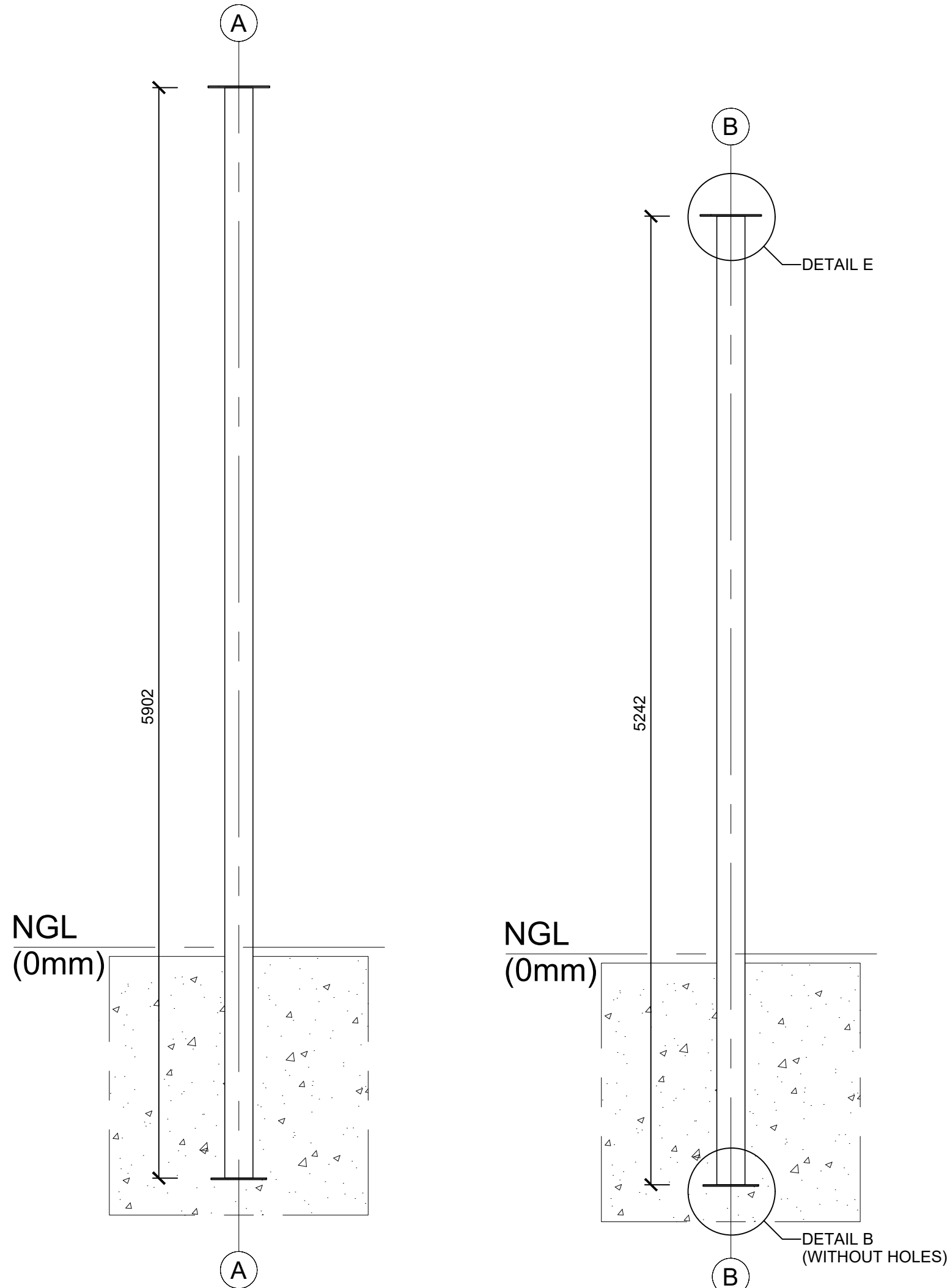


BEAM DETAIL
(5 NO. OFF)

SCALE 1:25

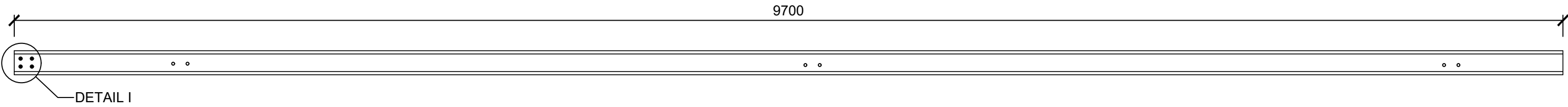


LONG COLUMN DETAIL
(2 NO. OFF)

SCALE 1:25

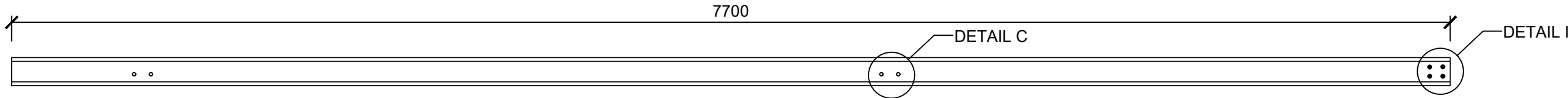
SHORT COLUMN DETAIL
(2 NO. OFF)

SCALE 1:25



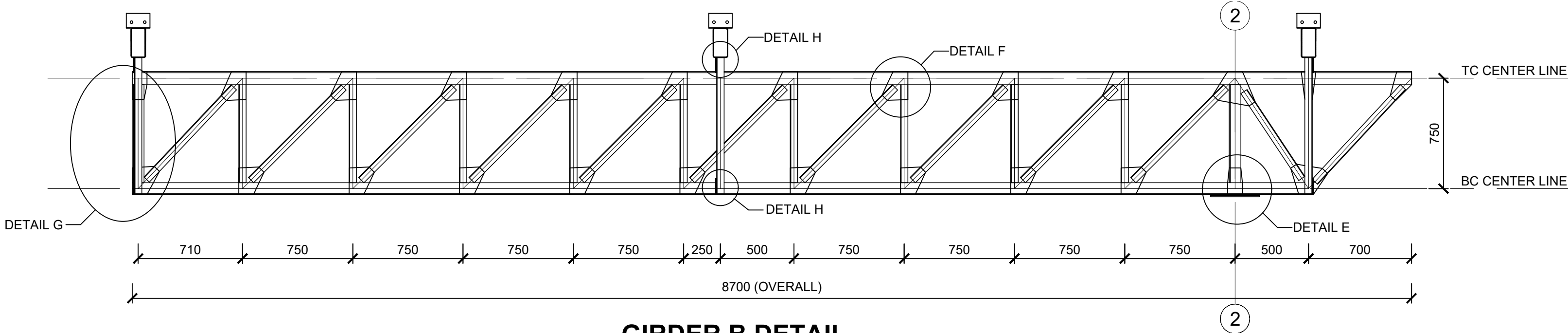
LONG PURLIN DETAIL
(7 NO. OFF)

SCALE 1:25



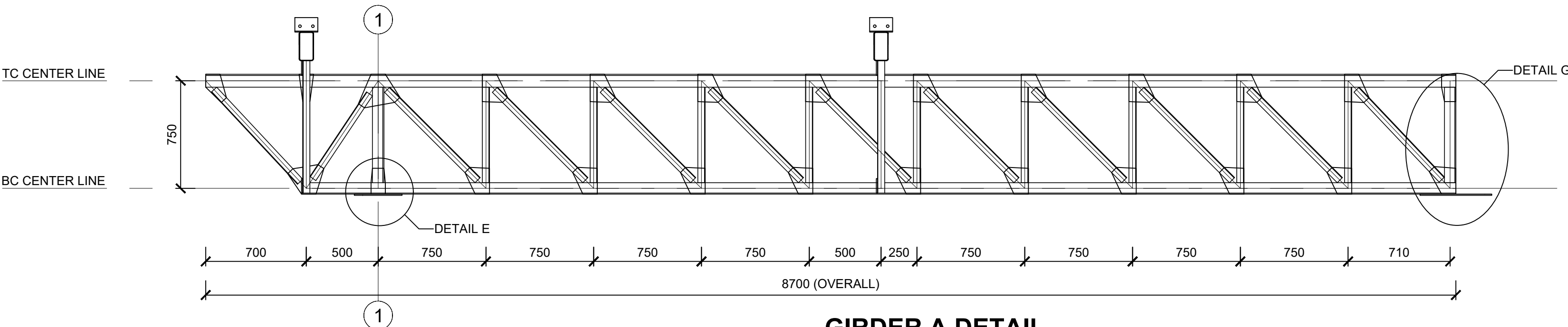
SHORT PURLIN DETAIL
(7 NO. OFF)

SCALE 1:25



GIRDER B DETAIL
(2 NO. OFF)

SCALE 1:25



GIRDER A DETAIL
(2 NO. OFF)

SCALE 1:25

NOTE: THE INFORMATION IN THIS TABLE IS FOR ONE ASSEMBLY ROOF AREA WITH 4 NO. OFF BASES ONLY AND EXCLUDES GUSSETS, END PLATES, SHEETING AND BOLTS.				
ITEM	LENGTH (mm)	MASS (kg)	QUANTITY (No. OFF)	TOTAL MASS (kg)
GIRDER A	8700	255	2	510
GIRDER B	8700	255	2	510
BEAM	9860	181	5	905
SHORT COLUMN	5242	58	2	116
LONG COLUMN	5902	65	2	130
SHORT PURLIN	7700	40	7	280
LONG PURLIN	9700	50	7	350
SHORT BRACING	900	3	10	30
LONG BRACING	1020	3	10	32
OVERALL MASS (kg)				2863

- NOTE:
- NO ALTERATIONS OR ADDITIONS TO THE STRUCTURES ARE PERMITTED WITHOUT APPROVAL BY THE DESIGN ENGINEER.
 - ALL DIMENSIONS ARE MEASURED TO CENTRE LINES, UNLESS OTHERWISE SPECIFIED.
 - ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED BY A REGISTERED ENGINEER.

FOR CONSTRUCTION

NOTES

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GENERAL NOTES

STRUCTURAL STEELWORK :

1. ALL STRUCTURAL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SABS 1008 H.

2. WELDS SHALL CONFORM TO SABS 0167 - 1984 AND 044 SPECIFICATIONS.

3. ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE SHOP DRAWINGS COMMENCE. ALL ENGINEER'S DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

4. A COMPLETE SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION COMMENCES.

5. ALL STRUCTURAL STEELWORK SHALL BE GRADE S355JR.

6. ALL STRUCTURAL BOLTS SHALL BE GRADE 4.8 UNLESS OTHERWISE NOTED.

7. WHERE TEMPORARY BRACING OR PROPPING IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL (WHERE NECESSARY) OF SUCH SUPPORTS. IF SPLICES IN TRUSSES ARE REQUIRED BECAUSE OF TRANSPORT, PROPOSAL OF THIS SHALL BE SUBMITTED TO THE ENGINEER AT AN EARLY STAGE FOR WRITTEN APPROVAL.

8. CORROSION PROTECTION SHALL CONSIST OF:
8.1 REMOVE ALL SLAG FROM WELDED JOINTS TO EXPOSE THE STEELWORK.
8.2 BRUSH STEELWORK WITH A ROTARY WIRE BRUSH TO S.I.S. 3.5 STANDARD.
8.3 APPLY ONE COAT (30 MICRON) RED LEAD PRIMER IN ACCORDANCE WITH SABS 681.
8.4 APPLY ONE COAT (30 MICRON MINIMUM) MULTIPURPOSE UNDERCOAT IN ACCORDANCE WITH SABS 681. USE TYPE II IF PAINT IS APPLIED WITHIN 16 HOURS OF APPLICATION OF RED LEAD PRIMER. OTHERWISE USE TYPE I.
8.5 APPLY ONE COAT OF ALKYO BASE ENAMEL (30 MICRON) TO ARCHITECT'S COLOUR SPECIFICATION. DAMAGED AREAS OF PAINT SHALL BE MADE GOOD ON SITE IN ACCORDANCE WITH SABS 0120.

NOTE: FOR EXPOSED STEELWORK (INTERIOR OR EXTERIOR) 8.1, 8.2, 8.3, 8.4 AND 8.5 APPLY.
FOR CONCEALED ROOF TRUSSES 8.1, 8.2 AND 8.3 APPLY.

9. WHERE APPLICABLE, GROUT SHALL BE PROVIDED UNDER BASE PLATES BEFORE ANY PRIMARY LOADS ARE APPLIED TO THE STRUCTURE.

10. THE ANGLE IRONS SUPPORTING THE BRICK WALLS MUST BE PAINTED AS FOLLOWS:
10.1 REMOVE ALL SLAG FROM WELDED JOINTS TO EXPOSE THE STEELWORK.
10.2 BRUSH STEELWORK WITH A ROTARY WIRE BRUSH TO S.I.S. 3.5.
10.3 APPLY ONE COAT PA 10 ETCH PRIMER.
10.4 APPLY ONE COAT ALKYO UNDERCOAT.
10.5 APPLY ONE COAT ALKYO TOPCOAT.

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Client:

Client project number:

MPUMALANGA DEPARTMENT
EDUCATION

CLIENT APPROVED

Approved by :

Date :

Project Name:

PROTOTYPE COVERED ASSEMBLY
AREA

Discipline:

STRUCTURAL ENGINEERING

Work Description:

CONSTRUCTION DRAWING

Drawing Title:

ASSEMBLY AREA ROOF
DETAILS 4 OF 4

Consultant:

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CESA

ISO 9001:2015 CERTIFIED

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Professional. Reg. No. 20160575

Date :

DRAWN:

CHECKED:

initials

signature:

date:

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Scale (at A1)

DATE:

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2 NOVEMBER 2018

Drg no.

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