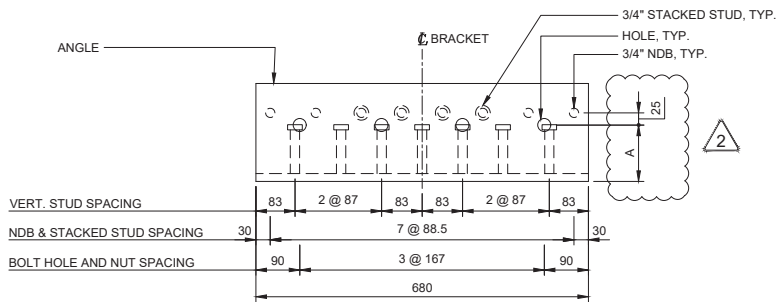


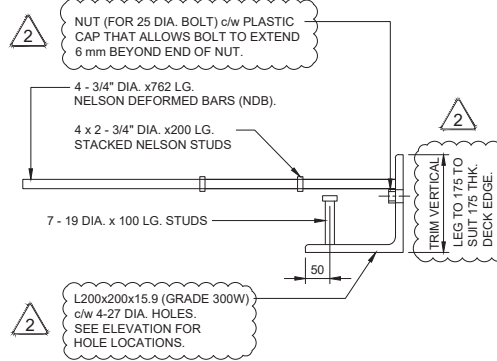
**INSERT PLAN**  
1:10



**INSERT ELEVATION**  
1:10

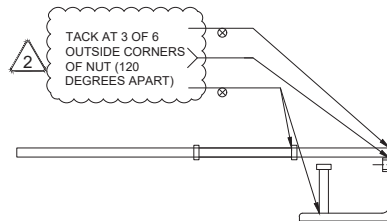
(INSERT FOR 200mm THICK DECK EDGE SHOWN)

DECK EDGE THICKNESS	A (DISTANCE BASE OF ANGLE TO CENTER OF HOLE/NUT)
175	90
200	115
225	140



**DETAIL 1**  
1:10

2 (INSERT FOR 200mm THICK DECK EDGE SHOWN)



**DETAIL 1**  
1:10

(WELDING ONLY)

2 (INSERT FOR 200mm THICK DECK EDGE SHOWN)

**NOTES:**

**GENERAL**

- INSERTS HAVE BEEN DESIGNED TO MEET THE CRITERIA FOR CONTAINMENT LEVEL CL-3 AS DEFINED BY THE MINISTRY.

- CL-3 INSERTS AND OTHER CL-3 GUARDRAIL DETAILS ARE FOR NON-SKEWED AND NON-FLARED DECK PANELS. MODIFICATIONS MAY BE REQUIRED FOR SKEWED OR FLARED DECK PANELS.

**MATERIALS**

- STEEL:
  - STUDS TO ASTM A108
  - GRADE 1015, 1018 OR 1020.
  - NELSON DEFORMED BARS (NDB) TO ASTM A108
  - GRADE 1010 - 1020.
  - MIN. Fy = 485 MPa.
  - ANGLE TO CSA G40.21M
  - GRADE 300W

NUTS TO ASTM A563 DH (GALV.) OR ASTM A194 2H (GALV.) - GRIND OFF GALV. FOR TACK WELDING. CLEAN THREADS TO FIT A325 GALV. BOLT AFTER FULL INSERT ASSEMBLY IS GALVANIZED.

**- STEEL FABRICATION:**

- WELDING:
  - SHOP WELDING IN ACCORDANCE WITH CSA W59 FABRICATOR TO BE CERTIFIED FOR DIVISION 1, 2 OR 3 IN ACCORDANCE WITH CSA W47-1.

GALVANIZING:
 

- INSERTS TO BE GALVANIZED TO ASTM A123. MINIMUM 610 g/m<sup>2</sup>. AFTER FABRICATION.

REV #	DATE	REVISION DESCRIPTION	DRAFTING	DESIGN	DESIGN CHECK / REVIEW	PROF. OF RECORD
1	AUGUST 9, 2013	ORIGINAL DRAWING	W. RILEY (ASSOC. ENG.)	J. DEENIHAN (ASSOC. ENG.)	J. HENLEY (ASSOC. ENG.)	J. HENLEY (ASSOC. ENG.)
2	MAY 28, 2021	MINOR CHANGES AND DRAWING TITLE CHANGE.	W. RILEY (ASSOC. ENG.)	M. PENNER (MINISTRY)	J. HENLEY (ASSOC. ENG.)	J. HENLEY (ASSOC. ENG.)



SEAL - ENGINEER OF RECORD

*J. Henley*

CHIEF ENGINEER (SIGNATURE)



**STANDARD BRIDGE DRAWING**

**CL-3 INSERT DETAILS FOR COMPOSITE DECK PANELS**