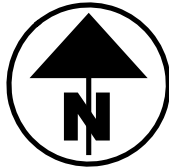


SEE SHEET P.02 FOR
LOCATION MAPS

LOCATION MAP



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

	<u>US 52</u>	<u>SR 32</u>
CURRENT ADT (2025)	11,500	12,500
DESIGN YEAR ADT (2045)	14,000	15,000
DESIGN HOURLY VOLUME (2045)	1,700	1,700
DIRECTIONAL DISTRIBUTION	51%	52%
TRUCKS (24 HOUR B&C)	9%	12%
DESIGN SPEED	75 MPH	65 MPH
LEGAL SPEED	70 MPH	60 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
03 PRINCIPAL ARTERIAL OTHER (RURAL)		
NHS PROJECT	YES	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig


Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 ENGINEERING

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SCI/JAC-52/93-35.72/15.48

SCIOTO / JACKSON COUNTY

GREEN / LICK TOWNSHIP

INDEX OF SHEETS:

TITLE SHEET	P.01
GENERAL NOTES	P.02
MAINTENANCE OF TRAFFIC	P.03
GENERAL SUMMARY	P.04
STRUCTURES OVER 20' SPAN	
SCI-52-3572 (SFN 7302045)	P.05 - P.08
JAC-93-1548 (SFN 4001206)	P.09 - P.12

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPAIR OF COLLISION DAMAGE TO BRIDGE NO. SCI-52-3572 AND
BRIDGE NO. JAC-93-1548 BY MEANS OF HEAT STRAIGHTENING
AND OTHER ASSOCIATED REPAIR WORK.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

LIMITED ACCESS

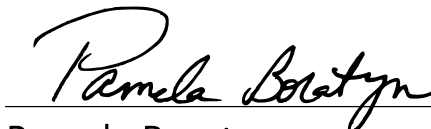
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND
HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION
OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION
5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF
TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN
THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN
THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS
IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY
AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC
WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

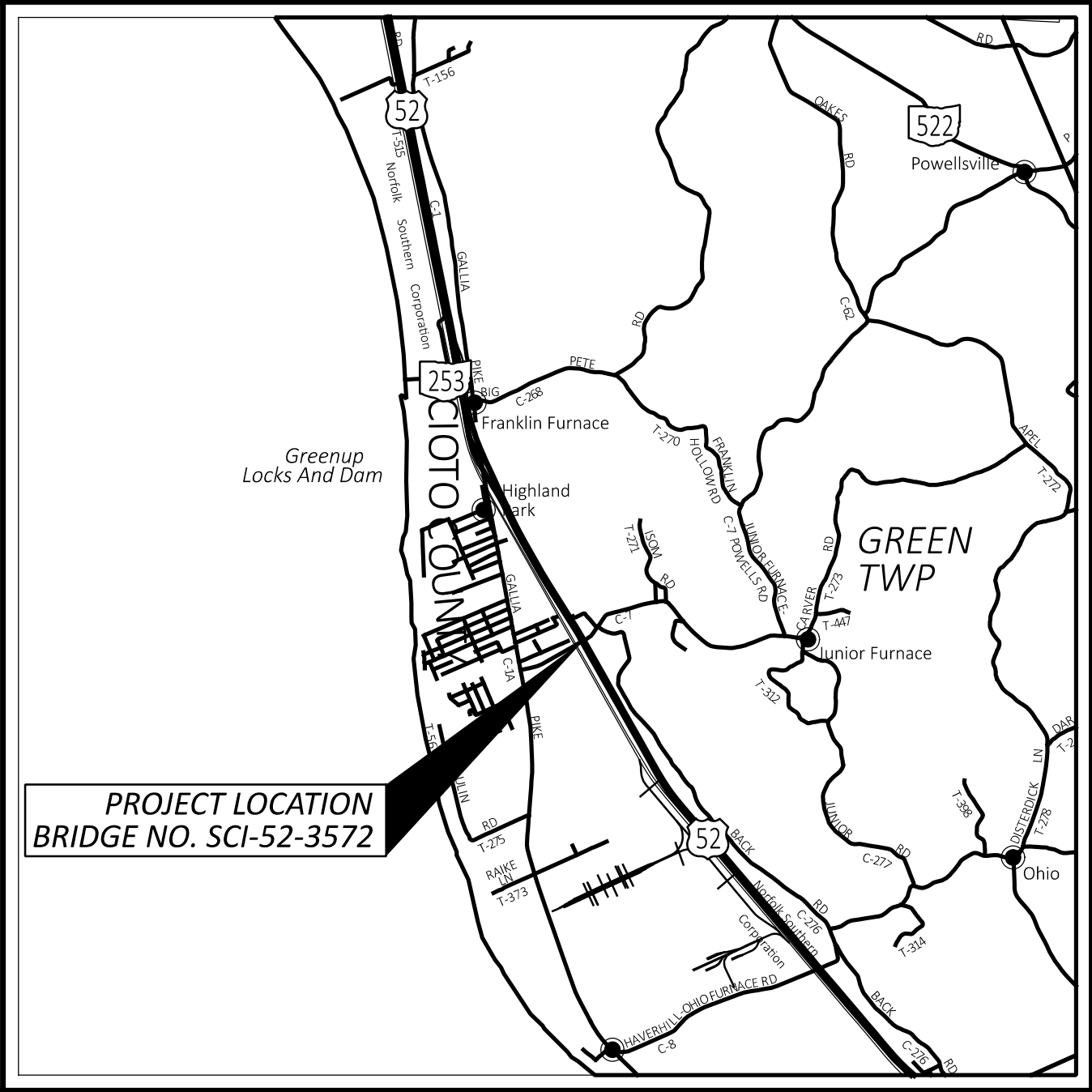

Michael G. Dombrowski
District 09 Deputy Director


Pamela Boratyn
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
MT-95.30	7/18/25					800-2023 7/18/25	
MT-102.20	4/19/19					808 7/19/24	
MT-104.10	1/19/24					821 4/20/12	
MT-105.10	1/17/20					832 7/18/25	
						849 1/18/13	
TC-41.10	7/19/13					908 1/17/25	
TC-42.20	10/18/13					987 1/16/09	
TC-52.10	10/18/13						
TC-52.20	1/15/21						

ENGINEER'S SEAL





LOCATION MAP

LATITUDE: N38°37'20" LONGITUDE: W82°50'14"



PORTION TO BE IMPROVED	=====
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	=====



LOCATION MAP

LATITUDE: N39°02'19" LONGITUDE: W82°37'39"



PORTION TO BE IMPROVED	=====
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	=====

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA.

EXISTING PLANS

EXISTING PLANS FOR BRIDGE NO. SCI-52-3572 AND BRIDGE NO. JAC-93-1548 MAY BE INSPECTED ON THE ODOT FTP WEBSITE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.



ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE 10' LANE OF TRAFFIC IN THE WESTBOUND AND 2 LANES IN THE EASTBOUND DIRECTION ON U.S. 52 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. C.R. 7 IS CURRENTLY BEING CONTROLLED BY TEMPORARY SIGNALS OWNED BY THE SCIOTO COUNTY ENGINEER. THE SCIOTO COUNTY ENGINEER WILL CONTINUE TO MAINTAIN/OPERATE THE TEMPORARY SIGNAL DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL NOT DISTURB THE TIMING OR OPERATION OF THE SIGNALS DURING CONSTRUCTION OF THE PROJECT AND SHALL COORDINATE ANY CHANGE NEEDED WITH THE SCIOTO COUNTY ENGINEER.

A MINIMUM OF ONE 10' LANE OF TRAFFIC IN THE EASTBOUND AND 2 LANES IN THE WESTBOUND DIRECTION ON S.R. 32 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. ALL LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON S.R. 93 BY USE OF THE EXISTING PAVEMENT. ALL RAMPS AT THE S.R. 32 & S.R. 93 INTERSECTION SHALL REMAIN OPEN AT ALL TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

MAINTAINING TRAFFIC SEQUENCE

MAINTAIN TRAFFIC ON U.S. 52 IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.30 AND MT-102.20.

MAINTAIN TRAFFIC ON C.R. 7 AS DESCRIBED WITHIN THE PLANS. CLOSURES ON THIS ROUTE WILL BE ALLOWED BETWEEN THE HOURS OF 9 AM AND 2 PM DAILY FOR A MAXIMUM OF 15 WORKING DAYS TOTAL IF NEEDED TO COMPLETE THE WORK.

COMPLETE ALL ITEMS OF WORK ASSOCIATED WITH BRIDGE NO. SCI-52-3572 EXCEPT PAINTING PRIOR TO BEGINNING WORK ON BRIDGE NO. JAC-93-1548, UNLESS APPROVED BY THE DCE.

MAINTAIN TRAFFIC ON S.R. 32 IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.30, MT-98.20, AND MT-102.20.

COMPLETE ALL ITEMS OF WORK ASSOCIATED WITH BRIDGE NO. JAC-93-1548.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

SHOULDER RUMBLE STRIPS

TRAFFIC SHALL NOT BE REQUIRED TO USE ANY PAVED BERMS FOR MAINTENANCE OF TRAFFIC OPERATIONS UNTIL THE EXISTING RUMBLE STRIPS HAVE BEEN REMOVED AND REPLACED WITH ITEM, ASPHALT CONCRETE SURFACE COURSE, TYPE, PG64-22. QUANTITIES HAVE BEEN PROVIDED BELOW TO PLANE THE EXISTING SHOULDERS 2 FEET WIDE AND 1 INCH DEEP IN THE AREA WHERE THE EXISTING RUMBLE STRIPS OCCUR. THIS AREA SHALL RECEIVE AN APPLICATION OF ITEM 407 TACK COAT PRIOR TO REPLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. ACCEPTANCE OF THE ASPHALT SURFACE COURSE SHALL IN ACCORDANCE WHIT C&MS 449.

SHOULDER RUMBLE STRIPS (CONT.)

THE QUANTITIES BELOW ARE BASED ON THE FOLLOWING:

BRIDGE NO. SCI-52-3572, 01-NHS
SLM 35.65 TO SLM 35.93 (WESTBOUND RIGHT LANE)
(STA. 1882+40 TO STA. 1897+00)

SLM 35.69 TO SLM 35.90 (WESTBOUND LEFT LANE)
(STA. 1884+35 TO STA. 1895+60)

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, (1" DEEP)
[(1460 FT. + 1125 FT.) x 2 FT. / 9] = 575 SY

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22 (1" THICK) [(1460 FT + 1125 FT. x 0.0833 FT.) x 2 FT. / 27] = 16 CY

ITEM 407, TACK COAT
(@ 0.085 GAL PER SQ. YD.) (575 SY x 0.085) = 49 GAL

ITEM 618, RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
(1460 FT. + 1125 FT.) = 2585 FT.

BRIDGE NO. JAC-93-1548, 02-NHS
SLM 10.66 TO SLM 10.92 (EASTBOUND RIGHT LANE)

SLM 10.70 TO SLM 10.88 (EASTBOUND LEFT LANE)

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, (1" DEEP)
[(1390 FT. + 910 FT.) x 2 FT. / 9] = 511 SY

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22 (1" THICK) [(1390 FT + 910 FT. x 0.0833 FT.) x 2 FT. / 27] = 14 CY

ITEM 407, TACK COAT
(@ 0.085 GAL PER SQ. YD.) (511 SY x 0.085) = 44 GAL

ITEM 618, RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
(1390 FT. + 910 FT.) = 2300 FT.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614: 01/NHS
WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 3.28 MILE
WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT 3.360 FEET

ITEM 614: 02/NHS
WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 1.80 MILE
WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT 2.880 FEET

NOTIFICATION OF TRAFFIC RESTRICTIONS (CONT.)

NOTE A MINIMUM VERTICAL CLEARANCE OF 14'-6" SHALL BE MAINTAINED AT ALL TIMES. NOTIFY THE ENGINEER IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 14'-6" AT ANY POINT DUE TO THE EXISTING CONDITIONS OR CONTRACTOR OPERATIONS. PRIOR TO OPENING ANY TEMPORARY LANE CONFIGURATION TO TRAFFIC THE CONTRACTOR SHALL VERIFY THE ACTUAL VERTICAL CLEARANCE AND PROVIDE DOCUMENTATION OF THIS CLEARANCE TO THE ENGINEER. INCLUDE THE COSTS FOR THESE MEASUREMENTS AND SUBMITTALS FOR PAYMENT WITH ITEM 614.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS <= 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER SCI-52-35.72 WB
WZ-50452

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSEVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

WORK ZONE SPEED ZONES (WZSZS), (CONT.)

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH)
FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
6 SIGN MNTH - 01/NHS
ASSUMING 2 DSL SIGN ASSEMBLIES FOR 3 MONTHS

CALCULATED BY:
SPACING = 1.0 MILES PER SPEED ZONE AREA = (0.66/1.0 MILES)
= 0.66 SIGNS
OR 1 SIGN + 1 (FIRST SIGN) = 2 SIGNS

DESIGN AGENCY



DESIGNER

JAZ

REVIEWER

MCM 09-12-25

PROJECT ID

123728

SHEET

P.03

TOTAL

12

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/12/2025 TIME: 7:39:54 AM PLTDRY: OHDOT_PDF.pltcr PENTBL: OHDOT_Pen.tbl USER: Joshua.Zickel@ohio.gov WORKSPACE: OHDOTCEV02 WORKSET: 123728 PRODUCT: OpenRoadsDesigner 24.00.00.2005
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[illegible]

GENERAL SUMMARY

DESIGN AGENCY



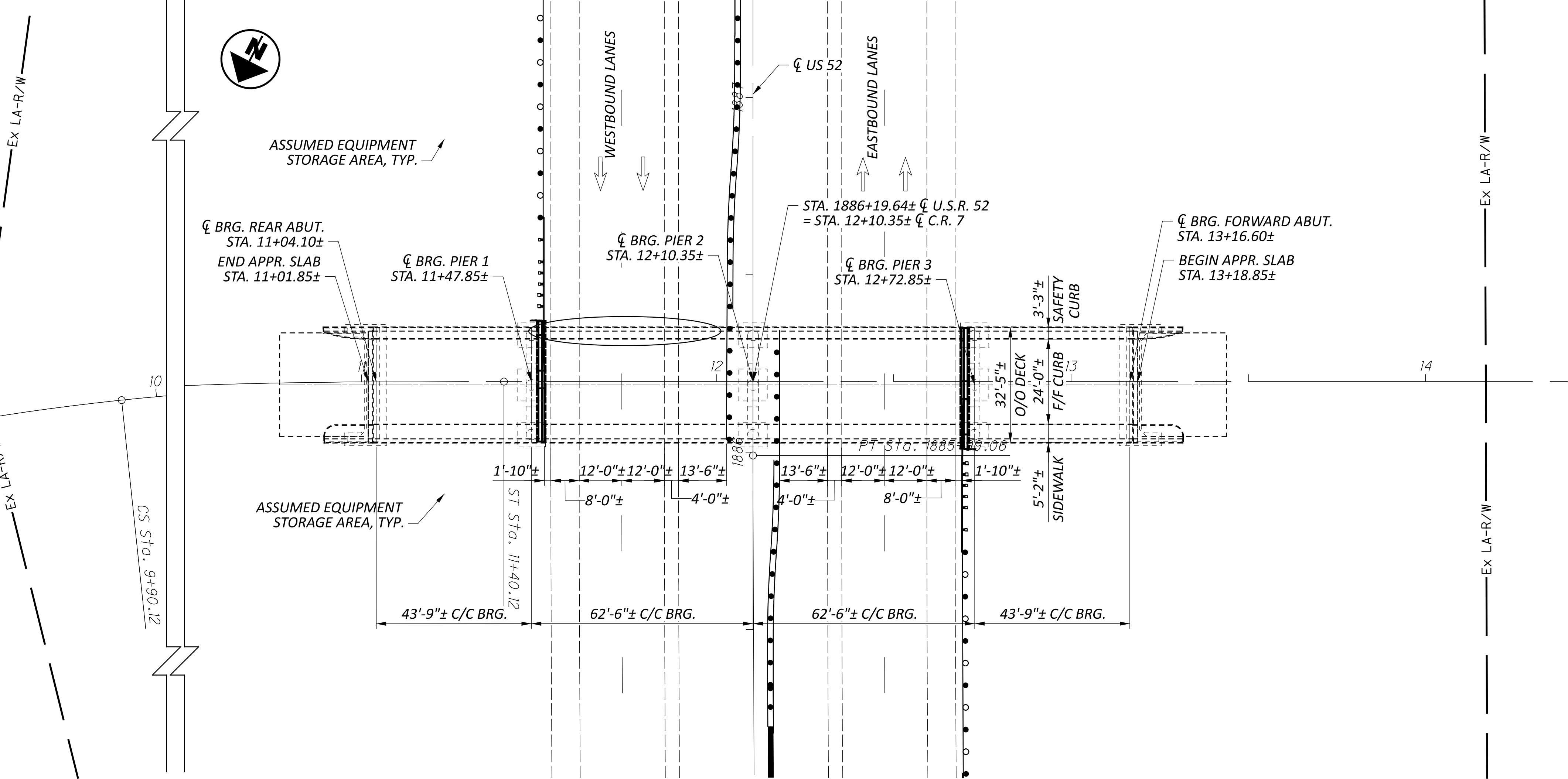
DESIGNER
JAZ

REVIEWER

MCM 09-12-25

PROJECT ID
123728

SHEET	TOTAL
P.04	12

**LEGEND**

INDICATES AREA TO BE HEAT STRAIGHTENED

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM BRIDGE WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: ±43'-9", ±62'-6", ±62'-6", ±43'-9" c/c BEARING

ROADWAY: ±24'-0" F/F SAFETY CURB

LOADING: CF 130 (57)

SKEW: NONE

WEARING SURFACE: LOW SLUMP CONCRETE (1.2"± THICK)

APPROACH SLABS: AS-1-54 (±25'-0" LONG)

ALIGNMENT: SPIRAL TANGENT

CROWN: VARIES

STRUCTURE FILE NUMBER: 7302045

DATE BUILT: 1963

DISPOSITION: TO BE REPAIRED

COORDINATES: LATITUDE 38°37'20.23" N

LONGITUDE 82°50'13.55" W

PROPOSED WORK

- HEAT STRAIGHTEN BEAM 4
- REPAIR/REPLACED DAMAGED CROSSFRAMES
- REPAIR GAP BETWEEN BEAM 4 TOP FLANGE AND THE CONCRETE DECK USING EPOXY INJECTION.
- FIELD PAINT REPAIRED STRUCTURAL STEEL AND REPLACED CROSSFRAMES
- COMPLETE OTHER ITEMS OF WORK SHOWN ON THE PLANS. WORK LISTED IS NOT ALL INCLUSIVE. CONTRACTOR WILL SEQUENCE WORK AS NEEDED FOLLOWING THE MAINTENANCE OF TRAFFIC PHASE CONSTRUCTIONS SHOWN ON THE PLANS.

SFN

7302045

DESIGN AGENCY



DESIGNER

JAZ

CHECKER

REVIEWER

MCM 09-12-25

PROJECT ID

123728

SUBSET

1

TOTAL

4

SHEET

P.05

TOTAL

12

SITE PLAN

BRIDGE NO. SCI-52-3572
COUNTY ROUTE 7 OVER US ROUTE 52HORIZONTAL
SCALE IN FEET
0 10 20 40PROFILE ALONG CL BRIDGE
(FOR REFERENCE ONLY)

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED 7/18/25
832 DATED 7/18/25
849 DATED 1/18/13

DESIGN DATA:

STRUCTURAL STEEL - ASTM A709, GRADE 50, MINIMUM YIELD STRENGTH 50 KSI

STEEL RESTRAINT OR PRELOAD LIMITS:

EXISTING STRUCTURAL STEEL - ASTM A373, YIELD STRENGTH 33 KSI, DO NOT SUBJECT ANY PART OF THE STRUCTURAL STEEL TO A JACKING, PULLING, OR RESTRAINING UNIT STRESS EXCEEDING 16 KSI.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CM&S SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS:

EXISTING PLANS CAN BE INSPECTED ON THE ODOT FTP WEBSITE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS):

AN ESTIMATED QUANTITY FOR EACH LOCATION (SECONDARY MEMBERS): IS PROVIDED IN THE TABLE ON SHEET 4 OF 4, FOR REMOVAL OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING SECONDARY MEMBERS ACCORDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN ¼ INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12 PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH THE UNIT PRICE BID FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS).

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED, ACCORDING S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN THE TABLE ON SHEET 4 OF 4. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT):

1.0 DESCRIPTION
STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU OR IZEU PAINT SYSTEM OR UNPAINTED WEATHERING STEEL TO CORRECT DAMAGE BY COLLISION OR CORROSION. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU OR IZEU PAINT SYSTEMS OR UNPAINTED WEATHERING STEEL.

2.0 GENERAL
CMS 514.05 THROUGH 514.10 AND 514.13.D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING OZEU OR IZEU PAINTED SURFACES OR UNPAINTED WEATHERING STEEL
COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE, SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS.

4.0 SURFACE PREPARATION
AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 11, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3; SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1; OR SSPC SP12 UHP WJ-4, ULTRAHIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING'S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF ½ INCH OF EACH COAT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO C&MS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A ¼ INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) CONTINUED:

5.0 FIELD PAINTING
APPLY THE PRIME, INTERMEDIATE, AND FINISH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN C&MS 708.02, ACCORDING TO C&MS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, UNPAINTED WEATHERING STEEL OR AS DESIGNATED IN THE CONTRACT. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF C&MS 514.20. APPLY PAINT AS FOLLOWS:

- A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.
- B. APPLY CAULK AFTER PRIMING
- C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.
- D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME, INTERMEDIATE AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

THE CONTRACTOR SHALL NOT PERFORM FIELD PAINTING UNTIL ALL WELDING, AND HEAT STRAIGHTENING ACTIVITIES HAVE BEEN COMPLETED.

6.0 MEASUREMENT
PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED. THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

7.0 BASIS OF PAYMENT
THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SQUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL. THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

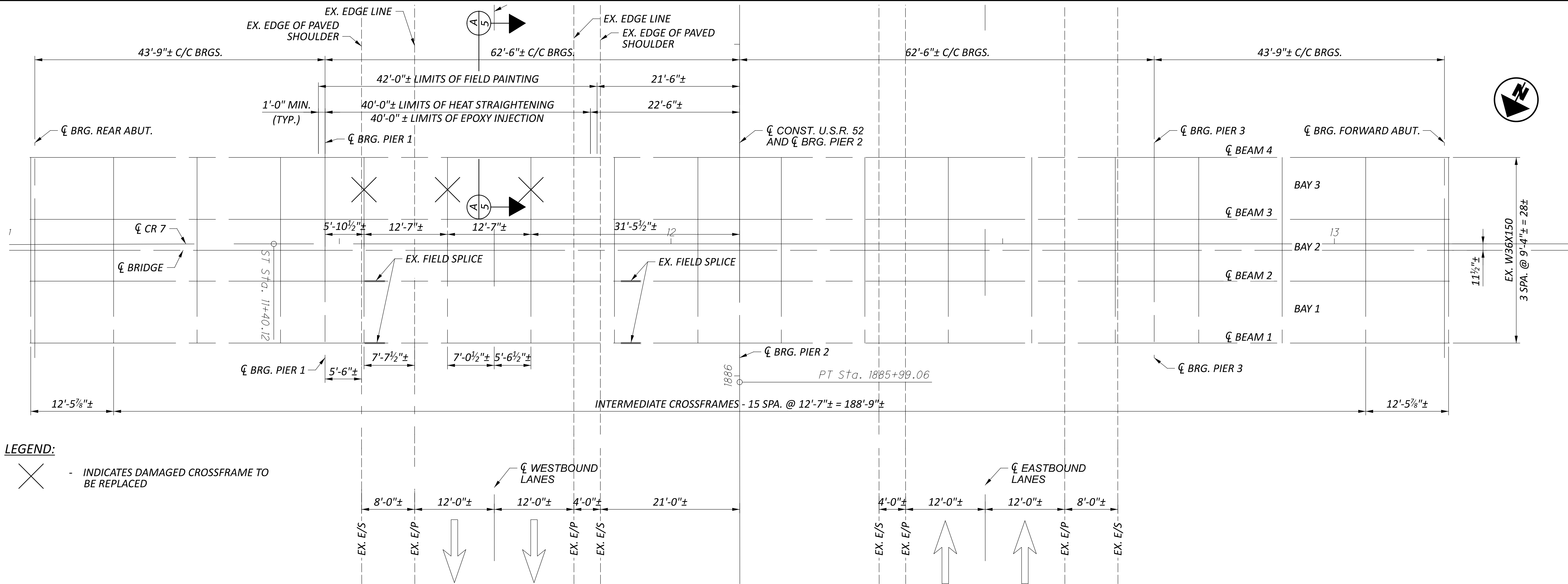
ITEM	UNIT	DESCRIPTION
514	SQUARE FEET	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR A DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

SFN 7302045	
DESIGN AGENCY	
DESIGNER JAZ	CHECKER
REVIEWER MCM 09-12-25	
PROJECT ID 123728	
SUBSET 2	TOTAL 4
SHEET P.06	TOTAL 12

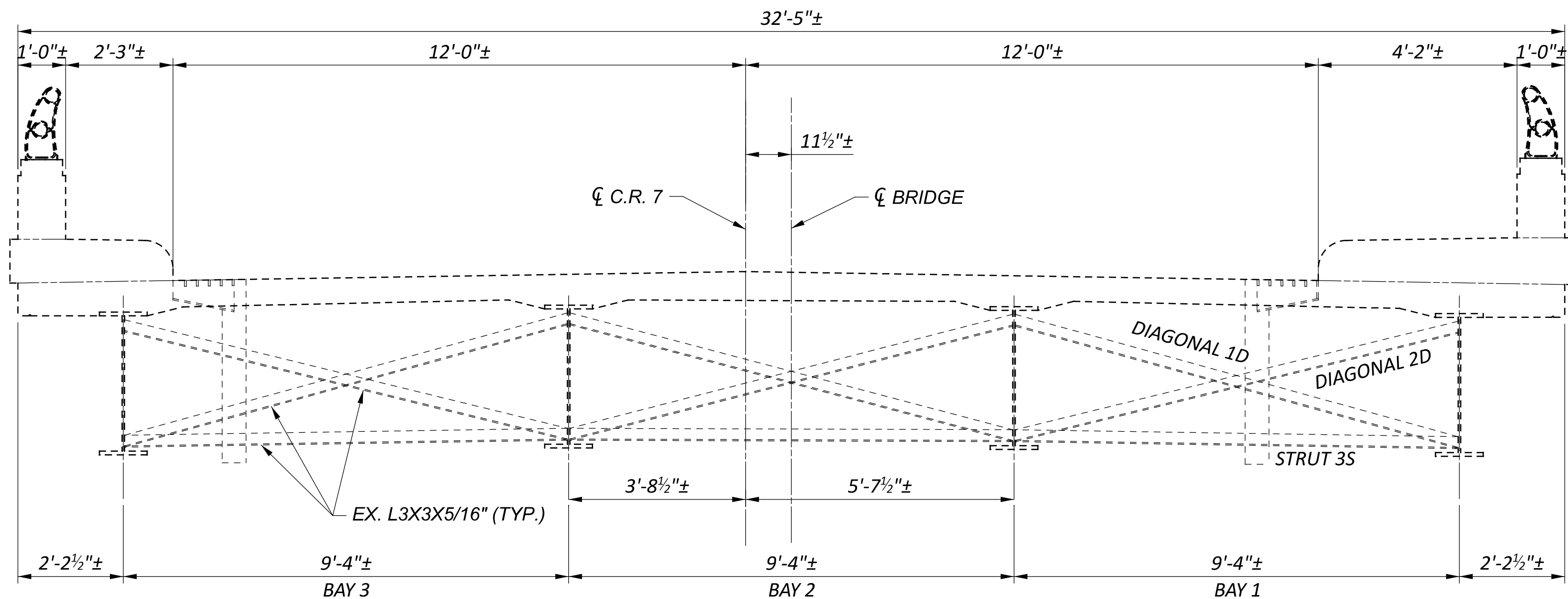
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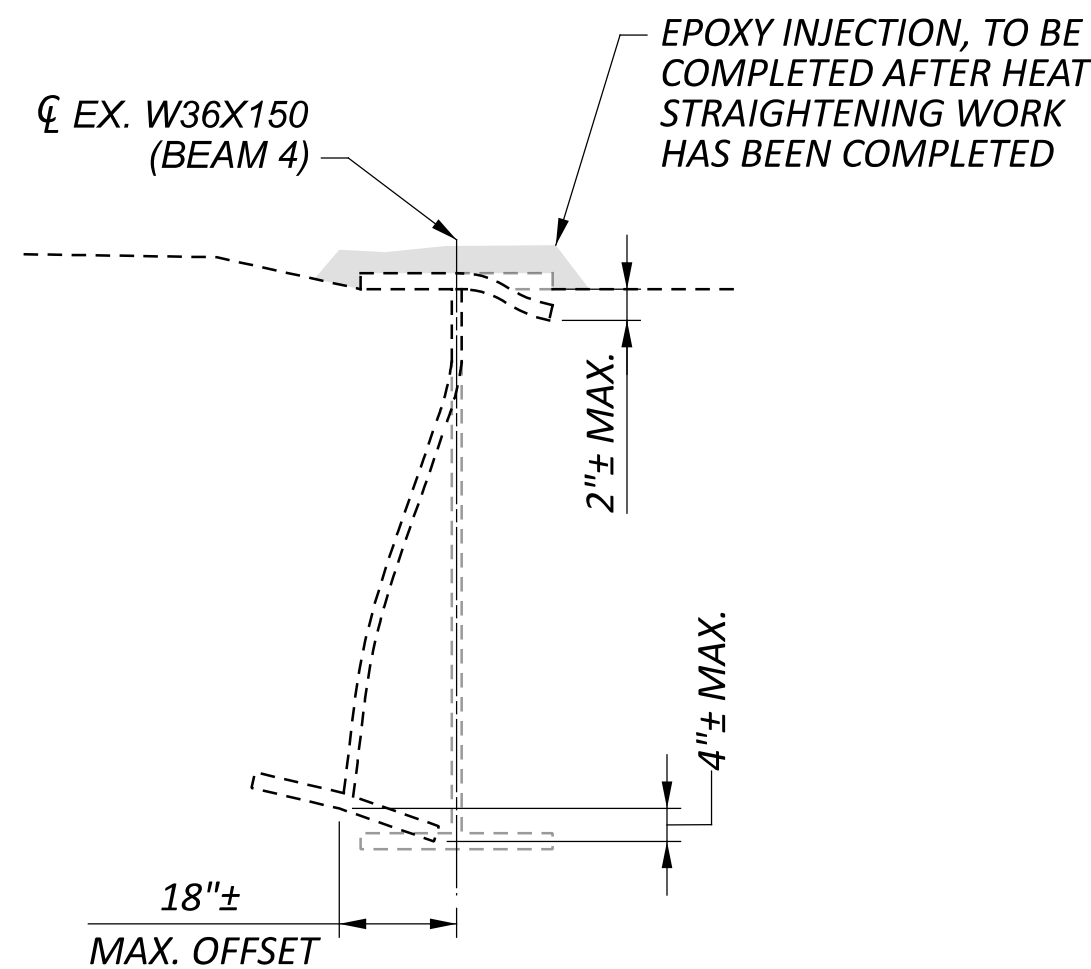
LEGEND:
 - INDICATES DAMAGED CROSSFRAME TO BE REPLACED

DAMAGED SECONDARY MEMBER TO BE REPLACED					
CROSSFRAME BAY	PIER/ABUT.	NO.	1D	2D	3S
3	PIER 1	1	1	1	1
3	PIER 1	2	1	1	1
3	PIER 1	3	1	1	1

EX. FRAMING PLAN



EX. TRANSVERSE SECTION



SECTION A-A

DIMENSIONS SHOWN ARE APPROXIMATE AND TO BE FIELD VERIFIED BY THE CONTRACTOR

NOTES:

- EX. STEEL TYPE IS A-373
 - YIELD STRENGTH IS 33 KSI
 - ALLOWABLE JACKING STRESS IS 16 KSI
- EX. PAINT SYSTEM IS OZEU APPLIED IN 2000.
- BEAM 4 WAS HEAT STRAIGHTENED IN 2013 AT THE SAME LOCATION OF THE PROPOSED HEAT STRAIGHTENING.
- REPAIR GAP BETWEEN STEEL MEMBER AND CONCRETE USING EPOXY INJECTION AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

APPLY AND CURE THE EPOXY INJECTION ACCORDING TO THE MANUFACTURER'S PUBLISHED RECOMMENDATION.

PAYMENTS SHALL BE MADE PER LINEAR FOOT OF BEAM LINE EPOXY INJECTED. INJECTION MAY NEED TO OCCUR ON EITHER OR BOTH SIDES OF THE TOP FLANGE. INJECTION TO THE TOP FLANGE FROM BOTH SIDES DOES NOT CONSTITUTE FOR AN INCREASE IN PAY LENGTH.

THE COST SHALL BE INCLUDED WITH ITEM 522, CONCRETE REPAIR BY EPOXY INJECTION FOR PAYMENT.

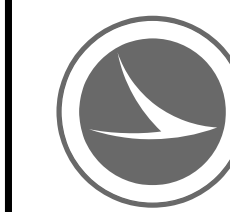
SUPERSTRUCTURE DETAILS

BRIDGE NO. SCI-52-3572

COUNTY ROUTE 7 OVER US ROUTE 52

SFN
 7302045

DESIGN AGENCY



DESIGNER
 JAZ

CHECKER

REVIEWER

MCM 09-12-25

PROJECT ID

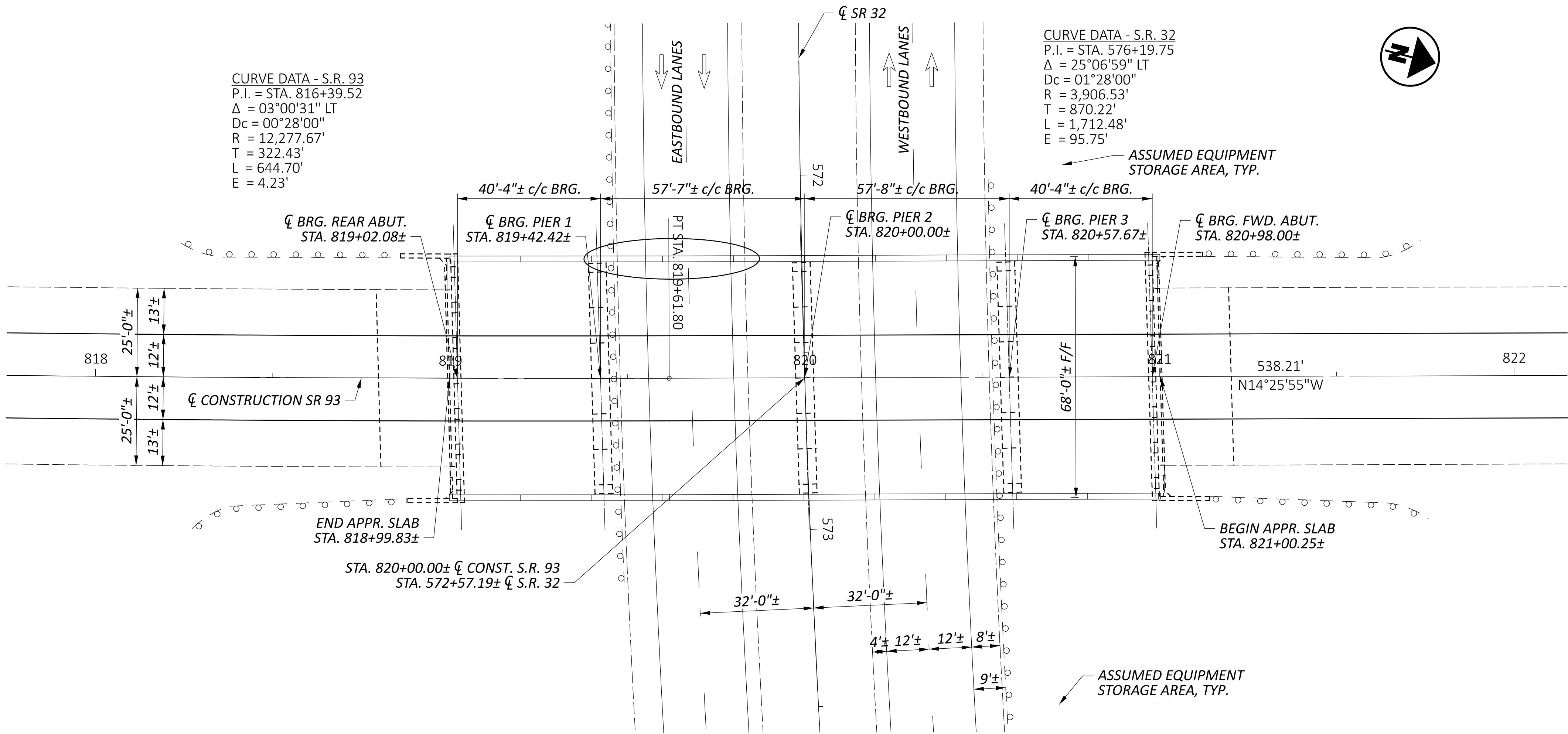
123728

SUBSET TOTAL

4 4

SHEET TOTAL

P.08 12



* - PROFILE COPIED FROM ORIGINAL CONSTRUCTION PLANS. ALL DIMENSIONS & ELEVATIONS ASSUMED ±.

LEGEND

INDICATES AREA TO BE HEAT STRAIGHTENED

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM BRIDGE WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: ±40'-4", ±57'-7", ±57'-8", ±40'-4" c/c BEARING
ROADWAY: ±68'-0" F/F PARAPETS WITH ±9'-0" SIDEWALKS
LOADING: HS 20
SKEW: ±1°32'24" RIGHT FORWARD
WEARING SURFACE: WATERPROOFING ASPHALT (±1.5" THICK)
APPROACH SLABS: AS-1-67 (±20'-0" LONG)
ALIGNMENT: ±0°28'00" CURVE AND TANGENT
CROWN: VARIES
STRUCTURE FILE NUMBER: 4001206
DATE BUILT: 1971
DISPOSITION: TO BE REPAIRED

PROPOSED WORK

- HEAT STRAIGHTEN BEAM 1
- REPAIR/REPLACE DAMAGED CROSSFRAMES
- REPAIR GAP BETWEEN BEAM 1 TOP FLANGE AND THE CONCRETE DECK USING EPOXY INJECTION
- FIELD PAINT REPAIRED STRUCTURAL STEEL AND REPLACED CROSSFRAMES
- COMPLETE OTHER ITEMS OF WORK SHOWN ON THE PLANS. WORK LISTED IS NOT ALL INCLUSIVE. CONTRACTOR WILL SEQUENCE WORK AS NEEDED FOLLOWING THE MAINTENANCE OF TRAFFIC PHASE CONSTRUCTION SHOWN ON THE PLANS

COORDINATES: LATITUDE N39°02'19"
LONGITUDE W82°37'39"

SITE PLAN
BRIDGE NO. JAC-93-1548
OVER S.R. 32

SFN	
4001206	
DESIGN AGENCY	
DESIGNER	CHECKER
JAZ	
REVIEWER	
MCM 09-12-25	
PROJECT ID	
123728	
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.09	12

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED 7/18/25
832 DATED 7/18/25
849 DATED 1/18/13

DESIGN DATA:

STRUCTURAL STEEL - ASTM A709, GRADE 50, MINIMUM YIELD STRENGTH 50 KSI

STEEL RESTRAINT OR PRELOAD LIMITS:

EXISTING STRUCTURAL STEEL - ASTM A36, YIELD STRENGTH 36 KSI, DO NOT SUBJECT ANY PART OF THE STRUCTURAL STEEL TO A JACKING, PULLING, OR RESTRAINING UNIT STRESS EXCEEDING 16 KSI.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CM&S SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS:

EXISTING PLANS CAN BE INSPECTED ON THE ODOT FTP WEBSITE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS):

AN ESTIMATED QUANTITY FOR EACH LOCATION (SECONDARY MEMBERS): IS PROVIDED IN THE TABLE ON SHEET 4 OF 4, FOR REMOVAL OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING SECONDARY MEMBERS ACCORDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN ¼ INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12 PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH THE UNIT PRICE BID FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS).

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED, ACCORDING S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN THE TABLE ON SHEET 4 OF 4. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT):

1.0 DESCRIPTION

STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU OR IZEU PAINT SYSTEM OR UNPAINTED WEATHERING STEEL TO CORRECT DAMAGE BY COLLISION OR CORROSION. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU OR IZEU PAINT SYSTEMS OR UNPAINTED WEATHERING STEEL.

2.0 GENERAL

CMS 514.05 THROUGH 514.10 AND 514.13.D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING OZEU OR IZEU PAINTED SURFACES OR UNPAINTED WEATHERING STEEL

COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE, SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS.

4.0 SURFACE PREPARATION

AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 11, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3; SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1; OR SSPC SP12 UHP WJ-4, ULTRAHIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING'S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF ¼ INCH OF EACH COAT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO C&MS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A ¼ INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) CONTINUED:

5.0 FIELD PAINTING

APPLY THE PRIME, INTERMEDIATE, AND FINISH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN C&MS 708.02, ACCORDING TO C&MS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, UNPAINTED WEATHERING STEEL OR AS DESIGNATED IN THE CONTRACT. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF C&MS 514.20. APPLY PAINT AS FOLLOWS:

- A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.
- B. APPLY CAULK AFTER PRIMING
- C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.
- D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME, INTERMEDIATE AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

THE CONTRACTOR SHALL NOT PERFORM FIELD PAINTING UNTIL ALL WELDING, AND HEAT STRAIGHTENING ACTIVITIES HAVE BEEN COMPLETED.

6.0 MEASUREMENT

PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED. THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

7.0 BASIS OF PAYMENT

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SQUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL. THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

ITEM	UNIT	DESCRIPTION
514	SQUARE FEET	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)

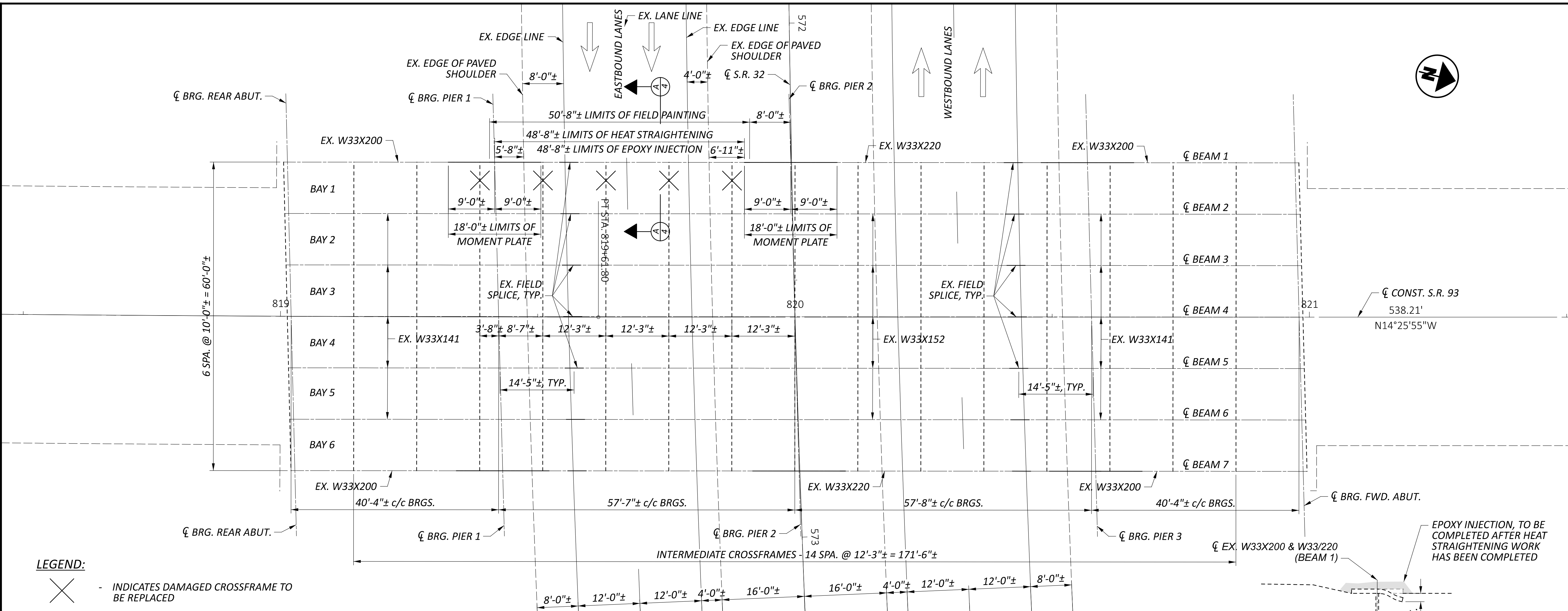
ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR A DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDIGE BEARINGS SHALL BE FULLY SEATED ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

STRUCTURAL NOTES
BRIDGE NO. JAC-93-1548
OVER S.R. 32

SFN 4001206	
DESIGN AGENCY	
DESIGNER JAZ	CHECKER
REVIEWER MCM 09-12-25	
PROJECT ID 123728	
SUBSET 2	TOTAL 4
SHEET P.10	TOTAL 12

[illegible]

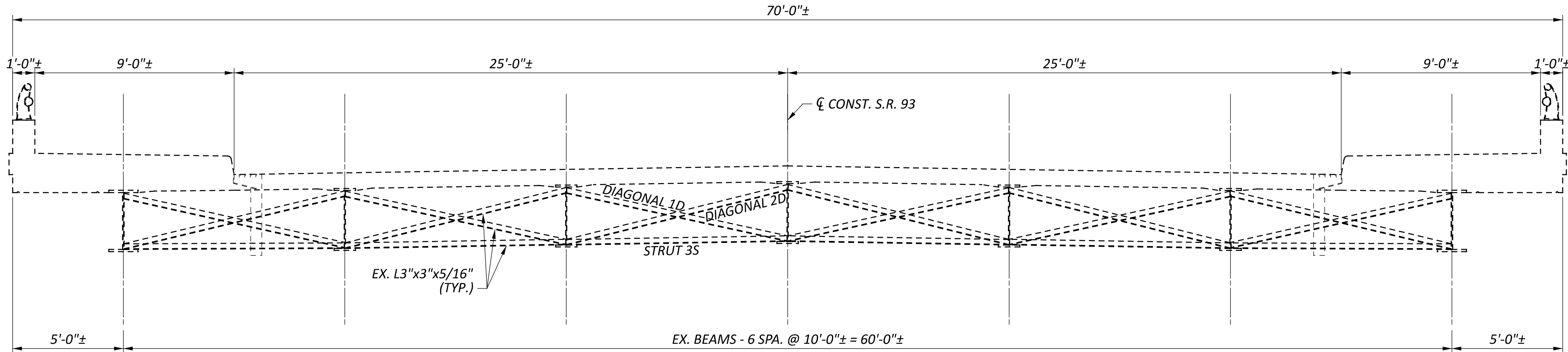


LEGEND:

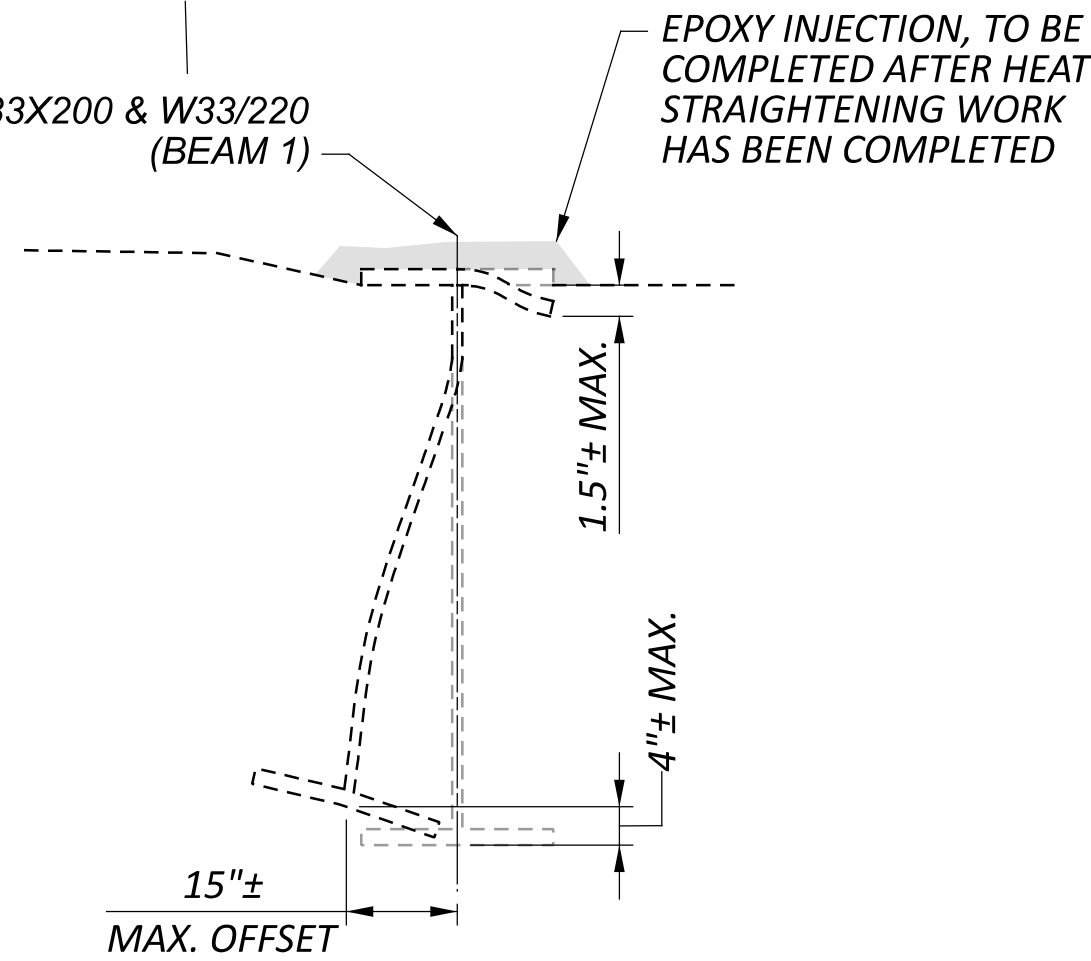
- ✕ - INDICATES DAMAGED CROSSFRAME TO BE REPLACED

DAMAGED SECONDARY MEMBER TO BE REPLACED					
CROSSFRAME BAY	PIER/ABUT.	NO.	1D	2D	3S
1	R. ABUT.	4			1
1	PIER 1	1	1	1	1
1	PIER 1	2	1	1	1
1	PIER 1	3	1	1	1
1	PIER 1	4	1	1	1

EX. FRAMING PLAN



EX. TRANSVERSE SECTION



SECTION A-A

DIMENSIONS SHOWN ARE APPROXIMATE AND TO BE FIELD VERIFIED BY THE CONTRACTOR

NOTES:

- EX. STEEL TYPE IS ASTM A36
- YIELD STRENGTH IS 36 KSI
- ALLOWABLE JACKING STRESS IS 16 KSI
- EX. PAINT IS PAINT SYSTEM B APPLIED IN 1971.
- BEAM 1 WAS HEAT STRAIGHTENED AND HAD A SECTION REPLACED IN 2017 AT THE SAME LOCATION OF THE PROPOSED HEAT STRAIGHTENING.
- REPAIR GAP BETWEEN STEEL MEMBER AND CONCRETE USING EPOXY INJECTION AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

APPLY AND CURE THE EPOXY INJECTION ACCORDING TO THE MANUFACTURER'S PUBLISHED RECOMMENDATION.

PAYMENTS SHALL BE MADE PER LINEAR FOOT OF BEAM LINE EPOXY INJECTED. INJECTION MAY NEED TO OCCUR ON EITHER OR BOTH SIDES OF THE TOP FLANGE. INJECTION TO THE TOP FLANGE FROM BOTH SIDES DOES NOT CONSTITUTE FOR AN INCREASE IN PAY LENGTH.

THE COST SHALL BE INCLUDED WITH ITEM 522, CONCRETE REPAIR BY EPOXY INJECTION FOR PAYMENT.

SUPERSTRUCTURE DETAILS
BRIDGE NO. JAC-93-1548
OVER S.R. 32

SFN
4001206
DESIGN AGENCY



DESIGNER JAZ	CHECKER
REVIEWER MCM 09-12-25	
PROJECT ID 123728	
SUBSET 4	TOTAL 4
SHEET P.12	TOTAL 12