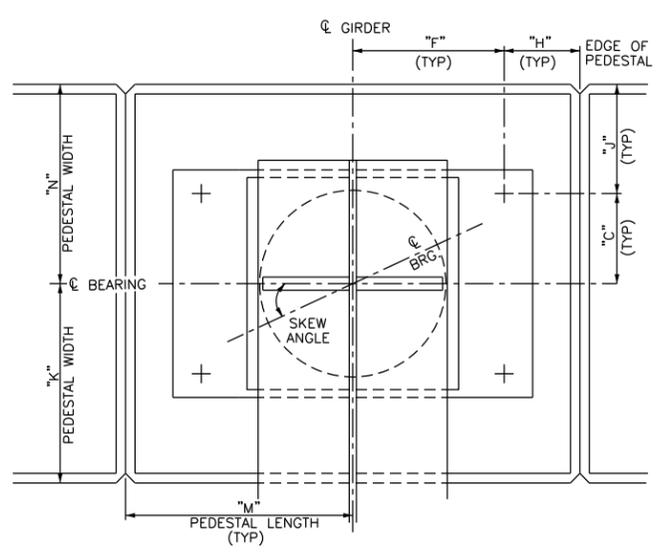
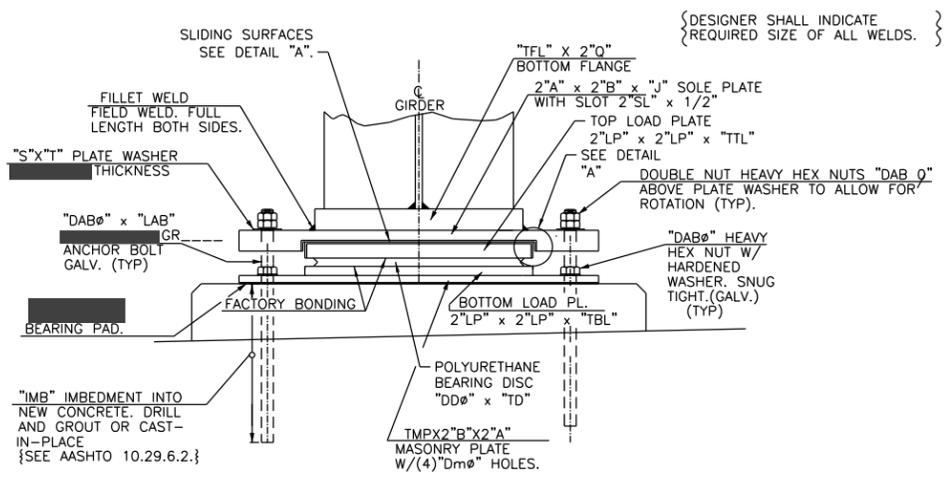


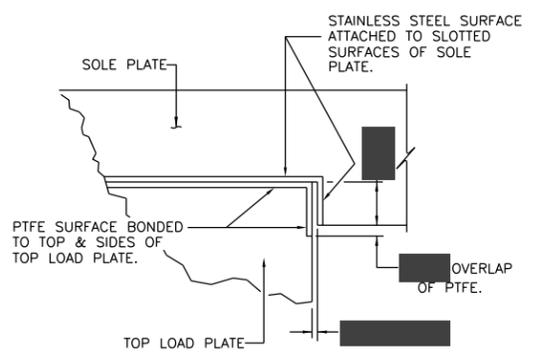
PLAN VIEW



TYPICAL BEARING ANCHOR BOLT LAYOUT



SECTION A-A



DETAIL "A"

MULTI-ROTATIONAL DISC-TYPE BEARING NOTES:

EXPANSION BEARING INSTALLATION AND ALIGNMENT: THE SOLE PLATE SHALL BE SET ACCORDING TO THE TABLE BELOW. THE DISC BEARING COMPONENTS AND MASONRY PLATE SHALL NOT BE OFFSET FROM THE CENTERLINE OF BEARING STIFFENER BY MORE THAN ONE-HALF THE THICKNESS OF THE FLANGE AT THAT LOCATION, OR THE THICKNESS OF THE BEARING STIFFENER, WHICHEVER IS THE LESSER DISTANCE LONGITUDINALLY FROM THE CENTERLINE OF THE BEARING STIFFENER.

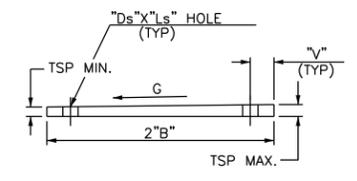
THE CONTRACTOR, FABRICATOR OR THRUWAY AUTHORITY, WHICHEVER IS APPLICABLE, SHALL SUPPLY MULTI-ROTATIONAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF THE BEARING ITEM SHOWN AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENTS SHOWN ON THESE PLANS.
2. THE HEIGHT OF THE BEARING BETWEEN THE SOLE PLATE AND THE MASONRY PLATE REPRESENTS THE ASSUMED TOTAL HEIGHT OF THE BEARING MECHANISM USED BY THE DESIGNER TO ESTABLISH CONCRETE DIMENSIONS. THE CONTRACTOR SHALL RECOMPUTE ALL TOP OF PEDESTAL ELEVATIONS TO ACCURATELY REFLECT THE HEIGHT OF BEARINGS SUPPLIED.
3. THE MASONRY PLATES SHOWN HAVE BEEN DESIGNED TO SUIT TYPICAL BEARINGS FOR THE DESIGN LOADS AND MOVEMENTS SHOWN. THE ALLOWABLE CONCRETE BEARING STRESS SHALL BE

4. THE BEARING DEVICE, MASONRY PLATE, BEARING PAD, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHERS, AND PLATE WASHERS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 565.15(21-25) - "TYPE MR EXPANSION BEARING".
5. ALL BEARING CONNECTIONS SHALL BE CAPABLE OF RESISTING A LATERAL FORCE EQUAL TO THE VERTICAL DESIGN DEAD LOAD AND SUPERIMPOSED DEAD LOAD HORIZONTALLY IN ANY DIRECTION.
6. THE STEEL FOR THE BEARINGS SHALL BE UNLESS OTHERWISE NOTED.
7. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM) UNLESS OTHERWISE NOTED.
8. ANY ADJUSTMENTS IN ELEVATION NECESSARY TO ACCOMMODATE THE ACTUAL BEARING THAT IS SUPPLIED SHALL BE MADE BY CHANGING THE TOP OF THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT ALLOWED WILL BE NO CHANGE IN THE BRIDGE SEAT ELEVATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE D.S.D. IN LIEU OF CHANGING PEDESTAL ELEVATIONS THE CONTRACTOR MAY ELECT ONE OF THE FOLLOWING AT NO ADDITIONAL COST TO THE THRUWAY AUTHORITY:
 - A. USE A SHIM PLATE UNDER THE MASONRY PLATE. THE SIZE AND MATERIAL OF THE SHIM PLATE SHALL BE THE SAME AS THE MASONRY PLATE. ONLY ONE SHIM PLATE SHALL BE PERMITTED AND THE MINIMUM THICKNESS SHALL BE
 - B. INCREASE THE THICKNESS OF THE MASONRY PLATE.
9. ANCHOR BOLTS, WASHERS, PLATE WASHERS, AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SPECIFICATION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS". THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE FOR THE BEARING ITEM.
10. THE MASONRY PLATE AND SOLE PLATE SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
11. THE TOP AND BOTTOM LOAD PLATES SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST TO BE INCLUDED IN THE PRICE BID FOR THE BEARING ITEM.
12. SHOP DRAWINGS SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR APPROVAL AND SHALL INCLUDE ALL WELDING AND BONDING PROCEDURES.
13. THE MINIMUM VERTICAL DESIGN LOAD
13. THE MINIMUM HORIZONTAL DESIGN LOAD
14. THE BEARING PAD SHALL HAVE THE SAME HORIZONTAL DIMENSIONS AS THE MASONRY PLATE AND A THICKNESS OF THE BEARING PAD MATERIAL SHALL CONFORM TO N.Y.S. STANDARD SPEC. 728-01 OR 728-02.

EXPANSION BEARING SETTING TABLE					
TEMP. (F°)	Δ TO MEAN	TEMP. CORR.(IN.)	"A"	ELONG. CORR.(IN.)	"B"
120°	75'				
105°	60'				
90°	45'				
75°	30'				
60°	15'				
MEAN 45°	-	-			
30°	15'				
15°	30'				
0°	45'				
-15°	60'				
-30°	75'				

- "A" = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH BEAM AND DIAPHRAGM LOADS ON BEAM.
- "B" = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH ALL DEAD LOADS AND SUPERIMPOSED DEAD LOADS ON BEAM.
- ELONGATION IS DUE TO DEFLECTION.
- DEFLECTION IS DUE TO DL & SDL EXCLUDING BEAM & DIAPHRAGM LOADS.



SOLE PLATE DETAIL

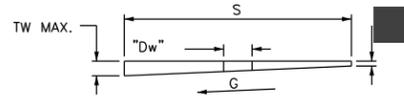
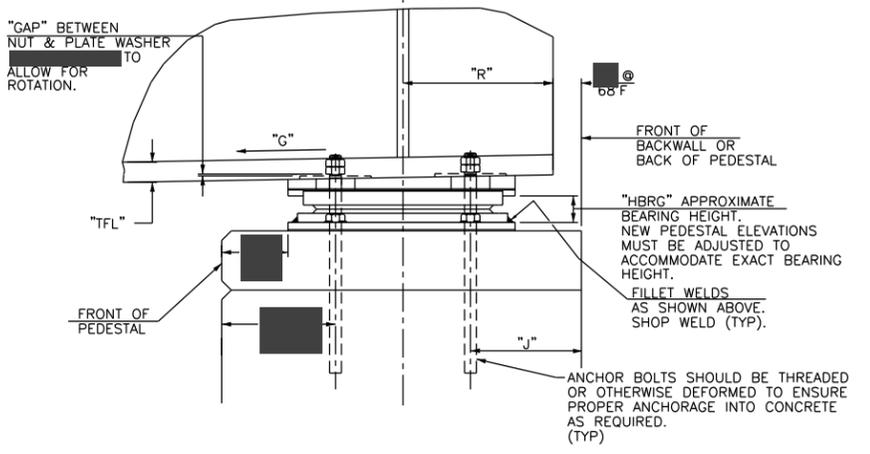


PLATE WASHER DETAIL



SIDE VIEW

**HOLE SIZE IN SOLE PLATE DEPENDENT ON: AMOUNT OF TRANSLATION IN EXPANSION BEARINGS

SOLE PLATE											TOP LOAD PLATE		BOTTOM LOAD PLATE	
SL	A	B	C	V	E	F	G	TSP MIN.	TSP MAX.	Ds x Ls**	LP	TTL	LP	TBL
#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

POLYURETHANE DISC		PIN		MASONRY PLATE							
DD Ø	TD	DP Ø	P	A	B	C	V	E	F	Dm Ø	TMP
#	#	#	#	#	#	#	#	#	#	#	#

ANCHOR BOLTS			ASSUMED BEARING HEIGHT	SKEW ANGLE	PEDESTAL							FLANGE		
IMB	DABø	LAB	HBRG		C	F	H	J	K	N	M	Q	R	TFL
#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

PLATE WASHER				
GAP	S (LENGTH)	T (WIDTH)	TW MAX.	Dwø
#	#	#	#	#

{ NOTE: "{ }" INDICATES NOTES TO DESIGNER. DO NOT INCLUDE IN CONTRACT DRAWINGS. }

PE STAMP & SIGNATURE ARE REQUIRED ON THIS SHEET.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT TITLE OF PROJECT LINE 1 TITLE OF PROJECT LINE 2			
LOCATION OF PROJECT LOCATION OF PROJECT LINE 1 LOCATION OF PROJECT LINE 2			
TITLE OF DRAWING MULTI-ROTATIONAL DISC-TYPE EXPANSION BEARING DETAILS			
CONTRACT NUMBER: TA			
DATE: 6/10			
DRAWING NUMBER: *			

CHECKED BY: IA
 DRAWN BY: IA
 DESIGNED BY: IA
 IN CHARGE OF: IA