



**BOYNE CITY
AIRPORT ADVISORY BOARD
MEETING**

Thursday, January 23, 2020 at 4:00 p.m.
Airport Terminal
Boyne City Municipal Airport
1040 E. Main Street

1. CALL TO ORDER & PLEDGE OF ALLEGIANCE
2. ROLL CALL
3. READING AND APPROVAL OF MINUTES
 - Approval of the October 24, 2019 minutes
4. CORRESPONDENCE
5. CITIZENS COMMENTS (non-agenda items)
6. REPORTS OF OFFICERS, BOARDS AND STANDING COMMITTEES
7. UNFINISHED BUSINESS
 - A. AWOS
 - B. Airport Goal Review
 - C. Landscape
 - D. Other
8. NEW BUSINESS
 - A. Trailhead Update
 - B. Approval of Commercial Use Permit for Leon Jarema
 - C. Northern Pump Service Contract
 - D. Airport Approach Plan
 - E. Michigan Airport Conference – February 19th & 20th
 - F. Other
9. GOOD OF THE ORDER
 - The fuel price decreased to \$4.33 per gallon on December 2, 2019
10. ANNOUNCEMENTS
 - The next regular Airport Advisory Board meeting is scheduled for Thursday, February 27, 2020.
11. ADJOURNMENT



Approved: _____

**MEETING OF
October 24th, 2019**

**RECORD OF THE PROCEEDINGS OF THE MEETING OF THE BOYNE
CITY AIRPORT ADVISORY BOARD** held October 24th, 2019.

CALL TO ORDER

Chair Richard Bouters called the meeting to order at 5:30 PM followed by the Pledge of Allegiance.

ROLL CALL

Present: Richard Bouters, Leon Vercruysee, Richard Wright, Doug Brubaker
Leon Jarema*, John Van Etten*

Absences: Brian Harrington (excused), Bud Chipman*, Rod Cortright*, Jerry Schmidt*, Allen Struza*

**Ex Officio Members*

Staff: Michael Cain – Airport/City Manager, Timothy Fass – Director -
Department of Public Works (DPW)

Citizens: None

**READING AND
APPROVAL OF
MINUTES**

Motion by Doug Brubaker, seconded by L. Vercruysee, to approve the
September 26th, 2019 minutes. Unanimously passed.

CORRESPONDENCE

None

**CITIZENS COMMENTS
(NON-AGENDA ITEMS)**

None

**REPORTS OF OFFICERS,
BOARDS AND STANDING
COMMITTEES**

None

UNFINISHED BUSINESS

DPW / City Support

Distance Remaining Signs – DPW Director Timothy Fass relayed his plan to complete the installation of the distance remaining signs with the frangible fittings required by Federal Aviation Regulations. The goal is to complete the installation before cold weather prohibits further sign work.

Non-Motorized Trail Update

Michael Cain informed the Board that trail construction is underway and the trail will be open for public use on June 11th, 2020. Additionally Mr. Cain stated that the trail poses no threat to air navigation.

Other

Snow Plowing

Discussion centered on user complaints of inadequate snow removal from hangar doors and aprons leading to taxiways. A proposal was put forth asking the City to consider plowing the aprons leading to and within one foot of the hangar door of City owned hangars. Michael Cain and Mr. Fass will study the proposal.

Mr. Fass asked the board what was the proper disposition of *FAA System Maintenance* emails received at his office. After a brief discussion the issue was resolved with an arrangement that Mr. Fass will forward all such emails to the City/Airport Manager for appropriate administrative actions.

City Fill Dirt Dumping

Richard Wright suggested using excess DPW deposited fill dirt dumped at the airport to level a major ground depression in the airport movement area. That low area is on the north side of the runway within the 125 foot clear zone from the runway centerline. Fass to discuss with his staff.

NEW BUSINESS

Election of Officers

The Board agreed 2019 officers will remain in place for calendar year 2020. Motion by Doug Brubaker, seconded by R. Wright, motion carried.

Approval of 2020 Meeting Calendar

The Board agreed to maintain the current meeting schedule (fourth Thursday of the month, at 5:30 PM in the airport terminal building, January - October) in 2020. Motion by Richard Wright, seconded by Brubaker, motion carried.

Assistance from the FAA to procure and maintain an AWOS System

Mr. Van Etten queried the Board about the feasibility of initiating a Board action to obtain Federal assistance acquiring and maintaining an Automated (aviation) Weather Observing System. Citing a major argument for the acquisition, Leon Jarema advised the Board that an official aviation weather reporting system must be installed *at that airport* for an aircraft to be dispatched to that airport under Federal Aviation Regulation (FAR), Part 135. FAR Part 135 operations are those on-demand, air charter flights.

Richard Wright restated that his previous research into and automated weather reporting system revealed an affordable system was available but fell short of the needs of Boyne City's airport on three counts:

1. The system did not report visibility
2. No ceiling height measurement
3. System not part of the National Aviation Weather Reporting System

Richard will continue his search focusing only on AWOS systems and report back to the board in January 2020.

Airport History

Richard Bouters pledged to take on a project following-up on citizen interest in the Boyne City Airport. Bouters provided the Board a copy of a Boyne City newspaper article from 1938 describing the airport origins. Richard will continue his research providing airport historical facts at future Airport Advisory Board meetings.

Other

Michael Cain informed the Board that Mr. John Cooper has offered to fund the purchase of and installation of a Precision Approach Path Indicating (PAPI) system at the approach end of runway 27.

GOOD OF THE ORDER

Boyne City Airport 100 Low Lead aviation fuel price increased to \$4.56 per gallon on October 14th, 2019.

Michael Cain complimented the Board for the good facelift work on the airport terminal grounds; "...it looks great...", and "...thanks for all the hard work..." Credit is primarily due to Board Member Allen Sturza and Boyne City Citizen Gow Litzenburger.

Michael Cain informed all present that currently all the Boyne City Airport hangars have tenants. The occupant of C-17 will vacate that hangar on November 15th, 2019.

ANNOUNCEMENTS

R. Bouters recently planned and executed a very successful FAA Safety Seminar on October 10th. The Seminar was conducted at the airport terminal with 12 pilot attendees. Recently acquired terminal multimedia presentation equipment enabled an automated, clear and appealing presentation.

The next regular Airport Advisory Board meeting is scheduled for Thursday, January 23rd, 2020 at 5:30 PM.

ADJOURNMENT

The meeting was adjourned at 6:45 P.M. by meeting chair, Richard Bouters.

Richard K. Wright
Boyne City Airport Advisory Board Secretary

NA



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KERBAWY DR

LAGOON ACCESS DR

LAGOON ACCESS DR

1102

Engineer's Opinion of Costs

Project Number: 7780-18-0010 Estimate Number: 5: BVT City Extension Project Type: Miscellaneous Location: Boyne Valley Trail Boyne City & Boyne Valley Township Description: Shared Use Path	Project Engineer: Lucas Porath Date Created: 1/16/2020 Date Edited: 1/17/2020 Fed/State #: Fed Item: Control Section:
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Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0001	3070008	Approach, CI I, 6 inch	15.000	Syd	\$9.98	\$149.70
0002	5010061	HMA Approach	2.000	Ton	\$175.00	\$350.00
0003	8030010	Detectable Warning Surface	20.000	Ft	\$32.00	\$640.00
0004	8030036	Sidewalk Ramp, Conc, 6 inch	200.000	Sft	\$4.40	\$880.00
0005	8060040	Shared use Path, HMA	89.000	Ton	\$97.75	\$8,699.75
0006	8067001	_ Shared Use Path, Grading, Special	720.000	Ft	\$5.00	\$3,600.00
0007	8067011	_ Shared Use Path, Aggregate, Special	960.000	Syd	\$6.50	\$6,240.00
0008	8100404	Sign, Type IIIA	5.000	Sft	\$14.50	\$72.50
0009	8100405	Sign, Type IIIB	8.000	Sft	\$15.00	\$120.00
0010	8107050	_ Trail Sign Post	2.000	Ea	\$85.00	\$170.00
0011	8110024	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	46.000	Ft	\$2.50	\$115.00
0012	8167011	_ Slope Restoration, Type A, Modified	800.000	Syd	\$1.88	\$1,504.00
Estimate Total:						\$22,540.95

PERMIT FOR COMMERCIAL USE
BOYNE CITY MUNICIPAL AIRPORT

paid
10/18/2019
[Signature]

DATE OF APPLICATION: 11-25-2019

DATE OF EXPIRATION: 11-24-2022

NAME: Leon Jarema

BUSINESS NAME:

PHONE: 231-881-1113

In conformance with City Ordinance #A-45, this permit is issued to the above named business for use of the Boyne City Municipal Airport as a base for commercial operations.

This permit is effective for three years from the date of issue, and is renewable following a review that indicates the operation is satisfactory to the City.

Approved by the Airport Advisory Board _____

CITY OF BOYNE CITY
CITY MANAGER

DATE

Northern Pump Service, Inc.
PO Box 192
Gaylord, Mi 49734

989-732-5252

DATE	INVOICE #
1/13/2020	26306

BILL TO
City of Boyne City Hall 319 N. Lake St. Boyne City, Mi 49712

P.O. NO.	WORK DATE	JOB SITE	TERMS
Mike		Airport	10 Days

ITEM	QTY	DESCRIPTION	RATE	AMOUNT
		REF: UST		
Class A	1	UST Owner Operator Class A Inspection	700.00	700.00
Class B	4	UST Owner Operator Class B Inspection	300.00	1,200.00
Mileage	4	Trips Annually	42.00	168.00
2020Rules		Any additional State Regulations that are added upon the adoption Rules for 2020, additional costs may occur.		

A 2% monthly finance charge will be assessed to all accounts past due.	Total	\$2,068.00
	Balance Due	\$2,068.00

Northern Pump Service, Inc. Contract for the Class A and or Class B

Northern Pump Service Inc, will provide services for Class A and or Class B inspections listed under the A & B Duties.

Duties include: Inspection of the following: Release Detection Equipment, Alarm History Report, Spill Containers, Dispenser Sumps, Tank Sumps, Overfill Protection, Monitoring Equipment. Verification Periodic Inspections of the UST systems have been completed, including documentation of the dates (ie. Impact/Fire Safety Valve, Mechanical Leak Detector, Annual Piping Testing, Corrosion Protection.)

The owner is responsible for the day to day operations and monthly State of Michigan regulatory requirements, weekly walkthrough inspections, alarm history log & monthly sensor history status. Contact proper authorities with any issues they may arise.

Any additional State Regulations or testing procedures of Spill Containers, Overfill Prevention Devices, and UST Piping Sumps required by LARA upon the adoption of the EPA's 2015 Underground Storage tank regulations will be performed in the Calendar year of 2020 on a time and material basis. NOTE: Contact your local LARA Inspector with any questions or concerns.

This contract can be terminated within 30 days by either party in writing for any reason.

This contract is valid for one year.

We, Northern Pump Service, Inc. have a signed contract with

(_____) for services required by the State of Michigan as a Class A and or Class B Operator.

Store Name _____

Store Number _____

Store Address _____

Signed

_____ Date _____

Signed

May Wilkerson Northern Pump Service, Inc

Dated 1-13-20



STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION
LANSING

GRETCHEN WHITMER
GOVERNOR

PAUL AJEGBA
DIRECTOR

January 7, 2020

Michael Cain, Airport Manager
Boyne City Municipal Airport
319 North Lake St
Boyne City, MI 49712



Dear Mr. Cain:

Subject: Airport Approach Plan - Revised
Boyne City Municipal Airport

To continually promote the compatible land use zone surrounding public use airports, we are once again providing you with the most current copy of your airport approach plan. These land use zoning guidelines and FAA Part 77 height protections approved by the Michigan Aeronautics Commission (MAC) are to be included as part of the Boyne City Municipal Airport Approach Plan. At its May 15, 2002, meeting the MAC officially approved an Airport Approach Plan for your airport. An amendment to zone 3 of the Land Use Guidelines portion of the plan was also approved by the MAC at its November 15, 2006 meeting. Please file a copy of this document with the appropriate agencies and/or municipalities.

The Airport Approach Plan consists of height protection for the FAA Part 77 surfaces surrounding the airport and land use protection using standards adopted by the MAC. The Aeronautic Code of the State of Michigan requires these plans, as well as a copy of your Airport Layout Plan (ALP), be filed with the local planning agencies and/or political subdivisions underlying the areas depicted on the plans. Once filed with the local planning agency, section 125.3203 of the Zoning Enabling Act, Act 110 of 2006 requires these plans be included in the community's Master Plan which should provide an additional level of protection for the airport.

Please notify our office with the enclosed form once you have filed your Airport Approach Plan with the appropriate agencies and/or municipalities. You may also send it to me electronically to the email address listed below.

If you have and questions regarding this matter, please contact me at telephone number 517-335-9282 or by email at badrak@michigan.gov.

Sincerely,

Kelly Badra Kelly Badra
Jan 7 2020 8:30 AM

Kelly Badra
Office of Aeronautics, Project Support Unit

Enclosures

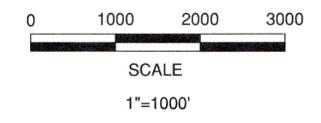
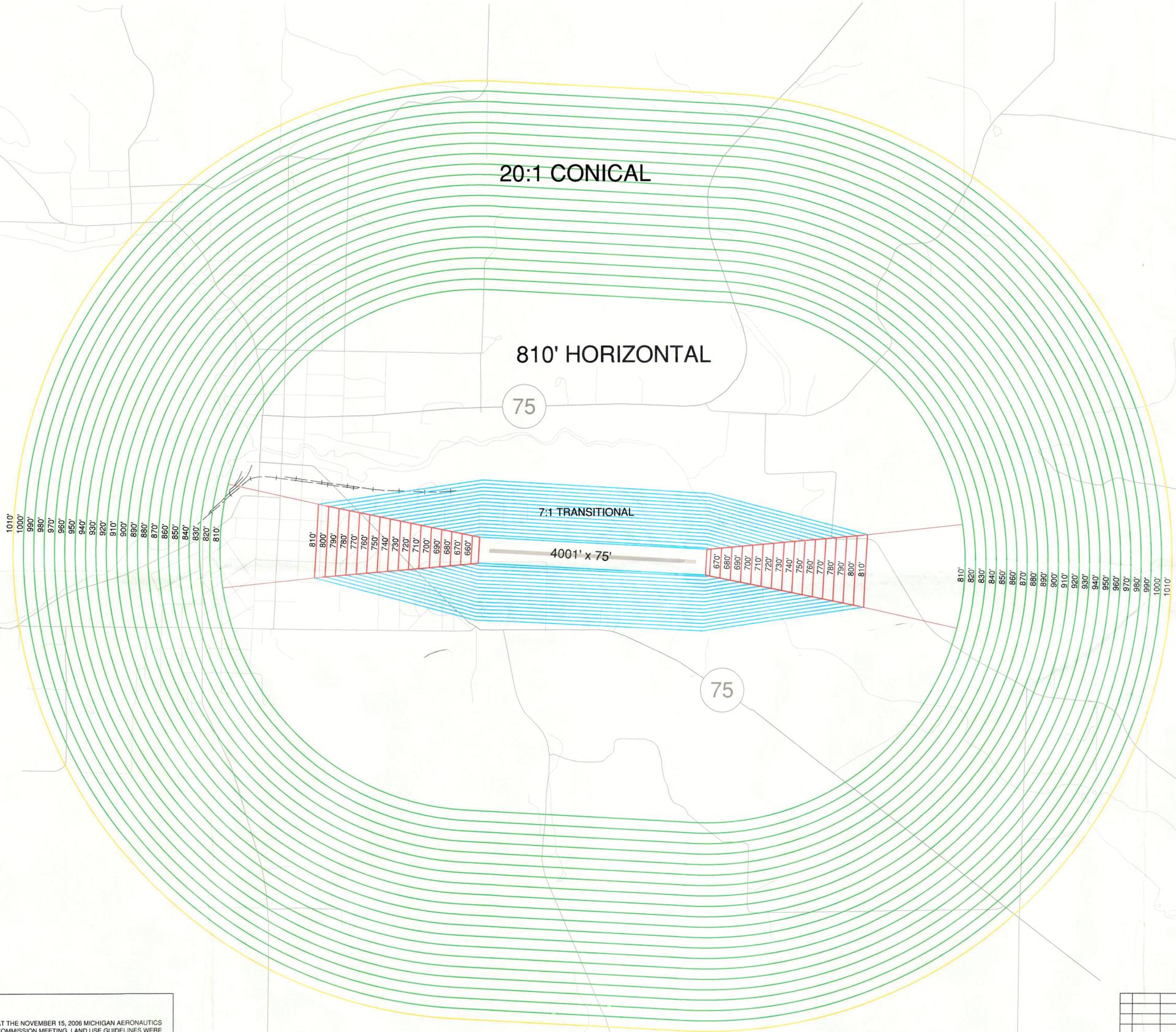
Notice of Airport Approach Plan Filing

The following agencies/municipalities were provided a copy of the Airport Approach Plan for the Boyne City Municipal Airport.

<u>Agency/Municipality</u>	<u>Date of Filing</u>	<u>Signature of Receiving Municipality Representative</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Signed,

Title of Airport Representative



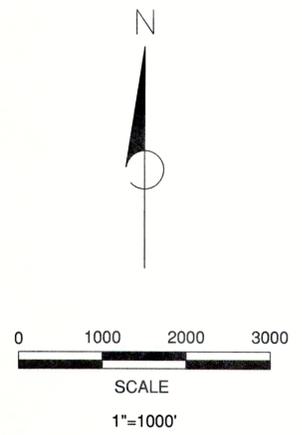
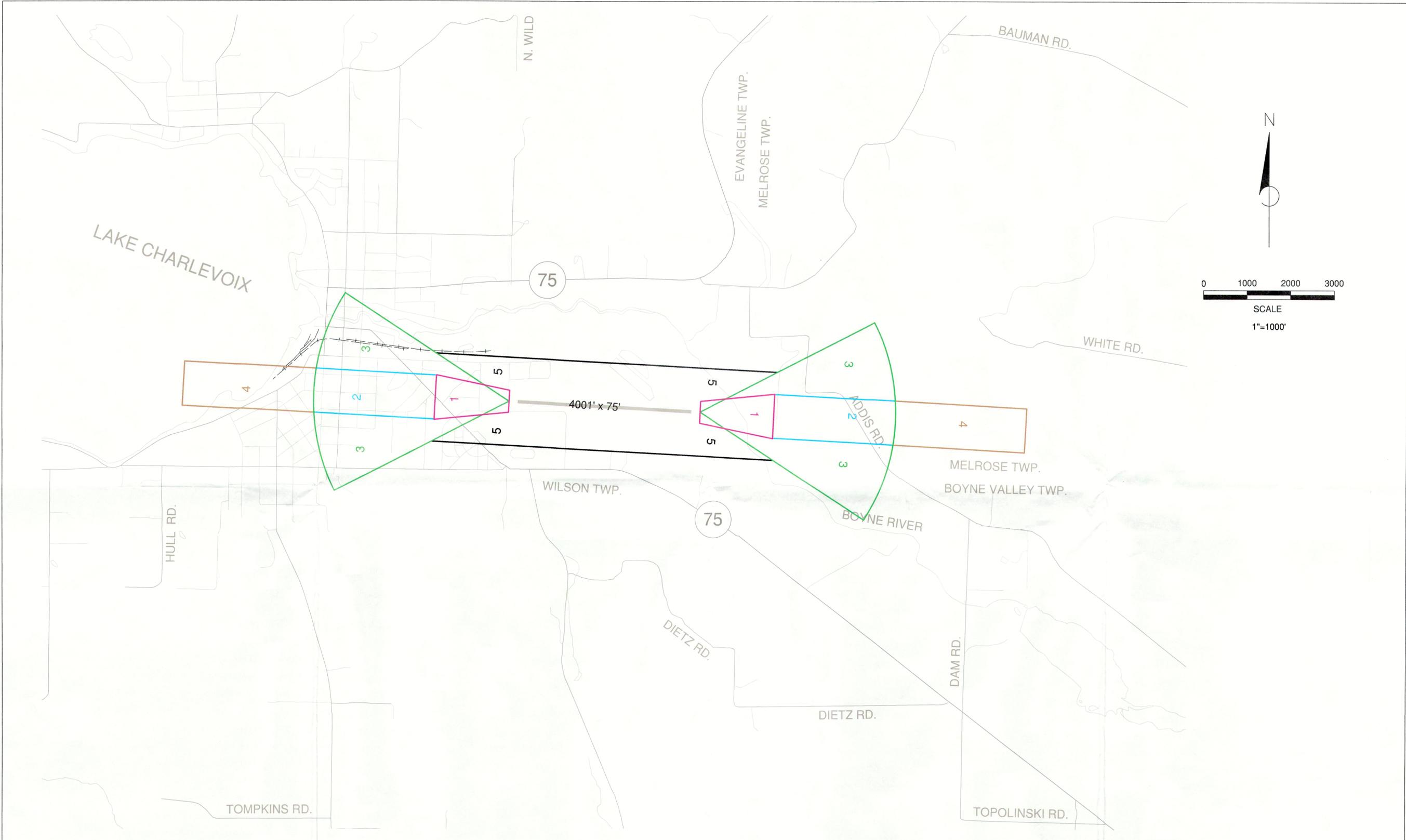
Boyne City Municipal
660' Airport Elevation



AT THE NOVEMBER 15, 2006 MICHIGAN AERONAUTICS COMMISSION MEETING, LAND USE GUIDELINES WERE APPROVED TO BE USED IN AIRPORT APPROACH PLANS FOR ALL LICENSED PUBLIC USE AIRPORTS. THIS DOCUMENT SUPERSEDES ALL PREVIOUSLY APPROVED AIRPORT APPROACH PLAN LAND USE GUIDELINES APPROVED BY THE COMMISSION. FOR A COPY OF THE OFFICIAL MINUTES OF THE COMMISSION MEETING, PLEASE CONTACT THE COMMISSION ADVISOR AT 517-335-9943.

NO.	DATE	REVISIONS	BY	CHK
1	10/19	Change Background Map, Added Current Elev. Note	EH	HH

FAA PART 77 FOR Boyne City, Boyne City Municipal			
MICHIGAN DEPARTMENT OF TRANSPORTATION OFFICE OF AERONAUTICS LANSING, MICHIGAN			
MDOT	DRWN	EH	10/19
	CHECKED	HH	10/19
	PLOTTED		
			ZONING



AT THE NOVEMBER 15, 2006 MICHIGAN AERONAUTICS COMMISSION MEETING, LAND USE GUIDELINES WERE APPROVED TO BE USED IN AIRPORT APPROACH PLANS FOR ALL LICENSED PUBLIC USE AIRPORTS. THIS DOCUMENT SUPERSEDES ALL PREVIOUSLY APPROVED AIRPORT APPROACH PLAN LAND USE GUIDELINES APPROVED BY THE COMMISSION. FOR A COPY OF THE OFFICIAL MINUTES OF THE COMMISSION MEETING, PLEASE CONTACT THE COMMISSION ADVISOR AT 517-335-9943.

NO.	DATE	REVISIONS	BY	CHK
1	10/19	Changed Background Map, Added Current Dist. Note	ETH	JF

LAND USE ZONING
FOR
Boyne City, Boyne City Municipal

PREPARED BY THE: MICHIGAN DEPARTMENT OF TRANSPORTATION
OFFICE OF AERONAUTICS
LANSING, MICHIGAN

DRAWN BY: ETH	DATE: 10/19
APPROVED BY: JF	DATE: 05/15/02

MDOT

ZONING

ACCIDENT SAFETY ZONES, LAND USE GUIDELINES AND PLANNING STRATEGIES FOR NEW DEVELOPMENT

Accident Safety Zone	Land Use Characteristics	Land Use Guidelines	Land Use Planning Strategies *All aviation uses are acceptable
Zone 1 (See Special Note)	Population Density	Avoid land uses which concentrate people indoors or outdoors.	1. 0-5 people/acre. 2. Airport sponsor should purchase property if possible. 3. Zone land uses, which by their nature, will be relatively unoccupied by people (i.e. mini-storage, small parking lots).
	Residential vs. Non-Residential Land Use	Prohibit all residential land uses. All non-residential land uses permitted outright subject to the Population Density and Special Function Land Use guidelines.	1. Create a height hazard overlay ordinance around the airport. 2. Airport sponsor should purchase property if possible. 3. Airport sponsor should obtain aviation and obstruction easements. 4. During the site development process, shift all structures away from the runway centerlines if possible. 5. Landscaping requirements shall establish only low growing vegetation. 6. Prohibit high overhead outdoor lighting. 7. Require downward shading of lighting to reduce glare. 8. Evaluate all possible permitted conditional uses to assure compatible land use.
	Special Function Land Use	Prohibit all Special Function Land Uses.	1. Prohibit overhead utilities and all noise sensitive land uses. 2. Zone land for uses other than for schools, play fields, hospitals, nursing homes, daycare facilities and churches. 3. Limit storage of large quantities of hazardous or flammable material. 4. Ensure permitted uses will not create large areas of standing water, or generate smoke/steam, etc.

Special Note: Since the dimensions of Zone 1 are similar to the dimensions of the Runway Protection Zone (RPZ), those airports receiving federal grant dollars from the FAA's Airport Improvement Program, should strongly consider purchasing the RPZ, or otherwise acquire rights to the property for the RPZ.

COMPATIBLE LAND USE MATRIX

Accident Safety Zone	Land Use Characteristics	Land Use Guidelines	Land Use Planning Strategies *All aviation uses are acceptable
Zone 2	Population Density	Avoid land uses which concentrate people indoors or outdoors.	1. 0-5 people/acre. 2. Zone land uses, which by their nature, will be relatively unoccupied by people (i.e. mini-storage, small parking lots).
	Residential vs. Non-Residential Land Use	Prohibit all residential land uses. All non-residential land uses permitted outright subject to the Population Density and Special Function Land Use guidelines.	1. Create a height hazard overlay ordinance around the airport. 2. Obtain aviation and obstruction easements. 3. During site development process, shift all structures away from the runway centerlines if possible. 4. Prohibit mobile home parks. 5. Landscaping requirements shall establish only low growing vegetation. 6. Prohibit high overhead outdoor lighting. 7. Require downward shading of lighting to reduce glare. 8. Evaluate all possible permitted conditional uses to assure compatible land use.
	Special Function Land Use	Prohibit all Special Function Land Uses.	1. Prohibit overhead utilities and all noise sensitive land uses. 2. Zone land for uses other than for schools, play fields, hospitals, nursing homes, daycare facilities and churches. 3. Limit storage of large quantities of hazardous or flammable material. 4. Ensure permitted uses will not create large areas of standing water, or generate smoke/steam, etc.

COMPATIBLE LAND USE MATRIX

Accident Safety Zone	Land Use Characteristics	Land Use Guidelines	Land Use Planning Strategies *All aviation uses are acceptable
Zone 3	Population Density	Avoid land uses which concentrate people indoors or outdoors.	1. < 25 people/acre. 2. Zone land uses, which by their nature, will be relatively unoccupied by people (i.e. mini-storage, small parking lots).
	Residential vs. Non-Residential Land Use	Limit residential development to Low Density housing standards. All non-residential land uses permitted outright subject to the Special Function Land Use guidelines.	1. Create a height hazard overlay ordinance around the airport. 2. Obtain aviation and obstruction easements. 3. During site development process, shift all structures away from the runway centerlines if possible. 4. Prohibit mobile home parks. 5. Landscaping requirements shall establish only low growing vegetation. 6. Prohibit high overhead outdoor lighting. 7. Require downward shading of lighting to reduce glare. 8. Evaluate all possible permitted conditional uses to assure compatible land use.
	Special Function Land Use	Prohibit all Special Function Land Uses.	1. Prohibit overhead utilities and all noise sensitive land uses. 2. Zone land for uses other than for schools, play fields, hospitals, nursing homes, daycare facilities and churches. 3. Limit storage of large quantities of hazardous or flammable material. 4. Ensure permitted uses will not create large areas of standing water, or generate smoke/steam, etc.

COMPATIBLE LAND USE MATRIX

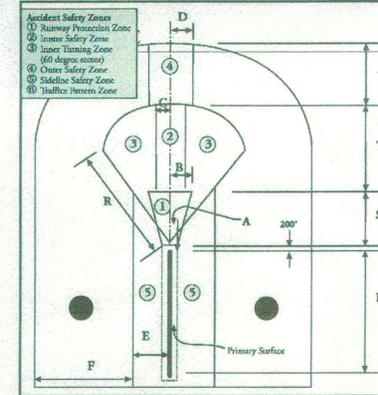
Accident Safety Zone	Land Use Characteristics	Land Use Guidelines	Land Use Planning Strategies *All aviation uses are acceptable
Zone 4	Population Density	Limit population concentrations.	1. < 40 people/acre in buildings, < 75 persons/acre outside buildings.
	Residential vs. Non-Residential Land Use	Limit residential development to Low Density housing standards. All non-residential land uses permitted outright subject to the Special Function Land Use guidelines.	1. Create a height hazard overlay ordinance around the airport. 2. Obtain aviation easements. 3. Clustered development to maintain density as long as open space remains unbuilt. Place clustered development away from extended runway centerlines. 4. Prohibit mobile home parks. 5. Require downward shading of lighting to reduce glare. 6. Evaluate all possible permitted conditional uses to assure compatible land use.
	Special Function Land Use	Prohibit all Special Function Land Uses.	1. Evaluate noise sensitive land uses in light of aircraft noise contour lines (if available) when establishing new zoning. 2. Prohibit high overhead utilities and all noise sensitive land uses. 3. Zone land for uses other than for schools, play fields, hospitals, nursing homes, daycare facilities and churches. 4. Limit storage of large quantities of hazardous or flammable material. 5. Ensure permitted uses will not create large areas of standing water, or generate smoke/steam, etc.

COMPATIBLE LAND USE MATRIX

Accident Safety Zone	Land Use Characteristics	Land Use Guidelines	Land Use Planning Strategies *All aviation uses are acceptable
Zone 5	Population Density	Avoid land uses which concentrate people indoors or outdoors.	1. 0-5 people/acre. 2. Zone land uses, which by their nature, will be relatively unoccupied by people (i.e. mini-storage, small parking lots).
	Residential vs. Non-Residential Land Use	Prohibit all residential land uses. All non-residential land uses permitted outright subject to the Population Density and Special Function Land Use guidelines.	1. Airport sponsor should purchase property if possible. 2. Create a height hazard overlay ordinance around the airport. 3. Obtain aviation and obstruction easements. 4. During site development process, shift all structures away from the runway centerlines if possible. 5. Landscaping requirements shall establish only low growing vegetation. 6. Prohibit high overhead outdoor lighting. 7. Require downward shading of lighting to reduce glare. 8. Evaluate all possible permitted conditional uses to assure compatible land use.
	Special Function Land Use	Prohibit all Special Function Land Uses.	1. Prohibit overhead utilities and all noise sensitive land uses. 2. Zone land for uses other than for schools, play fields, hospitals, nursing homes, daycare facilities and churches. 3. Limit storage of large quantities of hazardous or flammable material. 4. Ensure permitted uses will not create large areas of standing water, or generate smoke/steam, etc.

APPENDIX A

AIRCRAFT ACCIDENT SAFETY ZONE DIAGRAM



SAFETY ZONE DIMENSION (IN FEET)

Dimension	Runway Length Category (L)		
	Runway less than 4,000	Runway 4,000 to 5,999	Runway 6,000 or more
A	125	250	300
B	225	305	375
C	225	300	300
D	225	500	500
E	500	1,000	1,000
F	4,000	5,000	5,000
R (90°Sector)	2,500	4,500	5,000
S	1,200	1,700	2,300
T	1,500	2,800	2,500
U	2,500	5,000	5,000

Note:
Data Source: NTSB accident investigations 1984-1991. Illustration Source: Hojager and Shan, Institute of Transportation Studies, University of California Berkeley 1993.



AT THE SEPTEMBER 16, 2009 MICHIGAN AERONAUTICS COMMISSION MEETING, THESE LAND USE GUIDELINES WERE AMENDED AND APPROVED TO BE USED IN AIRPORT APPROACH PLANS FOR ALL LICENSED PUBLIC USE AIRPORTS. THIS DOCUMENT AMENDS ALL PREVIOUSLY APPROVED AIRPORT APPROACH PLAN LAND USE GUIDELINES APPROVED BY THE COMMISSION. FOR A COPY OF THE OFFICIAL MINUTES OF THE COMMISSION MEETING, PLEASE CONTACT THE COMMISSION ADVISOR AT 517-335-9568.

ANY AIRPORT SPONSOR OR DULY AUTHORIZED REPRESENTATIVE OF A ZONED LOCAL GOVERNMENTAL UNIT MAY REQUEST THAT THE MICHIGAN AERONAUTICS COMMISSION AMEND AN AIRPORT APPROACH PLAN. ALL SUCH REQUESTS MUST CLEARLY STATE THE CHANGE FROM THE CURRENT PLAN, THE REASON FOR THE REQUESTED CHANGE AND ANY STANDARDS USED TO JUSTIFY THE MODIFICATION. PLEASE CONTACT THE AIRPORTS DIVISION ZONING SPECIALIST TO REQUEST ANY SUCH AMENDMENTS.



NO.	DATE	REVISIONS	BY	CHK
E	11/20/09	CHANGED SPECIAL NOTE	LPS	JH
D	10/30/09	ADDED MODIFICATION NOTE	LPS	JH
C	08/03/09	ZONE 3 MODIFICATIONS, TITLE CHANGE	LPS	JH
B	4/16/02	Delete Zone 6	NAB	
A	01/10/02	New guidelines / strategies	NAB	

LAND USE GUIDELINES FOR STATE OF MICHIGAN AIRPORT APPROACH PLANS

MICHIGAN DEPARTMENT OF TRANSPORTATION AIRPORTS DIVISION LANSING, MICHIGAN

APPROVED

Rick Howard 11/23/09
AIRPORTS DIVISION ADMINISTRATOR DATE

DRAWN NAB 8/03
CHECKED
PLOTTED

September 26, 2000

Michigan Department of Transportation
Bureau of Aeronautics
2700 East Airport Service Drive
Lansing, Michigan 48906-2171

Attention: Mr. Ron Lebbon

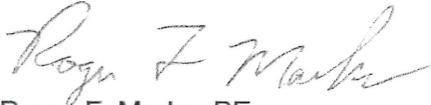
Re: Boyne City Municipal Airport
Airport Layout Plan

Dear Mr. Lebbon:

Please find enclosed one original mylar of the Airport Layout Plan sheets for the above referenced project. If you have any questions or need more information, please call.

Very truly yours,

WADE-TRIM, INC.



Roger F. Marks, PE

RFM:dvm

BOY 3009-01C

\\Cadillac\projects\BOY3009\01C\WP\LETTERS\ aero alp 2.doc

Enclosures

cc: Mr. Eric Strahl (City of Boyne City)
Mr. Gerald Trout
Mr. Gary Johnson



STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION

BUREAU OF AERONAUTICS
LANSING, MICHIGAN



BOYNE CITY MUNICIPAL AIRPORT
BOYNE CITY, MICHIGAN
AIRPORT LAYOUT PLAN



LOCATION MAP

RUNWAY AND APPROACH DATA	
RUNWAY	9-27 FUTURE
RUNWAY LENGTH	4000 FT
RUNWAY WIDTH	75 FT
SURFACE TYPE	BITUMINOUS
PAVEMENT LENGTH	1750 FT
RUNWAY LIGHTING	MID-SIDE
MARKS	NONE
CURTAIN AIRCRAFT	DE-101 SUPPLE. KNOB AIR
AIRPORT REFERENCE CODE	0
RUNWAY END COORDINATES	E1890538.14 N890302.32 E18952385.87 E189562378.89

AIRPORT DATA TABLE			
COUNTY	CHARLEVOIX	TOWNSHIP	EVANGELINE
NEARBY TOWNSHIP	72.04	R-17	UNDEVELOPED
AIRPORT REFERENCE POINT (LAT)	42°19'31.61"	LONG	84°50'23.61"
AIRPORT ELEVATION	65	GENERAL DUTY	
AIRPORT ROLE		GENERAL DUTY	
APPROACH CATEGORY	0		
DESIGN GROUP	1		
STEWART LEVEL		GENERAL AVIATION	

BOYNE CITY AERONAUTICS BOARD

APPROVED _____ DATE _____
CHAIRMAN

APPROVED _____ DATE _____
AIRPORT MANAGER

MICHIGAN AERONAUTICS COMMISSION

APPROVED _____ DATE _____
DIRECTOR

APPROVED _____ DATE _____
CHIEF ENGINEER

REVISION BLOCK		
REF	DATE	REVISION
1	10/27/98	ORIGINAL ISSUE
2	9/22/00	REVISED

ALP CHECKLIST CERTIFICATION FOR AIRSPACE REVIEW

ON BEHALF OF WADE-TRIM, INC. I CERTIFY THAT THE ALP PREPARED FOR THE BOYNE CITY MUNICIPAL AIRPORT WAS PREPARED ACCORDING TO THE MICHIGAN ALP CHECKLIST AND ACCURATELY DEPICTS THE PROPOSED USE OF AIRSPACE.

CERTIFIED BY: *Robert F. Marks* 9/27/00
ROBERT F. MARKS, P.E. DATE

DESIGNERS - CONSULTANTS

Wade-Trim Inc.

7800 Woodbine Trail
Cedarville, MI 49501
616-775-9754 FAX: 616-775-1771

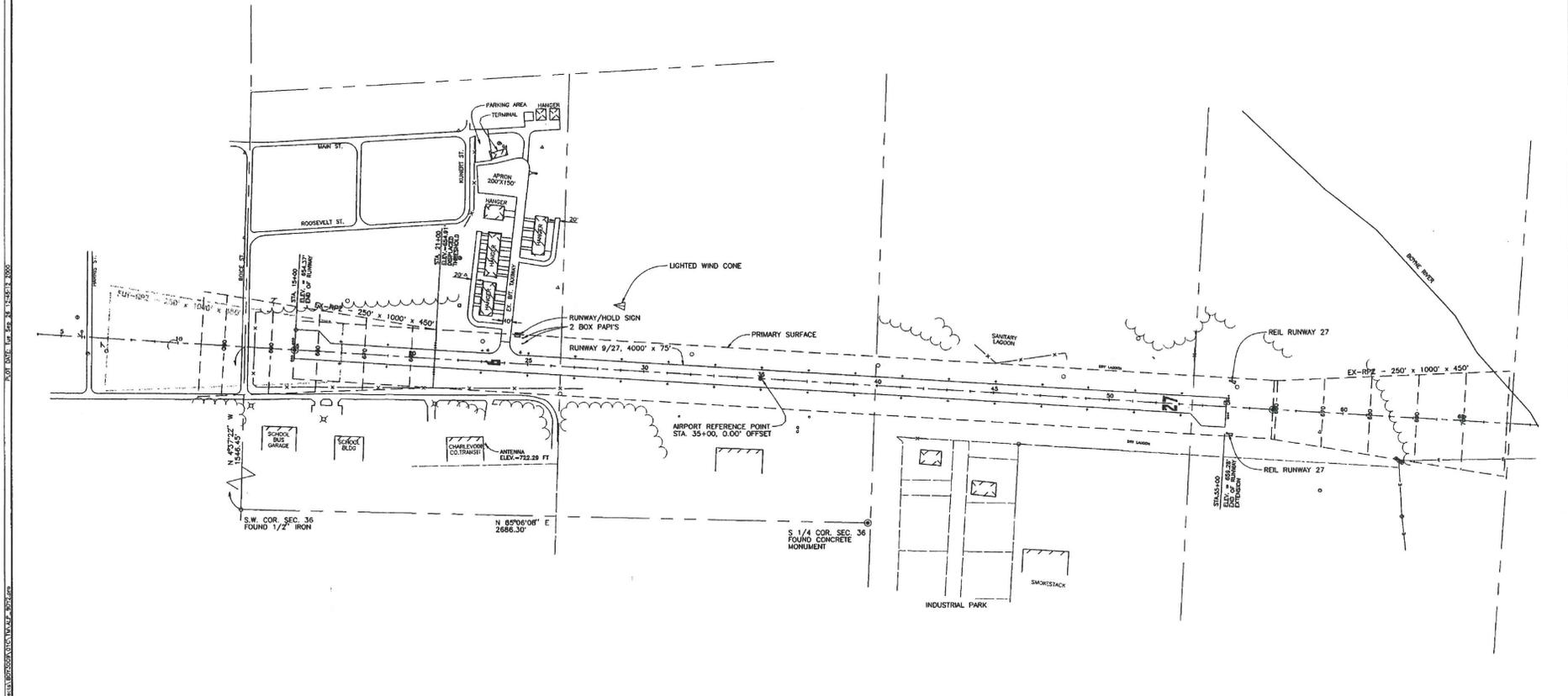
APPROVED BY: SCOTT G. THOMPSON, P.E., P.S. DATE _____

3	RUNWAY 09-27 APPROACH PLAN AND PROFILE	
2	AIRPORT LAYOUT PLAN	
1	TITLE SHEET	
SHEET NUMBER	INDEX OF SHEETS	LATEST REVISION DATE

AIRPORT SITE NO. _____

NOTES:
 THE RUNWAY VISIBILITY ZONE (LINE OF SIGHT) EXTENDS
 THE ENTIRE LENGTH OF RUNWAY 9/27.

LEGEND		
EXISTING	FUTURE	ITEM
---	---	AIRPORT PROPERTY LINE
---	---	SECTION LINE
---	---	AVIGATION EASEMENT LINE
---	---	CENTERLINE
---	---	PAVEMENT
---	---	RUNWAY PROTECTION ZONE
---	---	POWER & TELEPHONE LINE
---	---	FENCE
---	---	SURFACE DRAINAGE
[Symbol]	[Symbol]	BUILDINGS
[Symbol]	[Symbol]	BUILDINGS TO BE REMOVED
[Symbol]	[Symbol]	SECTION CORNERS
[Symbol]	[Symbol]	1/4 CORNERS
[Symbol]	[Symbol]	TREE LINE



REVISION	DATE	BY	CHKD	DESCRIPTION
1	10/27/98	WTR	WTR	ORIGINAL ISSUE
2	9/22/99	WTR	WTR	REVISED

BOYNE CITY MUNICIPAL AIRPORT



Wade-Trim Inc.

7985 Mackinac Trail
 Cadillac, MI 49601
 616-775-9754 FAX: 616-775-0711

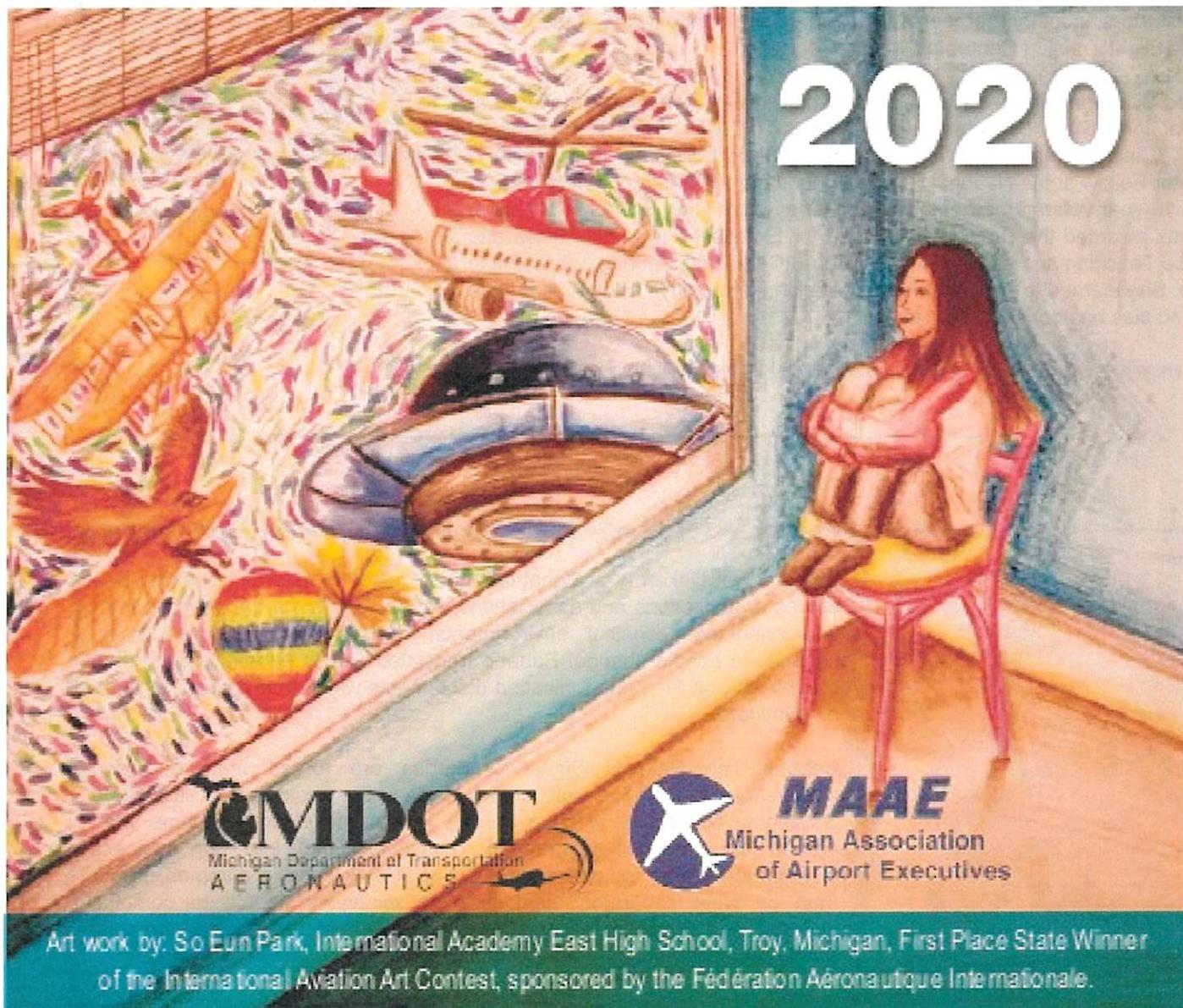
AIRPORT LAYOUT PLAN

SCALE	1" = 200' HORIZ. 1" = 10' VERT.
SHEET	2 of 3
DATE	21-5-36
NO.	BOY3009-01C

MICHIGAN AIRPORT CONFERENCE

Wednesday Feb. 19 and Thursday Feb. 20, 2020

Kellogg Hotel and Conference Center • East Lansing, MI



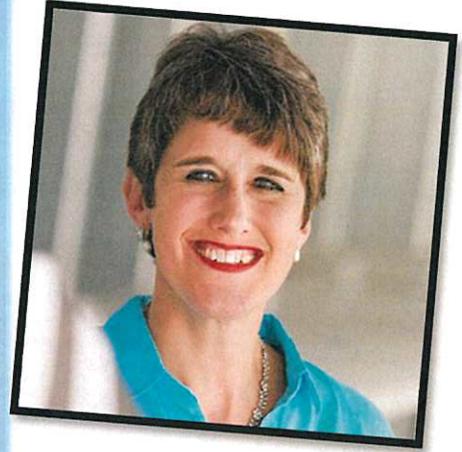
Art work by: So Eun Park, International Academy East High School, Troy, Michigan, First Place State Winner of the International Aviation Art Contest, sponsored by the Fédération Aéronautique Internationale.

Co-sponsored by: Michigan Association of Airport Executives (MAAE) and Michigan Department of Transportation • Office of Aeronautics (MDOT-Aero)

keynote speakers

Cindy Hasselbring currently leads STEM Education at the White House Office of Science and Technology Policy serving as Senior Policy Advisor and Assistant Director. Previously, she was the Senior Director for AOPA's High School Aviation Initiative and led efforts to build a four-year aviation STEM curriculum to inspire more students to enter careers in aviation and aerospace. In addition, she developed and planned AOPA's annual High School Aviation STEM Symposium, which most recently hosted more than 350 educators, administrators, industry representatives and government officials at the United Airlines Flight Training Center in Denver, Colorado.

She led STEM initiatives as Special Assistant to the State Superintendent at the Maryland State Department of Education (MSDE). Prior to working at MSDE, Cindy completed two years as an Albert Einstein Distinguished Educator Fellow at the National Science Foundation in Arlington, Virginia. She was a 16-year veteran mathematics teacher at Milan High School in Michigan and was awarded the Presidential Award for Excellence in Mathematics and Science Teaching and earned National Board Certification during her teaching tenure. She learned to fly in Ann Arbor, Michigan and enjoys flying as a private pilot and also has her seaplane rating.



Cindy Hasselbring



Babete Ten Haken

Babete Ten Haken is a Signature Storyteller of Workforce Legends. She serves organizations and associations, wrestling with the impact of today's interconnected technical environments, on workforce and leadership capacity to handle change. Babete translates across people, professional disciplines and the communication disconnects which marginalize, exclude or intimidate.

Babete Ten Haken's Signature Stories are forged from her own experiences as a STEM professional, Voice of the Customer Facilitator and Six Sigma Green Belt working on new product development teams, right around the time the Internet of Things exploded into our business environments. She focuses people on what they have in common, rather than on what separates them. Babete motivates people to combine courage and critical thinking skills to create trust, one of the greatest employee - and human - experiences of all.

Babete is a member of SME, ASQ, SHRM and the National Speakers Association, where she serves on the Michigan Chapter Board of Directors. She graduated with dual degrees from both Washington University, St. Louis, Missouri, USA and University College, University of London, UK.

conference agenda

Wednesday, February 19

- 7:30 - 8:30 **Continental Breakfast**
- 8:30 - 8:45 **Welcome**
- 8:45 - 9:00 **Office of Aeronautics Update**
- 9:00 - 9:15 **Federal Aviation Administration Update**
Rebecca McPherson, Regional Administrator, FAA Great Lakes Region
John Mayfield, Manager, FAA Detroit Airports District Office
- 9:15 - 10:15 **Utilizing Aviation to Build Students' Capacity in STEM**
Cindy Hasselbring, Assistant Director, STEM Education,
White House Office of Science and Technology Policy
- 10:15 - 10:45 **Break with Exhibitors**
- 10:45 - 11:45 **Moving the Needle - Success Stories of Aviation Education Programs Across the State**
Dr. Brian Smith, President, Tuskegee Airman National Museum; Aeronautics Commissioner
Kelly Burris & Rick Fiddler, West Michigan Aviation Academy; Aeronautics Commissioners
Rob Bunday, Chief Instructor and Director of Flight Operations, Western Michigan University
- 12:00 - 1:30 **Lunch & Keynote Speaker**
Build Trust - Babette Ten Haken, STEM Professional; Director of Strategic Planning,
Michigan Chapter of the National Speakers Association
- 1:30 - 2:30 **We All Have Obstructions, but Good Data Is Not One**
Refresh your understanding of airport zoning, compatible land use, and obstruction
mitigations and the new tools MDOT is employing to help make better decisions.
Linn Smith, Jennifer Forbes, Zach Tecson, and Lena Smith, MDOT Office of Aeronautics
- 2:30 - 3:00 Break with Exhibitors
- 3:00 - 4:30 Roundtables (Air Carrier & General Aviation)
- 4:30 - 5:30 Reception with Exhibitors

Thursday, February 20

- 8:00 - 9:00 **Continental Breakfast**
- 8:30 - 9:00 **MAAE General Membership Meeting**
- 9:00 - 9:45 **Airport Maintenance on a Budget**
Learn what innovative maintenance and electrical projects have been completed around the state
Jim Morency, Manager, Canton-Plymouth-Mettetal Airport
- 9:45 - 10:30 **Facilitating GRRrowth Under Construction – A Grand Rapids Terminal Apron Case Study**
Greg Fehrman, Professional Engineer, C & S Companies
Casey Ries, Professional Engineer, Gerald R. Ford International Airport Authority
- 10:30 - 11:00 **Final Break with Exhibitors**
- 11:00 - 12:00 **Planning for the Future**
- 12:00 - 1:30 **Awards Luncheon**

general information

registration & discounted registration fees

All conference participants including attendees, speakers, exhibitors, and award recipients are required to register for the conference through the MAAE website. You can save on your registration by being an MAAE member and by registering at the early bird rate prior to February 1, 2020. **ALL REGISTRATIONS MUST BE DONE ONLINE** at www.michairports.org.

professional development financial assistance

You must be employed by an airport or board member in the state of Michigan at the time the assistance is requested. FAA Part 139 Airports are not eligible. The intent of this assistance is to encourage increased attendance of the small and rural aviation airport personnel, giving them the ability to gain from the training programs provided at the MAAE Conference. There is a 2-person limit per airport.

hotel accommodations

The Kellogg Hotel and Convention Center (800-875-5090) has reserved a block of rooms at a group rate of \$118 per double room (plus applicable taxes). To qualify for this rate, you must mention you are attending the Michigan Airport Conference, group code 2002AIRPOR. The hotel will guarantee this rate through January 24, 2020. For online reservations, please visit: www.kelloggcenter.com

vendor information

When registering, exhibitors may select up to 3 booth choices, layout is subject to change. Booths are assigned in the order of registration. Please submit one registration form per person attending the event. The registration fee includes an 8-foot by 10-foot booth with pipe and drape, a skirted table, two chairs, all conference sessions and materials, meals, and breaks. For special arrangements, please contact the hotel directly at 517-432-4000.

payment

Payment should be made through the website during registration, however, checks can be mailed in after website registration is completed.

conference fees

Full conference registration includes admission to all sessions, vendor exhibits, annual business meeting, and the awards lunch. All fees are listed on the conference information page of our website.

Kellogg Hotel and Conference Center
219 South Harrison Road
East Lansing, Michigan, 48824

refunds/cancellations

MAAE will refund your registration fee, less a \$75 processing fee per person, for cancellations received in writing by February 1, 2020. No refunds will be granted after that date. Substitutions may be made at any time (the difference between a member and non-member price will be charged if a non-member replaces a member).



Sponsor Opportunities!

Platinum- \$2,000 * Gold - \$1,500 * Silver - \$1,000 * Bronze - \$500

Giveaways are also welcome for our lunch drawings!