

AIRPORT LAYOUT PLAN SET FOR THE UPPER CUMBERLAND REGIONAL AIRPORT

TAD NO. 93-555-0560-19

PREPARED FOR THE
UPPER CUMBERLAND REGIONAL AIRPORT BOARD

STATE OF TENNESSEE

HONORABLE BILL LEE, GOVERNOR

DEPARTMENT OF TRANSPORTATION

CLAY BRIGHT, COMMISSIONER

TENNESSEE AERONAUTICS DIVISION

MICHELLE FRAZIER, DIRECTOR
J. P. SAALWAECHTER, P.E., CHIEF ENGINEER
MICHAEL STULTZ, PROJECT MANAGER

CITY OF SPARTA

JEFF YOUNG, CITY MAYOR

CITY OF COOKEVILLE

RICKY SHELTON, CITY MAYOR

WHITE COUNTY

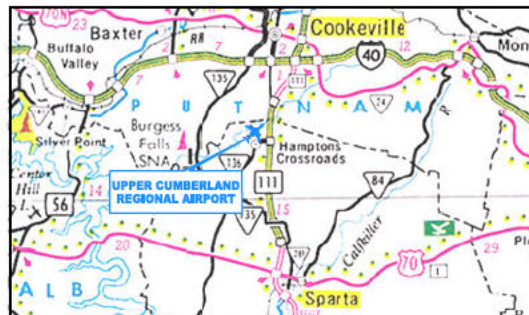
DENNY ROBINSON, COUNTY MAYOR

PUTNAM COUNTY

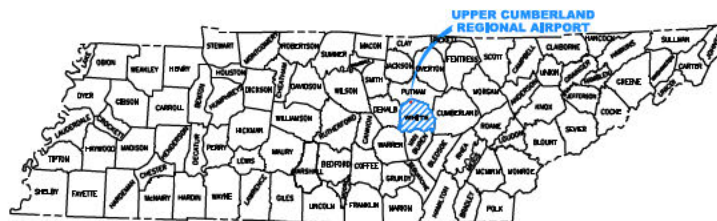
RANDY PORTER, COUNTY MAYOR

UPPER CUMBERLAND REGIONAL AIRPORT BOARD

RANDY PORTER, CHAIRMAN
JEFF YOUNG, VICE CHAIR
PETE ZIEGLER, SECRETARY
RICKY SHELTON, BOARD MEMBER
DENNY ROBINSON, BOARD MEMBER
NATE MAXWELL, BOARD MEMBER
HOYTE JONES, BOARD MEMBER
CHARLES GREENE, BOARD MEMBER
DANNY COONCE, BOARD MEMBER
DEAN SELBY, AIRPORT MANAGER



VICINITY MAP
750 AIRPORT ROAD
SPARTA, TENNESSEE 38583



LOCATION MAP



RICHARD C. RINKS & ASSOCIATES, INC.
30 NORTH JEFFERSON AVE.
COOKEVILLE, TN 38501
PHONE: (931) 528-5543

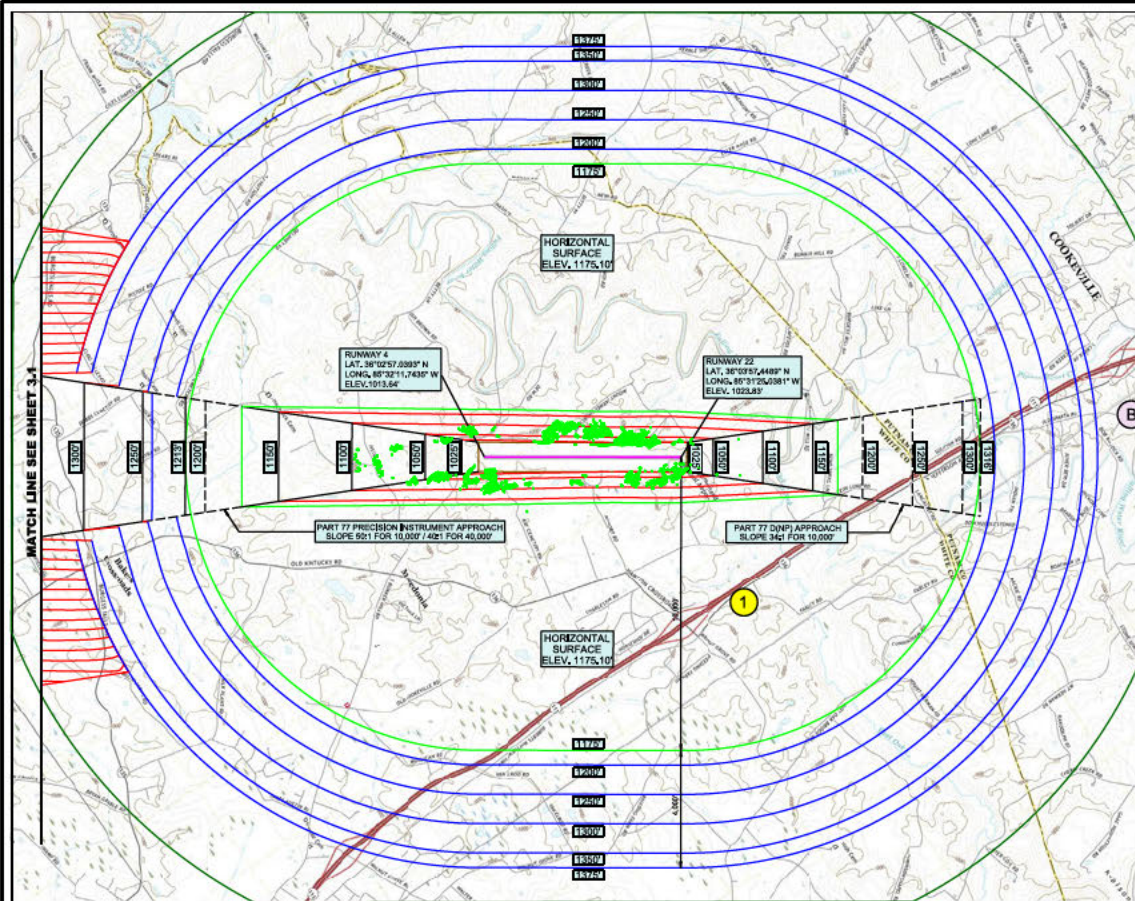


133 HOLIDAY COURT
SUITE 102
FRANLIN, TN 37067

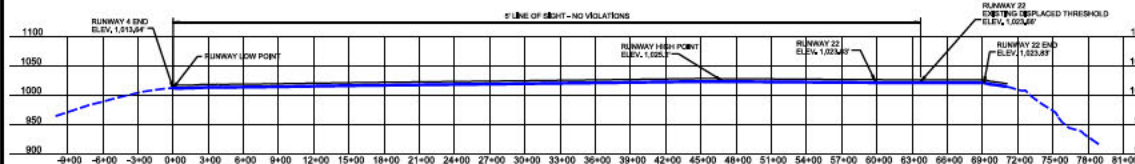
PHONE: (615) 614-0121
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INDEX OF DRAWINGS

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7	AIRPORT CAPITAL IMPROVEMENT PLAN
8	EXHIBIT "A" AIRPORT PROPERTY INVENTORY MAP



PLAN VIEW

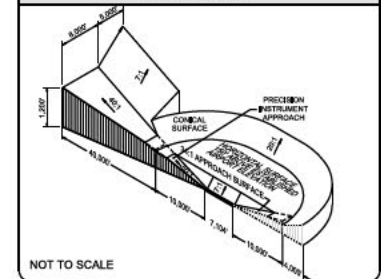


RUNWAY PROFILE VIEW

NOTES

1. GROUND BASE, LEGS, TOPOGRAPHIC MAPS, 20' CONTOUR INTERVAL. DATE OF MAP COMPILED 2018.
2. SEE AID AND APPROACH PLANS FOR OBSTRUCTIONS WITHIN PRIMARY SURFACE, TRANSITIONAL SURFACES, APPROACH SURFACES, AND HORIZONTAL SURFACE (WITHIN THE LIMITS OF THE AERIAL SURVEY).
3. DATE OF OBSTRUCTION SURVEY USED: JUNE, 2018.
4. DATE OF TOWER SEARCH COMPLETED SEPTEMBER 21, 2020.
5. AIRPORT CURRENTLY HAS AIRSPACE HEIGHT ZONING COORDINANCE IN PLACE IN BOTH WHITE AND PUTNAM COUNTY, WHICH WAS UPDATED IN 2020.
6. DASHED LINES ON AIRSPACE REPRESENT AREAS OF APPROACH SURFACE WHICH RISE ABOVE HORIZONTAL SURFACE.

ISOMETRIC VIEW



PART 77 OBSTRUCTION

#	DESCRIPTION	LATITUDE	LONGITUDE	TOP ELEVATION	GROUND ELEVATION	STRUCTURE HEIGHT	PENETRATION	DISPOSITION
1	TOWER	36° 03' 42.58" N	85° 35' 22.48" W	1,150'	980'	170'	24.9'	ADD / MAINTAIN LIGHTING
2	TOWER	35° 08' 04.96" N	85° 37' 40.64" W	1,249'	1,055'	194'	60.6'	ADD / MAINTAIN LIGHTING
3	TOWER	35° 57' 31.08" N	85° 37' 14.38" W	1,221'	1,022'	198'	72.0'	ADD / MAINTAIN LIGHTING

* SHOWN ON SHEET 3.1

OBSTACLES

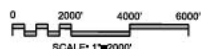
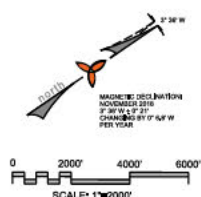
ITEMS WITHIN VICINITY OF AIRPORT WITH NO PENETRATION TO PART 77

#	DESCRIPTION	LATITUDE	LONGITUDE	TOP ELEVATION	GROUND ELEVATION	STRUCTURE HEIGHT	DISPOSITION
A	TOWER	35° 57' 42.25" N	85° 38' 55.29" W	1,303'	1,059'	245'	MAINTAIN LIGHTING
B	TOWER	35° 06' 04.59" N	85° 29' 59.29" W	1,170'	1,059'	114'	MAINTAIN LIGHTING

* SHOWN ON SHEET 3.1

LEGEND

DESCRIPTION	ULTIMATE
APPROACH SURFACE	[Symbol]
RUNWAY	[Symbol]
HORIZONTAL SURFACE	[Symbol]
CONICAL SURFACE	[Symbol]
TAXIWAY	[Symbol]
TRANSITIONAL SURFACE	[Symbol]
PRIMARY SURFACE	[Symbol]
OBSTRUCTIONS TO PT 77	[Symbol]
TOWER WITHIN LIMITS OF PT 77	[Symbol]
OBSTRUCTIONS OUTSIDE OF PT 77	[Symbol]



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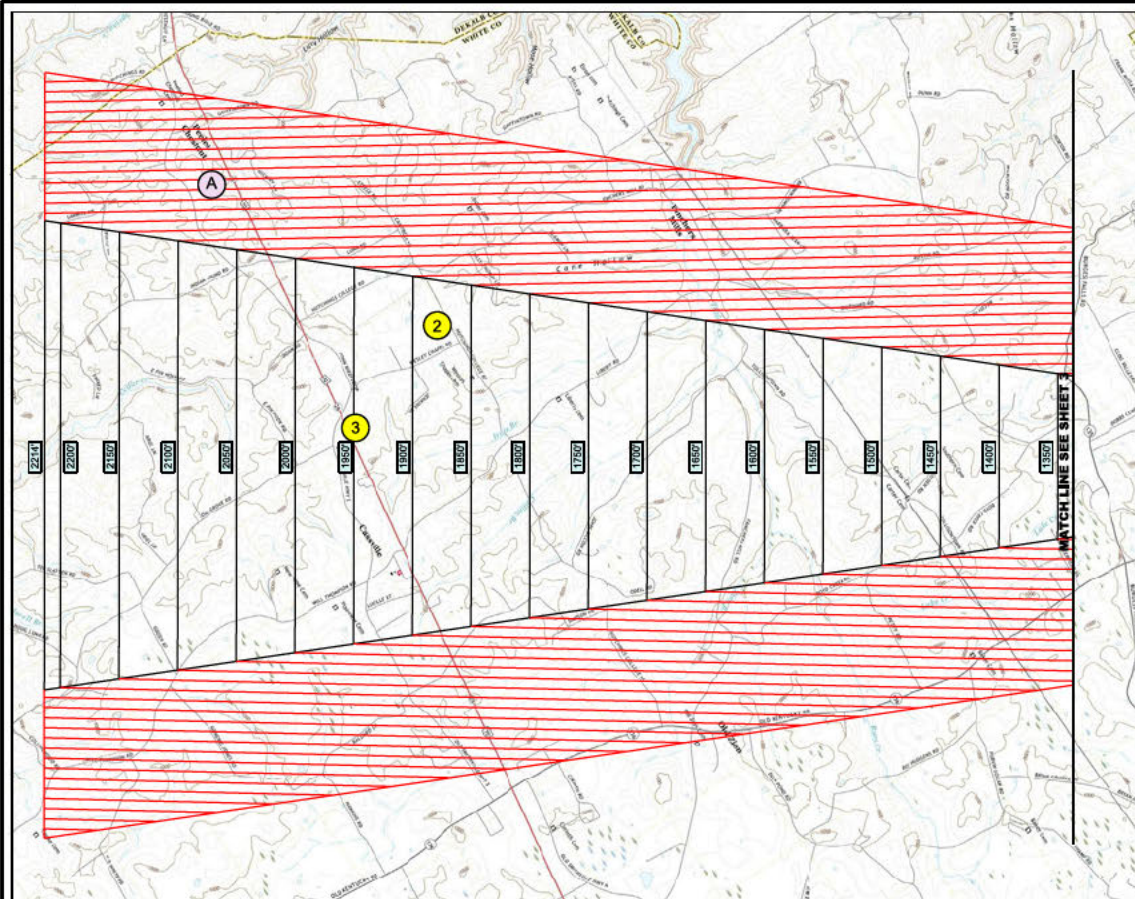
DR.	CHK.	DATE	DESCRIPTION
ES	TO	NOV. 2019	90% REVIEW
ES	TO	NOV. 2020	90% REVIEW
ES	TO	FEB. 2021	90% REVIEW
ES	TO	MAY 2021	FINAL

AIRSPACE DRAWING
AIRPORT LAYOUT PLAN SET
UPPER CUMBERLAND REGIONAL AIRPORT
SPARTA, WHITE COUNTY, TENNESSEE
T.A.D. NO. 93-555-0560-19

SHEET

3

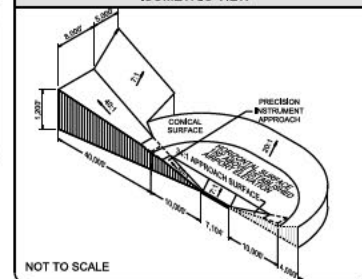
PROJECT NO:
14591-01



NOTES

1. GRID BASE, U.S.G.S. TOPOGRAPHIC MAPS, 20' CONTOUR INTERVAL, DATE OF MAP COMPILED 2019.
2. SEE AID AND APPROACH PLANS FOR OBSTRUCTIONS WITHIN PRIMARY SURFACE, TRANSITIONAL SURFACES, APPROACH SURFACES, AND HORIZONTAL SURFACE (WITHIN THE LIMITS OF THE AERIAL SURVEY).
3. DATE OF OBSTRUCTION SURVEY USED: JUNE, 2019.
4. DATE OF TOWER SEARCH COMPLETED SEPTEMBER 21, 2020.
5. AIRPORT CURRENTLY HAS AIRSPACE HEIGHT ZONING CONFORMANCE IN PLACE IN BOTH WHITE AND PUTNAM COUNTY, TN WHICH WAS UPDATED IN 2020.
6. DASHED LINES ON AIRSPACE REPRESENT AREAS OF APPROACH SURFACE WHICH RISE ABOVE HORIZONTAL SURFACE.

ISOMETRIC VIEW



PART 77 OBSTRUCTION

#	DESCRIPTION	LATITUDE	LONGITUDE	TOP ELEVATION	GROUND ELEVATION	STRUCTURE HEIGHT	PENETRATION	DISPOSITION
1	TOWER	38° 03' 43.88" N	85° 37' 23.48" W	1,190'	880'	110'	-24.0'	ADD / MAINTAIN LIGHTING
2	TOWER	38° 58' 04.36" N	85° 37' 43.64" W	1,240'	1,055'	184'	-42.0'	ADD / MAINTAIN LIGHTING
3	TOWER	38° 57' 31.59" N	85° 37' 14.38" W	1,220'	1,022'	199'	-72.0'	ADD / MAINTAIN LIGHTING

* SHOWN ON SHEET 3.1

OBSTACLES

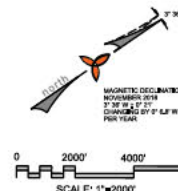
ITEMS WITHIN VICINITY OF AIRPORT WITH NO PENETRATION TO PART 77

#	DESCRIPTION	LATITUDE	LONGITUDE	TOP ELEVATION	GROUND ELEVATION	STRUCTURE HEIGHT	DISPOSITION
A*	TOWER	38° 57' 43.20" N	85° 38' 56.20" W	1,200'	1,030'	260'	
B	TOWER	38° 08' 04.92" N	85° 28' 58.28" W	1,170'	1,030'	134'	MAINTAIN LIGHTING

* SHOWN ON SHEET 3.1

LEGEND

DESCRIPTION	ULTIMATE
APPROACH SURFACE	PURPLE
PRIMARY SURFACE	PINK
HORIZONTAL SURFACE	GREEN
CONICAL SURFACE	BLUE
TRANSITIONAL SURFACE	ORANGE
PRIMARY SURFACE	RED
TREE OBSTRUCTIONS TO PT 77	GREEN
TOWER WITHIN LIMITS OF PT 77	YELLOW
OBSTACLES OUTSIDE OF PT 77	WHITE



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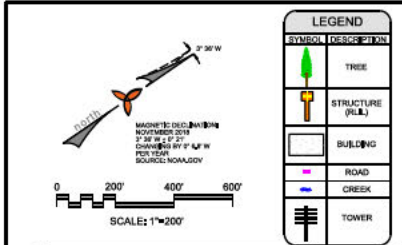
DR.	CHK.	DATE	DESCRIPTION
ES	TO	NOV. 2019	90% REVIEW
ES	TO	NOV. 2020	90% REVIEW
ES	TO	FEB. 2021	90% REVIEW
ES	TO	MAY 2021	FINAL

AIRSPACE DRAWING
AIRPORT LAYOUT PLAN SET
UPPER CUMBERLAND REGIONAL AIRPORT
SPARTA, WHITE COUNTY, TENNESSEE
T.A.D. NO. 93-555-0560-19

SHEET

3.1

PROJECT NO:
14921-01



ITEM	EXISTING	DATE
RUNWAY CENTERLINE	—	2019
RUNWAY OBJECT FREE AREA (ROFA)	—	2019
RUNWAY OBSTACLE FREE ZONE (ROFZ)	—	2019
APPROACH RUNWAY PROTECTION ZONE	—	2019
DEPARTURE RUNWAY PROTECTION ZONE	—	2019
PART 77 APPROACH SURFACE	—	2019
THRESHOLD BITING SURFACE	—	2019
VERTICALLY GUIDED SURFACE	—	2019
TAXIWAY OBJECT FREE AREA (TOFA)	—	2019
TAXIWAY SAFETY AREA (TSA)	—	2019
INNER APPROACH OBSTACLE FREE ZONE	—	2019
PRECISION OBSTACLE FREE ZONE	—	2019
AIRPORT PROPERTY LINE	—	2019
FENCE (HEIGHT VARIATION)	—	2019
TO GROUND ELEVATION CONTOURS	—	2019
VIOLATION EASMENT	—	2019
PART 77 VIOLATIONS	—	2019
RUNWAY LEAD IN LIGHT SYSTEM	—	2019
NAVAID CRITICAL AREA	—	2019

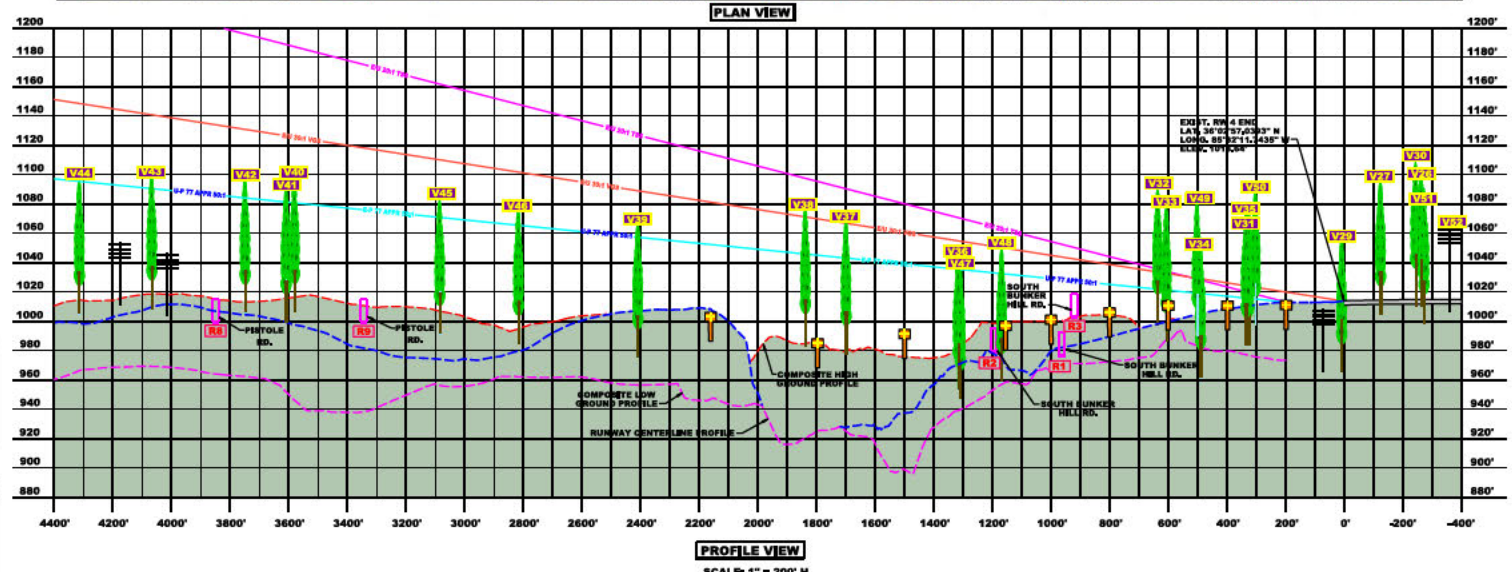
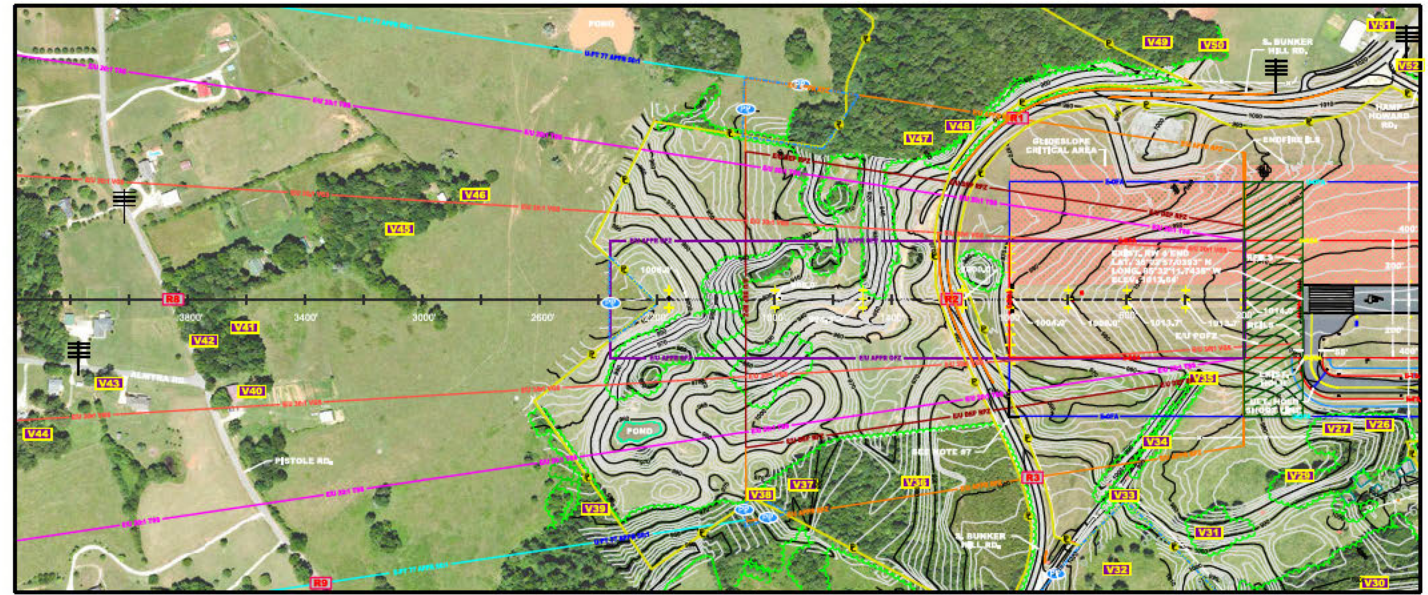
OBSTRUCTION DATA					
V#	DESCRIPTION	OBJECT ELEVATION	SURFACE AMOUNT	PENETRATION	PROPOSED ACTION
V201	TREE (PS)	1151.2'	1074.2'	77.0'	TRIM / REMOVE
V202	TREE (PS)	1095.2'	1013.8'	81.4'	TRIM / REMOVE
V203	TREE (TS)	1095.2'	1025.2'	27.0'	TRIM / REMOVE
V204	TREE (TS)	1106.2'	1060.9'	27.3'	TRIM / REMOVE
V205	TREE (TS)	1075.2'	1055.7'	19.5'	TRIM / REMOVE
V206	TREE (TS)	1092.2'	1073.7'	18.5'	TRIM / REMOVE
V207	TREE (TS)	1078.2'	1027.4'	40.8'	TRIM / REMOVE
V208	TREE (AS)	1092.2'	1019.2'	32.0'	TRIM / REMOVE
V209	TREE (AS)	1021.2'	1015.2'	6.0'	TRIM / REMOVE
V210	TREE (AS)	1045.2'	1035.1'	10.1'	TRIM / REMOVE
V211	TREE (AS)	1099.2'	1043.8'	25.4'	TRIM / REMOVE
V212	TREE (AS)	1071.2'	1046.2'	30.7'	TRIM / REMOVE
V213	TREE (AS)	1067.2'	1057.9'	9.3'	TRIM / REMOVE
V214	TREE (AS)	1097.1'	1081.4'	15.7'	TRIM / REMOVE
V215	TREE (AS)	1099.2'	1081.9'	17.3'	TRIM / REMOVE
V216	TREE (AS)	1099.2'	1094.2'	13.2'	TRIM / REMOVE
V217	TREE (AS)	1099.2'	1091.1'	8.1'	TRIM / REMOVE
V218	TREE (AS)	1096.2'	1095.9'	0.3'	TRIM / REMOVE
V219	TREE (AS)	1092.2'	1071.2'	11.0'	TRIM / REMOVE
V220	TREE (AS)	1075.1'	1066.1'	9.0'	TRIM / REMOVE
V221	TREE (AS)	1045.2'	1035.9'	10.3'	TRIM / REMOVE
V222	TREE (AS)	1095.2'	1033.1'	17.2'	TRIM / REMOVE
V223	TREE (TS)	1078.2'	1067.1'	11.1'	TRIM / REMOVE
V224	TREE (TS)	1087.2'	1065.9'	21.3'	TRIM / REMOVE
V225	TREE (TS)	1095.2'	1075.1'	14.6'	TRIM / REMOVE
V226	TREE (TS)	1093.2'	1059.7'	7.4'	REMOVE / BURY LINE

NOTE: PART 77 VIOLATIONS SHOWN ARE NOT ALL CONSIDERED OBSTRUCTIONS AND DO NOT ALL NEGATIVELY EFFECT RUNWAYS ESTABLISHED APPROACHES.

TRAVERSE WAY VIOLATIONS					
#	NAME	GROUND ELEVATION (FT)	TS SURFACE ELEV. (FT)	APPROACH SURFACE ELEV. (FT)	PROPOSED ACTION
1	S. BUNKER HILL ROAD	987	942	1.032'	-45.0'
2	S. BUNKER HILL ROAD	987	989	1.033'	-38.0'
3	S. BUNKER HILL ROAD	1,004	1,019	1.026'	-15.0'
4	PISTOLE ROAD	1,002	1,018	1.087'	-16.0'
5	PISTOLE ROAD	975	991	1.076'	-16.0'

* 10' ADDED FOR ROAD CLEARANCE

- NOTES**
- SEE SHEET 1 FOR ADDITIONAL PART 77 VIOLATIONS TO TRANSITIONAL SURFACES.
 - A08 OBSTRUCTION SURVEY COMPLETED JUNE 2019.
 - OBSTRUCTION TO PART 77 SURFACES ARE NOT LIMITED TO VIOLATIONS LISTED.
 - PROPERTY LINE LOCATION SHOWN IS APPROXIMATE.
 - NO THRESHOLD BITING SURFACE VIOLATIONS.
 - TRAVERSE WAY POINTS DETECTED ON PROFILE VIEW ARE SHOWN AT TOP OF CLEARANCE LIMIT.
 - THE 5.02 ACRE PORTION OF THE RUNWAY OBJECT FREE AREA AT THE SOUTHEAST CORNER WHICH LIES BEYOND THE AIRPORT PROPERTY LINE IS CONTROLLED BY WAY OF JURISDICTION OF AIRPORT SPONSOR.



RCRA
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DR. CHK. DATE DESCRIPTION

ES TO NOV. 2019 90% REVIEW

ES TO NOV. 2020 90% REVIEW

ES TO FEB. 2021 90% REVIEW

ES TO MAY 2021 FINAL

INNER APPROACH SURFACE DRAWING - RUNWAY 4

AIRPORT LAYOUT PLAN SET

UPPER CUMBERLAND REGIONAL AIRPORT

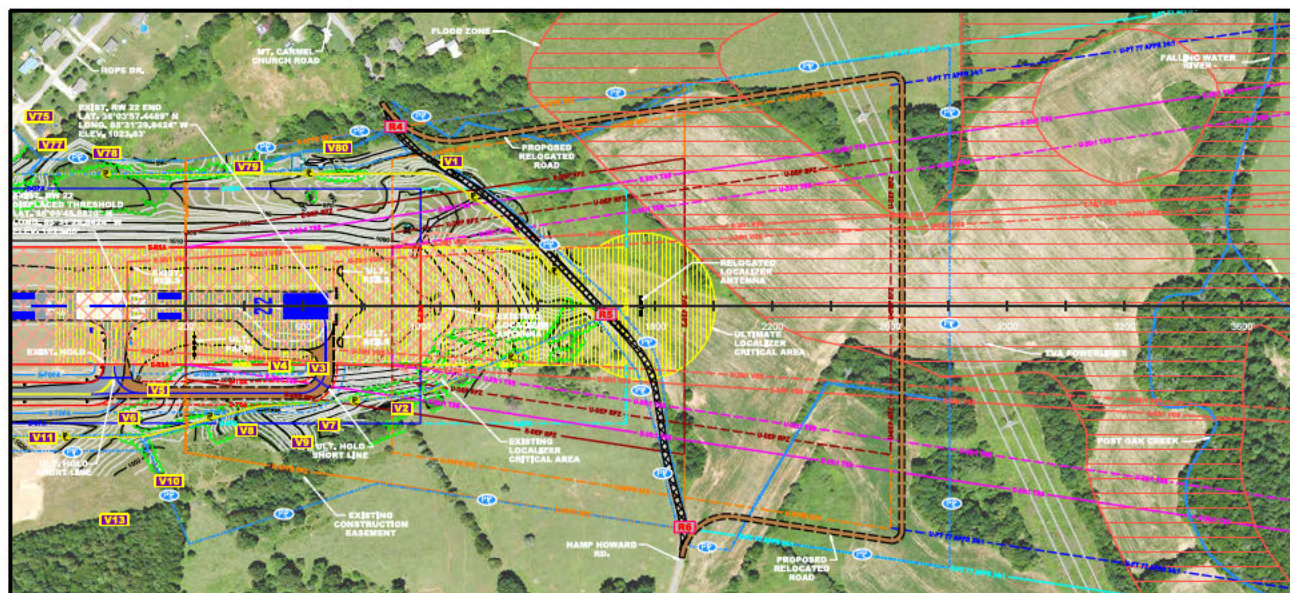
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T.A.D. NO. 93-555-0560-19

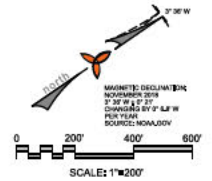
SHEET

4

PROJECT NO. 14901-01

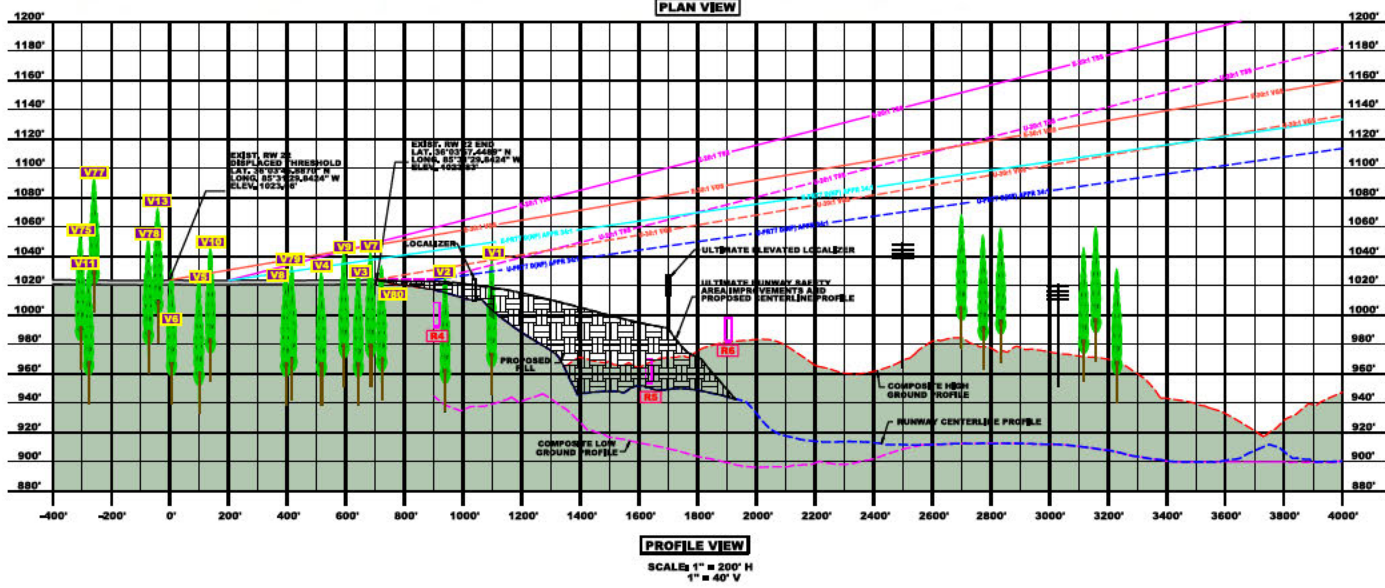


LEGEND	
	TREE
	STRUCTURE
	BUILDING
	ROAD
	CREEK
	TOWER



LEGEND		
ITEM	EXISTING	ULTIMATE
RUNWAY CENTERLINE	---	---
RUNWAY SAFETY AREA (RSA)	---	---
RUNWAY OBJECT FREE AREA (ROFA)	---	---
RUNWAY OBSTACLE FREE ZONE (ROFZ)	---	---
APPROACH RUNWAY PROTECTION ZONE	---	---
DEPARTURE RUNWAY PROTECTION ZONE	---	---
PART 77 APPROACH SURFACE	---	---
THRESHOLD END SURFACE	---	---
VERTICALLY GUIDED SURFACE	---	---
TAXIWAY OBJECT FREE AREA (TOFA)	---	---
TAXIWAY SAFETY AREA (TSA)	---	---
APPROACH PAVEMENT	---	---
PROPERTY LINE	---	---
FENCE (HEIGHT VARIES)	---	---
10' GROUND ELEVATION CONTOURS	---	---
AVIATION EASEMENT	---	---
PART 77 VIOLATIONS	---	---
RUNWAY LEAD LIGHT SYSTEM	---	---
UNAVOID CRITICAL AREA	---	---

* 2400' GROUND ELEVATION CONTOURS SHOWN IN GRAY.



OBSTRUCTION DATA					
V#	DESCRIPTION	OBJECT ELEVATION (FT.)	SURFACE ELEVATION (FT.)	PENETRATION AMOUNT	PROPOSED DESCRIPTION
V1	TREE (AS)	1036.7	1035.4	0.3	TRIM / REMOVE
V2	TREE (AS)	1025.6	1025.6	0.0	TRIM / REMOVE
V3	TREE (PS)	1030.2	1023.7	6.5	TRIM / REMOVE
V4	TREE (PS)	1024.1	1023.6	0.5	TRIM / REMOVE
V5	TREE (PS)	1024.1	1022.9	1.2	TRIM / REMOVE
V6	TREE (PS)	1020.0	1022.8	0.0	TRIM / REMOVE
V7	TREE (PS)	1044.6	1023.6	12.0	TRIM / REMOVE
V8	TREE (PS)	1033.2	1023.7	1.0	TRIM / REMOVE
V9	TREE (PS)	1042.8	1023.7	19.3	TRIM / REMOVE
V10	TREE (TS)	1040.6	1035.3	11.7	TRIM / REMOVE
V11	TREE (TS)	1034.7	1022.2	12.5	TRIM / REMOVE
V12	TREE (TS)	1074.7	1024.3	15.0	TRIM / REMOVE
V13	TREE (TS)	1054.0	1043.2	10.8	TRIM / REMOVE
V14	TREE (TS)	1034.0	1055.2	44.3	TRIM / REMOVE
V15	TREE (TS)	1051.2	1025.7	25.3	TRIM / REMOVE
V16	TREE (PS)	1034.0	1023.4	11.0	TRIM / REMOVE
V17	TREE (TS)	1033.7	1025.6	3.0	TRIM / REMOVE

NOTE: PART 77 VIOLATIONS SHOWN ARE NOT ALL CONSIDERED OBSTRUCTIONS AND DO NOT ALL NEARLY EFFECT AIRPORT ESTABLISHED APPROACHES.

TRAVERSE WAY VIOLATIONS						
#	NAME	GROUND ELEVATION (FT.)	* TOP ELEVATION (FT.)	APPROACH SURFACE ELEV. (FT.)	PENETRATION (FT.)	PROPOSED ACTION
101	MT. CARMEL CHURCH ROAD	987	987	1,044.2	-42.3	NONE
102	MT. CARMEL CHURCH ROAD	987	970	1,065.1	-45.1	NONE
103	MT. CARMEL CHURCH ROAD	983	998	1,073.4	-75.4	NONE

* 15' ADDED FOR ROAD CLEARANCE

- NOTES**
- SEE SHEET 1 FOR ADDITIONAL PART 77 VIOLATIONS TO TRANSITIONAL SURFACES.
 - AGIS OBSTRUCTION SURVEY COMPLETED JUNE, 2019.
 - OBSTRUCTION TO PART 77 SURFACES ARE NOT LIMITED TO VIOLATIONS LISTED.
 - PROPERTY LINE LOCATION SHOWN IN APPROXIMATE.
 - NO THRESHOLD SETTING SURFACE VIOLATIONS.
 - TRAVERSE WAY POINTS DEPICTED ON PROFILE VIEW ARE SHOWN AT TOP OF CLEARANCE LIMIT.



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DR.	CHK.	DATE	DESCRIPTION
ES	TO	NOV. 2019	30% REVIEW
ES	TO	NOV. 2020	60% REVIEW
ES	TO	FEB. 2021	90% REVIEW
ES	TO	MAY 2021	FINAL

INNER APPROACH SURFACE DRAWING - RUNWAY 22
AIRPORT LAYOUT PLAN SET
UPPER CUMBERLAND REGIONAL AIRPORT
SPARTA, WHITE COUNTY, TENNESSEE
T.A.D. NO. 93-555-0560-19

SHEET
5
PROJECT NO.
14951-01

