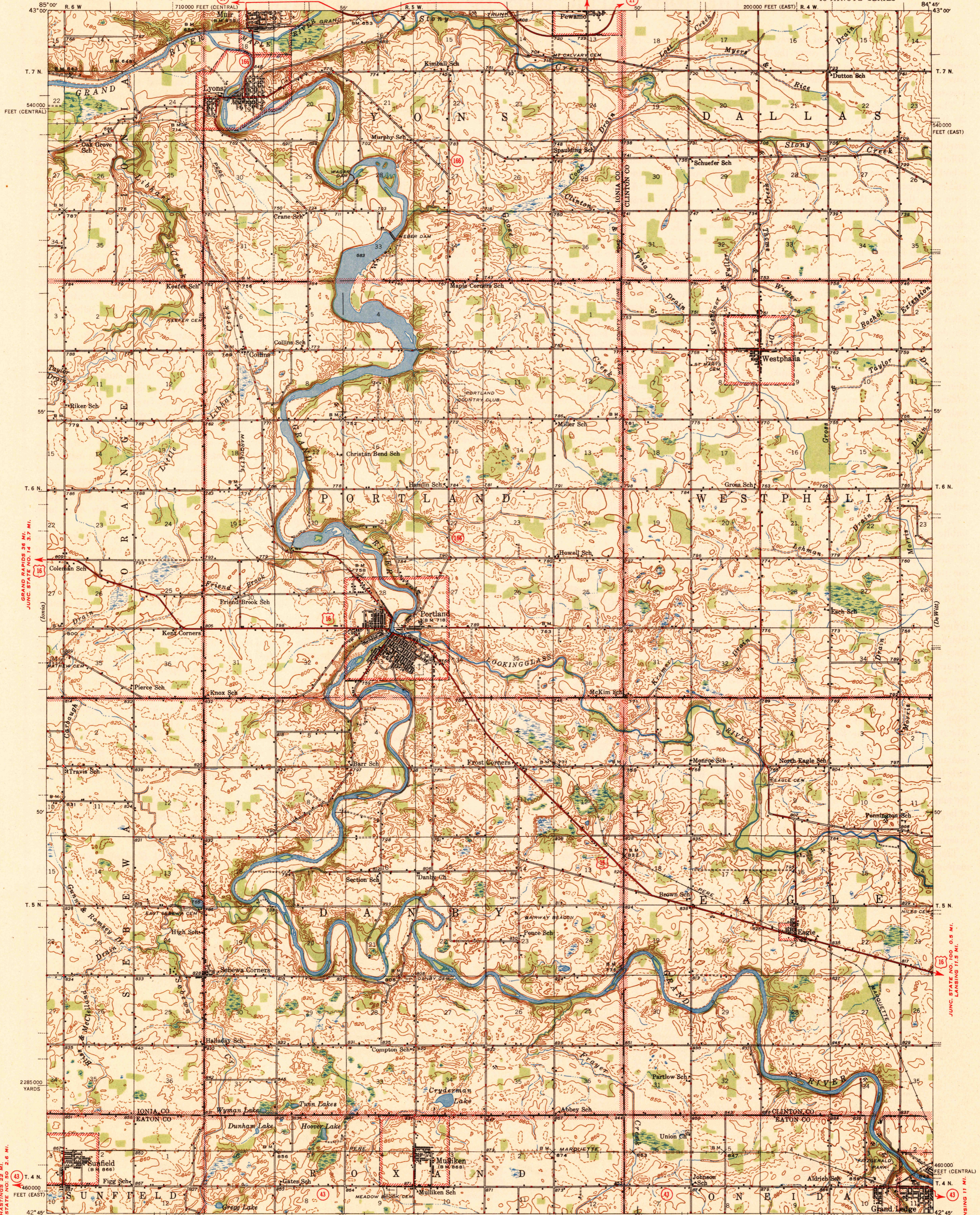


U. S. G. S.  
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

MICHIGAN  
STATE HIGHWAY DEPARTMENT  
CHARLES M. ZIEGLER  
STATE HIGHWAY COMMISSIONER

MICHIGAN  
PORTLAND QUADRANGLE  
15-MINUTE SERIES



GRAND RIVER 24 MI.  
JUNC. STATE NO. 27 MI.

HASTINGS 22 MI.  
JUNC. STATE NO. 50 2.6 MI.

JUNC. STATE NO. 50 0.5 MI.  
LANSEING 11.5 MI.

Map by the Geological Survey  
1945  
JUNC. STATE NO. 50 2 MI.



NEEDMORE 4.6 MI.  
CHARLOTTE 13.8 MI.

ROAD CLASSIFICATION  
1946  
Dependable hard-surface  
heavy-duty road  
Secondary hard-surface  
all-weather road  
Dry weather roads  
Loose surface graded  
Unsurfaced graded  
Dirt road  
U. S. Route  
State Route

APPROXIMATE MEAN  
DECLINATION, 1946

Contour interval 20 feet  
10 foot contours in dashed lines  
Datum is mean sea level

USGS  
Historical File  
Topographic Division  
FILE COPY  
Inspection and Printing

PORTLAND, MICH.  
Edition of 1946

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