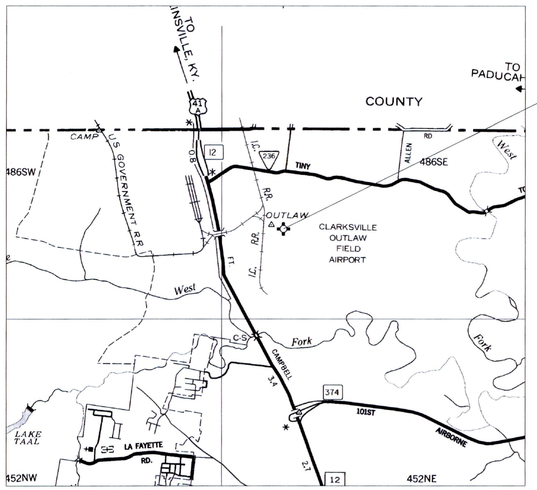
CLARKSVILLE-MONTGOMERY COUNTY AIRPORT

CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

AIRPORT LAYOUT PLAN

SEPTEMBER 2016

TDOT AERONAUTICS DIVISION PROJECT NUMBER 63-555-0742-04



CLARKSVILLE-MONTGOMERY COUNTY AIRPORT

VICINITY MAP

STATE OF TENNESSEE

BILL HASLAM
GOVERNOR

TENNESSEE DEPARTMENT OF TRANSPORTATION

JOHN SCHROER
COMMISSIONER

TDOT - DIVISION OF AERONAUTICS

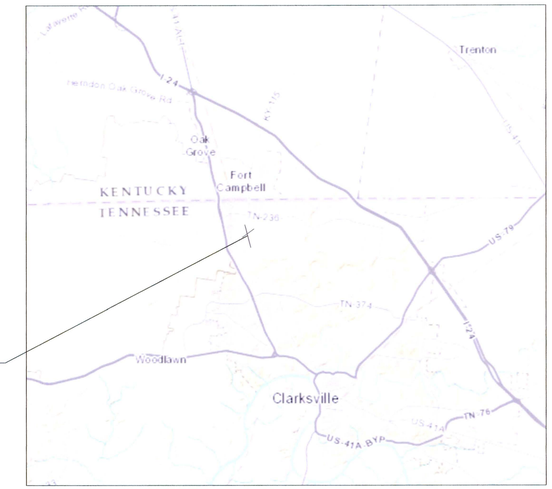
WILLIAM ORELLANA
DIRECTOR

TOM BURGESS
CHIEF ENGINEER

BRIAN CALDWELL
CHIEF PLANNER

CLARKSVILLE - MONTGOMERY COUNTY AIRPORT

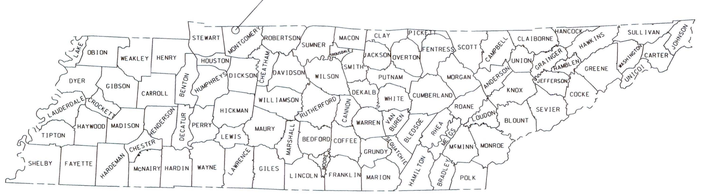
WILLIAM S. STUARD
CHAIRMAN



CLARKSVILLE-MONTGOMERY COUNTY AIRPORT

LOCATION MAP

CLARKSVILLE-MONTGOMERY COUNTY AIRPORT



STATE OUTLINE WITH COUNTIES

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CHA
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CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE

TITLE SHEET

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN

OBSTRUCTIONS				
Part 77 Surface: Visual Approach				
Part 77 Slope: 20 : 1				
#	Description	Top Elevation	Existing 20:1 Penetration	Proposed Action
1	TREE	573.00	7.07	REMOVE
2	TREE	575.00	3.72	REMOVE
3	TREE	603.00	28.97	REMOVE
4	RAILROAD	554.00	-21.81	LOWER RR
5	TREE	NONE	NONE	NONE
6	TREE	NONE	NONE	NONE
7	TREE	561.00	-22.02	NONE
8	TREE	NONE	NONE	NONE
9	TREE	613.00	27.43	REMOVE
10	TREE	605.00	18.11	REMOVE
11	TREE	NONE	NONE	NONE
12	TREE	NONE	NONE	NONE
13	TREE	559.00	-29.75	NONE
14	TREE	NONE	NONE	NONE
15	TREE	NONE	NONE	NONE
16	TREE	563.00	-29.00	NONE
17	TREE	558.00	-42.83	NONE
18	TREE	NONE	NONE	NONE
19	STEEPLE	578.00	-22.50	NONE
20	TREE	581.00	-19.56	NONE
21	TREE	574.00	-26.67	NONE
22	TREE	558.00	-42.83	NONE
23	TREE	563.00	-37.00	NONE
24	TREE	NONE	NONE	NONE
25	TREE	577.00	-30.20	NONE
26	TREE	595.00	-14.87	NONE
27	TREE	597.00	-13.84	NONE
28	TREE	600.00	-22.78	NONE
29	TREE	621.00	-1.50	REMOVE *
30	TREE	625.00	0.47	REMOVE
31	TREE	605.00	-21.43	NONE
32	TREE	615.00	-14.61	NONE
33	TREE	591.00	-40.14	NONE
34	TREE	573.00	-73.74	NONE

OBSTRUCTIONS				
Part 77 Surface: Visual Approach				
Part 77 Slope: 20 : 1				
#	Description	Top Elevation	Existing 20:1 Penetration	Proposed Action
48	TREE	572.00	14.67	REMOVE
49	TREE	565.00	1.56	REMOVE
50	TREE	602.00	30.88	REMOVE
51	TREE	514.00	-37.52	NONE
52	TREE	544.00	-35.86	NONE
53	TREE	569.00	-11.84	NONE
54	TREE	571.00	-18.46	NONE
55	TREE	588.00	-7.91	NONE
56	TREE	577.00	-19.61	NONE
57	TREE	596.00	-3.97	REMOVE *
58	TREE	575.00	-25.98	NONE
59	TREE	559.00	-43.51	NONE
60	TREE	571.00	-35.58	NONE
61	TREE	578.00	-28.97	NONE
62	TREE	603.00	-7.04	REMOVE *
63	TREE	596.00	-16.43	NONE
64	TREE	578.00	-35.69	NONE
65	TREE	NONE	NONE	NONE
66	TREE	617.00	-0.41	REMOVE *
67	TREE	621.00	1.60	REMOVE
68	TREE	615.00	-6.50	NONE
69	TREE	582.00	-44.89	NONE
70	TREE	597.00	-30.04	NONE
71	TREE	635.00	7.94	REMOVE
72	TREE	617.00	-10.28	NONE
73	HOUSE	559.00	-69.05	NONE
74	TREE	626.00	-2.09	REMOVE *
75	TREE	631.00	-2.76	REMOVE *
76	TREE	616.00	-18.80	NONE
77	TREE	635.00	-0.95	REMOVE *
78	TREE	619.00	-17.29	NONE
79	TREE	614.00	-22.98	NONE
80	TREE	596.00	-41.95	NONE

FOR OBJECTS THAT ARE NOT OBSTRUCTIONS TO THE APPROACH SURFACE PLANE BUT LOCATED UNDERNEATH THE APPROACH SURFACE PLANE, SEE INNER APPROACH SURFACE DRAWINGS.

FACILITIES					
#	Facility Name	Top Elevation	#	Facility Name	Top Elevation
1	Terminal Building	590.0	9	Corporate Hangar	558.0
2	Fuel Farm	553.7	10	Corporate Hangar	559.4
3	Electrical Vault	551.8	11	Corporate Hangar	559.3
4	Hangar	559.2	12	Corporate Hangar	563.1
5	T-Hangar	553.9	13	Group Hangar	560.6
6	Maintenance Shed	553.2	14	T-Hangar	553.3
7	Maintenance Shed	542.8	15	Park Shelter	539.1
8	T-Hangar	558.8	16	Park Shelter	531.0
			17	T-Hanger	553.0

OBSTRUCTIONS				
Part 77 Surface: Non-Precision Approach				
Part 77 Slope: 34 : 1				
#	Description	Top Elevation	Existing 34:1 Penetration	Proposed Action
50	POLE	572.30	6.96	REMOVE
51	POLE	584.10	16.84	REMOVE
52	POLE	577.90	5.28	REMOVE
53	POLE	584.10	8.74	REMOVE
54	POLE	582.30	5.64	REMOVE
55	POLE	582.50	1.19	REMOVE
56	POLE	591.70	2.84	REMOVE
57	TREE	582.90	-6.34	NONE
58	TREE	591.90	1.16	REMOVE
59	TREE	607.60	8.42	REMOVE
60	TREE	627.00	27.38	REMOVE
61	TREE	631.50	29.28	REMOVE
62	TREE	622.90	18.73	REMOVE

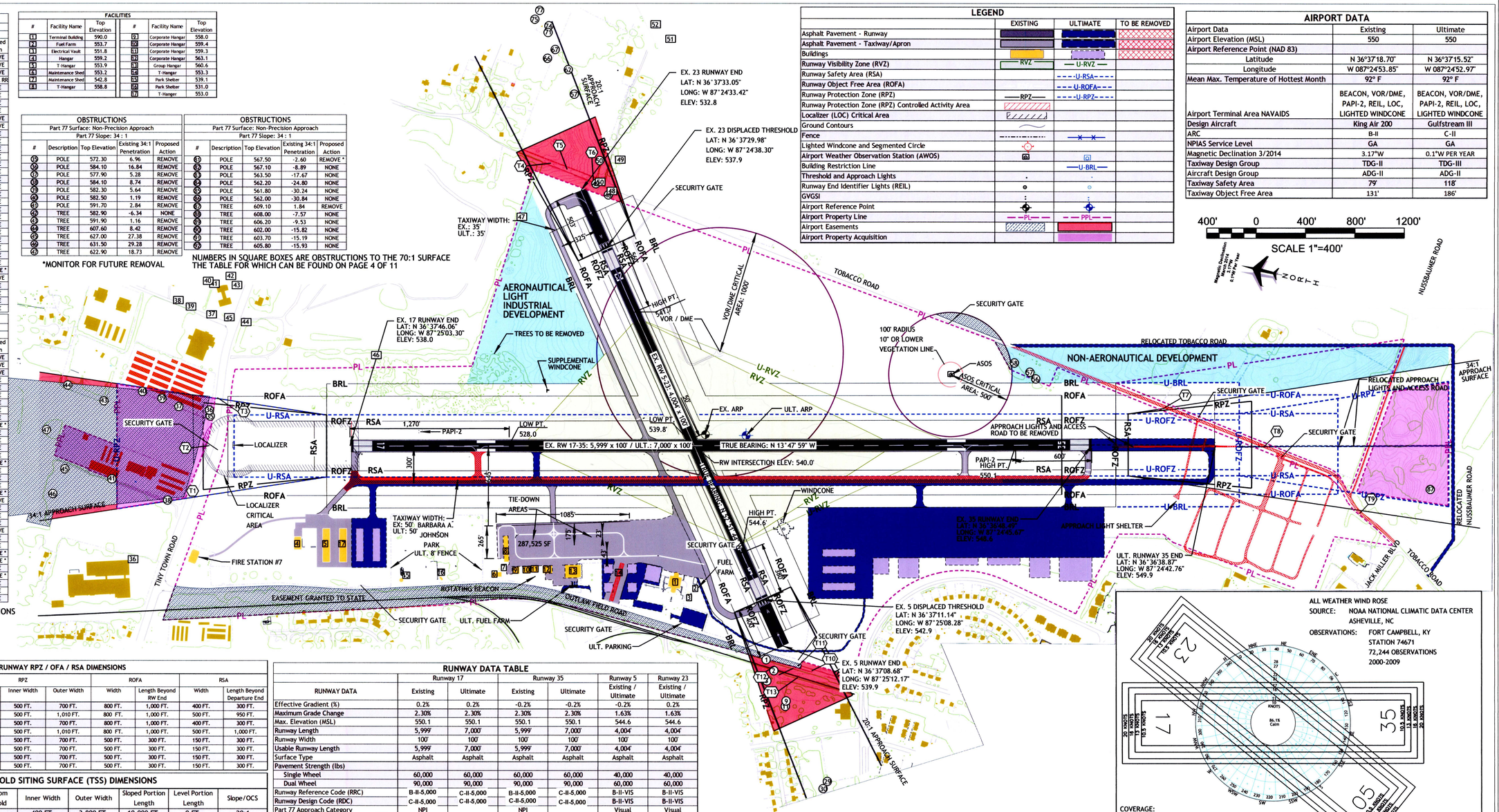
*MONITOR FOR FUTURE REMOVAL

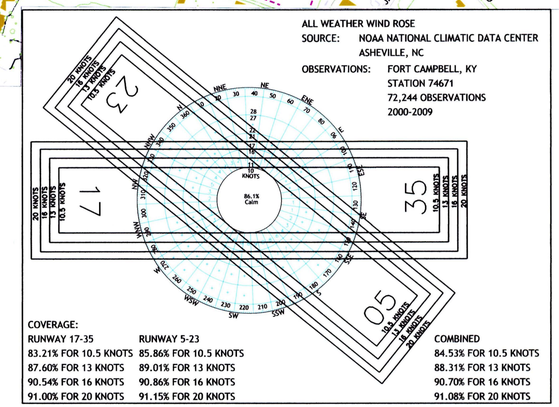
OBSTRUCTIONS				
Part 77 Surface: Non-Precision Approach				
Part 77 Slope: 34 : 1				
#	Description	Top Elevation	Existing 34:1 Penetration	Proposed Action
63	POLE	567.50	-2.60	REMOVE *
64	POLE	567.10	-8.89	NONE
65	POLE	563.50	-17.67	NONE
66	POLE	562.20	-24.80	NONE
67	POLE	561.80	-30.24	NONE
68	POLE	562.00	-30.84	NONE
69	TREE	609.10	1.84	REMOVE
70	TREE	608.00	-7.57	NONE
71	TREE	606.20	-9.53	NONE
72	TREE	602.00	-15.82	NONE
73	TREE	603.70	-15.19	NONE
74	TREE	605.80	-15.93	NONE

NUMBERS IN SQUARE BOXES ARE OBSTRUCTIONS TO THE 70:1 SURFACE THE TABLE FOR WHICH CAN BE FOUND ON PAGE 4 OF 11

LEGEND			
	EXISTING	ULTIMATE	TO BE REMOVED
Asphalt Pavement - Runway			
Asphalt Pavement - Taxiway/Apron			
Buildings			
Runway Visibility Zone (RVZ)	RVZ	U-RVZ	
Runway Safety Area (RSA)		U-RSA	
Runway Object Free Area (ROFA)		U-ROFA	
Runway Protection Zone (RPZ)	RPZ	U-RPZ	
Runway Protection Zone (RPZ) Controlled Activity Area			
Localizer (LOC) Critical Area			
Ground Contours			
Fence			
Lighted Windcone and Segmented Circle			
Airport Weather Observation Station (AWOS)			
Building Restriction Line		U-BRL	
Threshold and Approach Lights			
Runway End Identifier Lights (REIL)			
GVGSI			
Airport Reference Point			
Airport Property Line	PL	PPL	
Airport Easements			
Airport Property Acquisition			

AIRPORT DATA		
Airport Data	Existing	Ultimate
Airport Elevation (MSL)	550	550
Airport Reference Point (NAD 83)		
Latitude	N 36°37'18.70"	N 36°37'15.52"
Longitude	W 087°24'53.85"	W 087°24'52.97"
Mean Max. Temperature of Hottest Month	92° F	92° F
Airport Terminal Area NAVAIDS	BEACON, VOR/DME, PAPI-2, REIL, LOC, LIGHTED WINDCONE	BEACON, VOR/DME, PAPI-2, REIL, LOC, LIGHTED WINDCONE
Design Aircraft	King Air 200	Gulfstream III
ARC	B-II	C-II
NPIAS Service Level	GA	GA
Magnetic Declination 3/2014	3.17°W	0.1°W PER YEAR
Taxiway Design Group	TDG-II	TDG-III
Aircraft Design Group	ADG-II	ADG-II
Taxiway Safety Area	79'	118'
Taxiway Object Free Area	131'	186'





COVERAGE:

RUNWAY 17-35	RUNWAY 5-23	COMBINED
83.21% FOR 10.5 KNOTS	85.86% FOR 10.5 KNOTS	84.53% FOR 10.5 KNOTS
87.60% FOR 13 KNOTS	89.01% FOR 13 KNOTS	88.31% FOR 13 KNOTS
90.54% FOR 16 KNOTS	90.86% FOR 16 KNOTS	90.70% FOR 16 KNOTS
91.00% FOR 20 KNOTS	91.15% FOR 20 KNOTS	91.08% FOR 20 KNOTS

RUNWAY RPZ / OFA / RSA DIMENSIONS								
R/W		RPZ			ROFA		RSA	
		Length	Inner Width	Outer Width	Width	Length Beyond RW End	Width	Length Beyond Departure End
17	Existing	1,000 FT.	500 FT.	700 FT.	800 FT.	1,000 FT.	400 FT.	300 FT.
17	Ultimate	1,700 FT.	500 FT.	1,010 FT.	800 FT.	1,000 FT.	500 FT.	950 FT.
35	Existing	1,000 FT.	500 FT.	700 FT.	800 FT.	1,000 FT.	400 FT.	300 FT.
35	Ultimate	1,700 FT.	500 FT.	1,010 FT.	800 FT.	1,000 FT.	500 FT.	1,000 FT.
5	Existing	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.
5	Ultimate	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.
23	Existing	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.
23	Ultimate	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.

THRESHOLD SITING SURFACE (TSS) DIMENSIONS							
RW END		Dist. From Threshold	Inner Width	Outer Width	Sloped Portion Length	Level Portion Length	Slope/OCS
17	Existing	0 FT.	400 FT.	3,800 FT.	10,000 FT.	0 FT.	20:1
17	Ultimate	0 FT.	400 FT.	3,800 FT.	10,000 FT.	0 FT.	20:1
35	Existing	0 FT.	400 FT.	3,800 FT.	10,000 FT.	0 FT.	20:1
35	Ultimate	0 FT.	800 FT.	3,800 FT.	10,000 FT.	0 FT.	20:1
5	Existing	0 FT.	250 FT.	700 FT.	2,250 FT.	2,750 FT.	20:1
5	Ultimate	0 FT.	250 FT.	700 FT.	2,250 FT.	2,750 FT.	20:1
23	Existing	0 FT.	250 FT.	700 FT.	2,250 FT.	2,750 FT.	20:1
23	Ultimate	0 FT.	250 FT.	700 FT.	2,250 FT.	2,750 FT.	20:1

TRAVERSE WAY				
#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Proposed Action
T1	568.10	570.18	2.08	NO ACTION REQ'D
T2	565.50	564.79	-0.71	ADD LOW CLR. SIGN
T3	561.80	563.76	1.96	NO ACTION REQ'D
T4	528.60	535.45	6.85	NO ACTION REQ'D
T5	534.00	531.29	-2.71	CLOSE ROADWAY
T6	543.55	527.95	-15.60	CLOSE ROADWAY
T7	550.00	560.04	10.04	NO ACTION REQ'D
T8	538.15	584.39	46.24	NO ACTION REQ'D
T9	520.55	606.54	85.99	NO ACTION REQ'D
T10	549.15	545.37	-3.78	LOWER ROADWAY
T11	550.20	541.98	-8.22	LOWER ROADWAY
T12	551.45	538.80	-12.65	LOWER ROADWAY
T13	554.30	544.10	-10.2	LOWER RAILROAD

RUNWAY DATA TABLE						
	Runway 17		Runway 35		Runway 5	Runway 23
RUNWAY DATA	Existing	Ultimate	Existing	Ultimate	Existing / Ultimate	Existing / Ultimate
Effective Gradient (%)	0.2%	0.2%	-0.2%	-0.2%	-0.2%	0.2%
Maximum Grade Change	2.30%	2.30%	2.30%	2.30%	1.63%	1.63%
Max. Elevation (MSL)	550.1	550.1	550.1	550.1	544.6	544.6
Runway Length	5,999'	7,000'	5,999'	7,000'	4,004'	4,004'
Runway Width	100'	100'	100'	100'	100'	100'
Usable Runway Length	5,999'	7,000'	5,999'	7,000'	4,004'	4,004'
Surface Type	Asphalt	Asphalt	Asphalt	Asphalt	Asphalt	Asphalt
Pavement Strength (lbs)						
Single Wheel	60,000	60,000	60,000	60,000	40,000	40,000
Dual Wheel	90,000	90,000	90,000	90,000	60,000	60,000
Runway Reference Code (RRC)	B-II-5,000	C-II-5,000	B-II-5,000	C-II-5,000	B-II-VIS	B-II-VIS
Runway Design Code (RDC)	C-II-5,000	C-II-5,000	C-II-5,000	C-II-5,000	B-II-VIS	B-II-VIS
Part 77 Approach Category	NPI		NPI		Visual	Visual
Instrument Approach Aids	None	None	Localizer	Localizer	None	None
Approach Surface Slope	34:1	34:1	34:1	34:1	20:1	20:1
Approach Visibility Minimums	>1 MILE	>1 MILE	>1 MILE	>1 MILE	Visual	Visual
Visual Approach Aids	REILs, PAPI-2	REILs, PAPI-2	MALS, PAPI-2	MALS, PAPI-2	None	None
Runway Lighting	MIRLs	MIRLs	MIRLs	MIRLs	None	None
Taxiway Lighting	MITLs	MITLs	MITLs	MITLs	None	None
Runway Marking	Non-Precision	Non-Precision	Non-Precision	Non-Precision	Visual	Visual
Critical Aircraft	King Air 200	Gulfstream III	King Air 200	Gulfstream III	King Air 200	King Air 200
TDZ Elevation (MSL)	541.8	541.8	550.1	550.1	544.6	543.8
Runway Threshold Crossing Height	50'		50'			

Airport Runway Distances					
RW		TORA	TODA	LDA	ASDA
17	Existing	5,999 FT.	5,999 FT.	5,999 FT.	5,999 FT.
17	Ultimate	5,999 FT.	5,999 FT.	5,999 FT.	5,999 FT.
35	Existing	5,999 FT.	5,999 FT.	5,999 FT.	5,999 FT.
35	Ultimate	5,999 FT.	5,999 FT.	5,949 FT.	5,949 FT.

State of Tennessee Department of Transportation

CONDITIONALLY APPROVED

STATE BLOCK GRANT PROGRAM

J. Tom Burgess, P.E. Date 11/13/2017

TN DEPT. OF TRANSPORTATION

Subject to Comments in Approval Letter

CONSTRUCTION NOTICE REQUIREMENT

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

The approval of this Airport Layout Plan (ALP) represents acceptance of the general location of future facilities depicted. During the preliminary design phase, the airport owner is required to resubmit for approval the final locations, heights, and exterior finish of the structures. The concern is obstructions, impact on electronic aids, or adverse effects on controller view of aircraft approach and ground movement areas which could adversely affect safety, efficiency, or utility of the airport.

NOTES:
1. ALL BUILDINGS IN RPZ TO BE REMOVED.
2. NO OBSTACLE FREE ZONE PENETRATIONS PENETRATIONS ON RUNWAY 5-35 PER OPERTATIONS BY SMALL AIRCRAFT WITH APPROACH SPEEDS OF LESS THAN 50 KNOTS.
3. PROPOSED HANGARS INCLUDE 75' SEPARATION PER AC 150/5300-13A
4. ALL GVGSI SITING MUST BE IN ACCORDANCE WITH FAA GUIDANCE.
5. REFER TO THE INNER APPROACH SURFACE DRAWING FOR CLOSE-IN OBSTRUCTIONS.
6. REFER TO THE AIRSPACE DRAWING FOR OBSTRUCTIONS WITHIN THE HORIZONTAL & CONICAL SURFACES.
7. ALL COORDINATES ARE BASED ON NAD 83 / NAVD 88.
8. THRESHOLD SITING SURFACES (TSS) NOT DEPICTED FOR CLARITY. DIMENSIONS TABULATED. TREES VIOLATE EXISTING TSS FOR RUNWAY 5/23. POLES VIOLATE ULTIMATE TSS FOR RUNWAY 35. ALL TREES AND POLES IN EXISTING AND ULTIMATE TSS TO BE REMOVED.

APPROVAL:

WILLIAM S. STUARD, JR. — 9-30-16 DATE

CLARKSVILLE-MONTGOMERY COUNTY AIRPORT AUTHORITY

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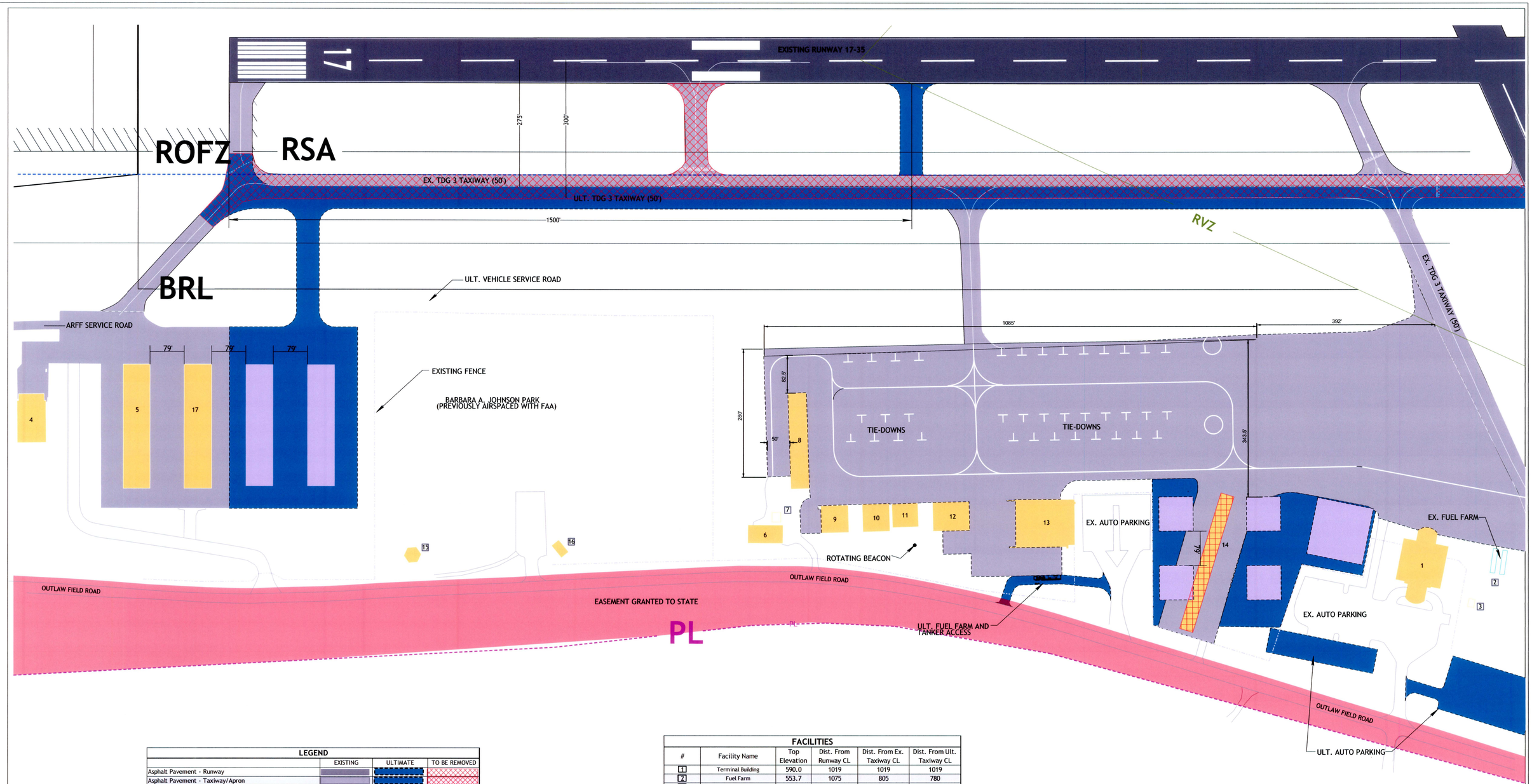
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE
AIRPORT LAYOUT DRAWING

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



LEGEND	EXISTING	ULTIMATE	TO BE REMOVED
Asphalt Pavement - Runway			
Asphalt Pavement - Taxiway/Apron			
Buildings			
Runway Visibility Zone (RVZ)	RVZ		
Runway Safety Area (RSA)	RSA		
Runway Object Free Area (ROFA)	ROFA		
Runway Protection Zone (RPZ)	RPZ		
Localizer (LOC) Critical Area			
Ground Contours			
Fence			
Windcone			
Runway Edge Lights			
Runway End Identifier Lights (REIL)			
Airport Property Line	PL	PPL	
Airport Easements			
Building Resriction Line	BRL	U-BRL	

FACILITIES

#	Facility Name	Top Elevation	Dist. From Runway CL	Dist. From Ex. Taxiway CL	Dist. From Ult. Taxiway CL
1	Terminal Building	590.0	1019	1019	1019
2	Fuel Farm	553.7	1075	805	780
3	Electrical Vault	551.8	1172	902	877
4	Hangar	559.2	N/A	N/A	N/A
5	T-Hangar	553.9	N/A	N/A	N/A
6	Maintenance Shed	553.2	1010	1642	715
7	Maintenance Shed	542.8	982	715	687
8	T-Hangar	558.8	720	450	425
9	Corporate Hangar	558.0	968	698	673
10	Corporate Hangar	559.4	959	689	664
11	Corporate Hangar	559.3	962	692	667
12	Corporate Hangar	563.1	964	694	669
13	Group Hangar	560.6	957	687	662
14	T-Hangar	553.3	942	672	647
15	Park Shelter	539.1	1062	792	767
16	Park Shelter	531.0	1048	778	753
17	T-Hanger	553.0	1048	778	753

Magnetic Declination
March 2014
3.17°W
0.1°W Per Year

NORTH

100' 0 100' 200' 300'

SCALE 1"=100'

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200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

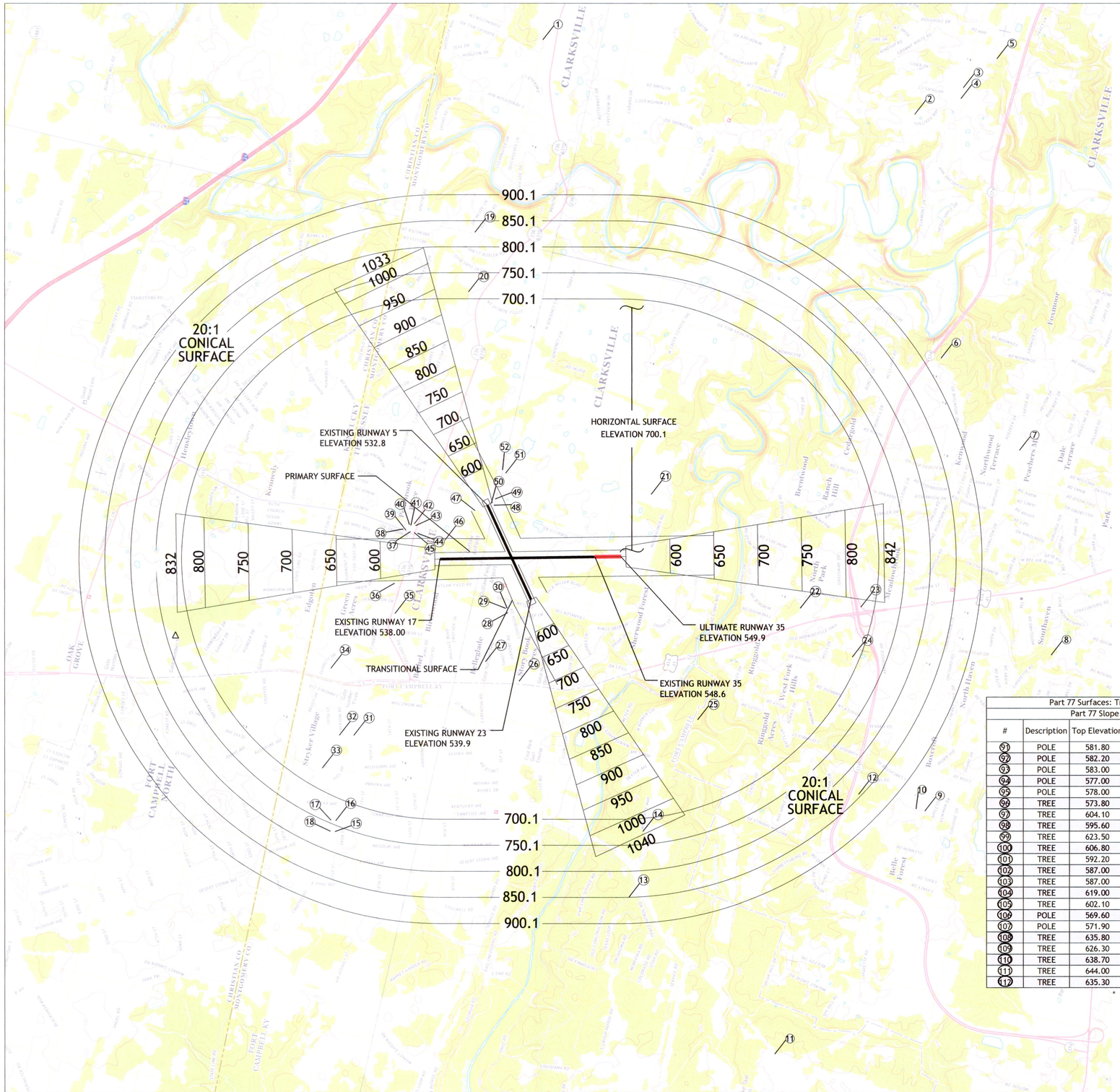
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE

TERMINAL AREA DRAWING

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



2000' 0 2000' 4000' 6000'

SCALE 1"=2000'

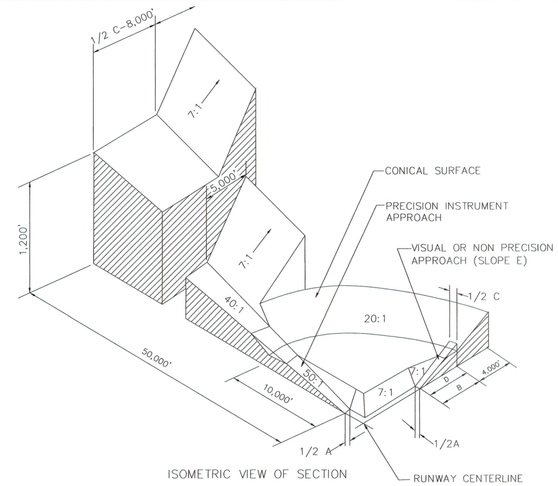
Magnetic Declination
March 2014
3.17°W
0.1°W Per Year

NORTH

NOTES:
1. REFER TO THE AIRPORT LAYOUT PLAN AND INNER APPROACH SURFACE DRAWINGS FOR CLOSE-IN OBSTRUCTIONS.
2. REFER TO THE CITY OF CLARKSVILLE MUNICIPAL CODE FOR BUILDING HEIGHT RESTRICTIONS.
3. DATA FROM THE NATIONAL GEODETIC SURVEY, 09-10-2009

OBSTRUCTION DATA

#	OBSTRUCTION	LATITUDE	LONGITUDE	ELEVATION (FEET AGL)	ELEVATION (FEET MSL)	#	OBSTRUCTION	LATITUDE	LONGITUDE	ELEVATION (FEET AGL)	ELEVATION (FEET MSL)
1	TOWER	36 38 05.57N	87 19 03.88W	259	755	27	TOWER	36 37 20.26N	87 25 45.87W	112	632
2	TOWER	36 35 26.90N	87 20 48.20W	350	899	28	T-L TWR	36 37 16.19N	87 25 20.68W	38	576
3	TOWER	36 35 11.00N	87 20 31.00W	293	858	29	T-L TWR	36 37 17.29N	87 25 19.00W	31	571
4	TOWER	36 35 11.00N	87 20 36.00W	288	846	30	T-L TWR	36 37 16.85N	87 25 18.75W	30	569
5	TOWER	36 35 01.10N	87 20 14.00W	185	747	31	TOWER	36 38 03.00N	87 26 33.43W	112	652
6	TOWER	36 34 56.19N	87 22 37.27W	138	690	32	TOWER	36 38 08.48N	87 26 34.99W	91	626
7	T-L TWR	36 34 19.06N	87 23 11.23W	44	639	33	BLDG	36 38 12.00N	87 26 52.00W	74	611
8	TOWER	36 33 50.00N	87 24 42.00W	205	747	34	TOWER	36 38 17.25N	87 26 05.06W	101	655
9	TANK	36 34 23.61N	87 26 06.84W	186	786	35	TANK	36 37 57.89N	87 25 33.49W	138	699
10	TANK	36 34 27.04N	87 26 06.97W	175	773	36	T-L TWR	36 38 00.82N	87 25 19.27W	33	586
11	T-L TWR	36 34 58.67N	87 28 14.89W	42	609	37	T-L TWR	36 37 59.35N	87 24 53.93W	42	592
12	TOWER	36 34 49.60N	87 26 06.50W	160	723	38	T-L TWR	36 38 02.29N	87 24 53.43W	39	591
13	T-L TWR	36 36 07.02N	87 27 18.45W	78	609	39	T-L TWR	36 38 01.18N	87 24 53.63W	40	592
14	POLE	36 36 07.04N	87 26 46.69W	35	584	40	T-L TWR	36 38 00.32N	87 24 50.87W	31	582
15	POLE	36 38 01.81N	87 27 19.73W	116	664	41	T-L TWR	36 37 59.81N	87 24 50.94W	39	591
16	POLE	36 38 02.50N	87 27 14.62W	124	664	42	T-L TWR	36 37 58.71N	87 24 49.89W	23	577
17	POLE	36 38 04.26N	87 27 14.97W	125	665	43	POLE	36 37 58.04N	87 24 50.58W	31	584
18	POLE	36 38 03.56N	87 27 20.08W	118	665	44	T-L TWR	36 37 56.61N	87 24 53.87W	41	589
19	BLDG	36 38 01.06N	87 22 29.53W	29	595	46	FENCE	36 37 45.90N	87 24 53.95W	4	549
20	TOWER	36 37 58.25N	87 22 57.62W	147	703	47	FENCE	36 37 37.13N	87 24 37.42W	9	527
21	ELEVATOR	36 36 32.96N	87 24 10.88W	54	596	48	T-L TWR	36 37 30.48N	87 24 32.74W	31	572
22	TOWER	36 35 27.22N	87 24 47.19W	174	663	49	T-L TWR	36 37 30.71N	87 24 29.78W	42	587
23	T-L TWR	36 35 05.10N	87 24 40.22W	89	631	50	CATENARY	36 37 31.75N	87 24 32.07W	26	565
24	POLE	36 35 03.91N	87 25 04.10W	35	588	51	BLDG	36 37 28.99N	87 24 16.74W	20	570
25	T-L TWR	36 35 56.18N	87 25 49.33W	64	584	52	ELEVATOR	36 37 30.35N	87 24 15.84W	82	636



ISOMETRIC VIEW OF SECTION

DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B: C	B: D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	400	400	400	800	800	1,000
B	RADIUS OF HORIZONTAL SURFACE	10,000	10,000	10,000	10,000	10,000	10,000
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B: C	B: D	
C	APPROACH SURFACE WIDTH AT END	3,800	3,800	3,800	3,800	3,800	16,000
D	APPROACH SURFACE LENGTH	10,000	10,000	10,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A – UTILITY RUNWAYS
B – RUNWAYS LARGER THAN UTILITY
C – VISIBILITY MINIMUMS GREATER THAN 3/4 MILES
D – VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* – PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 Approach Surface FOR INNER 10,000 FEET AND 40:1 Approach Surface FOR AN ADDITIONAL 40,000 FEET

DENOTES RUNWAY 17-35 DIMENSIONAL STANDARDS

DENOTES RUNWAY 05-23 DIMENSIONAL STANDARDS

Part 77 Surfaces: Transitional
Part 77 Slope: 7:1

#	Description	Top Elevation	Existing Penetration	Proposed Action
91	POLE	581.80	20.63	LIGHT
92	POLE	582.20	16.74	LIGHT
93	POLE	583.00	5.97	LIGHT
94	POLE	577.00	11.55	LIGHT
95	POLE	578.00	26.31	LIGHT
96	TREE	573.80	37.43	LIGHT
97	TREE	604.10	18.00	REMOVE
98	TREE	595.60	10.50	REMOVE
99	TREE	623.50	14.26	REMOVE
100	TREE	606.80	66.86	REMOVE
101	TREE	592.20	38.26	REMOVE
102	TREE	587.00	10.88	REMOVE
103	TREE	587.00	10.91	REMOVE
104	TREE	619.00	9.27	REMOVE
105	TREE	602.10	3.21	REMOVE
106	POLE	569.60	1.70	REMOVE
107	POLE	571.90	5.57	REMOVE
108	TREE	635.80	19.90	REMOVE
109	TREE	626.30	30.46	REMOVE
110	TREE	638.70	26.71	REMOVE
111	TREE	644.00	34.87	REMOVE
112	TREE	635.30	19.70	REMOVE

* OBSTRUCTIONS SHOWN ON PAGE 2 OF 11

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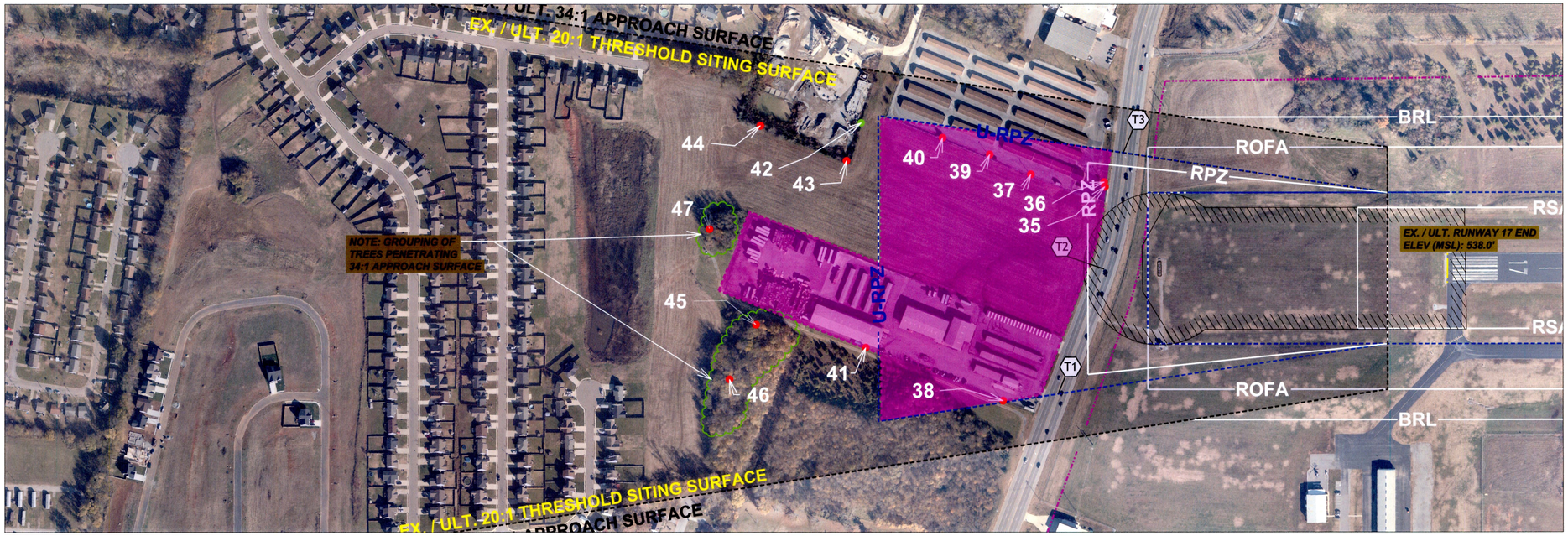
CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE
AIRPORT AIRSPACE DRAWING

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



Magnetic Declination March 2014 3° 7'W 0.1°W Per Year

TRUE NORTH

PL EXISTING PROPERTY LINE

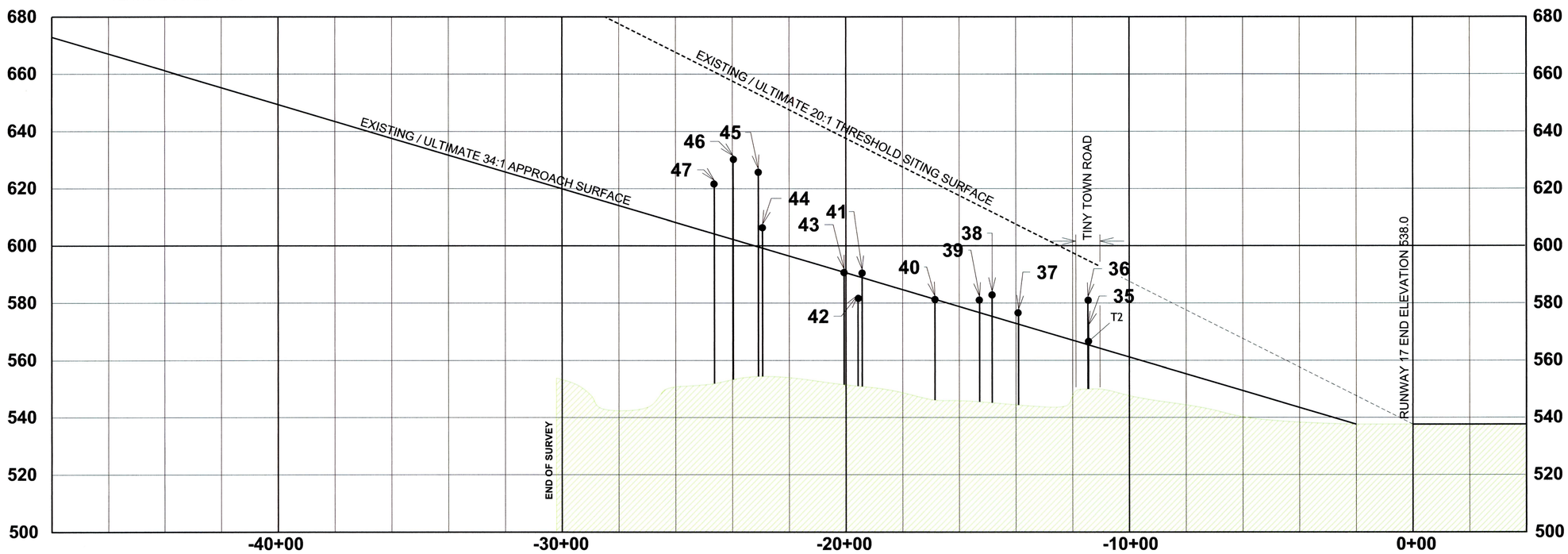
PPL PROPOSED PROPERTY LINE

200' 0 200' 400' 600'

HORIZONTAL SCALE 1"=200'
VERTICAL SCALE 1"=20'

OBSTRUCTIONS				
Part 77 Surface: Non-Precision Approach				
Part 77 Slope: 34 : 1				
#	Description	Top Elevation	Existing 34:1 Penetration	Proposed Action
35	POLE	572.30	6.96	REMOVE
36	POLE	584.10	16.84	REMOVE
37	POLE	577.90	5.28	REMOVE
38	POLE	584.10	8.74	REMOVE
39	POLE	582.30	5.64	REMOVE
40	POLE	582.50	1.19	REMOVE
41	POLE	591.70	2.84	REMOVE
42	TREE	582.90	-6.34	NONE
43	TREE	591.90	1.16	REMOVE
44	TREE	607.60	8.42	REMOVE
45	TREE	627.00	27.38	REMOVE
46	TREE	631.50	29.28	REMOVE
47	TREE	622.90	18.73	REMOVE

NOTES:
1. DATE OF OBSTRUCTION SURVEY: 09 / 10 / 2009
2. SURVEY ACCURACY:NAD83 - 5CM
   NAVD88 - 25CM
3. REFER TO THE AIRPORT AIRSPACE DRAWING FOR OBSTRUCTIONS IN HORIZONTAL AND CONICAL SURFACES.
4. CLEARANCES OVER TRAVERSE WAYS ARE 15' FOR PUBLIC ROADS AND 23' FOR RAILROADS.



TRAVERSE WAY				
#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Proposed Action
T1	568.10	570.18	2.08	NO ACTION REQD
T2	565.50	564.79	-0.71	ADD LOW CLR. SIGN
T3	561.80	563.76	1.96	NO ACTION REQD
T4	528.60	535.45	6.85	NO ACTION REQD
T5	534.00	531.29	-2.71	CLOSE ROADWAY
T6	543.55	527.95	-15.60	CLOSE ROADWAY
T7	550.00	560.04	10.04	NO ACTION REQD
T8	538.15	584.39	46.24	NO ACTION REQD
T9	520.55	606.54	85.99	NO ACTION REQD
T10	549.15	545.37	-3.78	LOWER ROADWAY
T11	550.20	541.98	-8.22	LOWER ROADWAY
T12	551.45	538.80	-12.65	LOWER ROADWAY
T13	554.30	544.10	-10.2	LOWER RAILROAD

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CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

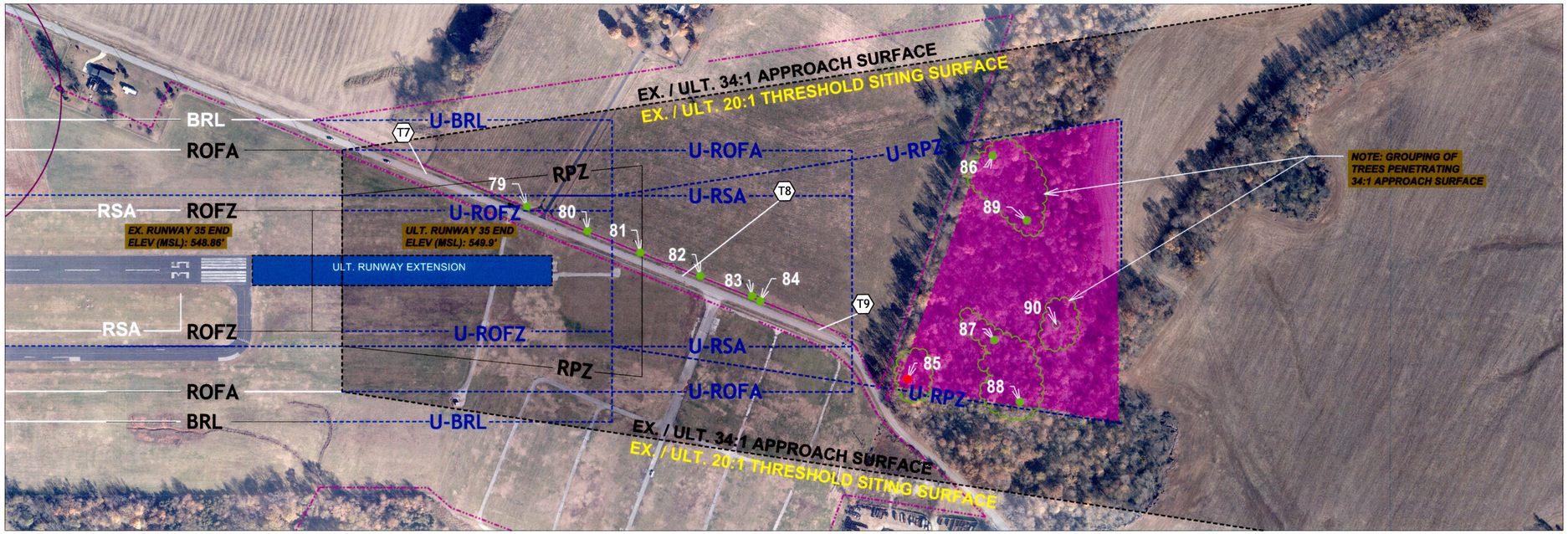
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE

INNER APPROACH SURFACE DRAWING (RW 17)

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



Magnetic Declination
March 2014
0° 17' 0" W
0.1°W Per Year

NORTH

PL EXISTING PROPERTY LINE

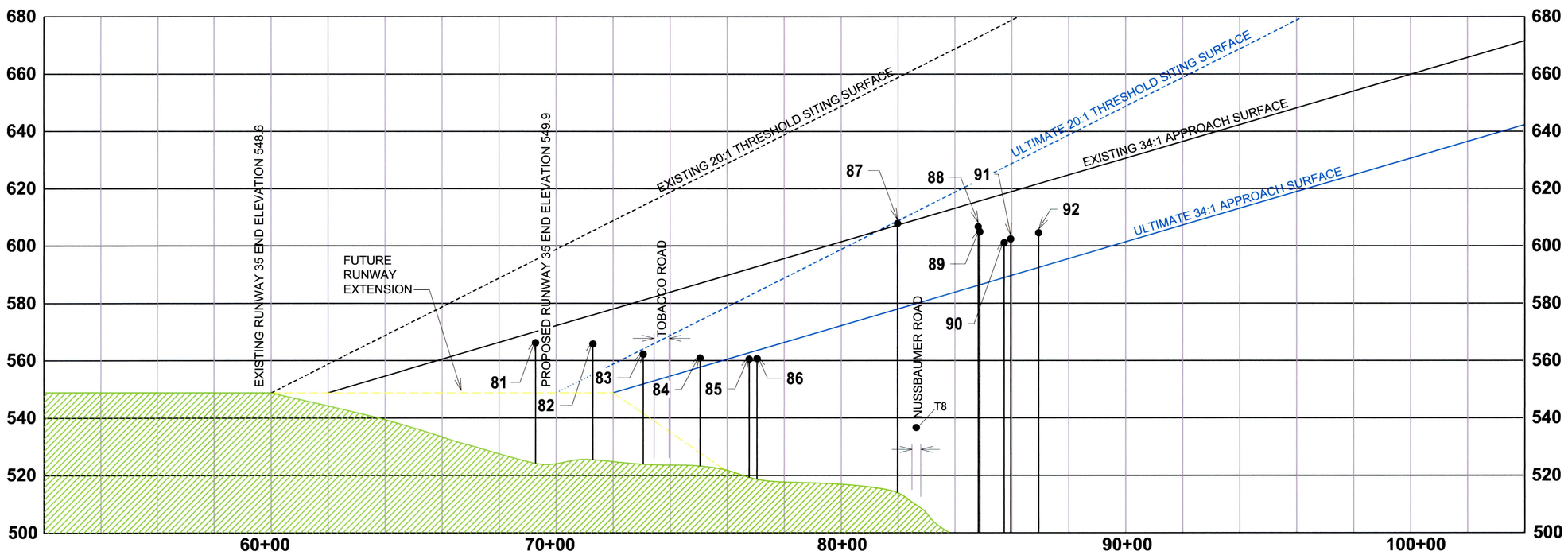
PPL PROPOSED PROPERTY LINE

OBSTRUCTIONS				
Part 77 Surface: Non-Precision Approach				
Part 77 Slope: 34 : 1				
#	Description	Top Elevation	Existing 34:1 Penetration	Proposed Action
79	POLE	567.50	-2.60	REMOVE *
80	POLE	567.10	-8.89	NONE
81	POLE	563.50	-17.67	NONE
82	POLE	562.20	-24.80	NONE
83	POLE	561.80	-30.24	NONE
84	POLE	562.00	-30.84	NONE
85	TREE	609.10	1.84	REMOVE
86	TREE	608.00	-7.57	NONE
87	TREE	606.20	-9.53	NONE
88	TREE	602.00	-15.82	NONE
89	TREE	603.70	-15.19	NONE
90	TREE	605.80	-15.93	NONE

* MONITOR FOR LATER REMOVAL

200' 0 200' 400' 600'

HORIZONTAL SCALE 1"=200'
VERTICAL SCALE 1"=20'



TRAVERSE WAY				
#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Proposed Action
T1	568.10	570.18	2.08	NO ACTION REQ'D
T2	565.50	564.79	-0.71	ADD LOW CLR. SIGN
T3	561.80	563.76	1.96	NO ACTION REQ'D
T4	528.60	535.45	6.85	NO ACTION REQ'D
T5	534.00	531.29	-2.71	CLOSE ROADWAY
T6	543.55	527.95	-15.60	CLOSE ROADWAY
T7	550.00	560.04	10.04	NO ACTION REQ'D
T8	538.15	584.39	46.24	NO ACTION REQ'D
T9	520.55	606.54	85.99	NO ACTION REQ'D
T10	549.15	545.37	-3.78	LOWER ROADWAY
T11	550.20	541.98	-8.22	LOWER ROADWAY
T12	551.45	538.80	-12.65	LOWER ROADWAY
T13	554.30	544.10	-10.2	LOWER RAILROAD

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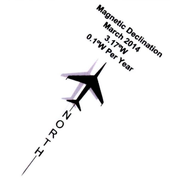
CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE
INNER APPROACH SURFACE DRAWING (RW 35)

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



PL EXISTING PROPERTY LINE

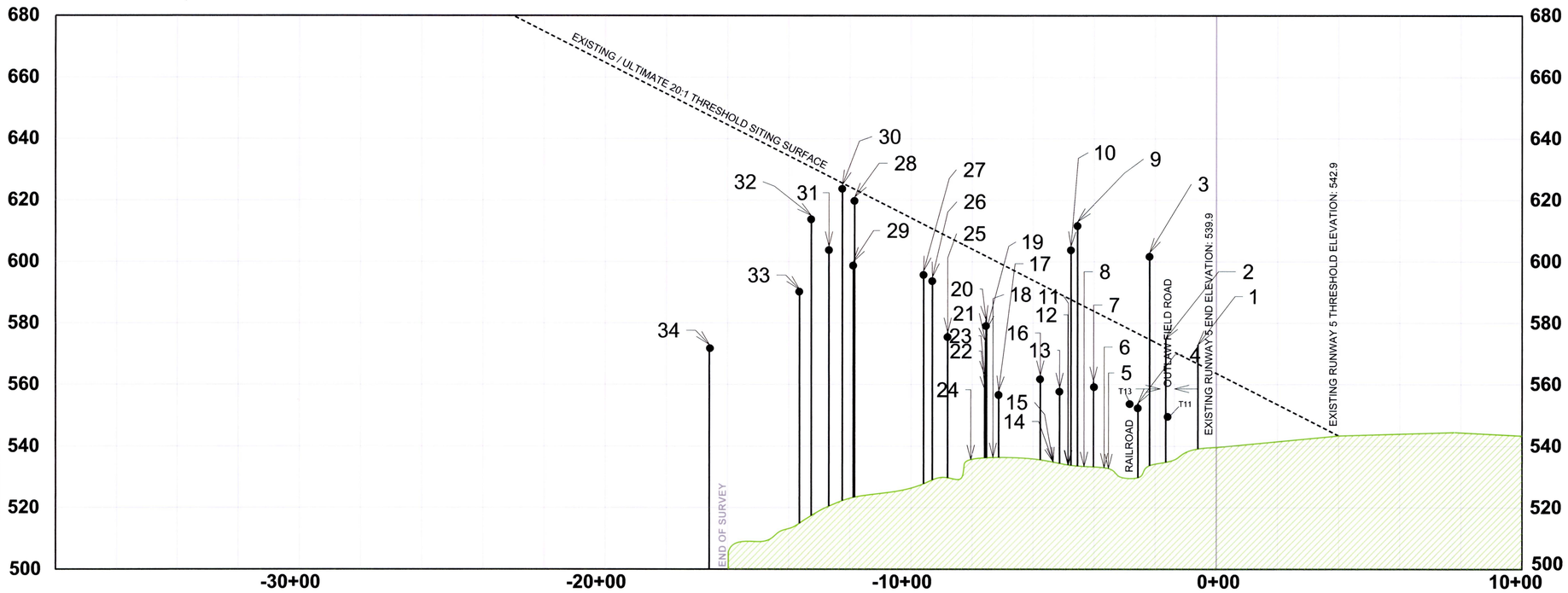
E EXISTING EASEMENT

IDENTIFIED TREE LOWER THAN LOWEST IN CLUSTER SO HEIGHT NOT IDENTIFIED

AIRPORT-PROVIDED EASEMENT

200' 0 200' 400' 600'

HORIZONTAL SCALE 1"=200'
VERTICAL SCALE 1"=20'



OBSTRUCTIONS				
Part 77 Surface: Visual Approach				
Part 77 Slope: 20 : 1				
#	Description	Top Elevation	Existing 20:1 Penetration	Proposed Action
1	TREE	573.00	7.07	REMOVE
2	TREE	575.00	3.72	REMOVE
3	TREE	603.00	28.97	REMOVE
4	RAILROAD	530.00	-2.19	LIGHT
5	TREE	TREE CLUSTER		NONE
6	TREE	TREE CLUSTER		NONE
7	TREE	561.00	-22.02	NONE
8	TREE	TREE CLUSTER		NONE
9	TREE	613.00	27.43	REMOVE
10	TREE	605.00	18.11	REMOVE
11	TREE	TREE CLUSTER		NONE
12	TREE	TREE CLUSTER		NONE
13	TREE	559.00	-29.75	NONE
14	TREE	TREE CLUSTER		NONE
15	TREE	TREE CLUSTER		NONE
16	TREE	563.00	-29.00	NONE
17	TREE	558.00	-42.83	NONE
18	TREE	TREE CLUSTER		NONE
19	STEEPLE	578.00	-22.50	NONE
20	TREE	581.00	-19.56	NONE
21	TREE	574.00	-26.67	NONE
22	TREE	558.00	-42.83	NONE
23	TREE	563.00	-37.00	NONE
24	TREE	TREE CLUSTER		NONE
25	TREE	577.00	-30.20	NONE
26	TREE	595.00	-14.87	NONE
27	TREE	597.00	-13.84	NONE
28	TREE	600.00	-22.78	NONE
29	TREE	621.00	-1.50	REMOVE *
30	TREE	625.00	0.47	REMOVE
31	TREE	605.00	-21.43	NONE
32	TREE	615.00	-14.61	NONE
33	TREE	591.00	-40.14	NONE
34	TREE	573.00	-73.74	NONE

NOTE:
1. DATE OF OBSTRUCTION SURVEY: 09 / 10 / 2009
2. SURVEY ACCURACY:NAD83 - 5CM
NAVD88 - 25CM
3. REFER TO THE AIRPORT AIRSPACE DRAWING FOR OBSTRUCTIONS IN HORIZONTAL AND CONICAL SURFACES.
4. CLEARANCES OVER TRAVERSE WAYS ARE 15' FOR PUBLIC ROADS AND 23' FOR RAILROADS.

TRAVERSE WAY				
#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Proposed Action
T1	568.10	570.18	2.08	NO ACTION REQ'D
T2	565.50	564.79	-0.71	ADD LOW CLR. SIGN
T3	561.80	563.76	1.96	NO ACTION REQ'D
T4	528.60	535.45	6.85	NO ACTION REQ'D
T5	534.00	531.29	-2.71	CLOSE ROADWAY
T6	543.55	527.95	-15.60	CLOSE ROADWAY
T7	550.00	560.04	10.04	NO ACTION REQ'D
T8	538.15	584.39	46.24	NO ACTION REQ'D
T9	520.55	606.54	85.99	NO ACTION REQ'D
T10	549.15	545.37	-3.78	LOWER ROADWAY
T11	550.20	541.98	-8.22	LOWER ROADWAY
T12	551.45	538.80	-12.65	LOWER ROADWAY
T13	554.30	544.10	-10.2	LOWER RAILROAD

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CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

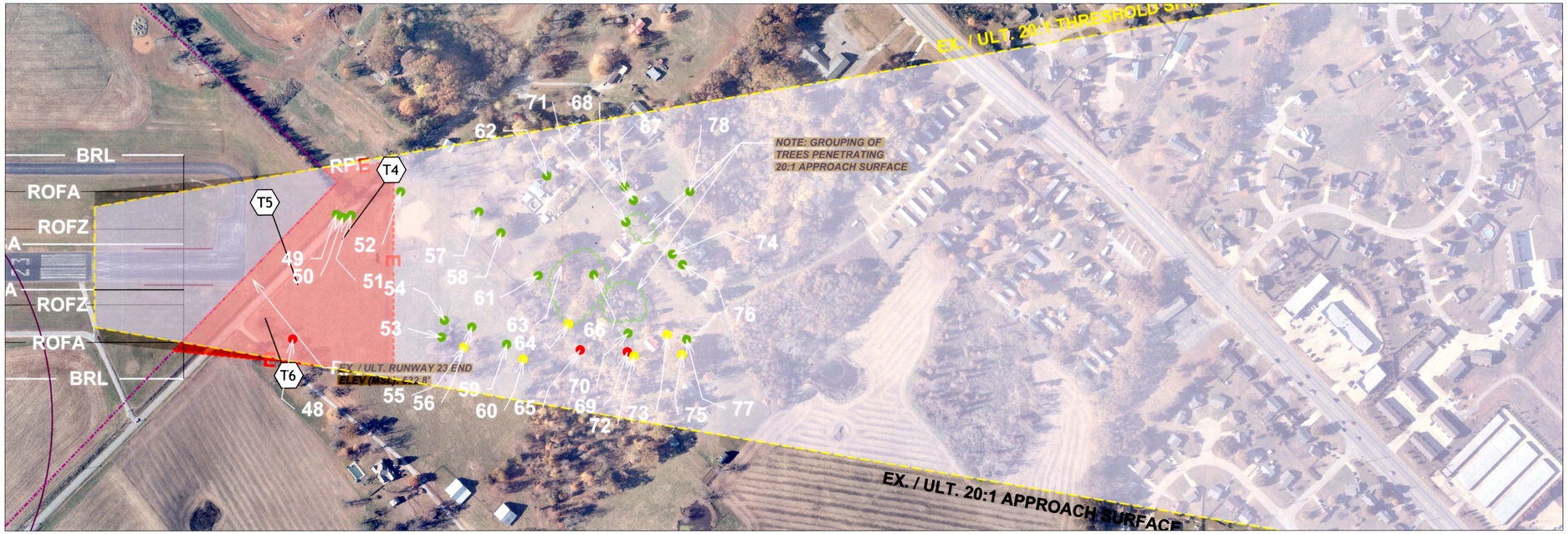
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE

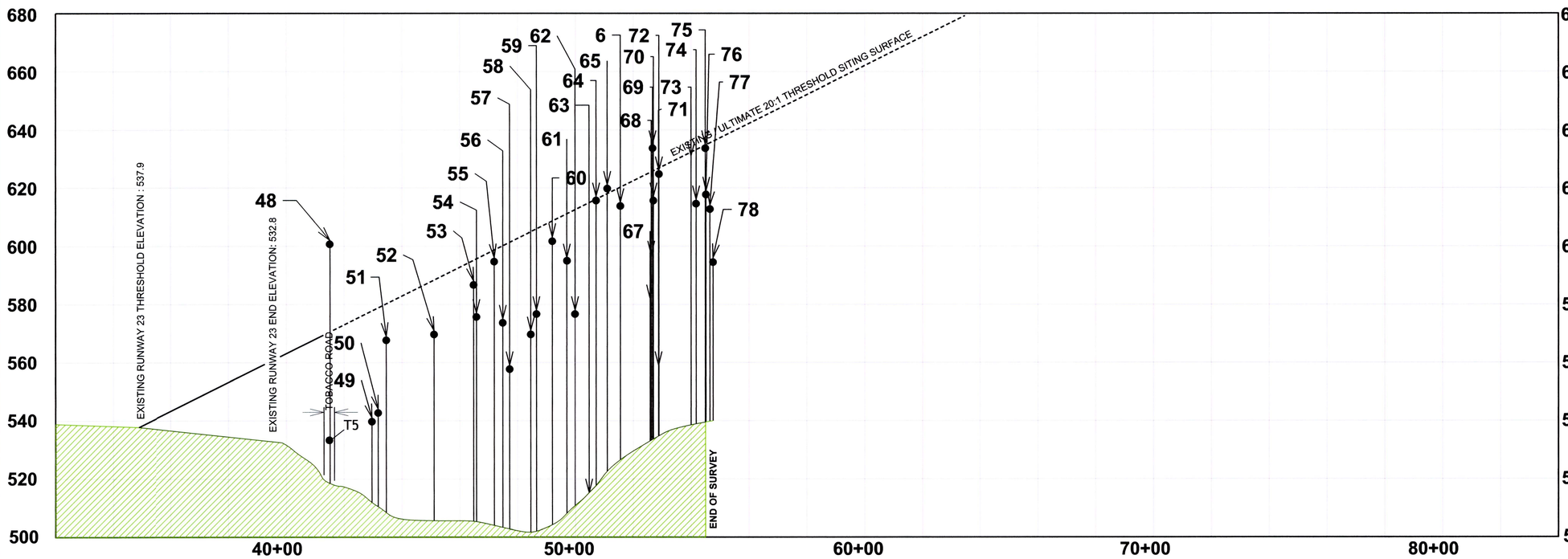
INNER APPROACH SURFACE DRAWING (RW 5)

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



200' 0 200' 400' 600'

HORIZONTAL SCALE 1"=200'
VERTICAL SCALE 1"=20'



Magnetic Declination
March 2014
0°17'W
0.1°W /Year

NORTH

--PL-- EXISTING PROPERTY LINE

– E – PROPOSED PROPERTY LINE

● IDENTIFIED TREE LOWER THAN LOWEST IN CLUSTER SO HEIGHT NOT IDENTIFIED

Part 77 Surface: Visual Approach				
Part 77 Slope: 20 : 1				
#	Description	Top Elevation	Existing 20:1 Penetration	Proposed Action
48	TREE	602.00	30.88	REMOVE
49	TREE	514.00	-37.52	NONE
50	TREE	544.00	-35.86	NONE
51	TREE	569.00	-11.84	NONE
52	TREE	571.00	-18.46	NONE
53	TREE	588.00	-7.91	NONE
54	TREE	577.00	-19.61	NONE
55	TREE	596.00	-3.97	REMOVE *
56	TREE	575.00	-25.98	NONE
57	TREE	559.00	-43.51	NONE
58	TREE	571.00	-35.58	NONE
59	TREE	578.00	-28.97	NONE
60	TREE	603.00	-7.04	REMOVE *
61	TREE	596.00	-16.43	NONE
62	TREE	578.00	-35.69	NONE
63	TREE	TREE CLUSTER		NONE
64	TREE	617.00	-0.41	REMOVE *
65	TREE	621.00	1.60	REMOVE
66	TREE	615.00	-6.50	NONE
67	TREE	582.00	-44.89	NONE
68	TREE	597.00	-30.04	NONE
69	TREE	635.00	7.94	REMOVE
70	TREE	617.00	-10.28	NONE
71	HOUSE	559.00	-69.05	NONE
72	TREE	626.00	-2.09	REMOVE *
73	TREE	631.00	-2.76	REMOVE *
74	TREE	616.00	-18.80	NONE
75	TREE	635.00	-0.95	REMOVE *
76	TREE	619.00	-17.29	NONE
77	TREE	614.00	-22.98	NONE
78	TREE	596.00	-41.95	NONE

* MONITOR FOR LATER REMOVAL

NOTES:
1. DATE OF OBSTRUCTION SURVEY: 09 / 10 / 2009
2. SURVEY ACCURACY:NAD83 - 5CM
   NAVD88 - 25CM
3. REFER TO THE AIRPORT AIRSPACE DRAWING FOR OBSTRUCTIONS IN HORIZONTAL AND CONICAL SURFACES.
4. CLEARANCES OVER TRAVERSE WAYS ARE 15' FOR PUBLIC ROADS AND 23' FOR RAILROADS.

TRAVERSE WAY				
#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Proposed Action
T1	568.10	570.18	2.08	NO ACTION REQ'D
T2	565.50	564.79	-0.71	ADD LOW CLR. SIGN
T3	561.80	563.76	1.96	NO ACTION REQ'D
T4	528.60	535.45	6.85	NO ACTION REQ'D
T5	534.00	531.29	-2.71	CLOSE ROADWAY
T6	543.55	527.95	-15.60	CLOSE ROADWAY
T7	550.00	560.04	10.04	NO ACTION REQ'D
T8	538.15	584.39	46.24	NO ACTION REQ'D
T9	520.55	606.54	85.99	NO ACTION REQ'D
T10	549.15	545.37	-3.78	LOWER ROADWAY
T11	550.20	541.98	-8.22	LOWER ROADWAY
T12	551.45	538.80	-12.65	LOWER ROADWAY
T13	554.30	544.10	-10.2	LOWER RAILROAD

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PH 615.377.1320 // FX 615.377.3630
www.chacompanies.com

CLARKSVILLE-MONTGOMERY COUNTY AIRPORT
200-A OUTLAW FIELD ROAD
CLARKSVILLE, TENNESSEE 37042

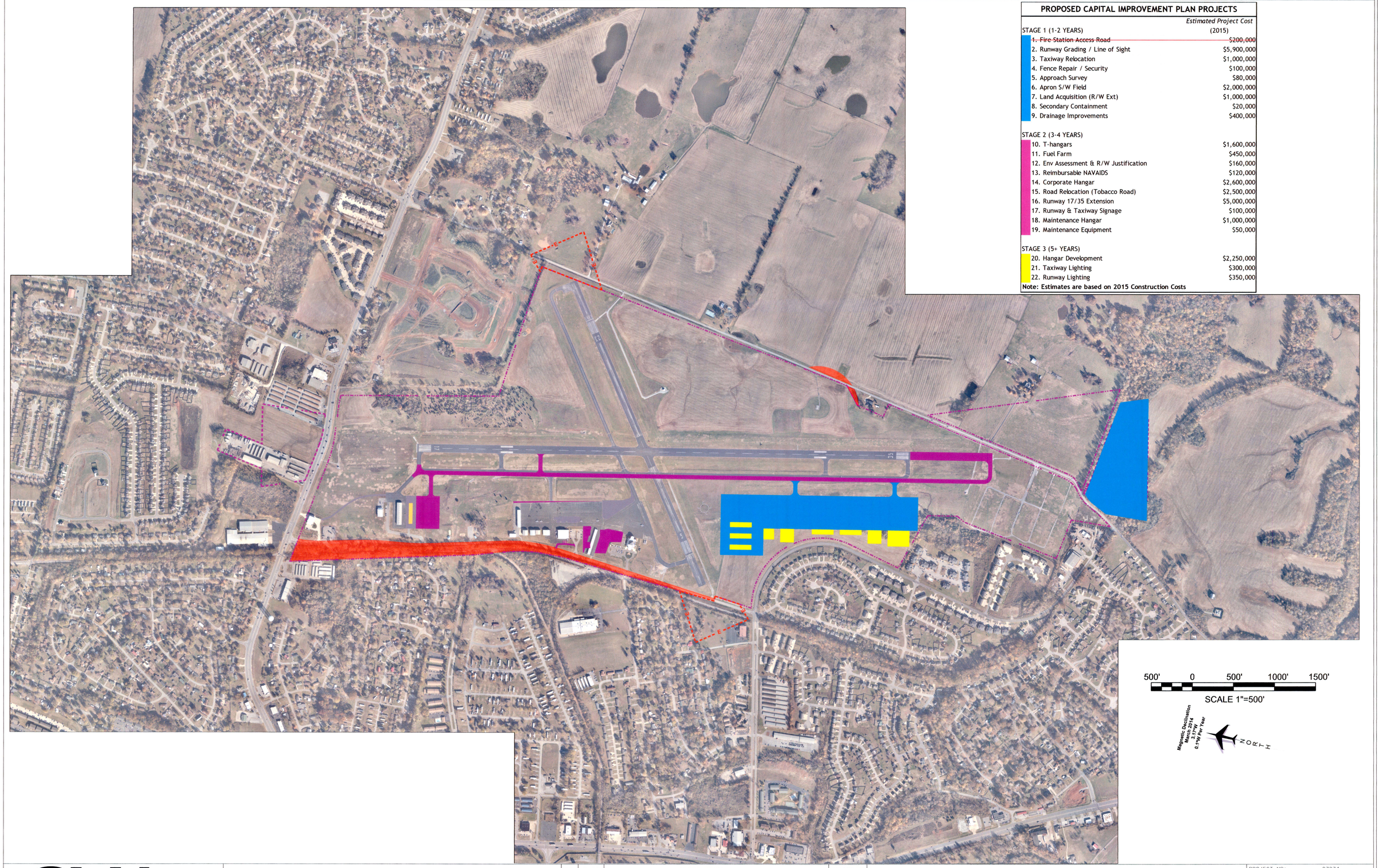
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 63-555-0742-04
AIRPORT LAYOUT PLAN UPDATE

INNER APPROACH SURFACE DRAWING (RW 23)

PROJECT NO:	27274
DRAWN BY:	RSC/CAS
DESIGNED BY:	RSC/CAS
CHECKED BY:	TAS
FILE NAME:	
DATE:	9/16
SCALE:	AS SHOWN



PROPOSED CAPITAL IMPROVEMENT PLAN PROJECTS

	Estimated Project Cost (2015)
STAGE 1 (1-2 YEARS)	
~~1. Fire Station Access Road~~	~~$200,000~~
2. Runway Grading / Line of Sight	$5,900,000
3. Taxiway Relocation	$1,000,000
4. Fence Repair / Security	$100,000
5. Approach Survey	$80,000
6. Apron S/W Field	$2,000,000
7. Land Acquisition (R/W Ext)	$1,000,000
8. Secondary Containment	$20,000
9. Drainage Improvements	$400,000
STAGE 2 (3-4 YEARS)	
10. T-hangars	$1,600,000
11. Fuel Farm	$450,000
12. Env Assessment & R/W Justification	$160,000
13. Reimbursable NAVAIDS	$120,000
14. Corporate Hangar	$2,600,000
15. Road Relocation (Tobacco Road)	$2,500,000
16. Runway 17/35 Extension	$5,000,000
17. Runway & Taxiway Signage	$100,000
18. Maintenance Hangar	$1,000,000
19. Maintenance Equipment	$50,000
STAGE 3 (5+ YEARS)	
20. Hangar Development	$2,250,000
21. Taxiway Lighting	$300,000
22. Runway Lighting	$350,000

Note: Estimates are based on 2015 Construction Costs

CHA
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AIRPORT CAPITAL IMPROVEMENTS PLAN DRAWING

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