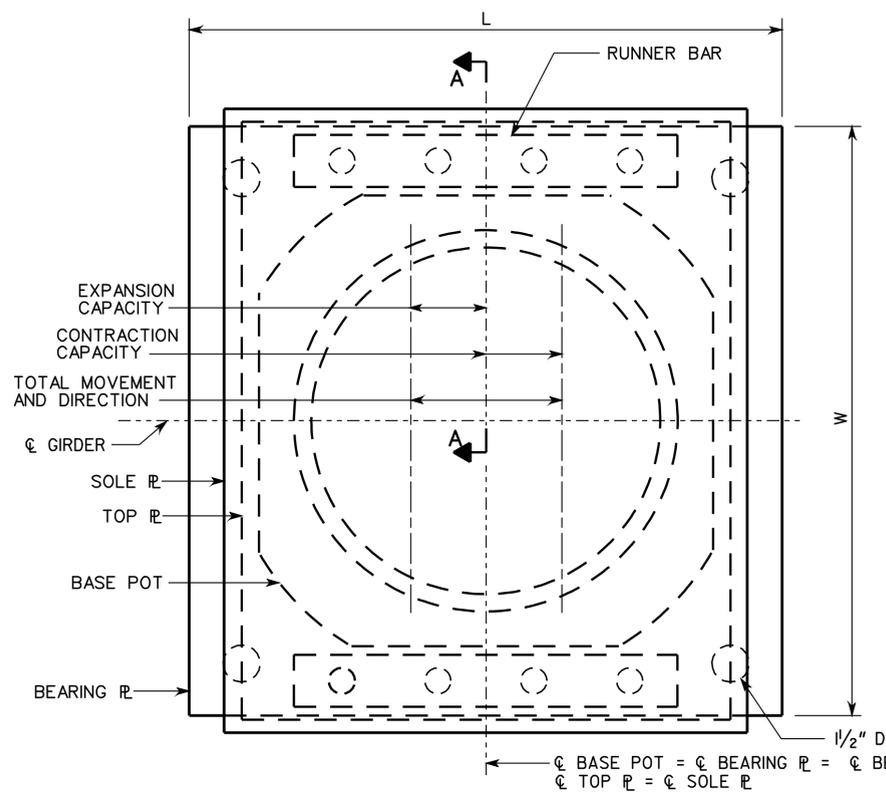


RELEASED FOR CONSTRUCTION 10-05-2010

BEARING ASSEMBLY NOTES

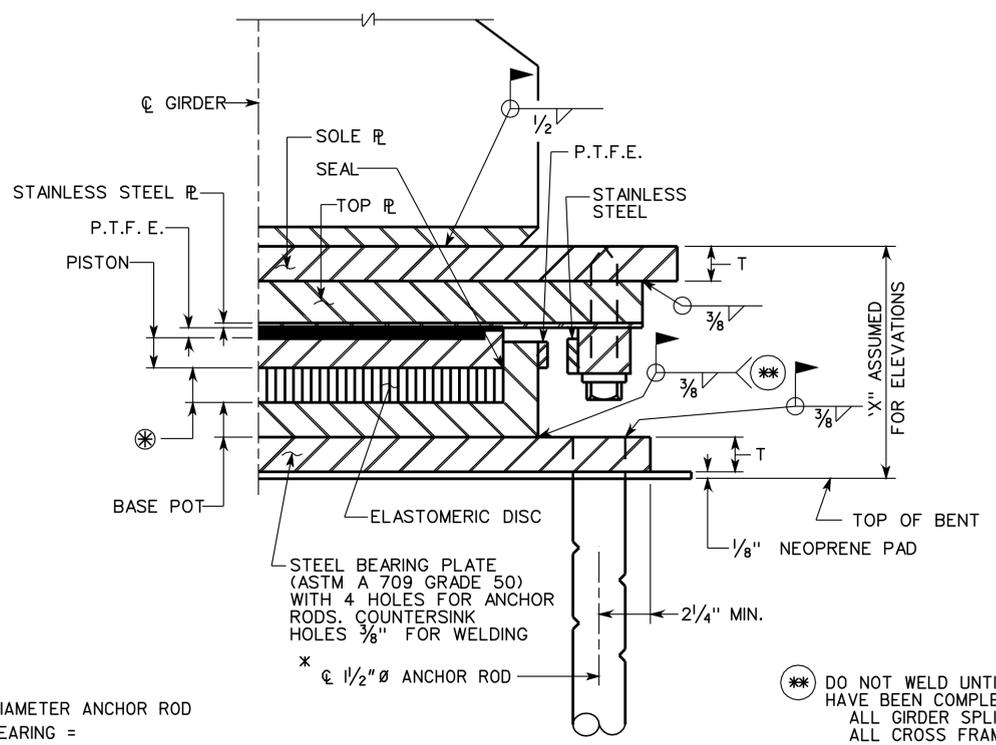
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSSTP-0008-00(65)	244	346

- SUPPLIER OF POT BEARINGS SHALL PROVIDE A SOLE PLATE AND BEARING PLATE OF SUFFICIENT SIZE TO LIMIT CONCRETE STRESSES TO THOSE SPECIFIED IN AASHTO SPECIFICATIONS. COST OF BEARING PLATES AND SOLE PLATES SHALL BE INCLUDED IN THE PRICE BID FOR POT BEARING.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE POT BEARINGS TO BE USED. NO BEARING ASSEMBLY SHALL BE FABRICATED UNTIL THE BEARING MANUFACTURER HAS SECURED APPROVAL ON THE ENGINEER.
- SEE SECTION 581 OF THE GEORGIA DOT SPECIFICATIONS FOR POT REQUIREMENTS.
- RUNNER BARS OR GUIDE KEYS SHALL BE ORIENTATED PARALLEL TO THE DIRECTION OF MOVEMENT ON GUIDED EXPANSION BEARINGS.
- THE EPOXY ADHESIVE FOR USE IN MAKING THE GROUT FOR SETTING THE ANCHOR RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE II GROUT OF SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS.
- ANCHORS RODS SHALL BE ASTM A 709 GRADE 50 STEEL, SWEDGED, AND NON-THREADED. RODS SHALL BE FLUSH WITH TOP OF BEARING PLATE, WELDED TO BEARING PLATE, AND GROUND FLUSH. COST OF ANCHOR RODS SHALL BE INCLUDED IN THE PRICE BID FOR POT BEARINGS.
- TOP OF SOLE PLATE SHALL BE BEVELED AT BENTS 7, 8, 9 & 10. SEE DETAILS BELOW.
- IF PLATES WITH DIMENSIONS OTHER THAN THOSE SHOWN ARE USED THE CONTRACTOR SHALL MAKE ALL NECESSARY DIMENSION AND ELEVATION ADJUSTMENTS. ANCHOR ROD LAYOUT ON BENT SHEETS IS BASED ON THE DIMENSIONS LISTED IN THE TABLE BELOW.
- POT BEARINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS AND THE LATEST AASHTO SPECIFICATIONS USING THE DESIGN DATA GIVEN BELOW. HORIZONTAL FORCES LISTED ARE IN ADDITION TO THOSE FORCES PRODUCED BY DEAD LOAD FRICTION.
- ELASTOMERIC MATERIAL USED AS THE CONFINED MEDIUM WITHIN THE POT SHALL BE 100 PERCENT VIRGIN NEOPRENE (CHLOROPRENE) MEETING THE REQUIREMENTS OF SECTION 885 OF THE GEORGIA DOT SPECIFICATIONS. THE ELASTOMER SHALL BE A MINIMUM GRADE 2 AND SHALL HAVE A DUROMETER HARDNESS OF 50 ± 5.
- BEFORE POURING THE FINAL 7'-0" OF SPAN 7 AND SPAN 9, THE GIRDERS SHALL BE JACKED AND THE POT BEARING SHALL BE CENTERED AS NEARLY AS PRACTICAL ABOUT THE EMBEDDED PLATE. THIS OPERATION SHALL BE PERFORMED AT APPROXIMATELY 60° F.



PLAN

GUIDED EXPANSION POT BEARING

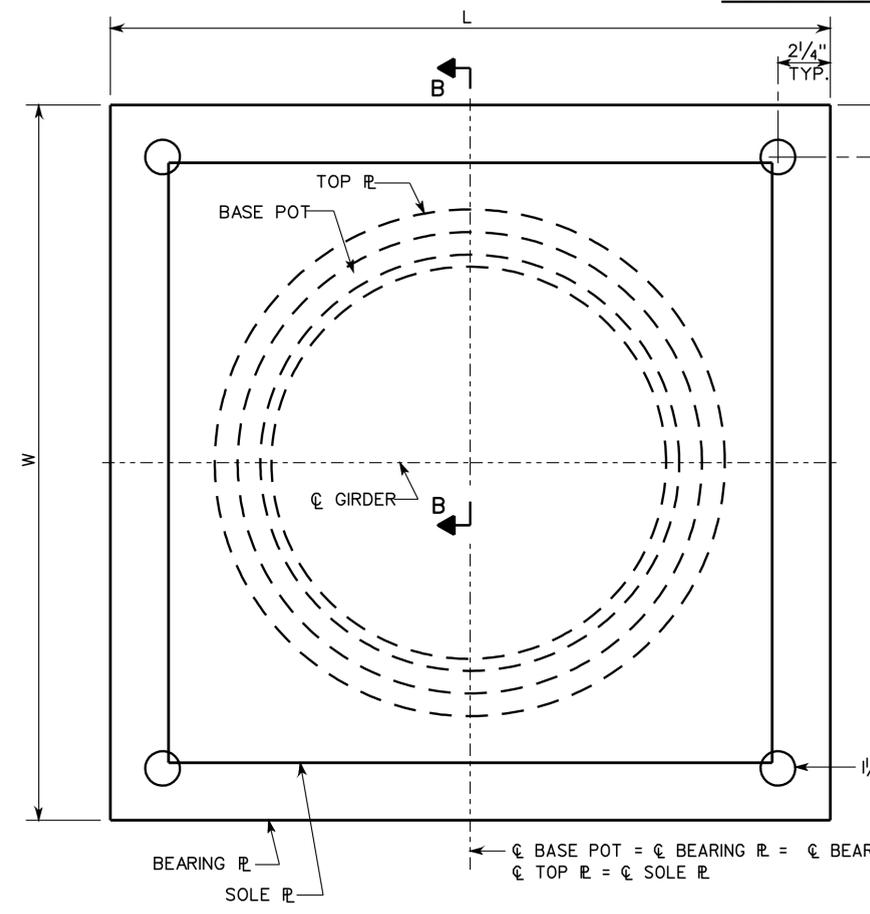


SECTION A-A

DO NOT WELD UNTIL ALL OF THE FOLLOWING HAVE BEEN COMPLETED:
 ALL GIRDER SPLICES HAVE BEEN COMPLETED.
 ALL CROSS FRAMES HAVE BEEN BOLTED INTO PLACE.
 FINAL POSITIONING OF THE GIRDER HAS BEEN ACCOMPLISHED.
 POT BEARING HAS BEEN ADJUSTED FOR THE TEMPERATURE EFFECTS SUCH THAT THE GIRDERS WILL ALIGN WITH GIRDERS AND BEARING STIFFENERS AT 60° F.

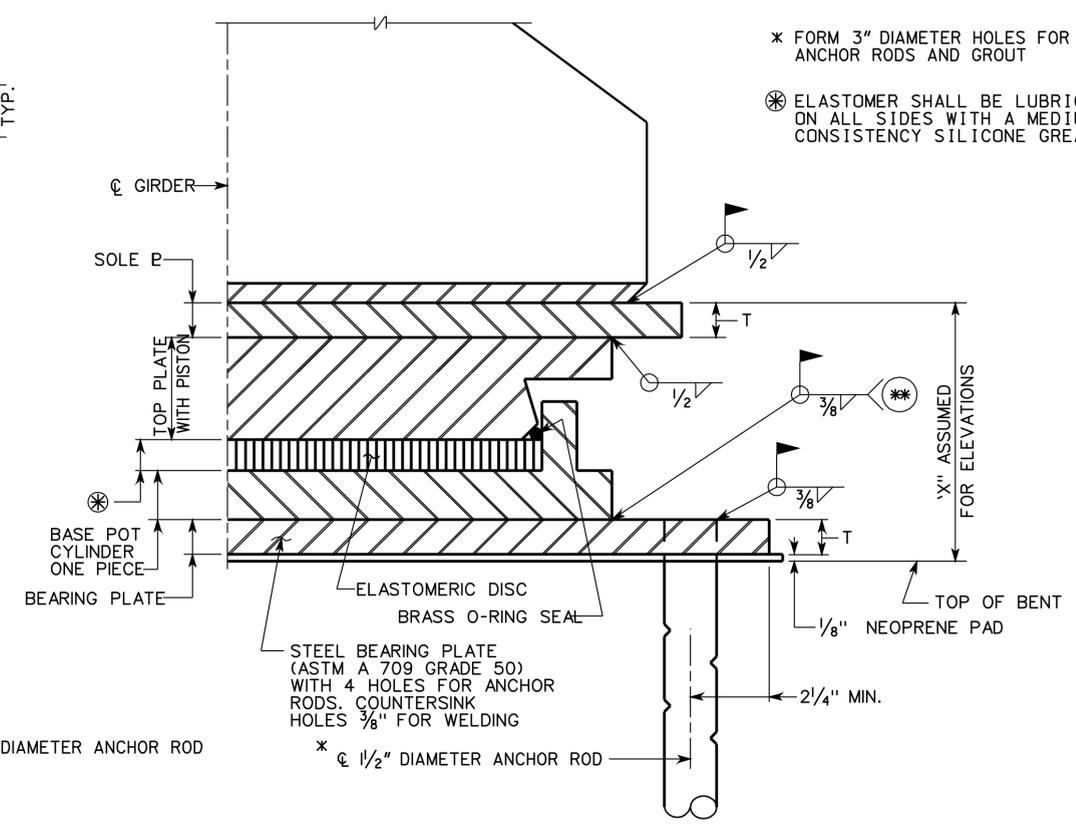
* FORM 3" DIAMETER HOLES FOR ANCHOR RODS AND GROUT

ELASTOMER SHALL BE LUBRICATED ON ALL SIDES WITH A MEDIUM CONSISTENCY SILICONE GREASE.



PLAN

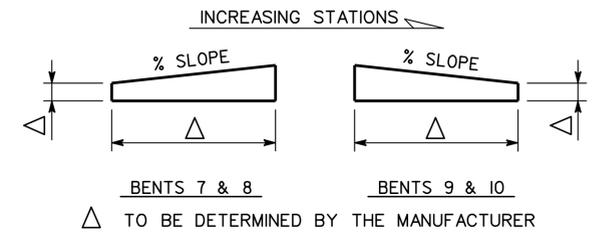
FIXED POT BEARING



SECTION B-B

POT BEARING DESIGN DATA				
ALL LOADS IN KIPS	BENT			
	7	8	9	10
TRANSVERSE HORIZONTAL FORCE	7	22	22	7
LONGITUDINAL HORIZONTAL FORCE	5	10	10	5
TRANSVERSE EARTHQUAKE FORCE	0	0	0	0
LONGITUDINAL EARTHQUAKE FORCE	0	0	0	0
TOTAL REACTION LOAD	272	1039	1039	272
DEAD LOAD	188	853	853	188
LIVE LOAD + IMPACT	84	186	186	84
CONTRACTION CAPACITY**	2"	0	0	2"
EXPANSION CAPACITY**	5/8"	0	0	5/8"
T (MIN.)	1 1/8"	1 3/4"	1 3/4"	1 1/8"
ΔX" AT c BEARING	6 1/2"	9 1/4"	9 1/4"	6 1/2"
BEARING PLATE L (MIN.)	19	32	32	19
BEARING PLATE W (MIN.)	19	32	32	19

** AT 60° F



SLOPE %	
BENT 7	2.1
BENT 8	1.0
BENT 9	-1.0
BENT 10	-2.1

SOLE PLATE DETAILS

BRIDGE NO. 1

THE LPA GROUP
 THE LPA GROUP INCORPORATED
 TRANSPORTATION CONSULTANTS
 3585 ENGINEERING DRIVE
 NORCROSS, GEORGIA 30092
 (770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
 PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

POT BEARING DETAILS
 SR 204 SPUR (DIAMOND CAUSEWAY)
 OVER SKIDAWAY NARROWS
 CHATHAM COUNTY CSSTP-0008-00(65)

SCALE: AS SHOWN
 OCTOBER 2010

DRAWING NO. 35-31	DESIGNED: SAD	CHECKED: DGH	REVIEWED: WMD / WEI
BRIDGE SHEET 31 OF 48	DRAWN: JNA / MDM	DESIGN GROUP: DGH	APPROVED: PVL