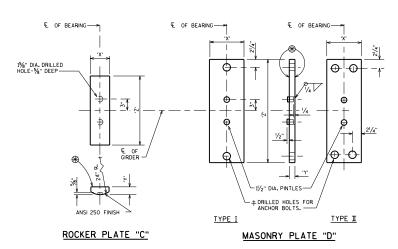
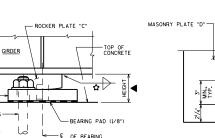
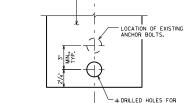
#### PLATE C PLATE D LENGTH OF PLATE "C" HEIGHT LOAD KIPS Y Ζ х Y Ζ FEET 10" 215 5" 2%" 10" 8" 13/4" 1' - 7'' 0.354 23/8" 1'-0" 9" 13/4" 0.354 260 5" 1'-9" 12" 280 23/8" 1'-0" 10" 2% 1'-9" 0.406 5" 280 5" 115%6" 1'-2" 9" 1¾" 1'-11" 0.318 335 5" 23/8" 1-2" 11" 2%" 1'-11'' 0.406 14" 385 5" 23/8" 1'-2" 1'-1" 21⁄8" 1'-11" 0.448 5" 23/8" 1-2" 1-3" 2 7/8" 2'-0" 0.448 410 275 5" 1%" 1'-4" 8" 1¾" 2'-1" 0.318 330 5" 1%" 1-4" 10" 2%" 2'-1" 0.370 390 5" 23/8" 1-4" 1-0" 23/8" 2'-1" 0.406 16 21⁄8" 465 5" 23/8" 1'-4" 1'-2" 2'-2" 0.448 23/8" 1'-4" 1'-4" 3% 0.490 490 5" 2'-2" 325 5" 1'%6" 1'-6" 9" 1¾" 0.318 2'-3" 390 5" 1%" 1-6" 11" 2%" 2-3" 0.370 18' 465 5" 2<sup>3</sup>/<sub>8</sub>" 1'-6" 1'-1" 2<sup>7</sup>/<sub>8</sub>" 2'-4" 0.448 495 5" 2%" 1-6" 1-2" 2%" 2-4" 0.448 560 5" 2%" 1-6" 1-4" 3%" 2'-4" 0.490 350 5" 1%" 1-8" 9" 1¾" 2'-5" 0.318 5" 1'%6" 1'-8" 10" 380 2%" 2'-5" 0.370 5" 23/8" 1'-8" 1'-0" 23/8" 460 2'-6" 0.406 20" 530 5" 23/8" 1-8" 1-2" 27/8" 2'-6" 0.448 600 23/8" 1'-8" 1'-4" 33/8" 2'-6" 5" 0.490 5" 23%" 1-8" 1-6" 37%" 2'-6" 640 0.531 405 5" 1%" 1'-10" 10" 2%" 2'-7" 0.370 490 5" 156" 1-10" 1-0" 238" 2-8" 0.370 565 5" 23/8" 1'-10" 1'-2" 21/8" 2'-8" 0.448 22" 635 5" 2<sup>3</sup>/<sub>8</sub>" 1-10" 1'-4" 3<sup>3</sup>/<sub>8</sub>" 2'-8" 0.490 705 5" 23%" 1-10" 1-6" 33%" 2'-8" 0.531 720 5" 23%" 1'-10" 1'-8" 37%" 2'-8" 0.531







+ DRILLED HOLES FOR NEW ANCHOR BOLTS.

€ OF BEARING

MASONRY PLATE "D"



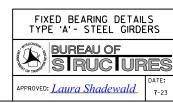
BEARING REPLACEMENTS

✿ FOR WELD SIZE, REFER TO STANDARD 24.02 ▲ ADJUST HEIGHT IF BEVELED ROCKER PLATE "C" IS USED. FOR BEARING REPLACEMENTS, DESIGNER SHALL UTILIZE A WIDER BEARING THAN THE EXISTING GRIDER BOTTOM FLANCE WIDTH TO ALLOW FOR FIELD WELDING OF THE EDGE OF THE BOTTOM FLANCE TO THE TOP OF PLATE "C".

CALCULATE THE REACTION AT THE BEARINGS DUE TO "TOTAL LOADS". USE THE AASHTO LRFD SERVICE I LOAD COMBINATION. CONSIDER ONLY DEAD LOAD (DC + DW) AND HL-93 LIVE LOADS (LL), INCLUDING A 33% DTNAMIC LOAD ALLOWANCE (MM. THE VALUES IN THE TABLES ARE THE BEARING CAPACITIES FOR "TOTAL LOAD" (DC + DW + (LL + IM)). SELECT A BEARING THAT HAS A CAPACITY GREATER THAN OR EQUAL TO THE CALCULATED REACTION FOR "TOTAL LOADS".

DESIGNER NOTES

SEE STANDARD 40.08 FOR DETAILS.



# BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT & OF GIRDER AND & OF BEARING. IN LIEU OF USING SHIM PLATES, FABRICATOR MAY INCREASE THICKNESS OF MASONRY PLATE "D" BY THE SHIM PLATE THICKNESS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SUMFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2/4", ABOVE TOP OF CONCRETE.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR ASTM A572 GRADE 50.

ALL MATERIAL IN TYPE "A" BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES FIXED B-\_-", EACH.

CHAMFER TOP OF PINTLES  $^{|\prime}_{8}$ ". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ROCKER PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER. MASONRY PLATE "D" SHALL BE GALVANIZED

PLACE SHIM PLATES BETWEEN BEARING PAD AND MASONRY PLATE "D". PLATES SHALL HAVE 'X'AND 'Z'DIMENSIONS THAT MATCH MASONRY PLATE "D".

 $\pm$  DRILLED HOLES FOR ANCHOR BOLTS IN MASONRY PLATE "D" SHALL HAVE A DIAMETER  $3\!$  LARGER THAN ANCHOR BOLT.

HEAD STATES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

HEIGHT OF BEARINGS GIVEN IN TABLE INCLUDES 1/8" BEARING PAD.

DETAIL SHIM PLATES AS DESCRIBED IN NOTES ON STANDARD 24.02.

REFER TO THE DETAILS BELOW FOR THE USE OF BEVELED ROCKER PLATE "C" ON GRADES GREATER THAN 3% AND ALSO CLEARANCE REQUIREMENTS.

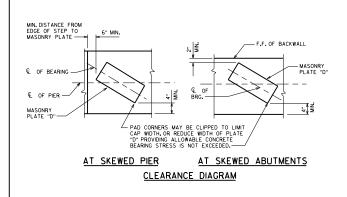
#### ANCHOR BOLT NOTES

FOR SPAN LENGTHS UP TO 100"-0": USE A TYPE I MASONRY PLATE "D" WITH (2) - 1<sup>1</sup>/4" DIA. × 1'-5" LONG ANCHOR BOLTS.

FOR SPAN LENGTHS FROM 100'-0" UP TO 150'-0": USE A TYPE I MASONRY PLATE "D" WITH (2) - 1/2" DIA. × 1'-10" LONG ANCHOR BOLTS.

FOR SPAN LENGTHS GREATER THAN 150'-0": USE A TYPE II MASONRY PLATE "D" WITH (4) -  $1^{1}\!/_{2}$ " DIA.  $\times$  1'-10" LONG ANCHOR BOLTS.

CHECK THAT ANCHOR BOLTS PROVIDE ADEQUATE HORIZONTAL CAPACITY.



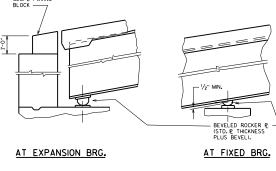
MASONRY PLATE "D'

LOCATE ANCHOR BOLTS-AS INDICATED FOR MASONRY PLATE "D". FOR SIZE, LENGTH, AND NUMBER SEE ANCHOR BOLT NOTES.

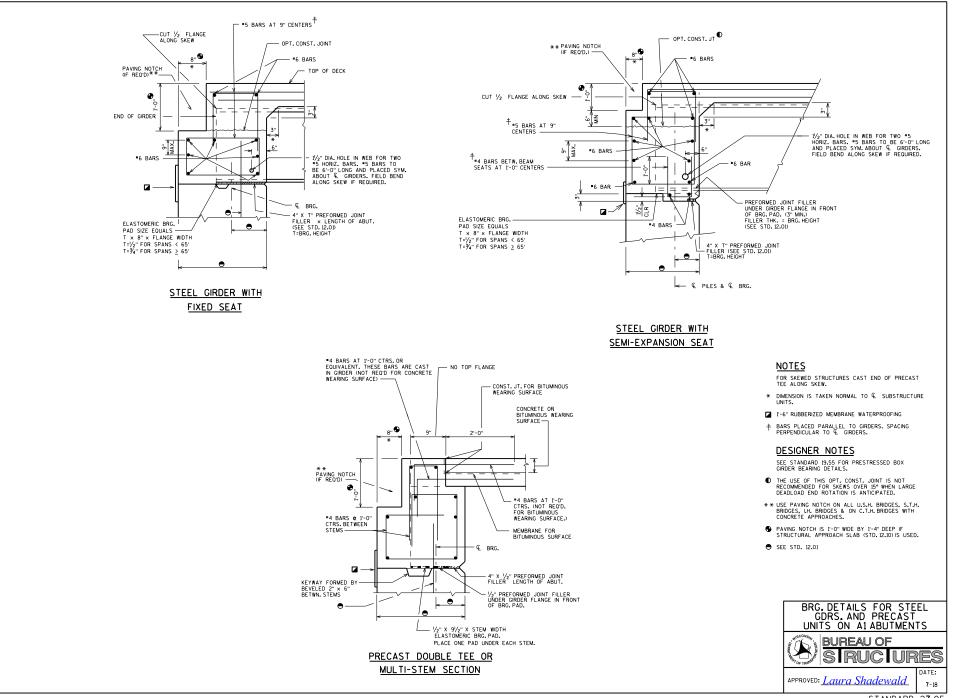
FIXED BEARING ASSEMBLY

(SEE "DESIGNER NOTES" FOR BEARING REPLACEMENTS)

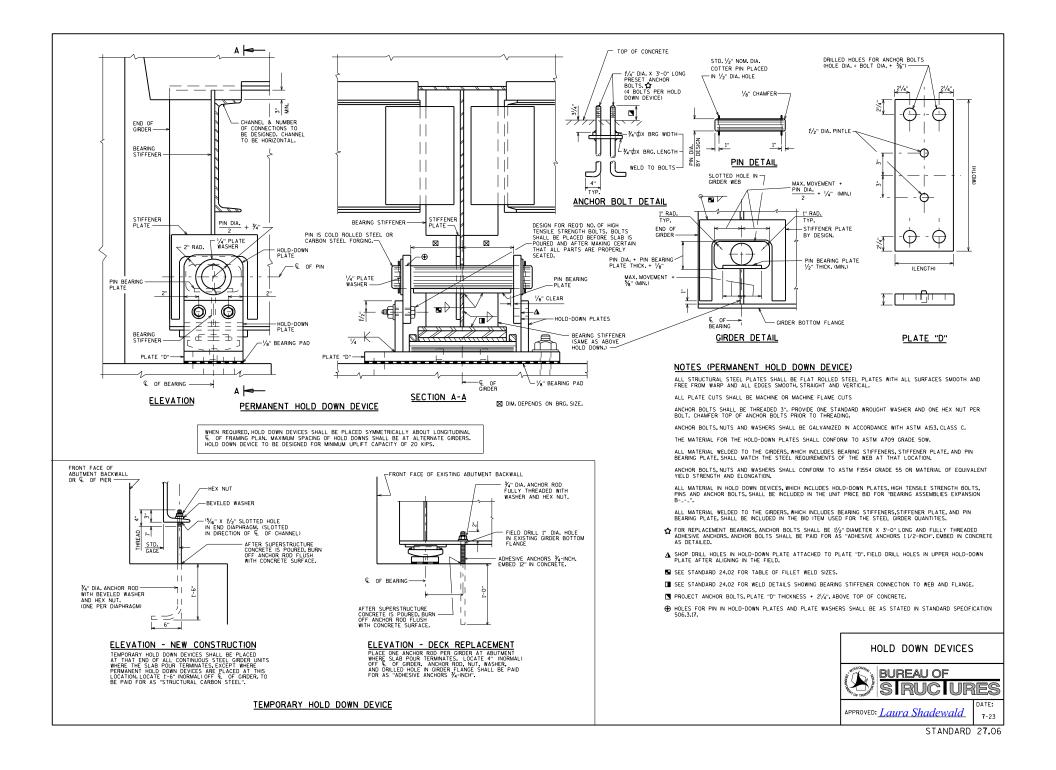
SLOPE PAVING

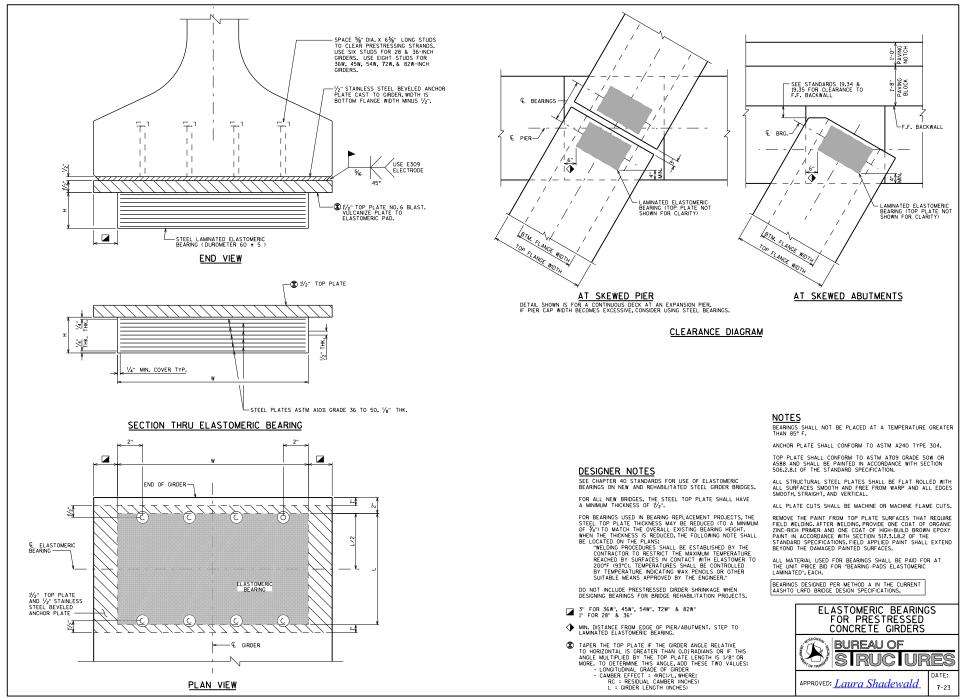


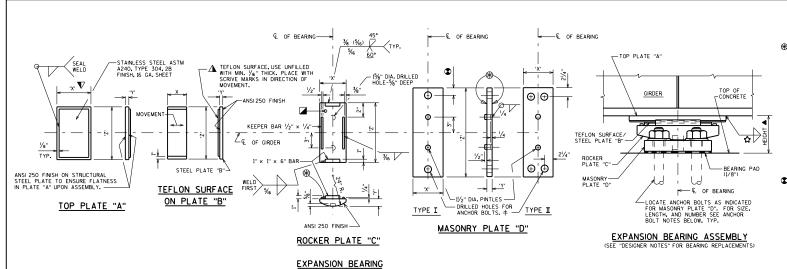
#### BEVELED ROCKERS WITH GRADES GREATER THAN 3%



STANDARD 27.05







#### 10" BEARING

-													
TOTAL LOAD	PLATE A			PL	PLATE B			PLATE C			PLATE D		
(KIPS)	х	Y	Z	х	Y	Z	х	Y	Z	х	Y	Z	FEET
100	9"	%"	10"	5"	1/2"	10"	7"	17/16 ''	1'-0 <sup>1</sup> /4"	8"	11/2"	1'-8''	0.360
180	I' - I''	%"	10"	9"	1/2"	10"	11"	2 <b>%</b> "	1'-0 <sup>1</sup> /4"	8"	1½"	1'-8"	0.438
260	1'-5"	%"	10"	1'-1"	1/2"	10"	1'-3"	3%"	1'-0!⁄4"	11"	2"	1'-8"	0.604

14" BEARING
-------------

TOTAL			PL	PLATE B			PLATE C			PLATE D			
(KIPS)	х	Y	Z	х	Y	Z	х	Y	Z	х	Y	Z	FEET
210	11"	%"	1'-2"	7"	1/2"	1'-2''	9"	115/16 ''	1'-4'/4"	8"	11/2"	2'-0"	0.401
375	1'-5"	%"	1'-2"	I'-I''	1/2"	1'-2"	1'-3"	3%"	1'-4'/4"	1'-2"	27⁄8"	2'-0"	0.677
500	1'-9"	5⁄8"	1'-2"	1'-5"	1⁄2"	1'-2"	1-7"	4 7⁄8"	1'-4'/4"	I'-5"	3¾"	2"-1"	0.802

# 18" BEARING

TOTAL PLAT		ATE	A	PLATE B			PLATE C			PLATE D			HEIGHT
(KIPS)	х	Y	Ζ	х	Y	Z	×	Y	Z	х	Y	Z	FEET
280	11"	%"	1'-6"	7"	1/2"	1'-6"	9.	1%;	1'-81/4"	9"	2"	2'-4"	0.443
360	1'-1"	%"	1'-6"	9"	1/2"	1'-6"	11"	2¾"	1'-8 <sup>1</sup> /4"	11"	2"	2'-4"	0.479
600	1'-7"	%"	1'-6"	1'-3"	1/2"	1'-6''	1'-5"	3½"	1'-8!/4"	1'-5"	3¾"	2'-5"	0.719
650	1'-11"	%"	1'-6''	1'-7"	1/2"	1'-6"	1'-9"	4 7⁄8"	1'-81/4"	1'-10''	3%"	2'-5"	0.844

#### 12" BEARING

TOTAL LOAD	PLATE A			PLATE B			PLATE C			PL	HEIGHT		
(KIPS)	x	Y	Ζ	х	Y	Z	х	Y	Z	х	Y	Z	FEET
125	9"	5∕8"	1'-0"	5"	1/2"	1'-0''	7"	11/16 "	1'-21/4"	8"	1½"	1'-10''	0.360
175	11"	‰"	1'-0"	7"	1/2"	1'-0"	9"	115%6 "	1'-21/4"	8"	1½"	1'-10''	0.401
275	1'-3"	%"	1'-0"	11"	1/2"	1'-0"	1'-1"	2 7⁄8"	1'-2'/4"	11"	2"	1'-10''	0.521

## 16" BEARING

TOTAL LOAD (KIPS)	PLATE A			PLA	PLATE B			PLATE C			PLATE D		
	х	Y	Z	х	Y	Z	х	Y	Z	х	Y	Z	FEET
245	11"	%"	1'-4"	7"	1/2"	1'-4''	9"	115%6 "	1'-61/4"	8"	11/2"	2'-2"	0.401
370	1'-3"	%"	1'-4''	11"	1/2"	l'-4"	1'-1"	2 7⁄8"	1'-6 <sup>1</sup> /4"	1'-0"	23%"	2'-3"	0.552
525	1'-7"	%"	1'-4''	1'-3"	1/2"	l'-4"	I'-5"	3%"	1'-6 <sup>1</sup> /4''	1'-4"	3%"	2'-3"	0.719
5 <b>7</b> 5	1'-9"	%"	1'-4"	1'-5"	1/2"	1'-4"	I'-7"	4 7⁄8"	1'-61⁄4"	1'-6"	3%"	2'-3"	0.844

## 20" BEARING

TOTAL LOAD	PL/	PLATE A			PLATE B			PLATE C			PLATE D		
(KIPS)	х	Y	Z	х	Y	Z	х	Y	Z	х	Y	Z	FEET
225	9"	%"	1'-8''	5"	1/2"	1'-8"	7"	1¾6 "	1'-101/4"	8"	1½"	2'-6"	0.360
315	11"	%"	1'-8"	7"	1/2"	1'-8"	9"	1º5/16 ''	1'-10 <sup>1</sup> /4''	9"	2"	2'-6"	0.443
495	1-3"	%"	1'-8''	11"	1⁄2"	1'-8"	1'-1"	2 7⁄8"	1'-101/4"	1'-1"	2 1⁄8"	2'-7"	0.594
675	1'-7"	%"	1'-8''	1'-3"	1/2"	1'-8"	1'-5"	3 7/8"	1'-101/4"	1'-6"	3%"	2'-7"	0.760
705	1'-11"	%"	I'-8''	1'-7"	1/2"	1'-8"	1'-9"	4 7⁄8"	1'-10'/4"	1'-11''	3%"	2'-7"	0.844

## DESIGNER NOTES

HEIGHT OF BEARINGS GIVEN IN TABLES INCLUDES  $I\!/_{8}"$  BEARING PAD, 16 GAGE STAINLESS STEEL SHEET AND  $I\!/_{16}"$  TEFLON SURFACE.

DETAIL SHIM PLATES AS DESCRIBED IN NOTES ON STANDARD 24.02.

SEE STANDARD 27.02 FOR THE USE OF BEVELED ROCKER PLATE "C" ON GRADES GREATER THAN 3% AND ALSO CLEARANCE REQUIREMENTS.

At abutments, when the 'X' dimension of plate "A" exceeds 11", increase standard distance from  ${\bf C}$  of bearing to end of girder.

✿ FOR WELD SIZE, REFER TO STANDARD 24.02.

▲ ADJUST HEIGHT IF BEVELED ROCKER PLATE "C" IS USED.

FOR BEARING REPLACEMENTS, DESIGNER SHALL UTILIZE A WIDER BEARING THAN THE EXISTING GIRDER BOITTOM FLANCE WIDTH TO ALLOW FOR FIELD WELDING OF THE EDGE OF THE BOITTOM FLANGE TO THE TOP OF PLATE "A". SEE STANDARD 40.08 FOR DETAILS.

FOR BEARING REPLACEMENTS, SEE STD. 27.02 FOR MINIMUM ANCHOR BOLT CLEARANCE INFORMATION.

▼ DIMENSION 'X'SHOWN FOR TOP PLATE 'A' IS A MINIMUM. PROVIDE ADEQUATE LENGTH TO ENSURE PLATE 'B'IS ALWAYS COVERED FOR ALL EXPECTED MOVEMENTS. SEE STD. 27.10 FOR ADDITIONAL GUIDANCE.

CALCULATE THE REACTIONS AT THE BEARINGS DUE TO "TOTAL LOADS" AND ALSO "DEAD LOADS" ONLY. USE THE AASHTO LAFD SERVICE LOAD COMBINATION. CONSIDER ONLY DEAD LOAD (DC + DW) AND HL-93 LIVE LOADS (LL). INCLUDING A 33% DYNAMIC LOAD ALLOWANCE (M).

THE VALUES IN THE TABLES ARE THE BEARING CAPACITIES FOR "TOTAL LOAD" (DC + DW + (LL + IM)). TAKE 60% OF THE VALUES IN THE TABLES TO DETERMINE THE BEARING CAPACITIES FOR "DEAD LOAD" ONLY (DC + DW).

SELECT A BEARING THAT HAS A "TOTAL LOAD" CAPACITY GREATER THAN OR EQUAL TO THE CALCULATED "TOTAL LOAD" REACTION AND ALSO A "DEAD LOAD" CAPACITY GREATER THAN OR EQUAL TO THE CALCULATED "DEAD LOAD" REACTION.

# ANCHOR BOLT NOTES

FOR SPAN LENGTHS UP TO 100'-0": USE A TYPE I MASONRY PLATE "D" WITH (2) - 1/4" DIA.  $\times$  1'-5" LONG ANCHOR BOLTS.

FOR SPAN LENGTHS FROM 100'-0" UP TO 150'-0": USE A TYPE I MASONRY PLATE "D" WITH (2) -  $1/_2$ " DIA.X 1'-10" LONG ANCHOR BOLTS.

FOR SPAN LENGTHS GREATER THAN 150'-0": USE A TYPE II MASONRY PLATE "D" WITH (4) -  $1/\!\!/_2$ " DIA.X 1'-10" LONG ANCHOR BOLTS.

CHECK THAT ANCHOR BOLTS PROVIDE ADEQUATE HORIZONTAL CAPACITY.

# BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT  $\mathbb Q$  of Girder and  $\mathbb Q$  of Bearing.

✤ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED, TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDBALE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OT TEFLON SURFACES.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM ATO9 GRADE 50W.

IN LIEU OF USING SHIM PLATES, FABRICATOR MAY INCREASE THICKNESS OF TOP PLATE "A" OR MASONRY PLATE "D" BY THE SHIM PLATE THICKNESS.

DIMENSION IS 2" WHEN 1<sup>1</sup>/4" DIA. ANCHOR BOLTS ARE USED AND 2<sup>1</sup>/4" WHEN 1<sup>1</sup>/2" DIA. ANCHOR BOLTS ARE USED.

ALL MATERIAL IN TYPE "A-T" BEARINGS, INCLUDING SHM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-\_-", EACH.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

PROVIDE  ${\not\!/}_8$  THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS, MASONRY PLAITE "D" THICKNESS +  $2^{1}/4$ ", ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES  $\gamma_8$ ". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR ASTM A572 GRADE 50.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

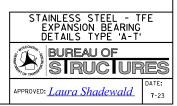
PLACE SHIM PLATES BETWEEN BEARING PAD AND MASONRY PLATE "D".PLATES SHALL HAVE 'X'AND 'Z' DIMENSIONS THAT MATCH MASONRY PLATE "D".

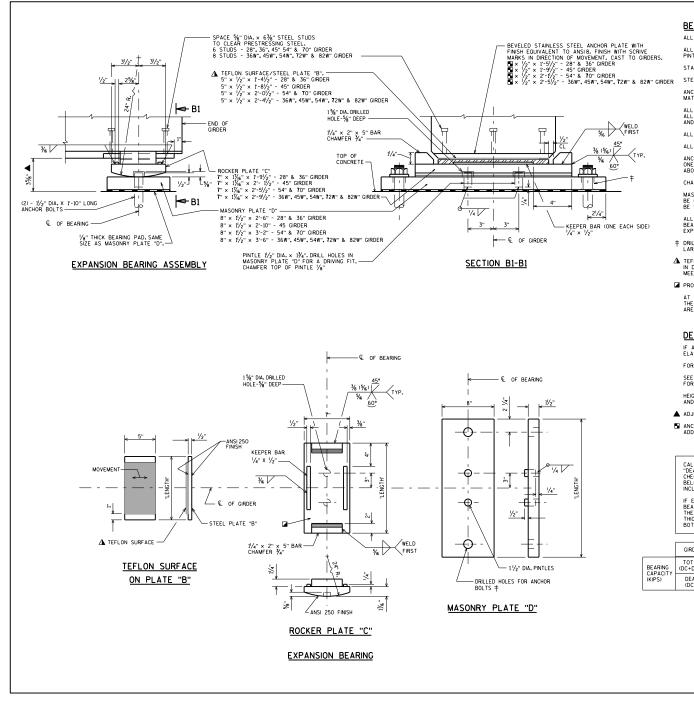
PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

▲ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING THE REQUIREMENTS FOUND IN THE STANDARD SPECIFICATION.

DRILLED HOLES FOR ANCHOR BOLTS IN MASONRY PLATE "D" SHALL HAVE A DIAMETER %" LARGER THAN ANCHOR BOLT.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TEE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, OR ANY OTHER FOREIGN MATTER.





# BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT € OF GIRDER AND € OF BEARING.

ALL MATERIAL IN BEARINGS BUT EXCLUDING STAINLESS STEEL PLATE TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STAINLESS STEEL PLATE SHALL CONFORM TO ASTM A240, TYPE 304.

GIRDER STEEL PINTLES SHALL CONFORM TO ASTM A449 OR ASTM A572 GRADE 50.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS +  $2^{1}\!/_{4^*}$ , ABOVE TOP OF CONCRETE.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

MASONRY PLATE "D" ROCKER PLATE "C" ANCHOR BOLTS, NUTS AND WASHERS SHALL BE CALVANIZED IN ACCORDANCE WITH ASTM AIS3, CLASS "C". STEEL PLATE "B" SHALL BE SHOP PANTED.OD. NOT PAINT TEFLON SURFACE.

ALL MATERIAL IN "STEEL BEARINGS FOR PRESTRESSED CONCRETE GIRDERS", INCLUDING BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLES EXPANSION B---", EACH.

 $\ddagger$  Drilled holes for anchor bolts in masonry plate "d" shall have a diameter % " larger than anchor bolt.

 $\Delta$  TEFLON SURFACE, USE UNFILLED WITH MINIMUM  $/\!/_6"$  THICKNESS. PLACE WITH SCRIVE MARKS IN DIRECTION OF MOVEMENT, BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING THE REQUIRENTS FOUND IN THE STANDARD SPECIFICATION.

PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND ANY OTHER FOREION MATTER.

#### DESIGNER NOTES

IF ALL BEARINGS AT A GIVEN SUBSTRUCTURE UNIT ARE FIXED, UTILIZE  $1\!\!/_2$  THICK ELASTOMERIC BEARING PADS AND FULL-DEPTH CONCRETE DIAPHRAGMS.

FOR EXPANSION BEARINGS, USE LAMINATED ELASTOMERIC BEARINGS WHENEVER POSSIBLE.

SEE STANDARD 27.02 AND 19.31 FOR CLEARANCE REQUIREMENTS AND STANDARD 27.02 FOR THE USE OF DEVELED ROCKER PLATE "C" ON GRADES GREATER THAN 3%. HEIGHT OF BEARING SHOWN IN "EXPANSION BEARING ASSEMBLY" INCLUDES  $V_8$ " BEARING PAD AND  $V_8$ " TEFLON SURFACE.

▲ ADJUST HEIGHT IF BEVELED ROCKER PLATE "C" IS USED.

-

ANCHOR PLATE LENGTH TO BE DESIGNED. MINIMUM LENGTH IS 10". SEE STD. 27.10 FOR ADDITIONAL GUIDANCE.

	CALCULATE THE REACTIONS AT THE BEARNICS DUE TO "TOTAL LOADS" AND ALSO "DEAD LOADS" ONLY USE THE AASTHO LAFD SERVICE I LOAD COMENIATION AND CHECK TO SEE IF THE REACTIONS EXCEED THE BEARNIC CAPACITES IN THE TABLE BELOW. CONSIDER ONLY DEAD LOAD OC + DW AND HL-93 LIVE LOADS (LL), INCLUDING A 33% DYNAMIC LOAD ALLOWANCE (MM).												
	BEARING DETAIL THE BEARING C	S AS SHOWN APACITY.IF BE ATER THAN 2	ON THIS S ARING DE , THEN PR	TANDARD MUS	EARING CAPACITY, THE ST BE MODIFIED TO INCREASE ANGED AND ANY PLATE HAS A 51250 FINISH TO TOP AND								
	GIRDER SIZE	28" & 36"	45"	54" & 70"	36W", 45W", 54W", 72W" & 82W"								
,	TOTAL LOAD (DC+DW+(LL+IM))	180	230	280	330								
	DEAD LOAD (DC + DW)	110	140	170	200								
	STEEL BEARINGS FOR PRESTRESSED CONCRETE GIRDERS												
				OF THE CONSING	BUREAU OF								

APPROVED: Laura Shadewald

STANDARD 27.09

