المواجهة الأمامية للأدارية (1)

المواجهة الجانبية للأدارية (2)

المواجهة الخلفية للأدارية (3)
الواجهة الأمامية للمختبرات (1)

الواجهة الجانبية للمختبرات (2)

الواجهة الخلفية للمختبرات (3)
Steel plates of 2 mm thick designed by CNC machines

Steel plates of 2 mm thick designed by CNC machines

Steel Sliding Door

Steel plates designed by CNC machines

Steel plates designed by CNC machines
Steel hollow Rectangle section of 2 inch and 3 mm thick.

Round hollow section steel of 1.5 inch and 2 mm thick.

Steel plates of 2 mm thick designed by CNC machines.

Details of Window and Steel Burglar job

Architect Engineer job Title

Drawing Title

CHECKED

DATE

AR/28

FATMA J. EDAAN

secondary school

18 classrooms
Steel hollow square section of 1.5 inch and 3 mm thick

Steel hollow square section of 3 inch and 3 mm thick

Steel angle section of 1 inch and 3 mm thick

Steel plates of 2 mm thick designed by CNC machines

1 m Height For The Walls Openings of the First Floor

Steel Burglar Bars for The Internal Corridors
columns of steel square tube
3x3 inch and 3mm thick

sub-beam using rectangular steel section of 3 x 2 inch and 3 mm thick each 1m

0.8mm thick corrugated plates

sub-beam using rectangular steel section of 3 x 2 inch and 3 mm thick each 1m

columns of steel square tube
3x3 inch and 3mm thick

Detail B-B

beams of roof structure from steel square tube
3x3 inch and 3mm thick

columns of steel square tube
3x3 inch and 3mm thick

0.8mm thick corrugated plates

Detail A-A

Base plate of
(250x250x6mm)

(4) Bolts of Ø18mm

Detail B-B

Detail A-A
**Detail B**

- Casting column footing (60x60x60cm)
- (4) anchor bolts of Ø16mm

**Detail A**

- Columns of steel square tube 100x100x3mm
- Sub beam of steel square tube 100x100x3mm
- Steel drain trench using steel plate of 2mm
- K-span sunshade, using plate of 2mm thick

**Technical Specifications**

- K-span sunshade
- Columns of steel square tube 100x100x3mm
- Sub beam of steel square tube 100x100x3mm
- Steel drain trench using steel plate of 2mm
- K-span sunshade, using plate of 2mm thick

**Dimensions**

- 300
- 60
- 20

**Date and Location**

- FATMA J. EDAAN
- Secondary school
- 18 classrooms
Steel Ladder Details

Square Hollow Section Pipe 2" and 2 mm thick

Square Hollow Section Pipe 3" and 3 mm thick
Steel Sliding Door

Steel plates designed by CNC machines

Stone panel 20cm thick (Coplan)
Stone panel 5cm thick (Coplan)
Stone panel 30x30cm
Plastic Painting
Granite Tile

Front view

Detail A-A
EXPANSION JOINT EVERY 12.0m MAX.

SECTION 1-1
- Compacted Sub Base 95%
- Foundation
- Bricks
- Hollow block (20x20x40) cm
- Concrete for the Columns
  - Column (30x40) cm
  - Ø12 mm
  - Ø10 mm @ 250 mm

SECTION 2-2
- Compacted Sub Base 95%
- Foundation
- BLINDING
- Concrete for the Columns
  - Column (30x40) cm
  - Ø12 mm
  - Ø10 mm @ 250 mm
**A/C Type Detail**

### A/C Type Schedule

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<th>No. Req.</th>
<th>Tonnage</th>
<th>Capacity</th>
<th>Electrical Power kW</th>
<th>Electrical Characteristics</th>
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<td>2</td>
<td>6000</td>
<td>3</td>
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**Fan Schedule**

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<th>HP</th>
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**Installation of Exhaust Fan on Window**
WATER SUPPLY LAY-OUT IN TOILET NO.(2)

DRAINAGE LAY-OUT IN TOILET NO.(2)
Typical secondary school 18 classrooms

Site plan
Septic tank

- Walls of 36cm width with bricks
- Foundation with 21 Mpa Concrete
- Manhole (60 x 60 cm)
- Ø12mm@300mm Top&Bot.
Manholes of 40 x 40 cm

Manholes of 60 x 60 cm

Plain concrete of 21 Mpa compressive strength and 10 cm thick sub-base layer "Class B"
Typical secondary school

18 classrooms
main and secondary electric boards