

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Rick and Rachel Stucky		For Insurance Company Use Policy Number Company NAIC Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 and 101 Silverwood Lane. City Silverton State OR ZIP Code 97381		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) TSS, R1W, Section 01CC .tax lot 3200		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u> <i>Bridge</i>		
A5. Latitude/Longitude: Lat. <u>N44.985</u> Long. <u>W122.763</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>5</u>		
A8. For a building with a crawspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawspace or enclosure(s) <u>None</u> sq ft		a) Square footage of attached garage <u>None</u> sq ft
b) No. of permanent flood openings in the crawspace or enclosure(s) within 1.0 foot above adjacent grade <u>None</u>		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>None</u>
c) Total net area of flood openings in A8.b <u>None</u> sq in		c) Total net area of flood openings in A9.b <u>None</u> 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 <i>Marion</i> City of Silverton, Comm # 440168 and 410164 <i>Co. 41054</i>		B2. County Name Marion	B3. State OR
B4. Map/Panel Number 382 of 1150, map 41047CO382 G	B5. Suffix G	B6. FIRM Index Date <u>1-2-03</u>	B7. FIRM Panel Effective/Revised Date Jan 19, 2000
B8. Flood Zone(s) AE		B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 316.0	

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
 FIS Profile FIRM Community Determined Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No
Designation Date _____ CBRS OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* 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. Use the same datum as the BFE.
Benchmark Utilized RM171 Vertical Datum 280.03
Conversion/Comments Elevation brought to site by Randy Scott, PLS #2265 from RM171

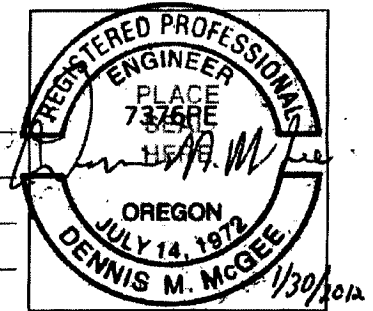
Check the measurement used.

a) Top of bottom floor (including basement, crawspace, or enclosure floor)	<u>318.42</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	<u>None</u>	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>316.87</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	<u>None</u>	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>None</u>	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	<u>307.20</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	<u>320.76</u>	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>See Exhbi.</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)

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.
Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No

Certifier's Name Dennis M. McGee	License Number 7376
Title President	Company Name McGee Engineering, Inc
Address 802 NW Buchanan	City Corvallis State OR ZIP Code 97330
Signature <i>Dennis M. McGee</i>	Date 1/30/2012 Telephone (541) 757-1270



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. 102 and 101 Silverwood Lane	Policy Number
City SilvertonState OR ZIP Code 97381	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 As this is not a building, but a bridge, some items called for on form were confusing. To eliminate concern about the bridge, its elevations, and relations to surrounding property, we have included an Exhibit Sheet attached to the "Building Photographs" sheet. Additionally reduced plan and elevation of the bridge are attached, with the Certificate of No-Rise prepared in 2011. Additionally, the sheet of the FIRM, Marion County OR and Incorporated Areas Panel 382 of C150, Map Number 41047C0382 is included in case the information in Section B is inadvertently inappropriately entered.

Signature Dennis M. McGee Date 1/30/2012 Check here if attachments

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 0.0 feet meters above or below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 11.22 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 none feet meters above or below the HAG.
- E3. Attached garage (top of slab) is none feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is none 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's or Owner's Authorized Representative's Name
Dennis M. McGee

Address 802 NW Buchanan Ave City Corvallis State OR ZIP Code 97330

Signature Dennis M. McGee Date 1/30/2012 Telephone 541-757-1270

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 and G9.

- 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
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- 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 (PR) Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ feet meters (PR) Datum _____
- G10. Community's design flood elevation _____ feet meters (PR) Datum _____

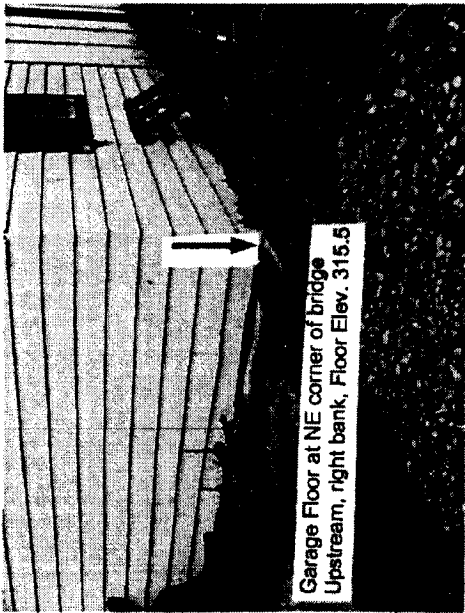
Local Official's Name _____ Title _____

Community Name _____ Telephone _____

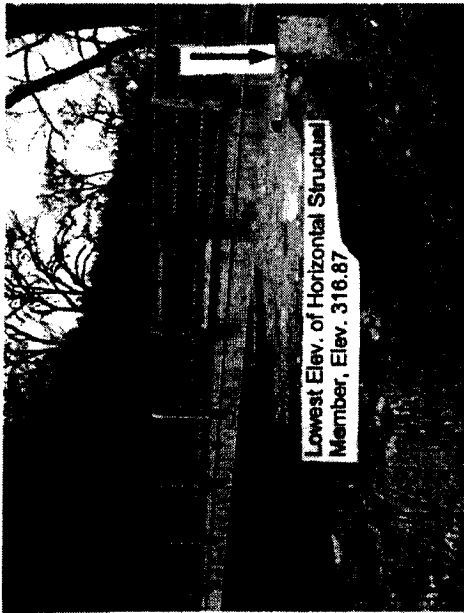
Signature _____ Date _____

Comments

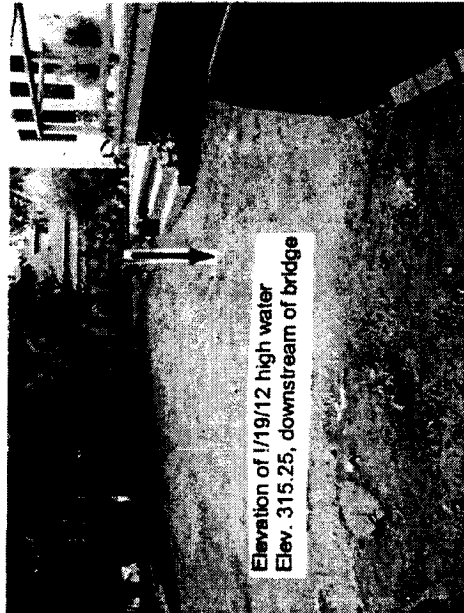
Check here if attachments



Garage Floor at NE corner of bridge
Upstream, right bank, Floor Elev. 315.5



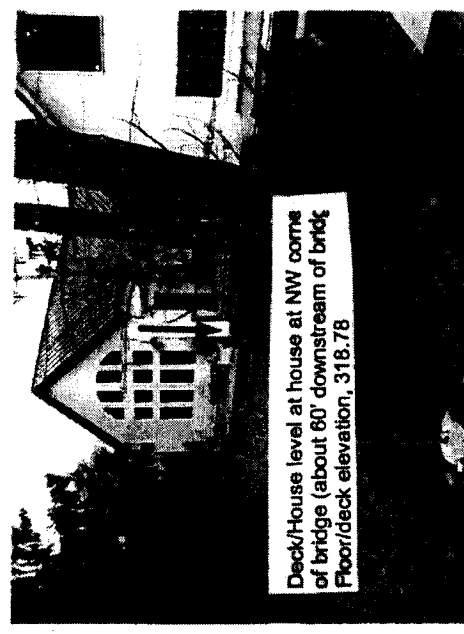
Lowest Elev. of Horizontal Structural
Member, Elev. 316.87



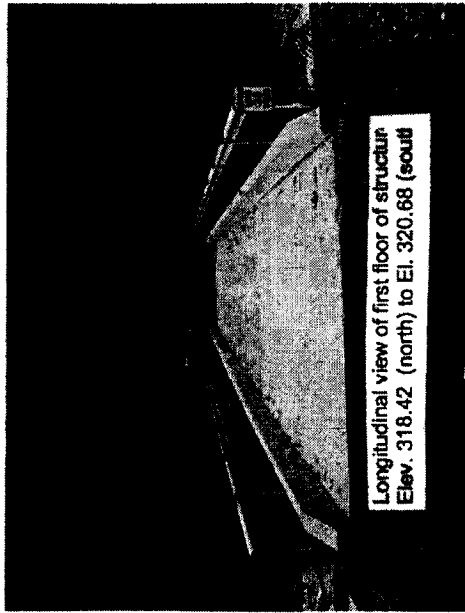
Elevation of 1/19/12 high water
Elev. 315.25, downstream of bridge



Floor/Deck Elevation, house at NE
corner of bridge, Floor Elev. 319.87



Deck/House level at house at NW corner
of bridge (about 60' downstream of bridge
Floor/deck elevation, 318.78

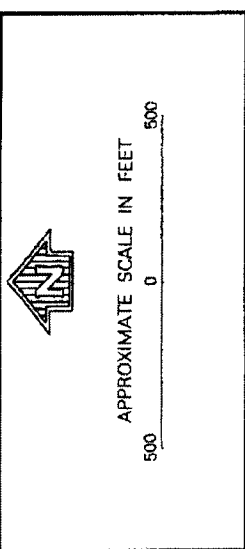


Longitudinal view of first floor of structure
Elev. 318.42 (north) to Ei. 320.68 (south)



Garage Floor at NW corner of bridge
10' downstream of bridge Ei. 318.17





NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
 MARION COUNTY,
 OREGON AND
 INCORPORATED AREAS

PANEL 302 OF 1159
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

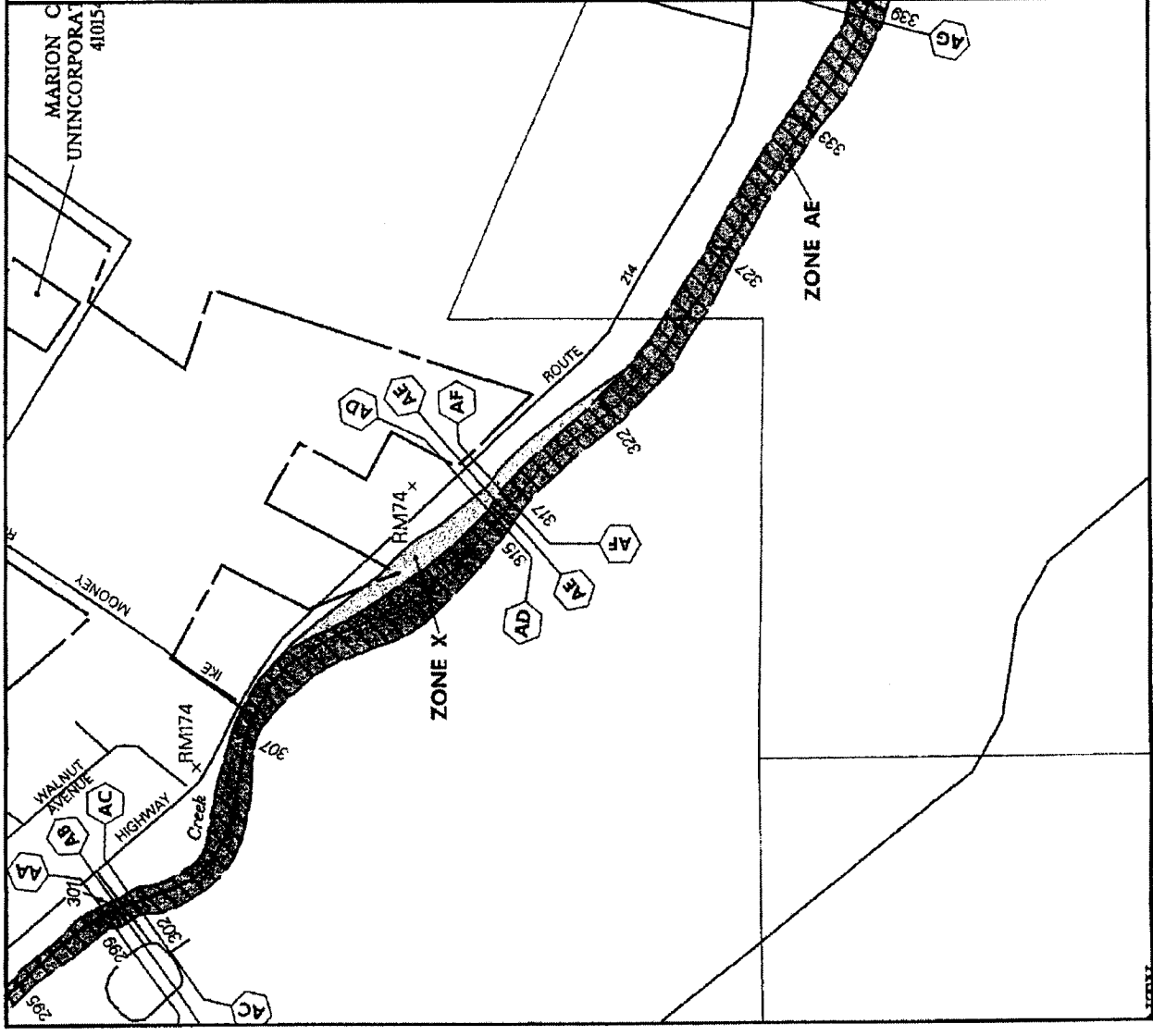
CONTAINS:	NUMBER	PANEL	SUFFIX
SECTION, CITY OR	0000	0000	0
MARION COUNTY,	0004	0000	0
UNINCORPORATED AREAS			

MAP NUMBER
4104760382 G

EFFECTIVE DATE:
JANUARY 19, 2000

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.fema.gov



McGee Engineering

P.O. Box 1067, Corvallis, OR 97339
Fax: (541)758-6585 Phone: (541)757-1270
www.mcgee-engineering.com

February 16, 2011

Technical Supplement – Engineering No-Rise Certification
101 Silverwood Lane, Silverton, OR

The replacement of the destroyed residence-access bridge has produced the following change of conditions with respect to backwater rise at Base Flood on Silver Creek, at 101 Silverwood Lane, as shown on the Flood Information Rate Map (FIRM) of January 19, 2000 (Map 41047C0382 G).

Initial condition: (At January 19, 2000 preparation of FIRM)

Local BFE, El 316.0
505 S.F site profile flow area at Base Flood
Soffit of existing bridge at el. 317.2
Hydraulic radius at max. constriction: 6.73'

Condition after proposed replacement

Local BFE, El 316.0
553.5 BFE
Soffit of existing bridge at el. 317.74 (ave.)
Hydraulic radius at max. constriction: 6.75'

The condition attributes shown (after proposed replacement) are due to:

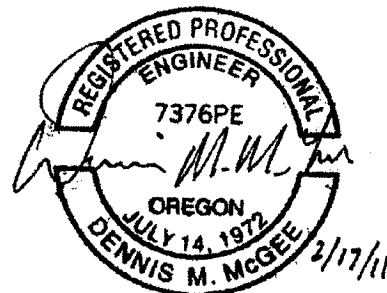
Removal of pier shaft in the river span (negative 6.5 S.F below BFE)
Removal of wingwall and fill at right overbank flow (negative 30 S.F below BFE)
Wingwall replaced with new span (superstructure above BFE)

Summary:

Local river constriction site attributes will require no revisions to original FIS step-backwater modeled to develop the FIRM of January 19, 2000. The Manning coefficients and hydraulic radius remain similar to previous condition. The soffit height (lowest structure feature) above BFE is improved approximately 0.5'.

Attached:

Reduced Bridge Profile Sheet (8 x 11)
Copy of FIRM, January 19,2000



EXPIRATION DATE: 12/31/2012

McGee Engineering

P.O. Box 1067, Corvallis, OR 97339
Fax: (541)758-6585 Phone: (541)757-1270
dennismcgee@mcgee-engineering.com

February 18, 2011

Marion County Planning
PO Box 14500
Slaem, OR 97309

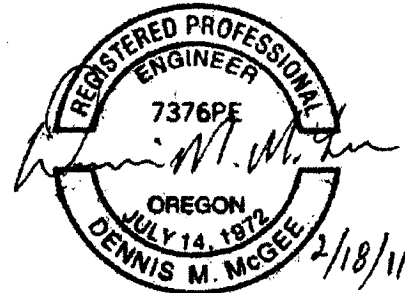
ATTN: Brandon Reich
RE: Floodplain Certifications for Marion County Floodplain Permits
Bridge Replacement at 101 Silverwood Lane, Silverton, OR

I certify that the development will not result in an increase in floodplain area on other properties and will not result in an increase in erosive velocity of the stream that may cause channel scouring or reduce slope stability downstream of the development.

An extension of the basis of this certification is attached hereto, and is excerpted from the mandated Engineering "No-Rise" Certification technical supporting data previously submitted.

Dennis M. McGee, P.E.
Oregon PE 7376, Registration Date 1972

ENCL: Technical Supplement (1) 8 x 11 page



EXPIRATION DATE: 12/31/2012



APPROXIMATE SCALE IN FEET

500 _____ 0 _____ 500

45

ELEVATION REFERENCE MARKS
REFERENCE ELEVATION MARK (FEET NGVD) DESCRIPTION OF LOCATION

- RM74 313.43 From Silverton City Hall 90 southeast on Water Street (Highway 214) 1.5 miles; bench mark is a U.S. Government brass disk, 4 feet north of highway at a slight curve to left, 50 feet east of an unnamed street across highway from most easterly trailer in a small trailer park; bench mark is stamped 1935 JAG (USACE, Portland office).
- RM75 337.697 From Silverton City Hall 90 southeast on Water Street (Route 214) 2.2 miles; bench mark is a USC&GS brass cap in concrete post 24 feet north of highway, 30 feet east of asphalt drive leading to house, and 500 feet west of plumb at which highway begins to climb steeply; bench mark is stamped LC67 1950 338.
- RM171 280.03 Westerly bolt on top of fire hydrant, directly above the letter "W" in the words "The Covey," at the southwest corner of the intersection of Water Street (State Highway 214) and Central Street. CH2M HILL, inc. (TBM SC5).
- RM172 284.34 Easterly bolt on top of fire hydrant, directly above the letter "H" in the words "The Covey," at the northwest corner of the intersection of Water Street (State Highway 214) and Smith Street. CH2M HILL, inc. (TBM SC4).
- RM173 297.68 6-inch spike in power pole no. 575, on south side of Water Street (State Highway 214) in front of retirement home. CH2M HILL, inc. (TBM SC3).
- RM174 322.82 6-inch spike in north face of power pole no. 538, on north side of Water Street (State Highway 214), across from southwest corner of lot of Kingdom Hall of Jehovah's Witness. CH2M HILL, inc. (TBM SC7).

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
MARION COUNTY,
OREGON AND
INCORPORATED AREAS

PANEL 382 OF 1150

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:
COMMUNITY

NUMBER PANEL SURFACE

AREA DATE AREA DATE

6 6
 5 5

SUBSTANTIATED BY
MARION COUNTY,
UNINCORPORATED AREAS

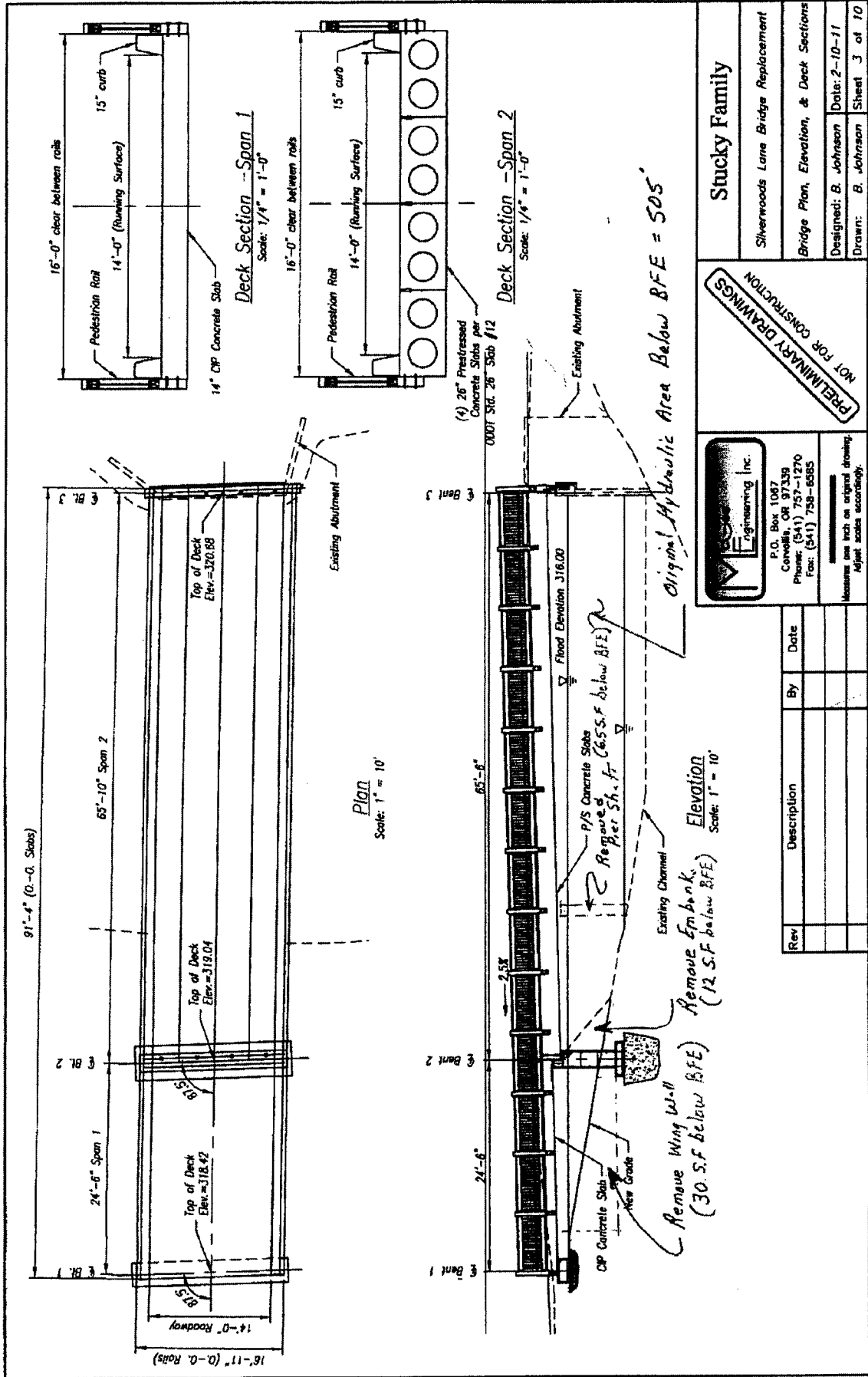
MAP NUMBER
41047C0382 G

EFFECTIVE DATE:
JANUARY 19, 2000



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM 10-11-01. The map does not reflect changes the community has made since the date of the map. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.fema.gov.



PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

M Engineering Inc.

P.O. Box 1087
Corvallis, OR 97339
Phone: (541) 757-1270
Fax: (541) 738-6585

Measure one inch on original drawing.
Adjust scales accordingly.

Rev	Description	By	Date

Stucky Family

Silverwoods Lane Bridge Replacement

Bridge Plan, Elevation, & Deck Sections

Designed: B. Johnson Date: 2-10-11

Drawn: B. Johnson Sheet 3 of 10