

# NSBA Steel Bridge Forum

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Bismarck, ND  
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**FARM**

**Fixing Access to Rural Missouri**

# **HISTORY OF DESIGN-BUILD IN MISSOURI**

I-64 in St. Louis

Paseo Bridge in Kansas City

Repair or replace 400 bridges statewide

# **FIRST “BUNDLED BRIDGE” PROJECT IN MISSOURI**

Bootheel Bundle

15 Bridges

All Concrete



**Why did MoDOT need the FARM project?**  
ONE LANE BRIDGES/LOAD RATED BRIDGES



**Why did MoDOT need the FARM project?**

BRIDGES IN POOR CONDITION





**Why did MoDOT need the FARM project?**

FAILING SUBSTRUCTURE



**CONDITION OF THIS BRIDGE = TOO GOOD TO QUALIFY**



# MoDOT Goals

- Repair or replace up to 40 bridges
- Remove load restrictions
- Make all structure two lanes wide
- Stay within budget of \$26 million

# Judging Criteria

- How many bridges do you plan to repair and replace?
- How durable and long lasting are the bridges?
- How will you minimize disruption to the travelling public?

# Summary & Recommendation

Category	Available Points	Team 1	Team 2	Team 3
Bridge Bundle Definition Part 1	40	39.7	38.3	40
Bridge Bundle Definition Part 2 (Bonus Points)	15	1.5	0	1.5
Bridge Quality and Longevity	30	18.7	20	21.7
Location Completion and Maintenance of Traffic	15	5.8	11.8	8.9
TOTAL	100	65.7	70.1	72.1

SEC/SUR	33	TMP	67N	RGE	15M
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DATE PREPARED	
2/17/2022	
REGION	STATE
M	MO
DISTRICT	SHEET NO.
NE	1
COUNT =	
SCHUYLER	
JOB NO.	
J253318	
CONTRACT TO:	
210601-801	
PROJECT NO.	

BRIDGE NO.  
A9180

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PAGE 2

VISIONS  
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A704	

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11/30/
02/21/

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8-275-9



ASHRAE  
105 W. 17th St.  
New York, NY 10011-4208  
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802-E 10  
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Author

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**WOLFE ENGINEERS & ARCHITECTS**

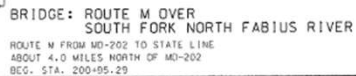


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Note:  
Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete approach beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end piers before any piles are driven for any bents falling within the embankment section.



Sheet No. 1 of 23

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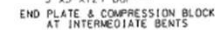




① - denotes Girder Number.

(1) See Sheet No. 10 for height and width

(2) See Sheet No. 10 for width



FRAMING PLAN

Sheet No. 9 of 23



BRIDGES UNDER 25 TON COULD BE SHIPPED IN ONE LOAD



PILING AND STRUCTURAL STEEL -- GALVANIZED





OPTION FOR BEAM CONDITION AT ABUTMENT







END BLOCKS USED TO TRANSMIT COMPRESSION FORCES





SDCL – SIMPLE FOR DEAD, CONTINUOUS FOR LIVE



SIMPLE DIAPHRAGM TO BEAM CONNECTIONS





ROAD CLOSURES LASTED 30-60 DAYS





RURAL LOCATIONS – LOW TRAFFIC COUNTS



# QUESTIONS?

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