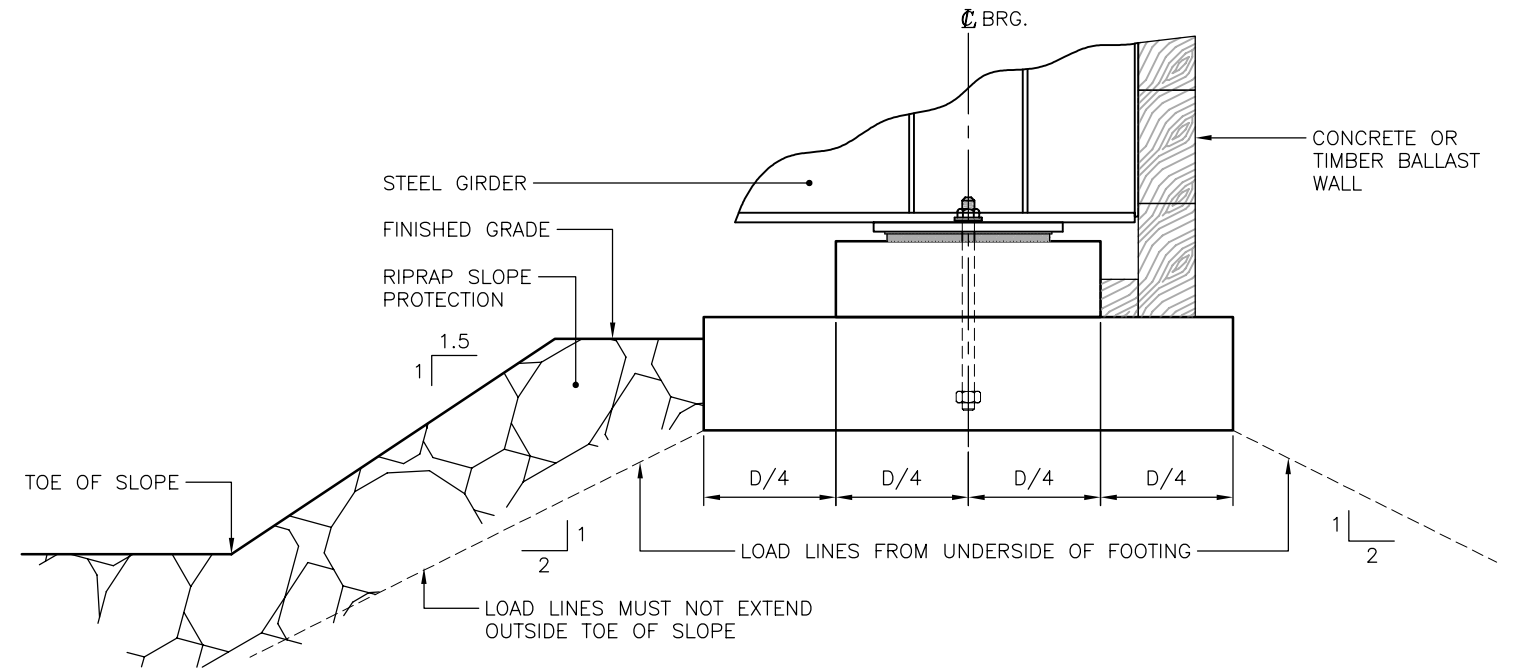
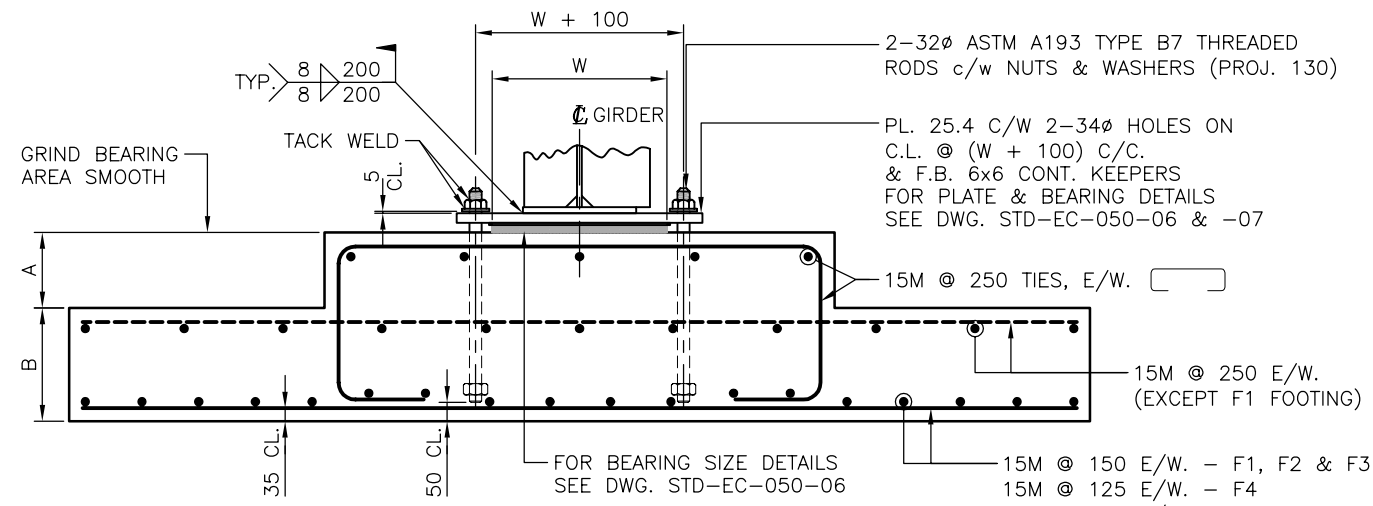


**PRECAST CONCRETE FOOTING PLAN**  
1:20



**ABUTMENT ELEVATION**  
1:20



**PRECAST CONCRETE FOOTING DETAIL**  
1:20

FOOTING TYPE	MAXIMUM SPAN			
	BCL-625	L100	L150	L165
F1	20 000	12 000		
F2	28 000	20 000	12 000	10 000
F3	30 000	24 000	16 000	14 000
F4*		28 000	22 000	18 000
F5*		30 000	30 000	26 000

\*USE FOR 3600 GIRDERS CENTERS ONLY

**NOTES:**

- 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.
- 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.
- ACCOMMODATE GRADES IN EXCESS OF 2% WITH A BEVEL PLATE OR SLOPED CAP BEAM.

FOOTING TYPE	FOOTING SIZE				WEIGHT kg
	A	B	C	D	
	F1	175	250	2400	
F2	200	300	2700	1400	3180
F3	225	350	2900	1500	4250
F4	225	350	3200	1600	5000
F5	225	350	3500	1800	6150

ASSUME NOT TO SCALE  
ORIGINAL SIGNED AND SEALED

DESIGN ENGINEER	0 2 4 6 8 10 meters 0 20 40 mm SCALE AS SHOWN	Ministry of Forests, Lands and Natural Resource Operations ENGINEERING BRANCH																								
PROFESSIONAL SEAL	Checked JULIEN HENLEY Date 14/04/01 Drawn ERFUN FARJOO Date 14/04/01 BAR LENGTH IS 40mm ON ORIGINAL.																									
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>DESCRIPTION</th> <th>Init</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Rev	Date	DESCRIPTION	Init																					STANDARD BRIDGE DRAWING DRAWING TITLE: SUBSTRUCTURE DETAILS FOR STEEL BRIDGES - SHEET 3
Rev	Date	DESCRIPTION	Init																							
DESIGNED BY: HELEN DU, P.ENG.		APPROVED BY:																								
COORDINATING REGISTERED PROFESSIONAL:		FLNR ENGINEER:																								
FILE No.		DRAWING No. STD-EC-050-08																								