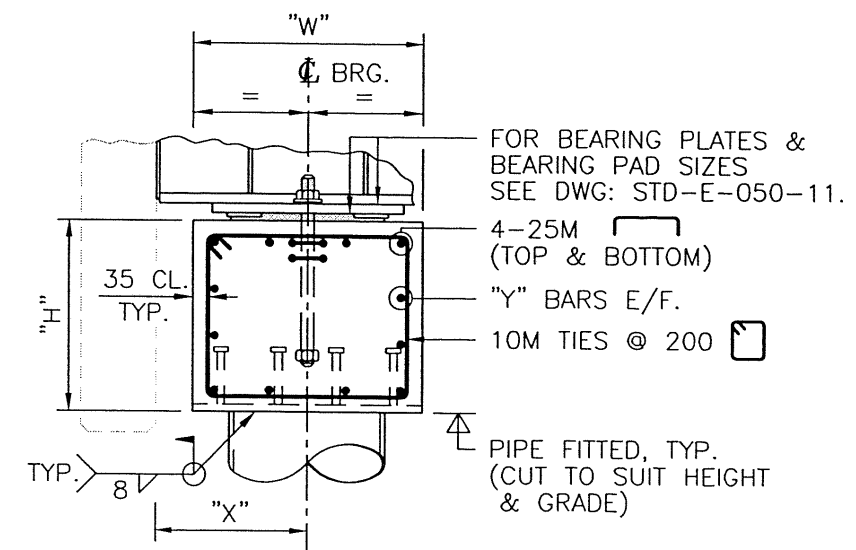


**1/2 PRECAST CONCRETE CAP BEAM ELEVATION**  
1:20



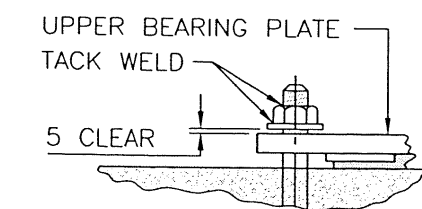
**PRECAST CONCRETE CAP BEAM SECTION**  
1:20

CAP DESIGN SCHEDULE				
"W"	"H"	"X"	"Y"	PIPE Ø
400	400	300	1-15M	323
500	500	350	2-15M	406
600	600	400	3-15M	508
700	700	450	4-15M	610

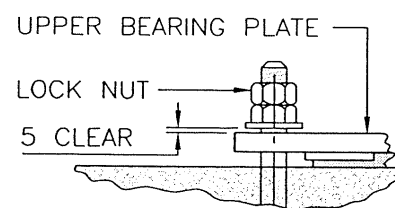
**NOTE:** TYPICALLY CAP WIDTH IS DEPENDENT ON PIPE DIAMETER ONLY. ON LONGER SPANS THOUGH BEARING PAD DIMENSIONS MAY GOVERN. CHECK MIN. BEARING PAD DIMENSIONS BEFORE FINALIZING CAP WIDTH.

**NOTES**

- FOR DEFINITION OF LOADS REFER TO FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL.
- DESIGN: CAN/CSA-S6-88 (MODIFIED). FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL, JULY 1999.
- STEEL: CSA G40.21M GRADE 350AT CAT. 3 (PLATE)
- WELDING: CSA W59 6 F.W. U/N. FIELD WELDERS CERTIFIED TO CSA W47.
- STUDS: ASTM A108 GRADE 1020.
- CONCRETE: CAN3 A23.1 EXPOSURE CLASS C1, f'c = 35MPa @ 28 DAYS.
- PRECAST CONCRETE: CSA A23.4-94 BY CSA CERTIFIED PLANT.
- REINFORCING: CSA G30.18M GRADE 400.
- GROUT: INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- FOR PIPE DIAMETER OTHER THAN SHOWN, INCREASE CAP WIDTH "W" ACCORDINGLY. (SEE TABLE ON DWG. STD-E-050-63)



**TYPICAL BEARING CONNECTION BOLT DETAIL**  
1:10



**ALTERNATE BEARING CONNECTION BOLT DETAIL**  
1:10

**ASSUME NOT TO SCALE**

SCALE AS SHOWN		Designed: J.H. Date: MAR. 2000	Date: MAR. 2000
		Checked: D.J.H. Date: MAR. 2000	Date: MAR. 2000
		Drawn: J.E.N. Date: MAR. 2000	Date: MAR. 2000
Rev	Date	DESCRIPTION	Init

**Province of British Columbia**  
MINISTRY OF FORESTS  
RESOURCE TENURES and ENGINEERING BRANCH

**STANDARD BRIDGE DRAWING**

**CONCRETE ABUTMENT CAP BEAMS FOR STEEL BRIDGES**  
**CONCRETE CAP BEAM - 2 PILE/COLUMN SYSTEM**

ORIGINAL SIGNED and SEALED BY: DAVID I. HARVEY, P.ENG. APPROVED BY:

DESIGN ENGINEER: JULIEN HENLEY, P.ENG. MOF ENGINEER:

DATE: DATE DATE

FILE No. DRAWING No. **STD-E-050-63**