

ELASTOMERIC BEARING DETAIL

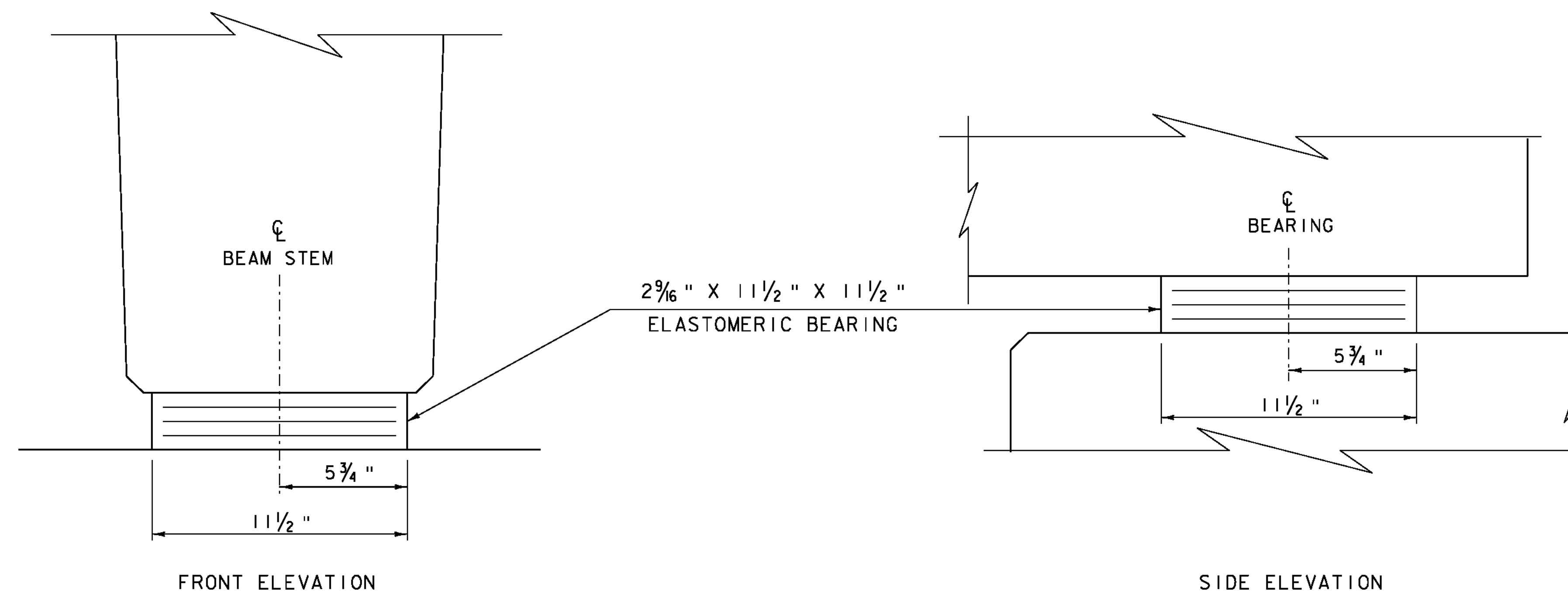
- * 2 - 1/8 " EXTERIOR LAYERS OF ELASTOMER
- 4 - 1/2 " INTERIOR LAYERS OF ELASTOMER
- 5 - 1/16 " STEEL REINFORCING PLATES

SCALE 3" = 1'-0"

Design Load (kip)	Service Limit State	Vertical	Max	91.7
			Min	41.0
			Permanent	41.8
	Strength Limit State		Transverse	---
			Longitudinal	---
			Vertical	140.8
Translation (in)	Service Limit State	Irreversible	Transverse	0
			Longitudinal	1/16
	Reversible	Transverse	3/16	
		Longitudinal	1/2	
Rotation (rad)	Service Limit State	Irreversible	Transverse	0.000
			Longitudinal	0.033
		Reversible	Transverse	0.000
			Longitudinal	0.007

BEARING NOTES

1. BEARINGS SHALL CONFORM TO THE APPLICABLE SUBSECTIONS OF STANDARD SPECIFICATIONS SECTIONS 531 AND 731.
2. ALL REINFORCEMENT BETWEEN LAYERS OF ELASTOMER SHALL BE STEEL AASHTO M270M/M270 GRADE 36. ALL INTERNAL STEEL PLATES SHALL BE SAND BLASTED AND FREE OF COATINGS, RUST AND MILL SCALE. THE PLATES SHALL BE FREE OF SHARP EDGES AND BURRS.
3. STEEL REINFORCED ELASTOMERIC BEARINGS SHALL HAVE A MINIMUM 1/8 " EDGE SEAL OF ELASTOMER INTEGRAL WITH BEARING OVER ALL INTERNAL PLATES.
4. THE ELASTOMER WAS DESIGNED WITH A SHEAR MODULUS OF 100 PSI +/- 15%
5. THE ELASTOMER SHALL MEET THE REQUIREMENTS OF LOW TEMPERATURE ZONE D, GRADE 4.
6. THE CONCRETE UNDER THE BEARING DEVICE SHALL BE LEVEL.
7. ALL DESIGNS DONE FOR THE BEARINGS SHALL BE PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4TH EDITION AND ITS LATEST REVISIONS.
8. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THE PLANS.
9. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATIVE CONFIGURATION.
10. THE CONTRACTOR IS ADVISED TO HAVE A MINIMUM OF 16 - 1/4 "x12 1/2 "x12 1/2 " GALVANIZED STEEL SHIMS AVAILABLE FOR USE FOR ELEVATION ADJUSTMENTS UPON THE SETTING OF THE SUPERSTRUCTURE UNITS. THE SHIMS SHALL BE FABRICATED ACCORDING TO SECTION 531 AND SHALL BE INCLUDED UNDER ITEM 531.11, "BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD".



ELASTOMERIC BEARING DETAILS

SCALE 3" = 1'-0"

PROJECT NAME: CHESTER	PLOT DATE: 20-SEP-2010
PROJECT NUMBER: BRF 025-1(28)	DRAWN BY: M.FESSEL
FILE NAME: 84e061/Str/84e061details.dgn	CHECKED BY: R.S.YOUNG
PROJECT LEADER: C.P.WILLIAMS	BRIDGE 8 ELASTOMERIC BEARING DETAILS
DESIGNED BY: R.S.YOUNG	SHEET 32 OF 124