

UNOPS



SECTION S3: STRUCTURAL PLANS.

PROJECT:

SUPPLY AND INSTALL GENERATOR FOR
CHILDREN'S CENTER FOR AUTISM -ADEN

FUNDED BY:

WORLD BANK GROUP.
OCTOBER, 2019.

DRAWING LIST:-

NO	DRAWING TITLE
S3 - 01	MAIN NOTES.
S3 - 02	GENERAL LAYOUT.
S3 - 03	GOOGLE EARTH IMAGE.
S3 - 04	SITE PLAN
S3 - 05	GENERATOR SHELTER PLAN DETAILS
S3 - 06	GENERATOR SHELTER ROOF PLAN DETAILS.
S3 - 07	GENERATOR SHELTER ELEVATION DETAILS.
S3 - 08	GENERATOR SHELTER Lighting
S3 - 09	GENERATOR Exhaust System
S3 - 10	TANK BASIN
S3 - 11	FUEL TANK DETAILS

GENERAL

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, OTHER CONTRACT DRAWINGS, SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G2. DIMENSIONS ARE AS SHOWN. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.

G3. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

G4. DURING CONSTRUCTION THE STRUCTURE WILL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.

G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATED CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.

G6. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED

FOR THE FOLLOWING LOAD

- MINIMUM LIVE LOADS.
- WIND LOAD 120KM/HOUR.
- SELF WEIGHT.

G7. REFER TO STRUCTURAL DRAWINGS FOR THE DIFFERENT CONSTRUCTION MATERIALS TO BE USED IN THE PROJECT.

STRUCTURE

S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND FOLLOWING CODES

- AISC-13.
- ACI 318M -2014.
- ASCE 7-10.
- ASTM.

S2. COLD-FORMED GALVANIZED STEEL QUALITY: - THE A36FY36 MATERIAL WAS SELECTED FOR ALL COLUMNS, BEAMS, PURLINS AND BRACING AND SECTIONS. MINIMUM YEILD STRENGTH (FY=240 MPA).

S3. ESTABLISH ANY HOLES OR CUTTING WORK SHOULD BE BY USING POWER ELECTRICAL EQUIPMENT.

S4. THE STEEL IS TREATED IDEALLY SO THAT DON'T SCRATCH OF THE TOP LAYER OF STEEL

S5. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER. IF ANY.

S6. ALL BOLTS ARE A325 OR A490 HIGH STRENGTH BOLTS (HARDNESS EQUAL 8.8). AS AISC.

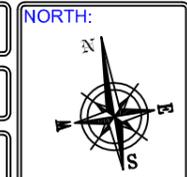
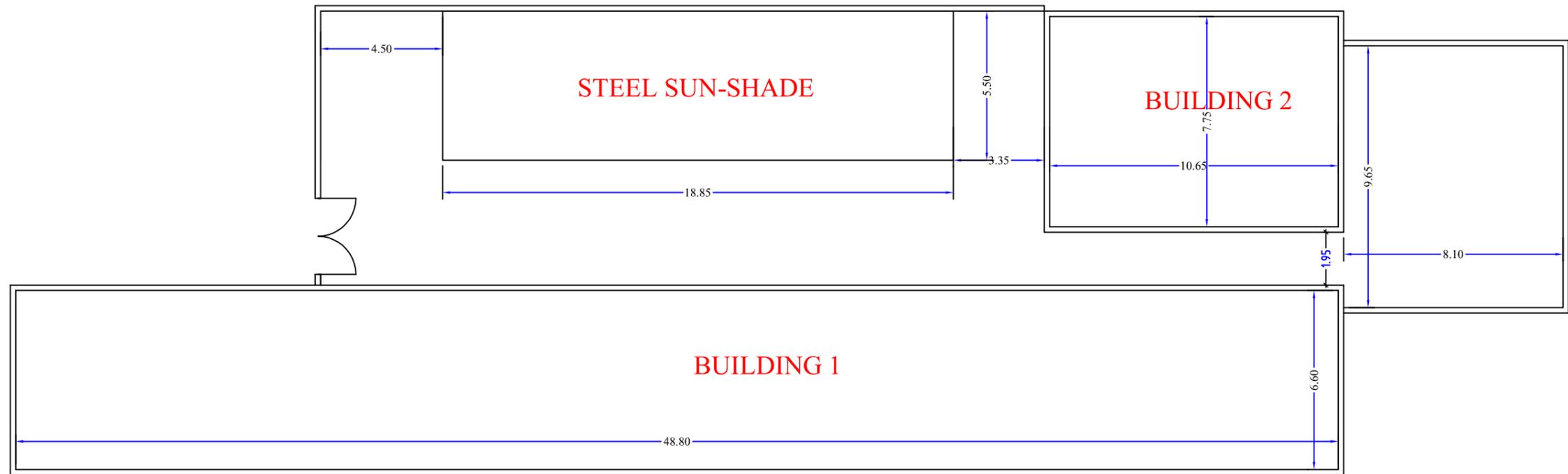
CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND AMERICAN CONCRETE CODE ACI-318M-2014 (REINFORCED CONCRETE STRUCTURES).

C2. CONCRETE QUALITY (CONCRETE WITH EPOXY GROUT): - MINIMUM CONCRETE CUBE STRENGTH (F'C=50 MPA) AFTER 28 DAYS

C3. CONCRETE WITH EPOXY GROUT MUST BE MIXED BY AN ELECTRIC DRILL.

C4. CONCRETE BASES ARE SPRAYED FOR AT LEAST 5 DAYS THREE TIMES A DAY



coordination is 12°48'11.61"N,45°02'18.16"E.



8/26/2019



Image © 2019 Maxar Technologies

Google earth



2003

Imagery Date: 8/26/2019 12°48'10.98" N 45°02'18.75" E elev 2 m eye alt 223 m

PREPARED BY:



UNOPS
OPERATIONAL EXCELLENCE
FOR RESULTS THAT MATTER.
SANA'A - YEMEN.

FUNED BY:



WORLD BANK GROUP
WORLD BANK GROUP.

PROJECT TITLE:
**CHILDREN'S CENTER FOR
AUTISM -ADEN**

PROJECT LOCATION:
ADEN - YEMEN

DRAWING TITLE:
GOOGLE EARTH IMAGE

DRAWING TYPE:
STRUCTURAL PLANS.

DESIGN-BY:
ENG: AHMED AHMED NASSER

CHECKED BY:
**ENG: MARWAN SARHAN
ENG :MUBEN ALMAS**

STATUS:
STATUS

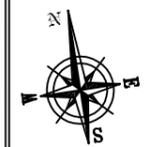
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DATE:
OCT,27TH,2019

PAPER SIZE:
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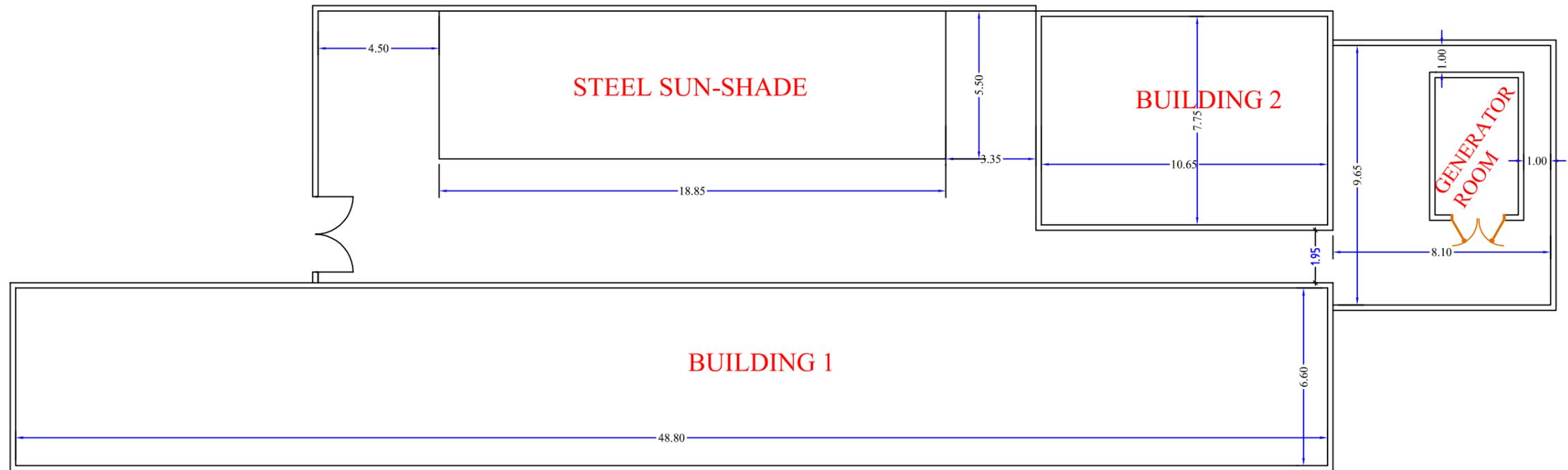
SCALE:
SCALE

NORTH:



DRAWING NO:

S2-03



SITE PLAN
SCALE:1:500

PREPARED BY:
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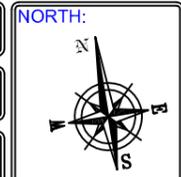
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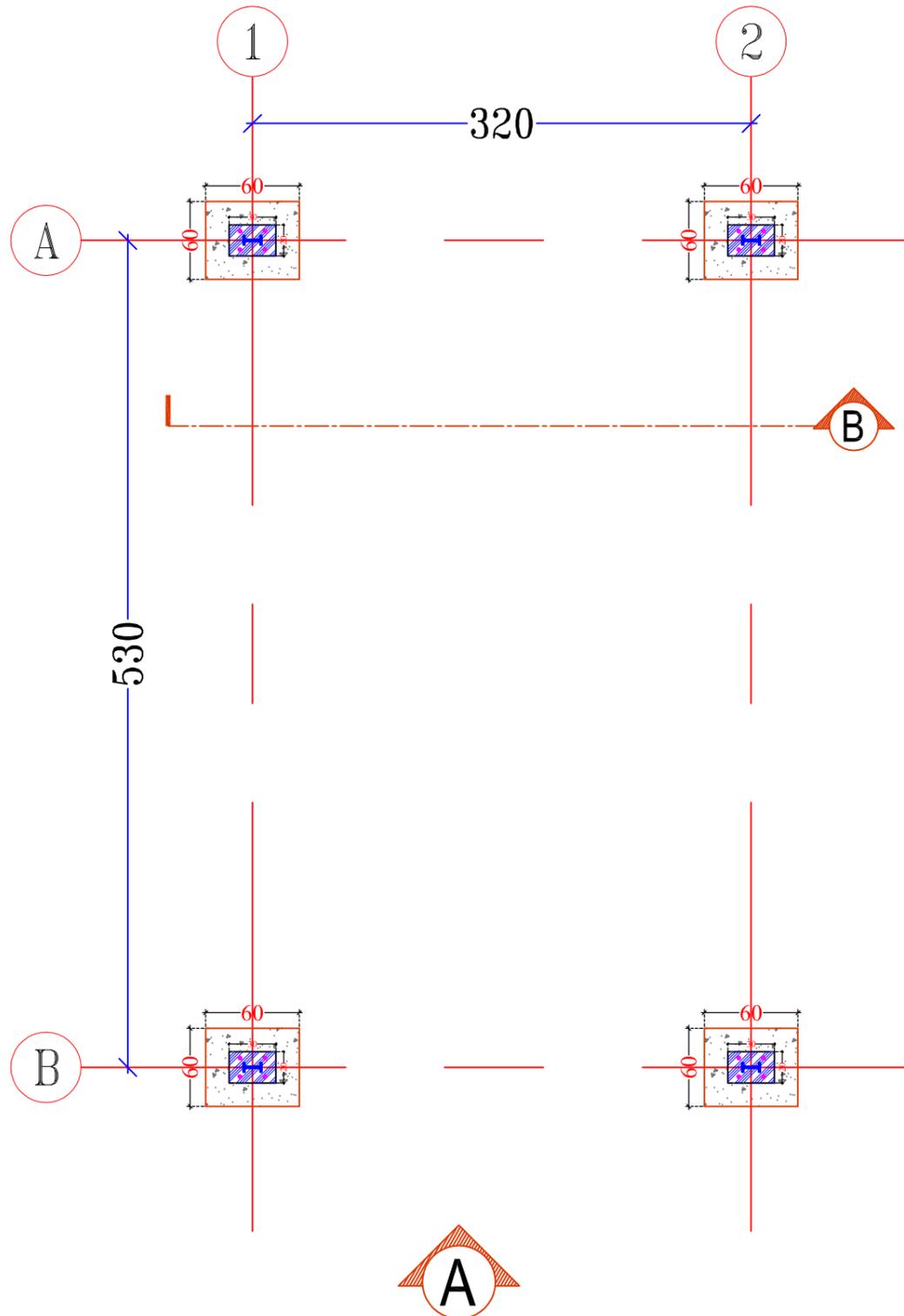
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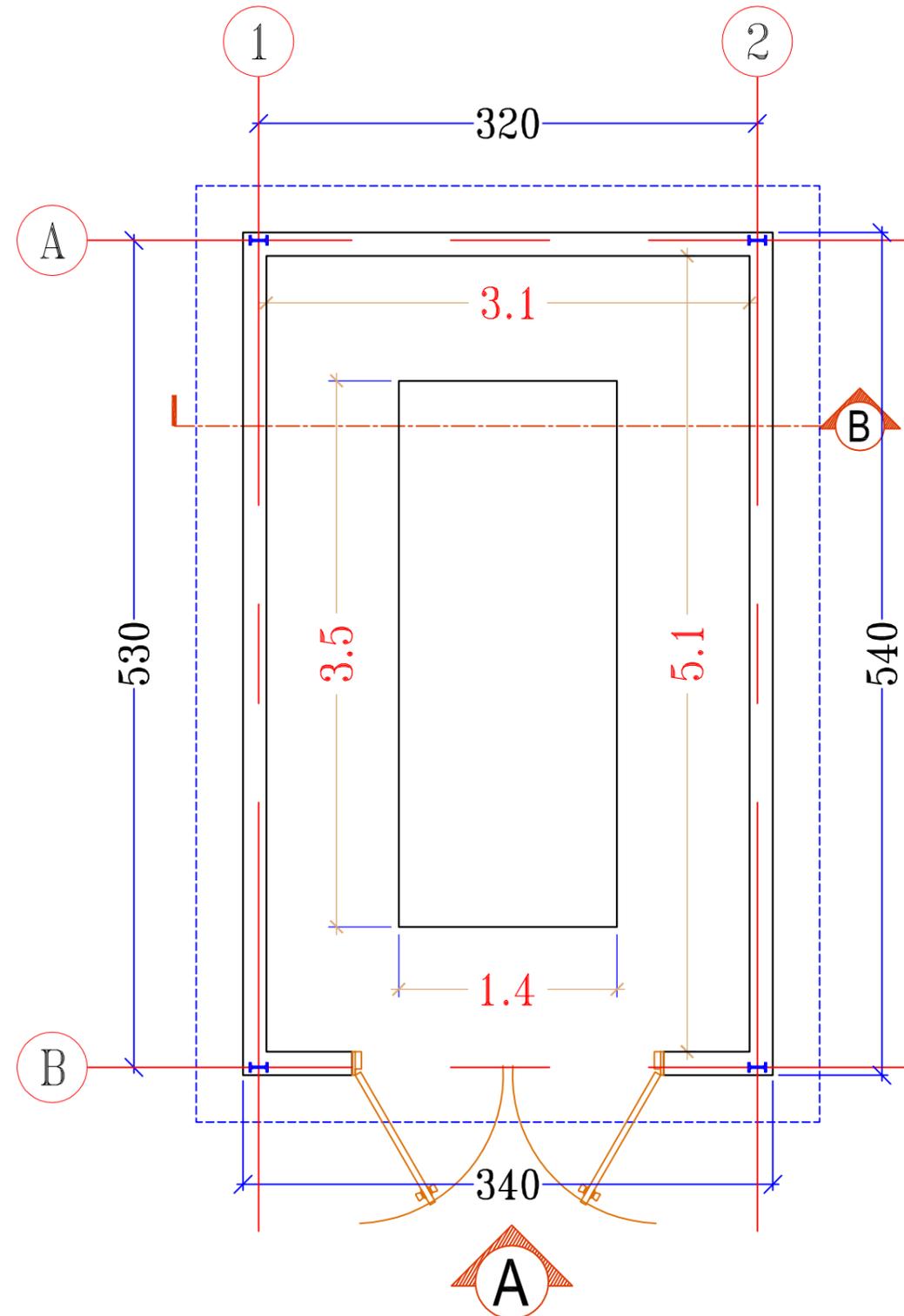
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DRAWING NO:
S3-04



FOUNDATION PLAN DETAILS.
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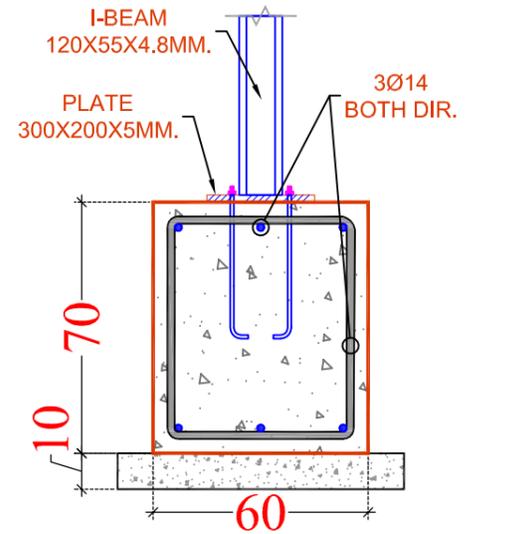


PLAN DETAILS.
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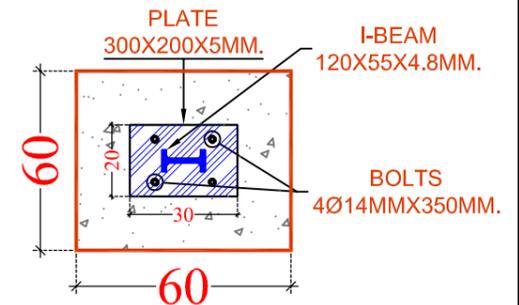
GENERATOR SHELTER PLAN DETAILS.

REMARKS:

1. ALL DIMENSIONS AND ELEVATIONS ARE IN CENTIMETERS AND METERS RESPECTIVELY, UNLESS OTHERWISE MENTIONED.
2. ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE BEFORE COMMENCEMENT OF ANY WORK.
3. ANY DISCREPANCY TO BE REPORTED TO THE UNOPS SITE ENGINEER/PROJECT MANAGER PROMPTLY BEFORE PROCEEDING.



SECTION.
SCALE: 1:20.



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DRAWING TYPE:
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DESIGN BY:
ENG: AHMED AHMED NASSER
CHECKED BY:
ENG.MARWAN SARHAN
ENG: MUEEN ALMAS

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TENDER DOCUMENTS.
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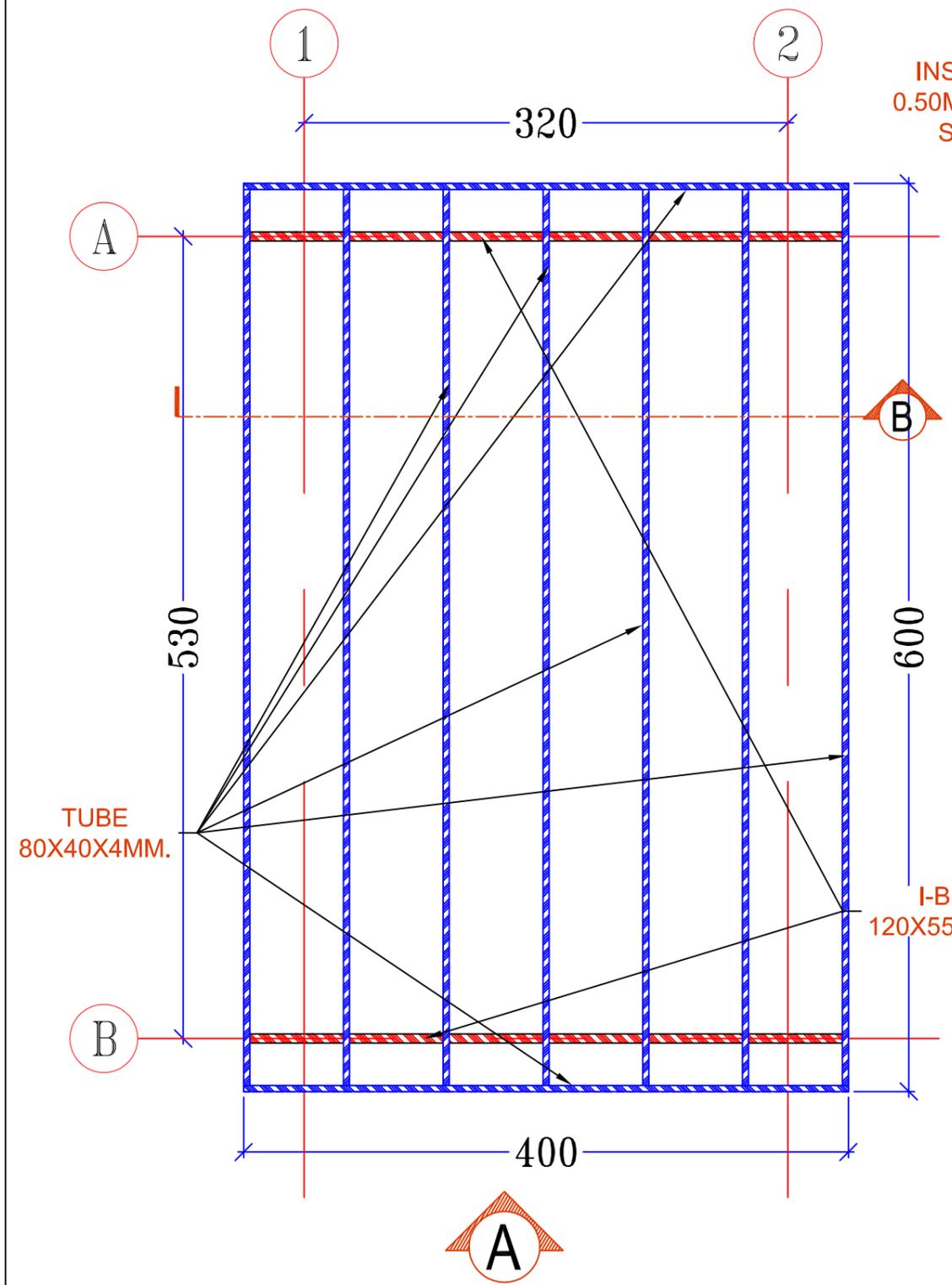
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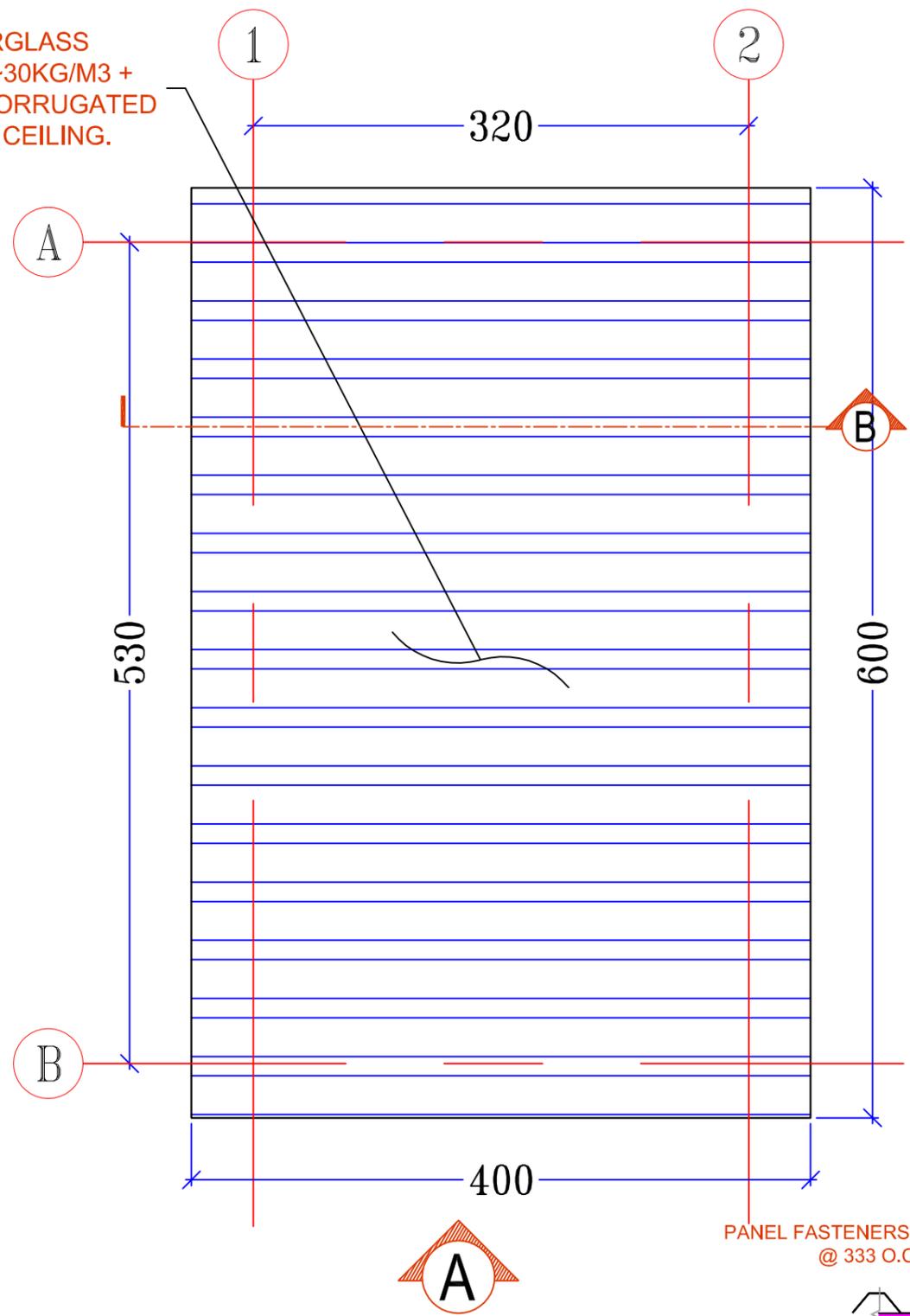
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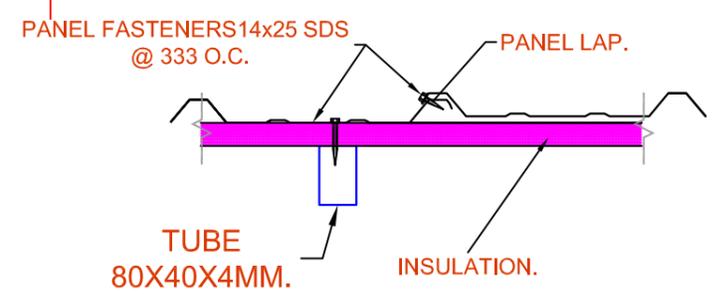
50 MM FIBERGLASS INSULATION 25~30KG/M3 + 0.50MM GAUGE CORRUGATED STEEL SHEET CEILING.



ROOF METAL FRAME PLAN DETAILS.
SCALE: 1:40.



ROOF PLAN DETAILS.
SCALE: 1:40.



ROOF PANEL DETAILS.

GENERATOR SHELTER ROOF PLAN DETAILS.

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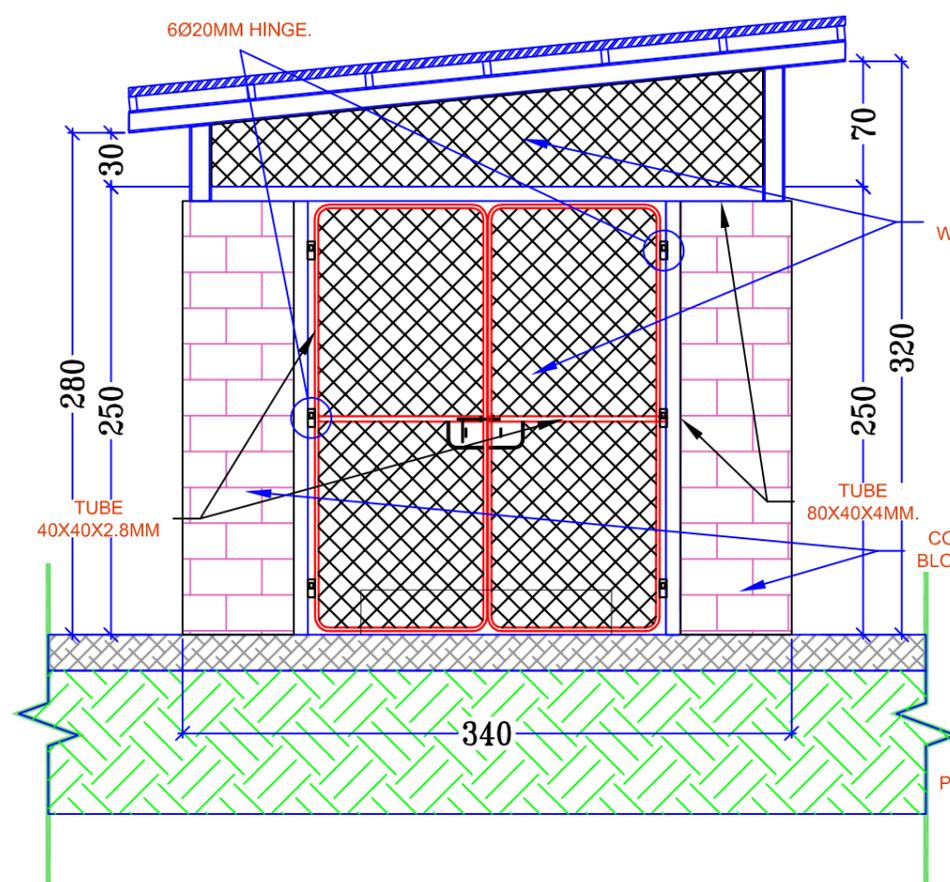
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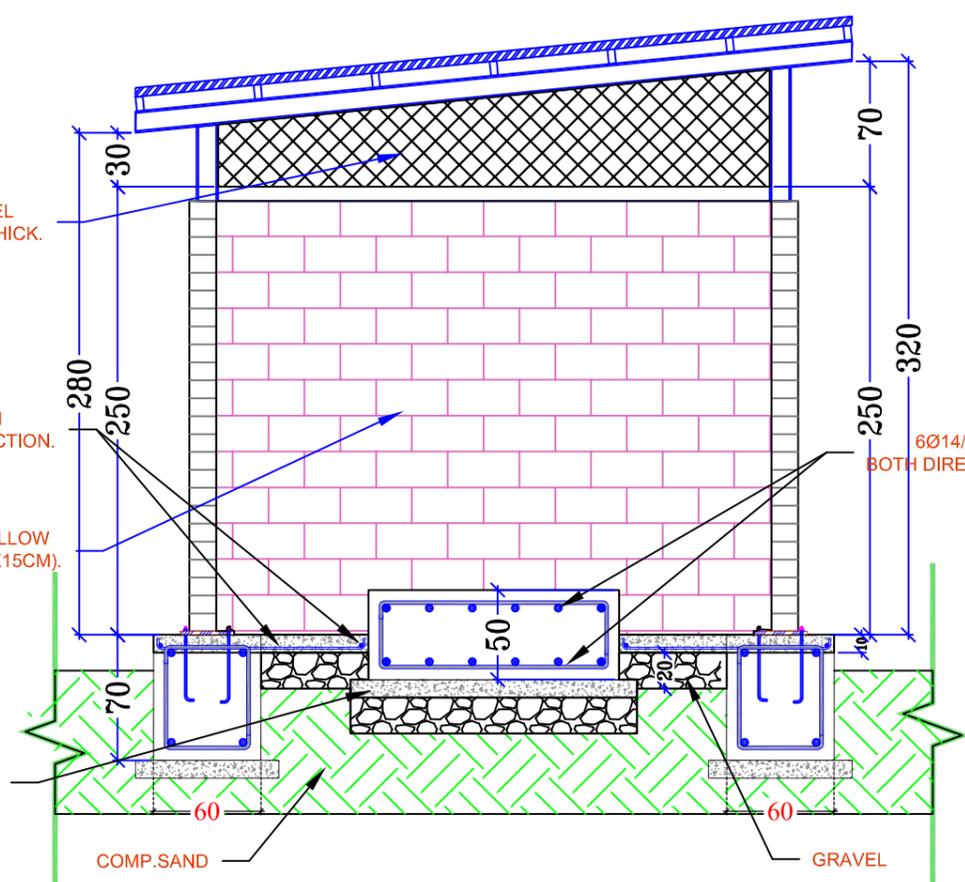
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REMARKS:

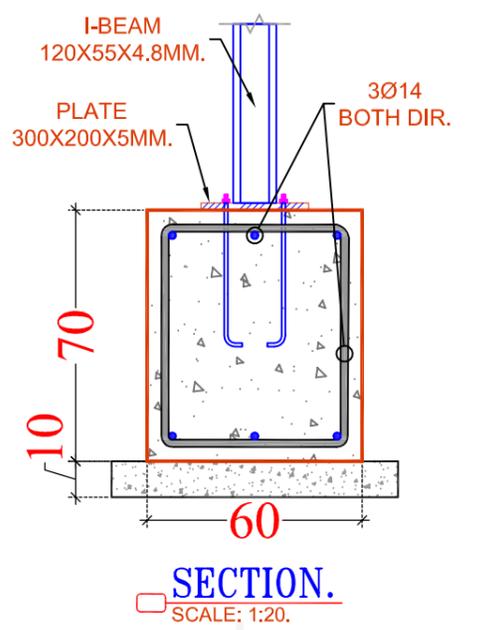
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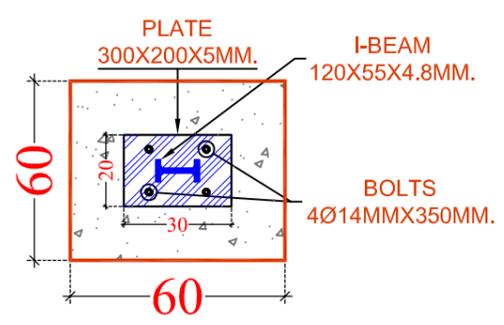
ELEVATION A PLAN DETAILS.
SCALE: 1:40.



SECTION B-B DETAILS.
SCALE: 1:40.



SECTION.
SCALE: 1:20.



PLAN DETAILS.
SCALE: 1:20.

GENERATOR SHELTER ELEVATION DETAILS.

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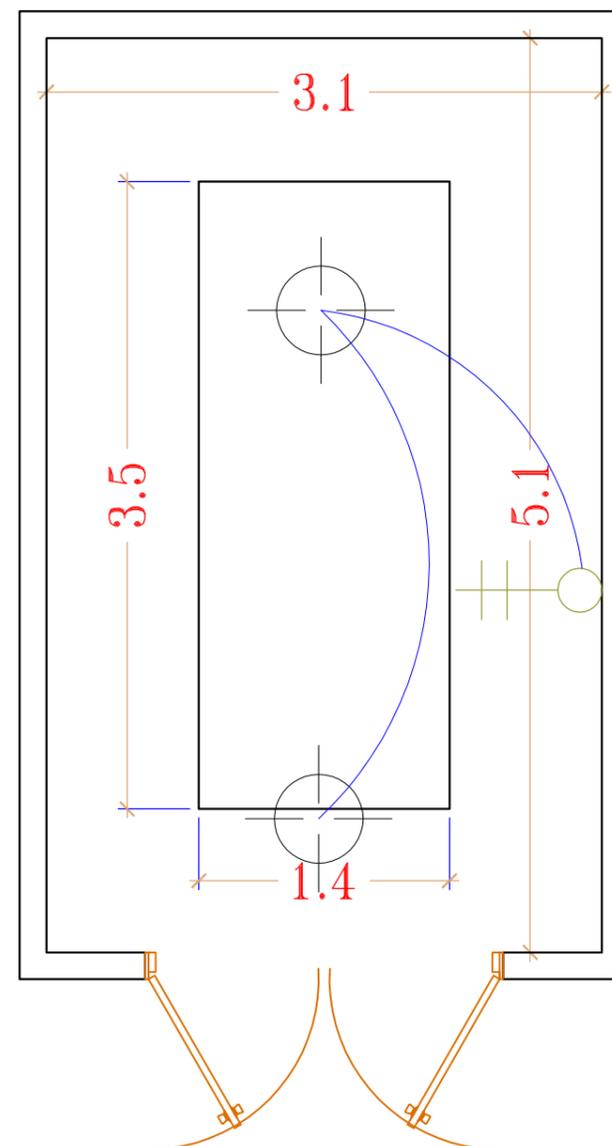
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DRAWING NO:
S3-07

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SYMBOL	DESCRIPTION
	LED LIGHTING FIXTURE
	10A 1 GANG LIGHTING SWITCH.

GENERATOR SHELTER Lighting

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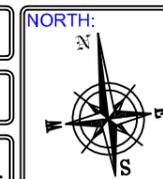
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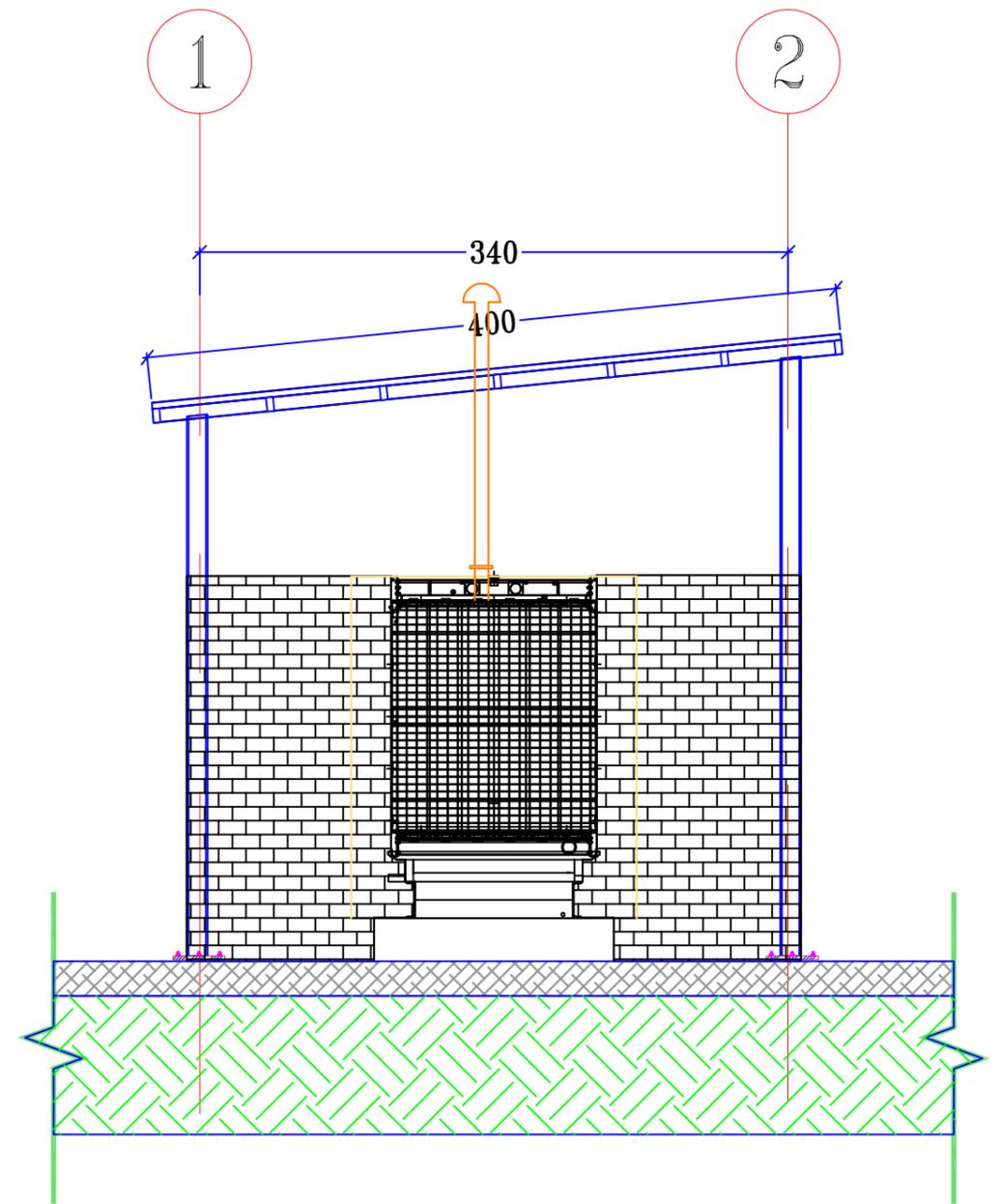
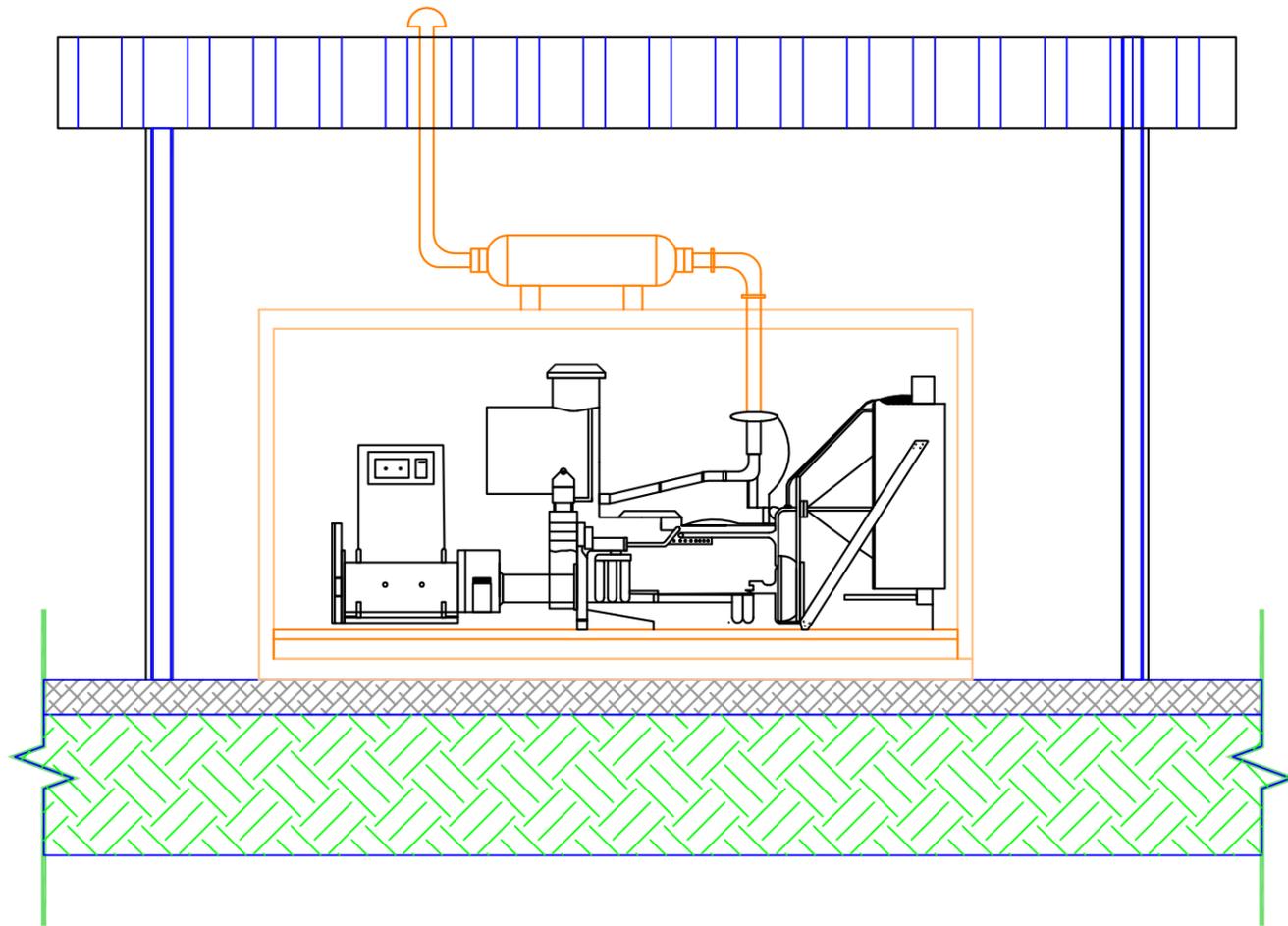
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 OCT,27TH,2019

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 A3.

SCALE:
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DRAWING NO:
S3-08



GENERATOR Exhaust System

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DRAWING TYPE:
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DESIGN BY:
 ENG: AHMED AHMED NASSER
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 ENG: MARWAN SARHAN
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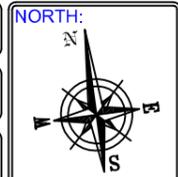
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DRAWING NO:
S3-09