

### DESIGN MOVEMENTS

BEARING LOCATION	TRUSS	BEARING TYPE	UNFACTORED (SEE NOTE 1)					
			LONGITUDINAL			TRANSVERSE		
			LIVE (SEE NOTE 2)	THERMAL COLD	THERMAL HOT	LIVE (SEE NOTE 2)	THERMAL COLD	THERMAL HOT
			mm	mm	mm	mm	mm	mm
PIER	1	UNI-DIRECTIONAL	+8	-23	+23	0	-1	+1
PIER	2	UNI-DIRECTIONAL	+8	-23	+23	0	+1	-1
ABUT. 2	1	FIXED	0	0	0	0	-1	+1
ABUT. 2	2	FIXED	0	0	0	0	+1	-1

### TRUSS BEARING NOTES

- UNFACTORED LOADS AND ROTATIONS ARE PROVIDED IN THE TABLE. AASHTO ARTICLES 14.4 AND 14.4.1 REQUIRE THAT ALL CRITICAL COMBINATIONS OF LOAD AND MOVEMENT (ROTATION) BE CONSIDERED FOR BOTH SERVICE AND FACTORED LOADS (AS SPECIFIED IN AASHTO SECTION 3 OF DIVISION I).
- INSTANTANEOUS AND LONG-TERM EFFECTS SHALL BE CONSIDERED, BUT THE INFLUENCE OF IMPACT NEED NOT BE INCLUDED PER AASHTO ARTICLE 14.4.
- UNFACTORED ROTATION BASED ON AASHTO 14.4.1: MINIMUM DESIGN ROTATION = DEAD LOAD + LIVE LOAD + 0.01 RAD FOR FABRICATION AND INSTALLATION TOLERANCES (UNLESS AN APPROVED QC PLAN JUSTIFIES A SMALLER VALUE) + 0.01 RAD FOR ALLOWANCE OF UNCERTAINTIES (UNLESS AN APPROVED QC PLAN JUSTIFIES A SMALLER VALUE).
- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
- BEARINGS SHALL CONFORM TO LFD AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 17TH EDITION, AND ITS LATEST REVISIONS.
- PAY FOR BEARINGS UNDER ITEM 531.10 "BEARING DEVICE ASSEMBLY". INCLUDE MASONRY PLATES, SOLE PLATES, ANCHOR BOLTS, NUTS AND WASHERS.
- LEVEL THE CONCRETE SURFACES UNDER THE BEARINGS.
- SUBMIT DESIGNS FOR ALTERNATE BEARINGS FOR APPROVAL. DESIGN AND CERTIFY ALTERNATE BEARINGS TO MEET THE DESIGN PARAMETER SHOWN. MAINTAIN THE ANCHORAGE SYSTEM SHOWN. DESIGNS MAY REVISE BRIDGE SEAT ELEVATION. REVISIONS TO SEAT ELEVATIONS SHALL BE RESPONSIBILITY OF CONTRACTOR.
- THE CHARPY V-NOTCH TEST SHALL BE REQUIRED FOR BEARING MASONRY PLATES. SEE SECTION 714.01 OF THE STANDARD SPECIFICATIONS.

### DESIGN LOADS

BEARING LOCATION	TRUSS	BEARING TYPE	UNFACTORED (SEE NOTE 1)					
			VERTICAL LOAD			ROTATION DUE TO LOAD		
			DEAD	LIVE (SEE NOTE 2)	COMBINED (SEE NOTE 3)	DEAD	LIVE (SEE NOTE 2)	COMBINED (SEE NOTE 3)
			kN	kN	kN	RAD	RAD	RAD
PIER	1	UNI-DIRECTIONAL	1340	560	1900	0.003	0.001	0.024
PIER	2	UNI-DIRECTIONAL	1340	560	1900	0.003	0.001	0.024
ABUT. 2	1	FIXED	1340	560	1900	0.003	0.001	0.024
ABUT. 2	2	FIXED	1340	560	1900	0.003	0.001	0.024

### STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	JAMAICA	Bridge No.	80
		Log Sta.	
Highway No.	VT. ROUTE 100	Surv. Sta.	
VT. ROUTE 100 OVER THE WEST RIVER			
BEARING DETAILS (2 OF 2) - TRUSS			
Designed By	LKP	Drawn By.	MWS
Checked By	Date	Bridge Design Supervisor	
LMM	2/02	LMM	Date 2/02
PROJECT	JAMAICA	PROJECT NO.	BRF 013-1(8)
I.G.C. Info.			
Bridge Sheet No.	Sheet 78 Of 116		

