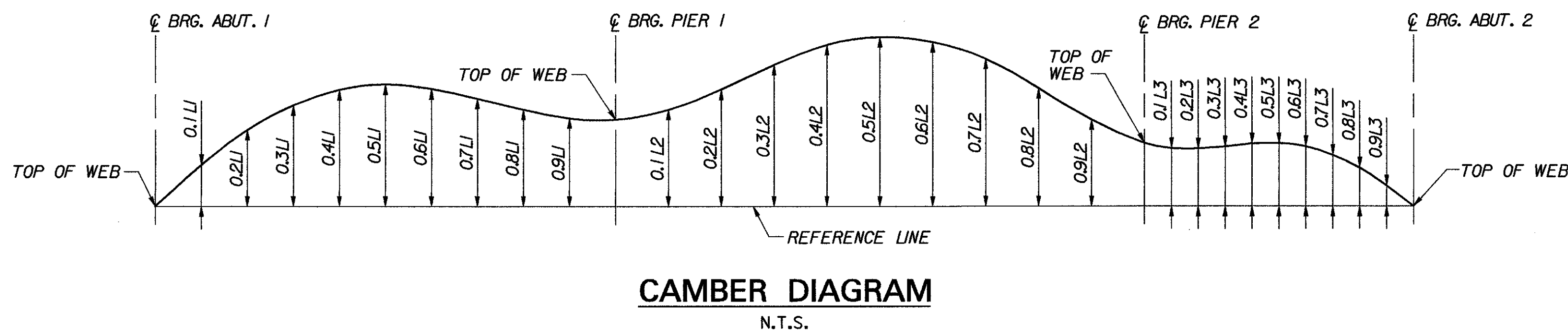
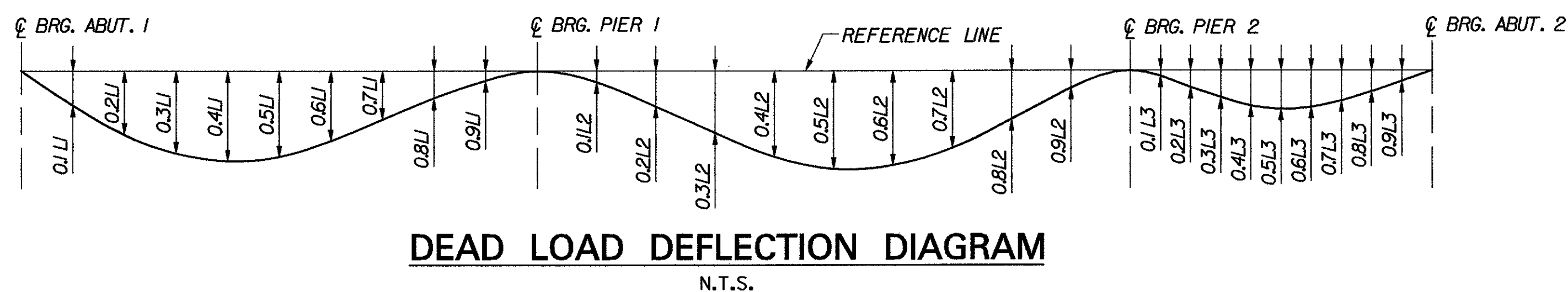


* MEMBERS INDICATED SHALL BE CHAMPY V-NOTCH TESTED IN ACCORDANCE WITH SECTION 714.01 OF THE SPECIFICATIONS.



BR 43N					
STRINGER	RADIUS	SPAN LENGTHS (ALONG ARC)			TOTAL SPAN LENGTH
		L1	L2	L3	
S1	22940.32'	52' - 11 13/16"	74' - 2 1/4"	42' - 8 7/8"	169' - 10 15/16"
S2	22947.82'	52' - 11 5/8"	74' - 1 15/16"	42' - 8 11/16"	169' - 10 1/4"
S3	22955.32'	52' - 11 7/16"	74' - 1 11/16"	42' - 8 1/2"	169' - 9 5/8"
S4	22962.82'	52' - 11 3/16"	74' - 1 3/8"	42' - 8 3/8"	169' - 8 15/16"
S5	22970.32'	52' - 11"	74' - 1 1/16"	42' - 8 3/16"	169' - 8 1/4"
STRINGER		SECTION LENGTHS (ALONG ARC)			
		D1	D2	D3	
S1		36' - 2 13/16"	29' - 9"	105' - 9 11/16"	
S2		36' - 2 5/8"	29' - 9"	105' - 9 3/16"	
S3		36' - 2 7/16"	29' - 9"	105' - 8 3/4"	
S4		36' - 2 3/16"	29' - 9"	105' - 8 5/16"	
S5		36' - 2"	29' - 9"	105' - 7 13/16"	

BR 43S					
STRINGER	RADIUS	SPAN LENGTHS (ALONG ARC)			TOTAL SPAN LENGTH
		L1	L2	L3	
S1	22866.32'	73' - 2 1/16"	84' - 1 7/8"	42' - 9 5/16"	200' - 1 1/4"
S2	22873.82'	73' - 1 3/4"	84' - 1 1/2"	42' - 9 3/16"	200' - 0 7/16"
S3	22881.32'	73' - 1 7/16"	84' - 1 3/16"	42' - 9"	199' - 11 5/8"
S4	22888.82'	73' - 1 3/16"	84' - 0 7/8"	42' - 8 13/16"	199' - 10 7/8"
S5	22896.32'	73' - 0 7/8"	84' - 0 1/2"	42' - 8 11/16"	199' - 10 1/16"
STRINGER		SECTION LENGTHS (ALONG ARC)			
		D1	D2	D3	
S1		52' - 3 9/16"	43' - 3"	106' - 5 3/16"	
S2		52' - 3 1/4"	43' - 3"	106' - 4 11/16"	
S3		52' - 2 15/16"	43' - 3"	106' - 4 3/16"	
S4		52' - 2 11/16"	43' - 3"	106' - 3 11/16"	
S5		52' - 2 3/8"	43' - 3"	106' - 3 3/16"	

NOTES:

1. THE FIELD SPLICE IN SPAN 1 IS OPTIONAL AT BR 43N.
2. FOR FIELD SPLICE DETAILS, SEE TYPICAL ROLLED BEAM SPLICE DETAILS, BRIDGE SHEET C-19.
3. EACH ROW OF SHEAR CONNECTORS SHALL CONSIST OF 2 STUDS. FOR LATERAL SPACING, SEE TRANSVERSE SECTION (43N&S), BRIDGE SHEET BR43-4.
4. 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".

DL DEFLECTION																															
BRIDGE	CL	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	PIER 1	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	PIER 2	0.1 L3	0.2 L3	0.3 L3	0.4 L3	0.5 L3	0.6 L3	0.7 L3	0.8 L3	0.9 L3	CL
43N	0"	0 1/8"	0 3/16"	0 1/4"	0 1/4"	0 3/16"	0 1/8"	0 1/16"	0"	-0 1/16"	0"	0 1/4"	0 11/16"	1 1/16"	1 5/16"	1 7/16"	1 3/8"	1 1/8"	0 3/4"	0 5/16"	0"	-0 1/16"	-0 1/8"	-0 1/16"	0"	0"	0 1/16"	0 1/16"	0 1/16"	0"	
43S	0"	0 1/2"	0 15/16"	1 3/16"	1 5/16"	1 1/4"	1"	0 11/16"	0 3/8"	0 1/8"	0"	0 1/8"	0 1/2"	0 7/8"	1 1/4"	1 7/16"	1 3/8"	1 3/16"	0 3/4"	0 5/16"	0"	-0 1/16"	-0 1/8"	-0 1/8"	-0 1/16"	-0 1/16"	0"	0"	0"	0"	

TOTAL CAMBER																															
BRIDGE	CL	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	PIER 1	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	PIER 2	0.1 L3	0.2 L3	0.3 L3	0.4 L3	0.5 L3	0.6 L3	0.7 L3	0.8 L3	0.9 L3	CL
43N	0"	0 9/16"	0 15/16"	1 3/16"	1 1/4"	1 1/8"	0 7/8"	0 1/2"	0 3/16"	0"	0"	0 5/16"	0 15/16"	1 5/8"	2 3/16"	2 7/16"	2 1/4"	1 11/16"	1"	0 3/8"	0"	0"	0 1/8"	0 7/16"	0 13/16"	1"	1 1/16"	1"	0 13/16"	0 1/2"	0"
43S	0"	1 1/16"	2 1/16"	2 13/16"	3 3/8"	3 5/8"	3 9/16"	3 5/16"	3"	2 3/4"	2 11/16"	3"	3 9/16"	4 3/16"	4 3/4"	4 15/16"	4 11/16"	4 3/16"	3 3/8"	2 5/8"	1 15/16"	1 13/16"	1 13/16"	1 13/16"	1 7/8"	1 7/8"	1 13/16"	1 1/2"	1 1/8"	0 9/16"	0"

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of **MIDDLESEX-BOLTON** Bridge No. **43N&S**
 Highway No. **I-89** Log Sta. _____
 Surv. Sta. _____

I-89 OVER U.S. ROUTE 2

STRINGER ELEVATION (43N&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 CAD Drawing No. **43str_el** Date **08/00**
 Bridge Sheet No. **BR43-10** Sheet **56** of **307**