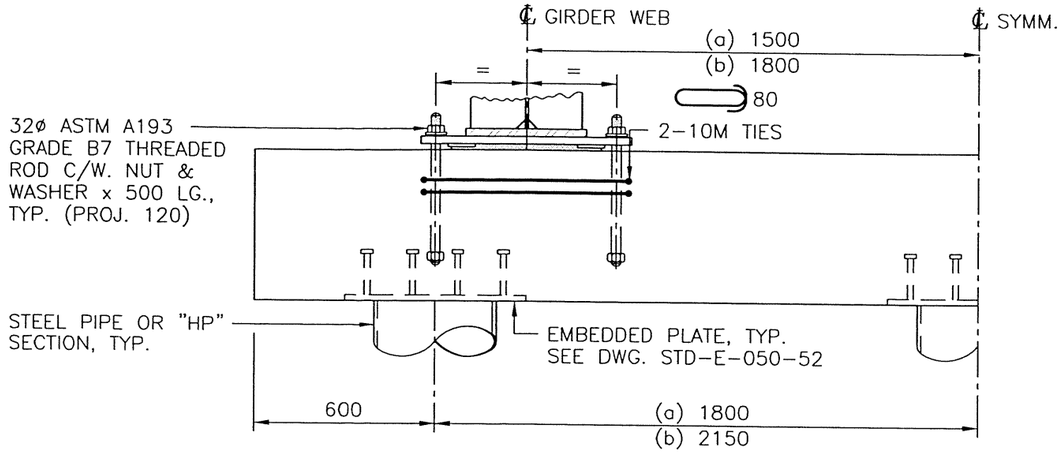
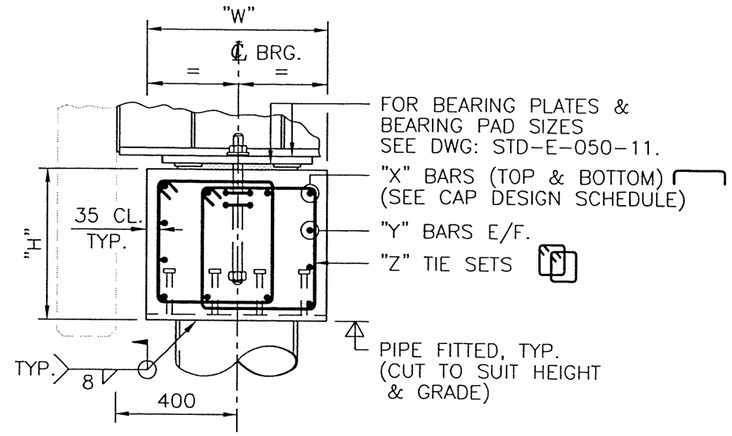


1/2 PRECAST CONCRETE CAP BEAM ELEVATION

1:20



PRECAST CONCRETE CAP BEAM SECTION

1:20

LOADING/SPAN CAP DESIGN SCHEDULE
(GIRDERS @ 3000 C/C.)

SPAN	L75	L100	L150	L165
12000	A	A	N/A.	N/A.
18000	A	A	N/A.	N/A.
24000	A	B	N/A.	N/A.
30000	A	B	N/A.	N/A.
36000	B	C	N/A.	N/A.
39000	B	C	N/A.	N/A.

LOADING/SPAN CAP DESIGN SCHEDULE
(GIRDERS @ 3600 C/C.)

SPAN	L75	L100	L150	L165
12000	A	A	B	B
18000	A	B	C	C
24000	B	B	D	D
30000	B	C	D	D
36000	B	C	D	D
39000	C	C	D	D

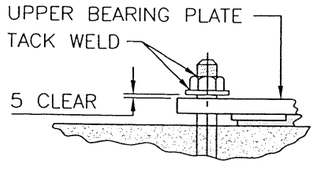
CAP DESIGN SCHEDULE

CAP	"W"	"H"	"X"	"Y"	"Z" TIE SETS	MAX PIPE ø
A	400	500	4–30M	1–15M	2–10M @ 200	323
B	400	600	4–30M	2–15M	2–10M @ 200	323
C	400	700	4–30M	3–15M	2–10M @ 200	323
D	500	800	6–30M	4–15M	2–10M @ 125	406

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.

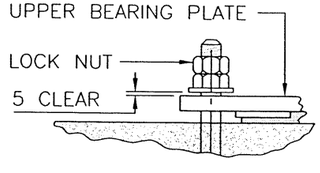
NOTES

1. FOR DEFINITION OF LOADS REFER TO FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL.
2. DESIGN: CAN/CSA–S6–88 (MODIFIED). FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL, JULY 1999.
3. STEEL: CSA G40.21M GRADE 350AT CAT. 3 (PLATE)
4. WELDING: CSA W59 6 F.W. U/N. FIELD WELDERS CERTIFIED TO CSA W47.
5. STUDS: ASTM A108 GRADE 1020.
6. CONCRETE: CAN3 A23.1 EXPOSURE CLASS C1, f'c = 35MPa @ 28 DAYS.
7. PRECAST CONCRETE: CSA A23.4–94 BY CSA CERTIFIED PLANT.
8. REINFORCING: CSA G30.18M GRADE 400.
9. GROUT: INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
10. WHERE LARGER DIAMETER PIPES ARE USED INCREASE CAP WIDTH "W" AND EMBEDDED PLATE DIMENSIONS 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

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

SCALE AS SHOWN

Designed J.H. Date MAR. 2000
Checked D.J.H. Date MAR. 2000
Drawn J.E.N. Date MAR. 2000

Rev	Date	DESCRIPTION	Init

REVISIONS

STANDARD BRIDGE DRAWING

CONCRETE ABUTMENT CAP BEAMS FOR STEEL BRIDGES
CONCRETE CAP BEAM – 3 PILE/COLUMN SYSTEM

ORIGINAL SIGNED and SEALED BY: DAVID I. HARVEY, P.ENG.
APPROVED BY:
DESIGN ENGINEER
DATE JULIEN HENLEY, P.ENG
MOF ENGINEER
DATE
FILE No.
DRAWING No. STD–E–050–64

CANCEL PRINTS BEARING PREVIOUS LETTER