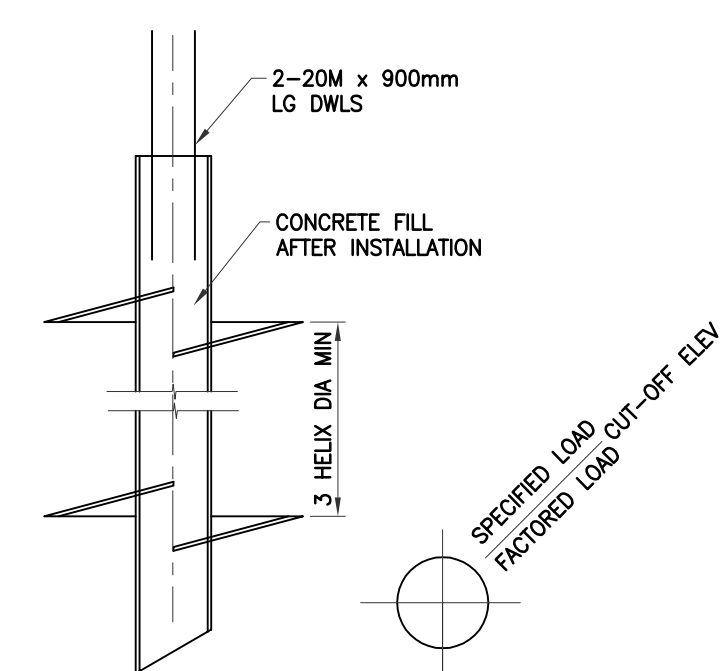
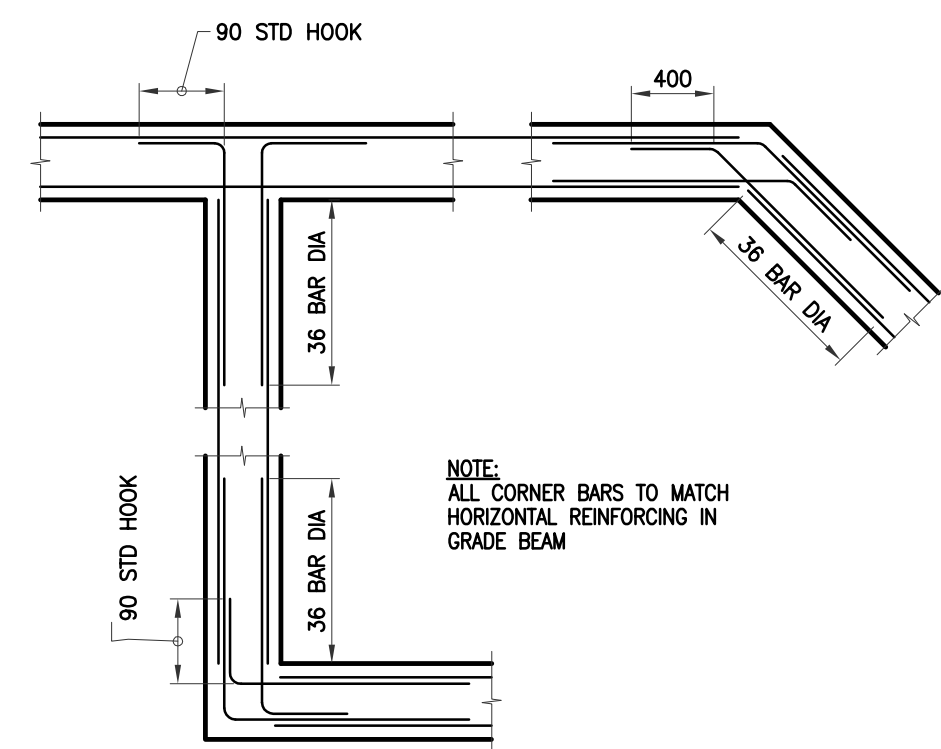


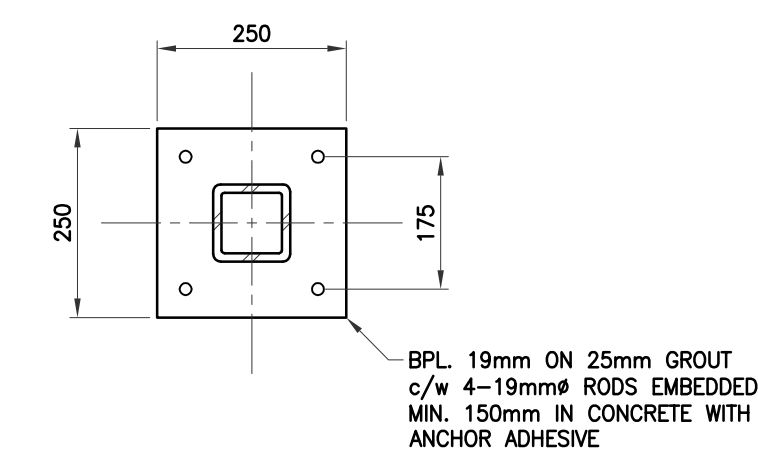
1 PARTIAL MAIN FLOOR & FOUNDATION PLAN
1 : 50



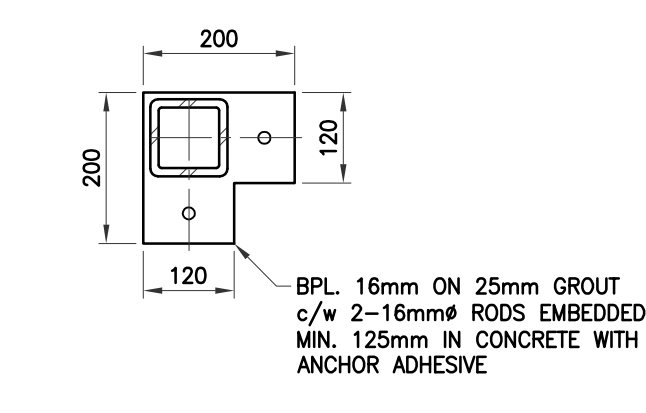
TYP. SCREW PILE



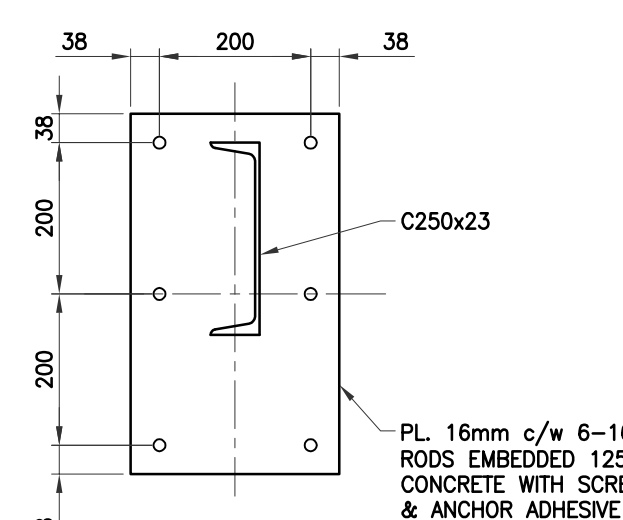
TYPICAL GRADE BEAM INTERSECTION



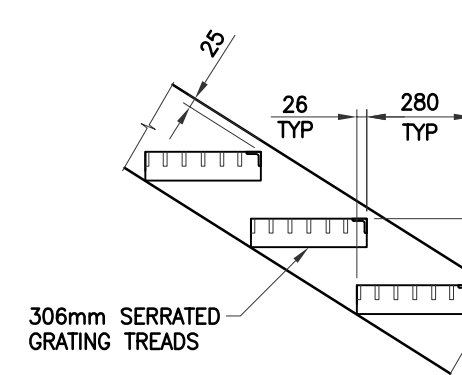
BASE PLATE 'A' DETAIL
1 : 10
NOTE: u/s ELEVATION @ 100.025



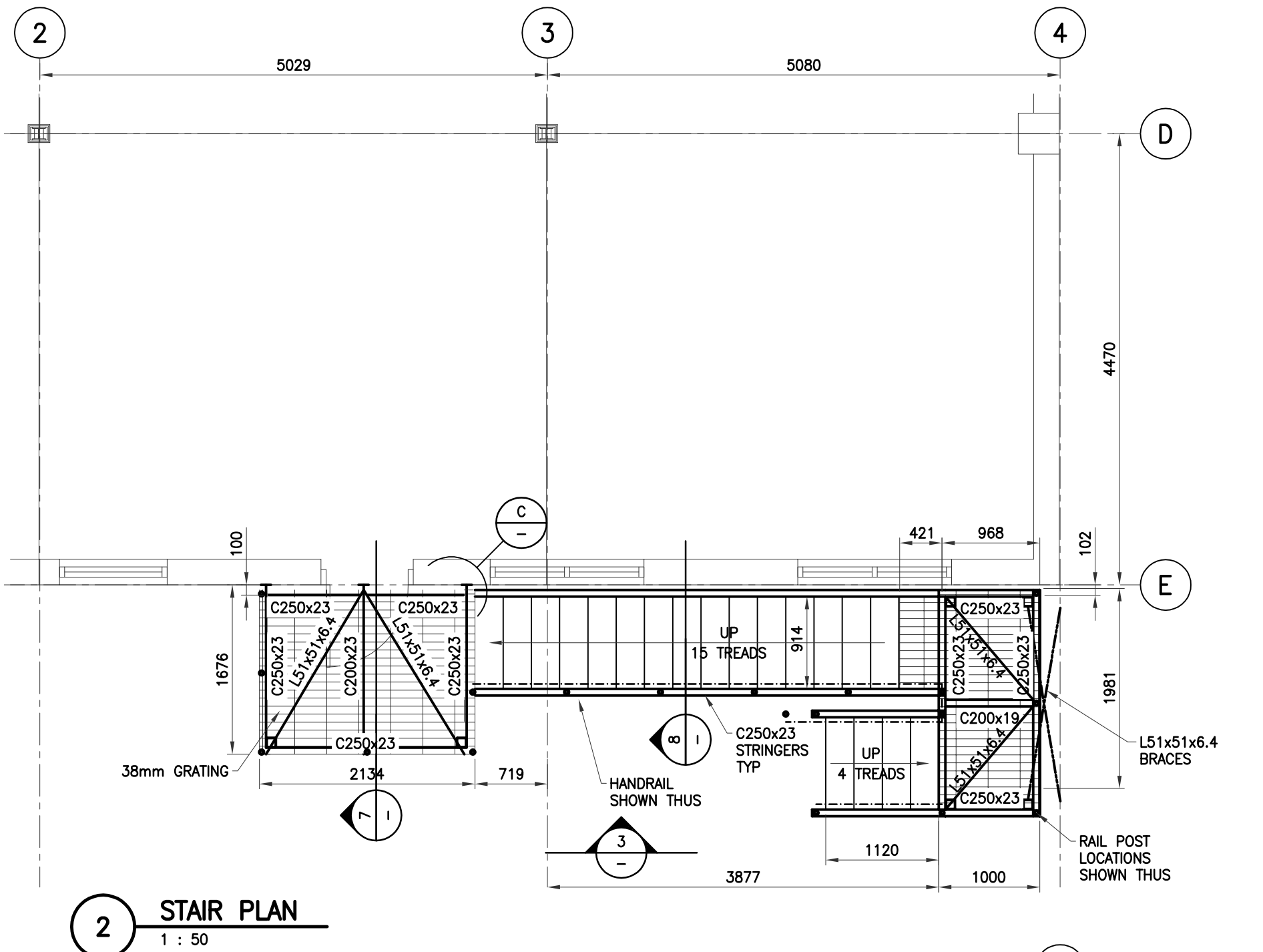
BASE PLATE 'B' DETAIL
1 : 10
NOTE: u/s ELEVATION @ 100.025



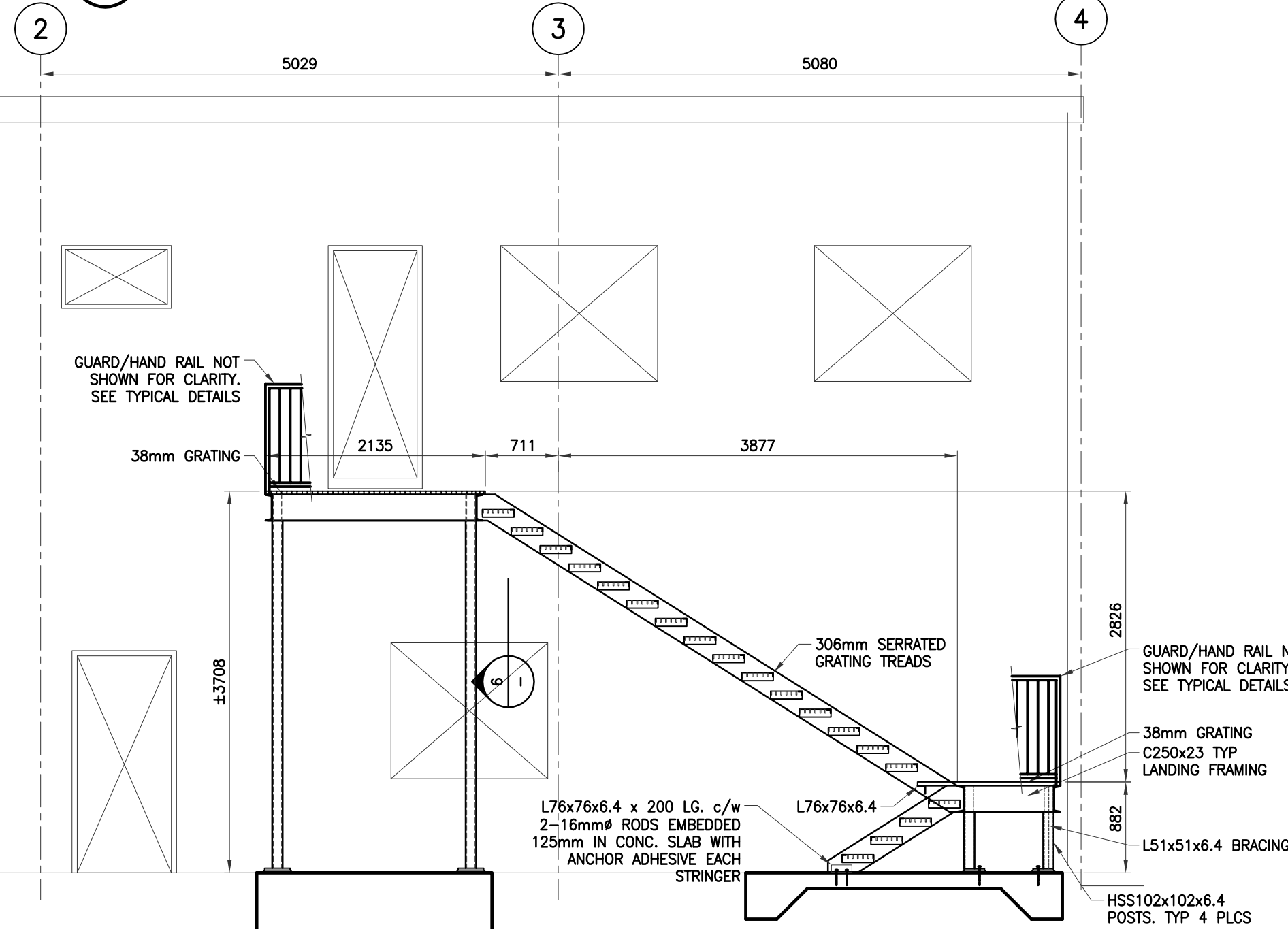
BASE PLATE 'C' DETAIL
1 : 10



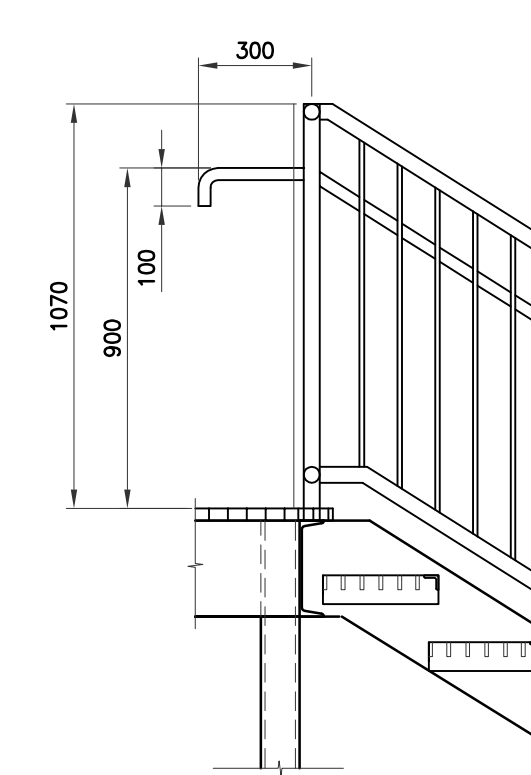
TYP. TREAD DETAIL



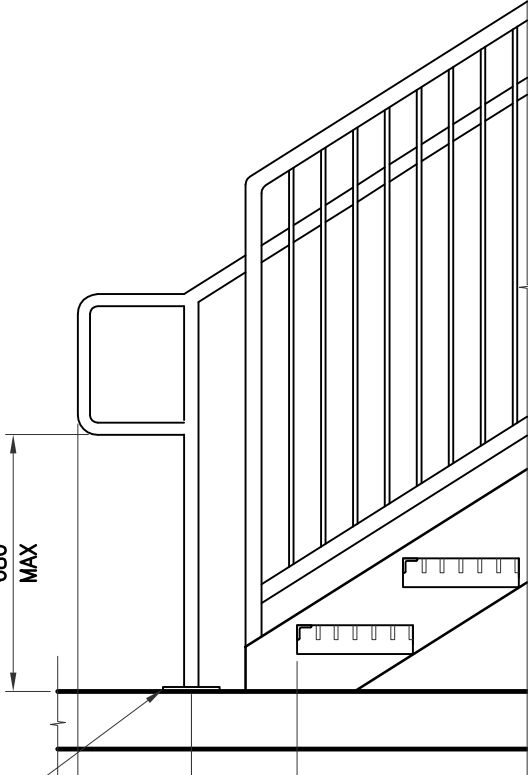
2 STAIR PLAN
1 : 50



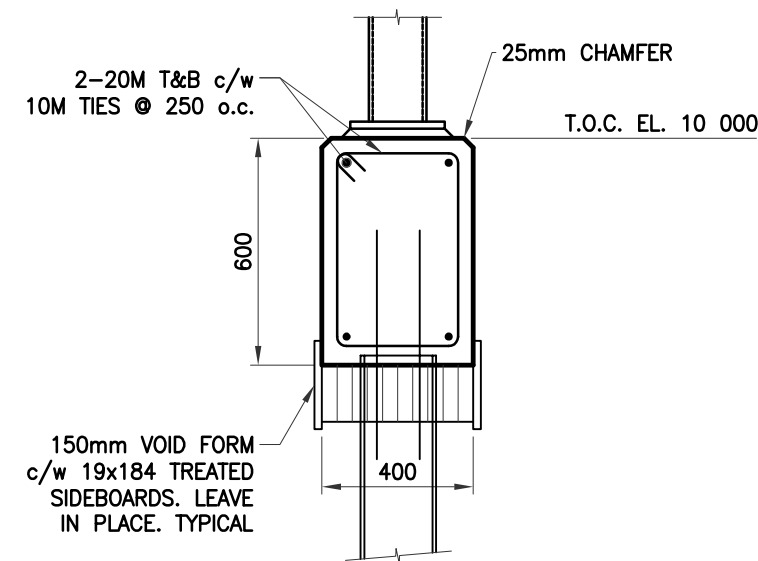
3 ELEVATION
1 : 50



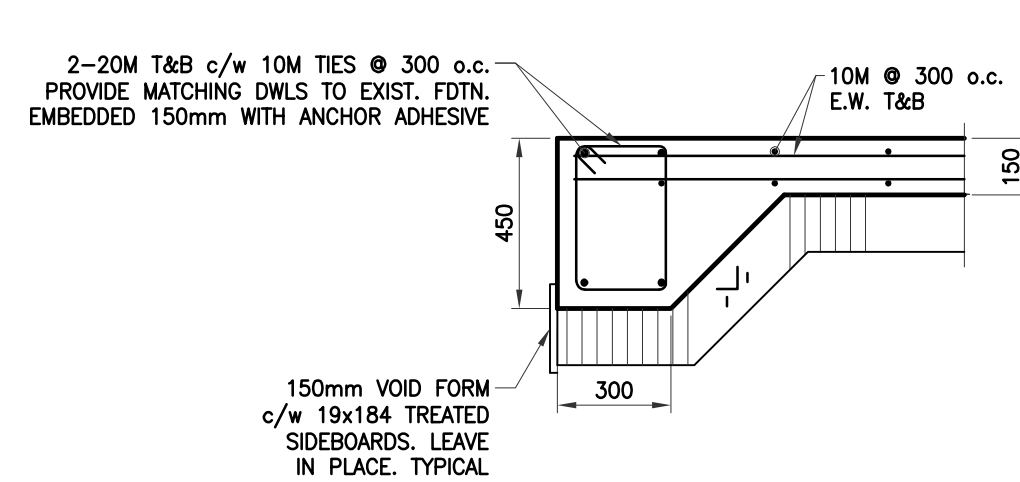
9 HANDRAIL @ TOP
1 : 20



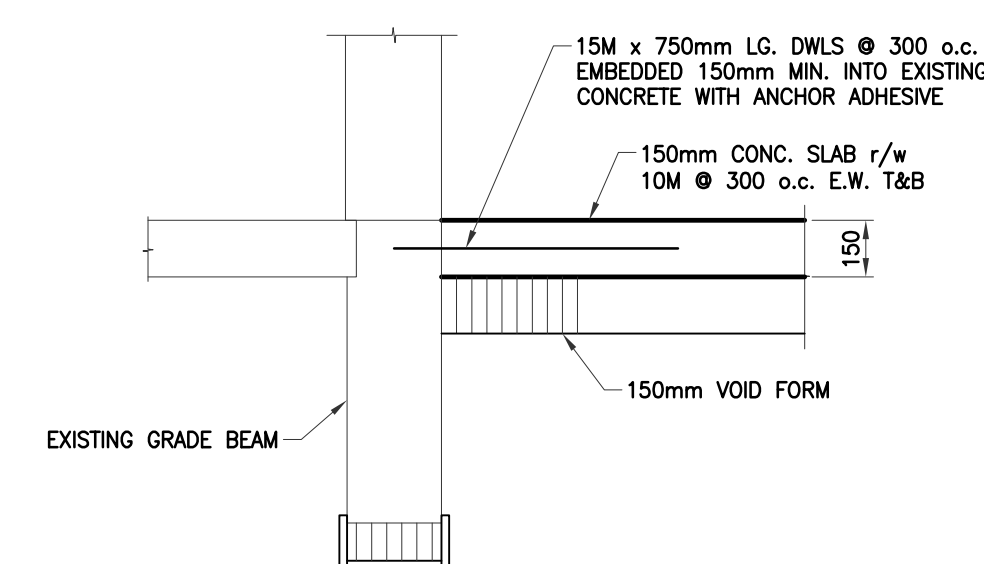
10 HANDRAIL @ BOTTOM
1 : 20



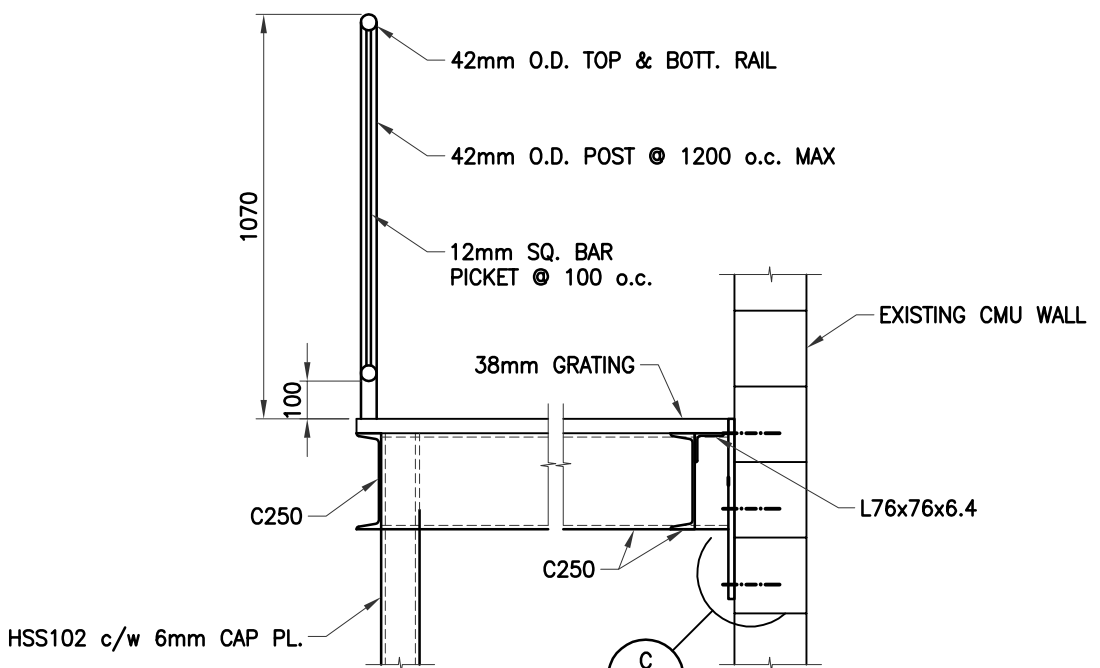
4 SECTION
1 : 20



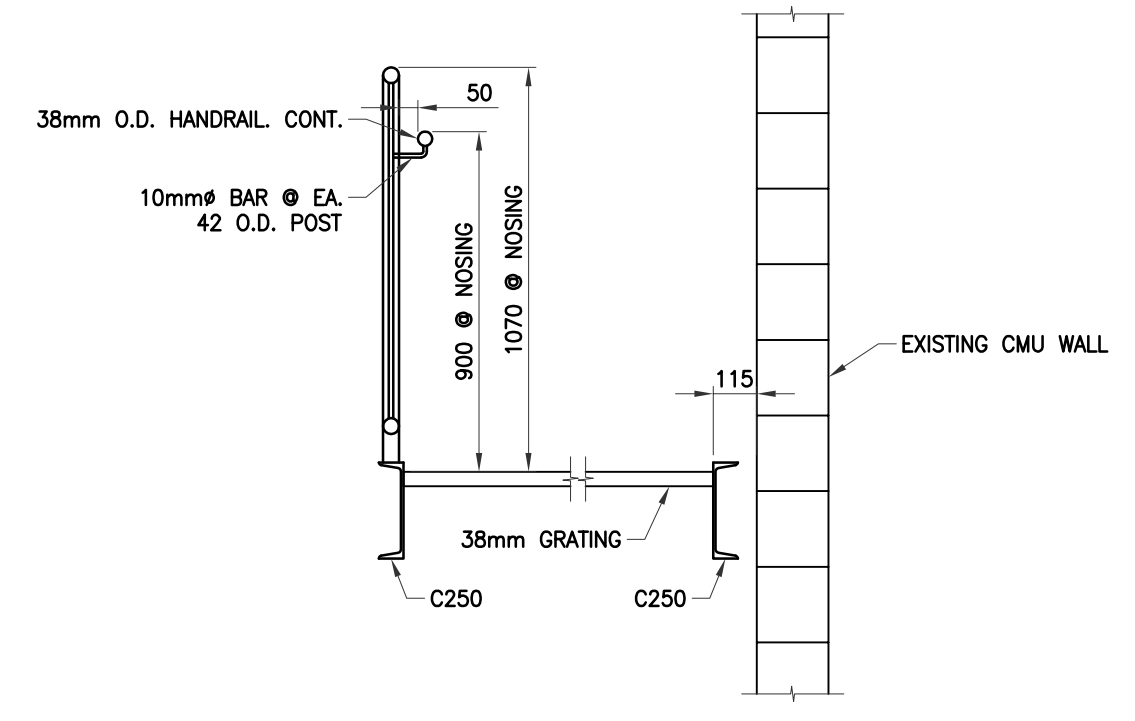
5 SECTION
1 : 20



6 SECTION
1 : 20



7 SECTION
1 : 20



8 SECTION
1 : 20

STRUCTURAL GENERAL NOTES

General Specifications, National Building Code of Canada, 2010.

Contractor to read Structural Drawings in conjunction with Architectural, Mechanical and Electrical and Equipment Manufacturer's Drawings.

Unless noted otherwise, typical details apply throughout.

Contractor to confirm all existing conditions and site measurements. Report any discrepancies to Consultant before proceeding.

Foundations

1. Piles to be designed for the loads shown on the drawings. Pile design to be sealed by an engineer registered to practice in the province of Saskatchewan.

Cast-in-Place Concrete

1. Perform cast-in-place concrete work in accordance with CAN/CSA-A23.1 "Concrete Materials and Methods of Concrete Construction".
2. Cement to CSA A3001 - "Portland Cements" and aggregates to CAN/CSA-A23.1 "Concrete Materials and Methods of Concrete Construction".
3. For all concrete in contact with soil use Symbol HS cement.
4. Grout to be premixed non-shrink non-metallic grout with minimum strength at 7 days of 40 MPa.
5. Concrete to be in accordance with the following table:

Location	Strength f _c (MPa)	Cement Symbol	Class of Exposure	Aggreg. max (mm)	Slump mm	Total Air%
Exterior Concrete	35	HS	F-2/C-1	20	50 to 80	5 to 10
Slab on Grade	25	N		20		
Interior Grade Supported Slabs	25	GU	N	20	50 to 80	None

Maximum free water/cement ratio to CAN/CSA-A23.1 table 2 for specified class of exposure.

See Mechanical & Architectural for location of slab patch/repairs.

Concrete Testing

1. Concrete testing shall be carried out by an independent testing agency, certified by CSA in accordance with the requirements of CSA A23.3.
2. Concrete testing shall be paid for by the Contractor.
3. Concrete testing shall consist of three (3) test cylinders taken for every 50 cubic meters or less of each class of concrete placed each day. One (1) cylinder to be tested at 7 days, the remaining two (2) cylinders to be tested at 28 days.
4. One (1) additional test cylinder shall be taken during cold weather concreting, and be cured on jobsite under same conditions of concrete it represents.
5. One (1) slump test and one (1) air content test shall be taken for each set of test cylinders taken.
6. One (1) slump test shall be taken before and one (1) slump test shall be taken after the addition of steel fibre and / or plasticizer to the concrete mix.
7. Testing of concrete shall be performed in accordance with CAN/CSA-A23.2.
8. Test results shall be issued to the Structural Engineer, Contractor, Owner and Ready-mixed Concrete Supplier. Test reports are to be numbered consecutively beginning with number one, and identify the location of the concrete placement in the project.
9. Required retesting will be paid for by the Contractor.

Steel Stairs

1. Structural size shapes, bar size shapes and welded shapes to CSA G40.21M, 350 MPa Weldable Grade for W shapes, 300 MPa for all other shapes.
2. Hollow structural sections to CSA G40.21M, 350 MPa Weldable Grade, Class C.
3. Plates and bars to CSA G40.21M, 300 MPa Weldable Grade.
4. Welding material to CSA W48.
5. Bolts, nuts and washers to ASTM A325. Bolts to be tightened by "Turn-of-Nut" method.
6. Anchor bolts: rods to ASTM A36, nuts and washers to ASTM A307.
7. Design and detail connections to CSA S16 and as per drawings.
8. Submit shop drawing for review prior to fabrication.
9. Hot dip galvanize ALL steel for stairs to CAN/CSA-C164, minimum zinc coating of 600 g/m².
10. Welding to CSA W59.
11. Fabrication and erection to CSA S16 and OSC Code of Standard Practice.
12. Fabricator to be certified to CSA W47.1, Class 2.
13. After erection, touch up all welds, abrasions, and all other surfaces not shop galvanized.

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region

Client

Client

Client

Client

CK A + ID

COUPLAND KRAEMER ARCHITECTURE + INTERIOR DESIGN INC.

101, 4632 1ST SE, CALGARY, AB, CANADA, T2G 2L3

TEL. 403.289.7109

FAX. 403.289.7595

Association of Professional Engineers & Geoscientists of Saskatchewan

CERTIFICATE OF AUTHORIZATION

WSP Canada Inc.

Number: C0688

Permission to Consult held by:

Design: Sk. Reg. No. Signature

15993

15 JUL 2015

PROFESSIONAL ENGINEER

SASKATCHEWAN

0	ISSUED FOR TENDER	15-06-18
REVISIONS	DESCRIPTION	DATE
	A detail number number du detail	
	B source drawing no. de dessin no.	
	C detail on drawing no. detail sur dessin no.	
project title	RCMP ESTEVAN TENANT FIT-UP	
1320 4TH STREET ESTEVAN, SASKATCHEWAN		
drawing title	STAIR PLANS	
designed by	M.D.B.	conçu par
drawn by	J.W.C./A.M.C.	dessiné par
approved by		approuvé par
PWOSC Project Manager	Administrateur de Projets TPSGC	
scale	AS NOTED	échelle
project no.	R.063116.001	projet no.
date	15 JUNE 2015	date
		sheet
		S2.1
		OF 1