

Public Meeting

SD Highway 22
From Hazel to US81

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Department of Transportation

August 29, 2022



Purpose of the Meeting

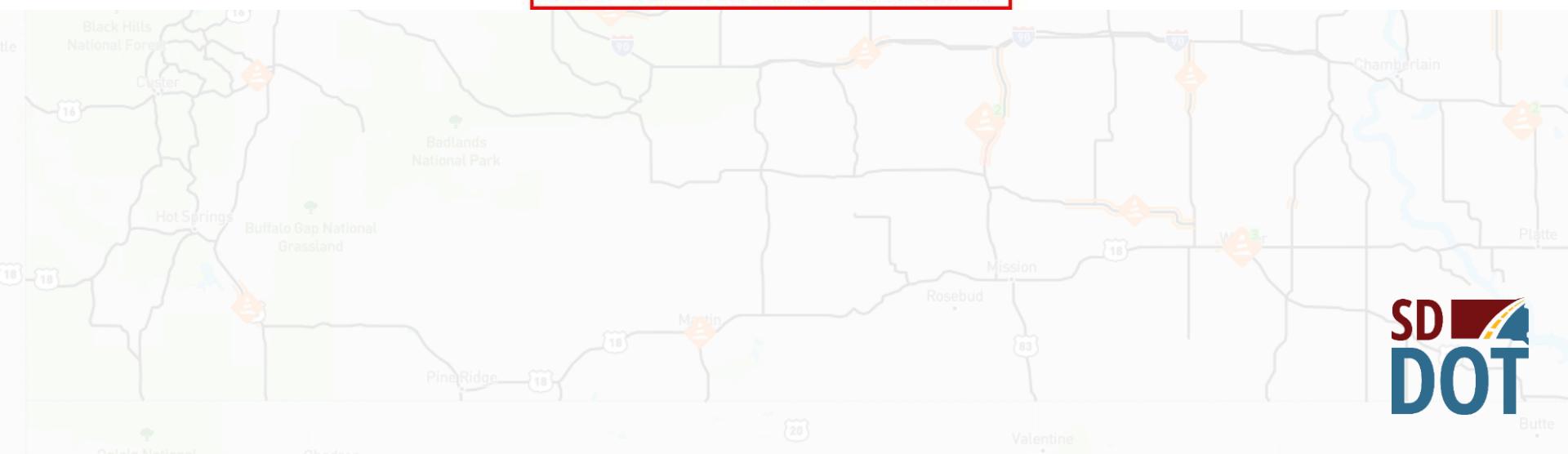
Provide a
Corridor
Overview

Public Input

Segment Limits



SD22 - Hazel to US81 - 13.5 miles



SD
DOT

Background Information

Built in 1968 and 1969

Last Surface Improvements in 2022



Project in 2022

Roadway Section Resurfaced

Wider edge/white line

Re-Install Rumble Strips



Traffic

2021 Average Daily Traffic (ADT) = 648

2045 Projected ADT = 1,057

10.2% Average Truck Traffic



Crash History

38 Reported Crashes

37 Property Damage Only (PDO)

- 33 Animal related PDO
- 1 Fixed Object Off Road Injury crash
- 0 Fatalities

5 Year Period from 2017 to 2021

- Reported Crash Rate for this segment of SD22 = 2.5
- Statewide Average Weighted Crash Rate = 1.73 (crashes per million vehicle miles of travel)

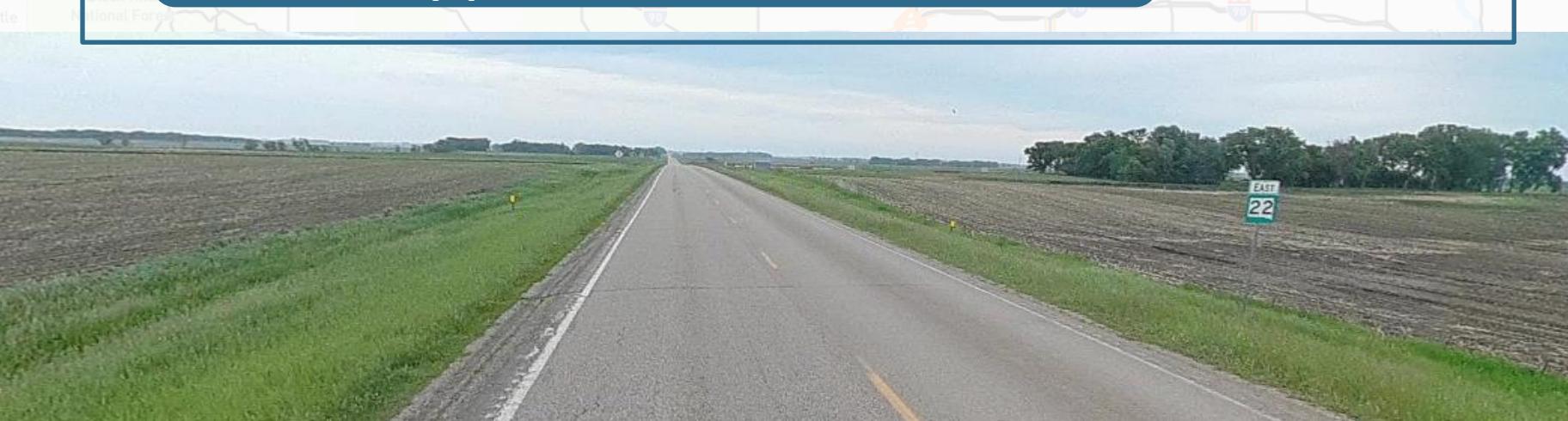
Rural Minor Arterial

When We Consider Resurfacing

Crash History and Predicted Safety
Performance – Benefit/Cost (BC)

Good Roadway characteristics

Good pavement and drainage
structure(s)



When We Consider Shoulder Widening

Crash History and Predicted Safety
Performance – Benefit/Cost (BC)

Good Roadway characteristics

Good pavement and drainage
structure(s)



When We Consider Reconstruction

Condition of roadway and structures

Safety Performance and Capacity needs

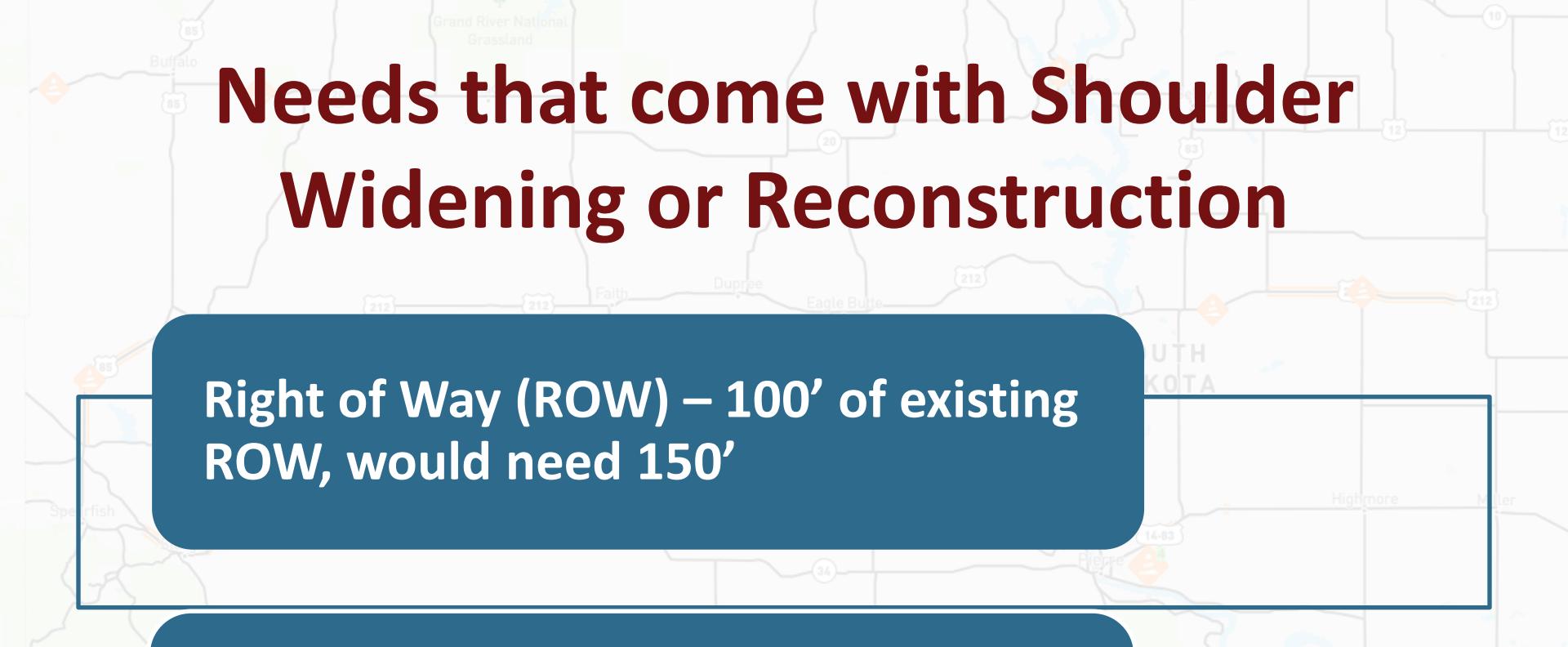
Drainage needs



Needs that come with Shoulder Widening or Reconstruction

Right of Way (ROW) – 100' of existing ROW, would need 150'

Utilities – Overhead power relocation for 4.5 miles on West end



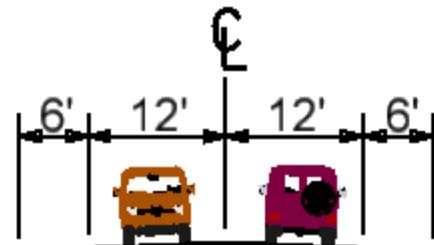
Potential Roadway Section



New
ROW
75'

Existing
ROW
50'

Fill Section



Existing
ROW
50'

New
ROW
75'

Cut Section



Coordination that comes with Shoulder Widening or Reconstruction

Access Management and Encroachments

Purchase additional ROW as needed

Temporary easements as needed for construction

Utility Coordination

Environmental, Social and Economic Concerns

How does SD22 compare to other potential projects?

B/C of 0.26 compared to average B/C of 1.4 for Shoulder Widening projects

Ranks low overall for possible reconstruction

How does SD22 compare to SD28 from US81 to West of Lake Norden?

Location	ADT	%Trucks	Projected ADT	B/C for Shoulder Widening
SD28 - 7 miles W of Lake Norden to US81	1333-2038	6.2-13.5	2174-3324	1.5
SD22 - From Hazel to US81	648	10.2	1057	0.26



Estimated Costs

**Reconstruction with Asphalt Concrete
Surfacing = \$33.967 Million**

**Shoulder Widening with Mill &
Asphalt Concrete Resurfacing =
\$20.113 Million**

Typical Project Schedule

Dependent on Federal Funding

Year 1
Planning

Year's 2-5
Design

Year's 6-7
ROW
Acquisition

Year 8
Construction

Public Input

**Please Submit Questions or Comments by
September 14, 2022 to:**

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