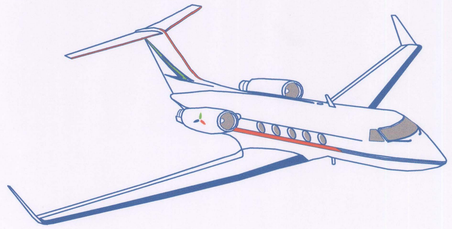
AIRPORT LAYOUT PLAN
FOR THE
WARREN COUNTY MEMORIAL AIRPORT
TAD NO. 89-555-0754-04
PREPARED FOR THE
WARREN COUNTY AIRPORT COMMISSION



STATE OF TENNESSEE

HONORABLE BILL HASLAM, GOVERNOR

DEPARTMENT OF TRANSPORTATION

JOHN SCHROER, COMMISSIONER

TENNESSEE AERONAUTICS DIVISION

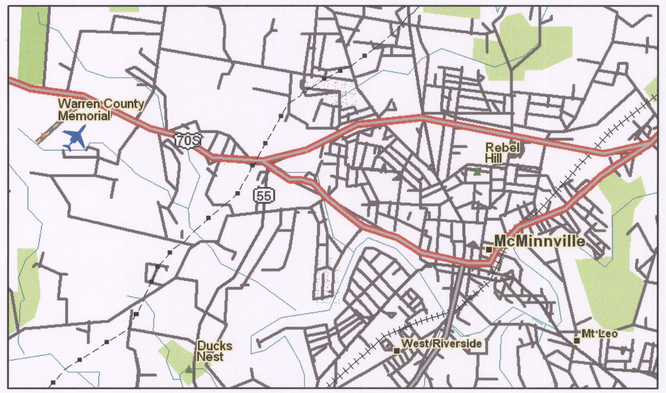
ROBERT V. WOODS, DIRECTOR
TOM BURGESS, P.E., CHIEF ENGINEER

WARREN COUNTY

JOHN PELHAM, COUNTY EXECUTIVE

WARREN COUNTY AIRPORT COMMISSION

JOE LANE HOWARD, CHAIRMAN
DR. MIKE ROBERTS, COMMISSIONER
CLINTON HILL, COMMISSIONER
DR. HARRY BURCK, COMMISSIONER
KEITH BOULDIN, COMMISSIONER



SITE LOCATION MAP

4187 NASHVILLE HIGHWAY
McMINNVILLE, TN

INDEX OF DRAWINGS

PLANNING DESIGN & CONSTRUCTION
CONSULTANTS

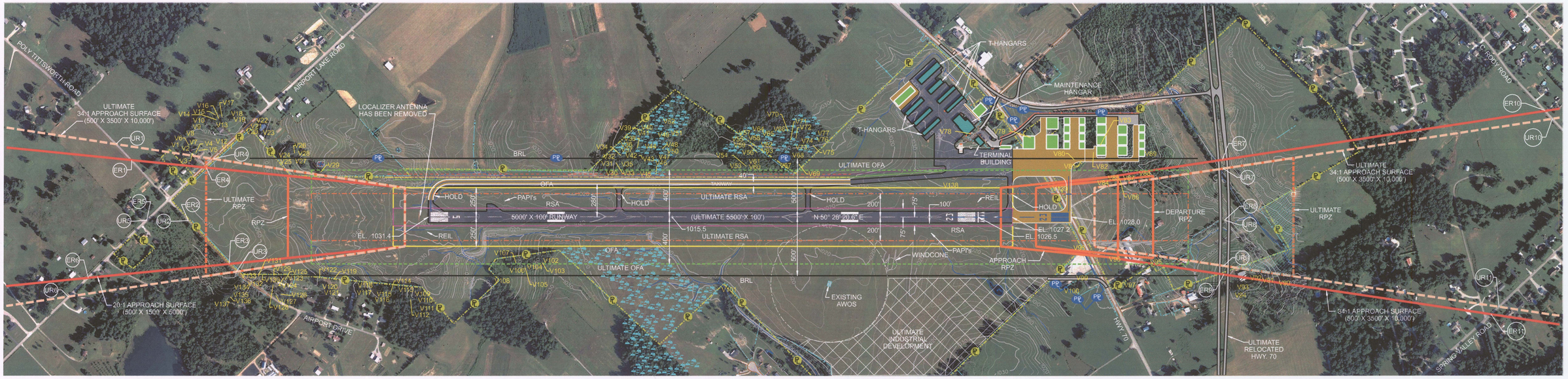
PDC CONSULTANTS, LLC.
133 Holiday Court
Suite 102
Franklin, TN 37067
Phone: (615) 614-0121
Fax: (615) 614-0124

CRITICAL AIRPORT INFORMATION

NOVEMBER 2011

PDC JOB NUMBER : 10505-01

G:\10\10505 McMinnville ALP Update\10505-01\cadd\105050\COV.DGN



FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V1	TREE	1158.0	4.0'	59.1'	TRIM/REMOVE	REMOVE
V2	TREE	1103.3	-	9.2'	NONE	TRIM/REMOVE
V3	BUILDING	1093.0	-	5.9'	NONE	REMOVE
V4	TREE	1143.6	5.6'	55.7'	TRIM/REMOVE	REMOVE
V5	TREE	1134.3	-	44.1'	NONE	REMOVE
V6	TREE	1111.3	-	13.5'	NONE	TRIM/REMOVE
V7	TREE	1109.0	-	8.0'	NONE	TRIM/REMOVE
V8	TREE	1146.8	-	34.6'	NONE	TRIM/REMOVE
V9	TREE	1148.2	-	28.5'	NONE	TRIM/REMOVE
V10	TREE	1137.5	-	10.1'	NONE	TRIM/REMOVE
V11	POLE	1107.2	-	14.3'	NONE	LIGHT/REMOVE
V12	POLE	1106.4	-	6.2'	NONE	LIGHT/REMOVE
V13	TREE	1164.4	0.1'	44.2'	TRIM/REMOVE	REMOVE
V14	TREE	1173.5	0.5'	46.4'	TRIM/REMOVE	REMOVE
V15	TREE	1162.6	-	29.4'	NONE	TRIM/REMOVE
V16	TREE	1167.3	-	38.7'	NONE	TRIM/REMOVE
V17	TREE	1162.9	-	32.7'	NONE	TRIM/REMOVE
V18	TREE	1148.9	-	18.4'	NONE	TRIM/REMOVE
V19	TREE	1149.2	-	21.6'	NONE	TRIM/REMOVE
V20	TREE	1135.5	-	25.5'	NONE	TRIM/REMOVE
V21	TREE	1124.3	-	7.9'	NONE	TRIM/REMOVE

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V22	TREE	1142.9	-	19.4'	NONE	TRIM/REMOVE
V23	TREES	1143.0	2.4'	35.4'	TRIM	TRIM/REMOVE
V24	TREE	1140.4	33.2'	62.3'	TRIM/REMOVE	REMOVE
V25	TREE	1143.3	39.9'	68.5'	TRIM/REMOVE	REMOVE
V26	TREE	1130.7	22.9'	49.7'	TRIM/REMOVE	REMOVE
V27	TREE	1108.0	12.8'	37.6'	TRIM/REMOVE	TRIM/REMOVE
V28	TREE	1115.6	11.5'	35.7'	TRIM/REMOVE	TRIM/REMOVE
V29	TREE	1110.3	34.4'	54.5'	TRIM/REMOVE	REMOVE
V30	TREES	1087.2	51.3'	51.3'	REMOVE	REMOVE
V31	TREES	1099.7	52.0'	52.0'	REMOVE	REMOVE
V32	TREES	1093.4	36.9'	36.9'	TRIM/REMOVE	TRIM/REMOVE
V33	TREES	1102.1	53.8'	53.8'	REMOVE	REMOVE
V34	TREES	1105.6	48.7'	48.7'	REMOVE	REMOVE
V35	TREES	1090.8	45.0'	45.0'	REMOVE	REMOVE
V36	TREES	1106.3	38.8'	38.8'	TRIM/REMOVE	TRIM/REMOVE
V37	TREES	1109.3	46.1'	46.1'	REMOVE	REMOVE
V38	TREES	1111.8	46.3'	46.3'	REMOVE	REMOVE
V39	TREES	1109.2	23.0'	23.0'	TRIM/REMOVE	TRIM/REMOVE
V40	TREES	1114.3	26.1'	26.1'	TRIM/REMOVE	TRIM/REMOVE
V41	TREES	1113.5	30.9'	30.9'	TRIM/REMOVE	TRIM/REMOVE
V42	TREES	1101.1	50.2'	50.2'	REMOVE	REMOVE

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V43	TREES	1105.3	54.5'	54.5'	REMOVE	REMOVE
V44	TREES	1114.6	48.3'	48.3'	REMOVE	REMOVE
V45	TREES	1102.3	60.5'	60.5'	REMOVE	REMOVE
V46	TREES	1094.5	50.8'	50.8'	REMOVE	REMOVE
V47	TREES	1093.9	40.9'	40.9'	TRIM/REMOVE	TRIM/REMOVE
V48	TREES	1104.0	40.9'	40.9'	TRIM/REMOVE	TRIM/REMOVE
V49	TREES	1113.9	33.9'	33.9'	TRIM/REMOVE	TRIM/REMOVE
V50	TREES	1072.0	12.1'	12.1'	TRIM/REMOVE	TRIM/REMOVE
V51	TREES	1106.1	24.2'	24.2'	TRIM/REMOVE	TRIM/REMOVE
V52	TREES	1108.9	12.6'	12.6'	TRIM/REMOVE	TRIM/REMOVE
V53	TREES	1093.2	49.0'	49.0'	REMOVE	REMOVE
V54	TREES	1093.2	49.3'	49.3'	REMOVE	REMOVE
V55	TREES	1113.0	36.2'	36.2'	TRIM/REMOVE	TRIM/REMOVE
V56	TREES	1112.5	51.2'	51.2'	REMOVE	REMOVE
V57	TREES	1116.8	34.9'	34.9'	TRIM/REMOVE	TRIM/REMOVE
V58	TREES	1121.0	42.0'	42.0'	REMOVE	REMOVE
V59	TREES	1107.1	46.0'	46.0'	REMOVE	REMOVE
V60	TREES	1096.7	52.2'	52.2'	REMOVE	REMOVE
V61	TREES	1102.2	53.3'	53.3'	REMOVE	REMOVE
V62	TREES	1108.7	39.5'	39.5'	TRIM/REMOVE	TRIM/REMOVE
V63	TREES	1107.8	43.8'	43.8'	REMOVE	REMOVE

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V64	TREES	1120.6	34.0'	34.0'	TRIM/REMOVE	TRIM/REMOVE
V65	TREES	1121.2	36.4'	36.4'	TRIM/REMOVE	TRIM/REMOVE
V66	TREES	1116.9	28.3'	28.3'	TRIM/REMOVE	TRIM/REMOVE
V67	TREES	1099.3	53.0'	53.0'	REMOVE	REMOVE
V68	TREES	1113.2	60.2'	60.2'	REMOVE	REMOVE
V69	TREES	1105.0	56.7'	56.7'	REMOVE	REMOVE
V70	TREES	1123.2	34.8'	34.8'	TRIM/REMOVE	TRIM/REMOVE
V71	TREES	1121.7	43.8'	43.8'	REMOVE	REMOVE
V72	TREES	1120.4	40.4'	40.4'	REMOVE	REMOVE
V73	TREES	1117.5	48.3'	48.3'	REMOVE	REMOVE
V74	TREES	1122.1	44.6'	44.6'	REMOVE	REMOVE
V75	TREES	1119.2	47.5'	47.5'	REMOVE	REMOVE
V76	TREES	1124.1	41.5'	41.5'	REMOVE	REMOVE
V77	TREES	1124.3	39.0'	39.0'	TRIM/REMOVE	TRIM/REMOVE
V78	BEACON	1092.9	0.1'	0.7'	RELOCATE	RELOCATE
V79	TREES	1089.2	-	0.8'	NONE	TRIM
V80	TREES	1085.7	19.5'	23.3'	TRIM/REMOVE	TRIM/REMOVE
V81	TREES	1080.3	15.4'	19.4'	TRIM/REMOVE	TRIM/REMOVE
V82	TREES	1096.8	20.1'	24.8'	TRIM/REMOVE	TRIM/REMOVE
V83	TREES	1097.3	11.2'	16.1'	TRIM/REMOVE	TRIM/REMOVE
V84	POLE	1048.1	3.1	15.5'	LIGHT/REMOVE	LIGHT/REMOVE

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V85	TREES	1077.4	30.6'	36.4'	TRIM/REMOVE	TRIM/REMOVE
V86	HOUSE	1041.3	-	2.0'	NONE	REMOVE
V87	TREE	1080.9	30.9'	39.6'	TRIM/REMOVE	TRIM/REMOVE
V88	TREES	1099.0	13.3'	16.4'	TRIM/REMOVE	TRIM/REMOVE
V89	TREES	1077.8	-	4.5'	NONE	TRIM
V90	TREES	1087.6	-	1.5'	NONE	TRIM
V91	TREES	1097.3	11.4'	15.7'	TRIM/REMOVE	TRIM/REMOVE
V92	TREES	1091.4	7.2'	10.2'	TRIM	TRIM/REMOVE
V93	TREE	1098.4	6.4'	11.1'	TRIM	TRIM/REMOVE
V94	TREES	1103.1	0.3'	5.1'	TRIM	TRIM
V95	TREE	1056.7	-	5.5'	NONE	TRIM
V96	POLE	1046.3	-	1.1'	NONE	LIGHT/REMOVE
V97	TREE	1088.1	5.3'	10.1'	TRIM	TRIM/REMOVE
V98	POLE	1035.9	-	6.4'	NONE	LIGHT/REMOVE
V99	TREE	1068.3	-	1.7'	NONE	TRIM
V100	TREE	1085.5	-	3.2'	NONE	TRIM
V101	TREES	1080.6	11.6'	11.6'	TRIM/REMOVE	TRIM/REMOVE
V102	TREES	1080.4	40.0'	40.0'	REMOVE	REMOVE
V103	TREES	1085.9	42.5'	42.5'	REMOVE	REMOVE
V104	TREES	1086.3	39.7'	39.7'	TRIM/REMOVE	TRIM/REMOVE
V105	TREES	1084.1	33.6'	33.6'	TRIM/REMOVE	TRIM/REMOVE

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V106	TREES	1086.0	32.8'	32.8'	TRIM/REMOVE	TRIM/REMOVE
V107	TREES	1084.5	39.6'	39.6'	TRIM/REMOVE	TRIM/REMOVE
V108	TREES	1077.8	10.1'	10.1'	TRIM/REMOVE	TRIM/REMOVE
V109	TREES	1103.4	14.0'	14.1'	TRIM/REMOVE	TRIM/REMOVE
V110	TREES	1101.6	4.9'	4.8'	TRIM	TRIM
V111	TREES	1111.7	5.1'	5.1'	TRIM	TRIM
V112	TREES	1097.5	-	0.8'	NONE	TRIM
V113	TREES	1097.9	11.5'	13.2'	TRIM/REMOVE	TRIM/REMOVE
V114	TREES	1094.5	3.8'	8.0'	TRIM	TRIM
V115	TREES	1111.4	14.2'	20.1'	TRIM/REMOVE	TRIM/REMOVE
V116	TREES	1113.8	10.2'	17.0'	TRIM/REMOVE	TRIM/REMOVE
V117	TREE	1115.1	13.6'	24.1'	TRIM/REMOVE	TRIM/REMOVE
V118	TREE	1106.2	14.4'	24.5'	TRIM/REMOVE	TRIM/REMOVE
V119	TREE	1107.1	13.5'	30.9'	TRIM/REMOVE	TRIM/REMOVE
V120	TREE	1109.6	5.3'	23.8'	TRIM	TRIM/REMOVE
V121	TREE	1103.8	-	12.8'	NONE	TRIM/REMOVE
V122	TREE	1127.6	31.8'	52.3'	TRIM/REMOVE	REMOVE
V123	TREE	1089.0	-	11.5'	NONE	TRIM/REMOVE
V124	TREE	1109.6	2.8'	32.0'	TRIM	TRIM/REMOVE
V125	TREE	1109.1	-	28.3'	NONE	TRIM/REMOVE
V126	TREE	1104.9	-	6.5'	NONE	TRIM

FAR PART 77 VIOLATIONS						
SYMBOL	DESCRIPTION	ELEVATION	VIOLATION EXISTING	VIOLATION ULTIMATE	DISPOSITION EXISTING	DISPOSITION ULTIMATE
V127	TREE	1108.9	-	9.0'	NONE	TRIM
V128	TREE	1114.4	-	26.9'	NONE	TRIM/REMOVE
V129	TREE	1117.7	10.8'	42.2'	TRIM/REMOVE	REMOVE
V130	TREE	1125.1	14.9'	49.1'	TRIM/REMOVE	REMOVE
V131	TREE	1125.4	12.7'	47.9'	TRIM/REMOVE	REMOVE
V132	TREE	1108.1	-	21.0'	NONE	TRIM/REMOVE
V133	TREE	1119.7	4.5'	41.9'	TRIM	REMOVE
V134	TREE	1129.4	-	37.2'	NONE	TRIM/REMOVE
V135	TREE	1129.0	-	27.3'	NONE	TRIM/REMOVE
V136	TREE	1121.1	-	15.8'	NONE	TRIM/REMOVE
V137	TREES	1120.4	-	5.9'	NONE	TRIM
V138	TERRAIN	1031.0	5.0'	5.0'	REMOVE	REMOVE
V139	TERRAIN	1030.0	-	2.7'	NONE	REMOVE

NOTES

1. REFER TO TERMINAL AREA PLAN FOR ON-AIRPORT BUILDING IDENTIFICATION.
2. REFER TO INNER / OUTER APPROACH PLANS FOR PENETRATIONS TO APPROACH SURFACES.
3. PROPERTY LINES SHOWN ARE APPROXIMATE.
4. WETLAND LOCATIONS SHOWN ARE APPROXIMATE.
5. ULTIMATE RUNWAY END ELEVATION SHOWN. APPROXIMATE, FINAL ELEVATION WILL BE DETERMINED DURING DESIGN.
6. ULTIMATE RELOCATED HIGHWAY 7.

MODIFICATIONS				STANDARDS			
NO.	DESCRIPTION	BY	APPROVED	NO.	DESCRIPTION	BY	APPROVED

RUNWAY SAFETY AREA DETERMINATION

RUNWAY END NUMBER	STANDARD RSA LENGTH BEYOND RWY	STANDARD RSA WIDTH	ACTUAL RSA LENGTH BEYOND RWY	ACTUAL RSA WIDTH	VIOLATIONS TO RSA * ALONG SIDE OF RUNWAY	RSA DETERMINATION *	DATE APPROVED
EXISTING RUNWAY 5	300	150	700	150	NONE	MEETS STANDARD	
ULTIMATE RUNWAY 5	1,000	400	700	150	DITCHES AND GRADE	GRADE TO STANDARD	
EXISTING RUNWAY 23	300	150	1,000	150	NONE	MEETS STANDARD	
ULTIMATE RUNWAY 23	1,000	400	1,000	150	DITCHES AND GRADE	GRADE TO STANDARD	

RUNWAY DATA

ITEM		RUNWAY 5 EXISTING	RUNWAY 5 ULTIMATE	RUNWAY 23 EXISTING	RUNWAY 23 ULTIMATE
EFFECTIVE GRADIENT (%)		0.32%	0.29%	0.32%	0.29%
MAXIMUM GRADE CHANGE		0.76%	0.76%	0.76%	0.76%
WIND COVERAGE (%)		99.1%	SAME	99.1%	SAME
MAX. ELEVATION (MSL)		1031.4	1031.4	1031.4	1031.4
RUNWAY LENGTH		5,000'	5,500'	5,000'	5,500'
RUNWAY WIDTH		100'	SAME	100'	SAME
DISPLACED THRESHOLD *		NONE	SAME	290'	NONE
USABLE RUNWAY LENGTH		5,000'	5,500'	5,000'	5,500'
SURFACE TYPE		ASPHALT	SAME	ASPHALT	SAME
PAVEMENT STRENGTH	SWL	29,000 LBS.	45,000 LBS.	29,000 LBS.	45,000 LBS.
	DWL	48,000 LBS.	60,000 LBS.	48,000 LBS.	60,000 LBS.
APPROACH SURFACE SLOPE		20:1	34:1	34:1	SAME
APPROACH VISIBILITY MINIMUMS *		1 MILE	SAME	1 MILE	SAME
VISUAL APPROACH AIDS *		PAPI, REILS	SAME	PAPI, REILS	SAME
INSTRUMENT APPROACH AID *		NONE	GPS	GPS	SAME
RUNWAY LIGHTING		MIRL, MITL	SAME	MIRL, MITL	SAME
RUNWAY MARKING		NON-PRECISION	PRECISION	NON-PRECISION	PRECISION
STAGE LENGTH		500 MILES	SAME	500 MILES	SAME
FAR PART 77 CATEGORY		NPI	SAME	NPI	SAME
RUNWAY END COORDINATES (NAD 83) *		N 35° 41' 39.62" W 85° 51' 01.16"	ULTIMATE = SAME	N 35° 42' 11.02" W 85° 50' 14.34"	N 35° 42' 14.16" W 85° 50' 09.66"
RUNWAY END ELEVATIONS (MSL) *		1031.4	ULTIMATE = SAME	1027.2	1028.0
TDZ ELEVATION (MSL) *		1031.4	ULTIMATE = 1023.2	1027.2	1028.0

DECLARED DISTANCES

RUNWAY END ID	TORA	TODA	ASDA	LDA	LDA: APPROACH END RSA LENGTH	LDA: STOP END RSA LENGTH	ASDA: RSA LENGTH	DATE OF APPROVAL
5	5,000'	5,000'	5,000'	5,000'	1,000'	700'	700'	
23	5,000'	5,000'	5,000'	4,710'	700'	1,000'	1,000'	

RUNWAY SAFETY AREA DIMENSIONS

	WIDTH	LENGTH BEYOND RUNWAY ENDS
EXISTING	150'	300'
ULTIMATE	400'	1,000'

RUNWAY OBJECT FREE AREA DIMENSIONS

	WIDTH	LENGTH BEYOND RUNWAY ENDS
EXISTING	500'	300'
ULTIMATE	800'	1,000'

APPROACH RUNWAY PROTECTION ZONE DIMENSIONS

		INNER WIDTH	OUTER WIDTH	LENGTH
RUNWAY 5	EXISTING	500'	700'	1,000'
RUNWAY 5	ULTIMATE	500'	1,010'	1,700'
RUNWAY 23	EXISTING	500'	700'	1,000'
RUNWAY 23	ULTIMATE	500'	1,010'	1,700'

DEPARTURE RUNWAY PROTECTION ZONE DIMENSIONS

		INNER WIDTH	OUTER WIDTH	LENGTH
RUNWAY 5	EXISTING	500'	700'	1,000'
RUNWAY 5	ULTIMATE	500'	1,010'	1,700'
RUNWAY 23	EXISTING	500'	700'	1,000'
RUNWAY 23	ULTIMATE	500'	1,010'	1,700'

AIRPORT DATA

AIRPORT DATA	EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)	1031.4	1031.4
AIRPORT REFERENCE POINT COORDINATES (NAD 83)	LAT. N 35° 41' 55.32 * LONG. W 85° 50' 37.75 *	LAT. N 35° 41' 56.88* LONG. W 85° 50' 35.40*
MEAN MAX. TEMP. OF HOTTEST MONTH	89° F	SAME
AIRPORT TERMINAL AREA NAVAIDS	AWOS, ROTATING BEACON, WIND CONES	SAME
AIRPORT REFERENCE CODE / RUNWAY	B-II	C-II
DESIGN AIRCRAFT	FALCON 50	GULFSTREAM III
FUEL	JET A, 100LL	SAME

CONSTRUCTION NOTICE REQUIREMENT

To protect operational safety and future development, all proposed construction on the airport must be coordinated by the airport owner with the Tennessee Department of Transportation-Aeronautics Division prior to construction. TDOT-AD's review takes approximately 60 days.

EXISTING 20:1 TRAVERSE WAY *

NO.	ROAD ELEVATION	APPROACH SURFACE ELEVATION	PENETRATION (-)/ CLEARANCE (+) EXISTING (20:1)	PROPOSED ACTION
ER1	1076.5 + 15 = 1091.5	1149.8	+58.3'	NONE
ER2	1066.1 + 15 = 1081.1	1124.0	+42.9'	NONE
ER3	1061.2 + 15 = 1076.2	1103.4	+27.2'	NONE
ER4	1079.5 + 15 = 1094.5	1119.4	+24.9'	NONE
ER5	1085.2 + 15 = 1080.2	1141.7	+61.5'	NONE
ER6	1034.4 + 15 = 1049.4	1169.9	+120.5'	NONE

EXISTING 34:1 TRAVERSE WAY *

NO.	ROAD ELEVATION	APPROACH SURFACE ELEVATION	PENETRATION (-)/ CLEARANCE (+) EXISTING (34:1)	PROPOSED ACTION
ER7	991.9 + 15 = 1006.9	1074.1	+67.2'	NONE
ER8	996.9 + 15 = 1011.9	1074.6	+62.7'	NONE
ER9	1003.9 + 15 = 1018.9	1074.4	+55.5'	NONE
ER10	1029.8 + 15 = 1044.8	1157.0	+112.2'	NONE
ER11	1043.9 + 15 = 1058.9	1143.7	+84.8'	NONE

ULTIMATE 34:1 TRAVERSE WAY *

NO.	ROAD ELEVATION	APPROACH SURFACE ELEVATION	PENETRATION (-)/ CLEARANCE (+) ULTIMATE (34:1)	PROPOSED ACTION
UR1	1076.5 + 15 = 1091.5	1104.4	+12.9'	NONE
UR2	1066.1 + 15 = 1081.1	1088.9	+5.8'	NONE
UR3	1061.2 + 15 = 1076.2	1074.1	-2.1'	RELOCATE
UR4	1079.5 + 15 = 1094.5	1079.7	-14.8'	RELOCATE
UR5	1085.2 + 15 = 1080.2	1095.8	+15.4'	NONE
UR6	1034.4 + 15 = 1049.4	1115.9	+66.5'	NONE
UR7	991.9 + 15 = 1006.9	1061.1	+54.2'	NONE
UR8	996.9 + 15 = 1011.9	1061.4	+49.5'	NONE
UR9	1003.9 + 15 = 1018.9	1061.3	+42.4'	NONE
UR10	1029.8 + 15 = 1044.8	1143.7	+98.9'	NONE
UR11	1043.9 + 15 = 1058.9	1130.4	+71.5'	NONE

* ROAD ELEVATION GRADES ARE ASSUMPTIONS.
E = EXISTING, U = ULTIMATE

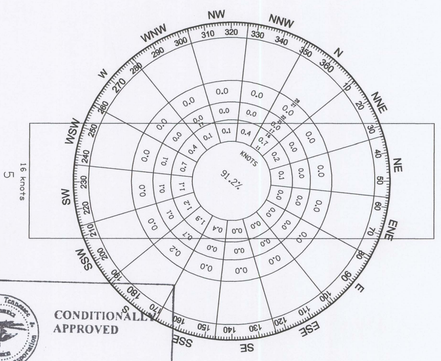
LEGEND

DESCRIPTION	EXISTING	ULTIMATE
RUNWAY CENTERLINE		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (ROFA)		
RUNWAY PROTECTION ZONE (RPZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
TAXIWAY SAFETY AREA		
BUILDING RESTRICTION LINE (BRL)		
AIRPORT PAVEMENT		
AIRPORT REFERENCE POINT	ARP	ARP
AIRPORT BUILDINGS		
OTHER BUILDINGS		
AIRPORT PROPERTY LINE	P	PPL
EASEMENT LINES	EE	UE
RAILROAD		
FENCE		
ROADS		
WETLANDS	WL	WL
GROUND ELEVATIONS CONTOURS	1025	1025
PAVEMENT TO BE REMOVED		
AWOS	AWOS	AWOS
PROPERTY SPOTLIGHTED FOR ULTIMATE AVIGATION EASEMENT		
AVIGATION EASEMENT		
FUTURE INDUSTRIAL DEVELOPMENT		

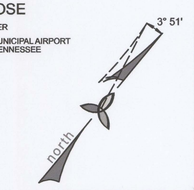
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
CONDITIONALLY APPROVED
STATE BLOCK GRANT PROGRAM
J. Tom Burgess, P.E. — Date 5/8/12
TN DEPT. OF TRANSPORTATION
Subject to Comments in Approval Letter

ALL WEATHER WIND ROSE

SOURCE: NATIONAL CLIMATIC DATA CENTER
OBSERVATION LOCATION: McMINNVILLE MUNICIPAL AIRPORT, McMINNVILLE, TENNESSEE
PERIOD: 1/01/2000 - 12/31/2009
OF OBSERVATIONS: 12,721
COVERAGE: 10.5 KNOTS = 96.5%; 13 KNOTS = 95.9%; 16 KNOTS = 99.1%



0 400' 800' 1200'
SCALE: 1"=400'



MAGNETIC DECLINATION: OCT. 2010
3° 51' W
CHANGE BY 0° 5' W PER YEAR

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PLANNING DESIGN & CONSTRUCTION
CONSULTANTS

DR.	CHK.	DATE	DESCRIPTION
ES	DG	NOVEMBER 2011	FAA / TAD COMMENTS ADDRESSED

AIRPORT LAYOUT DRAWING

AIRPORT LAYOUT PLAN SET

WARREN COUNTY MEMORIAL AIRPORT

McMINNVILLE, WARREN COUNTY, TENNESSEE
T.A.D. NO. 89-555-0754-04

APPROVAL BLOCK
JOHN PELHAM, COUNTY EXECUTIVE — DATE 8-27-2012
WARREN COUNTY

SHEET
C1
PROJECT NO: 10505-01

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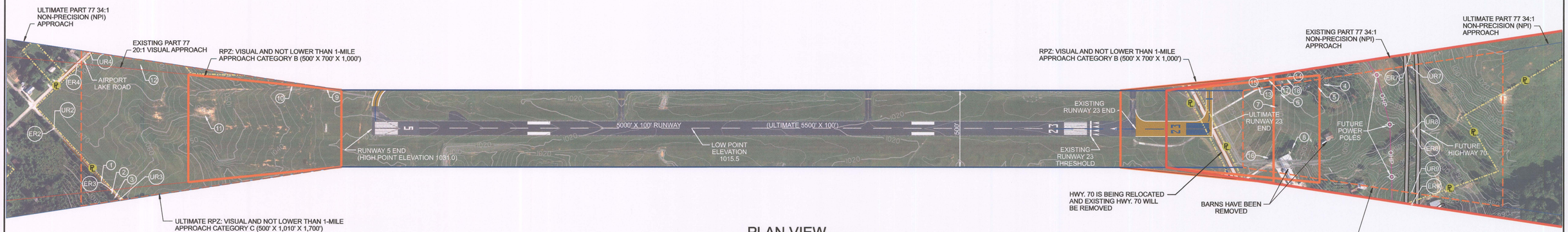
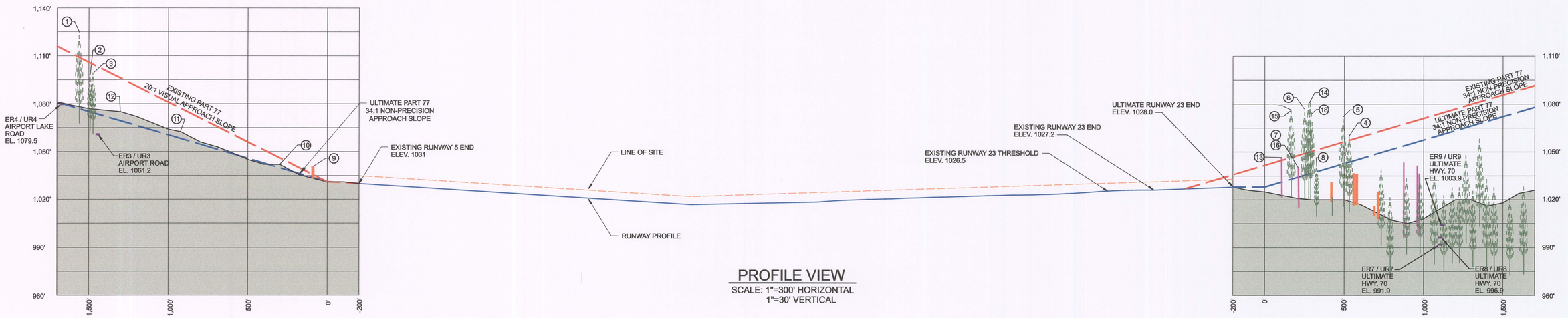


PLAN VIEW

SCALE: 1"=300'



PROFILE VIEW

SCALE: 1"=300' HORIZONTAL
1"=30' VERTICAL

OBSTRUCTION

PART 77 SURFACE: APPROACH

PART 77 SLOPE: EXISTING RW 5 = 20:1, EXISTING RW 23 = 34:1 ULTIMATE RW 5 AND RW 23 = 34:1

NO.	DESCRIPTION	TOP ELEVATION	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION	
					EXISTING	ULTIMATE
1	TREE	1124.4	15.0'	47.3'	TRIM / REMOVE	REMOVE
2	TREE	1097.9	-	22.8'	NONE	REMOVE
3	TREE	1099.4	-	25.0'	NONE	REMOVE
4	TREES	1060.0	2.5'	16.4'	REMOVE	REMOVE
5	TREE	1072.0	15.6'	29.5'	REMOVE	REMOVE
6	TREE	1076.8	27.6'	41.5'	REMOVE	REMOVE
7	UTILITY POLE	1039.9	-	5.7'	REMOVE	REMOVE
8	TREE	1043.5	-	5.9'	REMOVE	REMOVE
9	ELECTRICAL SHED	1040.6	4.1'	6.8'	REMOVE	REMOVE
10	TERRAIN	1042.0	-	2.8'	GRADE	GRADE
11	TERRAIN	1061.3	-	3.4'	GRADE	GRADE
12	TERRAIN	1075.0	-	5.6'	NONE	GRADE
UR3	AIRPORT ROAD **	1061.2	-	2.1	NONE	RELOCATE
UR4	AIRPORT LAKE ROAD **	1079.5	-	14.8	NONE	RELOCATE
13	POLE*	1048.1	3.1'	15.5'	REMOVE	REMOVE
14	TREE*	1080.9	31.0'	39.6'	REMOVE	SEE NOTE 1
15	TREE*	1077.4	30.5'	36.4'	REMOVE	SEE NOTE 1
16	UTILITY POLE	1035.9	-	3.1'	REMOVE	REMOVE
17	TREES*	1077.4	30.6'	86.4'	REMOVE	REMOVE
18	TREE*	1080.9'	30.9'	39.6'	REMOVE	REMOVE

* VIOLATIONS ARE IN EXISTING 34:1 APPROACH AND ULTIMATE TRANSITIONAL SURFACE.

** SEE AIRPORT LAYOUT DRAWING FOR TRAVERSE WAY PENETRATIONS.

NOTE

1. OBSTRUCTIONS TO PRIMARY SURFACE AND 7:1 TRANSITIONAL SURFACE SHOWN ON AIRPORT LAYOUT DRAWING.
2. ULTIMATE RUNWAY END ELEVATION SHOWN APPROXIMATE, FINAL ELEVATION WILL BE DETERMINED DURING DESIGN.

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DR.	CHK.	DATE	DESCRIPTION
ES	DG	NOVEMBER 2011	FAA / TAD COMMENTS ADDRESSED

INNER APPROACH SURFACE DRAWING

AIRPORT LAYOUT PLAN SET

WARREN COUNTY MEMORIAL AIRPORT

McMINNVILLE, WARREN COUNTY, TENNESSEE

T.A.D. NO. 89-555-0754-04

APPROVAL BLOCK

JOE HOWARD, CHAIRMAN — DATE

WARREN COUNTY AIRPORT COMMISSION

SHEET

C2

PROJECT NO: 10505-01

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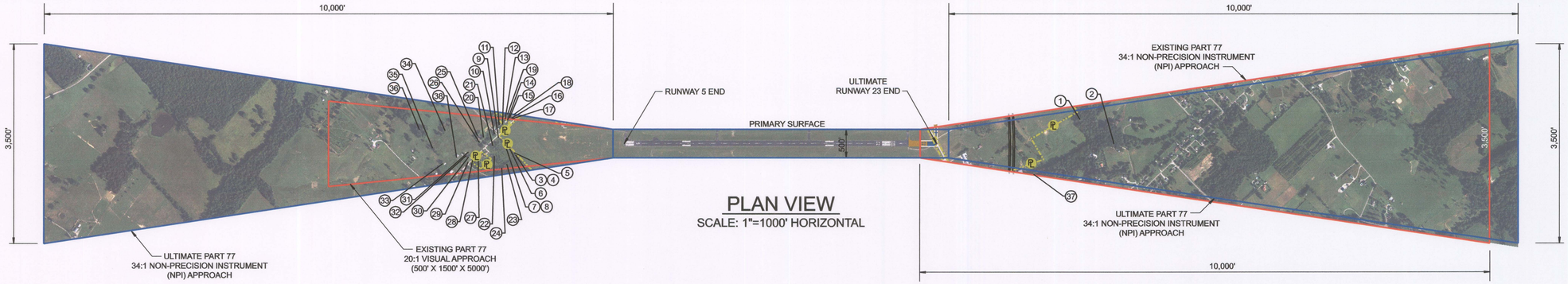
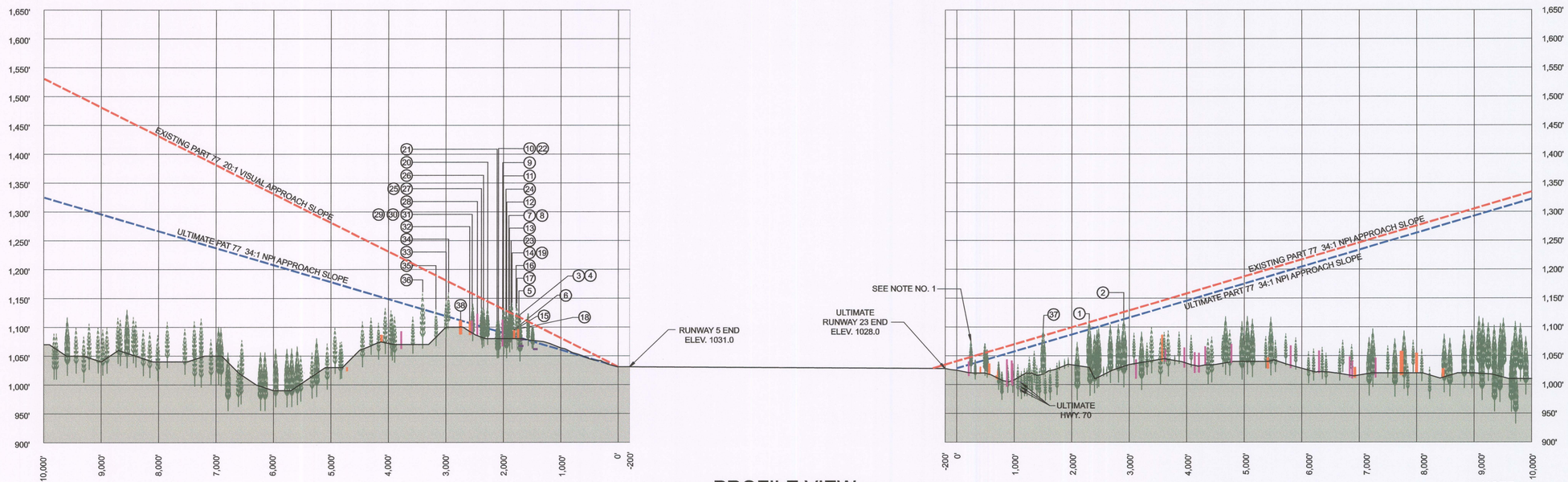


PLAN VIEW

SCALE: 1"=1000' HORIZONTAL



PROFILE VIEW

SCALE - 1"=1000' HORIZONTAL
1"=100' VERTICAL

NOTE

1. SEE ALD AND INNER APPROACH PLAN FOR MORE DETAIL OF OBSTRUCTIONS WITHIN PRIMARY SURFACE, 7:1 TRANSITIONAL SURFACE AND INNER APPROACH SURFACE.
2. ULTIMATE RUNWAY END ELEVATION SHOWN APPROXIMATE, FINAL ELEVATION WILL BE DETERMINED DURING DESIGN.

OBSTRUCTION

PART 77 SURFACE: APPROACH

PART 77 SLOPE: EXISTING RUNWAY 5 END = 20:1 VISUAL
EXISTING & ULTIMATE RUNWAY 23 END = 34:1 NPI
ULTIMATE RUNWAY 5 END = 34:1 NPI

NO.	DESCRIPTION	TOP ELEVATION	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION	
					EXISTING	ULTIMATE
1	TREE	1113.5	3.8'	17.7'	TRIM / REMOVE	TRIM / REMOVE
2	TREES	1116.8	-	3.4'	NONE	TRIM / REMOVE
3	TREE	1122.3	5.7'	41.0'	TRIM / REMOVE	REMOVE
4	TREE	1122.0	5.5'	40.7'	TRIM / REMOVE	REMOVE
5	TREE	1106.0	-	24.0'	NONE	TRIM / REMOVE
6	TREE	1095.5	-	11.0'	NONE	TRIM / REMOVE
7	TREE	1108.8	-	21.7'	NONE	TRIM / REMOVE
8	TREE	1108.8	-	21.6'	NONE	TRIM / REMOVE
9	POLE	1113.3	-	23.0'	NONE	LIGHT / REMOVE
10	TREE	1105.2	-	12.8'	NONE	TRIM / REMOVE
11	TREE	1134.8	3.7'	44.9'	TRIM / REMOVE	REMOVE
12	TREE	1128.2	-	40.0'	NONE	REMOVE
13	TREE	1138.4	12.6'	51.6'	TRIM / REMOVE	REMOVE

OBSTRUCTION

PART 77 SURFACE: APPROACH

PART 77 SLOPE: EXISTING RUNWAY 5 END = 20:1 VISUAL
EXISTING & ULTIMATE RUNWAY 23 END = 34:1 NPI
ULTIMATE RUNWAY 5 END = 34:1 NPI

NO.	DESCRIPTION	TOP ELEVATION	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION	
					EXISTING	ULTIMATE
14	TREE	1138.0	14.3'	52.5'	TRIM / REMOVE	REMOVE
15	HOUSE	1094.8	-	10.3'	NONE	LIGHT / REMOVE
16	TREE	1133.0	9.6'	49.5'	TRIM / REMOVE	REMOVE
17	TREE	1141.2	19.9'	58.3'	TRIM / REMOVE	REMOVE
18	HOUSE	1096.6	-	12.9'	NONE	LIGHT / REMOVE
19	TREE	1142.5	6.9'	57.0'	TRIM / REMOVE	REMOVE
20	TREE	1132.8	-	34.8'	NONE	TRIM / REMOVE
21	TREE	1108.6	-	15.4'	NONE	TRIM / REMOVE
22	TREE	1110.6	-	18.2'	NONE	TRIM / REMOVE
23	TREES	1097.3	-	11.4'	NONE	TRIM / REMOVE
24	TREE	1094.0	-	5.4'	NONE	TRIM / REMOVE
25	TREE	1133.8	-	32.7'	NONE	TRIM / REMOVE
26	TREE	1129.9	-	29.8'	NONE	TRIM / REMOVE

OBSTRUCTION

PART 77 SURFACE: APPROACH

PART 77 SLOPE: EXISTING RUNWAY 5 END = 20:1 VISUAL
EXISTING & ULTIMATE RUNWAY 23 END = 34:1 NPI
ULTIMATE RUNWAY 5 END = 34:1 NPI

NO.	DESCRIPTION	TOP ELEVATION	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION	
					EXISTING	ULTIMATE
27	TREE	1127.2	-	26.4'	NONE	TRIM / REMOVE
28	POLE	1123.2	-	20.0'	NONE	LIGHT / REMOVE
29	POLE	1126.1	-	20.2'	NONE	LIGHT / REMOVE
30	TREE	1140.2	-	34.5'	NONE	TRIM / REMOVE
31	POLE	1111.9	-	5.9'	NONE	LIGHT / REMOVE
32	HOUSE	1110.3	-	3.1'	NONE	LIGHT / REMOVE
33	TREE	1146.7	-	27.4'	NONE	TRIM / REMOVE
34	TREE	1159.4	-	41.5'	NONE	REMOVE
35	TREE	1131.4	-	7.1'	NONE	TRIM / REMOVE
36	TREES	1160.9	-	29.8'	NONE	TRIM / REMOVE
37	TREE*	1097.3	11.4'	15.7'	TRIM / REMOVE	SEE NOTE 1
38	SHED	1112.1	-	0.2'	NONE	LIGHT / REMOVE

* VIOLATIONS ARE IN THE EXISTING 34:1 APPROACH AND ULITIMATE TRANSITIONAL SURFACE.

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DR.	CHK.	DATE	DESCRIPTION
ES	DG	NOVEMBER 2011	FAA / TAD COMMENTS ADDRESSED

OUTER APPROACH SURFACE DRAWING

AIRPORT LAYOUT PLAN SET

WARREN COUNTY MEMORIAL AIRPORT

McMINNVILLE, WARREN COUNTY, TENNESSEE
T.A.D. NO. 89-555-0754-04

APPROVAL BLOCK

JOE HOWARD, CHAIRMAN
WARREN COUNTY AIRPORT COMMISSION

DATE

SHEET
C3

PROJECT NO:
10505-01

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LEGEND

DESCRIPTION	EXISTING	ULTIMATE
RUNWAY CENTERLINE		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (ROFA)		
RUNWAY PROTECTION ZONE (RPZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
TAXIWAY SAFETY AREA		
BUILDING RESTRICTION LINE (BRL)		
AIRPORT PAVEMENT		
AIRPORT BUILDINGS		
OTHER BUILDINGS		
AIRPORT PROPERTY LINE		
RAILROAD		
FENCE		
ROADS		

NOTES

1. ULTIMATE AND FUTURE BUILDINGS ELEVATIONS ARE ESTIMATES ONLY.
2. FINAL CONFIGURATION OF TERMINAL AREA FACILITIES MAY DIFFER.
3. ALL EXISTING, ULTIMATE, AND FUTURE FACILITIES ARE BELOW FAA FAR PART 77 SURFACES.
4. OBSTRUCTIONS TO PART 77 SHOWN ON ALP.
5. HATCHED APRON UNUSABLE FOR PARKING AIRCRAFT.

FACILITIES

EXISTING

#	FACILITY NAME	TOP ELEVATION
1	TERMINAL BLDG.	1058.14
2	MAINT. HANGAR	1067.73
3	T-HANGARS	1057.43
4	T-HANGARS	1056.99
5	T-HANGARS	1058.77
6	T-HANGARS	1058.00
7	T-HANGARS	1054.98
8	T-HANGARS	1055.92
9	T-HANGARS	1056.15

FACILITIES

ULTIMATE

#	FACILITY NAME	TOP ELEVATION
10	TERMINAL BLDG.	1057.1
11	CORP. HANGAR	1055.0
12	CORP. HANGAR	1057.0
13	CORP. HANGAR	1056.0
14	CORP. HANGAR	1054.0
15	CORP. HANGAR	1054.0
16	CORP. HANGAR	1052.0
17	CORP. HANGAR	1052.0
18	CORP. HANGAR	1054.0
19	CORP. HANGAR	1054.0
20	CORP. HANGAR	1052.0
21	CORP. HANGAR	1052.0
22	CORP. HANGAR	1068.0

ULTIMATE

#	FACILITY NAME	TOP ELEVATION
23	T-HANGAR	1055.0
24	CORP. HANGAR	1057.0
25	CORP. HANGAR	1057.0
26	CORP. HANGAR	1056.0
27	CORP. HANGAR	1056.0
28	CORP. HANGAR	1056.0
29	CORP. HANGAR	1056.0
30	CORP. HANGAR	1056.0
31	CORP. HANGAR	1050.0
32	CORP. HANGAR	1050.0
33	CORP. HANGAR	1050.0
34	CORP. HANGAR	1050.0

3° 51'

north

MAGNETIC DECLINATION: OCT. 2010
3° 51' W
CHANGE BY 0° 5' W PER YEAR

0 100' 200' 300'

SCALE: 1"=100'

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TERMINAL AREA PLAN

AIRPORT LAYOUT PLAN SET

WARREN COUNTY MEMORIAL AIRPORT

McMINNVILLE, WARREN COUNTY, TENNESSEE
T.A.D. NO. 89-555-0754-04

APPROVAL BLOCK

JOE HOWARD, CHAIRMAN
WARREN COUNTY AIRPORT COMMISSION

DATE

SHEET
C4

PROJECT NO:
10505-01

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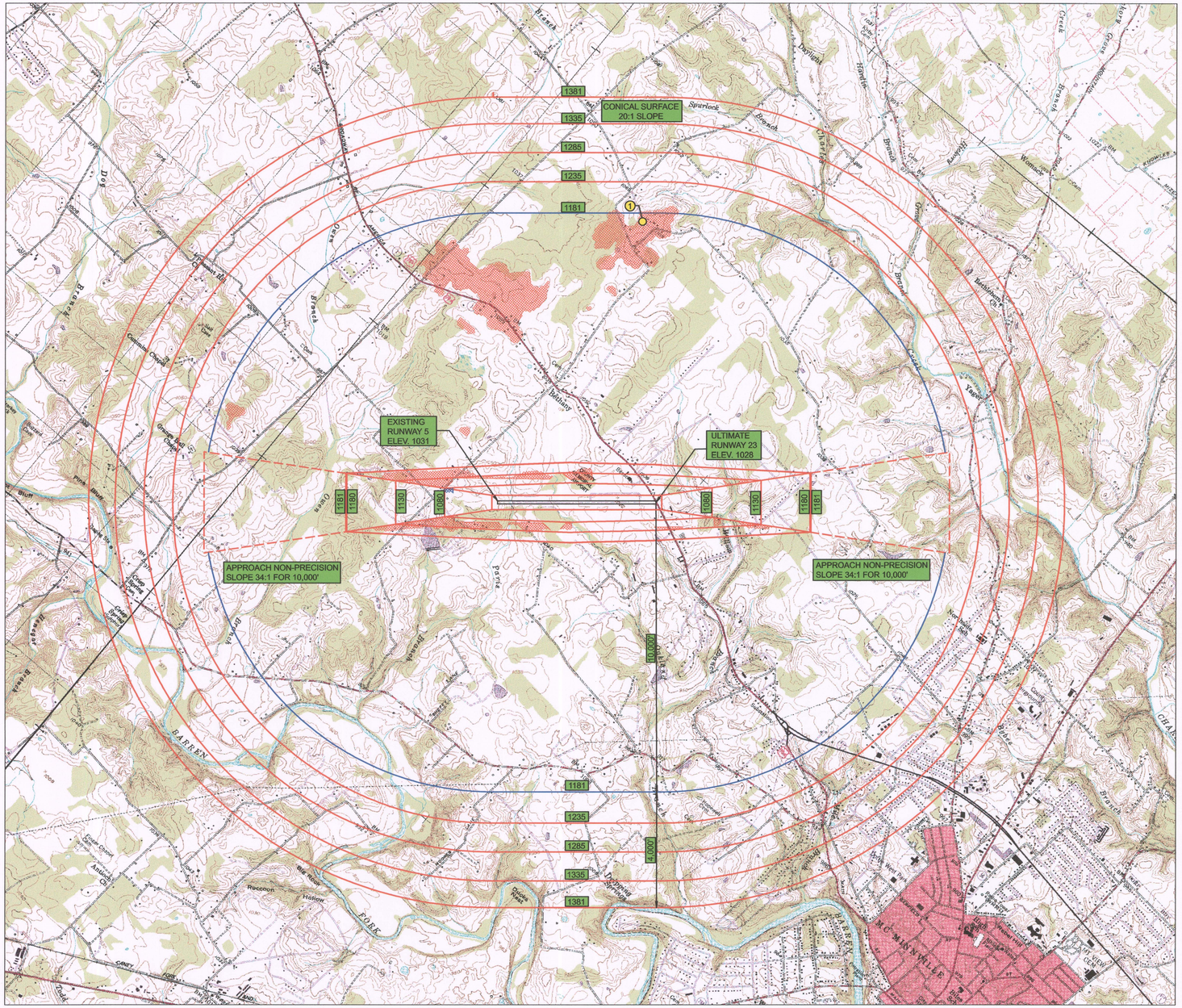
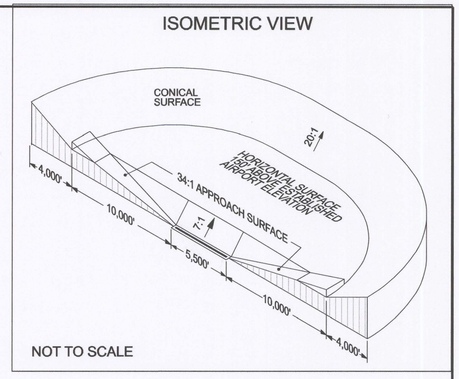


ISOMETRIC VIEW



NOT TO SCALE

LEGEND

DESCRIPTION	ULTIMATE
APPROACH SURFACE	
APPROACH SURFACE ABOVE HORIZONTAL	
TRANSITIONAL SURFACE	
PRIMARY SURFACE	
TREE OBSTRUCTION*	
TERRAIN OBSTRUCTION	
TOWER	

* ASSUMES 100 FT. TREE

OBSTRUCTION

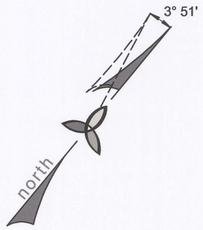
PART 77 SURFACE: HORIZONTAL

PART 77 SLOPE: 34 : 1

#	DESCRIPTION	TOP ELEVATION	PENETRATION	PROPOSED ACTION
1	TOWER	1245	64'	LIGHT

NOTES

1. GRID BASE, U.S.G.S. TOPOGRAPHICAL MAPS. 10' CONTOUR INTERVAL.
2. SEE ALP AND APPROACH PLAN FOR OBSTRUCTIONS WITHIN PRIMARY SURFACE, TRANSITIONAL SURFACES AND APPROACH SURFACES.
3. GRAPHIC SHOWING TREE OBSTRUCTIONS (ASSUMING 100 FT. TREE HEIGHT) ARE IDENTIFYING AREAS BEYOND THE LIMITS OF THE AERIAL SURVEY AND INSIDE THE EXISTING AIRPORT AIRSPACE.
4. ULTIMATE RUNWAY END ELEVATION SHOWN APPROXIMATE, FINAL ELEVATION WILL BE DETERMINED DURING DESIGN.



MAGNETIC DECLINATION: OCT. 2010
3° 51' W
CHANGE BY 0° 5' W PER YEAR

0 2000' 4000' 6000'

SCALE: 1"=2000'

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AIRSPACE DRAWING

AIRPORT LAYOUT PLAN SET

WARREN COUNTY MEMORIAL AIRPORT

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WARREN COUNTY AIRPORT COMMISSION

SHEET

C5

PROJECT NO: 10505-01

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