

Wisconsin Department of Transportation DT1694 4/2017

RECEIVED 3/11/2019 BUREAU OF STRUCTURES

□ Grade Separation											
☐ Sign Structure ☐ High Mast Lighting ☐ Other:											
For guidance see: <a href="http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx">http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx</a>											
Construction Project ID	Highway (Project Name)										
3614-00-75	Creek Road										
Preliminary Plan Due Date	☐ Town ☐ Village ☐ City										
March 15, 2019	Bradford										
Letting Date	County										
March 10, 2020	Rock										
Existing Structure Number	Section Town			Rang	•						
P-53-0101	26		14-E								
Latitude: 42.60639° N	☐ YES ☒ NO Structure Located on National Highway System										
Longitude: 88.80332° W											
For Survey and CADD Files Horizontal Coordinate System: Vertical Datum:		Traffic Forecast Data									
			•	,							
	Design Year	Traffic (AD	T) Design	Speed	Functional Class						
		520 50 mr		ngh	Local Road						
		-									
	Feature Under										
Wisconsin & Southern Railroad  Region Contact: Zachary Pearson											
1	Consultant Contact: Patrick Boland, Jewell Associates Engineers										
(Area Code) Telephone Number(s): 608-246-5319 (Area Code) Telephone Number(s): 608-588-7484											
Email: zachary.pearson@dot.wi.gov Email: Patrick.Boland@JewellAssoc.com											
	gh Mast Lighting Other sindot.gov/Pages/doing-bus/end Construction Project ID 3614-00-75 Preliminary Plan Due Date March 15, 2019 Letting Date March 10, 2020 Existing Structure Number P-53-0101 Latitude: 42.60639° N Longitude: 88.80332° W	Construction Project ID 3614-00-75									

## **Instructions for Structure Survey**

- Report submitted with Preliminary Plan requires **no** CADD file submittal (see ESubmittal instructions).
- Report submitted for development of Preliminary Plan to structure design engineer requires CADD file(s) submittal and Report submittal to Soils Engineer.
- Coordinate with design engineer before going into the field if existing structure has no available plans, if staged construction is
  planned, or if there are adjoining/adjacent structures that will remain in place.

In addition to this report, the following information shall be submitted.

- 1. **Small County Map** on which the location of proposed structure is shown in red, any highway relocation in green, and **Location Map** of scale not less than 1" = 2000' showing the structure location and number.
- 2. **Plan and Profile Sheet** on proposed reference line of feature on and feature under showing the following:
  (a) Ground line; (b) Finished grade line; (c) Profile grade line elevations at least every 100 feet for 1,000 feet each side of the structure; (d) Vertical curve control points; (e) Horizontal curve control points; (f) Curve data, including full SE and runoff distance; (g) For railroad project, survey top of each rail and provide proposed geometrics in conformance with railroad company standards.
- 3. **Layout Sketch** of the site drawn to a scale of not less than 1 inch = 100 feet showing the following:
  (a) Existing highway and structure; (b) Proposed highway alignment and R/W; (c) Station numbers; (d) Reference line intersection stationing and intersection angle; (e) North Arrow; (f) Buildings; (g) Above and below ground facilities; (h) Proposed structure when report submitted with Preliminary Plan; (I) Railroad company stationing; (j) Station at ends of existing structure; (k) Other features which influence the design.
- 4. **Typical Sections** of all roadways showing the following:
  (a) Dimensions; (b) Slopes; (c) Type and width of surfacing or pavement; (d) Subgrade; (e) Sidewalk, curb and gutter; (f) Median treatment at underpass mounted or ditch section; (g) Clear zone width; (h) Horizontal clearances at underpass.
- 5. **Labeled Photographs** of: (a) Existing structure; (b) Site pictures in all controlling directions including, but not limited to North, East, South and West; (c) Buildings within 100 feet of proposed structure.

**Proposed Structure** 

Preference for Structure Type at this Site: 36W-Inch Prestressed Concrete Girde	rs	Пи	o Preference								
Aesthetics Level – See Bridge Manual Chapter 4											
Clear Roadway Width on Structure											
28 Ft.	Cross Slope on Deck or N.C. (Normal Crown) Skew N.C. Ft./Ft. 40°					L.H.F.					
Sidewalks/Multi-Use Path  ☐ Yes ☐ No  ☐ N/A Ft.	alk/Path Width Separation Barrier Right Clear Sidewalk/Path Width Separation Barrier  ☐ Yes ☐ No N/A Ft. ☐ Yes ☐ Ne										
Type of Slope Protection											
Slope Paving - Select Crushed Material  Specify Wing Location(s) for Beam Guard Attachment  Specify Wing Location(s) for Surface Drain Anchors											
All Four Wings N/A											
Specify Wing Location(s) where Bridge Barrier/Rail Continues on Roadway Approach All Four Wings											
YES NO  ☐ ☑ Structure Will be Constructed to Accommodate Traffic Staging				Vertical Clearance Design ☐ 14' 9" to 15' 3"							
☐ ☑ Structural Approach Slab				☐ 16' 3" t	☐ 16' 3" to 16' 9"						
☐ ☑ Lighting Required: Bolt Circle Diameter inches					☑ Other: <u>23'-0"</u>						
☐ ☐ Traffic/Lighting Staff been Notified for Review				<u></u>							
•	<ul><li>☐ ☐ Conduit in Parapet: Diameter Number</li><li>☐ ☐ Historical Properties (Archaeological, Historic) Present Near Structure</li></ul>										
Utilities on Structure (WisDOT policy is to avoid placing utilities on the structure.)											
<ul> <li>☐ ☑ Utilities will be located on the structure?         (if YES, provide the following information as well as the alignment and profile on Page 3)</li> <li>☐ ☑ Utilities have been approved by Region Utility Coordinator or previously approved by the Bureau of Structures?         (if NO, please explain on Page 3)</li> </ul>											
Type Owner and Contact Info	ormation		Size	Opening at Abutment	Weight	Pressure					
Proposed Disposition of Existing Structure											
YES NO  ⊠ □ Structure will be Removed □ Bid Item □ Later Contract □ Other:											
□ ⊠ Structure will Remain in Service, Purpose:											
For Structure Designers Use Only											
Spans – Number: Span Len 78 Ft.	gths (C.L. to C.L. of Subs	posed Structu structure):	Skew: 40°		⊠ R.H.F.	L.H.F.					
Latitude:		Longitud	e:								

## **Additional Information**

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction.

Please be as detailed and specific as possible.

Bridge abutments will be skewed 40° which is the maximum allowed for this structure type.

Concrete approach slabs and asphaltic flumes are required. Details will be included in the final roadway plans.

MSE walls R-53-084 & R-53-085 will be located at the abutments of the structure. Construction of MSE walls will be coordinated with the construction of the bridge.

Chain link fence will be placed along the top of the MSE retaining walls.

Railroad ditches in front of the retaining walls will be graded to facilitate drainge towards the south.