

ELEVATION CERTIFICATE COPY

OMB No. 1660-0008
 Expiration Date: July 31, 2015

IMPORTANT: Follow the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name CITY OF MONROE		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 818 VILLAGE WAY		Company NAIC Number:
City MONROE	State WA	ZIP Code 98272
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) PARCEL 1, MONROE BLA #BA2006042, A.F. NO. 200702285107 APN 27061200201100		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY RESTROOM		
A5. Latitude/Longitude: Lat. 47 847876° Long. 121.980943° 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 1A		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) 520 sq ft		a) Square footage of attached garage NA sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade NA
c) Total net area of flood openings in A8.b 0 sq in		c) Total net area of flood openings in A9.b NA sq in
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number CITY OF MONROE 530169		B2. County Name SNOHOMISH		B3. State WASHINGTON	
B4. Map/Panel Number 53061C1376	B5. Suffix F	B6. FIRM Index Date 09/16/2005	B7. FIRM Panel Effective/Revised Date 09/16/2005	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 54.1
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: CURRENT AND PROPOSED FIS - SEE ATTACHED					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ / _____ / _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)	
C1. Building elevations are based on: <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input checked="" type="checkbox"/> Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.	
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: USGS PTS5 Vertical Datum: NGVD29 Indicate elevation datum used for the elevations in items a) through h) below. <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____ Datum used for building elevations must be the same as that used for the BFE.	
Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 58 . 9	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor NA	<input type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only) NA	<input type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab) NA	<input type="checkbox"/> feet <input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 58 . 9	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG) 58 . 3	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG) 58 . 4	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 58 . 3	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION			
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.			
<input checked="" type="checkbox"/> Check here if comments are provided on back of form.		Were latitude and longitude in Section A provided by a licensed land surveyor? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Check here if attachments.			
Certifier's Name JAMES B. McDANIEL	License Number WA PLS 21359		
Profession PROFESSIONAL LAND SURVEYOR	Company Name HARMSEN	City MONROE	State WA
Address P.O. BOX 516	City MONROE	State WA	ZIP Code 98272
Signature <i>James B. McDaniel</i>	Date 08/20/2013	Telephone (360) 794-7811	



ELEVATION CERTIFICATE, page 2

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 818 VILLAGE WAY			Policy Number:
City MONROE	State WA	ZIP Code 98272	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

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

Comments B9 REFER TO ATTACHED BFE CALCULATIONS. C2e ALL MECHANICAL AND ELECTRICAL IS AT OR ABOVE THE FINISH FLOOR C2a. C2h IS C2f. COPY OF CURRENT FIRMETTE, FLOODWAY DATA, AND PROFILE; PROPOSED FIRM, FLOODWAY DATA, AND PROFILE; NAVD-NGVD CONVERSION; BFE DETERMINATION, AND PHOTOS ARE ATTACHED TO AND PART OF THIS CERTIFICATE.

Signature  Date 08/20/2013

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ . _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ . _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ . _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name _____

Address _____	City _____	State _____	ZIP Code _____
Signature _____	Date _____	Telephone _____	

Comments _____

Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4–G9) is provided for community floodplain management purposes.

G4. Permit Number _____	G5. Date Permit Issued _____	G6. Date Certificate Of Compliance/Occupancy Issued _____
-------------------------	------------------------------	---

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ . _____ feet meters Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ . _____ feet meters Datum _____
- G10. Community's design flood elevation: _____ . _____ feet meters Datum _____

Local Official's Name _____	Title _____
Community Name _____	Telephone _____
Signature _____	Date _____

Comments _____

Check here if attachments.



City of Monroe Page 1 of 2
Skykomish River Park
Miracle Field Restrooms
818 Village Way
Monroe WA 98272
Assessor Parcel No. 27061200201100

Date of photography: Aug 15, 2013
By Harmsen
P.O.Box 516
Monroe WA` 98272

Northwest and northeast sides of
restroom structure. View is to the
south.



Southwest side of restroom structure.



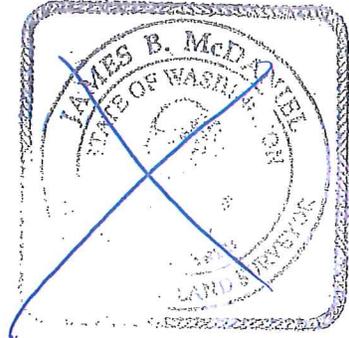
Southeast side of restroom structure.





City of Monroe Page 2 of 2
Skykomish River Park
Miracle Field Restrooms
818 Village Way
Monroe WA 98272
Assessor Parcel No. 27061200201100

Interior central corridor of restroom structure.



8/2/13

City of Monroe
 Skykomish River Park
 818 Village Way
 Miracle Field Restrooms
 Monroe WA 98272
 APN 270612 002 011 00

**Base Flood Elevation (BFE) Calculation per current FIS dated Sep. 16, 2005
 (NGVD 1929)**

Cross Section	river mile	distance	BFE
F	24.52		51.7
		0.13 mi.	
Restroom	24.65		52.8'
		0.35 mi.	
G	25.00		55.6'

At the structure, the distance between cross-sections F and G is 0.48 miles. Per FIS profile, slope is flat between F and G. By interpolation, the BFE at the structure is 52.8'

Base Flood Elevation (BFE) Calculation per proposed FIS (NAVD 1988)

Cross Section	river station	distance	BFE
Q	18,216'		55.8'
		1314'	
Restroom	19,530'		57.8' (from profile)
		1379'	
R	20,909'		58.4'

At the structure, the distance between cross-sections Q and R is 2693'. Per FIS profile, BFE slope is uneven between Q and R, so interpolation will not work for determining BFE. Plotting the building site on the profile yields a BFE of 57.8'.

Conversion from NAVD 1988 to NGVD 1929:

NAVD 1988 - 3.7' = NGVD 1929

57.8' NAVD - 3.7' = 54.1' NGVD

CONCLUSION: the BFE on the proposed FIS is 1.3' above the BFE on the current FIS.

Using the most restrictive value for the BFE

BFE = 54.1' NGVD29

= 57.8' NAVD88

8.20.2013

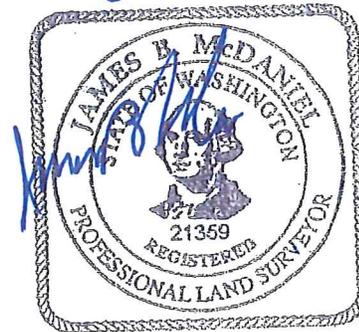


Table 9. Conversion Factors for Flooding Sources

<u>Flooding Source</u>	<u>Elevation</u> <u>(feet NAVD above NGVD)</u>
<u>Riverine Studies</u>	
Canyon Creek	+3.8
Ebey Slough	+3.7
Ebey-Steamboat Slough Connector	+3.7
Hat Slough	+3.7
Marshland	+3.7
May Creek	+3.8
North Creek	+3.7
North Fork Skykomish River	+3.9
North Fork Stillaguamish River	+3.8
Pilchuck River	+3.7
Sauk River	+3.8
Scriber Creek	+3.6
Skykomish River	+3.7
<hr/>	<hr/>
Snohomish River	+3.7
Snoqualmie River	+3.6
South-Cook Slough	+3.7
South Fork Stillaguamish River	+3.8
Steamboat Slough	+3.7
Stillaguamish River/Lower Stillaguamish River	+3.7
Sultan River	+3.7
Swamp Creek	+3.6
Union Slough	+3.7
Wallace River	+3.7
<u>Tidal Areas</u>	
Port Susan	+3.7
Possession Sound	+3.8
Puget Sound	+3.6
Skagit Bay	+3.7
Snohomish River	
At Ebey and Steamboat Sloughs	+3.7
Stillaguamish River	
Near 84th Avenue NW, at City of Stanwood	+3.7