



STRINGER ELEVATION
N.T.S.

BR 51S								
STRINGER	RADIUS	SPAN LENGTHS (ALONG ARC)						TOTAL LENGTH (CL BRG. ABUT. TO ABUT.)
		L1	L2	L3	L4	L5	L6	
S1	9497.42'	37' - 4 7/16"	87' - 10 11/16"	87' - 5 1/2"	99' - 1 1/16"	98' - 4 3/16"	52' - 11 1/2"	465' - 1 3/8"
S2	9504.92'	37' - 4 7/16"	87' - 10 11/16"	87' - 5 1/2"	91' - 5 7/16"	98' - 3 3/16"	52' - 10 7/8"	457' - 4 1/8"
S3	9512.42'	37' - 4 7/16"	87' - 10 11/16"	87' - 5 1/2"	83' - 9 13/16"	98' - 2 3/16"	52' - 10 5/16"	449' - 6 15/16"
S4	9519.92'	37' - 4 7/16"	87' - 10 11/16"	87' - 5 1/2"	76' - 2 3/8"	98' - 1 1/8"	52' - 9 3/4"	441' - 9 7/8"
S5	9527.42'	37' - 4 7/16"	87' - 10 11/16"	87' - 5 1/2"	68' - 6 15/16"	98' - 0 3/16"	52' - 9 3/16"	434' - 0 15/16"

STRINGER	SECTION LENGTHS (ALONG ARC)							
	D1	D2	D3	D4	D5	D6	D7	D8
S1	38' - 10 1/16"	67' - 1 5/16"	48' - 3"	39' - 11 1/2"	95' - 1 1/16"	49' - 9"	56' - 0 3/16"	71' - 5 1/8"
S2	38' - 10 1/16"	67' - 1 5/16"	48' - 3"	42' - 5 1/2"	84' - 8 7/16"	48' - 0"	57' - 11 3/16"	71' - 4 1/2"
S3	38' - 10 1/16"	67' - 1 5/16"	48' - 3"	44' - 8 1/2"	73' - 9 13/16"	47' - 6"	59' - 4 3/16"	71' - 3 15/16"
S4	38' - 10 1/16"	67' - 1 5/16"	48' - 3"	46' - 8 1/2"	62' - 2 3/8"	48' - 4"	60' - 5 1/8"	71' - 3 3/8"
S5	38' - 10 1/16"	67' - 1 5/16"	48' - 3"	48' - 2 1/2"	47' - 9 15/16"	52' - 9"	61' - 2 3/16"	71' - 2 13/16"

STRINGER	"A"	"B"	"C"	"D"	"E"
S1	20'-9"	24'-9"	25'-0"	16'-9"	23'-6"
S2	18'-3"	25'-0"	23'-0"	16'-6"	24'-6"
S3	16'-0"	26'-0"	21'-6"	16'-9"	25'-3"
S4	14'-0"	28'-0"	20'-4"	17'-9"	26'-0"
S5	12'-6"	33'-3"	19'-6"	21'-6"	26'-6"

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

NOTES:

- FOR FIELD SPLICE DETAILS, SEE TYPICAL GIRDER SPLICE DETAILS, BRIDGE SHEET C-20.
- FOR LATERAL SPACING OF SHEAR CONNECTORS, SEE STRINGER ELEVATION (S1N) (1 OF 2), BRIDGE SHEET BR51-14.
- 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	BOLTON	Bridge No.	51S
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
I-89 SB OVER U.S. ROUTE 2 AND JOINER BROOK			
STRINGER ELEVATION (51S) (1 OF 2)			
Designed By	P.W. SZUSTAK	Drawn By	R.A. BOTZENHART
Checked By	Date	Bridge Design Supervisor	Date
J.P. HALSTEAD	10/99	J.P. HALSTEAD	10/99
PROJECT	BOLTON	PROJECT NO.	IM-089-2(29)
TVGA CAD Drawing No.	51s1rel	Date	08/00
Bridge Sheet No.	BR51-18	Sheet	116 of 307