



The Story of 2 Houses



2 LOMA's --- 2 BFE's

Page 1 of 2		Date: July 17, 2012		Case No.: 12-05-6585A		LOMA-DEN		
		Federal Emergency Management Agency Washington, D.C. 20472						
		LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (NON-REMOVAL)						
COMMUNITY AND MAP PANEL INFORMATION				LEGAL PROPERTY DESCRIPTION				
COMMUNITY	TOWNSHIP OF LEROY, INGHAM COUNTY, MICHIGAN			A parcel of land, as described in the Covenant Deed, recorded as Document No. 2009-015153, in Book 3340, Page 1016, in the Office of the County Register of Deeds, Ingham County, Michigan				
	COMMUNITY NO.: 260906							
AFFECTED MAP PANEL	NUMBER: 26065C0325D							
	DATE: 8/16/2011							
FLOODING SOURCE: WEST BRANCH RED CEDAR (WEST BRANCH DRAIN)				APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 42.613, -84.147 SOURCE OF LAT & LONG: ARCGIS 10 DATUM: NAD 83				
DETERMINATION								
LOT	BLOCK/SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS NOT REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NAVD 88)	LOWEST ADJACENT GRADE ELEVATION (NAVD 88)	LOWEST LOT ELEVATION (NAVD 88)
--	--	--	5452 East Dennis Road	Structure	A	893.3 feet	888.8 feet	--
Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).								
ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)								
ZONE A								

EXTRA WORK - VERY

Page 1 of 2		Date: December 18, 2014		Case No.: 15-05-0716A		LOMA		
		Federal Emergency Management Agency Washington, D.C. 20472						
		LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL)						
COMMUNITY AND MAP PANEL INFORMATION				LEGAL PROPERTY DESCRIPTION				
COMMUNITY	TOWNSHIP OF LEROY, INGHAM COUNTY, MICHIGAN			A parcel of land, as described in the Covenant Deed, recorded as Document No. 2009-015153, in Book 3840, Page 1016, in the Office of the Register of Deeds, Ingham County, Michigan Parcel ID: 33-08-08-36-200-000				
	COMMUNITY NO.: 260906							
AFFECTED MAP PANEL	NUMBER: 26065C0325D							
	DATE: 8/16/2011							
FLOODING SOURCE: MCMAHON DRAIN; WEST BRANCH RED CEDAR				APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 42.613, -84.147 SOURCE OF LAT & LONG: ARCGIS 10.1 DATUM: NAD 83				
DETERMINATION								
LOT	BLOCK/SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NAVD 88)	LOWEST ADJACENT GRADE ELEVATION (NAVD 88)	LOWEST LOT ELEVATION (NAVD 88)
--	--	--	3452 East Dennis Road	Structure	X (unshaded)	--	888.8 feet	--
Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).								
ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)								
PORTIONS REMAIN IN THE SFHA ZONE A								

Shooting the Structure



Checking the LAG

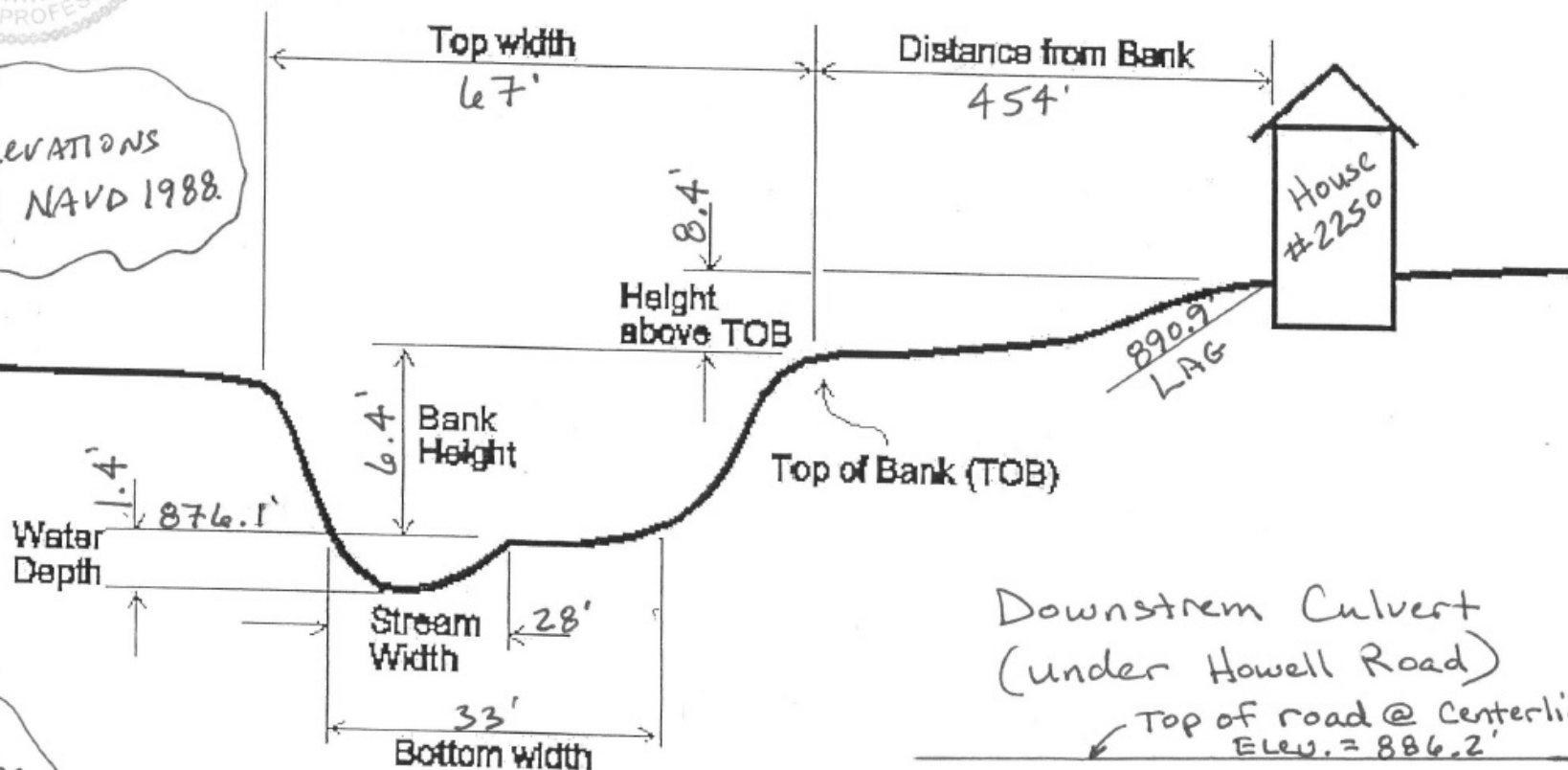
Non-Studied Area

“Mini”-Flood Insurance
Study



Cross-Section (Nearby Doan Creek) - Flooding Source

NOTE:
ALL ELEVATIONS
ARE IN NAVD 1988.



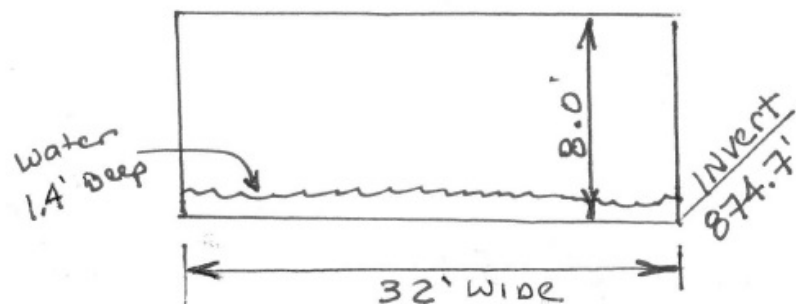
NOTE:
NOT TO
SCALE

Summary:

Lowest Adjacent Grade = 890.9'
Box Culvert Invert = 874.7'
Top of Water Elev. = 876.1'
Ordinary High Water Mark = 876.4'

Downstream Culvert (under Howell Road)

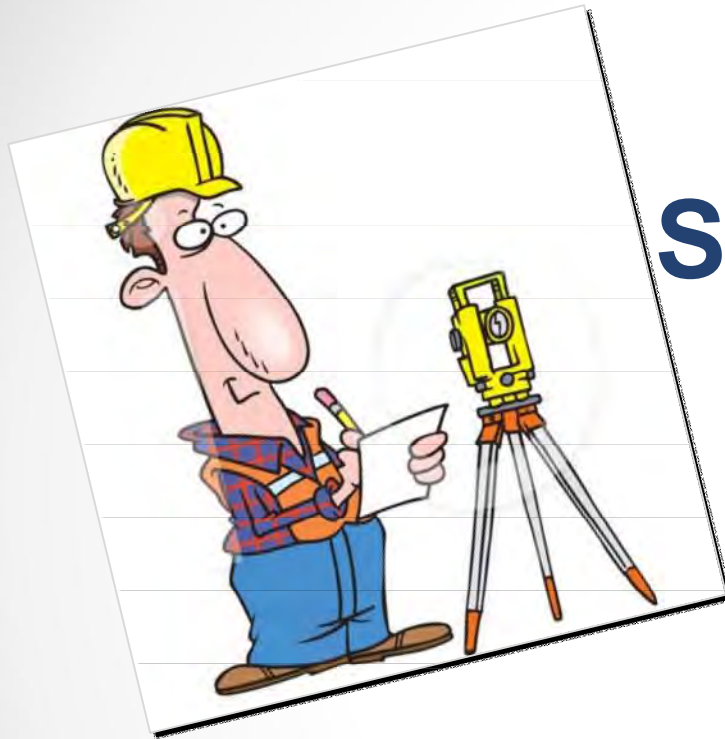
Top of road @ Centerline
Elev. = 886.2'



Lets talk “Common Sense”



You are about to go from...



SURVEYOR

to

SUPERHERO!!!



Completing a LOMA

Main Components (when filing)

1. Deed
2. Subdivision Plat Map or Tax Map
3. FIRMette
4. Elevation Form or MT-EZ
5. Base Flood Elevation
6. Community Acknowledgement Form
(Special)

THE DEED

- **Must be a “copy” of the original**
- **Must have the recordation stamp from the Register of Deeds**
- **Must be a legible stamp**
- **May not be needed, if in Platted Subdivision**

Site Location

1"=200'

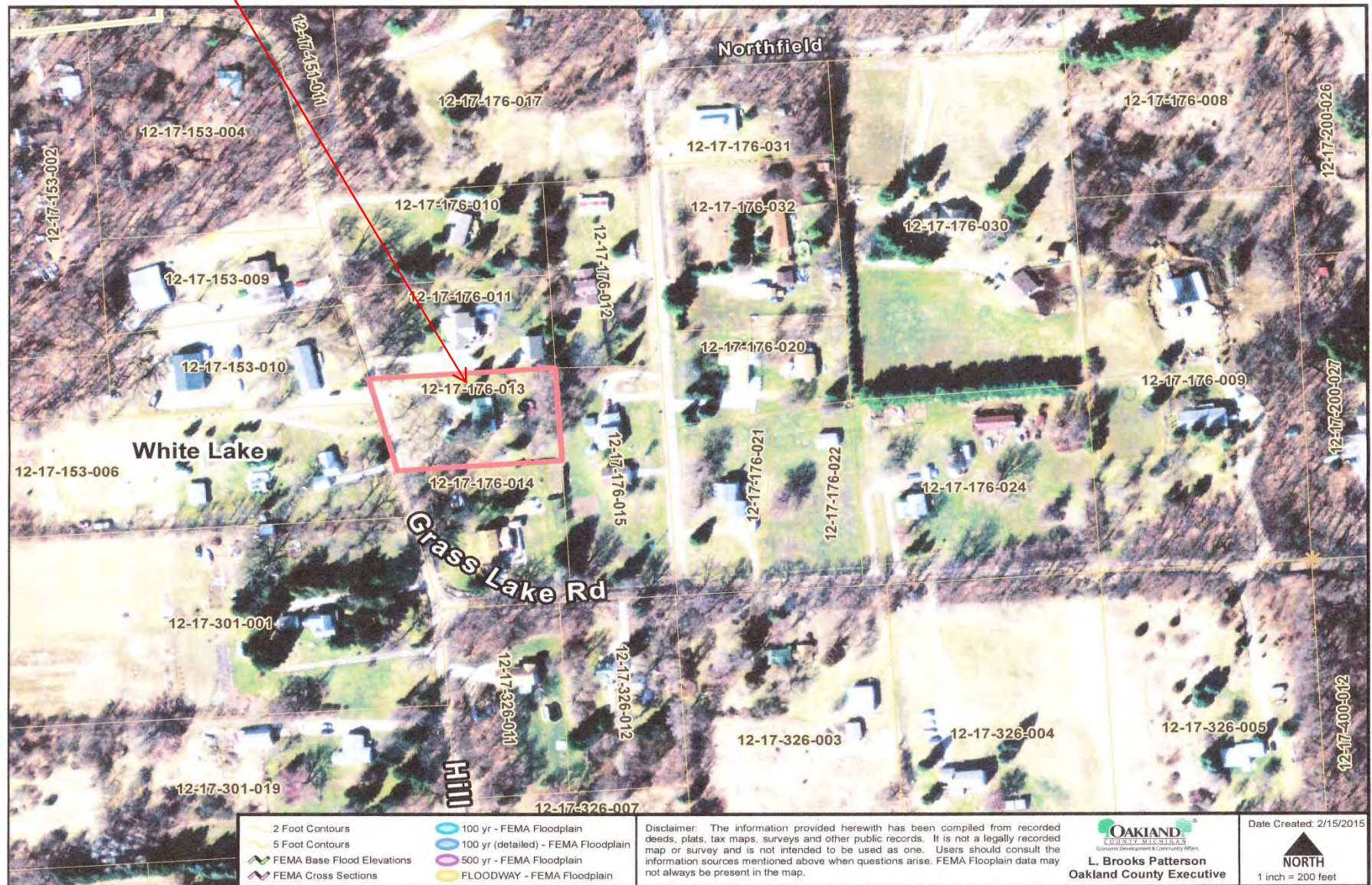
Liber & Page Info.

POINT
OF
BEGINNING
S.W. COR.
SEC. 35 T28N R4W

Parcel
Location

Tax Map

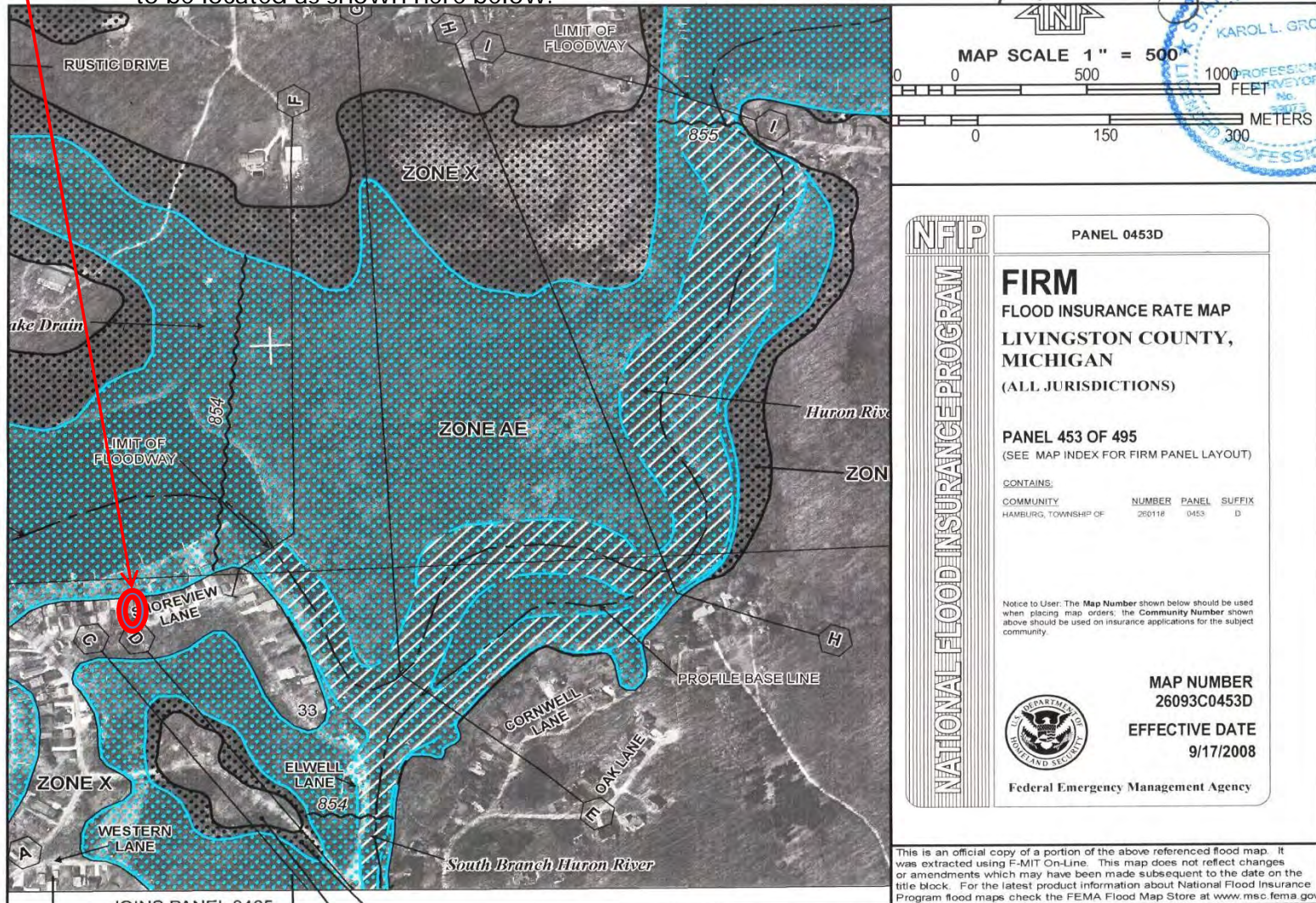
1420 Grass Lake Road



FIRMette


- Must have the property or structure plotted on it.
- Must have a Surveyor certify the location

I Karol L. Grove hereby certify the location of 2314 Lakeview Trail to be located as shown here below.



FIS Stillwater Chart

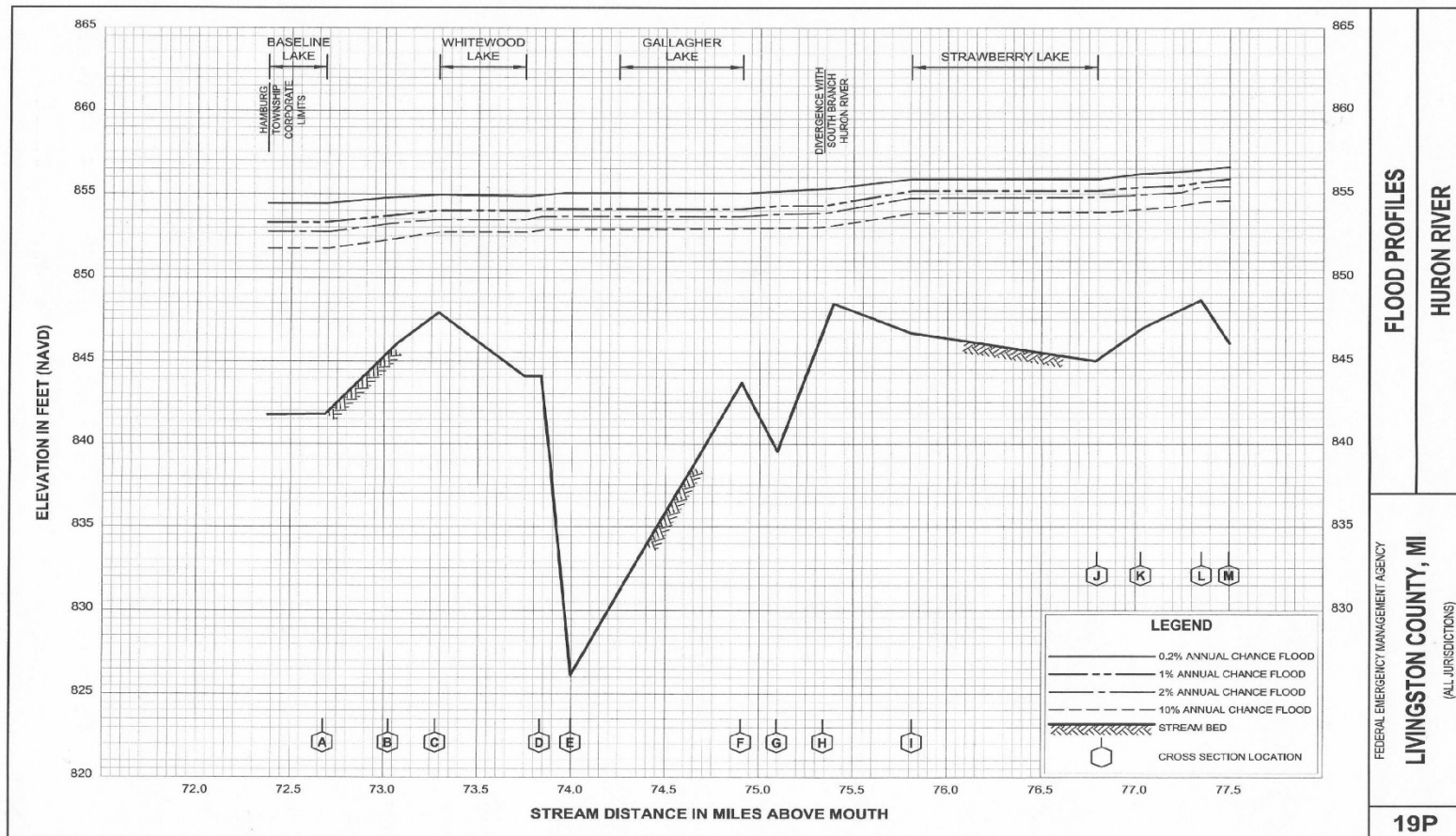
TABLE 8 – Summary of Stillwater Elevations



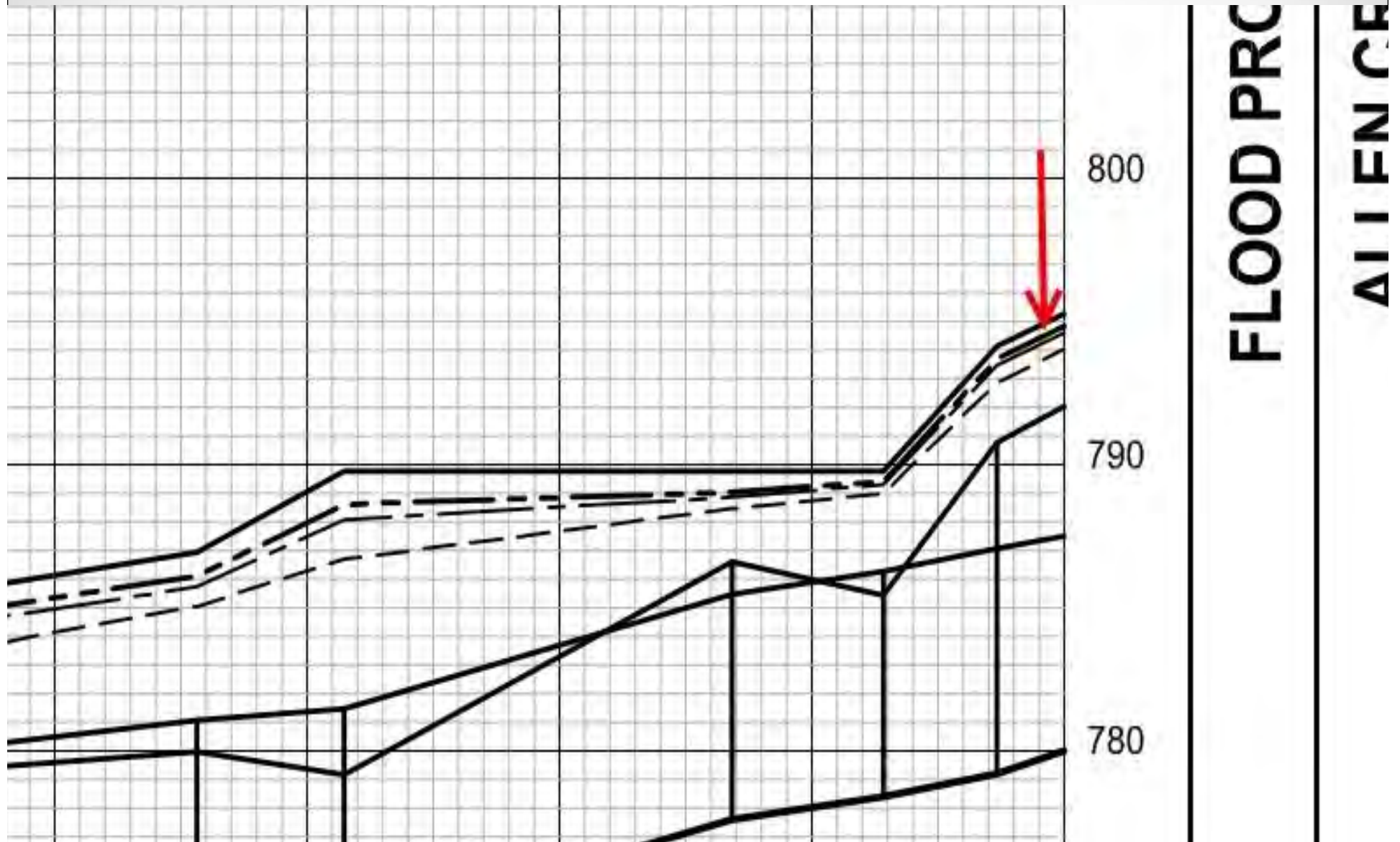
<u>Flooding Source and Location</u>	<u>Real Elevation (per NAWD83)</u>			
	<u>100% Annual Chance</u>	<u>75% Annual Chance</u>	<u>1% Annual Chance</u>	<u>0.2% Annual Chance</u>
Atka Mill Pond Township of Atka	844.1	844.7	844.9	847.4
Copnesonic Lake Townships of Fenton, Grand Blanc and Mundy	844.9	845.2	845.5	845.9
Fenton Mill Pond City of Fenton	898.2	898.6	898.8	899.1
Ferwin Lake Township of Mundy	*	*	837.4	*
Lake Pomenash Township of Fenton	870.5	871.1	871.4	871.8
Shinanguag Lake Township of Atka	*	*	890.0	*
Silver Lake City of Fenton and Township of Fenton	871.1	871.6	871.9	872.5
Squaw Lake Township of Fenton	870.5	871.1	871.4	871.8
Tupper Lake Township of Fenton	870.5	871.1	871.4	871.8

* Data not available

FIS Profile



FIS Profile



Floodway Data Table



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	72.679	396	1,218	2.0	853.3	853.3	853.3	0.0
B	73.028	850	2,363	1.0	853.7	853.7	853.8	0.1
C	73.278	850	1,565	1.5	854.0	854.0	854.1	0.1
D	73.834	900	2,372	1.0	854.1	854.1	854.2	0.1
E	73.999	310	4,943	0.5	854.1	854.1	854.2	0.1
F	74.905	131	991	2.1	854.1	854.1	854.2	0.1
G	75.096	451 ²	2,239	1.0	854.3	854.3	854.4	0.1
H	75.342	180	690	3.3	854.3	854.3	854.4	0.1
I	75.814	224	1,231	1.9	855.2	855.2	855.3	0.1
J	76.798	520	1,781	1.2	855.2	855.2	855.3	0.1
K	77.030	900	3,181	0.7	855.4	855.4	855.5	0.1
L	77.353	550	1,896	1.0	855.7	855.7	855.8	0.1
M	77.499	192	873	2.2	855.9	855.9	856.0	0.1
N	77.567	64	454	4.3	855.9	855.9	856.0	0.1
O	77.603	118	751	2.6	856.2	856.2	856.3	0.1
P	77.717	446	1,668	1.2	856.4	856.4	856.5	0.1
Q	77.899	228	1,086	1.8	856.6	856.6	856.7	0.1
R	78.000	84	545	3.6	856.7	856.7	856.8	0.1
S	78.045	295	994	2.0	856.9	856.9	857.0	0.1
T	78.283	350	1,258	1.5	857.2	857.2	857.3	0.1
U	78.522	435	1,552	1.3	857.6	857.6	857.7	0.1
V	78.819	290	924	2.1	857.9	857.9	858.0	0.1
W	79.018	291	1,407	1.4	858.2	858.2	858.3	0.1
X	79.369	355	1,414	1.4	858.4	858.4	858.5	0.1
Y	79.600	360	1,551	1.3	858.6	858.6	858.7	0.1
Z	79.862	122	651	3.0	858.7	858.7	858.8	0.1

¹Miles above mouth
²Combined width with South Branch Huron River

TABLE 14	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LIVINGSTON COUNTY, MI (ALL JURISDICTIONS)	HURON RIVER

DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY
ELEVATION FORM

O.M.B. NO. 1660-0015
Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this data collection is estimated to average 1.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and submitting the form. This collection is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0015). **NOTE: Do not send your completed form to this address.**

This form must be completed for requests and must be completed and signed by a registered professional engineer or licensed land surveyor. A DHS - FEMA National Flood Insurance Program (NFIP) Elevation Certificate may be submitted in lieu of this form for single structure requests.

For requests to remove a structure on natural grade OR on engineered fill from the Special Flood Hazard Area (SFHA), submit the lowest adjacent grade (the lowest ground touching the structure), **including an attached deck or garage**. For requests to remove an entire parcel of land from the SFHA, provide the lowest lot elevation; or, if the request involves an area described by metes and bounds, provide the lowest elevation within the metes and bounds description. All measurements are to be rounded to nearest tenth of a foot. In order to process your request, all information on this form must be completed **in its entirety**. Incomplete submissions will result in processing delays.

1. NFIP Community Number: _____ Property Name or Address: _____
2. Are the elevations listed below based on ☐ **existing** or ☐ **proposed** conditions? (Check one)
3. For the existing or proposed structures listed below, what are the types of construction? (check all that apply)
☐ crawl space ☐ slab on grade ☐ basement/enclosure ☐ other (explain) _____
4. Has DHS - FEMA identified this area as subject to land subsidence or uplift? (see instructions) ☐ Yes ☐ No
If yes, what is the date of the current re-leveling? ____ / ____ (month/year)
5. What is the elevation datum? ☐ NGVD 29 ☐ NAVD 88 ☐ Other (explain) _____
If any of the elevations listed below were computed using a datum different than the datum used for the effective Flood Insurance Rate Map (FIRM) (e.g., NGVD 29 or NAVD 88), what was the conversion factor? _____
Local Elevation +/- ft. = FIRM Datum
6. Please provide the Latitude and Longitude of the most upstream edge of the **structure** (in decimal degrees to the nearest fifth decimal place):
Indicate Datum: ☐ WGS84 ☐ NAD83 ☐ NAD27 Lat. _____ Long. _____
Please provide the Latitude and Longitude of the most upstream edge of the **property** (in decimal degrees to the nearest fifth decimal place):
Indicate Datum: ☐ WGS84 ☐ NAD83 ☐ NAD27 Lat. _____ Long. _____

Address	Lot Number	Block Number	Lowest Lot Elevation*	Lowest Adjacent Grade To Structure	Base Flood Elevation	BFE Source

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name:	License No.:	Expiration Date:
Company Name:	Telephone No.:	<div>Seal (optional)</div>
Email:	Fax No.	
Signature:	Date:	

* For requests involving a portion of property, include the lowest ground elevation within the metes and bounds description.
Please note: If the Lowest Adjacent Grade to Structure is the only elevation provided, a determination will be issued for the structure only.

Elevation Form

COMMUNITY ACKNOWLEDGEMENT FORMS

DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY COMMUNITY ACKNOWLEDGMENT FORM		<small>U.S.A. NO. 0600-0011 Expires February 28, 2004</small>
PAPERWORK BURDEN DISCLOSURE NOTICE <small>Public reporting burden for this data collection is estimated to average 1.38 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. This collection is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to Information Collection Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 22204-3005, Paperwork Reduction Project (1605-0011). NDTs: Do not send your completed form to this address.</small>		
<small>This form must be completed for requests involving the existing or proposed placement of NR (complete Section A) OR to provide acknowledgment of this request to remove a property from the SFHA which was previously located within the regulatory floodway (complete Section B).</small>		
<small>This form must be completed and signed by the official responsible for floodplain management in the community. The six digit NIP community number and the subject property address must appear in the spaces provided below. Incomplete submissions will result in processing delays. Please refer to the MT-1 instructions for additional information about this form.</small>		
Community Number: 	Property Name or Address: 	
A. REQUESTS INVOLVING THE PLACEMENT OF NR <small>As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision Based on NR (LOMR-NR) or Conditional LOMR-F request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no NR be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a Conditional LOMR-F, will be obtained. For Conditional LOMR-F requests, the applicant has or will document Endangered Species Act (ESA) compliance to FEMA prior to issuance of the Conditional LOMR-F determination. For LOMR-F requests, I acknowledge that compliance with Sections 9 and 10 of the ESA has been achieved independently of FEMA's process. Section 9 of the ESA prohibits anyone from "taking" or harming an endangered species. If an action might harm an endangered species, a permit is required from U.S. Fish and Wildlife Service or National Marine Fisheries Service under Section 10 of the ESA. For actions authorized, funded, or being carried out by Federal or State agencies, documentation from the agency showing its compliance with Section 7(a)(2) of the ESA will be submitted. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by DHS-FEMA, all analyses and documentation used to make this determination. For LOMR-F requests, we understand that this request is being forwarded to DHS-FEMA for a possible map revision.</small> <small>Community Comments:</small> <div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>		
Community Official's Name and Title: (Please Print or Type)		Telephone No.:
Community Name:	Community Official's Signature: (required)	Date:
B. PROPERTY LOCATED WITHIN THE REGULATORY FLOODWAY <small>As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this request for a LOMR. We understand that this request is being forwarded to DHS-FEMA to determine if this property has been inadvertently included in the regulatory floodway. We acknowledge that no NR on this property has been or will be placed within the designated regulatory floodway. We find that the completed or proposed project meets or is designed to meet all of the community floodplain management requirements.</small> <small>Community Comments:</small> <div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>		
Community Official's Name and Title: (Please Print or Type)		Telephone No.:
Community Name:	Community Official's Signature: (required)	Date:

What if the structure is too low???



What if we cannot eliminate the Flood Insurance Requirement?

...

If done correctly, in most cases we can get a 75% reduction
in your Flood Insurance Premium.

Guaranteed!!

ELEVATION CERTIFICATE

Elevation Certificate

- No longer the Animal it used to be...
- When are they needed???




Why do we ask what year a structure was built?

Pre-FIRM
Vs
Post-FIRM



Community Status Book

**FEMA**

What are you looking for?

[Safer, Stronger, Protected Homes & Communities](#)
[Protecting Homes](#)
[Flood Insurance](#)
[Flood Insurance Library](#)
[Workshop](#)
[Publications](#)
[Ask The Expert](#)
[Statistics](#)
[Flood Insurance Manual](#)
[Flood Hazard Mapping](#)
[Protecting Our Communities](#)

The National Flood Insurance Program Community Status Book

Please select the state, territory or nation to see the report. These documents are now provided in Adobe PDF, comma separated values (CSV) text file, and HTML formats.

Nation	PDF 1.7MB	CSV 2.3MB			
Alabama	PDF 36KB	CSV 45KB	Nebraska	PDF 35KB	CSV 44KB
Alaska	PDF 7KB	CSV 5KB	Nevada	PDF 5KB	CSV 3KB
American Samoa	PDF 2KB	CSV 2KB	New Hampshire	PDF 18KB	CSV 23KB
Arizona	PDF 11KB	CSV 10KB	New Jersey	PDF 45KB	CSV 59KB
Arkansas	PDF 38KB	CSV 47KB	New Mexico	PDF 11KB	CSV 11KB
California	PDF 43KB	CSV 55KB	New York	PDF 110KB	CSV 153KB
Colorado	PDF 22KB	CSV 26KB	North Carolina	PDF 52KB	CSV 62KB
Connecticut	PDF 15KB	CSV 18KB	North Dakota	PDF 27KB	CSV 31KB

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● **Alaska** ●

Community Status Book

Iowa	PDF 48KB	CSV 62KB	South Dakota	PDF 19KB	CSV 21KB
Kansas	PDF 36KB	CSV 44KB	Tennessee	PDF 33KB	CSV 40KB
Kentucky	PDF 28KB	CSV 35KB	Territory of Pacific	PDF 2KB	CSV 2KB
Louisiana	PDF 27KB	CSV 33KB	Texas	PDF 105KB	CSV 131KB
Maryland	PDF 13KB	CSV 14KB	U.S. Minor Islands	PDF 2KB	CSV 0KB
Maine	PDF 71KB	CSV 65KB	Utah	PDF 17KB	CSV 20KB
Massachusetts	PDF 26KB		Vermont	PDF 23KB	CSV 28KB
Marshall Island	PDF 2KB		Virgin Islands	PDF 2KB	CSV 2KB
Michigan	PDF 64KB	CSV 85KB	Virginia	PDF 24KB	CSV 30KB
Minnesota	PDF 49KB	CSV 62KB	Washington	PDF 26KB	CSV 30KB
Mississippi	PDF 26KB	CSV 32KB	West Virginia	PDF 23KB	CSV 28KB
Missouri	PDF 57KB	CSV 71KB	Wisconsin	PDF 46KB	CSV 59KB
Montana	PDF 13KB	CSV 14KB	Wyoming	PDF 9KB	CSV 9KB

Init FIRM Identified



Federal Emergency Management Agency Community Status Book Report

VERMONT

Communities Participating in the National Flood Program

CID	Community Name	County	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date	Tribal
500299#	ROCHESTER, TOWN OF	WINDSOR COUNTY	12/20/74	08/05/91	09/28/07	08/05/91	No
500135#	ROCKINGHAM, TOWN OF INCLUDES THE VILLAGE CORPORATION OF SAXTON'S RIVER	WINDHAM COUNTY	06/21/74	05/15/80	09/28/07	05/15/80	No
500276#	ROXBURY, TOWN OF	WASHINGTON COUNTY	12/13/74	01/17/86	03/19/13	01/17/86	No
500153#	ROYALTON, TOWN OF	WINDSOR COUNTY	07/19/74	01/16/81	09/28/07	01/16/81	No
500018A	RUPERT, TOWN OF	BENNINGTON COUNTY	08/09/74	09/18/85	12/02/15(M)	09/18/85	No
500101#	RUTLAND, CITY OF	RUTLAND COUNTY	03/15/74	04/17/78	08/28/08	04/17/78	No
500267#	RUTLAND, TOWN OF	RUTLAND COUNTY	02/07/75	09/29/78	08/28/08(M)	09/29/78	No
500030#	RYEGATE, TOWN OF	CALEDONIA COUNTY	08/02/75	06/17/91	06/17/91	06/17/91	No
500170#	SALISBURY, TOWN OF	ADDISON COUNTY	12/20/74	11/01/85	11/01/85(M)	11/01/85	No
500183A	SANDGATE, TOWN OF The Town of Sandgate is mapped on Bennington County FIRM panels effective 12/02/2015. The FIRM panels will be linked in CIS soon.	BENNINGTON COUNTY	01/31/75	12/02/15	12/02/15(M)	12/02/15	No
500019A	SHAFTSBURY, TOWN OF	BENNINGTON COUNTY	06/28/74	09/18/85	12/02/15	09/18/85	No
500300#	SHARON, TOWN OF	WINDSOR COUNTY	02/04/77	09/28/07	09/28/07(M)	09/28/07	No
500193#	SHELBURNE, TOWN OF	CHITTENDEN COUNTY	12/13/74	12/16/80	07/18/11	12/16/80	No
500059#	SHELDON, TOWN OF	FRANKLIN COUNTY	04/12/74	04/01/81	04/01/81	04/01/81	No
500171#	SHOREHAM, TOWN OF	ADDISON COUNTY	02/07/75	08/01/79	07/25/80	08/01/79	No
500102#	SHREWSBURY, TOWN OF	RUTLAND COUNTY	06/28/74	09/01/78	08/28/08	09/01/78	No
500195#	SOUTH BURLINGTON, CITY OF	CHITTENDEN COUNTY	11/01/74	03/16/81	07/18/11	03/16/81	No

BW-12

&

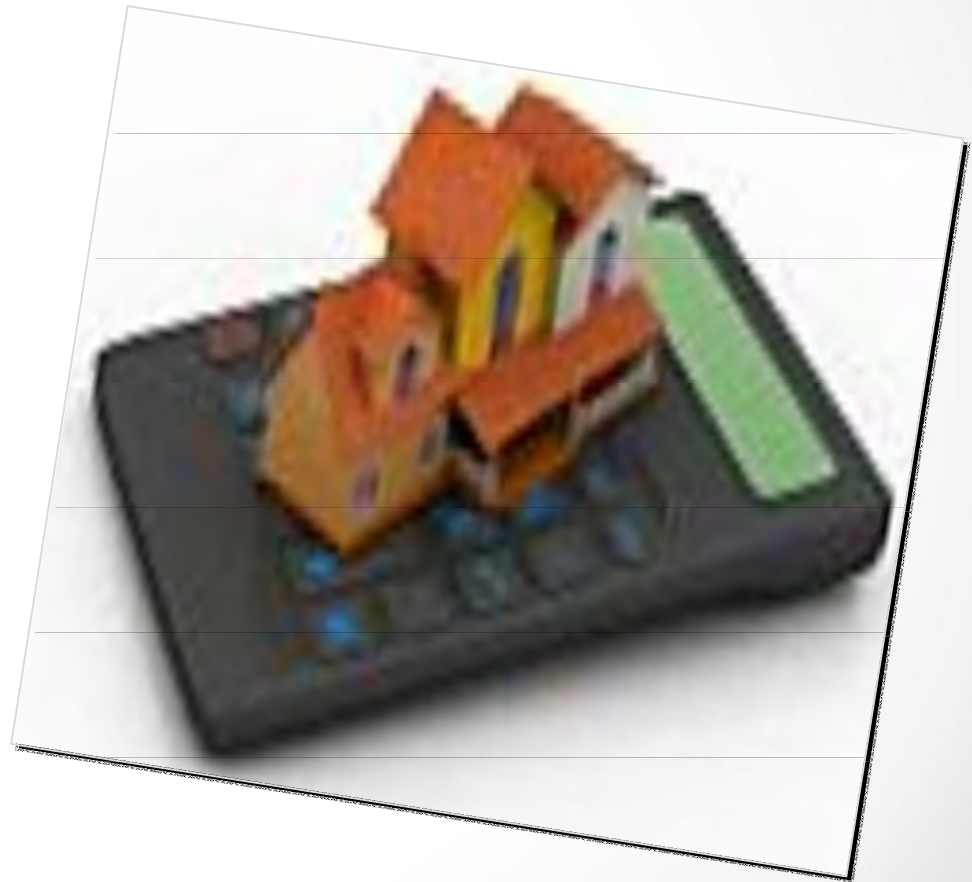
ELEVATION CERTIFICATES

INSURANCE AGENTS

- Writing a Flood Insurance Policy
- Homeowners have options
- Reading the Elevation Certificate
- Lowest Floor vs Lowest Adjacent Grade
- Conditions for installing Flood Vents

ELEVATION CERTIFICATES

MISTAKES
MANY MANY
MISTAKES!!!



ELEVATION CERTIFICATES

MISTAKES
MANY MANY
MISTAKES!!!



Mistakes on Elevation Certificates

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

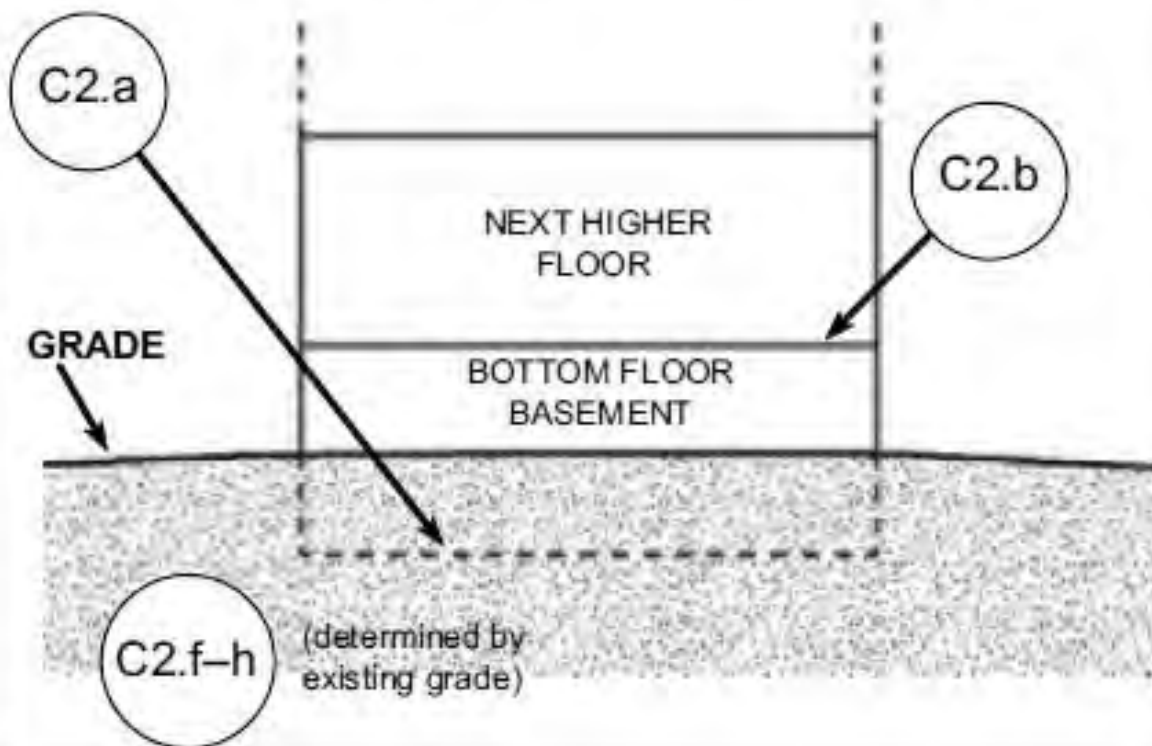
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name Rory Fox		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 41215 Conger Bay Drive		Company NAIC Number:
City Harrison Township	State Michigan	ZIP Code 48045
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Part of Lot 47, Lot 48, Belvidere Subdivision as per plat of record. Tax ID #: 17-12-15-154-035		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>42.597920</u> Long. <u>-82.792798</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>8</u>		
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) <u>918</u> sq ft		

DIAGRAM 2

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

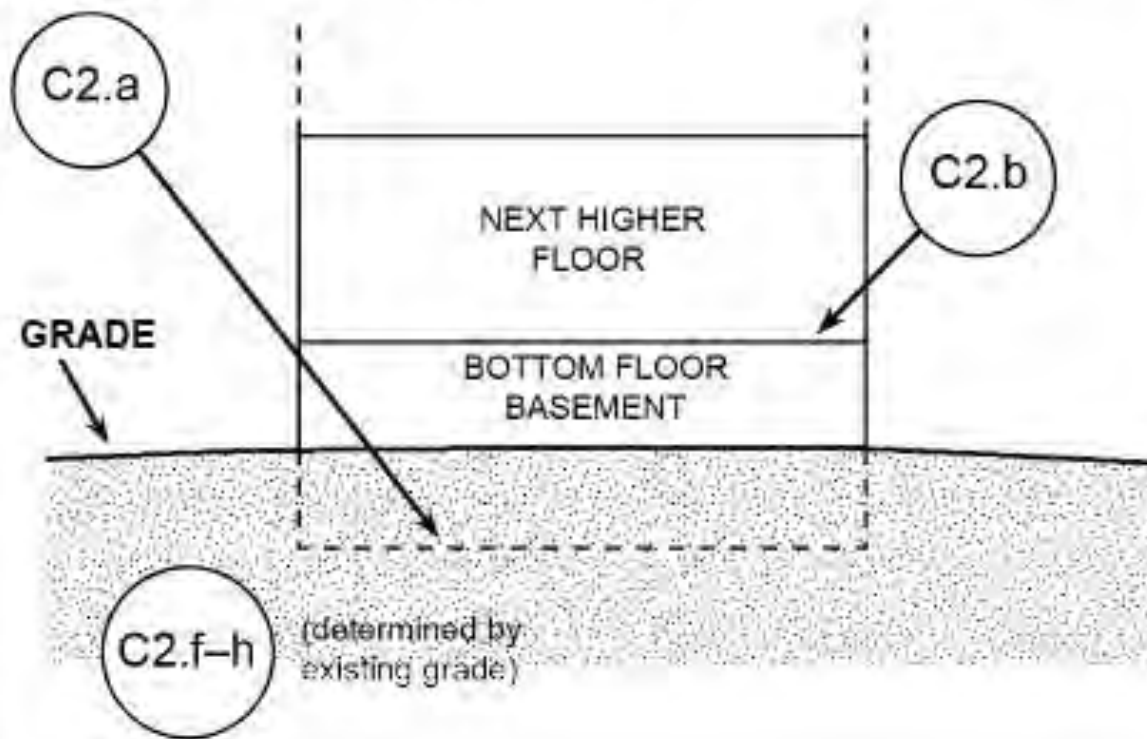


**The
Correct
Diagram
??**

DIAGRAM 2A

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

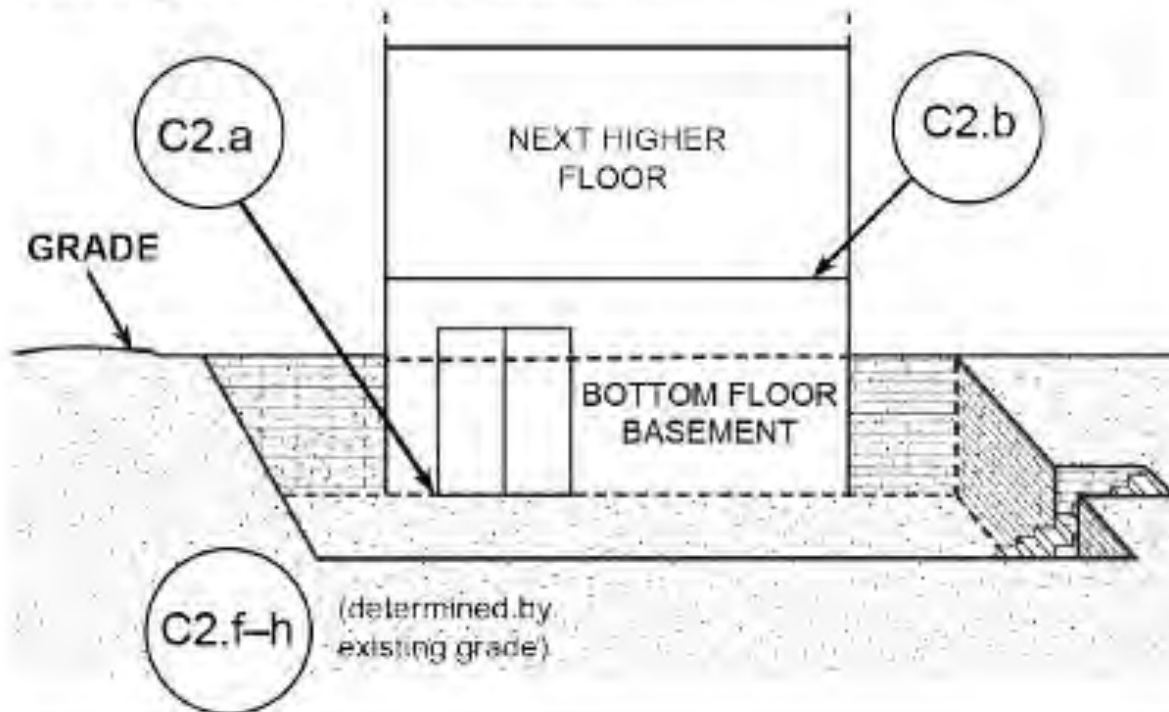


**The
Correct
Diagram
??**

DIAGRAM 2B

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides; most of the height of the walls is below ground level on all sides; and the door and area of egress are also below ground level on all sides.*

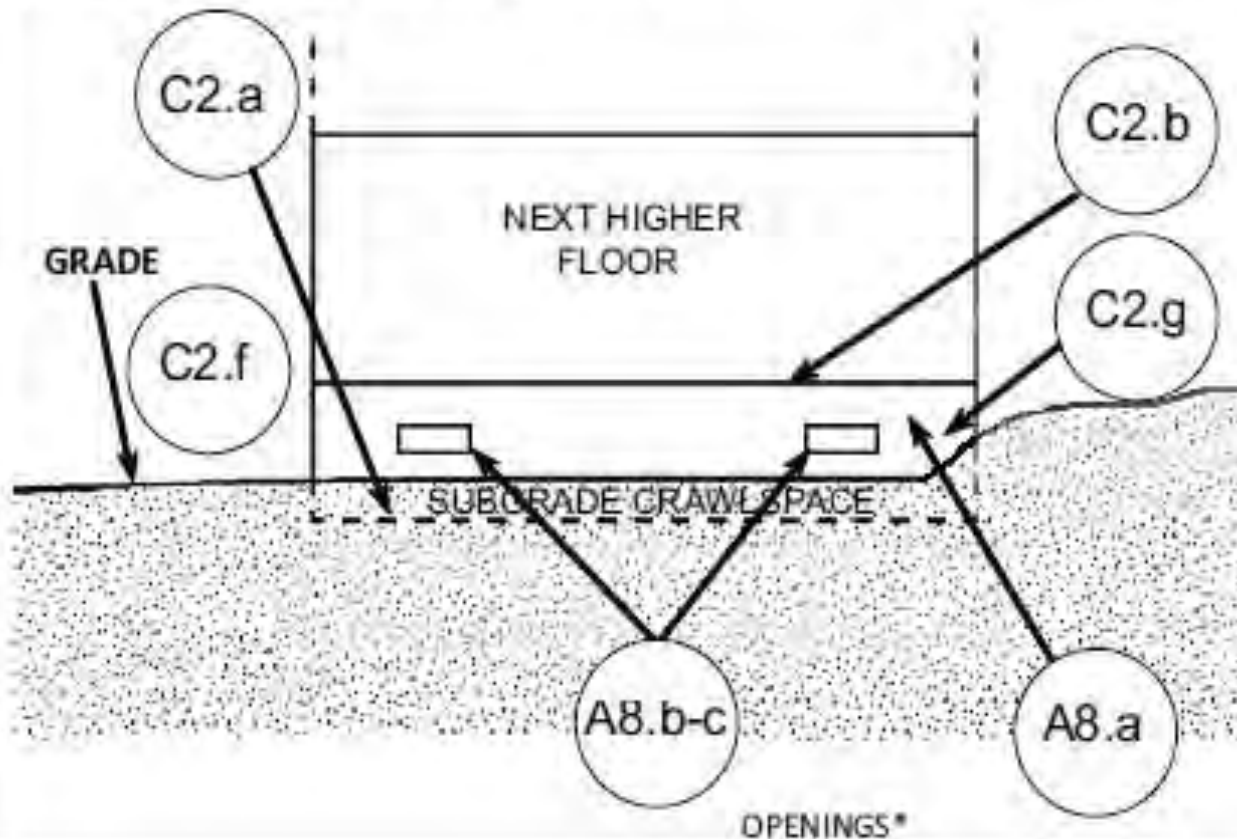


**The
Correct
Diagram
??**

DIAGRAM 9

All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides.* (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, or the crawlspace floor is more than 2 feet below the grade [LAG] on all sides, use Diagram 2.)



**The
Correct
Diagram
??**

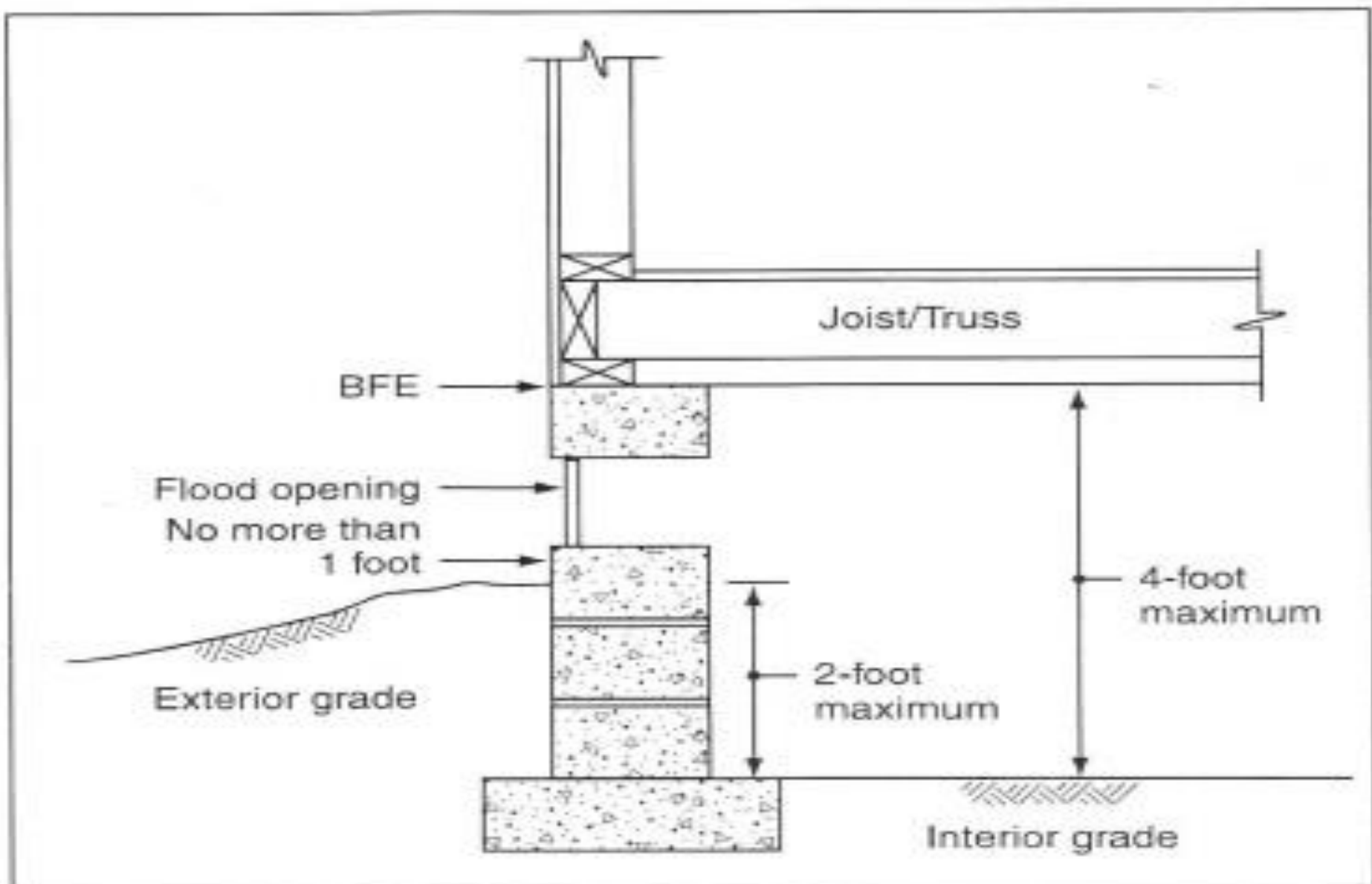
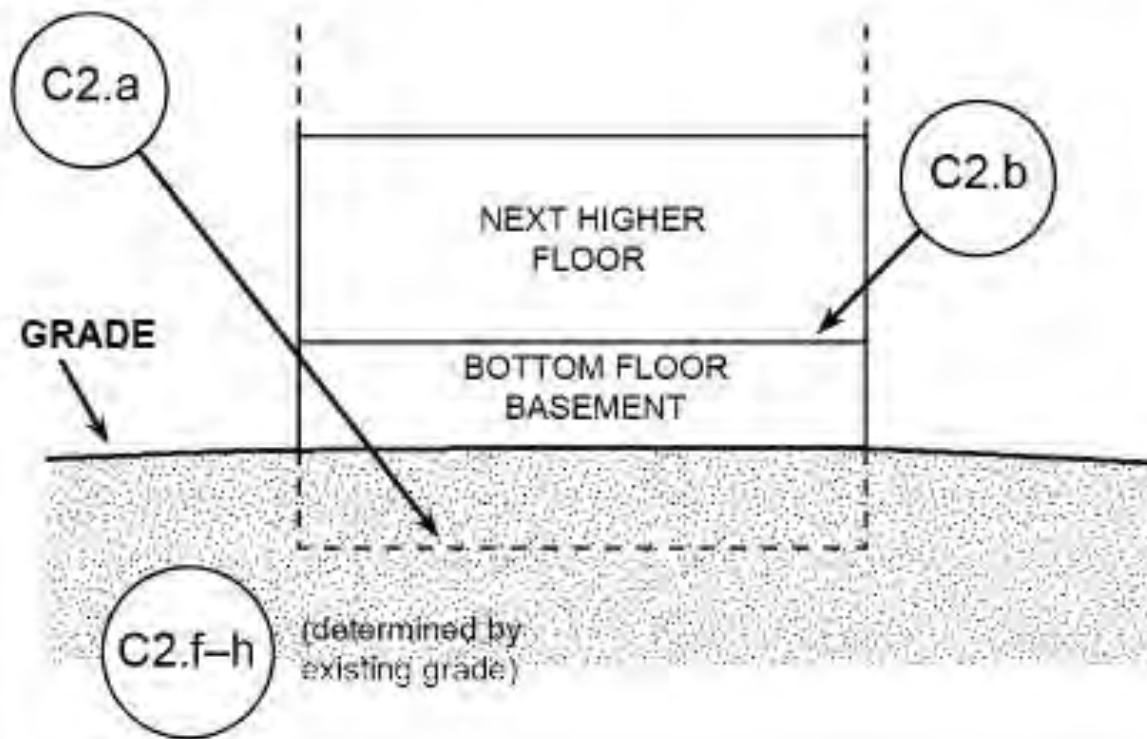


Figure 2. Limitations on below-grade crawlspaces in shallow flood hazard areas (TB 11)

DIAGRAM 2A

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

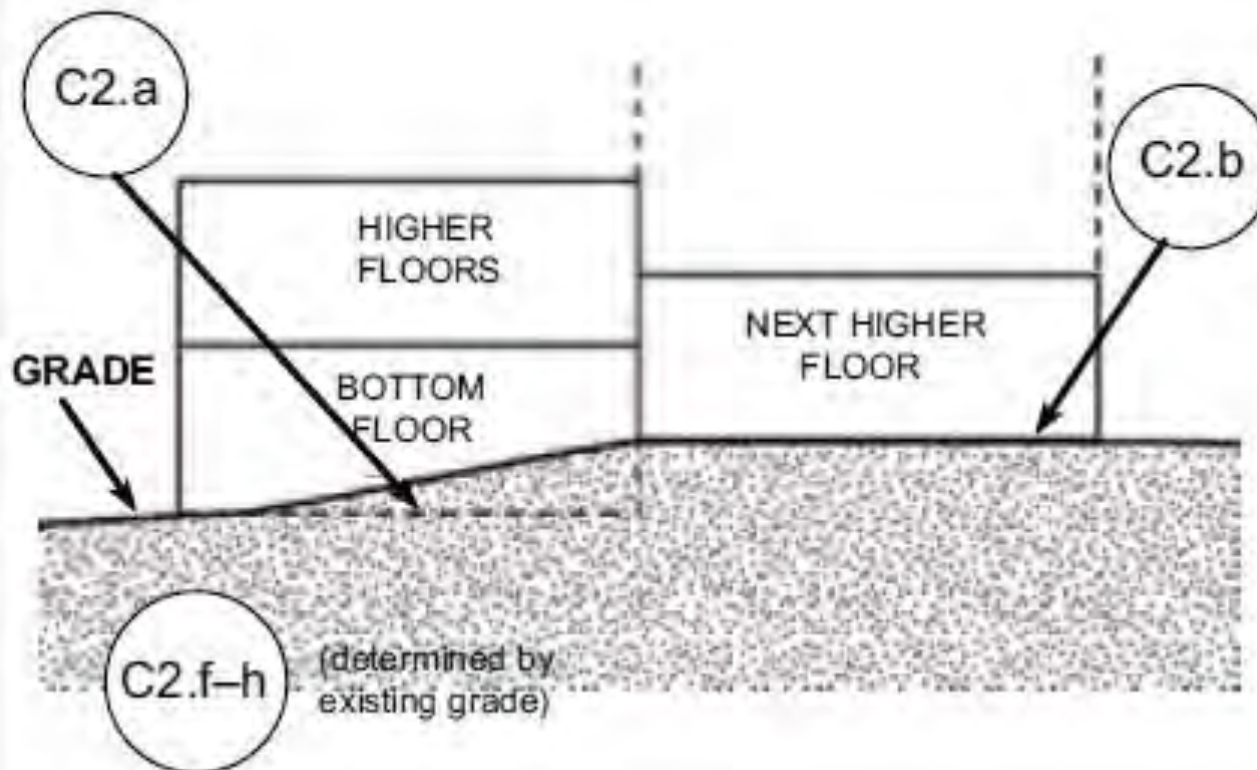


**The
Correct
Diagram
??**

DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least 1 side.*

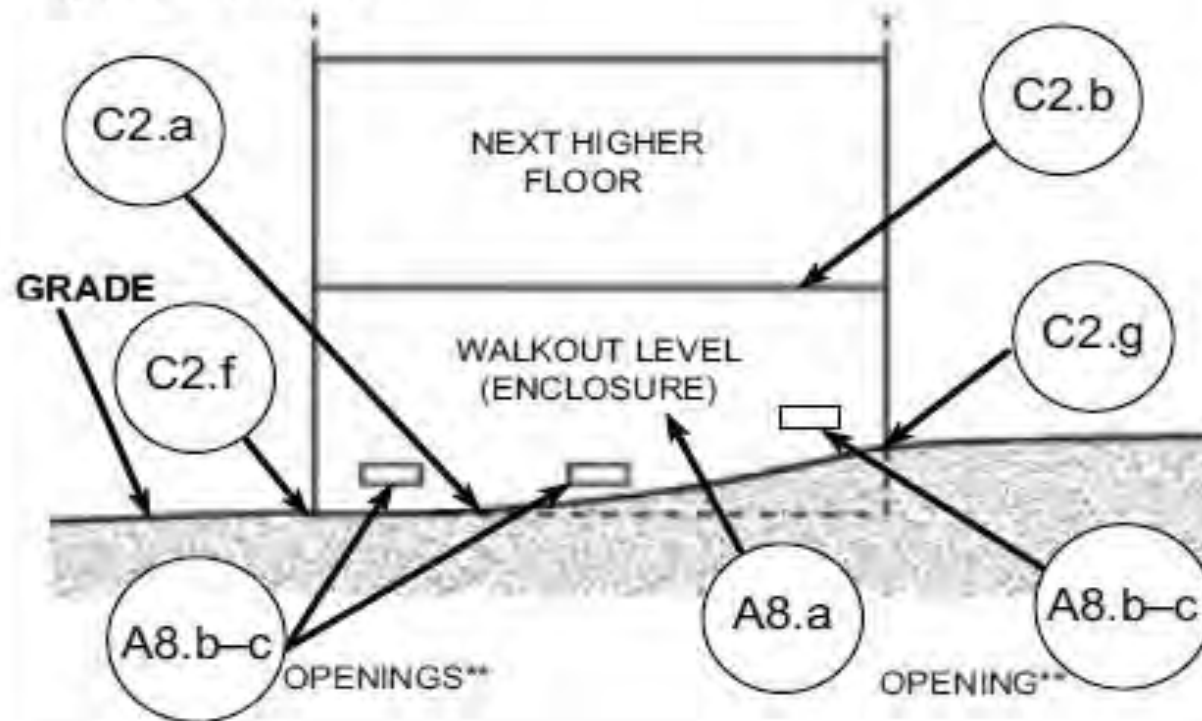


**The
Correct
Diagram
??**

DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.

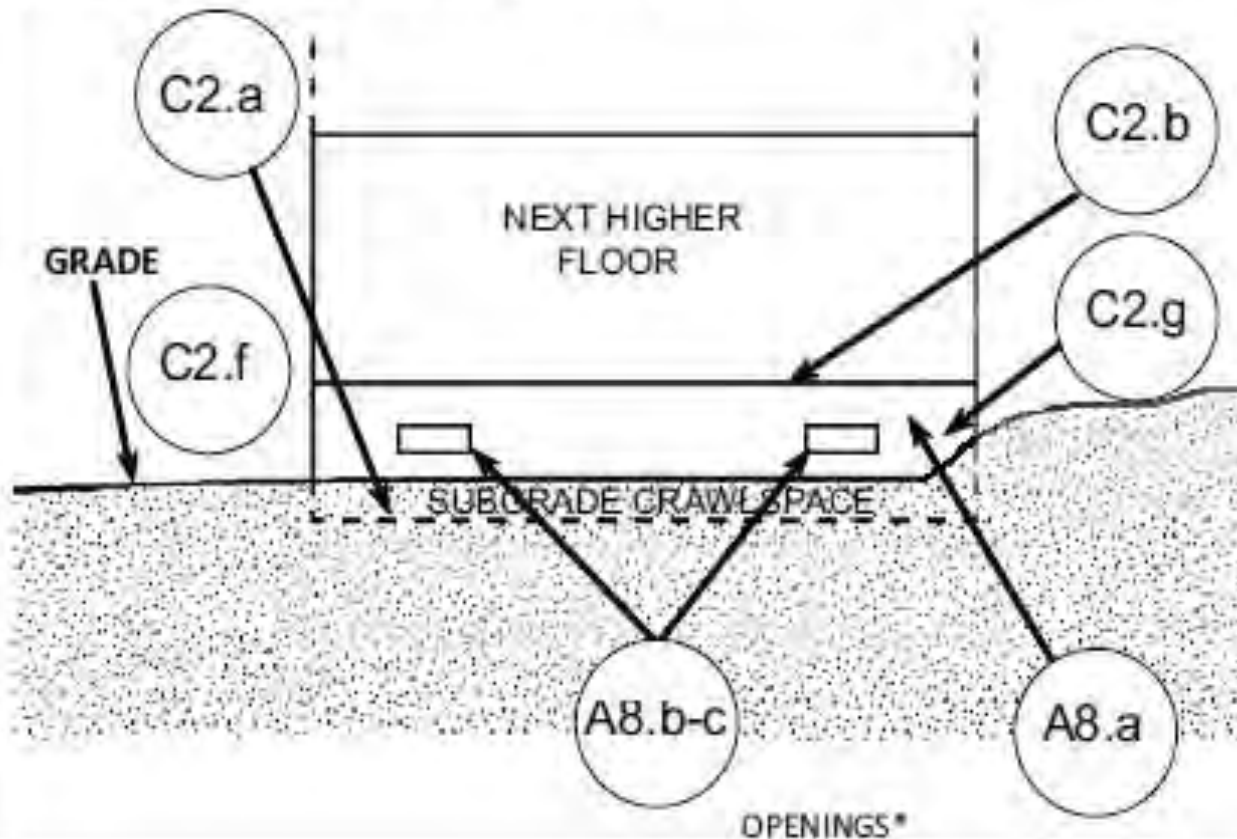


The
Correct
Diagram
??

DIAGRAM 9

All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides.* (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, or the crawlspace floor is more than 2 feet below the grade [LAG] on all sides, use Diagram 2.)

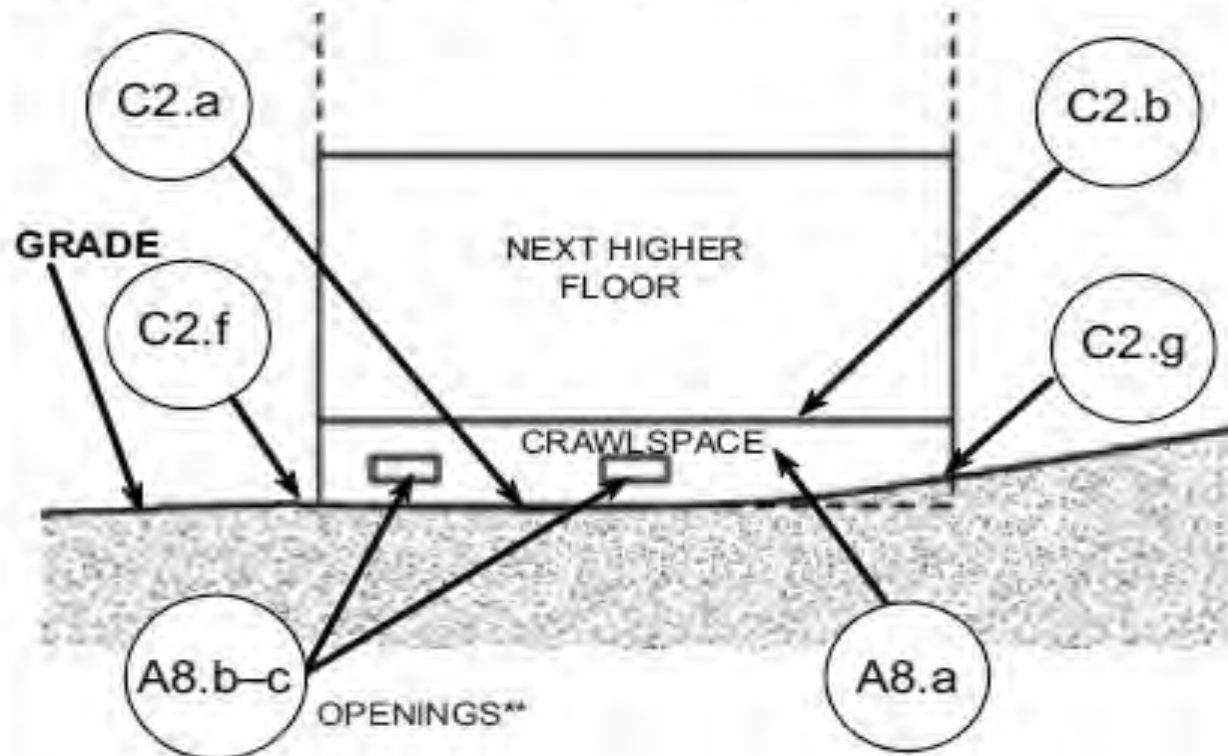


**The
Correct
Diagram
??**

DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least 1 side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A – Property Information.

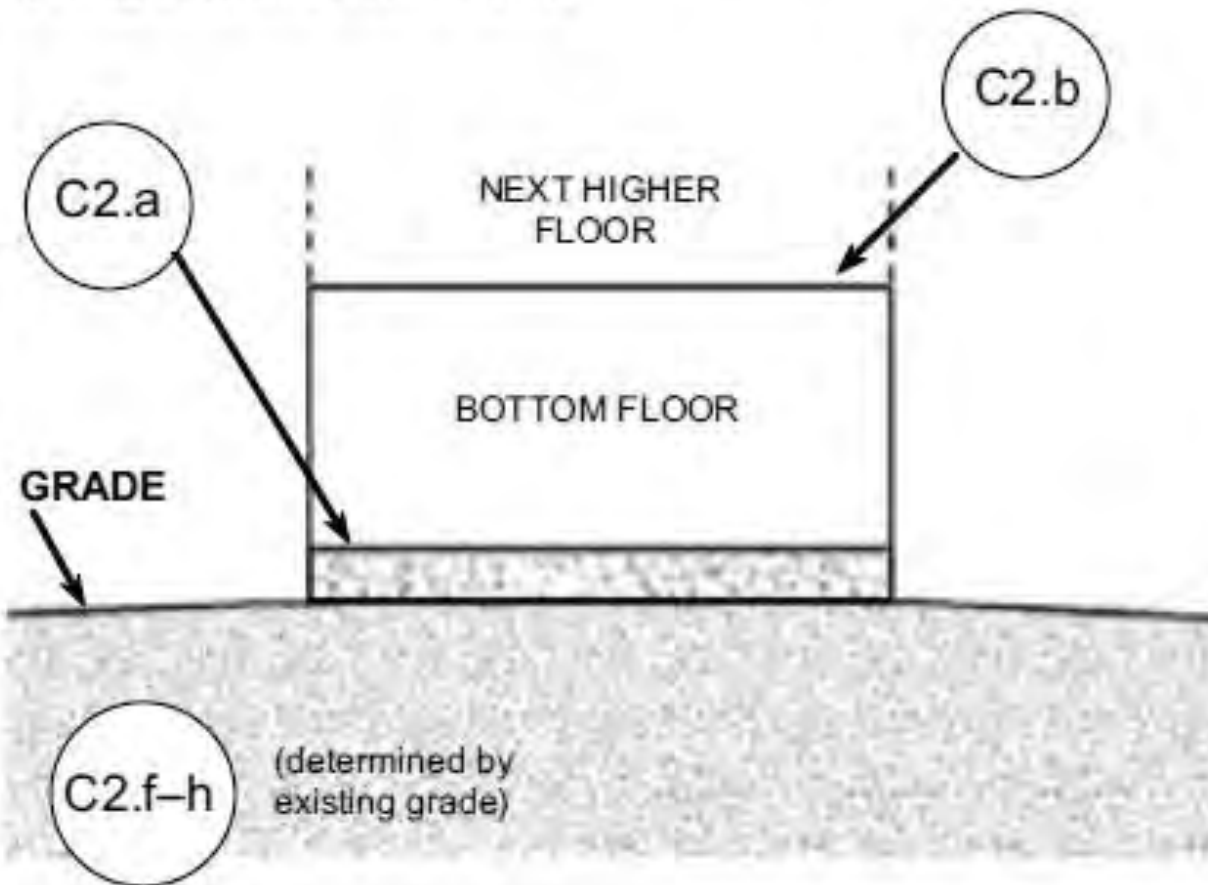


**The
Correct
Diagram
??**

DIAGRAM 1B

All raised-slab-on-grade or slab-on-stem-wall-with-fill single- and multiple-floor buildings (other than split-level), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor is at or above ground level (grade) on at least 1 side.*



NO
Enclosure/
No need
to
measure
building!

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 8

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s) 918 sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0

c) Total net area of flood openings in A8.b 0 sq in

d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:

a) Square footage of attached garage 440 sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0

c) Total net area of flood openings in A9.b 0 sq in

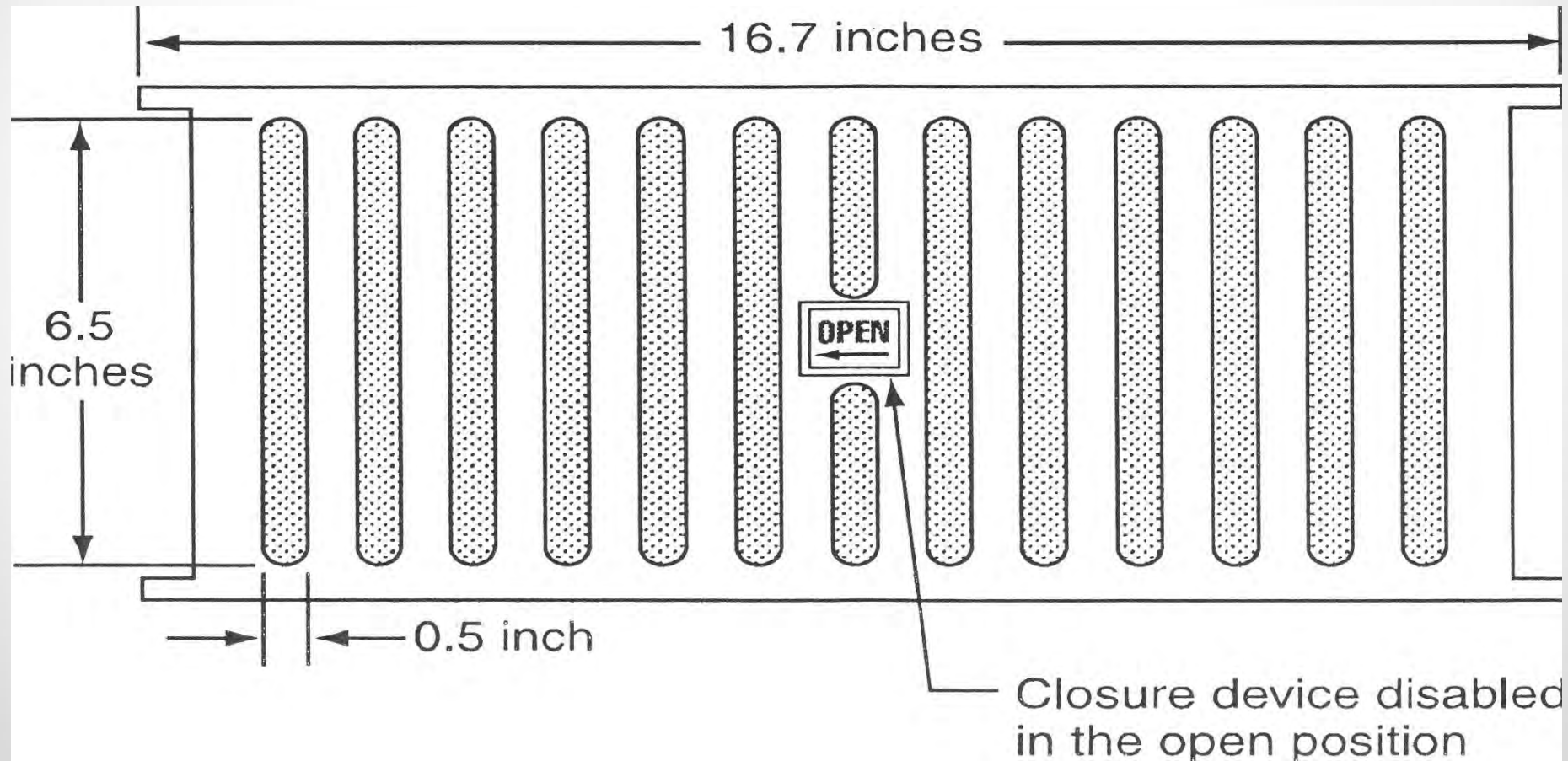
d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Harrison Township #260123			B2. County Name Macomb		B3. State Michigan
B4. Map/Panel Number 26099C0356	B5. Suffix H	B6. FIRM Index Date 11/20/2013	B7. FIRM Panel Effective/ Revised Date 12/04/2012	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 578.6'

Standard Vent

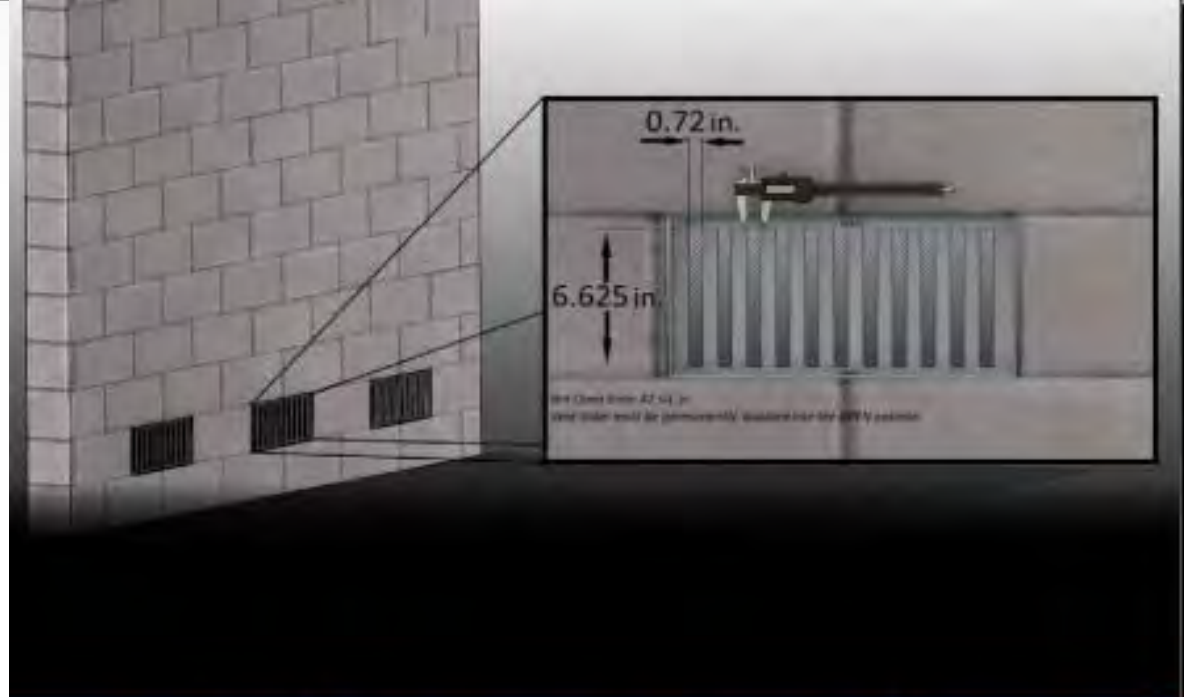
42 sq. in.



Vents

VS.

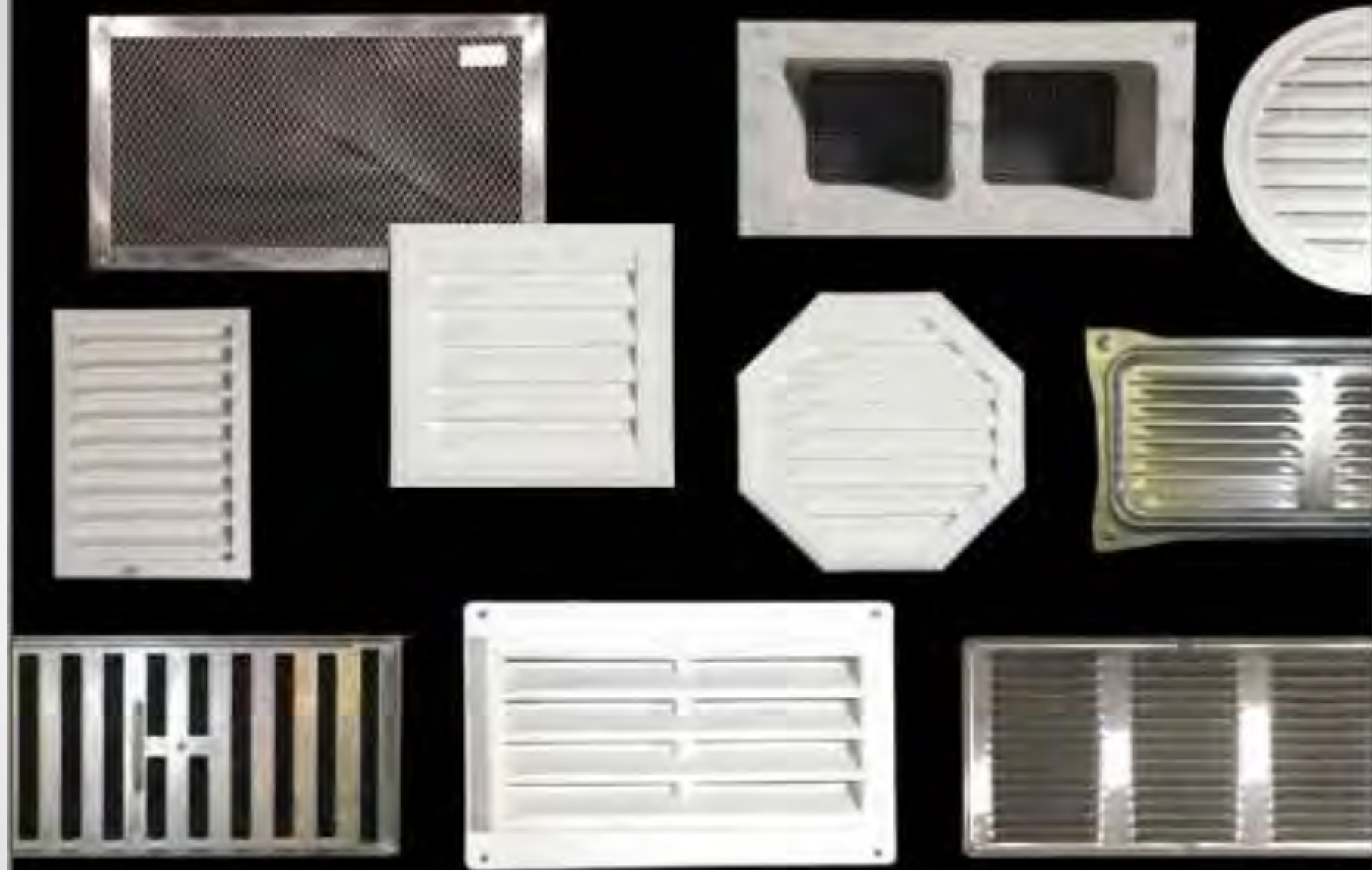
Flood Vents



NON-ENGINEERED OPENING GUIDE

To Assist in the Compliance and Measurement Documentation of
Non-Engineered Flood Openings for the Elevation Certificate in
Accordance with the National Flood Insurance Program

Non-Engineered Opening Guide – Vol. 1 / January 2015



NON-ENGINEERED OPENING GUIDE



FRONT FACE



BACK FACE

Material

Concrete

Dimensions

Width: 15.5 inches

Height: 7.5 inches
(excluding flange)

Net Open Area

32 sq. in.

Figure 3



FRONT FACE



BACK FACE

Material

Concrete Block Turned Side Ways

Compliance Notes

If used must have rodent screen attached per ICC Construction Codes.

Dimensions

Width: 15.5 inches

Height: 7.625 inches

Net Open Area

59 sq. in.

Figure 4

FOR OFFICIAL USE ONLY

Company Name _____

Certifier Name _____

Date of Elevation Certificate Completion _____

PLACE
SEAL
HERE

Non-Engineered Opening Agreement

for Owners of Structures in a Special Flood Hazard Area: A and V type zones

Subject Property Address: _____

Lot and Block Number: _____

Property Owner Name(s): _____

Property is in compliance with Non-Engineered Opening requirements? Yes ☐ No ☐

The property owner acknowledges and agrees to the following:

1. That they are an owner of the above property.
2. That they understand that the flood openings identified on the Elevation Certificate under section A8 and A9, when applicable, are Non-Engineered Openings intended for hydrostatic flood relief.
3. That they must remain open at all times and cannot be covered, closed off, or blocked in any way.
4. That modifications to these openings could result in a greater risk to their property and personal safety in addition to increased Flood Insurance costs.
5. At the time of the flood opening survey this property required _____ square inches of net open area. _____ Non-Engineered Openings were identified providing _____ square inches of flood venting relief.

Date

Signature of Property Owner

Date

Signature of Property Owner

DISCLAIMER: A copy of this agreement will be sent to the local municipality office for floodplain management purposes.

Flood Vent Certification

Company Name _____

Certifier Name _____

Date of Elevation Certificate Completion _____

PLACE
SEAL
HERE

Non-Engineered Opening Agreement

for Owners of Structures in a Special Flood Hazard Area: A and V type zones

Subject Property Address:

Lot and Block Number:

Property Owner Name(s):

Property is in compliance with Non-Engineered Opening requirements?

Yes

☐

No

☐

The property owner acknowledges and agrees to the following:

1. That they are an owner of the above property.

Property Owner Name(s):

Property is in compliance with Non-Engineered Opening requirements?

Yes

☐

No

☐

The property owner acknowledges and agrees to the following:

1. That they are an owner of the above property.
2. That they understand that the flood openings identified on the Elevation Certificate under section A8 and A9, when applicable, are Non-Engineered Openings intended for hydrostatic flood relief.
3. That they must remain open at all times and cannot be covered, closed off, or blocked in any way.
4. That modifications to these openings could result in a greater risk to their property and personal safety in addition to increased Flood Insurance costs.
5. At the time of the flood opening survey this property required _____ square inches of net open area. _____ Non-Engineered Openings were identified providing _____ square inches of flood venting relief.

Date

Signature of Property Owner

Date

Signature of Property Owner

DISCLAIMER: A copy of this agreement will be sent to the local municipality office for floodplain management purposes.