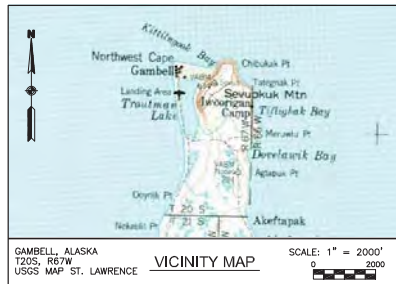


## GAMBELL, ALASKA AIRPORT LAYOUT PLAN GAMBELL AIRPORT



LEGEND	
ITEM	EXISTING/ULTIMATE
AIRPORT REFERENCE POINT	⊙
AWOS	△
BUILDING	▭
BUILDING RESTRICTION LINE (BRL)	▬
BUSH	•••••
CENTER LINE	—
CONTOUR	100
FENCE	X X
LEASE LOT LINE	—
LIGHTING	⊕
ODALS, REILS	⊕
PROPERTY LINE	—
ROADWAY/TRAIL	—
ROTATING BEACON	⊕
RUNWAY SAFETY AREA (RSA)	RSA
RUNWAY OBJECT FREE ZONE (OFZ)	OFZ
RUNWAY OBJECT FREE AREA (ROFA)	ROFA
RUNWAY PROTECTION ZONE (RPZ)	RPZ
SEGMENTED CIRCLE	⊙
SHORELINE	—
SURVEY MONUMENT	•
THRESHOLD LIGHTS	•••••
VASI	□ □
WIND CONE	⊕

SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER
2	AIRPORT DATA
3	EXISTING/ULTIMATE AIRPORT LAYOUT PLAN
4	EXISTING/ULTIMATE TERMINAL PLAN
5	EXISTING/ULTIMATE INNER PORTION OF APPROACH SURFACE
6	AIRPORT AIRSPACE (FAR PART 77)

DESIGN	REH
DRAWN	REH
CHECKED	CML

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
NORTHERN REGION-AVIATION

APPROVED: *Albert M.L. Beck* DATE 12/16/2020  
ALBERT M.L. BECK, P.E. PROJECT DELIVERY LEAD

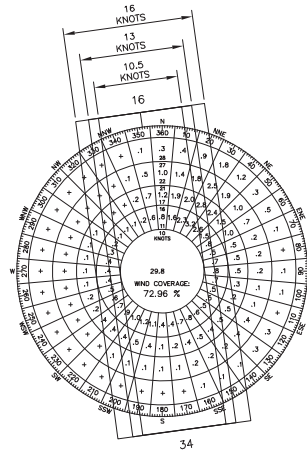
AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO  
ALP APPROVAL LETTER DATED 8/30/2017  
FAA AIRSPACE REVIEW NUMBER: 2017-AAL-8-NRA

**As-Built Accepted** DATE \_\_\_\_\_  
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL- \_\_\_\_\_

BY	DATE	REVISIONS

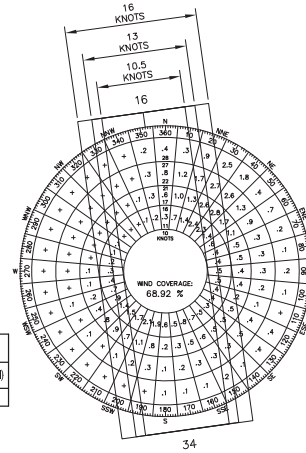
GAMBELL AIRPORT  
GAMBELL, ALASKA  
COVER

SHEET 1 OF 6



WIND DATA (ALL WEATHER)			
RUNWAY	16 kt (B-II-C-I)	13 kt (B-II-A-II)	10.5 kt (A-I-B-I)
16/34	83.93%	72.95%	62.03%

SOURCE: NDCI ISH/ISD  
STATION NAME: GAMBELL  
PERIOD: 2006-2015



WIND DATA (IFR)			
RUNWAY	16 kt (B-II-C-I)	13 kt (B-II-A-II)	10.5 kt (A-I-B-I)
16/34	79.71%	67.74%	56.43%

SOURCE: NDCI ISH/ISD  
STATION NAME: GAMBELL  
PERIOD: 2006-2015

GEOGRAPHIC COORDINATES (NAD 83) & ELEVATIONS (NAVD 88)						
ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	EXISTING ELEVATION	ULTIMATE LATITUDE	ULTIMATE LONGITUDE	ULTIMATE ELEVATION
AIRPORT REFERENCE POINT	63°45'59.82" N	171°43'58.02" W	N/A	SAME	SAME	SAME
RW 16 END	63°46'21.75" N	171°44'04.93" W	29.51'	SAME	SAME	SAME
RW 34 END	63°45'37.88" N	171°43'51.11" W	28.79'	SAME	SAME	SAME

PACS & SACS*							
DESIGNATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	NORTHING	EASTING	ELEVATION	DESCRIPTION
GAM C	63°46'01.30" N	171°43'51.28" W	30.14	3572878.509	1360284.372	16.36	PACS
GAM D	63°46'23.20" N	171°43'57.89" W	31.12	3575110.967	1360047.706	17.36	SACS
GAM E	63°45'38.15" N	171°43'45.25" W	29.37	3570520.581	1360497.780	15.57	SACS

\*MEAN OPUS VALUES (SUBJECT TO CHANGE AS DATASHEET ARE APPROVED.)

MODIFICATIONS TO STANDARDS	
NONE REQUIRED	

- NOTES**
- THIS DRAWING IS BASED ON OBSTRUCTION CHART AERONAUTICAL SURVEY GAM-215291 COMPLETED JUNE 2019.
  - ALL DISTANCES AND COORDINATES SHOWN HEREON ARE NAD83 IN U.S. SURVEY FEET.
  - THE VERTICAL DATUM IS NAVD 88 USING GEOID12B.
  - THIS PROJECT USES SURVEY DATA OBTAINED JUNE 2019 BY LOUNSBURY.

AIRPORT DATA		
ITEM	GAMBELL AIRPORT	
	EXISTING	ULTIMATE
ICAO IDENTIFIER	PAGM	SAME
NATIONAL AIRPORT IDENTIFIER	GAM	SAME
FAA SITE NUMBER	50260.*A	SAME
AIRPORT REFERENCE CODE (ARC)	B-II	SAME
NPIAS SERVICE LEVEL (P, CS, R, GA)	GA	SAME
AASP CLASSIFICATION	COMMUNITY OFF ROAD	SAME
AIRPORT ELEVATION (NAVD88)	29.52'	SAME
MEAN MAX. TEMPERATURE, HOTTEST MONTH	49.9°F, JULY	SAME
OBSTRUCTION SURVEY SOURCE & TYPE	AOC (SEE NOTES)	SAME
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE SOURCE: WWW.NGDC.NOAA.GOV	6°04'E, 2020, 0°19'W / YEAR	SAME
AIRPORT AND TERMINAL NAVIGATION AIDS	ROT. BEACON, WINDCONE, SEG. CIR., NDB, DME, AWOS	SAME

RUNWAY DATA		
ITEM	RUNWAY 16/34	
	EXISTING	ULTIMATE
FAR PART 77 APPROACH CATEGORY (UTILITY, OTHER THAN UTILITY)	OTHER THAN UTILITY	SAME
FAR PART 77 APPROACH TYPE (V, C, NPA, PA)	NPA / NPA	SAME
AERONAUTICAL SURVEY TYPE	VERTICALLY GUIDED	SAME
RUNWAY DESIGN CODE (RDC)	B-II-5000	SAME
RUNWAY REFERENCE CODE (RRC)	B-II-5000	SAME
CRITICAL AIRCRAFT	BEHCRAFT 1900	SAME
FAR PART 77 APPROACH SLOPE	34:1 / 34:1	SAME
THRESHOLD SITING SURFACE	20:1 / 20:1	SAME
VISIBILITY MINIMUM	≥1 SM / ≥1 SM	SAME
RUNWAY SURFACE	ASPHALT	SAME
PAVEMENT STRENGTH (SW,DW,DTW x1000lbs)	22, NA, NA	SAME
TRUE MEAN BEARING	N 07°56'10" W	SAME
MAXIMUM ELEVATION ABOVE MSL	29.52'	SAME
EFFECTIVE GRADE	0.02%	SAME
RUNWAY TOUCHDOWN ZONE ELEVATIONS (NAVD 88)	RW 16: 29.52' RW 34: 28.79'	SAME
RUNWAY DIMENSIONS	100' x 4,500'	100' x 4,500'
RUNWAY PAVED SHOULDERS	10'	10'
RUNWAY SAFETY AREA (RSA) DIMENSIONS	150' x 5,100'	150' x 5,100'
RSA LENGTH BEYOND RW ENDS	300'	SAME
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	500' x 700' x 1,000'	SAME
RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS	500' x 5,100'	500' x 5,100'
ROFA LENGTH BEYOND RW ENDS	300'	SAME
RUNWAY OBSTACLE FREE ZONE (OFZ) DIMENSIONS	400' x 4,900'	400' x 4,900'
PRECISION OBJECT FREE ZONE (POFZ) DIMENSIONS	N/A	SAME
RUNWAY LIGHTING TYPE	MIRL	SAME
RUNWAY MARKING TYPE (P, NP, NONE)	NPI	NPI
RUNWAY VISUAL APPROACH AIDS	ODALS, VASI	SAME
RUNWAY LANDING AIDS	NDB/DME, RWY (GPS)	SAME

TAXIWAY DATA		
ITEM	EXISTING	
	EXISTING	ULTIMATE
TAXIWAY DESIGN GROUP	2	2
TAXIWAY DIMENSIONS	35' x 1,070'	35' x 1,070'
TAXIWAY SAFETY AREA WIDTH	80'	SAME
TAXIWAY OFA	131'	SAME
TAXIWAY SHOULDERS	20'	15'
TAXIWAY EDGE SAFETY MARGIN	7.5'	SAME
TAXIWAY EDGE LIGHTING	MITL	SAME

DESIGN REH  
DRAWN REH  
CHECKED CML

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
NORTHERN REGION-AVIATION  
APPROVED: *Albert M.L. Beck* DATE 12/16/2020  
ALBERT M.L. BECK, P.E. PROJECT DELIVERY LEAD

BY	DATE	REVISIONS	FAA

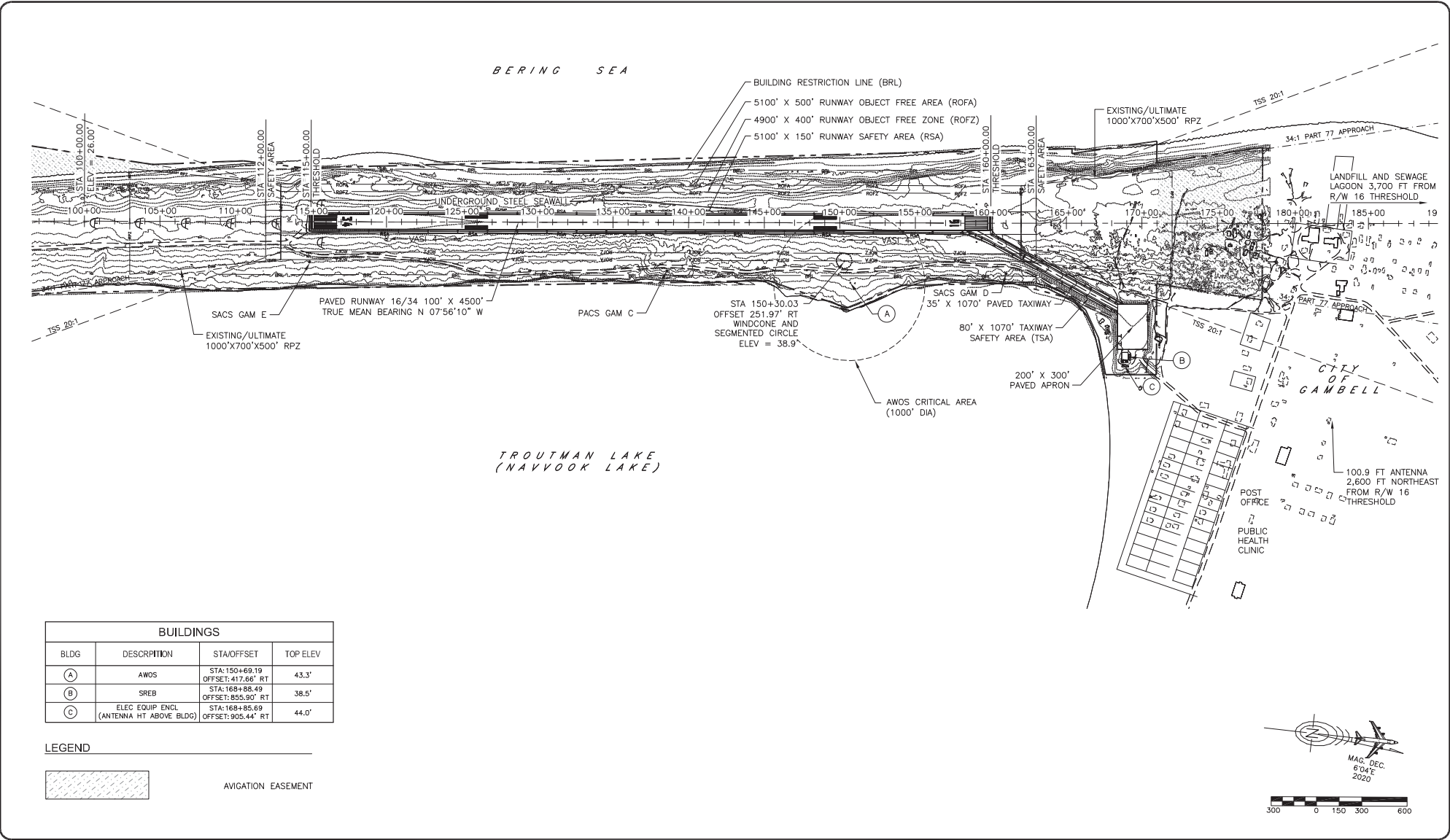
BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT  
GAMBELL, ALASKA  
AIRPORT DATA

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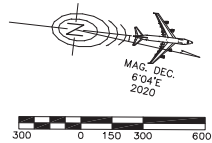
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BUILDINGS			
BLDG	DESCRIPTION	STA/OFFSET	TOP ELEV
(A)	AWOS	STA: 150+69.19 OFFSET: 417.66' RT	43.3'
(B)	SREB	STA: 168+88.49 OFFSET: 955.90' RT	38.5'
(C)	ELEC EQUIP ENCL (ANTENNA HT ABOVE BLDG)	STA: 168+85.69 OFFSET: 905.44' RT	44.0'

LEGEND

	AVIGATION EASEMENT
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DESIGN	REH
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CHECKED	CML

**STATE OF ALASKA**  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
NORTHERN REGION-AVIATION

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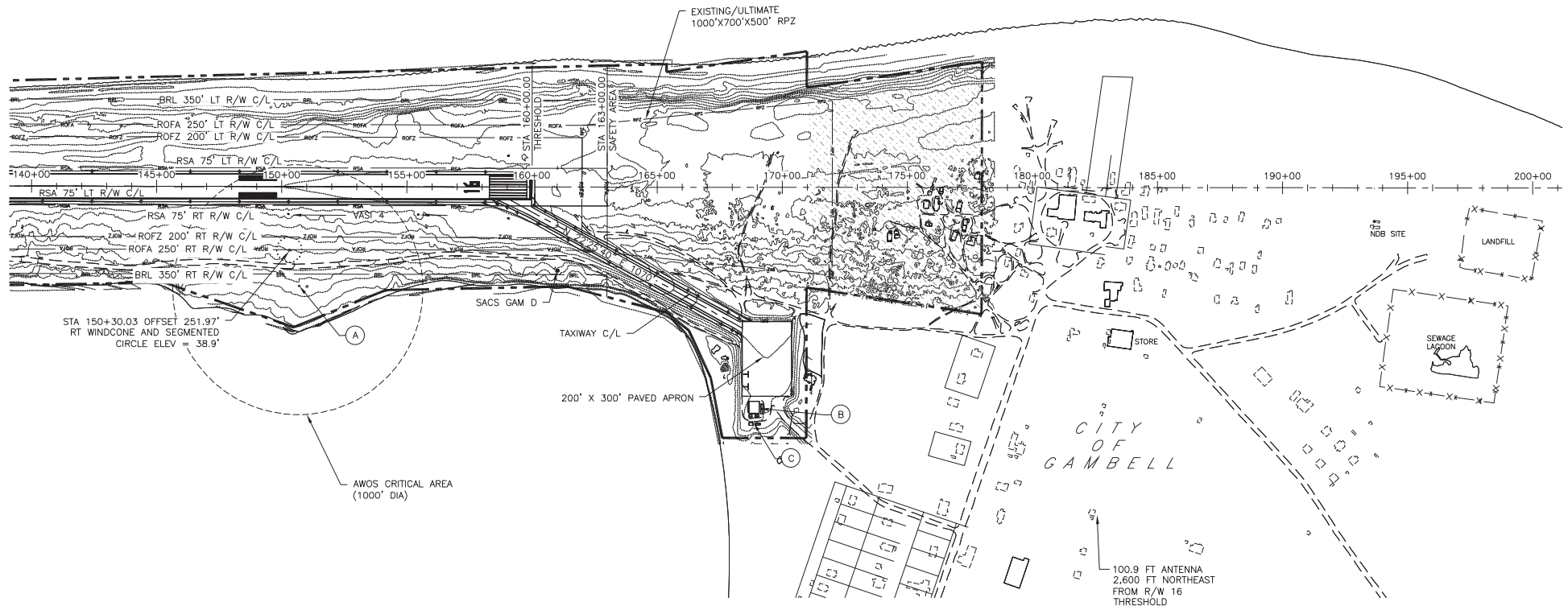
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BY	DATE	REVISIONS	FAA

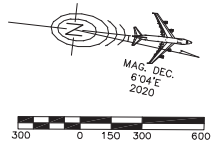
**GAMBELL AIRPORT**  
GAMBELL, ALASKA  
EXISTING/ULTIMATE  
AIRPORT LAYOUT PLAN

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BUILDINGS			
BLDG	DESCRIPTION	STA/OFFSET	TOP ELEV
(A)	AWOS	STA: 150+69.19 OFFSET: 417.66' RT	43.3'
(B)	SREB	STA: 168+88.49 OFFSET: 855.90' RT	38.5'
(C)	ELEC EQUIP ENCL (ANTENNA HT ABOVE BLDG)	STA: 168+85.69 OFFSET: 905.44' RT	44.0'



DESIGN REH  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
NORTHERN REGION-AVIATION

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ALBERT M.L. BECK, P.E. PROJECT DELIVERY LEAD

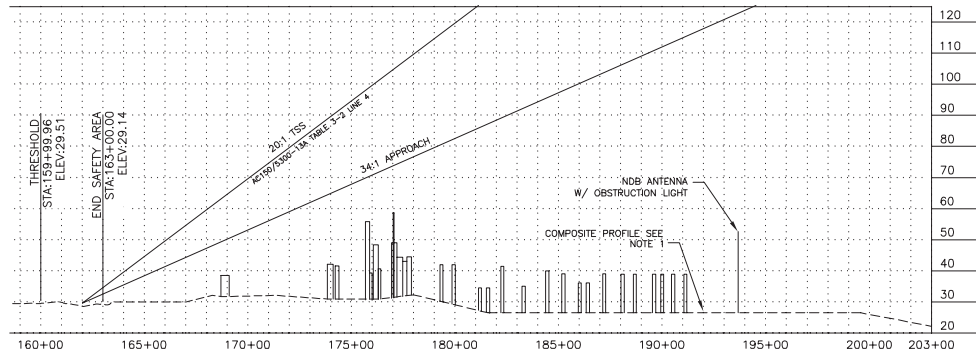
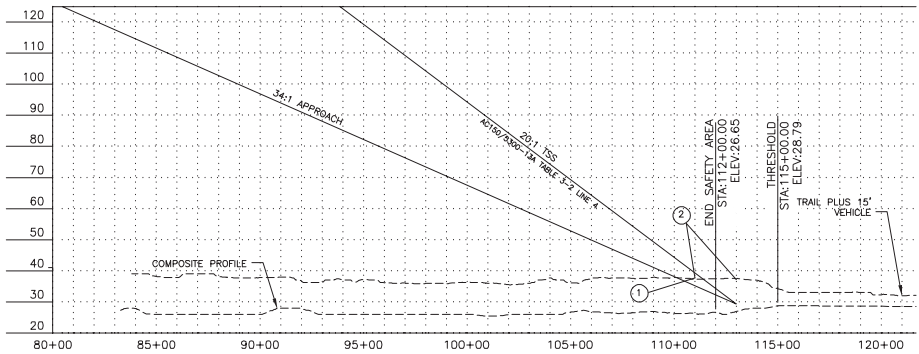
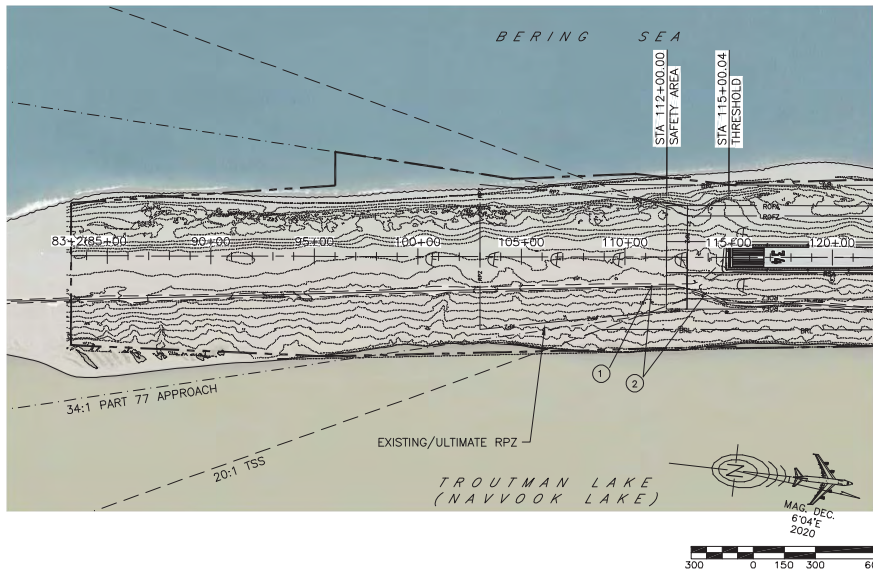
BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

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GAMBELL AIRPORT  
GAMBELL, ALASKA  
EXISTING/ULTIMATE  
TERMINAL PLAN

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6



**GENERAL NOTES:**

1. COMPOSITE PROFILE IS BASED OFF OF JUNE 2019 SURVEY FROM THRESHOLD AT STA 160+00 TO STA 178+00. BEYOND STA 178+00 PROFILE DATA IS EXTRAPOLATED FROM PREVIOUS ALP DATE 11/7/01. NDB ANTENNA LOCATION AND ELEVATION IS BASED ON SURVEY IN JUNE 2019 BY LOUNSBURY & ASSOCIATES INC.

OBSTRUCTION TABLE						
ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE ELEVATION	SURFACE PENETRATED	DISPOSITION
1	TRAIL +15	111+00/127.6'RT	37.6	35.2	APPROACH	RELOCATE
2	TRAIL + 15	111+00 TO 113+00/126'RT	37.7	27.7	TSS	RELOCATE

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STATE OF ALASKA  
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NORTHERN REGION-AVIATION  
APPROVED: *Albert M.L. Beck* DATE 12/16/2020  
ALBERT M.L. BECK, P.E. PROJECT DELIVERY LEAD

BY	DATE	REVISIONS	FAA

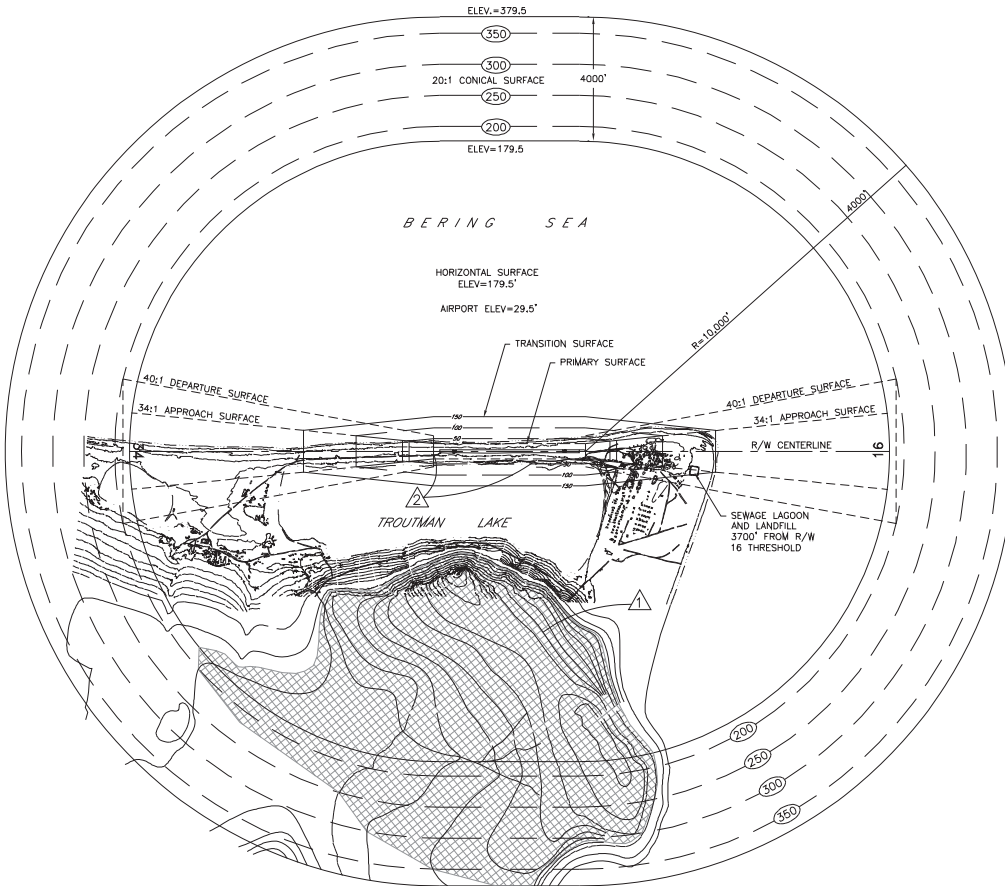
BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT  
GAMBELL, ALASKA  
EXISTING/ULTIMATE  
INNER PORTION OF APPROACH SURFACE

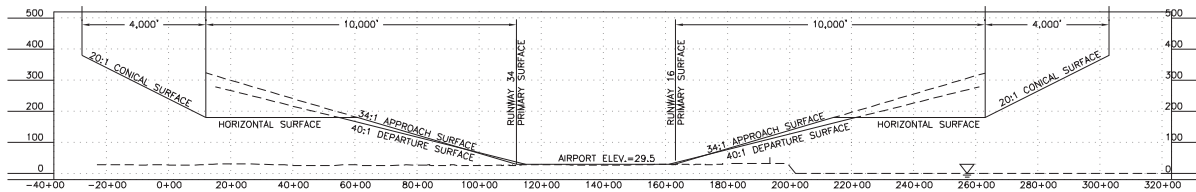
SHEET 5 OF 6

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AIRCSPACE PLAN



AIRCSPACE PROFILE

ULTIMATE RUNWAY F.A.R. PART 77 DIMENSIONS OTHER THAN UTILITY, NPI, > 1 S.M.	
DESCRIPTION	DIMENSION
ESTABLISHED AIRPORT ELEVATION	TERRAIN
RUNWAY THRESHOLD ELEVATION	RW34 28.79' / RW16 29.51'
PRIMARY SURFACE	500' X 4,900'
HORIZONTAL SURFACE ELEVATION	179.5'
HORIZONTAL SURFACE RADIUS	10,000'
APPROACH SURFACE	500' X 10,000' X 3,500'
APPROACH SURFACE SLOPE	34:1
CONICAL SURFACE WIDTH	4,000'
TRANSITIONAL SURFACE SLOPE	7:1

OBSTRUCTION TABLE					
ID#	DESCRIPTION	ELEVATION	SURFACE ELEVATION	SURFACE PENETRATED	DISPOSITION
1	TERRAIN	179+	VARIES	HORIZONTAL AND CONICAL SURFACES	WAIVER
2	TRAIL + 15'	VARIES	VARIES	TRANSITION, APPROACH, DEPARTURE SURFACES	RELOCATE

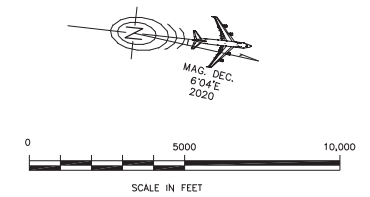
LEGEND



FAR PART 77 PENETRATION



OBSTRUCTION ID



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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
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BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT  
GAMBELL, ALASKA  
AIRPORT AIRSPACE  
(FAR PART 77)

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