

# Memorandum

DATE February 13, 2020

TO Dillon Dittmer, Chris Dowding, Bruce Barrett, Jeff Hartman

FROM Robert Carnazzo

THRU Julie Ramirez and Jason Dayton

SUBJECT Floodplain Certification—Auburn North, 75-1(109), CN 13401

Auburn is a shoulder reconstruction project located along Highway US-75 in Nemaha and Otoe Counties, Nebraska. The project begins just north of Nemaha County Road 730 (Mile Marker (MM) 28.80) and extends north to the start of the four lane highway approximately 1700 feet south of Otoe County Road N (Highway N-128) (MM 42.20).

The improvements on this project consist of removing and replacing surfaced shoulders from Nemaha County Road 730 to the south junction of US-75 with Highway N-67, and installing centerline rumble strips from the south junction of US-75 and N-67 to south of Otoe County Road N. No other work is planned. There will be no change in the pavement overtopping elevation.

Please review the attached mapping showing where this project encroaches into flood zones. Enclosed you will find certifications for these encroachments:

#### Community of Nemaha County

#### **Little Nemaha River, S075 02868 & S075 02880 & S075 02894 & S075 02919 & S075 02937, Sections 15, 10, and 04 T05N R14E**

The project encroaches the Base Floodplain for the Little Nemaha River in Sections 15, 10 and 04 T05N R14E. The river's ordinary high water flow is conveyed through the highway by five (5) bridge structures; a 143-foot long bridge south of Nemaha County Road 730 (S010 02868), a 143-foot long bridge north of Nemaha County Road 730 (S010 02880), 143-foot long bridge 1200 feet south of the Little Nemaha River (S010 02894), 463-foot long bridge over the Little Nemaha River (S010 02919), and a 143-foot long bridge 900 feet north of the Little Nemaha River (S010 02937). Through this floodplain the project will complete the removal and replacement of the highway shoulders. No other work is planned, and there will be no change in the pavement overtopping elevation. No bridge work is planned. Since the project will not affect a change in the River's conveyance through the five (5) bridge structures, or over the highway itself, the project will not affect the depth of flow in the river. The project will not cause a change in the base flood elevation of the Little Nemaha River.

Enclosures: Certificates of Compliance (1)  
FIRMettes covering project (6)

February 13, 2020

**Permit Information:**

Community of Nemaha County

**Little Nemaha River, S075 02868 & S075 02880 & S075 02894 & S075 02919 & S075 02937, Sections 15, 10, and 04 T05N R14E**

Is the work substantial improvement?	No
Is the work in an identified floodplain?	Yes
Elevation of the base flood (100-year event)?	No Change
Elevation/floodproofing requirement (if applicable)?	NA
Is the work in a designated floodway?	No

*Certification of Compliance  
Floodplain and Floodway Regulations*

FLOODPLAIN/ FLOODWAY LOCATION

Project Name Auburn North Stream Little Nemaha River  
Project No. 75-1(109) County Nemaha  
Control No. 13401 Section(s) 15, 10, 4 T 05 N R 14 E

FEMA LOCATION

County/Community Nemaha County, Nebraska  
Panel No. 310460 0025A  
Effective Date 04/02/1992

TYPE OF STRUCTURE

☒ Bridge ☐ Culvert ☐ Roadway  
Structure No. S075 02868 ☐ S075 02880/S075 02894/S075 02919/S075 02937

TYPE OF IMPROVEMENT

☐ Modify Existing ☐ Replace Existing ☒ Other

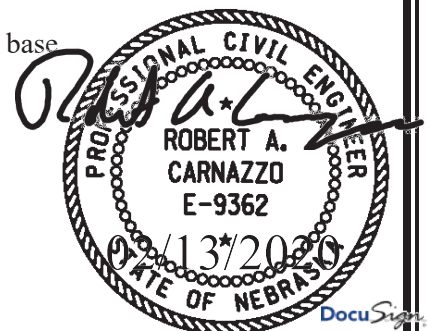
Details Remove and replace highway shoulders. No bridge work.

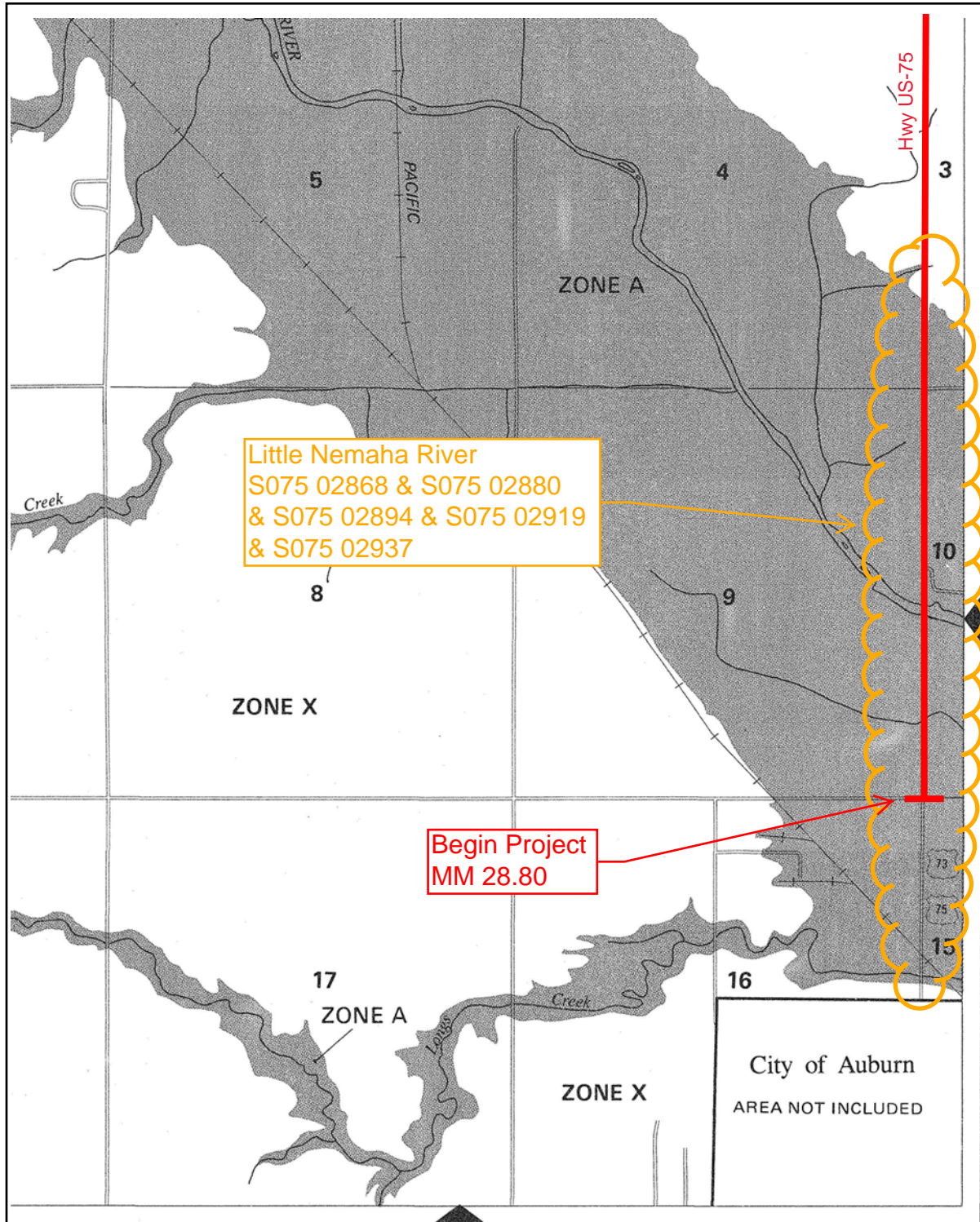
Highway Profile Change: ☐ Yes ☒ No

THE FOLLOWING IS HEREBY CERTIFIED

- ☐ Floodplain in Un-mapped Community (State Minimum Standards Apply)  
Proposed construction will not increase the base  
(100 year) flood heights more than one foot at any location.
- ☒ Floodplain (without Designated Floodway) or Flood Fringe  
Proposed construction will not increase the base  
(100 year) flood heights more than one foot at any location.
- ☐ Designated Floodway  
Proposed construction will result in no rise along the base  
(100 year) floodway water surface profile.

Completed By: ROBERT A. CARNAZZO, P.E., CFM  
NDOT Roadway Design Hydraulics

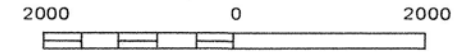




the National Flood Insurance Program at (800) 638-6620.



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

# **FIRM** FLOOD INSURANCE RATE MAP

**NEMAHA COUNTY,  
NEBRASKA**  
(UNINCORPORATED AREAS)

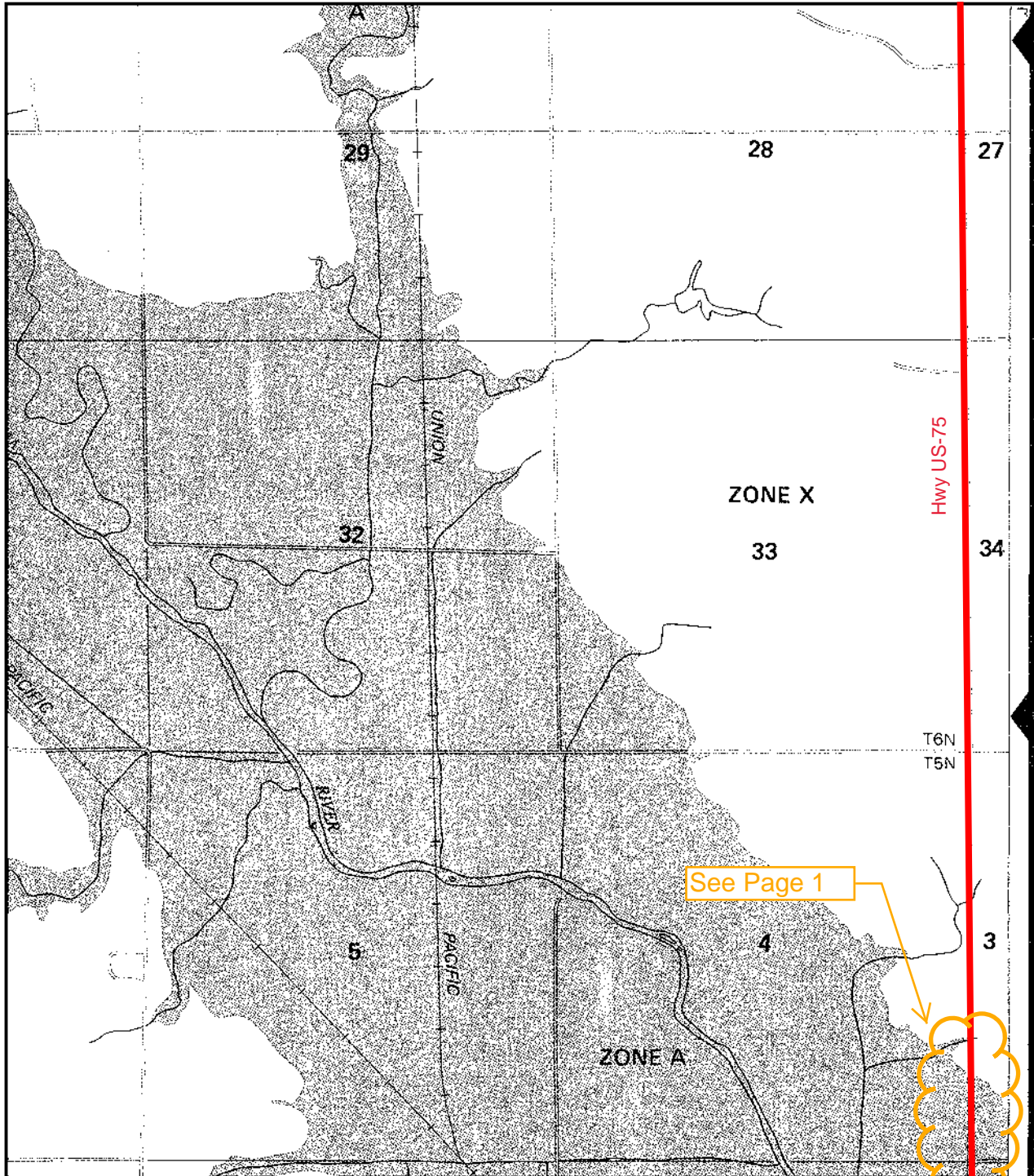
PANEL 25 OF 125

COMMUNITY—PANEL NUMBER:  
310460 0025 A  
EFFECTIVE DATE:  
APRIL 2, 1992



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRMette - Desktop version 3.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at <http://www.msc.fema.gov/>.



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

NEMAHA COUNTY,  
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PANEL 25 OF 125

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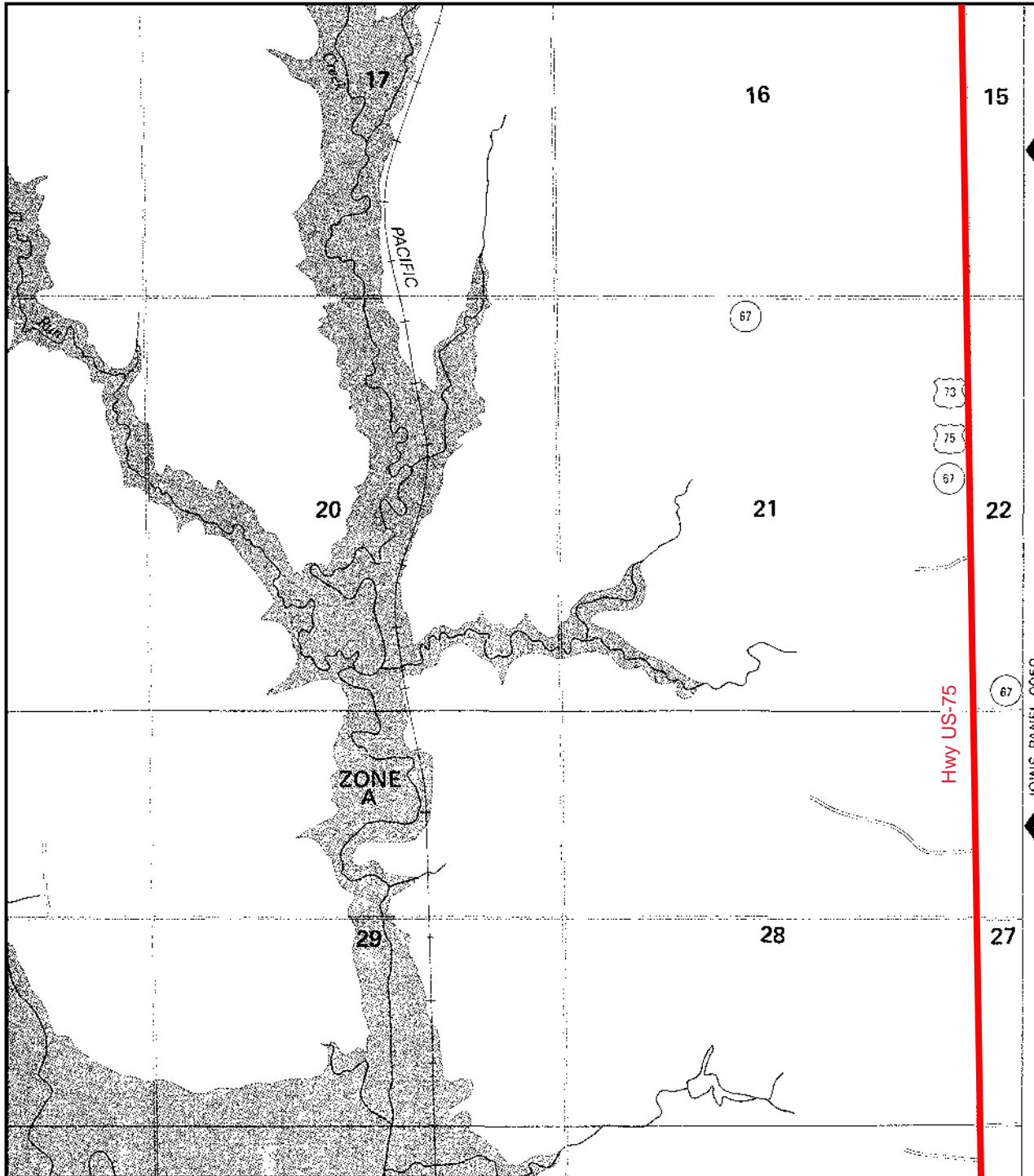
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APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
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PANEL 25 OF 125

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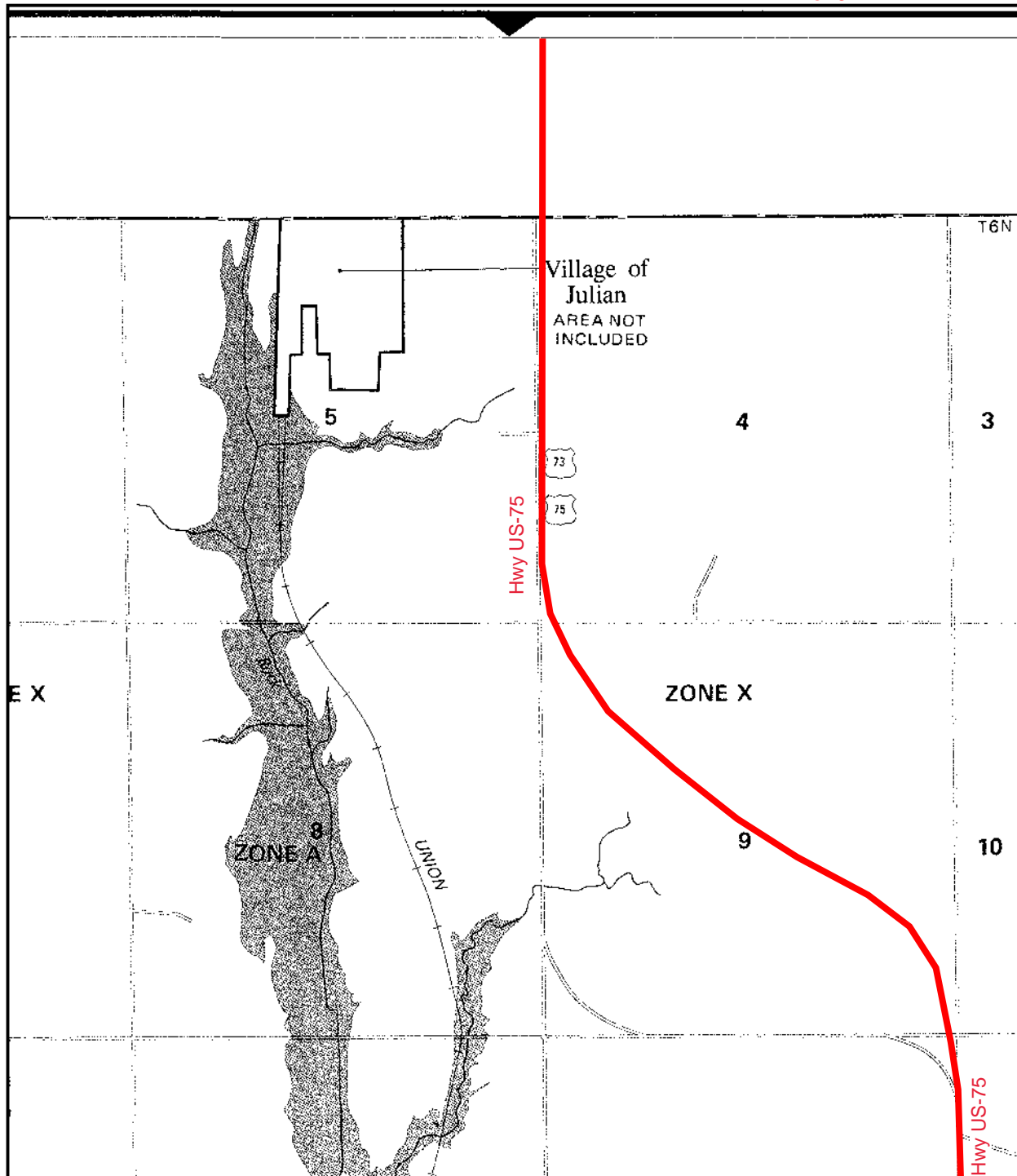
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NATIONAL FLOOD INSURANCE PROGRAM

# **FIRM**

## **FLOOD INSURANCE RATE MAP**

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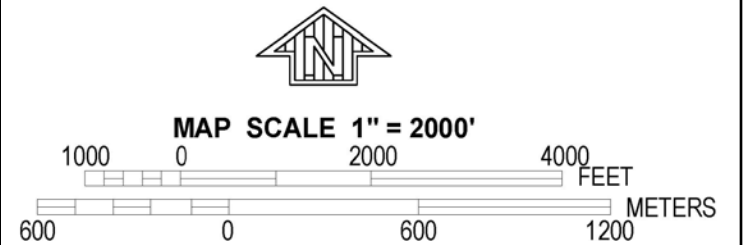
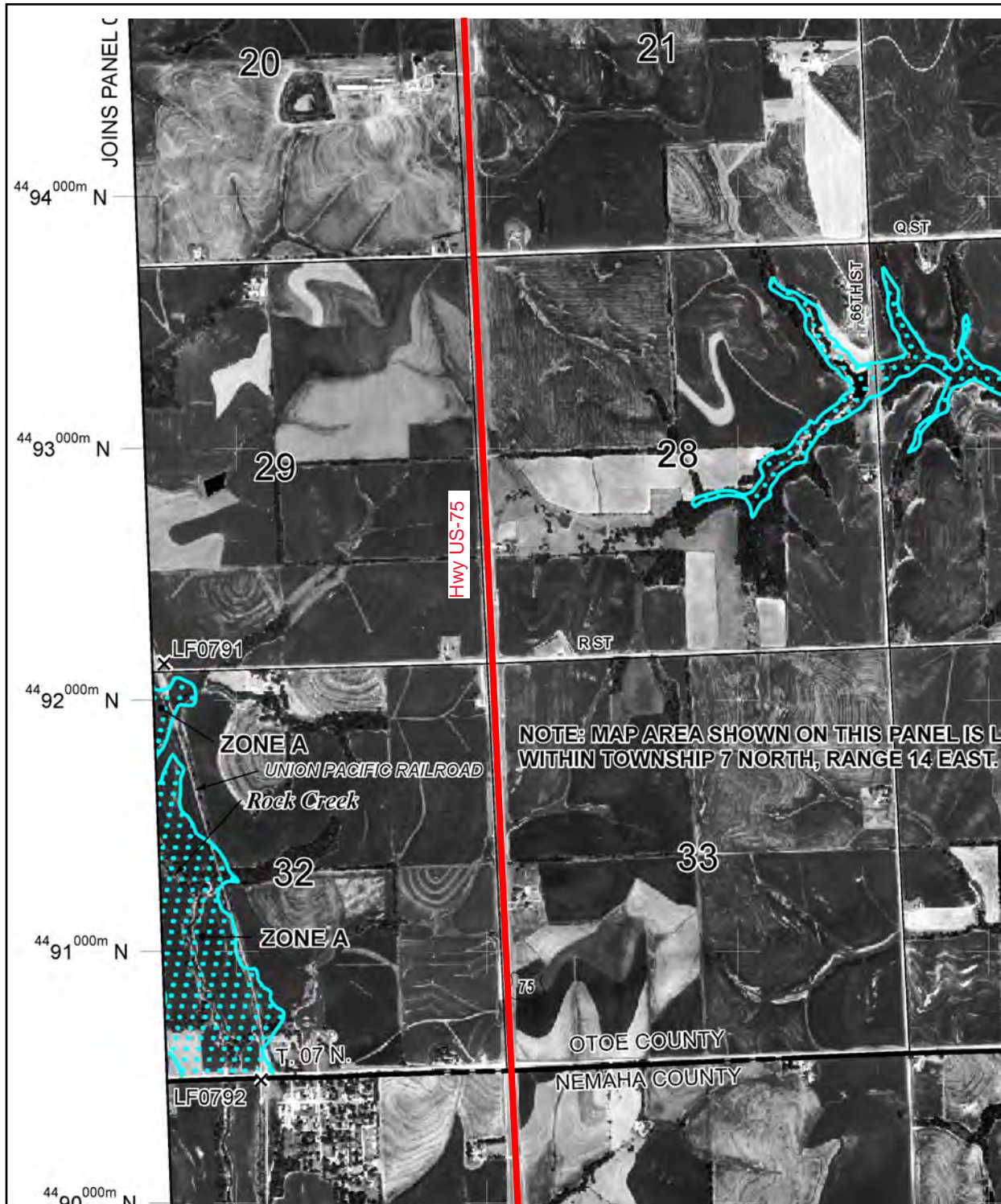
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NFIP

PANEL 0450D

**FIRM****FLOOD INSURANCE RATE MAP****OTOE COUNTY,  
NEBRASKA****AND INCORPORATED AREAS****PANEL 450 OF 465**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:COMMUNITYNUMBERPANELSUFFIX

OTOE COUNTY

310462

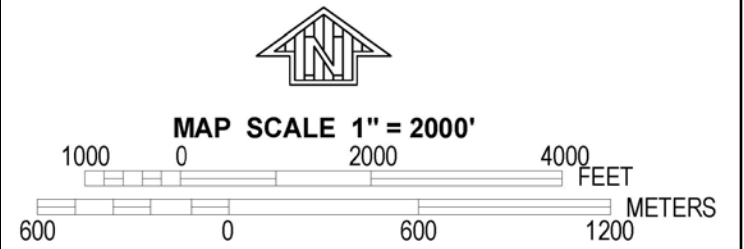
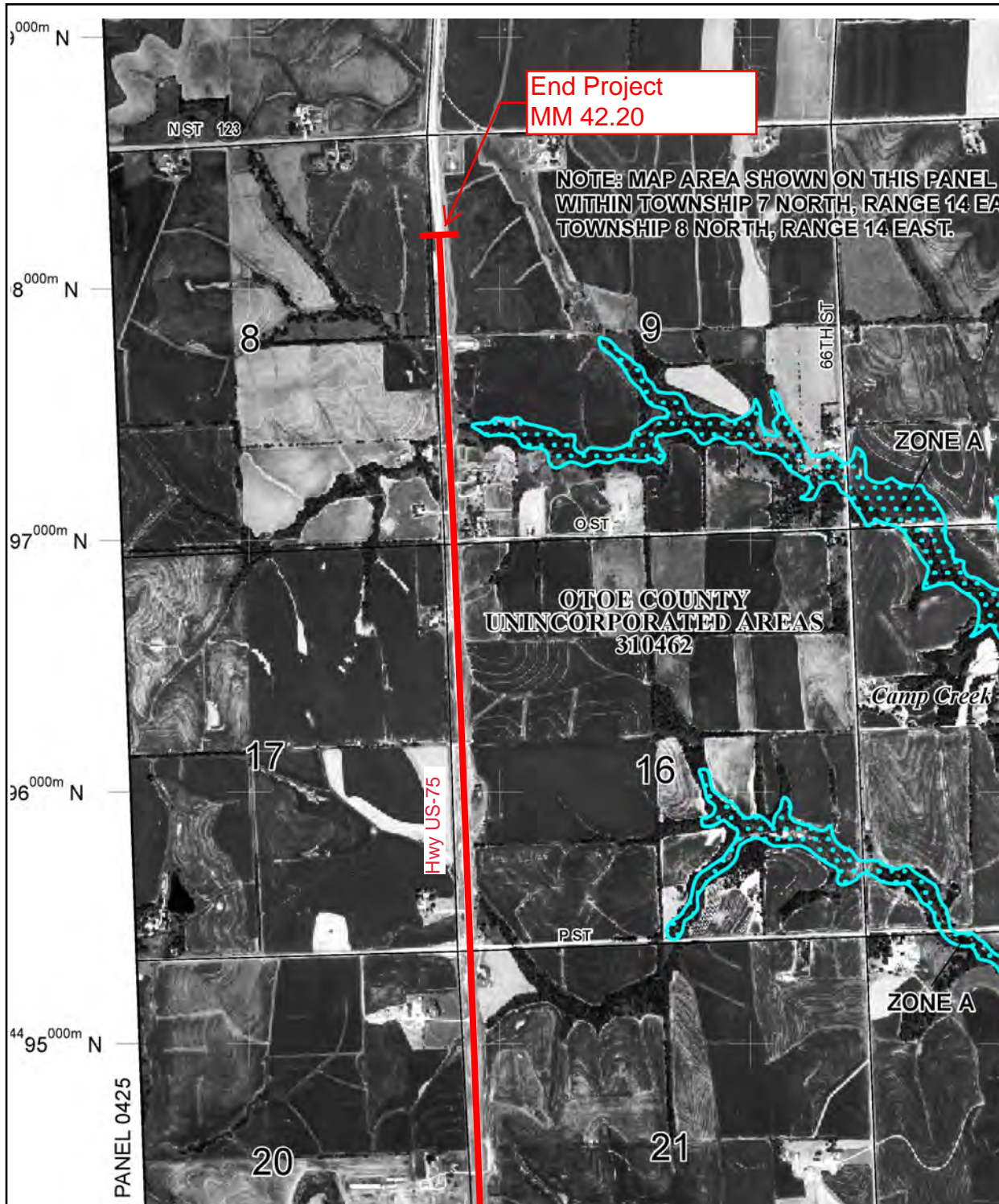
0450

D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER  
31131C0450D****MAP REVISED  
FEBRUARY 18, 2011****Federal Emergency Management Agency**

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NFIP

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**MAP REVISED**  
FEBRUARY 18, 2011

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