

THE CITY OF ANN ARBOR

PARKS & RECREATION SERVICES 2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS

FEBRUARY 2022 RFP NO. 22-18

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THESE PERMIT FEES.	
PERMIT	ISSUING AUTHORITY
GRADING/ SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT
BUILDING PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT

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 MDT STANDARD SPECIFICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.

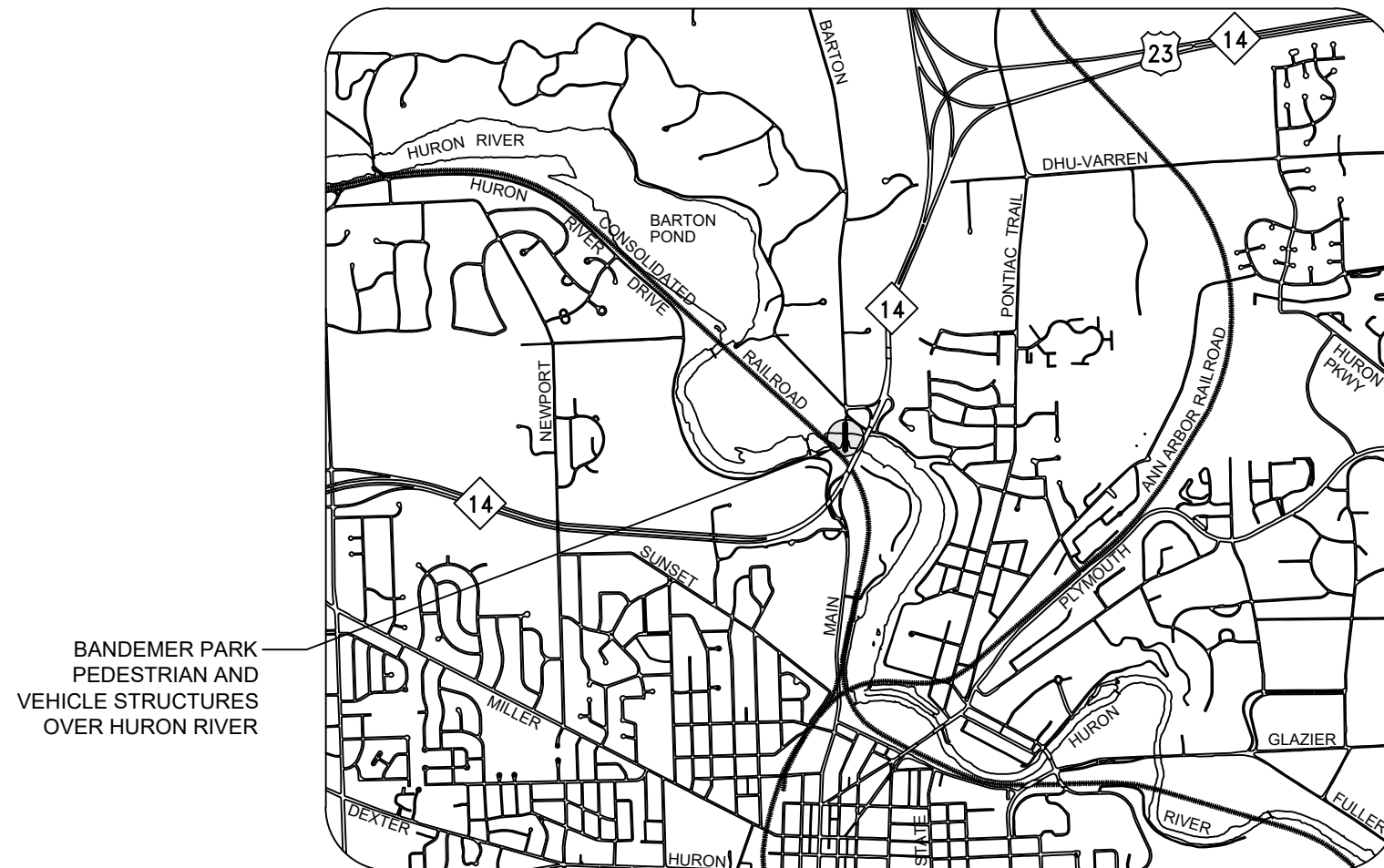
IN CASE OF DISCREPANCY, THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL GOVERN OVER THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

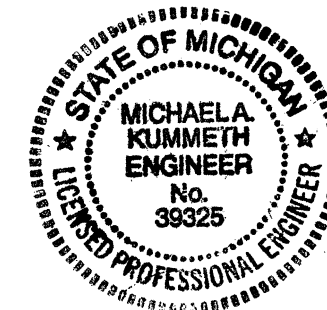
STRUCTURAL STEEL:	
AASHTO M270	
GRADE 50 AND 50W	Fy = 50,000 psi
STRUCTURAL STEEL TUBING (HSS):	
ASTM A847	Fy = 50,000 psi

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTE AND QUANTITY SHEET
3	BANDEMER PARK GENERAL PLAN OF STRUCTURE
4-5	BANDEMER PARK PEDESTRIAN STRUCTURE
6-7	BANDEMER PARK VEHICLE STRUCTURE



BANDEMER PARK
PEDESTRIAN AND
VEHICLE STRUCTURES
OVER HURON RIVER



3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
800-482-7171
(TOLL FREE)

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.



Michael A. Kummeth 2-22-2022
MICHAEL A. KUMMETH, P.E., MICHIGAN NO. 39325 DATE
DLZ

DRAWING NO.
SHEET 1 OF 7

GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with MCL 460.171 et seq, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.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.

- 94453 Bandemer Pedestrian Continental Plans
- 94454 Bandemer Vehicular Continental Plans

These plans may be obtained by contacting Hillary Hanzel at (734) 794-6230, ext. 42548.

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. The Contractor shall fill in any ruts or depressions caused by the work. Depending upon the level of disturbance caused by the work, the Contractor may elect to make the existing topsoil friable by scarifying and raking, and re-seed with approved seeding mixtures, and place mulch as needed to re-establish the disturbed turf areas. This work shall 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 not 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. 42548, 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.

Title	Plan No.
ROAD	
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-H
WORK ZONE DEVICES	
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A*
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E*

*Denotes Special Detail

RFP 22-18

Category 0000 – General Conditions

	Unit	Quantity
_General Conditions, Max, \$65,000	LSUM	1
_Certified Payroll Compliance and Reporting	LSUM	1
Barricade, Type III, High Intensity, Lighted, Furn	Ea	7
Barricade, Type III, High Intensity, Lighted, Oper	Ea	7
Sign, Type B, Temp, Prismatic, Furn	Sft	30
Sign, Type B, Temp, Prismatic, Oper	Sft	30
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	14
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	14
Fence, Protective	Ft	300

RFP 22-18

Category 0001 – Bandemer Park Pedestrian Structure

	Unit	Quantity
_Structures, Rem Portions, Special (Bandemer Ped)	LSUM	1
_Structural Steel, Mixed, Erect (Backup Rails)	Lb	881
_Structural Steel, Mixed, Erect (Deck Connections)	Lb	1875
_Structural Steel, Mixed, Erect (Stringers)	Lb	4372
_Structural Steel, Mixed, Furn and Fab (Backup Rails)	Lb	881
_Structural Steel, Mixed, Furn and Fab (Deck Connections)	Lb	1875
_Structural Steel, Mixed, Furn and Fab (Stringers)	Lb	4372
_Composite Railing, 2 inch by 8 inch	Ft	292
_Timber Decking, 3 inch by 12 inch	Sft	1040
_Steel Structure, Coating, Partial, Special (Bandemer Ped)	LSUM	1
_Steel Structure, Cleaning, Partial, Special (Bandemer Ped)	LSUM	1
_Guardrail, Type B, Modified	Ft	54
False Decking	Sft	1160

RFP 22-18

Category 0002 – Bandemer Park Vehicle Structure

	Unit	Quantity
_Structures, Rem Portions, Special (Bandemer Veh)	LSUM	1
_Structural Steel, Mixed, Erect (Backup Rails)	Lb	4874
_Structural Steel, Mixed, Erect (Deck Connections)	Lb	2617
_Structural Steel, Mixed, Erect (Deck Stop)	Lb	412
_Structural Steel, Mixed, Erect (Stringers)	Lb	12968
_Structural Steel, Mixed, Furn and Fab (Backup Rails)	Lb	4874
_Structural Steel, Mixed, Furn and Fab (Deck Connections)	Lb	2617
_Structural Steel, Mixed, Furn and Fab (Deck Stop)	Lb	412
_Structural Steel, Mixed, Furn and Fab (Stringers)	Lb	12968
_Timber Decking, 4 inch by 12 inch	Sft	1550
_Composite Railing, 2 inch by 8 inch	Ft	300
_Steel Structure, Cleaning, Partial, Special (Bandemer Veh)	LSUM	1
_Steel Structure, Coating, Partial, Special (Bandemer Veh)	LSUM	1
_Guardrail, Type B, Modified	Ft	292
False Decking	Sft	1710



THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS

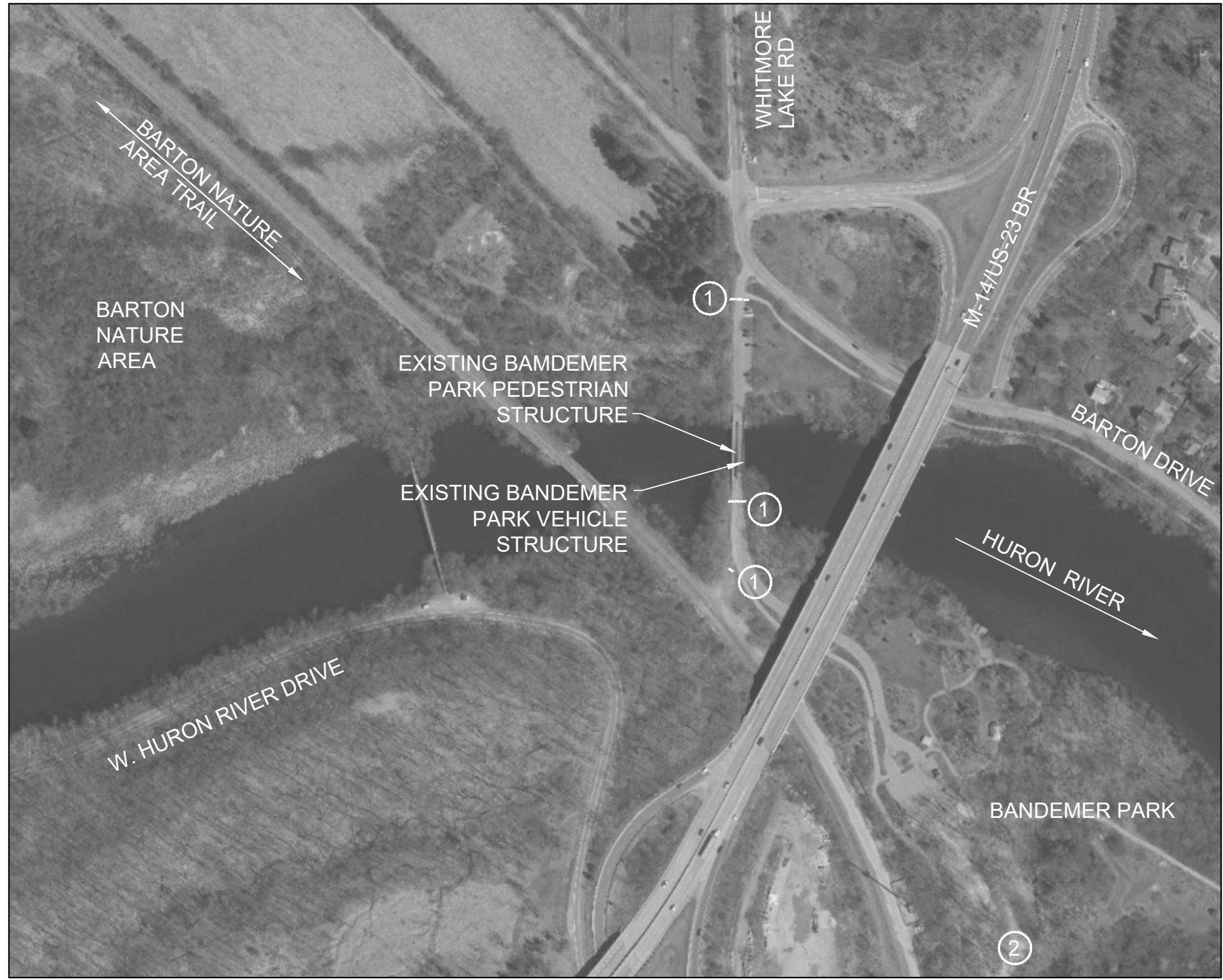
NOTE AND QUANTITY SHEET

SCALE
NONE

DRAWING NO.

SHEET NO. 2 OF 7

REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
	ORIGINAL ISSUE	02/18/22	DAF	CLH



PLAN OF BANDEMER PARK PEDESTRIAN AND VEHICLE STRUCTURES
NO SCALE



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/WHITMORE LAKE ROAD IS LOCATED 0.10 MILES NORTH OF THE STRUCTURE. THE ENTRANCE TO THE PARK IS LOCATED ON BARTON DRIVE, APPROXIMATELY 0.10 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, 118'-6" IN LENGTH, WITH CONCRETE ABUTMENTS. THE PEDESTRIAN STRUCTURE IS DESIGNED FOR 85 PSF UNIFORM LIVE LOADING OR ONE 9,000 LB VEHICLE. THE CLEAR WIDTH IS 8'-0". 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 WOOD DECKING; 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 GUARDRAILS AND BACKUP RAILS; REMOVAL OF EXISTING PLANK HOLD DOWN ANGLES AND PLANK SUPPORT ANGLES; 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.
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 NORTH END 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 15 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 PORTION.
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 340 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 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 "STEEL STRUCTURE, COATING, PARTIAL, SPECIAL (BANDEMER PED)" AND "STEEL STRUCTURE, COATING, PARTIAL, SPECIAL (BANDEMER VEH).")
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 LIMITS SHALL BE FROM TRUSS TO TRUSS FOR THE FULL LENGTH OF THE BRIDGE.
12. LOCATE ALL ACTIVE UTILITIES PRIOR TO STARTING WORK AND CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

LEGEND

TRAFFIC CONTROL NOTES:

①

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 ONE (1) TYPE III BARRICADE ACROSS GRAVEL PATH TO DETER ILLEGAL CROSSING OF RAILROAD TRACKS. PLACE PROTECTIVE FENCING AROUND PROJECT SITE IN ACCORDANCE WITH THE DETAILED SPECIFICATION FOR MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCING.

②

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

ESTIMATED QUANTITIES OF TRAFFIC CONTROL DEVICES FOR BANDEMER PARK STRUCTURES:

PAY ITEM	UNIT	QUANTITY
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, FURN	EACH	7
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, OPER	EACH	7
SIGN, TYPE B, TEMP, PRISMATIC, FURN	SFT	30
SIGN, TYPE B, TEMP, PRISMATIC, OPER	SFT	30
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	SFT	14
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	SFT	14
FENCE, PROTECTIVE	FT	300

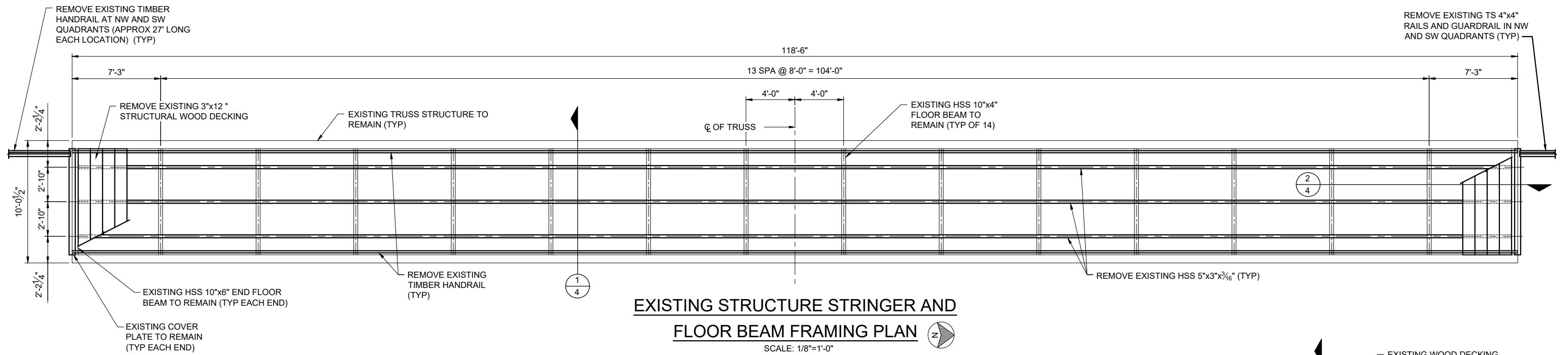


THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

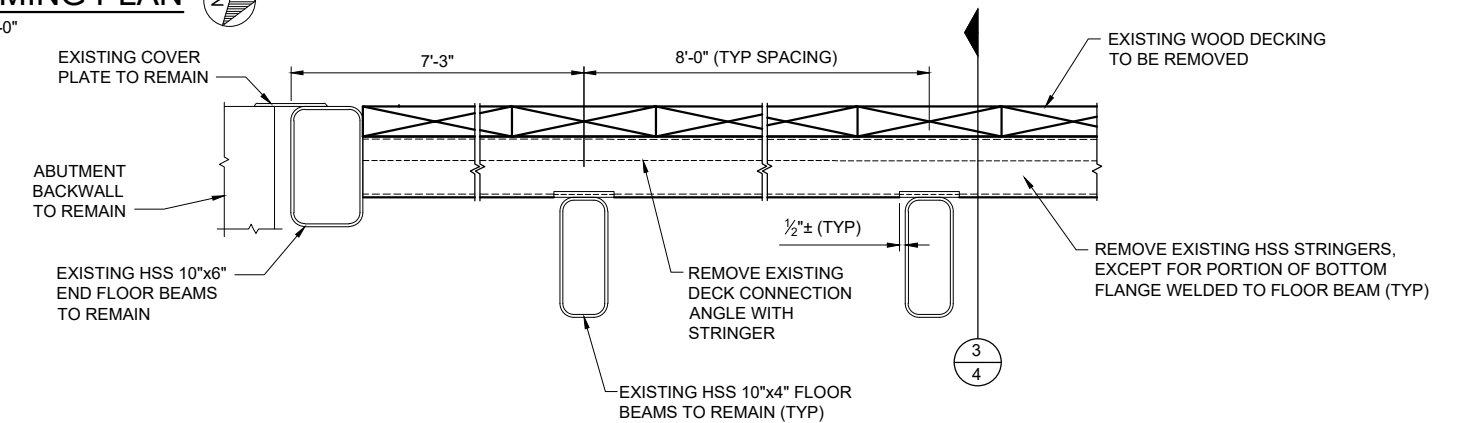
2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS
BANDEMER PARK PEDESTRIAN AND VEHICLE STRUCTURES
GENERAL PLAN OF SITE

SCALE	NONE
DRAWING NO.	
SHEET NO.	3 OF 7

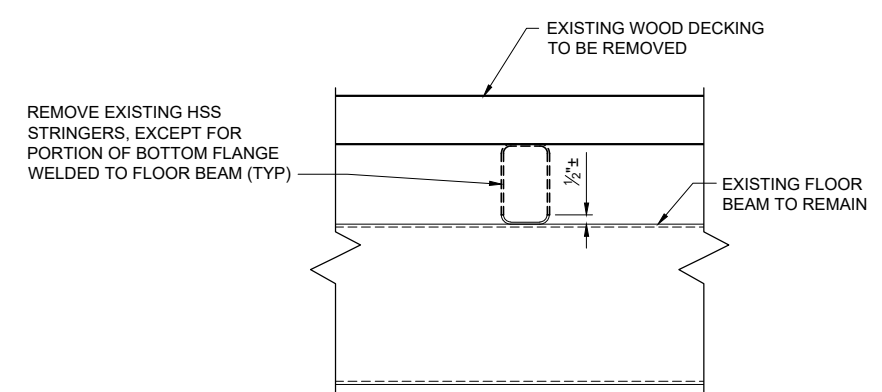
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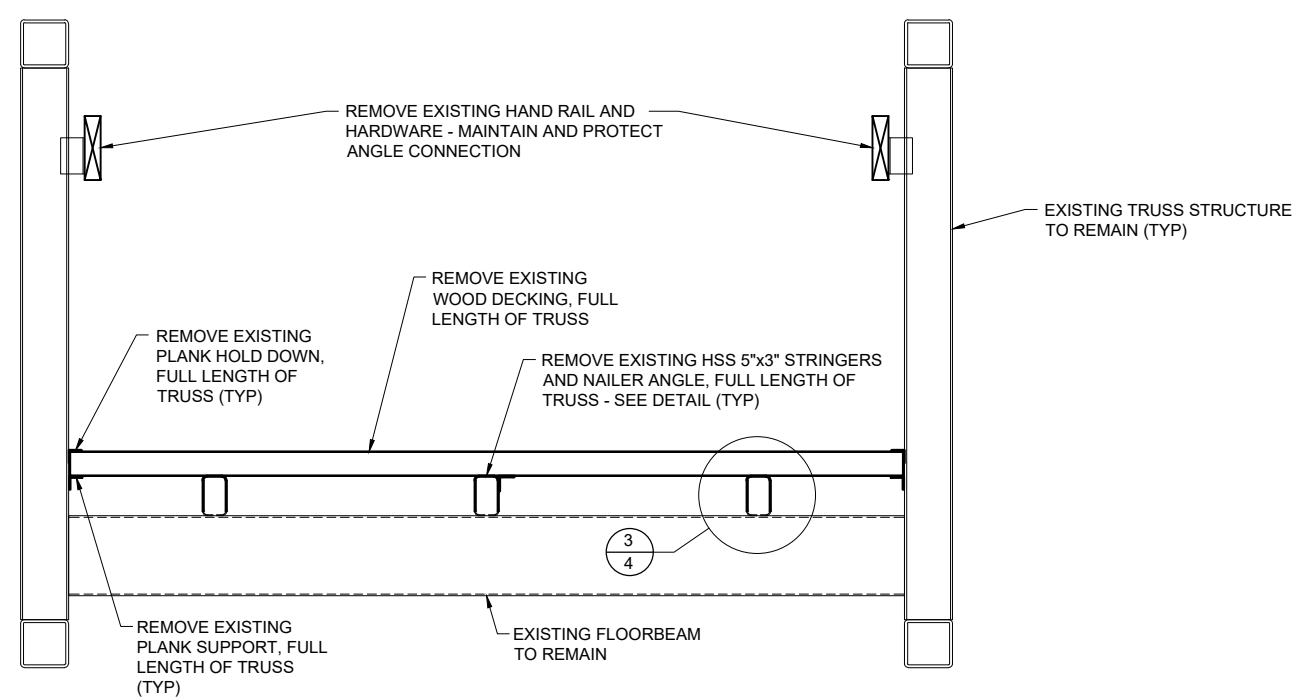
EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN
SCALE: 1/8"=1'-0"



2 PARTIAL STRINGER REMOVAL SECTION
SCALE: 1"=1'-0"



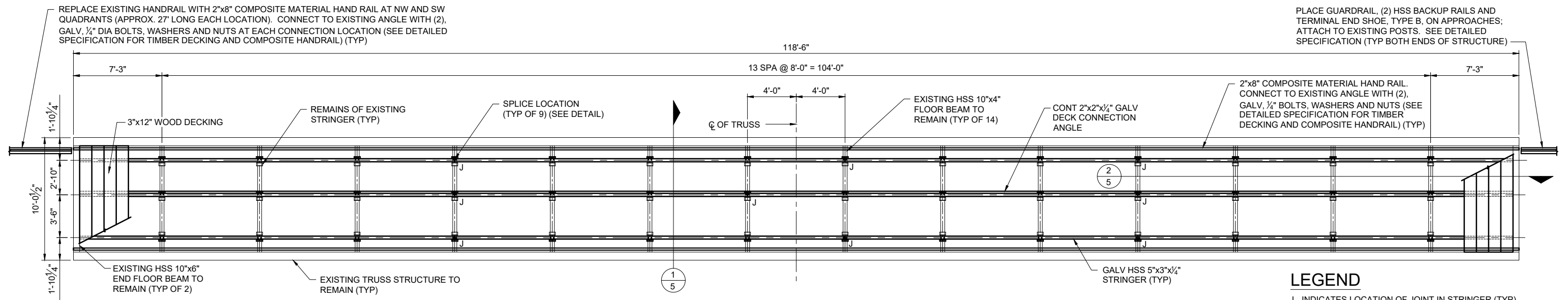
3 PARTIAL STRINGER REMOVAL DETAIL
SCALE: 1"=1'-0"



1 EXISTING STRUCTURE SECTION
SCALE: 1/2"=1'-0"

					THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES											
							2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS									
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					REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY							
	ORIGINAL ISSUE	02/18/22	DAF	CLH												
BANDEMER PARK PEDESTRIAN STRUCTURE EXISTING TRUSS CONDITIONS AND REMOVALS					DRAWING NO.											
					SHEET NO. <u>4</u> OF <u>7</u>											

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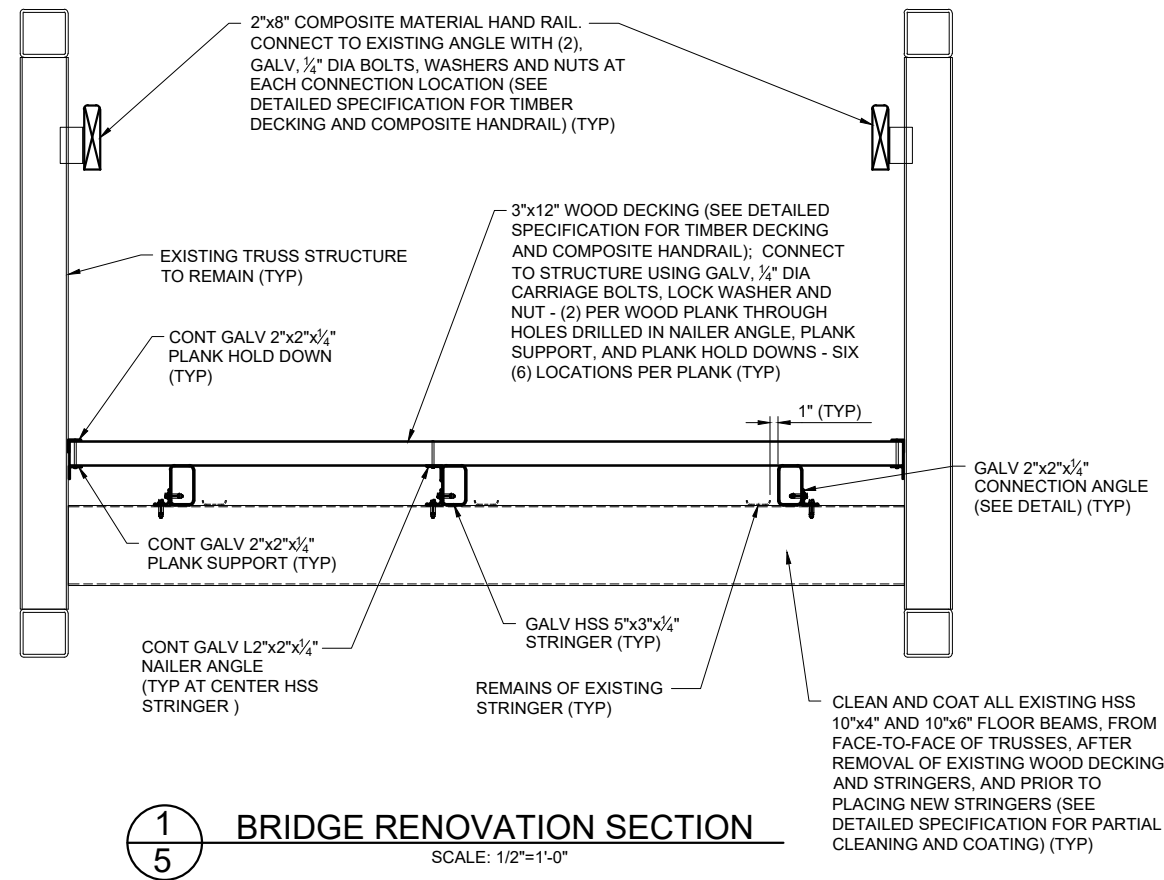


BRIDGE RENOVATION, STRINGER AND FLOOR BEAM FRAMING PLAN

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

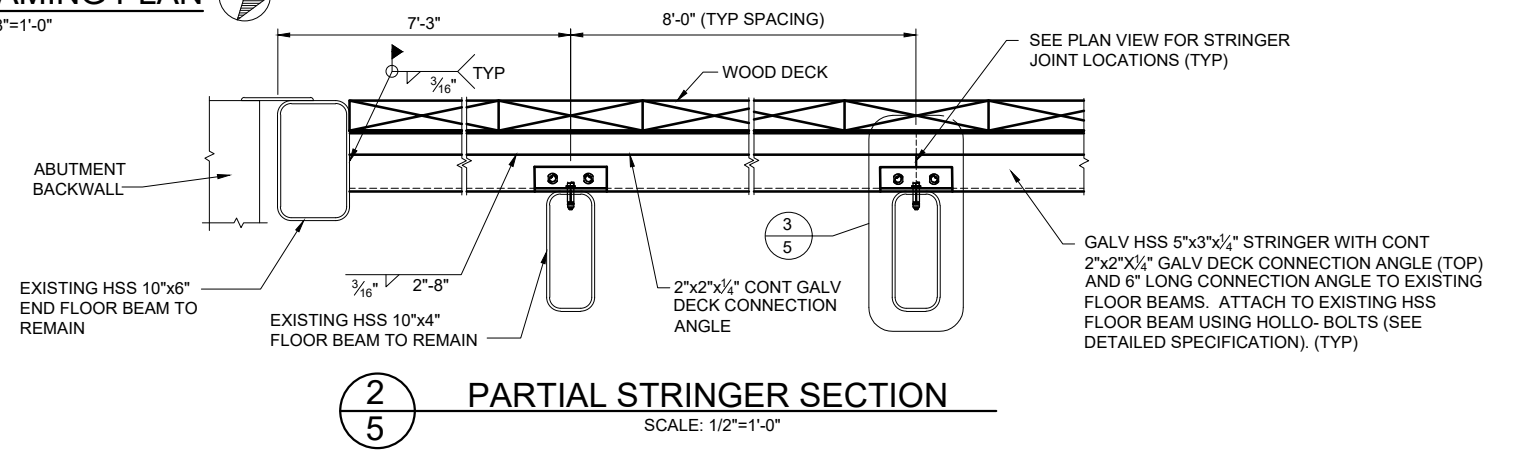
LEGEND

J - INDICATES LOCATION OF JOINT IN STRINGER (TYP)



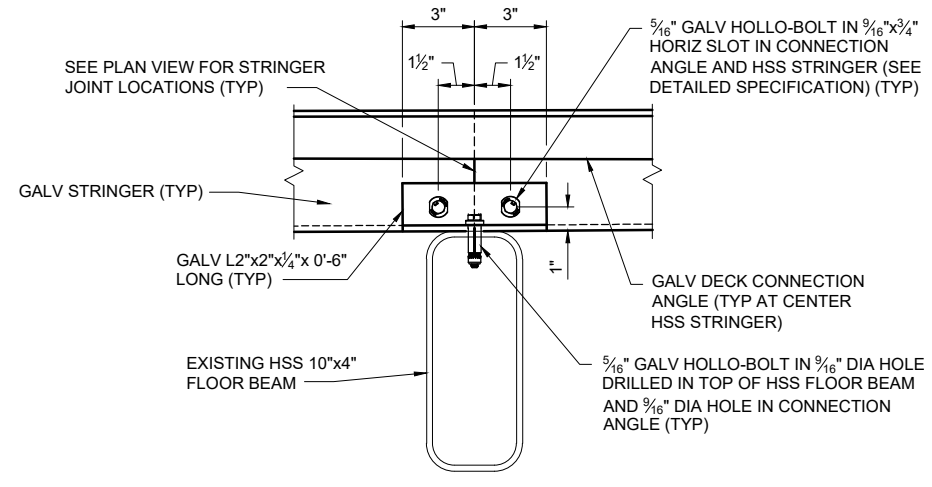
BRIDGE RENOVATION SECTION

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



PARTIAL STRINGER SECTION

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



PROPOSED CONNECTION DETAIL

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

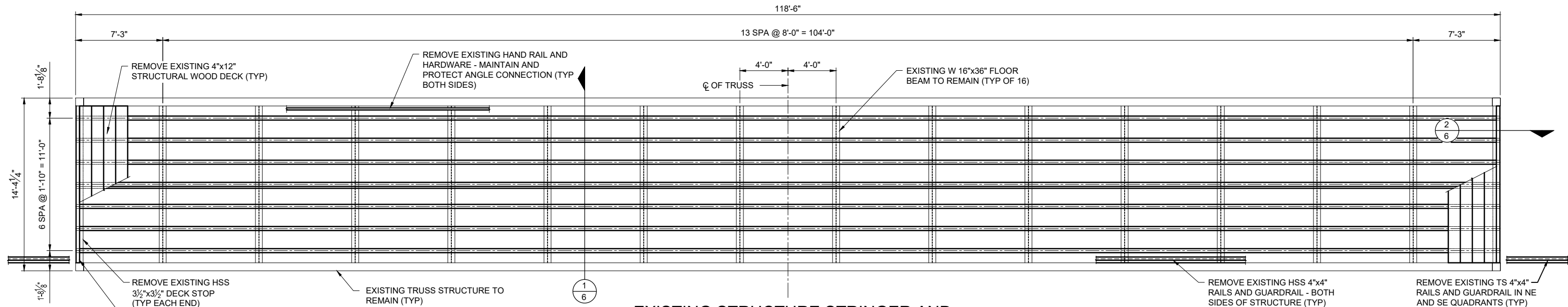
THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS

BANDEMER PARK PEDESTRIAN STRUCTURE BRIDGE RENOVATION DETAILS

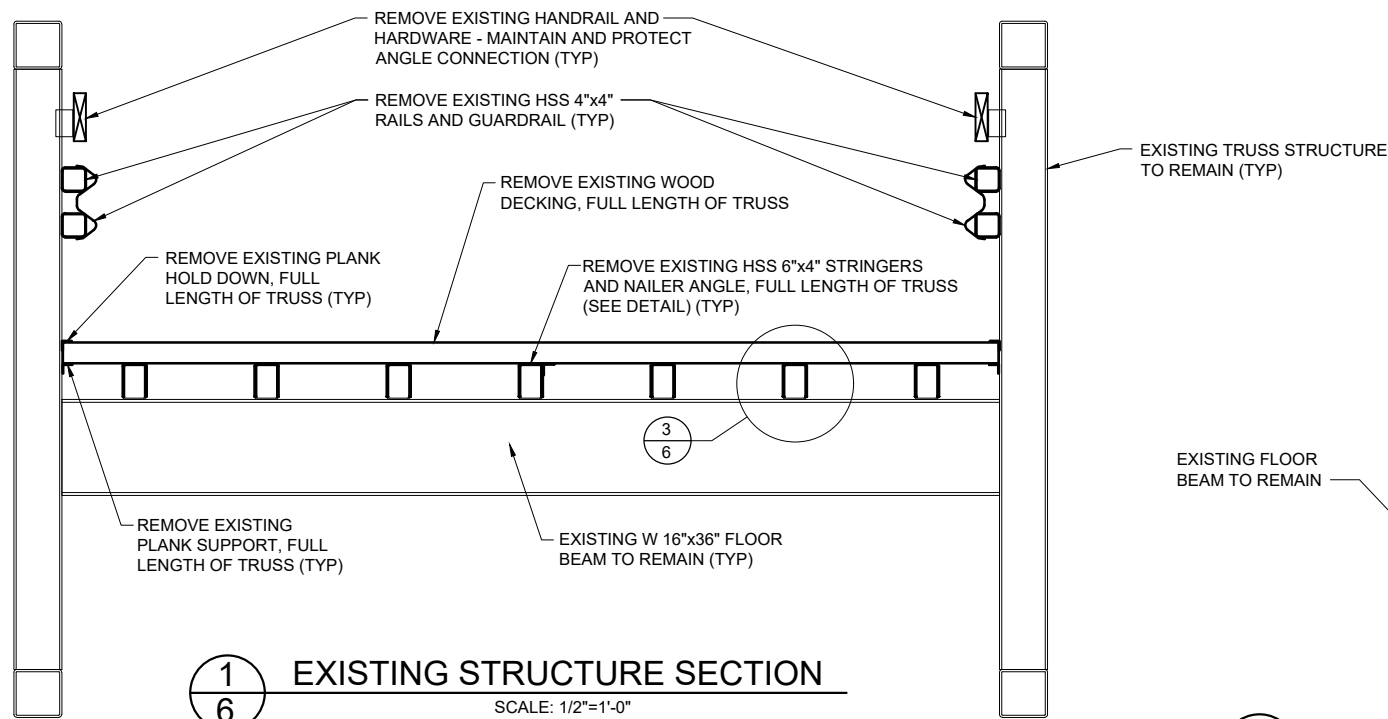
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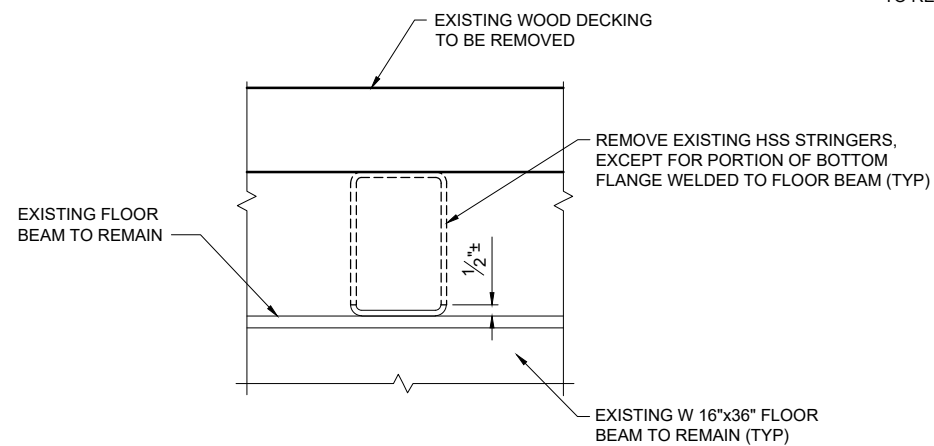
EXISTING STRUCTURE STRINGER AND FLOOR BEAM FRAMING PLAN

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



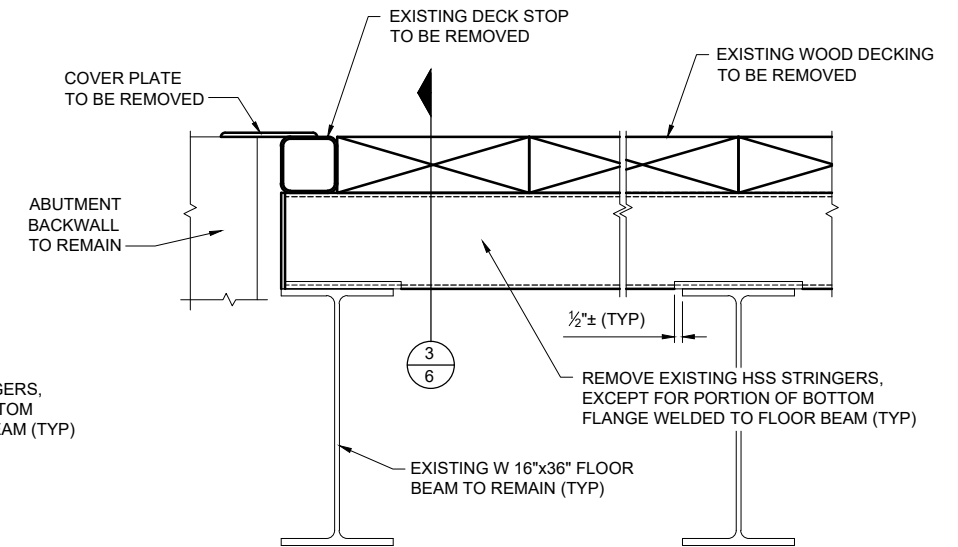
1/6 EXISTING STRUCTURE SECTION

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



3/6 PARTIAL STRINGER REMOVAL DETAIL

SCALE: 1"=1'-0"



2/6 PARTIAL STRINGER REMOVAL SECTION

SCALE: 1"=1'-0"



THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS

**BANDEMER PARK VEHICLE STRUCTURE
EXISTING TRUSS CONDITIONS AND REMOVALS**

SCALE AS SHOWN

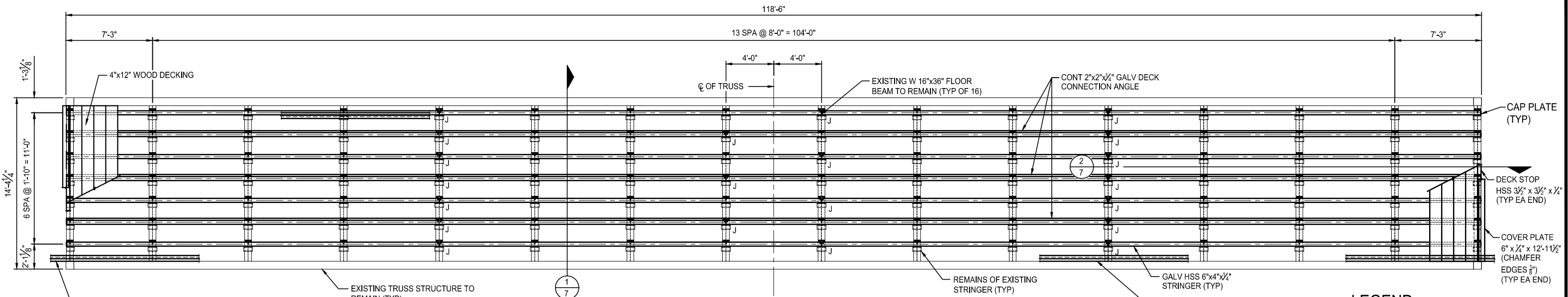
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REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY

ORIGINAL ISSUE 02/18/22 DAF CLH

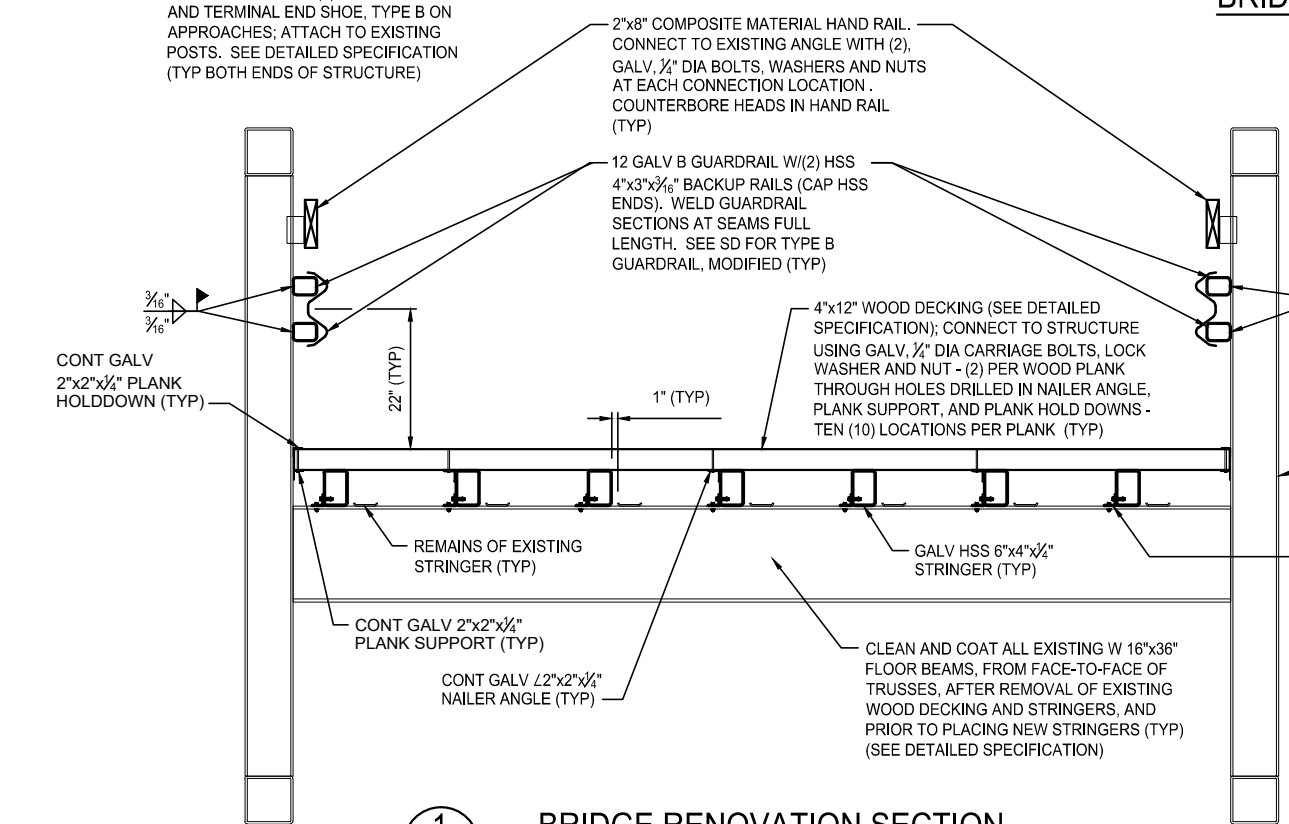
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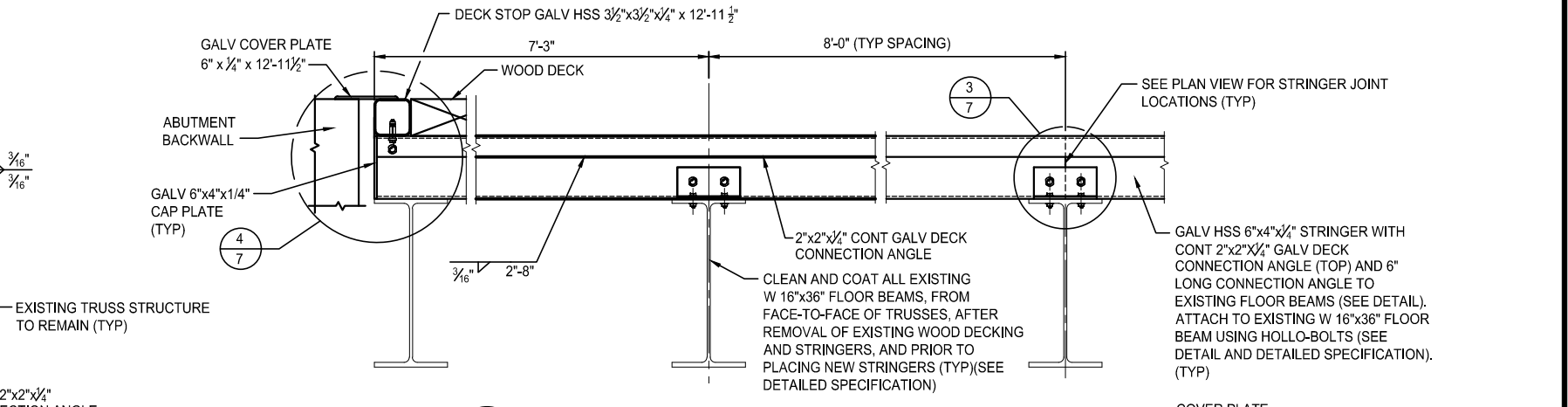
BRIDGE RENOVATION, STRINGER AND FLOOR

BEAM FRAMING PLAN
SCALE: 1/8"=1'-0"

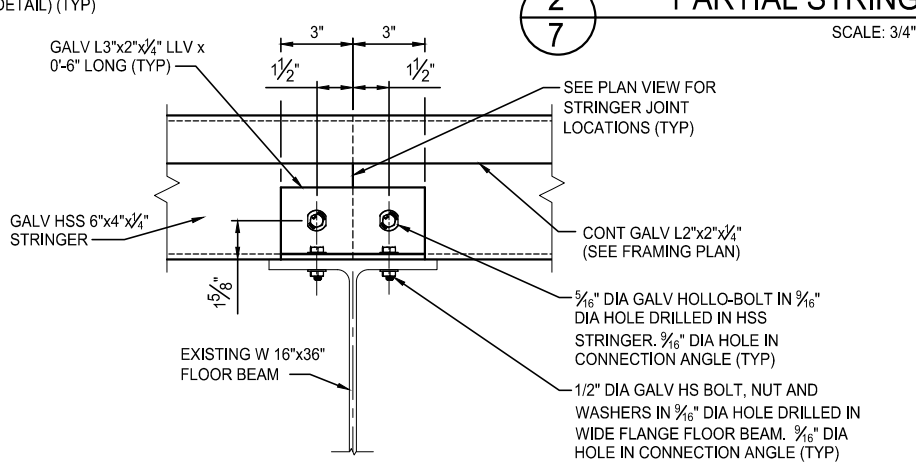
LEGEND
J - INDICATES LOCATION OF JOINT IN STRINGER



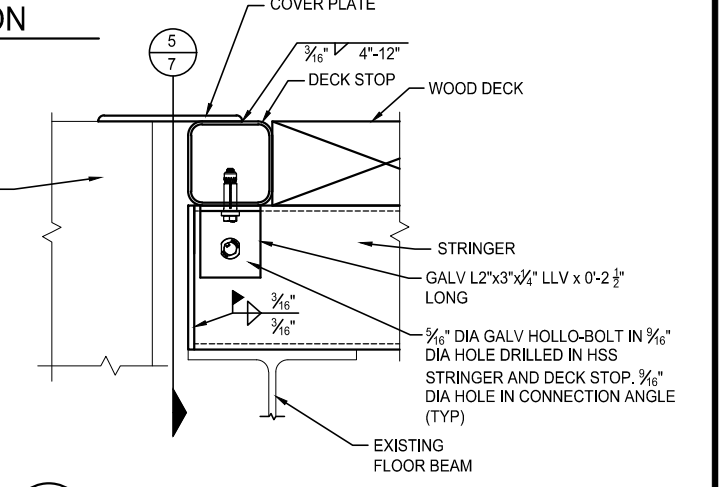
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BRIDGE RENOVATION SECTION
SCALE: 3/8"=1'-0"



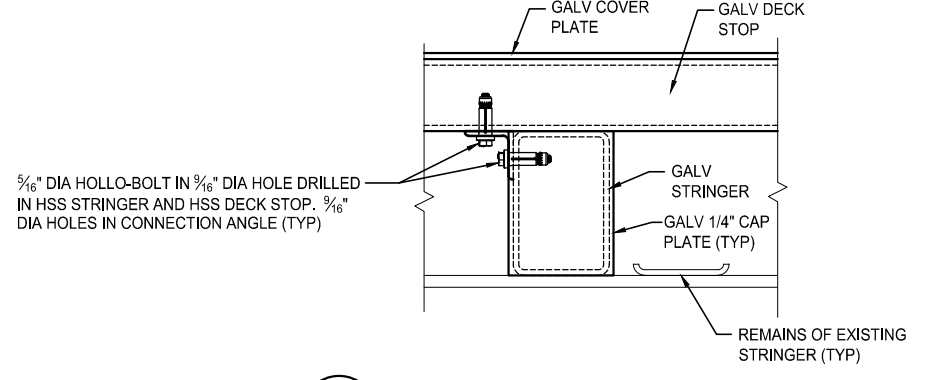
2
PARTIAL STRINGER SECTION
SCALE: 3/4"=1'-0"



3
STRINGER CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



4
DECK STOP CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"
4 LOCATIONS EACH END



5
DECK STOP CONNECTION SECTION
SCALE: 1 1/2"=1'-0"
4 LOCATIONS EACH END

DLZ				
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THE CITY OF ANN ARBOR - PARKS AND RECREATION SERVICES

2022 BANDEMER PARK BRIDGE REPAIRS AND RENOVATIONS

BANDEMER PARK VEHICLE STRUCTURE BRIDGE RENOVATION DETAILS

SCALE AS SHOWN	
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SHEET NO.	7 OF 7

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