



Engineering | Architecture | Planning | Allied Services

Leesburg City Commission

Leesburg International Airport

Interim Airport Layout Plan Update



August 12, 2013

Leesburg International Airport Interim ALP Update



Interim ALP "Checklist"

Task / Status		
Task 1	Airport Requirements	
Task 1.1	Collect / Document Historical Airport Data	COMPLETE
Task 1.2	Forecast Of Future Aviation Demand Facility Requirements	COMPLETE
Task 1.3	Submit FAA Form 7480-1 (Seaplane Base)	COMPLETE
Task 1.4	Draft Narrative Report	COMPLETE
Task 2	Airport Layout Plans	
Task 2.1	Airport Plan Drawings	COMPLETE

Goal – Submission to FAA & FDOT by August 19, 2013

Leesburg International Airport Interim ALP Update



Narrative Report Organization

Task / Status	
Introduction	Accomplishments since last Update
Section 1 Public Involvement	Community/User Input
Section 2 Airport Existing Conditions	Current Facilities
Section 3 Forecasts of Aviation Demand	Expected levels of future activity
Section 4 Facility Requirements	Expected future facility needs
Section 5 Airport Layout Plan Set	Future facility needs on FAA required drawings

Leesburg International Airport Interim ALP Update



Key Planning Elements

- **Forecasts of Aviation Demand (Section 3)**
 - ✓ Based Aircraft (total and by type)
 - ✓ Aircraft Operations (total and by type)
- **Future Airport Requirements (Section 4)**
 - ✓ Options to accommodate aircraft operations
 - ✓ Options to meet based aircraft demand
 - ✓ Safety and Security elements
- **Airport Layout Plan Drawings (Section 5)**

Leesburg International Airport Interim ALP Update



Forecasts of Aviation Demand

- **Trends specific to Central FL and KLEE**
 - ✓ FL Airport System Plan targets “market specialization” to enhance system capacity
 - ✓ KLEE uniquely positioned:
 - Runway and airfield improvements since last master plan update
 - Sea/Floatplane capacity – proximity to Lake Harris/Tavares and the addition of Wipaire to the tenant base
 - ✓ FTZ opportunities – benefits aviation and non-aviation businesses
 - ✓ City and County economic initiatives

KLEE is uniquely positioned – with capacity to grow

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Forecasts of Aviation Demand

- Based Aircraft – Total and By-Type

Table 8 Forecast Based Aircraft by Type, KLEE					
Type	2013		2018	2023	2033
	No.	Percent (%)			
Single Engine	94	66%	106	110	126
Multi-Engine	17	12%	22	24	28
Jet	5	3.5%	7	9	10
Helicopter	13	9%	15	16	17
Ultra-Light	9	6%	10	11	12
Floatplane	5	3.5%	7	9	13
Total	143	100%	167	179	206

Leesburg International Airport Interim ALP Update



Forecasts of Aviation Demand

- Aircraft Operations

Year	Actual	Forecast
2008	62,152	
2009	67,611	
2010	50,646	
2011	52,812	
2012	54,712	
2013*	28,906	56,190 (est)
2018		60,250
2023		65,592
2033		76,274

Note: * Year To Date (YTD) = January through June 2013

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Forecasts of Aviation Demand

Table 13 Forecast of Operational Fleet Mix, KLEE

Year	Total Operations	Single-Engine	Multi-Engine	Jet	Helicopter	Experimental	Floatplanes
2013 estimate		67%	12%	5%	7%	4%	5%
2018	60,250	40,368	7,230	3,012	4,217	2,411	3,012
2023	65,592	43,947	7,871	3,280	4,591	2,623	3,280
2033	76,274	51,104	9,153	3,815	5,339	3,048	3,815

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Forecasts of Aviation Demand

- Consolidated Forecast

Table 14 Forecast Summary				
	2013	2018	2023	2033
Based Aircraft				
Single-Engine	94	106	110	126
Multi-Engine	17	22	24	28
Jet	5	7	9	10
Helicopter	13	15	16	17
Ultralight	9	10	11	12
Floatplane	5	7	9	13
Total	143	167	179	206
Annual Airport Operations				
Local	32,759	35,167	38,286	44,521
Itinerant	23,245	24,884	27,092	31,506
Military	186	199	214	247
Total	56,190	60,250	65,592	76,274
Annual Instrument Approaches	4,934	5,302	5,772	6,712

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Facility Requirements

- **Projects carried over from previous Master Plan**
 - ✓ Reconfigure/relocate Taxiway B, D and A1 to conform to FAA Standards

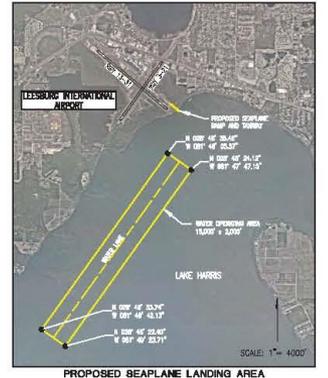
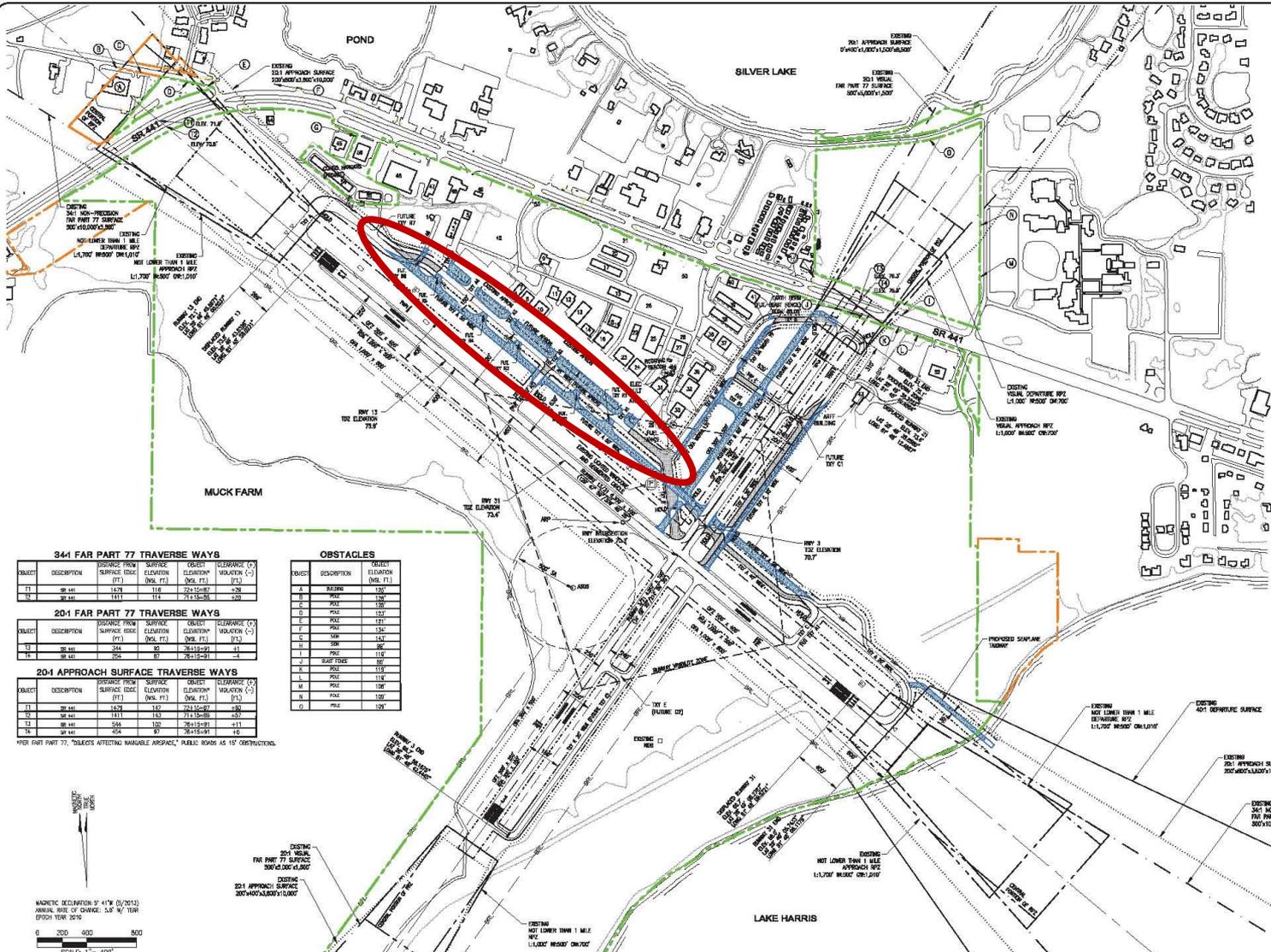
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Facility Requirements

- **Projects carried over from previous Master Plan**
 - ✓ Reconfigure/relocate Taxiway B, D and A1 to conform to FAA Standards
 - ✓ Realignment/widening of Taxiway A

Leesburg International Airport Interim ALP Update



PROPOSED BEAPLANE LANDING AREA

TENANT/BUILDING TRANSITIONAL CLEARANCES

BLOCK	STREET ADDRESS	DESCRIPTION	BUILDING SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
1	SR 441	SR 441	1470	116	1286
2	SR 441	SR 441	1470	116	1286
3	SR 441	SR 441	1470	116	1286
4	SR 441	SR 441	1470	116	1286
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44	SR 441	SR 441	1470	116	1286
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47	SR 441	SR 441	1470	116	1286
48	SR 441	SR 441	1470	116	1286
49	SR 441	SR 441	1470	116	1286
50	SR 441	SR 441	1470	116	1286

3441 FAR PART 77 TRAVERSE WAYS

BLOCK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	CLEARANCE (FT)
11	SR 441	1470	116	1286	184
12	SR 441	1470	116	1286	184

201 FAR PART 77 TRAVERSE WAYS

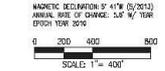
BLOCK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	CLEARANCE (FT)
13	SR 441	344	85	352.5	117.5
14	SR 441	344	85	352.5	117.5

2041 APPROACH SURFACE TRAVERSE WAYS

BLOCK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	CLEARANCE (FT)
11	SR 441	1470	116	1286	184
12	SR 441	1470	116	1286	184
13	SR 441	1470	116	1286	184
14	SR 441	1470	116	1286	184
15	SR 441	1470	116	1286	184
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48	SR 441	1470	116	1286	184
49	SR 441	1470	116	1286	184
50	SR 441	1470	116	1286	184

OBSTACLES

BLOCK	DESCRIPTION	OBJECT ELEVATION (FT)
1	BUILDING	130
2	TOWER	120
3	TOWER	120
4	TOWER	120
5	TOWER	120
6	TOWER	120
7	TOWER	120
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46	TOWER	120
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48	TOWER	120
49	TOWER	120
50	TOWER	120



LEGEND

EXISTING	LEGEND	FUTURE
---	AIRPORT PROPERTY LINE	---
---	PROPOSED	---
---	BOUNDARY	---
---	AUTOMATIC SURFACE OBSTRUCTION SYSTEM (ASOS)	---
---	4-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	---
---	3-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	---
---	ROCKING BEACON	---
---	RUNWAY END OBSTRUCTION LIGHTS (REOL)	---
---	LIGHTED WIND VANE AND ROTARY BEACON (LWVRO)	---
---	AIRPORT RESERVATION PARK (ARP)	---
---	APPROACH SURFACE	---
---	BUILDING RESTRICTION LINE (BRL) FOR 30' BLDG.	---
---	PAR PART 77 SURFACE	---
---	BOUNDARY/PAVED DRIVE AREA (BYP/PAV)	---
---	ORIGINAL FIRE ZONE (OFZ)	---
---	RUNWAY PROTECTION ZONE (RPZ)	---
---	RUNWAY/TAI/STOPWAY LIGHT (RWS/TAL)	---
---	AS SURFACE SURFACE	---
---	RUNWAY VISIBILITY ZONE	---
---	PAVED ROAD	---

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Facility Requirements

- **Projects carried over from previous Master Plan**
 - ✓ Reconfigure/relocate Taxiway B, D and A1 to conform to FAA Standards
 - ✓ Realignment/widening of Taxiway A
 - ✓ Expand aircraft parking apron adjacent to Taxiway A
 - ✓ Plan/Design new General Aviation Terminal

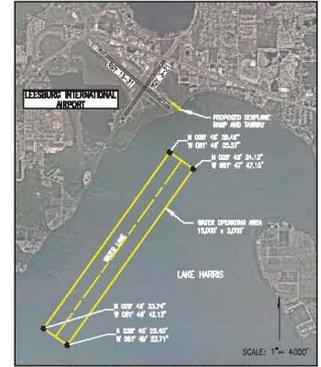
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Facility Requirements

- **Projects carried over from previous Master Plan**
 - ✓ Reconfigure/relocate Taxiway B, D and A1 to conform to FAA Standards
 - ✓ Realignment/widening of Taxiway A
 - ✓ Expand aircraft parking apron adjacent to Taxiway A
 - ✓ Plan/Design new General Aviation Terminal
- **“New” Projects proposed in this Interim ALP**
 - ✓ Construct Taxiway A2 and Taxiway A extension to the property line

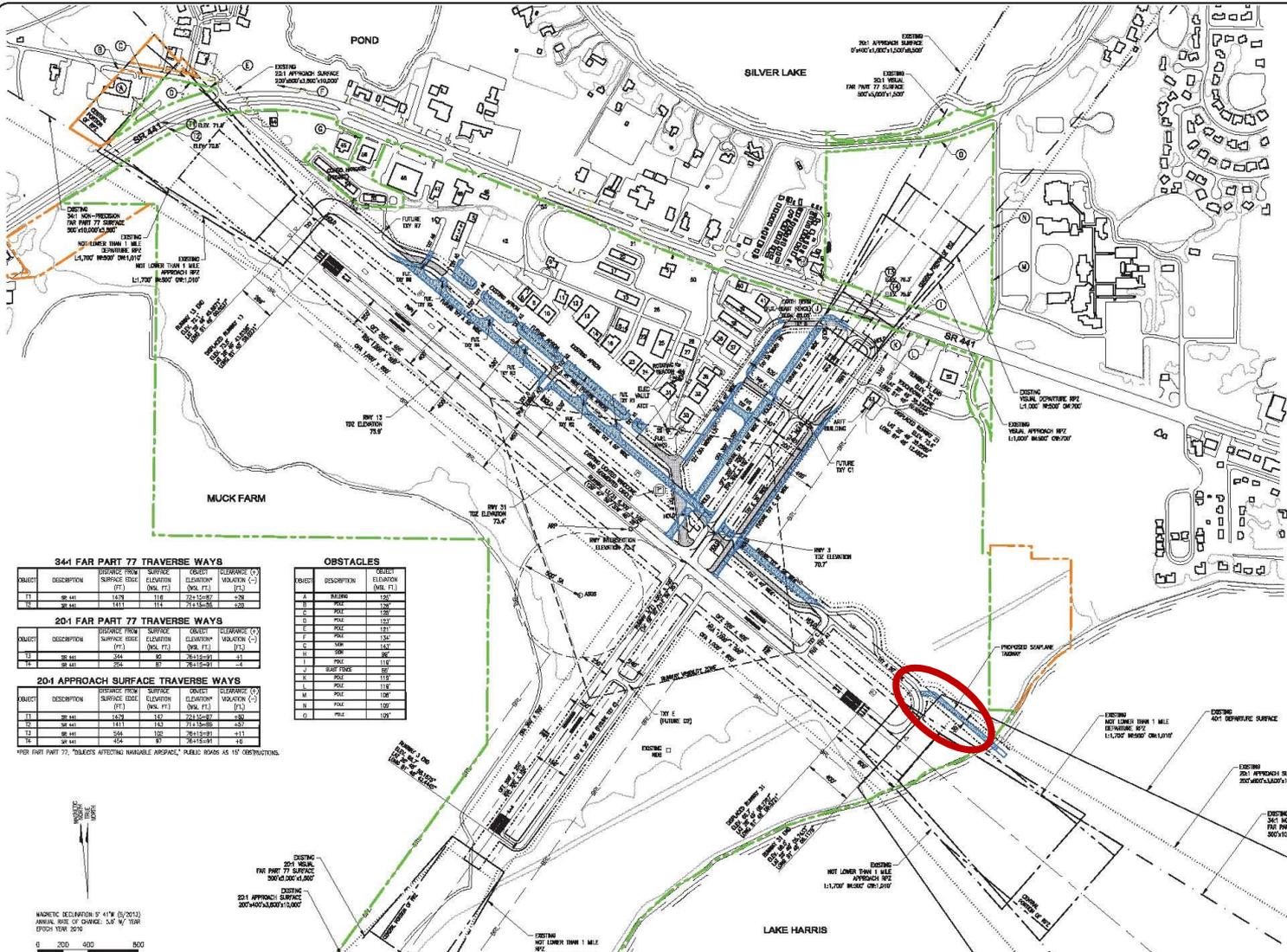
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TENANT/BUILDING TRANSITIONAL CLEARANCES

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3441 FAR PART 77 TRAVERSE WAYS

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201 FAR PART 77 TRAVERSE WAYS

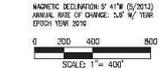
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201 APPROACH SURFACE TRAVERSE WAYS

BLK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
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OBSTACLES

BLK	DESCRIPTION	OBJECT ELEVATION (FT)
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96	SR 441	1470
97	SR 441	1470
98	SR 441	1470
99	SR 441	1470
100	SR 441	1470



LEGEND

EXISTING	LEGEND	FUTURE
[Symbol]	AIRPORT PROPERTY LINE	[Symbol]
[Symbol]	PROPOSED	[Symbol]
[Symbol]	ADJACENT PROPERTY	[Symbol]
[Symbol]	ASPHALTED SURFACE (CONCRETE SURF. (CONC.))	[Symbol]
[Symbol]	4-LEGT. PRECISION APPROACH LIGHT (PAP) (CONC.)	[Symbol]
[Symbol]	3-LEGT. PRECISION APPROACH LIGHT (PAP) (CONC.)	[Symbol]
[Symbol]	ROCKING BENCH	[Symbol]
[Symbol]	RUNWAY END IDENTIFIER LIGHTS (REIL) (CONC.)	[Symbol]
[Symbol]	IDENTIFIED WIND CODE AND SENSORIZED OBSOLETE CODE	[Symbol]
[Symbol]	AIRPORT RESERVATION LIGHT (ARL) FOR 30' SURF.	[Symbol]
[Symbol]	APPROACH SURF.	[Symbol]
[Symbol]	BUILDING RESTRICTION LIGHT (RFL) FOR 30' SURF.	[Symbol]
[Symbol]	PAR PART 77 SURFACE	[Symbol]
[Symbol]	SEMI-PERMANENT IDENTIFIED TREE AREA (SEMI-PTA)	[Symbol]
[Symbol]	OFFICIAL TREE ZONE (OTZ)	[Symbol]
[Symbol]	RUNWAY PROTECTION LIGHT (RPL) (CONC.)	[Symbol]
[Symbol]	RUNWAY/CLASSED SWATH LIGHT (RWSL) (CONC.)	[Symbol]
[Symbol]	ASPHALTED SURFACE	[Symbol]
[Symbol]	RUNWAY VISIBILITY ZONE	[Symbol]
[Symbol]	GRADE ROAD	[Symbol]

Leesburg International Airport Interim ALP Update



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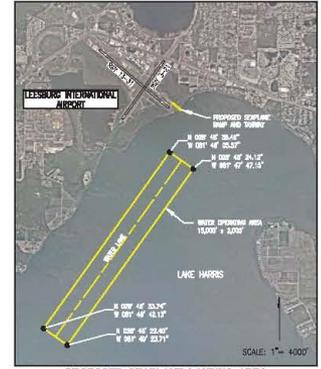
Leesburg International Airport Interim ALP Update



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 - ✓ Relocate Taxiway K

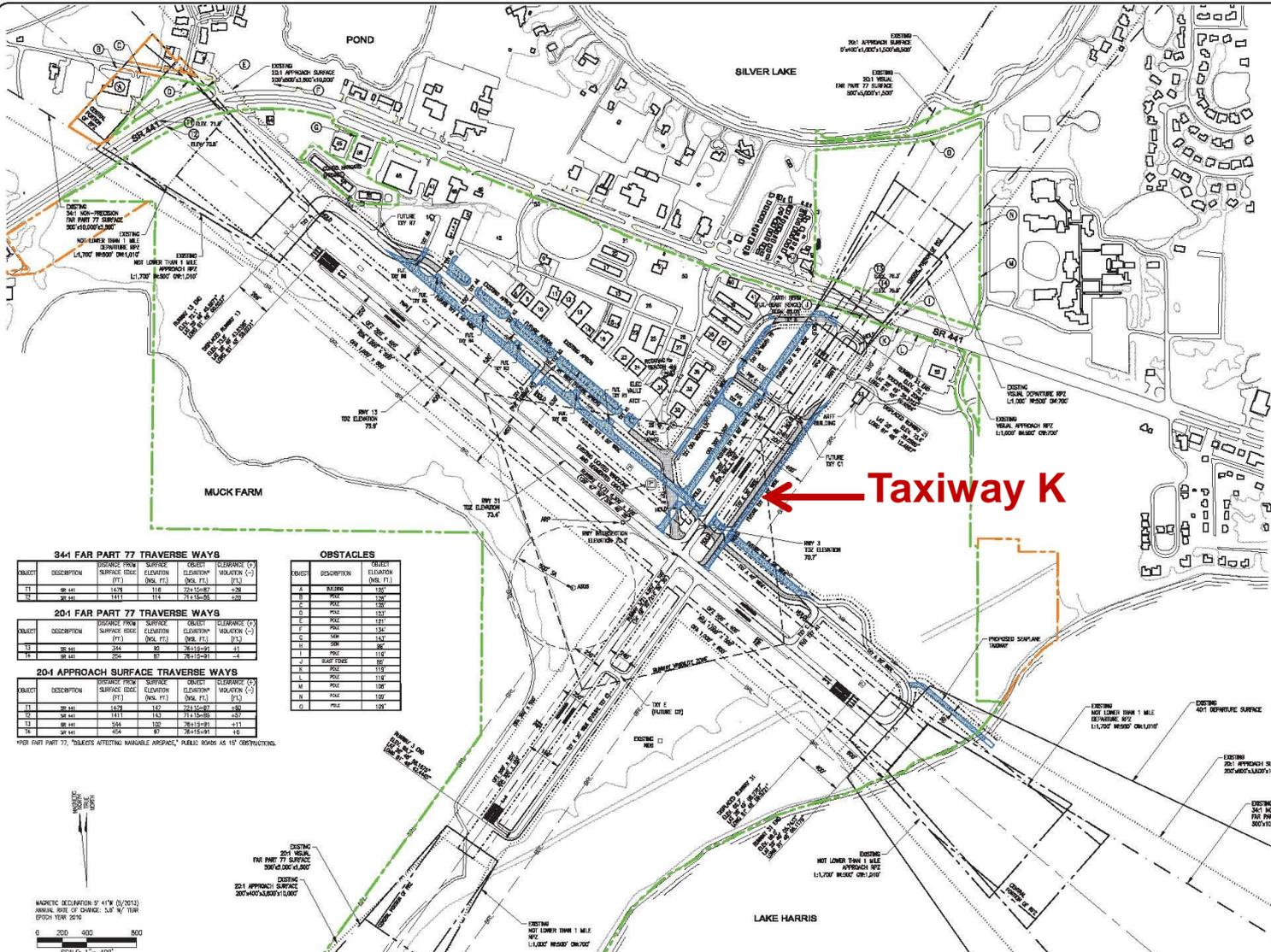
Leesburg International Airport Interim ALP Update



PROPOSED BEAPLANE LANDING AREA

TENANT/BUILDING TRANSITIONAL CLEARANCES

BLOCK	STREET ADDRESS	DESCRIPTION	BLDG SURFACE ELEVATION (FT)	EXISTING SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
1	3411	WALSH	100	100	100	100
2	3412	WALSH	100	100	100	100
3	3413	WALSH	100	100	100	100
4	3414	WALSH	100	100	100	100
5	3415	WALSH	100	100	100	100
6	3416	WALSH	100	100	100	100
7	3417	WALSH	100	100	100	100
8	3418	WALSH	100	100	100	100
9	3419	WALSH	100	100	100	100
10	3420	WALSH	100	100	100	100
11	3421	WALSH	100	100	100	100
12	3422	WALSH	100	100	100	100
13	3423	WALSH	100	100	100	100
14	3424	WALSH	100	100	100	100
15	3425	WALSH	100	100	100	100
16	3426	WALSH	100	100	100	100
17	3427	WALSH	100	100	100	100
18	3428	WALSH	100	100	100	100
19	3429	WALSH	100	100	100	100
20	3430	WALSH	100	100	100	100
21	3431	WALSH	100	100	100	100
22	3432	WALSH	100	100	100	100
23	3433	WALSH	100	100	100	100
24	3434	WALSH	100	100	100	100
25	3435	WALSH	100	100	100	100
26	3436	WALSH	100	100	100	100
27	3437	WALSH	100	100	100	100
28	3438	WALSH	100	100	100	100
29	3439	WALSH	100	100	100	100
30	3440	WALSH	100	100	100	100
31	3441	WALSH	100	100	100	100
32	3442	WALSH	100	100	100	100
33	3443	WALSH	100	100	100	100
34	3444	WALSH	100	100	100	100
35	3445	WALSH	100	100	100	100
36	3446	WALSH	100	100	100	100
37	3447	WALSH	100	100	100	100
38	3448	WALSH	100	100	100	100
39	3449	WALSH	100	100	100	100
40	3450	WALSH	100	100	100	100
41	3451	WALSH	100	100	100	100
42	3452	WALSH	100	100	100	100
43	3453	WALSH	100	100	100	100
44	3454	WALSH	100	100	100	100
45	3455	WALSH	100	100	100	100
46	3456	WALSH	100	100	100	100
47	3457	WALSH	100	100	100	100
48	3458	WALSH	100	100	100	100
49	3459	WALSH	100	100	100	100
50	3460	WALSH	100	100	100	100



Taxiway K

3441 FAR PART 77 TRAVERSE WAYS

BLK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
11	SR 441	1470	116	124	154.87
12	SR 441	1471	116	124	154.87

201 FAR PART 77 TRAVERSE WAYS

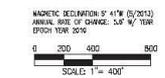
BLK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
13	SR 441	344	85	343	115.81
14	SR 441	354	87	343	115.81

2041 APPROACH SURFACE TRAVERSE WAYS

BLK	DESCRIPTION	SEPARATE FROM SURFACE ELEVATION (FT)	SURFACE ELEVATION (FT)	OBJECT ELEVATION (FT)	OBJECT ELEVATION (-)
11	SR 441	182	182	182	182
12	SR 441	181	183	181	183
13	SR 441	354	102	354	111
14	SR 441	354	87	354	111

OBSTACLES

BLK	DESCRIPTION	OBJECT ELEVATION (FT)
1	BUILDING	130
2	POW	120
3	POW	120
4	POW	120
5	POW	120
6	POW	120
7	POW	120
8	POW	120
9	POW	120
10	POW	120
11	POW	120
12	POW	120
13	POW	120
14	POW	120
15	POW	120
16	POW	120
17	POW	120
18	POW	120
19	POW	120
20	POW	120
21	POW	120
22	POW	120
23	POW	120
24	POW	120
25	POW	120
26	POW	120
27	POW	120
28	POW	120
29	POW	120
30	POW	120
31	POW	120
32	POW	120
33	POW	120
34	POW	120
35	POW	120
36	POW	120
37	POW	120
38	POW	120
39	POW	120
40	POW	120
41	POW	120
42	POW	120
43	POW	120
44	POW	120
45	POW	120
46	POW	120
47	POW	120
48	POW	120
49	POW	120
50	POW	120



LEGEND

EXISTING	LEGEND	FUTURE
---	AIRPORT PROPERTY LINE	---
---	PROPOSED	---
---	AIRFIELD OBSTACLE	---
---	AIRFIELD OBSTACLE	---
---	AUTOMATIC SURFACE OBSTACLE SYSTEM (ASOS)	---
---	4-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	---
---	3-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	---
---	ROCKING BEACON	---
---	RUNWAY END OBSTACLE LIGHTS (REOL)	---
---	LIGHTS AND SIGNS AND OBSTACLE CLEARANCE DATA	---
---	AIRPORT RESERVATION PATH (ARP)	---
---	APPROACH SURFACE	---
---	BUILDING ELEVATION DATA FOR FAR PART 77 SURFACE	---
---	SEMI-CIRCLE OBSTACLE FREE AREA (SOF/FOA)	---
---	ORIGINAL PAVED SURFACE	---
---	RUNWAY PROTECTION ZONE (RPZ)	---
---	RUNWAY/OBSTACLE CLEARANCE SURFACE (ROCS)	---
---	RUNWAY OBSTACLE ZONE	---
---	PAVED ROAD	---

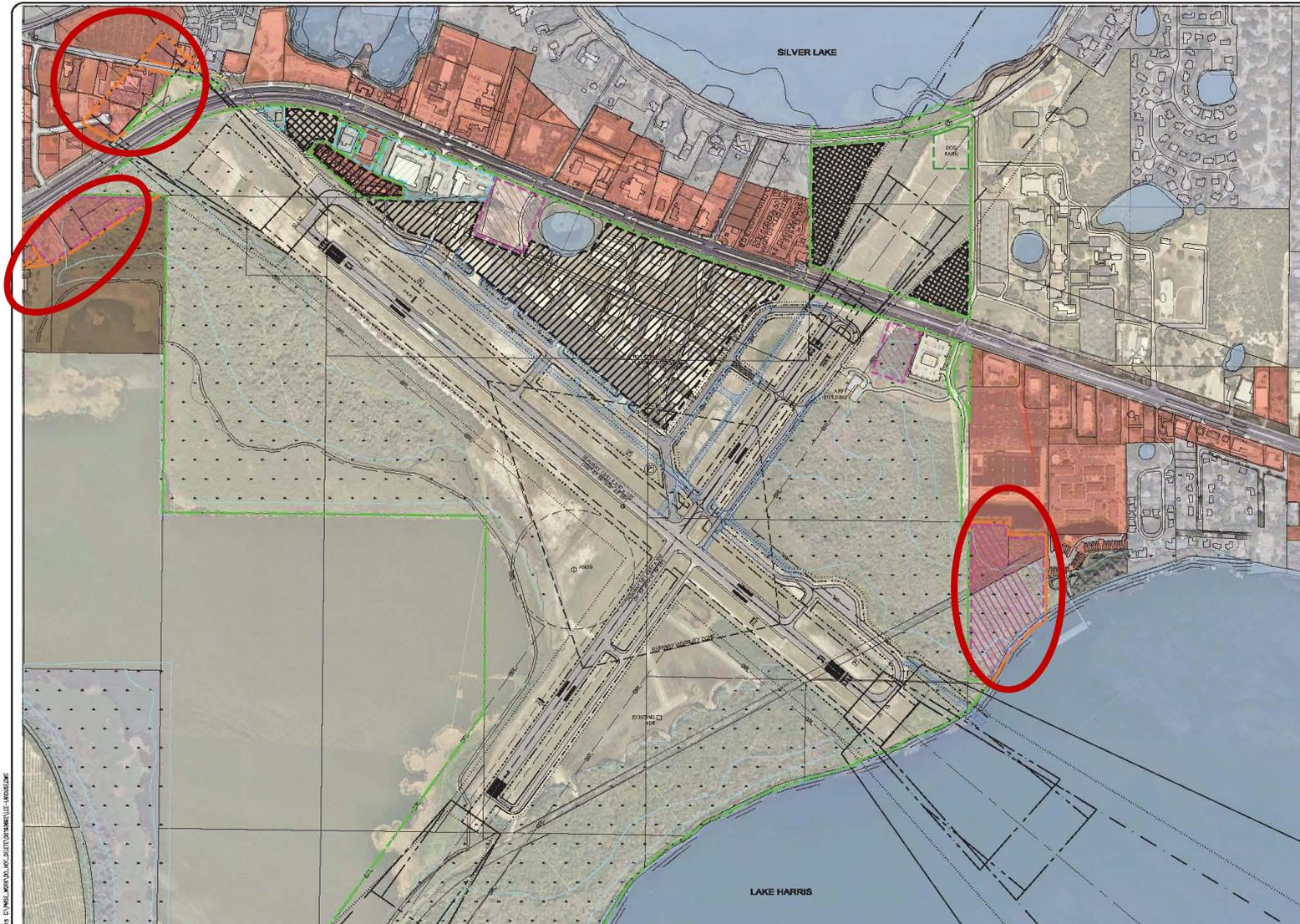
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 - ✓ Relocate Taxiway K
 - ✓ Install perimeter wildlife fencing

Leesburg International Airport Interim ALP Update-Land Use Plan



LAND USE LEGEND

LAND USE DESIGNATION:

- FRESHWATER FORESTED/SHRUB WETLAND
- WATER
- PUBLIC
- RESIDENTIAL
- COMMERCIAL
- INDUSTRIAL
- AGRICULTURE

ON-AIRPORT LAND USE:

- FUTURE ACQUISITION
- EXISTING AERONAUTICAL
- EXISTING NON-AERONAUTICAL
- FUTURE AERONAUTICAL
- FUTURE NON-AERONAUTICAL

MAGNETIC DECLINATION 4° 11' N (2013)
ANNUAL RATE OF CHANGE 5.6 W / YEAR
EXPIRE YEAR 2018

0 200 400 600
SCALE: 1" = 400'

EXISTING	LEGEND	FUTURE
	AIRPORT PROPERTY LINE	
	PRESENT	
	BOUNDARY	
	MONTHLY EASEMENT	
	ACTIVATED SURFACE DRAINAGE SYSTEM (AOS)	
	4-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	
	2-LIGHT PRECISION APPROACH PATH INDICATOR (PAPI)	
	SOUTH BEACON	
	RUNWAY END OBSTACLE LIGHTS (REOL)	
	LOCKED WIND CONE AND SEPARATED CIRCLE/WIND CONE	
	WINDY AIRSPACE (WAS) (WAS)	
	APPROACH SURFACE	
	100 FOOT T3 SURFACE	
	BUILDING RESTRICTION LINE (BRL) FOR 30' BLDG.	
	RUNWAY/TAXIWAY CENTER LINE AREA DESIGNATION	
	BOUNDARY FREE ZONE (BFZ)	
	RUNWAY PROTECTION ZONE (RPZ)	
	BLVD/ROADWAY SAFETY AREA (BSA/RTSA)	
	NET SURFACE SURFACE	
	RUNWAY VISIBILITY ZONE	
	PAYMENT REGION	

DATE: 01/16/2018 10:20 AM PROJECT: LEESBURG INTL AIRPORT

Leesburg International Airport Interim ALP Update



Next Steps

- **City Commission Approval**
- **Direct Staff to submit the Interim ALP and Narrative Report for FAA and FDOT review & Comment**
- **Incorporate projects into Airport Capital Improvement Program**