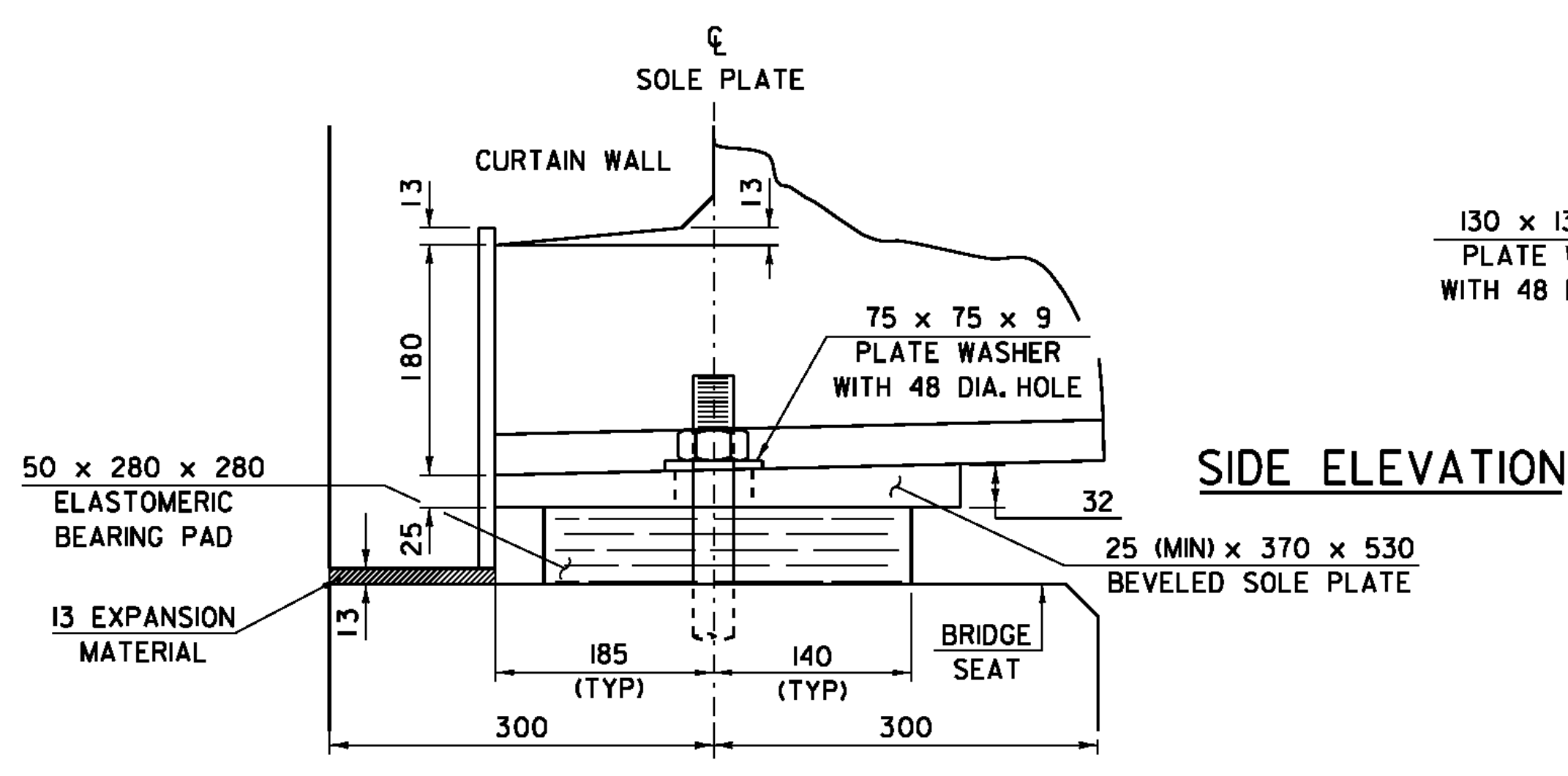


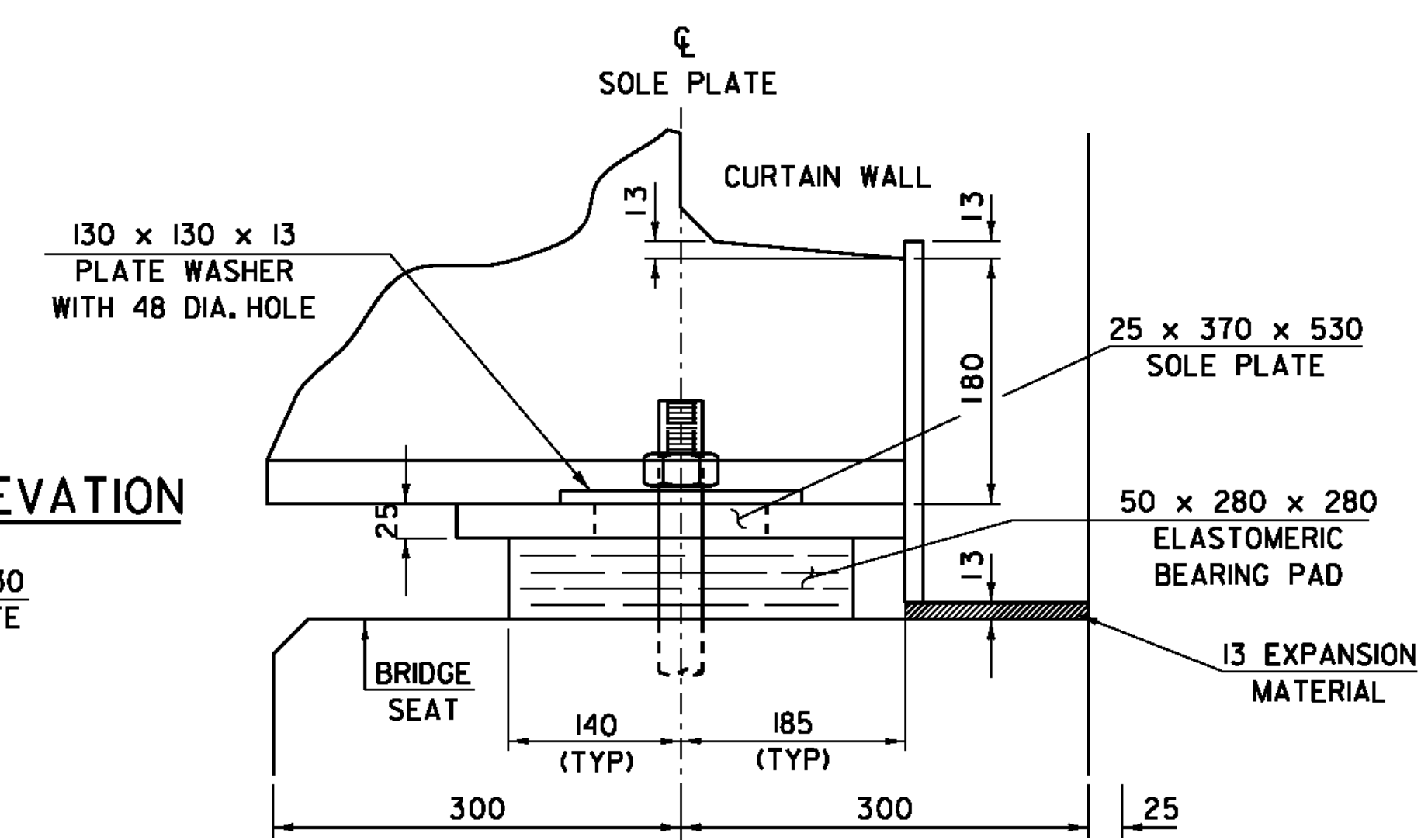
**PLAN**

**BEARING NOTES**

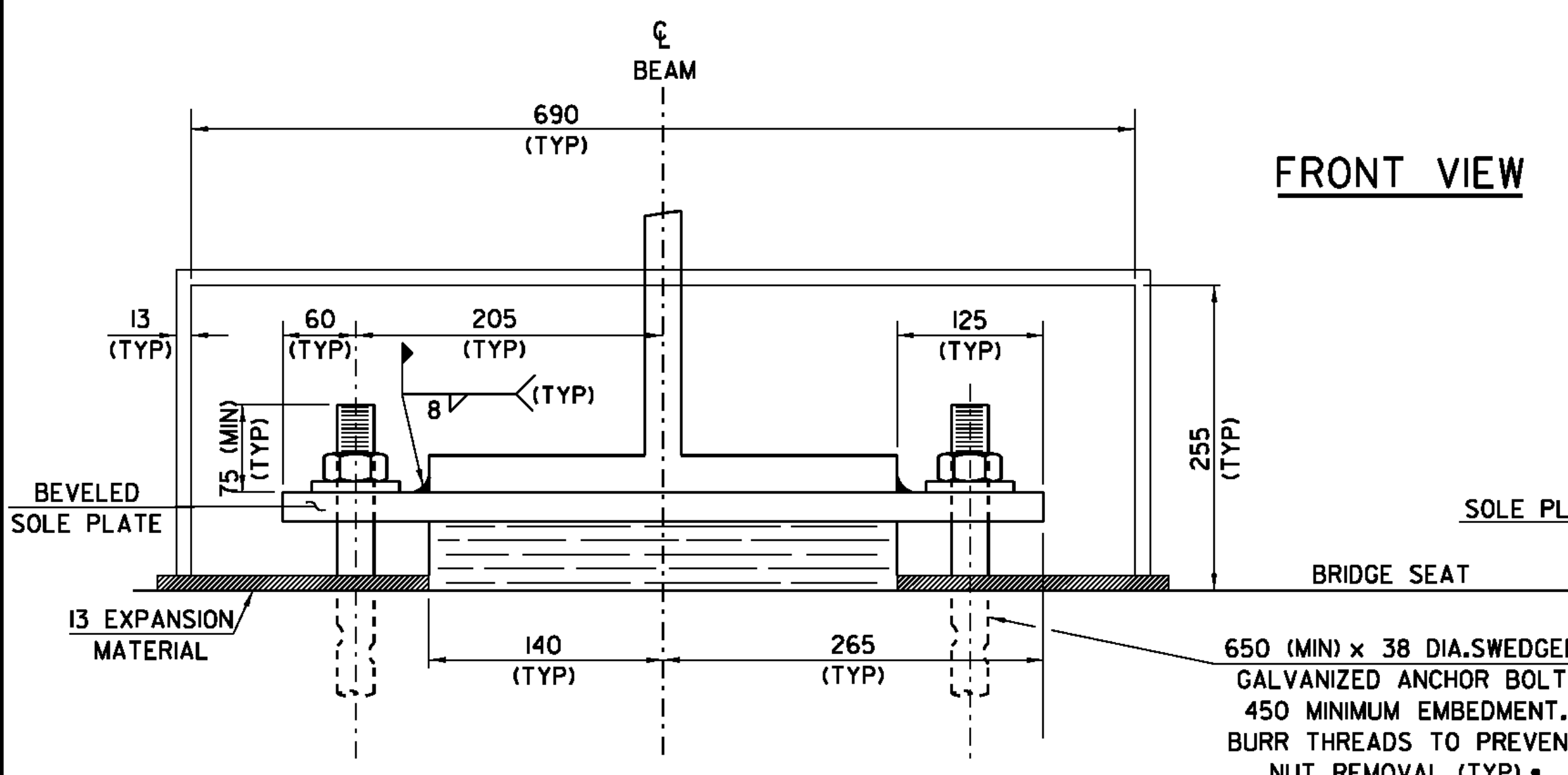
- Bearings shall be paid for under the item 531.11 "Bearing Device Assembly, Elastomeric Pad" and shall conform to applicable subsections of Standard Specifications Sections 531 and 731.
- All Bearing Devices shall be galvanized or metalized as per subsections 531.04 (b) and 506.15 of the Standard Specifications. If the bearings are metalized, they shall be sealed with an approved sealer as specified in subsection 506.15 (b) of the Standard Specifications. Areas of galvanizing or metalizing damaged by field welding or handling shall be repaired in conformance with section 513
- Payment for anchor bolts, nuts, and washers shall be included in the unit bid price for Item 531.11 "Bearing Device Assembly, Elastomeric Pad." Anchor bolts, nuts and washers shall be galvanized per AASHTO M232M/M232.
- All steel in bearing devices shall be AASHTO M270M/M270 Grade 50, unless noted otherwise.
- 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.
- Steel reinforced elastomeric bearings shall have a minimum of 3 mm edge seal of elastomer integral with bearing over all internal plates.
- 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 this sheet. The alternate shall maintain the anchorage system shown and shall be designed per AASHTO LRFD Bridge Design Specifications 4th Edition and its latest revisions and shall be fabricated per AASHTO LRFD Construction Specifications 2nd Edition and its latest revisions.
- Bridge seat elevations may be revised to accommodate an alternative configuration.
- Design Criteria:  
 Rotation = 0.0081 Radius  
 RDL = 37 K  
 RLL = 67 K  
 Translation =  $s = 1"$   
 Temperature Range =  $-30^{\circ}\text{F}$  to  $120^{\circ}\text{F}$   
 Bearings are designed as per AASHTO LRFD Bridge Design Specifications 4th Edition, Section 14, Method B.  
 Elastomer shall have a Shear Modulus between 0.130 ksi and 0.200.  
 The elastomer shall meet the requirements of Low Temperature Zone D, Grade 4.  
 No fabric reinforcement will be allowed in elastomeric pads.
- The steel sole plates shall be hot bonded to the reinforced elastomeric pad during the vulcanization process. The steel surfaces to be bonded to the pad shall not be metalized.
- The concrete surface under the Bearing Device shall be level.
- All required fabrication of bearings will occur before vulcanization process.



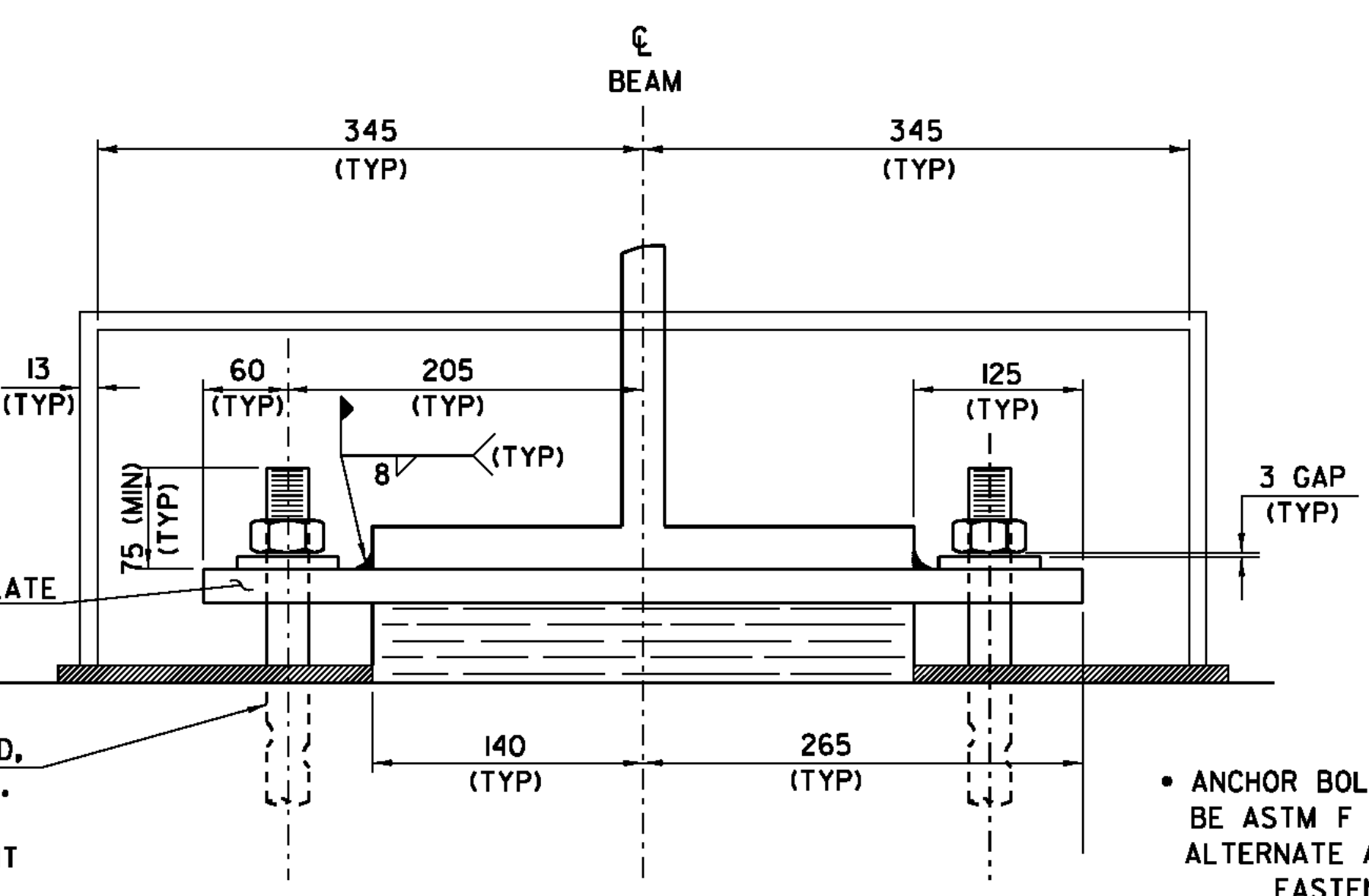
**SIDE ELEVATION**



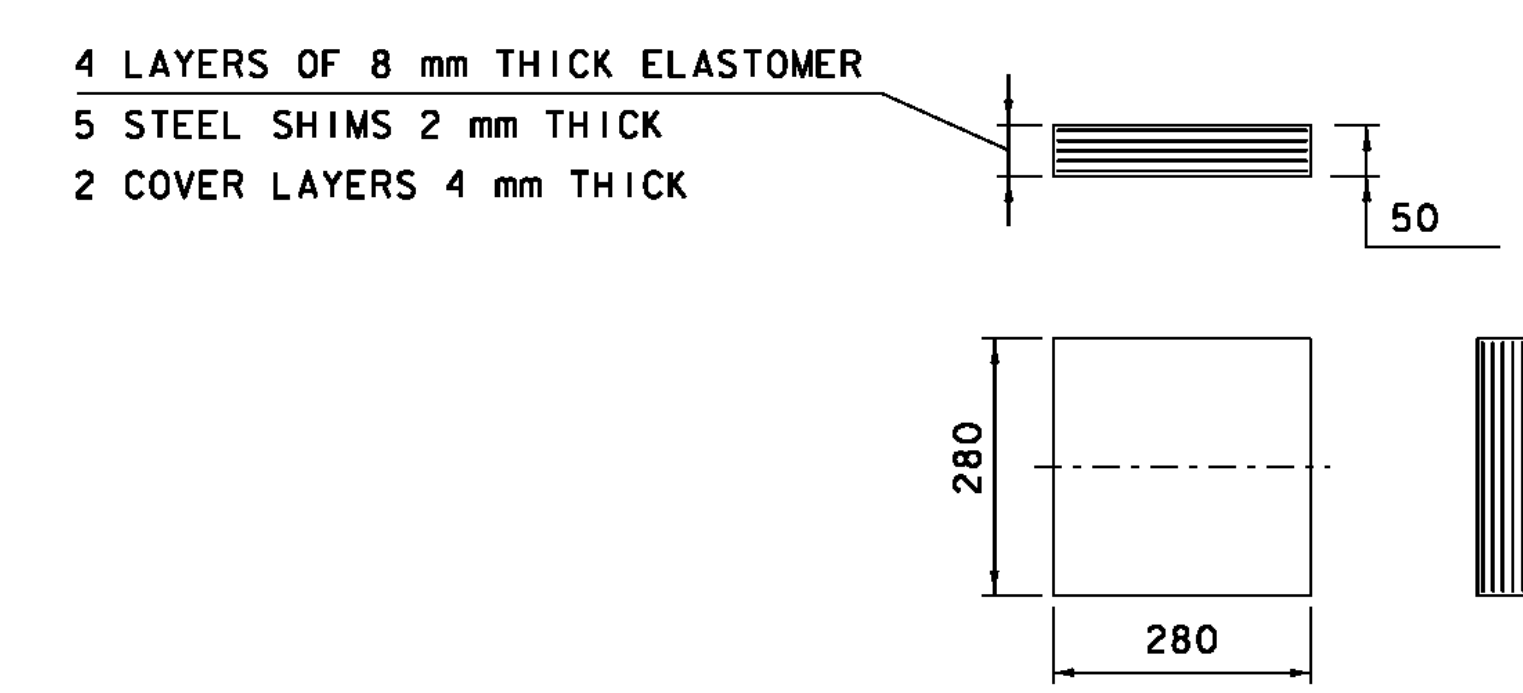
**FRONT VIEW**



**FIXED BEARING @ ABUT #1**



**EXPANSION BEARING @ ABUT #2**



**ELASTOMERIC BEARING DETAIL**  
NTS

• ANCHOR BOLTS SHOULD BE ASTM F 568M OR ALTERNATE APPROVED FASTENER

PROJECT: <b>EAST MONTPELIER</b>	PROJECT NO. # <b>BRF 037-2 (8)</b>
DESIGN FILE NAME: 86e054\Structures\se054sup	PLOT DATE: 18-AUG-2010
IPARM FILE NAME: se054bear. i	DRAWN BY: L. J. STONE
DESIGNED BY: L. J. STONE	CHECKED BY: H. I. SALLS
SQUAD LEADER: C. P. WILLIAMS	SHEET: 26 OF 63
BEARING DETAIL SHEET	