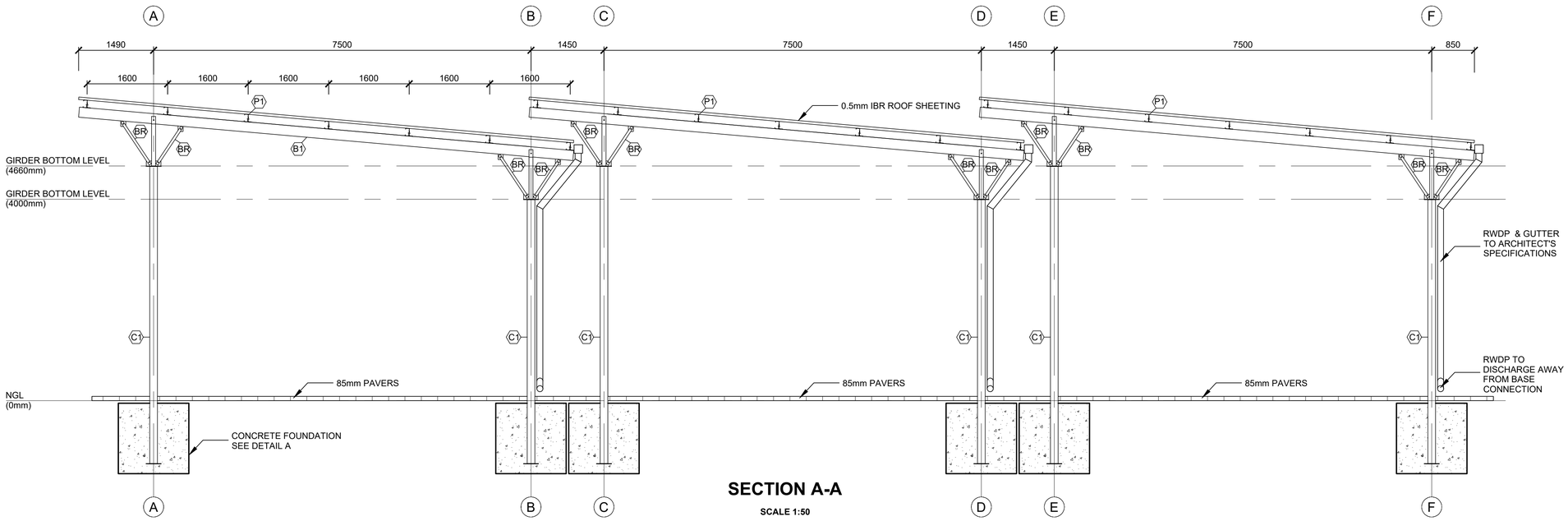
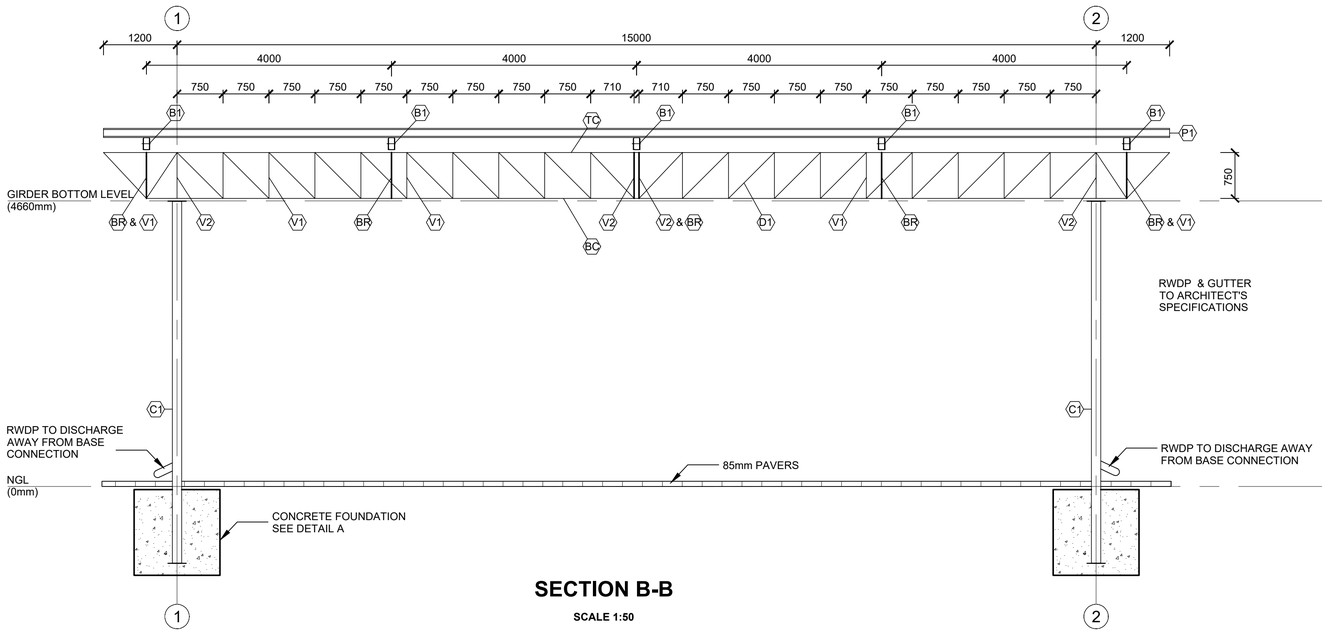


SECTION A-A

SCALE 1:50

LEGEND:

P1	P1 - PURLINS:	150x75x20x2.0 COLD-FORMED LIPPED CHANNELS
B1	B1 - BEAM 1:	200x100x4.0 RECTANGULAR HOLLOW SECTION
TC	TC - TOP CHORD:	90x90x8 ANGLE
BC	BC - BOTTOM CHORD:	80x80x8 ANGLE
D1	D1 - DIAGONALS:	50x50x4 ANGLE
V1	V1 - VERTICALS:	50x50x4 ANGLE
V2	V2 - VERTICALS:	80x80x8 ANGLE (ABOVE COLUMNS & AT CENTER SPAN OF TRUSS)
C1	C1 - COLUMN:	152.4x3.0 CIRCULAR HOLLOW SECTION
BR	BR - BRACING:	50x50x4 ANGLE (INSTALLED AT EVERY B1 & GIRDER INTERSECTION)
CL	CL - CLEATS:	75x100x6 ANGLE



SECTION B-B

SCALE 1:50

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 1200 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) MULTI-PURPOSE 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 ALKYD 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 ALKYD UNDERCOAT.
- 10.5 APPLY ONE COAT ALKYD TOPCOAT.

Rev.	Drawn	Chkd.	Apprvd.	Date.	Description
0	SW	SW	SW	02/11/18	ISSUED FOR CONSTRUCTION

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 2 OF 4

Consultant:
Afrisa CONSULTING — Transforming visions into reality
CESA Consulting Engineers South Africa
ISO 9001:2015 CERTIFIED

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AFRISA APPROVED

S. WILDING (PrEng)

Professional. Reg. No. 20160575

Date :

DRAWN:	CHECKED: initials	signature:	date:	APPROVED:
SW	SW		02.11.18	SW

Scale (at A1): AS SHOWN

DATE: 2 NOVEMBER 2018

Drg no.: **AFR171-CD-101**

Rev.: **0**

ORIGINAL DRAWING SIZE 841 x 594

Original drawing: 0 10 20 50 100mm

Drawing File Name: G:\Dropbox (AFRISA CONSULTING)\AFRISA CONSULTING (1)\PROJECTS\STANDARD DRAWINGS\Covered Assembly Area\AFR171-CD-100-103 (Assebly area).dwg