOUT PLAN
 EXISTING LAYOUT

DATE:
 6/15/2011
 SHEET:
 2 OF 3

Date Plotted: 6/15/2011, 9:02 AM
 Layout Name: P77 (3)
 File Name: P:\Projects\059422700\Flat\ALP\FLAT_ALP.dwg
 Designated By: nilewallyn
 Drawn By: boguinin
 Checked By: bhannon

RUNWAY 8/26

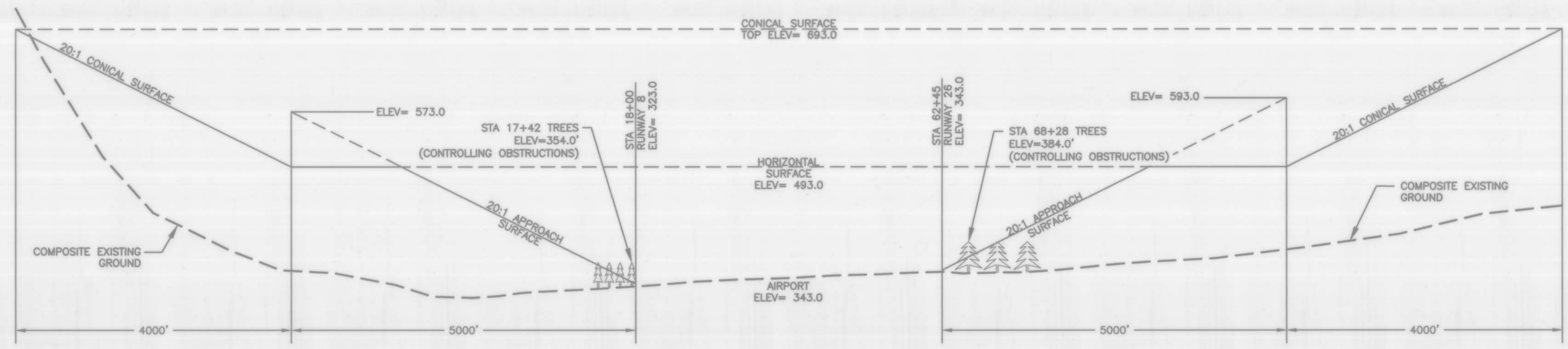
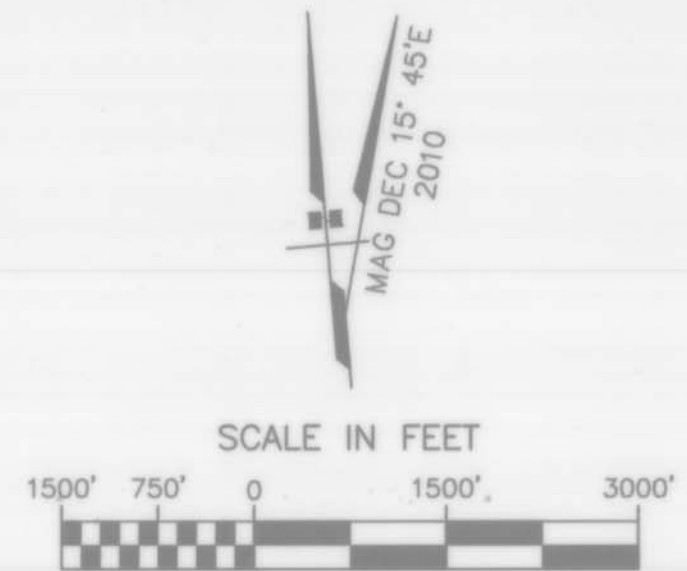
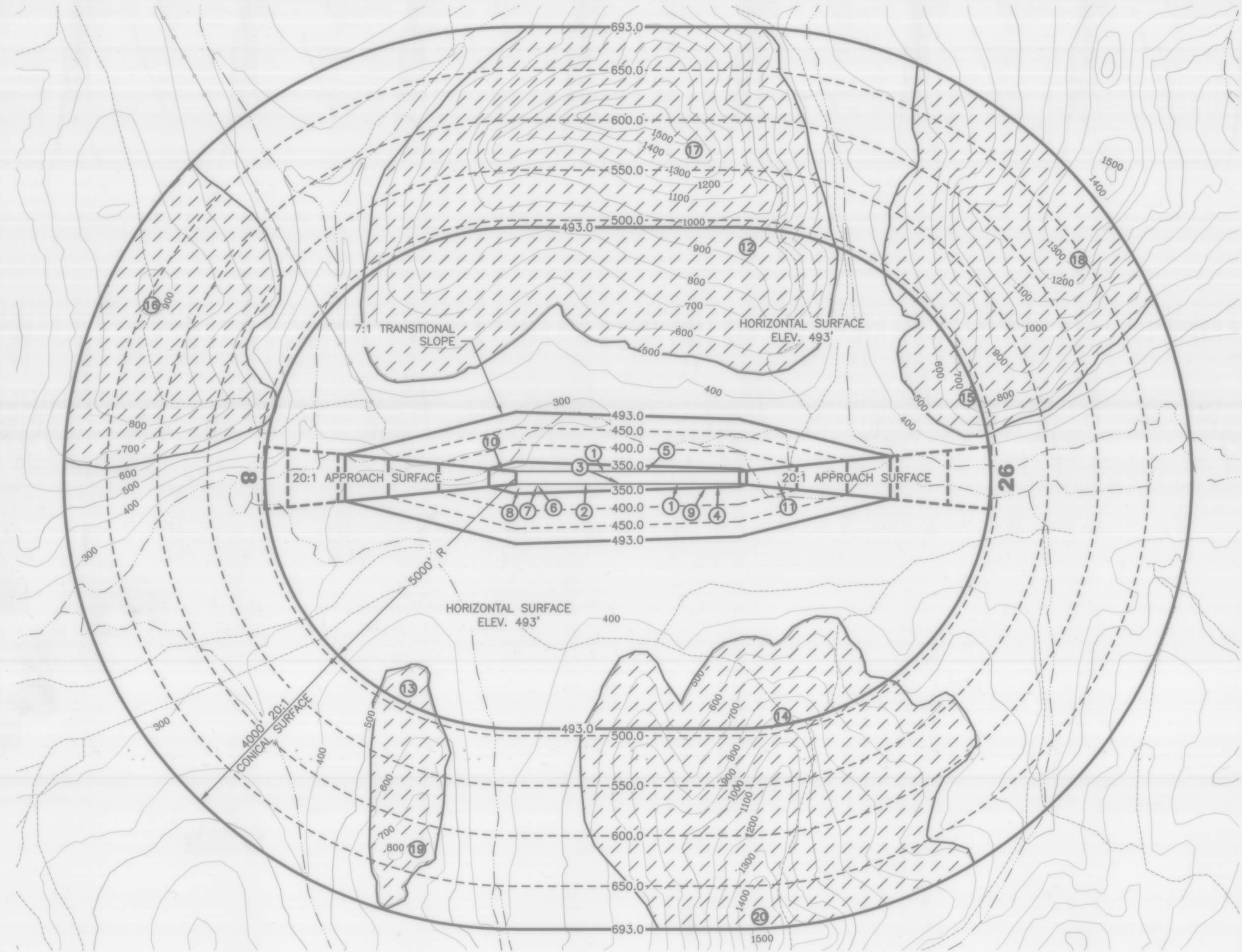
PART 77 SURFACE OBSTRUCTIONS (OUTER PORTION)

ID #	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATION	DISPOSITION	STAGE TO CORRECT
①	BRUSH AND TREES	*60 TO 125 R/L	328 TO 383	PRIMARY	323 TO 343	5 TO 40	REMOVE	NEAR-TERM
②	ROAD	21+63 TO 53+40/67 R	338 TO 355	PRIMARY	323 TO 340	15	REMAIN	
③	WILEY POST MONUMENT	38+50/116 R	347	PRIMARY	332	15	REMAIN	
④	3 FUEL STORAGE TANKS	58+06/140 R	350	TRANSITIONAL	345	5	REMOVE	NEAR-TERM
⑤	WIND CONE	43+80/130 L	361	TRANSITIONAL	337	24	REMAIN	
⑥	WIND CONE	22+28/146 R	358	TRANSITIONAL	328	30	REMAIN	
⑦	STORAGE SHED	22+14/146 R	336	TRANSITIONAL	328	8	REMAIN	
⑧	ROAD	18+00 TO 21+80/125 TO 230 R	338	TRANSITIONAL	323-338	0-15	REMAIN	
⑨	ROAD	53+41 TO 57+00/125 TO 230 R	355	TRANSITIONAL	340-355	0-15	REMAIN	
⑩**	TREE	17+42/100 L	354	APPROACH R/W 8	326	28	REMOVE	NEAR-TERM
⑪**	TREE	68+28/70 R	384	APPROACH R/W 26	372	12	REMOVE	NEAR-TERM
⑫***	TERRAIN	64+13/4600 L	900	HORIZONTAL	493	407	REMAIN	
⑬***	TERRAIN	-3+37/4200 R	500	HORIZONTAL	493	7	REMAIN	
⑭***	TERRAIN	71+00/4750 R	900	HORIZONTAL	493	407	REMAIN	
⑮***	TERRAIN	107+85/1600 L	800	HORIZONTAL	493	307	REMAIN	
⑯***	TERRAIN	-54+40/3450 L	900	CONICAL	630	270	REMAIN	
⑰***	TERRAIN	53+50/6550 L	925	CONICAL	575	350	REMAIN	
⑱***	TERRAIN	130+00/4350 L	1300	CONICAL	640	660	REMAIN	
⑲***	TERRAIN	1+60/7400 R	800	CONICAL	630	170	REMAIN	
⑳***	TERRAIN	66+50/8750 R	1490	CONICAL	693	797	REMAIN	

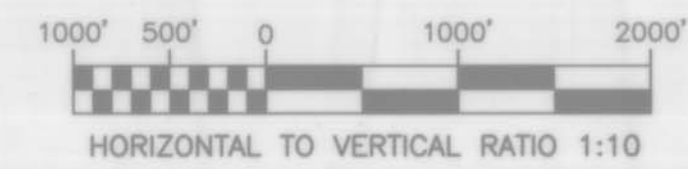
* BOTH SIDES, ALMOST ENTIRE LENGTH OF PRIMARY SURFACE.
 ** HIGHEST MEASURED FEATURE IN A VEGETATED AREA.
 *** HIGHEST FEATURE IN A LARGE AREA OF TERRAIN PENETRATION. REFER TO HATCHED AREAS ON MAP.

NOTES

- AIRPORT ELEVATION IS 343.0'.
- PRIMARY SURFACE WIDTH IS 250'.
- TOPO CONTOURS ARE SHOWN IN FEET. BASEMAP DATA FROM USGS IDITAROD (D-4).
- A RANGEFINDER WITH BUILT-IN INCLINOMETER WAS USED TO IDENTIFY OBSTRUCTIONS CLOSE TO THE RUNWAY IN THE PRIMARY AND TRANSITIONAL SURFACES.
- APPROACH SURFACES ARE 20:1, BEGINNING 200' BEYOND THE THRESHOLDS.
- THE RUNWAY 8 CONTROLLING OBSTRUCTION IS A GROUP OF TREES AT STA 17+42 100L, ELEVATION IS 31' ABOVE RUNWAY. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 8:1, PER FAA AC 150-5200-35, SECTION 4, DATA ELEMENT 57.
- THE RUNWAY 8 APPROACH END SITING SURFACES DO NOT MEET ANY THRESHOLD SITING CRITERIA BECAUSE OF VEGETATION (BRUSH & TREES) PENETRATIONS AS DEFINED IN FAA AC 150/5300-13, CHG 15, APPENDIX 2, TABLE A2-1.
- THE RUNWAY 26 CONTROLLING OBSTRUCTION IS A TREE AT STA 68+28 70R, ELEVATION IS 41' ABOVE RUNWAY. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 19:1, PER FAA AC 150-5200-35, SECTION 4, DATA ELEMENT 57.
- THE RUNWAY 26 APPROACH END SITING SURFACES DO NOT MEET ANY THRESHOLD SITING CRITERIA BECAUSE OF VEGETATION (BRUSH & TREES) PENETRATIONS. AS DEFINED IN FAA AC 150/5300-13, CHG 15, APPENDIX 2, TABLE A2-1.
- THERE ARE NO KNOWN ORDINANCES SPECIFYING HEIGHT RESTRICTIONS IN FLAT. FLAT IS AN UNINCORPORATED COMMUNITY IN AN UNORGANIZED BOROUGH.
- THERE IS NO LANDFILL, SEWAGE DISPOSAL SITE, OR WASTEWATER LAGOON IN FLAT.



RUNWAY PROFILE



BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

FLAT AIRPORT
 FLAT, ALASKA
 AIRPORT LAYOUT PLAN
 AIRPORT AIRSPACE
 14 CFR, PART 77

DATE: 6/15/2011
 SHEET: 3 OF 3