THE CITY OF ANN ARBOR
PARKS & RECREATION SERVICES
2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS
FEBRUARY 2022
RFP NO. 22-18

BANDEMER PARK PEDESTRIAN AND VEHICLE STRUCTURES OVER HURON RIVER

NOTES:
The proposed improvements are based on the 17th Edition of AASHTO Standard Specifications for Highway Bridges.

Except where otherwise indicated on these plans or in the contract documents, all materials and workmanship shall be performed according to the City of Ann Arbor's Public Services Department Standard Specifications and the Michigan Department of Transportation Standard Specifications for Construction 2020 Edition. All work under this contract that is not included in the City or MDOT Standard Specifications shall be performed in accordance with the detailed specifications included in the contract documents.

In case of discrepancy, the City of Ann Arbor Public Services Department Standard Specifications for Construction shall govern over the Michigan Department of Transportation Standard Specifications for Construction.

The design of the structural members is based on material of the following grades and stresses:

- Structural Steel:
  - AASHTO M270
  - Grade 50 and 50W
- Structural Steel Tubing (HSS):
  - ASTM A36
  - Fy = 50,000psi

The Proposed Improvements are based on the 17th Edition of AASHTO Standard Specifications for Highway Bridges.
### GENERAL NOTES

**UTILITIES**

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with MCL 460.771, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7777 or via the web at either select.missd.org for single address or re.missd.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

### OLD PLANS

OLD ROAD PLANS

The following old road plans were referred to in the design of this project:

- 34463 Bandemer Pedestrian Continental Plan
- 94464 Bandemer Vehicular Continental Plan

These plans may be obtained by contacting Hillary Hanzel at (734) 794-6230, ext. 42546.

### EARTHWORK

**EARTH DISTURBANCE LIMITS**

Contractor shall remedy any disturbance to any construction staging area, material storage locations, work areas, and the like with topsoil, seed, and mulch as approved by the Engineer. Any erosion or depressions caused by the work. Depending upon the level of disturbance caused by the work, the Contractor may elect to leave the existing topsoil friable by scarifying and raking, and re-seeded with approved seeding mixtures, and place mulch as needed to re-establish the disturbed turf areas. This work should not be paid for separately, but shall be included in the item of work "General Conditions, Max. $65,000."

**SOIL EROSION MEASURES**

Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. The Engineer will determine the precise Soil Erosion and Sedimentation Control measures to employ on this project. It is the responsibility of the Contractor to prevent and remedy any erosion, siltation, or slope disturbances by providing appropriate control measures. This work shall not be paid for separately, but shall be included in the item of work "General Conditions, Max. $65,000."

**TREE AND BRUSH CLEARING**

If the Contractor determines that tree and/or brush removal is required adjacent to any structure to provide access or complete the work of this project, they shall contact Hillary Hanzel at (734) 794-6230, ext. 42546, and provide the location(s) and extent of clearing requested. The Owner will review the locations and extent of the requested removal(s) and will complete the removal(s) to the extent determined feasible and acceptable to the Owner. Allow three (3) working days after request for the Owner to complete clearing at any one structure.

### NOTES APPLYING TO MDOT STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the MDOT standard plan given below opposite each item unless otherwise indicated.

<table>
<thead>
<tr>
<th>Title</th>
<th>Plan No.</th>
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<tbody>
<tr>
<td>ROAD</td>
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<tr>
<td>Soil Erosion &amp; Sedimentation Control Measures</td>
<td>R-46E</td>
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<tr>
<td>Seeding and Tree Planting</td>
<td>R-103-H</td>
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<tr>
<td>WORK ZONE DEVICES</td>
<td></td>
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<tr>
<td>Ground Drive Sign Supports for Temp Signs</td>
<td>W23-128-4</td>
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<tr>
<td>Temporary Traffic Control Devices</td>
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*Denotes Special Detail

### RFP 22-18

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<tr>
<th>Category 0000 – General Conditions</th>
<th>Unit</th>
<th>Quantity</th>
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<td>Certified Payroll Compliance and Reporting</td>
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<td>Ea</td>
<td>7</td>
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<td>Fencing, Protective</td>
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### RFP 22-18

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<tr>
<td>Structural Steel, Mixed, Erect (Deck Connections)</td>
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<td>1875</td>
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<tr>
<td>Structural Steel, Mixed, Erect (Stringers)</td>
<td>Lb</td>
<td>4372</td>
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<tr>
<td>Structural Steel, Mixed, Fum and Fab (Backup Rails)</td>
<td>Lb</td>
<td>881</td>
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<tr>
<td>Structural Steel, Mixed, Fum and Fab (Deck Connections)</td>
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<td>1876</td>
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<tr>
<td>Structural Steel, Mixed, Fum and Fab (Stringers)</td>
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<td>4372</td>
</tr>
<tr>
<td>Composite Railing, 2 inch by 8 inch</td>
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<td>Timber Decking, 3 inch by 12 inch</td>
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<td>Steel Structure, Coating, Partial, Special (Bandemer Ped)</td>
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<td>Guardrail, Type B, Modified</td>
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<tr>
<td>False Decking</td>
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2022 BANDEMER PARK BRIDGE REPAIRS
AND RENOVATIONS

BANDEMER PARK PEDESTRIAN AND VEHICLE STRUCTURES
GENERAL PLAN OF SITE

NOTES:

1. THE STRUCTURES ARE LOCATED IN BANDEMER PARK, WHICH IS SOUTH OF THE BARTON DRIVE EXIT FROM SB M-14/US-23 BUSINESS. THE INTERSECTION OF BARTON DRIVE/BARTON SHORE DRIVE/WHITE RIVER LAKE ROAD IS LOCATED 0.1 MILES NORTH OF THE STRUCTURE. THE ENTRANCE TO THE PARK IS LOCATED ON BARTON DRIVE, APPROXIMATELY 0.1 MILES WEST OF M-14/US-23 BUSINESS. THE PEDESTRIAN STRUCTURE AND VEHICLE STRUCTURE ARE ADJACENT TO EACH OTHER.

2. THE EXISTING STRUCTURES ARE SINGLE-Span WEATHERING STEEL TRUSS SUPERSTRUCTURES. 110'-6" IN LENGTH, WITH CONCRETE ABUTMENTS. THE PEDESTRIAN STRUCTURE IS DESIGNED FOR 30 PSF UNIFORM LIVE LOADING OR ONE 5,000 LB VEHICLE. THE CLEAR WIDTH IS 9'-6". THE VEHICLE STRUCTURE IS DESIGNED FOR HS-20 VEHICLE LOAD. THE CLEAR ROADWAY WIDTH IS 12'-0".

3. THE WORK FOR THE PEDESTRIAN STRUCTURE CONSISTS OF: REMOVAL OF THE EXISTING WOOD DECKING; REMOVAL OF PORTIONS OF THE EXISTING STRINGERS; CLEANING AND COATING THE EXISTING FLOOR BEAMS; REMOVAL OF THE EXISTING WOOD HAND RAILS; REMOVAL OF EXISTING PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES; PLACEMENT OF GALVANIZED STRINGERS; PLACEMENT OF COMPOSITE HANDRAILS AND PLACEMENT OF PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES.

4. THE WORK FOR THE VEHICLE STRUCTURE CONSISTS OF: REMOVAL OF THE EXISTING WOOD DECKING; REMOVAL OF PORTIONS OF THE EXISTING STRINGERS; END STOPS AND JOINT COVER PLATE; CLEANING AND COATING THE EXISTING FLOOR BEAMS; REMOVAL OF THE EXISTING WOOD HAND RAILS; REMOVAL OF THE EXISTING STRINGERS AND BACKUP RAILS; REMOVAL OF EXISTING PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES; PLACEMENT OF WOOD DECKING; REMOVAL OF GALVANIZED STRINGERS; END STOPS AND JOINT COVER PLATES; PLACEMENT OF GUARDRAILS AND BACKUP RAILS; PLCACEMENT OF COMPOSITE HANDRAILS; AND PLACEMENT OF PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES.

5. THE BANDEMER PARK PEDESTRIAN AND VEHICLE STRUCTURES SHALL BE CLOSED TO TRAFFIC DURING CONSTRUCTION.

6. THE CONTRACTOR MAY USE AN AREA OF THE PAVED SURFACE PARKING LOT IMMEDIATELY NORTH OF THE STRUCTURES FOR EQUIPMENT, MATERIAL STORAGE, AND EMPLOYEE PARKING. THE AREA USED SHALL NOT EXCEED 100 FEET IN LENGTH ALONG THE ROADWAY BY APPROXIMATELY 10 FEET. THE USE OF ANY TRAILS OR GRASS AREAS FOR THESE PURPOSES IS STRICTLY FORBIDDEN. THE CONTRACTOR SHALL NOT BLOCK THE USE OF ANY TRAIL WITHIN THE PARK, EXCEPT FOR THE STRUCTURE PORCH.

7. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED WORK.

8. THE ESTIMATED AREA OF STRUCTURAL STEEL TO BE CLEANED AND COATED ON THE PEDESTRIAN STRUCTURE IS 345. SFT. THE ESTIMATED AREA OF STRUCTURAL STEEL TO BE CLEANED AND COATED ON THE VEHICLE STRUCTURE IS 1020. SFT. THIS INCLUDES THE FLOOR BEAMS OF THE TRUSS SUPERSTRUCTURES.

9. THE CONTRACTOR SHALL Field VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED WORK.

10. MEASURES SHALL BE TAKEN TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, IT SHALL BE REMOVED IMMEDIATELY. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF, THE PREVENTIVE MEASURES MUST BE EFFECTIVE.

11. THE CONTRACTOR SHALL ERECT FALSE DECKING PRIOR TO REMOVING PORTIONS OF THE STRUCTURE. FALSE DECKING UNITS SHALL BE FROM TRUSS TO TRUSS FOR THE FULL LENGTH OF THE BRIDGE.

2. LOCATE ALL ACTIVE UTILITIES PRIOR TO STARTING WORK AND CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT SUCH UTILITIES NOT REQUIRED DURING WORK WILL NOT BE DISTURBED.

TRAFFIC CONTROL NOTES:

PLACE THREE (3) TYPE B BARRICADES ON BANDEMER PARK ROADWAY AND PEDESTRIAN PATH WITH ONE (1) "BRIDGE CLOSED" (R11-2) SIGN ON SEPARATE SUPPORTS. ONE (1) SET OF BARRICADES SHALL BE PLACED AT BARTON DRIVE (PARK ENTRANCE) AND ONE (1) SET SOUTH OF STRUCTURE ACROSS THE BANDEMER PARK ROADWAY AND PATH. PLACE ONE (1) TYPE B BARRICADE ACROSS GRAVEL PATH TO DETER ILLEGAL CROSSING BARTON DRIVE (PARK ENTRANCE) AND ONE (1) SET SOUTH OF STRUCTURE ACROSS THE BANDEMER PARK ROADWAY AND PATH. PLACE "BRIDGE CLOSED" (R11-2) SIGN, ON SEPARATE SUPPORTS. ONE (1) SET OF BARRICADES SHALL BE PLACED AT BARTON DRIVE (PARK ENTRANCE) AND ONE (1) SET SOUTH OF STRUCTURE ACROSS THE BANDEMER PARK ROADWAY AND PATH. PLACE THREE (3) TYPE III BARRICADES ON BANDEMER PARK ROADWAY AND PEDESTRIAN PATH WITH ONE (1) "BRIDGE CLOSED" (R11-2) SIGN, ON SEPARATE SUPPORTS. ONE (1) SET OF BARRICADES SHALL BE PLACED AT BARTON DRIVE (PARK ENTRANCE) AND ONE (1) SET SOUTH OF STRUCTURE ACROSS THE BANDEMER PARK ROADWAY AND PATH.

PLACE "BRIDGE CLOSED" (R11-2) SIGN AND "TRAIL CLOSED - 1/2 MILE AHEAD" (SF-2) SIGN WHEN THE DEPARTMENT OF TRANSPORTATION ROADWAY AND PATH IS CLOSED DURING CONSTRUCTION.

PLACE "BRIDGE CLOSED" (R11-2) SIGN AND "TRAIL CLOSED - 1/2 MILE AHEAD" (SF-2) SIGN WHEN THE STRUCTURES ARE CLOSED FOR CONSTRUCTION.

ESTIMATED QUANTITIES OF TRAFFIC CONTROL DEVICES FOR BANDEMER PARK STRUCTURES:

<table>
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<tr>
<th>PAY ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>SIGN, TYPE B, TEMP, PRISMATIC, FURN</td>
<td>SFT</td>
<td>10</td>
</tr>
<tr>
<td>SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN</td>
<td>SFT</td>
<td>14</td>
</tr>
<tr>
<td>SIGN, TYPE B, TEMP, PRISMATIC, OPER</td>
<td>SFT</td>
<td>14</td>
</tr>
<tr>
<td>BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, FURN</td>
<td>EACH</td>
<td>1</td>
</tr>
<tr>
<td>FENCE, PROTECTIVE</td>
<td>FT</td>
<td>200</td>
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</tbody>
</table>

LEGEND

PLACEMENT OF PROPOSED WORK.
PLACEMENT OF WOOD DECKING; PLACEMENT OF GALVANIZED STRINGERS; END STOPS AND JOINT COVER PLATES; PLACEMENT OF GUARDRAILS AND BACKUP RAILS; PLACEMENT OF COMPOSITE HANDRAILS; AND PLACEMENT OF PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED WORK.

THE CONTRACTOR SHALL ERECT FALSE DECKING PRIOR TO REMOVING PORTIONS OF THE STRUCTURE. FALSE DECKING UNITS SHALL BE FROM TRUSS TO TRUSS FOR THE FULL LENGTH OF THE BRIDGE.

LOCATE ALL ACTIVE UTILITIES PRIOR TO STARTING WORK AND CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT SUCH UTILITIES NOT REQUIRED DURING WORK WILL NOT BE DISTURBED.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED WORK.

THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO AVOID OVERSPRAY ON ADJACENT SUBSTRUCTURE AND SUPERSTRUCTURE CONCRETE SURFACES AND ON ADJACENT STEEL AREAS NOT TO BE CLEANED AND COATED. INCLUDED IN THE BID ITEM "STRUCTURE, COATING, PARTIAL, SPECIAL (BANDEMER PEDESTRIAN)" AND "STRUCTURE, COATING, PARTIAL, SPECIAL (BANDEMER VEHICLE)".

MEASURES SHALL BE TAKEN TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, IT SHALL BE REMOVED IMMEDIATELY. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF, THE PREVENTIVE MEASURES MUST BE EFFECTIVE.

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LOCATE ALL ACTIVE UTILITIES PRIOR TO STARTING WORK AND CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT SUCH UTILITIES NOT REQUIRED DURING WORK WILL NOT BE DISTURBED.
EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN

EXISTING STRUCTURE SECTION

EXISTING WOOD DECKING TO REMAIN

EXISTING COVER PLATE TO REMAIN

EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN

SCALE: 1/8"=1'-0"

EXISTING TRUSS STRUCTURE TO REMAIN (TYP)

EXISTING HSS 10"x4" FLOOR BEAM TO REMAIN (TYP OF 14)

EXISTING HSS 10"x6" END FLOOR BEAMS TO REMAIN (TYP EACH END)

EXISTING WOOD DECKING TO BE REMOVED

EXISTING TRUSS STRUCTURE TO REMAIN (TYP)

EXISTING TIMBER HANDRAIL TO REMAIN (TYP)

EXISTING TIMBER HANDRAIL AT NW AND SW QUADRANTS (APPROX 27' LONG EACH LOCATION) (TYP)

EXISTING TIMBER STRINGERS, EXCEPT FOR PORTION OF BOTTOM FLANGE WELDED TO FLOOR BEAM (TYP)

EXISTING TIMBER STRINGERS, EXCEPT FOR PORTION OF BOTTOM FLANGE WELDED TO FLOOR BEAM (TYP)

EXISTING TS 4"x4" RAILS AND GUARDRAIL IN NW AND SW QUADRANTS (TYP)

EXISTING COVER PLATE TO REMAIN

EXISTING BOTTOM STRINGER AND COVER PLATE TO REMAIN

EXISTING BOTTOM STRINGER AND COVER PLATE TO REMAIN

EXISTING COVER PLATE TO REMAIN

EXISTING WOOD DECKING TO REMAIN

EXISTING WOOD DECKING TO BE REMOVED

EXISTING TRUSS STRUCTURE TO REMAIN (TYP)

EXISTING HSS 10"x4" END FLOOR BEAM TO REMAIN (TYP)

EXISTING TIMBER HANDRAIL AT NW AND SW QUADRANTS (APPROX 27' LONG EACH LOCATION) (TYP)

EXISTING TIMBER STRINGERS, EXCEPT FOR PORTION OF BOTTOM FLANGE WELDED TO FLOOR BEAM (TYP)

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THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS
BANDEMER PARK PEDESTRIAN STRUCTURE
BRIDGE RENOVATION DETAILS

THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS
BANDEMER PARK PEDESTRIAN STRUCTURE
BRIDGE RENOVATION DETAILS

REPLACE EXISTING HANDRAIL WITH 2"x4" COMPOSITE MATERIAL HAND RAIL AT NW AND SW QUADRANTS (APPROX. 20'-0" LONG EACH LOCATION), CONNECT TO EXISTING ANGLE (2), GALV. 3/8" DIA BOLTS, WASHERS AND NUTS AT EACH CONNECTION LOCATION (SEE DETAILED SPECIFICATION FOR TIMBER DECKING AND COMPOSITE HANDRAIL) (TYP)
EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN

EXISTING TRUSS STRUCTURE TO REMAIN (TYP)

EXISTING FLOOR BEAM TO REMAIN (TYP)

EXISTING DECK STOP TO BE REMOVED

EXISTING W 16"x36" FLOOR BEAM TO REMAIN (TYP)

EXISTING WOOD DECKING, FULL LENGTH OF TRUSS

EXISTING TRUSS STRUCTURE TO REMAIN (TYP)

COVER PLATE TO BE REMOVED

EXISTING DECK STOP TO BE REMOVED

EXISTING WOOD DECKING

REMOVE EXISTING HSS 4"x4" RAILS AND GUARDRAIL - BOTH SIDES OF STRUCTURE (TYP)

REMOVE EXISTING HSS STRINGERS, EXCEPT FOR PORTION OF BOTTOM FLANGE WELDED TO FLOOR BEAM (TYP)

EXISTING W 16"x36" FLOOR BEAM TO REMAIN (TYP)

EXISTING WOOD DECKING TO BE REMOVED

ABUTMENT BACKWALL TO REMAIN

EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN

SCALE: 1/8"=1'-0"

EXISTING STRUCTURE SECTION

SCALE: 1/2"=1'-0"

PARTIAL STRINGER REMOVAL SECTION

SCALE: 1"=1'-0"

PARTIAL STRINGER REMOVAL DETAIL

SCALE: 1"=1'-0"