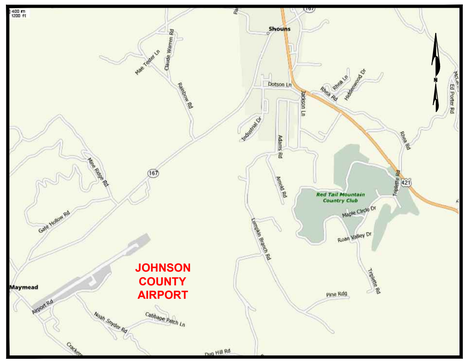
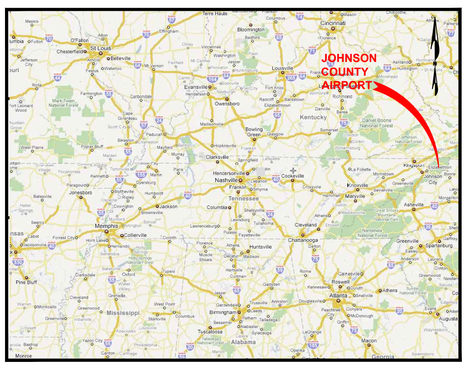
AIRPORT LAYOUT PLAN UPDATE

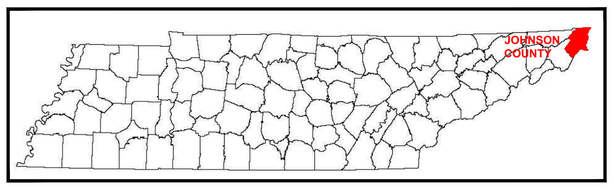
JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TENNESSEE



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



TENNESSEE STATE MAP
NOT TO SCALE

PREPARED FOR:

JOHNSON COUNTY TENNESSEE

DECEMBER 2022
TAD PROJECT NO. 46-555-0127-21

PREPARED BY:

Michael Baker
INTERNATIONAL

LIST OF OFFICIALS, STAFF, AND AIRPORT MANAGEMENT
GOVERNOR - BILL LEE
TDOT INTERIM COMMISSIONER - JOE GALBATO, III
TDOT INTERIM AERONAUTICS DIVISION DIRECTOR - JAY NORRIS
TDOT AERONAUTICS ASSISTANT DIRECTOR OF DEVELOPMENT - JOHN PAUL SAALWAECHTER, P.E.
TDOT AERONAUTICS PROJECT MANAGER - CHUCK HOSKINS
TDOT AERONAUTICS DIVISION PLANNING - ERIN BURKLE
AIRPORT MANAGER - DAVE GARRIS

INDEX OF SHEETS

DRAWING NO.	DESCRIPTION	REV. DATE
1	TITLE SHEET	DECEMBER 2022
2	AIRPORT DATA SHEET	DECEMBER 2022
3	AIRPORT LAYOUT DRAWING	DECEMBER 2022
4	TERMINAL AREA DRAWING - SOUTHEAST	DECEMBER 2022
5	TERMINAL AREA DRAWING - NORTHWEST	DECEMBER 2022
6	AIRPORT AIRSPACE DRAWING (1 OF 2)	DECEMBER 2022
7	AIRPORT AIRSPACE DRAWING (2 OF 2)	DECEMBER 2022
8	INNER PORTION OF APPROACH SURFACE DRAWING RUNWAY 7	DECEMBER 2022
9	INNER PORTION OF APPROACH SURFACE DRAWING RUNWAY 25	DECEMBER 2022
10	RUNWAY DEPARTURE SURFACE DRAWING RUNWAY 7-25	DECEMBER 2022
11	AIRPORT LAND USE DRAWING	DECEMBER 2022
12	CAPITAL IMPROVEMENT PLAN	DECEMBER 2022
13	EXHIBIT "A" PROPERTY INVENTORY MAP	DECEMBER 2022

REVISIONS

NO.	DESCRIPTION	DATE	BY

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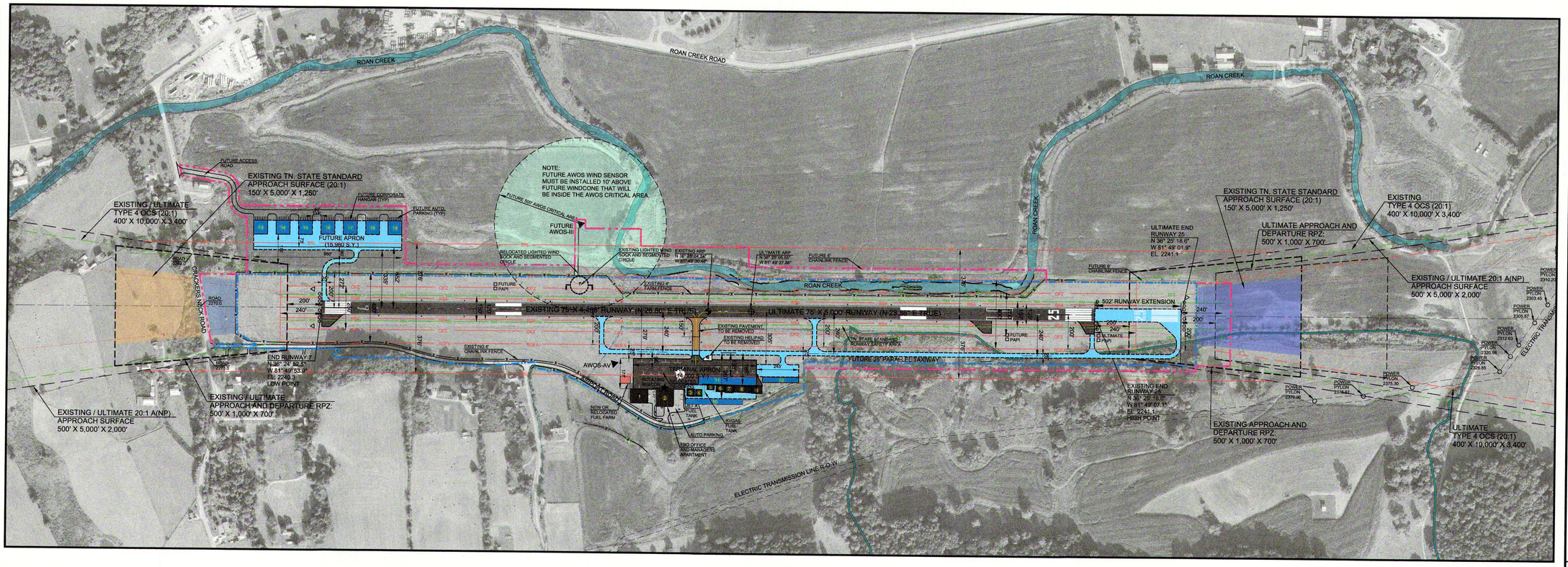
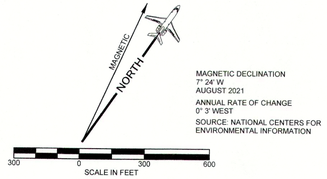
Saved: Dec 20, 2022 - 11:56am by Robert Farrar | Plotted: Dec 21, 2022 - 8:15am





MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

AIRPORT LAYOUT DRAWING

SCALE: 1" = 300'

AIRPORT DATA

CITY: MOUNTAIN CITY COUNTY: JOHNSON STATE: TENNESSEE

DESCRIPTION		EXISTING	ULTIMATE
FAA SITE NUMBER		23115.*A	SAME
FAA AIRPORT INDENTIFER		6A4	SAME
AIRPORT REFERENCE CODE		B-I	SAME
AIRPORT ELEVATION		2,241.1'	SAME
MEAN MAXIMUM TEMPERATURE (JULY)		84°	SAME
AIRPORT ACREAGE (APPROX.)		80	98
AIRPORT & TERMINAL NAVAIDS		BEACON (SS-SR), RNAV, GPS	SAME
AIRPORT REFERENCE POINT (NAD 83)	LAT.	N 36° 25' 04.24"	N 36° 25' 05.55"
	LONG.	W 81° 49' 30.48"	W 81° 49' 27.86"
MISCELLANEOUS FACILITIES		LIGHTED WIND CONE, SEGMENTED CIRCLE, AND AWOS-AV	LIGHTED WIND CONE, SEGMENTED CIRCLE, AND AWOS
CRITICAL AIRCRAFT		CESSNA 414	SAME
AIRPORT MAGNETIC VARIATION (2021) (NOAA)		7° 24' W	0° 3' W / YEAR
NPIAS SERVICE LEVEL AND ROLE		GA LOCAL	SAME
STATE EQUIVALENT SERVICE ROLE		COMMUNITY SERVICE	SAME

ULTIMATE BUILDING LEGEND

NO.	DESCRIPTION	TOP ELEV.	OBST. LIGHTING
1	80' X 100' HANGAR	2,267.73	NONE
2	TERMINAL BUILDING	2,265.80'	NONE
3	44' X 44' HANGAR	2,267.63'	NONE
4	42' X 45' HANGAR	2,265.11'	NONE
5	30' X 45' HANGAR	2,252.34	NONE
6	40' X 50' HANGAR	2,258.54'	NONE
7	44' X 50' HANGAR	2,264.88'	NONE
8	40' X 100' CORPORATE HANGAR	2,261.32'	NONE
9	42' X 62' HANGAR	2,269.00'	NONE
10	FUTURE 8-UNIT CONDO HANGAR	TBD	NONE
11	FUTURE 15-UNIT T-HANGAR	TBD	NONE
12	FUTURE 5-UNIT CONDO HANGAR	TBD	NONE
13	FUTURE CORPORATE HANGAR	TBD	NONE
14	FUTURE CORPORATE HANGAR	TBD	NONE
15	FUTURE CORPORATE HANGAR	TBD	NONE
16	FUTURE CORPORATE HANGAR	TBD	NONE
17	FUTURE CORPORATE HANGAR	TBD	NONE
18	FUTURE CORPORATE HANGAR	TBD	NONE
19	FUTURE CORPORATE HANGAR	TBD	NONE

NOTE:

DURING FUTURE DEVELOPMENT, BUILDINGS 3-9 WILL BE REMOVED TO ACCOMMODATE THE FUTURE APRON EXPANSION AND BUILDINGS 10 AND 11.

MODIFICATIONS TO STANDARDS

DESCRIPTION
NO MODIFICATIONS TO STANDARDS

CONDITIONALLY APPROVED

Signature: 8/22/23 Date

Printed Name: CHRISTOPHER STARR, P.E.

State Block Grant Program
Tennessee Dept. of Transportation
Subject to comments in Approval Letter

AIRPORT SPONSOR APPROVAL

THIS AIRPORT DRAWING IS APPROVED BY:

(SIGNATURE) DATE: 8. 14. 2023

NAME: LARRY POTTER

TITLE: Johnson County Mayor

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
PROPERTY LINE		
AIRPORT BUILDINGS		
AIRPORT PAVEMENT		
AIRPORT PAVEMENT REMOVAL		
PAVED ROADWAY		
GRAVEL OR DIRT ROADWAY		
EXISTING OFF AIRPORT BUILDINGS		SAME
RUNWAY MARKINGS	N	N
RUNWAY PROTECTION ZONE (RPZ)		
ROTATING BEACON	★	SAME
AIRPORT REFERENCE POINT (ARP)		
SURVEY MONUMENTS (PACS/SACS)		SAME
RUNWAY CENTERLINE		SAME
TN. STATE APPROACH STANDARD		SAME
RUNWAY SAFETY AREA (RSA)	RSA	SAME
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	SAME
RUNWAY OBSTACLE FREE ZONE (ROFZ)	OFZ	SAME
BUILDING RESTRICTION LINE (18')	BRL	SAME
TSA	TSA	TSA
FENCE	x x x	x x x
THRESHOLD LIGHTS	N/A	oooo
REILS	N/A	▽
PAPI OR VASI	N/A	□□
NAVAID CRITICAL AREA	N/A	N/A
TREES / BRUSH		N/A
GROUND CONTOURS	480	N/A
EXISTING DITCH LINE		N/A
HOLDING POSITION LINE		

JOHNSON COUNTY, TENNESSEE 1836 VOLUNTEER STATE PRIDE IN DIVERSITY

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. EXISTING HOLDLINE MARKINGS FOR RUNWAY / TAXIWAY INTERSECTIONS ARE 150' FROM RUNWAY CENTERLINE AND PERPENDICULAR TO TAXIWAY CENTERLINE. ULTIMATE HOLDLINE MARKINGS WILL BE 200' FROM RUNWAY CENTERLINE.
2. COORDINATES SHOWN ARE IN NAD83/NAVD88.
3. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL). GROUND CONTOURS FOR THE FULL MAPPING AREA ARE NOT AVAILABLE.
4. SEE AIRPORT PROPERTY MAP (DRAWING 13) FOR PROPERTY LINE METES AND BOUNDS AS WELL AS FUTURE EASEMENT AND PROPERTY ACQUISITIONS.
5. SEE RUNWAY DEPARTURE SURFACE DRAWING (SHEET 10) FOR TYPE 7 DEPARTURE SURFACE INFORMATION.
6. THERE ARE OFZ OBJECT PENETRATIONS.
7. THERE ARE THRESHOLD SITING SURFACE OBJECT PENETRATIONS.
8. BUILDING RESTRICTION LINES (BRL) ARE BASED ON THE FOLLOWING: BRL LINES PARALLEL TO RUNWAYS ARE BASED ON A TRANSITIONAL SURFACE ELEVATION OF 25' OR MOST DEMANDING DESIGN STANDARD.
9. BASE MAPPING WAS DEVELOPED BY QUANTUM, SPATIAL FROM FIELD SURVEYS DELIVERED IN NOVEMBER, 2020.
10. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS. ACTUAL ELEVATIONS ARE SHOWN ON THE PLAN:
    1. SEVENTEEN FEET FOR AN INTERSTATE HIGHWAY THAT IS PART OF THE NATIONAL SYSTEM OF MILITARY AND INTERSTATE HIGHWAYS WHERE OVERCROSSINGS ARE DESIGNED FOR A MINIMUM OF 17 FEET VERTICAL DISTANCE.
    A. FIFTEEN FEET FOR ANY OTHER PUBLIC ROADWAY.
    B. TEN FEET OR THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE THE ROAD, WHICHEVER IS GREATER, FOR A PRIVATE ROAD.
    C. TWENTY-THREE FEET FOR A RAILROAD, AND
    D. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

Project Name: **AIRPORT LAYOUT PLAN UPDATE**

Drawing Name: AIRPORT LAYOUT DRAWING

TAD Project Number: 46-555-0127-21

Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) 1"=300'	Sheet Number:
	Drawing Number: 3

O:\6A4 - Johnson County Airport\180617_2000 ALP Update\Drawings\2021 ALP SET\Plan\03-6A4-ALP.dwg Modified: Dec 21, 2022 - 6:45am Plotted: Dec 22, 2022 - 5:19am Robert Farrar

RUNWAY DATA TABLE

RUNWAY IDENTIFICATION		7		25	
		EXISTING	ULTIMATE	EXISTING	ULTIMATE
RUNWAY DESIGN CODE (RDC)		B/I/5000	SAME	B/I/5000	SAME
APPROACH REFERENCE CODE (APRC)		N/A	B/I/5000	N/A	B/I/5000
DEPARTURE REFERENCE CODE (DPRC)		N/A	B-I	N/A	B-I
PAVEMENT MATERIAL TYPE		ASPHALT	SAME	ASPHALT	SAME
PAVEMENT STRENGTH	DOUBLE WHEEL (LBS)	26,000	SAME	26,000	SAME
	DOUBLE TANDEM (LBS)	37,000	SAME	37,000	SAME
SURFACE TREATMENT		NONE	SAME	NONE	SAME
EFFECTIVE RUNWAY GRADIENT		0.02%	SAME	-0.02%	SAME
RUNWAY WIND COVERAGE (BI-DIRECTIONAL)					
ALL WEATHER					
10.5KTS/12MPH		64.08%	SAME	82.82%	SAME
13KTS/15MPH		64.20%	SAME	83.41%	SAME
16KTS/18MPH		64.33%	SAME	83.77%	SAME
VFR					
10.5KTS/12MPH		62.59%	SAME	82.28%	SAME
13KTS/15MPH		62.71%	SAME	82.87%	SAME
16KTS/18MPH		62.84%	SAME	83.22%	SAME
IFR					
10.5KTS/12MPH		72.02%	SAME	86.12%	SAME
13KTS/15MPH		72.14%	SAME	86.72%	SAME
16KTS/18MPH		72.28%	SAME	87.12%	SAME
RUNWAY DIMENSIONS (LENGTH X WIDTH)		4,498' X 75'	5,000' X 75'	4,498' X 75'	5,000' X 75'
DISPLACED THRESHOLD (LENGTH)		NONE	NONE	NONE	NONE
DISPLACED THRESHOLD ELEVATION (NAVD 88)		N/A	N/A	N/A	N/A
RUNWAY SAFETY AREA (RSA) DIMENSIONS (LENGTH X WIDTH)		4,978' X 120'	5,480' X 120'	4,978' X 120'	5,480' X 120'
RUNWAY OBJECT FREE AREA (ROFA) DIMENSIONS (LENGTH X WIDTH)		4,978' X 400'	5,480' X 400'	4,978' X 400'	5,480' X 400'
RUNWAY OBSTACLE FREE ZONE (ROFZ) DIMENSIONS (LENGTH X WIDTH)		4,898' X 250'	5,400' X 250'	4,898' X 250'	5,400' X 250'
PRECISION OBSTACLE FREE ZONE (POFZ) (FROM THRESHOLD 200' LONG BY 800' WIDE)		NO	NO	NO	NO
RUNWAY SHOULDER WIDTH		N/A	N/A	N/A	N/A
RUNWAY END COORDINATES (NAD83)	LATITUDE	N 36° 24' 52.5"	SAME	N 36° 25' 16.0"	N 36° 25' 18.6"
	LONGITUDE	W 81° 49' 53.9"	SAME	W 81° 49' 07.1"	W 81° 49' 01.9"
RUNWAY END ELEVATIONS		2,240.3'	SAME	2,241.1'	SAME
RUNWAY LIGHTING		NO	MIRL	NO	MIRL
APPROACH AND DEPARTURE RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	LENGTH	1,000'	SAME	1,000'	SAME
	INNER WIDTH	500'	SAME	500'	SAME
	OUTER WIDTH	700'	SAME	700'	SAME
RUNWAY MARKINGS		NONPRECISION	SAME	NONPRECISION	SAME
FAR PART 77 APPROACH SURFACE SLOPE		20:1 A(NP)	SAME	20:1 A(NP)	SAME
APPROACH TYPE		NONPRECISION	SAME	NONPRECISION	SAME
VISIBILITY MINIMUMS		1-1/4 MILE	SAME	1-1/4 MILE	SAME
TYPE OF AERONAUTICAL SURVEY		NVGS	SAME	NVGS	SAME
RUNWAY DEPARTURE SURFACE		YES	SAME	YES	SAME
THRESHOLD SITING SURFACE (TSS)		TYPE 4 (20:1)	SAME	TYPE 4 (20:1)	SAME
TSS PENETRATION	CONTROLLING OBJECT	TREE	SAME	TREE	SAME
	PENETRATION	VARIES	SAME	VARIES	SAME
	DISPOSITION	REMOVE	SAME	REMOVE	SAME
VISUAL AND INSTRUMENT NAVAIDS		RNAV, GPS, BEACON, VOR	PAPI-2, RNAV, GPS, BEACON,VOR, REIL	RNAV, GPS, BEACON, VOR	PAPI-2, RNAV, GPS, BEACON,VOR, REIL
TOUCHDOWN ZONE ELEVATION (NAVD 88)		2,240.9'	SAME	2,241.1'	SAME

TAXIWAY DATA TABLE

RUNWAY IDENTIFICATION	7		25	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAXIWAY DESIGN GROUP (TDG)	TDG-1A	SAME	TDG-1A	SAME
TAXIWAY WIDTH	40'	25'	40'	25'
TAXIWAY SAFETY AREA DIMENSIONS	49'	SAME	49'	SAME
TAXIWAY OBJECT FREE AREA DIMENSIONS	89'	SAME	89'	SAME
TAXIWAY LIGHTING	MITL	SAME	MITL	SAME
TAXIWAY EDGE SAFETY MARGIN	5.0'	SAME	5.0'	SAME
TAXIWAY SHOULDER WIDTH	N/A	10'	N/A	10'
TAXIWAY TO TAXILANE SEPARATION	N/A	80'	N/A	80'

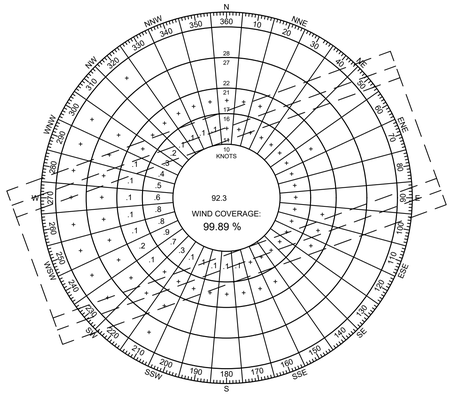
DECLARED DISTANCES TABLE

	7		25	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAKE OFF RUN AVAILABLE (TORA)	4,498'	5,000'	4,498'	5,000'
TAKE OFF DISTANCE AVAILABLE (TODA)	4,498'	5,000'	4,498'	5,000'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	4,498'	5,000'	4,498'	5,000'
LANDING DISTANCE AVAILABLE (LDA)	4,498'	5,000'	4,498'	5,000'

AIRPORT SURVEY MONUMENTS

POINT ID	DESCRIPTION	LATITUDE	LONGITUDE	ELEVATION
	NO NGS MONUMENTS NOTED AT THE AIRPORT			

ALL WEATHER

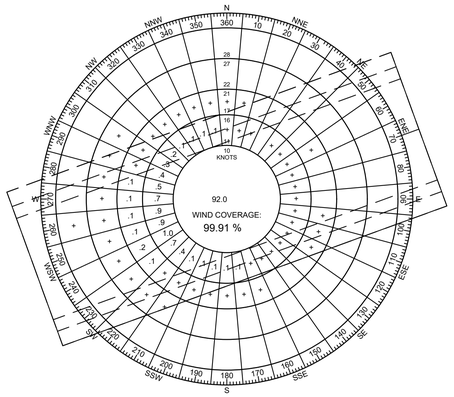


RUNWAY END COVERAGE

RUNWAY	10.5 KTS 12 MPH	13 KTS 15 MPH	16 KTS 18 MPH
7*	64.08%	64.20%	64.33%
25*	82.82%	83.41%	83.77%
7-25	98.69%	99.40%	99.89%

SOURCE: NATIONAL CLIMATIC DATA CENTER
LOCATION: 723350 TRI-CITIES REGIONAL TN/VA AIR AIRPORT
PERIOD: 2011 - 2020

VFR

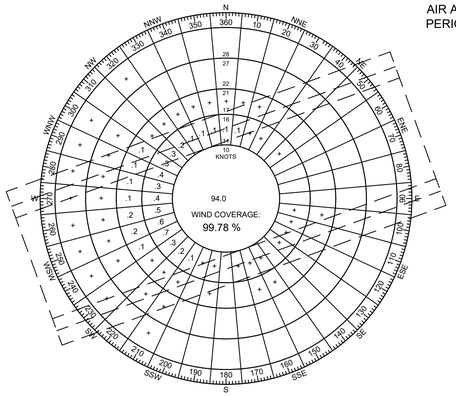


RUNWAY END COVERAGE

RUNWAY	10.5 KTS 12 MPH	13 KTS 15 MPH	16 KTS 18 MPH
7*	62.59%	62.71%	62.84%
25*	82.28%	82.87%	83.22%
7-25	98.72%	99.43%	99.91%

SOURCE: NATIONAL CLIMATIC DATA CENTER
LOCATION: 723350 TRI-CITIES REGIONAL TN/VA AIR AIRPORT
PERIOD: 2011 - 2020

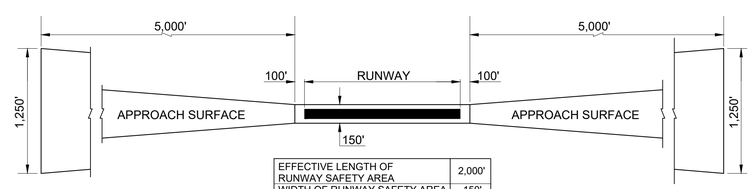
IFR



RUNWAY END COVERAGE

RUNWAY	10.5 KTS 12 MPH	13 KTS 15 MPH	16 KTS 18 MPH
7*	72.02%	72.14%	72.28%
25*	86.12%	86.72%	87.12%
7-25	98.52%	99.24%	99.78%

SOURCE: NATIONAL CLIMATIC DATA CENTER
LOCATION: 723350 TRI-CITIES REGIONAL TN/VA AIR AIRPORT
PERIOD: 2011 - 2020



EFFECTIVE LENGTH OF RUNWAY SAFETY AREA	2,000'
WIDTH OF RUNWAY SAFETY AREA	150'
WIDTH OF RUNWAY	40'
MAX. EFFECTIVE GRADIANT	* 2.0%
SLOPE OF APPROACH SURFACE	20:1

* MINIMUM LENGTH INCREASED 10% FOR EACH 1.0% OF EFFECTIVE GRADIANT.

DETAIL - TENNESSEE DEPT. OF TRANSPORTATION MINIMUM AIRPORT STANDARDS
SCALE: NONE

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer: Robert D. Farrar	Checked by: Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD 88 AND ARE ABOVE MEAN SEA LEVEL (AMSL).
3. FOR THIS RUNWAY, RUNWAY EDGE STRIPES, WHILE IN PLACE, ARE NOT REQUIRED AND WILL NOT BE AIP ELIGIBLE.
4. DUE TO SPACE CONSTRAINTS, PLEASE REFER TO SHEET 3, AIRPORT LAYOUT DRAWING FOR ADDITIONAL AIRPORT DATA TABLE INFORMATION.
5. THE WIND DATA REFLECTED ON THIS SHEET IS THE LATEST DATA FOR JOHNSON COUNTY AIRPORT.

REVISIONS

No.	Description	Date	By

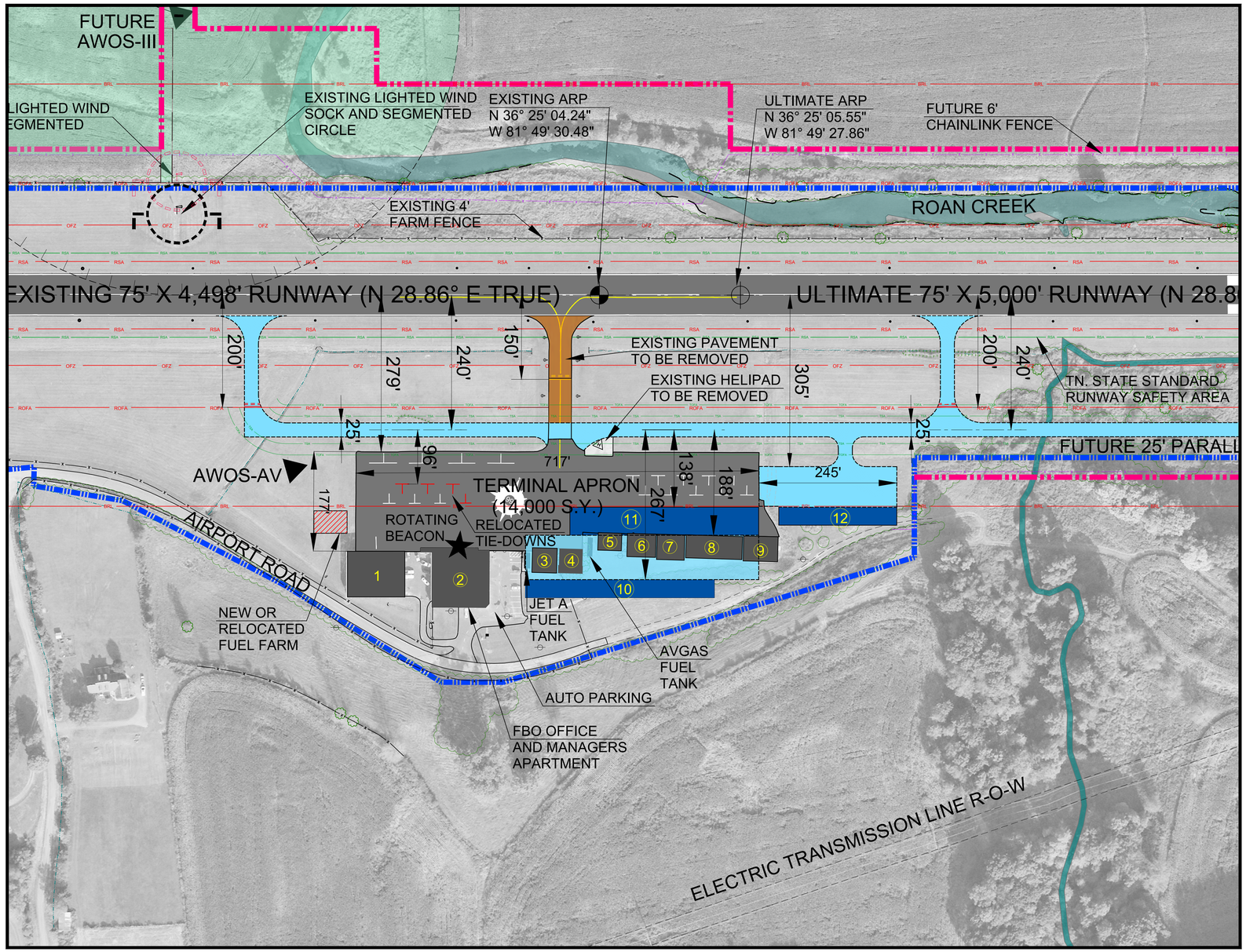
Project Name: **AIRPORT LAYOUT PLAN UPDATE**

Drawing Name: **AIRPORT DATA SHEET**

TAD Project Number: **46-555-0127-21**

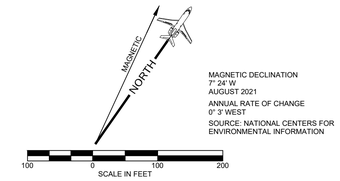
Date: DECEMBER 2022	Division: PLANNING
Scale: (24X36) NONE	Sheet Number:
	Drawing Number: 2

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\02-6A4- Airport Data Sheet.dwg Modified: Dec 21, 2022 - 6:22am Plotted: Dec 22, 2022 - 5:16am Robert.Farrar



TERMINAL AREA PLAN - SOUTHEAST

SCALE: 1" = 100'



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021
ANNUAL RATE OF CHANGE
0° 3' WEST
SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
PROPERTY LINE		
AIRPORT BUILDINGS		
AIRPORT PAVEMENT		
AIRPORT PAVEMENT REMOVAL		
PAVED ROADWAY		
GRAVEL OR DIRT ROADWAY		
EXISTING OFF AIRPORT BUILDINGS		SAME
RUNWAY MARKINGS		
RUNWAY PROTECTION ZONE (RPZ)		
ROTATING BEACON		SAME
AIRPORT REFERENCE POINT (ARP)		
SURVEY MONUMENTS (PACS/SACS)		SAME
RUNWAY CENTERLINE		SAME
TN. STATE APPROACH STANDARD		SAME
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (ROFZ)	OFZ	SAME
BUILDING RESTRICTION LINE (18')	BRL	SAME
TSA	TSA	TSA
FENCE	x x x	x x x
THRESHOLD LIGHTS	N/A	oooo
REILS	N/A	▽
PAPI OR VASI	N/A	□□
NAVAID CRITICAL AREA	N/A	N/A
TREES / BRUSH		N/A
GROUND CONTOURS	480	N/A
EXISTING DITCH LINE		N/A
HOLDING POSITION LINE		

ULTIMATE BUILDING LEGEND

NO.	DESCRIPTION	TOP ELEV.	OBST. LIGHTING
1	80' X 100' HANGAR	2,267.73	NONE
2	TERMINAL BUILDING	2,265.80'	NONE
3	44' X 44' HANGAR	2,267.63'	NONE
4	42' X 45' HANGAR	2,265.11'	NONE
5	30' X 45' HANGAR	2,252.34	NONE
6	40' X 50' HANGAR	2,258.54'	NONE
7	44' X 50' HANGAR	2,264.88'	NONE
8	40' X 100' CORPORATE HANGAR	2,261.32'	NONE
9	42' X 62' HANGAR	2,269.00'	NONE
10	FUTURE 8-UNIT CONDO HANGAR	TBD	NONE
11	FUTURE 15-UNIT T-HANGAR	TBD	NONE
12	FUTURE 5-UNIT CONDO HANGAR	TBD	NONE
13	FUTURE CORPORATE HANGAR	TBD	NONE
14	FUTURE CORPORATE HANGAR	TBD	NONE
15	FUTURE CORPORATE HANGAR	TBD	NONE
16	FUTURE CORPORATE HANGAR	TBD	NONE
17	FUTURE CORPORATE HANGAR	TBD	NONE
18	FUTURE CORPORATE HANGAR	TBD	NONE
19	FUTURE CORPORATE HANGAR	TBD	NONE

NOTE:

DURING FUTURE DEVELOPMENT, BUILDINGS 3-9 WILL BE REMOVED TO ACCOMMODATE THE FUTURE APRON EXPANSION AND BUILDINGS 10 AND 11.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. EXISTING HOLDLINE MARKINGS FOR RUNWAY / TAXIWAY INTERSECTIONS ARE 150' FROM RUNWAY CENTERLINE AND PERPENDICULAR TO TAXIWAY CENTERLINE. ULTIMATE HOLDLINE MARKINGS WILL BE 200' FROM RUNWAY CENTERLINE.
2. COORDINATES SHOWN ARE IN NAD83/NAVD88.
3. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL).
4. SEE AIRPORT PROPERTY MAP (DRAWING 13) FOR PROPERTY LINE METES AND BOUNDS AS WELL AS FUTURE EASEMENT AND PROPERTY ACQUISITIONS.
5. SEE RUNWAY DEPARTURE SURFACE DRAWING (SHEET 10) FOR TYPE 7 DEPARTURE SURFACE INFORMATION.
6. THERE ARE OFZ OBJECT PENETRATIONS.
7. THERE ARE THRESHOLD SITING SURFACE OBJECT PENETRATIONS.
8. BUILDING RESTRICTION LINES (BRL) ARE BASED ON THE FOLLOWING: BRL LINES PARALLEL TO RUNWAYS ARE BASED ON A TRANSITIONAL SURFACE ELEVATION OF 25' OR MOST DEMANDING DESIGN STANDARD.
9. BASE MAPPING WAS DEVELOPED BY QUANTUM, SPATIAL FROM FIELD SURVEYS DELIVERED IN NOVEMBER, 2020.
10. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS. ACTUAL ELEVATIONS ARE SHOWN ON THE PLAN:

1. SEVENTEEN FEET FOR AN INTERSTATE HIGHWAY THAT IS PART OF THE NATIONAL SYSTEM OF MILITARY AND INTERSTATE HIGHWAYS WHERE OVERCROSSINGS ARE DESIGNED FOR A MINIMUM OF 17 FEET VERTICAL DISTANCE.

A. FIFTEEN FEET FOR ANY OTHER PUBLIC ROADWAY.
B. TEN FEET OR THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE THE ROAD, WHICHEVER IS GREATER, FOR A PRIVATE ROAD.
C. TWENTY-THREE FEET FOR A RAILROAD, AND
D. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

Project Name:

AIRPORT LAYOUT PLAN UPDATE

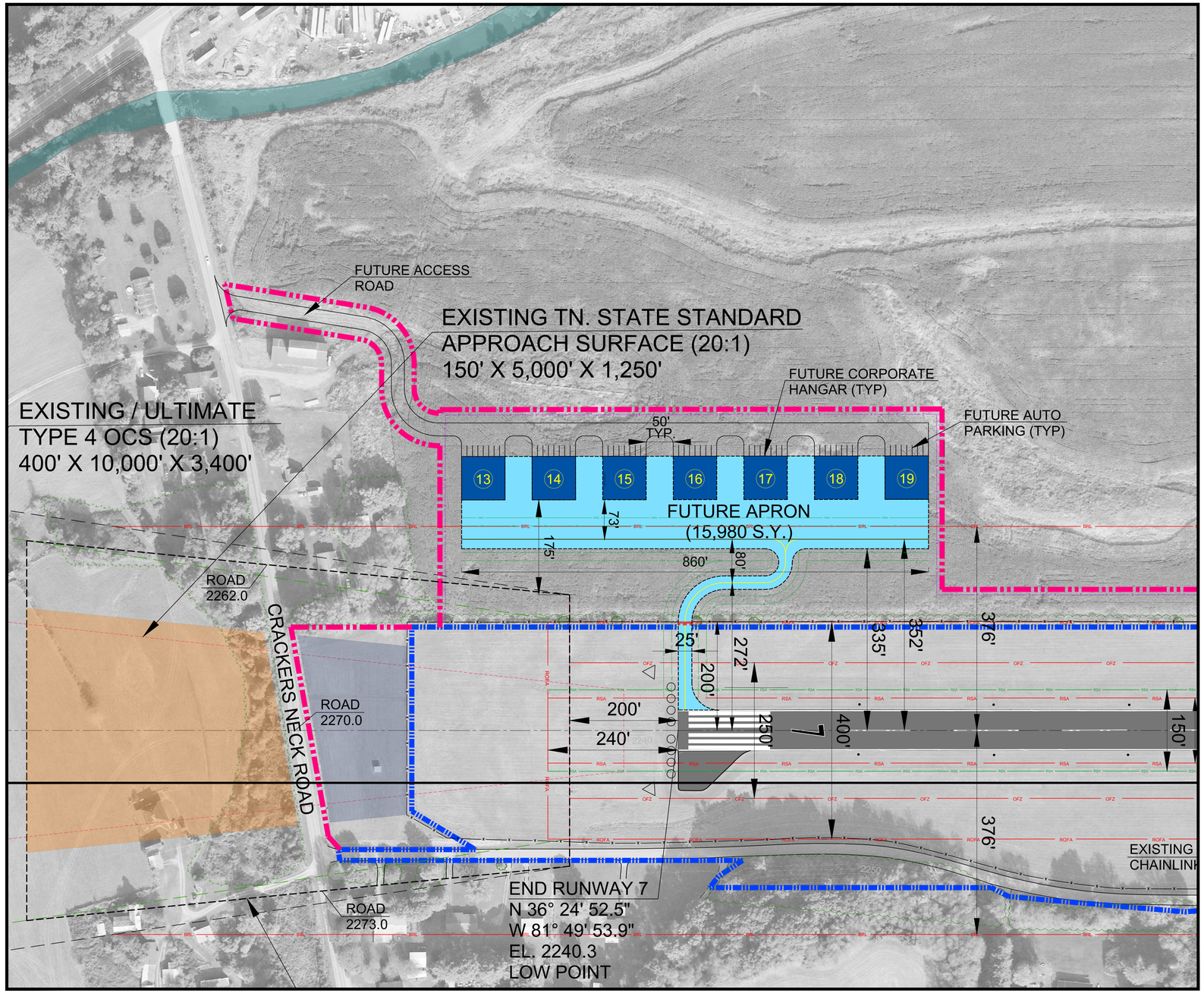
Drawing Name:

TERMINAL AREA PLAN - SOUTHEAST

TAD Project Number: 46-555-0127-21

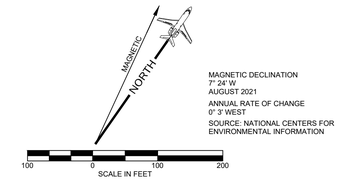
Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) 1"=100'	Sheet Number:
	Drawing Number: 4

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\04-05-6A4-Terminal Area Plan.dwg Modified: Sep 20, 2022 - 4:55am Plotted: Dec 21, 2022 - 8:44am Robert.Farrar



TERMINAL AREA PLAN - NORTHWEST

SCALE: 1" = 100'



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
PROPERTY LINE		
AIRPORT BUILDINGS		
AIRPORT PAVEMENT		
AIRPORT PAVEMENT REMOVAL		
PAVED ROADWAY		
GRAVEL OR DIRT ROADWAY		
EXISTING OFF AIRPORT BUILDINGS		SAME
RUNWAY MARKINGS		
RUNWAY PROTECTION ZONE (RPZ)		
ROTATING BEACON		SAME
AIRPORT REFERENCE POINT (ARP)		
SURVEY MONUMENTS (PACS/SACS)		SAME
RUNWAY CENTERLINE		SAME
TN. STATE APPROACH STANDARD		SAME
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (ROFZ)	OFZ	SAME
BUILDING RESTRICTION LINE (18')	BRL	SAME
TSA	TSA	TSA
FENCE	x x x	x x x
THRESHOLD LIGHTS	N/A	○○○○
REILS	N/A	▽
PAPI OR VASI	N/A	□□
NAVAID CRITICAL AREA	N/A	N/A
TREES / BRUSH		N/A
GROUND CONTOURS	480	N/A
EXISTING DITCH LINE		N/A
HOLDING POSITION LINE		

ULTIMATE BUILDING LEGEND

NO.	DESCRIPTION	TOP ELEV.	OBST. LIGHTING
1	80' X 100' HANGAR	2,267.73	NONE
2	TERMINAL BUILDING	2,265.80'	NONE
3	44' X 44' HANGAR	2,267.63'	NONE
4	42' X 45' HANGAR	2,265.11'	NONE
5	30' X 45' HANGAR	2,252.34	NONE
6	40' X 50' HANGAR	2,258.54'	NONE
7	44' X 50' HANGAR	2,264.88'	NONE
8	40' X 100' CORPORATE HANGAR	2,261.32'	NONE
9	42' X 62' HANGAR	2,269.00'	NONE
10	FUTURE 8-UNIT CONDO HANGAR	TBD	NONE
11	FUTURE 15-UNIT T-HANGAR	TBD	NONE
12	FUTURE 5-UNIT CONDO HANGAR	TBD	NONE
13	FUTURE CORPORATE HANGAR	TBD	NONE
14	FUTURE CORPORATE HANGAR	TBD	NONE
15	FUTURE CORPORATE HANGAR	TBD	NONE
16	FUTURE CORPORATE HANGAR	TBD	NONE
17	FUTURE CORPORATE HANGAR	TBD	NONE
18	FUTURE CORPORATE HANGAR	TBD	NONE
19	FUTURE CORPORATE HANGAR	TBD	NONE

NOTE:

DURING FUTURE DEVELOPMENT, BUILDINGS 3-9 WILL BE REMOVED TO ACCOMMODATE THE FUTURE APRON EXPANSION AND BUILDINGS 10 AND 11.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. EXISTING HOLDLINE MARKINGS FOR RUNWAY / TAXIWAY INTERSECTIONS ARE 150' FROM RUNWAY CENTERLINE AND PERPENDICULAR TO TAXIWAY CENTERLINE. ULTIMATE HOLDLINE MARKINGS WILL BE 200' FROM RUNWAY CENTERLINE.
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4. SEE AIRPORT PROPERTY MAP (DRAWING 13) FOR PROPERTY LINE METES AND BOUNDS AS WELL AS FUTURE EASEMENT AND PROPERTY ACQUISITIONS.
5. SEE RUNWAY DEPARTURE SURFACE DRAWING (SHEET 10) FOR TYPE 7 DEPARTURE SURFACE INFORMATION.
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7. THERE ARE THRESHOLD SITING SURFACE OBJECT PENETRATIONS.
8. BUILDING RESTRICTION LINES (BRL) ARE BASED ON THE FOLLOWING: BRL LINES PARALLEL TO RUNWAYS ARE BASED ON A TRANSITIONAL SURFACE ELEVATION OF 25' OR MOST DEMANDING DESIGN STANDARD.
9. BASE MAPPING WAS DEVELOPED BY QUANTUM, SPATIAL FROM FIELD SURVEYS DELIVERED IN NOVEMBER, 2020.
10. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS. ACTUAL ELEVATIONS ARE SHOWN ON THE PLAN:

1. SEVENTEEN FEET FOR AN INTERSTATE HIGHWAY THAT IS PART OF THE NATIONAL SYSTEM OF MILITARY AND INTERSTATE HIGHWAYS WHERE OVERCROSSINGS ARE DESIGNED FOR A MINIMUM OF 17 FEET VERTICAL DISTANCE.

A. FIFTEEN FEET FOR ANY OTHER PUBLIC ROADWAY.

B. TEN FEET OR THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE THE ROAD, WHICHEVER IS GREATER, FOR A PRIVATE ROAD.

C. TWENTY-THREE FEET FOR A RAILROAD, AND

D. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

Project Name:

AIRPORT LAYOUT PLAN UPDATE

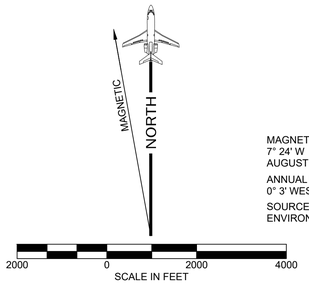
Drawing Name:

TERMINAL AREA PLAN - NORTHWEST

TAD Project Number: 46-555-0127-21

Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) 1"=100'	Sheet Number:
	Drawing Number: 5

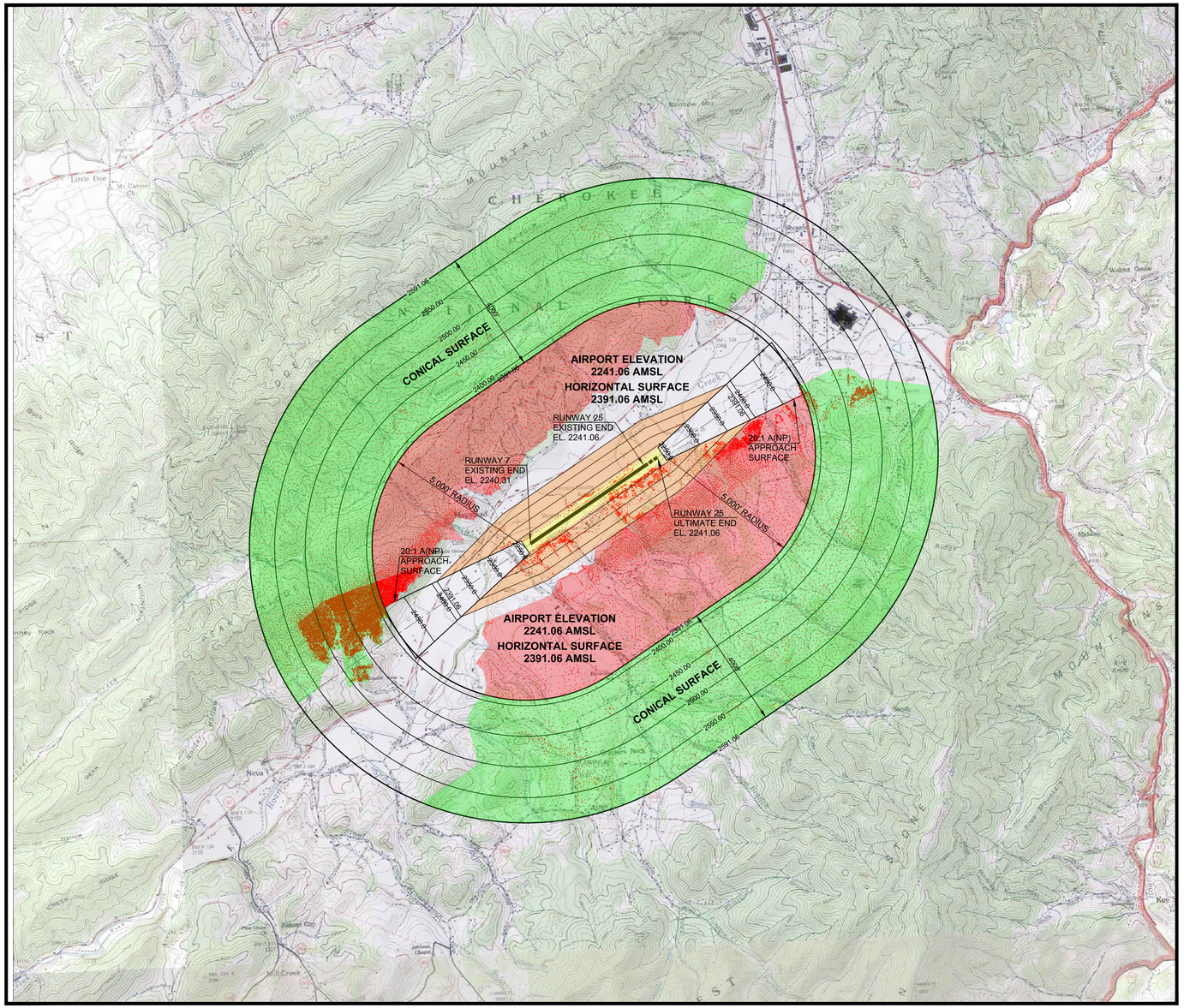
O:\644 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\04-05-644-Terminal Area Plan.dwg Modified: Dec 21, 2022 - 12:46pm Plotted: Dec 22, 2022 - 5:09am Robert.Farrar



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION



AIRPORT AIRSPACE DRAWING

SCALE: 1" - 2000'

PART 77 OBSTRUCTION INFORMATION TABLE

SURFACE	OBSTRUCTION INFORMATION	PENETRATIONS
PRIMARY	OBSTRUCTIONS WITHIN THE PRIMARY SURFACE CONSISTS OF TREES, BUSHES, FENCING, ROADS, AND THE WINDSOCK.	VARY FROM -4' TO 93'.
TRANSITIONAL	OBSTRUCTIONS WITHIN THE TRANSITIONAL SURFACE CONSISTS OF UTILITY POLES, TREES, BUILDINGS, POWER TRANSMISSION LINE AND ASSOCIATED PYLONS.	VARY FROM -9' TO 126'.
HORIZONTAL	OBSTRUCTIONS WITHIN THE HORIZONTAL SURFACE CONSISTS OF UTILITY POLES, TREES, BUILDINGS, POWER TRANSMISSION LINE AND ASSOCIATED PYLONS, AND GROUND.	VARY FROM -9' TO 724'.
CONICAL	OBSTRUCTIONS WITHIN THE CONICAL SURFACE CONSISTS OF UTILITY LINES AND POLES, TREES, ROADS, GROUND, AND BUILDINGS.	VARY FROM -9' TO 907'.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker
INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL).
3. CURRENT 7.5 MINUTE QUADRANGLE MAPS WERE OBTAINED FROM GLOBAL MAPPER SOFTWARE IN AUGUST, 2021.
4. BASED ON OBSTRUCTION ANALYSIS PREPARED BY QUANTUM SPATIAL DATED FEBRUARY, 2021 AT AN ACCURACY OF 1-FOOT VERTICALLY, 3-FEET HORIZONTALLY.
5. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS:
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   D. TWENTY-THREE FEET FOR A RAILROAD, AND
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REVISIONS

No.	Description	Date	By

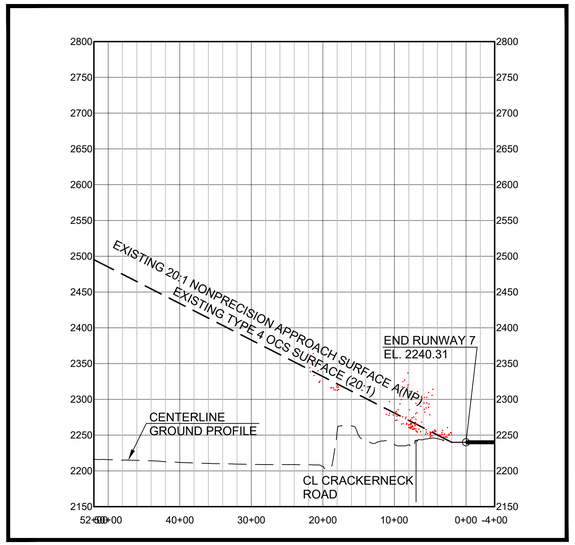
Project Name:
AIRPORT LAYOUT PLAN UPDATE

Drawing Name:
AIRPORT AIRSPACE DRAWING (1 OF 2)

TAD Project Number: 46-555-0127-21

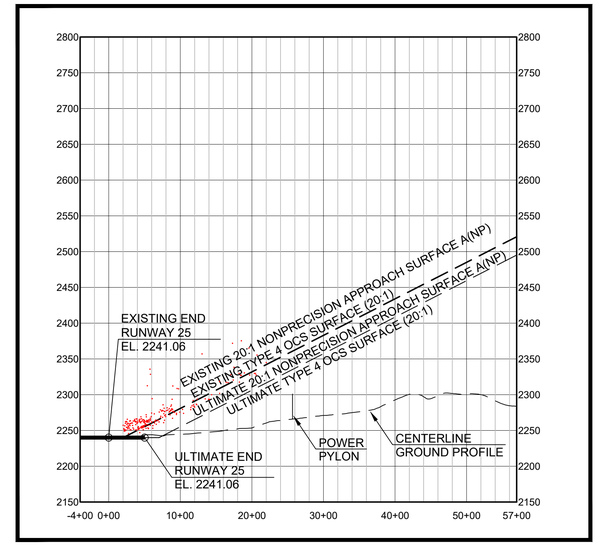
Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) 1"=2000'	Sheet Number:
	Drawing Number: 6

O:\644 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\06-644-Airport Airspace Drawing.dwg Modified: Sep 13, 2022 - 6:19am Plotted: Dec 21, 2022 - 8:51am Robert.Farrar



PROFILE - RUNWAY 7 APPROACH

SCALES: 1" = 1000' HOR.
1" - 100' VERT.

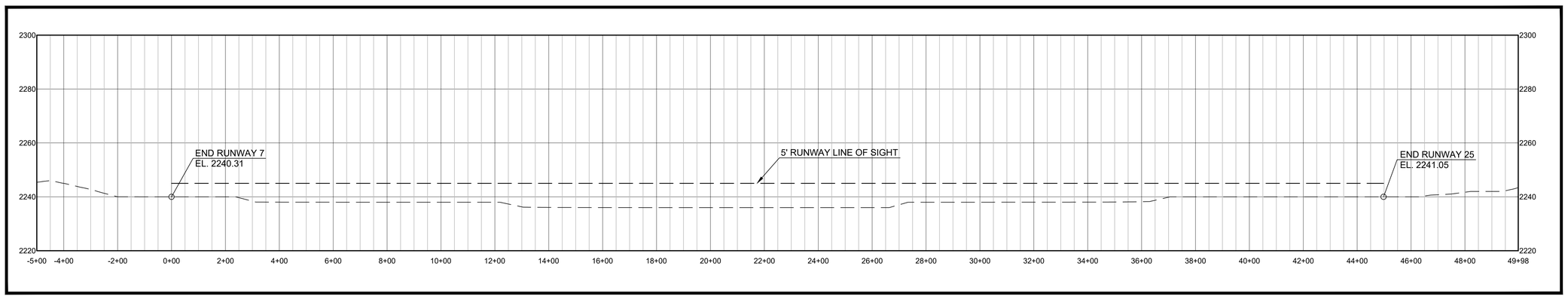


PROFILE - RUNWAY 25 APPROACH

SCALES: 1" = 1000' HOR.
1" - 100' VERT.

NOTE:

REFER TO INNER APPROACH PLANS AND PROFILES FOR OBSTRUCTION INFORMATION. ALL OBSTRUCTIONS TO APPROACHES FALL WITHIN THE INNER APPROACH AREAS. SEE SHEETS 8 AND 9.



PROFILE - RUNWAY 7 - 25

SCALES: 1" = 200' HOR.
1" = 20' VERT.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer: Robert D. Farrar	Checked by: Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL).
3. CURRENT 7.5 MINUTE QUADRANGLE MAPS WERE OBTAINED FROM GLOBAL MAPPER SOFTWARE IN AUGUST, 2021.
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   E. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

Project Name:

AIRPORT LAYOUT PLAN UPDATE

Drawing Name:

AIRPORT AIRSPACE DRAWING (2 OF 2)

TAD Project Number: 46-555-0127-21

Date: DECEMBER 2022	Division: PLANNING
Scale: (24X36) AS SHOWN	Sheet Number:
	Drawing Number: 7

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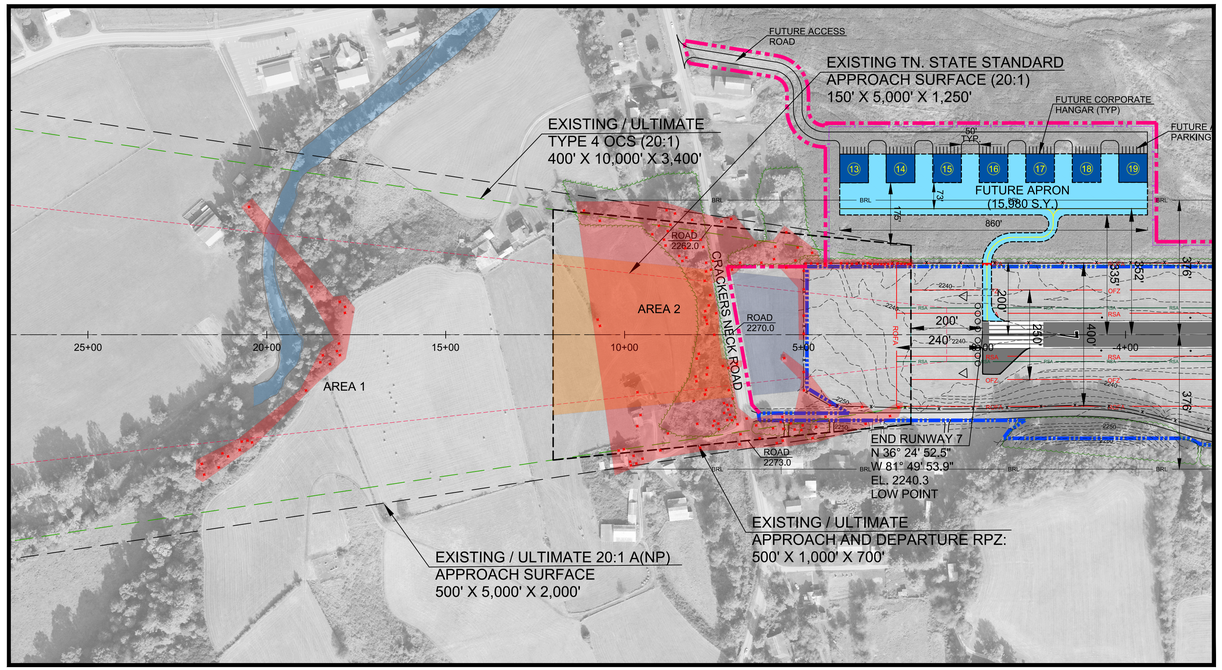
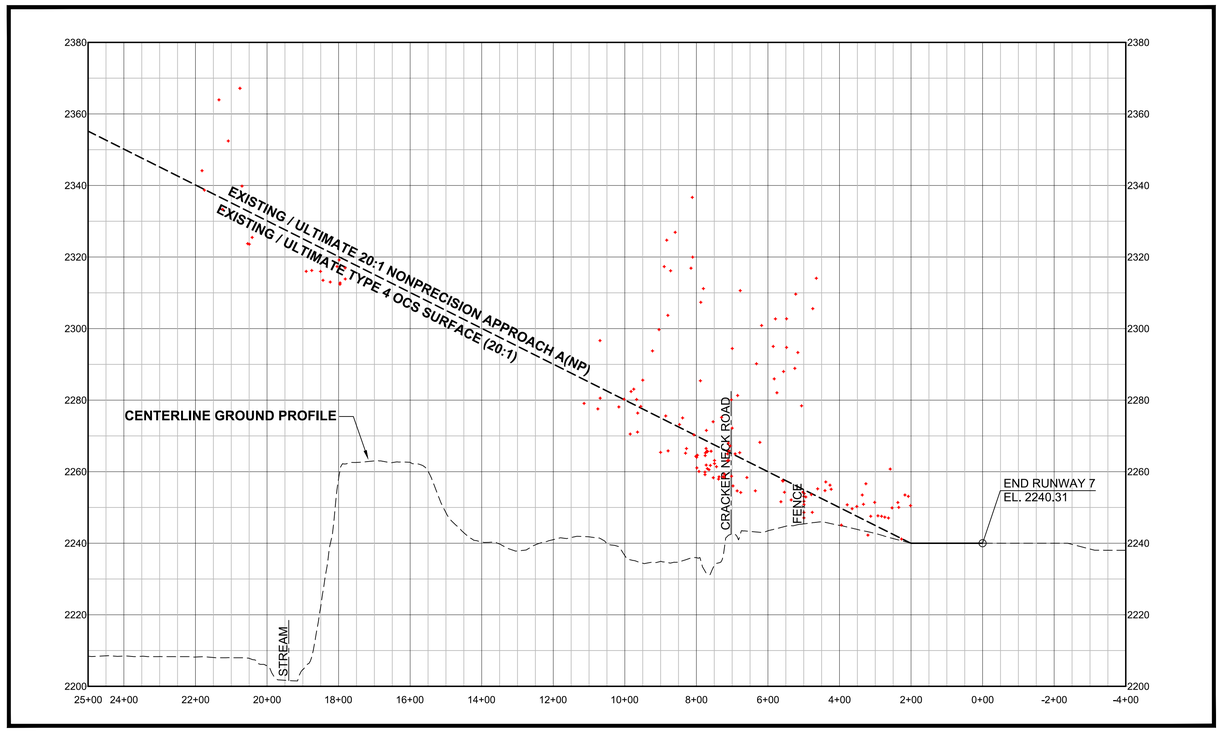


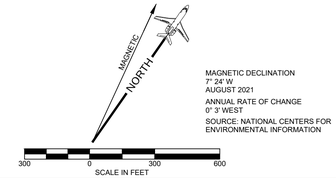
PLAN VIEW - RUNWAY 7 INNER APPROACH

SCALE: 1" = 200'



PROFILE VIEW - RUNWAY 7 INNER APPROACH

SCALES: 1" = 200' HOR.
1" - 20' VERT.



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
PROPERTY LINE		
AIRPORT BUILDINGS		
AIRPORT PAVEMENT		
AIRPORT PAVEMENT REMOVAL		
PAVED ROADWAY		
GRAVEL OR DIRT ROADWAY		
EXISTING OFF AIRPORT BUILDINGS		SAME
RUNWAY MARKINGS		
RUNWAY PROTECTION ZONE (RPZ)		
ROTATING BEACON		SAME
AIRPORT REFERENCE POINT (ARP)		
SURVEY MONUMENTS (PACS/SACS)		SAME
RUNWAY CENTERLINE		SAME
TN. STATE APPROACH STANDARD		SAME
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (ROFZ)	OFZ	SAME
BUILDING RESTRICTION LINE (25')	BRL	SAME
TSA	TSA	TSA
FENCE	x x x	x x x
THRESHOLD LIGHTS	N/A	
REILS	N/A	
PAPI OR VASI	N/A	
NAVAID CRITICAL AREA	N/A	N/A
TREES / BRUSH		N/A
GROUND CONTOURS	480	N/A
EXISTING DITCH LINE		N/A
HOLDING POSITION LINE		

RUNWAY 7 INNER APPROACH OBSTRUCTION INFORMATION TABLE

SURFACE	OBSTRUCTION INFORMATION	PENETRATIONS	ACTION
AREA 1	AREA 1 CONSISTS OF A GROUP OF TREES.	VARY FROM -9' TO 26'.	CONDUCT 20:1 SURVEY AND OBSTRUCTION CLEARING.
AREA 2	AREA 2 CONSISTS OF TREES, BUILDINGS, FENCES, UTILITY POLES, AND ROADS.	VARY FROM -4' TO 62'.	CONDUCT 20:1 SURVEY AND OBSTRUCTION CLEARING.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL). GROUND CONTOURS FOR THE FULL MAPPING AREA ARE NOT AVAILABLE.
3. CURRENT AERIAL PHOTOGRAPHY OBTAINED FROM QUANTUM SPATIAL IN NOVEMBER, 2020.
4. BASED ON OBSTRUCTION ANALYSIS PREPARED BY QUANTUM SPATIAL DATED FEBRUARY, 2021 AT AN ACCURACY OF 1-FOOT VERTICALLY, 3-FEET HORIZONTALLY.
5. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS:
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REVISIONS

No.	Description	Date	By

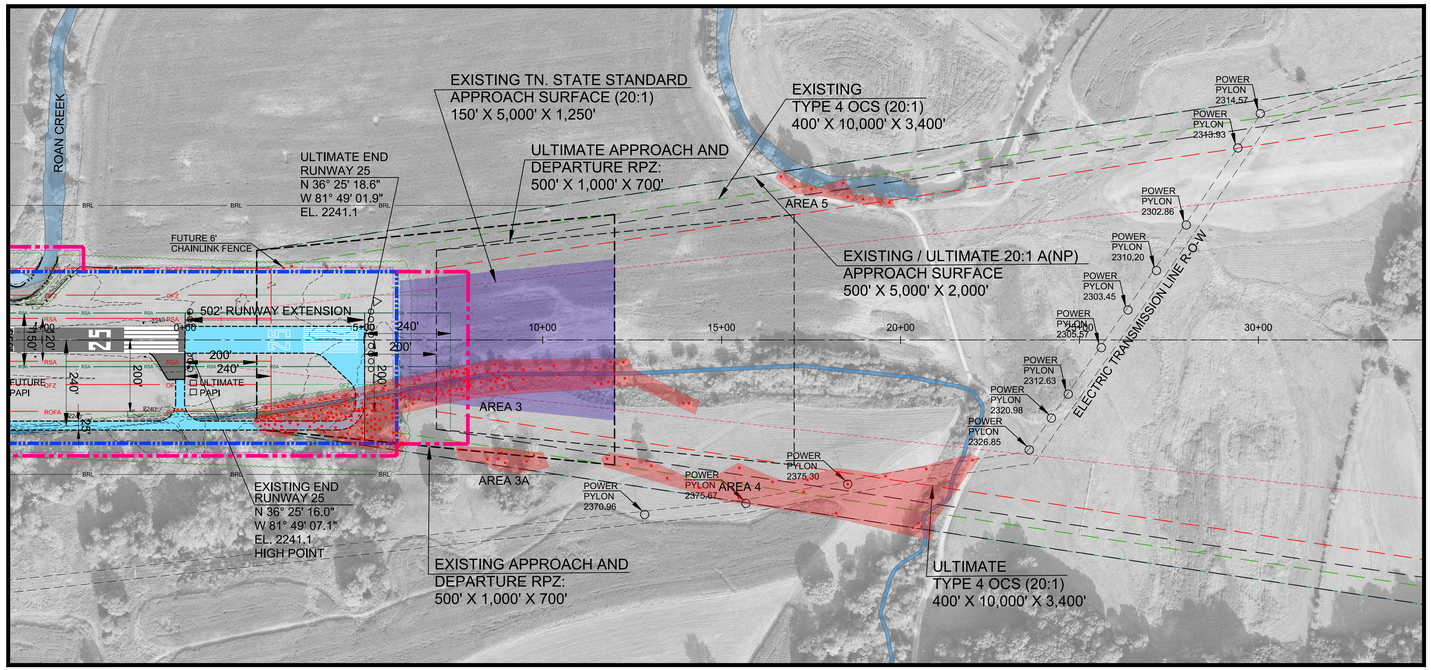
Project Name:
AIRPORT LAYOUT PLAN UPDATE

Drawing Name:
INNER PORTION OF THE APPROACH DRAWING RUNWAY 7

TAD Project Number: 46-555-0127-21

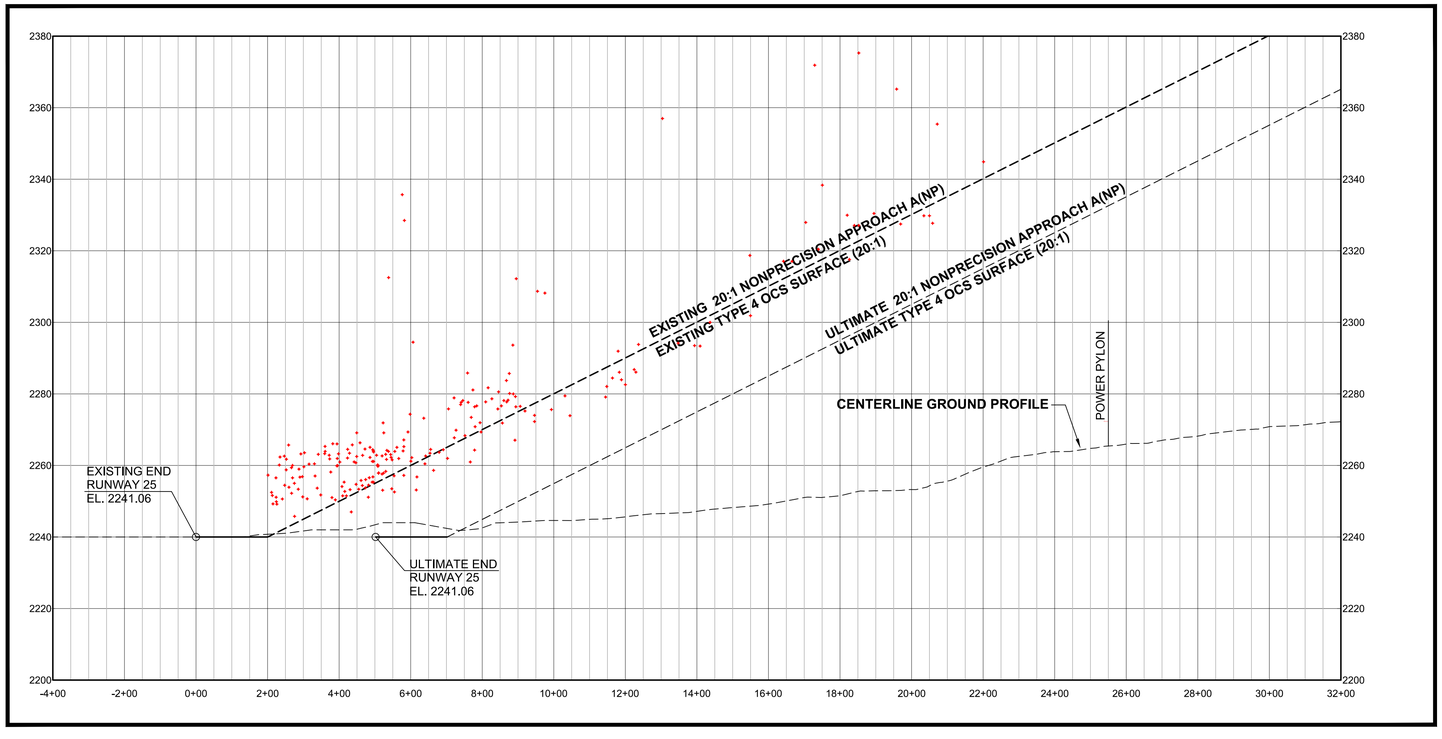
Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) AS SHOWN	Sheet Number:
	Drawing Number: 8

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\08-09-6A4-Inner Approach Runway 7-25.dwg Modified: Sep 20, 2022 - 8:14am Plotted: Dec 21, 2022 - 9:05am Robert.Farrar



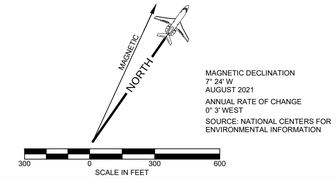
PLAN VIEW - RUNWAY 25 INNER APPROACH

SCALE: 1" = 200'



PROFILE VIEW - RUNWAY 25 INNER APPROACH

SCALES: 1" = 200' HOR.
1" - 20' VERT.



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7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
PROPERTY LINE		
AIRPORT BUILDINGS		
AIRPORT PAVEMENT		
AIRPORT PAVEMENT REMOVAL		
PAVED ROADWAY		
GRAVEL OR DIRT ROADWAY		
EXISTING OFF AIRPORT BUILDINGS		SAME
RUNWAY MARKINGS		
RUNWAY PROTECTION ZONE (RPZ)		
ROTATING BEACON		SAME
AIRPORT REFERENCE POINT (ARP)		
SURVEY MONUMENTS (PACS/SACS)		SAME
RUNWAY CENTERLINE		SAME
TN. STATE APPROACH STANDARD		SAME
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (ROFZ)	OFZ	SAME
BUILDING RESTRICTION LINE (25')	BRL	SAME
TSA	TSA	TSA
FENCE	x x x	x x x
THRESHOLD LIGHTS	N/A	ooooo
REILS	N/A	▽
PAPI OR VASI	N/A	□□
NAVAID CRITICAL AREA	N/A	N/A
TREES / BRUSH		N/A
GROUND CONTOURS	480	N/A
EXISTING DITCH LINE		N/A
HOLDING POSITION LINE		

RUNWAY 7 INNER APPROACH OBSTRUCTION INFORMATION TABLE

SURFACE	OBSTRUCTION INFORMATION	PENETRATIONS	ACTION
AREAS 3 & 3A	AREAS 3 AND 4A CONSISTS OF GROUPS OF TREES.	VARY FROM -9' TO 69'.	CONDUCT 20:1 SURVEY AND OBSTRUCTION CLEARING.
AREA 4	AREA 4 CONSISTS OF TREES, GROUND, AND TRANSMISSION LINES AND PYLONS.	VARY FROM -4' TO 54'.	CONDUCT 20:1 SURVEY AND OBSTRUCTION CLEARING.
AREA 5	AREA 5 CONSISTS OF GROUPS OF TREES.	VARY FROM 0' TO 56'.	CONDUCT 20:1 SURVEY AND OBSTRUCTION CLEARING.

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL). GROUND CONTOURS FOR THE FULL MAPPING AREA ARE NOT AVAILABLE.
3. CURRENT AERIAL PHOTOGRAPHY OBTAINED FROM QUANTUM SPATIAL IN NOVEMBER, 2020.
4. BASED ON OBSTRUCTION ANALYSIS PREPARED BY QUANTUM SPATIAL DATED FEBRUARY, 2021 AT AN ACCURACY OF 1-FOOT VERTICALLY, 3-FEET HORIZONTALLY.
5. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS:
   - A. SEVENTEEN FEET FOR AN INTERSTATE HIGHWAY THAT IS PART OF THE NATIONAL SYSTEM OF MILITARY AND INTERSTATE HIGHWAYS WHERE OVERCROSSINGS ARE DESIGNED FOR A MINIMUM OF 17 FEET VERTICAL DISTANCE.
   - B. FIFTEEN FEET FOR ANY OTHER PUBLIC ROADWAY.
   - C. TEN FEET OR THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE THE ROAD, WHICHEVER IS GREATER, FOR A PRIVATE ROAD.
   - D. TWENTY-THREE FEET FOR A RAILROAD, AND
   - E. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

Project Name:
AIRPORT LAYOUT PLAN UPDATE

Drawing Name:
INNER PORTION OF THE APPROACH DRAWING RUNWAY 25

TAD Project Number: 46-555-0127-21

Date:	Division:
DECEMBER 2022	PLANNING
Scale: (24X36) AS SHOWN	Sheet Number:
	Drawing Number: 9

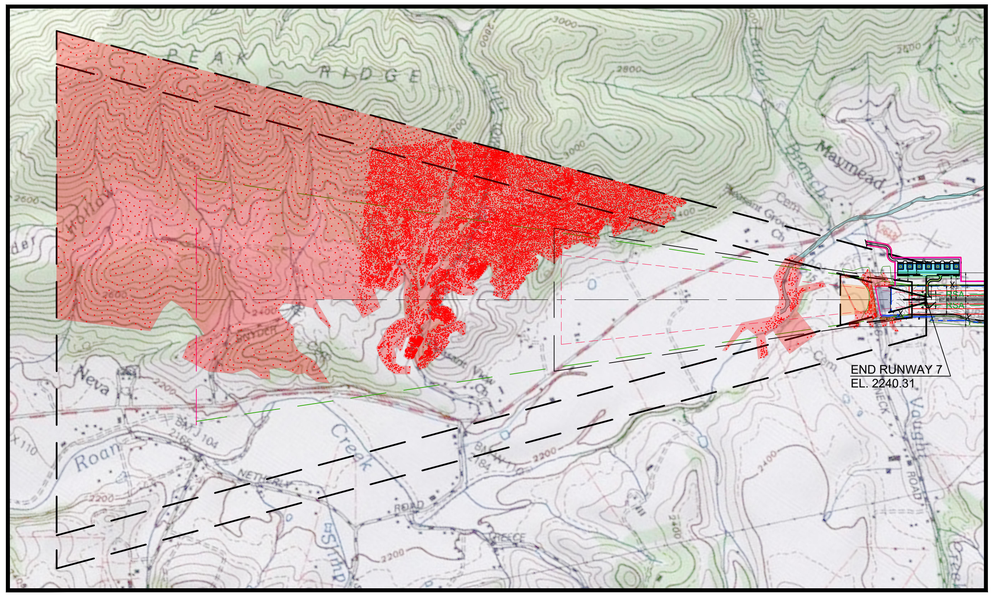
O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\08-09-6A4-Inner Approach Runway 7-25.dwg Modified: Sep 20, 2022 - 8:14am Plotted: Dec 21, 2022 - 9:05am Robert.Farrar

RUNWAY 25 DEPARTURE SURFACE OBSTRUCTION INFORMATION TABLE

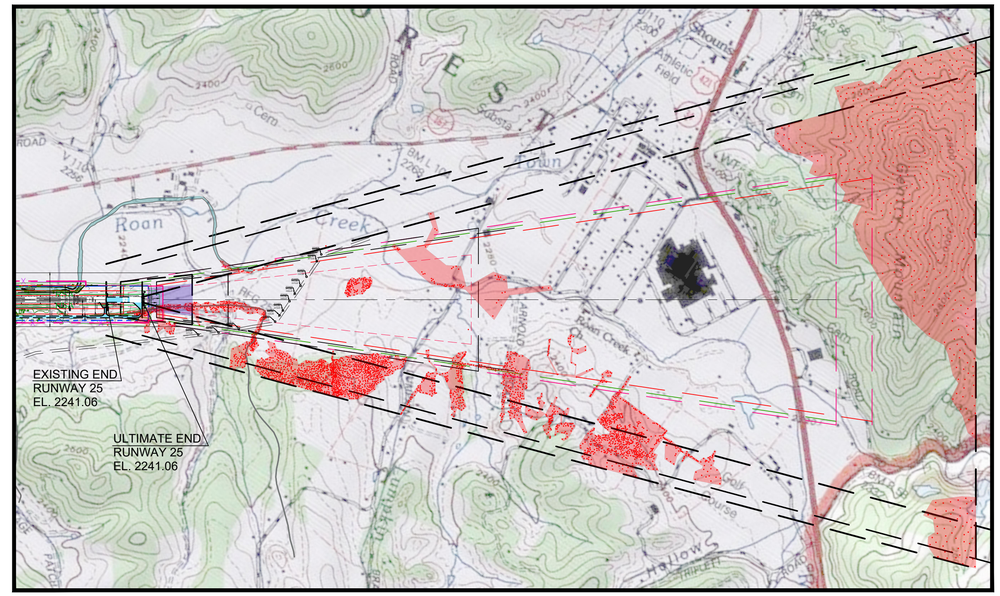
SURFACE	OBSTRUCTION INFORMATION	PENETRATIONS
25 DEPARTURE	DEPARTURE SURFACE OBSTRUCTIONS INCLUDE TREES, POWER PYLONS, BUSHES, POWER LINES, GROUND, ROADS, FENCES, SILOS, UTILITY POLES AND LINES, AND BUILDINGS. SEE OBSTRUCTION SPREADSHEET FOR FUTURE INFORMATION.	VARY FROM -9' TO 759'.

RUNWAY 7 DEPARTURE SURFACE OBSTRUCTION INFORMATION TABLE

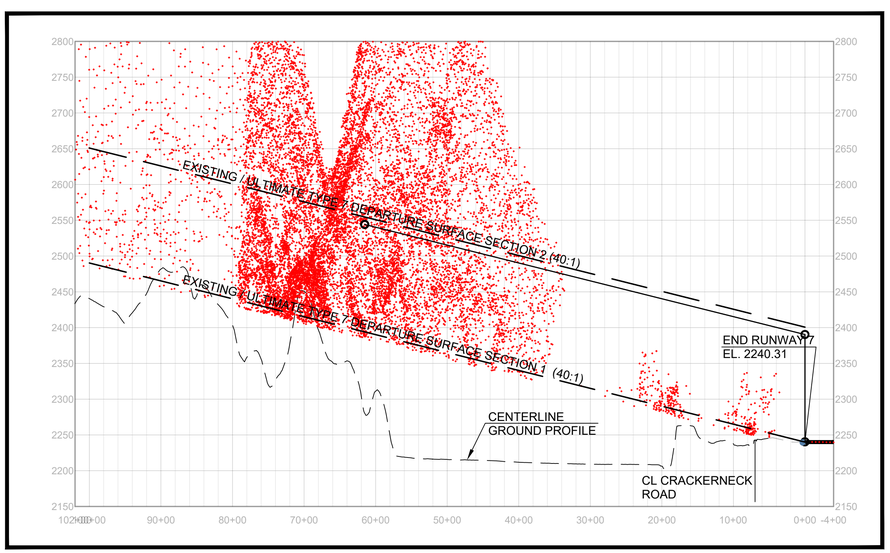
SURFACE	OBSTRUCTION INFORMATION	PENETRATIONS
7 DEPARTURE	DEPARTURE SURFACE OBSTRUCTIONS INCLUDE TREES, POWER PYLONS, BUSHES, POWER LINES, GROUND, ROADS, FENCES, SILOS, UTILITY POLES AND LINES, AND BUILDINGS. SEE OBSTRUCTION SPREADSHEET FOR FUTURE INFORMATION.	VARY FROM -9' TO 158'.



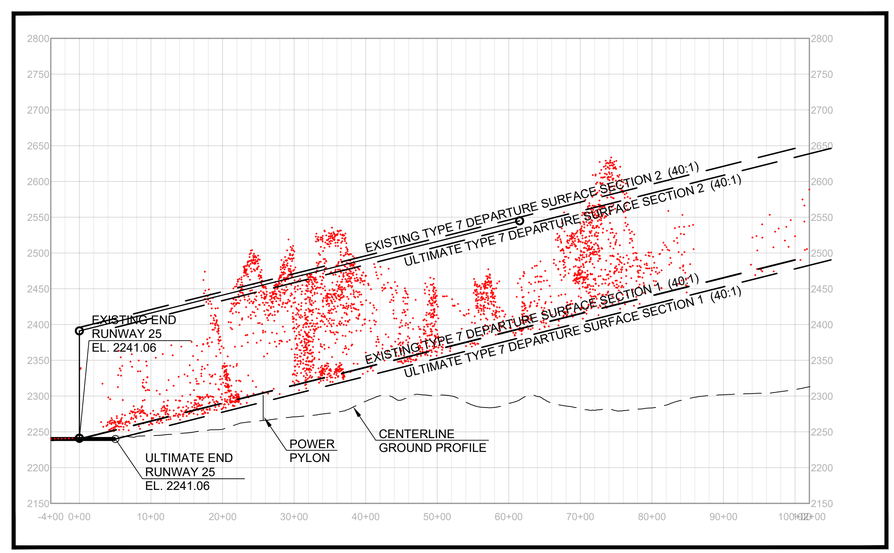
PLAN VIEW - RUNWAY 25 DEPARTURE SURFACE
SCALE: 1" = 1000'



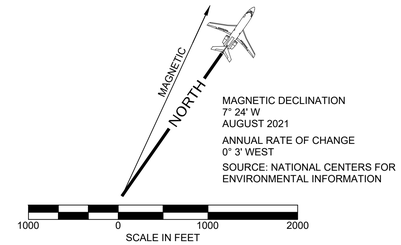
PLAN VIEW - RUNWAY 7 DEPARTURE SURFACE
SCALE: 1" = 1000'



PROFILE - RUNWAY 25 DEPARTURE SURFACE
SCALES: 1" = 1000' HOR.
1" - 100' VERT.



PROFILE - RUNWAY 7 DEPARTURE SURFACE
SCALES: 1" = 1000' HOR.
1" - 100' VERT.



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer: Robert D. Farrar	Checked by: Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. COORDINATES SHOWN ARE IN NAD83.
2. ELEVATIONS SHOWN ARE IN NAVD88 AND ARE ABOVE MEAN SEA LEVEL (AMSL).
3. CURRENT 7.5 MINUTE QUADRANGLE MAPS WERE OBTAINED FROM GLOBAL MAPPER SOFTWARE IN AUGUST, 2021.
4. BASED ON OBSTRUCTION ANALYSIS PREPARED BY QUANTUM SPATIAL DATED FEBRUARY, 2021 AT AN ACCURACY OF 1-FOOT VERTICALLY, 3-FEET HORIZONTALLY.
5. FAA CLEARANCE REQUIREMENTS NOTE: SECTION 77.23 OF FEDERAL AVIATION REGULATIONS (FAR) PART 77 SPECIFIES CLEARANCE REQUIREMENTS FOR ROADS, RAILROADS, AND WATERWAYS AS FOLLOWS:
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   B. FIFTEEN FEET FOR ANY OTHER PUBLIC ROADWAY.
   C. TEN FEET OR THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE THE ROAD, WHICHEVER IS GREATER, FOR A PRIVATE ROAD.
   D. TWENTY-THREE FEET FOR A RAILROAD, AND
   E. FOR A WATERWAY OR ANY OTHER TRAVERSE WAY NOT PREVIOUSLY MENTIONED, AN AMOUNT EQUAL TO THE HEIGHT OF THE HIGHEST MOBILE OBJECT THAT WOULD NORMALLY TRAVERSE IT.

REVISIONS

No.	Description	Date	By

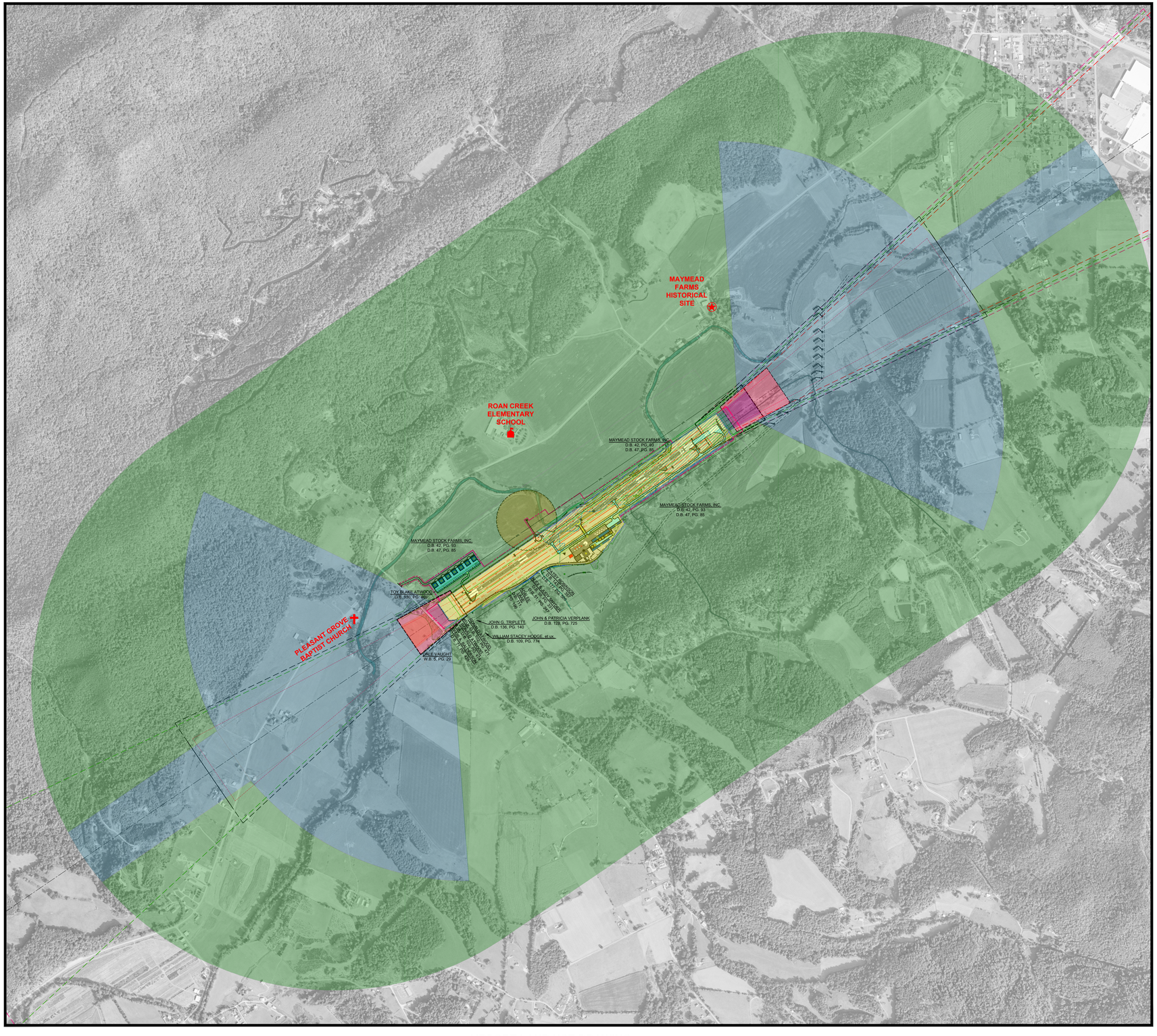
Project Name:
AIRPORT LAYOUT PLAN UPDATE

Drawing Name:
RUNWAY DEPARTURE SURFACE DRAWING RUNWAY 7-25

TAD Project Number: 46-555-0127-21

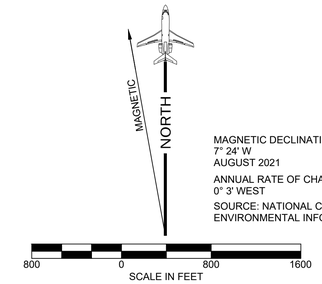
Date: DECEMBER 2022	Division: PLANNING
Scale: (24X36) AS SHOWN	Sheet Number:
	Drawing Number: 10

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\10-6A4-Departure Surface Drawing Runway 7-25.dwg Modified: Sep 13, 2022 - 9:02am Plotted: Dec 21, 2022 - 9:13am Robert.Farrar



AIRPORT LAND USE DRAWING

SCALE: 1" - 800'



MAGNETIC DECLINATION
7° 24' W
AUGUST 2021

ANNUAL RATE OF CHANGE
0° 3' WEST

SOURCE: NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

LAND USE LEGEND	
	AERONAUTICAL USE
	LOW DENSITY RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL USES RECOMMENDED.
	LOW DENSITY RESIDENTIAL AND MOST LAND USES RECOMMENDED (NO SOLID WASTE LANDFILLS OR WASTEWATER TREATMENT FACILITIES)
	RUNWAY PROTECTION ZONE.
	ZONE A FLOODPLAIN
	SCHOOL
	CHURCH
	HISTORICAL SITE

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	Jim Duguay
Technician: Folashade Shelton	Project Number: 180617

NOTES:

1. ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL).
2. BRL INDICATES INNER LIMITS FOR A 25' HIGH BUILDING (2,258.4' MSL).
3. DRAWING IS BASED ON NAD83 HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM.
4. REFER TO AIRPORT LAYOUT DRAWING, APPROACH DRAWING, AND INNER PORTION OF THE APPROACH DRAWING FOR CLOSE-IN OBSTRUCTIONS.
5. REFER TO AIRSPACE DRAWING FOR OBSTRUCTIONS WITHIN HORIZONTAL & CONICAL SURFACES.
6. REFER TO INNER PORTION OF THE APPROACH DRAWING FOR CLOSE IN OBSTRUCTIONS.
7. ULTIMATE LAND ACQUISITION SHOULD BE COORDINATED WITH TDOT, AERONAUTICS DIVISION. BOUNDARIES OF LOCAL GOVERNMENT ARE NOT SHOWN ON THIS DRAWING.
8. ALL GVGSI SITING MUST BE IN ACCORDANCE WITH FAA GUIDANCE.
9. THERE IS NO EXISTING ZONING.
10. THERE ARE NO CROP RESTRICTIONS IN DRAWING.

REVISIONS

No.	Description	Date	By

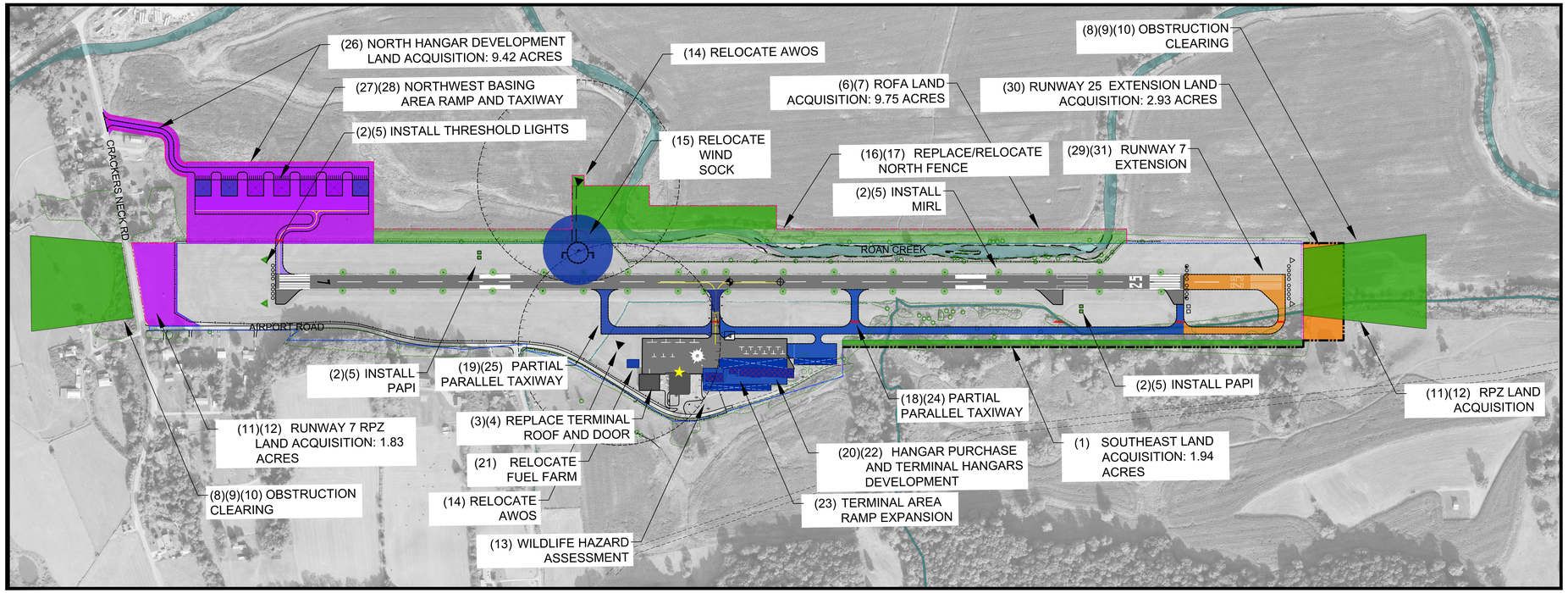
Project Name:
AIRPORT LAYOUT PLAN UPDATE

Drawing Name:
AIRPORT LAND USE DRAWING

TAD Project Number:
46-555-0127-21

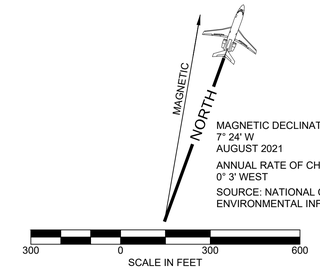
Date: DECEMBER 2022	Division: PLANNING
Scale: (24X36) 1"=800'	Sheet Number:
	Drawing Number: 11

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\11-6A4-Land Use Drawing.dwg Modified: Sep 20, 2022 - 9:42am Plotted: Dec 21, 2022 - 9:24am Robert Farrar



CAPITAL IMPROVEMENT PLAN

SCALE: 1" - 300'



Near Term Airport Capital Improvement Plan (ACIP) 2021-2025

Priority	Project	Total Cost	Triggering Event
	2021		
	2022		
Priority	**Project**	**Total Cost**	
1	Southeast Land Acquisition - Purchase	$ 33,800	Immediately to meet design standards.
2	Install PAPI/MIRL, Threshold Bars, Preliminary and Final Design	$ 75,000	Equipment is at the end of useful life.
	2023		
Priority	**Project**	**Total Cost**	
3	Terminal Roof and Hangar Door Rehabilitation (Design)	$ 40,000	Component is at the end of useful life.
4	Terminal Roof and Hangar Door Rehabilitation (Construction)	$ 150,000	Component is at the end of useful life.
5	Install PAPI/MIRL, Threshold Bars Construction	$ 400,000	Equipment is at the end of useful life.
	2024		
Priority	**Project**	**Total Cost**	
6	Land Acquisition Fencing/ROFA Standards (Design/Bid)	$ 300,000	Immediately to meet design standards.
7	Land Acquisition Fencing/ROFA Standards (Construction)	$ 750,000	Immediately to meet design standards.
8	20:1 Obstruction Survey	$ 50,000	Obstruction removal
9	20:1 Obstruction Clearing (Design)	$ 50,000	Obstruction removal
10	20:1 Obstruction Clearing	$ 150,000	Obstruction removal
11	RPZ Ownership Land Acquisition Study	$ 50,000	Meet RPZ requirements.
12	RPZ Ownership Land Acquisition	$ 750,000	Meet RPZ requirements.
13	Wildlife Hazard Assessment	$ 25,000	Demonstrate need for necessary airport fencing.
	2025		
Priority	**Project**	**Total Cost**	
14	Relocate AWOS to North Side	$ 200,000	
15	Relocate Wind Sock out of OFA	$ 55,000	Meet OFA requirements.
16	Security Fencing Replacement (Design/Bid)	$ 175,000	Enclose airport from wildlife.
17	Perimeter Fencing (Design)	$ 166,000	Enclose airport from wildlife.
	5-Year (2021-2025) Total CIP	**$ 3,419,800**	

Intermediate and Long Term Airport Capital Improvement Plan (ACIP) 2025-2041

Priority	Project	Total Cost	
	Intermediate 2026-2031		
18	Partial Parallel Taxiway Final Design - Phase I RW 25 (Standards)	$ 100,000	To meet airport design standards.
19	Partial Parallel Taxiway Final Design - Phase II RW 7 (Standards)	$ 70,000	Complete Phase 2 Taxiway Improvements.
20	Hangar Purchase (Existing Building)	$ 150,000	Demonstrate hangar demand.
21	Fuel Farm	$ 350,000	To allow adequate space for future partial parallel taxiway.
22	Terminal Hangars	$ 750,000	Demonstrate hangar demand.
23	Terminal Area Ramp Expansion (3642.7 SY)	$ 250,000	Demonstrate hangar demand.
24	Partial Parallel Taxiway Final Construction - Phase I RW 25 (Standards)	$ 1,100,000	To meet airport design standards.
25	Partial Parallel Taxiway Final Construction - Phase II RW 7(Standards)	$ 400,000	Complete Phase 2 Taxiway Improvements.
	Intermediate (2025-2041) Total CIP	**$ 3,170,000**	
	Long Term 2032-2041		
Priority	**Project**	**Total Cost**	
26	Land Acquisition Future Northwest Basing Area	$ 315,000	Demonstrate hangar demand.
27	Northwest Basing Area Access Road (Construction)	$ 50,000	Demonstrate hangar demand.
28	Northwest Basing Area Ramp and Taxiway Access	$ 150,000	Access to proposed Northwest Basing Area.
	Long Term (2032-2041) Total CIP	**$ 515,000**	
	Ultimate (Beyond 20yrs)		
29	Runway Justification Study	$ 75,000	Justify runway extension
30	Land Acquisition Runway 25 Extension	$ 115,000	To ensure property for propose Runway 25 extension
31	Runway 25 Extension (502 FT)	$ 850,192	To meet TASP runway length recommendation.
	Ultimate Term (> 20 Years) Total CIP	**$ 1,040,192**	
	Total ACIP Costs All Phases	**$ 8,144,992**	

1	Total Annual Operations	2080
2	Annual itinerant operations by all aircraft	1080
3	Annual itinerant operations by current critical aircraft	31
4	Annual itinerant operations by future critical aircraft	38
5	Number of based aircraft	23
6	Annual instrument approaches	198
7	Critical Aircraft	Cessna 414
8	Runway Design Code (RDC)	B-I
9	Approach Reference Code (APRC)Departure Reference	N/AN/A

1	Total Annual Operations	2080
2	Annual itinerant operations by all aircraft	1080
3	Annual itinerant operations by current critical aircraft	31
4	Annual itinerant operations by future critical aircraft	38
5	Number of based aircraft	23
6	Annual instrument approaches	198
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8	Runway Design Code (RDC)	B-I
9	Approach Reference Code (APRC)Departure Reference	N/AN/A

JOHNSON COUNTY AIRPORT
MOUNTAIN CITY, TN

Michael Baker INTERNATIONAL

Designer:	Checked by:
Robert D. Farrar	**Jim Duguay**
Technician: **Folashade Shelton**	Project Number: **180617**

NOTES:

1. ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL).
2. BRL INDICATES INNER LIMITS FOR A 25' HIGH BUILDING (2,258.4' MSL).
3. DRAWING IS BASED ON NAD83 HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM.
4. THERE ARE TERRAIN PENETRATIONS WITHIN THE OBSTACLE FREE ZONE (OFZ).
5. REFER TO AIRPORT LAYOUT DRAWING, APPROACH DRAWING, AND INNER PORTION OF THE APPROACH DRAWING FOR CLOSE-IN OBSTRUCTIONS.
6. REFER TO AIRSPACE DRAWING FOR OBSTRUCTIONS WITHIN HORIZONTAL & CONICAL SURFACES.
7. REFER TO INNER PORTION OF THE APPROACH DRAWING FOR CLOSE IN OBSTRUCTIONS.
8. ULTIMATE LAND ACQUISITION SHOULD BE COORDINATED WITH TDOT, AERONAUTICS DIVISION.
9. ALL GVGSI SITING MUST BE IN ACCORDANCE WITH FAA GUIDANCE.
10. RUNWAY 7-25 CURRENTLY HAS NO THRESHOLD LIGHTING.

AIRPORT SPONSOR APPROVAL

THIS AIRPORT DRAWING IS APPROVED BY:

(SIGNATURE)_____DATE:_____

NAME:_____

TITLE: _____

REVISIONS

No.	Description	Date	By

Project Name:

AIRPORT LAYOUT PLAN UPDATE

Drawing Name:

CAPITAL IMPROVEMENTS PLAN DRAWING

TAD Project Number:

46-555-0127-21

Date:	Division:
DECEMBER 2022	**PLANNING**
Scale: (24X36) **1"=400'**	Sheet Number:
	Drawing Number: **12**

O:\6A4 - Johnson County Airport\180617_2020 ALP Update\Drawings\2021 ALP SET\Plan\12-6A4-Capital Improvement Drawing.dwg Modified: Oct 18, 2022 - 1:17pm Plotted: Dec 21, 2022 - 9:33am Robert.Farrar