



U.S. Department
of Transportation

**Federal Aviation
Administration**

Alaskan Region Airports Division

222 W. 7th Avenue, Box 14
Anchorage, Alaska 99513-7587
Tel. (907) 271-5438
Fax (907) 271-2851

December 17, 2019

Luke Bowland, P.E.
Central Region Aviation Design Section Chief
Department of Transportation and Public
Facilities, State of Alaska
4111 Aviation Avenue
PO Box 196900
Anchorage, AK 99519

Dear Mr. Bowland,

Togiak Airport, Togiak Village, Alaska
Airport Layout Plan Conditional Approval
Airspace Case No. 2018-AAL-25-NRA

The Togiak Airport Layout Plan (ALP), prepared by State of Alaska DOT&PF, and bearing your signature, is conditionally approved. A signed copy of the approved ALP is enclosed.

An aeronautical study (no. 2018-AAL-25-NRA) was conducted on the proposed development. This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

The FAA Reauthorization Act of 2018, Section 163(d), has limited the FAA's review and approval authority for ALPs. This approval is based on and limited to those portions of the ALP that:

- a. Materially impact the safe and efficient operation of aircraft at, to, or from the airport;
- b. Adversely affect the safety of people or property on the ground adjacent to the airport as a result of aircraft operations; or
- c. Adversely affect the value of prior Federal investments to a significant extent.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA) and known natural objects within the affected area would have on the airport proposal.

The FAA has only limited means to prevent the construction of structures near an airport. The airport sponsor has the primary responsibility to protect the airport environs through such means as local zoning ordinances, property acquisition, aviation easements, letters of agreement or other means.

This ALP approval is conditioned on acknowledgement that any development on airport property requiring Federal environmental approval must receive such written approval from FAA prior to commencement of the subject development. This ALP approval is also conditioned on acceptance of the plan under local land use laws. We encourage appropriate agencies to adopt land use and height restrictive zoning based on the plan.

Approval of the plan does not indicate that the United States will participate in the cost of any development proposed. AIP funding requires evidence of eligibility and justification at the time a funding request is ripe for consideration.

When construction of any proposed structure or development indicated on the plan is undertaken, such construction requires normal 45-day advance notification to FAA for review in accordance with applicable Federal Aviation Regulations (i.e., Parts 77, 157, 152, etc.). More notice is generally beneficial to ensure that all statutory, regulatory, technical and operational issues can be addressed in a timely manner.

Please attach this letter to the Airport Layout Plan and retain it in your files. We look forward to working with you in the continued development of the Togiak airport. If you have any questions, please contact Jonathan Linquist, Community Planner, at our office at 907-271-5040.

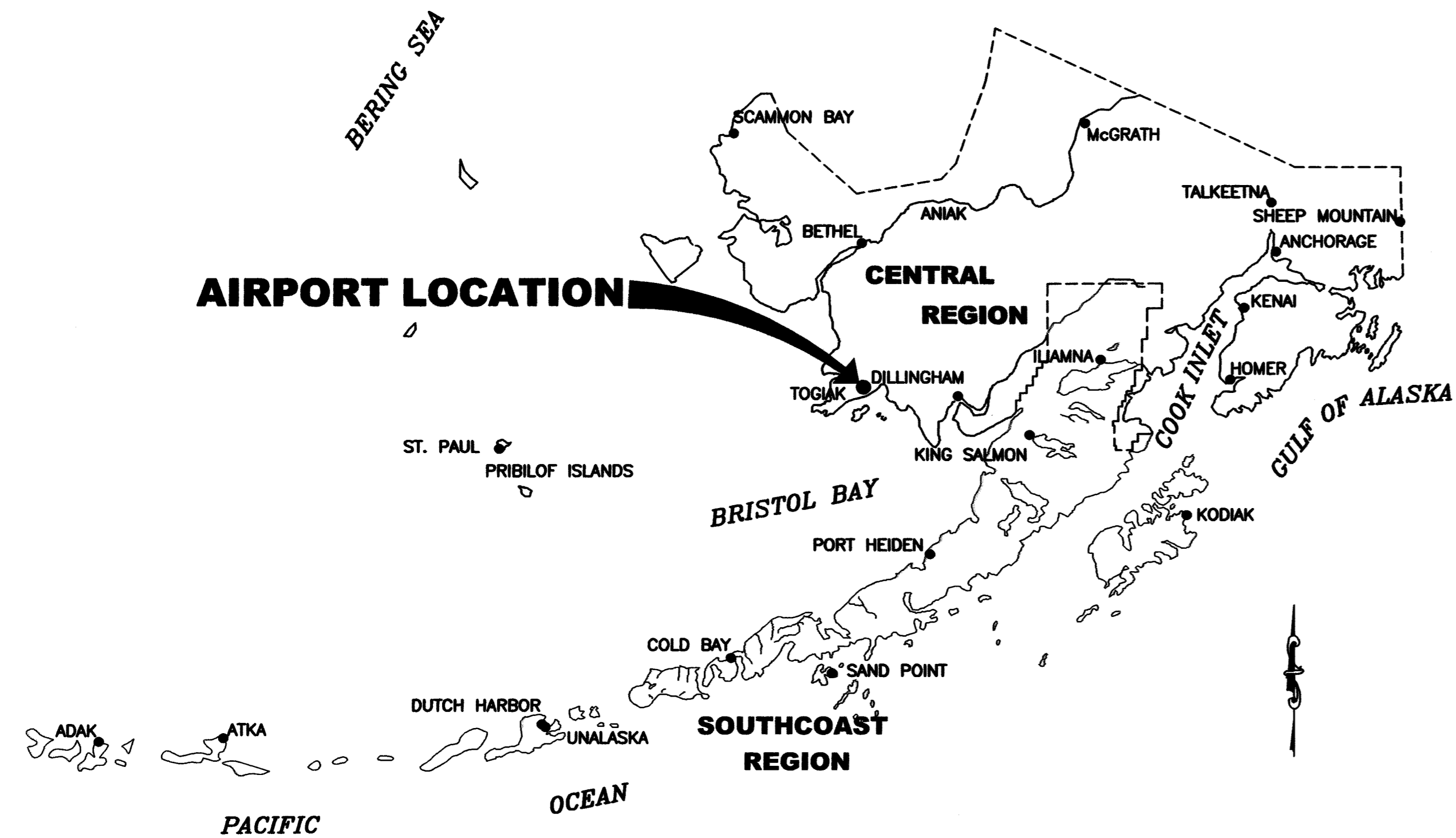
Sincerely,



Katrina C. Moss
Lead Community Planner

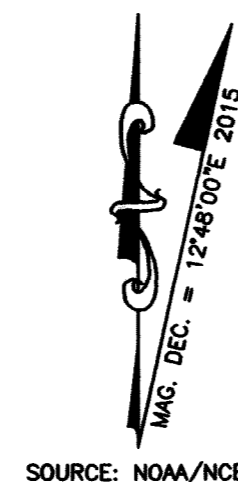
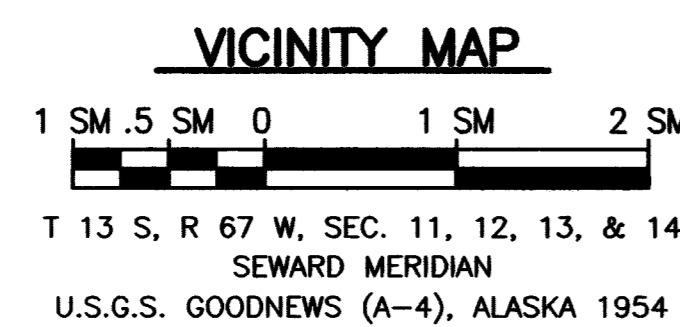
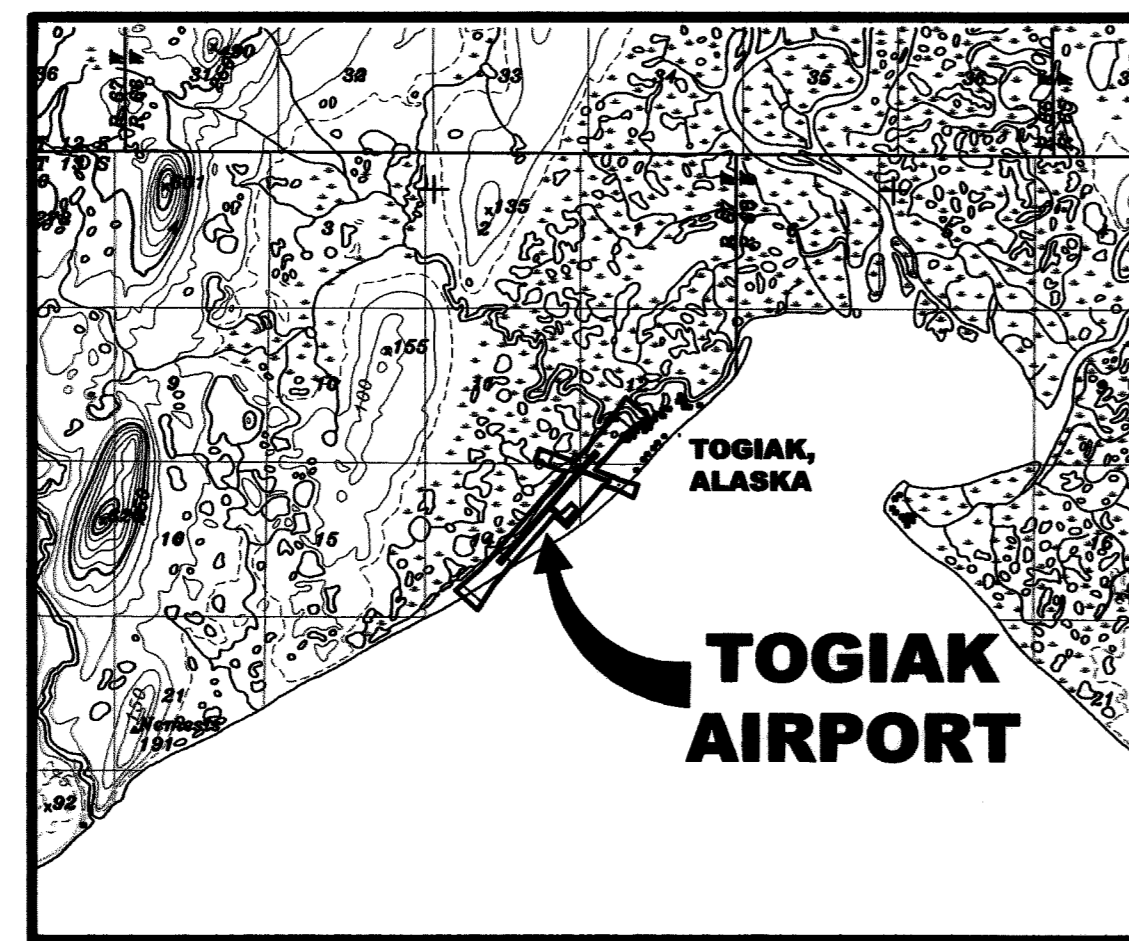
Enclosure

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 Designed By: RJB
 Drawn By: RJB
 Checked By: JN/PC



ALASKA CENTRAL REGION LOCATION MAP

NOT TO SCALE



TOGIAK AIRPORT AIRPORT LAYOUT PLAN TOGIAK, ALASKA

LEGEND		
ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (A.R.P.)	⊙	N/A
ANTENNA	▲	N/A
APPROACH SURFACE (PART 77)	---AP---	N/A
BUILDINGS	□	N/A
BUILDING RESTRICTION LINE	---BRL---	N/A
BUSH	⊙	N/A
DEMOLITION EXTENTS	▨	▨
DEPARTURE SURFACE	---DS---	N/A
OVERHEAD ELECTRIC	---OHE---	N/A
PAPI	□□□□	■ ■ ■ ■
PAPI SITING SURFACE	---PSS---	N/A
POST	○	N/A
PROPERTY LINE	---	---
ROADWAYS	---	N/A
ROTATING BEACON	⊙	N/A
RUNWAY OBJECT FREE AREA	---OFA---	N/A
RUNWAY OBSTACLE FREE ZONE	---OFZ---	N/A
RUNWAY PROTECTION ZONE	---RPZ---	N/A
RUNWAY SAFETY AREA	---RSA---	N/A
RUNWAY VISUAL ZONE	---VIZ---	N/A
SATELLITE DISH	⊙	N/A
SEGMENTED CIRCLE	⊙	N/A
SHORELINE	---	N/A
STREAM	---	N/A
SURVEY MONUMENT	⊙	N/A
THRESHOLD MARKERS/LIGHTS	○○○ ○○○	N/A
THRESHOLD SITING SURFACE	---TSS---	N/A
TOPOGRAPHIC CONTOURS	---100---	N/A
UTILITY POLE	⊙	N/A
VASI	□□	N/A
WEATHER STATION	⊙	N/A
WIND CONE	F	F

DRAWING INDEX	
SHT #	TITLE
1	COVER SHEET AND INDEX
2	DATA
3	EXISTING LAYOUT
4	ULTIMATE LAYOUT
5	EXISTING/ULTIMATE RUNWAY PROFILES
6	EXISTING/ULTIMATE INNER PORTION OF THE APPROACH SURFACE – RUNWAY 3/21
7	EXISTING/ULTIMATE INNER PORTION OF THE APPROACH SURFACE – RUNWAY 10/28
8	EXISTING/ULTIMATE DEPARTURE SURFACES – RUNWAY 3/21
9	AIRPORT AIRSPACE (F.A.R. PART 77)
10	AIRPORT AIRSPACE PROFILES (F.A.R. PART 77)
11	LAND USE
12	AIRPORT PROPERTY MAP

BY	DATE	REV NO.	REVISION

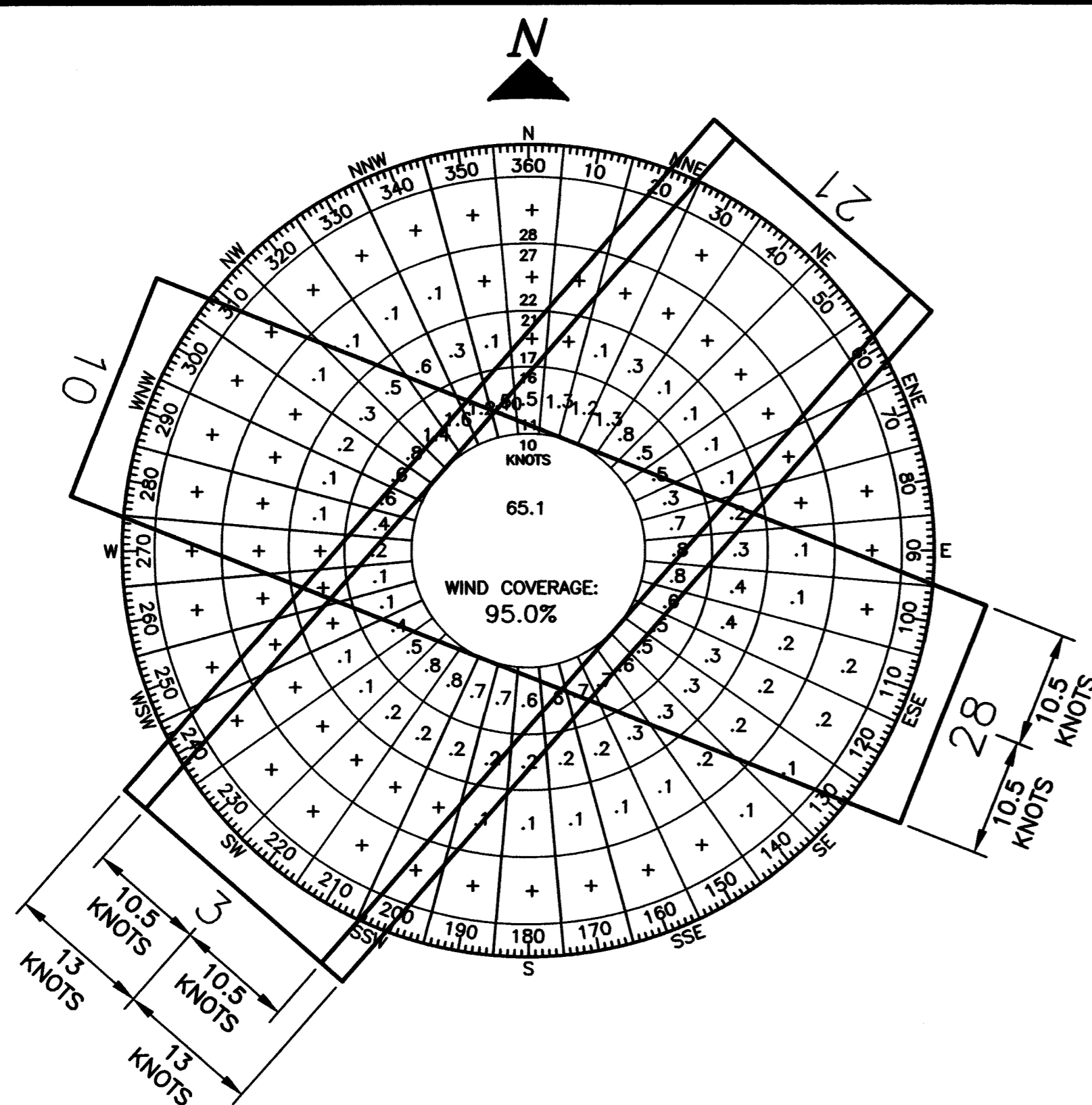
APPROVED: _____ **DATE:** 12/5/19
JOHN R. LINNELL, P.E. PRECONSTRUCTION ENGINEER
RECOMMENDED: _____ **DATE:** 12/4/19
LUKE S. BOWLAND, P.E. DESIGN GROUP CHIEF
 AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO
 ALP APPROVAL LETTER DATED 12/17/2019
 FAA AIRSPACE REVIEW NUMBER: 2018-AAL-025-NRA
 _____ **DATE:** 12-17-2019
 FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-612

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 COVER & SHEET INDEX

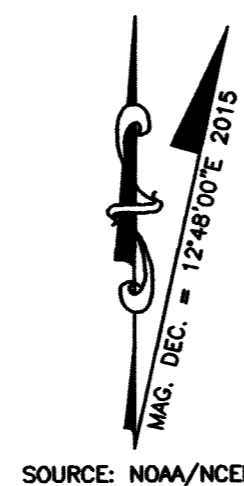
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SHEET: 1 OF 12

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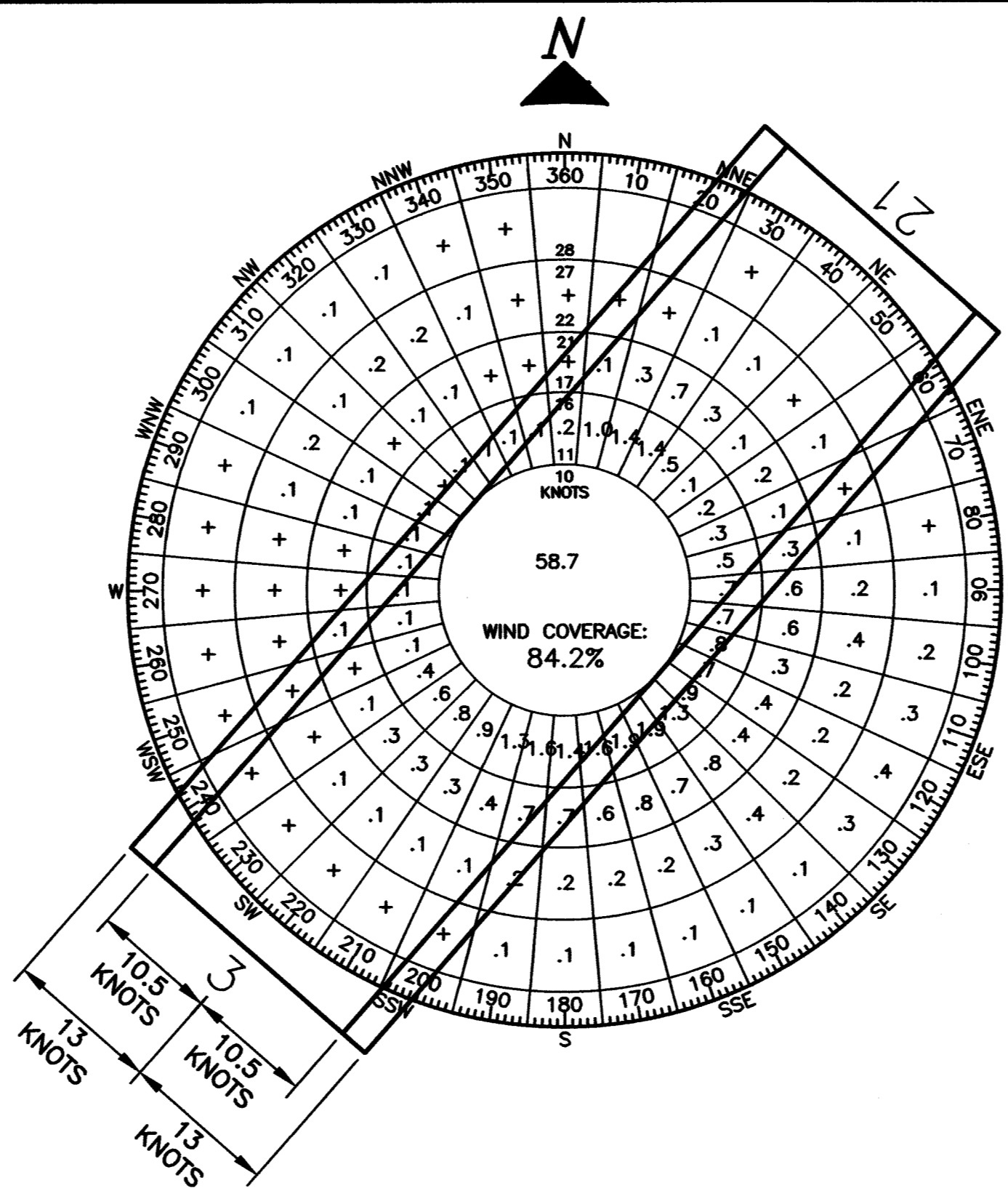


RUNWAY	10.5 kt	13 kt	16 kt	20 kt
3/21	80.7%	87.0%	-	-
10/28	83.4%	N/A	-	-
COMBINED	95.0%	87.0%	-	-

SOURCE: NCDC ISH/ISD INVENTORY
 STATION: TOGIK
 PERIOD: 2006-2014



SOURCE: NOAA/NCES



RUNWAY	10.5 kt	13 kt	16 kt	20 kt
3/21	77.8%	84.2%	-	-
10/28	N/A	N/A	-	-
COMBINED	77.8%	84.2%	-	-

SOURCE: NCDC ISH/ISD INVENTORY
 STATION: TOGIK
 PERIOD: 2006-2014

ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	PATG	PATG
NATIONAL AIRPORT IDENTIFIER	TOG	TOG
FAA SITE NUMBER	50764.4*A	50764.4*A
AIRPORT ELEVATION NAVD88	18.0	18.0
AIRPORT REFERENCE CODE	A-II	A-II
CRITICAL AIRCRAFT	A-II	A-II
MEAN MAX. TEMPERATURE, HOTTEST MONTH	63.0°F, JULY	63.0°F, JULY
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE	12°48' E, JAN 2015, 23.4' WEST PER YEAR	
AIRPORT AND TERMINAL NAVIGATION AIDS	NDB, GPS, DME, ROTATING BEACON	NDB, GPS, DME, ROTATING BEACON
MISCELLANEOUS FACILITIES	WINDCONE, WEATHER STATION	WINDCONE, WEATHER STATION
NPIAS SERVICE LEVEL	GENERAL AVIATION	GENERAL AVIATION
STATE EQUIVALENT SERVICE ROLE	COMMUNITY OFF-ROAD	COMMUNITY OFF-ROAD

ITEM	EXISTING	ULTIMATE
RUNWAY TYPE (UTILITY OR OTHER THAN UTILITY)	OTHER THAN UTILITY	OTHER THAN UTILITY
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	NPI / NPI	NPI / NPI
VISIBILITY MINIMUM	≥1 SM / ≥1 SM	≥1 SM / ≥1 SM
FAR PART 77 APPROACH SURFACE SLOPE	34:1 / 34:1	34:1 / 34:1
THRESHOLD SITING SURFACE	20:1 / 20:1	20:1 / 20:1
RUNWAY DESIGN CODE	A-II-5000	A-II-5000
APPROACH REFERENCE CODE	D-IV-5000 AND D-V-5000	D-IV-5000 AND D-V-5000
DEPARTURE REFERENCE CODE	D-IV AND D-V	D-IV AND D-V
RUNWAY SURFACE	GRAVEL	ASPHALT
PAVEMENT STRENGTH (SW,DW) x1,000 LBS	N/A	40/60
DESIGN GROUP OR AIRCRAFT IF > 60,000 lbs	N/A	N/A
MAXIMUM ELEVATION (NAVD88)	18.0	18.0
TOUCHDOWN ZONE ELEVATION NAVD88	18.0 / 17.9	18.0 / 17.9
EFFECTIVE GRADE	0.11%	0.11%
MEAN GEODETIC BEARING	N 41.37° E	N 41.37° E
RUNWAY DIMENSIONS	100 x 4400	100 x 4400
RUNWAY SAFETY AREA (RSA)	150 x 5000	150 x 5000
RSA LENGTH BEYOND RUNWAY ENDS	300 / 300	300 / 300
RUNWAY OBJECT FREE AREA (ROFA)	500 x 5000	500 x 5000
ROFA LENGTH BEYOND RUNWAY ENDS	300 / 300	300 / 300
RUNWAY OBSTACLE FREE ZONE (OFZ)	400 x 4800	400 x 4800
RUNWAY PROTECTION ZONE (RPZ)	500 x 700 x 1000	500 x 700 x 1000
RUNWAY LIGHTING	MIRL	MIRL
RUNWAY MARKING TYPE	N/A	NON-PRECISION
RUNWAY NAVIGATIONAL AIDS	PAPI / VASI	PAPI / PAPI
AERONAUTICAL SURVEY TYPE REQUIRED	NON-VERTICALLY GUIDED	NON-VERTICALLY GUIDED
DEPARTURE SURFACE	YES / YES	YES / YES

ITEM	EXISTING	ULTIMATE
RUNWAY TYPE (UTILITY OR OTHER THAN UTILITY)	UTILITY	UTILITY
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	V / V	V / V
VISIBILITY MINIMUM	VISUAL / VISUAL	VISUAL / VISUAL
FAR PART 77 APPROACH SURFACE SLOPE	20:1 / 20:1	20:1 / 20:1
THRESHOLD SITING SURFACE	20:1 / 20:1	20:1 / 20:1
RUNWAY DESIGN CODE	A-I-VIS	A-I-VIS
APPROACH REFERENCE CODE	D-IV-VIS	D-IV-VIS
DEPARTURE REFERENCE CODE	D-IV	D-IV
RUNWAY SURFACE	GRAVEL	GRAVEL
DESIGN GROUP OR AIRCRAFT IF > 60,000 lbs	N/A	N/A
MAXIMUM ELEVATION (NAVD88)	17.9	17.9
TOUCHDOWN ZONE ELEVATION NAVD88	17.9 / 17.9	17.9 / 17.9
EFFECTIVE GRADE	0.18%	0.18%
MEAN GEODETIC BEARING	S 68.46° E	S 68.46° E
RUNWAY DIMENSIONS	59 x 982	59 x 982
RUNWAY SAFETY AREA (RSA)	60 x 1442	60 x 1462
RSA LENGTH BEYOND RUNWAY ENDS	220 / 240	240 / 240
RUNWAY OBJECT FREE AREA (ROFA)	250 x 1462	250 x 1462
ROFA LENGTH BEYOND RUNWAY ENDS	240 / 240	240 / 240
RUNWAY OBSTACLE FREE ZONE (OFZ)	120 x 1382	120 x 1382
RUNWAY PROTECTION ZONE (RPZ)	250 x 450 x 1000	250 x 450 x 1000
RUNWAY LIGHTING	NONE	MIRL
RUNWAY MARKING TYPE	N/A	N/A
RUNWAY NAVIGATIONAL AIDS	N/A	N/A
AERONAUTICAL SURVEY TYPE REQUIRED	NVG	NVG
DEPARTURE SURFACE	NO / NO	NO / NO

ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	EXISTING ELEVATION	ULTIMATE LATITUDE	ULTIMATE LONGITUDE	ULTIMATE ELEVATION
ARP	59°03'13" N	160°23'48" W		59°03'13" N	160°23'48" W	
THRESHOLD RW 3	59°02'54.45" N	160°24'20.86" W	17.8	59°02'54.45" N	160°24'20.86" W	17.8
THRESHOLD RW 21	59°03'26.97" N	160°23'25.27" W	17.6	59°03'26.97" N	160°23'25.27" W	17.6
THRESHOLD RW 10	59°03'24.03" N	160°23'36.41" W	16.1	59°03'24.03" N	160°23'36.41" W	16.1
THRESHOLD RW 28	59°03'20.48" N	160°23'18.94" W	16.7	59°03'20.48" N	160°23'18.94" W	16.7

PID	DESIGNATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TDB	TOG A	59°03'10.66" N	160°23'42.12" W	59.42	1849414.24	1942546.73	15.03	PACS
TDB	TOG B	59°02'59.60" N	160°24'04.43" W	59.92	1848263.78	1941407.04	15.52	SACS
TDB	TOG C	59°03'27.79" N	160°23'31.59" W	58.33	1851166.24	1943055.31	13.96	SACS

ITEM	EXISTING/ULTIMATE						
	WIDTH	SHLDR	LENGTH	TSR	TOFA	TESM	LIGHTS
TW A	35 (TDG 2)	15	400	79 (ADG II)	131(ADG II)	7.5	MIL

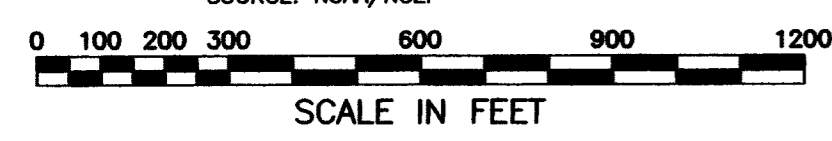
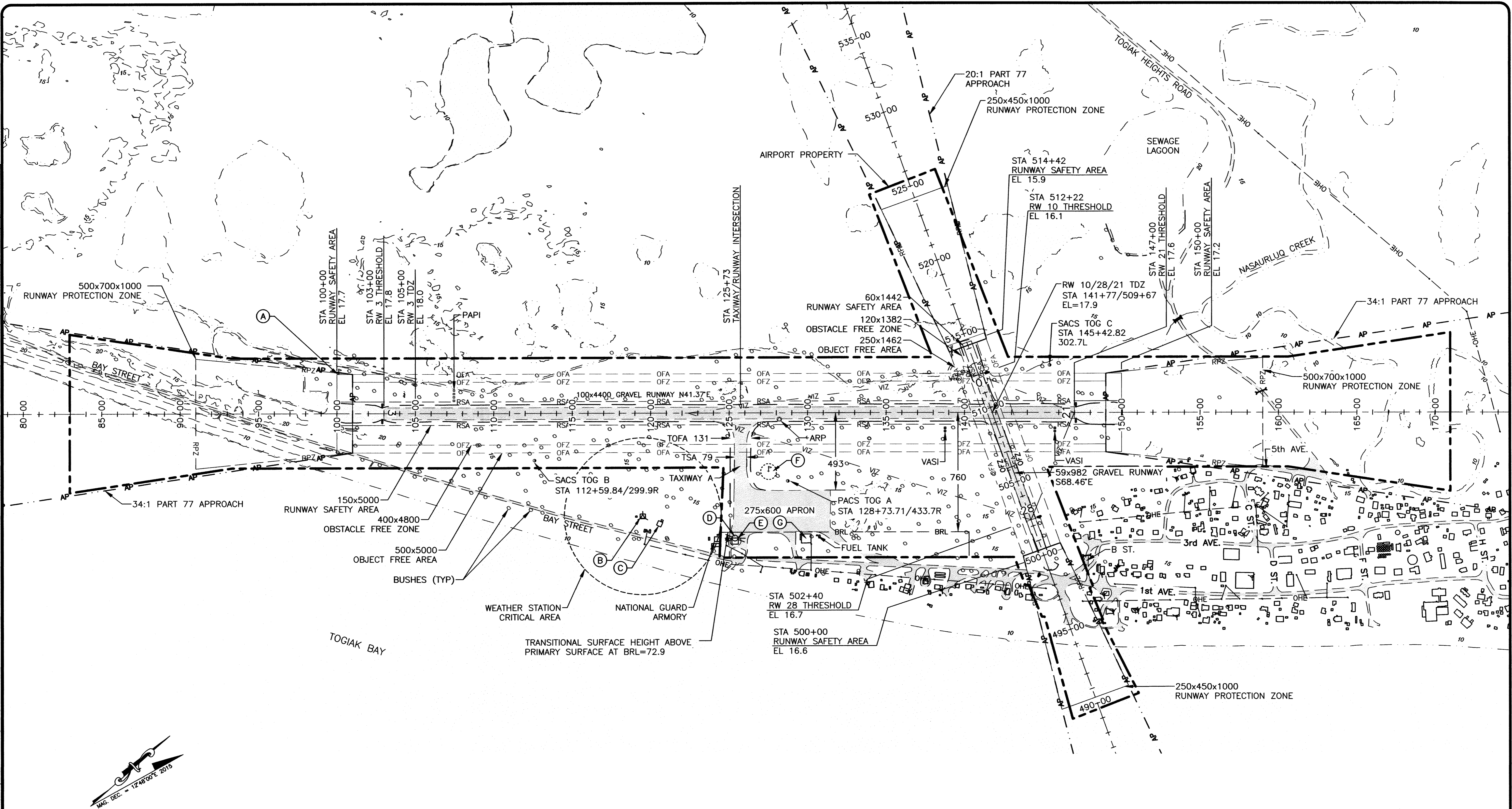
ITEM	STANDARD	EXISTING	ULTIMATE
RUNWAY 3/21 THRESHOLD LIGHTS	INBOARD (2-10 OFFSET)	INBOARD (0 OFFSET)	INBOARD (2-10 OFFSET)
SEWAGE LAGOON SEPARATION DISTANCE	5000	1200	1200
RW 10 RSA LENGTH BEYOND RUNWAY END	240	220	240

ITEM	EXISTING	STANDARD	ULTIMATE	AIRSPACE #	APPROVAL DATE
NONE					

- NOTES**
- THIS DRAWING IS A COMPILATION OF GROUND SURVEY AND AERIAL MAPPING DATA COLLECTED DURING THE 2014 SEASON IN SUPPORT OF FAA AERONAUTICAL SURVEY #158433.
 - THE HORIZONTAL COORDINATE SYSTEM FOR THIS PROJECT IS NAD 83 (2011) (EPOCH 2010) ALASKA STATE PLANE ZONE 7, U.S. FEET. THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88 (GEOID 12A).
 - GROUND SURVEY WAS PERFORMED BY STANTEC JUNE 4-8, 2014. AERIAL MAPPING WAS PERFORMED BY KODIAK MAPPING USING IMAGERY COLLECTED JUNE 28, 2014.
 - PACS AND SACS POSITIONS SHOWN HEREIN ARE BASED ON STANTEC SURVEY RESULTS USING OPUS (TEMPORARY CONTROL). NATIONAL GEODETIC SURVEY (NGS) PUBLISHED POSITIONS ARE NOT AVAILABLE AT THIS TIME.

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION		TOGIK AIRPORT TOGIK, ALASKA AIRPORT LAYOUT PLAN	DATE: 11/25/2019
			SHEET: 2 OF 12
BY:	DATE:	REVISION:	DATA

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 Drawn By: RWW
 Checked By: JGL
 Designed By: MMW



NOTES:

1. NO OFZ OBJECT PENETRATIONS.
2. NO RVZ OBSTRUCTIONS.
3. SEE INNER APPROACH SHEETS FOR THRESHOLD SITING CRITERIA.

FACILITIES DATA TABLE				
ID#	DESCRIPTION	STATION/ OFFSET	TOP ELEV. (MSL)	OBSTRUCT MARKING
A	WIND CONE	100+10/250L	38.4	NONE
B	WEATHER STATION	119+49/656R	43.9	LIGHTED
C	RADOME	120+57/704R	44.0	NONE
D	AIRPORT BEACON	125+37/797R	47.0	N/A
E	SREB	125+37/796R	41.9	NONE
F	WIND CONE & SEGMENTED CIRCLE	127+50/375R	35.8	LIGHTED
G	BUILDING	129+87/771R	38.0	NONE
H*	NDB/DME	182+76/535R	74.2	LIGHTED

*NOT SHOWN ON LAYOUT

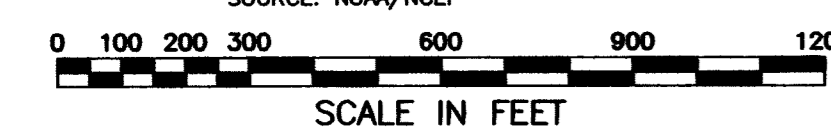
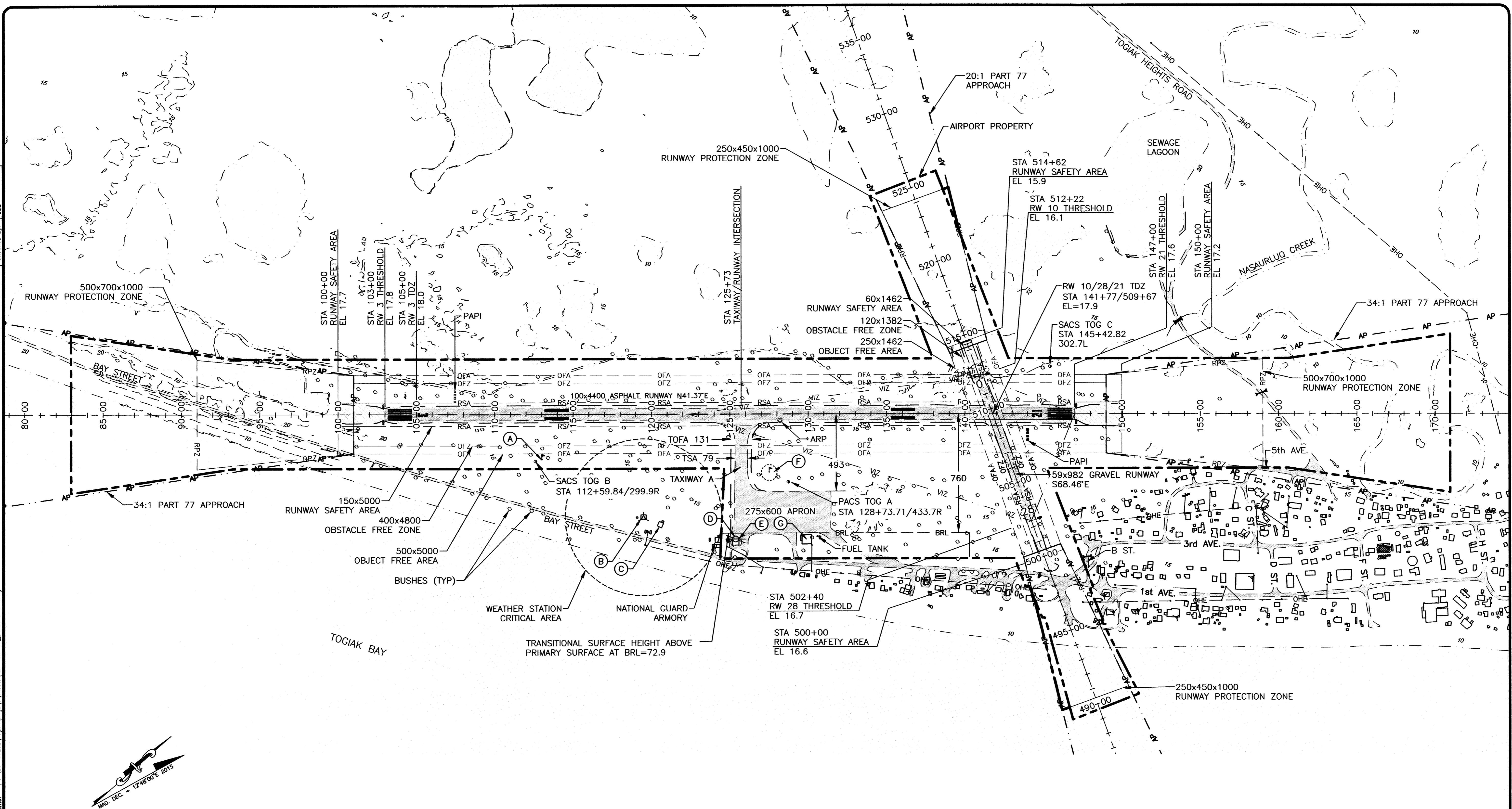
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 EXISTING LAYOUT

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 SHEET: 3 OF 12

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 Drawn By: MMW
 Checked By: JGL



- NOTES:**
- NO OFZ OBJECT PENETRATIONS.
 - NO RVZ OBSTRUCTIONS.
 - SEE INNER APPROACH SHEETS FOR THRESHOLD SITING CRITERIA.

FACILITIES DATA TABLE				
ID#	DESCRIPTION	STATION/ OFFSET	TOP ELEV. (MSL)	OBSTRUCT MARKING
A	WIND CONE	113+00/290R	27.0	NONE
B	WEATHER STATION	119+49/656R	43.9	LIGHTED
C	RADOME	120+57/704R	44.0	NONE
D	AIRPORT BEACON	125+37/797R	47.0	N/A
E	SREB	125+37/796R	41.9	NONE
F	WIND CONE & SEGMENTED CIRCLE	127+50/375R	35.8	LIGHTED
G	BUILDING	129+87/771R	38.0	NONE
H*	NDB/DME	182+76/535R	74.2	LIGHTED

*NOT SHOWN ON LAYOUT

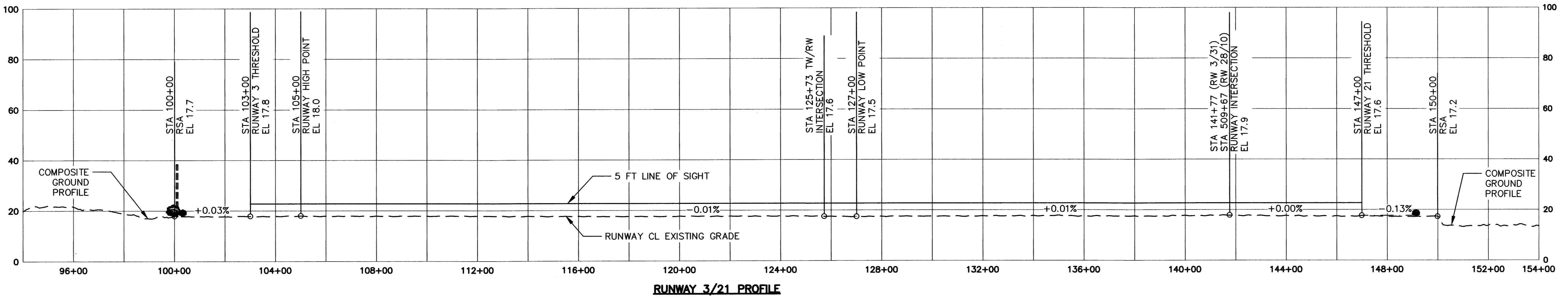
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 ULTIMATE LAYOUT

DATE: 11/25/2019	SHEET: 4 OF 12
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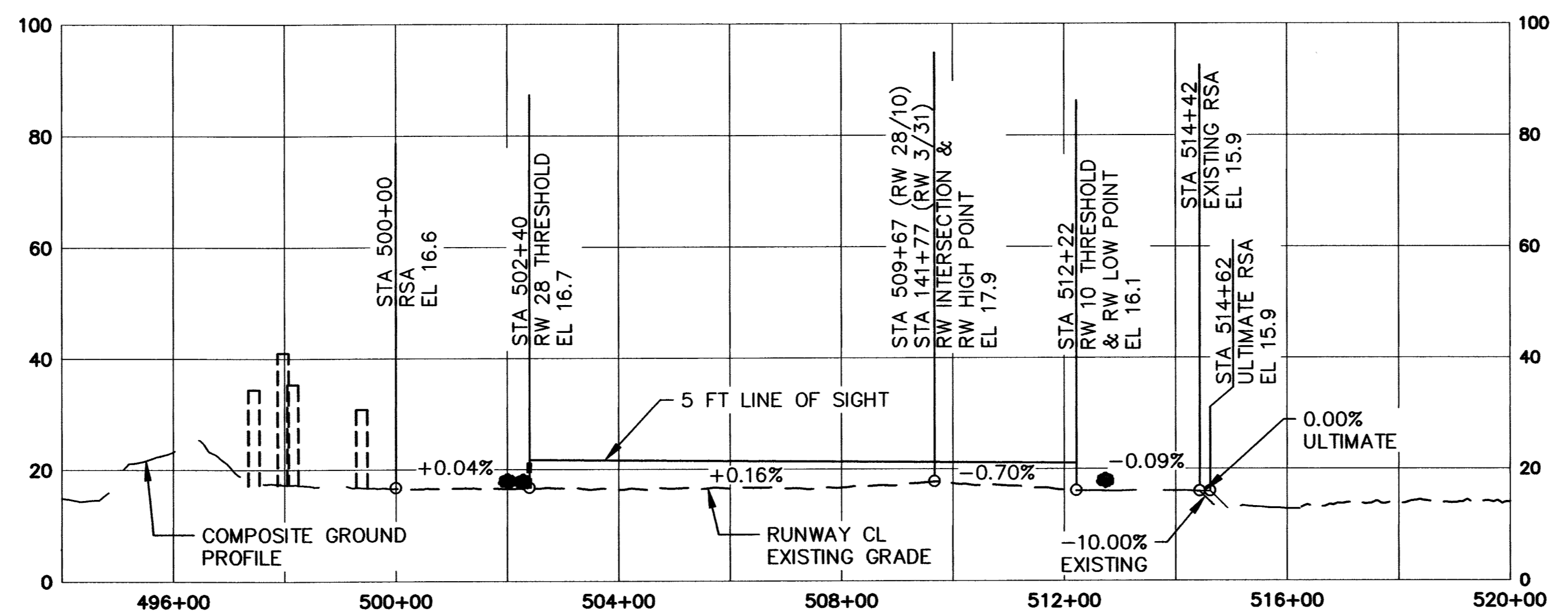
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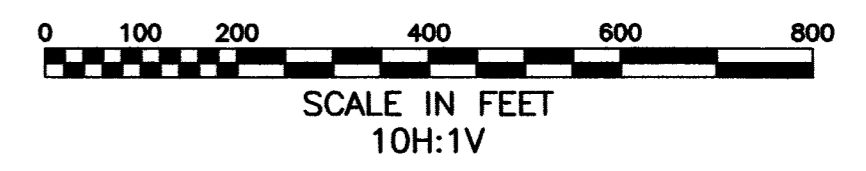
RUNWAY 3/21 PROFILE

NOTES:

1. REFER TO LAYOUT SHEETS FOR EXISTING AND ULTIMATE PLAN VIEWS.
2. REFER TO EXISTING/ULTIMATE INNER PORTION OF THE APPROACH SURFACES FOR OBSTRUCTION DATA AND THRESHOLD SITING CRITERIA.
3. REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.
4. NO OFZ PENETRATIONS.
5. NO RVZ OBSTRUCTIONS.
6. RUNWAYS PROVIDE CLEAR LINE OF SIGHT PER AC 150/5300-13A PARAGRAPH 305.
7. NO CHANGE IN RUNWAY PROFILE FOR ULTIMATE.



RUNWAY 28/10 PROFILE



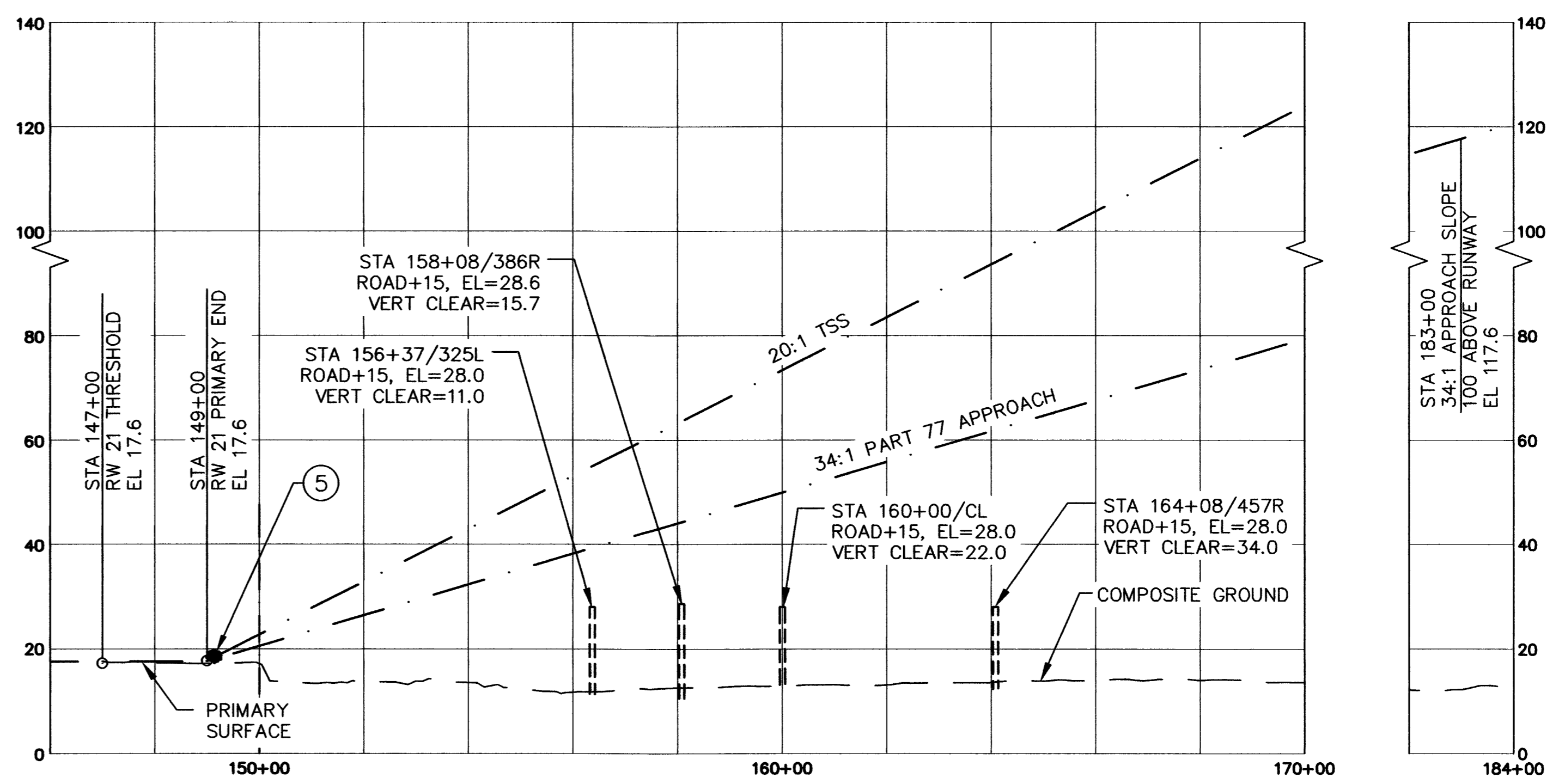
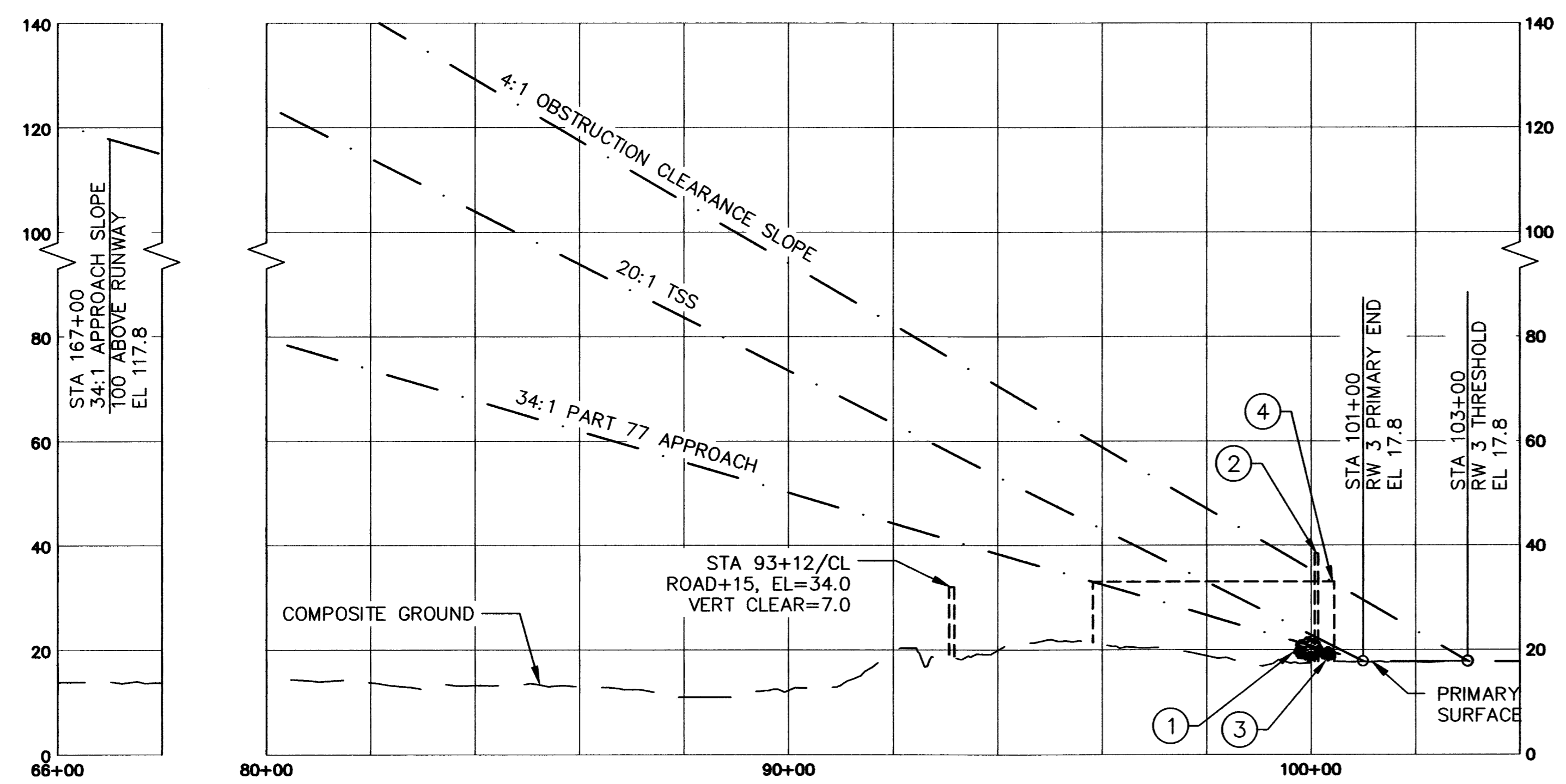
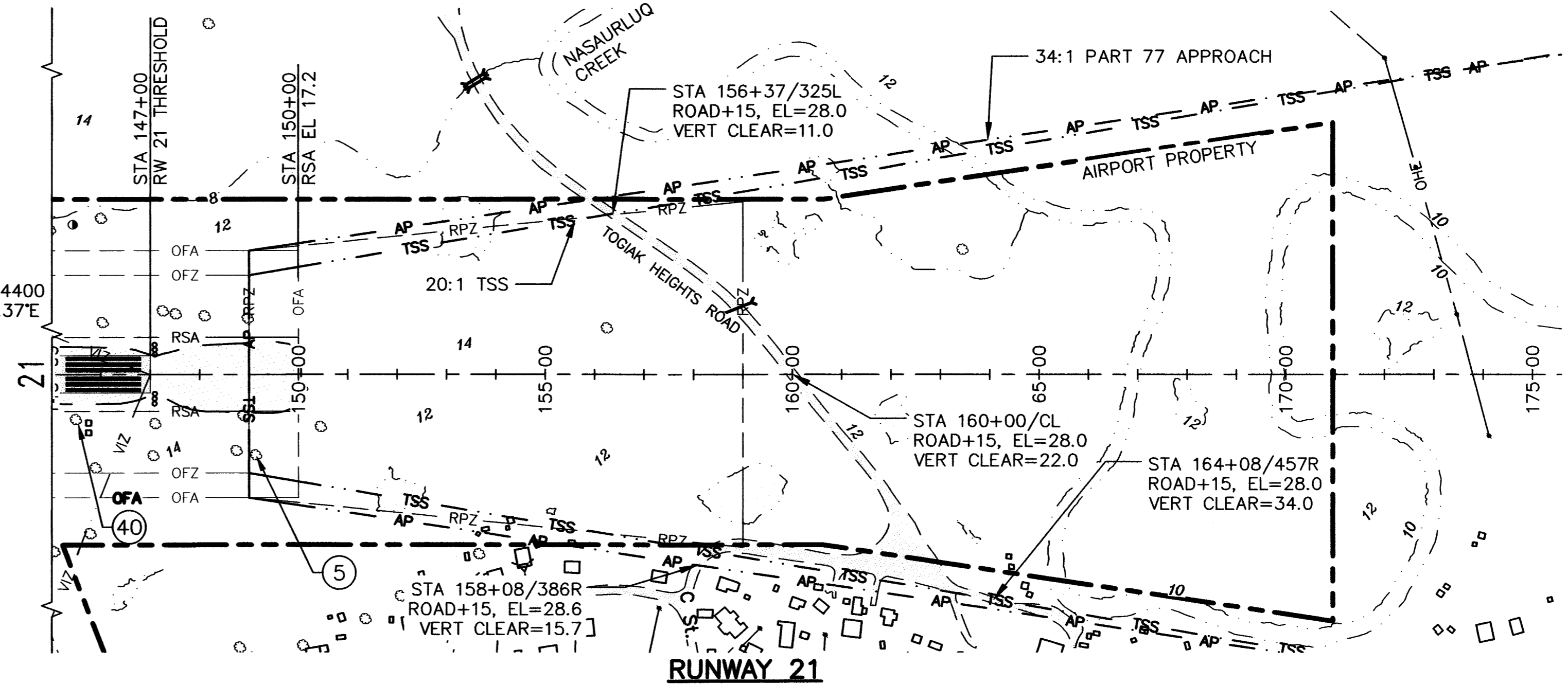
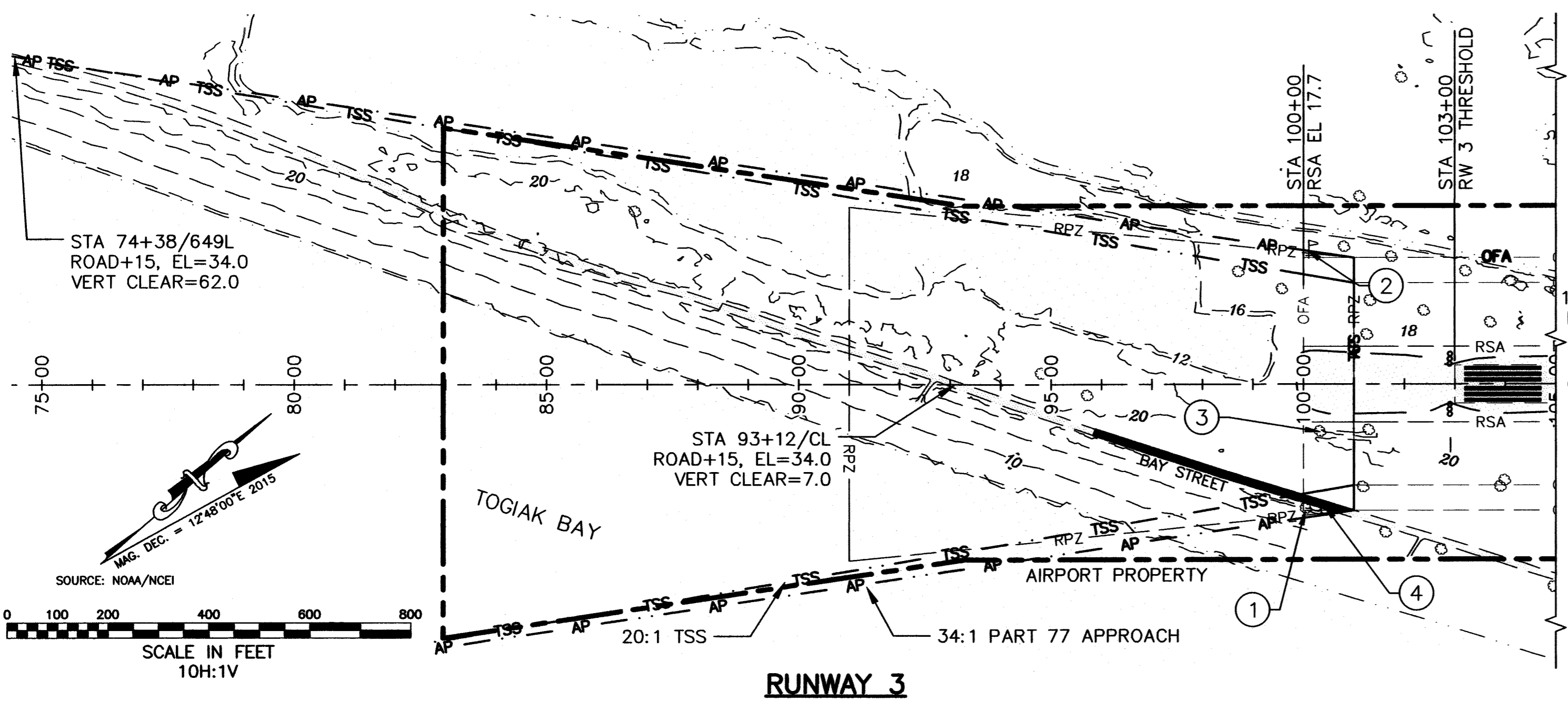
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 EXISTING/ULTIMATE RUNWAY PROFILES

DATE:
11/25/2019
 SHEET:
5
 OF
12

Date Plotted: 12/04/2019 11:55 AM
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 Designed By: MMW
 Drawn By: RWJ
 Checked By: JGL
 SOURCE: NOAA/NCEI
 MAG. DEC. = 1248'00"E 2015
 SCALE IN FEET
 10H:1V



ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
1	BUSH	100+05/247R	23.8	APPROACH	20.6	3.2	REMOVE	ULTIMATE
2	UNLIGHTED WIND CONE	100+10/250L	38.4	APPROACH	20.5	18.0	RELOCATE	ULTIMATE
3	BUSH	100+33/94R	24.9	APPROACH	19.8	5.1	REMOVE	ULTIMATE
4	ROAD +15 (HP)	100+41/240R	33.0	APPROACH	19.5	13.5	TO REMAIN	N/A
40	BUSHES (ALONG BOTH RUNWAYS)	VARIES	VARIES	PRIMARY	VARIES	0.5-3.5	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
5	BUSH	149+14/164R	19.8	APPROACH	18.1	1.7	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
5	BUSH	149+14/164R	19.8	TSS	18.4	1.4	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
3	BUSH	100+33/94R	24.9	TSS	21.1	3.8	REMOVE	ULTIMATE

- NOTES:**
- REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.
 - MAPPING SHOWN ON THIS SHEET IS THE COMBINED TOPOGRAPHIC SURVEY AND CONTROLLED AERIAL MAPPING.
 - THRESHOLD SITING IS DEFINED PER AC 150/5300-13A CHANGE 1, TABLE 3-2, RUNWAY TYPE 4.
 - THERE ARE NO CONTROLLING OBSTRUCTIONS FOR THE APPROACH TO RUNWAY 21. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 34:1 PER FAA AC 150/5200-35, CHAP 4.

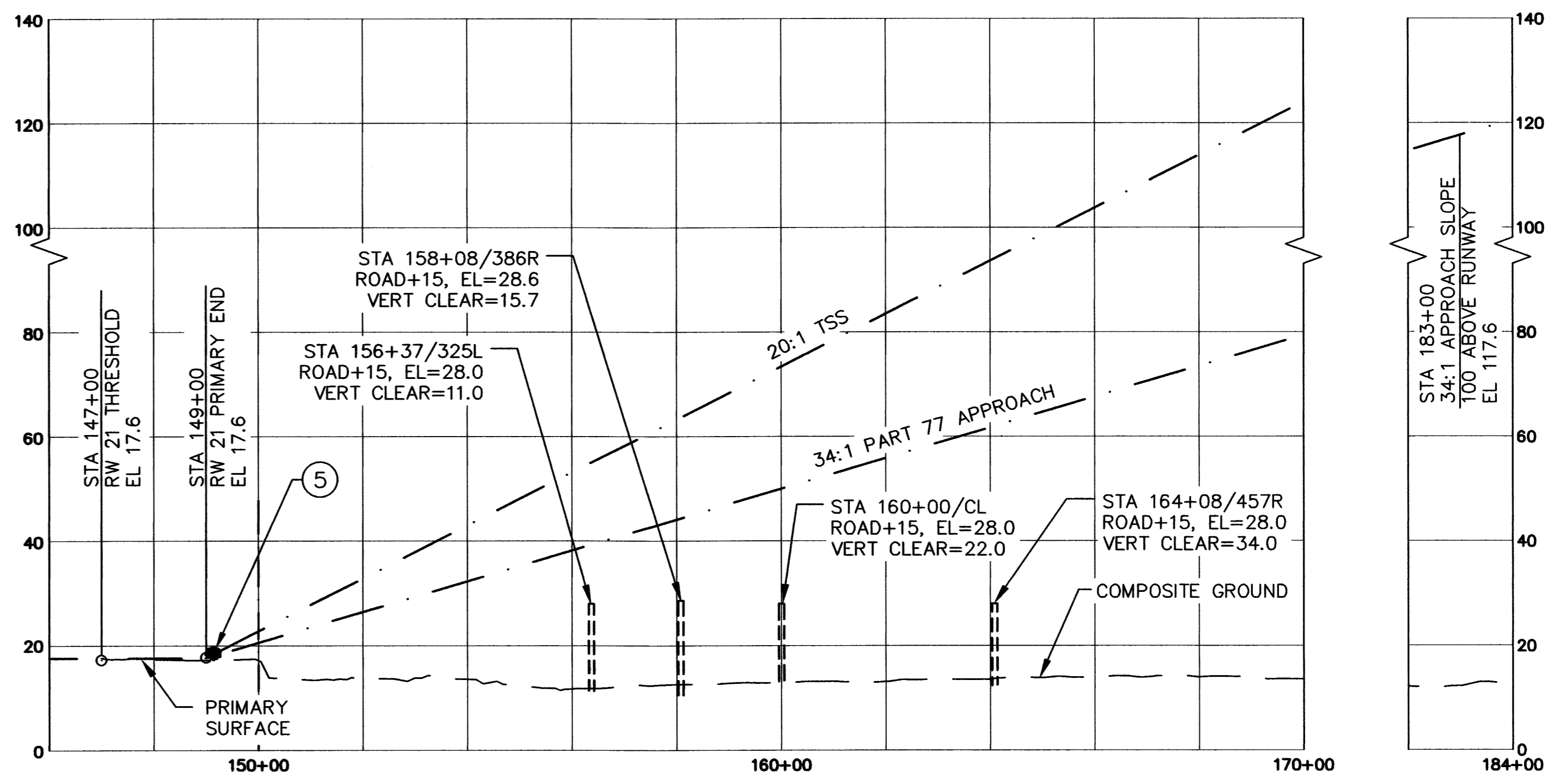
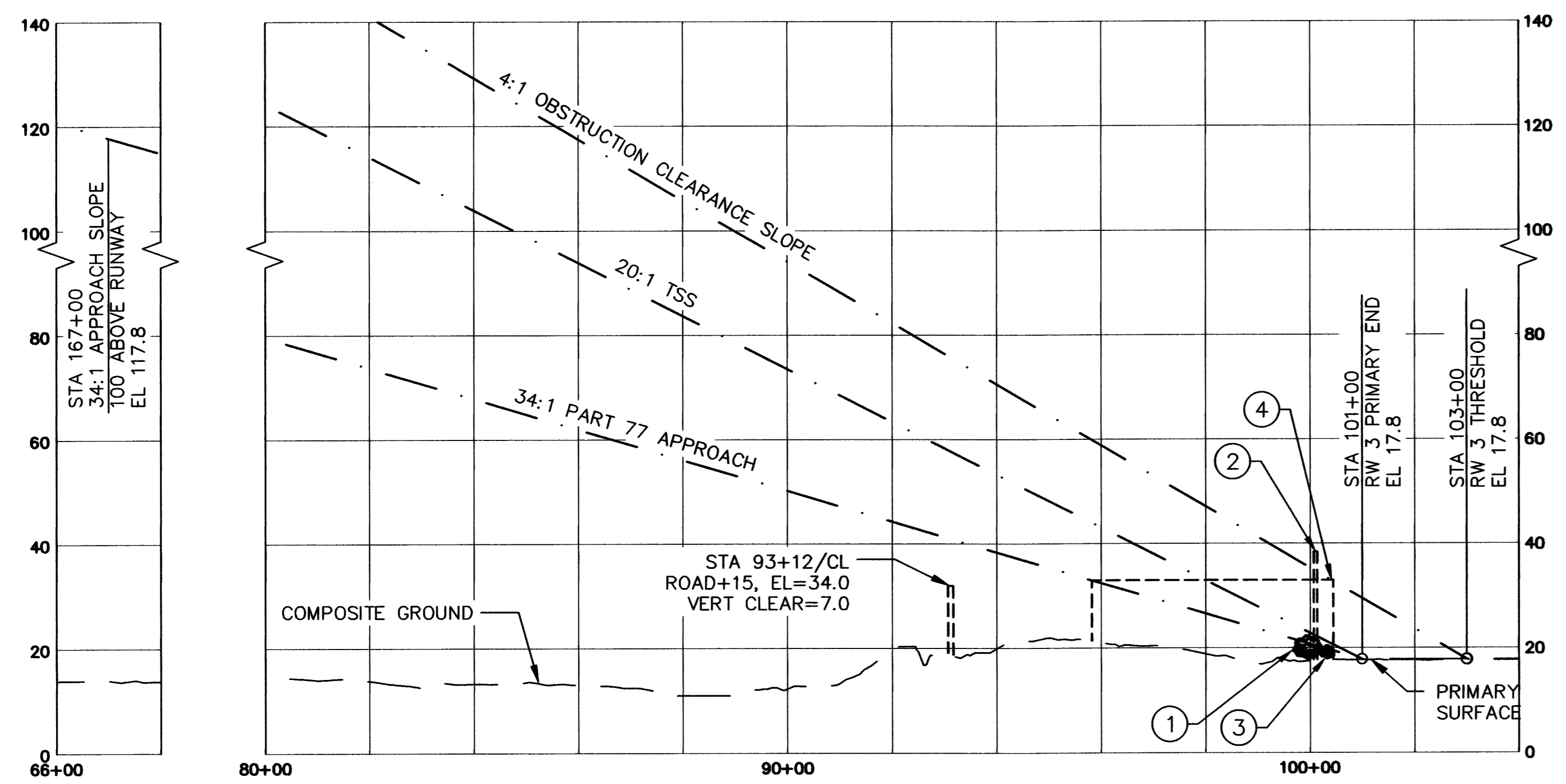
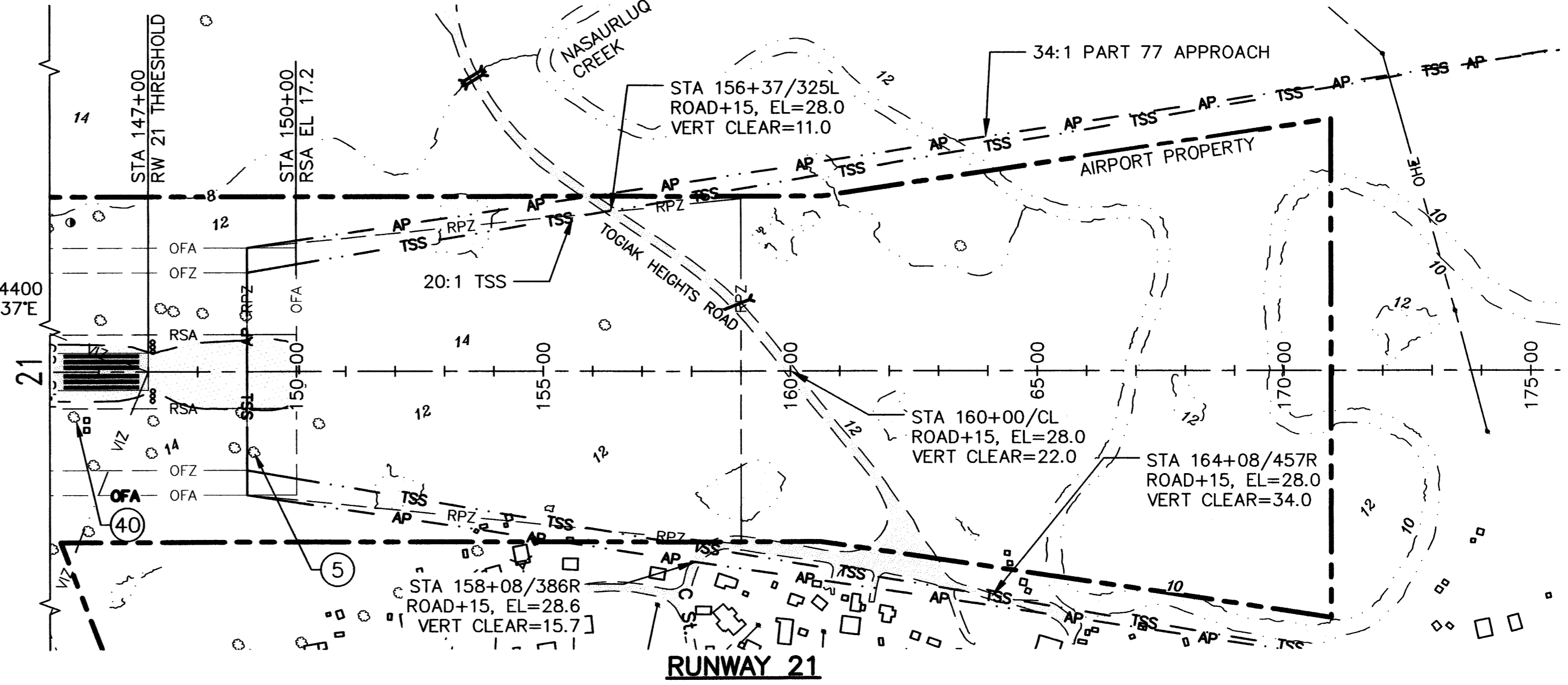
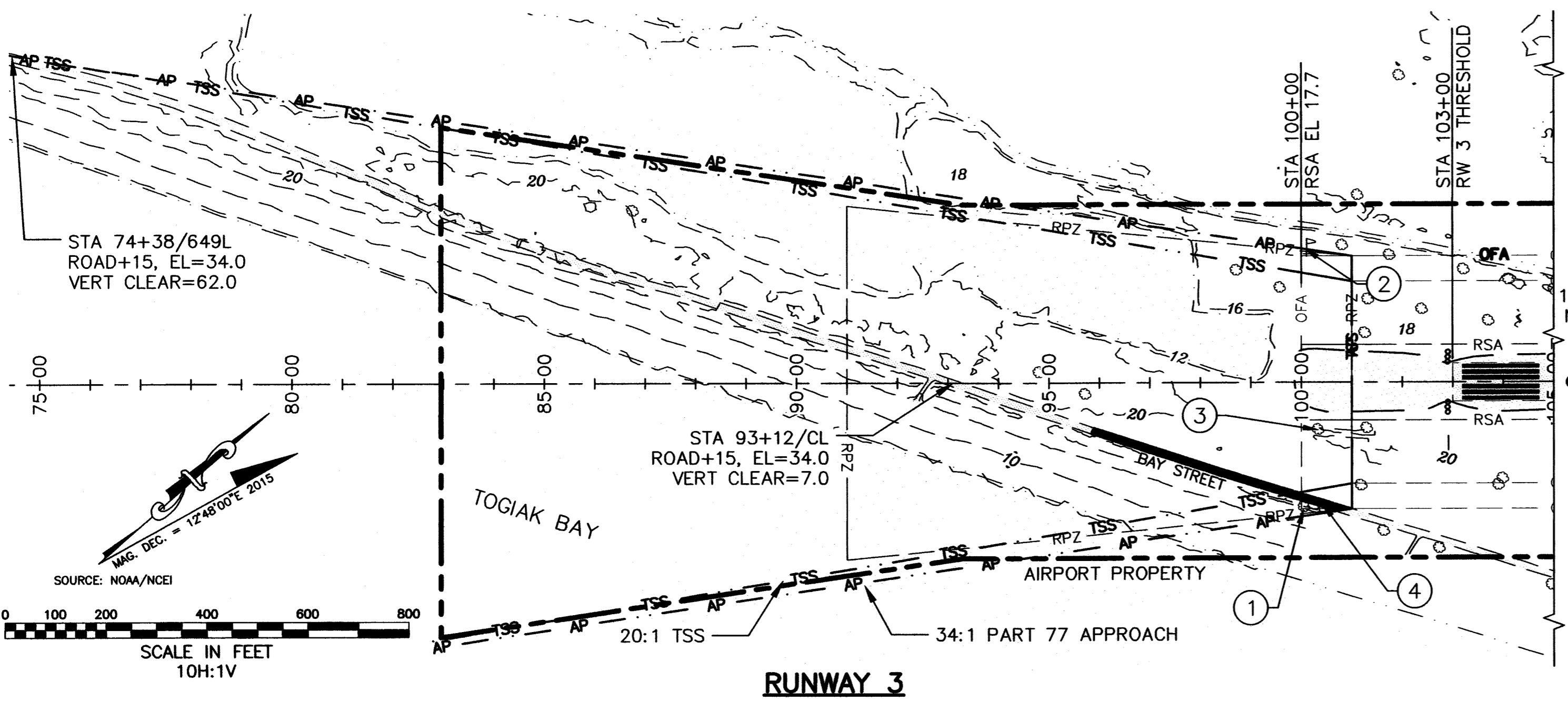
BY	DATE	REVISION

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

TOGIAK AIRPORT
TOGIAK, ALASKA
AIRPORT LAYOUT PLAN
EXISTING/ULTIMATE INNER PORTION OF
THE APPROACH SURFACE - RUNWAY 3/21

DATE: 11/25/2019
SHEET: 6 OF 12

Date Plotted: 12/04/2019 11:55 AM
 Designed By: MAM
 Drawn By: RWL
 Checked By: JGL
 6 INNER APPROACH SURF RW 03-21
 U:\2019\02\282\Togiak\Drawings\AUP-100-06-07_APPROCH-SURF.dwg
 File Name:



ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
1	BUSH	100+05/247R	23.8	APPROACH	20.6	3.2	REMOVE	ULTIMATE
2	UNLIGHTED WIND CONE	100+10/250L	38.4	APPROACH	20.5	18.0	RELOCATE	ULTIMATE
3	BUSH	100+33/94R	24.9	APPROACH	19.8	5.1	REMOVE	ULTIMATE
4	ROAD +15 (HP)	100+41/240R	33.0	APPROACH	19.5	13.5	TO REMAIN	N/A
40	BUSHES (ALONG BOTH RUNWAYS)	VARIES	VARIES	PRIMARY	VARIES	0.5-3.5	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
3	BUSH	100+33/94R	24.9	TSS	21.1	3.8	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
5	BUSH	149+14/164R	19.8	APPROACH	18.1	1.7	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
5	BUSH	149+14/164R	19.8	TSS	18.4	1.4	REMOVE	ULTIMATE

- NOTES:
- REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.
 - MAPPING SHOWN ON THIS SHEET IS THE COMBINED TOPOGRAPHIC SURVEY AND CONTROLLED AERIAL MAPPING.
 - THRESHOLD SITING IS DEFINED PER AC 150/5300-13A CHANGE 1, TABLE 3-2, RUNWAY TYPE 4.
 - THERE ARE NO CONTROLLING OBSTRUCTIONS FOR THE APPROACH TO RUNWAY 21. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 34:1 PER FAA AC 150/5200-35, CHAP 4.

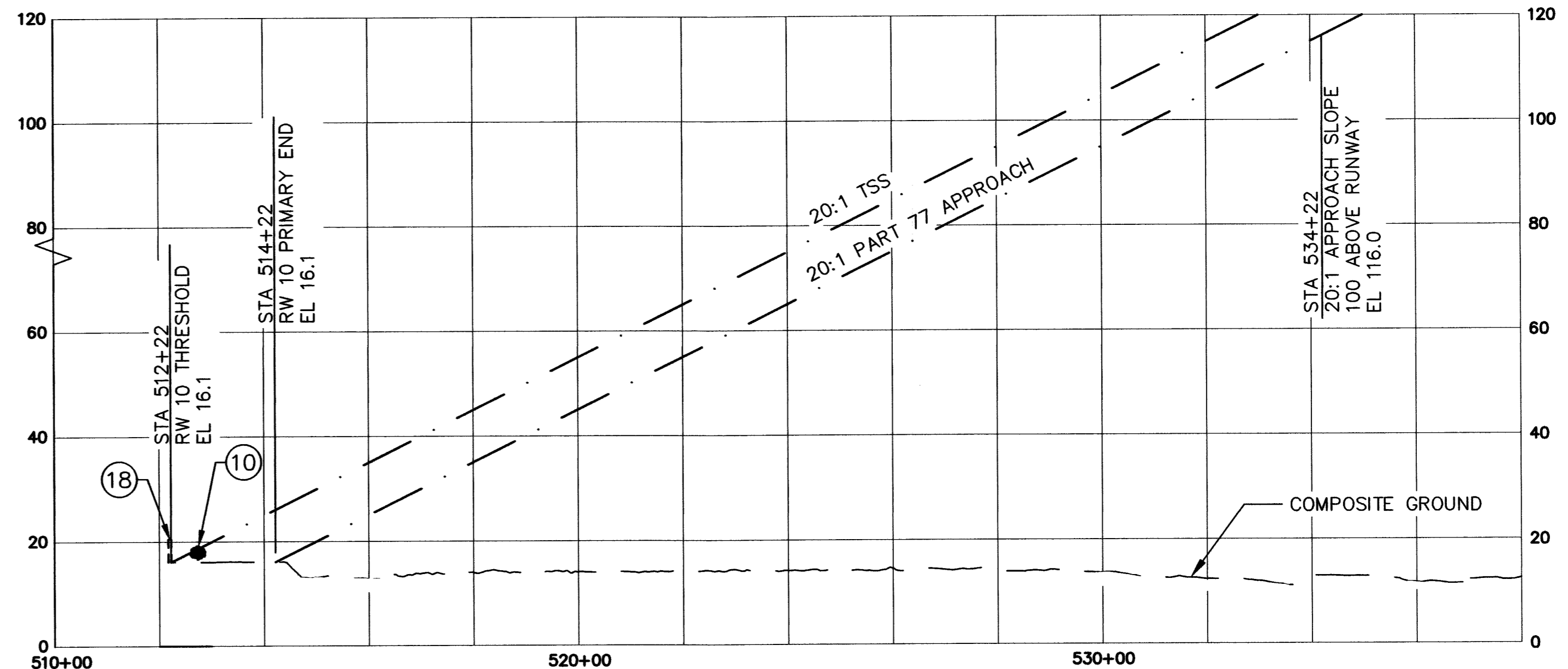
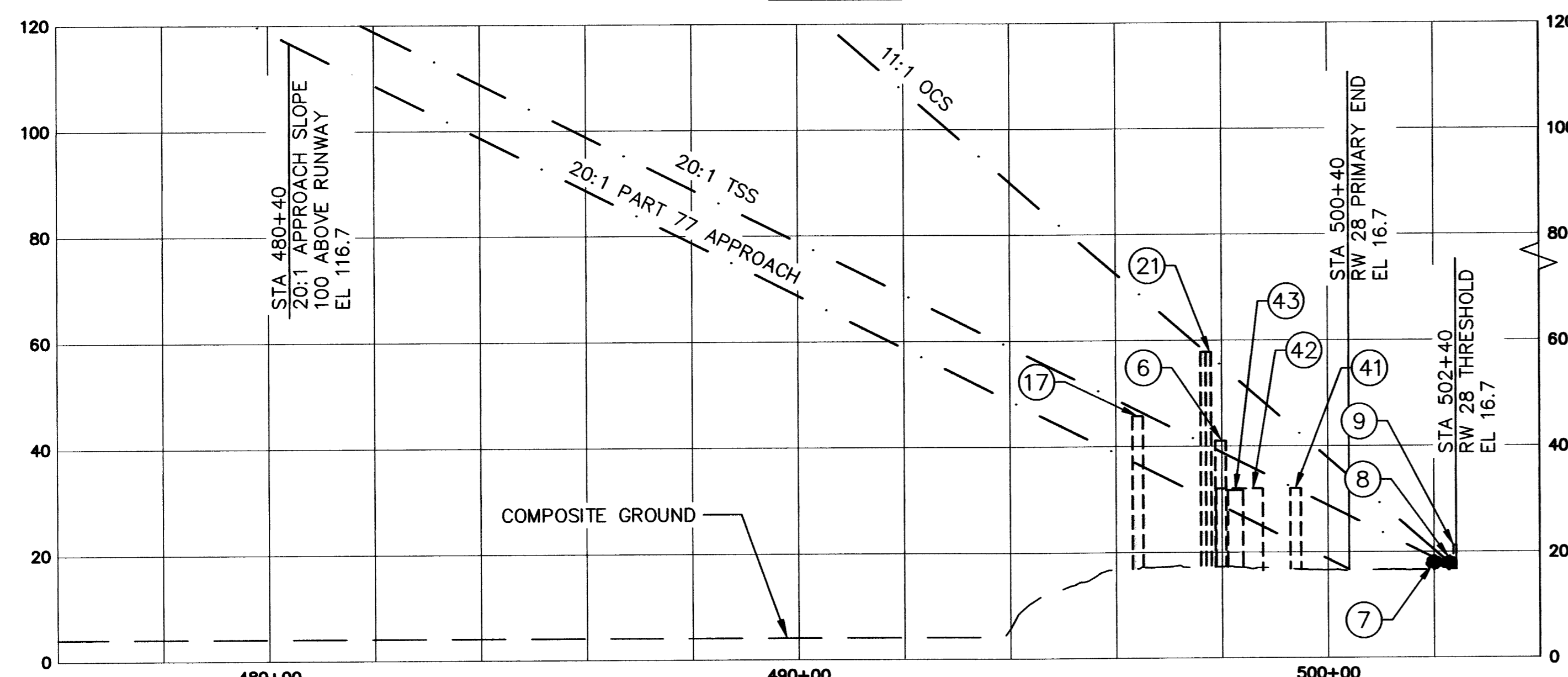
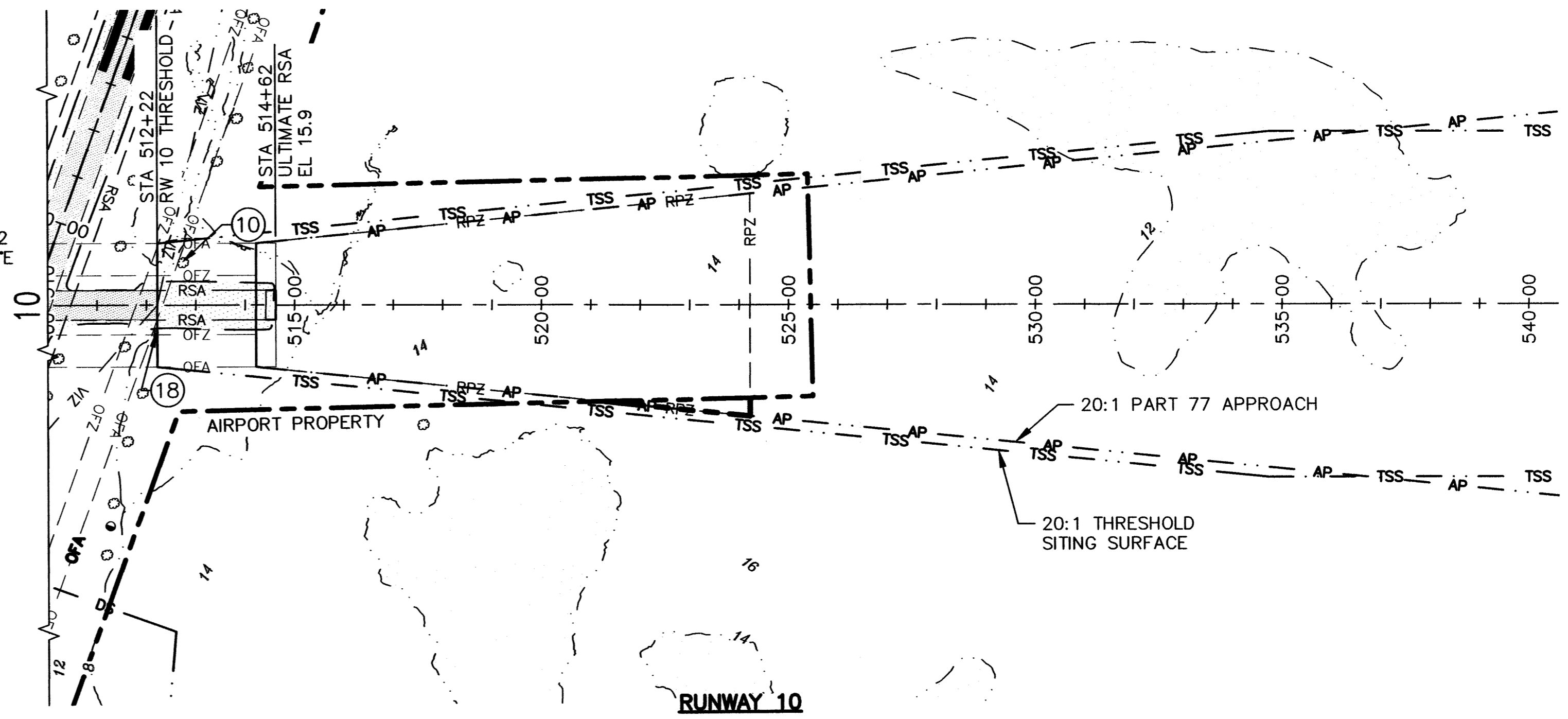
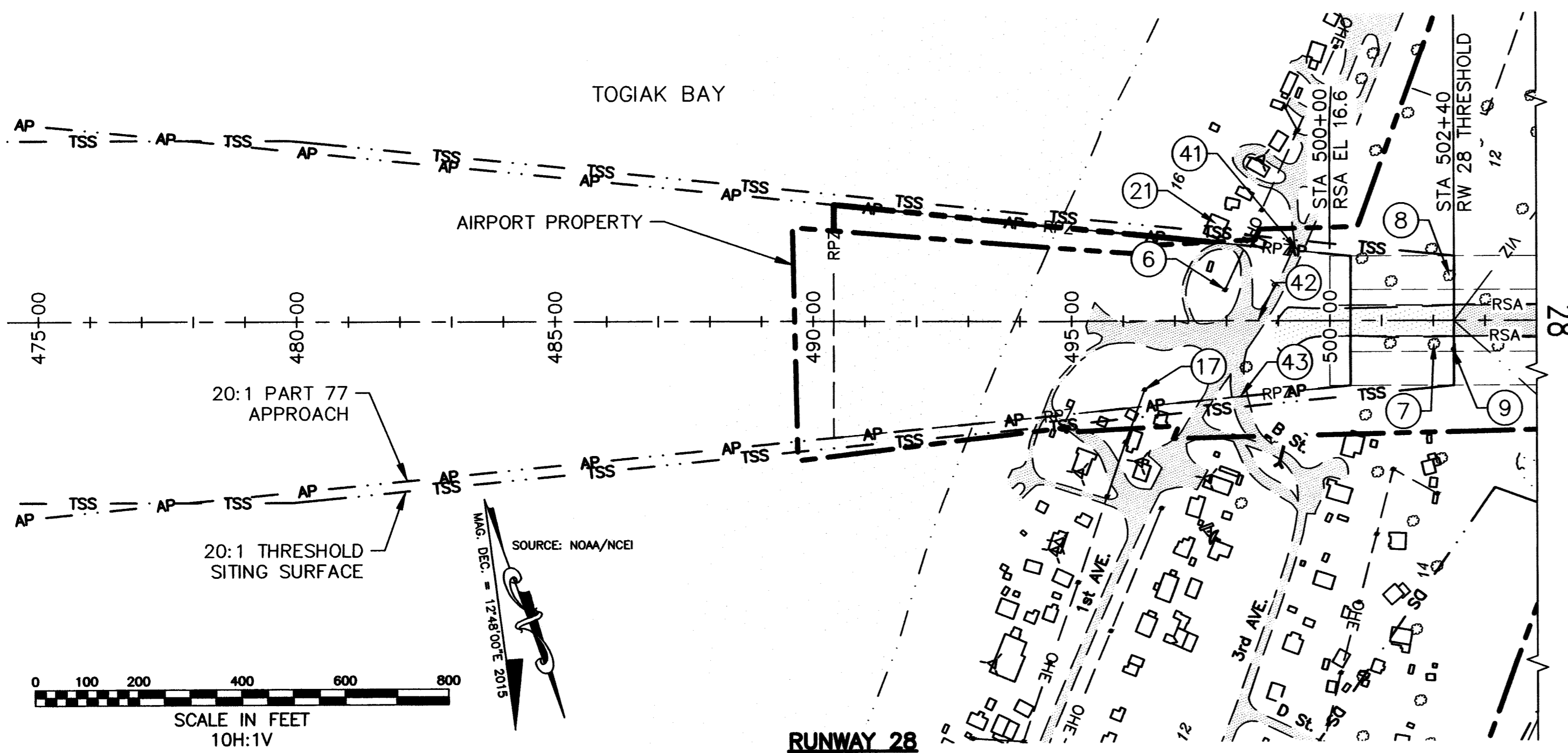
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 EXISTING/ULTIMATE INNER PORTION OF
 THE APPROACH SURFACE - RUNWAY 3/21

DATE: 11/25/2019
 SHEET: 6 OF 12

Date Plotted: 12/04/2015 12:00 PM
 Source Name: 7_NAES_AIRCSA_SURF_RW_10-28
 File Name: U:\2014\0223\Togiak\Map\06-08-07_APPROCH-SURF.dwg
 Designed By: MMW
 Drawn By: RWJ
 Checked By: JGL



ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
6	UTILITY POLE	497+97/60L	45.5	TSS	38.9	6.6	TO REMAIN	N/A
7	BUSH	502+01/46R	21.6	TSS	18.7	2.9	REMOVE	ULTIMATE
8	BUSH	502+31/87L	22.6	TSS	17.2	5.4	REMOVE	ULTIMATE
9	THRESHOLD PANEL	502+39/56R	21.8	TSS	16.8	5.0	REMOVE	ULTIMATE
17	UTILITY POLE	496+41/132R	45.7	TSS	47.5	0.0	TO REMAIN	N/A
21	BUILDING WITH ANTENNA (NOTE 5)	497+70/163L	57.8	TSS	40.5	17.3	TO REMAIN	N/A

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
10	BUSH	512+74/86L	21.2	TSS	18.7	2.5	REMOVE	ULTIMATE
18	THRESHOLD PANEL	512+20/55R	20.5	TSS	16.1	4.4	REMOVE	ULTIMATE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
6	UTILITY POLE	497+97/60L	45.5	PART 77 APPROACH	28.9	6.6	TO REMAIN	N/A
7	BUSH	502+01/46R	21.6	PART 77 PRIMARY	16.7	2.9	REMOVE	ULTIMATE
8	BUSH	502+31/87L	22.6	PART 77 PRIMARY	16.7	5.4	REMOVE	ULTIMATE
9	THRESHOLD PANEL	502+39/56R	21.8	PART 77 PRIMARY	16.7	5.0	REMOVE	ULTIMATE
17	UTILITY POLE	496+41/132R	45.7	PART 77 APPROACH	37.5	0.0	TO REMAIN	N/A
41	ROAD+15	499+38/135L	32.0	PART 77 APPROACH	21.8	10.2	TO REMAIN	N/A
42	ROAD+15	498+61/CL	32.0	PART 77 APPROACH	25.7	6.3	TO REMAIN	N/A
43	ROAD+15	498+26/146R	31.7	PART 77 APPROACH	27.4	4.3	TO REMAIN	N/A

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
10	BUSH	512+74/86L	21.2	PART 77 APPROACH	18.0	5.2	REMOVE	ULTIMATE
18	THRESHOLD PANEL	512+20/55R	20.5	PART 77 PRIMARY	16.0	4.5	REMOVE	ULTIMATE

- NOTES:**
- REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.
 - MAPPING SHOWN ON THIS SHEET IS THE COMBINED TOPOGRAPHIC SURVEY AND CONTROLLED AERIAL MAPPING.
 - THRESHOLD SITING IS DEFINED PER AC 150/5300-13A CHANGE 1, TABLE 3-2, RUNWAY TYPE 2.
 - THE CONTROLLING OBSTRUCTION FOR THE APPROACH TO RUNWAY 28 IS A BUILDING WITH ANTENNA AT 497+70/163L, ELEVATION 57.8. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 11:1 PER FAA AC 150/5200-35, CHAP 4.
 - ANTENNA ELEVATION IN #21 IS ASSUMED TO RISE 13.4 FEET ABOVE THE STRUCTURE.

- NOTES:**
- REFER TO THE AIRPORT AIRSPACE DRAWING FOR PENETRATIONS OF THE OUTER APPROACH SURFACES.
 - MAPPING SHOWN ON THIS SHEET IS THE COMBINED TOPOGRAPHIC SURVEY AND CONTROLLED AERIAL MAPPING.
 - THRESHOLD SITING IS DEFINED PER AC 150/5300-13A CHANGE 1, TABLE 3-2, RUNWAY TYPE 2.

BY	DATE	REVISION

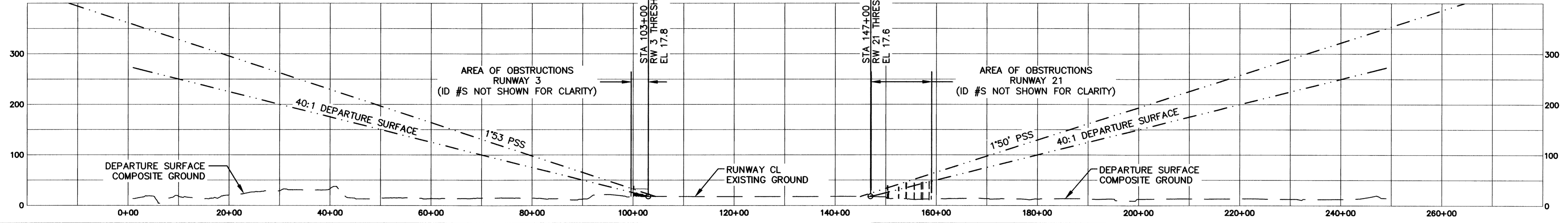
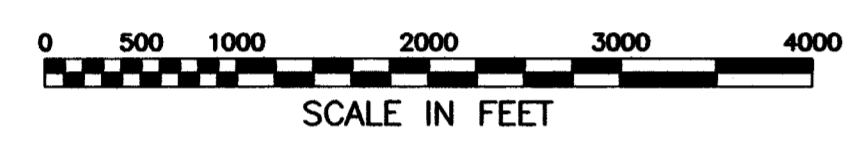
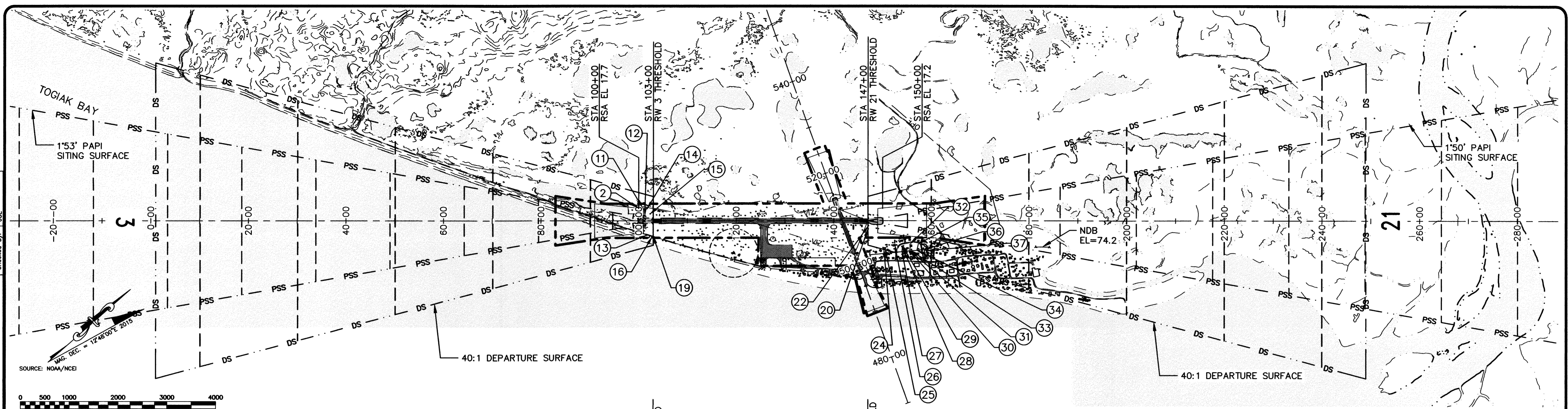
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**TOGIAK AIRPORT
TOGIAK, ALASKA
AIRPORT LAYOUT PLAN**

EXISTING/ULTIMATE INNER PORTION OF THE
APPROACH SURFACE - RUNWAY 10/28

DATE:
11/25/2019
SHEET:
7 OF
12

Designed By: MMW
 Drawn By: RWB
 Checked By: LSL
 Date Plotted: 11/26/2019 10:35 AM
 Layout Name: 8 DEPARTURE SURF RW 03-21
 File Name: U:\2017\02\28\Togiak\03-21\03-21-100-03-DEP-SURF.dwg



RUNWAY 21 - DEPARTURE SURFACE PENETRATION TABLE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
2	UNLIGHTED WIND CONE	100+10/250L	38.4	DEPARTURE	25.1	13.4	RELOCATE	ULTIMATE
11	BUSH	100+81/271L	25.8	DEPARTURE	23.3	2.5	REMOVE	ULTIMATE
12	BUSH	101+30/91L	23.4	DEPARTURE	22.1	1.4	REMOVE	ULTIMATE
13	BUSH	101+63/294R	22.8	DEPARTURE	21.2	1.6	REMOVE	ULTIMATE
14	BUSH	101+74/252L	25.0	DEPARTURE	20.9	4.0	REMOVE	ULTIMATE
15	BUSH	102+39/145L	22.4	DEPARTURE	19.3	3.0	REMOVE	ULTIMATE
16	BUSH	102+73/328R	22.0	DEPARTURE	18.5	3.5	REMOVE	ULTIMATE
19	ROAD +15 (HP)	102+91/315R	33.0	DEPARTURE	18.0	15.0	TO REMAIN	N/A

(HP) = HIGH POINT OF OBSTRUCTION AREA.

RUNWAY 3 - DEPARTURE SURFACE PENETRATION TABLE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENETRATED	DISPOSITION	STAGE TO CORRECT
20	BUSH	147+07/166R	21.0	DEPARTURE	17.8	3.2	REMOVE	ULTIMATE
22	BUSH	147+11/101R	21.5	DEPARTURE	17.9	3.6	REMOVE	ULTIMATE
24	BUILDING	150+32/572R	39.1	DEPARTURE	25.9	13.1	TO REMAIN	N/A
25	BUILDING	150+50/560R	27.8	DEPARTURE	26.4	1.4	TO REMAIN	N/A
26	BUILDING	152+52/498R	36.6	DEPARTURE	31.4	5.2	TO REMAIN	N/A
27	UTILITY POLE	153+97/634R	45.2	DEPARTURE	35.1	10.2	TO REMAIN	N/A
28	CATENARY	154+03/543R	44.9	DEPARTURE	35.2	9.6	TO REMAIN	N/A
29	UTILITY POLE	154+05/513R	44.7	DEPARTURE	35.3	9.5	TO REMAIN	N/A
30	UTILITY POLE	155+59/618R	44.5	DEPARTURE	39.1	5.4	TO REMAIN	N/A
31	CATENARY	155+59/611R	44.5	DEPARTURE	39.1	5.4	TO REMAIN	N/A
32	UTILITY POLE	155+62/478R	43.4	DEPARTURE	39.2	4.2	TO REMAIN	N/A
33	CATENARY	155+63/617R	44.6	DEPARTURE	39.2	5.3	TO REMAIN	N/A
34	UTILITY POLE	157+02/606R	45.6	DEPARTURE	42.7	2.9	TO REMAIN	N/A
35	UTILITY POLE	157+30/473R	46.0	DEPARTURE	43.4	2.6	TO REMAIN	N/A
36	UTILITY POLE	158+56/591R	47.9	DEPARTURE	46.5	1.3	TO REMAIN	N/A
37	ANTENNA	158+99/606R	50.3	DEPARTURE	47.6	2.7	TO REMAIN	N/A

- NOTES:**
- MAPPING SHOWN ON THIS SHEET IS THE COMBINED TOPOGRAPHIC SURVEY AND CONTROLLED AERIAL MAPPING.
 - DEPARTURE SURFACE IS DEFINED PER AC 150/5300-13A CHANGE 1, TABLE 3-2, LINE 9. THE DEPARTURE SURFACE DIMENSIONS ARE 1000x6466x10200. EXTENDING 10200 AT A SLOPE OF 40:1.
 - VERTICAL SCALE IS 10:1 HORIZONTAL.

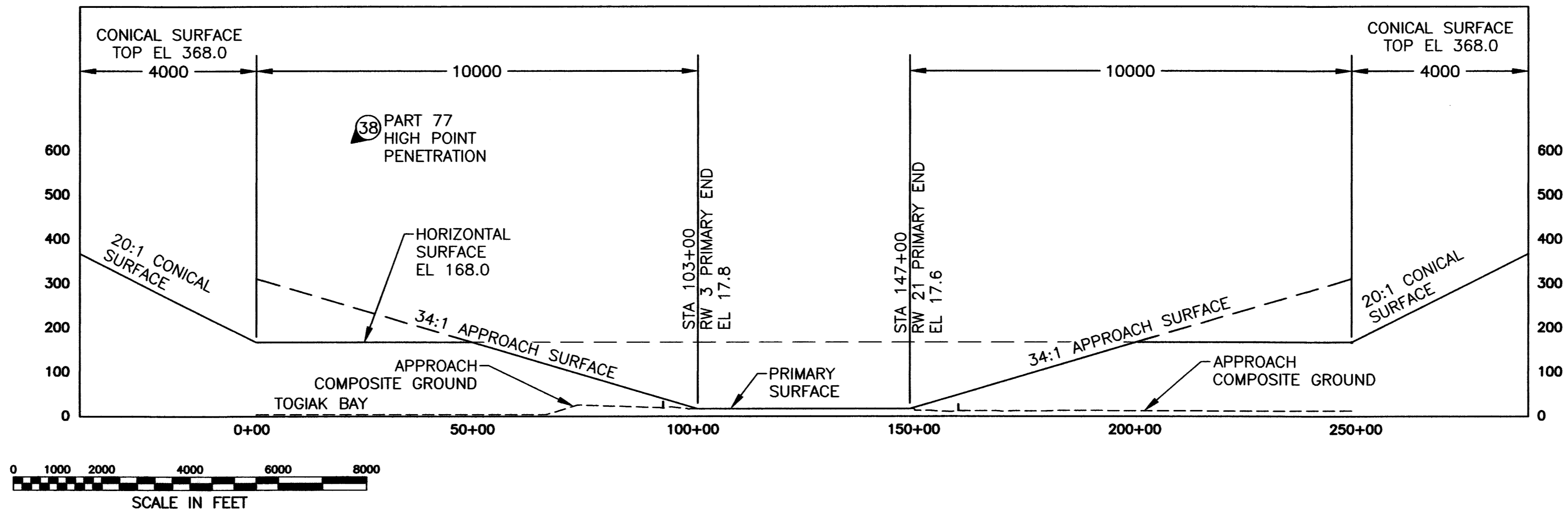
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

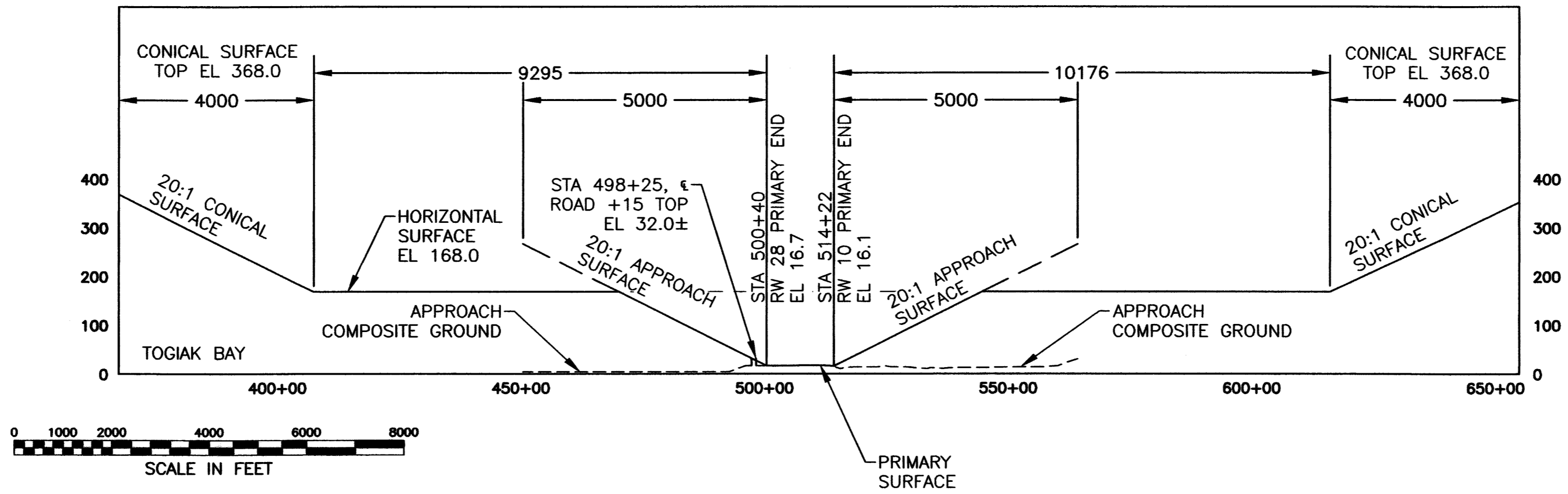
TOGIAK AIRPORT
 TOGIAC, ALASKA
 AIRPORT LAYOUT PLAN
 EXISTING/ULTIMATE DEPARTURE SURFACES
 RUNWAY 3/21

DATE:
 11/25/2019
 SHEET:
 8
 OF
 12

Date Plotted: 11/26/2019, 10:44 AM
 User: jburke
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 Designed By: MMW
 Checked By: JGL



RUNWAY 3/21 PROFILE



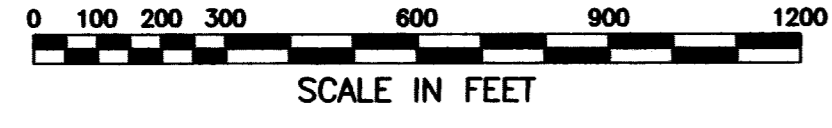
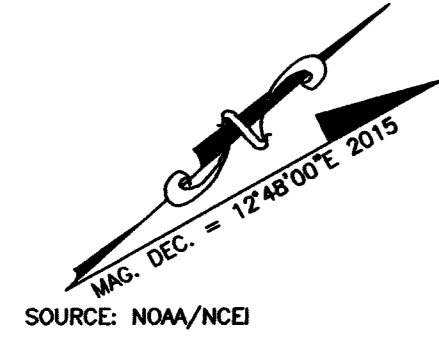
RUNWAY 28/10 PROFILE

BY	DATE	REVISION

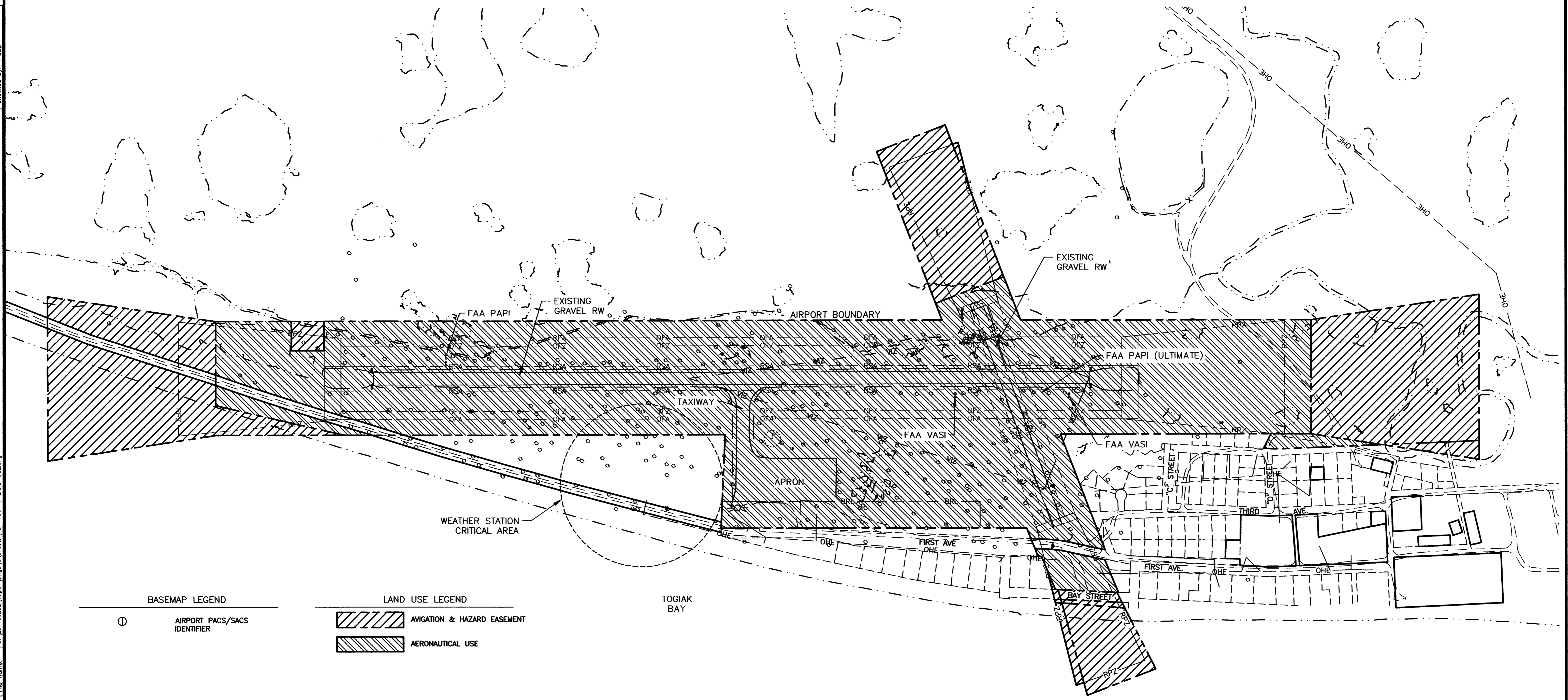
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

TOGIAK AIRPORT
 TOGIAK, ALASKA
 AIRPORT LAYOUT PLAN
 AIRPORT AIRSPACE PROFILES
 (F.A.R. PART 77)

DATE:	11/25/2019
SHEET:	10
OF	12



Date Printed: 11/26/2019 10:47 AM
 User: MM
 File Name: U:\2019\2020\Togiak\Drawings\AUP-10C-11-LAND-USE.dwg
 Designed By: MM
 Drawn By: RW
 Checked By: JGL



BASEMAP LEGEND

Ⓞ AIRPORT PACS/SACS IDENTIFIER

LAND USE LEGEND

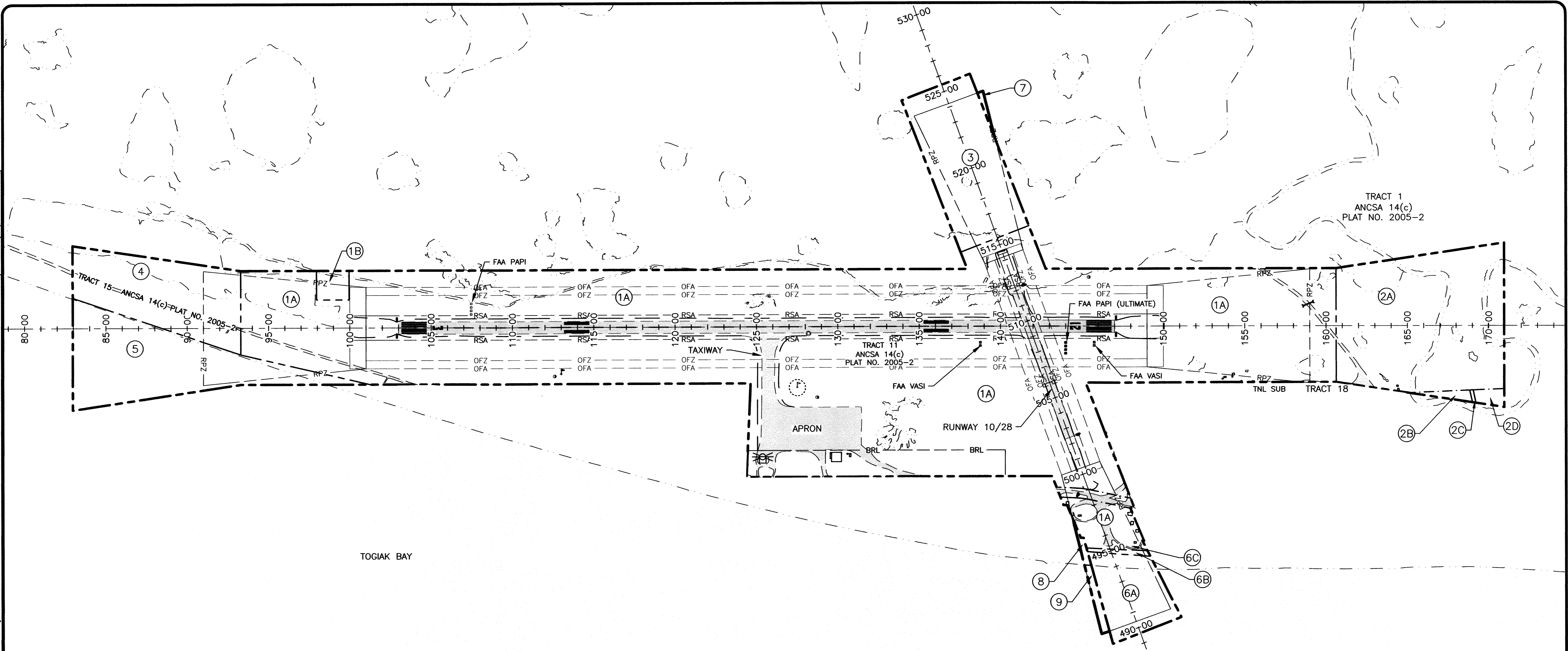
- AVIGATION & HAZARD EASEMENT
- AERONAUTICAL USE

NOTE:
1. NO NON-AERONAUTICAL USES ON AIRPORT PROPERTY.

BY	DATE	REVISION

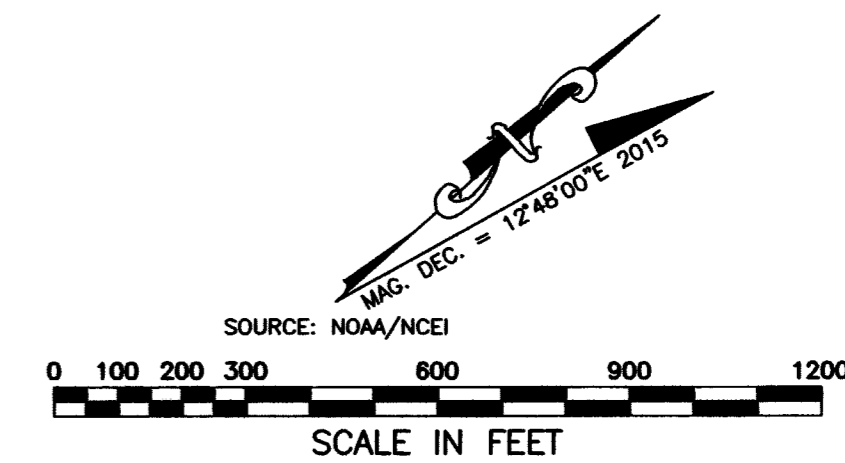
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	
TOGIAK AIRPORT TOGIAK, ALASKA AIRPORT LAYOUT PLAN	DATE: 11/25/2019 SHEET: 11 OF 12
LAND USE	

Date Plotted: 11/28/2019 10:53 AM
 Project Name: ALP-7
 File Name: U:\20170282\Togiak\Drawings\Sheets\ALP-10C-12-PROP-MAP.dwg
 Designed By: MAM
 Drawn By: RWL
 Checked By: LGL



TRACT/PARCEL	GRANTOR	GRANTEE	AREA ACRES	INTEREST	ADA DOCUMENT NO.	RECORDED DOCUMENT NO.	DATE ACQUIRED	AIP NUMBER	STATE NUMBER	LEASE/EASEMENT EXPIRATION
1A	CITY OF TOGIAK	STATE, DOT&PF	140.682	FEE TITLE SURFACE ESTATE	11398	Bk. 23 Pg. 890-900	3/26/1981	N/A	D44021	PERPETUAL
1B	CITY OF TOGIAK	STATE, DOT&PF	0.826	AVIGATION, HAZARD ESMT. & R.O.W.	11399	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
2A	CITY OF TOGIAK	STATE, DOT&PF	19.484	AVIGATION, HAZARD ESMT. & R.O.W.	11400	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
2B	CITY OF TOGIAK	STATE, DOT&PF	0.329	AVIGATION, HAZARD ESMT. & R.O.W.	11400	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
2C	CITY OF TOGIAK	STATE, DOT&PF	0.036	AVIGATION, HAZARD ESMT. & R.O.W.	11400	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
2D	CITY OF TOGIAK	STATE, DOT&PF	0.433	AVIGATION, HAZARD ESMT. & R.O.W.	11400	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
3	CITY OF TOGIAK	STATE, DOT&PF	10.331	AVIGATION, HAZARD ESMT. & R.O.W.	11401	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
4	CITY OF TOGIAK	STATE, DOT&PF	9.923	AVIGATION, HAZARD ESMT. & R.O.W.	11402	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
5	DEPT. OF NAT. RESOURCES	STATE, DOT&PF	11.500	AVIGATION, HAZARD ESMT. & R.O.W.	11403	Bk. 24 Pg. 11-16	4/20/1981	N/A	D44021	PERPETUAL
6A	DEPT. OF NAT. RESOURCES	STATE, DOT&PF	4.614	AVIGATION, HAZARD ESMT. & R.O.W.	11404	Bk. 24 Pg. 11-16	4/20/1981	N/A	D44021	PERPETUAL
6B	CITY OF TOGIAK	STATE, DOT&PF	0.239	AVIGATION, HAZARD ESMT. & R.O.W.	11405	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
6C	CITY OF TOGIAK	STATE, DOT&PF	0.507	AVIGATION, HAZARD ESMT. & R.O.W.	11405	Bk. 24 Pg. 17-30	4/21/1981	N/A	D44021	PERPETUAL
7	CITY OF TOGIAK	STATE, DOT&PF	0.121	AVIGATION, HAZARD ESMT. & R.O.W.		TO BE ACQUIRED				
8	CITY OF TOGIAK	STATE, DOT&PF	0.099	AVIGATION, HAZARD ESMT. & R.O.W.		TO BE ACQUIRED				
9	DEPT. OF NAT. RESOURCES	STATE, DOT&PF	0.513	AVIGATION, HAZARD ESMT. & R.O.W.		TO BE ACQUIRED				

RECORDING DISTRICT FOR TOGIAK IS 307-BRISTOL BAY



STATE OF ALASKA	
DEPARTMENT OF TRANSPORTATION	
AND PUBLIC FACILITIES	
CENTRAL REGION	
TOGIAK AIRPORT	DATE: 11/25/2019
TOGIAK, ALASKA	SHEET: 12
AIRPORT LAYOUT PLAN	OF
AIRPORT PROPERTY MAP	12
BY	DATE
REVISION	