



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

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October 22, 2020

NOTICE TO ALL CONTRACTORS:

Proposal #19: 3839-03-73, WISC 2020 540
Various Bridge Locations
USH 12
USH 12
Walworth County

Letting of November 10, 2020

This is Addendum No. 01, which provides for the following:

Plan Sheets:

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
369A-369I	Structure B-64-0019

Deleted Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
369	Incorrect Structure Plan Inserted

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Added: 369A – 369I

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

STATE PROJECT NUMBER
3839-03-73

LIST OF DRAWINGS

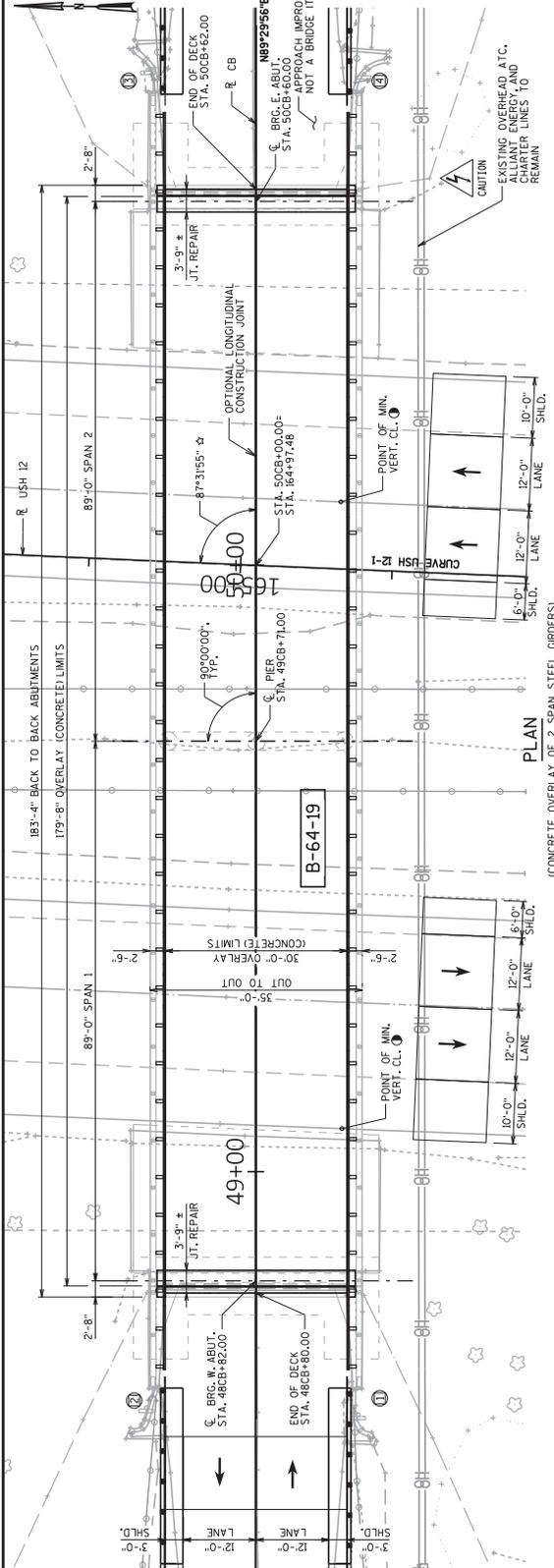
1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION GENERAL NOTES & QUANTITIES
3. TYPICAL SECTION GENERAL NOTES & QUANTITIES
4. EXPANSION JOINT REINFORCEMENT
5. EXPANSION JOINT REINFORCEMENT
6. JOINT REINFORCEMENT
7. BUILDING DETAILS
8. GALVANIC ANODES

BRG. E. ABUT.
STA. 486B+82.00

BRG. E. ABUT.
STA. 506B+62.00

BRG. E. ABUT.
STA. 496B+71.00

BRG. E. ABUT.
STA. 486B+80.00



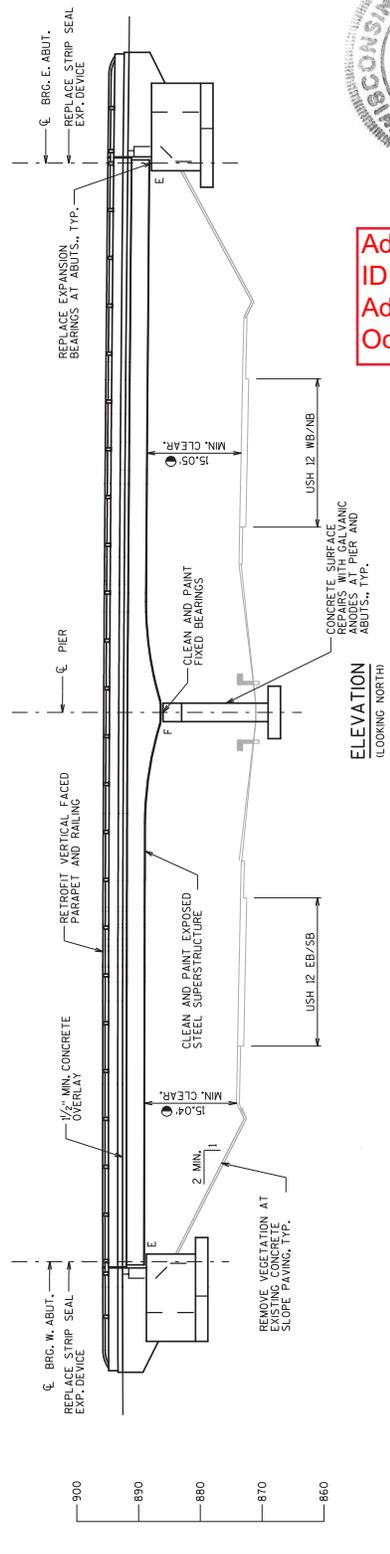
LEGEND

TRAFFIC DIRECTION

WING NUMBER

ANGLE MEASURED FROM LINE TANGENT TO U.S.H. 12 AT R.C.T.H. B

LOCATION AND CLEARANCE DIMENSION TAKEN FROM INSPECTION REPORT DATED 5-25-2017



HORIZONTAL CURVE DATA

CURVE U.S.H. 12-1

P.L. = 165+80.13

Δ = 2° 59' 51" R

D = 600.14'

L = 1,200.00'

E.C. = 253.39'

P.C. = 171+79.39'

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HS20

PERMISSIBLE STRESS DESIGN STANDARD PERMIT VEHICLE (WIS-SPV) = 130 KIPS

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 130 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY: OVERLAY DECKS..... f_c = 4,000 psi

ALL OTHER..... f_c = 3,500 psi

BAR STEEL REINFORCEMENT..... f_y = 60,000 psi

TRAFFIC DATA

CTH B

EXISTING A.D.T. = 1,700 (2018)

FUTURE A.D.T. = 2,100 (2040)

R.D.S. = 70 M.P.H.

U.S.H. 12

EXISTING A.D.T. = 0.650 (2018)

FUTURE A.D.T. = 0.800 (2040)

R.D.S. = 70 M.P.H.

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB (644) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED: CHIEF STRUCTURES DESIGN ENGINEER DATE: 09/14/20

STRUCTURE B-64-19

COUNTY: WALWORTH TOWN: BLOOMFIELD

DESIGN SPEC.: CTH B OVER U.S.H. 12

REHABILITATION N/A

DESIGNED BY: P.J.C. BY: P.J.C. H.O.A. (C.D.) E.A.U.

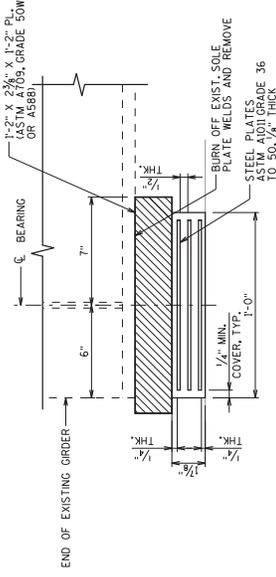
GENERAL PLAN & ELEVATION

SHEET 1 OF 9

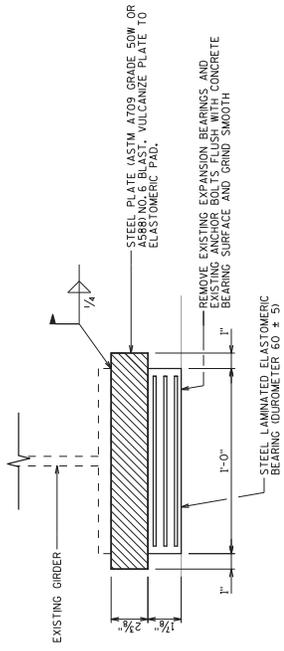
369A



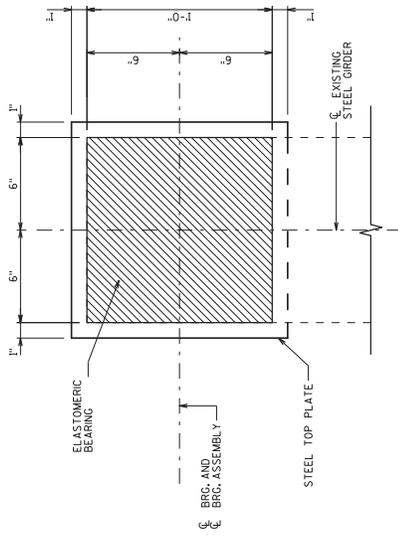
Addendum No. 01
ID 3839-03-73
Added Sheet 369A
October 22, 2020



SECTION THRU ABUTMENT BEARING



FRONT ELEVATION



PLAN VIEW

NOTES

- BEARINGS SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 85 F.
- ALL MATERIAL USED FOR BEARINGS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED", EACH.
- ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.
- ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
- GRIND EXIST. WELD THAT ATTACHED EXIST. TOP PLATE TO EXIST. BOTTOM FLANGE. GRIND AFFECTED AREAS SMOOTH.

Addendum No. 01
ID 3839-03-73
Added Sheet 369C
October 22, 2020

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-19			
DESIGNED BY	HDA	CHECKED BY	MSS
EXPANSION BEARINGS			SHEET 3 OF 9
EXPANSION BEARINGS			369C

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PLOT NAME : #FILE#

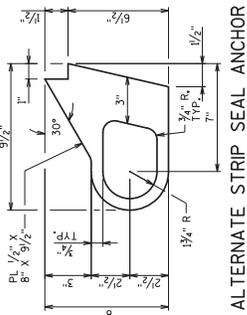
PLOT BY : JPepperon

PLOT DATE : 1/27/2020 5:16:52 PM

FILE NAME : \\nrlw001\proj\proj\A68977\B1\B-64-19\cads\B19_0865011.brg.dgn

EXPANSION JOINT NOTES

ONE FIELD SPICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING. NO SPlicing PERMITTED IN NEOPRENE STRIP SEAL. NEOPRENE STRIP SEAL SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SKEW. AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS FABRICATORS SHALL PROVIDE METHOD OF REMOVING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH FORMING SURFACES AND PREPARE TO APPLY LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION. SANDBLAST PLATES, SUPPORTS, & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. 6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE TUBES, PAID FOR AT THE LINEAR FOOT PRICE BID FOR EXPANSION JOINT.



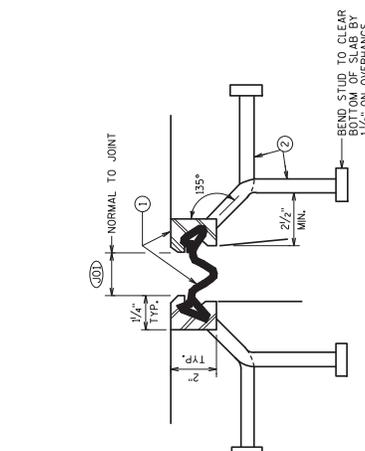
ALTERNATE STRIP SEAL ANCHOR

LEGEND

- ① NEOPRENE STRIP SEAL 14 - INCH & STEEL EXTRUSIONS.
- ② STUDS 5/8" DIA. X 6 3/4" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ③ 1/2" THICK ANCHOR PLATE WITH 5/8" DIA. ROD OR ALTERNATE STRIP SEAL ANCHOR, WELD ROD TO ANCHOR PLATE, WELD ANCHOR PL. TO NO. 1 AT 1'-6" CENTERS BETWEEN GRIDDERS.
- ④ 3/4" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS, WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE.
- ⑤ 3/4" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS, GROUT THREADED ROD INTO FIELD DRILLED HOLE IN ABUTMENT BACKWALL AS SHOWN.
- ⑥ 3/4" DIA. THREADED ROD WITH NUT, TACK WELD NUT TO NO. 5.
- ⑦ FABRICATE SUPPORT FROM 3/4" X 1/4" BAR AS SHOWN OR EQUIVALENT, ONE PER GRIDER PER SIDE. SHOP OR FIELD WELD TO NO. 1 FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL, PROVIDE 1 1/2" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
- ⑧ SET JOINT OPENING AT 1 3/4".
- ⑨ EXISTING BARS ARE LIKELY TO BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL. PRESERVE AND INCORPORATE AS MUCH REBAR AS PRACTICAL. SUPPLEMENT WITH THE BARS INDICATED BY ⑩.
- ⑩ ADHESIVE ANCHORS, NO. 5 BARS, EMBED A MINIMUM OF 1'-0" INTO CONCRETE, SPACE AT 1'-0" MAX. AND AVOID EXPANSION JOINT HARDWARE. TURN 90° LEG AS NECESSARY TO FIT. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- ⑪ BARS PLACED PARALLEL TO GRIDDERS. SPACING PERPENDICULAR TO C. OF GRIDDERS.

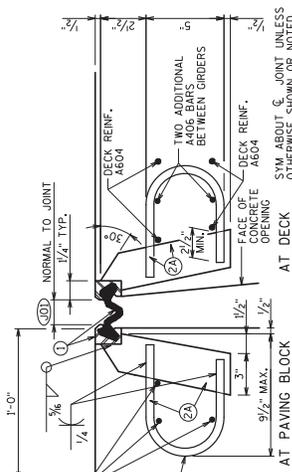
NOTES

REFER TO "EXPANSION JOINT REINFORCEMENT" AND "BRUSH CURB REINFORCEMENT" SHEETS FOR ADDITIONAL INFORMATION AND DETAILS.



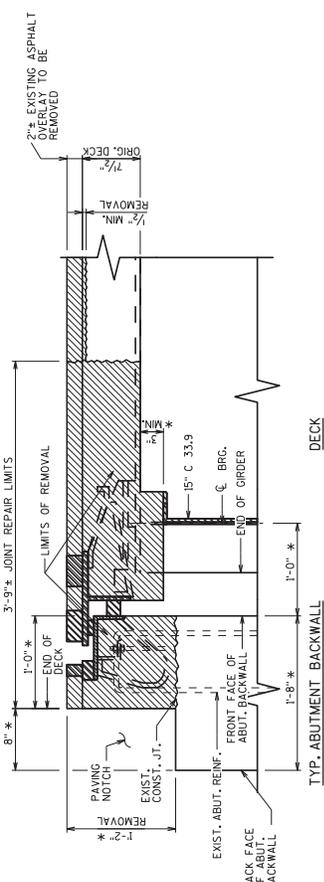
SECTION THRU JOINT

EXTERIOR GRIDER TO EDGE OF DECK AND AT BRUSH CURB



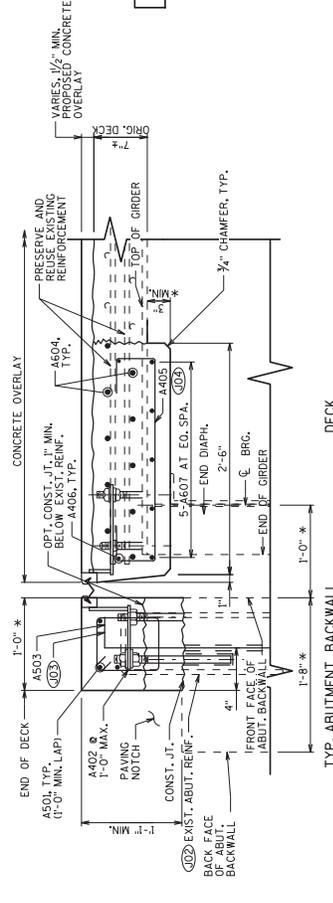
SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GRIDDERS



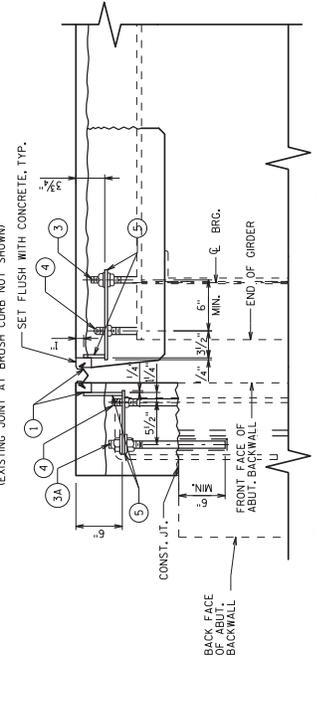
EXISTING SECTION AT ABUTMENTS BETWEEN CURBS

DIMENSIONS TAKEN NORMAL TO C. SUBSTRUCTURE
* DIMENSIONS SHOWN MATCH EXISTING PLANS
(EXISTING JOINT AT BRUSH CURB NOT SHOWN)



PROPOSED SECTION AT ABUTMENTS BETWEEN CURBS (REINF. DETAILS)

DIMENSIONS TAKEN NORMAL TO C. SUBSTRUCTURE
* DIMENSIONS SHOWN MATCH EXISTING PLANS
(EXISTING JOINT AT BRUSH CURB NOT SHOWN)



PROPOSED SECTION AT ABUTMENTS BETWEEN CURBS (EXPANSION DEVICE COMPONENTS)

DIMENSIONS TAKEN NORMAL TO C. SUBSTRUCTURE
* DIMENSIONS SHOWN MATCH EXISTING PLANS
(PROPOSED JOINT AT BRUSH CURB NOT SHOWN)

Addendum No. 01
ID 3839-03-73
Added Sheet 369D
October 22, 2020

STRUCTURE B-64-19
EXPANSION DEVICE

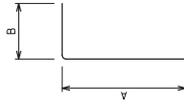
SHEET 4 OF 9
369D

STATE PROJECT NUMBER
3839-03-73

BILL OF BARS

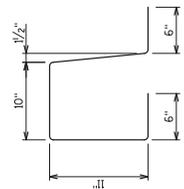
NOTE:
BILL OF BARS IS FOR BOTH ABUTMENTS.

BAR MARK	NO. RECD.	LENGTH	SERIES	LOCATION
A501	30	6'-9"	X	PAVING BLOCK - HORIZ
A502	60	5'-0"	X	PAVING BLOCK - STIRRUP
A503	60	2'-7"	X	PAVING BLOCK - ANCHOR
A604	20	32'-2"	X	DECK - TRANSVERSE
A405	72	3'-5"	X	DIAPH. - STIRRUP
A406	24	9'-0"	X	DIAPH. - HORIZ. BTWN. GIRDERS
A607	30	9'-0"	X	DIAPH. - HORIZ. BTWN. GIRDERS
- - -				
- - -				
A510	24	3'-2"	X	CURB - STIRRUP
A511	16	2'-5"	X	CURB - VERTICAL

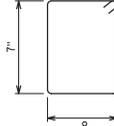


A503, A511

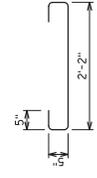
MARK	A	B
A503	1'-10"	10"
A511	1'-4"	1'-2"



A510



A402



A405

LEGEND

(AD) ADHESIVE ANCHORS, NO. 5 BARS

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ID 3839-03-73
Added Sheet 369G
October 22, 2020

NO. DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-64-19		
DRAWN JTE	CHECKED HDA	
SHEET 7 OF 9		369G
BILL OF BARS		

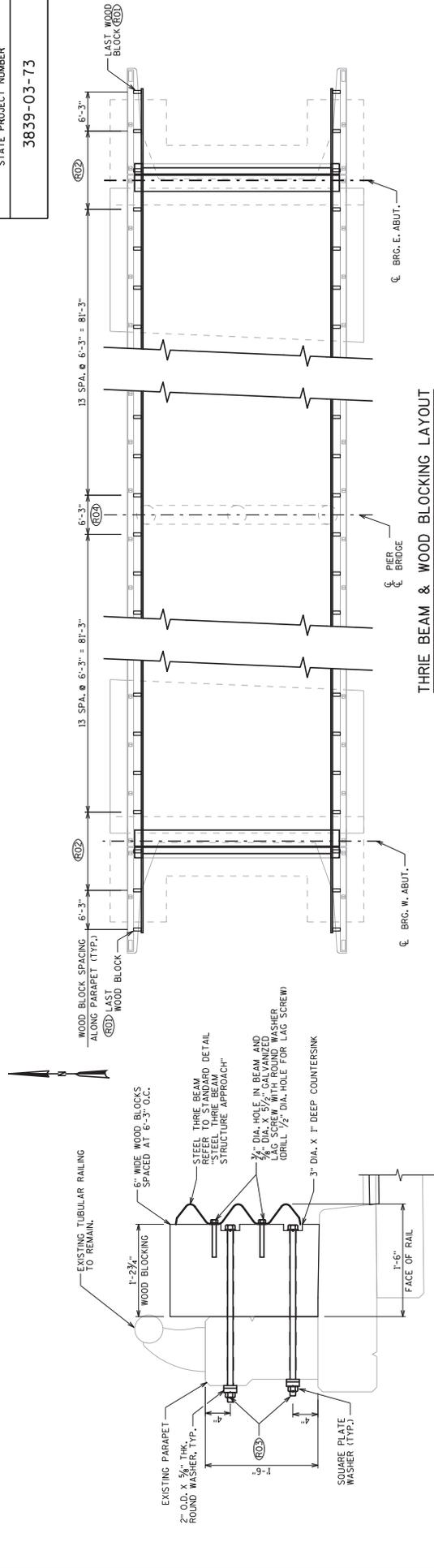
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PLOT BY : JTepperson

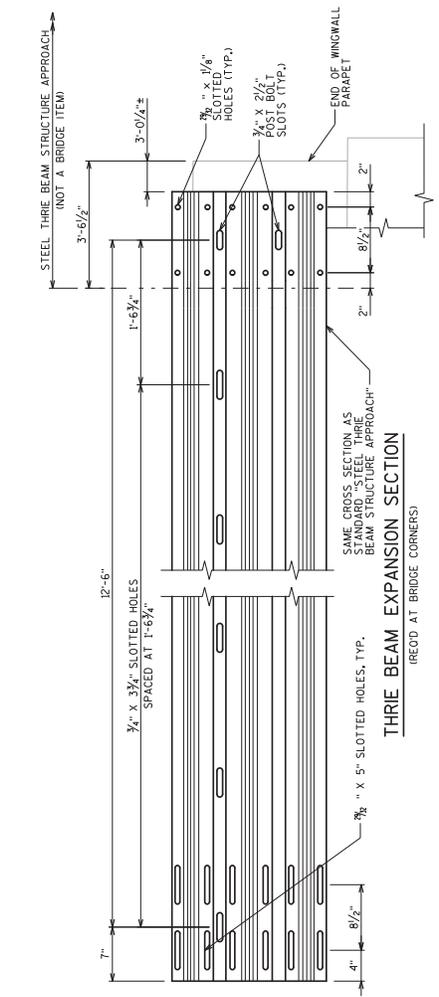
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FILE NAME : \\nrlw001\proj\proj\68977\B1\B-64-19\cds\B19_086505_bar.dgn



THREE BEAM & WOOD BLOCKING LAYOUT

SECTION THRU PARAPET RAILING



THREE BEAM EXPANSION SECTION

(REOD AT BRIDGE CORNERS)

NOTES

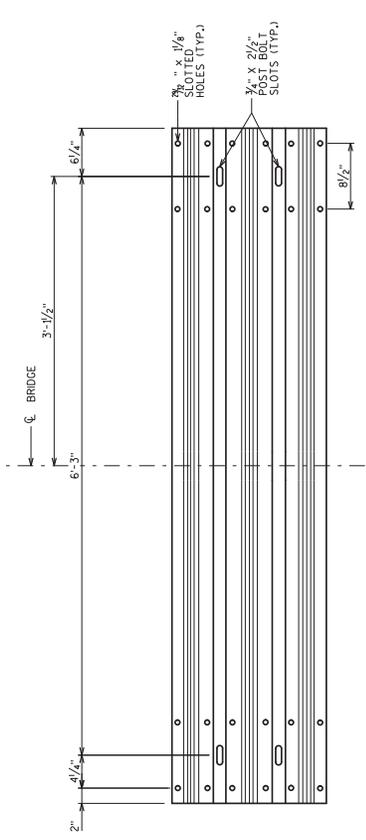
SEE SDD 14 B 20-11A FOR ADDITIONAL STEEL THREE BEAM DETAILS.
INSTALL RAIL WITH CAP SPLICES IN DIRECTION OF TRAFFIC. FIELD VERIFY BOLT LENGTH AND THREADED LENGTH.

LEGEND

- (REOD) SPLICE TO STEEL THREE BEAM STRUCTURE APPROACH. SEE ROADWAY PLANS FOR DETAILS.
- (REOD) THREE BEAM EXPANSION SECTION TO BE USED. SEE DETAIL THIS SHEET.
- (REOD) DRILL 1" DIA. HOLE IN WOOD BLOCKING AND BRIDGE RAILING. 3/4" DIA. THREADED BOLTS WITH ROUND WASHERS (2" O.D. X 5/8" THK.) UNDER WELDED NUTS AND SQUARE WASHERS PLACED AGAINST CONCRETE. ONE ROUND WASHER UNDER BOLT HEAD.

THREE BEAM SECTION AT STRUCTURE CENTER

(REOD) OPTIONAL SPLICE LAYOUT AT BRIDGE CENTER, SEE PLAN VIEW ABOVE



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-19			
DRAWN: JTE CHECKED: HDA			
RAILING DETAILS			SHEET 8 OF 9
			369H

Addendum No. 01
ID 3839-03-73
Added Sheet 369H
October 22, 2020

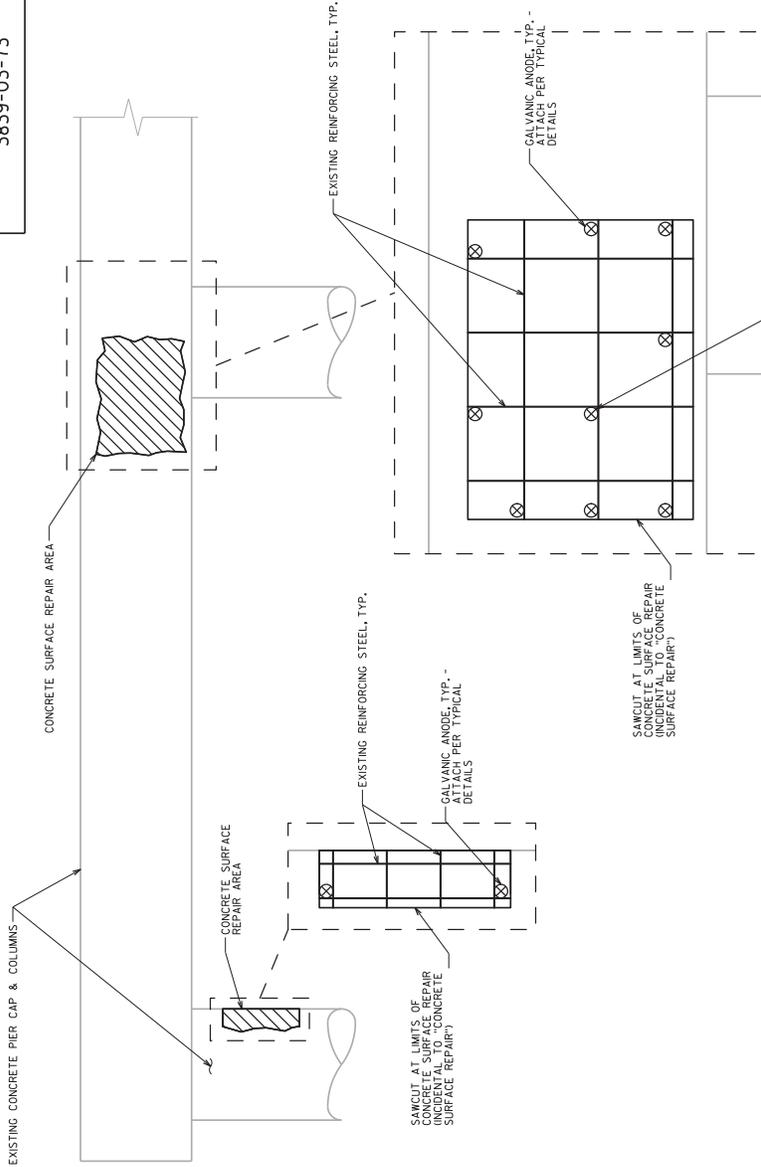
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PLOT NAME : #FILES

PLOT BY : JTepperson

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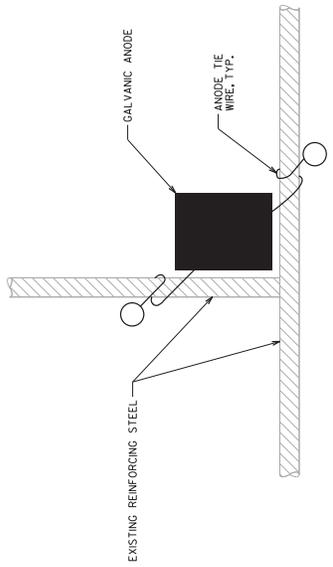


TYPICAL SUBSTRUCTURE REPAIR DETAIL

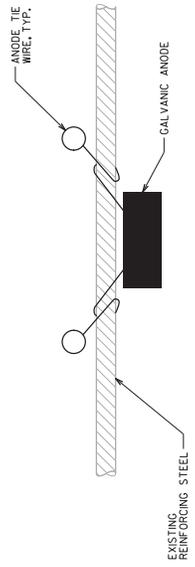
PIER SHOWN, ABUTMENT SIMILAR. SUPERSTRUCTURE OMITTED FOR CLARITY. VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

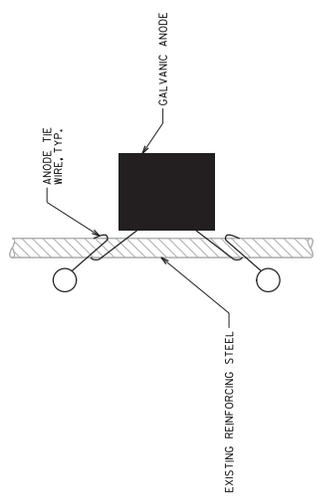
- SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR SPECIAL MATERIALS, CONSTRUCTION, MEASUREMENT AND PAYMENT INFORMATION.
- EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL PRIOR TO INSTALLATION OF GALVANIC ANODES.
- LOCATIONS OF GALVANIC ANODES SHOULD BE WITHIN 6" OF THE EDGE OF THE REPAIR AREA.
- AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1/2" AND A MINIMUM BOTTOM COVER OF 3/4".
- PROVIDE GALVANIC ANODES IN CONCRETE SURFACE REPAIR AREAS IN SUBSTRUCTURE ONLY.
- ESTIMATED ANODE QUANTITY ON PLANS IS BASED ON A MAXIMUM SPACING OF 24" AROUND PERIMETER OF CONCRETE SURFACE REPAIR AREA. ANODE QUANTITY SHOULD BE ADJUSTED TO MAINTAIN AN AVERAGE 50% CENTER-TO-CENTER SPACING OF ANODES IS NOT GREATER THAN 24" IN ANY DIRECTION.



TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



TYPICAL INSTALLATION BELOW BAR STEEL (HORIZONTAL)



TYPICAL INSTALLATION BESIDE BAR STEEL (VERTICAL)

Addendum No. 01
ID 3839-03-73
Added Sheet 3691
October 22, 2020

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-19			
DRAWN		CHECKED	
JTE		HDA	
SHEET 9 OF 9			3691
GALVANIC ANODES			