
CONCEPT DEFINITION REPORT

Date: 05/10/2022

Region: SW PDS Unit 9

Prepared By: RICHARDSON, LINDA K - DOTLZP

GENERAL

Design ID: 1204 00 31

Related ID(s): 1204-00-61

Highway No. or Local Road Name: USH 018

Route length (miles): 3

Title/Limit: DODGEVILLE - MOUNT HOREB DODGEVILLE TO BARNEVELD

Functional class: FREEWAYS AND EXPRESSWAYS

Current ADT: 16267

Connecting hwy: N

COUNTIES

County name	Primary Flag
IOWA	Y

FEATURES

Roadway conditions

Lanes: 4

Divided: Y

Rural: Y

Pavement width (ft): 24

Pavement condition year: 0

Pavement surface type: ACPM/FB

IRI: 0.77

PDI:

PCI: 99.502

Left shoulder surface type: Rumble strip - Bituminous

Right shoulder surface type: Rumble strip - Bituminous

Shoulder width (ft): 13

Paved width (ft): 10

Crash rate: 333.0974

Crash rate year: 2020

Substandard align horiz: null

Substandard align vert: null

Crash rate improvement flag: Y

Injury death improvement flag: Y

Runoff improvement flag: Y

Intersection improvement flag: Y

Structures

Structures flag: N

Railroad Crossings

Railroad crossing flag: N

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PROPOSED IMPROVEMENT

JUSTIFICATION: USH 18 is a divided four-lane rural roadway. The Dodgeville to Barneveld segment has a history of roadway departure crashes, especially during the winter months. A total of 122 crashes were reported on these fourteen curves in the five year analysis period, the majority of which are run-off-the-road crashes.

Proposed improvement description: Reduce roadway departure crashes by placing a high friction surface treatment (HFST) on seven pairs of curves which have experienced the most roadway departure crashes. This treatment addresses 100 of the 122 reported crashes. See the HSIP application, approved 4-27-2022, for additional information.

Environment documentation type: 2B - STATE DOCUMENTED CATEGORICAL EXCLUSION

Improvement concept: PSRS10 - SEAL COAT/CRACK FILL/JOINT, CRACK OR SPOT REPAIR

Total construction estimate: \$2,847,974.55

Utility amount: \$0.00

Railroad amount: \$0.00

Design amount:

Program year: 2025

Legislative subprogram: 303 -STATE HIGHWAY REHABILITATION

WisDOT Programs

SAFETY (REGULAR HSIP)
BACKBONE

Related ID(s) Design Criteria

Related Project ID	Design Criteria	Safety Site of Promise	Safety Mitigations Included
1204-00-61	N/A	N	N
1204-00-31	N/A	N	N

Local participation: N

Aes/Vis Lvl Of Impact Rating:

Real estate: N

NHS: Y

Access control: NA

% Of Project Cost: 0

Real estate cost: \$0.00

FHWA Oversight Exempt: Y

Accepted By: LINDA K RICHARDSON

Accepted Date: 05/10/2022

Original Accepted By:

Original Accepted Date:

CDR Map

