U.S. Department
of Transportation

**Federal Aviation
Administration**

Alaskan Region

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

July 26, 2012

Laura Strand, P.E.
Project Administrator
Division of CIPM
3000 C St. Suite 104
Anchorage, Alaska 99503

Dear Ms. Strand:

Kaktovik (Barter Island) Airport
Kaktovik, Alaska
Airport Layout Plan Conditional Approval
2006-AAL-162-NRA

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

The conditional approval indicated by my signature is given subject to the condition that the proposed airport development that requires environmental processing shall not be undertaken without prior written environmental approval by the FAA.

This approval considers only the safety, utility, and efficiency of the airport.

This approval does not represent a commitment to provide financial assistance to implement the proposed plan. FAA assistance in any development or its approval for any development will be determined at the time of request, based on the existing regulations, project justification, and eligibility at the time of the request.

A Wildlife Hazard Assessment was completed for the future landfill location in 2003. The North Slope Borough should: 1) continuously monitor the new landfill to ensure that those recommendations from the assessment that were implemented are working to reduce hazardous wildlife and 2) carry out any additional measures that may be required in the future.

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,

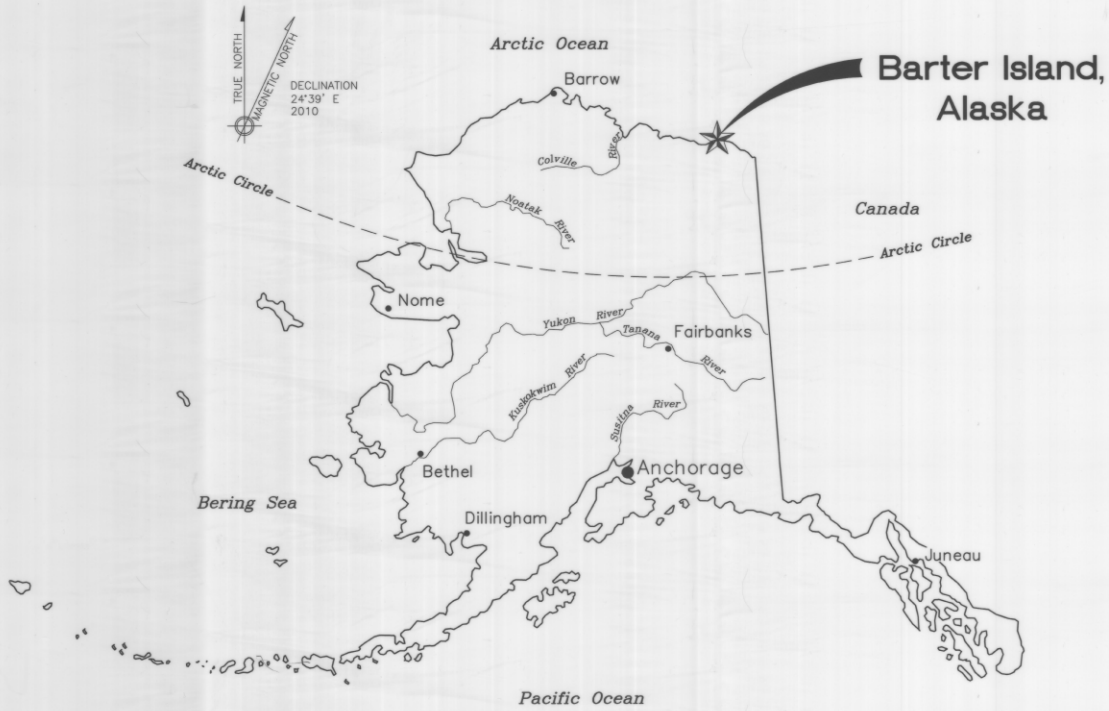
Pat Oien, P.E., Airport Planner
Airports Division

Enclosure: Kaktovik (Barter Island) ALP

AIRPORT LAYOUT PLAN FOR

BARTER ISLAND AIRPORT

2012



LOCATION MAP

SCALE: NONE

DRAWING INDEX

1 COVER SHEET AND DRAWING INDEX
2 VICINITY MAP AND DATA TABLES
3 EXISTING BARTER ISLAND AIRPORT LAYOUT
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5 NEAR TERM KAKTOVIK AIRPORT LAYOUT INNER PORTION OF THE APPROACH SURFACE
6 ULTIMATE KAKTOVIK AIRPORT LAYOUT
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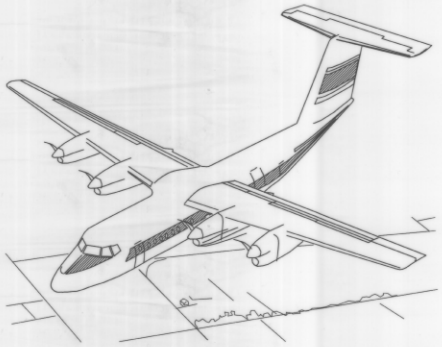
8 ULTIMATE KAKTOVIK AIRPORT AIRSPACE PLAN
9 KAKTOVIK AIRPORT PROPERTY MAP



FILE: 11001_ALP_01.dwg
DATE: 1/24/2012

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12
By: [signature] DATE: 7-26-12
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-162-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
COVER SHEET AND DRAWING INDEX

SHEET 1 OF 9

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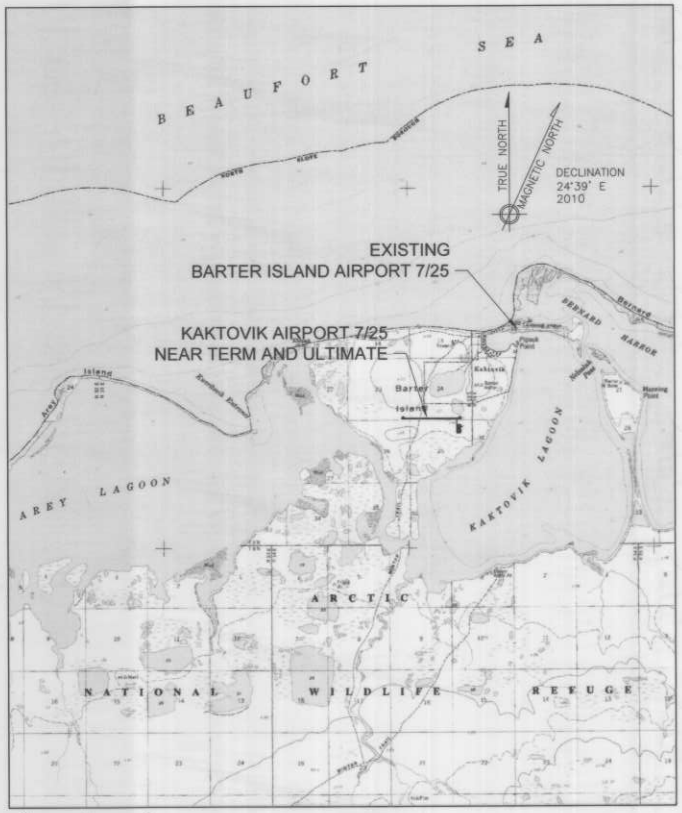
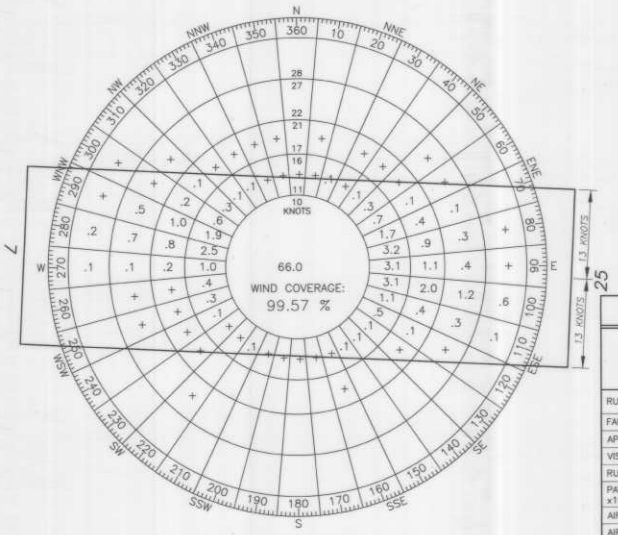


0 1 2
SCALE IN MILES

VICINITY MAP

SECTIONS 17 & 18, T9N, R34E,
SECTIONS 25 & 26, T9N, R33E,
UMIAT MERIDIAN
U.S.G.S. BARTER ISLAND (A-5), ALASKA



WIND DATA

RUNWAY	10.5 KNOTS	13 KNOTS	20 KNOTS
7/25	98.9%	99.6%	99.9%

WIND DATA COVERAGE PERIOD: 01/01/1997 to 12/31/1999
SOURCE DATA: WESTERN REGION CLIMATE CENTER

LEGEND

- AIRPORT REFERENCE POINT
- ANTENNA TOWER
- BUILDINGS
- BRL — BUILDING RESTRICTION LINE
- EDGE OF WATER
- LIGHTED WIND CONE
- PAPI
- PROPERTY LINE
- ROADWAY
- REIL
- SHORELINE
- TOPOGRAPHIC CONTOURS MAJOR
- TOPOGRAPHIC CONTOURS MINOR
- VASI
- WIND CONE AND SEGMENTED CIRCLE
- RSA — RUNWAY SAFETY AREA
- RPZ — RUNWAY PROTECTION ZONE
- OFA — OBJECT FREE AREA
- OFZ — OBJECT FREE ZONE
- POFA — PRECISION OBJECT FREE ZONE

AIRPORT DATA

ITEM		EXISTING	NEAR TERM	ULTIMATE
ICAO IDENTIFIER		PABA	PABA	PABA
NATIONAL AIRPORT IDENTIFIER		BTI	BTI	BTI
AIRPORT ELEVATION (MSL NAVD88)		2'	55.68'	55.68'
AIRPORT REFERENCE POINT (ARP NAD 83)	LAT.	70°08'02.36" N	70°06'46.33" N	70°06'46.33" N
	LONG.	143°34'54.72" W	143°39'13.04" W	143°39'13.04" W
AIRPORT REFERENCE CODE		B II	B II	B II
MEAN MAX. TEMPERATURE, HOTTEST MONTH		47° F, JULY	47° F, JULY	47° F, JULY
AIRPORT AND TERMINAL NAVIGATION AIDS		NDB, ROTATING BEACON	NDB, ROTATING BEACON	NDB, ROTATING BEACON
		GPS, REIL, VASI	GPS, REIL, PAPI	GPS, REIL, PAPI
RUNWAY LIGHTING		MIRL	MIRL	MIRL
TAXIWAY LIGHTING		MITL	MITL	MITL
RUNWAY OBSTRUCTION SURVEY SOURCE & TYPE		NONE	VG	VG
MAGNETIC DECLINATION, YEAR , RATE OF CHANGE		24°39'E (2010), – 0°31'(W) / YEAR		

RUNWAY DATA

ITEM		EXISTING BARTER ISLAND AIRPORT 7/25		NEW KAKTOVIK AIRPORT 7/25	
		EXISTING	NEAR TERM	NEAR TERM	ULTIMATE
RUNWAY TYPE (UTILITY OR OTHER THAN UTILITY)		OTHER THAN UTILITY	ABANDONED	OTHER THAN UTILITY	OTHER THAN UTILITY
FAR PART 77 APPROACH CATEGOREY (V, NPI, P)		NPI		NPI	P
APPROACH SURFACES		34:1/34:1		34:1/34:1	50:1/50:1
VISIBILITY MINIMUM		VISUAL		3/4 SM	1/2 SM
RUNWAY SURFACE		GRAVEL		GRAVEL	PAVED
PAVEMENT STRENGTH (SW, DW, DTW, DDTW) x1000lbs		N/A		N/A	75 SW, 160 DW, 300 DTW
AIRCRAFT APPROACH CATEGOREY		B		B	B
AIRPLANE DESIGN GROUP		II		II	II
MEAN GEODETIC BEARING		N 92°57'36" W		N 89°57'39" W	N 89°57'39" W
EFFECTIVE GRADE		0.05%		0.23%	0.23%
TOUCHDOWN ELEVATION (NAVD88)		2.3'/–0.2'		55.68/51.00	55.68/51.00
RUNWAY DIMENSIONS		150' x 4818'		100' x 4500'	100' x 4500'
RUNWAY SAFETY AREA (RSA) DIMENSIONS		150' x 4926'		150' x 5100'	300' x 5700'
RSA LENGTH BEYOND R/W END		54'/54'		300'/300'	600'/600'
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	LENGTH	N/A		1700'	2500'
	INNER WIDTH	N/A		1000'	1000'
	OUTER WIDTH	N/A		1510'	1750'
	AREA	N/A		2,567,000 sq ft	4,375,000 sq ft
RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS		400' x 4926'		500'x5100'	800'x5700'
OFA LENGTH BEYOND R/W END OR STOPWAY		54'		300'/300'	600'/600'
RUNWAY OBSTACLE FREE ZONE (OFZ) DIMENSIONS		400' x 5236'		250' x 4900'	300' x 4900'
RUNWAY PRECISION OBSTACLE FREE ZONE		N/A		N/A	800' X 200'
RUNWAY MARKING TYPE		END PANELS		THRESHOLD MARKERS	PRECISION ASPHALT MARKINGS
RUNWAY VISUAL APPROACH AIDS		REIL, VASI 4		PAPI 4, REIL	PAPI 4, REIL

MODIFICATION TO STANDARDS
NON STANDARD CONDITIONS

ITEM	STANDARD	EXISTING	NEAR TERM	ULTIMATE	DISPOSITION
DISTANCE OF LANDFILL FACILITY FROM RUNWAY	10,000'	9000'	2812'	2812'	NONE
DISTANCE OF SEWAGE LAGOON FACILITY FROM RUNWAY	10,000'	9000'	3275'	3275'	NONE
RSA LENGTH BEYOND RUNWAY END	300'/300'	54'/54'	300'/300'	600'/600'	CONSTRUCT NEW KAKTOVIK AIRPORT
OFA WIDTH	500'	400'	500'	800'	CONSTRUCT NEW KAKTOVIK AIRPORT
OFA LENGTH BEYOND RUNWAY END	300'/300'	54'/54'	300'/300'	600'/600'	CONSTRUCT NEW KAKTOVIK AIRPORT
WIND CONE PENETRATES PART 77 SURFACE	NO	YES	NO	NO	CONSTRUCT NEW KAKTOVIK AIRPORT
ACCESS ROAD/RUNWAY CENTERLINE SEPARATION	BEYOND OFZ AND NO PENETRATIONS TO PART 77	100'	930'	930'	CONSTRUCT NEW KAKTOVIK AIRPORT
EMBANKMENT SIDE SLOPES	4:1	N/A	3:1	3:1	NONE

GEOGRAPHIC COORDINATES

	ITEM	EXISTING		NEAR TERM		ULTIMATE	
		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
BARTER ISLAND AIRPORT	THRESHOLD RUNWAY 7	70°08'03.58" N	143°36'04.30" W				
	THRESHOLD RUNWAY 25	70°08'01.13" N	143°33'45.14" W				
KAKTOVIK AIRPORT	THRESHOLD RUNWAY 7			70°06'45.73" N	143°40'18.03" W	70°06'45.73" N	143°40'18.03" W
	THRESHOLD RUNWAY 25			70°06'46.94" N	143°38'08.06" W	70°06'46.94" N	143°38'08.06" W

FILE: 11001_ALP_02.dwg
DATE: 1/24/2012

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL
SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12
By: [signature] DATE: 7-26-12
FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2012-AAL-162-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants
APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
VICINITY MAP AND DATA TABLES

SHEET 2 OF 9

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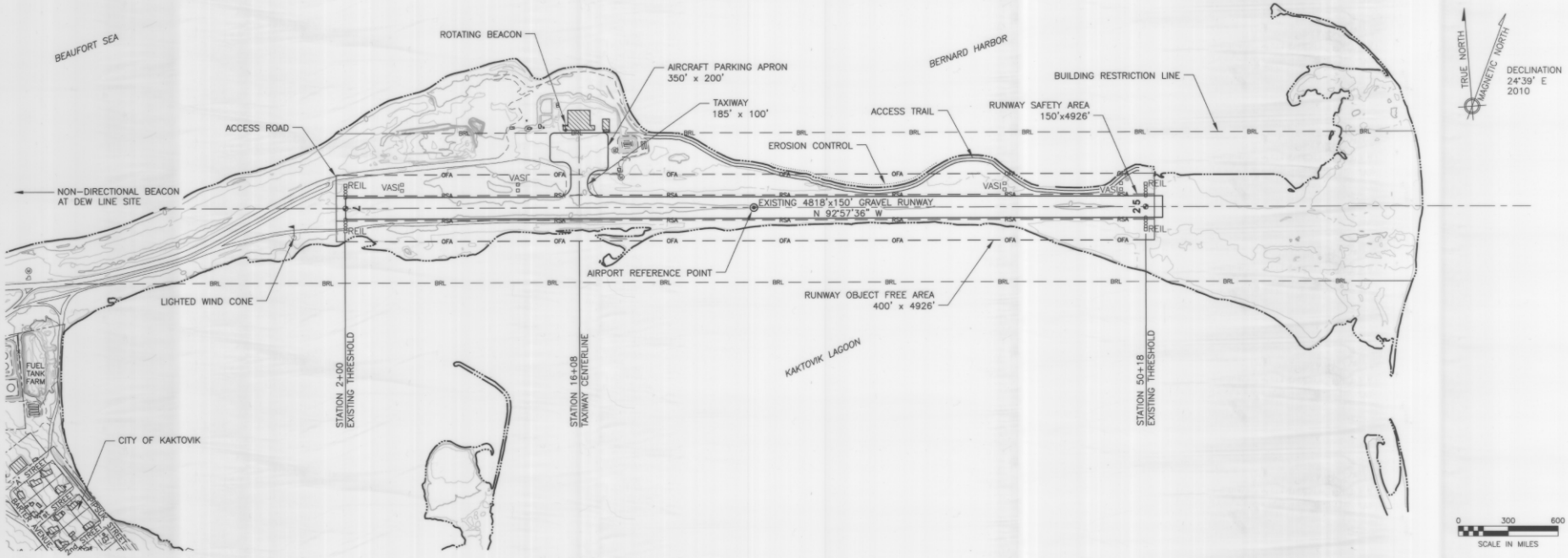

BARTER ISLAND AIRPORT - EXISTING AIRPORT LAYOUT PLAN

FILE: 11001_ALP_03.dwg
DATE: 1/24/2012

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12
By: [signature] DATE: 7-26-12
FAA, AIRPORTS DIVISION, ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-167-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
EXISTING BARTER ISLAND AIRPORT LAYOUT

SHEET 3 OF 9

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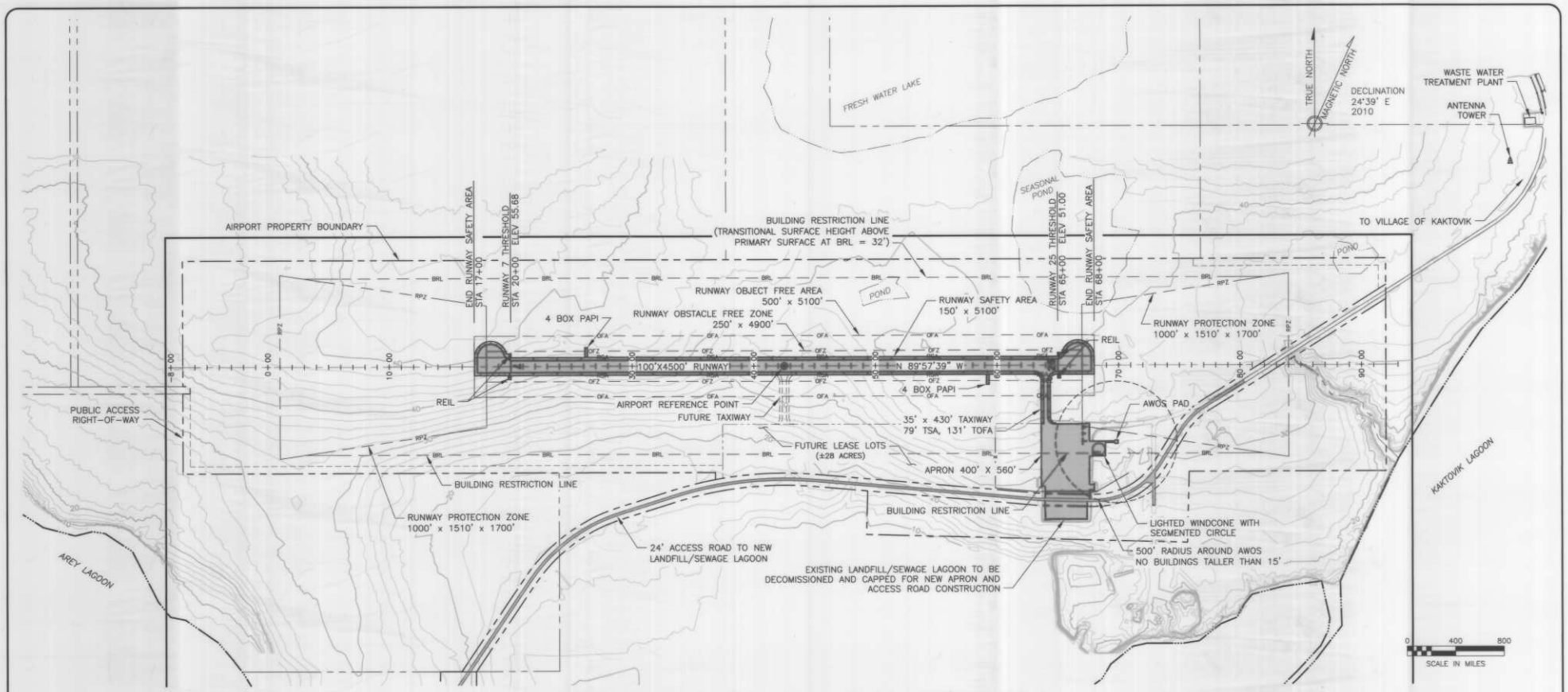

KAKTOVIK AIRPORT - NEAR TERM AIRPORT LAYOUT PLAN

FILE: 11001_ALP_04-05.dwg
DATE: 1/24/2012

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL
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FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-162-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

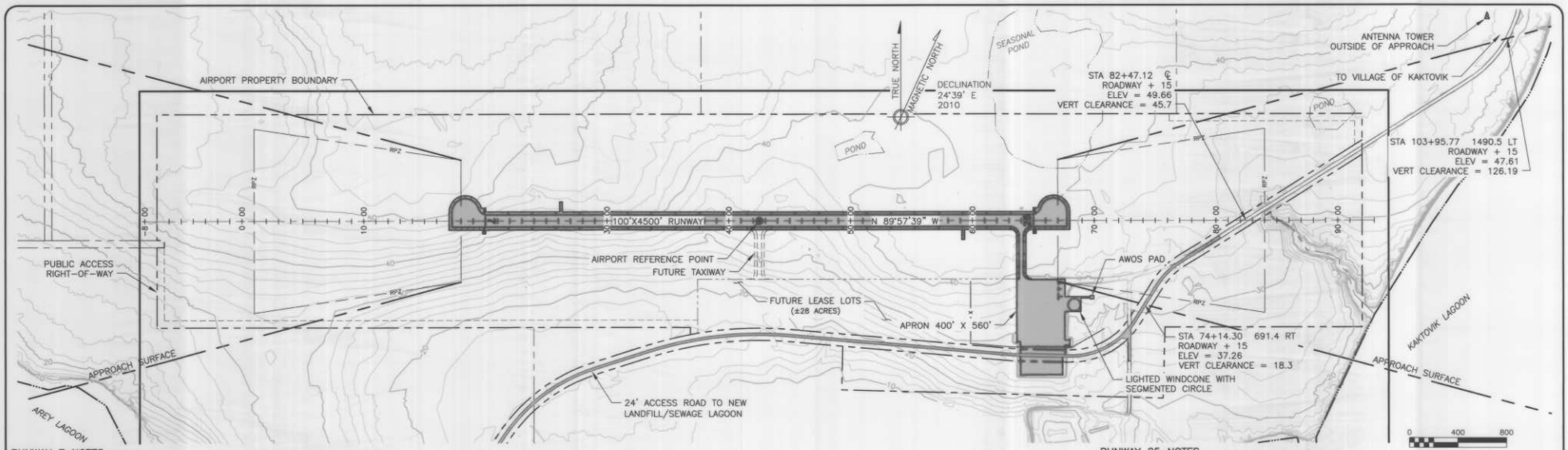
PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY, LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
NEAR TERM KAKTOVIK AIRPORT LAYOUT

SHEET 4 OF 9



RUNWAY 7 NOTES

1. THE CONTROLLING OBSTRUCTION FOR RUNWAY 25 IS THE ACCESS ROAD CROSSING AT STATION 73+42.21, ROAD ELEVATION PLUS A 15' VEHICLE IS 45.89'. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 34:1 PER FAA AC 150/5200-35, SECTION 4, DATA ELEMENT NUMBER 57.
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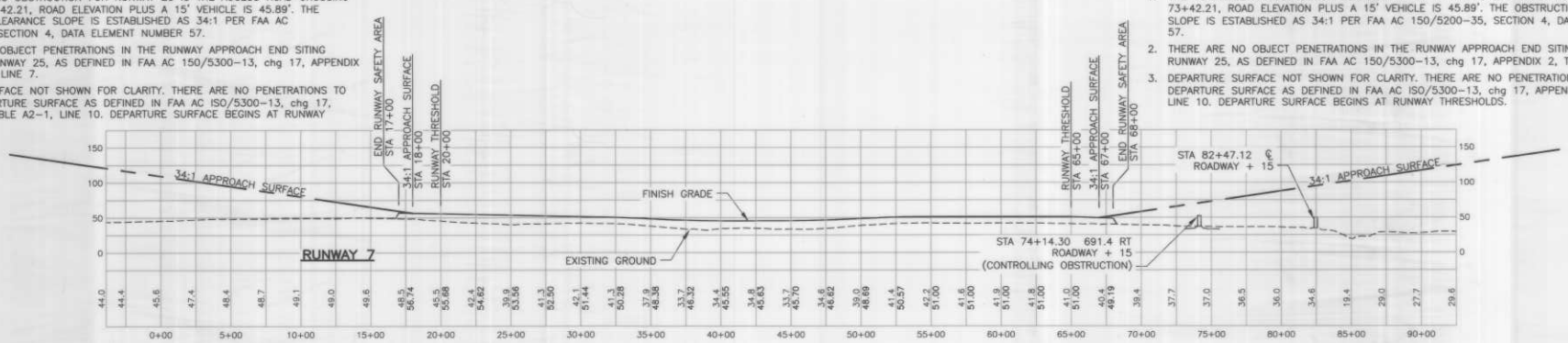

KAKTOVIK AIRPORT - NEAR TERM AIRPORT INNER APPROACH SURFACE

NOTE: REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER SURFACES

PART 77 SURFACE OBSTRUCTION TABLE (INNER PORTION RW 7)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION (MSL)	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
	NONE							

NOTE: REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER SURFACES

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FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-DBL-162-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

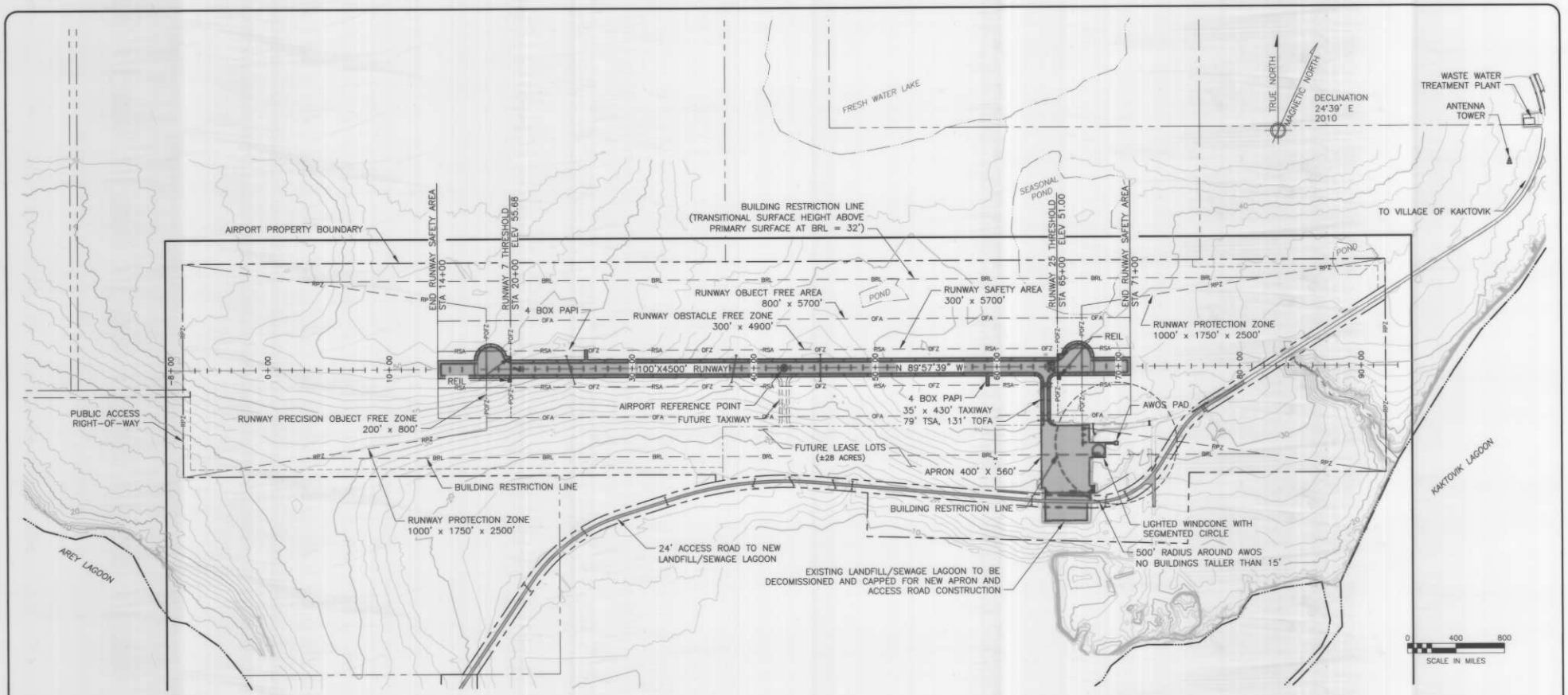
PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
NEAR TERM KAKTOVIK AIRPORT LAYOUT
INNER PORTION OF THE APPROACH SURFACE

SHEET 5 OF 9



KAKTOVIK AIRPORT - ULTIMATE AIRPORT LAYOUT PLAN

FILE: 11001_ALP_06-07.dwg
DATE: 1/24/2012

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL
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By: Pat Die DATE: 7-26-12
FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL- 621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-168-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

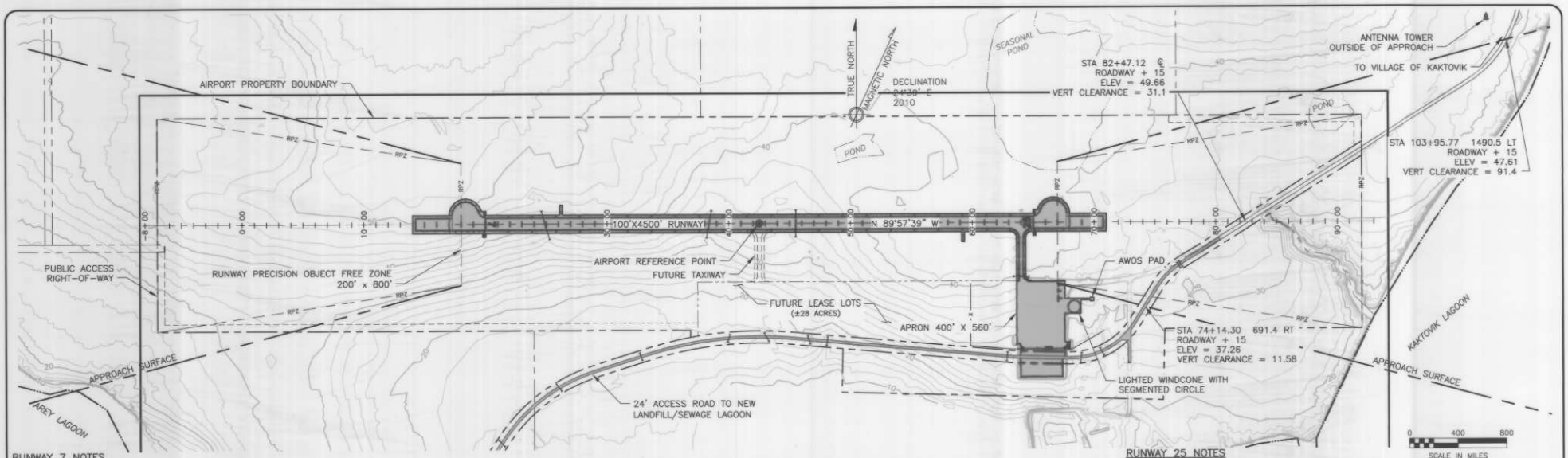
PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: HATTENBURG DILLEY & LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
ULTIMATE KAKTOVIK AIRPORT LAYOUT

SHEET 6 OF 9



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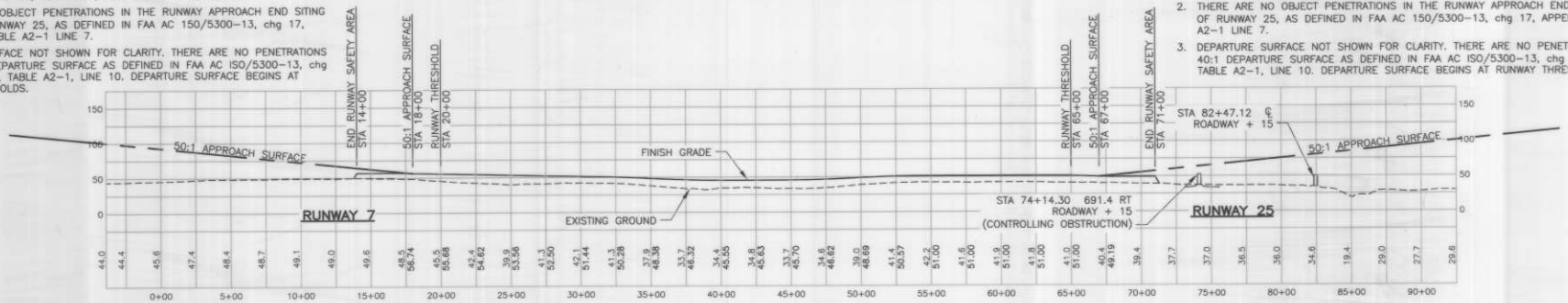

KAKTOVIK AIRPORT - ULTIMATE AIRPORT INNER APPROACH SURFACE

NOTE: REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF TYHE OUTER SURFACES

PART 77 SURFACE OBSTRUCTION TABLE (INNER PORTION RW 7)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION (MSL)	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
	NONE							

NOTE: REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF TYHE OUTER SURFACES

PART 77 SURFACE OBSTRUCTION TABLE (INNER PORTION RW 25)

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	NONE							

FILE: 11001_ALP_06-07.dwg
DATE:

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12
By: DATE: 7-26-12
FAA, AIRPORTS DIVISION, ALASKAN REGION, AAL-

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants
APPROVED: HATTENBURG DILLEY & LINNELL LLC

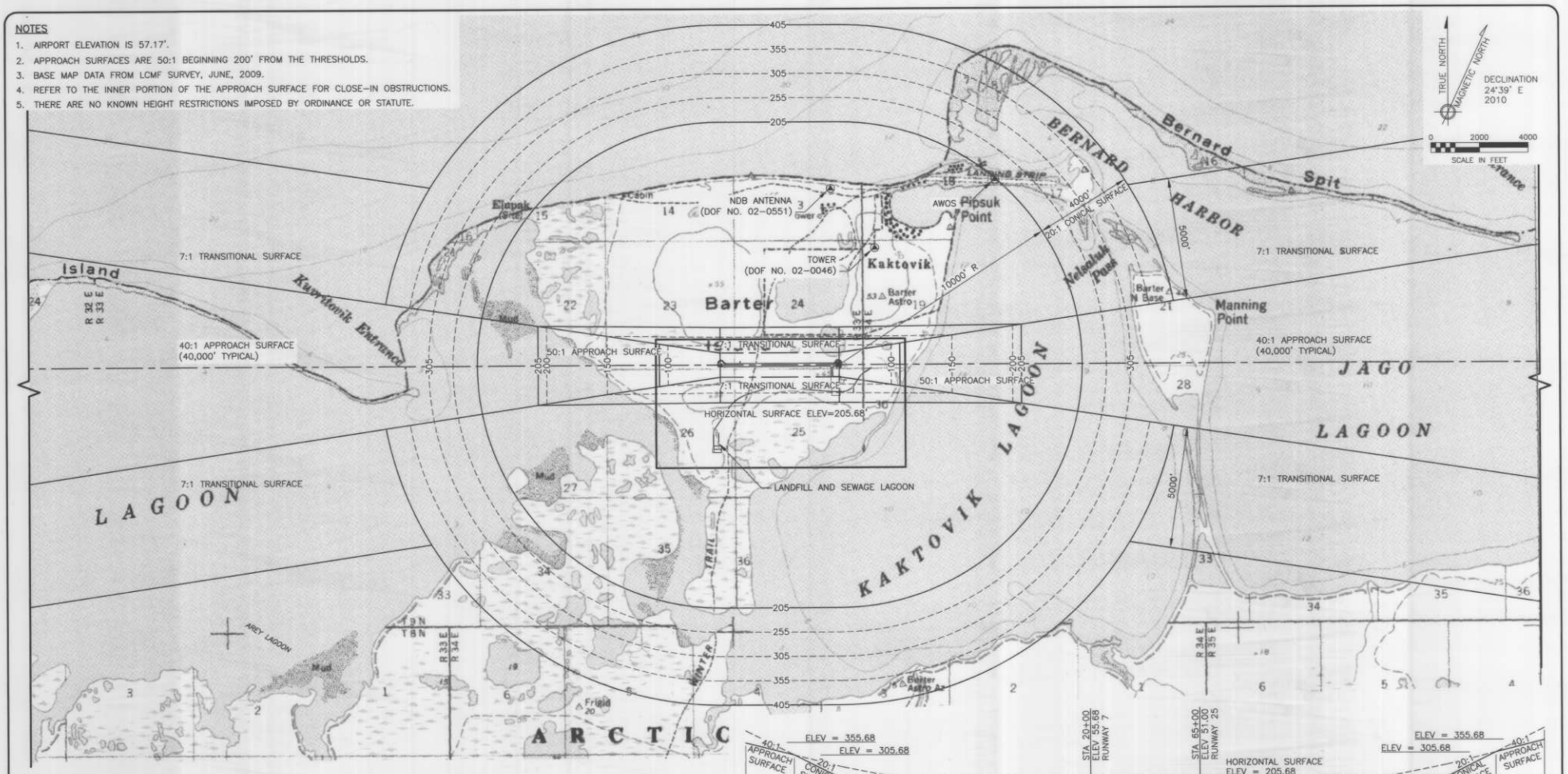
DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

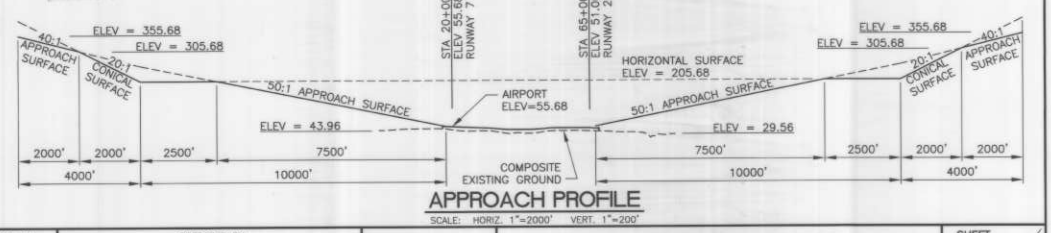
BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
ULTIMATE KAKTOVIK AIRPORT LAYOUT
INNER PORTION OF THE APPROACH SURFACE

SHEET 7 OF 9

NOTES

1. AIRPORT ELEVATION IS 57.17'.
2. APPROACH SURFACES ARE 50:1 BEGINNING 200' FROM THE THRESHOLDS.
3. BASE MAP DATA FROM LCMF SURVEY, JUNE, 2009.
4. REFER TO THE INNER PORTION OF THE APPROACH SURFACE FOR CLOSE-IN OBSTRUCTIONS.
5. THERE ARE NO KNOWN HEIGHT RESTRICTIONS IMPOSED BY ORDINANCE OR STATUTE.





APPROACH PROFILE

SCALE: HORIZ. 1"=2000' VERT. 1"=200'

F.A.R. PART 77 IMAGINARY SURFACE OBSTRUCTION TABLE

DOF ID NO.	DESCRIPTION	STA/OFFSET	OBSTRUCTION ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	DISPOSITION	STAGE TO BE CORRECTED
02-0551	NDB ANTENNA	63+82/7252' LT	217'	HORIZ.	205.68	11.34'	PERMANENT	N/A
02-0046	TOWER	81+87/4806' LT	218'	HORIZ.	205.68	12.32'	PERMANENT	N/A

FILE:
DATE:

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12
By: [signature] DATE: 7-26-12
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-621
F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-162-NRA

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

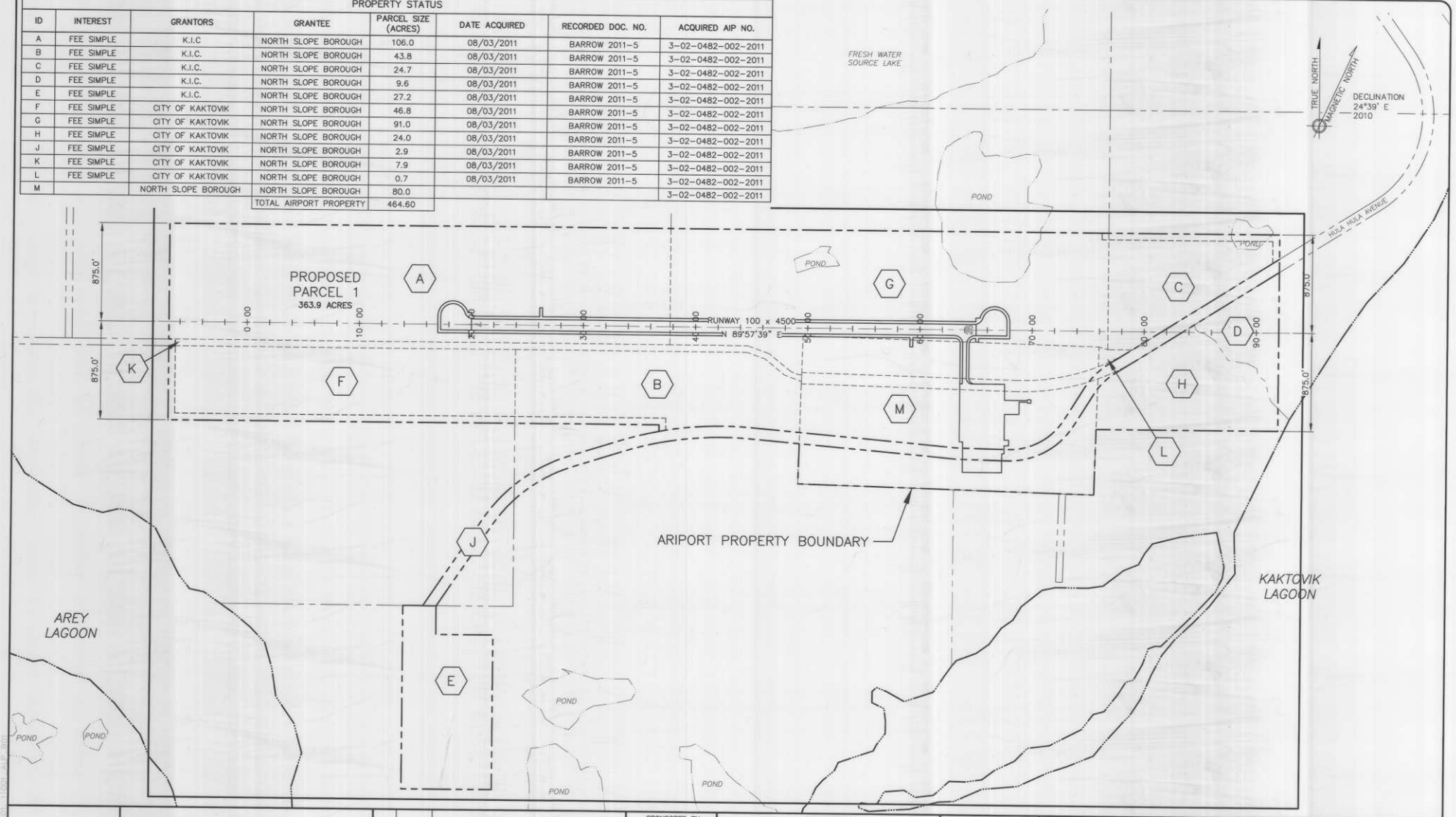
DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT
AIRPORT LAYOUT PLAN
ULTIMATE KAKTOVIK AIRPORT AIRSPACE PLAN

SHEET 8 OF 9

PROPERTY STATUS

ID	INTEREST	GRANTORS	GRANTEE	PARCEL SIZE (ACRES)	DATE ACQUIRED	RECORDED DOC. NO.	ACQUIRED AIP NO.
A	FEE SIMPLE	K.I.C	NORTH SLOPE BOROUGH	106.0	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
B	FEE SIMPLE	K.I.C.	NORTH SLOPE BOROUGH	43.8	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
C	FEE SIMPLE	K.I.C.	NORTH SLOPE BOROUGH	24.7	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
D	FEE SIMPLE	K.I.C.	NORTH SLOPE BOROUGH	9.6	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
E	FEE SIMPLE	K.I.C.	NORTH SLOPE BOROUGH	27.2	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
F	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	46.8	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
G	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	91.0	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
H	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	24.0	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
J	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	2.9	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
K	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	7.9	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
L	FEE SIMPLE	CITY OF KAKTOVIK	NORTH SLOPE BOROUGH	0.7	08/03/2011	BARROW 2011-5	3-02-0482-002-2011
M		NORTH SLOPE BOROUGH	NORTH SLOPE BOROUGH	80.0			3-02-0482-002-2011
			TOTAL AIRPORT PROPERTY	464.60			



AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 7-26-12

By: [signature] DATE: 7-26-12

FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-621

F.A.A. AIRSPACE REVIEW NUMBER: 2006-AAL-102-NRA

FILE:

DATE:

BY	DATE	REVISIONS

SPONSORED BY: NORTH SLOPE BOROUGH

PREPARED BY: HDL HATTENBURG DILLEY & LINNELL Engineering Consultants

APPROVED: [signature] HATTENBURG DILLEY LINNELL LLC

DATE FEB. 2012
DESIGN MRS
DRAWN MMHN
CHECKED SLH

BARTER ISLAND AIRPORT

AIRPORT LAYOUT PLAN

KAKTOVIK AIRPORT PROPERTY PLAN

SHEET 9 OF 9