



SEPARATION STRUCTURE SURVEY REPORT

Wisconsin Department of Transportation
DT1694 4/2017

- ☐ Grade Separation ☒ Railroad ☐ Retaining Wall ☐ Noise Barrier
☐ Sign Structure ☐ High Mast Lighting ☐ Other: _____

For guidance see: <http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnsit-rsrcs/strct/survey.aspx>

Design Project ID 3614-00-05	Construction Project ID 3614-00-75	Highway (Project Name) Creek Road		
Final Plan Due Date September 1, 2019	Preliminary Plan Due Date March 15, 2019	<input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City Bradford		
PS&E Date November 1, 2019	Letting Date March 10, 2020	County Rock		
New Structure Number B-53-177	Existing Structure Number P-53-0101	Section 26	Town 02-N	Range 14-E
Station 20+46.96	Latitude: 42.60639° N Longitude: 88.80332° W	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Structure Located on National Highway System		
For Survey and CADD Files Horizontal Coordinate System: Vertical Datum:		Traffic Forecast Data		
		Design Year	Average Daily Traffic (ADT)	Roadway Design Speed
Feature On Creek Road		Feature On 2040	520	50 mph
Feature Under Wisconsin & Southern Railroad		Feature Under		
Region Contact: Zachary Pearson (Area Code) Telephone Number(s): 608-246-5319 Email: zachary.pearson@dot.wi.gov		Consultant Contact: Patrick Boland, Jewell Associates Engineers (Area Code) Telephone Number(s): 608-588-7484 Email: Patrick.Boland@JewellAssoc.com		

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.

- 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.
- Plan and Profile Sheet** on proposed reference line of feature on and feature under showing the following:
 - 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.
- Layout Sketch** of the site drawn to a scale of not less than 1 inch = 100 feet showing the following:
 - 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.
- Typical Sections** of all roadways showing the following:
 - 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.
- 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 Girders

☐ No Preference

Aesthetics Level – See Bridge Manual Chapter 4

☒ 1 ☐ 2 ☐ 3 ☐ 4 (For Levels 2, 3 & 4 Explain on Page 3)

Spans- Number 1		Approximate Centerline to Centerline Span Lengths Along Reference Line of Highway 84 Ft.			
Clear Roadway Width on Structure 28 Ft.		Cross Slope on Deck or N.C. (Normal Crown) N.C. Ft./Ft.		Skew 40°	<input checked="" type="checkbox"/> R.H.F. <input type="checkbox"/> L.H.F.
Sidewalks/Multi-Use Path <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Left Clear Sidewalk/Path Width N/A Ft.	Separation Barrier <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Right Clear Sidewalk/Path Width N/A Ft.	Separation Barrier <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Type of Slope Protection Slope Paving - Select Crushed Material					
Specify Wing Location(s) for Beam Guard Attachment All Four Wings			Specify Wing Location(s) for Surface Drain Anchors 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
- ☐ ☒ Structural Approach Slab
- ☐ ☒ Lighting Required: Bolt Circle Diameter _____ inches
- ☐ ☒ Traffic/Lighting Staff been Notified for Review
- ☐ ☒ Conduit in Parapet: Diameter _____ Number _____
- ☐ ☒ Historical Properties (Archaeological, Historic) Present Near Structure

Vertical Clearance Design

- ☐ 14' 9" to 15' 3"
- ☐ 16' 3" to 16' 9"
- ☒ Other: 23'-0"

Utilities on Structure (WisDOT policy is to avoid placing utilities on the structure.)

YES NO

- ☐ ☒ Utilities will be located on the structure?
(if YES, provide the following information as well as the alignment and profile on Page 3)
- ☐ ☒ Utilities have been approved by Region Utility Coordinator or previously approved by the Bureau of Structures?
(if NO, please explain on Page 3)

Type	Owner and Contact Information	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 Proposed Structure

Spans – Number: 1	Span Lengths (C.L. to C.L. of Substructure): 84 Ft.	Skew: 40°	<input checked="" type="checkbox"/> R.H.F. <input type="checkbox"/> L.H.F.
Latitude: 42.60639° N		Longitude: 88.80332° W	

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 drainage towards the south.