GRAND TRAVERSE COUNTY BOARD OF COMMISSIONERS STUDY SESSION

Wednesday, July 24, 2019 8:00 a.m.

Governmental Center, Commission Chambers 400 Boardman Avenue Traverse City, Michigan 49684

A Study Session is held for review and discussion of information only. This study session is being held to receive an update regarding the Airport.

If you are planning to attend and you have a disability requiring any special assistance at the meeting, please notify the County Clerk immediately at 922-4760.

AGENDA

- 1. OPENING CEREMONIES OR EXERCISES
- 2. ROLL CALL
- 3. FIRST PUBLIC COMMENT

Any person shall be permitted to address a meeting of the Board of Commissioners which is required to be open to the public under the provision of the Michigan Open Meetings Act. Public Comment shall be carried out in accordance with the following Board Rules and Procedures:

Any person wishing to address the Board shall state his or her name and address.

No person shall be allowed to speak more than once on the same matter, excluding time needed to answer Commissioners' questions, if any. The Chairperson shall control the amount of time each person shall be allowed to speak, which shall not exceed three (3) minutes. The Chairperson may, at his or her discretion, extend the amount of time any person is allowed to speak.

Public comment will be solicited during the two public comment periods noted in Rule 5.4, Order of Business. However, public comment will generally be received at any time during the meeting regarding a specific topic currently under discussion by the board. Members of the public wishing to comment should raise their hand or pass a note to the clerk in order to be recognized, and shall not address the board until called upon by the chairperson. Please be respectful and refrain from personal or political attacks.

- 4. Airport Update Maintaining/Improving Land Use and Obstructions
- 5. SECOND PUBLIC COMMENT (Refer to Rules under Public Comment above)
- 6. ADJOURNMENT

Cherry Capital Airport



AIRPORT UPDATE

MAINTAINING- IMPROVING LAND USE & OBSTRUCTIONS

Northwestern Regional Airport Commission

NRAC as directed by the Leelanau and Grand Traverse Counties

- Pursuant to Ch. 7 of the Michigan Aeronautics Code section 134
 - Acquire, establish, construct, enlarge, improve, maintain, equip, operate, regulate the Cherry Capital Airport and other aeronautical facilities and property incidental to its' operation per Public Act 327 of the Michigan Aeronautics Code
 - It is expressly understood that the NRAC shall comply with all laws and regulations, municipal, state, and federal

Public Act 327

- Directs governmental control to the NRAC to:
 - Act on behalf of the political subdivisions
 (Grand Traverse County and Leelanau
 County)acting jointly by which the NRAC is appointed all the powers of each such political subdivisions granted by this act

Goals



- Northwestern Regional Airport Commission Goals
 - Safe
 - Secure
 - Self Sufficient



TVC - 2018/2019

- **2018**
- ▶ 96,189 Aircraft Operations
- ▶ 500,416 Total Passengers
- 2.2 Million Pounds of Cargo
- > 2019
- > Total Passenger Up 12.5%
- > 216,571 Pounds of Cargo in June Up 5.1%









Airport Finance

- Operating Budget \$6.4 million
 - Supported by landing fees, aircraft and vehicle parking fees, rental fees, land rent, and concessionaire fees -those that use the airport support the airport
 - ► NO LOCAL TAX DOLLARS
 - Cherry Capital Airport is completely self sufficient





Airport Finance

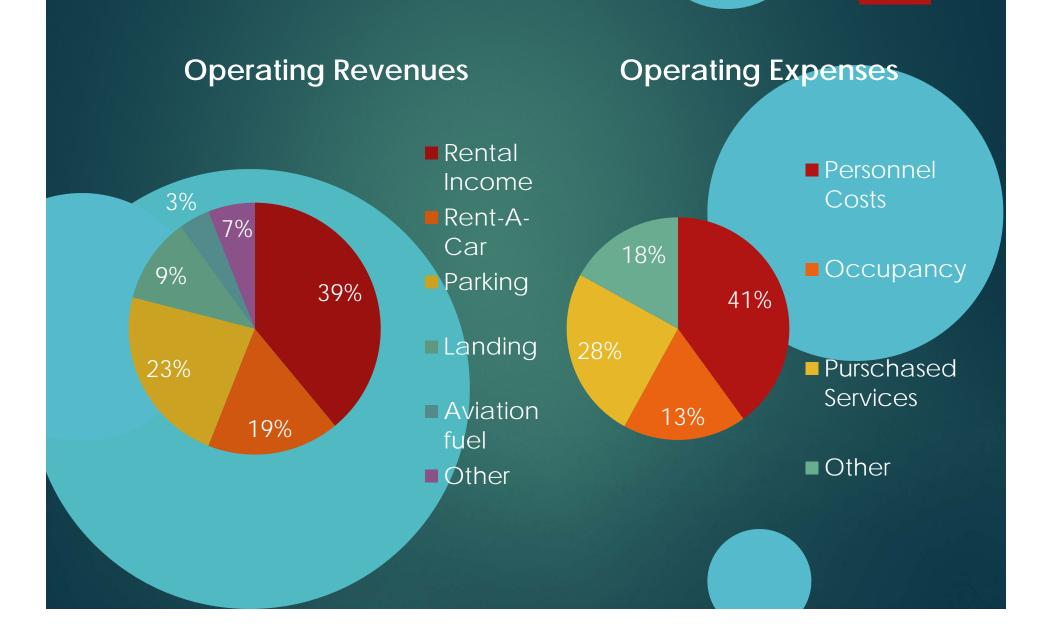


- Capital Budget \$2.0 million per year
 - Funding
 - Airport Improvement Program (AIP) money is made up from the tax on an airline ticket
 - ▶ Passenger Facility Charges \$4.50 per passenger
 - Funding is from the users of the airport system, no local tax dollars are used to support Cherry Capital Airport





Northwestern Regional Airport Commission



Airport Economic Impact

- Michigan Department of Transportation Office of Aeronautics – Community Benefits Assessment 2017
 - Determined that TVC annual economic Impact is \$991,364,000 ranking TVC 3rd in the state behind DTW and GRR
 - Average visitor spending per person is \$752.00 ranking TVC number 1 in the state
 - ► Local jobs 2,199

Airline Service – 5 Airlines, 14 Cities









UNITED







Compatible Land Use

- Land use on and in the vicinity of Airports (natural and man made) must be reserved for compatible uses to provide for the health, safety, and general welfare of the public
 - ► This is accomplished through Federal Aviation Regulations, Part 77 and 139, Michigan Aeronautics Code, Michigan Zoning Enabling Act
 - Local zoning also recognizes these hazards and regulates them
 - East Bay Township
 - Garfield Township
 - ▶ City of Traverse City
 - Acme Township
 - ▶ Peninsula Township
 - ► Elmwood Township



FAA Form 7460-1Notice of Proposed Construction or Alteration

NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION

§ 77.7 Form and time of notice.

(a) If you are required to file notice under §77.9, you must submit to the FAA a completed FAA Form 7460-1, Notice of Proposed Construction or Alteration. FAA Form 7460-1 is available at

(b) You must submit this form at least 45 days before the start date of the proposed construction or alteration or the date an application for a construction permit is filed, whichever is earliest.

(c) If you propose construction or alteration that is also subject to the licensing requirements of the Federal Communications Commission (FCC), you must submit notice to the FAA on or before the date that the application is filed with the FCC.

(d) If you propose construction or alteration to an (d) If you propose construction or alteration to an existing structure that exceeds 2,000 ft. in height above ground level (AGL), the FAA presumes it to be a hazard to air navigation that results in an inefficient use of airspace. You must include details explaining both why the proposal would not constitute a hazard to air navigation and why it would not cause an inefficient use of airspace

(e) The 45-day advance notice requirement is waived if immediate construction or alteration is required because of an emergency involving essential public services, public health, or public safety. You may provide notice to the FAA by any available, expeditious means. You must file a completed FAA Form 7460-1 within 5 days of the initial notice to the FAA. Outside normal business hours, the nearest flight service station will accept emergency notices.

§ 77.9 Construction or alteration requiring

If requested by the FAA, or if you propose any of

ction or alteration that is more than 200 ft. AGL at its site.

(b) Any construction or alteration that exceeds an

(b) Any construction or alteration that exceeds an imaginary surface extending outward and upward at any of the following slopes: (1) 100 to 1 for a horizontal distance of 20,000 ft. from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway more than

of this section with its longest runway more than 3,200 ft. in actual length, excluding heliports. (2) 50 to 1 for a horizontal distance of 10,000 ft. from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway no more than 3,200 ft. in actual length, excluding heliports.

(3) 25 to 1 for a horizontal distance of 5,000 ft. from the nearest point of the nearest described in paragraph (d) of this section

(c) Any highway, railroad, or other traverse way for mobile objects, of a height which, if adjusted upward 17 feet for an Interstate Highway that is part of the National System of Military and Interstate Highways where overcrossings are designed for a minimum of 17 feet vertical designed for a minimum of 17 feet vertical distance, 15 feet for any other public roadway, 10 feet or the height of the highest mobile object that would normally traverse the road, whichever is greater, for a private road, 23 feet for a railroad, and for a waterway or any other traverse way not height of the highest mobile object that would normally traverse it, would exceed a standard of paragraph (a) or (b) of this section

(d) Any construction or alteration on any of the following airports and heliports:
(1) A public use airport listed in the Airport/Facility Directory, Alaska Supplement, or Pacific Chart Supplement of the U.S. Government Flight Information Publications;

Government Flight Information Publications;
(2) A millitary airport under construction, or an airport under construction that will be available for public use;
(3) An airport operated by a Federal agency or the DOD.

(4) An airport or he liport with at least one FAA-approved instrument approach

(e) You do not need to file notice for construction

(1) Any object that will be shielded by existing structures of a permanent and existing structures of a permiseria that is substantial nature or by natural terrain or topographis features of equal or greater height, and will be located in the congested area of a city, town, or settlement where the shielded structure will not adversely affect safety in air

(2) Any air navigation facility, airport visual approach or landing aid, aircraft arresting device, or meteorological device meeting FAA-approved stiling riteria or an appropriate military service siting criteria on military airports, the location and height of which are fixed by its functional purpose;

(3) Any construction or alteration for which notice is required by any other FAA

(4) Any antenna structure of 20 feet or less in height, except one that would increase the height of another antenna structure.

Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Website: https://oeaaa.faa.gov

INSTRUCTIONS FOR COMPLETING FAA FORM 7460-

PLEASE TYPE or PRINT

ITEM #1. Please include the name, address and phone number of a personal contact point as well as the company name.

ITEM #2. Please include the name, address and phone number of a personal contact point as well as the company name

ITEM #3. NewConstruction would be a structure that has not yet been built.

Alteration is a change to an existing structure such as the addition of a side mounted antenna, a change to the marking and lighting, a change to power and/or fequency, or a change to the height. The nature of the alteration shall be included in ITEM #21 "Complete Description of Proposal".

Existing would be a correction to the latitude and/or longitude, a correction to the height, or if filing on an existing structure which has never been studied by the FAA. The reason for the notice shall be included in ITEM #21 "Complete Description of Proposal".

ITEM #4. If Permanent, so indicate. If Temporary, such as a crane or drilling derrick, enters the estimated length of time the temporary

ITEM #5. Enter the date that construction is expected to start and the date that construction should be completed

ITEM #6. Please indicate the type of structure. DO NOT LEAVE BLANK.

ITEM \$7. In the event that obstruction marking and lighting is required, please indicate type desired. If no preference, check "other" and indicate" no preference "DO NOT LEAKE BLAIK. NOTE: "High intensity lighting shall be used only for structures over 500 AGL. In the absence of high intensity lighting to structures over 500 AGL. In the absence of high intensity lighting for structures over 500 AGL. In an ling is also required.

ITEM #8. If this is an existing tower that has been registered with the FCC, enter the FCC Antenna Structure Registration no

ITEM 59 and 510. Lattude and longitude must be populytic conditiones, accorate to within the nearest second or in the reserved handed not a second of shown. Lattude and longitude offered selectly on in sharehold 0.9.5 in only accorate to within 100 meeters (123 feet) 55 percent of the time. This data, when plotted, should match the site despition automatical work ITEM 200.

ITEM #11. NAD 83 is preferred, however, listfuide and longitude may be submitted in NAD 27. Also, in some geographic areas where NAD 27 and NAD 83 are not available other disturn may be used. It is important to know which datum is used. <u>DD NDT LEAVE BLANK</u>. ITEM #12. Enter the name of the naceset oilty and state to the site. If their structure is or will be in a city, are fire he name of the nation of the name of their other structures.

ITEM #13. Enter the full name of the nearest public-use (not private-use) airport or heliport or military airport or heliport to the site.

ITEM #14. Enter the distance from the airport or heliport listed in #13 to the structure.

ITEM #15. Enter the direction from the airport or heliport listed in #13 to the structure.

ITEM #16. Enter the site elevation above mean sea level and expressed in whole feet incurded to the nearest foot (e.g. 173" rounds to 17). 175" rounds to 18). This data shouldnistch the ground control elevations for site deposition sum thed under ITEM #20. ITEM #17. Enter that studence height show ground level in whole feet rounds for the neet highest foot (e.g. 173" rounds to 18). The total studence height shall include anything mounted on top of the structure, such as interman, obstruction lights, lightning mode, set.

ITEM #18. Enter the overall height above mean sea level and expressed in whole feet. This will be the total of ITEM #16 + ITEM #17

ITEM #19. If an FAA peronautical study was previously conducted, enter the previous study number.

ITEM ED. Enter the relationship of the shockurs for made, apports, prominer terrain, seating shockurs, etc. Allests in 8-10° at 10° and entered leading of the apportage 17° at them LEO. Seedings of them (\$10.50°) collecting than IMPRED WITH APPECES BROUGH OF THE STEEL LOCATION. To obtain made, contract USGS at 1-888-725-874° or its internet at 1 this information gard. If available, statish a copy of a countered date survey with the surveyor or collection stating the arms of a Vertical and Implication accounts for the surveyor.

- . For transmitting stations, include maximum effective radiated power (ERP) and all frequencie
- . For antennas, include the type of antenna and center of radiation (Attach the antenna pattern, if available).
- · For microwave, include azimuth relative to true north.
- · For overhead wires or transmission lines, include size and configuration of wires and their supporting structures (Attach depiction).
- For each pole/support, include coordinates, site elevation, and structure height above ground level or water.
 For buildings, include site orientation, coordinates of each corner, dimensions, and construction materials.
- · For alterations, explain the alteration thoroughly
- . For existing structures, thoroughly explain the reason for notifying the FAA (e.g. corrections, no record or previous study, etc.).

Filing this information with the FAA does not relieve the sponsor of this construction or alteration from complying with any other federal, state or local rules or regulations. If you are not sure what other rules or regulations apply to your proposal, contact localisate availation's and zoning authorities.

Please Type or Printed This Ferni Failure To Provide All Requested Information		Form Approved ONB No.2120- Expressor Dest: 10:01/2011 FOR FAA USE ONLY
		North State State States
13 housewater Notice of Proposed Cons	truction or Alteration	
1. Sponsor (person, company, etc. proposing this action):	9. Latitudes 0	
Attn. of	10. Longitude:	. — —
Name:		
Address	11. Datum: NAD 83 NAD 27	Other Other
- Control of the Cont	12. Hearest: City:	
CityStateJip	13. Hearest Public-are (sat private-use) or M	Itary Arport or Heliport
Telephone:Fax:	17/	
2. Sponsor's Representative (if other than #1):	14. Distance from #13. to Structure:	
Attn. of	15. Direction from #13. to Structure:	
Name:	16. Site Elevation (AMSL):	<u> </u>
Address	17. Total Structure Height (AGL):	
MSUNN-G	18. Overall Height (MC + M7) (AMSL):	
City: State: Zip:	19. Previous FAA Aeronautical Study Nur	
Telephone: Fax:		- 0E
	 Description of Location: (Attach a USG precise site marked and any certified survey) 	\$ 7.5 minute Quadrangle Map with
3. Hotice of: New Construction Alteration Distring	process are a single storage comments survey)	
4. Duration: Permanent Temporary (months,days)		
5. Work Schedule: BeginningEnd	L	
6. Type: Antenna Tower Care Suiting Power Line	1	
Landfill Water Tank Other	4	
7. Marking Painting and/or Lighting Preferred:		
Red Lights and Paint: Dual - Red and Medium Intensity		
White-Medium Intensity Dual - Red and high Intensity White-High Intensity Other		
8. FCC Antenna Structure Registration Number (# applicable)		
er i se renema austria e regionation number (il approprie).	l ₂	
21. Complete Description of Proposal	1/2	FrequencyPower (k
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Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 4 requirements of part 77 are subject to a cold penalty of \$1,000 per	day until the notice is received, pursuant to 49 U.S.C.,	3ection 40301(a)
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requirements of part TT are subject to a civil penalty of \$1,000 per	day until the notice is received, pursuant to 49 U.S.C., and correct to the best of my knowledge. In additi- sary.	on. I agree to mark and/or light th

Federal Regulations and Standards

- ► Federal Aviation Regulation Part 139 Certification of Airports
 - In a manner authorized by the Administrator, each certificate holder must ensure that each object in each area within its authority that has been determined by the FAA to be an obstruction is removed, marked, or lighted, unless determined to be unnecessary by an FAA aeronautical study. FAA Advisory Circulars contain methods and procedures for the lighting of obstructions that are acceptable to the Administrator.
- Protecting for Federal Aviation Regulation Part 77
 - The size of each Part 77 imaginary surface is based on the category of each runway.
 - Categories are based on the type of runway utility or non-utility and type of runway approach visual, non-precision or precision instrument.
 - This information must be shown on your Airport Layout Plan (ALP) and kept current.
 - The FAA 5010 Airport Master Report (lines 50-58) identify obstruction data related to Part 77 Approach Surface.
- ▶ Application of Table 3-2 in FAA's AC 150/5300-13A "Design AC".
 - ► Table 3-2 Approach/departure standards table (aka "TSS").
 - Per a specific runway type (nine categories in table) based on visual or instrument approach, type of aircraft, and visibility minimums.
 - More recently updated ALPs are showing the application of TSS. TSS cannot be applied to a runway unless shown on an approved ALP.

			DIMEN	NSIONA	AL STAN	DARDS	(FEET)
DIM	ITEM	VISUAL RUNWAY		NON - PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT
					В		RUNWAY PIR
		A	<u>B</u>	<u>A</u>	<u>C</u>	D	1110
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
В	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		1 1 1 1 2 1 1 E	VISUAL APPROACH NON - PRECISION INSTRUMENT APPROACH		VISUAL INSTRUMENT PRE		PRECISION INSTRUMENT
				A B		APPROACH	
		Α	В	_^	С	D	
С	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	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 MILE
- D VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- * PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



Table 3-2. Approach and Departure Standards Table 1,2

	Runway Type	D	Slope				
	• • • • • • • • • • • • • • • • • • • •	A	В	C	D	E	-
1	Approach end of runways expected to serve small airplanes with approach speeds less than 50 knots. (Visual runways only, day/night).	0 (0)	120 (37)	300 (91)	500 (152)	2,500 (762)	15:1
2	Approach end of runways expected to serve small airplanes with approach speeds of 50 knots or more. (Visual runways only, day/night).	0 (0)	250 (76)	700 (213)	2,250 (686)	2,750 (838)	20:1
3	Approach end of runway expected to serve large airplanes. (Visual runways only, day/night).	0 (0)	400 (122)	1,000 (305)	1,500 (457)	8,500 (2591)	20:1
4	Approach end of runways expected to accommodate instrument approaches having visibility greater than or equal to 3/4 statute mile. 3	200 (61)	400 (122)	3,400 (1158)	10,000 ⁴ (3048)	0 (0)	20:1
5	Approach end of runways expected to accommodate instrument approaches having visibility minimums less than 3/4 statute mile.	200 (61)	800 (244)	3,400 (1158)	10,000 ⁴ (3048)	0 (0)	34:1
6.5	Approach end of runways expected to accommodate instrument approaches with vertical guidance.	0 (0)	Runway width 200 (61)	1520 (463)	10,000 ⁴ (3048)	0 (0)	30:1
7	Departure runway ends used for any instrument operations.	0 6		See Fig	ure 3-4.		40:1

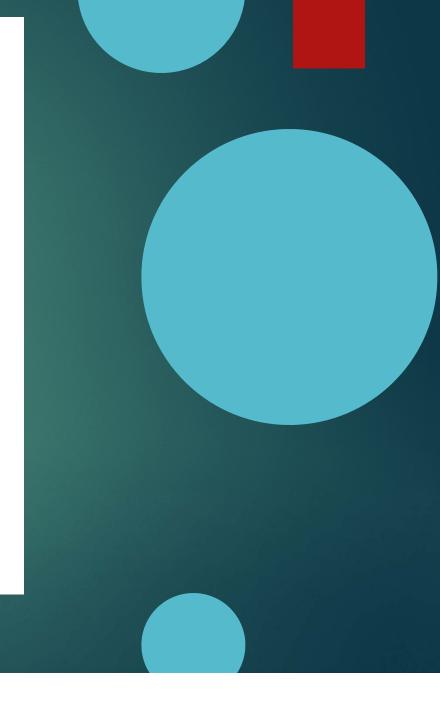
^{*} The letters are keyed to those shown in Figure 3-2 of AC 150/5300-13A.

General Notes:

- 1. This table presents the dimensional standards applicable to varying runway types based on normal conditions (e.g. standard 3-degree glidepath angle). Meeting the requirements of this table will protect the use of the runway in both visual and instrument meteorological conditions near the airport while ensuring maximum runway utility. Final published visibility minimums are determined, in part, by applying the criteria described in FAA Order 8260.3.
- 2. For planning purposes, objects must remain clear of the surfaces provided in this table. The FAA Flight Procedures Team must mitigate existing obstacles that penetrate instrument procedures that cannot be removed, relocated, or lowered. A modification of standards is not issued for the surfaces described in this table, in accordance with FAA Order 5300.1.
- Marking and lighting of obstacle penetrations to this surface or the use of a Visual Guidance Slope Indicator (VGSD), may avoid displacing the threshold. Contact the Flight Procedures Team if existing obstacles penetrate this
- surface.

 4. 10,000 feet (3048 m) represents a nominal value for planning purposes. For runways with only straight-in approaches, the length is dependent on the TERPS visual descent point or DA point. For runways with both circling and straight-in approaches, the length is the greater of 10,000 feet or the TERPS visual descent point/DA point.
- The criteria in Row 6 is required in addition to the applicable approach surface established within the table. Applicable to ILS, GLS, LPV, LNAV/VNAV, and RNP lines of minima.
- Dimension A is measured relative to the TODA (to include clearway).





Federal grant assurances directly related to approaches.....

- Airport sponsors accepting federal AIP funding must agree to certain obligations and conditions associated with receiving the funds. These assurances require the grant recipients to maintain and operate their airports safely & efficiently and in accordance with specified conditions.
- Effective operation & maintenance of airport (#19)
- Hazard removal Protection of approaches to airport (#20)
- ► Ensure <u>compatible land use</u> and zoning (#21)
- Adherence to the approved <u>Airport Layout Plan</u> (#29)

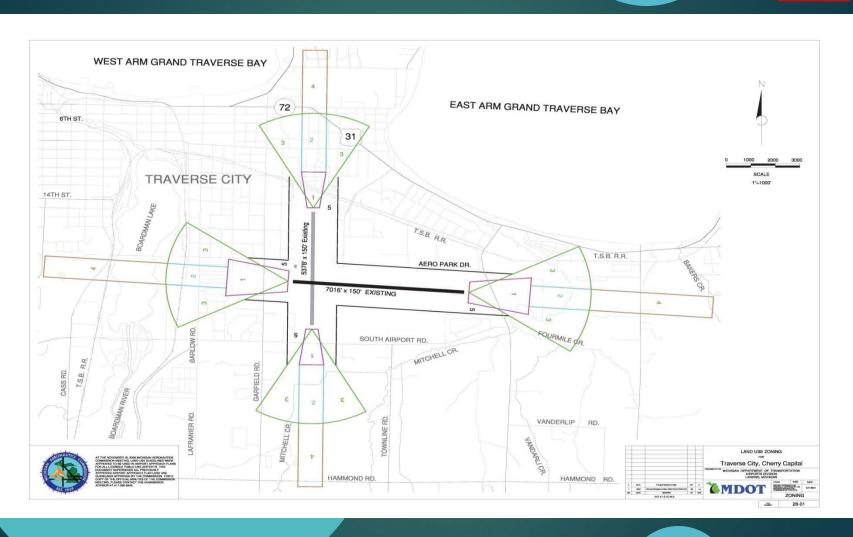
FAA Airport Inspection

- When an FAA Airport Inspector does an inspection at your airport, they provide you with an inspection report and an updated FAA 5010 Airport Master Record.
- They will provide comments about any deficiencies with meeting FAA standards.
- They are reporting Part 77 Obstruction Data on the Airport Master Record 5010 (lines 50-58) among other data updates. It's important for sponsors to review their inspection report and the 5010 in coordination with their current ALP.
- It's important to follow through in a timely manner with taking action on those obstructions identified that affect Part 77 Surfaces.

ALP Obstruction Tables & Approach Sheets

- The sponsor is required by grant assurances to maintain a current Airport Layout Plan (ALP).
- ALPs show runway surface obstruction tables. These tables show a proposed disposition (such as remove, lower, relocate, trim, DONH, etc.) for identified obstructions to Part 77 and TSS, if applied.
- The sponsor is responsible for evaluating their obstruction tables and taking timely action to follow through with the proposed disposition. A review of these tables will be done annually at the MAP meeting.
- If a Part 77 obstruction cannot be resolved or mitigated with the application of TSS, the sponsor may need to have further evaluation done through a FAA Aeronautical Study.
- Any identified obstruction to the TSS should be mitigated as soon as possible.
- ▶ The sponsor's ALP should be updated as these obstructions are resolved.

Michigan Approach Plan For TVC





Michigan Approach Plan For TVC

- Land Use Characteristics
- Land Use Guidelines
- Land Use Planning Strategies

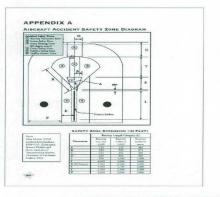
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LEASE COMPACT THE COMMISSION ADVISOR
1911-333-5000.

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AIRPORT APPROACH

MICHIGAN DEPARTMENT OF TRANSPORT

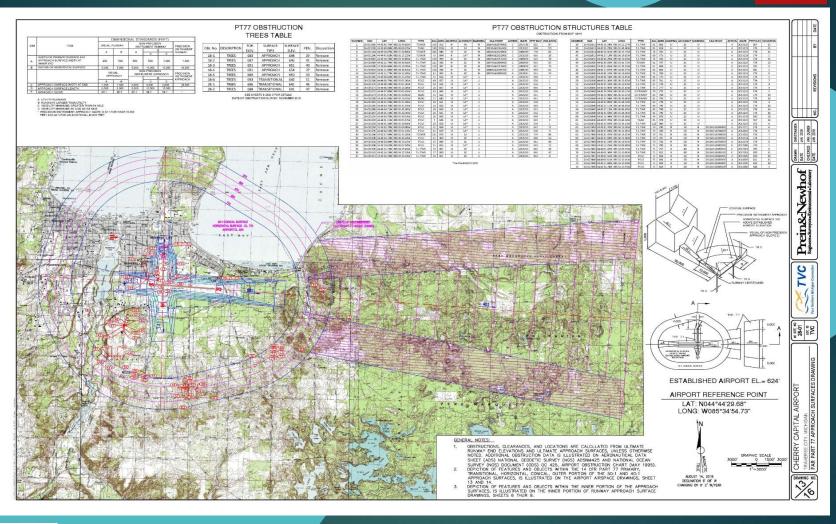
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Updated ALP Part 77 Obstruction Plan





Thank You

