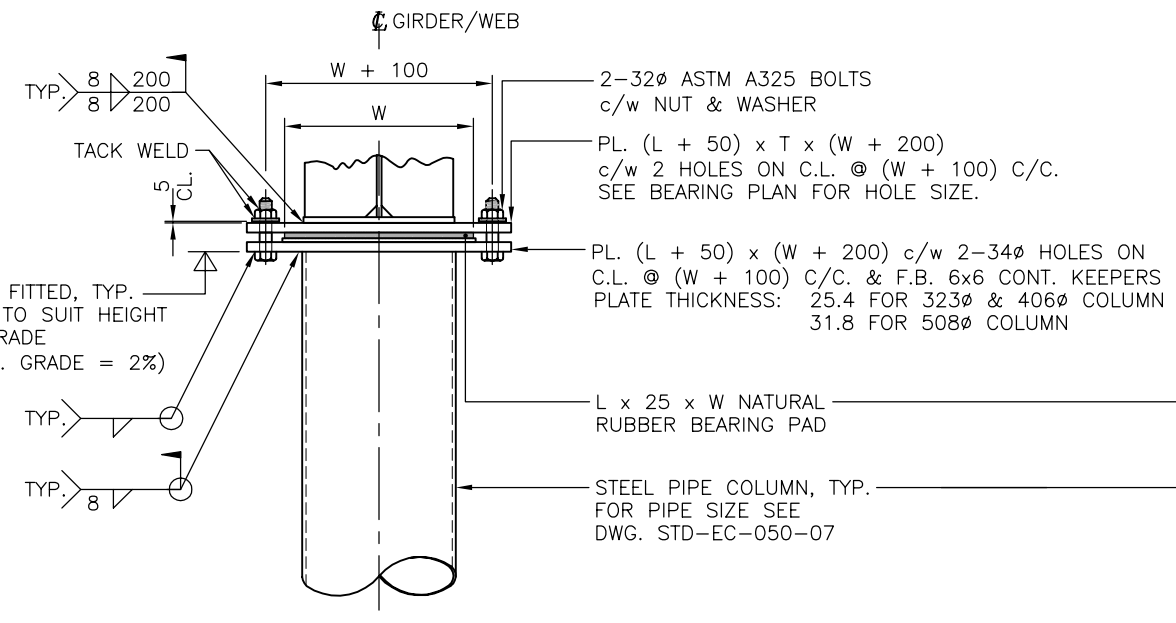
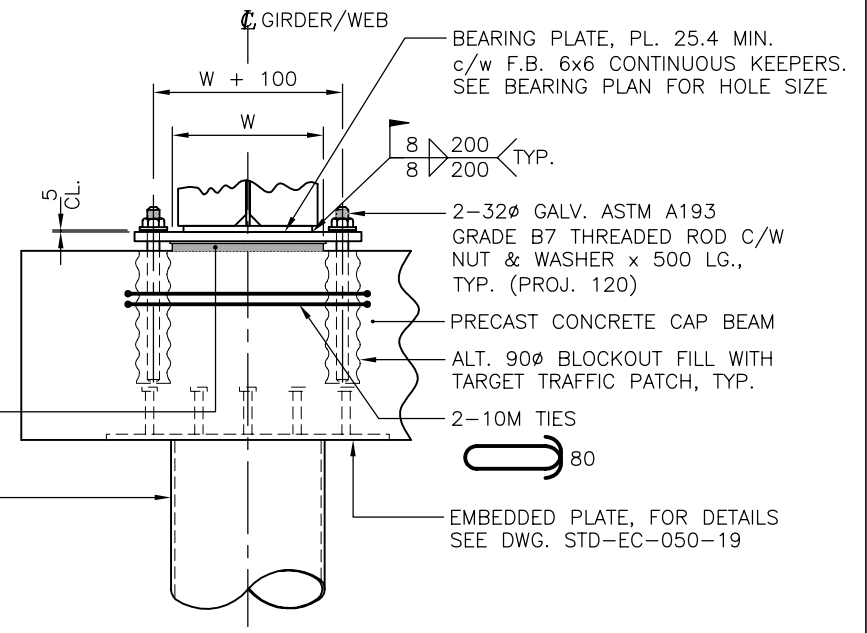


1/2 ABUTMENT ELEVATION DETAIL
1:50

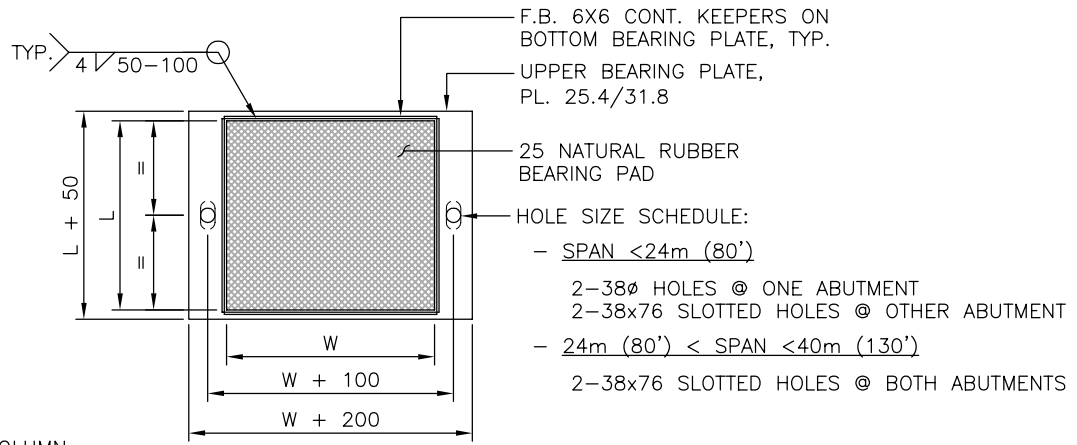


BEARING DETAIL
1:20



ALT. BEARING ON CONCRETE CAP DETAIL
1:20

NOTE:
OMIT BRACING IF COLUMN HEIGHT IS LESS THAN 1000mm.
INSTALL SECOND BAY OF BRACING IF COLUMN HEIGHT EXCEEDS 3500mm

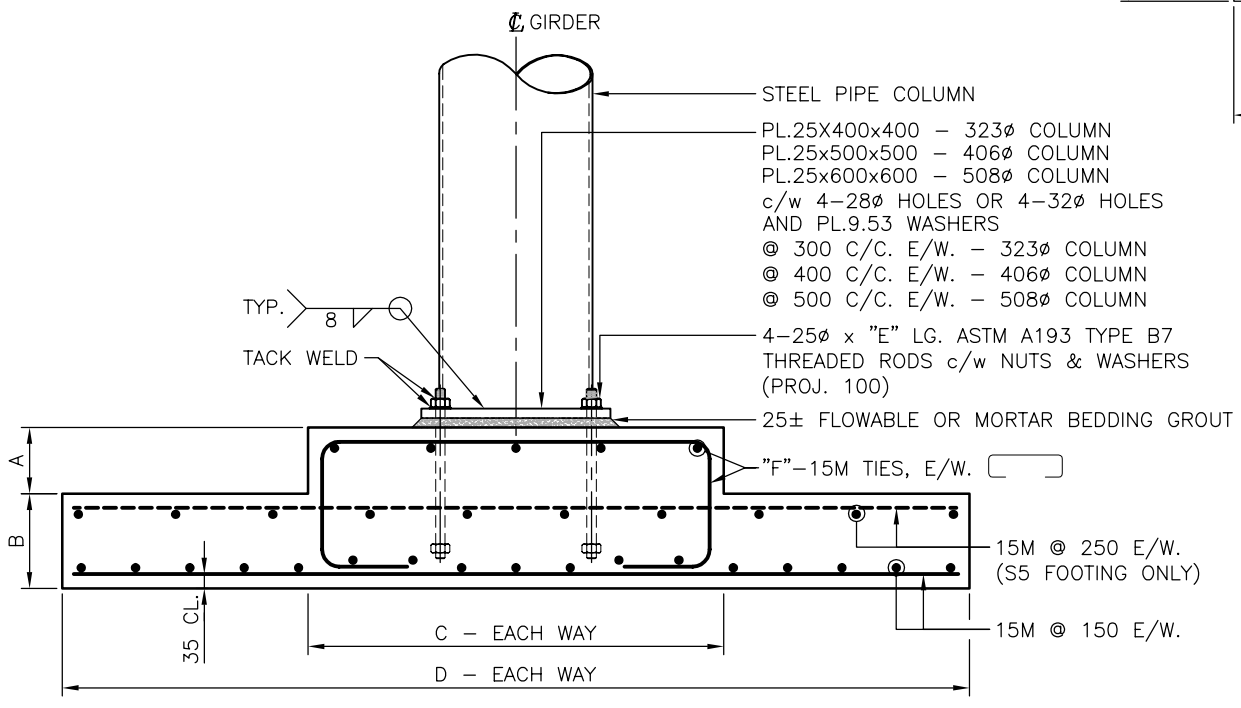


BEARING PLAN
1:20

ASSUME NOT TO SCALE
ORIGINAL SIGNED AND SEALED

NOTES:

1. FOOTINGS HAVE BEEN SIZED BASED ON THE ASSUMPTION THAT THE UNDERLYING FOUNDATION MATERIAL HAS THE ABILITY TO SUPPORT A MINIMUM 200 KPa SERVICEABILITY LIMIT STATES COMBINATION 1 STRESS IN ACCORDANCE WITH SECTION 3 AND 6 OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6). WHERE THE UNDERLYING MATERIAL IS UNABLE TO SUPPORT THIS APPLIED STRESS, THE ENGINEER SHALL DESIGN THE SUBSTRUCTURE COMPONENTS BASED ON THE ASSESSED STRENGTH OF THE FOUNDATION MATERIALS OR DESIGN FOR AN ALTERNATIVE FOUNDATION SYSTEM SUCH AS DRIVEN PILES.
2. THE DESIGN DRAWINGS SHOULD INCLUDE THE DESIGN MAXIMUM APPLIED SERVICEABILITY LIMIT STATES COMBINATION 1 AND ULTIMATE LIMIT STATE STRESSES FOR PRECAST CONCRETE FOOTINGS AND SERVICEABILITY LIMIT STATES COMBINATION 1 AND ULTIMATE LIMIT STATE LOADS FOR DRIVEN PILES.
3. DESIGN APPLICABLE TO FLEXIBLE FOUNDATION SYSTEM ONLY (STANDARD PRECAST CONCRETE FOOTINGS WITH COLUMNS OR STEEL PIPE PILES). FOR RIGID FOUNDATION, OR WHERE DESIGN NEEDS TO ACCOMMODATE THERMAL MOVEMENT, DESIGN TO BE COMPLETED BY AN ENGINEER.
4. ACCOMMODATE GRADES IN EXCESS OF 2% WITH A BEVEL PLATE OR SLOPED CAP BEAM.



PRECAST CONCRETE FOOTING DETAIL
1:20

DESIGN ENGINEER	0 2 4 6 8 10 meters			Ministry of Forests, Lands and Natural Resource Operations	ENGINEERING BRANCH							
	Checked JULIEN HENLEY Date 14/04/01 Drawn ERFUN FARJOO Date 14/04/01											
BAR LENGTH IS 40mm ON ORIGINAL.			STANDARD BRIDGE DRAWING									
Drawing Title: SUBSTRUCTURE DETAILS FOR STEEL BRIDGES - SHEET 1												
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>DESCRIPTION</th> <th>Init</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>15/03/31</td> <td>REVISED NOTES & ADDED SLOTTED HOLES</td> <td></td> </tr> </tbody> </table>			Rev	Date	DESCRIPTION	Init	1	15/03/31	REVISED NOTES & ADDED SLOTTED HOLES		DESIGNED BY: HELEN DU, P.ENG.	APPROVED BY:
Rev	Date	DESCRIPTION	Init									
1	15/03/31	REVISED NOTES & ADDED SLOTTED HOLES										
COORDINATING REGISTERED PROFESSIONAL:			FLNR ENGINEER:									
FILE No.			DRAWING No. STD-EC-050-06									
REVISIONS			1									