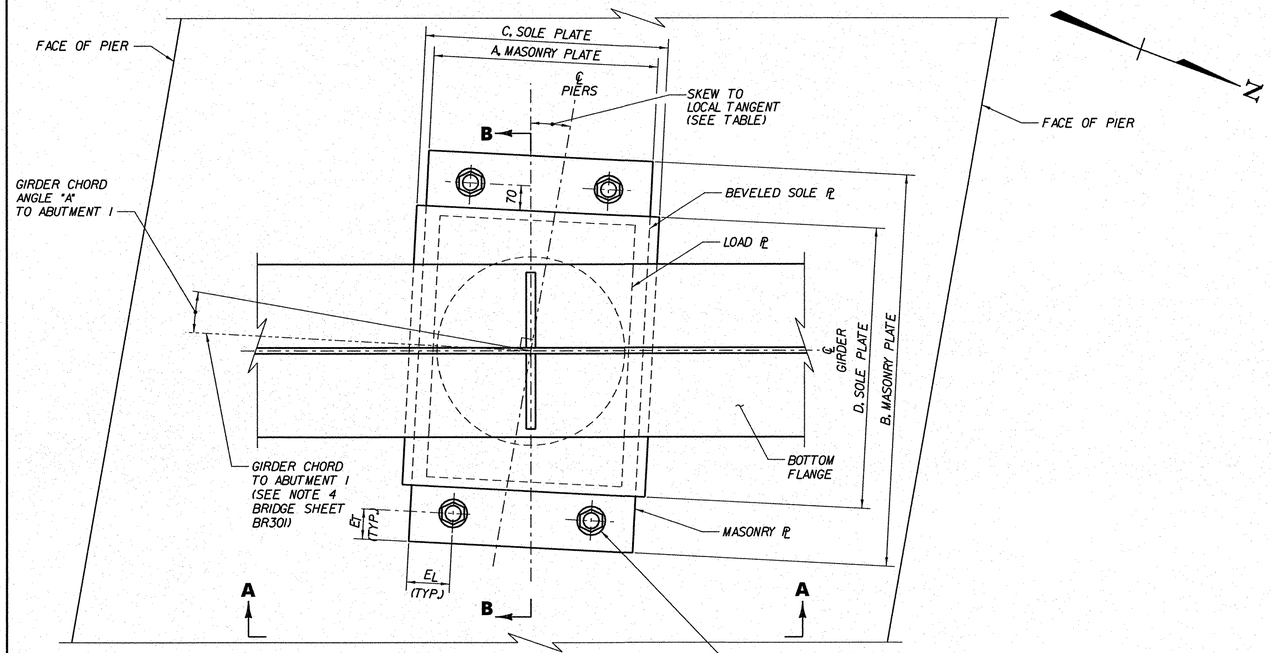
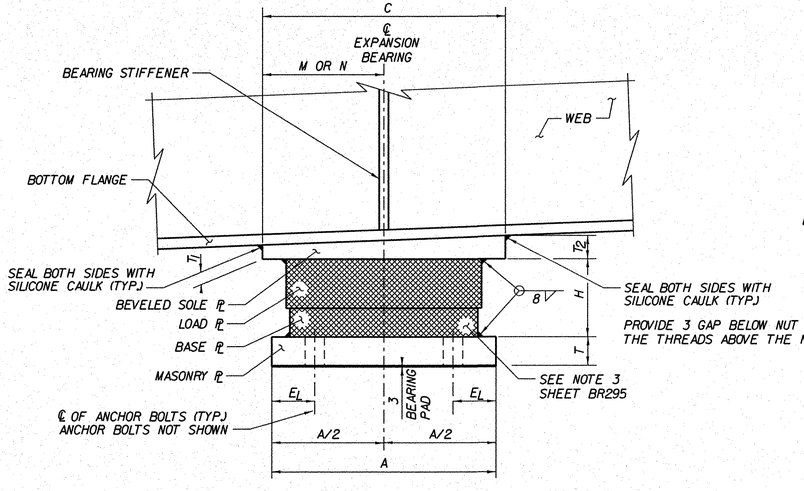
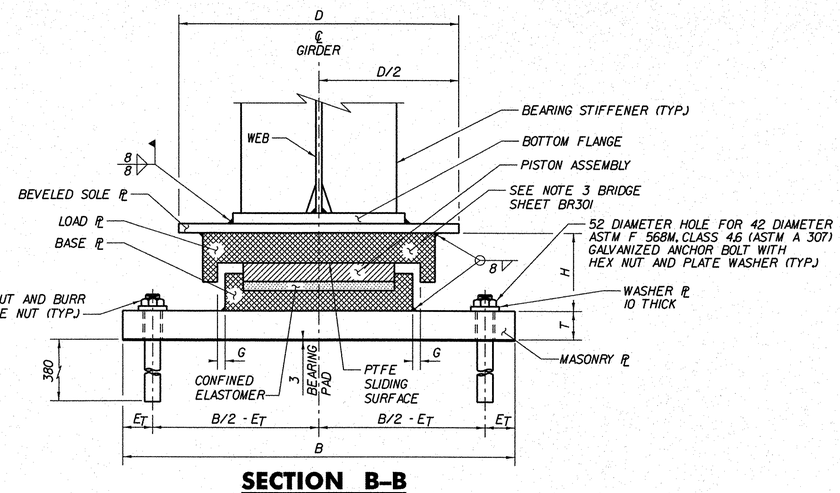


EXPANSION BEARING
NOT TO SCALE



ELEVATION A–A
NOT TO SCALE



SECTION B–B
NOT TO SCALE

EXPANSION BEARING GEOMETRY

BRIDGE NO.	SUB-STRUCTURE NO.	LOCATION	QTY. REQUIRED	MAX. VERT. LOAD (KN)	MAX. HORZ. LOAD (KN)	MIN. VERT. LOAD (KN)	DL+SDL (KN)	LL WITH I (KN)	ONE WAY LONG MOVEMENT	GUIDE CLEARANCE "G"	ROTATION CAPACITY (RADIANS)	MASONRY PL			SOLE PL				BRG.	ANCHOR BOLTS		
												A	B	T	C	D	T_1	T_2	H	DIA.	E_T	E_L
RAMP A	PIER 7	ALL	4	1973	269	1102	1342	631	29	3	0.013	600	1000	69	650	700	25	61	178	42	80	115
RAMP A	PIER 8	ALL	4	1986	257	1101	1283	703	63	3	0.013	600	1000	69	750	700	25	66	178	42	80	115
RAMP D	PIER 1	ALL	4	2168	293	1284	1465	703	29	3	0.013	600	1000	72	650	700	25	62	178	42	80	115
RAMP D	PIER 2	ALL	4	2188	295	1287	1474	714	63	3	0.013	600	1000	72	750	700	25	67	178	42	80	115

NOTES:

1. FOR BEARING NOTES, SEE BRIDGE SHEET BR301.
2. PIERS SHOWN, SEE BRIDGE SHEET BR303 FOR ABUTMENT 2.
3. "M" AND "N" ARE PROVIDED TO ASSIST THE CONTRACTOR IN SETTING THE SOLE PLATE. "M" IS THE DISTANCE FROM THE CENTERLINE OF BEARINGS TO THE FRONT EDGE OF THE SOLE PLATE WITH BEAM AND DIAPHRAGM LOADS ON THE BEARINGS. "N" IS THE DISTANCE FROM THE CENTERLINE OF BEARINGS TO THE FRONT EDGE OF THE SOLE PLATE WITH ALL DEAD AND SUPERIMPOSED DEAD LOADS ON THE BEARINGS. THE VALUES FOR "M" AND "N" ARE BASED ON THE THEORETICAL CAMBER VALUES SHOWN ON THE PLANS. IF THE CAMBER OF THE BEAMS ARE DIFFERENT THAN THE THEORETICAL VALUES, DIFFERENT "M" AND "N" VALUES MAY BE NEEDED. REFER TO BRIDGE SHEET BR304 FOR SOLE PLATE SETTING TABLES.

SKEW TO LOCAL TANGENT

BRIDGE NO.	LOCATION	PIER 1	PIER 2
RAMP A	GIRDER 1	9°51'38.9"	11°19'9.5"
	GIRDER 2	9°50'57.5"	11°18'21.9"
	GIRDER 3	9°50'16.1"	11°17'34.3"
	GIRDER 4	9°49'34.9"	11°16'46.8"
RAMP D	GIRDER 1	11°12'35.2"	13°28'52.8"
	GIRDER 2	11°11'22.1"	13°27'24.4"
	GIRDER 3	11°10'9.4"	13°25'56.4"
	GIRDER 4	11°8'56.9"	13°24'28.7"

TVGA CONSULTANTS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BI5, BI5N, BI5S
Highway No. VT RTE 279	Log Sta. / Surv. Sta.
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER	

PIER EXPANSION BEARING DETAILS

Designed By A. ODIEN	Drawn By D. SHAFFER
Checked By B.J. CARLSON Date 05/08	Bridge Design Supervisor K.M. WOJTKOWSKI Date 05/08
PROJECT BENNINGTON	PROJECT NO. AC NH 019-1(51)
TVGA CAD Drawing No. BEARINGS.dgn	Date 02/02/2009
Bridge Sheet No. BR302	Sheet 289 of 367