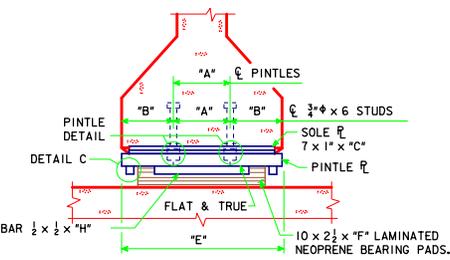
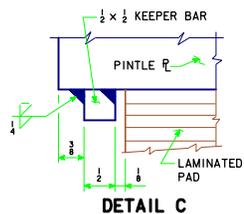


PART ELEVATION

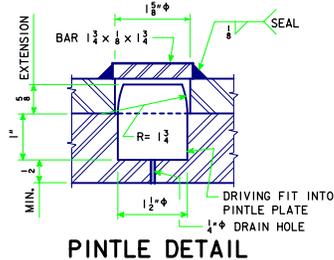
Ø NOTCH BEAM END TO SOLE PLATE THICKNESS MAXIMUM 1"



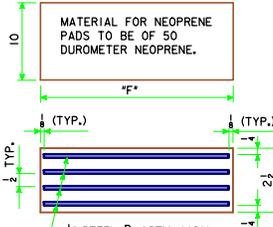
SECTION B-B FOR A & B BEAMS
(DIAPHRAGM CONCRETE NOT SHOWN)



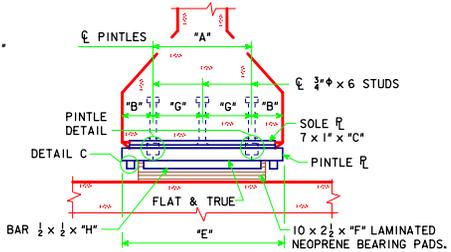
DETAIL C



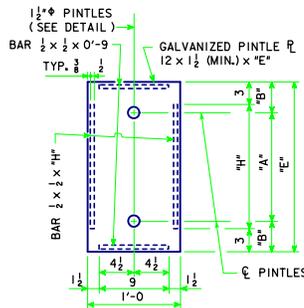
PINTLE DETAIL



LAMINATED NEOPRENE PADS



SECTION B-B FOR C BEAMS
(DIAPHRAGM CONCRETE NOT SHOWN)



PLAN OF PINTLE PLATE

STRUCTURAL STEEL			
DATA FOR ONE BEARING			
BEAM SIZE	A	B	C
WEIGHT (LBS.)	89	89	106

DOES NOT INCLUDE CURVED SOLE PLATE

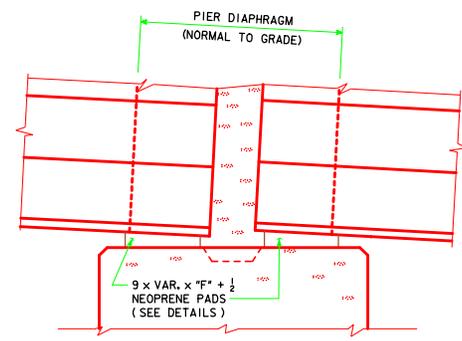
NOTE: STRUCTURAL STEEL WEIGHT IS INCLUDED ON THE SUMMARY QUANTITIES SHEET.

EXPANSION PIER BEARING NOTES:

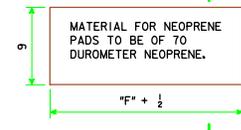
SURFACES MARKED "M" SHALL BE FINISHED ANSI 250.
 PINTLE PLATES ARE A PART OF THE SUPERSTRUCTURE "STRUCTURAL STEEL QUANTITY". COSTS OF ANCHORED CURVED SOLE PLATES AND NEOPRENE PADS ARE TO BE INCLUDED IN THE PRICE BID FOR "PRETENSIONED PRESTRESSED CONCRETE BEAMS".
 THE SOLE PLATES AND PINTLE PLATES SHALL BE GALVANIZED. ALL WELDING SHALL BE COMPLETED PRIOR TO GALVANIZING. THE SURFACE OF THE PINTLE PLATE IN CONTACT WITH THE LAMINATED NEOPRENE PADS SHALL BE FREE OF PROJECTIONS DUE TO THE GALVANIZING.
 SOLE PLATES ARE TO BE SET IN FORMS WHEN BEAMS ARE CAST AND THE BOTTOM OF BEAMS FORMED OUT AS SHOWN TO EXCLUDE CONCRETE.
 SOLE PLATES SHALL COMPLY WITH ONE OF THE FOLLOWING:
 ASTM A 514 GRADE B
 ASTM A 709 GRADE HPS 70W

EXPANSION PIER

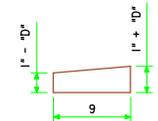
LAMINATED NEOPRENE PAD / CURVED SOLE PLATE ASSEMBLY



PART ELEVATION



PLAN OF NEOPRENE PAD



SECTION A-A

SLOPE	"D"
SLOPE ≤ 1.4%	0"
1.4% < SLOPE ≤ 4.2%	1/4"
4.2% < SLOPE ≤ 5.0%	1/2"

SLOPE CALCULATION FORMULA

$$\text{SLOPE}_{\text{SPAN 1}} = 100\% \frac{\text{P/G ELEV. @ NEAR ABUT.} - \text{P/G ELEV. @ PIER 1}}{\text{SPAN 1 LENGTH}}$$

$$\text{SLOPE}_{\text{SPAN 2}} = 100\% \frac{\text{P/G ELEV. @ PIER 1} - \text{P/G ELEV. @ PIER 2}}{\text{SPAN 2 LENGTH}}$$

$$\text{SLOPE}_{\text{SPAN 3}} = 100\% \frac{\text{P/G ELEV. @ PIER 2} - \text{P/G ELEV. @ FAR ABUT.}}{\text{SPAN 3 LENGTH}}$$

SLOPE CALCULATION FORMULA

FIXED PIER

FIXED PIER BEARING NOTES:

IF CALCULATED SLOPE FOR A GIVEN SPAN EXCEEDS 1.4%, THE NEOPRENE BEARING PADS AT THE FIXED PIER FOR THAT SPAN SHALL BE TAPERED. REFER TO TABLE FOR DIMENSIONS OF TAPERED PADS.
 COST OF NEOPRENE PADS SHALL BE INCLUDED IN THE PRICE BID FOR "PRETENSIONED PRESTRESSED CONCRETE BEAMS".

VARIABLE DIMENSIONS

	BEAM BOTTOM FLANGE WIDTH	
	A & B BEAMS 1'-5"	C BEAMS 1'-8"
"A"	0'-6"	1'-0"
"B"	0'-5 1/2"	0'-4"
"C"	1'-3 1/2"	1'-6 1/2"
"E"	1'-5"	1'-8"
"F"	1'-3"	1'-6"
"G"		0'-6"
"H"	0'-11"	1'-2"

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER



STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
 SEPTEMBER, 2014

PIER BEARING DETAILS

H44-37-14