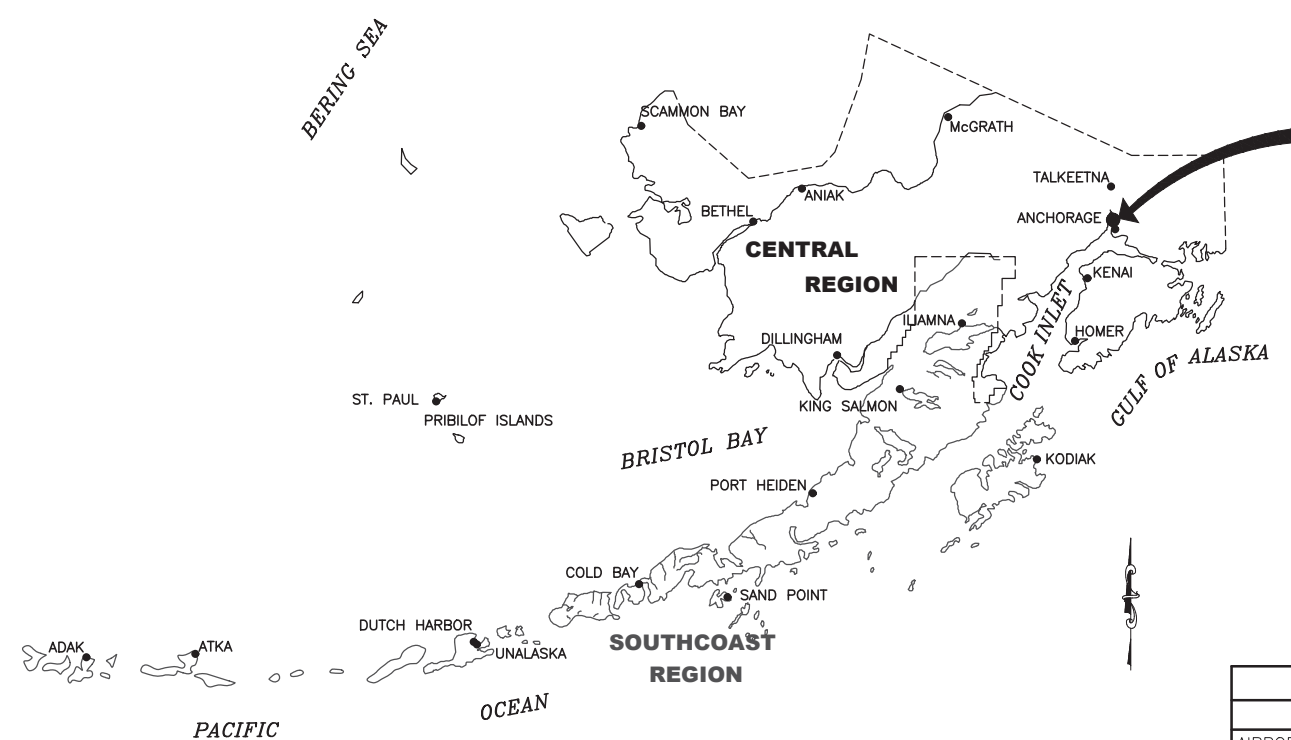


**Appendix E**  
**Airport Layout Plan**

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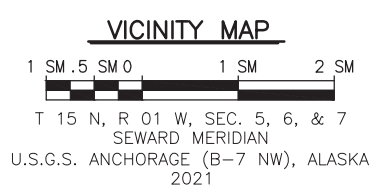
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 Designed By: TSA  
 Drawn By: TLC  
 Checked By: MRS



**BIRCHWOOD AIRPORT**

# BIRCHWOOD AIRPORT AIRPORT LAYOUT PLAN

## BIRCHWOOD, ALASKA



ITEM	LEGEND	
	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (A.R.P.)		
ANTENNA		
APPROACH SURFACE		
AVIGATION & HAZARD EASEMENT		
BUILDINGS		
BUILDING RESTRICTION LINE		
DEPARTURE SURFACE		
FAA WEATHER STATION		
FENCE		
PAPI		
PROPERTY LINE		
REIL		
ROAD, RUNWAY, TAXIWAY GRAVEL EDGE		
ROAD, RUNWAY, TAXIWAY PAVEMENT EDGE		
ROTATING BEACON		
RUNWAY OBJECT FREE AREA		
RUNWAY OBSTACLE FREE ZONE		
RUNWAY PROTECTION ZONE		
RUNWAY SAFETY AREA		
SEGMENTED CIRCLE		
SHORELINE		
SURVEY MONUMENT		
THRESHOLD SITING SURFACE		
TIE-DOWN		
TOPOGRAPHIC CONTOURS		
UTILITY TOWER		
TREELINE		
UTILITY POLE		
VASI		NONE
WIND CONE		

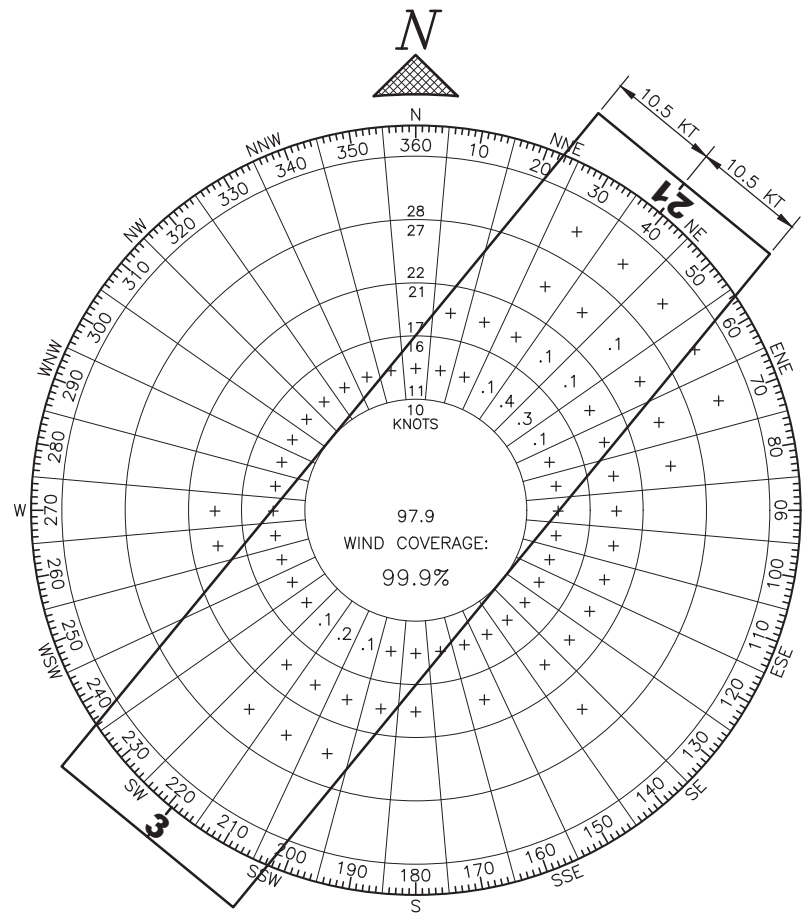
DRAWING INDEX		
SHEET NUMBER	SHEET TITLE	REV.
1	COVER	
2	AIRPORT DATA	
3	WIND ROSE	
4	EXISTING LAYOUT PLAN	
5	ULTIMATE LAYOUT PLAN	
6	EXISTING & ULTIMATE RUNWAY PROFILES	
7	EXISTING RUNWAY 2L-20R INNER PORTION OF APPROACH SURFACE	
8	EXISTING RUNWAY 2R-20L INNER PORTION OF APPROACH SURFACE	
9	EXISTING INNER APPROACH OBSTRUCTION TABLES	
10	ULTIMATE RUNWAY 3-21 INNER APPROACH DRAWING	
11	ULTIMATE RUNWAY 3G-21G INNER APPROACH DRAWING	
12	ULTIMATE INNER APPROACH OBSTRUCTION TABLES	
13	PART 77 AIRSPACE DRAWING	
14	AIRPORT PROPERTY MAP	
15	LAND USE MAP	
16	TERMINAL AREA PLAN	

APPROVED: _____ DATE: _____ RECOMMENDED: _____ DATE: _____ _____ DATE: _____	<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b>	DATE: 9/05/2024 SHEET: 1 OF 16	
		<b>LUKE BOWLAND, P.E.</b> PRECONSTRUCTION ENGINEER <b>STEVEN RZEPKA, P.E.</b> AVIATION DESIGN GROUP CHIEF	<b>BIRCHWOOD AIRPORT</b> BIRCHWOOD, ALASKA AIRPORT LAYOUT PLAN
		AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED ____/____/____ FAA AIRSPACE REVIEW NUMBER: _____ _____ DATE: _____ <b>FAA, AIRPORTS DIVISION ALASKAN REGION</b>	COVER

BY \_\_\_\_\_ DATE \_\_\_\_\_ REVISION \_\_\_\_\_



Date Plotted: 9/05/2024, 10:31 AM  
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 Designed By: TSA  
 Drawn By: TJC  
 Checked By: MRS

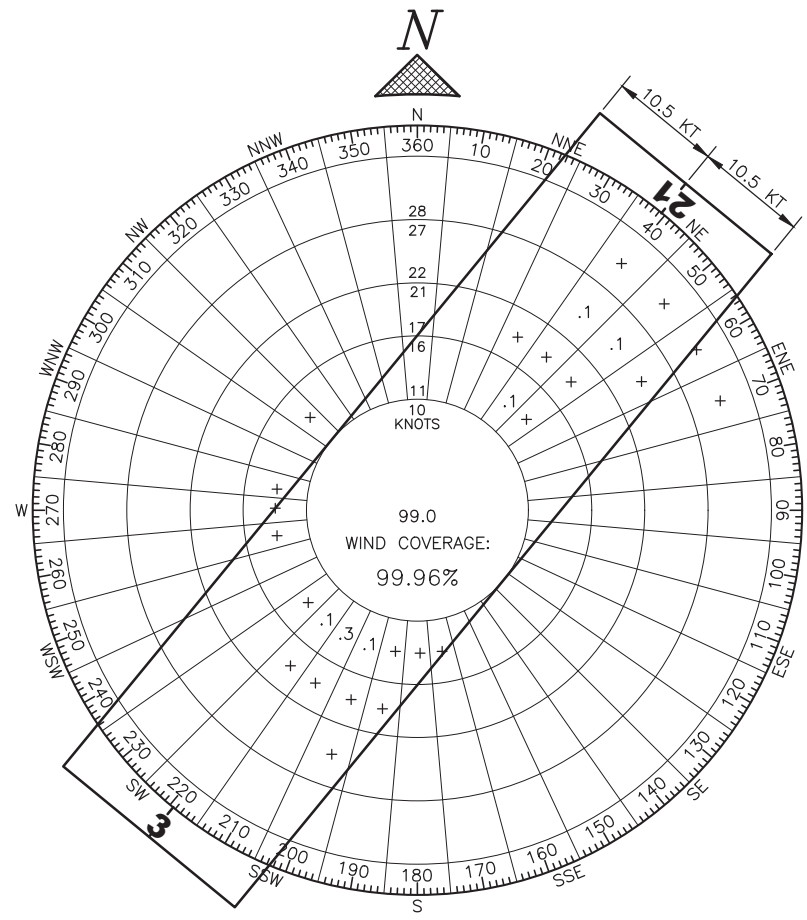


### WIND DATA

NOTE: WIND SPEED IS INDICATED IN KNOTS.

ALL WEATHER WIND DATA	
RUNWAY	10.5 KT
RW 3/21	99.90%

SOURCE: NOAA INTEGRATED SURFACE DATABASE  
 BIRCHWOOD AIRPORT PABV  
 PERIOD: 2013-2022

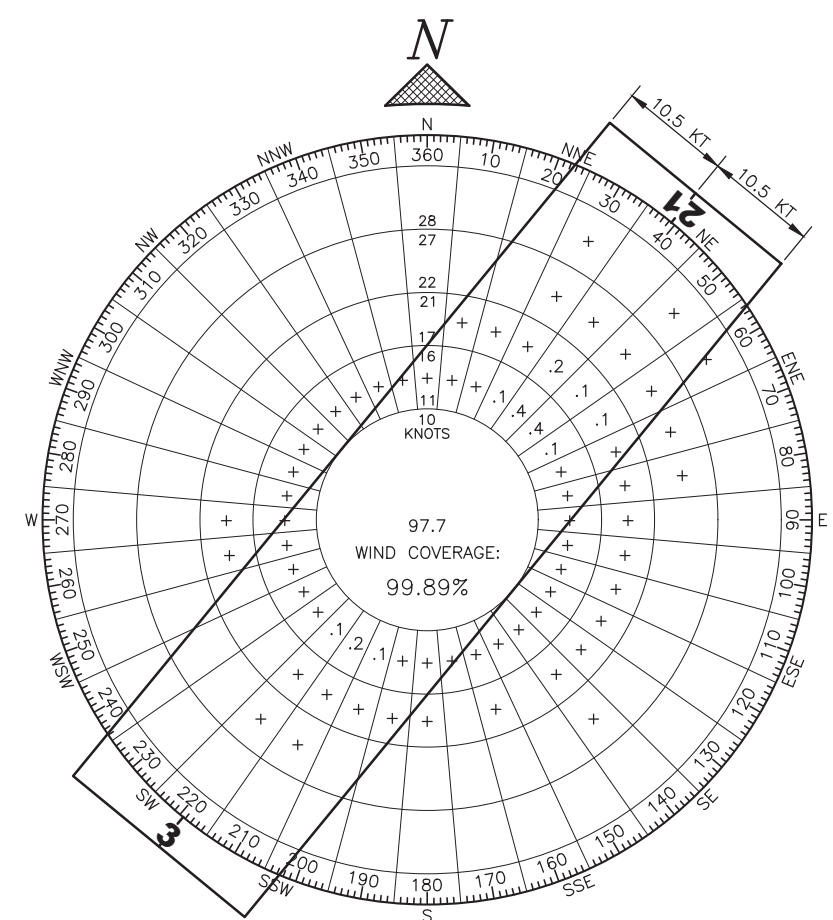


### WIND DATA

NOTE: WIND SPEED IS INDICATED IN KNOTS.

IFR WIND DATA	
RUNWAY	10.5 KT
RW 3/21	99.96%

SOURCE: NOAA INTEGRATED SURFACE DATABASE  
 BIRCHWOOD AIRPORT PABV  
 PERIOD: 2013-2022



### WIND DATA

NOTE: WIND SPEED IS INDICATED IN KNOTS.

VFR WIND DATA	
RUNWAY	10.5 KT
RW 3/21	99.89%

SOURCE: NOAA INTEGRATED SURFACE DATABASE  
 BIRCHWOOD AIRPORT PABV  
 PERIOD: 2013-2022

BY	DATE	REVISION

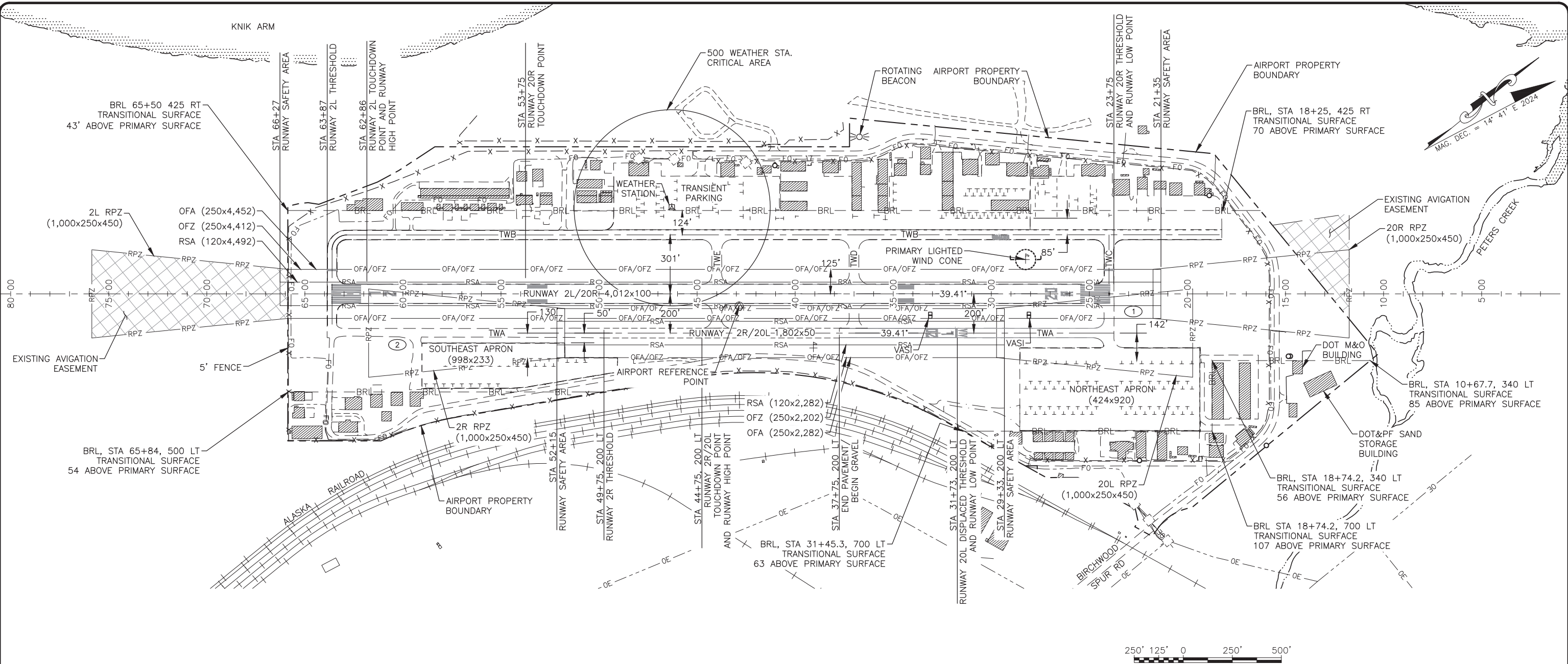
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**BIRCHWOOD AIRPORT**  
 BIRCHWOOD, ALASKA  
 AIRPORT LAYOUT PLAN

WIND ROSE

DATE: 9/05/2024  
 SHEET: 3 OF 16

Date Plotted: 9/05/2024, 10:31 AM  
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 File Name: H:\Jobs\20-014 Birchwood Airport MP (001-09)\Cadd\Drawings\ALP-BCV-Existing\_ALP.dwg  
 Designed By: TSA  
 Drawn By: TJC  
 Checked By: MRS



**NOTES:**

1. SEE INNER APPROACH SHEETS FOR AC 150/5300-13B AND PART 77 APPROACH SURFACES.
2. NO OFA OR OFZ PENETRATIONS.
3. THE INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY COMPLETED BY HDL ENGINEERING CONSULTANTS, LLC., FROM JULY 13 THROUGH OCTOBER 01, 2020.
4. SEE SHEET 2 FOR AIRPORT CONTROL STATION INFORMATION.
5. SEE SHEET 6 FOR ELEVATIONS AT RUNWAY STATIONS.

BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**BIRCHWOOD AIRPORT**  
 BIRCHWOOD, ALASKA  
 AIRPORT LAYOUT PLAN  
 EXISTING LAYOUT PLAN

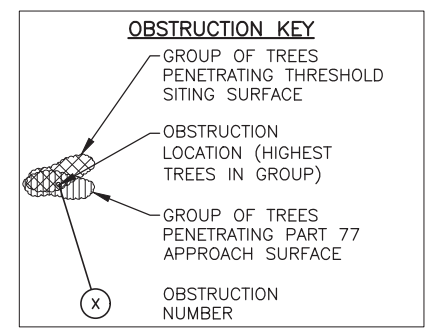
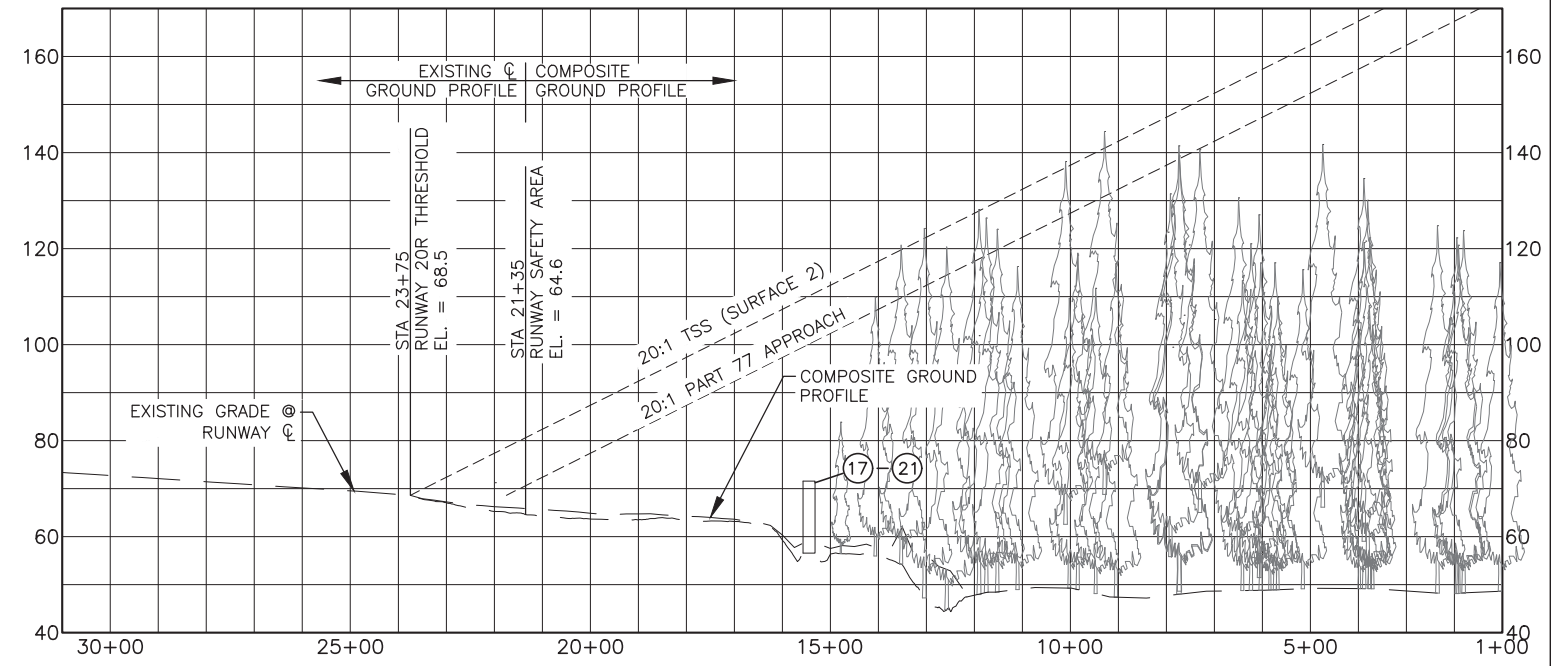
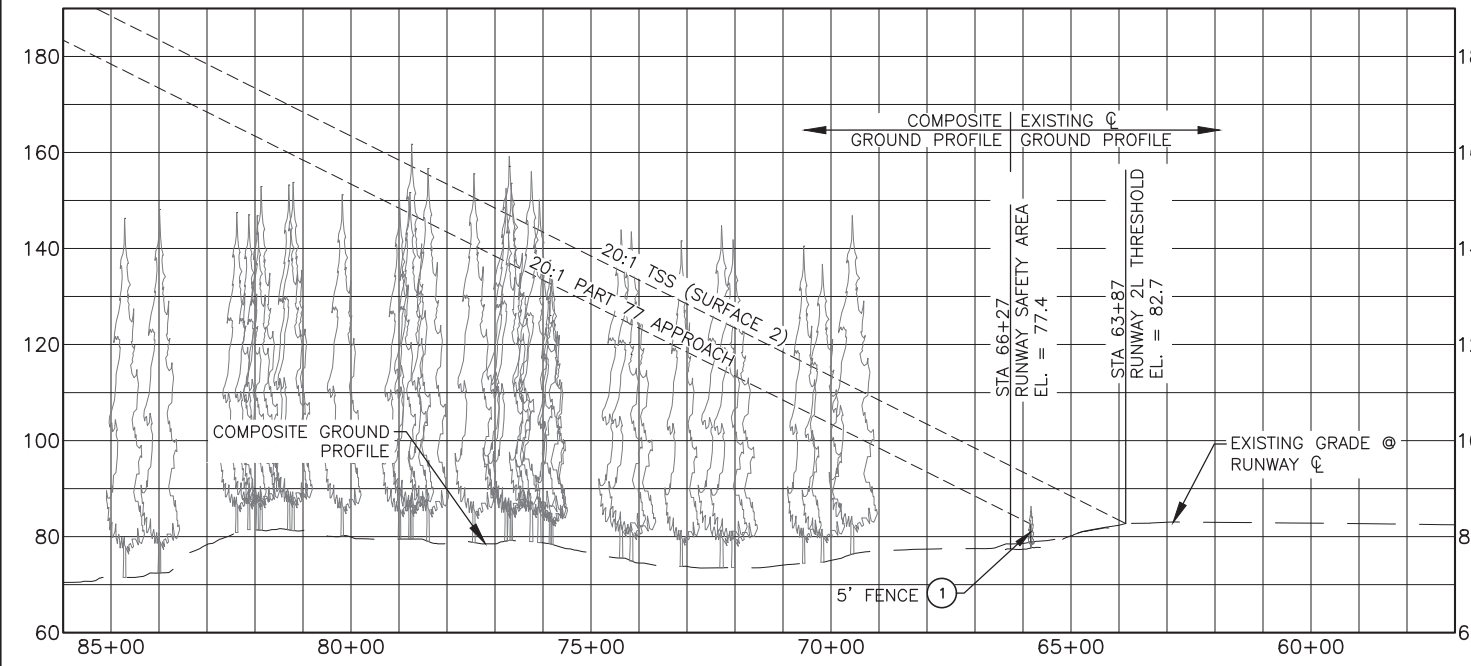
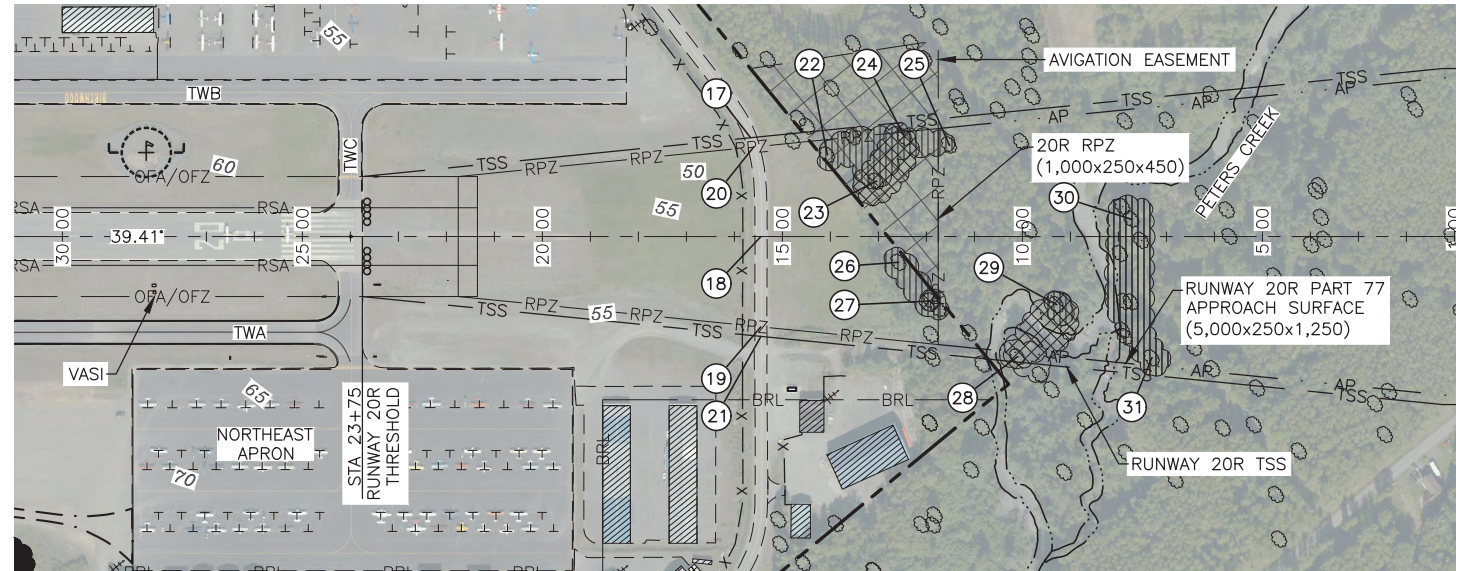
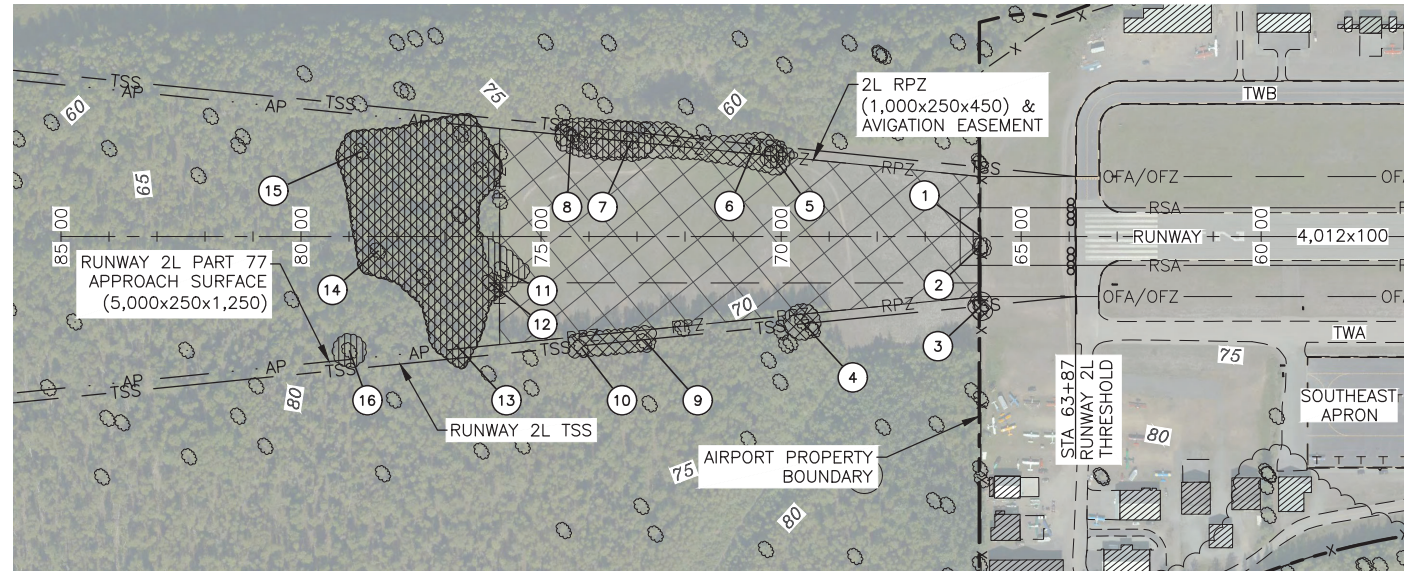
DATE: 9/05/2024	SHEET: 4
OF 16	



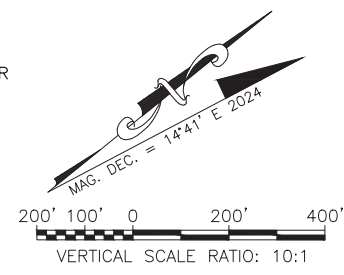




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 Designed By: EJC  
 Drawn By: TLC  
 Checked By: MRS



- NOTES:**
- SEE SHEET 9 FOR OBSTRUCTION TABLES.
  - THRESHOLD SITING SURFACE (TSS) CRITERIA FOR RW 2L/20R IS DEFINED PER AC150/5300-13B, TABLE 3-2, SURFACE 2, EXPECTED TO ACCOMMODATE VISUAL APPROACH DAY OR NIGHT.
  - PART 77 APPROACH SLOPES ARE 20:1.
  - REFER TO THE AIRPORT AIRSPACE DRAWING FOR OUTER APPROACH SURFACE PENETRATIONS.



BY	DATE	REVISION

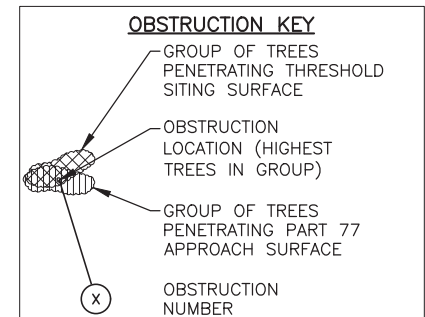
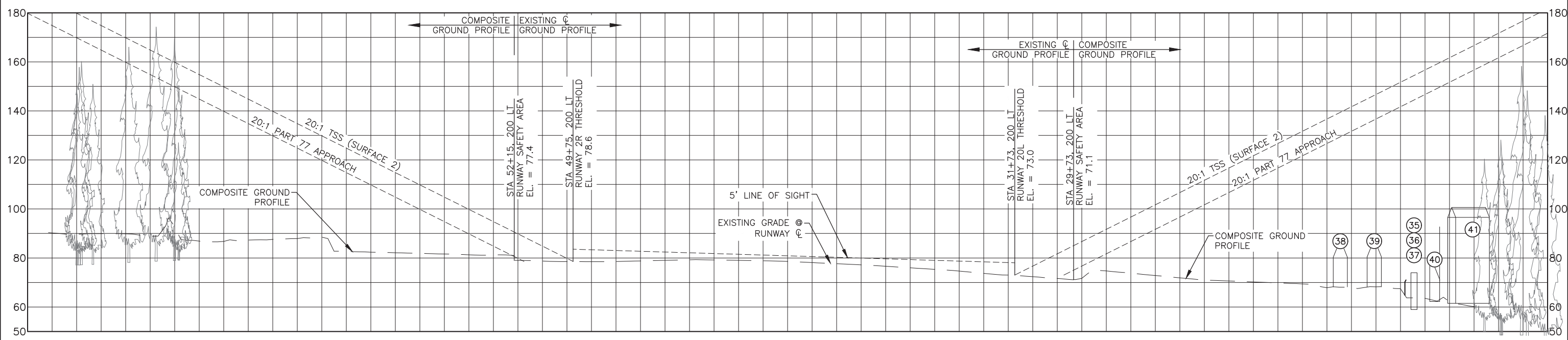
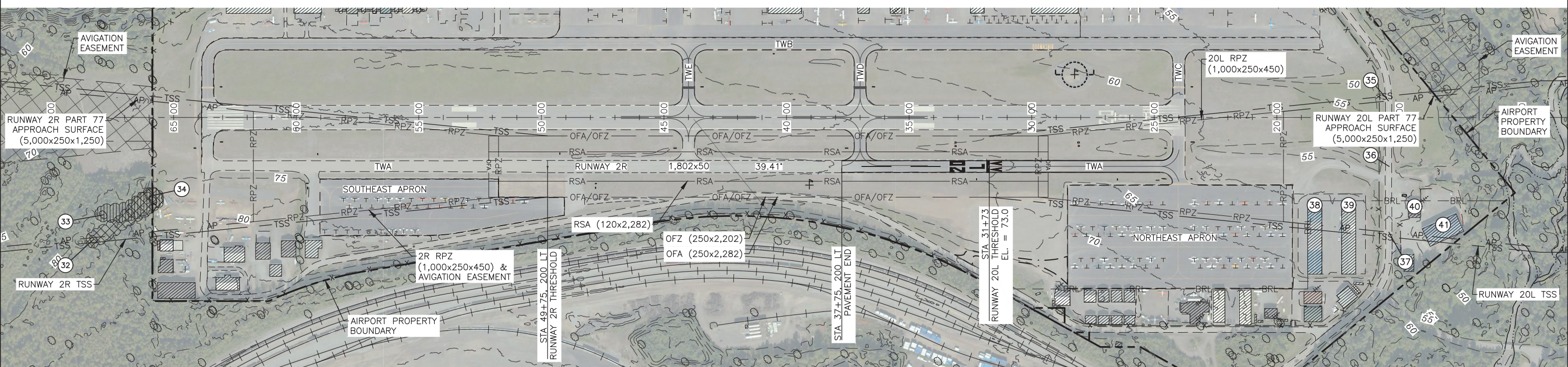
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**BIRCHWOOD AIRPORT**  
 BIRCHWOOD, ALASKA  
 AIRPORT LAYOUT PLAN

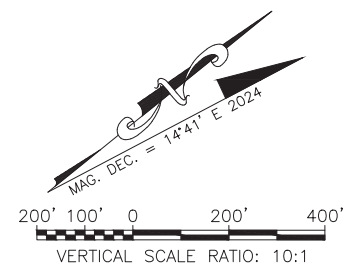
EXISTING RUNWAY 2L-20R  
 INNER APPROACH DRAWING

DATE: 9/05/2024  
 SHEET: 7 OF 16

Date: 9/05/2024, 10:17 AM  
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 Designed By: TSA  
 Drawn By: TIC  
 Checked By: MRS



- NOTES:**
1. SEE SHEET 9 FOR OBSTRUCTION TABLES.
  2. THRESHOLD SITING SURFACE (TSS) CRITERIA FOR RW 2R/20L IS DEFINED PER AC150/5300-13B, TABLE 3-2, SURFACE EXPECTED TO ACCOMMODATE VISUAL APPROACH DAY OR NIGHT.
  3. PART 77 APPROACH SLOPES ARE ESTABLISHED AT 20:1.
  4. REFER TO THE AIRPORT AIRSPACE DRAWING FOR OUTER APPROACH SURFACE PENETRATIONS.
  5. THERE ARE NO TSS OR PART 77 OBSTRUCTIONS TO RUNWAY 20L APPROACH.



BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**BIRCHWOOD AIRPORT**  
 BIRCHWOOD, ALASKA  
 AIRPORT LAYOUT PLAN

EXISTING RUNWAY 02R-20L  
 INNER APPROACH DRAWING

DATE: 9/05/2024  
 SHEET: 8 OF 16







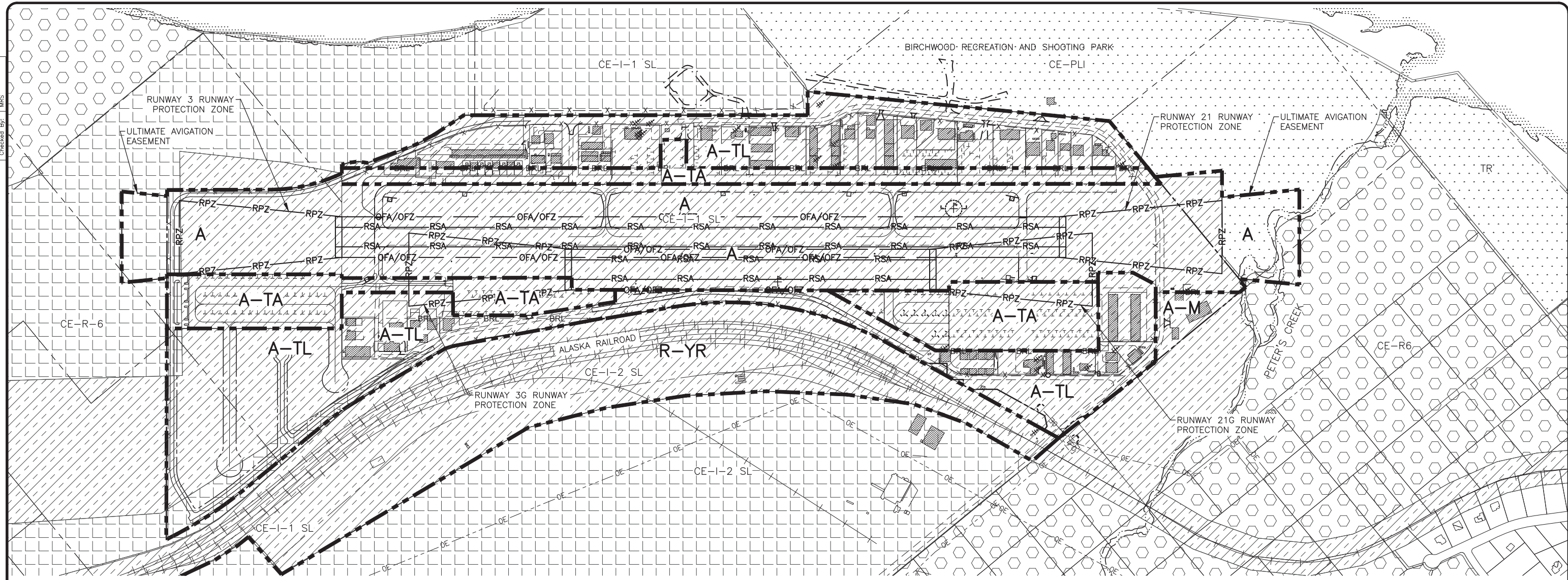








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 Drawn By: TLC  
 Checked By: MRS

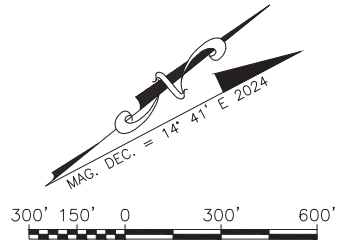


**LEGEND**

- AIRPORT LAND USE**
- AIRPORT LAND USE BOUNDARY
  - A** AVIATION USE
  - A-TA** AIRPORT TERMINAL AREA, AIRSIDE
  - A-TL** AIRPORT TERMINAL AREA, LANDSIDE
  - A-M** AIRPORT MAINTENANCE AND SUPPORT
  - R-YR** ALASKA RAILROAD RAIL YARD RESERVE

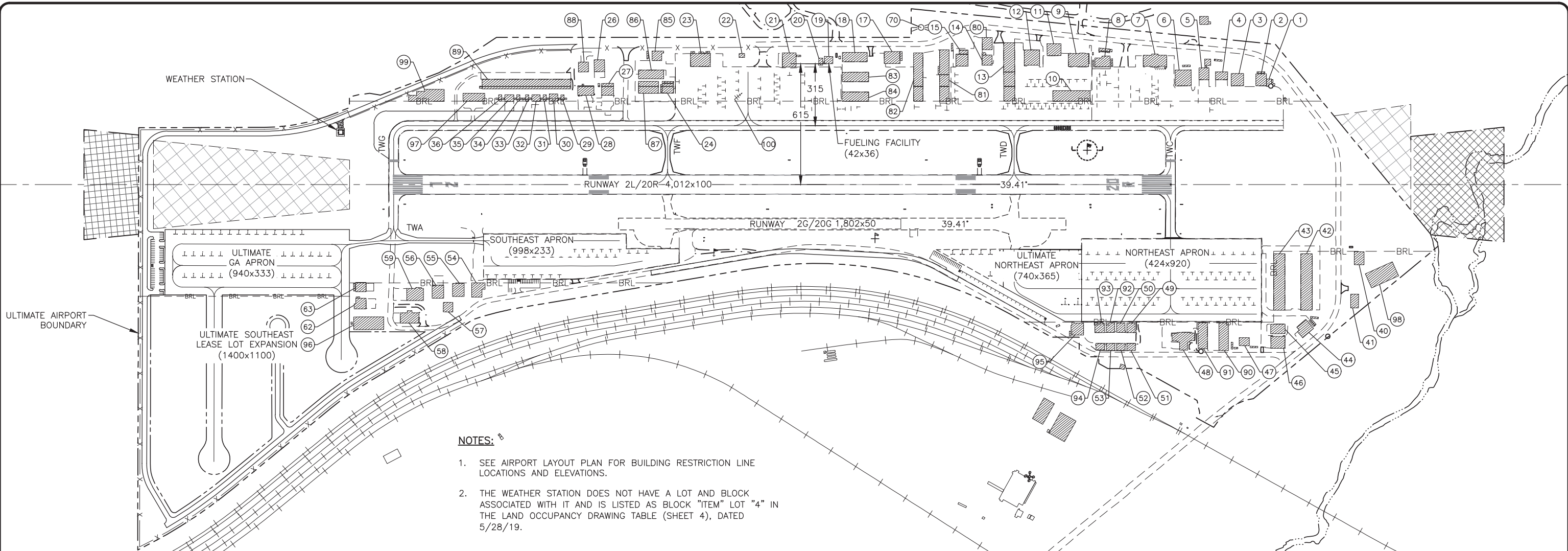
- ZONING**
- CE-I-1 SL LIGHT INDUSTRIAL, SPECIAL LIMITATIONS
  - CE-I-2 SL HEAVY INDUSTRIAL, SPECIAL LIMITATIONS
  - CE-PLI PUBLIC LANDS AND INSTITUTIONS
  - TR TRANSITION
  - CE-R6 LOW DENSITY RESIDENTIAL

- LAND USE CLASSIFICATION**
- TRANSPORTATION
  - INDUSTRIAL
  - RESIDENTIAL
  - PARK & NATURAL RESOURCE



<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b>																																		
<b>BIRCHWOOD AIRPORT</b> BIRCHWOOD, ALASKA AIRPORT LAYOUT PLAN LAND USE MAP	DATE: 9/05/2024 SHEET: 15 OF 16																																	
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BY	DATE	REVISION																																

Date Plotted: 9/05/2024, 2:05 PM  
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 Designed By: TSA  
 Drawn By: TJC  
 Checked By: MRS



- NOTES:**
- SEE AIRPORT LAYOUT PLAN FOR BUILDING RESTRICTION LINE LOCATIONS AND ELEVATIONS.
  - THE WEATHER STATION DOES NOT HAVE A LOT AND BLOCK ASSOCIATED WITH IT AND IS LISTED AS BLOCK "ITEM" LOT "4" IN THE LAND OCCUPANCY DRAWING TABLE (SHEET 4), DATED 5/28/19.

TERMINAL AREA BUILDING TABLE								
NO.	DESCRIPTION	TOP ELEV.	LOT	BLOCK	OBSTRUCTION MARKING	STATION	OFFSET	COMMENT
1	BUILDING	67	1C	500	NONE	18+85	500 LT	
2	HANGAR	75	1C	500	NONE	19+15	501 LT	
3	HANGAR	85	1B	500	NONE	20+28	503 LT	
4	HANGAR	78	2D	500	NONE	21+08	534 LT	
5	HANGAR	80	2E	500	NONE	22+04	534 LT	
6	HANGAR	85	2F	500	NONE	22+94	503 LT	
7	HANGAR	89	2B	500	NONE	24+19	602 LT	
8	HANGAR	85	3	500	NONE	27+08	587 LT	
9	HANGAR	87	4C	500	NONE	28+17	601 LT	
10	T-HANGARS	83	4B	500	NONE	28+10	425 LT	
11	HANGAR	82	4D	500	NONE	29+67	657 LT	
12	HANGAR	90	5D	500	NONE	30+67	608 LT	
13	T-HANGARS	83	5B	500	NONE	31+97	425 LT	
14	HANGAR	83	6A	500	NONE	33+11	608 LT	
15	HANGAR	92	6B	500	NONE	34+32	602 LT	
17	BUILDING	99	8A	500	NONE	37+79	616 LT	
18	T-HANGARS	91	8B	500	NONE	39+43	625 LT	
19	HANGAR	90	9	500	NONE	41+20	615 LT	
20	BUILDING	87	9	500	NONE	41+73	608 LT	
21	HANGAR	99	10	500	NONE	43+09	599 LT	
22	PILOT SHELTER	86	5	600	NONE	45+71	646 LT	
23	C.A.P. HANGAR	91	4B	600	NONE	47+47	601 LT	
24	HANGAR	98	3B	600	NONE	49+59	465 LT	
26	HANGAR	101	1E	600	NONE	52+10	574 LT	
27	HANGAR	106	1G	600	NONE	52+39	455 LT	
28	HANGAR	105	1F	600	NONE	53+43	455 LT	
29	SINGLE T-HANGAR	88	1	700	NONE	54+79	432 LT	
30	HANGAR	89	2	700	NONE	55+24	432 LT	
31	SINGLE T-HANGAR	88	3	700	NONE	55+69	432 LT	
32	HANGAR	88	4	700	NONE	56+15	425 LT	
33	SINGLE T-HANGAR	88	5	700	NONE	56+58	433 LT	

TERMINAL AREA BUILDING TABLE								
NO.	DESCRIPTION	TOP ELEV.	LOT	BLOCK	OBSTRUCTION MARKING	STATION	OFFSET	COMMENT
34	SINGLE T-HANGAR	88	6	700	NONE	57+03	432 LT	
35	HANGAR	89	7A	700	NONE	57+49	433 LT	
36	SINGLE T-HANGAR	89	8A	700	NONE	57+96	432 LT	
40	DOT M&O BUILDING	81	1	100	NONE	14+13	409 RT	
41	SNOW REMOVAL EQUIPMENT BUILDING	88	-	100	NONE	14+41	559 RT	
42	T-HANGARS	87	23A	100	NONE	16+78	353 RT	
43	T-HANGARS	87	23A	100	NONE	18+17	353 RT	
44	HANGAR	100	23B	100	NONE	17+10	687 RT	
45	HANGAR	96	23B	100	NONE	18+16	712 RT	
46	HANGAR	101	23B	100	NONE	18+16	774 RT	
47	HANGAR	97	17	100	NONE	19+99	781 RT	
48	HANGAR	99	19A	100	NONE	22+77	758 RT	
49	HANGAR	102	21A	100	NONE	25+80	705 RT	
50	HANGAR	102	21A	100	NONE	26+33	705 RT	
51	HANGAR	103	21A	100	NONE	25+79	810 RT	
52	HANGAR	104	21A	100	NONE	26+32	810 RT	
53	HANGAR	104	21A	100	NONE	26+85	810 RT	
54	HANGAR	107	4B	100	NONE	58+95	501 RT	
55	HANGAR	117	3A	100	NONE	60+02	503 RT	
56	HANGAR	117	3A	100	NONE	61+06	512 RT	
57	HANGAR	114	3A	100	NONE	60+59	601 RT	
58	HANGAR	119	2B	100	NONE	62+32	653 RT	
59	HANGAR	117	2C	100	NONE	62+10	529 RT	
62	HANGAR	117	1E	100	NONE	65+04	567 RT	
63	HANGAR	107	1E	100	NONE	65+04	502 RT	
70	ROTATING BEACON	178	-	500	YES	36+68	799 RT	
80	HANGAR	85	6A	500	NONE	33+11	687 RT	
81	T-HANGARS	96	7A	500	NONE	35+31	425 LT	
82	T-HANGARS	92	7A	500	NONE	36+62	425 LT	
83	T-HANGARS	94	8B	500	NONE	39+41	525 LT	

TERMINAL AREA BUILDING TABLE								
NO.	DESCRIPTION	TOP ELEV.	LOT	BLOCK	OBSTRUCTION MARKING	STATION	OFFSET	COMMENT
84	T-HANGARS	94	8B	500	NONE	39+39	425 LT	
85	HANGAR	96	3A	600	NONE	49+95	631 LT	
86	HANGARS	96	3A-1	600	NONE	49+88	538 LT	
87	HANGAR	99	3B	600	NONE	50+13	464 LT	
88	HANGAR	92	1D	600	NONE	53+66	574 LT	
89	HANGARS	98	13	700	NONE	54+56	486 LT	
90	HANGAR	102	18A	100	NONE	21+04	705 RT	
91	HANGAR	99	18A	100	NONE	21+99	705 RT	
92	HANGAR	105	21A	100	NONE	26+85	705 RT	
93	HANGAR	99	21A	100	NONE	27+39	706 RT	
94	HANGAR	108	21A	100	NONE	27+37	810 RT	
95	HANGAR	102	21A	100	NONE	28+45	706 RT	
96	HANGAR	120	1F	100	NONE	64+29	677 RT	
97	HANGAR	101	14	700	NONE	58+98	425 RT	
98	SAND STORAGE	101	-	100	NONE	12+53	428 RT	
99	BUILDING	101	15	700	NONE	61+90	454 LT	
100	WEATHER STATION	100	ITEM	4	NONE	46+36	437 LT	

**LEGEND**

- EXISTING AVIGATION EASEMENT
- EXISTING AVIGATION EASEMENT
- ULTIMATE AVIGATION EASEMENT

MAG. DEC. = 14°41' E 2024

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION		DATE: 9/05/2024
BIRCHWOOD AIRPORT BIRCHWOOD, ALASKA AIRPORT LAYOUT PLAN		SHEET: 16 OF 16
BY	DATE	REVISION