

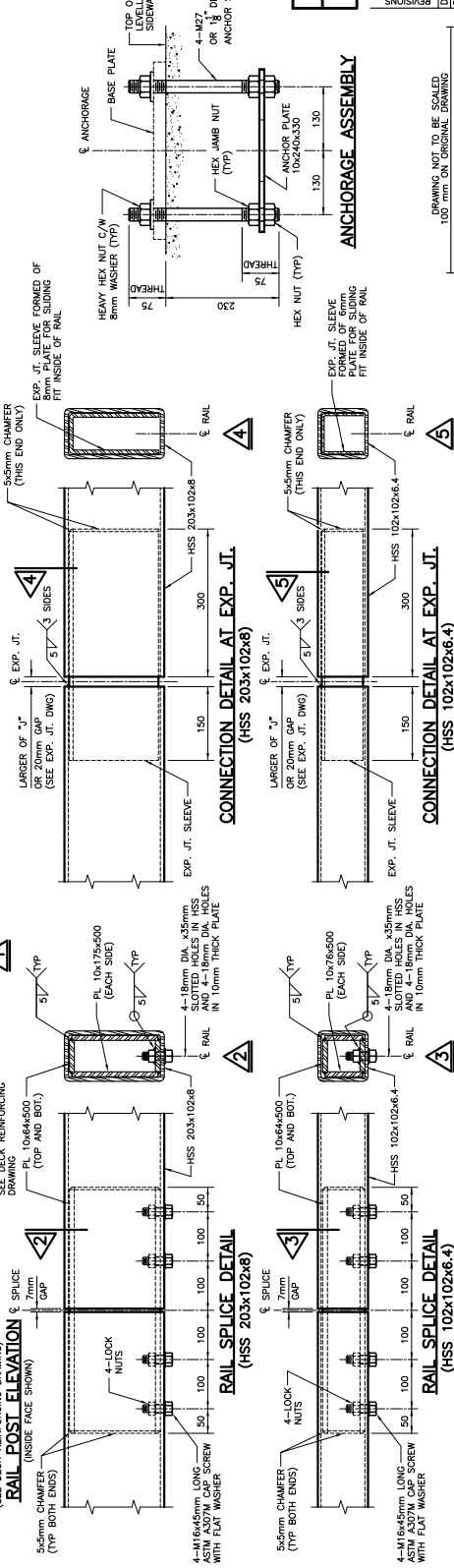
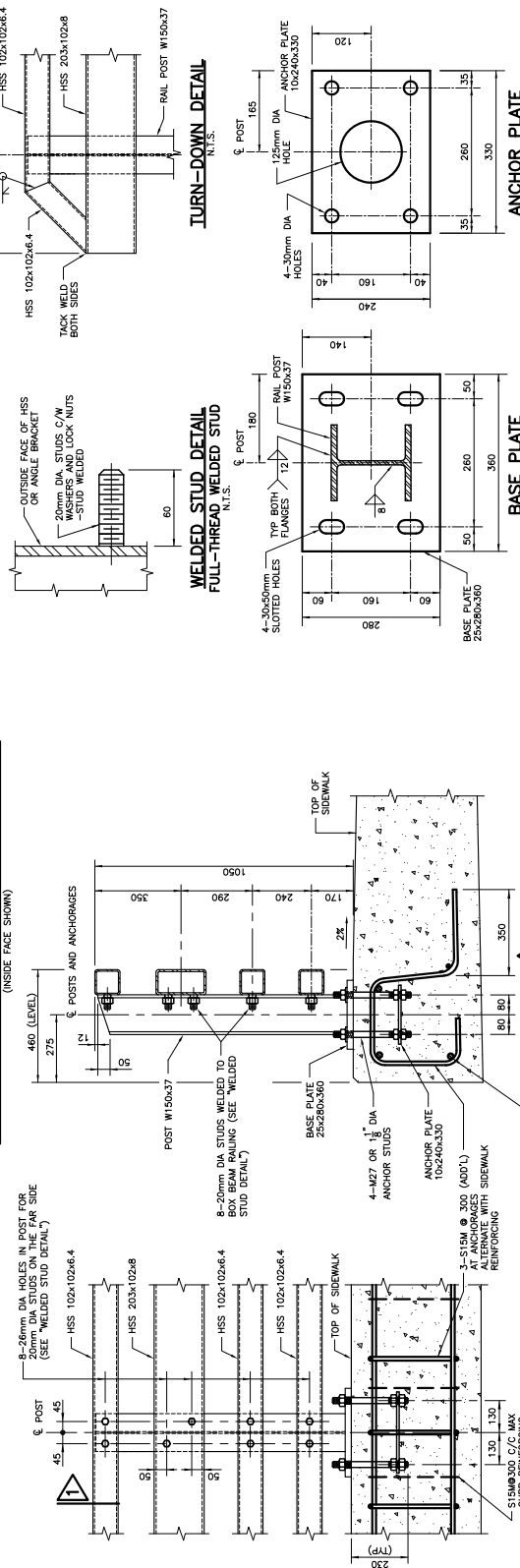
CONT No	WP No	SHEET
		BOX BEAM RAILING ON SIDEWALK - PL2

**METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN**

NOTES TO DESIGNER

1. THE IMPACT TEST TEMPERATURE SHALL BE DETERMINED BY REFERRING TO CAN/CSA-S506, TABLE 10.1.3 BASED ON THE MINIMUM SERVICE TEMPERATURE OF THE STRUCTURE GIVEN IN FIGURE A3.1.2.
2. FOR DECK WITH GRP REINFORCEMENT, THE EXTRA STAINLESS STEEL BARS SHOWN AT RAIL POST LOCATION SHALL BE REPLACED WITH GRP REBARS OF EQUIVALENT STRENGTH.
3. THE NOTES TO DESIGNER SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF CONTRACT.

ELEVATION - BOX BEAM RAILING ON SIDEWALKS (INSIDE FACE SHOWN)



NOTES:

1. RAIL ELEMENTS SHALL BE HOLLOW STRUCTURAL SECTIONS GRADE 350MPa, CLASS C. RAIL ELEMENT SHALL MEET THE REQUIREMENTS OF CAN/CSA-S506, TABLE 10.1.3 BASED ON THE MINIMUM SERVICE TEMPERATURE OF THE STRUCTURE GIVEN IN FIGURE A3.1.2.
2. FOR DECK WITH GRP REINFORCEMENT, THE EXTRA STAINLESS STEEL BARS SHOWN AT RAIL POST LOCATION SHALL BE REPLACED WITH GRP REBARS OF EQUIVALENT STRENGTH.
3. THE NOTES TO DESIGNER SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF CONTRACT.
4. THE NOTCH TOUGHNESS REQUIREMENTS FOR POSTS AND PLATES SHALL BE THE SAME AS THOSE SPECIFIED IN NOTE 1.
5. ANCHOR STUDS, WASHERS, AND NUTS FOR ANCHORING GUIDE RAILS TO POST SHALL CONFORM TO ASTM A108.
6. RAILS SHALL BE SUPPLIED IN LENGTH TO BE ATTACHED TO A MINIMUM OF THREE (3) RAIL POSTS.
7. GALVANIZING ON MATING SURFACES OF RAILS TO HAVE UNIFORM THICKNESS NOT EXCEEDING 0.15mm TO ENSURE SLIDING FIT.
8. RAILS, POSTS, RAIL SPLICES, AND END CAPS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
9. BOLTS, ANCHOR STUDS, PLATES, WASHERS, AND NUTS SHALL BE GALVANIZED AFTER FABRICATION.
10. RAILS SHALL BE SET PERPENDICULAR TO GRADE WHERE RADIUS IS LESS THAN 150 METRES.
11. RAIL POSTS SHALL BE SET PERPENDICULAR TO GRADE.
12. RAILS MAY BE CUT AS REQUIRED IN THE FIELD. CUT TO BE MADE CONTINUOUS AND POST SPACING TO BE DETERMINED WITH REFERENCE TO EXISTING POSTS.
13. WHEN CONNECTING TO EXISTING RAILING, RAILS MUST BE MADE CONTINUOUS AND POST SPACING TO BE DETERMINED WITH REFERENCE TO EXISTING POSTS.
14. END CAPS SHALL BE GALVANIZED AFTER FABRICATION. THIN FILM OF EPOXY GROUT MAY BE USED WHEN REQUIRED FOR FILLING THE Voids UNDER THE BASE PLATE.
15. POST ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT CONDITION AND GIVEN AN ADDITIONAL 1/3 OF A TURN.
16. BOLTS IN RAIL SPLICES SHALL BE TIGHTENED TO A SNUG FIT CONDITION AND GIVEN AN ADDITIONAL 1/3 OF A TURN.
17. CHAINS ARE REQUIRED ON HIGH AND LOW SIDE OF GROSS FALL (OR EQUIVALENT) TO BE SECURED TO THE RAILING WITH DUPLEX Z205 WITH A MINIMUM YIELD STRENGTH OF 500 MPa.

STANDARD DRAWING
JULY 2014

SS110-46

BOX BEAM RAILING ON SIDEWALK - PL2

DESIGN	CHK	CODE	CHB06-06	LOAD	DATE
REVISION	CHK	CODE	CHB06-06	LOAD	DATE
DESIGN	CHK	CODE	CHB06-06	LOAD	DATE
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DRAWING NOT TO BE SCALE
100% FOR ORIGINAL DRAWING