GENERAL NOTES

SPECIFICATIONS:

1. THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY AASHTO, 2014, 7TH EDITION INCLUDING THE 2016 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED 2016 AND THE SPECIAL PROVISIONS.

2. THE ANSI/AASHTO/AWS (CURRENT EDITION) BRIDGE WELDING CODE.

MATERIAL SPECIFICATIONS:

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50W.
- 2. STRUCTURAL STEEL NOTED CVN INDICATES MATERIAL WHICH IS SUBJECT TO CHARPY V-NOTCH TESTING PER 711.01 OF STATE OF OHIO CMS.
- 3. HIGH STRENGTH BOLTS:

-HIGH STRENGTH BOLTS SHALL BE ASTM A325 TYPE 3 WITH ONE ASTM A563 TYPE 3 HEAVY HEX NUT AND TWO F436-3 HARDENED WASHERS. ALL TO BE WEATHERING HARDWARE.

- -ALL HIGH STRENGTH BOLTS SHALL BE ROTATIONAL CAPACITY TESTED PRIOR TO USE. DO NOT MIX NUTS AND BOLTS FROM DIFFERENT LOTS.
- 4. SHOP CLEANING AND PAINTING OF STRUCTURAL STEEL TO BE IN ACCORDANCE WITH ODOT CMS 514
 - * SOLVENT CLEAN PER SSPC-SP 1/ SHOP BLAST CLEAN PER SSPC-SP 6
 * MATERIAL IS TO BE SHIPPED UNCOATED.

FABRICATION:

- 1. ALL FIELD INSTALLED (BY THE CONTRACTOR) HIGH STRENGTH BOLTS SHALL BE PERMANENTLY INSTALLED AND TORQUED USING TURN OF THE NUT METHOD.
- 2. ALL RE-ENTRANT CUTS SHALL HAVE A MINIMUM RADIUS OF 1".
- 3. ALL FLAME CUT OR SHEARED EDGES SHALL BE DEBURRED AND BROKEN WITH A SINGLE PASS OF A GRINDER CREATING A 1/16"± RADIUS.

WELDING:

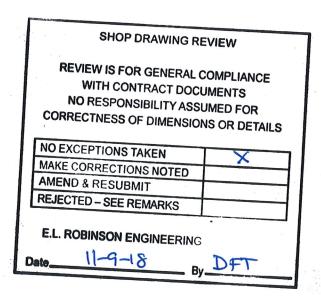
 WELDING SHALL BE IN ACCORDANCE WITH THE AASHTO/AWS D1.5-2002 BRIDGE WELDING CODE AS AMENDED BY O.D.O.T. 1011 AND SECTION 513.21 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED JANUARY 1, 2016 AND AS MODIFIED BY THE CONTRACT PLANS.

GENERAL:

- 1. FABRICATED PIECES ARE TO BE MARKED WITH THE SHIPPING MARKS ON THE LEFT END AS SHOWN ON THESE SHOP DRAWINGS. THE PIECES ARE ORIENTED IN THE FIELD WITH THE SHIPPING MARKS AT THE END AS SHOWN ON THESE SHOP DRAWINGS.
- CONTRACTOR TO APPROVE ALL INFORMATION & DIMENSIONS PRIOR TO COMMENCING FABRICATION.

DRAWING INDEX							
SHEET N	o. DWG.	NO.	DESCRIPTION				
1	GN1		GENERAL NOTES, DRAWING INDEX & HARDWARE LIST				
2	E1		SUPPORT BRACKET LOCATION PLAN				
3	D1		SUPPORT BRACKET WELDMENT 3SB1 ASSEMBLY DETAIL				
4	D2		SUPPORT BRACKET PART DETAILS & BILL OF MATERIAL				

TRABUE ROAD OVER NSRR				PID NO.: 15125	OSI PROJ. NO.: 18-25		REF NO.: 20		ITEM NO.: 513 LEVEL 5	
	HARDWARE LIST									
HARDWARE ONLY:										
LINE	PO#	QTY	MARK	DESCRIPTION	STL SPEC	WT PER (IN LBS)	NET WT (IN LBS)	HEAT #	LOCATION	
1		* 378	ff	1-1/8x2-3/4 HEX HEAD BOLT	A325 TYPE 3	1.21	· /			
2		* 378	nf	1-1/8 HEAVY HEX NUT	A563 TYPE 3	0.59	223.02			
3		* 756	wf	1-1/8 FLAT WASHER	F436 TYPE 3	0.11	79.38			
4		546	ss	7/8" DIAMETER x 6" SHEAR STUI	A108	1.15	627.90			
* INDICATES AN ITEM THAT WILL BE SHIPPED LOOSE TOTAL WT 1.387.68										





WITH PAINT ENDORSEMENT

REV. No. REVISION

CHANGED NOTE 1 UNDER SPECIFICATIONS 11/9/2018

SHOP INSPECTED BY:

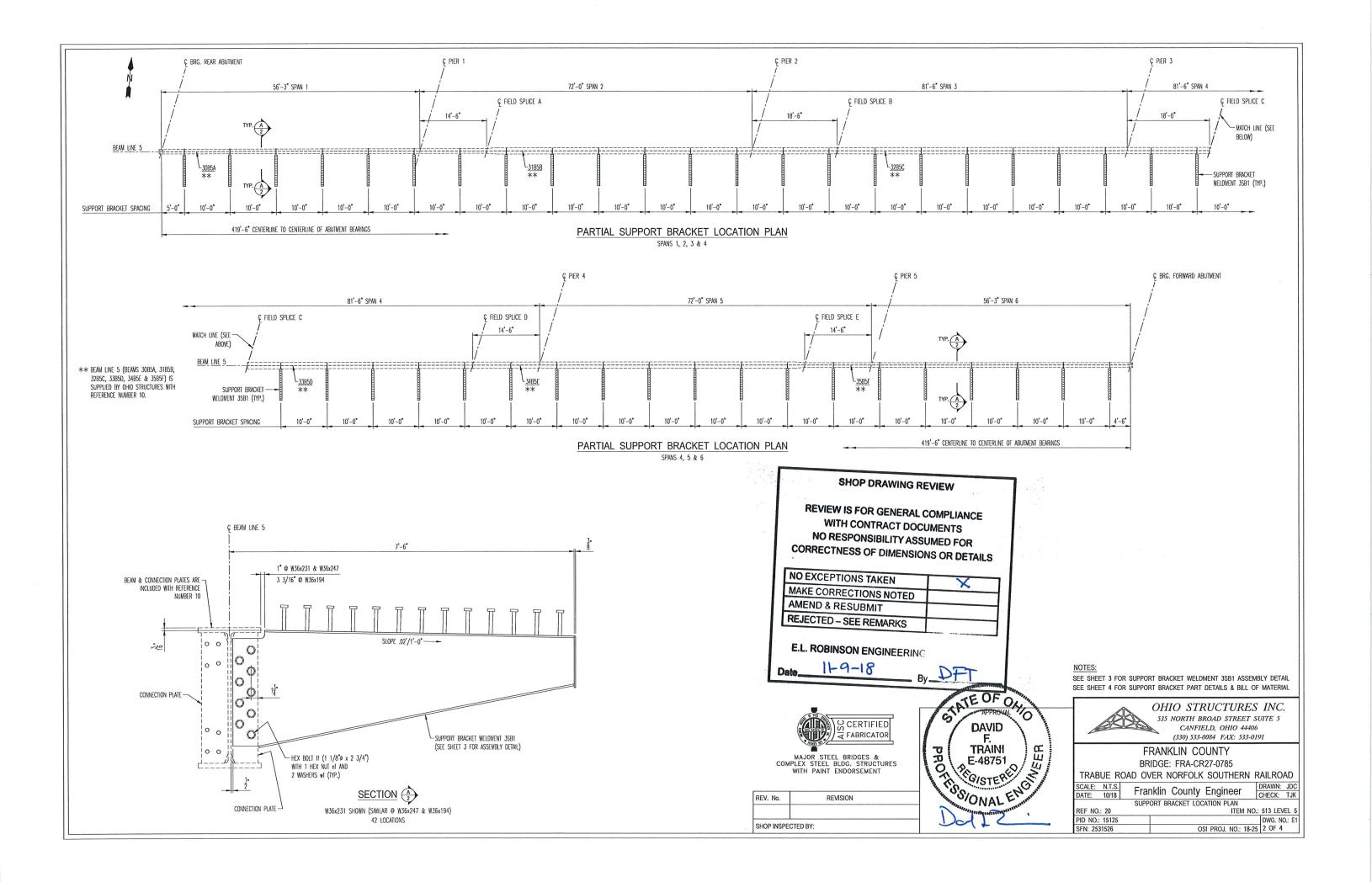


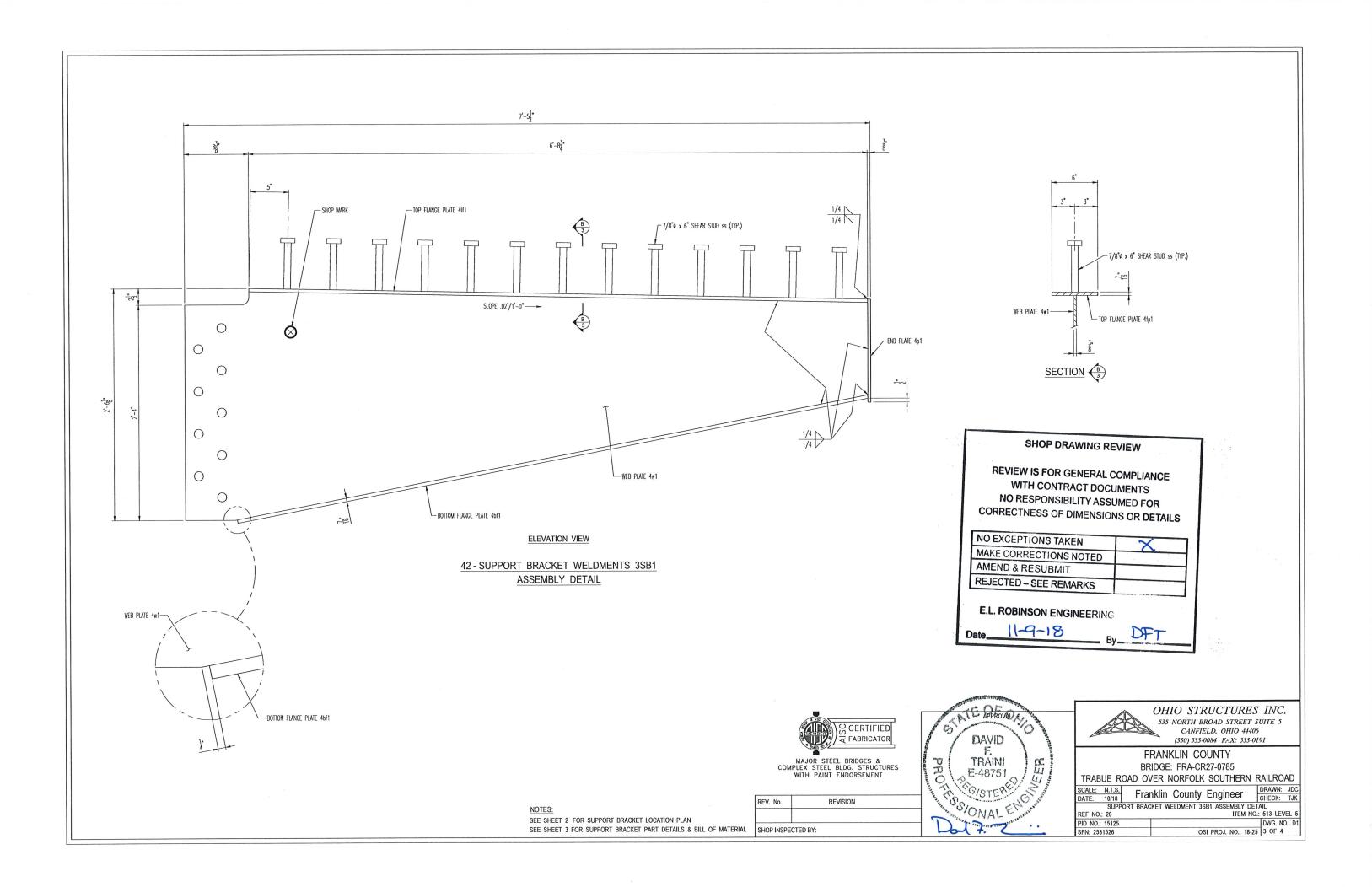


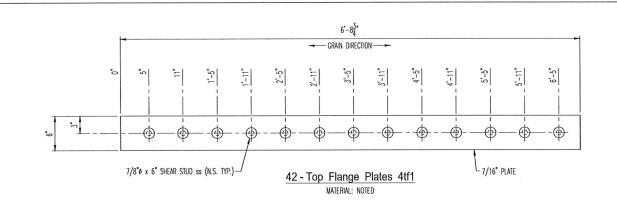
CANFIELD, OHIO 44406 (330) 533-0084 FAX: 533-0191

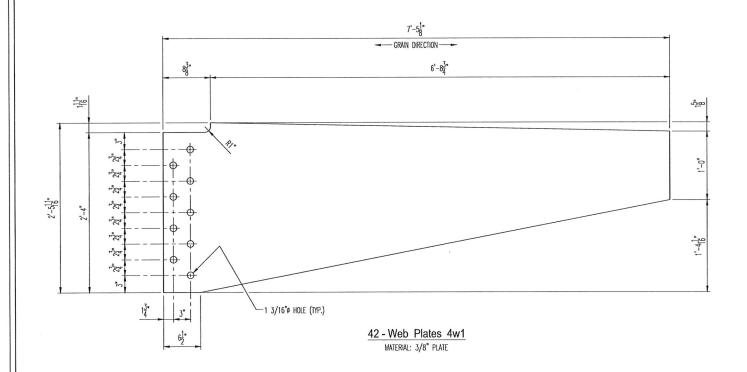
FRANKLIN COUNTY BRIDGE: FRA-CR27-0785

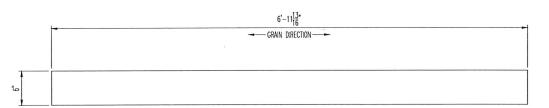
TRABUE ROAD OVER NORFOLK SOUTHERN RAILROAD







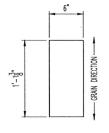




42 - Bottom Flange Plates 4bf1

MATERIAL: 7/16" PLATE

ITEM NO.: 513 LEVEL 5 TRABUE ROAD OVER NSRR PID NO.: 15125 OSI PROJ. NO.: 18-25 REF NO.: 20 42 - SUPPORT BRACKET WELDMENTS 3SB1 MATERIALS ONLY: LENGTH LENGTH LINE PO# QTY MARK DESCRIPTION STL SPEC REMARKS (FEET) (INCHES) (IN LBS) (IN LBS) 42 4w1 PLATE 3/8 x 29 11/16 42 4p1 PLATE 3/8 x 6 WEB PLATE 2 5 1/8 A709-50-W-CVN 201.30 8.454.60 8.54 358.68 60.14 2,525.88 END PLATE 2 1 3/8 A709-50-W-CVN TOP FLANGE PLATE 42 4tf1 PLATE 7/16 x 6 8 3/4 A709-50-W-CVN BOTTOM FLANGE PLATE 6 11 13/16 A709-50-W-CVN 62.42 2,621.64 42 4bf1 PLATE 7/16 x 6 TOTAL WT 13,960.80



42 - End Plates 4p1

MATERIAL: 3/8" PLATE

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS

	and the second second
NO EXCEPTIONS TAKEN	· · · · · · · · · · · · · · · · · · ·
MAKE CORRECTIONS NOTED	X
AMEND & RESUBMIT	
REJECTED - SEE REMARKS	
E.L. ROBINSON ENGINEERING	
11 0 15	

By DFT



MAJOR STEEL BRIDGES &
COMPLEX STEEL BLDG. STRUCTURES
WITH PAINT ENDORSEMENT

REV. No. REVISION
SHOP INSPECTED BY:





SEE SHEET 2 FOR SUPPORT BRACKET LOCATION PLAN
SEE SHEET 3 FOR SUPPORT BRACKET ASSEMBLY DETAIL

OHIO STRUCTURES INC.

535 NORTH BROAD STREET SUITE 5 CANFIELD, OHIO 44406 (330) 533-0084 FAX: 533-0191

FRANKLIN COUNTY BRIDGE: FRA-CR27-0785

TRABUE ROAD OVER NORFOLK SOUTHERN RAILROAD

SCALE: N.T.S. DATE: 10/18 Franklin County Engineer DRAWN: JDC CHECK: TJK