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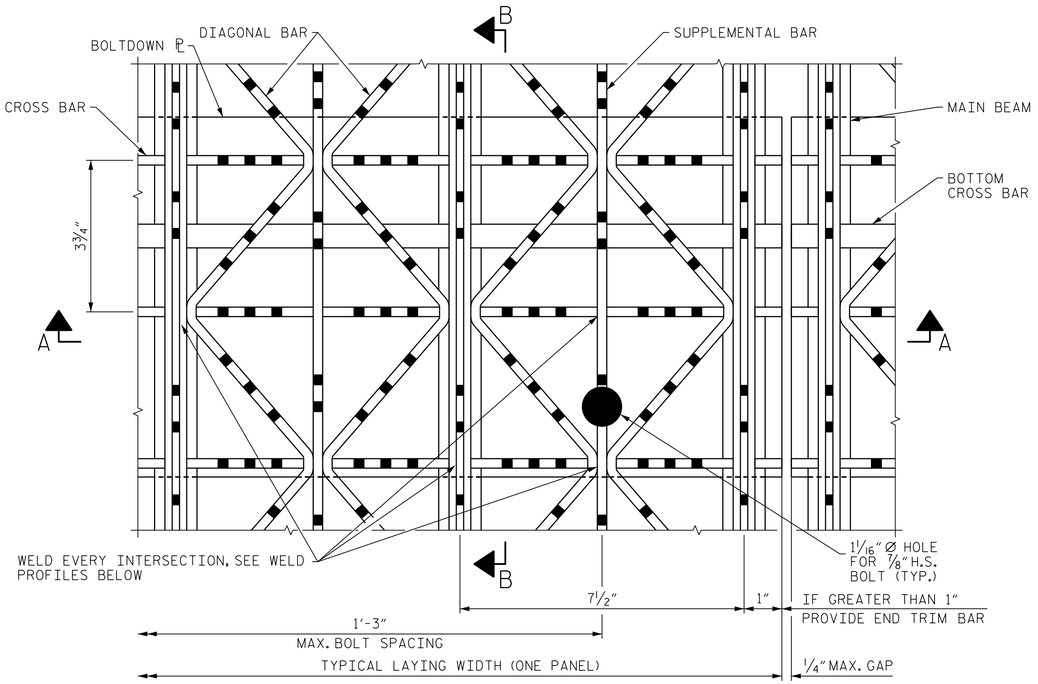
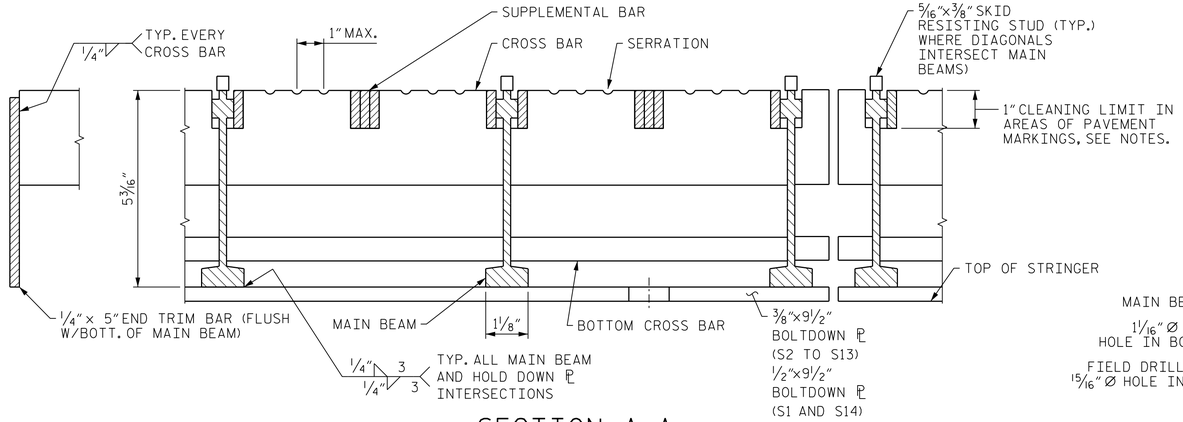
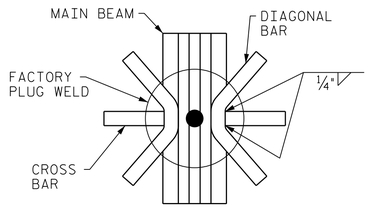


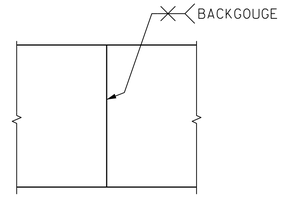


SECTION A-A



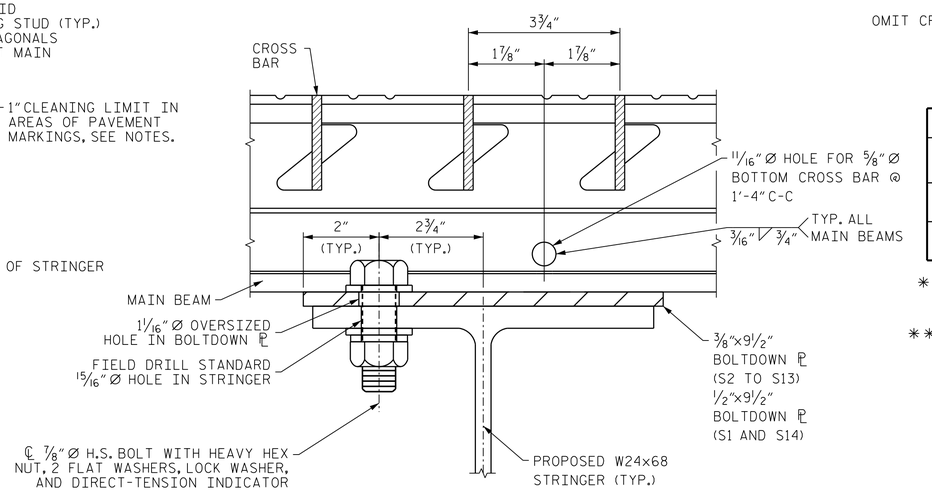
TYP. DIAG. BAR SPLICE

(WHERE REQ'D.)



TYP. SHOP TRIM SPLICE

(WHERE REQ'D.)



SECTION B-B

WELDING PROCESS

ALL WELDING TO BE DONE IN ACCORDANCE WITH AASHTO BRIDGE SPEC. AWS D1.5 LATEST VERSION.

MATERIAL SPECIFICATIONS

MAIN BEAM (5.3#/FT.) TO BE A.S.T.M. A588
CROSS BARS (¼" x 2½") TO BE A.S.T.M. A588
DIAGONAL BARS (¼" x 1") TO BE A.S.T.M. A588
SUPPLEMENTAL BARS (¼" x 1") TO BE A.S.T.M. A588
BOTTOM CROSS BARS (⅝" Ø) TO BE A.S.T.M. A588
BOLTDOWN PLATES (⅜"x9½", 1"x9½" AND ½"x9½") TO BE A.S.T.M. A588 OR APPROVED EQUAL

FINISH SPECIFICATIONS

AFTER ATTACHING BOLTDOWN PLATE, GRID DECK SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 PER NCDOT STANDARD SPECIFICATIONS.

NOTES:

CONTRACTOR MAY REQUEST TO MAKE MINOR CHANGES FOR PRODUCT IMPROVEMENT.

ALL MATERIAL SUBJECT TO MILL/SHOP TOLERANCES.

SERRATIONS TO BE APPROXIMATELY 3/16" DEEP BY ⅜" WIDE ON RANDOM CENTERS, 1" MAX. C-C SPACING.

PROVIDE END TRIM BAR AT ALL MAIN BEAM ENDS.

VERTICAL FACES OF TRANSVERSE BARS SHALL BE CLEANED IN AREAS TO RECEIVE PAVEMENT MARKINGS (PAINT LINES). CLEANING SHALL EXTEND 1" BELOW TOP OF GRID.

FOR PAVEMENT MARKINGS, SEE PAVEMENT MARKING PLANS.

FOR BOLT, WASHER, AND NUT DETAILS SEE SHEET 3 OF 3.

OMIT CROSS BARS AT BOLT LOCATIONS.

GRID DECK PROPERTIES		
SECTION MODULUS * (IN^3 / FT)		APPROX. GRID WEIGHT (LBS / SF) **
TOP STEEL	BOTTOM STEEL	20.0
4.038	4.321	

* SECTION MODULUS BASED ON 50% OF DIAGONAL BARS ACTIVE.

** THE GRID WEIGHT IS BASED ON AN UNCOATED GRID. ACTUAL WEIGHTS MAY VARY DUE TO COATING WEIGHT AND DECK ATTACHMENTS. GRID DECK WEIGHT SHOWN DOES NOT INCLUDE BOLTDOWN PLATES.

PROJECT NO. 15BPR.102.3
NEW HANOVER COUNTY
BRIDGE NO. 640013

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

OPEN GRID DECK

MODJESKI and MASTERS
Experience great bridges.
333 FAYETTEVILLE STREET, SUITE 500
RALEIGH, NC 27601
NC LICENSE NO. C-2979

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

9/11/2023
NORTH CAROLINA PROFESSIONAL SEAL 038654 ENGINEER BRYAN J. LOFLIN
DocuSigned by:
9697SAE68AD44DB...

DESIGNED BY:	C. CORMAN	DATE : JUL 2023
DRAWN BY:	R. JOHNSON	DATE : JUL 2023
CHECKED BY:	M. NIFONG	DATE : AUG 2023
DESIGN ENGINEER OF RECORD:	B. LOFLIN	DATE : SEP 2023

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			21

9/11/2023
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