

THREE PARTY DESIGN CONTRACT SPECIAL PROVISIONS

Revised 05/26/16

The following are recommended special provisions for the design contract to be inserted behind the standard provisions.

VI. SPECIAL PROVISIONS

A. PROJECT DESCRIPTION

The bridge site is on eastbound E. Moreland Boulevard over the Fox River. This is located 1.1 miles east of STH 164 in Sections 35, T07N, R19E, City of Waukesha.

The existing bridge (B-67-205) is a three-span haunched slab structure that was constructed in 1982. Overall, the wearing surface and slab superstructure are in fair condition. A 2021 thermal infrared scan of the wearing surface (bare) indicates 0.3% delamination or previously patched areas. The abutment corners have large patch areas that are cracked and delaminating. Portions of the lannon stone facing at the wingwalls are failed and missing. The structure sufficiency rating is 65.5. The traffic volume on eastbound E. Moreland Boulevard is 20,100 vehicles per day.

Due to the level of deterioration, the City of Waukesha has programmed the structure for rehabilitation. A bridge "Independent Engineering Study Report" was completed in 2021 and approved by WisDOT. In 2022, the bridge was approved for Local Program funding.

The project scope is to rehabilitate existing bridge B-67-205. The recommended alternative in the 2021 engineering report was to apply a methacrylate deck sealer, complete concrete surface repairs at substructure, and complete stone masonry repairs at abutment wingwalls. Concrete approach slabs are to be reconstructed. Various traffic control options will be investigated (road closed, staged construction, traffic crossed over to westbound). No additional land acquisition is anticipated for this project.

B. DESIGN REPORTS

- (1) Request for Exceptions to Design Standards: Not included
- (2) Encroachment Report: Not included
- (3) Roadside Hazard Analysis: Not included
- (4) Safety Certification: Not included
- (5) Other Reports:

Prepare the following engineering reports/analyses as directed by the MUNICIPALITY:

- (a) Design Study Report
- (b) Water quality/SE Region Storm Water Spreadsheet
- (c) Transportation Management Plan (TMP) Type 2
- (d) Complete Streets Memo for inclusion in DSR
- (e) Public Involvement Plan (PIP)

C. ENVIRONMENTAL DOCUMENTATION

Execute a disclosure statement as required by 40 CFR 1506.5(c).

Prepare Categorical Exclusion Checklist (CEC) Environmental document for the PROJECT as specified in the MANUAL and Chapter TRANS 400, Wisconsin Administrative Code. Furnish the required number to the MUNICIPALITY for approval.

Prepare an environmental document that evaluates reasonable alternatives to the PROJECT and consider other reasonable actions or activities that may achieve the same or similar goals of the proposed highway PROJECT, including other or additional transportation alternatives and intermodal opportunities and the alternative of taking no action. Evaluate alternative courses of action based upon a balanced consideration of the environment, public comments, and the need for safe and efficient transportation consistent with local, state, and national environmental goals. Prepare environmental documents that are concise and emphasize significant environmental issues and plausible alternatives. Comply with requirements specified in the MANUAL and TRANS 400, Wisconsin Administrative Code. In the event of a conflict between the MANUAL and TRANS 400, Wisconsin Administrative Code, the administrative rule supersedes.

- (1) Agricultural Impact Notice: Not included.
- (2) Section 4(f) Evaluation: Exception Anticipated for Adjacent 4(f) Resource
- (3) Section 6(f) Evaluation: Not included.
- (4) Historical and Archaeological Surveys and Studies:
 - (a) The PROJECT will be submitted for screening by the MUNICIPALITY. No further Historical and Archaeological Surveys and Studies are included.
- (5) Noise Analysis: Not included.
- (6) Air Quality: Not included.
- (7) Hazardous Materials/Contamination Assessments: Not included

D. AGENCY COORDINATION

- (1) WisDOT Transportation Construction General Permit:

Ground disturbances are anticipated to be less than 1 acre. A WisDOT Transportation Construction General Permit (TCGP) will not be required.
- (2) Federal Aviation Association (FAA)

Prepare a coordination letter to notify the FAA of the proposed improvements and construction activities. A formal FAA filing is not included.

- (3) Coordinate with agencies as set forth in the MANUAL, including:
 - (a) WI Department of Natural Resources (WDNR)
 - (b) US Fish and Wildlife Service (USFWS)
 - (c) Native American Tribes
- (4) Coordinate with agencies as set for in the Request for Proposals, including:
 - (a) City of Waukesha Community Development Department
 - (b) City of Waukesha Parks, Recreation, and Forestry Department
 - (c) City of Waukesha Board of Public Works
 - (d) City of Waukesha Common Council
- (5) Wetland delineation, if needed, is to be completed by the Wisconsin Department of Natural Resources or SEWRPC as determined in the preliminary design phase..

E. RAILROAD/ UTILITY INVOLVEMENTS

- (1) Railroad Negotiations/Agreements

Prepare railroad certification document for approval by the DEPARTMENT. The project will be coordinated through the Region Railroad Coordinator. Documentation is limited to the railroad certification required for final plans, specifications, and estimate.

- (2) Utility Coordination

Perform all utility coordination in accordance with:

- a) The MANUAL
 - b) The WisDOT "Guide to Utility Coordination"
- (3) Confer on an ongoing basis with all utility facility owners in the project vicinity to establish mutual understanding on design features of the project affecting utility facilities and shall keep the MUNICIPALITY informed of all such coordination activities. Provide the MUNICIPALITY with plans and information that will allow it to meet its planned utility coordination schedule.

F. PUBLIC INVOLVEMENT

- (1) Public Involvement Meetings:

- (a) Assist the MUNICIPALITY in holding one (1) public involvement meeting. MUNICIPALITY to conduct the meeting without the CONSULTANT present.
- (b) Prepare all exhibits and supplementary handout material to conduct the public involvement meeting.

- (c) Discuss with the MUNICIPALITY the comments received and recommend the possible disposition of these comments and suggestions after the public involvement meeting.
 - (d) Make all the necessary arrangements for scheduling the public involvement meeting and provide notices and press releases for the MUNICIPALITY'S use.
 - (e) Provide the MUNICIPALITY with copies of all public involvement correspondence and file notes.
- (2) Website:
- (a) Prepare materials describing the proposed project for the MUNICIPALITY to post on their website (Project Page) and provide quarterly updates.
 - (b) The website description shall contain PROJECT information such as project team contact information, design schedule/timeline, meeting information (upcoming details and meeting summaries), and project exhibits.

G. MEETINGS

- (1) Hold an Operational Planning Meeting to discuss the organization and processing of the Services under this CONTRACT. CONSULTANT shall have staff consisting of Project Manager and Lead Designer attend the meeting. The CONSULTANT shall invite utility companies, public and elected officials, and other agencies to the OPM. The OPM shall be held at the MUNICIPALITY's facility.
- (2) One (1) 60% plan review meeting shall be held after approval of the Design Study Report.
- (3) One (1) Final Plan Review Meeting with the MUNICIPALITY shall be held approximately 45 - 60 days ahead of the P.S. & E. submittal date.
- (4) Attend the pre-construction conference as scheduled by the DEPARTMENT/MUNICIPALITY.
- (5) Eight (8) monthly meetings shall be held to plan, review, and coordinate the PROJECT with the MUNICIPALITY staff. These meetings are anticipated to be virtual.

H. SURVEYS

- (1) Provide topographic survey along E. Moreland Blvd. from E. Saint Paul Ave to the Canadian National Railway. Limits shall include the eastbound roadway and one-half of the westbound roadway and shall follow the southerly back of sidewalk. Topographic/DTM information shall include, but not be limited to: driveways, field entrances, cross culverts, drainage courses, edge of pavement, driveway and

shoulders; all buildings and appurtenances; trees (larger than 3 inches in diameter, with size in inches); wood or brush limits; water courses and drainage facilities; retaining walls; signs and mailboxes.

- (2) Perform Diggers Hotline utility survey within the topographic/DTM survey limits described above. Sanitary and storm sewer structure depths and pipe sizes will not be measured. Traffic conditions may prohibit access to some structures. Confined space entry restrictions prevent surveyors from entering utility structures. Additional mobilizations, submitting relocate requests, submitting additional tickets, submitting appointment tickets, and/or attending locator meetings are excluded from the scope of services. System maps provided by utility owners in response to the prints tickets will be used to input marked utilities in their per plan location within the limits described above.
- (3) MUNICIPALITY to provide information necessary for the accurate representation of existing right of way on the PROJECT plans. This does not include location property pipes within the survey limits. Setting or resetting of property corner monuments lost during construction is excluded from the scope of services.
- (4) Locate existing or provide for a sufficient number of benchmarks to provide proper elevation control for the PROJECT and shall include a written log of all benchmarks established, their location by station and offset, a description of the actual benchmark, and its elevation.
- (5) Include a sufficient number of control points to provide proper horizontal control for the PROJECT and shall include a written log of all control points established, their location by station and offset, a description of the actual control point, and its coordinates.
- (6) Surveys shall be referenced to the Wisconsin County Coordinate System (WCCS) Waukesha County, NAD 1983 (2011).
- (7) Submit all survey data (including description, measured and computed data) to the MUNICIPALITY in WisDOT Civil 3D 2020 .dwg format.
- (8) Provide a separate mobilization to survey the location of delineated wetlands and additional utilities (as needed).

I. SOILS AND SUBSURFACE INVESTIGATIONS

- (1) No subsurface investigation is anticipated.

J. ROAD PLAN

Section II C (9) in the Standard Provision of the CONTRACT is replaced with the following:

- 1) Title Sheet
- 2) General Notes/Utility Contacts

- 3) Typical Cross Sections
- 4) Construction Details
- 5) Plan Details (including Storm Sewer Inlet Replacement)
- 6) Erosion Control Plan
- 7) Pavement Marking Plan
- 8) Traffic Control and Detour Plan
- 9) Miscellaneous Quantities
- 10) Standard Detail Drawings
- 11) Structure Plan

K. STRUCTURE PLANS

- (1) Prepare a Structure Survey Report for bridge rehabilitation in accordance with the MANUAL. The completed preliminary plan shall show the structure plan, elevation, and typical cross section, and all pertinent data shall appear on the first sheet(s) of the completed structure plans. Four prints of this plan and the Structure Survey Report shall be submitted to the DEPARTMENT and WDOT for review. The MUNICIPALITY and WDOT will review this preliminary plan and the Structure Survey Report and return one print to the CONSULTANT showing requested revisions, if any.
- (2) Plans for structures shall be fully dimensioned besides showing controlling elevations. The plans shall be prepared with such precision and detail to allow for the convenient layout in the field with customary degree of accuracy, and to allow for the production of an accurate estimate of quantities for all pertinent items of work to be performed in the PROJECT.
- (3) When the plans for a structure have been completed the CONSULTANT shall furnish the MUNICIPALITY with three sets of prints of such plans for review and examination.
- (4) Submit three copies for review and examination of all specifications for items of work in the Structure Plans which are not covered by the STANDARD SPECIFICATIONS and such amendments to or revisions of the STANDARD SPECIFICATIONS as may be required to properly cover the work contemplated by the plans.
- (5) Plans will be subject to review and examination by the MUNICIPALITY. Such review and examination may be made on the site of the PROJECT.
- (6) Along with the plans for structures submit one copy or reproduction of the design computations for the MUNICIPALITY'S review and permanent file.
- (7) Furnish such other pertinent information and data with respect to the plans and design as the MUNICIPALITY may request.
- (8) A field visit will be conducted to locate the areas of concrete surface repair and stone masonry repair on bridge substructure.
- (9) Bridge deck sealing shall be designed and detailed. Plans will include the necessary number of sheets detailing the deck sealing.

- (10) Structure design calculations shall include re-rating calculations in accordance with the manual if required by the DEPARTMENT.

L. TRAFFIC

- (1) The MUNICIPALITY shall furnish traffic forecasting and growth projections to the CONSULTANT.
- (2) The MUNICIPALITY shall determine the desirable means of traffic control, closure, and detour for the CONSULTANT's inclusion in the project plans and specifications.

M. PLANS, SPECIFICATIONS, & ESTIMATES (PS&E)

- (1) Provide reference line information, including all mainline and side road reference lines and the project control necessary to establish such reference lines. All proposed alignments must be assigned a feature code of PRL and all existing alignments must be assigned a feature code CL. In addition, for each alignment a report of the alignment/reference line details (bearing, curve data, etc.) shall be provided. The format of this report is provided in the FDM. The format of the file containing reference line information shall be in accordance with the standards outlined in the FDM.
- (2) Provide existing surface data. The format of the existing surface data shall be accordance with the standards outlined in the FDM.
- (3) Provide existing topographic data which is classified as utility information. DEPARTMENT standard feature codes and point connectivity methods must be used in the data files submitted. The format of the topographic data shall be accordance with the standards outlined in the FDM.
- (4) Provide existing topographic data which is classified as other than utility information. DEPARTMENT standard feature codes and point connectivity methods must be used in the data files submitted. The format of the topographic data shall be in accordance with the standards outlined in the FDM.
- (5) Provide other Survey Information, as deemed necessary by the MUNICIPALITY and Project Manager. The format of the miscellaneous survey information shall be in accordance with the standards outlined in the FDM.
- (6) Provide the MUNICIPALITY electronic copies of all plan sheets in AutoCAD format.

N. SERVICES PROVIDED BY THE MUNICIPALITY

The MUNICIPALITY will provide to the CONSULTANT the following for the PROJECT:

1. Copies of existing plans and right of way plats.
2. As-built plans.
3. City of Waukesha GIS data.
4. Electronic copy of the City's Standard Construction Specifications.
5. B-67-205 Independent Engineering Study Report
6. State/Municipal Agreement
7. Wetland delineations/report to be produced by SEWRPC or WDNR.

8. Public Involvement mailings, invitations, and publishing the news release will be completed by the MUNICIPALITY.

P. PROSECUTION AND PROGRESS

- (1) The CONSULTANT shall report on the progress of the PROJECT as stipulated in the contract agreement. Standard benchmarks, consistent with DEPARTMENT'S internal staff benchmarks, will be reported monthly to the MUNICIPALITY and DEPARTMENT. The actual start projected or actual finish date, and percent of work complete will be included for all relevant benchmarks on any project report required for delivery to MUNICIPALITY and DEPARTMENT staff. The report can be delivered in electronic format consistent with current DEPARTMENT standards (Microsoft Project), or on paper.
- (2) The following items of work will be completed and submitted to the MUNICIPALITY by the indicated dates if CONSULTANT has received the Notice to Proceed by March 1, 2023.
- (3) The following items of work as scheduled require timely reviews by the MUNICIPALITY and the DEPARTMENT.

Report Title	Date
Survey	3/15/23
Operational Planning Meeting	3/10/23
30% Plans and Estimate	4/1/23
Preliminary Structure Plan & Structure Survey Report	4/1/23
Public Involvement Meeting	4/15/23
Environmental Document	5/1/23
Traffic Management Plan	5/1/23
Design Study Report	7/1/23
60% Plans and Estimate	7/1/23
Pre-Final PSE Package	9/1/23
Final Structure Plans	9/1/23
Final P.S. & E.	11/1/23