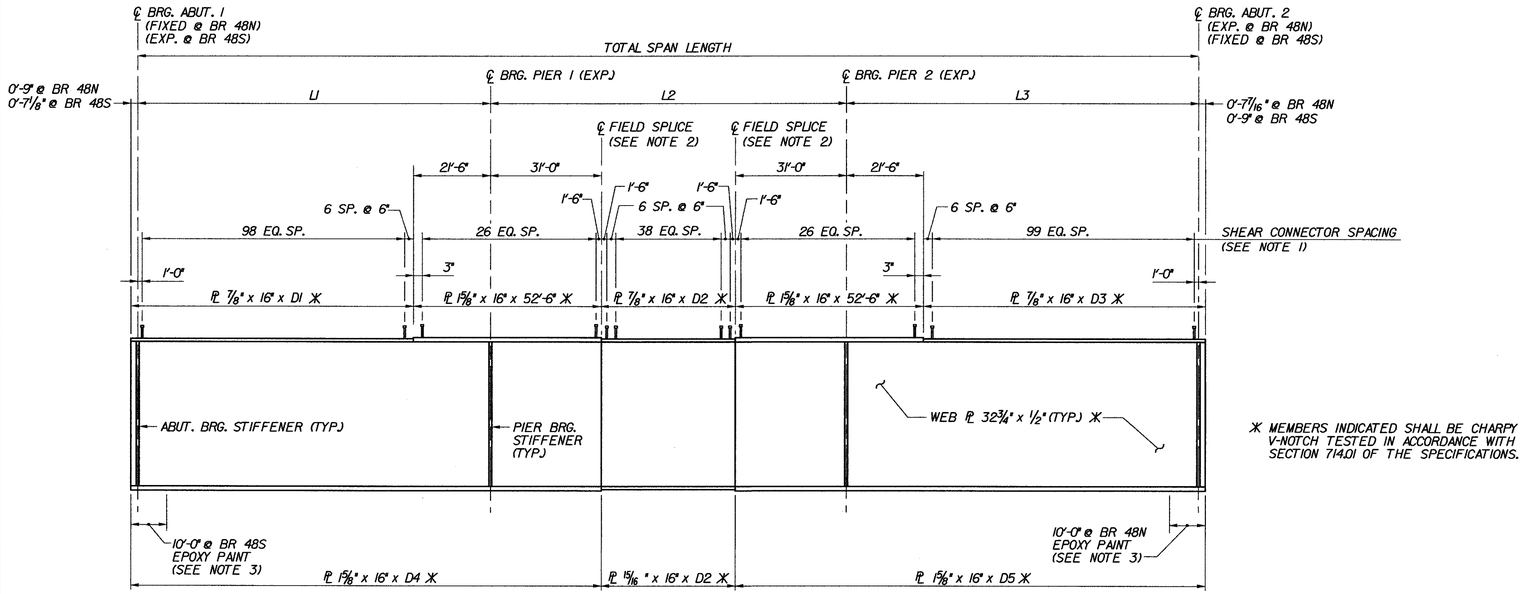
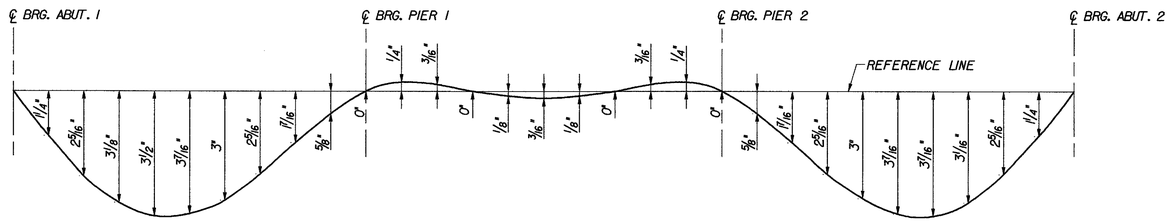


* MEMBERS INDICATED SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SECTION 714.01 OF THE SPECIFICATIONS.

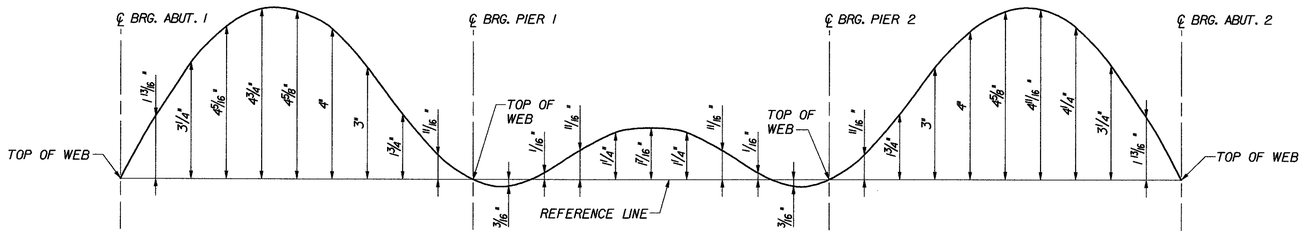
STRINGER ELEVATION (PLATE GIRDER)

N.T.S.



DEAD LOAD DEFLECTION DIAGRAM

N.T.S.



CAMBER DIAGRAM

N.T.S.

BR 48N					
		SPAN LENGTHS (ALONG ARC)			TOTAL
STRINGER	RADIUS	L1	L2	L3	SPAN LENGTH
S1	4319.28'	98' - 2 3/8"	99' - 1 13/16"	98' - 1 1/2"	295' - 5 11/16"
S2	4326.78'	98' - 1 15/16"	99' - 1 5/16"	98' - 1"	295' - 4 1/4"
S3	4334.28'	98' - 1 9/16"	99' - 0 13/16"	98' - 0 1/2"	295' - 2 7/8"
S4	4341.78'	98' - 1 1/8"	99' - 0 3/8"	98' - 0"	295' - 1 1/2"
S5	4349.28'	98' - 0 3/4"	98' - 11 15/16"	97' - 11 7/16"	295' - 0 1/8"
		SECTION LENGTHS (ALONG ARC)			
STRINGER	D1	D2	D3	D4	D5
S1	77' - 5 3/8"	37' - 1 13/16"	77' - 2 15/16"	129' - 11 3/8"	129' - 8 15/16"
S2	77' - 4 15/16"	37' - 1 5/16"	77' - 2 7/16"	129' - 10 15/16"	129' - 8 7/16"
S3	77' - 4 9/16"	37' - 0 13/16"	77' - 1 15/16"	129' - 10 9/16"	129' - 7 15/16"
S4	77' - 4 1/8"	37' - 0 3/8"	77' - 1 7/16"	129' - 10 1/8"	129' - 7 7/16"
S5	77' - 3 3/4"	36' - 11 15/16"	77' - 0 7/8"	129' - 9 3/4"	129' - 6 7/8"

BR 48S					
		SPAN LENGTHS (ALONG ARC)			TOTAL
STRINGER	RADIUS	L1	L2	L3	SPAN LENGTH
S1	4245.28'	98' - 7"	99' - 6"	98' - 5 3/8"	296' - 6 3/8"
S2	4252.78'	98' - 6 9/16"	99' - 5 1/2"	98' - 4 7/8"	296' - 4 15/16"
S3	4252.78'	98' - 6 1/8"	99' - 5 1/16"	98' - 4 5/16"	296' - 3 1/2"
S4	4252.78'	98' - 5 11/16"	99' - 4 9/16"	98' - 3 13/16"	296' - 2 1/16"
S5	4252.78'	98' - 5 5/16"	99' - 4 1/16"	98' - 3 1/4"	296' - 0 5/8"
		SECTION LENGTHS (ALONG ARC)			
STRINGER	D1	D2	D3	D4	D5
S1	77' - 8 1/8"	37' - 6"	77' - 8 3/8"	130' - 2 1/8"	130' - 2 3/8"
S2	77' - 7 11/16"	37' - 5 1/2"	77' - 7 7/8"	130' - 1 11/16"	130' - 1 7/8"
S3	77' - 7 1/4"	37' - 5 1/16"	77' - 7 5/16"	130' - 1 1/4"	130' - 1 5/16"
S4	77' - 6 13/16"	37' - 4 9/16"	77' - 6 13/16"	130' - 0 13/16"	130' - 0 13/16"
S5	77' - 6 7/16"	37' - 4 1/16"	77' - 6 1/4"	130' - 0 7/16"	130' - 0 1/4"

NOTES:

1. EACH ROW OF SHEAR CONNECTORS SHALL CONSIST OF 2 STUDS. FOR LATERAL SPACING, SEE TRANSVERSE SECTION (48N&S), BRIDGE SHEET BR48-4.
2. FOR FIELD SPLICE DETAILS, SEE TYPICAL GIRDER SPLICE DETAILS, BRIDGE SHEET C-20.
3. ALL STRUCTURAL STEEL WITHIN 10 FEET OF END OF STRINGER AT EXPANSION ENDS SHALL BE COATED WITH A PROTECTIVE PAINT SYSTEM, WITH THE FINAL COAT TO BE DARK BROWN (COLOR CHIP #20059) TO BLEND WITH THE WEATHERING STEEL. THE COST OF PAINTING SHALL BE PAID FOR UNDER ITEM 513.25, "STRUCTURAL PAINTING, SHOP APPLIED".

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of MIDDLESEX-BOLTON	Bridge No. **48N&S**
Highway No. I-89	Log Sta. / Surv. Sta.
I-89 OVER LITTLE RIVER	
STRINGER ELEVATION (48N&S)	
Designed By P.W. SZUSTAK	Drawn By R.A. BOTZENHART
Checked By J.P. HALSTEAD Date 10/99	Bridge Design Supervisor J.P. HALSTEAD Date 10/99
PROJECT MIDDLESEX-BOLTON	PROJECT NO. IM-089-2(26)
TVGA ENGINEERING, SURVEYING, P.C.	TVGA CAD Drawing No. 48str_el Date 10/99
	Bridge Sheet No. **BR48-10** Sheet 70 of 307