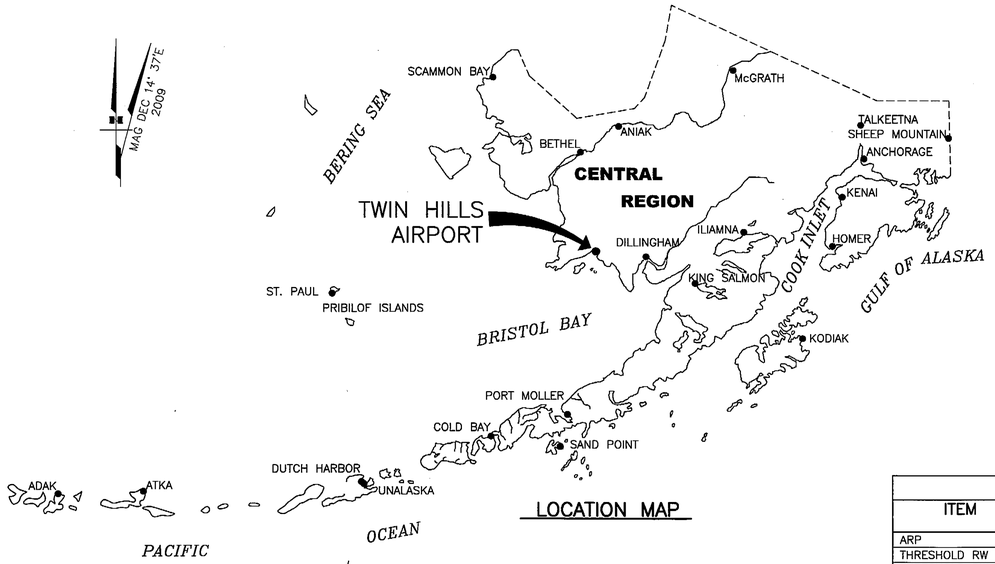
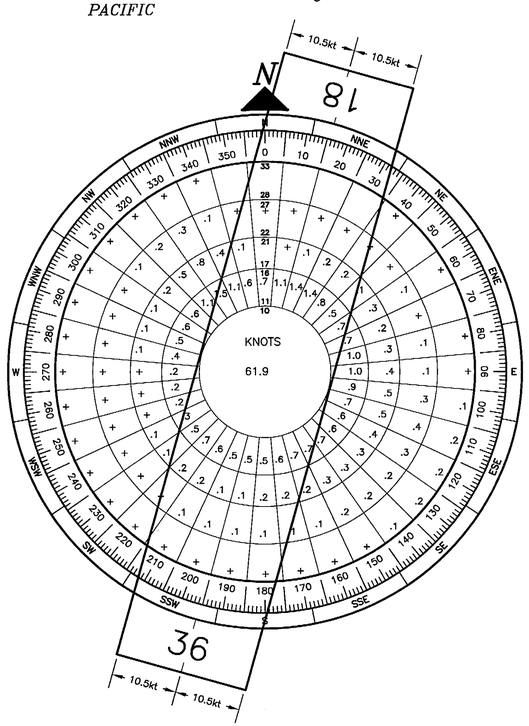


LOCATION MAP



LEGEND

ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (A.R.P.)		
ANTENNA		
BLUFF		
BUILDINGS		
BUILDING RESTRICTION LINE	BRL	BRL
FENCE	—X—X—X—	—X—X—X—
PAPI	■■■■	□□□□
PROPERTY LINE		
REIL		
ROADWAYS		
ROTATING BEACON		
SHORELINE		
SURVEY MONUMENT		
THRESHOLD MARKERS/LIGHTS	●●● ●●●	○○○ ○○○
TOPOGRAPHIC CONTOURS	—100—	—100—
TREE (LARGE SINGLE)		
TREELINE		
VASI	■■	□□
WIND CONE		
WIND CONE AND SEGMENTED CIRCLE		

AIRPORT DATA TABLE

ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	NONE	
NATIONAL AIRPORT IDENTIFIER	A63	
FAA SITE NUMBER	50776.*A	
AIRPORT ELEVATION NAVD88	82'	
AIRPORT REFERENCE CODE	A–I	
MEAN MAX. TEMPERATURE, HOTTEST MONTH	64°F, JULY	
AIRPORT AND TERMINAL NAVIGATION AIDS	BEACON	
TAXIWAY LIGHTING/MARKING	MITL	
OBSTRUCTION SURVEY SOURCE & TYPE	NONE	
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE	14°37' E / 2009	–0°11'(W) / YEAR

GEOGRAPHIC COORDINATES TABLE

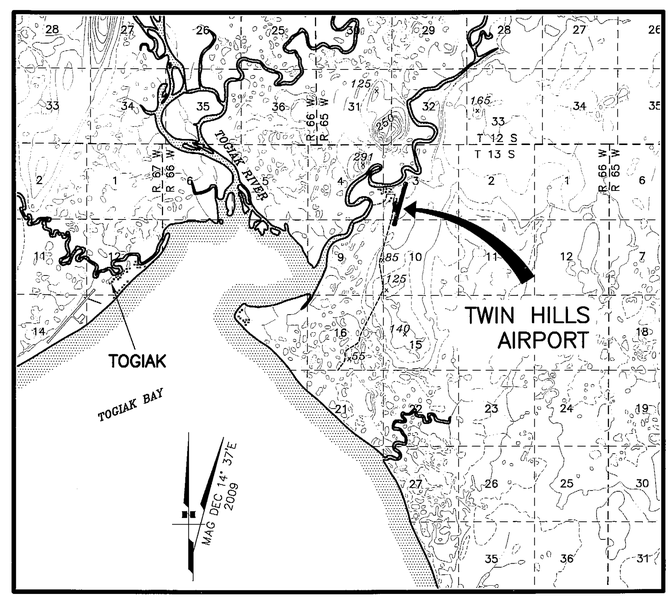
ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	ULTIMATE LATITUDE	ULTIMATE LONGITUDE
ARP	59°04'28.29"N	160°16'30.15"W		
THRESHOLD RW 18	59°04'42.52"N	160°16'22.43"W		
THRESHOLD RW 36	59°04'14.06"N	160°16'37.86"W		

RUNWAY 18/36 DATA TABLE

ITEM	EXISTING	NEAR TERM	ULTIMATE
RUNWAY TYPE UTILITY OR OTHER THAN UTILITY	UTILITY		
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	V		
APPROACH SURFACES	20:1		
VISIBILITY MINIMUM	≥1 SM		
RUNWAY SURFACE	GRAVEL		
PAVEMENT STRENGTH SW,DW,DTW,DDTW x1000lbs	N/A		
AIRCRAFT APPROACH CATEGORY	A		
AIRPLANE DESIGN GROUP	I		
TRUE BEARING	N15°35'42"W		
EFFECTIVE GRADE	1.24%		
TOUCHDOWN ELEVATION NAVD88 (ESTIMATED)	81.5' / 81.5'		
RUNWAY DIMENSIONS	60' x 3000'		
RUNWAY SAFETY AREA (RSA) DIMENSIONS	120' x 3480'		
LENGTH BEYOND R/W END	240' / 240'		
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	250' x 450' x 1000'		
RUNWAY OBJECT FREE AREA (ROFA) DIMENSIONS	250' x 3480'		
LENGTH BEYOND R/W END OR STOPWAY	240' / 240'		
RUNWAY OBSTACLE FREE ZONE (ROFZ) DIMENSIONS	250' x 3400'		
RUNWAY LIGHTING	MIRL		
RUNWAY MARKING TYPE	NONE		
RUNWAY VISUAL APPROACH AIDS	NONE		

NOTES

1. THE INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY DOWL ENGINEERS ON MARCH 10, 2008.
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. CONTROL CORS STATIONS USED FOR THE POSITION SOLUTION WERE TSEA, POTS AND CHI5.
3. THRESHOLD COORDINATES WERE DETERMINED USING A STATIC GPS NETWORK. THE TOPOGRAPHIC MAPPING IN THE AIRPORT VICINITY WAS DIGITIZED FROM USGS QUAD GOODNEWS (A–4).
4. RUNWAY NUMBERS CHANGED FROM 1/19 TO 36/18 DUE TO CHANGES IN MAGNETIC DECLINATION.



VICINITY MAP

SEC. 3, 10, T 13 S, R 66 W,
SEWARD MERIDIAN
U.S.G.S. GOODNEWS (A–4), ALASKA

SCALE IN STATUTE MILES
1 SM .5 SM 0 1 SM 2 SM

WIND DATA TABLE

RUNWAY	10.5 kt	13 kt	16 kt	20 kt
18/36	80.38			

NOTES:
1. THERE IS NO WIND DATA AVAILABLE FOR THE TWIN HILLS AIRPORT. WIND DATA FROM NEARBY TOGIAK AIRPORT WAS USED TO CREATE THIS WIND ROSE.
2. TOGIAK WIND DATA WAS COLLECTED BY ALASKA STATE CLIMATE CENTER FROM 12/31/1991 THROUGH 06/30/1996.

MODIFICATION TO STANDARDS/ NON STANDARD CONDITIONS

DESCRIPTION	STANDARD	EXISTING	ULTIMATE

BY	DATE	REVISION

DRAWING INDEX

SHT #	TITLE
1	AIRPORT DATA SHEET
2	AIRPORT LAYOUT PLAN
3	INNER PORTION OF THE APPROACH SURFACE
4	AIRPORT AIRSPACE, 14 CFR, PART 77
5	PROPERTY MAP

APPROVED: DATE: 3/13/2009
K. KIM RICE, P.E. — PRECONSTRUCTION ENGINEER
RECOMMENDED: DATE: 3/12/2009
HARVEY M. DOUTHIT, P.E. — DESIGN SECTION CHIEF

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/22/2009
FAA AIRSPACE REVIEW NUMBER: 2008-AAL-182-NRA
DATE: 4/21/09
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

TWIN HILLS AIRPORT
TWIN HILLS, ALASKA
AIRPORT LAYOUT PLAN

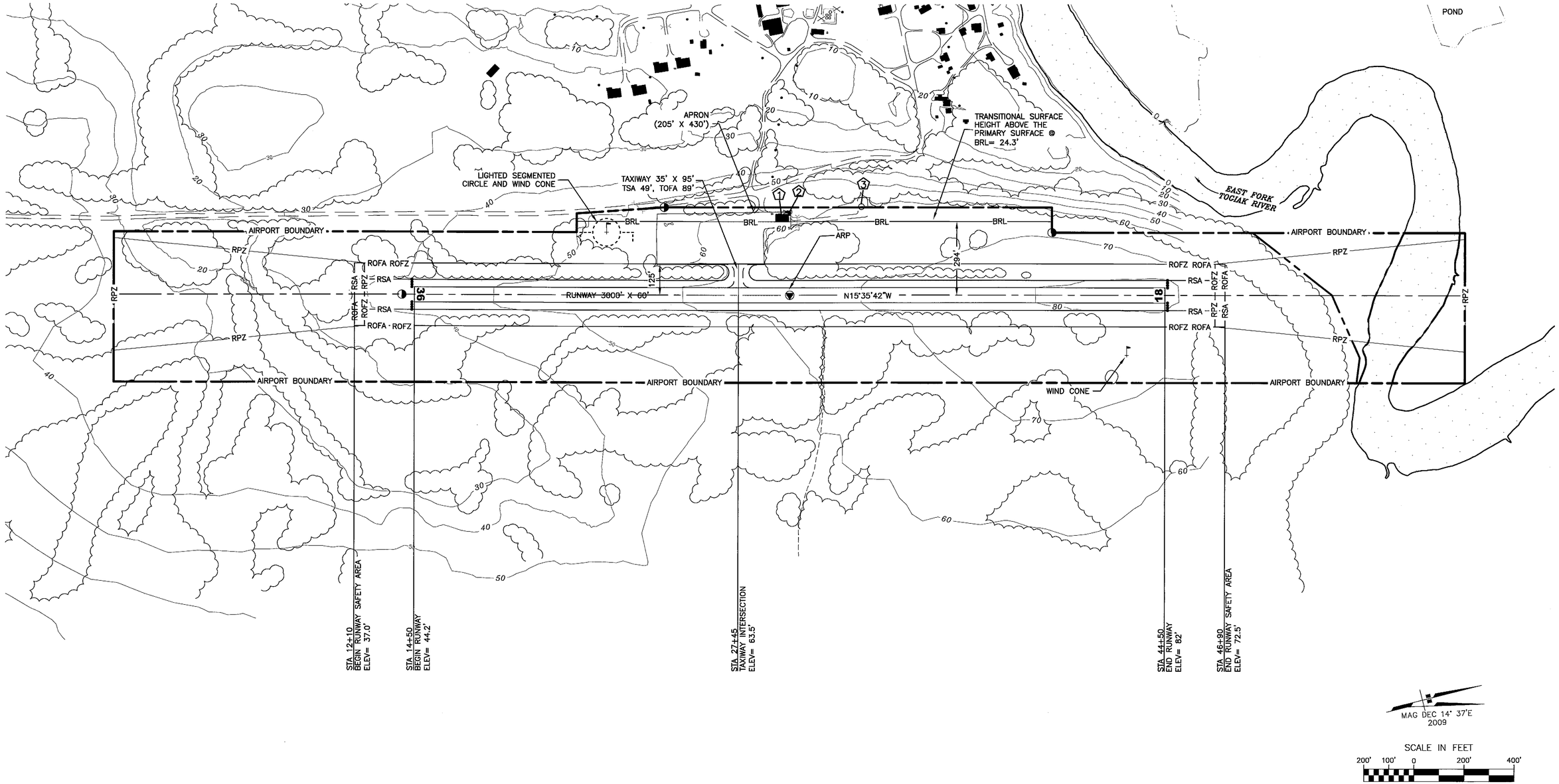
AIRPORT DATA SHEET

DATE: 02/06/2009
SHEET: 1 OF 5

Date Plotted:	2/20/2009, 1:25 PM
Layout Name:	DATA(1)
File Name:	F:\Projects\D594222\D594222\TWIN HILLS\ALP\ALP–HILLS.dwg

Designed By:	mileveilyn
Drawn By:	mbouler
Checked By:	bbanson

FILE No.: 232–101–1



BUILDING DATA TABLE				
ID #	DESCRIPTION	STATION/ OFFSET	TOP ELEV (NAVD88)	OBSTRUCT MARKING
1	SREB	29+19/294' LT	78'	NONE
2	ELECTRICAL ENCLOSURE	29+48/319' LT	68'	NONE
3	WATER TANK	32+36/352' LT	87'	NONE

NOTES

THERE ARE NO ROFZ PENETRATIONS. BRUSH LOCATED WITHIN THE ROFZ IS BELOW THE RUNWAY ELEVATION.

BY	DATE	REVISION

TWIN HILLS AIRPORT
TWIN HILLS, ALASKA
AIRPORT LAYOUT PLAN

AIRPORT LAYOUT PLAN

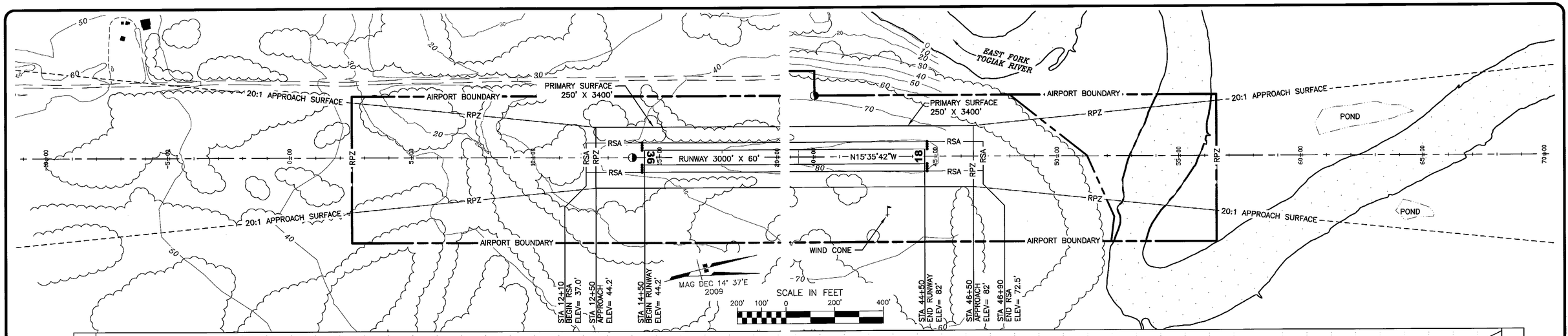
DATE: 02/06/2009

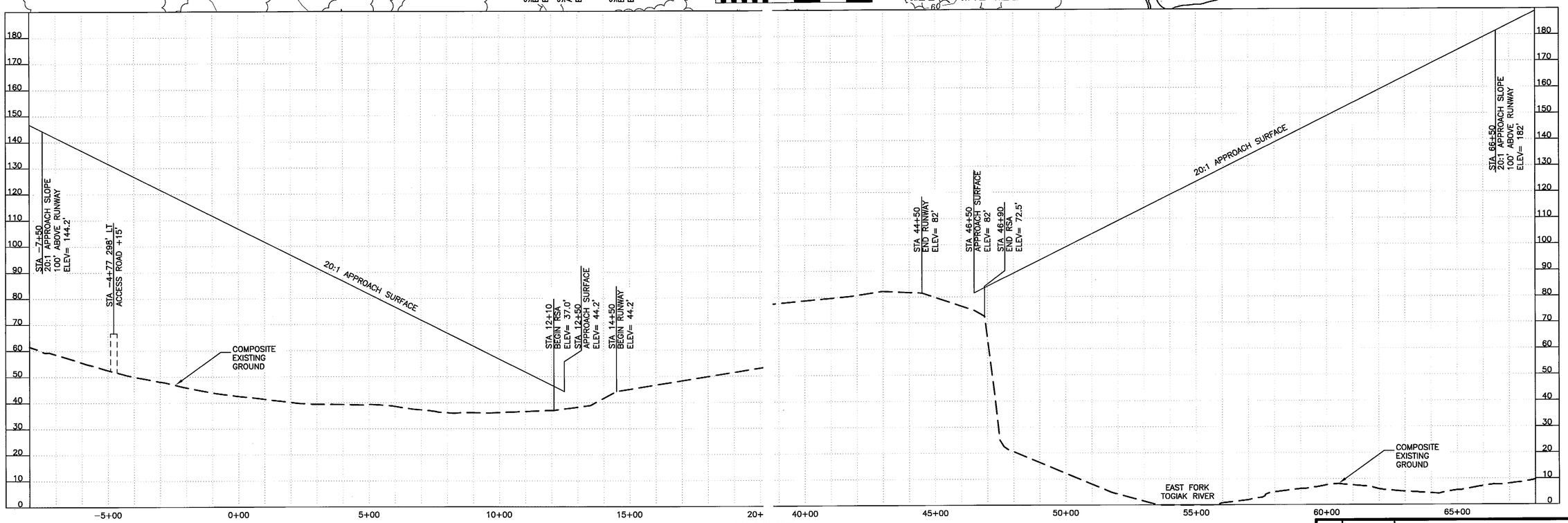
SHEET: 2 OF 5

Date Plotted: 2/20/2009, 1:35 PM
Layout Name: Layout2
File Name: P:\Projects\059422\059422S\TWIN HILLS\ALP\ALP-THILLS.dwg

Designed By: nllewellyn
Drawn By: bcquinn
Checked By: bnordson

FILE No.: 232-101-2





RUNWAY 36

20:1 APPROACH SURFACE OBSTRUCTIONS TABLE (INNER PORTION RW 36)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATION	DISPOSITION	STAGE TO CORRECT
	NONE							

REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.

NOTES

1. THERE ARE NO OBSTRUCTIONS IN THE APPROACH TO RUNWAY 36. THEREFORE THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 50:1 PER FAA AC 150/5200-35, CHAP 4.
2. THERE ARE NO OBJECT PENETRATIONS IN THE RUNWAY APPROACH END SITING SURFACE OF RUNWAY 36, AS DEFINED IN FAA AC 150/5300-13, TABLE A-2, ROW 5.

RUNWAY 18

20:1 APPROACH SURFACE OBSTRUCTIONS TABLE (INNER PORTION RW 18)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATION	DISPOSITION	STAGE TO CORRECT
	NONE							

REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.

NOTES

1. THERE ARE NO OBSTRUCTIONS IN THE APPROACH TO RUNWAY 18. THEREFORE THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 50:1 PER FAA AC 150/5200-35, CHAP 4.
2. THERE ARE NO OBJECT PENETRATIONS IN THE RUNWAY APPROACH END SITING SURFACE OF RUNWAY 18, AS DEFINED IN FAA AC 150/5300-13, TABLE A-2, ROW 5.

BY	DATE	REVISION

TWIN HILLS AIRPORT
TWIN HILLS, ALASKA
AIRPORT LAYOUT PLAN

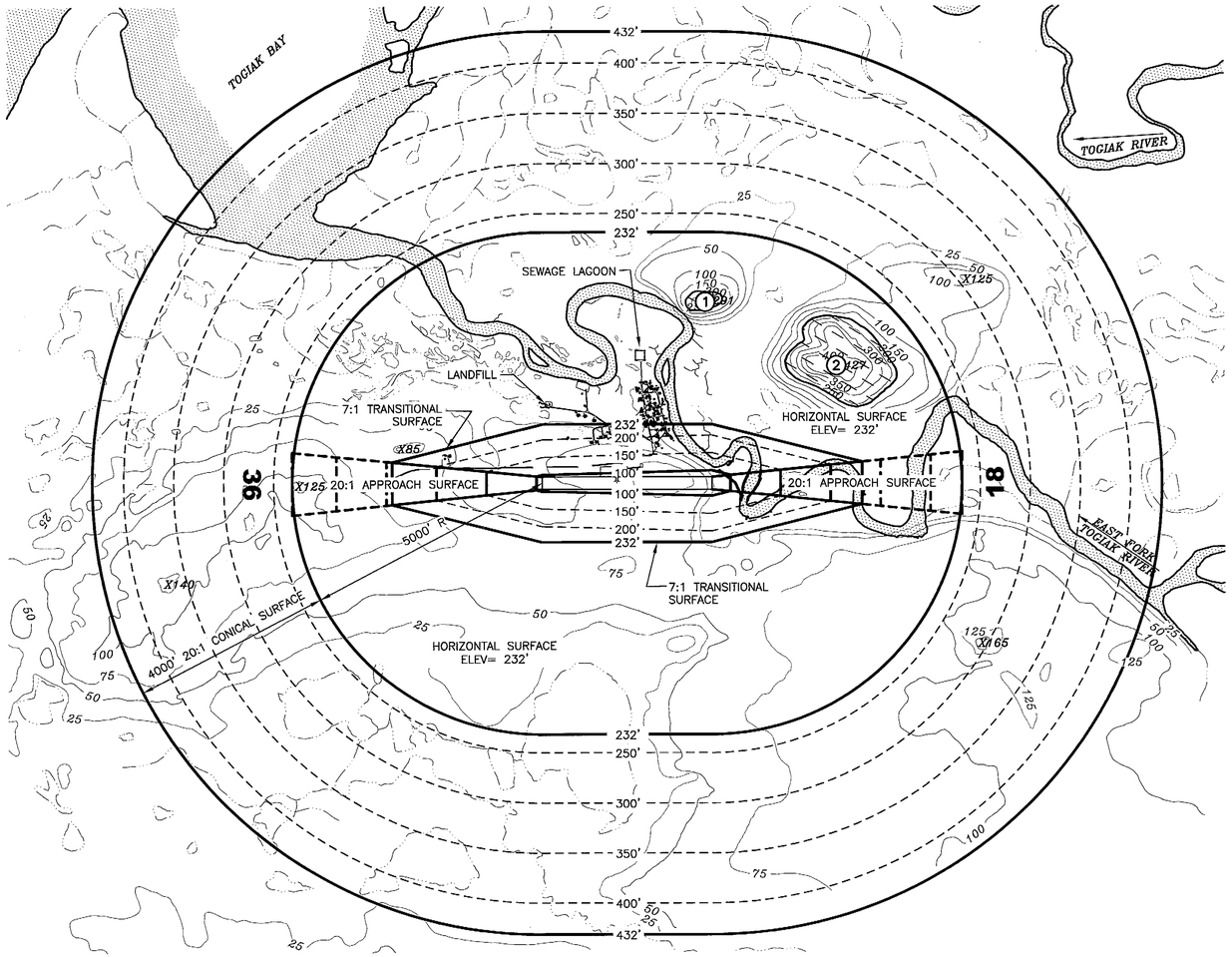
INNER PORTION OF THE APPROACH SURFACE

DATE: 02/06/2009
SHEET: 3 OF 5

FILE No.: 232-101-3

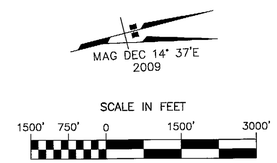
Designed By:	nilsewilyn
Drawn By:	baguilnn
Checked By:	bkanson

Date Plotted: 2/20/2009, 1:36 PM
Layout Name: APP (3)
File Name: P:\Projects\0594422\0594422S\TWIN HILLS\ALP\ALP-THILLS.dwg



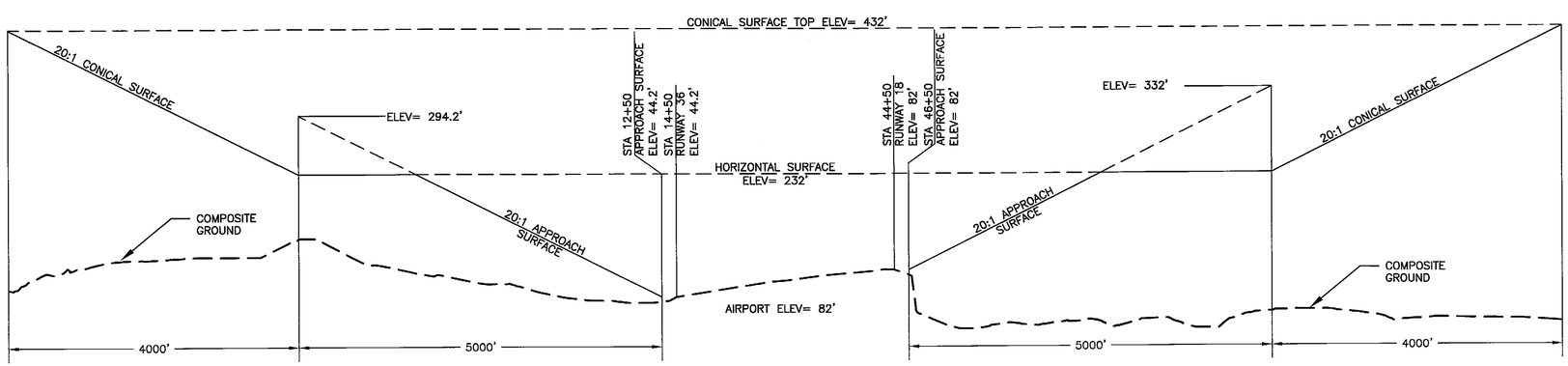
PART 77 SURFACE OBSTRUCTIONS TABLE (OUTER PORTION RW 18/36)								
ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATION	DISPOSTION	STAGE TO CORRECT
1*	TERRAIN	45+12/3600' LT	291'	HORIZONTAL	232'	59'	WILL REMAIN	
2*	TERRAIN	71+58/2300' LT	427'	HORIZONTAL	232'	195'	WILL REMAIN	

* HIGHEST FEATURE IN A LARGE AREA OF TERRAIN PENETRATION. REFER TO HATCHED AREAS ON MAP.



NOTES

1. AIRPORT ELEVATION IS 82'.
2. ALL CONTOURS ARE IN FEET. BASEMAP DATA IS FROM USGS QUAD GOODNEWS (A-4).
3. PRIMARY SURFACE WIDTH IS 250'.
4. A RANGE FINDER WITH A BUILT-IN INCLINOMETER WAS USED TO EVALUATE OBSTRUCTIONS CLOSE TO THE RUNWAY IN THE PRIMARY AND TRANSITIONAL SURFACES.
5. PART 77 SURFACES BASED ON EXISTING AIRPORT LAYOUT.
6. LANDFILL LOCATED 1500' FROM NEAREST POINT ON RUNWAY CENTERLINE. THE SEWAGE LAGOON IS LOCATED 2450' FROM THE NEAREST POINT ON THE RUNWAY.
7. THERE ARE NO KNOWN ORDINANCES OR STATUTES IN EFFECT THAT SPECIFY HEIGHT RESTRICTIONS.
8. REFER TO INNER PORTION OF THE APPROACH SURFACE DRAWING FOR CLOSE-IN OBSTRUCTIONS.
9. APPROACH SURFACES ARE 20:1 BEGINNING AT 200 FEET BEYOND THE THRESHOLDS.



RUNWAY PROFILE

1000' 500' 0 1000' 2000'
HORIZONTAL TO VERTICAL RATIO 1:10

BY	DATE	REVISION

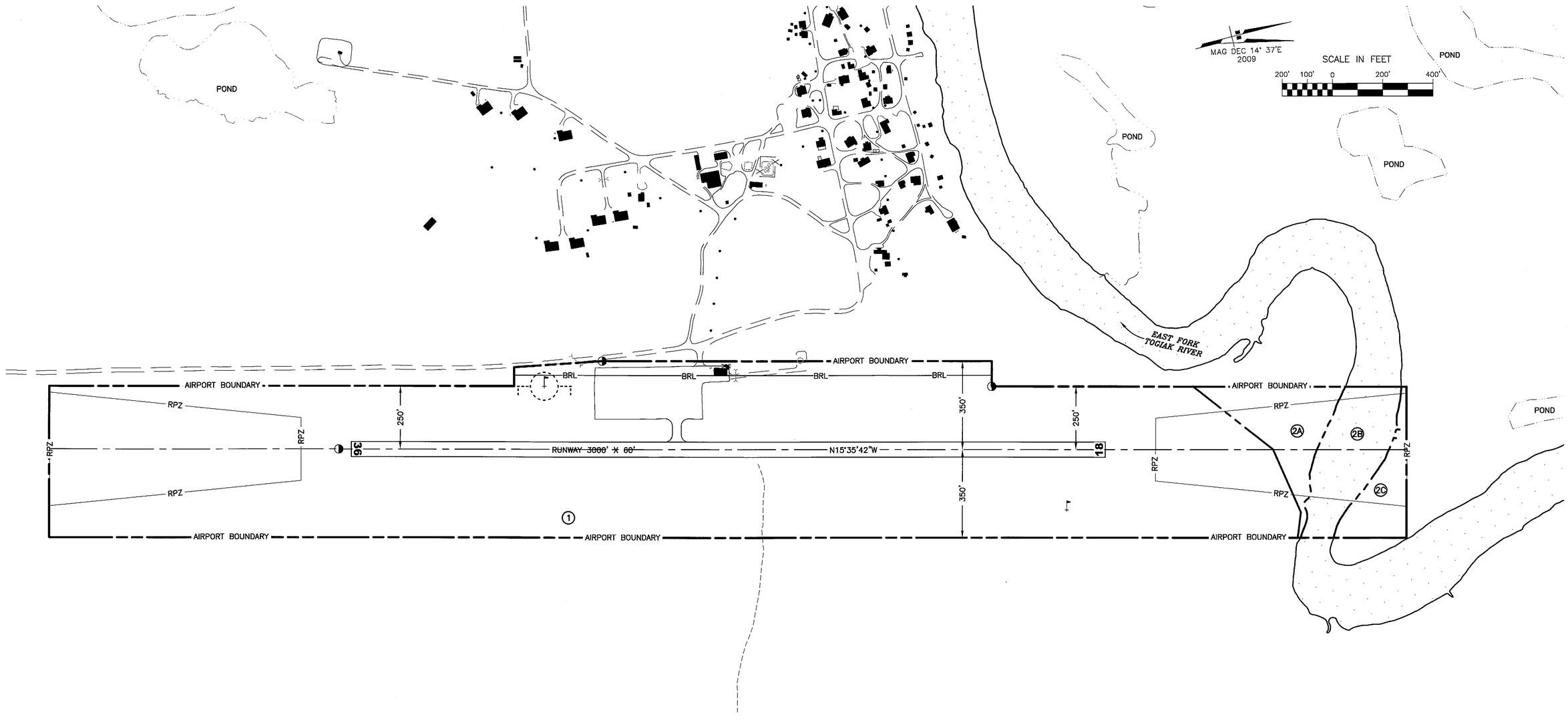
TWIN HILLS AIRPORT
TWIN HILLS, ALASKA
AIRPORT LAYOUT PLAN

AIRPORT AIRSPACE
14 CFR, PART 77

DATE: 02/05/2009
SHEET: 4 OF 5

Date Plotted:	2/20/2009, 1:37 PM
Layout Name:	P77 (4)
File Name:	P:\Projects\D594422\D594422S\TWIN HILLS\VALP\VALP-THILLS.dwg
Designed By:	nllewellyn
Drawn By:	bgoulding
Checked By:	bthomson

FILE No.: 232-101-4



LEGEND

- AIRPORT PROPERTY BOUNDARY
- PARCEL BOUNDARY
- MONUMENT

PROPERTY STATUS

ID #	INTEREST	GRANTOR	GRANTEE	PARCEL SIZE	DATE ACQUIRED	RECORDED DOC NO.	ACQUIRED AIP NO.
1	FEE SIMPLE (SURFACE/SUBSURFACE)	TWIN HILLS NATIVE CORPORATION	STATE OF ALASKA, DOT/PF	70.97 ac ±	6/11/94	BK 42 PG 296	3-02-0356-01
2A	FEE SIMPLE (SURFACE/SUBSURFACE)	TWIN HILLS NATIVE CORPORATION	STATE OF ALASKA, DOT/PF	2.83 ac ±	6/11/94	BK 42 PG 296	3-02-0356-01
2B	ILMA	STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES	STATE OF ALASKA, DOT/PF	3.15 ac ±	5/18/95	ADL 226308	3-02-0356-01
2C	AVIGATION & HAZARD EASEMENT	TWIN HILLS NATIVE CORPORATION	STATE OF ALASKA, DOT/PF	1.70 ac ±	6/11/94	BK 42 PG 296	3-02-0356-01

NOTE:
THE BOUNDARY FOR TRACT 2B IS THE RIVER.

BY	DATE	REVISION

TWIN HILLS AIRPORT
TWIN HILLS, ALASKA
AIRPORT LAYOUT PLAN

AIRPORT PROPERTY MAP

DATE: 02/06/2009
SHEET: 5 OF 5

Date Plotted: 2/20/2009, 1:38 PM
Layout Name: PROP-(5)
File Name: P:\Projects\059422\059422S\TWIN HILLS\ALP\ALP-THILLS.dwg

Designed By:	nikewellyn
Drawn By:	boguinn
Checked By:	bherson

FILE No.: 232-101-5