

| INDEX | |
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| SHEET NO | SUBJECT |
| 1 | INDEX AND SUMMARY OF QUANTITIES |
| 2 | STEEL REPAIR DETAILS |

| SUMMARY OF BRIDGE QUANTITIES | | | |
|------------------------------|-----------------------------|------|----------|
| PAY ITEM | SUBJECT | UNIT | QUANTITY |
| 619-11050 | CLEAN STEEL BRIDGE, PARTIAL | LS | 1 |
| 619-51860 | COAT STEEL BRIDGE, PARTIAL | LS | 1 |
| 711-51038 | STRUCTURAL STEEL | LS | 1 |
| 729-11819 | STRAIGHTEN STEEL MEMBER | LS | 1 |
| 801-06775 | MAINTAINING TRAFFIC | LS | 1 |

| GENERAL NOTES |
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| REPAIRS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THESE PLANS, THE INDIANA DEPARTMENTS OF TRANSPORTATION STANDARD SPECIFICATIONS, ITR CONCESSION COMPANY LLC (ITR CONCESSION COMPANY, LLC.) REQUIREMENTS AND ANY SPECIAL PROVISIONS. |
| UNLESS OTHERWISE NOTED, ANY REFERENCE TO INDOT OR THE DEPARTMENT IN THE CONTRACT DOCUMENTS SHALL MEAN THE ITR CONCESSION COMPANY, LLC, ANY REFERENCE TO THE ENGINEER SHALL MEAN THE ITR CONCESSION COMPANY, LLC. INFRASTRUCTURE MANAGER OR HIS REPRESENTATIVE. |
| CONTRACTOR SHALL MAKE A THOROUGH INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS SO THAT WORK CAN BE EXPEDITIOUSLY PERFORMED AFTER A CONTRACT IS AWARDED. SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE OF THIS INSPECTION HAVING BEEN MADE. |
| PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE FOR THE WORK. REFERENCE PLANS FOR EXISTING STRUCTURE IS AVAILABLE FROM THE ITR CONCESSION COMPANY, LLC. |
| CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL PARTS AND MATERIALS NECESSARY TO COMPLETE THE REPAIR INDICATED HEREIN. CONTRACTOR SHALL ALSO PROVIDE ANY TOOLS, EQUIPMENT AND MACHINERY AS NECESSARY TO COMPLETE THE REPAIRS INDICATED HEREIN. ALL COSTS NECESSARY TO COMPLETE THE WORK DESCRIBED BY THE PAY ITEMS, BUT NOT SPECIFICALLY LISTED IN THE PAY ITEMS, ARE CONSIDERED TO BE INCLUDED IN THE PAY ITEMS. |
| FOR WORK REQUIRING MAINTENANCE OF TRAFFIC ON THE EAST-WEST TOLL ROAD, AT ALL ENTRY AND EXIT RAMP AND LOCAL ROADS/STREETS WITHIN THE LIMITS OF THE CONTRACT, THE CONTRACTOR SHALL OPERATE IN ACCORDANCE WITH THE DRAWINGS UNDER THE LANE CLOSURE RESTRICTIONS, POLICIES AND PROCEDURES GOVERNED BY THE ITR CONCESSION COMPANY, LLC. LANE CLOSURE POLICY PROCEDURE IM 1161 REV. 1 OR MOST RECENT, WITH TRAFFIC CONTROL PROVIDED IN ACCORDANCE WITH PART 6 OF THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE OF PAY ITEM NO. 801-06775 MAINTAINING TRAFFIC. |
| PREVENT DAMAGE TO THE EXISTING STRUCTURE WHILE GAINING ACCESS AND PERFORMING THE WORK. REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE ITR CONCESSION COMPANY, LLC. ANY REMAINING COMPONENTS DAMAGED BY THE REPAIR OPERATIONS. |
| STRUCTURAL STEEL REPAIRS SHOWN IN THE PLANS ARE TO MEET REQUIREMENTS OF SECTION 711. ALL LABOR AND EQUIPMENT REQUIRED TO REMOVE AND DISPOSE OF EXISTING STRUCTURAL STEEL MEMBERS TO BE INCLUDED IN THE COST OF STRUCTURAL STEEL. |
| WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND REPORT BACK TO THE ENGINEER ANY ERRORS OR DISCREPANCIES AND ASSUME RESPONSIBILITY FOR THEIR CORRECTNESS AND FIT OF THE NEW PART TO THE OLD PART. |
| CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION PLAN AND A PLAN FOR METHOD OF PROTECTION OF TRAFFIC BELOW IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. |
| CLEAN AND PAINT TO MATCH EXISTING ON AREAS AFFECTED AND ON ANY NEW MEMBERS ON HEAT STRAIGHTENING PROJECT. |
| STRUCTURAL STEEL SHALL BE ASTM A709/AASHTO M270 GR36 AND CONNECTORS SHALL BE ASTM F3125 GRADE A325 UNLESS OTHERWISE NOTED. |
| CONTRACTOR SHALL PROVIDE AS-BUILT PLANS. |
| THE EXISTING MINIMUM VERTICAL CLEARANCE WARNING SIGN SHOWS 14'-2". THE BOLT HEADS OF THE PROPOSED BOLTED STRENGTHENING REPAIR WILL EXTEND BELOW THE EXISTING BOTTOM FLANGE BY LESS THAN 1". THEREFORE, THE PROPOSED MINIMUM VERTICAL CLEARANCE WILL BE REDUCED TO 14'-1" IF THE CURRENT POINT OF MINIMUM VERTICAL CLEARANCE IS WITHIN THE LIMITS OF THE PROPOSED REPAIR. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL CLEARANCE AT THE PROPOSED REPAIR AND PROVIDE THIS VALUE ON THE AS-BUILT PLANS. |

DESIGN DATA

DESIGN LOADINGS
REPAIRS ARE DESIGNED TO MEET EXISTING CAPACITY

DESIGN METHOD
AASHTO 10TH EDITION, LRFD

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| SCALE | BRIDGE FILE |
| | 190-46-020-3 WBL |
| | DESIGNATION |
| | |
| DRAWING | SHEETS |
| 1 of 2 | of |
| CONTRACT | PROJECT |
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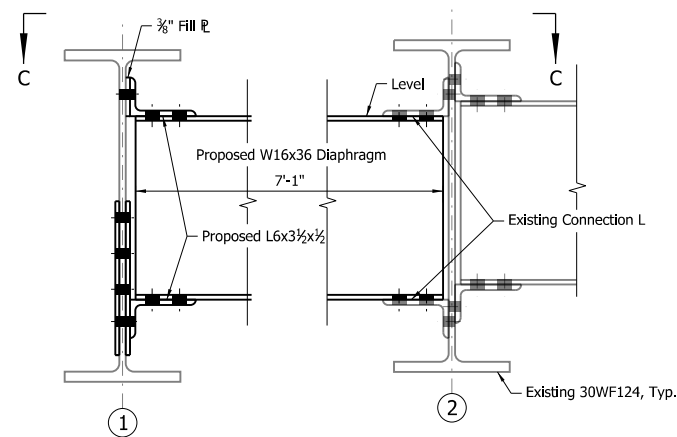
CiorbaGroup
115 S. Court St, Ste. E, Crown Point, IN 46307
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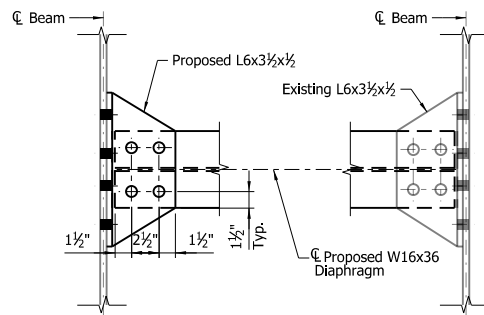
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|--------------------------|--|--------------------|
| RECOMMENDED FOR APPROVAL |  DESIGN ENGINEER | 01-21-2025 DATE |
| DESIGNED: JMK | DRAWN: EJW | |
| CHECKED: APD | CHECKED: JMK | |



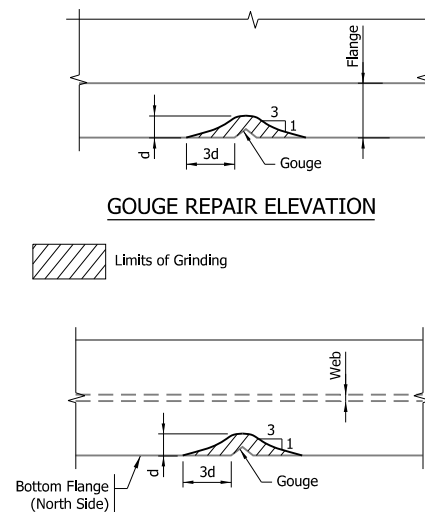
I-90 OVER S. RTE. 39 BRIDGE REPAIRS
190-46-020-3 WBL
INDEX AND SUMMARY OF QUANTITIES



DIAPHRAGM REPLACEMENT ELEVATION

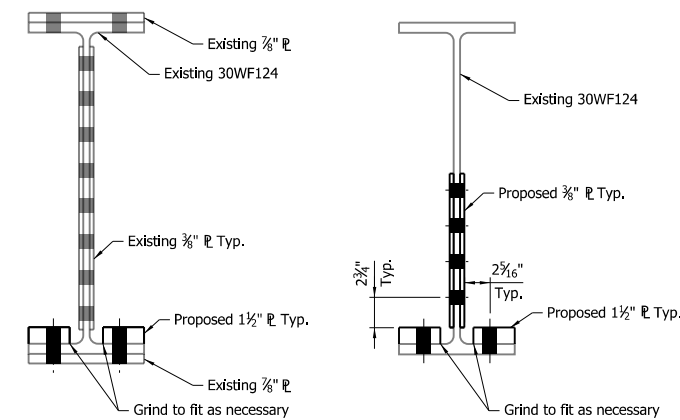


SECTION C-C



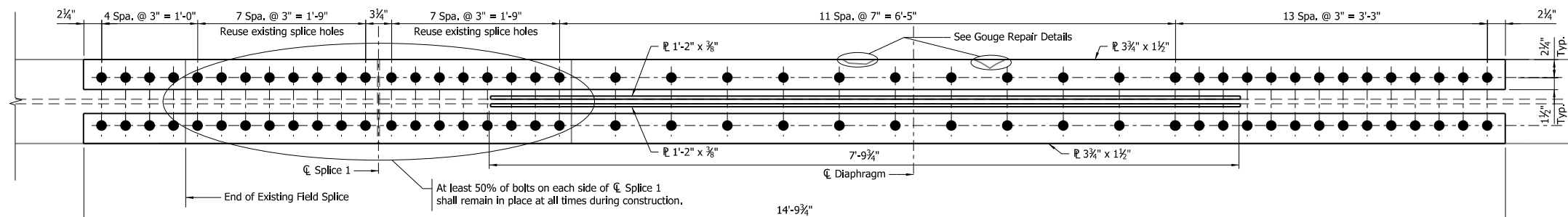
GOUGE REPAIR ELEVATION

GOUGE REPAIR PLAN

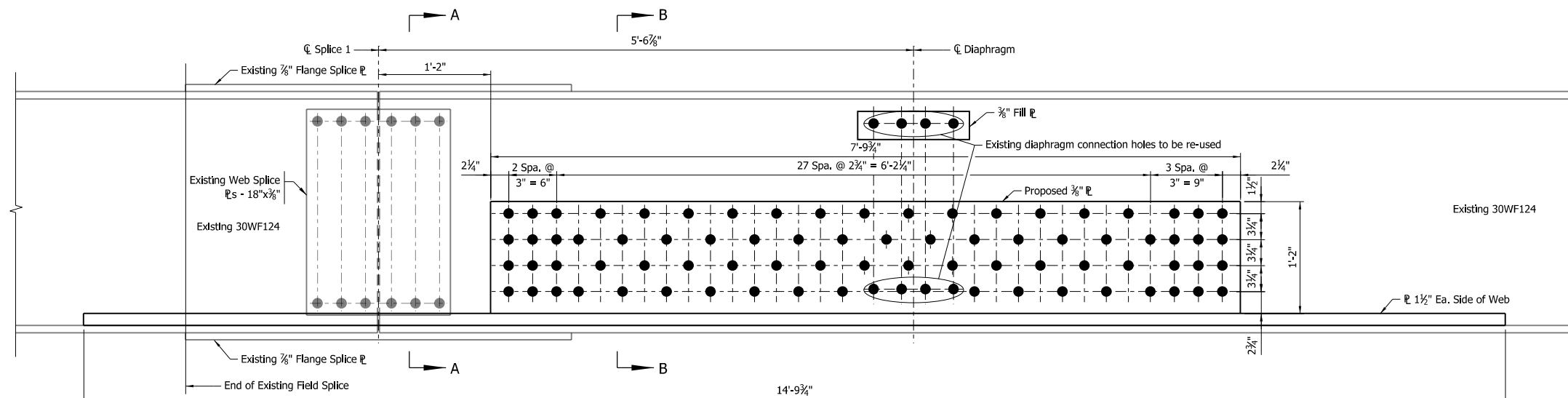


SECTION A-A

SECTION B-B



BOLTED STRENGTHENING REPAIR PLAN



BOLTED STRENGTHENING REPAIR ELEVATION

NOTES:

- Contractor shall field verify all dimensions and geometry of the existing structure before steel fabrication.
- Existing bolt holes are 1 1/2\"/>

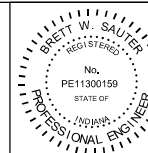
CONSTRUCTION SEQUENCE:

- Close the lane of I-90 WB traffic carried by Beam 1.
- Unbolt and remove the existing diaphragm between Beam 1 and Beam 2 as indicated on the Framing Plan.
- Heat straighten Beam 1.
- Grind smooth the gouged areas of Beam 1.
- Install one bolted flange strengthening plate. Use plates as templates for drilling holes in existing beam. At least 50% of bolts on each side of C Splice 1 shall remain in place at all times during construction.
- After one bolted flange strengthening plate is installed with all bolts tightened, install the other bolted flange strengthening plate. Use plates as templates for drilling holes in existing beam.
- Install bolted web strengthening plates after bolted flange strengthening has been completed.
- Install new diaphragm and associated connections.

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|--------------------------|---------------------|-----------------|------------|------|
| RECOMMENDED FOR APPROVAL | <i>Brett Sauter</i> | DESIGN ENGINEER | 01-21-2025 | DATE |
| DESIGNED: | JMK | DRAWN: | EJW | |
| CHECKED: | APD | CHECKED: | JMK | |

indiana TOLL ROAD
I-90 OVER S. RTE. 39 BRIDGE REPAIRS
I90-46-020-3 WBL
STEEL REPAIR DETAILS

| | |
|----------|------------------|
| SCALE | BRIDGE FILE |
| | I90-46-020-3 WBL |
| | DESIGNATION |
| DRAWING | SHEETS |
| 2 of 2 | of |
| CONTRACT | PROJECT |

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