



**Belgium**

partner in development

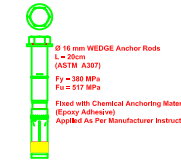
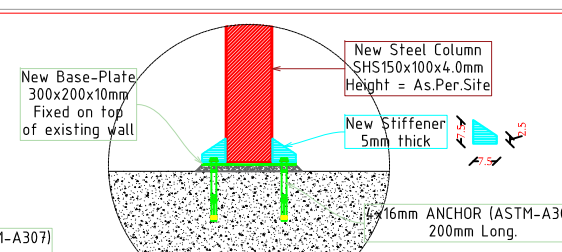
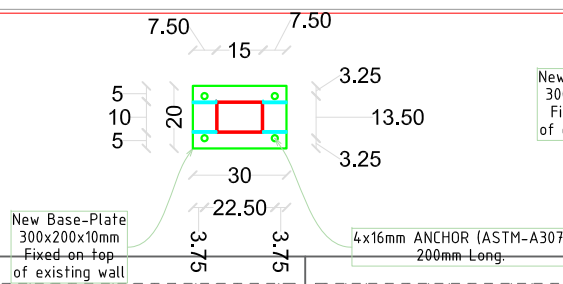
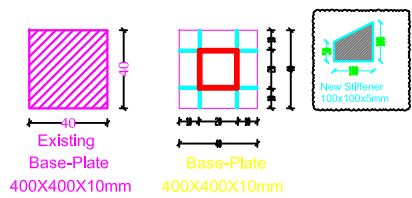
**Enabel** 

# The Construction of an External Curved Steel Roof Canopy at Al-Sheikh Saad Girls 'School

PSE22001-10098



JAN 2025



**PROJECT TITLE:**  
**The Construction of an External Curved Steel Roof Canopy at Al-Sheikh Saad Girls 'School**

**REFERENCE:#** **PSE22001-10098**

- GENERAL REMARKS:**
- All Dimension in Meters. Unless Stated Other Wise.
  - All Levels are in Meters.
  - All level in Plans, Sections & Elevations relevant to Zero Level.
  - Corridors Floor Finish is 12(cm) and for Rooms is 14(cm) and for Terrace 10(cm).
  - Any Unclear Data Shall be Cleared by the Supervision Engineer.
  - All Windows have Protection Guards Fence.
  - All Staircase Tiles are Non-Slip Tiles.
  - All Emergency Doors are Smoke Proof and with Automatic Closures and 2(Hour Fire-Rated).

**LEGEND & SYMBOLS:**

|                         |                            |
|-------------------------|----------------------------|
| Section Number          | Bar Reinforcement Concrete |
| Outside No. & Sheet No. | Steel Walls                |
| Finish Floor Level      | Plan Concrete              |
| Base Concrete Level     | Concrete Block             |
| Level @ Floor           | Slab                       |
| Window Number           | Stone                      |
| Door Number             | R.C.C. Item Concrete Level |
|                         | F.F.L. Finish Floor Level  |
|                         | S.L. Site Level            |

**REVISION HISTORY :**

| NO     | DRAWINGS | DATE |
|--------|----------|------|
| REV01. |          |      |
| REV02. |          |      |
| REV03. |          |      |
| REV04. |          |      |
| REV05. |          |      |
| REV06. |          |      |

**CONTRACTING AUTHORITY :**

**Enabel**

Enabel - Belgian Development Agency

**FUNDED BY:**

**Belgium**  
partner in development

**CONSULTANT:**

**ARAB ENGINEERS**  
المهندسون العرب

Address: Hebron-Hallul -Main Street-Natsha Building  
 Telefax: +970 2 2251215 Tel: +970 2 2226361  
 Email: info@arabengineers-Pal.com  
 Website: www.arabengineers-Pal.com

**SHEET NO.:** **S01**

**SHEET TITLE:** **External Works Yard Shade Existing R.C.Column Neck Existing & New Base Plate**

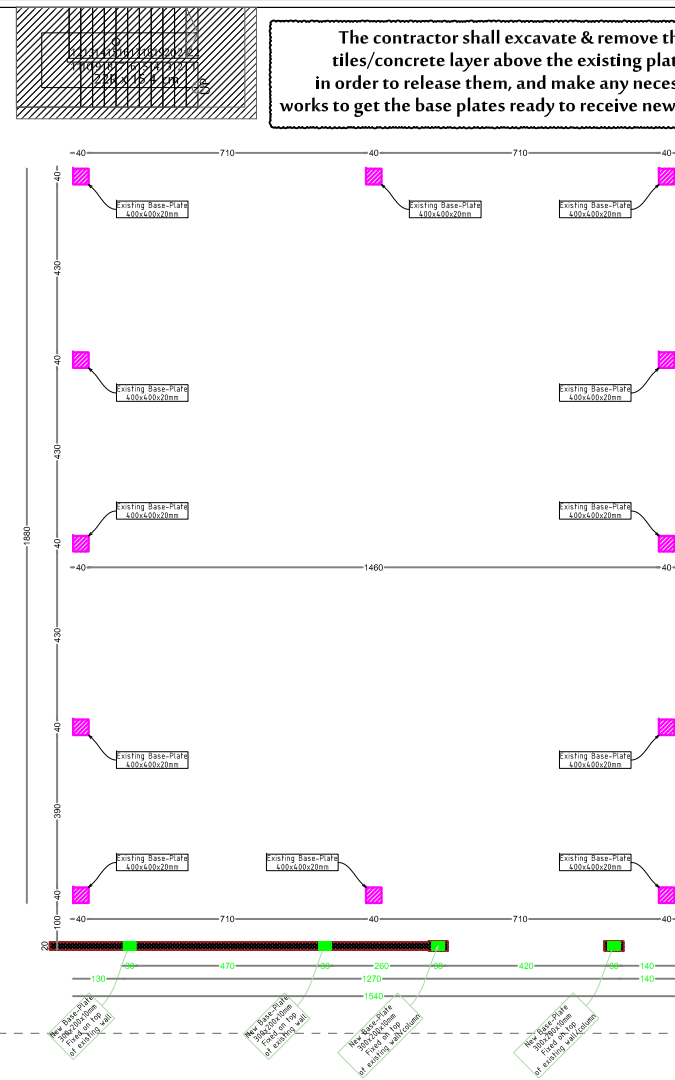
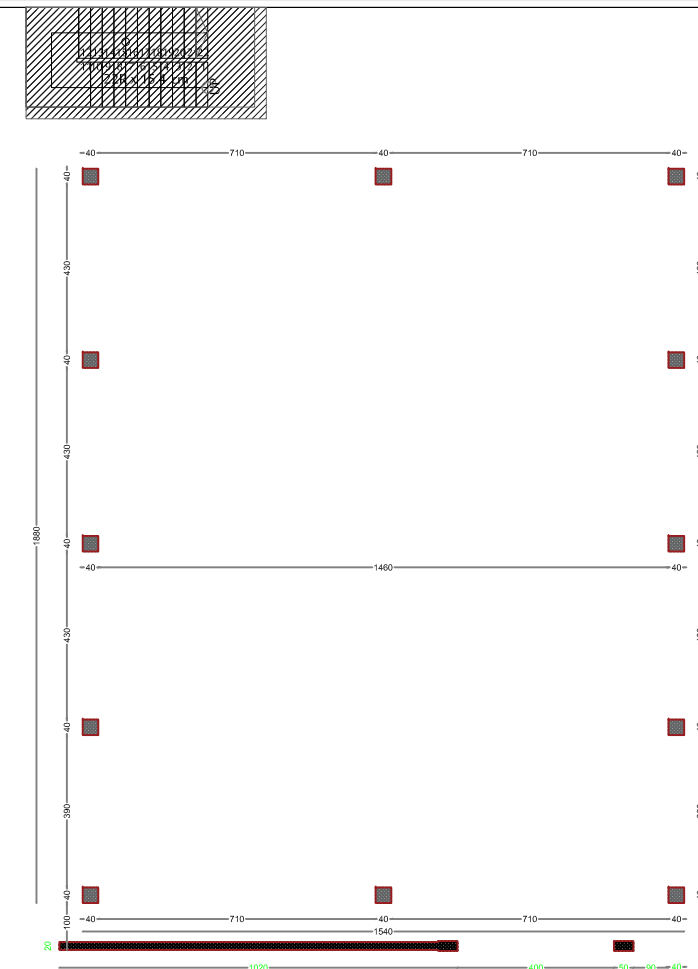
**DESIGNER:** AE -Structural Team

**CHECKED BY:** AE -Structural Team

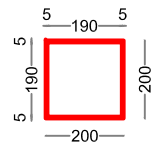
**DRAWN BY:** AE -Structural Team

**SCALE:**

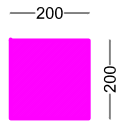
**DATE:** 01-2025



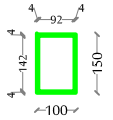
**Existing Base-Plate & New Base-Plate**



SHS: 200x5mm  
No.=12

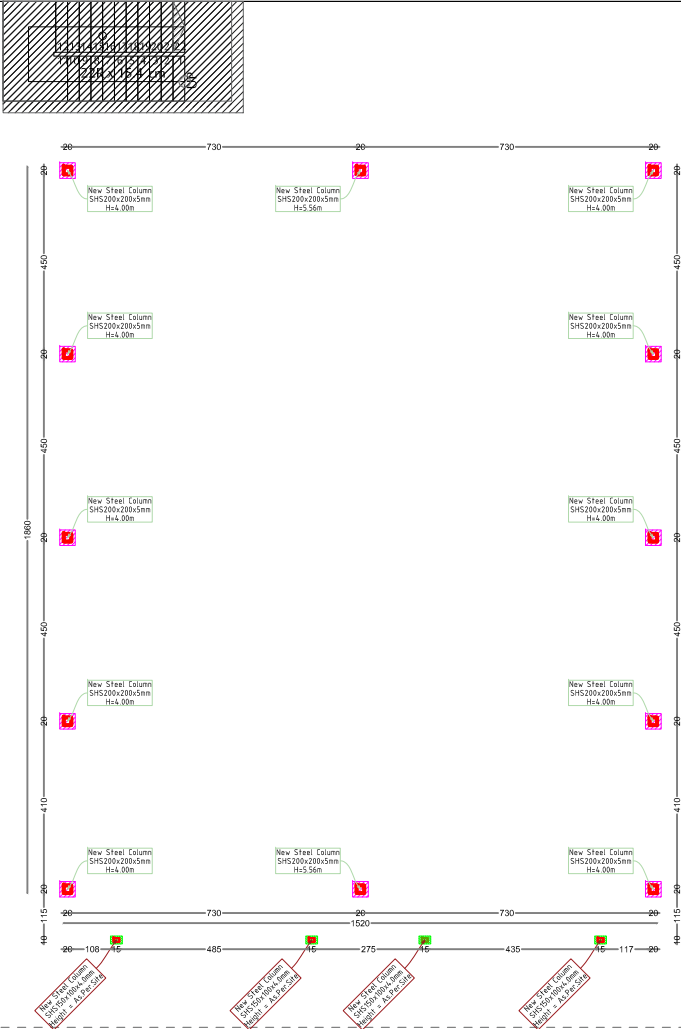


New Steel End Plate Above Column  
200x200x5mm  
No.=12



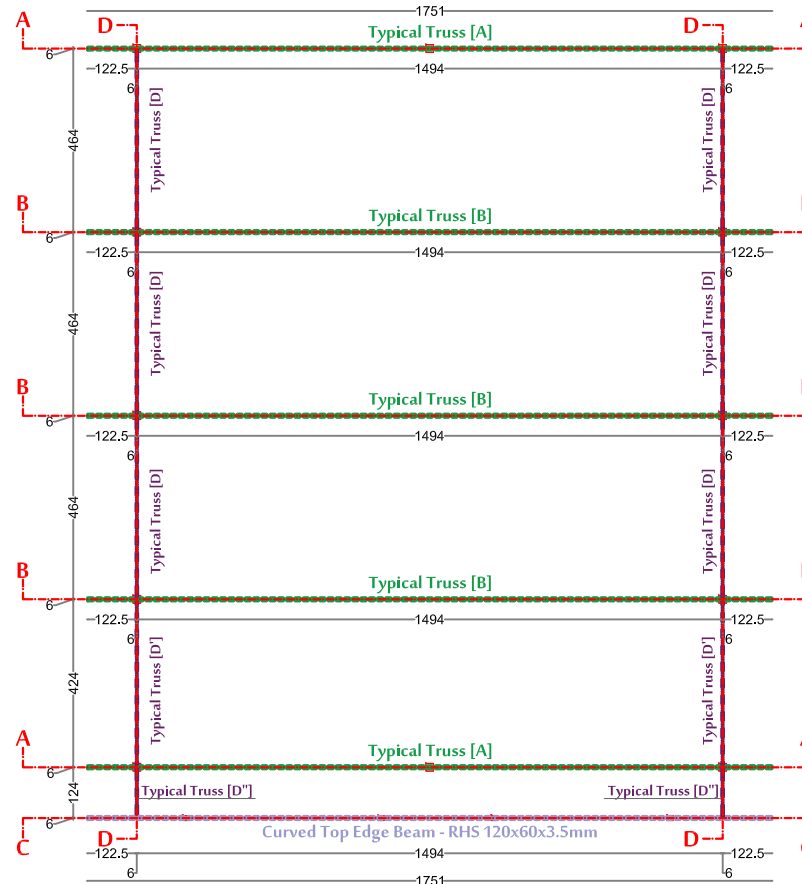
RHS: 150x1000x4mm  
No.=4

Existing Building



New Steel Column Plan  
SHS: 200x5mm

Existing Building



New Truss Plan

PROJECT TITLE:

The Construction of an  
External Curved Steel  
Roof Canopy at Al-Sheikh  
Saad Girls 'School

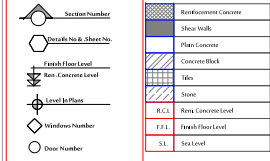
REFERENCE:#

PSE22001-10098

GENERAL REMARKS:

- All Dimension in Meters. Unless Stated Other Wise.
- All Levels are in Meters.
- All level in Plans, Sections & Elevations relevant to Zero Level.
- Corridors Floor Finish is 12cm and for Rooms is 14cm and for Terrace 10cm.
- Any Unclear Data Shall be Cleared by the Supervision Engineer.
- All Windows have Protection Guards Fence.
- All Staircase Tiles are Non-Slip Tiles.
- All Emergency Doors are Smoke Proof and with Automatic Closures and 2(Hour Fire-Rated).

LEGEND & SYMBOLS:



REVISION HISTORY :

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| REV03. |          |      |
| REV04. |          |      |
| REV05. |          |      |
| REV06. |          |      |

CONTRACTING AUTHORITY :



Enabel -Belgian Development Agency

FUNDED BY:



CONSULTANT:



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Email : info@arabengineers-Pal.com  
Website : www.arabengineers-Pal.com

SHEET NO.:

S02

SHEET TITLE:

External Works  
Yard Shade  
Steel Column Plan  
Main Trusses Layout

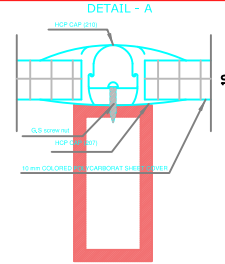
DESIGNER: AE -Structural Team

CHECKED BY: AE -Structural Team

DRAWN BY: AE -Structural Team

SCALE:

DATE: 01-2025



| GENERAL REMARKS:  |  |
|---|--|
| -1/All Dimension in Meters. Unless Stated Other Wise.                                     |  |
| -2/All Levels are in Meters.  |  |
| -3/All level in Plans Sections & Elevation relevant to Zero Level.                        |  |
| -4/Corridor Floor Finish is 12(cm) and for Rooms is 14(cm) and for Toilet 10(cm).         |  |
| -5/Any Unclear Data Shall be Clarified by the Supervision Engineer.                       |  |
| -6/All Windows have Protection Guards Fence.  |  |
| -7/All Staircase Tiles are Non-Slip Tiles.  |  |
| -8/All Emergency Doors are Smoke Proof and with Automatic Closure and 2(Hour Fire-Rated). |  |

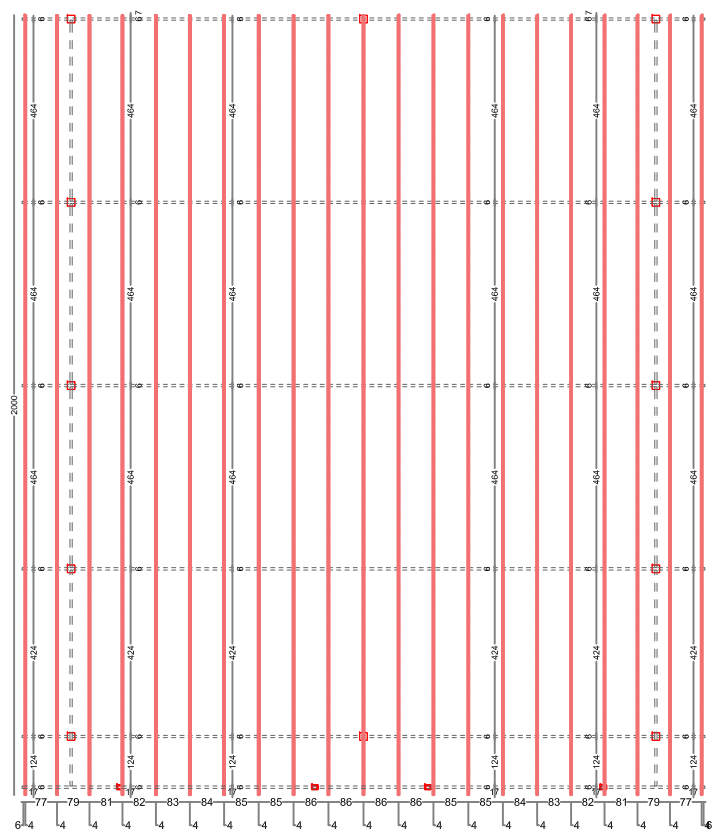
| REVISION HISTORY : |          |      |
|--------------------|----------|------|
| NO                 | DRAWINGS | DATE |
| REV01.             |          |      |
| REV02.             |          |      |
| REV03.             |          |      |
| REV04.             |          |      |
| REV05.             |          |      |
| REV06.             |          |      |

FUNDED BY:

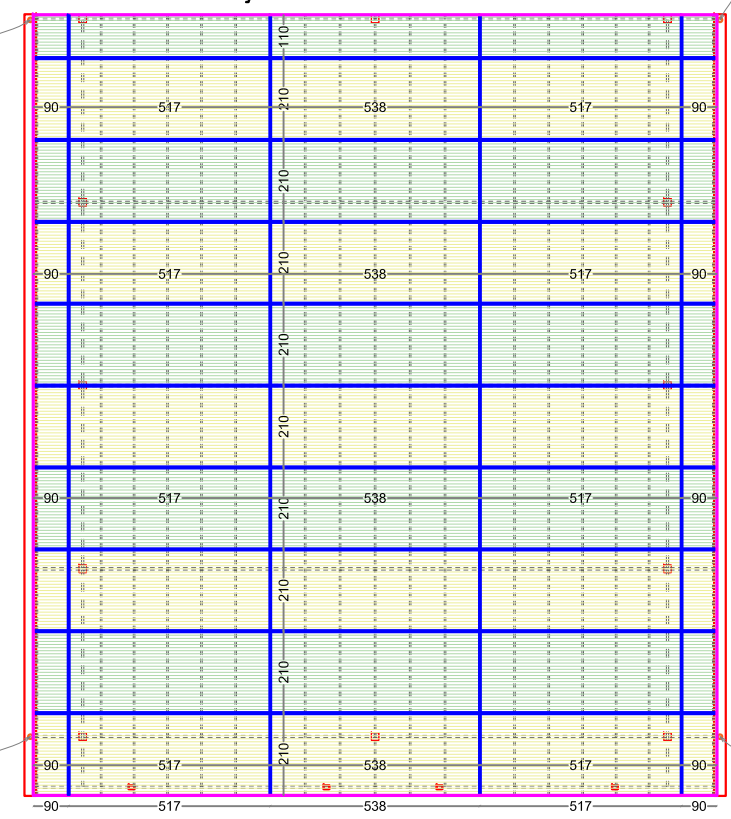
The logo for Belgium's partner in development, featuring a stylized graphic of a person or flower in grey, yellow, and red, followed by the text "Belgium" and "partner in development".

|            |                            |
|------------|----------------------------|
| SHEET NO.: | SHEET TITLE:               |
| S 03       | External Works             |
|            | Yard Shade                 |
|            | Roof Purlins Plan          |
|            | Roof Cladding /Roof Layout |

|  |
|--|
|  |
|  |

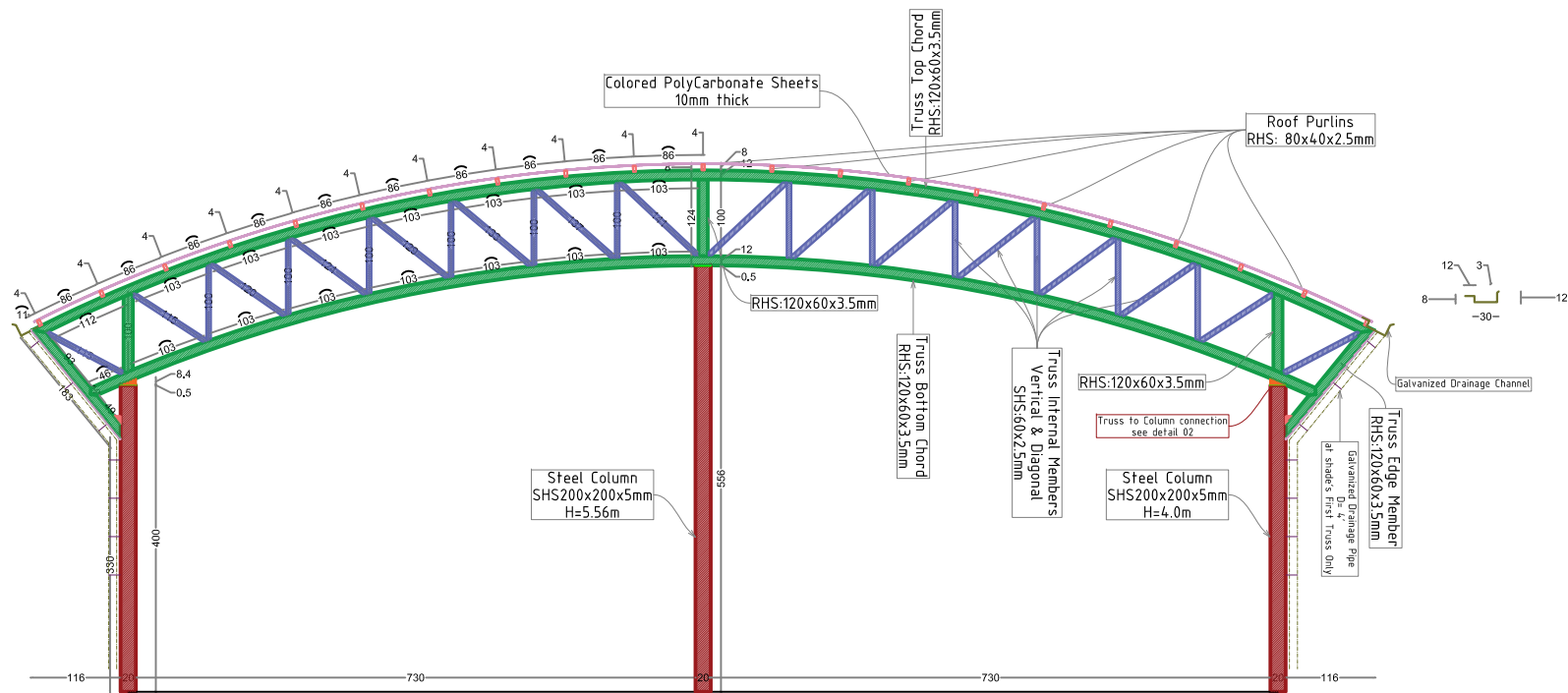


**RHS: 80x40x2.5mm**

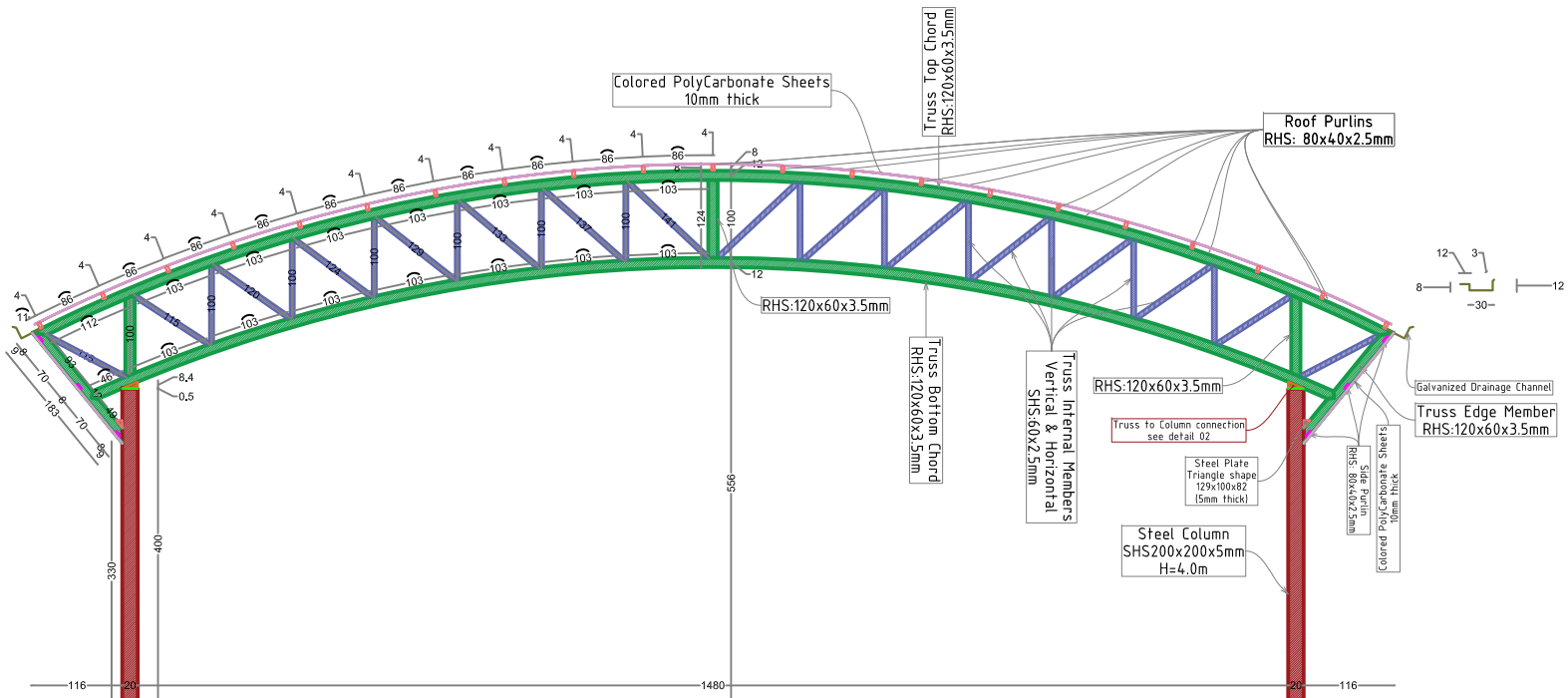


Roof Layout - Top

Diagram showing the top view of the roof layout. Dimensions include 9, 11, 5, 15, and 30. A component labeled "Galvanized Drainage Channel" is indicated.



Typical Truss [Section A-A]



Typical Truss [Section B-B]

PROJECT TITLE:

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Saad Girls 'School



















REFERENCE:#

PSE2001-10098

GENERAL REMARKS:

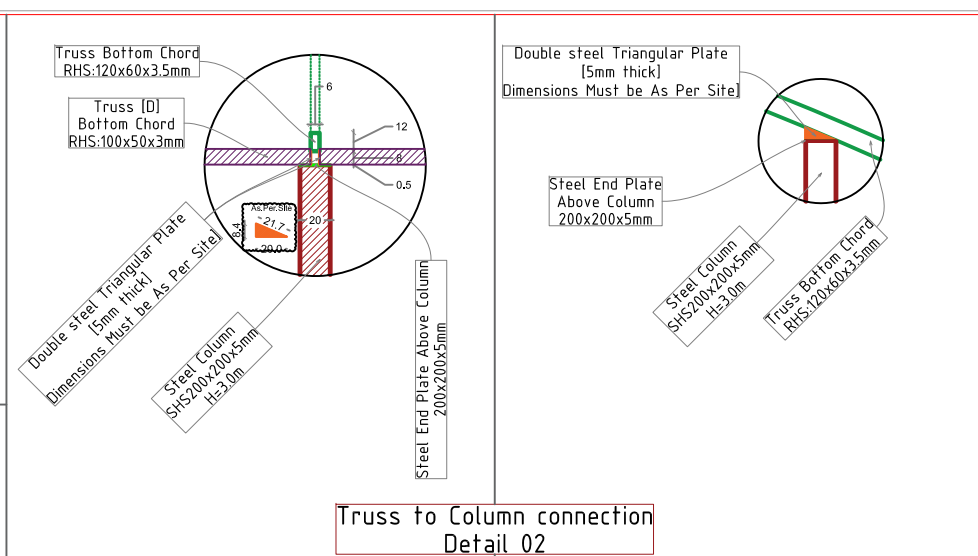
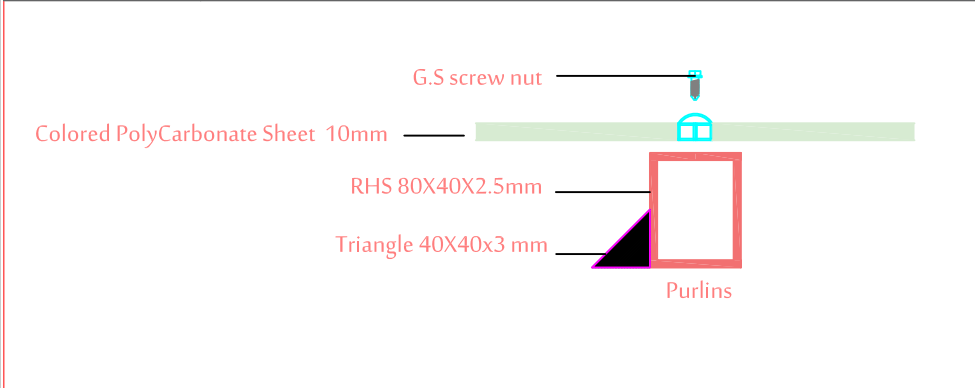
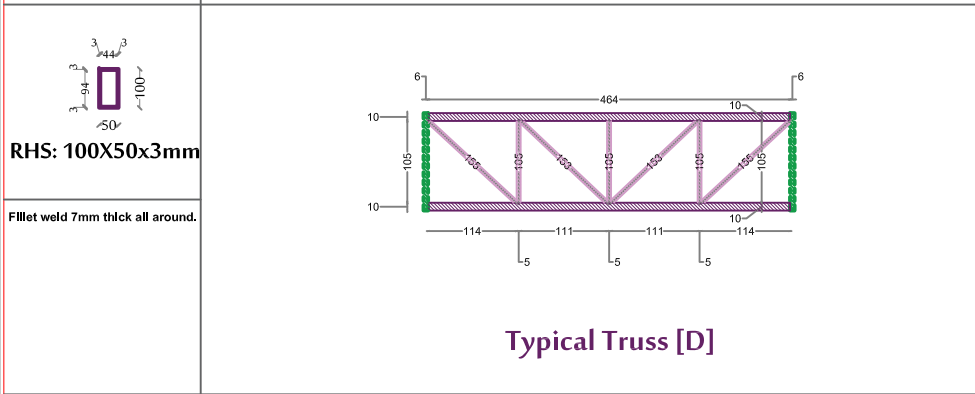
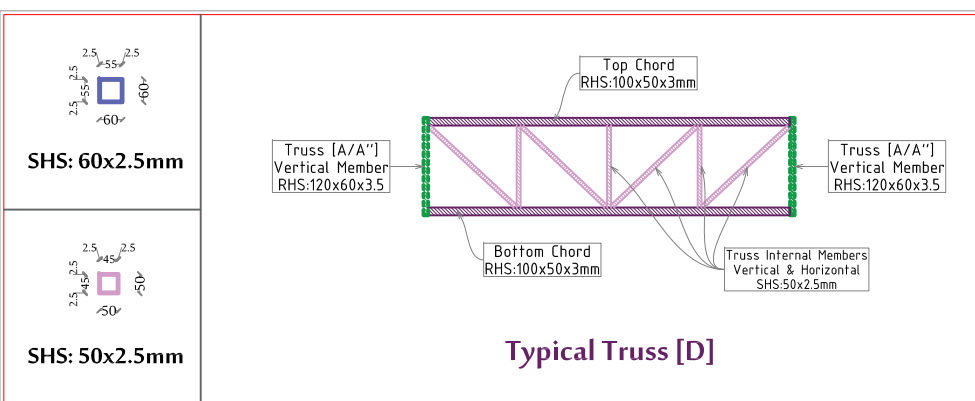
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LEGEND &SAMBOLES:

|   |                         |   |                     |
|---|-------------------------|---|---------------------|
|  | Section Number          |  | Randomness Concrete |
|  | Details No. & Sheet No. |  | Shore Walls         |
|  | Finish/Floor Level      |  | Plain Concrete      |
|  | Run, Concrete Level     |  | Concrete Block      |
|  | Level In Plans          |  | Thin                |
|  | Windows Number          |  | Stone               |
|  | Door Number             |  | R/C                 |
|   |                         |  | Runk Concrete Level |
|   |                         |  | F.F.L.              |
|   |                         |  | Finish Floor Level  |
|   |                         |  | S.L.                |
|   |                         |   | Sea Level           |







**STEEL WORKS**

1. CONNECTIONS: PROVIDE CONNECTIONS AS SHOWN IN THE DETAILS.

2. WELDING REQUIREMENTS:

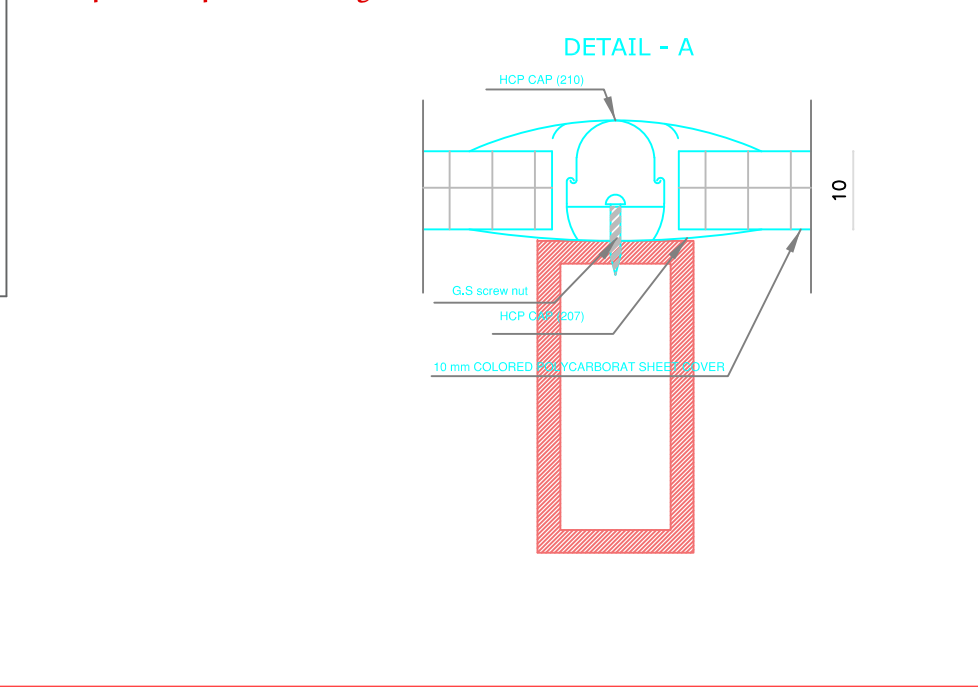
MINIMUM WELDS: NOT LESS THAN 3/16in FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.

WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE

**Welding type: Mig weld - gas shielded arc welding wire [copper 1.2mm thick]**

**75/25 argon mix gas shall be used**

**Three passes required, welding thickness shall not be less than 7mm**



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**LEGEND &SYMBOLS:**

|                |                     |
|----------------|---------------------|
| Section Number | Randomness Concrete |
| Shade Walls    | Shade Walls         |
| Plain Concrete | Plain Concrete      |
| Concrete Block | Concrete Block      |
| Walls          | Walls               |
| Roof           | Roof                |
| Level to Floor | Level to Floor      |
| Window Number  | Window Number       |
| Door Number    | Door Number         |

**REVISION HISTORY :**

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| REV02. |          |      |
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Email: info@arabengineers-Pal.com

Website: www.arabengineers-Pal.com

**SHEET NO.:** S 06

**SHEET TITLE:** External Works Yard Shade Main Trusses Details

**DESIGNER:** AE -Structural Team

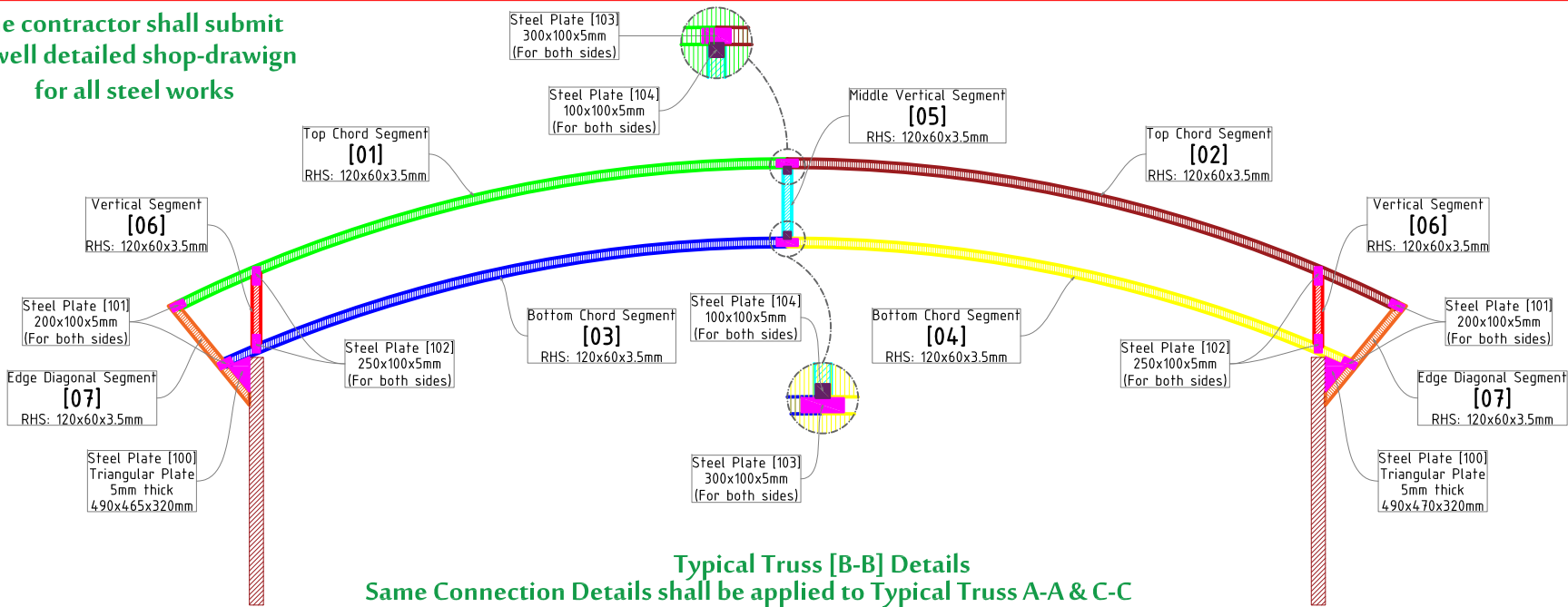
**CHECKED BY:** AE -Structural Team

**DRAWN BY:** AE -Structural Team

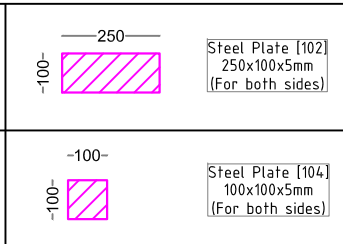
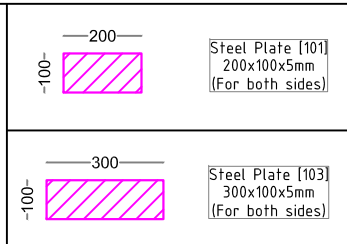
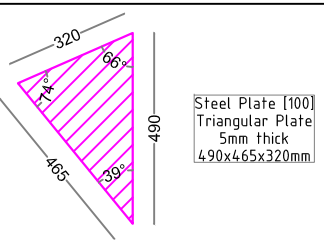
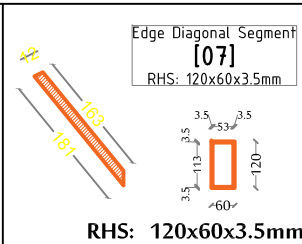
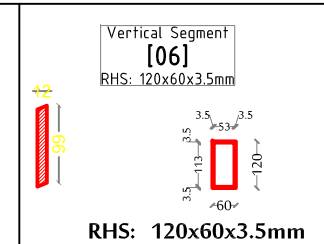
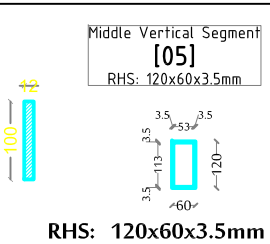
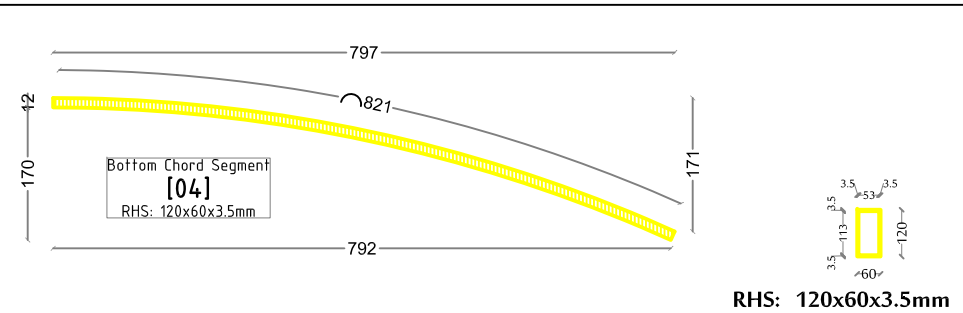
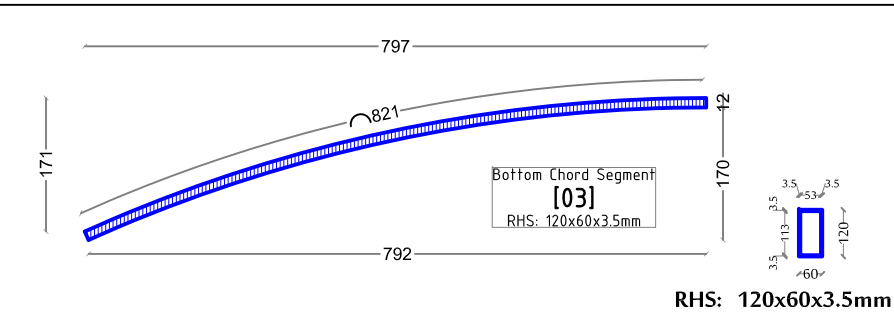
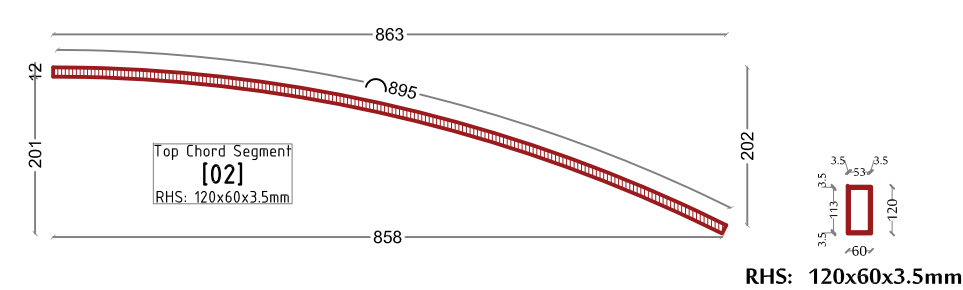
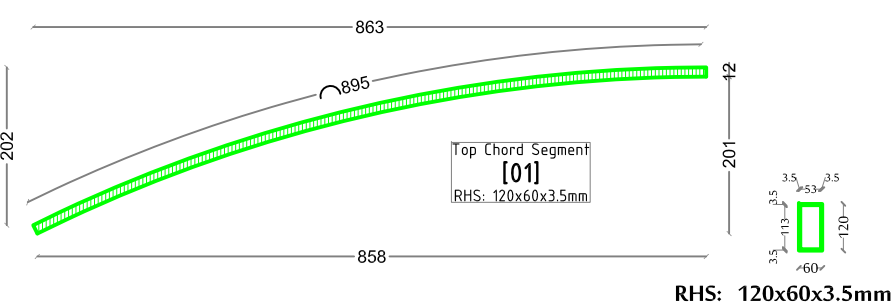
**SCALE:**

**DATE:** 01-2025

The contractor shall submit a well detailed shop-drawn for all steel works



Typical Truss [B-B] Details  
Same Connection Details shall be applied to Typical Truss A-A & C-C



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LEGEND &SAMBOLS:

Section Number

Shade Walls

Graph Floor Level

Room Concrete Level

Level to Floor

Window Number

Door Number

Randomness Concrete

Shade Walls

Plan Concrete

Concrete Block

Walls

Room Concrete Level

Graph Floor Level

Sea Level

REVISION HISTORY :

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Website: www.arabengineers-Pal.com

SHEET NO.:

SHEET TITLE:

S07

External Works  
Yard Shade  
Main Trusses Details

DESIGNER:

AE -Structural Team

CHECKED BY:

AE -Structural Team

DRAWN BY:

AE -Structural Team

SCALE:

DATE:

01-2025