



REPORT TO CITY PLAN COMMISSION

Plan Commission Informal Public Hearing Date: July 11, 2017

Common Council Public Hearing Date: August 2, 2017

Item: Zoning Ordinance Text and Map Amendment – Floodplain Zoning relating to Section 23-206(b) Official Maps and Revisions and Flood Insurance Rate Map Panel Number 55087C0336D

Case Manager: Don Harp

STAFF ANALYSIS

Background: The City has received notification from the Federal Emergency Management Agency (FEMA) that Flood Insurance Rate Map (FIRM) Panel No. 55087C0336D (see attached) was revised and will go into effect September 29, 2017 by Letter of Map Revision (LOMR). The revisions to this panel were based on additional study information prior to the approval of the Pond View Estates development project located on the south side of East Glenhurst Lane. The study area includes the AAL Tributary - from just downstream of Lighting Drive to approximately 200 feet upstream of East Glenhurst Lane.

The flood study found the AAL Tributary had land not mapped as being within special flood hazard areas such as Regulatory Floodway and Base Flood Plain Elevations (*The base flood plain elevation is commonly referred to as a 100-year flood, which is also the same as the 1% annual change flood*) that should be but were not identified on the current FIRM panel issued by FEMA.

Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, the City is required to adopt and enforce the new FIRM Panel No. 55087C0336D and provide evidence that its floodplain ordinance meets the standards of Paragraph 60.3(d) in the National Flood Insurance Program (NFIP) before September 29, 2017. The attached Ordinance revisions and FIRM Panel will accomplish this FEMA directive.

PROPOSED ZONING ORDINANCE TEXT AMENDMENTS

The text recommended to be added is underlined.

ARTICLE X. FLOODPLAIN ZONING

DIVISION 1. STATUTORY AUTHORIZATION, FINDING OF FACT, STATEMENT OF PURPOSE, TITLE AND GENERAL PROVISIONS.

Sec. 23-206. General provisions.

(b) *Official maps and revisions.* The boundaries of all floodplain districts are designated as floodplains or A-Zones on the maps listed below and the revisions in the City of Appleton Floodplain Appendix. Any change to the base flood elevations (BFE) in the Flood Insurance Study (FIS) or on the Flood Insurance Rate Map (FIRM) must be reviewed and approved by the DNR and FEMA before it is effective. No changes to regional flood elevations (RFE's) on non-FEMA maps shall be effective until approved by the DNR. These maps and revisions are on file in the office of the Division of Inspections of the Department of Public Works for the City of Appleton. If more than one map or revision is referenced, the most restrictive information shall apply.

(1) *Official maps based on the FIS:*

- a. Calumet County Flood Insurance Rate Map (FIRM), panel numbers 55015C0007E, 55015C0026E and 55015C0027E dated February 4, 2009; with corresponding profiles that are based on the Calumet County Flood Insurance Study (FIS), dated February 2009, volume number 55015CV000A.
- b. Outagamie County Flood Insurance Rate Map (FIRM) panel numbers 55087C0304E, and 55087C0308E dated January 20, 2016; with corresponding profiles that are based on the Flood Insurance Study (FIS) dated January 20, 2016, volume number 55087CV000B.
- c. Outagamie County Flood Insurance Rate Map (FIRM) panel numbers 55087C0309D, 55087C0314D, 55087C0316D, 55087C0317D, 55087C0318D, 55087C0319D, 55087C0330, 55087C0338D, 55087C0427D, 55087C0431D and 55087C451D dated July 22, 2010; with corresponding profiles that are based on the Outagamie County Flood Insurance Study (FIS) dated July 22, 2010 volume number 55087CV000A.
- d. Outagamie County Flood Insurance Rate Map (FIRM) panel numbers 55087C0328D, 55087C0329D, 55087C0336D, 55087C0337D dated July 22, 2010 and revised August 23, 2013 with corresponding profiles that are based on the Outagamie County Flood Insurance Study (FIS) dated July 22, 2010 volume number 55087CV000A, all revised and annotated pursuant to FEMA Letter of Map Revision Determination Document Case No: 12-05-6032P, Issue Date April 10, 2013, Effective Date August 23, 2013.

- e. LOMR – Case #11-05-7670P, Floodway and Floodplain revisions between Flood Insurance Study (FIS) Cross Section AW to BA, Outagamie County Flood Insurance Rate Map (FIRM) panels 55087C0318D and 55087C0319D, dated July 22, 2010. This reflects changes on the Fox River from just downstream of the Private Middle Dam to approximately 250 feet upstream of the Appleton Upper Dam.
- f. LOMR – Case #13-05-7920P, Floodplain revisions between Flood Insurance Study (FIS) Cross Section AN to AM, Outagamie County Flood Insurance Rate panels 55087C0319D, dated July 22, 2010. This reflects changes along the south side of the Fox River from the College Avenue Bridge to approximately 850 feet downstream.
- g. City of Appleton Kensington Pond Dam Break Analysis Hydraulic Shadow, Per Figure F-9 of Dam Failure Analysis and Assignment of the Hazard Rating for Kensington Pond Dam, by Earth Tech, dated January 2008, on file with City of Appleton Department of Public Works.
- h. LOMR – Case #17-05-1963P. Floodplain revisions on Outagamie County Flood Insurance Study (FIS) AAL Tributary Cross Section C, Outagamie County Flood Insurance Rate Map (FIRM) panel 55087C0336D, effective September 29, 2017. This reflects changes along the AAL Tributary from just downstream of Lightning Drive to approximately 200 feet upstream of East Glenhurst Lane.

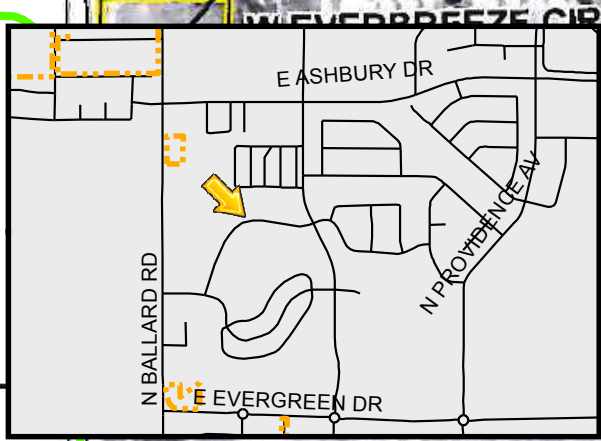
Proposed Amendment to Flood Insurance Rate Map Panel Number 55087C0336D:

See attached maps.

Technical Review Group Report (TRG): This item was reviewed at the June 20, 2017 Technical Review Group meeting. No negative comments were received from participating departments.

RECOMMENDATION PENDING INFORMAL PUBLIC HEARING TESTIMONY:

The proposed text and map amendments to Article X Floodplain Zoning of Chapter 23 of the Municipal Code, Section 23-206 (b) (1) h. Official maps and revisions, as identified in this staff report, **BE APPROVED.**



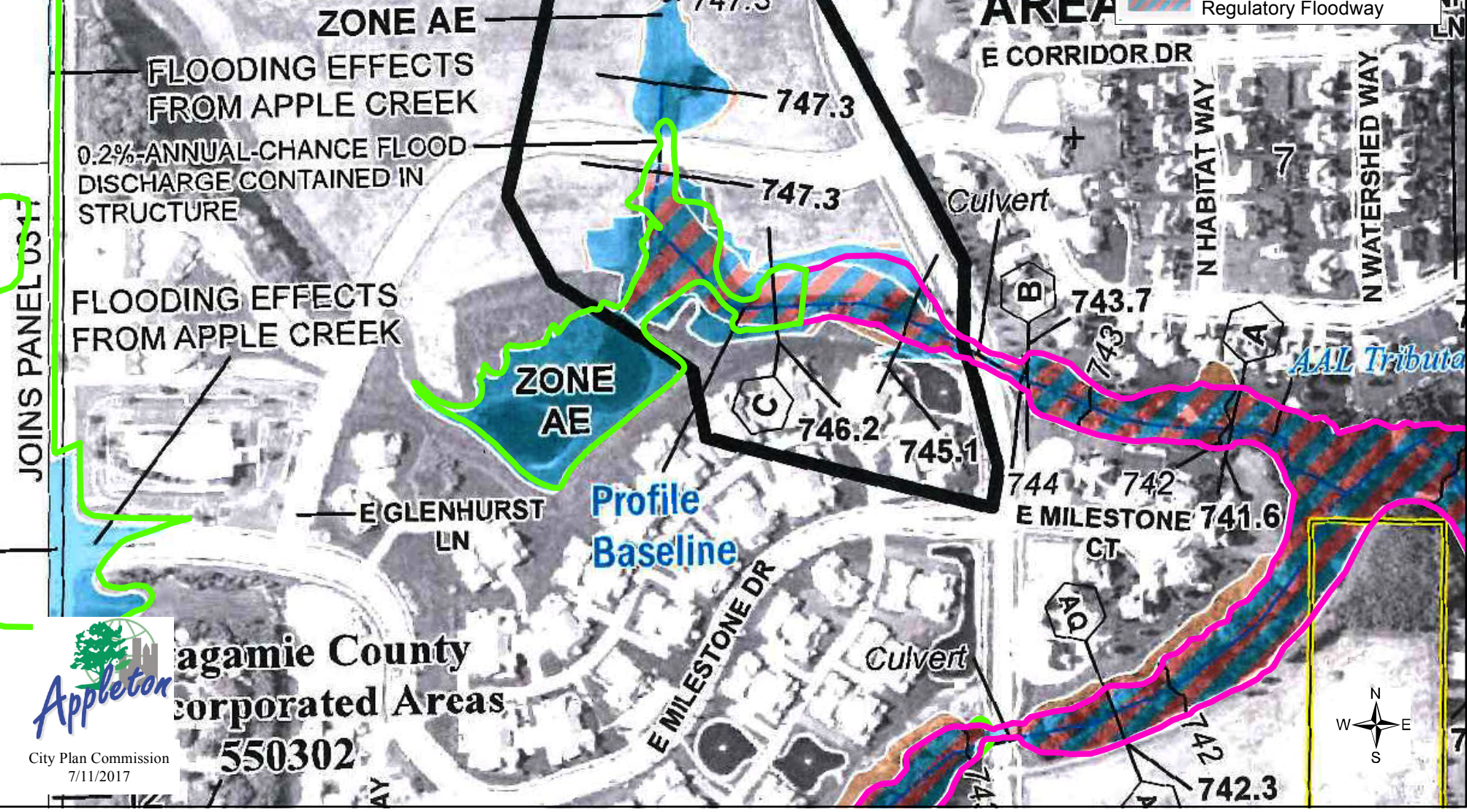
Floodplain Changes

Current Conditions

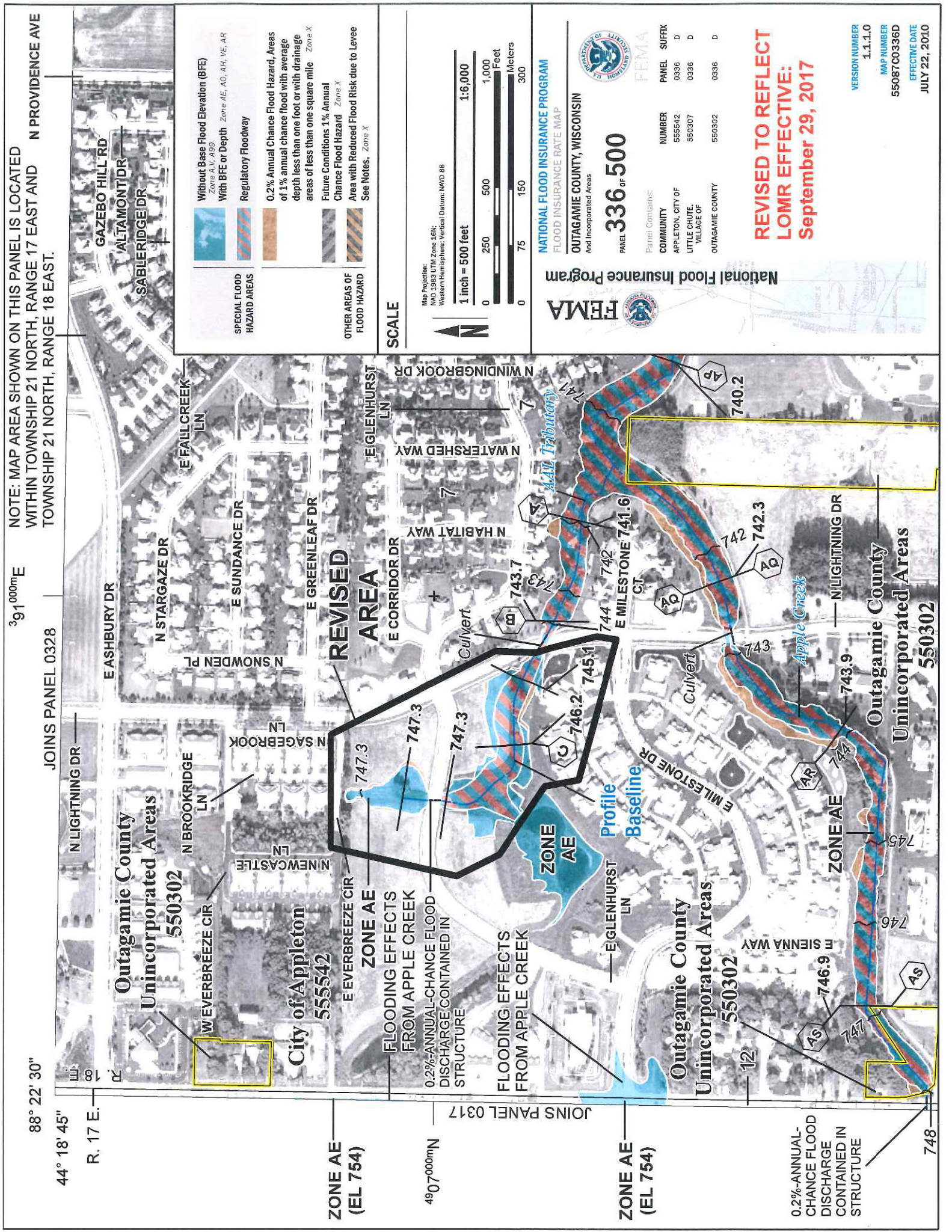
- AE
- Floodway in AE

LOMR Changes Effective 9/29/2017

- With Base Flood Elevation or Depth (zone AE)
- Regulatory Floodway




 Applegate County
 Incorporated Areas
 550302
 City Plan Commission
 7/11/2017



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 21 NORTH, RANGE 17 EAST AND TOWNSHIP 21 NORTH, RANGE 18 EAST.

391,000mE

JOINS PANEL 0328

88° 22' 30"
44° 18' 45"
R. 17 E.

GAZEBO HILL RD
ALTAMONT DR
SABLERIDGE DR

E ASHBURY DR
N STARGAZE DR
E SUNDANCE DR
E GREENLEAF DR
E CORRIDOR DR
N HABILIT WAY
N WINDINGBROOK DR

N LIGHTNING DR
N BROOKRIDGE LN
N SAGEBROOK LN
N NEWCASTLE LN
E EVERBREEZE CIR
E MILESTONE DR

W EVERBREEZE CIR
N BROOKRIDGE LN
N SAGEBROOK LN
N NEWCASTLE LN
E EVERBREEZE CIR
E MILESTONE DR

JOINS PANEL 0317

Without Base Flood Elevation (BFE)
Zone A, V, A99

With BFE or Depth Zone AE, AC, AH, VE, AR

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

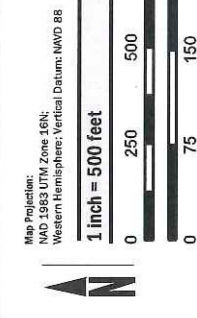
Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee
See Notes, Zone X

SPECIAL FLOOD HAZARD AREAS

OTHER AREAS OF FLOOD HAZARD

SCALE



FEMA

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

OUTAGAMIE COUNTY, WISCONSIN
And Incorporated Areas

336 OF 500

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
APPLETON, CITY OF	555542	0336	D
LITTLE CHUTE, VILLAGE OF	550307	0336	D
OUTAGAMIE COUNTY	550302	0336	D

REVISED TO REFLECT LOMR EFFECTIVE: September 29, 2017

VERSION NUMBER 1.1.1.0
MAP NUMBER 55087C0336D
EFFECTIVE DATE JULY 22, 2010

REVISED AREA

ZONE AE (EL 754)

ZONE AE (EL 754)

0.2%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE

FLOODING EFFECTS FROM APPLE CREEK

0.2%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE

FLOODING EFFECTS FROM APPLE CREEK

Outagamie County Unincorporated Areas 550302

Outagamie County Unincorporated Areas 550302

City of Appleton 555542

Outagamie County Unincorporated Areas 550302

ZONE AE

748

740.2

745

746

747

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749

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740.2

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Federal Emergency Management Agency

Washington, D.C. 20472

May 18, 2017

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Timothy Hanna
Mayor, City of Appleton
100 North Appleton Street
Appleton, WI 54911

IN REPLY REFER TO:

Case No.: 17-05-1963P
Community Name: City of Appleton, WI
Community No.: 555542
Effective Date of
This Revision: September 29, 2017

Dear Mayor Hanna:

The Flood Insurance Study Report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Chicago, Illinois, at (312) 408-5500, or the FEMA Map Information eXchange (EMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Sincerely,

Patrick "Rick" F. Sachbitt, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

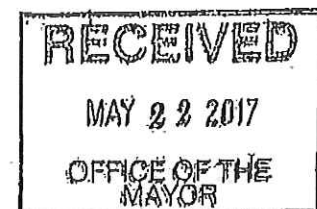
List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Rate Map
Annotated Flood Insurance Study Report

cc: Ms. Paula Vandekoy
Director of Public Works
City of Appleton

Ms. Michelle Staff, CFM
NFIP Coordinator
Wisconsin Department of Natural Resources

Mr. John Davel, P.E.
President
Davel Engineering and Environmental, Inc.





Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT**

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Appleton Outagamie County Wisconsin	FILL	BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 665642		
IDENTIFIER	Pond View Estates	APPROXIMATE LATITUDE & LONGITUDE: 44.309, -88.366 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 55087C0336D DATE: July 22, 2010	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: February 04, 2009 PROFILE(S): 01P FLOODWAY DATA TABLE: 11	

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

AAL Tributary - From just downstream of Lightning Drive to approximately 200 feet upstream of East Glenhurst Drive

SUMMARY OF REVISIONS

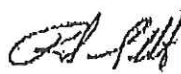
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
AAL Tributary	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	BFEs	BFEs	YES	YES
	Floodway	Floodway	YES	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information Exchange toll free at 1-877-338-2827 (1-877-FEMA-MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.


 Patrick Rick F. Sacbibit, P.E., Branch Chief
 Engineering Services Branch
 Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive study of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information Exchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3801 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick Rick F. Sacbibli, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Christine Stack
Director, Mitigation Division
Federal Emergency Management Agency, Region V
536 South Clark Street, Sixth Floor
Chicago, IL 60605
(312) 408-5500

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information Exchange toll-free at 1-877-338-2627 (1-877-FEMA-MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-8428. Additional information about the NFIP is available on our website at <http://www.fema.gov/hfp>.

Patrick "Rick" F. Sacibiti, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfa_status/bfa_main.asp

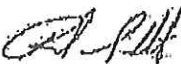
LOCAL NEWSPAPER

Name: *Post-Crescent*

Dates: May 25, 2017 and June 1, 2017

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2827 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-8426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfp>.


Patrick "Rick" F. Sachlil, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

REVISED TO REFLECT LOMR EFFECTIVE: September 29, 2017

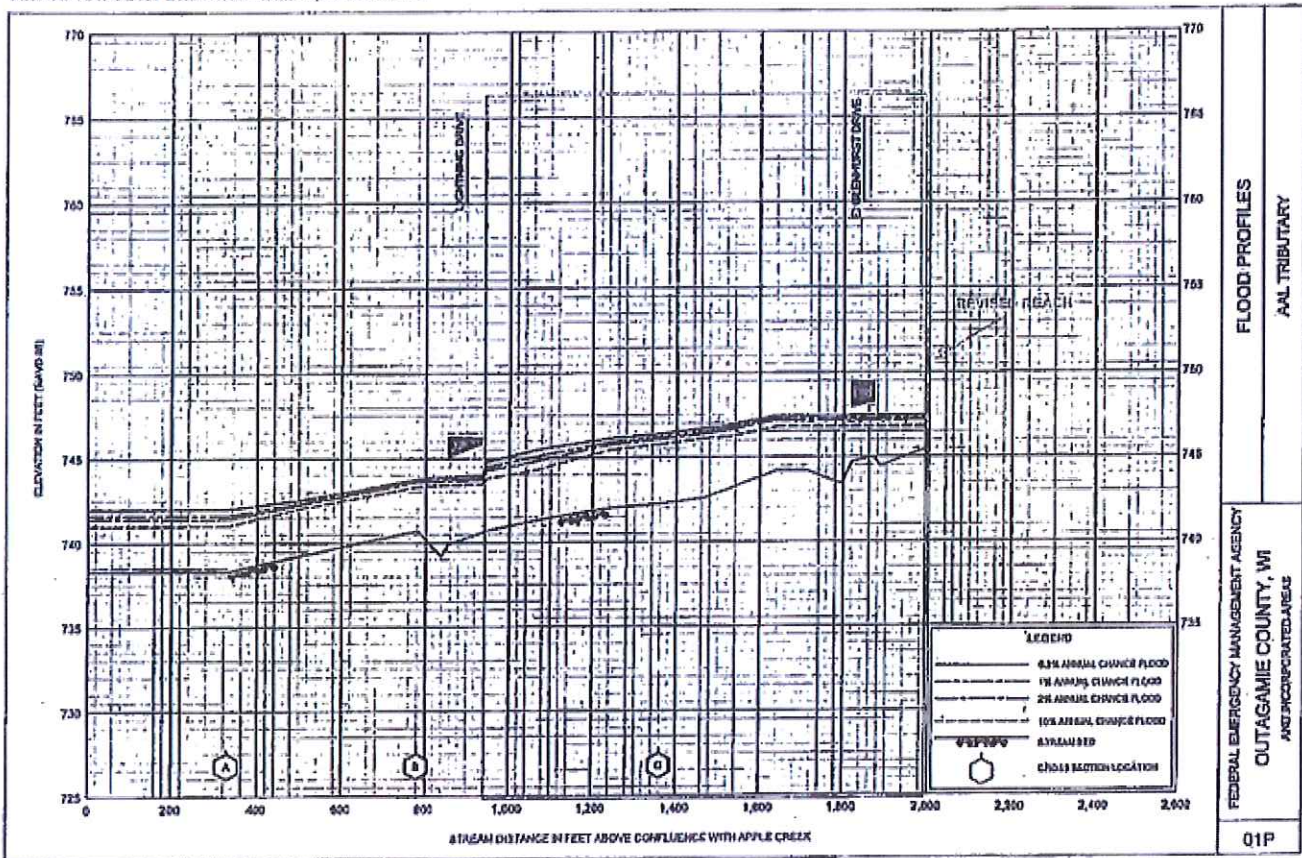
FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AAL TRIBUTARY									
A	327 ¹	142	194	3.0	0	741.6	741.6	741.6	0.0
B	780 ¹	115	204	2.7	61	745.7	745.7	745.7	0.0
C	1360 ¹	113	180	2.8	34	746.2	746.2	746.2	0.0
APPLE CREEK									
A	1,444	797	3,091	1.4	0	647.1	647.1	647.1	0.0
B	3,975	448	1,734	2.5	0	650.7	650.7	650.7	0.0
C	5,725	472	3,504	1.3	0	656.0	656.0	656.0	0.0
D	10,982	467	1,285	3.4	0	657.4	657.4	657.4	0.0
E	13,191	804	4,486	1.0	0	660.0	660.0	660.0	0.0
F	16,387	291	1,698	2.7	0	662.7	662.7	662.7	0.0
G	17,367	442	3,901	1.1	0	664.8	664.8	664.8	0.0
H	19,413	611	4,260	1.4	0	665.2	665.2	665.2	0.0
I	21,797	412	2,007	2.1	0	667.3	667.3	667.3	0.0
J	23,646	858	3,761	1.1	0	669.5	669.5	669.5	0.0
K	25,915	374	1,974	2.1	0	670.8	670.8	670.8	0.0
L	29,779	438	2,126	1.8	0	673.8	673.8	673.8	0.0
M	31,618	532	3,342	1.1	0	678.4	678.4	678.4	0.0
N	34,396	404	1,989	1.9	0	678.8	678.8	678.8	0.0
O	36,122	429	2,073	1.9	0	680.1	680.1	680.1	0.0
P	39,983	574	1,989	1.9	0	685.0	685.0	685.0	0.0
Q	41,501	641	4,545	0.8	0	686.7	686.7	686.7	0.0
R	44,975	361	1,378	2.5	0	687.7	687.7	687.7	0.0
S	47,586	464	1,776	1.9	0	691.4	691.4	691.4	0.0
T	49,411	546	3,554	1.0	0	696.4	696.4	696.4	0.0

REVISED AREA

¹ FEET ABOVE CONSEQUENCE WITH APPLE CREEK
² FEET ABOVE OUTAGAMIE COUNTY BOUNDARY

TABLE 11
 FEDERAL EMERGENCY MANAGEMENT AGENCY
OUTAGAMIE COUNTY, WI
AND INCORPORATED AREAS
FLOODWAY DATA
AAL TRIBUTARY-APPLE CREEK

REVISED TO REFLECT L.O.M. EFFECTIVE: September 26, 2017



FLOOD PROFILES
AAL TRIBUTARY

FEDERAL EMERGENCY MANAGEMENT AGENCY
OUTAGAMIE COUNTY, WI
AN UNINCORPORATED AREA

Q1P

REVISED TO REFLECT LOMR EFFECTIVE: September 29, 2017

FLOODING SOURCE		FLOODWAY				1-PERCENT ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AAL TRIBUTARY									
A	327 ¹	142	194	3.0	0	741.6	741.6	741.6	0.0
B	780 ¹	113	204	2.7	61	743.7	743.7	743.7	0.0
G	1360 ¹	113	180	2.8	34	746.2	746.2	746.2	0.0
APPLE CREEK									
A	1,444	797	3,091	1.4	0	647.1	647.1	647.1	0.0
B	3,273	448	1,734	2.5	0	650.7	650.7	650.7	0.0
C	6,725	472	3,504	1.3	0	656.0	656.0	656.0	0.0
D	10,982	467	1,785	3.4	0	657.4	657.4	657.4	0.0
E	13,191	804	4,486	1.0	0	660.0	660.0	660.0	0.0
F	16,387	291	1,698	2.7	0	662.7	662.7	662.7	0.0
G	17,367	442	3,901	1.1	0	664.8	664.8	664.8	0.0
H	19,413	611	4,260	1.4	0	665.2	665.2	665.2	0.0
I	21,797	412	2,007	2.1	0	667.3	667.3	667.3	0.0
J	23,646	858	3,761	1.1	0	669.6	669.6	669.6	0.0
K	25,915	374	1,974	2.1	0	670.8	670.8	670.8	0.0
L	29,779	438	2,126	1.8	0	673.8	673.8	673.8	0.0
M	31,618	532	3,342	1.1	0	678.4	678.4	678.4	0.0
N	34,336	404	1,989	1.9	0	678.8	678.8	678.8	0.0
O	36,122	429	2,015	1.9	0	680.1	680.1	680.1	0.0
P	39,983	374	1,989	1.9	0	683.0	683.0	683.0	0.0
Q	41,501	641	4,544	0.8	0	686.7	686.7	686.7	0.0
R	44,975	361	1,378	2.5	0	687.7	687.7	687.7	0.0
S	47,586	464	1,776	1.9	0	691.4	691.4	691.4	0.0
T	49,411	546	3,554	1.0	0	696.4	696.4	696.4	0.0

¹ FEET ABOVE CONJUNCTION WITH APPLE CREEK

² FEET ABOVE OUTAGAMIE COUNTY BOUNDARY

FEDERAL EMERGENCY MANAGEMENT AGENCY

OUTAGAMIE COUNTY, WI
AND INCORPORATED AREAS

FLOODWAY DATA

AAL TRIBUTARY-APPLE CREEK

TABLE 11

REVISED TO REFLECT LOMR EFFECTIVE: September 29, 2017

