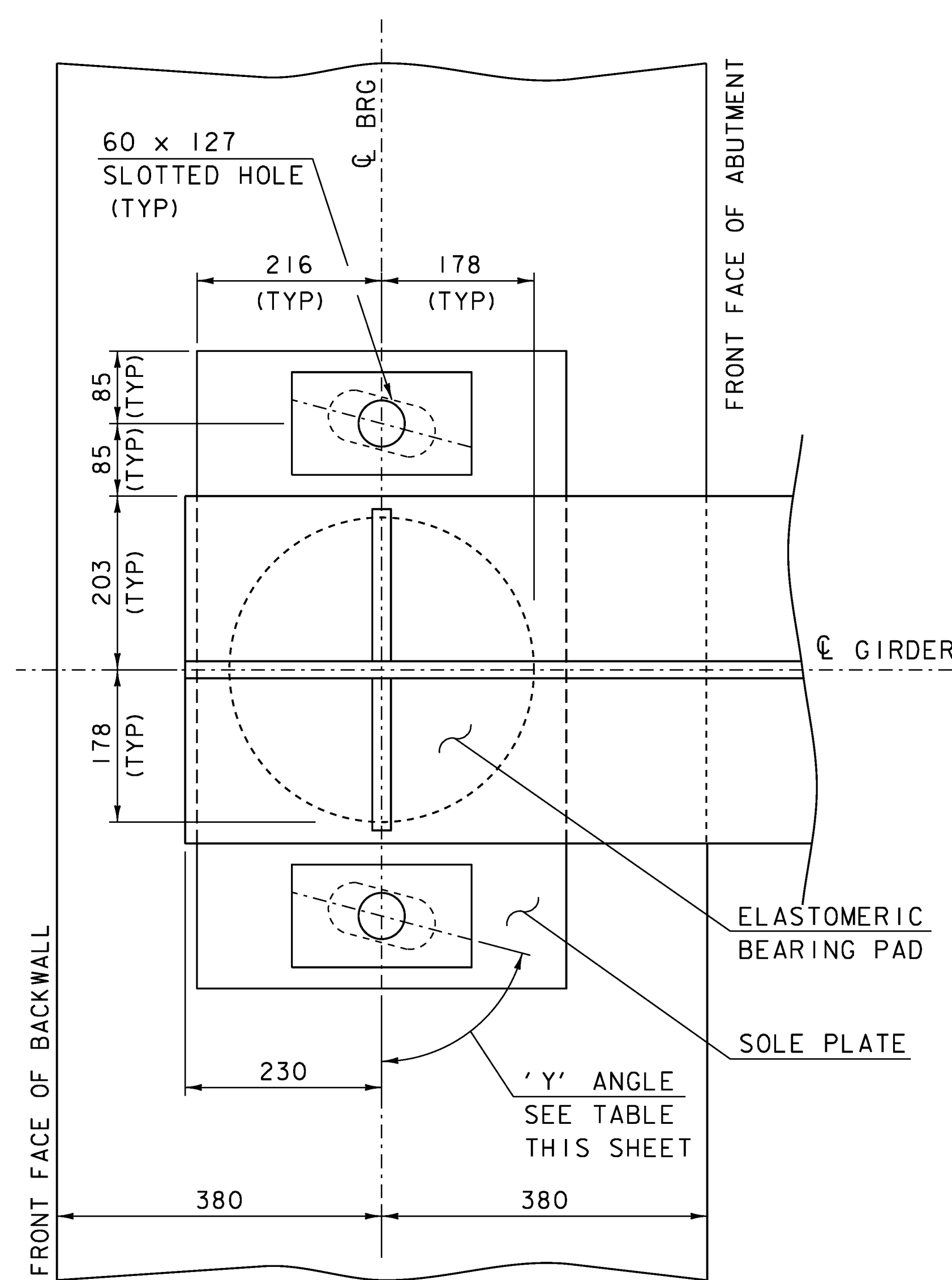


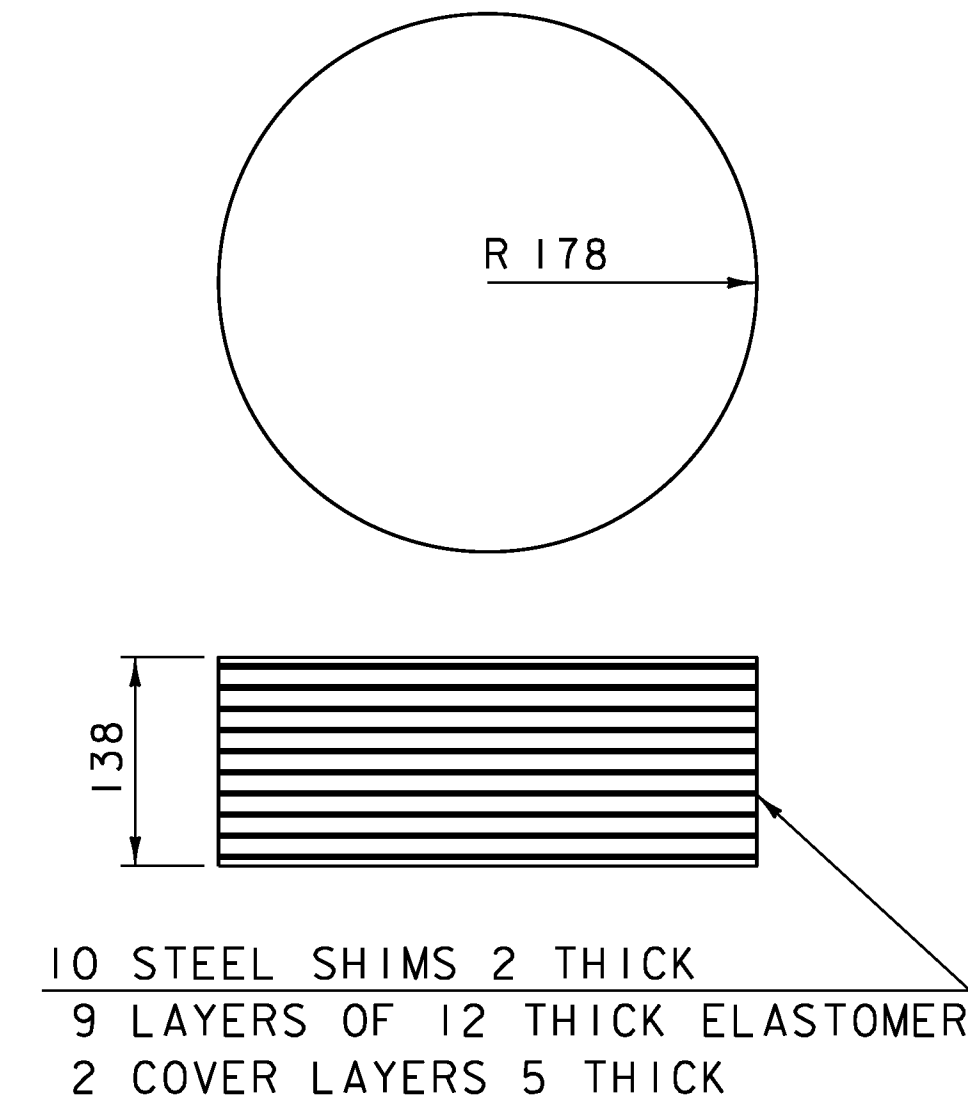
BEARING NOTES

- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
- ABUTMENT BEARINGS SHALL BE PAID FOR UNDER THE APPLICABLE ITEM 531.17 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD."
- PIER BEARINGS SHALL BE PAID FOR UNDER ITEM 531.15 "BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL."
- ANCHOR BOLTS, INCLUDING DRILLING AND GROUTING, WASHERS AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CORRESPONDING BEARING DEVICE ITEM.
- ALL WASHERS SHALL BE 9.5MM PLATE (MINIMUM).
- ALL POTS, PLATES, NUTS, WASHERS AND ANCHOR BOLTS, UNLESS NOTED OTHERWISE, SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04 (B). IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN SUBSECTION 726.09 (d). AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH SUBSECTION 726.08. THE INSIDE OF THE POTS SHALL NOT BE GALVANIZED OR METALIZED. ABUTMENT 2 BEARING COMPONENTS NEED NOT BE GALVANIZED OR METALIZED.
- THE STEEL SOLE PLATES SHALL BE HOT BONDED TO THE REINFORCED ELASTOMERIC PAD DURING THE VULCANIZATION PROCESS. ALL REQUIRED FABRICATION OF BEARINGS SHALL OCCUR BEFORE THE VULCANIZATION PROCESS. THE STEEL SURFACES TO BE BONDED TO THE PAD SHALL NOT BE METALIZED.
- ALL STEEL IN BEARING DEVICES SHALL BE AASHTO M270M/M270 GRADE 345, UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS SHALL BE ASTM A-449, TYPE I WITH A YIELD STRENGTH OF 400 MPA AND HAVE A MINIMUM EMBEDMENT OF 380MM INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08.
- ALL REINFORCEMENT BETWEEN LAYERS OF ELASTOMERIC SHALL BE STEEL AASHTO M270M/M270 GRADE 250. 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.
- THE ELASTOMER WAS DESIGNED WITH A SHEAR MODULUS RANGE = 0.65 TO 0.90 MPa.
- THE ELASTOMER AT ABUTMENT 1 SHALL MEET THE REQUIREMENTS OF LOW TEMPERATURE ZONE D, GRADE 4.
- THE CONCRETE UNDER THE BEARING DEVICE SHALL BE LEVEL.
- THE CONNECTION BETWEEN THE HIGH LOAD MULTI-ROTATIONAL BEARING AND SOLE PLATE AND THE HIGH LOAD MULTI-ROTATIONAL BEARING AND THE MASONRY PLATE SHALL BE DESIGNED AND DETAILED BY THE BEARING SUPPLIER.
- ALL DESIGNS DONE FOR THE BEARINGS SHALL BE PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4TH EDITION AND ITS LATEST REVISIONS.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.



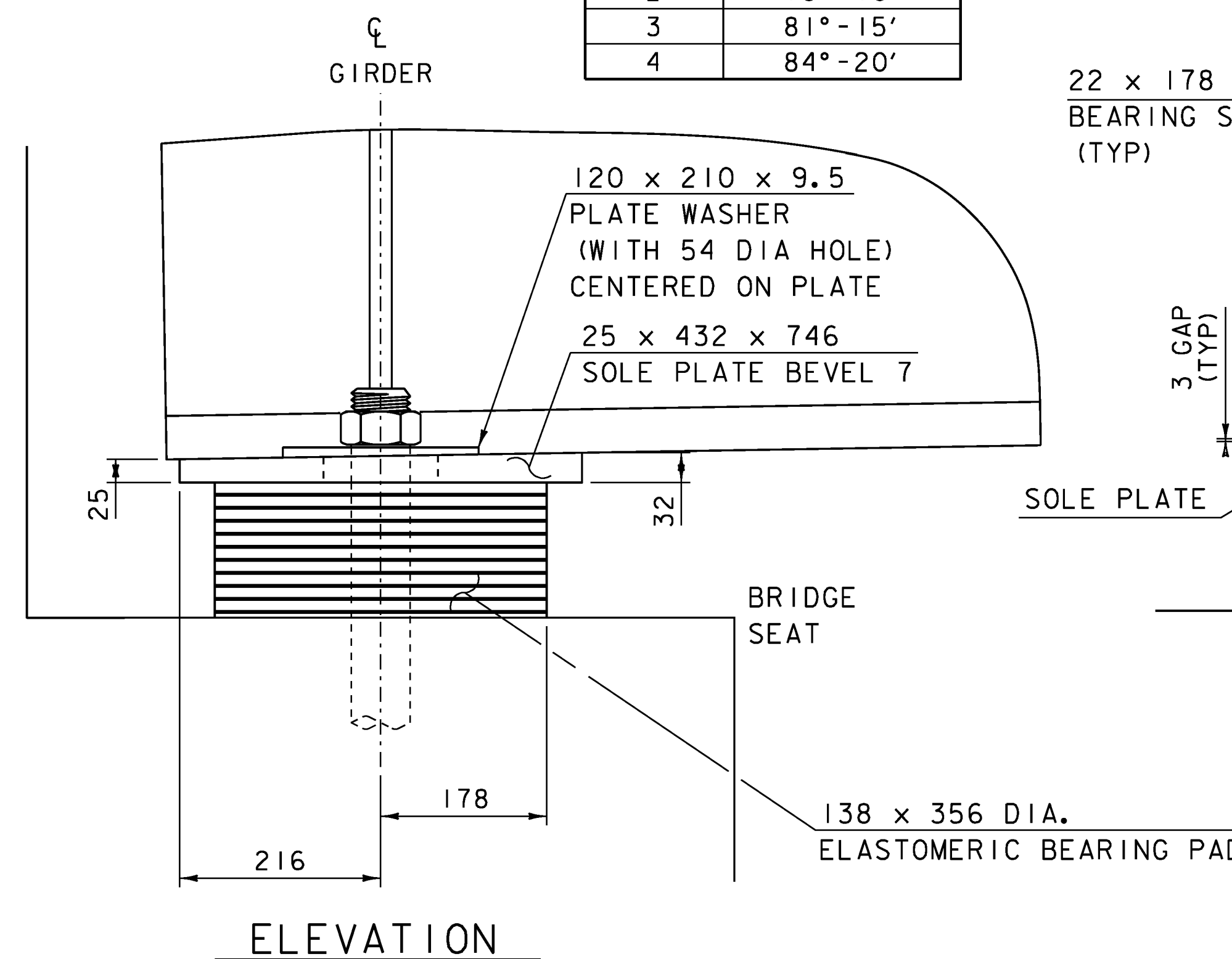
PLAN

GIRDER	'Y' ANGLE
1	75° - 10'
2	78° - 10'
3	81° - 15'
4	84° - 20'

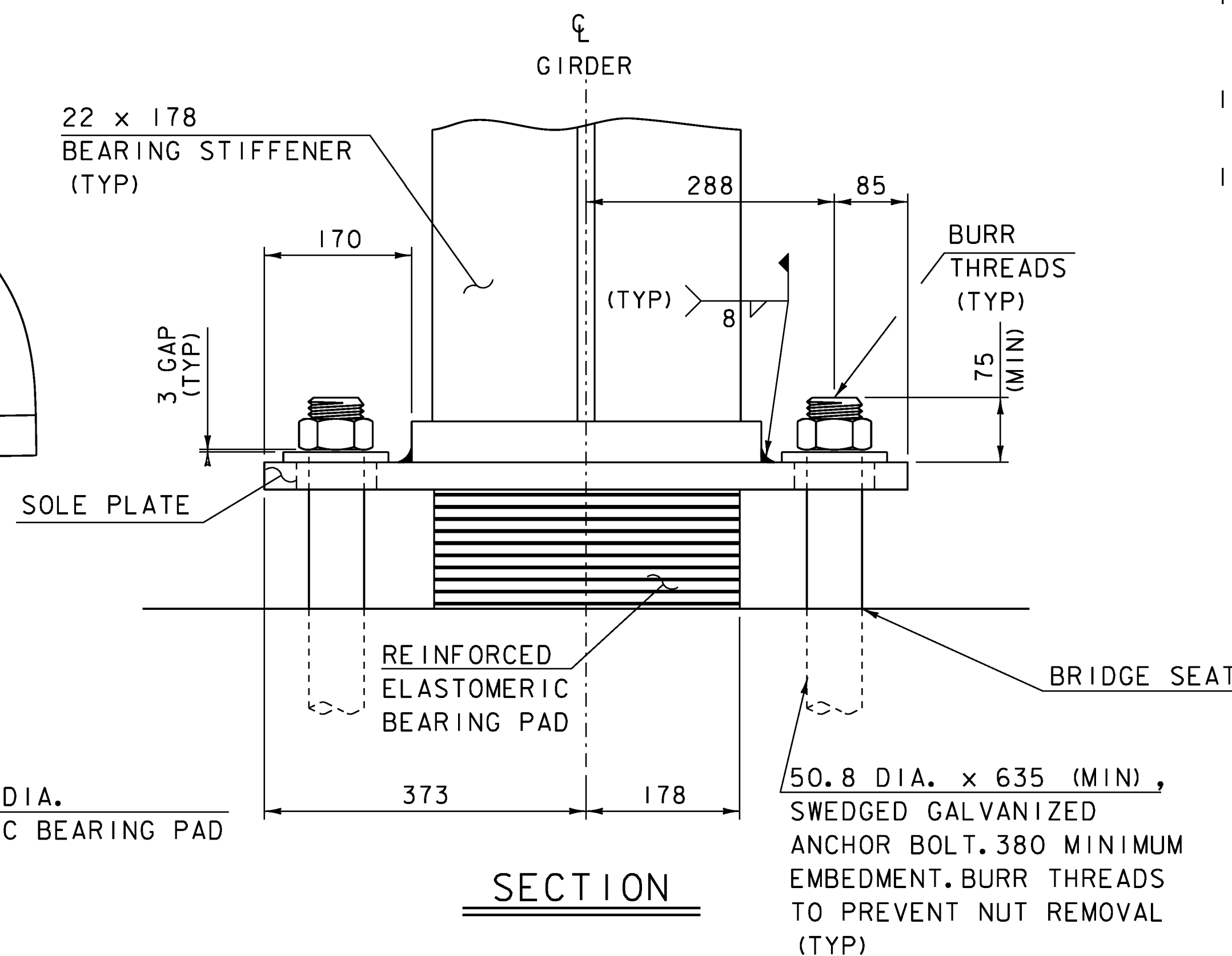


REINFORCED ELASTOMERIC PAD

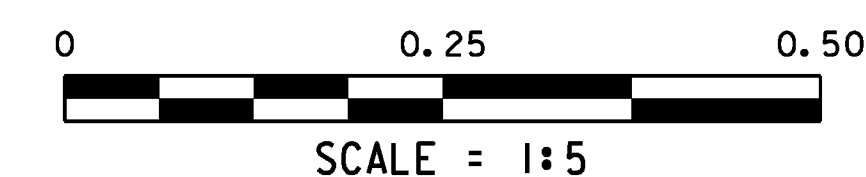
Design Load (kN)	Service Limit State	Vertical	Max	507
			Min	158
Strength Limit State			Permanent	197
			Transverse	60
			Longitudinal	40
			Vertical	803
Translation (mm)	Service Limit State	Irreversible	Transverse	0
			Longitudinal	6
		Reversible	Transverse	13
			Longitudinal	49
Rotation (rad)	Service Limit State	Irreversible	Transverse	0.005
			Longitudinal	0.008
		Reversible	Transverse	0.000
			Longitudinal	0.004



ELEVATION



SECTION



PROJECT NAME: CAMBRIDGE
PROJECT NUMBER: BRP 027-1(4)

FILE NAME: \s78f163brg.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: T. FILLBACH
EXPANSION BEARING ABUTMENT #1

PLOT DATE: 05-JUN-2012
DRAWN BY: R. PELLET
CHECKED BY: T. FILLBACH
SHEET 168 OF 214