

MEADE COUNTY



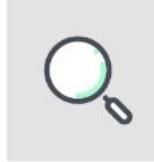
HDR

Southern Meade County Corridor Study

Meade County Commission Presentation
October 13, 2020

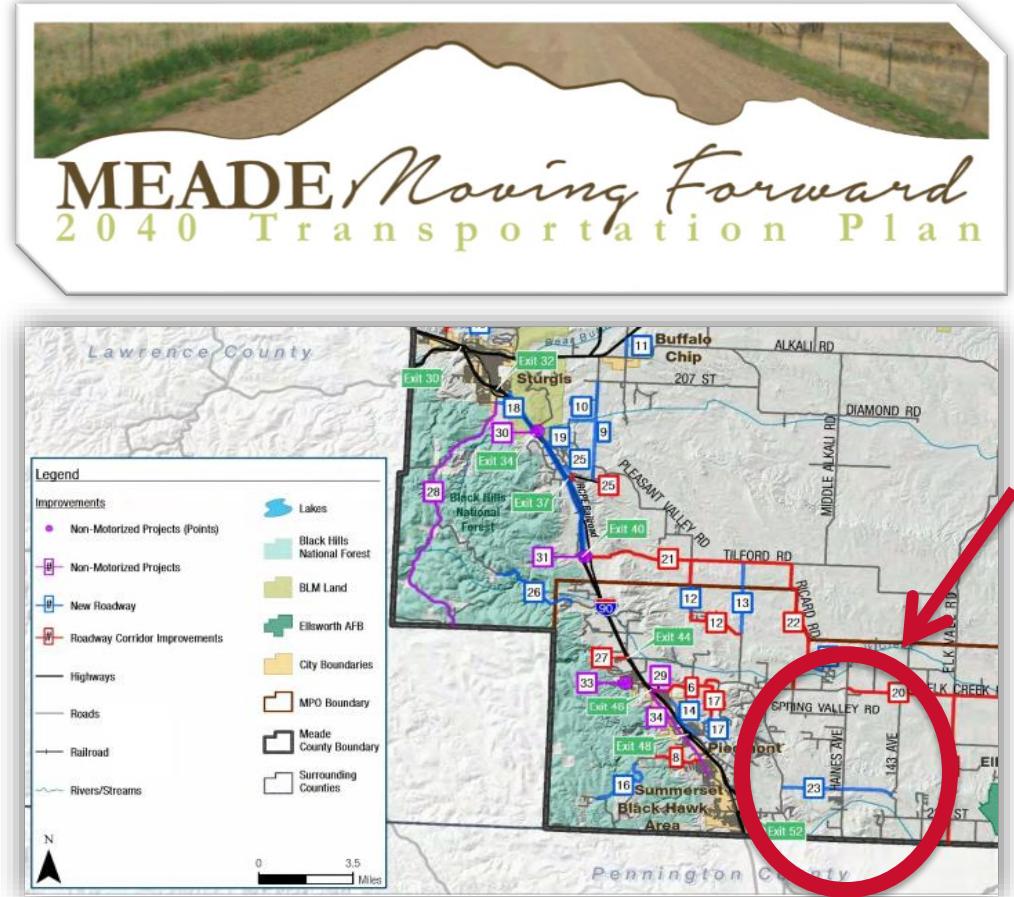


SCHEDULE

							
Project Kickoff	Data Gathering	Public Meeting #1	Analysis	Public Meeting #2	Draft Report	Public Meeting #3	Final Report
January 2019	Jan - Mar 2019	Mar 2019	Apr - July 2019	July 2019	Sept - Nov 2019	November 2019	October 2020

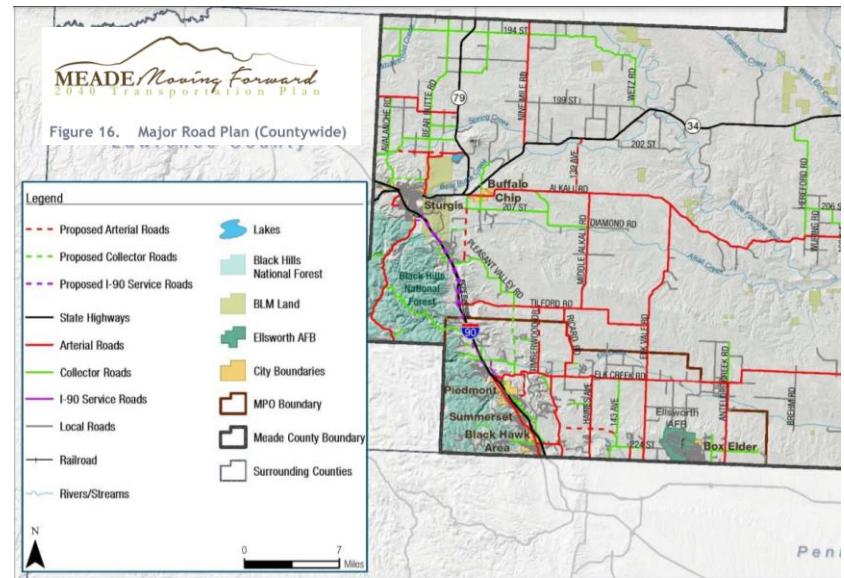
PURPOSE OF CORRIDOR STUDY

- Meade Moving Forward 2040 identified the need for an east-west corridor in this area
 - Preliminary corridor location previously identified
 - This study looked at this location as well as a dozen other alternatives within the study area to determine feasibility
- Area of county likely to see development (primarily rural residential) within the 20 year planning horizon
- Corridor Management/High level planning
- Framework for future development
- No near term funding or plans to construct identified by public agencies at this time



CORRIDOR PLANNING

- Corridor Planning is used as a tool to provide a framework for orderly and efficient development (if and when it occurs)
- Once the Study is endorsed, the concepts within the plan can be incorporated into local transportation and land use planning documents and processes, such as Meade County's and Rapid City's Major Street Plan.
- If and when this land is developed or subdivided, the incorporation of this corridor into the local transportation planning documents gives the county the ability to have the developer accommodate a through roadway during the permitting process.



STUDY FINDINGS

- Traffic operations along Haines Ave, Erickson Ranch Rd, and 143rd Ave will likely not drive the need for this east-west connector.
- The study found this corridor will provide less measurable benefits including:
 - Connectivity
 - Encouragement of orderly development
 - Conserve natural features and lessen fragmentation of agricultural land
 - Will provide guidance and framework for road network as development intensifies.

Table 6: Study Area Intersections – 2045 No-Build Conditions

Study Intersection	Intersection Control Type	AM Peak Period LOS	PM Peak Period LOS
Elk Creek Road & Erickson Ranch Road	TWSC* N/S approaches	B	B
Elk Creek Road & Haines Avenue	AWSC	A	A
Elk Creek Road & 143 rd Avenue	TWSC* S approach	A	A
Peaceful Pines Road/ Deadwood Avenue & Erickson Ranch Road	TWSC* N approach	A	A
224 th Street & 143 rd Avenue	TWSC* N approach	A	A

STUDY RECOMMENDATIONS



- The no-build alternative does not provide a framework if and when future development occurs.
- The alternative that matched up with the previously shown corridor in Meade County's Master Transportation Plan (on the section line) was screened out during the preliminary screening process due to
 - Poor intersection geometrics at Erickson Roach Road, Haines Avenue, and 143rd Avenue
 - Topography – long steep grades required
 - Earthwork – Large amount of excavation required (directly related to cost and constructability)
 - Impacts to wetlands, drainages, and floodplain
- The recommended alternative was Alternative 5. This alternative had optimal intersection geometrics, was the less expensive of the other two alternatives, had the least amount of wetland and utility impacts, and met the purpose and need.



SUMMARY OF CHANGES MADE TO FINAL REPORT

- No major changes
- Minor changes in wording to provide clarification, for example
 - Page 3 from Executive Summary:
 - Changed from: “The identified corridor would **allow the preservation of a future route** and ensure appropriate access management for any potential growth within the area.”
 - Changed to: “The identified corridor would **serve as a guide for future development** and ensure appropriate access management for any potential growth within the area.”
 - See “Summary of Changes between Draft Copy and Final Report of Southern Meade County Corridor Study” dated March 31, 2020 for a comprehensive list of minor changes.



THANK YOU!

QUESTIONS?