EXHIBIT "I"

SCOPE OF SERVICES

Job. No.	JSE0118
Scope	Replace J0092
Preliminary Survey	
Survey Pickup Work	X
Prel. Geotech Report	X
Foundation Investigation	X
Staking of Sounding Locations	X
Preliminary Bridge Design	X
Final Bridge PSE	X
Preliminary Roadway Design	X
ROW Plans	X
Final Roadway PSE	X
RR Coordination	X
Utility Coordination	X
Environmental Services	
Construction Inspection	

The consultant shall perform the following services, all in accordance with the standard practice of the Commission and the following:

AASHTO "A Policy on Geometric Design of Highways and Streets" (latest version)

AASHTO "Roadside Design Guide" (latest version)

AASHTO "LRFD Design methods" (latest version)

AASHTO "Highway Drainage Guidelines" (latest version)

"Manual on Uniform Traffic Control Devices" (latest version)

"Highway Capacity Manual" (latest version)

I Administration

CONSULTANT shall participate in the following as part of the Administration tasks:

(A) Attend and document milestone project meetings with MoDOT (CORE Team meetings). Meetings will be held virtually except for the project kick off and final design field check meetings.

(B) Correspondence (emails, letters, meeting minutes, phone calls)
(C) Set up the project and conduct Kick-Off Meeting.
(D) Coordination with subconsultants.
(E) Participate in one Public Meeting. Develop handouts and exhibits for meeting.
(F) Provide monthly progress reports and invoices and review subconsultants invoices and reports.
(G) Provide exhibits, sketches, and back-up data to MoDOT on an as-needed basis.
(H) Provide information to support the SW District MoDOT staff in maintaining a public website for the project staff to inform the public and update impacts related to the project including timelines, changes to the project, meetings, comments. The website to be maintained through the construction phase.

II Surveys

CONSULTANT shall obtain topographic survey information required for the preparation of preliminary, right of way, and final roadway plans including:

(A) Perform a thorough review of any existing surveys.
(B) Coordinate available survey control and benchmarks with surveyors.
    a. Translate control and benchmarks into sheet drawings to be used in construction plans, per EPG.
(C) Complete remaining topographic surveys to develop preliminary plans, bridge survey, right-of-way plans and final roadway plans, including all improvements and existing topography within the limits of the project. Topographic surveys shall consist of all pertinent topographic features including, but not limited to:
    a. existing drainage and sanitary structures (pipes, types, flowlines, sizes)
    b. trees over 4 inches in diameter
    c. additional existing retaining wall shots and type of wall
    d. building front elevations and pertinent building features
    e. pertinent parking lot features
    f. driveway joints, pavement types and profiles
    g. existing signal equipment surveys
    h. drainage swales
    i. sign posts, size, identification and photo log
    j. pavement marking type
    k. miscellaneous roadside identification and photo log
    l. lighting
    m. other
(D) Field locate visible above ground evidence of utilities located within the project area. “Missouri One Call” and MoDOT will be contacted and a formal request will be submitted for marking the locations of member utilities. In the event that “Missouri One Call” fails to respond, in whole or in part, to the formal request, underground facilities, structures, and utilities will be plotted from surveys and/or available records. The locations of all utilities are to be considered approximate. There may be other utilities, whose existence may not be known at the time of the survey.
(E) Coordinate with District Utility Engineer on underground utility one-call locates and have utilities located in identified areas of proposed project.
(F) Complete utilities survey and verify completeness and accuracy of utility topographical survey.
(G) As-needed punch list surveys due to design updates and/or new development.

CONSULTANT shall perform right-of-way surveys necessary for the preparation of preliminary, right of way and final roadway plans including:

(A) Identify at the earliest opportunity, the title reports to be ordered by the COMMISSION. This will be coordinated during the preliminary design phase of the project.
(B) Locate existing right of way, property lines and pertinent section lines for the entire project limits.
(C) Clearly identify linework in drawing with text (i.e. property lines (PL), section lines, quarter-quarter section lines, existing right-of-way, existing easements, etc.
(D) Research impacted parcels. Each of these properties within the project limits shall include property owner name, assessor's map number, last deed book and page, and existing size of parcel in square feet.
(E) All property lines shall have a bearing (to the nearest second) and a length (to the nearest hundredth of a foot) shown and the parcel closed within acceptable tolerances governed by the State of Missouri.
(F) Incorporate all easements and identified information from the title work into the existing right-of-way drawing.
(G) Provide a reference tie drawing with three-point ties.
(H) Establish land corner ties.
(I) If necessary, the CONSULTANT shall provide a land survey plat that is compliant with the current standards for property boundary surveys to be recorded. The CONSULTANT shall also provide survey plats and legal descriptions as defined in Section 236.4.6 of MoDOT's Engineering Policy Guide.

III Utility Coordination

The CONSULTANT shall perform the following utility coordination tasks:

(A) Obtain maps from utilities of their known locations and adjust survey limits as needed.
(B) Coordinate submittal of preliminary plans to utility companies.
(C) Coordinate with utility companies on the development of the plan of adjustment and obtain cost estimates for reimbursable utilities for the District Utility Engineer's approval.
(D) Show the existing utility facilities and plan of adjustments for proposed utilities facilities in the contract plans. (plans sheets, cross sections, culvert sections)
(E) Coordinate with utility owner the relocation of each impacted utility on the project during design and construction.
(F) Prepare special utility sheets as necessary (including utility profile and exhibits).
(G) Assist District Utility Engineer in the preparation of agreements (includes municipal agreements).
(H) Identify locations for power service needs, prepare service request for submittal and coordinate with the power company to obtain estimated costs.
(I) Coordinate with MoDOT (PM and District Utility Engineer) and to provide SUE test hole information at critical utility locations.
(J) Prepare utility job special provision and information for the preparation of the Utility Status Letter for District Utility Engineer.
(K) Provide assistance and answer utility related questions during the construction phase for MoDOT staff and the roadway contractor.

IV Railroad Coordination

The consultant shall coordinate design of the project with the Railroad(s) and MoDOT's Multimodal Operations-Rail (MO-R) group in accordance with the guidance provided in MoDOT EPG Section 643.4.

(A) The CONSULTANT shall furnish all drawings and documentation necessary to gain approval from the railroads. This may include drawings and documentations necessary to meet the railroads preferred design parameters along with drawings and documentation to gain approval of a variance by the railroad.

(B) The COMMISSION will provide a template Job Special Provision (JSP) for the railroad. The CONSULTANT shall modify the JSP as necessary with approval of MoDOT.

(C) The COMMISSION will complete any necessary agreements and right of way transaction with the railroad. The CONSULTANT shall provide any drawings to be used as exhibits for these documents.

(D) The CONSULTANT shall be responsible for all communications with the railroad concerning approval of the design and JSP. All communications with the railroad shall include a copy to the MO-R representative and the MoDOT Project Manager or Structural Liaison Engineer.

(E) The CONSULTANT shall provide meeting minutes to any meetings with the railroad.

V Geotechnical Investigations

The CONSULTANT will perform all geotechnical work and provide the Preliminary Geotechnical Report and Foundation Investigation Report in accordance with section 320 of the MoDOT Engineering Policy Guide (EPG). Other chapters may be applicable.

Fertility samples will be collected by the CONSULTANT and sent to MoDOT's Central Laboratory for testing. The COMMISSION will provide the seeding report based on the fertility samples collected.

The CONSULTANT will provide staking for geotechnical boring locations.

(A) Perform all geotechnical work necessary for the project including the Preliminary Geotechnical Report and the final bridge soundings.

(B) Consultant is responsible for obtaining all necessary permits to perform the work.

(C) Produce a preliminary geotechnical report which includes an initial geotechnical investigation of the site including recommended spill slopes. The site work for the preliminary geotechnical work and the final soundings may occur simultaneously.

(D) Perform all necessary bridge soundings and testing and incorporate into a Foundation Investigation Report. The report shall include rock core photographs, recommended foundation types, recommended foundation capacities, applicable resistance factors and L-pile parameters for lateral load analysis of driven piles or drilled shafts.

(E) All boring holes shall be filled with cuttings.

(F) Public utilities shall be notified via Missouri One-Call before drilling begins.

(G) The cores shall be handled and labeled following MoDOT procedures.

(H) Laboratory testing will be performed to estimate pertinent engineering properties of the soil overburden and soil and rock properties for design. Consultant shall provide staking for boring locations.

(I) The CONSULTANT shall provide the following information on their boring logs:

a. N value of blows per foot
b. N_{60} value of blows per foot (corrected for the energy efficiency of the auto-hammer)
c. Energy efficiency of the auto hammer
d. Drilling equipment identification
e. Boring locations (Stations and/or Coordinates, and Elevations with datums)

(J) The consultant shall provide, at a minimum, a geologist registrant in training (GRIT) or an engineer in training (FE) to log the borings in the field per MoDOT's logging protocol. The engineer or geologist shall have at least 2 years of experience logging boreholes. Logs shall be reported in gINT format. MoDOT will provide preferred gINT templates when requested. At final submittal, please provide a copy of the electronic gINT file, in addition to the final report deliverables.

(K) The consultant will perform standard penetration testing (SPT) and split-barrel sampling in accordance with ASTM D1586 using an automatic hammer in accordance with section 7.4.1 Method A. The automatic hammers shall be calibrated in accordance with ASTM D4633 at least every 2 years or sooner as required therein. The calibration report shall be prepared in accordance with ASTM D4633 and shall be signed and stamped by a professional engineer.

(L) A draft copy of the final draft report should be submitted to the MODOT Geotechnical Section for review prior to signing and sealing the report.

VI Preliminary Roadway Design

The CONSULTANT'S attention is directed to Chapter 235 of the MoDOT Engineering Policy Guide (EPG) for general guidelines and requirements for preliminary design. Other chapters may be applicable for preliminary design preparation.

(A) Upon approval of the design criteria memorandum by COMMISSION, the CONSULTANT shall undertake the following to develop the preliminary design phase:

a. Prepare preliminary plans, as outlined in the MoDOT EPG.
    i. The COMMISSION shall furnish the CONSULTANT traffic information for the construction and design years to be used in the preliminary plans.
    ii. The COMMISSION shall furnish the CONSULTANT the latest accident data and traffic information used to calculate the project accident rate. The COMMISSION shall furnish the CONSULTANT the "statewide accident rate for a similar class of roadway" and any high hazard locations within the project limits.
    iii. The CONSULTANT shall submit the preliminary plans to the COMMISSION for review and approval as shown in Exhibit IV.
b. The preliminary plans shall be prepared in accordance with the applicable sections of the MoDOT EPG, as to what shall be shown thereon, including proposed design features.
    i. The plan view English scale shall be 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity) and extend 100 feet beyond project limits.
    ii. The profile view English scale shall be 1"=50' horizontal, and 1"=10' vertical.
c. The CONSULTANT may have to review preliminary cross sections sufficiently to make a cost comparison between using retaining walls versus acquiring additional right of way for all proposed wall locations.
d. The CONSULTANT shall prepare the construction estimate. The COMMISSION shall prepare the right of way estimate based on the right of way requirements furnished by the CONSULTANT.
e. The preliminary plans shall be submitted to the COMMISSION for review and approval. A letter of transmittal shall be provided with the preliminary plan submittal. The COMMISSION shall furnish the template for the letter of transmittal. The construction cost estimate shall also be submitted with the preliminary plans.
f. The preliminary plans shall include the tentative additional easement and right of way limits, property lines and ownerships, section lines, township and ranges, any U.S. Surveys, city limits, and a general outline of the construction staging, critical design items and other items as outlined in the EPG.
g. Traffic assignments shall be shown on the respective roadways or on a line sketch of the roadways.

h. Typical sections shall indicate heavy, medium or light duty pavement for new roadways, along with descriptions of the existing roadway types remaining in place.

(B) A Preliminary Field Check will be arranged by the CONSULTANT with the COMMISSION to discuss design features in the project area.

(C) The CONSULTANT shall provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the preliminary stage RES, right of way stage RES (if needed) and final stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.

(D) The CONSULTANT shall prepare and submit the Bridge Survey Report, Bridge Survey Sheets, and Bridge Survey Checklist.

(E) The CONSULTANT shall set horizontal and vertical control for the project and provide the COMMISSION the combined adjustment factor. All control furnished by the CONSULTANT shall use current datums and adjustments.

(F) The CONSULTANT shall provide all land boundary work and legal descriptions to the COMMISSION for review and approval prior to right of way plans submittal.

(G) The COMMISSION shall provide the pavement design and general Job Special Provisions related to the project including any special design elements.

(H) The COMMISSION may hold a public meeting for this project either in person or virtually and the CONSULTANT will be required to attend and coordinate meeting. The CONSULTANT shall provide exhibits for MoDOT public meeting as requested and will refer to the sections of the EPG concerning public involvement.

VII Preliminary Bridge Design

(A) Perform the geometric analysis at the proposed bridge site necessary to develop type, size and location drawings consisting of a general plan and elevation plan of the structures, typical roadway sections and roadway profiles. This includes preparation of the Bridge Memorandum & Layout (including the itemized preliminary bridge estimate).

(B) The structure and/or box culvert type and size (if applicable) shall be based on roadway alignments, geometric analysis, hydraulic analysis (if applicable), spill slope requirements, roadway overpass clearances, grades and/or clear zone requirements.

(C) The superstructure type shall be dependent upon site constraints and a detailed cost analysis comparison.

(D) All requirements of the Federal Emergency Management Agency's National Flood Insurance Program shall be met.

(E) Discharges will be estimated using USGS Regression Equations and available stream gauge data (if applicable).

(F) HEC-RAS shall be used to model of the natural, existing and proposed conditions (if applicable).

(G) Scour calculations shall be performed in accordance with FHWA Hydraulic Engineering Circular No. 18 (if applicable).

(H) The results of the hydrologic, hydraulic and scour analysis shall be documented in the Bridge Hydraulic and Scour Report (if applicable).

(I) All requirements outlined in the MoDOT Engineering Policy Guide (EPG) shall be met. The CONSULTANT shall follow MoDOT's "practical design" philosophy and submit any design exceptions as necessary.

(J) Develop final detailed design criteria in the form of Bridge Memorandum and Bridge Design Layout documents.

VIII Section 404 Corps of Engineers Permit (if applicable)

The CONSULTANT shall provide the following information necessary to allow MoDOT staff to apply for any required Section 404 Corps of Engineer Permits. If the permit is required due to bridge construction, the application data shall be submitted no later than with the T.S.&L. drawings. All information should be provided to the MoDOT Project Manager who will forward the information to Central Office Design.

(A) Provide the amount and type of excavation and material that will be used in streams, lakes, and wetlands below the Corps of Engineers' ordinary high water line (OHL) elevations.

(B) Provide location and quantities of permanent berms and spill fills below OHL.
   a. Earth fill, rock blanket (square feet and cubic yards)
   b. Rock blanket along right descending bank and left descending bank (linear feet)
   c. Rock ditch (square feet)

(C) Provide location, excavation and size of pier below OHL.
   a. Excavation (cubic yards)
   b. Pier (square feet)

(D) Provide channel realignment data.
   a. Existing channel length of section to be modified (feet)
   b. Average channel width of section to be modified (feet)

c. Realigned section, length and width (feet)

(E) Provide temporary fill amounts in wetlands or below OHL in streams.
   a. Earth fill (square feet and cubic yards)
   b. Class C (square feet and cubic yards)

(F) Provide information about temporary fills and shoring.
   a. Location of temporary fills and shoring
   b. Source of material
   c. Final disposition of removed materials

(G) Provide information about temporary culverts.
   a. Number of culverts
   b. Size (inches)
   c. Length (feet)

(H) Provide information on channel cleanout – excavation below OHL.
   a. Cleanout upstream and downstream of structure (linear feet)
   b. Total quantity of material to be removed below OHL (square feet and cubic yards)

(I) Provide 8 ½-inch by 11-inch copies of any plan or profile sheets required for the permit application.

(J) Provide bridge elevation and plan views with OHL indicated.

IX Right of Way Design

(A) The CONSULTANT shall prepare right of way plans, which may be separate drawings from those used for design and construction details. The right of way plans shall show alignment, geometric design, removal of improvements, drainage facilities, property lines and ownership, sub-division lot lines, other land survey information, street lines and existing right of way and easements. The CONSULTANT should also include any plan details, which will require additional right of way or permanent, temporary or utility easements during the construction phase of the project such as bypasses, temporary erosion control, etc. Right of way plans include title sheet, typical sections, profile sheets, and cross sections of the roadway, entrances and side roads. Areas of new right of way, permanent easements and/or temporary easements required from each individual property owner may be shown in tabular form on the respective sheets.

   a. The CONSULTANT shall finalize any previous review of the roadway cross sections sufficiently to determine the feasibility of constructing retaining walls versus obtaining additional right of way. This final review shall consist of construction estimates versus right of way estimates.
   b. Upon completion of the estimates by COMMISSION and CONSULTANT, the CONSULTANT shall recommend to the COMMISSION a choice at the various locations which warrant consideration of the alternate retaining wall versus right of way solutions. The COMMISSION shall make the final determination of purchasing right of way, or constructing retaining walls.

(B) Right of way plans shall be submitted to the COMMISSION for review and approval. The right of way plans shall be at the same scale as the construction plans. The right of way plans shall include any design details that will control the width of right of way and necessary easements.

a. New right of way lines and all easements shall be dimensioned by station and offset distance from the centerline, or crossroad centerlines, if necessary. Bearings and distances on the right of way lines may be required.
b. The following minimum design features shall be included on the right of way plans:
    i. Title sheet with appropriate project limits, access note and traffic data completed.
    ii. Typical Sections
    iii. Cross sections at 100' intervals, including additional sections at each entrance with new and existing entrance grades.
    iv. Construction limits (slope lines); drainage facilities; entrances and their reference location, width and type along with their existing and future grade percentage; property owners, with areas of new right of way, easements and remaining property; centerline bearing, ties to legal land corners from centerline stations with notation for corner witness by a registered land surveyor; existing utility locations and easements, including replacement utility easements; horizontal curvature information; and proper right of way symbolization for new right of way (access control) and easements, including areas which may be required to accommodate temporary erosion control.
    v. Township, Range, Section and/or U.S. Survey information broken down t ¼ ¼ section line level on each plan sheet near the title block or appropriate survey/section line.

(C) The CONSULTANT shall provide an updated construction estimate for the Right of Way design stage.

(D) The COMMISSION shall review, approve and certify the right of way plans as completed by the CONSULTANT. The CONSULTANT shall provide one (1) electronic set of fully signed and sealed right of way plans, for the COMMISSION'S use.

(E) The CONSULTANT shall provide title insurance information for all parcels with new right of way acquisition and the last deed of record for any parcel with easements.

(F) The COMMISSION will prepare right of way appraisals and secure the necessary right of way by negotiation or condemnation, if necessary, for construction of this project.

(G) The CONSULTANT shall be responsible for staking and re-staking tentative right of way on individual properties, as required by MoDOT staff, during right of way negotiation and acquisition phase of the project. The CONSULTANT shall also set permanent monuments as shown on the recordable land survey.

(H) The CONSULTANT shall be responsible for making all revisions to the right of way and construction plans due to negotiations with the property owners in an effort to acquire right of way.

(I) The CONSULTANT shall write, sign and seal deed descriptions for all right of way acquisitions on MoDOT's approved Exhibit A form and submit to COMMISSION.

(J) The CONSULTANT will provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the Right of Way stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.

X Final Roadway Design

(A) The COMMISSION will secure execution of municipal agreements with the cities and/or county agreements. A copy of the executed agreements will be furnished to the CONSULTANT for his information. The CONSULTANT shall conform to all design provisions of these agreements.

(B) A final design field check shall be held with CONSULTANT and COMMISSION representatives prior to completing final design plan quantities. The CONSULTANT shall make any necessary revisions to the final plans as determined by this design field check.

(C) The CONSULTANT shall prepare detailed temporary erosion control plans for review and approval before inclusion in the final design plans. The CONSULTANT will submit a Final Plans stage RES and help ensure previous RES items have been addressed.

(D) The CONSULTANT shall prepare computations for all design plan quantities. All plan quantities shall be shown on the Quantity Sheets, by construction stage, if applicable. The format for these sheets shall be furnished by the COMMISSION. Specialty items may have separate sheets for quantity tabulations.

(E) The CONSULTANT shall prepare for review and approval by the COMMISSION all General Job Special Provisions, which are to supersede the Missouri Standard Specification for Highway Construction. A brief reason for the deviation from the standard plans and specifications should also be provided. The CONSULTANT shall prepare only Job Special Provisions related to design elements shown in the plans.

(F) The following list shall be considered the minimum requirements for a complete set of Final Design Plans.

a. Title Sheet
b. Typical Sections
c. Quantity Sheets
d. Plan Sheets at 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity). Plan sheets shall include all necessary adjustments to signing and proposed pavement marking.
e. Profile Sheets at 1"=50' horizontal and 1"=10' vertical
f. Culvert Sections at 1"=10', if needed
g. Special Sheets for geometrics, referenced points, grading plan, traffic control plan, temporary erosion control plan and any other sheets for special design features.
h. Earthwork Quantities, Cross Sections at 25' intervals, 1"=10' (1:100), horizontal and vertical, including entrance sections with existing and proposed grades
i. Tabulation of Quantity Sheets
j. Job Special Provisions in electronic format readable in COMMISSION'S current word processor
k. File with the bid items and quantities as generated by COMMISSION'S Estimate Program
l. Construction Workday Study
m. Transportation Management Plan
n. Final Plans Checklist Form D-12

(G) Additional plans and information may be required to complete the Final Design Plans. With the submittal of the Final Design the CONSULTANT shall also provide the COMMISSION a statement that an internal quality control check has been conducted and to the best of the CONSULTANT'S knowledge the final design plans are free of gross errors, misleading or confusing typos, and includes adequate information to construct the project.

(H) The CONSULTANT shall prepare all plans through the use of a Computer Aided Drafting (CAD) program. The CONSULTANT shall conform to MoDOT's Specifications for Computer Deliverable Contract Plans as referenced in the MoDOT EPG.

(I) The CONSULTANT shall furnish the COMMISSION the following completed sheets and documents, as applicable, for each separate construction project included in this contract, as follows:

a. Final Design Plans showing profile grades, geometric data, alignment data, etc.
b. One (1) electronic copy of the location sketch for Commission Approval submitted in electronic format.

c. Draft copy of the job special provisions related to design elements for review. After corrections, the job special provisions shall be furnished in electronic format utilizing the COMMISSION'S latest word processing program.
d. One (1) legible electronic copy of engineering calculations and analysis.
e. One (1) electronic copy of a complete summary of quantities and estimate of construction costs. The estimate shall be prepared using the latest version of MoDOT's ESTIMATE program.
f. One (1) electronic copy of Electronic Design Data.
g. One (1) electronic copy of a workday study showing the estimated number of workdays required to construct each project.
h. The CONSULTANT shall provide a 3D model of the project exported from Geopak Open Roads Designer software for the COMMISSION'S use.

XI Final Bridge Design

Furnish to the COMMISSION fully checked design plans, job special provisions, design computations, quantity computations, final cost estimate, and a construction workday study for the structure(s). The CONSULTANT is expected to make the COMMISSION aware of more economical design alternatives that may become apparent during the preparation of the final design.

(A) The plans shall be complete and shall cover all parts of the structure they represent. The degree of detail shall be comparable to that furnished on typical plans prepared by the COMMISSION. High resolution final signed and sealed plans, will be submitted in Adobe Acrobat Reader format version 7 or higher. Final signed and sealed plans shall be in pdf full size (34" x 22") format. These deliverables shall use the file naming convention and be in accordance with the "Specifications of Computer Deliverable Contract Plans" requirement outlined in the Commission's Engineering Policy Guide, Section 237.13.3. The electronic plans in Microstation format cannot be signed and sealed. The electronic submittals shall be made in a method suitable to MoDOT.

(B) All construction changes made to the plans during construction of the project shall also be submitted electronically in Adobe Acrobat and Microstation format.

(C) The job special provisions shall be complete and describe all design features, construction procedures, or material requirements in the plans that are deviations from the latest edition of the Missouri Standard Plans for Highway Construction. Typical job special provisions that have been developed by MoDOT for previous jobs are posted on MoDOT's website and are available for use and modification as needed. The job special provisions shall include a table of contents sheet that is signed and sealed by a professional engineer registered in Missouri. The signed and sealed job special provisions shall also be submitted in Adobe Acrobat Reader format, version 7 or higher. Job Special Provisions shall also be submitted in Microstation Word format. The submittal letter shall explain the need for each provision.

(D) The design computations and plans shall be acceptable to and will become the property of the Commission. The CONSULTANT shall submit design computations in Adobe Acrobat Reader version 7.0 format or greater. The files shall be transferred in a manner acceptable to MoDOT. The design computations shall contain an index file, with electronic links to the files contained within. Submittals shall include a set of design computations for each bridge. The design computations shall not be combined with the Microstation or the Adobe Acrobat Reader submittals.

(E) The final estimate submitted by the CONSULTANT shall include backup material that supports the estimates made for non-standard or lump sum pay items.

(F) The CONSULTANT shall submit the hours and cost summarizing the design effort for each bridge. The summary shall include separate amounts for: Number of Hours for Bridge Preliminary Design, Cost of Bridge Preliminary Design, Number of Hours for Bridge Final Design, Cost of Bridge Final Design. Generally, the above amounts should include all hours and costs invoiced that are attributable to bridge design and plans preparation up to the point of turning in the signed and sealed plans. It should not include hours attributable to preparing the bridge survey, final construction cost estimate, or workday study.

(G) Bridge Load Rating: The CONSULTANT shall furnish to the COMMISSION fully checked load ratings for the structure(s) in accordance with EPG Section 753.15. The load rating files shall be acceptable to, and will become the property of, the COMMISSION. The CONSULTANT shall submit the load ratings in an acceptable electronic format (.xml or other approved method) created using AASHTOWare BrR Bridge Rating software version 6.8 or higher. The CONSULTANT shall verify the accuracy of any load rating files provided by the COMMISSION prior to making modifications.

XII Construction Support

(A) The CONSULTANT shall be available to the COMMISSION to discuss and interpret plans and specifications during the bidding and construction phase of the project as determined necessary by the Engineer.

(B) The CONSULTANT shall be available to provide Shop Drawing review of CONTRACTOR submittals pertaining to essential structural components and review any contractor’s Value Engineering Proposals.

(C) The CONSULTANT may be required to attend a pre-construction meeting, and a post construction meeting via TEAMS.

(D) If issues arise during construction, there will be a direct line of communication established between the MoDOT Construction Office and the CONSULTANT. The CONSULTANT will immediately inform the MoDOT Design Division or MoDOT Bridge Division of any recommendations or clarifications made to the Construction Office.

EXHIBIT II

SERVICES PROVIDED BY THE COMMISSION

The Commission will furnish to the Consultant without charge the following information:

A. General design criteria.
B. Available standard detail sheets in Microstation format.
C. Traffic and accident data.
D. Pavement Design Selection
E. All necessary environment services identified through the Request for Environmental Services
F. Right of way and easement acquisition.

The Consultant shall proceed with the final design and detail plans in accordance with the data approved or furnished by the Commission which will meet with the general standards adopted by AASHTO and approved by the Department of Transportation as provided by Title 23, United States Code, Section 109(b).

EXHIBIT IV

PERIOD OF SERVICE

The Consultant shall make submittals in accordance with the schedule described below:

Period of Service	JSE0118
Letting	Nov 2026
PSE	8/1/2026
100% Review Plans	6/15/2026
Final RES	6/15/2026
TSL Bridge Drawings	10/20/2025
ROW Plans/ROW RES	10/20/2025
Public Meeting Exhibits	8/15/2025
Bridge Memo	8/15/2025
Preliminary Roadway Plans	8/15/2025
Preliminary RES	8/15/2025

Construction support as needed post award – Anticipated for 24 months

PERIOD OF SERVICE – The total period of service including construction services is expected to be completed by December 1, 2028.

Missouri Department of Transportation
State Bridge Inspection Report

January 24, 2025
1:47:04PM

COUNTY: STODDARD **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 5246** **BRIDGE: J0092**

GENERAL STRUCTURE INFORMATION

ROUTE: MO51S	**# SPANS:** 8	**PLACE CODE:** 24328 FISK CITY	
FEATURE: ST FRANCIS RVR	**LANES ON:** 2	**LENGTH:** 331 FT 0 IN	
STATUS: A-OPEN	**LANES UNDER:** 0	**MAXIMUM SPAN:** 60 FT 7 IN	
LOG MILE: 96.092	**COMPASS DIRECTION:** WEST to EAST	**APPROACH ROADWAY:** 24 FT 0 IN	
DETOUR: 40.00 MILES	**DIRECTION OF TRAFFIC:** 2-WAY TRAF	**CURB TO CURB:** 21 FT 0 IN	
NHS: NO	**FUNCTIONAL CLASS:** RL-MAJOR COLLECTOR	**OUT TO OUT:** 21 FT 0 IN	
BUILT: 1929	**NBI OWNER:** MODOT	**AADT:** 1291	
REHAB:	**NBI MAINTAINED:** MODOT	**AADT YEAR:** 2023	
LOCATION: S 28 T 25 R 8 E	**MAINTENANCE DISTRICT:** SE	**AADT TRUCK:** 13.0%	
LATITUDE: 36 46 49.40 (DMS)	**MAINTENANCE COUNTY:** STODDARD	**FUTURE AADT:** 1807	
LONGITUDE: 90 12 5.91 (DMS)	**SUB AREA:** 7H41	**FUTURE AADT YEAR:** 2043	

BRIDGE INSPECTION INFORMATION

DATE: 01/14/2025 **RESPONSIBILITY:** BRIDGEDIV
FREQUENCY: 24 **CALCULATED INTERVAL**:** 24
TEAM LEADER: CURT RICKERSON **ELEMENT:** NO
INSPECTOR 2: RANDY WEAVER **INSPECTOR 4:**
INSPECTOR 3: CHRISTOPHER BYRD (NTL(

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

GENERAL INSPECTION COMMENTS

FRACTURE CRITICAL INSPECTION INFORMATION

DATE: **RESPONSIBILITY:** **CATEGORY:**
FREQUENCY: **CALCULATED INTERVAL**:** **NBI:**
TEAM LEADER: **INSPECTOR 3:** **METHOD:**
INSPECTOR 2: **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

FRACTURE CRITICAL INSPECTION COMMENTS

INDEPTH INSPECTION INFORMATION

DATE: **RESPONSIBILITY:** **CATEGORY:**
FREQUENCY: **CALCULATED INTERVAL**:** **NBI:**
TEAM LEADER: **INSPECTOR 3:** **METHOD:**
INSPECTOR 2: **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

INDEPTH INSPECTION COMMENTS

SPECIAL INSPECTION INFORMATION

DATE: 05/09/2017 **RESPONSIBILITY:** DISTRICT **CATEGORY:** DAMAGE POST INCIDI
FREQUENCY: 999 **CALCULATED INTERVAL**:** **NBI:** NO
TEAM LEADER: **INSPECTOR 3:** KEVIN RAITHEL **METHOD:** VISUAL
INSPECTOR 2: DAVE MUSSER **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION INFORMATION

DATE: 06/29/2022 **RESPONSIBILITY:** DIVETEAM **CATEGORY:** DEEP-WADE
FREQUENCY: 60 **CALCULATED INTERVAL**:** 48 **NBI:** YES
TEAM LEADER: TERRY L SHUNAMON **INSPECTOR 3:** JESSE ELSEMAN **METHOD:** OTHER, PROBE
INSPECTOR 2: ADAM ZENTZ **INSPECTOR 4:** MATT TALKEN

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

UNDERWATER INSPECTION COMMENTS

(SHUNAT1, 03/29/2021)--THIS INSPECTION NEEDS TO BE LEFT AS DIVE TEAM RESPONSIBILITY DUE TO SHARP REBAR IN SWIFT CURRENT AT PILE BENTS

OTHER SPECIAL INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
08/24/2016	120	CHANNEL CROSS SECTIONS	NO		DISTRICT	
01/24/2012	999	SCOUR ACTION PLAN	NO		DISTRICT	

OTHER UNDERWATER INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD

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COUNTY: STODDARD **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 5246** **BRIDGE: J0092**

STRUCTURE POSTING

APPROVED CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: **Ton 2:** **Ton 3:**
COMMENTS:

FIELD CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: **Ton 2:** **Ton 3:** **PROBLEM:** **PROBLEM DIRECTION:**
COMMENTS:

GENERAL COMMENTS/MAJOR RATED ITEMS

GENERAL COMMENTS: (BOWDEJ1, 09/05/2008)--(37-37'-38') SMP DECK GDR - (39'-60'-41') SMP WF - (38'-37') SMP DECK GDR SPANS

[ITEM 58] DECK: 5-FAIR CONDITION
RATING : 03/01/2017
COMMENTS: (PICKEJ1, 02/01/2023)--A FEW SPALLS & TRANSVERSE CRACKS WITH LIGHT EFFLORESCENCE THROUGHOUT THE DECK AND DECK GIRDER SECTIONS.

[ITEM 59] SUPER: 3-SERIOUS CONDITION
RATING : 01/15/2025
COMMENTS: (PICKEJ1, 02/01/2023)--HEAVY PACKRUST AND SKEW INDUCED MOVEMENT OF THE SUPERSTRUCTURE IS GREATLY REDUCING (APPROXIMATELY 20% REMAINING) THE BEARING AREA OF THE APPROACH SPANS AT PIER 6. MINOR DISINTEGRATION THROUGHOUT A FEW GIRDER ENDS.
(RICKEC, 01/15/2025)--ADVANCE SECTION LOSS OF FLAT PLATE BEARINGS THROUGHT ALL ABUTMENTS AND BENTS
DUE TO THE DETERIORATION OF THE BEARINGS THEY DON'T HAVE NO BEARING STRENGHT
SPANS 4 AND 5 GIRDERS WITH 50% TO 75% SECTION LOSS OF BOTTON FLANGES AT BEARINGS HAD TO PLACE OAK WEDGES AT SEVERAL AREAS TO SUPPORT GIRDERS DUE TO
SEVERE DETERIORATION OF FLAT PLATE BEARINGS.
SPAN 1 GIRDER 4 WITH ADVANCE SECTION LOSS OF REINFORCED STEEL STIRRUPS

[ITEM 60] SUB: 4-POOR CONDITION
RATING : 10/25/2012
COMMENTS: (MADSEJ, 07/06/2022)--MODERATE TO ADVANCED SECTION LOSS ON H-PILE AT THE WATERLINE. (FROM 2012 UW INSPECTION)

[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE
RATING : 05/18/2001
COMMENTS: (MADSEJ, 03/01/2017)--STEEP ERODING BANKS THROUGHOUT THE CHANNEL. THE RAILROAD BRIDGE WORK JUST DOWNSTREAM OF THE BRIDGE HAS CONSTRICTED THE CHANNEL

[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED
RATING : 06/05/2002
EVALUATION TYPE :
COMMENTS:

[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV
RATING : 05/18/2001
COMMENTS:

[ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY
RATING : 05/18/2001
COMMENTS:

RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS

[ITEM 36A] BRIDGE RAILING RATING: *MEETS CURRENT STANDARDS-1* ***RATING :*** *01/29/2018* ***COMMENTS:***

MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
GALVANIZED STEEL	THRIE BEAM	BOTH	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
COLLISION DAMAGE	THROUGHOUT		MODERATE	

[ITEM 36B] TRANSITION RAILING RATING: *MEETS CURRENT STANDARDS-1* ***RATING :*** *01/29/2018* ***COMMENTS:***

MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
GALVANIZED STEEL	THRIE BEAM TO W-BEAM	ALL	

Design_No = j0092

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COUNTY: STODDARD **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 5246** **BRIDGE: J0092**

[ITEM 36C] APPROACH RAILING RATING: *MEETS CURRENT STANDARDS-1* ***RATING :*** *05/18/2001* ***COMMENTS:***

MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
GALVANIZED STEEL	W-BEAM	ALL	

[ITEM 36D] RAIL END TREATMENT RATING: *MEETS CURRENT STANDARDS-1* ***RATING :*** *01/29/2018* ***COMMENTS:***

MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
GALVANIZED STEEL	BREKAWAY SYSTEM	ALL	

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

MATERIAL	CONSTRUCTION	DIRECTION	CONDITION*	COMMENTS
ASPHALT	BITUMINOUS MAT	BOTH	POOR	

*****DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS*****

DECK PROTECTIVE COMPONENTS:

SERIES TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	THICKNESS	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION
APPROACH SERIES-1	*WEARING SURFACE*	*ASPHALT*	*BITUMINOUS SEAL COAT*	*.4 IN*	*2017*		*GOOD*

COMMENT:

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
TRANSVERSE CRACKS	THROUGHOUT		FEW	

DECK PROTECTION	*NOTAPPLICABLE*	*NONE*

COMMENT:

MEMBRANE	*NOTAPPLICABLE*	*NONE*

COMMENT:

SERIES TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	THICKNESS	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION
MAIN SERIES-2	*WEARING SURFACE*	*ASPHALT*	*BITUMINOUS SEAL COAT*	*.4 IN*	*2017*		*GOOD*

COMMENT:

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
TRANSVERSE CRACKS	THROUGHOUT		FEW	

DECK PROTECTION	*NOTAPPLICABLE*	*NONE*

COMMENT:

MEMBRANE	*NOTAPPLICABLE*	*NONE*

COMMENT:

SERIES TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	THICKNESS	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION
APPROACH SERIES-3	*WEARING SURFACE*	*ASPHALT*	*BITUMINOUS SEAL COAT*	*.4 IN*	*2017*		*GOOD*

COMMENT:

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
TRANSVERSE CRACKS	THROUGHOUT		FEW	

DECK PROTECTION	*NOTAPPLICABLE*	*NONE*

COMMENT:

MEMBRANE	*NOTAPPLICABLE*	*NONE*

COMMENT:

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COUNTY: STODDARD DISTRICT: SE CLASS: STATBR FED-ID: 5246 BRIDGE: J0092

DRAINAGE COMPONENTS:

COMPONENT	MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS

EXPANSION DEVICE COMPONENTS:

SUB UNIT-#	SUB LABEL	COMPONENT	MATERIAL	CONSTRUCTION	GAP	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT	MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
SLOPE PROTECTION	ROCK	GROUTED	BOTH	

DECK COMPONENTS

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	COMMENTS
APPROACH SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	BOTTOM		FEW		
EFFLORESCENCE	THROUGHOUT		LIGHT		
SPALLS	RANDOM		SMALL		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION
APPROACH SPANS-2	DECK	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
SPALLS	BOTTOM		MINOR		
TRANSVERSE CRACKS	THROUGHOUT		OPEN		

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION
APPROACH SPANS-3	DECK	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
SPALLS	RANDOM		SMALL		
TRANSVERSE CRACKS	THROUGHOUT		FEW		(VOYLEC1, 01/24/2023)--SMALL RANDOM SPALLS

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION
MAIN SPANS-4	DECK	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION
MAIN SPANS-5	DECK	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION
MAIN SPANS-6	DECK	REINFORCED CONCRETE	CAST-IN-PLACE

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CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

APPROACH SPANS-7 DECK REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

APPROACH SPANS-8 DECK REINFORCED CONCRETE CAST-IN-PLACE (DANIEC, 06/23/2003)--DECK SHIFTED AT ABUTMENT 9.

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
EFFLORESCENCE	THROUGHOUT		LIGHT		
TRANSVERSE CRACKS	THROUGHOUT		FEW		

SUPERSTRUCTURE COMPONENTS

SERIES TYPE-#	SPAN TYPE	MATERIAL	CONSTRUCTION	LABEL	COMMENTS
APPROACH SERIES-1	*SIMPLE SPAN*	*REINFORCED CONCRETE*	*DECK GIR*		

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
APPROACH SPANS-1	NON-COMPOSITE	37 FT 6 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	GIRDERS		FEW		
OTHER	GDR4		NOT APPLICABLE		(BLALOR1, 06/18/2014)--W/ ONLY 10% BRNG
OTHER	THROUGHOUT		NOT APPLICABLE		(BLALOR1, 06/18/2014)--SHIFTING NORTH @ BT 2 & SOUTH @ ABUT 1- 6"
REBAR SECTION LOSS	GIRDER ENDS		ADVANCED		(PICKEJ1, 02/01/2023)--GIRDER 4
SPALLS	ENDS		MEDIUM		(PICKEJ1, 02/01/2023)--GIRDER 4 END MEDIUM SPALLED ON NORTH SIDE.
SPALLS	GIRDERS		LARGE		(VOYLEC1, 01/24/2023)--REBAR EXPOSED WITH MINOR SECTION LOSS (RICKEC, 01/15/2025)--GIRDER END SUPPORTS WITH HEAVY PACKRUST AND ADVANCE SECTION LOSS (RICKEC, 01/15/2025)--REBAR EXPOSED WITH ADVANCED SECTION LOSS
VERTICAL CRACKS	DIAPHRAGMS		FEW		
VERTICAL CRACKS	THROUGHOUT		FEW		

APPROACH SPANS-2	NON-COMPOSITE	37 FT 6 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	GIRDERS		FEW		
HAIR LINE CRACKING	GIRDERS		MANY		
REBAR EXPOSED	GIRDER ENDS		MINOR		
SPALLS	GIRDERS		LARGE		(VOYLEC1, 01/24/2023)--EXPOSED REBAT AT GIRDER ENDS GIRDER END SUPPORTS WITH MODERATE TO ADVANCED SECTION LOSS AND HEAVY PACK PACK RUST THROUGHOUT BENTS 2 AND 3

APPROACH SPANS-3	NON-COMPOSITE	38 FT 8 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	GIRDERS		FEW		
DETERIORATION	GIRDER ENDS		MINOR		
REBAR SECTION LOSS	GIRDER ENDS		MINOR		
SPALLS	GIRDERS		FEW		(VOYLEC1, 01/24/2023)--GIRDER ENDS MINOR DETERIORATION AT BENT 3 EXPOSED REBAR WITH MINOR SECTION LOSS

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MAIN SERIES-2 *SIMPLE SPAN* *STEEL* *WIDE FLANGE GIRDERS*

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
MAIN SPANS-4	NON-COMPOSITE	39 FT 5 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
OTHER	STIFFENERS		NOT APPLICABLE		(BLALOR1, 06/18/2014)--@ GIRDER 3 W/ 3 1/4" CRACK IN WELD HAS GROWN TO 4 1/2" (2014) (VOYLEC1, 01/24/2023)--MODERATE RUSTING TOP FLANGES AT GIRDER ENDS (RICKEC, 01/15/2025)--GIRDER 3 DIAPHRAM WELD GREW TO 5"
RUSTING	TOP FLANGE		HEAVY		
SECTION LOSS	BOTTOM FLANGE		HEAVY		(RICKEC, 01/15/2025)--OVER BEARINGS
SECTION LOSS	TOP FLANGE		MEDIUM		

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
MAIN SPANS-5	NON-COMPOSITE	60 FT 7 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
RUSTING	TOP FLANGE		HEAVY		
SECTION LOSS	AT BEARING		HEAVY		(MADSEJ, 03/02/2021)--BOTTOM FLANGES AT PIER 5. GIRDER 1 AT PIER 5 BOTTOM FLANGE HAS 50% SECTION LOSS. GIRDER 4 AT PIER 6 BOTTOM FLANGE HAS 50% SECTION LOSS (VOYLEC1, 01/24/2023)--MODERATE RUSTING TOP FLANGES AT GIRDER ENDS (RICKEC, 01/15/2025)--GIRDER 4 @ BENT 5 BOTTOM FLANGE WITH 50% SECTION LOSS AT BEARINGS
SECTION LOSS	BOTTOM FLANGE		ADVANCED		(RICKEC, 01/15/2025)--GIRDER 2 AT BENT 6 BOTTOM FLANGE WITH 75% SECTION LOSS

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
MAIN SPANS-6	NON-COMPOSITE	41 FT 7 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
SECTION LOSS	AT BEARING		ADVANCED		(MADSEJ, 03/02/2021)--GIRDER 5 BOTTOM FLANGE IS EXPERIENCING 75% SECTION LOSS. GIRDER 3 BOTTOM FLANGE HAS A 3" HOLE RUSTED THROUGH THE BOTTOM FLANGE. (RICKEC, 01/15/2025)--GIRDER 4 AT BENT 6 WITH 75% SECTION LOSS ABOVE BEARING

APPROACH SERIES-3 *SIMPLE SPAN* *REINFORCED CONCRETE* *DECK GIR*

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
APPROACH SPANS-7	NON-COMPOSITE	38 FT 8 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	GIRDERS		FEW		
OTHER	GIRDERS		NOT APPLICABLE		(BLALOR1, 06/18/2014)--SHIFTED 4" TO THE W. @ BT 7
SPALLS	ENDS		LARGE		(DANIEC, 06/23/2003)--GIRDER ENDS SPALLED WITH REBAR EXPOSED ON SOUTH SIDE.
SPALLS	GIRDERS		FEW		

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
APPROACH SPANS-8	NON-COMPOSITE	37 FT 6 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	GIRDERS		MODERATE		
SPALLS	ENDS		LARGE		(DANIEC, 06/23/2003)--GIRDER ENDS SPALLED WITH REBAR EXPOSED ON SOUTH SIDE.
SPALLS	GIRDERS		FEW		(VOYLEC1, 01/24/2023)--SEVERAL HIGH STEEL SPALLS GIRDER 1

SUBSTRUCTURE COMPONENTS

SUBSTRUCTURE	SKEW	LENGTH	MATERIAL	CONSTRUCTION	LABEL	COMMENTS
ABUTMENT-1	*LA-42 DEGREES*	*29 FT 0 IN*	*REINFORCED CONCRETE*	*OPEN CONCRETE*		

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE

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COUNTY: STODDARD **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 5246** **BRIDGE: J0092**

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
HORIZONTAL CRACKS	THROUGHOUT		FEW		
SPALLS	THROUGHOUT		FEW		
VERTICAL CRACKS	THROUGHOUT		FEW		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
FOOTING	REINFORCED CONCRETE	TIMBER PILE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
SPALLS	RANDOM		MINOR		
FIXED BEARING	STEEL	FLAT PLATE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
OTHER	THROUGHOUT		NOT APPLICABLE		(MADSEJ, 01/22/2019)--GIRDERS SLIDING OFF OF BEARING PLATE 6"
PACK RUST	THROUGHOUT		HEAVY		
SECTION LOSS	AT BEARING		ADVANCED		

BENT-2 *LA-42 DEGREES* *30 FT 7 IN* *REINFORCED CONCRETE* *MULTIPLE COLUMN*

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	**MATERIAL**	**CONSTRUCTION**			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	THROUGHOUT		FEW		
SPALLS	THROUGHOUT		SMALL		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
REBAR EXPOSED	RANDOM		FEW		
SPALLS	RANDOM		MINOR		
FOOTING	REINFORCED CONCRETE	TIMBER PILE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
FIXED BEARING	STEEL	FLAT PLATE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
PACK RUST	THROUGHOUT		HEAVY		
SECTION LOSS	THROUGHOUT		ADVANCED		

BENT-3 *LA-42 DEGREES* *30 FT 7 IN* *REINFORCED CONCRETE* *MULTIPLE COLUMN*

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	**MATERIAL**	**CONSTRUCTION**			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	THROUGHOUT		LARGE		
SPALLS	BOTTOM		SMALL		(RICKEC, 01/15/2025)--REBAR EXPOSED
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	THROUGHOUT		FEW		
SPALLS	RANDOM		MINOR		(POPAM1, 07/16/2012)--@ GDR 4 W/ REBAR EXP
VERTICAL CRACKS	RANDOM		FEW		
FOOTING	REINFORCED CONCRETE	TIMBER PILE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
FIXED BEARING	STEEL	FLAT PLATE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
PACK RUST	THROUGHOUT		HEAVY		

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	SECTION LOSS	THROUGHOUT		ADVANCED			

PIER-4 LA-42 DEGREES 35 FT 1 IN REINFORCED CONCRETE MULTIPLE COLUMN

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	**MATERIAL**	**CONSTRUCTION**			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	THROUGHOUT		FEW		
SEALED	TOP		ASPHALTICBASE		
SPALLS	THROUGHOUT		SMALL		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
EFFLORESCENCE	TOP	THROUGHOUT	LIGHT		
VERTICAL CRACKS	TOP	THROUGHOUT	FEW		
FOOTING	REINFORCED CONCRETE	TIMBER PILE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
WEB BEAM	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	RANDOM		SMALL		
SPALLS	RANDOM		SMALL		
VERTICAL CRACKS	THROUGHOUT		LARGE		
FIXED BEARING	STEEL	FLAT PLATE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
OTHER	THROUGHOUT		NOT APPLICABLE		(MADSEJ, 03/02/2021)--SPAN 3 BEARINGS MOVING UP TO 6" NORTH
PACK RUST	THROUGHOUT		HEAVY		(MADSEJ, 03/02/2021)--BEARINGS LIFTING UP TO 1"
SECTION LOSS	THROUGHOUT		ADVANCED		(RICKEC, 01/15/2025)--SPAN 3 GIRDERS 2 & 4 (PLACED BLOCKS)

BENT-5 LA-42 DEGREES 30 FT 6 IN REINFORCED CONCRETE PILE CAP BENT 4A

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	**MATERIAL**	**CONSTRUCTION**			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
DELAMINATION	THROUGHOUT		FEW		
SEALED	TOP		ASPHALTICBASE		
SPALLS	THROUGHOUT		SMALL		
CROSS BRACING	STEEL	ANGLE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
PACK RUST	RANDOM		MEDIUM		(RICKEC, 01/15/2025)--WELDS ARE BROKE IN MANY LOCATIONS SEVERAL BRACES ARE MISSING
PILING	STEEL	H-SHAPE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
SECTION LOSS	TOP		HEAVY		(RICKEC, 01/15/2025)--CENTER PILING EAST SIDE
SECTION LOSS	WATERLINE		ADVANCED		(MADSEJ, 03/02/2021)--WATER TOO HIGH TO SEE (2021)
FIXED BEARING	STEEL	FLAT PLATE			
CONDITION	**LOCATION 1**	**LOCATION 2**	**SEVERITY**	**MEASUREMENT**	**COMMENT**
RUSTING	THROUGHOUT		HEAVY		
SECTION LOSS	THROUGHOUT		ADVANCED		

BENT-6 LA-42 DEGREES 30 FT 6 IN REINFORCED CONCRETE PILE CAP BENT 4B

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	**MATERIAL**	**CONSTRUCTION**			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			

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CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	THROUGHOUT		FEW		
SEALED	BEAM CAP		HORSEYSET		(DANIEC, 06/23/2003)--BEAM CAP SEALED IN 2002.
SPALLS	THROUGHOUT		SMALL		

CROSS BRACING STEEL ANGLE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
PACK RUST	THROUGHOUT		MEDIUM		(RICKEC, 01/15/2025)--WELDS ARE BROKEN THROUGHT FEW BRACES ARE MISSING

PILING STEEL H-SHAPE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
PACK RUST	RANDOM		MEDIUM		(RICKEC, 01/15/2025)--AT CROSS BRACING AND UNDER BEAMCAP
SECTION LOSS	WATERLINE		ADVANCED		(MADSEJ, 03/02/2021)--WATER TOO HIGH TO SEE (2021)

FIXED BEARING STEEL FLAT PLATE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
RUSTING	THROUGHOUT		HEAVY		
SECTION LOSS	THROUGHOUT		HEAVY		

PIER-7 LA-42 DEGREES 35 FT 1 IN REINFORCED CONCRETE MULTIPLE COLUMN PIER 5

CONDITION / ASSOCIATED COMPONENT	LOCATION 1 / MATERIAL	LOCATION 2 / CONSTRUCTION	SEVERITY	MEASUREMENT	COMMENT
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
DELAMINATION	THROUGHOUT		FEW		
SEALED	THROUGHOUT		ASPHALTICBASE		
SPALLS	THROUGHOUT		SMALL		

COLUMN REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
SPALLS	COLUMN		SMALL		(PICKEJ1, 02/01/2023)--EXPOSED REBAR COLUMN 1 (RICKEC, 01/15/2025)--REBAR EXPOSED ON BOTH COLUMNS

FOOTING REINFORCED CONCRETE TIMBER PILE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

WEB BEAM REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
VERTICAL CRACKS	THROUGHOUT		LARGE		

DIAPHRAGM STEEL OTHER

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DIAGONAL CRACKS	RANDOM		FEW		

FIXED BEARING STEEL FLAT PLATE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DETERIORATION	BEAM SEAT		ADVANCED		(RICKEC, 01/15/2025)--MANY FLAT PLATE BEARINGS WITH ADVANCED SECTION LOSS. GIRDER 3 FLAT PLATE BEARING WITH SEVERE SECTION LOSS UP TO 80% BLOCKED UP UNDER GIRDER.
PACK RUST	THROUGHOUT		HEAVY		

BENT-8 LA-42 DEGREES 30 FT 7 IN REINFORCED CONCRETE MULTIPLE COLUMN BENT 6

CONDITION / ASSOCIATED COMPONENT	LOCATION 1 / MATERIAL	LOCATION 2 / CONSTRUCTION	SEVERITY	MEASUREMENT	COMMENT
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
DELAMINATION	THROUGHOUT		LARGE		

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SPALLS	THROUGHOUT		LARGE		(RICKEC, 01/15/2025)--BOTTOM OF BEAM CAP WITH LARGE SPALL AND ADVANCE SECTION LOSS OF REINFORCED STEEL
VERTICAL CRACKS	THROUGHOUT		FEW		

COLUMN REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
SPALLS	THROUGHOUT		SMALL		

FOOTING REINFORCED CONCRETE TIMBER PILE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

FIXED BEARING STEEL FLAT PLATE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
PACK RUST	THROUGHOUT		HEAVY		
SECTION LOSS	THROUGHOUT		ADVANCED		

ABUTMENT-9 LA-42 DEGREES 29 FT 0 IN REINFORCED CONCRETE OPEN CONCRETE ABUTMENT 7

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DELAMINATION	THROUGHOUT		FEW		
SPALLS	THROUGHOUT		LARGE		(RICKEC, 01/15/2025)--LARGE SPALL TOP OF BEAM CAP WITH ADVANCE SECTION LOSS OF REINFORCED STEEL.

COLUMN REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

FOOTING REINFORCED CONCRETE TIMBER PILE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

STRAIGHT WINGS REINFORCED CONCRETE CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

FIXED BEARING STEEL FLAT PLATE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
PACK RUST	THROUGHOUT		HEAVY		
SECTION LOSS	THROUGHOUT		ADVANCED		

OVER/UNDER ROUTES CLEARANCE INFORMATION

CLEARANCES OVER DECK

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

VERTICAL CLEARANCE TYPE**	VALUE	DIRECTION	DATE	COMMENT

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COUNTY: STODDARD **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 5246** **BRIDGE: J0092**

CLEARANCES UNDER BRIDGE

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

RECORD #	ROUTE	# LANES	DIRECTION OF TRAFFIC	RIGHT LATERAL CLEARANCE	LEFT LATERAL CLEARANCE	UR-ID

VERTICAL CLEARANCE TYPE**	VALUE	DIRECTION	DATE	COMMENT

STRUCTURE PAINT INFORMATION

CONDITION: FAIR **RUST AMOUNT :** 6=1.0% OF SURFACE RUSTED **STEEL TONS :** 67

ORIGINAL PAINT	CONTRACT REPAINT	DEPARTMENT REPAINT	
PAINT TYPE : 1 SYSTEM	**PAINT TYPE :**	**PAINT TYPE :**	**MANUFACTURE :**
NAME : CAL-ALUM SULPH/SYS C	**NAME :**	**NAME :**	**SURFACE PREP :**
PAINT COLOR : ALUMINUM	**PAINT COLOR :**	**PAINT COLOR :**	
PAINT YEAR : 1999	**PAINT YEAR :**	**PAINT YEAR :**	
MILS :	**MILS :**	**MILS :**	

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

RESPONSIBILITY	*LOCATION*	*ITEM*	*CATEGORY*	*PRIORITY*	*DATE*	*WORK ITEM COMMENT*
DISTRICT ROUTINE	APPROACH ROADWAY	SEAL JOINTS - HOT POUR	APPROACH	3	01/09/2019	(WEAVER1, 01/24/2018)--SEAL ALL JOINTS ON BRIDGE. REWELD CROSS BRACING @ BNTS 5 & 6
FURTHER ACTION REQUIRED	PIER CAP	BLOCKUP GIRDER	SUPERSTRUCTURE	2	01/15/2025	
FURTHER ACTION REQUIRED	BENT	REPLACE CROSS BRACING	SUBSTRUCTURE	2	01/15/2025	

UTILITY ATTACHMENTS

UTILITY	*OWNER*	*METHOD*	*MEASUREMENT TYPE*	*VALUE*	*NUMBER*	*UTILITY ATTACHMENT COMMENT*

PROGRAM NOTES INFORMATION

YEAR	PROJECT #	MONTH LET	YEAR LET	ITEMS	COMMENT
2027	SE0118	1	2027	REPLACE BRIDGE	

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COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

Rated Item	Rating	Rating Date
[Item 67] Structure Evaluation Rating:	3-BASICALLY INTOL CORRECT	1/17/2025
[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	6/5/2002
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001
Sufficiency Rating:	12.2%	1/17/2025
Deficiency:	STRUCTURAL	10/31/2012
Funding Eligibility:	FULL	----
Estimated New Structure Length:	361 FT.	----
Estimated Structure Cost:	$2,093,439	----
Estimated Total Project Cost:	$3,140,159	----
Year of Cost Estimate:	2025	----

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.

ADVANCED SIGN INFORMATION

SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION
1			

OUTFALL INSPECTION INFORMATION

 # OUTFALLS: **INSPECTOR:**

STATUS: **DATE:**

NOTES:

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

January 24, 2025
1:42:06pm

COUNTY : STODDARD **BRIDGE :** J0092 4 **REVIEW STATUS :** APPROVED **NBI STATUS :** T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 1/17/2025 **SUBMITTAL YEAR :** 2024

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SE
3	County	STODDARD
8	Federal ID No.	5246
27	Year Built	1929
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	MO
5C	Designated Level of Service	MAINLINE
5D	Route Number	00051
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	MO 51 S
12	Base Hwy. Network	NO
13A	LRS Inventory Route No.	
13B	Subroute No.	
20	Toll Status	ON FREE ROAD
26	Functional Classification	07-RURAL MAJOR COLLECTOR
28A	Lanes on Structure	02
100	STRAHNET Designation	RTE NOT A DEFENSE HWY
104	National Highway System	NOT ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	NO

STRUCTURE LOCATION INFORMATION

4	Place	FISK CITY
	Code	24328
9	Location	S 28 T 25 N R 8 E
11	Milepoint	96.65 miles
16	Latitude	36 D 46 M 49 S
17	Longitude	90 D 12 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	1291
30	AADT Year	2023
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	13%
114	Future AADT	1807
115	Future AADT Year	2043

UNDERRECORD INFORMATION

6	Features Intersected	ST FRANCIS RVR
42B	Type of Service Under	WATERWAY
28B	Lanes Under Structure	00
54A	Vert. Clearance Ref.	N/A
54B	Vert. Clearance	0 Ft. 0 In.
55A	Rt. Lat Clear Ref.	N/A
55B	Rt. Lat Clearance	0 Ft. 0 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	40.00 miles
32	Approach Roadway Width	23 Ft. 11 In.
34	Skew	42.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	20 Ft. 12 In.
48	Maximum Span Length	60 Ft. 8 In.
49	Structure Length	331 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
51	Curb to Curb Br. Width	20 Ft. 12 In.
52	Deck Width (Out-Out)	20 Ft. 12 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

Design_No = j0092 and End_Date = 1/24/2025 and Start_Date = 1/25/2024

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LOAD RATING AND POSTING INFORMATION

31	Design Load	H 15
41	Structure Status	OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	LOAD FACTOR
64	Operating Rating	44 Tons.
65	Inventory Rating Meth	LOAD FACTOR
66	Inventory Rating	26 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	12.2 Percent
	Deficiency Rating	STRUCTURAL
	Funding Eligibility	FULL
75A	Proposed Work	REPLACEMENT SUBSTND LOAD
75B	Work Done By	Contract
76	New Struc Length	360 Ft. 11 In.
94	Struc Improve Cost	$ 2,093,000
95	Roadway Improve Cost	$ 209,000
96	Total Project Cost	$ 3,140,000
97	Year of Cost Estimates	2025

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	3
68	Deck Geometry App. Rating	2
69	Underclearance App. Rating	N
71	Waterway Adeq. App. Rating	8
72	Approach Road App. Rating	6
113	Scour Assess App. Rating	8

APPROVED POSTING INFORMATION

Approved Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	STEEL
43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
45	# of Main Spans	3
44A	Appr Struc. Mat type	CONCRETE
44B	Appr Struc. Cnstr. type	TEE BEAM
46	# of Approach Span	5
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	6 BITUMINOUS
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	3
60	Substructure Cond. Rating	4
61	Channel /Channel Protection Cond. Rating	6
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	1 / 25		
91	Gen. Insp. Frequency	24	Months	
92A	Frac. Critical Inspection	N	Months	
93A	Frac. Critical Insp. Date			
92B	Underwater Inspection	Y	Months	60
93B	Underwater Insp. Date	6 / 22		
92C	Special Inspection	N	Months	
93C	Special Inspection Date			

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

Design_No = j0092 and End_Date = 1/24/2025 and Start_Date = 1/25/2024

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