

## Memorandum

DATE **March 9, 2020**

TO Dillon Dittmer, Taylor Eman, Mercy Manzanares

FROM Robert Carnazzo

THRU Julie Ramirez and Jason Dayton

SUBJECT Floodplain Certification — Oshkosh South, 27-3(102), CN 51546

Oshkosh South is a Mill and Overlay project located in Garden County, Nebraska, along Highway N-27. The project will begin at the intersection of Highway N-27 with County Road 40 (Mile Marker (MM) 110.18) and extends north to the junction of highway N-27 and Highway US-26, in the City of Oshkosh (MM 118.88).

The highway improvements on this project consist of removing three and one-half (3.5) inches of existing asphalt pavement by milling, followed by placement of a five (5) inch asphalt overlay, for a one and one-half (1.5) inch increase in pavement elevation. Asphalt patching will be completed prior to the overlay. Existing surfaced driveways and intersections and pavement under guardrail will also be resurfaced. Where there are earth shoulders, the pavement edges will be improved and the earth shoulders regraded to meet the new pavement edges. Guardrail will be replaced the length of the project. The bridge over the North Platte River will have an expansion joint replaced, and its guardrail removed and replaced. There will be no culvert work.

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

### Community of Garden County

#### **North Platte River, Sections 10 and 03 T16N R44W and Section 35 T17N R44W**

The project encroaches upon the Base Floodplain for the North Platte River in Sections 10 and 03, T16N R44W and Section 35, T17N R44W. The river's ordinary high water flow is conveyed through the highway by a 418-foot long bridge, structure S027 11745. At this location the project will complete milling and overlay work that will increase the pavement elevation one and one-half (1.5) inches, resurfacing under guardrail, pavement edge improvement, replacement of a bridge expansion joint, and replacement of the bridge and highway guardrails. There will be no culvert work. Assuming the base flood overtops the highway, the one and one-half (1.5) inch increase in the pavement elevation will cause an equivalent one and one-half (1.5) inch increase in the depth of the base flood. The project will cause a one and one-half (1.5) inch increase in the base flood elevation of the North Platte River at and immediately upstream of the highway.

Enclosures: Certificates (1)  
FIRMettes covering project (4)  
Location Map

March 9, 2020

**Permit Information:**

Community of Garden County

**North Platte River, Sections 10 and 03 T16N R44W and Section 35 T17N R44W**

Is the work substantial improvement?	No
Is the work in an identified floodplain?	Yes
Elevation of the base flood (100-year event)?	1.5-inch Increase
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 Oshkosh South Stream North Platte River  
Project No. 27-3(102) County Garden  
Control No. 51546 Section(s) 10 & 03 T 16 N R 44 W

FEMA LOCATION

County/Community Garden County, Nebraska  
Panel No. 31069C 0900B  
Effective Date 08/04/2005

TYPE OF STRUCTURE

☒ Bridge ☐ Culvert ☒ Roadway

Structure No. S027 11745 ☐

TYPE OF IMPROVEMENT

☐ Modify Existing ☐ Replace Existing ☒ Other

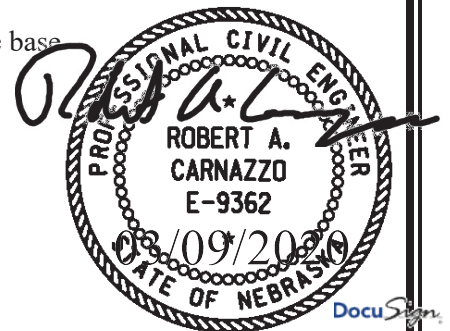
Details Mill 3.5-inches, Place 5-inch overlay for 1.5-inch increase in pavement elevation, bridge expansion joint, replace guardrail, pavement edge improvement.

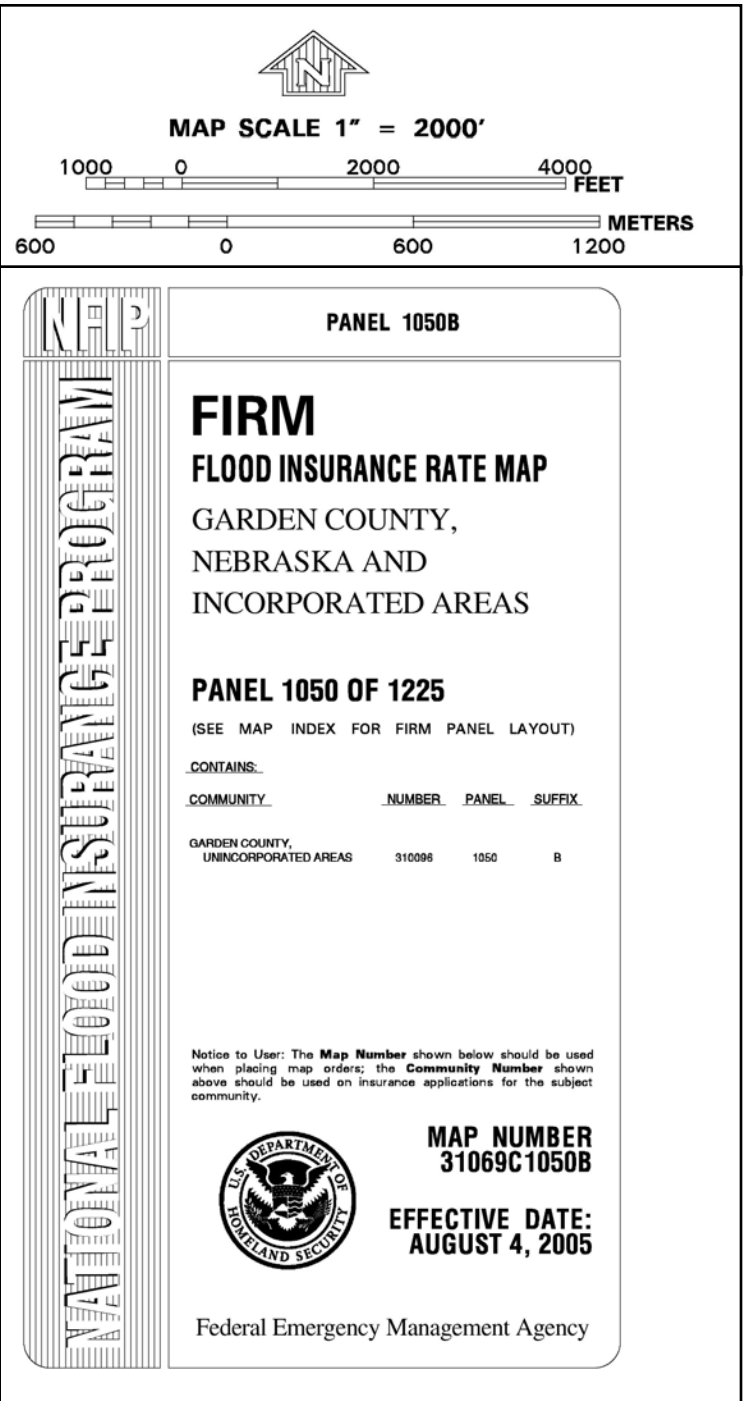
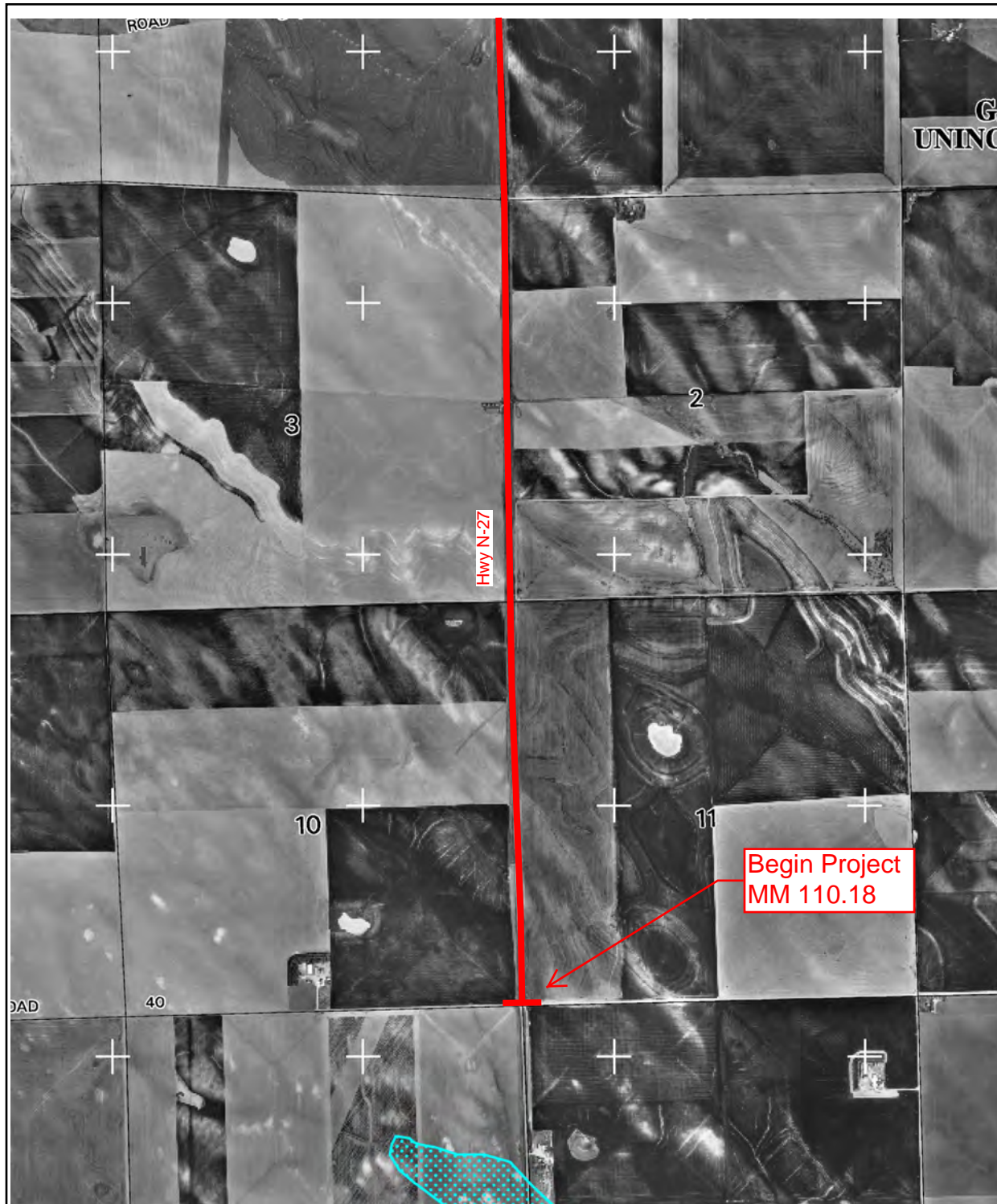
Highway Profile Change: ☒ Yes ☐ No

THE FOLLOWING IS HEREBY CERTIFIED

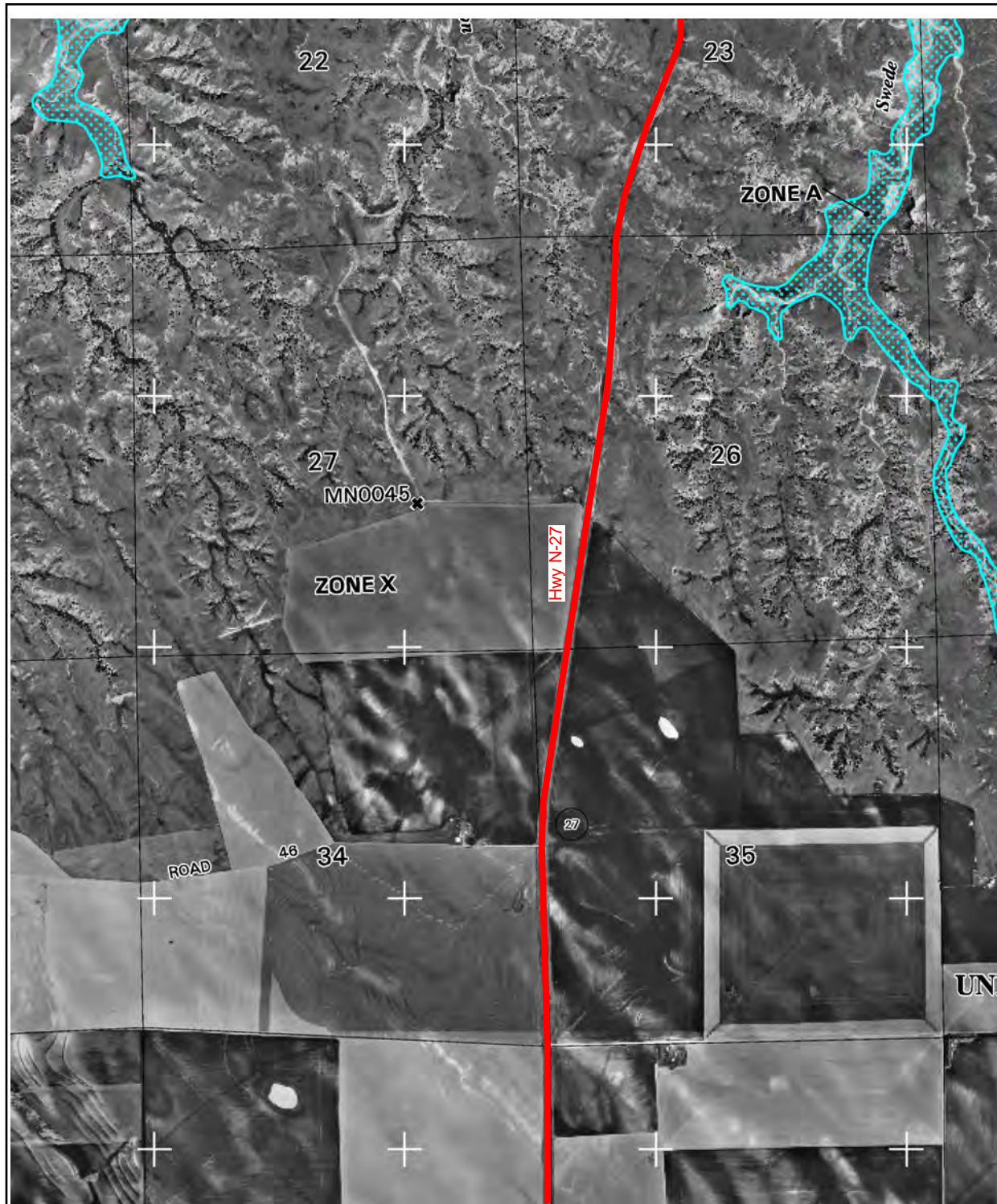
- ☐ Floodplain in Un-mapped Community (State Minimum Standards Apply)  
Proposed construction will not increase the base  
(100 year) flood heights more than one foot at any location.
- ☒ Floodplain (without Designated Floodway) or Flood Fringe  
Proposed construction will not increase the base  
(100 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





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/>.





**MAP SCALE 1" = 2000'**

1000 0 2000 4000 **FEET**

600 0 600 1200 **METERS**

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 1050B**

**FIRM**

**FLOOD INSURANCE RATE MAP**

GARDEN COUNTY,  
NEBRASKA AND  
INCORPORATED AREAS


**PANEL 1050 OF 1225**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

<u>COMMUNITY</u>	<u>NUMBER</u>	<u>PANEL</u>	<u>SUFFIX</u>
GARDEN COUNTY, UNINCORPORATED AREAS	310098	1050	B

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.

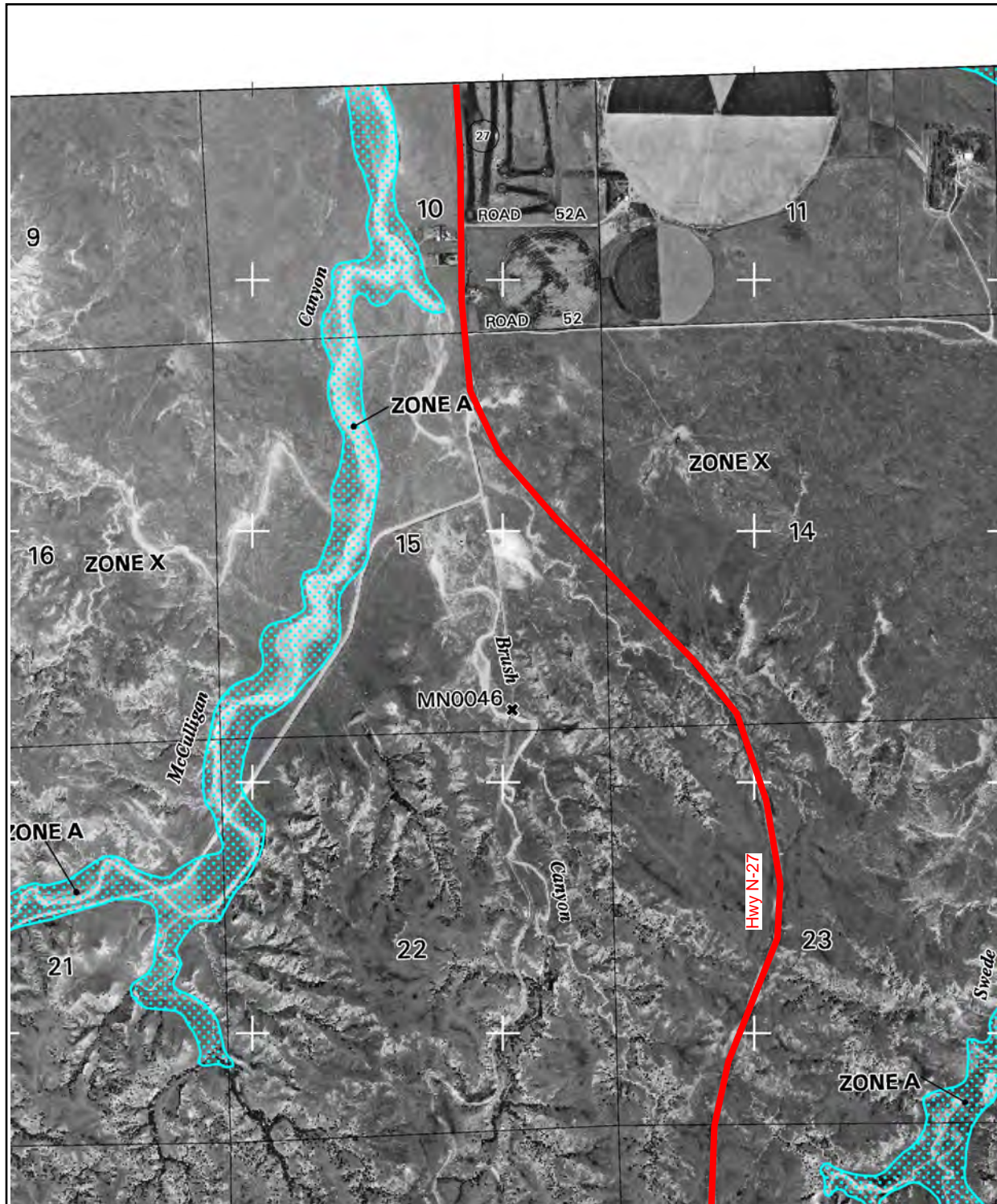


**MAP NUMBER**  
**31069C1050B**

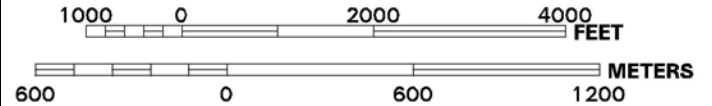
**EFFECTIVE DATE:**  
**AUGUST 4, 2005**

Federal Emergency Management Agency

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MAP SCALE 1" = 2000'



NFP

PANEL 1050B

# **FIRM**

## **FLOOD INSURANCE RATE MAP**

GARDEN COUNTY,  
NEBRASKA AND  
INCORPORATED AREAS

**PANEL 1050 OF 1225**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER PANEL SUFFIX

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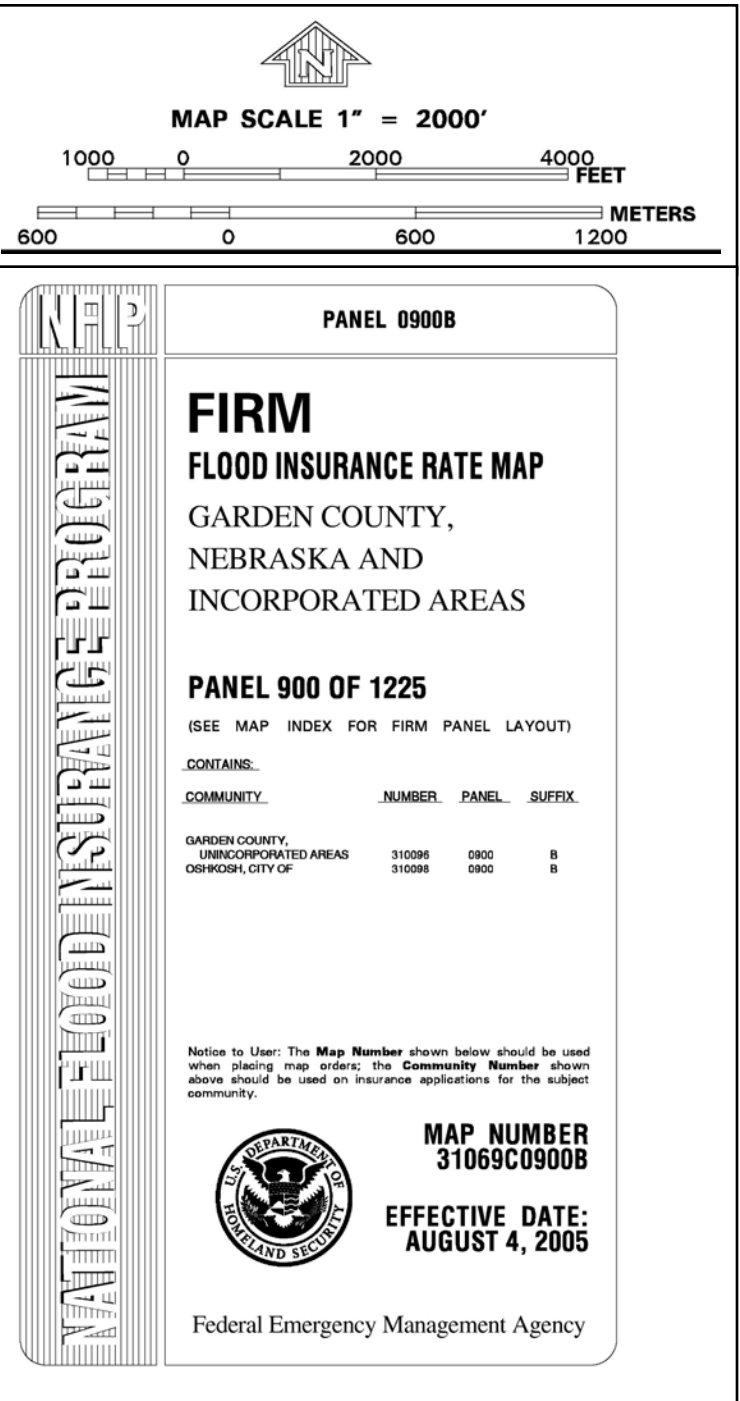
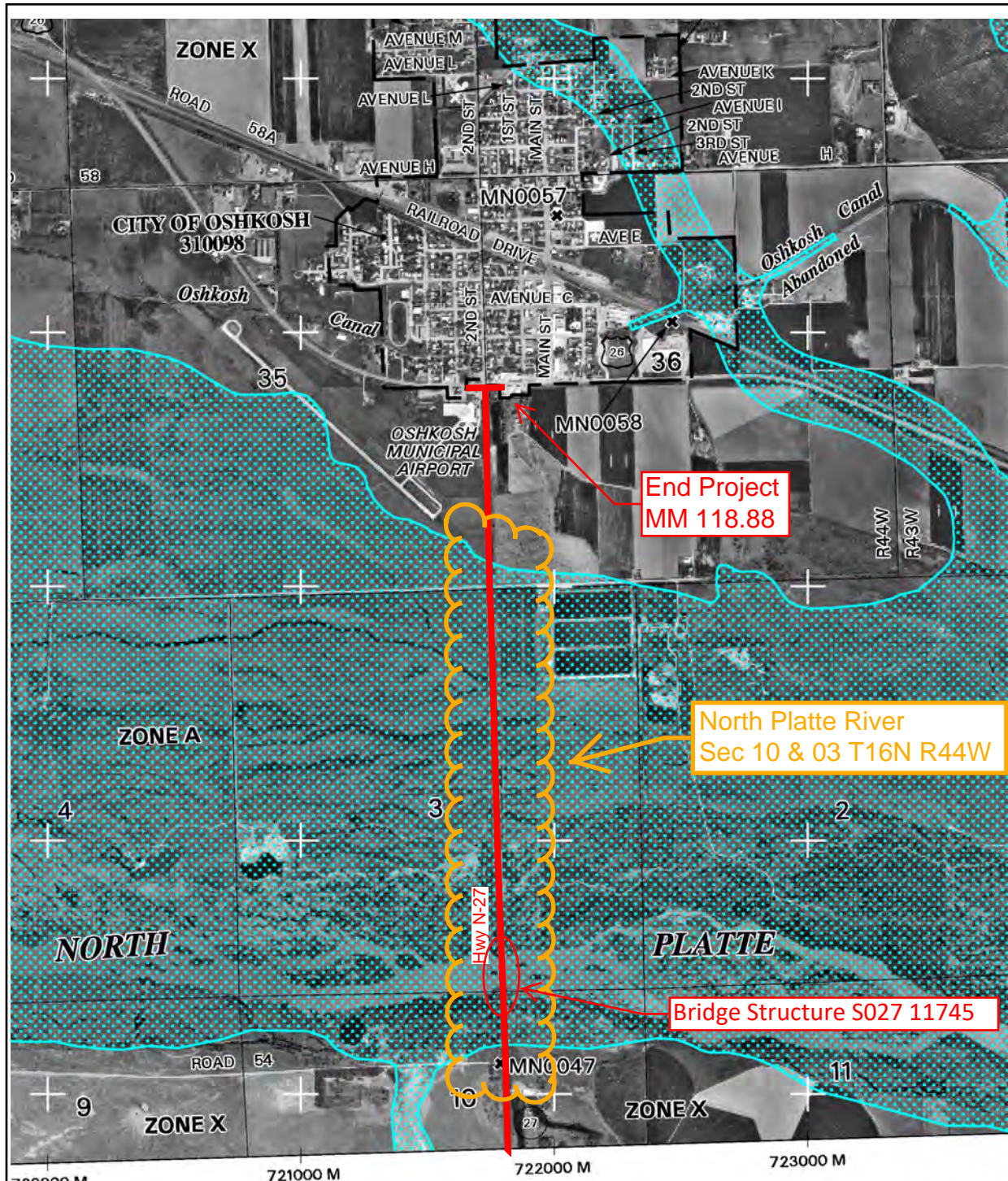


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OSHKOSH SOUTH (TK)  
27-3(102)

C.N. 51546 BOOK 6219  
GARDEN COUNTY



R.P. 118+88 HWY. N-27  
STA. 1462+03.68  
END PROJECT

R.P. 110+18 HWY. N-27  
STA. 1000+00.00  
BEGIN PROJECT

