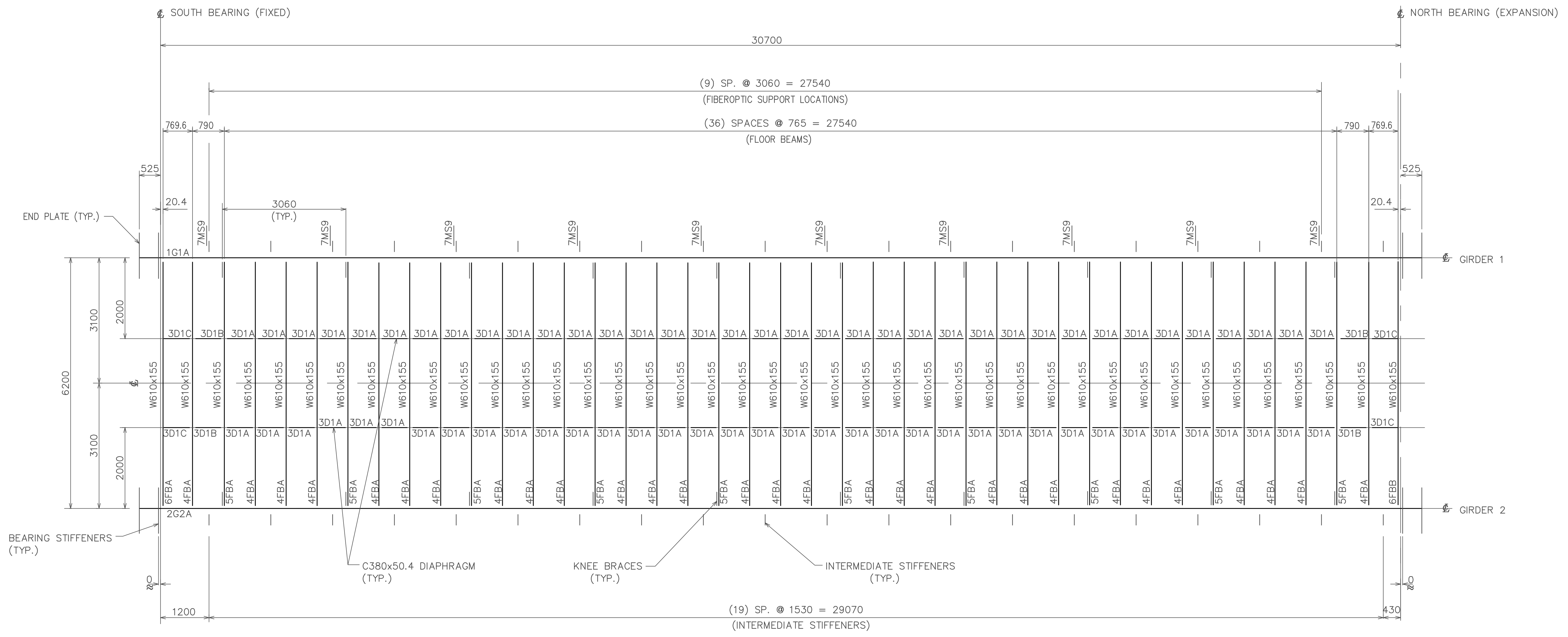


CONCRETE PAD ELEVATIONS		
GIRDER	Q SOUTH ABUT. FIXED	Q NORTH ABUT. EXP.
1G1A	86.473	86.681
2G2A	86.473	86.681

BILL OF MATERIAL												
Dwg. No.	Rev.	Ship Mark	Piece Mark	Qty	Type	Size of Material	Grade	Length	Finish	Wgt.	Notes	ABM
				1904	H.S. BOLTS	7/8"	A325 TYPE 3	70				
				1904	H. HEX NUTS	7/8"	A563 GR. C3					
				1904	STD. WASH.	7/8"	F436					
				512	H.S. BOLTS	7/8"	A325 TYPE 3	76				
				512	H. HEX NUTS	7/8"	A563 GR. C3					
				512	STD. WASH.	7/8"	F436					
				56	H.S. BOLTS	7/8"	A325 TYPE 3	95				
				56	H. HEX NUTS	7/8"	A563 GR. C3					
				56	STD. WASH.	7/8"	F436					
				40	H.S. BOLTS	5/8"	A325 TYPE 3	40				
				40	H. HEX NUTS	5/8"	A563 GR. C3					
				40	STD. WASH.	5/8"	F436					

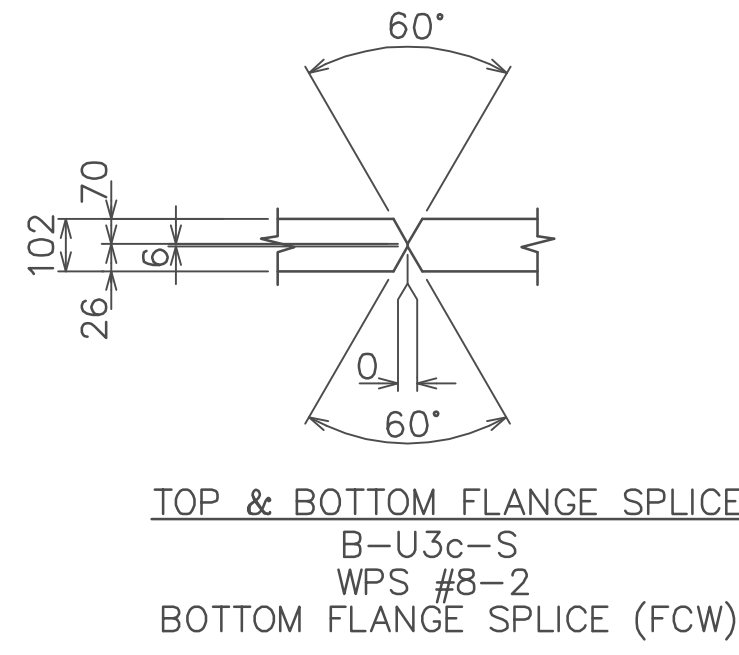
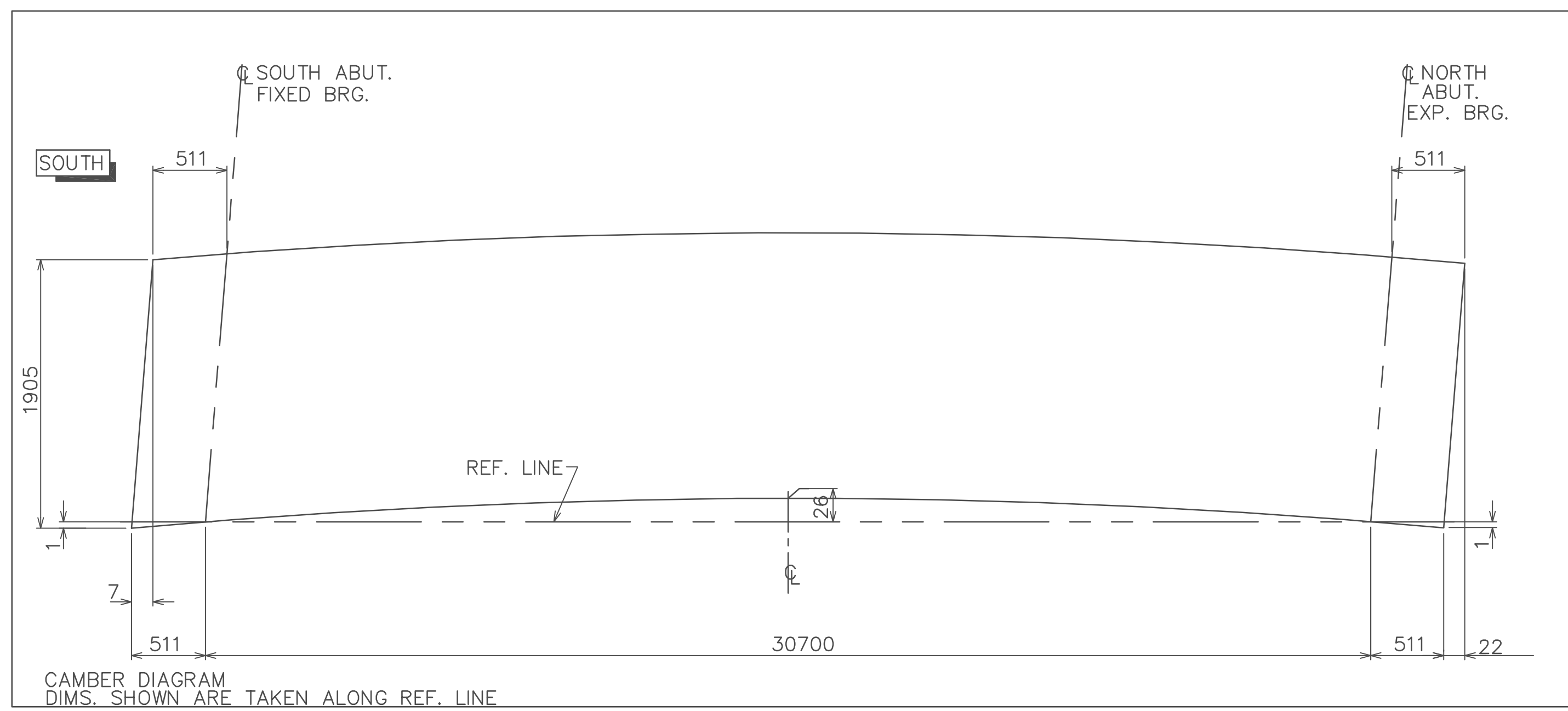


FRAMING PLAN
 NOTE:
 LIFTING WEIGHT OF GIRDERS
 IS 112,000 POUNDS.

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 (814) 435-6997

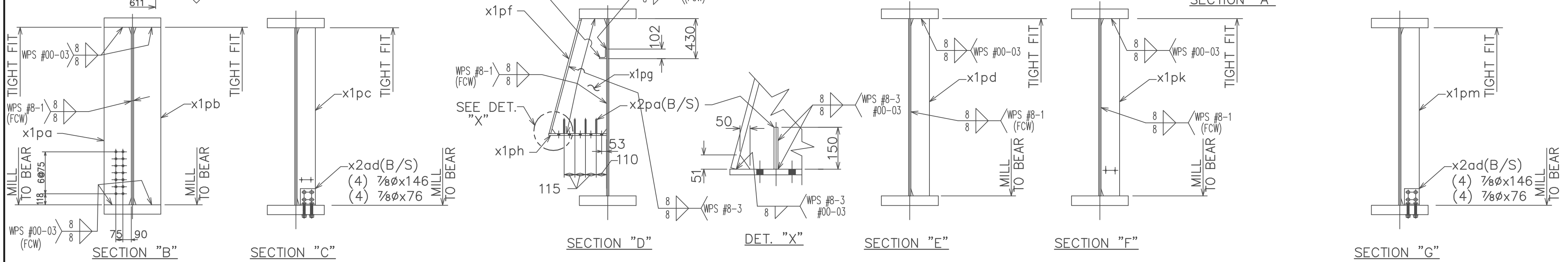
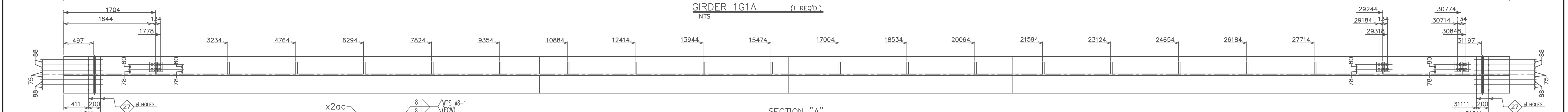
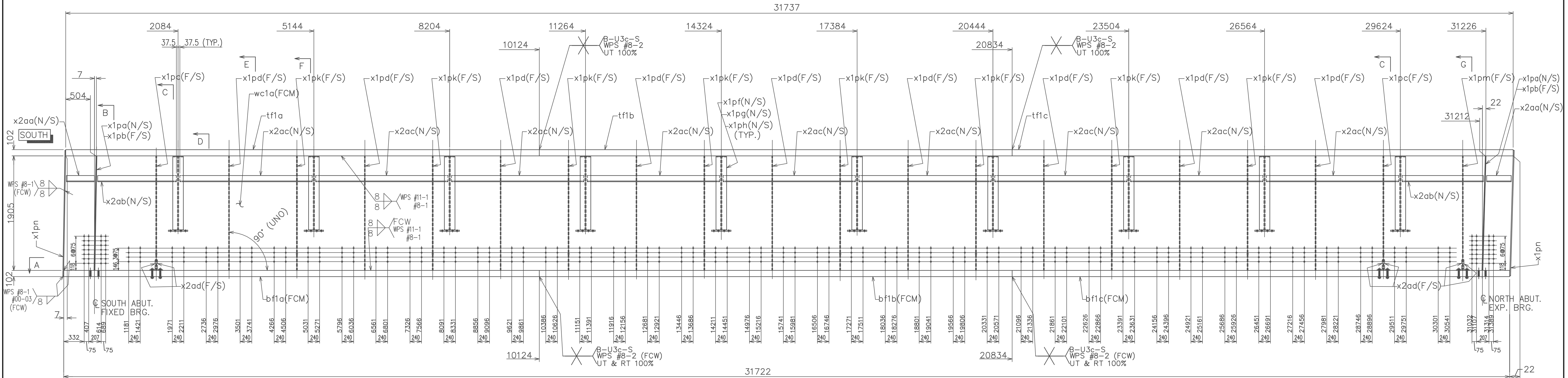
EASTERN BRIDGE LLC
 RURAL RTE 2, BOX 302
 CLAREMONT, NH 03743
 608-542-5202

REVISIONS			STATE OF VERMONT AGENCY OF TRANSPORTATION		
NO.	DATE	DESCRIPTION	CONTRACT : PIN :		
1	6/24/03	PER APPROVAL	PROPOSED IMPROVEMENT TO RR BRIDGE #62.56 OVER VT ROUTE 9 (PRINCIPAL ARTERIAL) WINDHAM COUNTY, TOWN OF BRATTLEBORO		
TITLE :			FRAMING PLAN		
DRAWN BY DAN		SHOP ORDER	DWC NO.		
3/17/03		4015	E1		
CKD BY RJS		BLOCK NO.	SHEET NO.		
4/14/03			2 / 20		

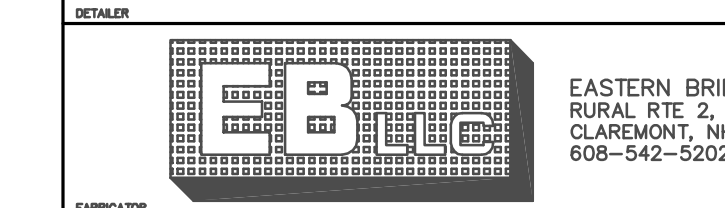


BILL OF MATERIAL												
Dwg. No.	Rev.	Ship Mark	Piece Mark	Qty	Type	Size of Material	Grade	Length	Finish	Wgt./Lbs.	Notes	ABM
1		1G1A		1	GIRDER					111563		
			tf1a	1	PL	102x610	M270M-345WT2	10124				1-A
			tf1b	1	PL	102x610	M270M-345WT2	10710				1-AA
			tf1c	1	PL	102x610	M270M-345WT2	10903				
			bf1a	1	PL	102x610	M270M-345WF2	10124			FCM	1-B
			bf1b	1	PL	102x610	M270M-345WF2	10710			FCM	1-AB
			bf1c	1	PL	102x610	M270M-345WF2	10888			FCM	
			wc1a	1	PL	25x1905	M270M-345WF2	31744		26554	FCM	1-C
			x1pa	2	PL	28x280	M270M-345W	1905		528		1-D
			x1pb	2	PL	28x280	M270M-345W	1905		528		1-D
			x1pc	2	PL	14x200	M270M-345W	1905		264		1-E
			x1pd	9	PL	14x200	M270M-345W	1905		1186		1-E
			x1pf	10	PL	20x175	M270M-345W	1260		786		1-F
			x1pg	10	PL	20x584	M270M-345W	1236		2584		1-G
			x1ph	10	PL	20x322	M270M-345W	620		8612		1-H
			x1pk	8	PL	14x200	M270M-345W	1905		752		1-E
			x1pm	1	PL	14x200	M270M-345W	1905		94		1-E
			x1pn	2	PL	14x610	M270M-345W	2083		629		1-I
			x2ad	6	L	178x102x12.7	M270M-345W	160		56		1-J
			x2ac	9	L	102x76x12.7	M270M-345W	2985		978		1-K
			x2ab	2	L	102x76x12.7	M270M-345W	1491		109		1-L
			x2aa	2	L	102x76x12.7	M270M-345W	436		32		1-M
			x2pa	80	PL	14x150	M270M-345W	150		440		1-N
			12 H.S. BOLTS			7/8"	A325 TYPE 3	146		10		1-O
			4 H.S. BOLTS			7/8"	A325 TYPE 3	76				1-P
			16 H. HEX NUTS			7/8"	A563GR C3					1-Q
			16 STD. WASHERS			7/8"	F346					1-Q

NOTE:
GENERAL NOTES SEE DWG. GN1
HOLES : 24mm U.N.O.
FOR WEB CUTTING DIAGRAM SEE WC-1



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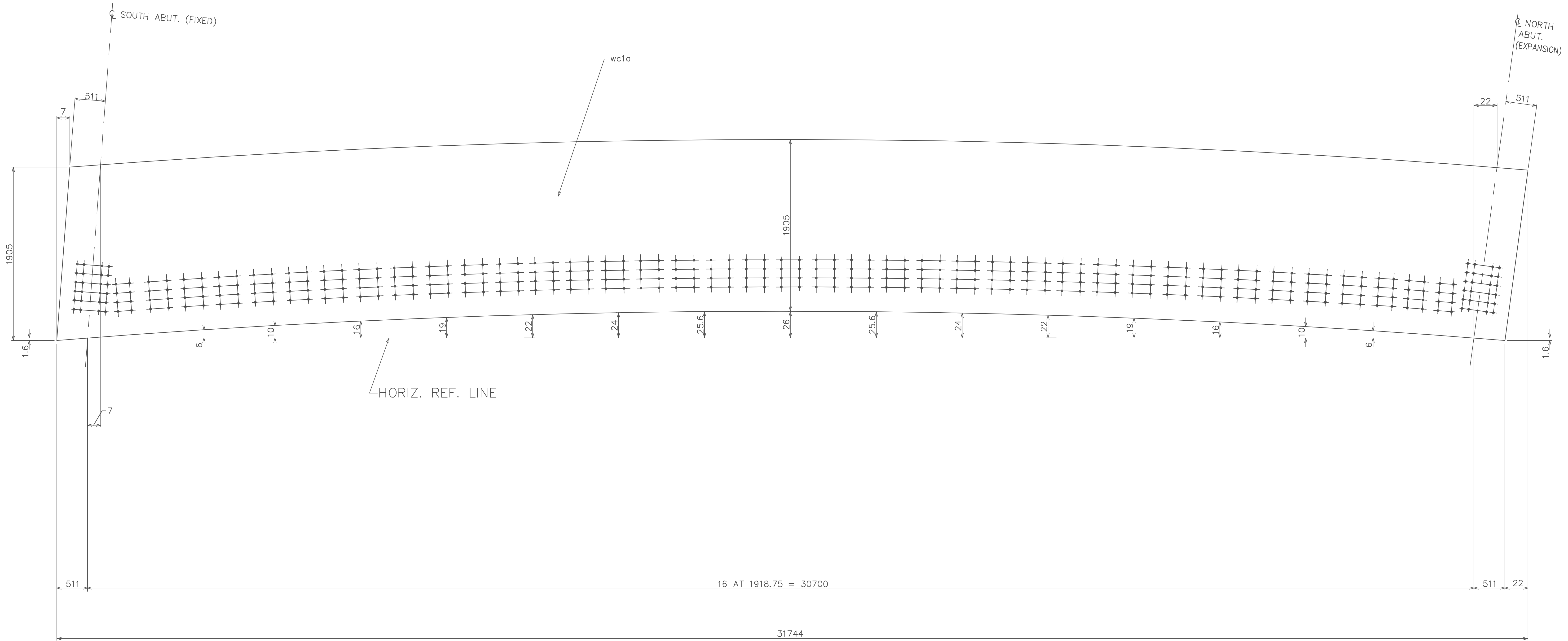
EASTERN BRIDGE LLC
RURAL RTE 2, BOX 302
CLAREMONT, NH 03743
608-542-5202

REVISIONS		STATE OF VERMONT AGENCY OF TRANSPORTATION	
NO.	DATE	DESCRIPTION	
1	5/14/03	PER APPROVAL	
2	6/24/03	PER APPROVAL	

CONTRACT :
PIN :
PROPOSED IMPROVEMENT TO RR BRIDGE #62.56
OVER VT ROUTE 9 (PRINCIPAL ARTERIAL)
WINDHAM COUNTY, TOWN OF BRATTLEBORO

TITLE :
GIRDER 1G1A

DRAWN BY TJS SHOP ORDER DWG. NO.
3/20/03 4015 1
CKD BY RJS BLOCK NO. SHEET NO.
4/14/03 7 / 20



WEB CUTTING FOR 1G1A, 2G2A (FCM)
 NTS (wc1a, PL25x1931 x 31744)

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REVISIONS			STATE OF VERMONT AGENCY OF TRANSPORTATION		
NO.	DATE	DESCRIPTION	CONTRACT :	PIN :	
1	5/14/03	PER APPROVAL	PROPOSED IMPROVEMENT TO RR BRIDGE #62.56		
2	6/24/03	PER APPROVAL	OVER VT ROUTE 9 (PRINCIPAL ARTERIAL)		
			WINDHAM COUNTY, TOWN OF BRATTLEBORO		
			TITLE :		
			WEB CUTTING DIAGRAM		
DRAWN BY TJS		SHOP ORDER	DWG. NO.		
3/26/03		4015	WC1		
CKD BY RJS		BLOCK NO.	SHEET NO.		
4/14/03			17 / 20		

GENERAL SHOP NOTES

PROPOSED IMPROVEMENT TO RR BRIDGE #62.56
OVER VT ROUTE 9 (PRINCIPAL ARTERIAL)
IN THE TOWN OF BRATTLEBORO
WINDHAM COUNTY, VT

1 SPECIFICATIONS

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS; AREMA'S "MANUAL FOR RAILWAY ENGINEERING", LATEST EDITION; THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISION.

2 MATERIAL

ALL STRUCTURAL STEEL SHALL BE AASHTO M270M/M270M-93 GRADE 345W
ALL BOLTS SHALL BE 22MM DIAMETER AASHTO M164M-93 TYPE 3
NUTS SHALL BE AASHTO M291M-93, GRADE 1053 HVY. HEX NUTS
WASHERS SHALL BE AASHTO M293M (WEATHERING)

MEMBERS MARKED GR345WT2 SHALL CONFORM TO CHARPY V-NOTCH TESTING IN ACCORDANCE WITH AASHTO T243 FREQUENCY "H", ZONE 2
20 J. @ 4°C UP TO 2"(INCL.)
27 J. @ 4°C UP TO 2" TO 4"

MEMBERS MARKED GR345WF2 ARE FRACTURE CRITICAL AND SHALL CONFORM TO CHARPY V-NOTCH TESTING IN ACCORDANCE WITH AASHTO T243, FREQUENCY "PP", ZONE 2.
25 J. @ 4°C UP TO 2"(INCL.)
30 J. @ 4°C UP TO 2" TO 4"

3 FABRICATION AND WORKMANSHIP

ALL REENTRANT CUTS TO HAVE A MINIMUM 50MM RADIUS U.N.O.
FLOOR BEAMS SHALL BE FABRICATED WITH THEIR NATURAL CAMBER UP

ALL GIRDERS ARE FRACTURE CRITICAL MEMBERS AND REQUIRE THE FRACTURE CRITICAL CONTROL PLAN PER AREMA CHAPTER 15. TEST REPORTS AND SPECIMENS SHALL BE DELIVERED TO THE ENGINEER FOR EXAMINATION. ALL CERTIFICATION AND REQUIREMENTS OF AREMA SHALL BE FOLLOWED AND REPORTS AND DOCUMENTATION SHALL BE PROVIDED TO THE ENGINEER.

ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA).

4 SHOP WELDING AND TESTING NOTES

ALL WELDING AND INSPECTION OF WELDS SHALL CONFORM TO ANSI/AASHTO/AWS D1.5

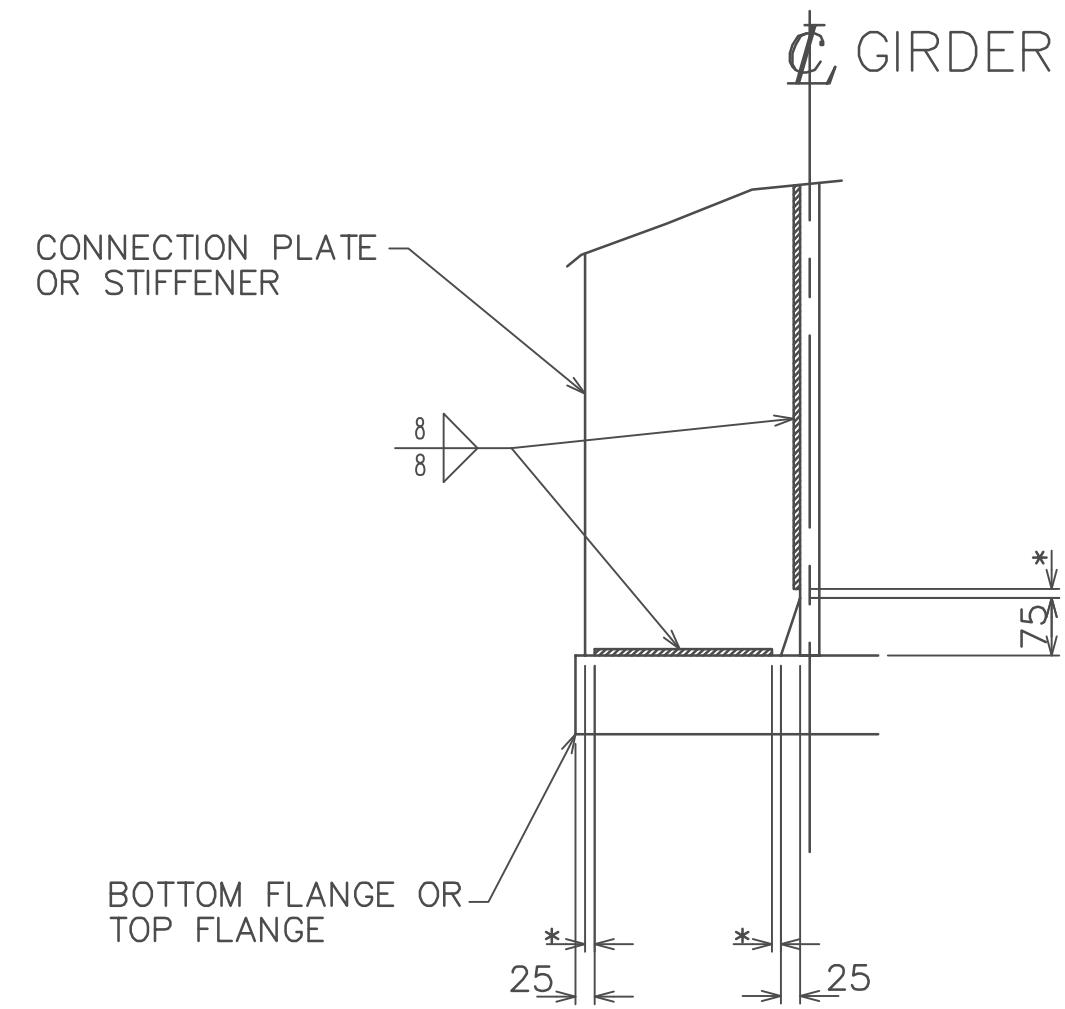
5 SHOP CLEANING AND PAINTING

THE STRUCTURAL STEEL OF THIS BRIDGE SHALL NOT BE PAINTED

IN THE FABRICATION SHOP THE OUTSIDE SURFACE OF THE FASCIA GIRDER SHALL BE CLEANED OF ALL DIRT, GREASE, PAINT, MILL SCALE OR OTHER FOREIGN MATERIAL PRIOR TO SHIPPING. THE PURPOSE OF THE CLEANING IS TO PRODUCE FASCIA SURFACES WHICH WILL WEATHER UNIFORMLY

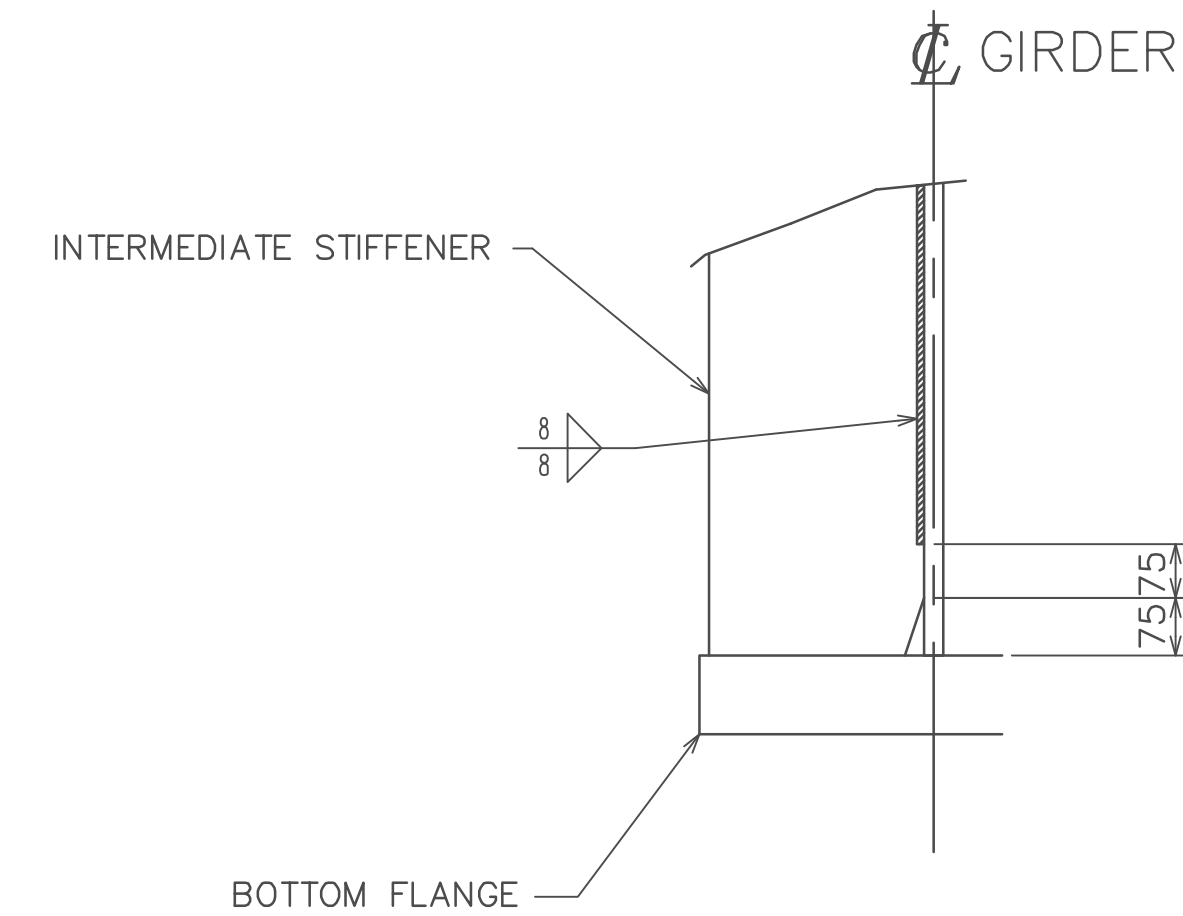
6 MISC.

A NAMEPLATE BEARING THE NAME OF THE MANUFACTURER AND THE DATE OF MANUFACTURE SHALL BE ATTACHED IN A VISIBLE LOCATION AT THE SOUTH END OF 2G2A.




TYPICAL WELD DETAIL (EXCEPT INTERMEDIATE STIFFENERS)

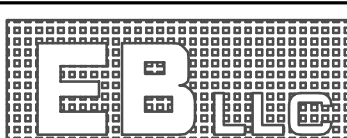
* = NO WELD FOR 6 MIN. 12 MAX.
(EXCEPT MUST MAINTAIN 25 MIN. FROM EDGE OF FLANGE)



TYPICAL WELD DETAIL FOR INTERMEDIATE STIFFENERS

REVISIONS			STATE OF VERMONT AGENCY OF TRANSPORTATION		
NO.	DATE	DESCRIPTION	CONTRACT :	PIN :	
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2	6/24/03	PER APPROVAL	OVER VT ROUTE 9 (PRINCIPAL ARTERIAL)	WINDHAM COUNTY, TOWN OF BRATTLEBORO	
			TITLE :		
			GENERAL NOTES		
DRAWN BY TJS		SHOP ORDER	DWG. NO.		
3/24/03		4015	GN1		
CKD BY RGY		BLOCK NO.	SHEET NO.		
4/14/03			1 / 20		


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