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PROJECT NAME: TELKWA 62.2

BULKLEY RIVER CROSSING, WIDENING OF 24.0m SPAN, TPG BRIDGE

TASK: (3) LOADS

SUBTASK: (3.4) LOAD COMBINATIONS

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b. *Service Load Design.*

(1) The group loading combinations for SERVICE LOAD DESIGN are as shown in [Table 8-2-2](#).

Table 8-2-2. Group Loading Combinations – Service Load Design

Group	Item	Allowable Percentage of Basic Unit Stress
I	D + L + I + CF + E + B + SF	100
II	D + E + B + SF + W	125
III	Group I + 0.5W + WL + LF + F	125
IV	Group I + OF	125
V	Group II + OF	140
VI	Group III + OF	140
VII	D + E + B + SF + EQ	133
VII	Group I + ICE	140
IX	Group II + ICE	150

c. *Load Factor Design.*

(1) The group loading combinations for LOAD FACTOR DESIGN are as shown in [Table 8-2-3](#).

Table 8-2-3. Group Loading Combinations – Load Factor Design

Group	Item
I	1.4 (D + 5/3 (L + I) + CF + E + B + SF)
IA	1.8 (D + L + I + CF + E + B + SF)
II	1.4 (D + E + B + SF + W)
III	1.4 (D + L + I + CF + E + B + SF + 0.5W + WL + LF + F)
IV	1.4 (D + L + I + CF + E + B + SF + OF)
V	Group II + 1.4 (OF)
VI	Group III + 1.4 (OF)
VII	1.4 (D + E + B + SF + EQ)
VIII	1.4 (D + L + I + E + B + SF + ICE)
IX:	1.2 (D + E + B + SF + W + ICE)

AREMA
§ 2.2.4. Load Combinations

b)

c)