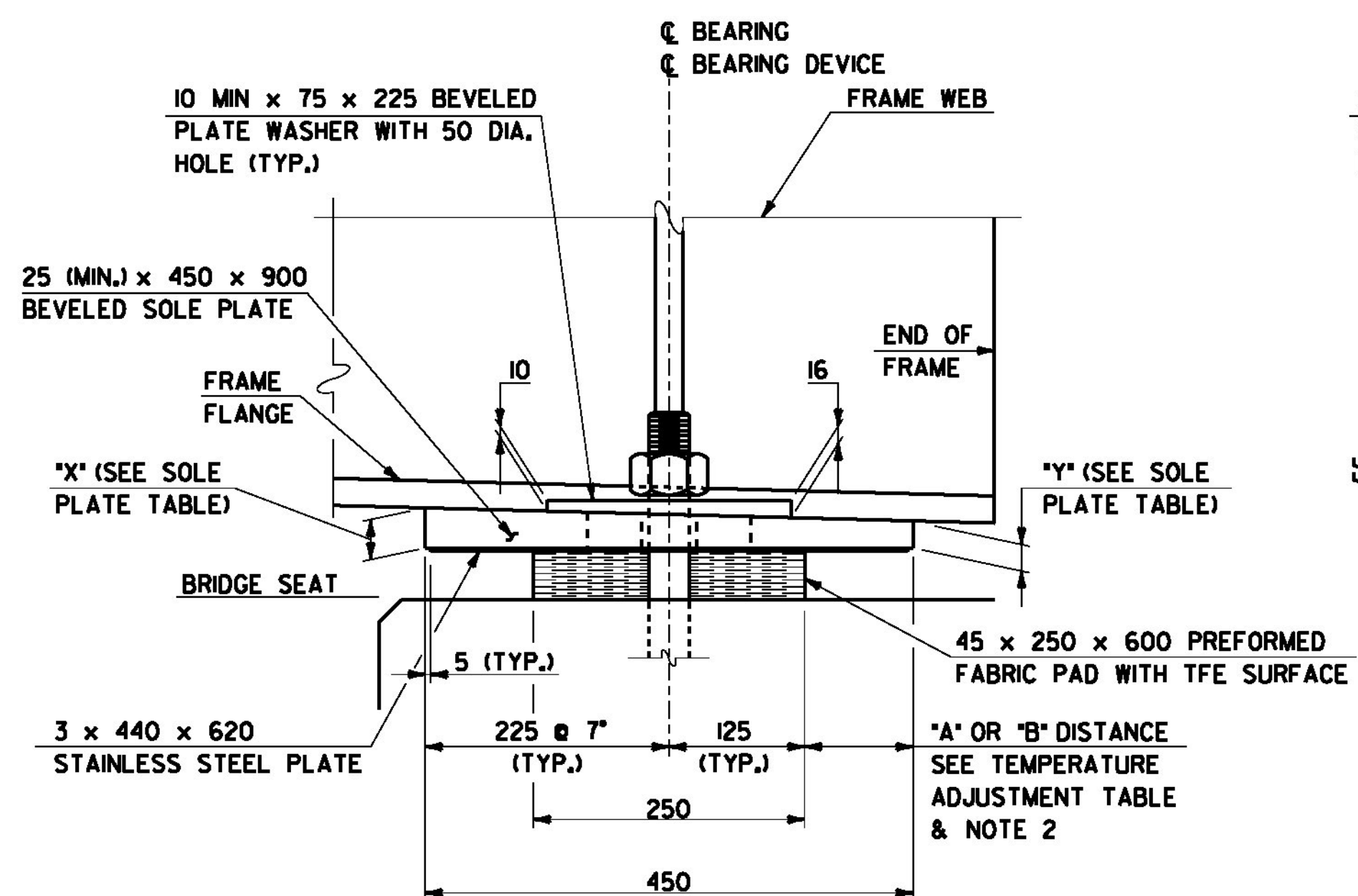
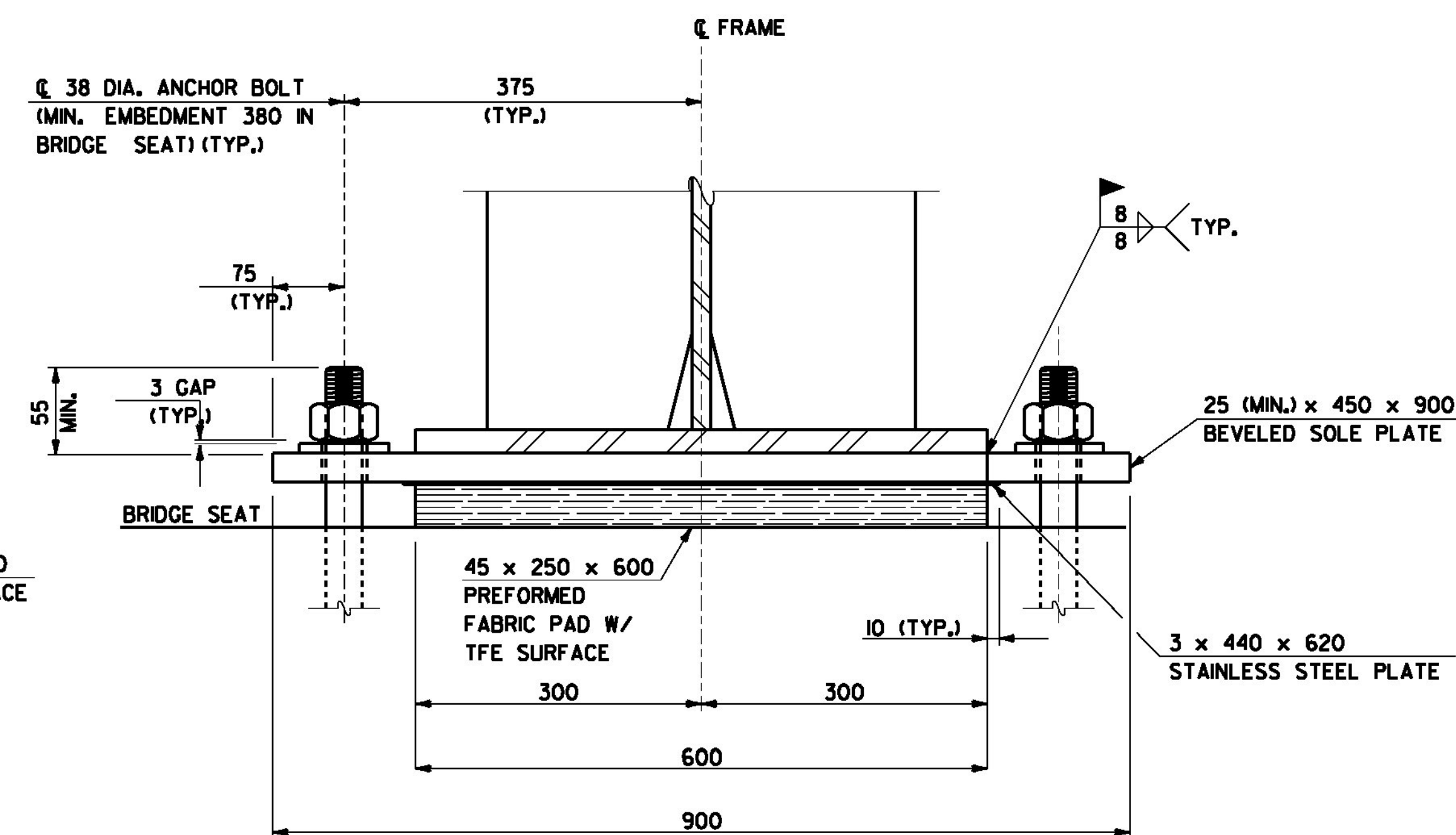


PLAN



ELEVATION



FRONT VIEW

EXPANSION BEARING DETAIL
ITEM 531.10 BEARING DEVICE ASSEMBLY

SCALE: 1:5
(ABUTMENT NO. 2 SHOWN, ABUTMENT NO. 1 SIMILAR)

SOLE PLATE TABLE

	X	*Y*
ABUTMENT NO. 1	25	32
ABUTMENT NO. 2	37	25

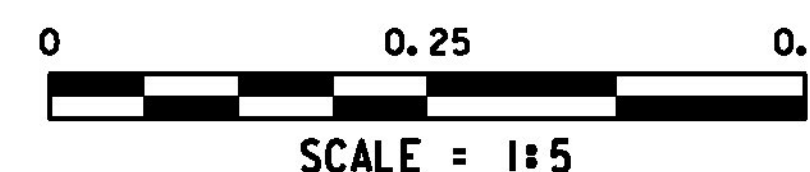
TEMPERATURE ADJUSTMENT TABLE

ABUTMENTS			
TEMP		*A* DIST.	*B* DIST
-18° C	0° F	130	124
-9° C	15° F	121	115
-1° C	30° F	113	108
7° C	45° F	105	97
16° C	60° F	97	91
24° C	75° F	88	82
32° C	90° F	80	74
41° C	105° F	72	66

BEARING NOTES

- FOR ADDITIONAL PREFORMED FABRIC BEARING NOTES, SEE SHEETS 3 AND 4.
- THE *A* DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER ALL DEAD LOAD HAS BEEN APPLIED, THE *B* DISTANCE IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION OF THE CONCRETE SLAB, CURB, PAVEMENT AND BRIDGE RAIL. THE FINAL *A* DISTANCE AS SHOWN IN THE TABLE, MUST BE ATTAINED WITHIN 3 MILLIMETERS.
- DESIGN CRITERIA:
 - BASE PLATE TO CONCRETE DESIGN PRESSURE = 7.0 MPa MAXIMUM.
 - MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIAN.
 - HORIZONTAL CAPACITY SHALL BE A MINIMUM 10% OF VERTICAL LOAD.
 - DESIGN LOAD PER BEARING = 776 kN.

NOTE: ALL DIMENSIONS IN MILLIMETERS (mm) EXCEPT WHERE NOTED.



PROJECT NAME:	MORRISTOWN	PLOT DATE:	29-MAR-2012
PROJECT NUMBER:	STP F 029-1(2)C/1	DRAWN BY:	S. Merkwon
FILE NAME:	z10b194abl.dgn	CHECKED BY:	R. Joy
PROJECT LEADER:	DMB	ABUTMENT BEARING DETAILS	SHEET 81 OF 123
DESIGNED BY:	S. Della / D. Kull		