

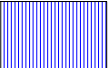
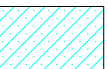


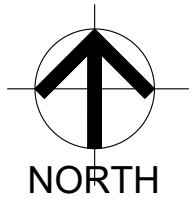


EMPLOYMENT CENTER

BASRAH

LEGEND

Symbol	Discribsion	Symbol	Discribsion
M)————	Marble		Carpet
D.G)————	Double Glass		Wood
A.C)————	Aluminum Composite Panel		Mosaic Tile Thickness (2.5 cm)
C.G)————	Ceramic Glazed Tile/Walls		Granite Tiles (60*60 cm)
G.P.P)————	Gypsum Plastering & emulsion Paint Wall		Ceramic Tiles
G.C.W)————	Granite Tiles & Gypsum Plastering With Wall Paper		False Ceiling (Acoustic Type)
W.C.A)————	1.6 Wooden Covered & Gypsum Plastering With Awrishim Irani		False Ceiling (PVC Type)
W.C.W)————	1.2 Wooden Covered & Gypsum Plastering With Wall Paper		False Ceiling (Maghribi Type)
	False Ceiling (Plastering Type)		False Ceiling (Acoustic Fallen Type)
	False Ceiling (Aluminum Composite panel)		



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 180.04 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:

APPROVED:
HOME For Engineering Consultancy

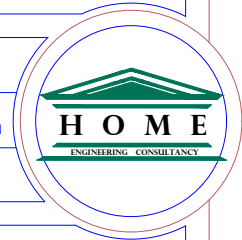
SCALE: NOT TO SCALE

DATE: 10/12/2023

SHEET NAME: MATERIAL LEGEND

SHEET NO. ARCH. 17

PROJECT NO.



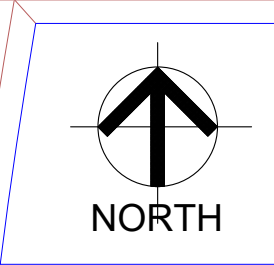
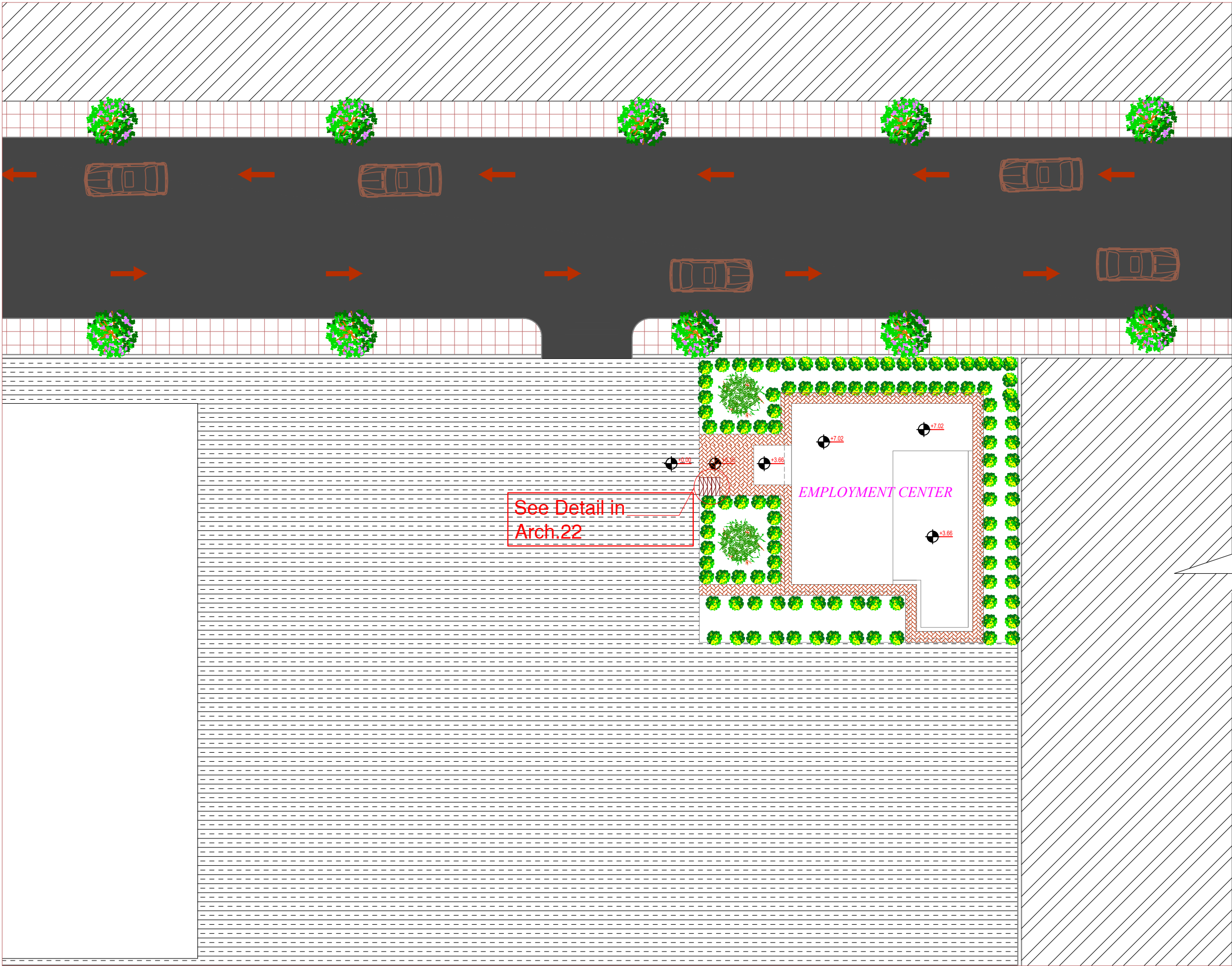
EMPLOYMENT CENTRE BUILDING PROJECT

ARCHITECTURAL DRAWINGS

Basrah - Iraq

Dec. 2023





NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 180.04 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: 1:300

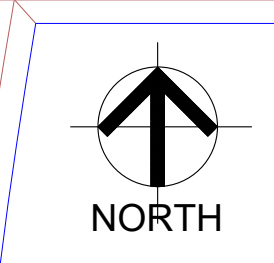
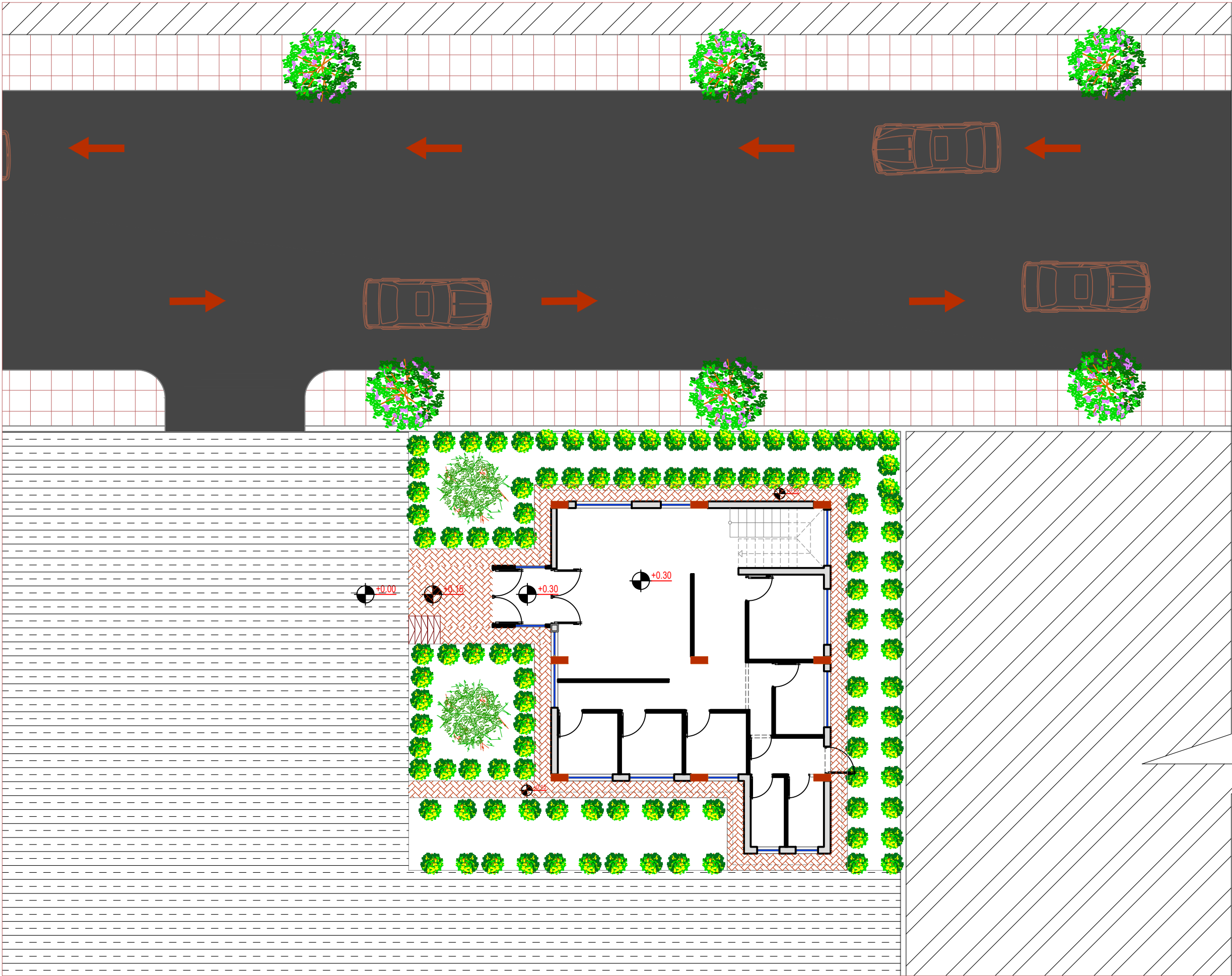
DATE: 10/12/2023

SHEET NAME: Site Plan

SHEET NO. 01

PROJECT NO.





NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 112.68 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:

APPROVED:
HOME For Engineering Consultancy

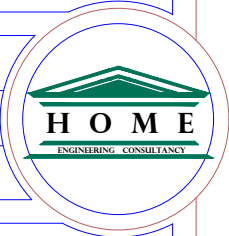
SCALE: 1:300

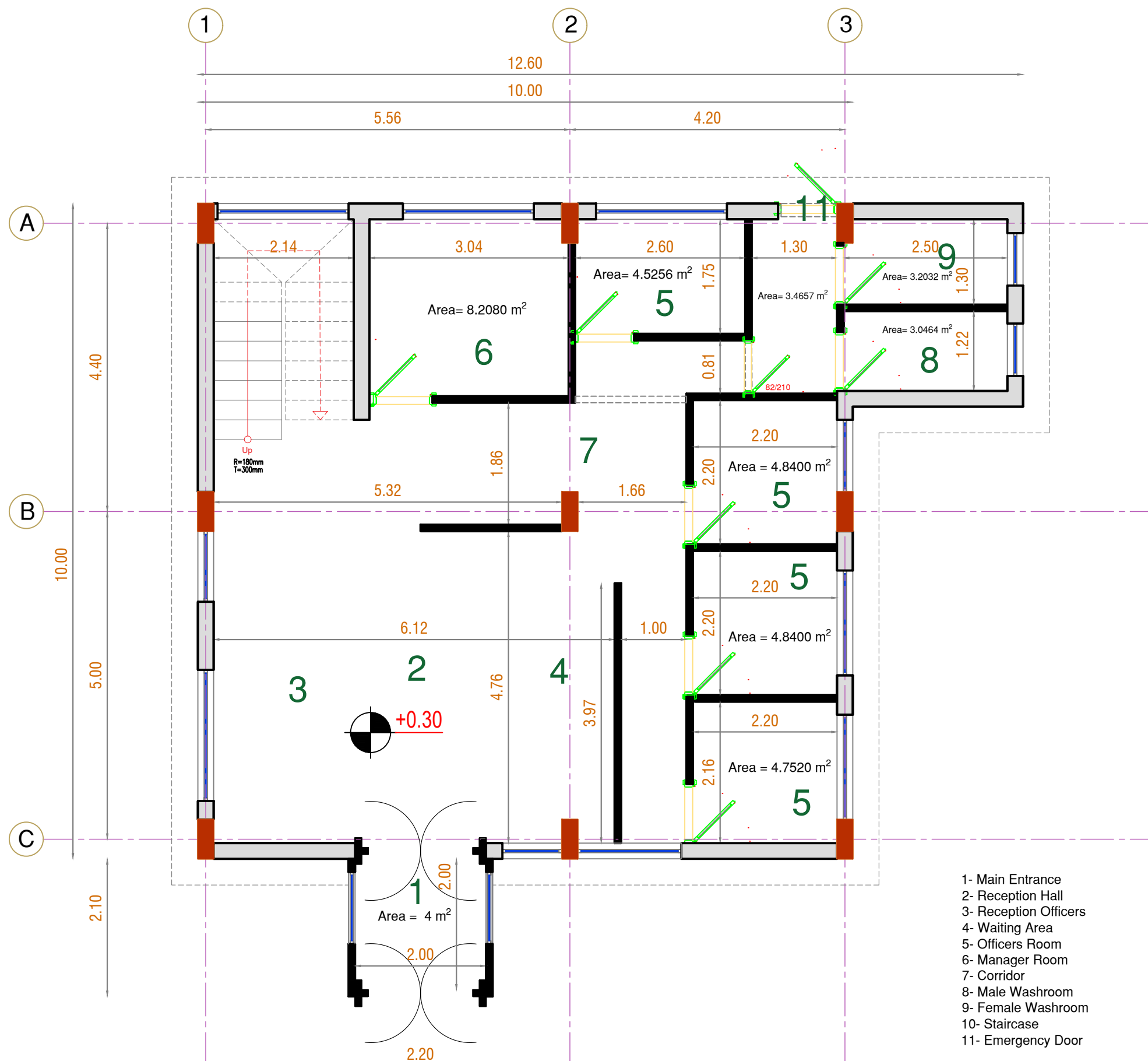
DATE: 10/12/2023

SHEET NAME: GROUND FLOOR
ON THE SITE

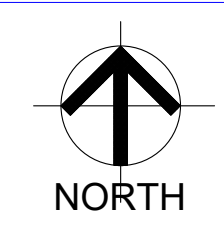
SHEET NO. 02

PROJECT NO.





- 1- Main Entrance
- 2- Reception Hall
- 3- Reception Officers
- 4- Waiting Area
- 5- Officers Room
- 6- Manager Room
- 7- Corridor
- 8- Male Washroom
- 9- Female Washroom
- 10- Staircase
- 11- Emergency Door



- NOTES:
- 1- Main Entrance
 - 2- Reception Hall
 - 3- Reception Officers
 - 4- Waiting Area
 - 5- Officers Room
 - 6- Manager Room
 - 7- Corridor
 - 8- Male Washroom
 - 9- Female Washroom
 - 10- Staircase
 - 11- Emergency Door

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 112.68 m2

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH - IRAQ

DESIGNED:
AKO M. HUSSEIN
DRAWN:
AKO M. HUSSEIN
CHECKED:



APPROVED:
HOME For Engineering Consultancy

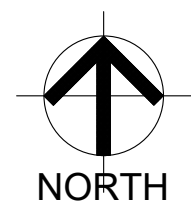
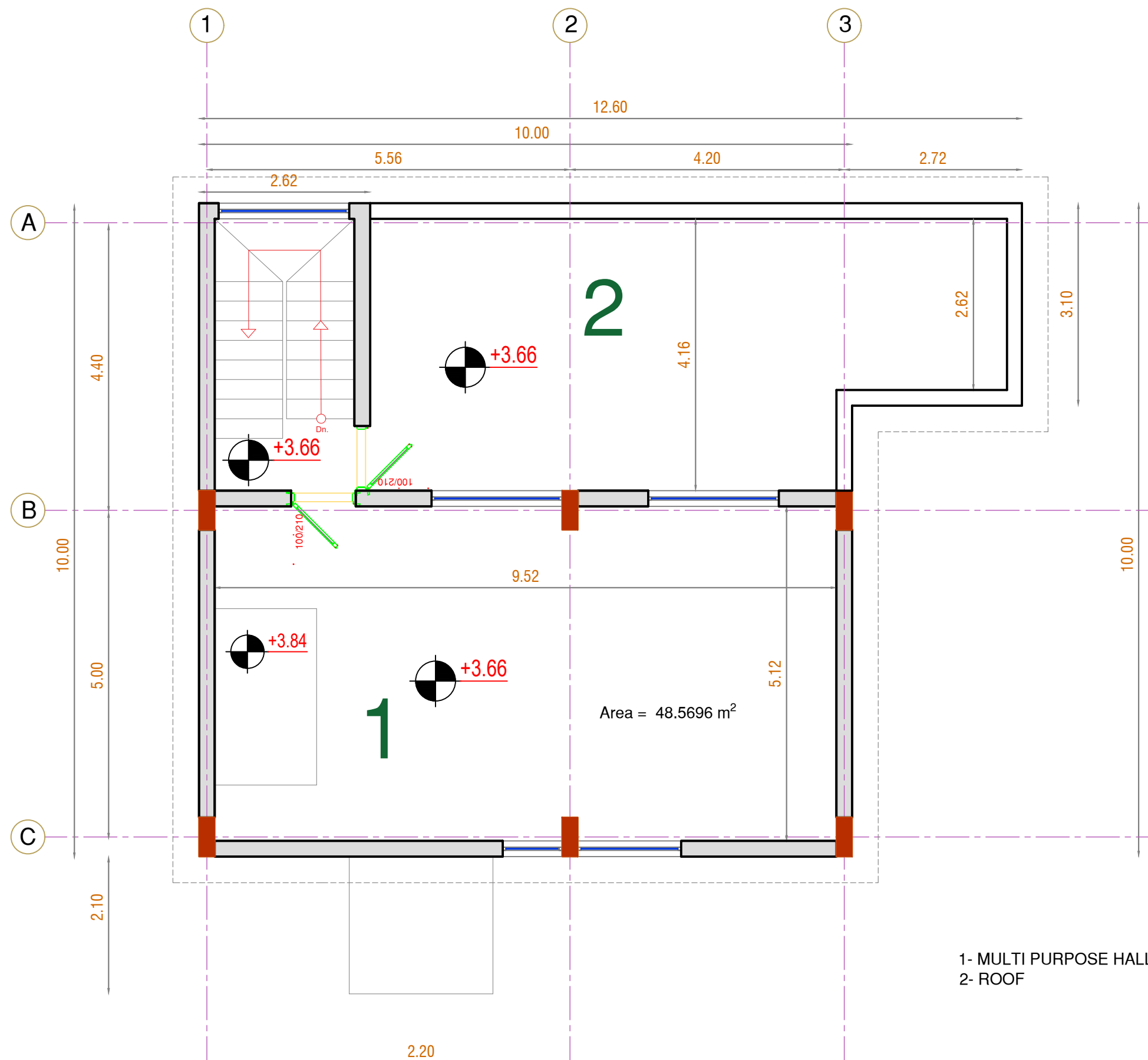
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: GROUND FLOOR
DIMENSION SHEET

SHEET NO. ARCH. 03

PROJECT NO.



NOTES:

1- MULTI PURPOSE HALL
2- ROOF

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 67.36 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

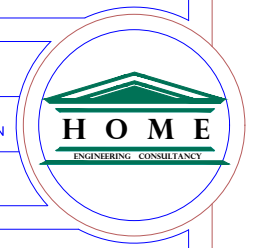
LOCATION:

BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

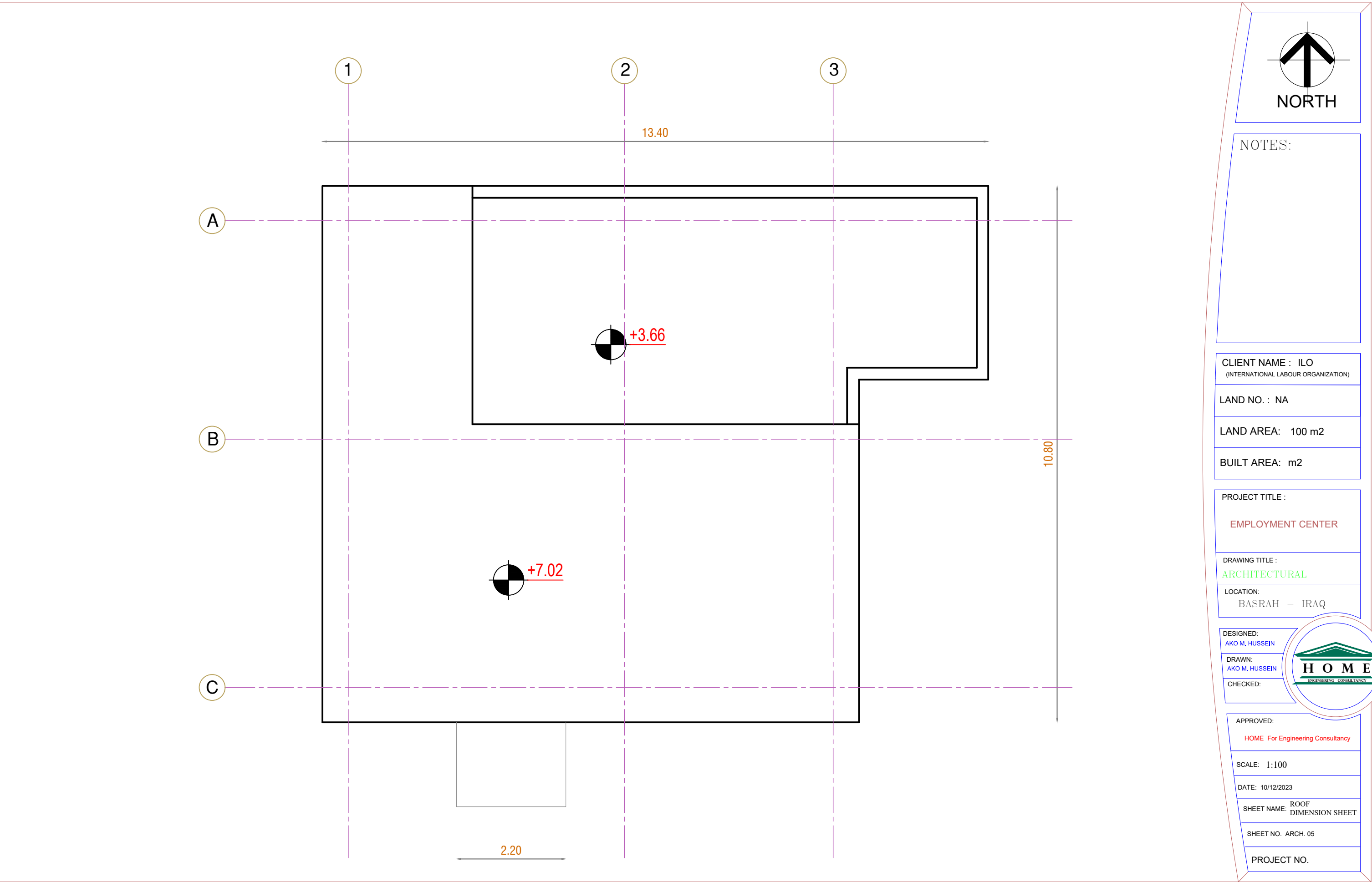
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: FIRST FLOOR
DIMENSION SHEET

SHEET NO. ARCH. 04

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

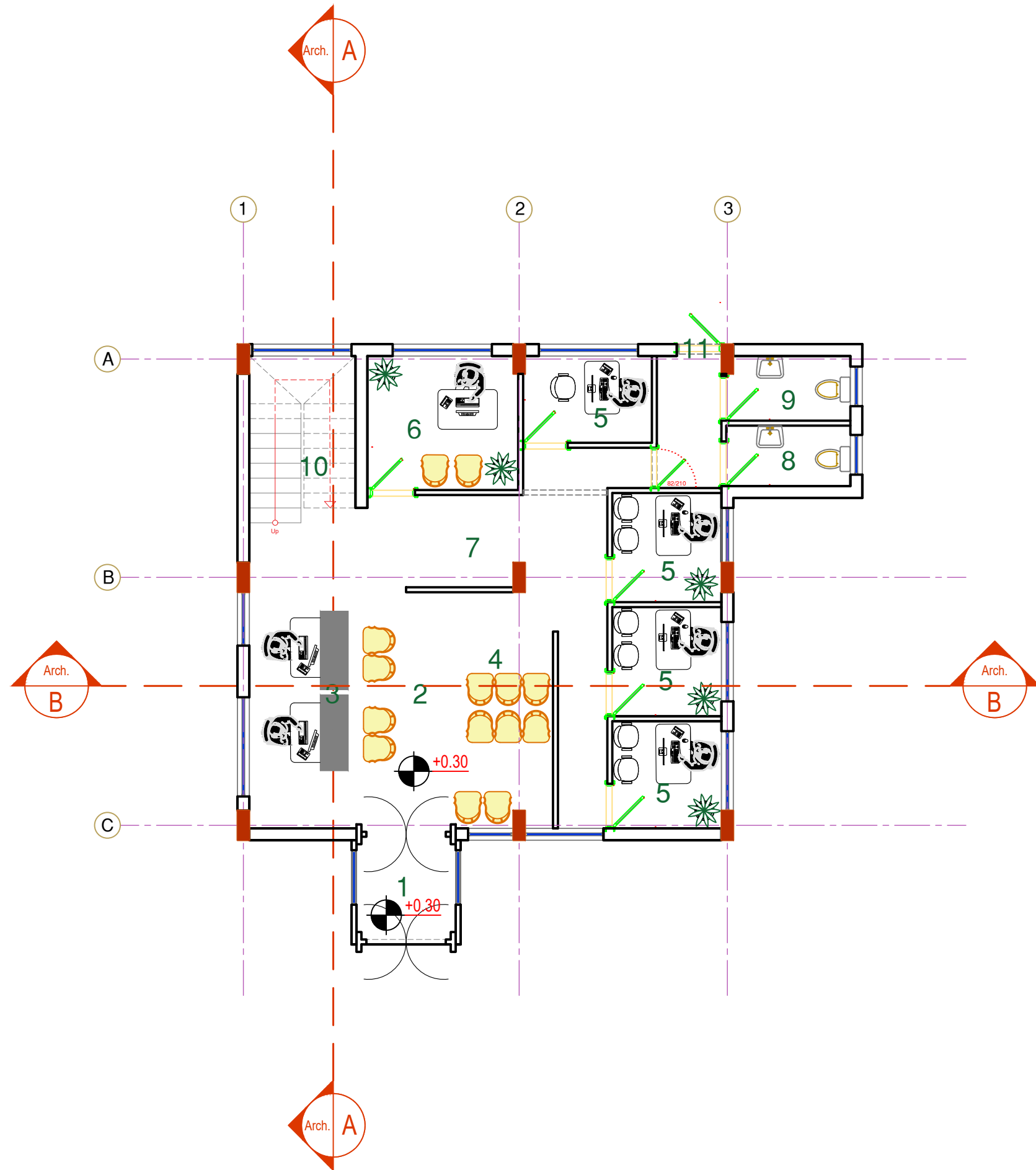
DATE: 10/12/2023

SHEET NAME: ROOF
DIMENSION SHEET

SHEET NO. ARCH. 05

PROJECT NO.





NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 112.68 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

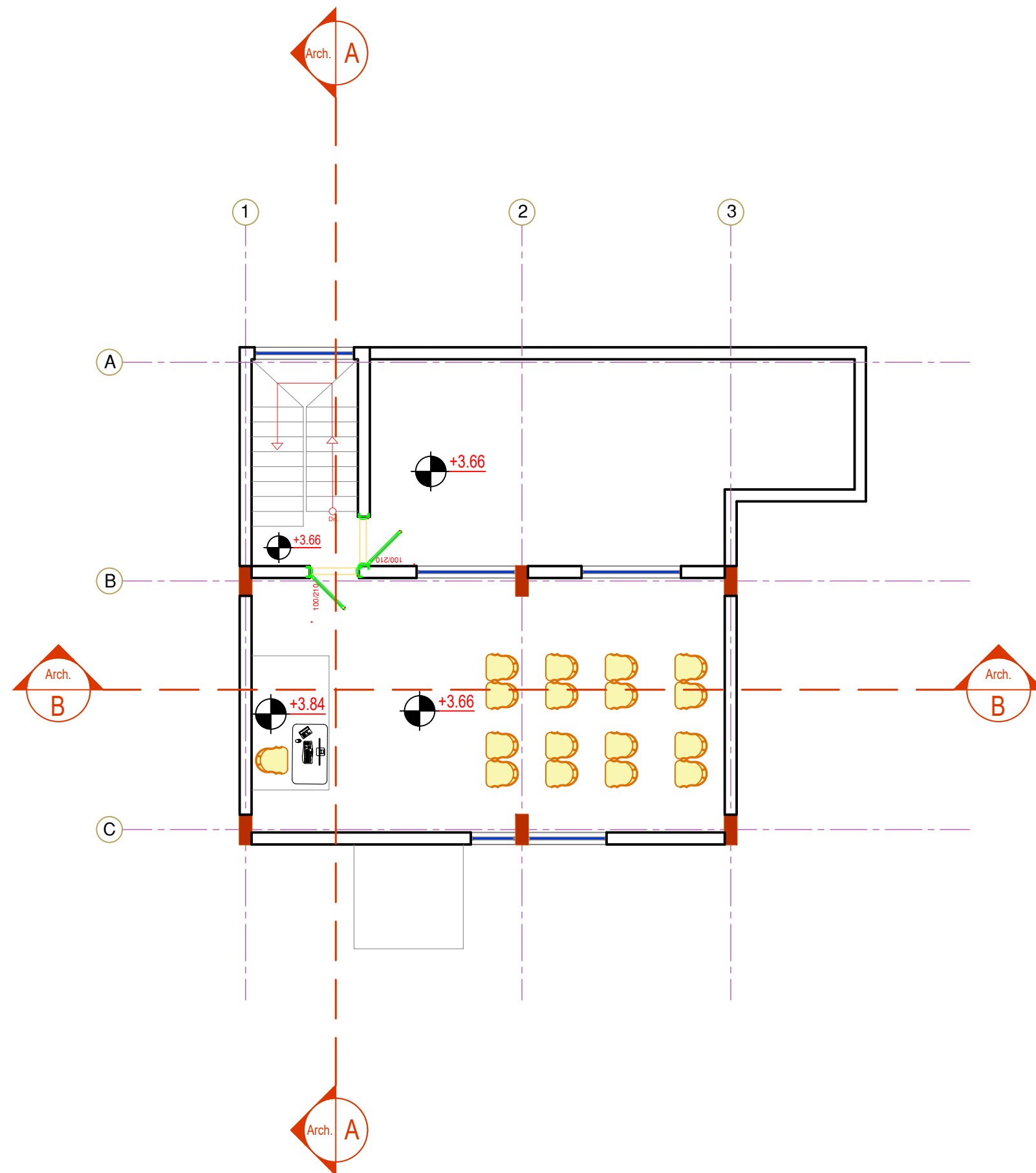
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: GROUND FLOOR FURNITURE

SHEET NO. ARCH. 06

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 67.36 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

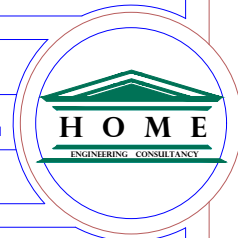
DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

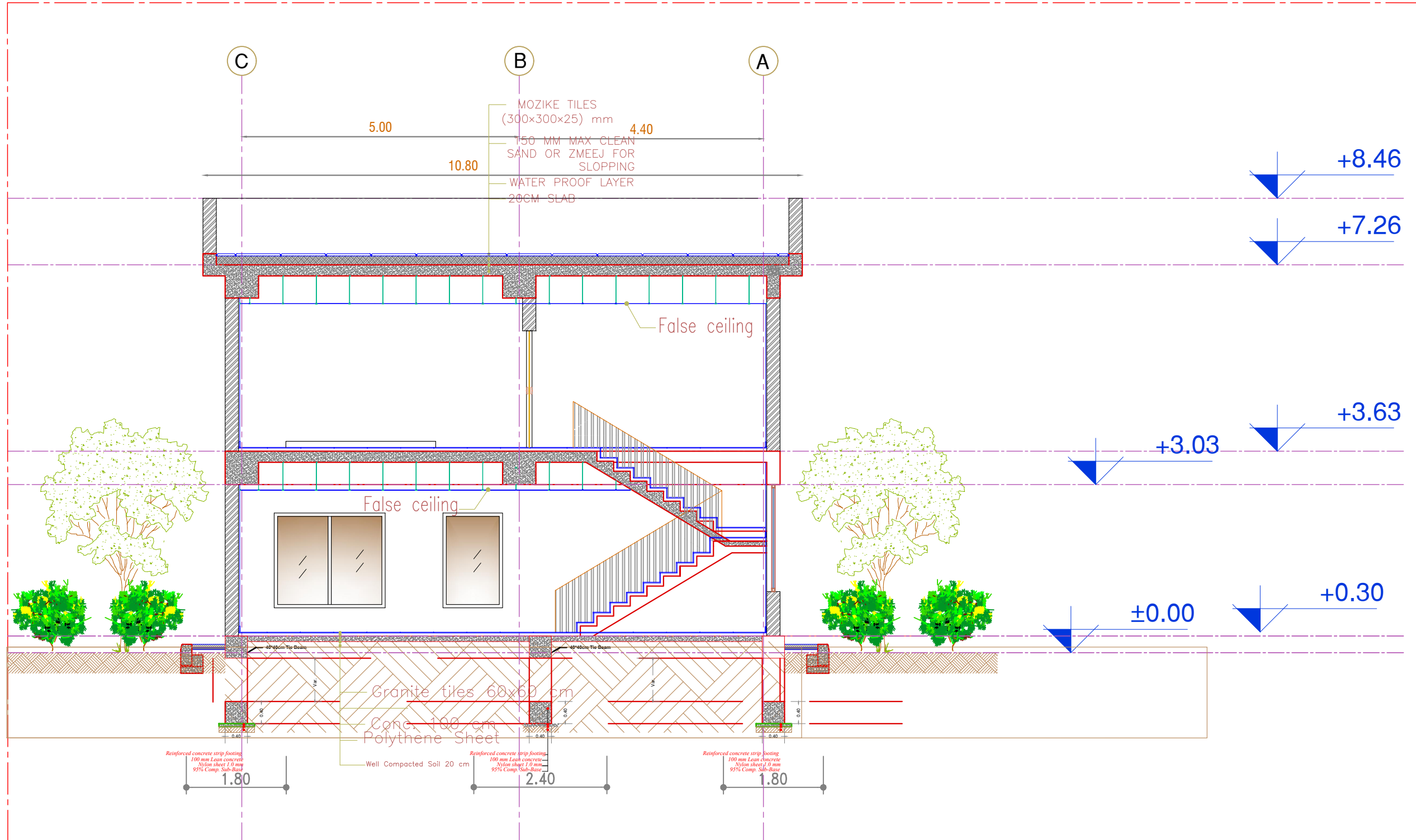
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: FIRST FLOOR
FURNITURE

SHEET NO. ARCH. 07

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 180.04 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH - IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: SECTION A-A

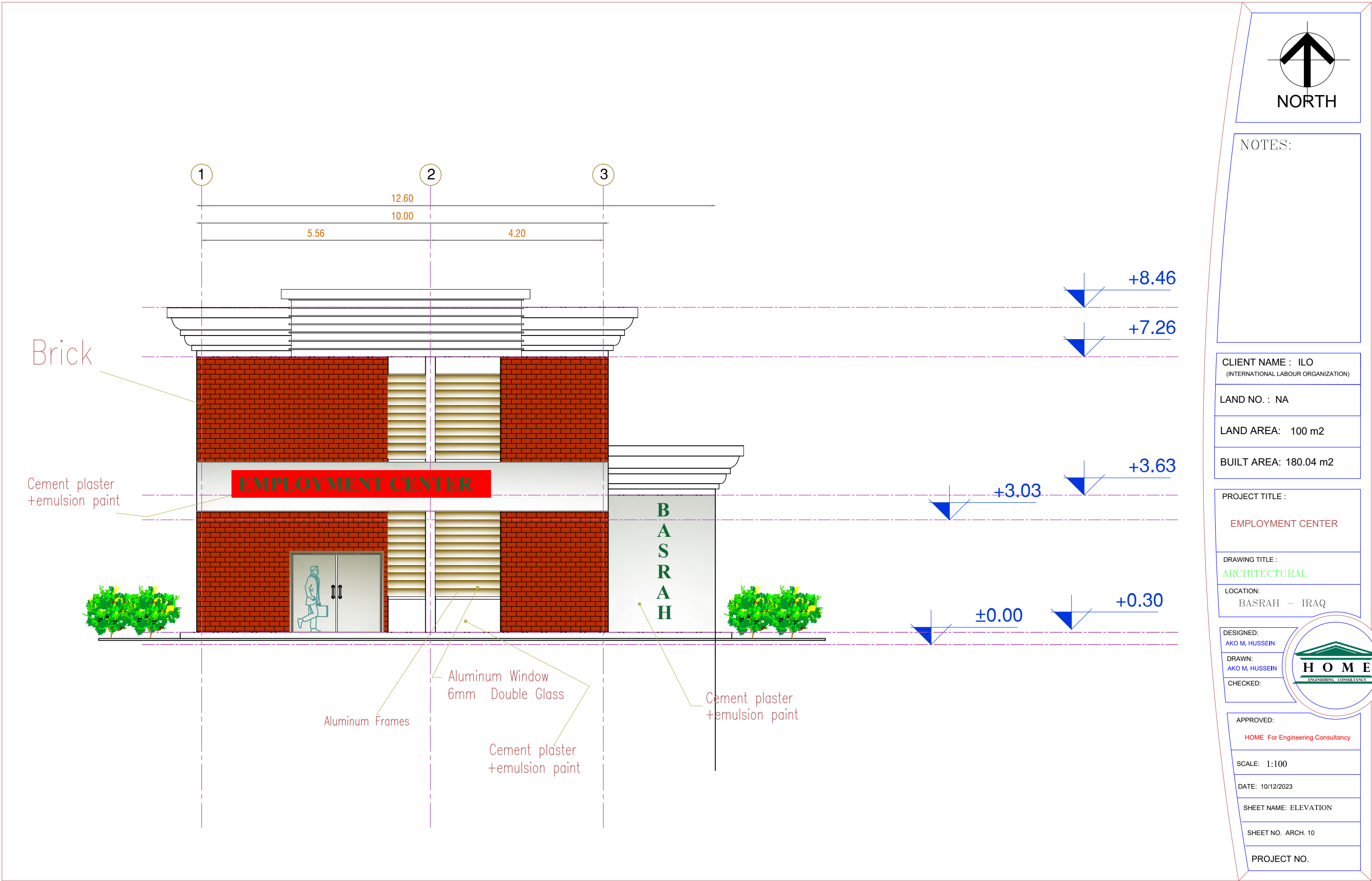
SHEET NO. ARCH. 08

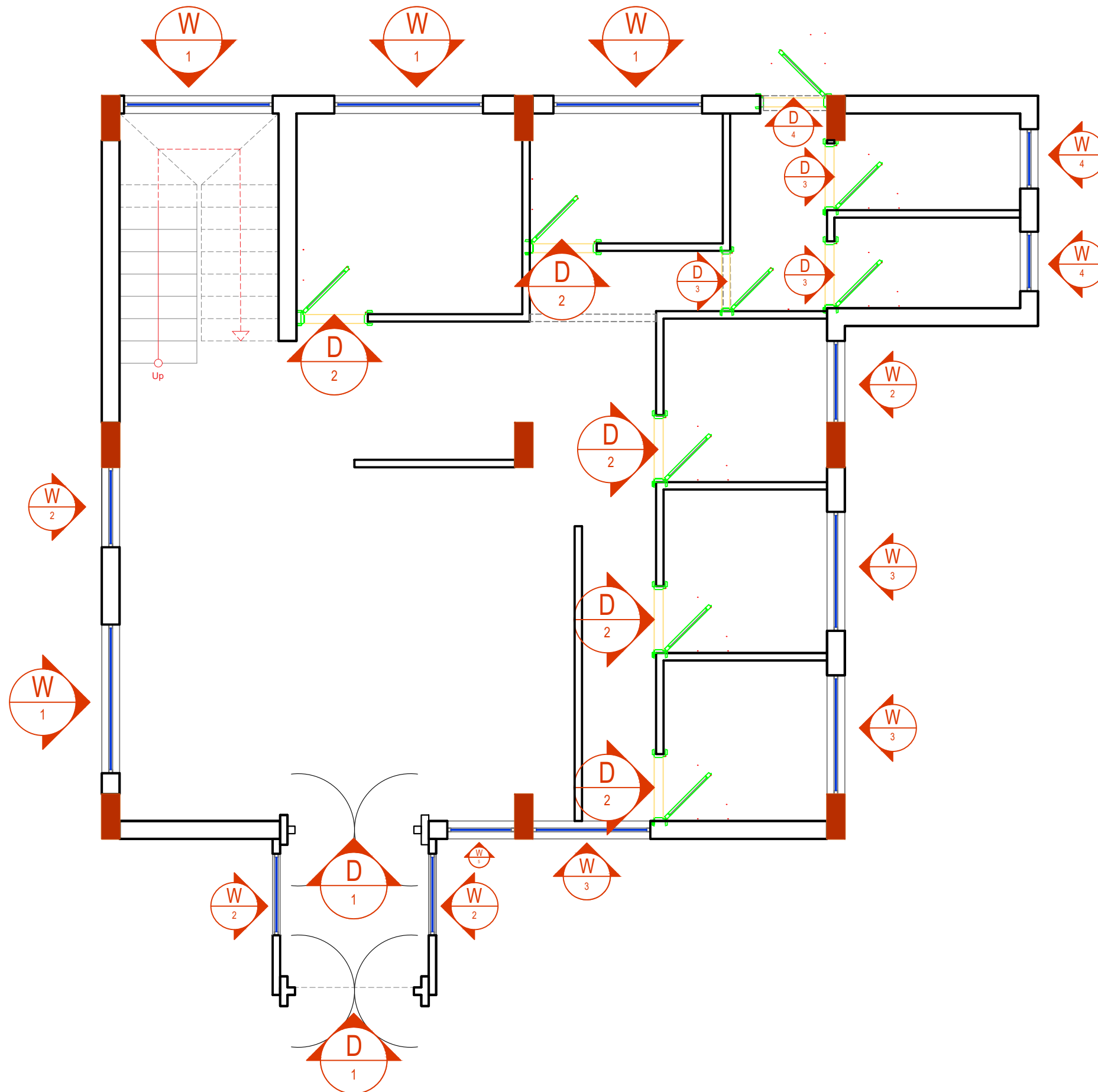
PROJECT NO.



PROJECT NO.







NOTES:

W : WINDOW
D : DOOR

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 112.68 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

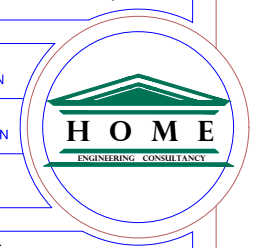
LOCATION:

BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

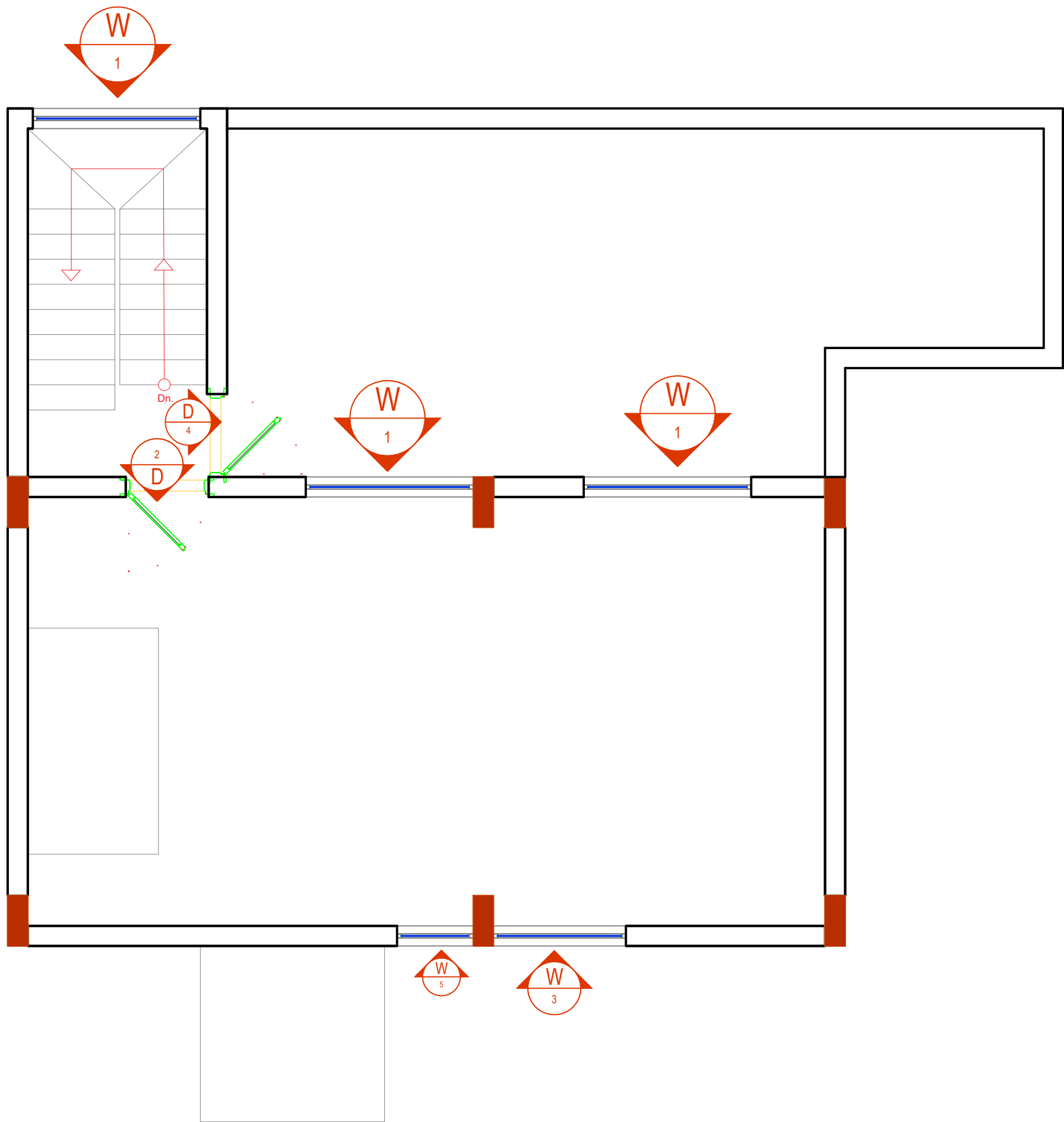
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: GROUND FLOOR
DOOR & WINDOW

SHEET NO. ARCH. 11

PROJECT NO.



NOTES:

W : WINDOW
D : DOOR

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 67.36 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

DATE: 10/12/2023

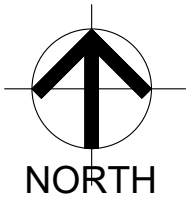
SHEET NAME: FIRST FLOOR
DOOR & WINDOW

SHEET NO. ARCH. 12

PROJECT NO.

DETAIL OF DOORS

TYPE	FRAME	DESCRIPTION	F O R M
D1	POWDER COATED ALUMINUM	– DOUBLE SWING DOOR, SECURITY GLASS – MECHANICAL LOCKS	
D2	POWDER COATED WOODEN	– POWDER COATED WOODEN LEAF	
D3	POWDER COATED P.V.C	– POWDER COATED P.V.C LEAF – Private Lock for bath room door	
D4	POWDER COATED IRON	– POWDER COATED IRON LEAF – Private Lock	



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

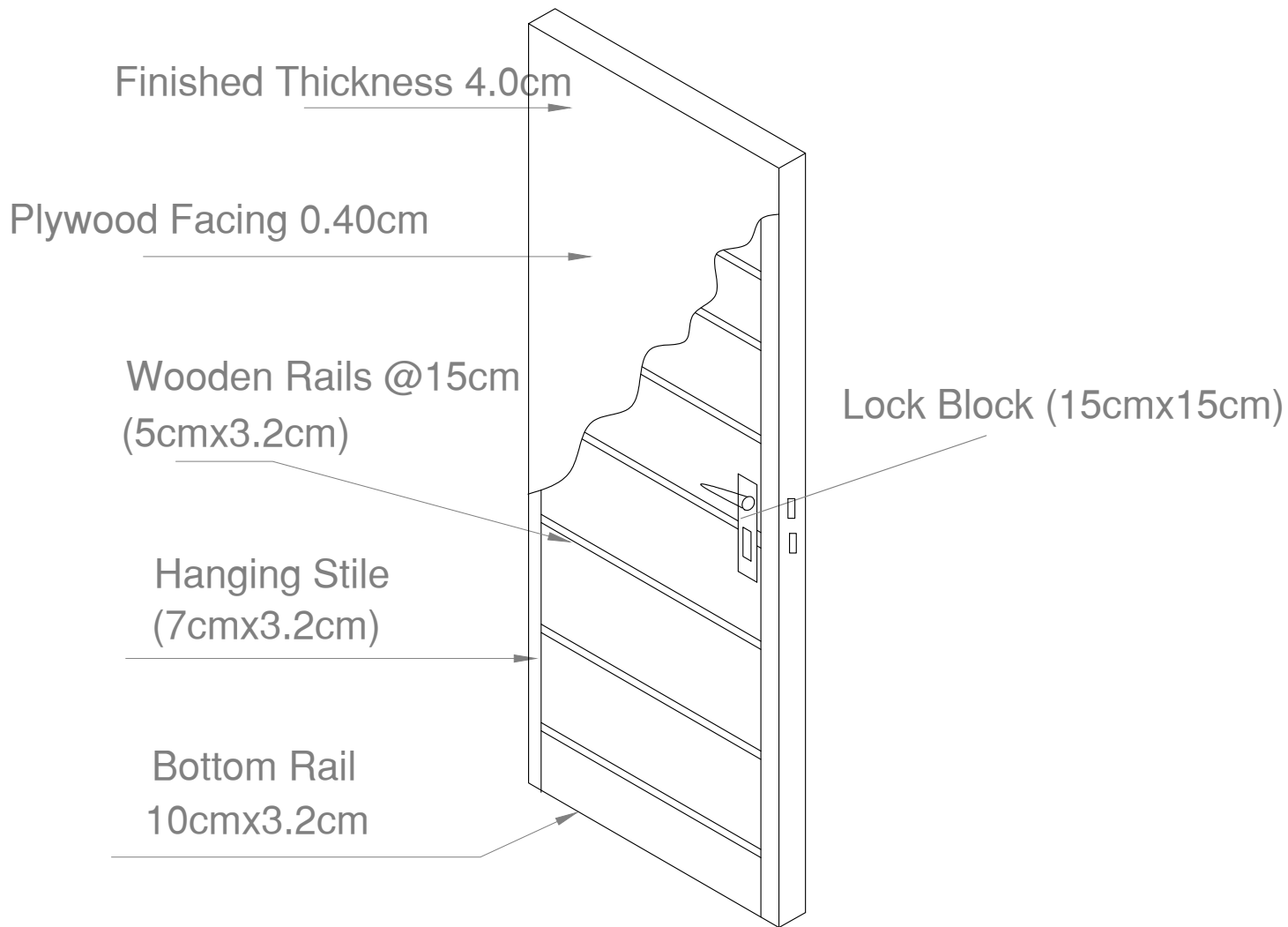
SCALE: NOT TO SCALE

DATE: 10/12/2023

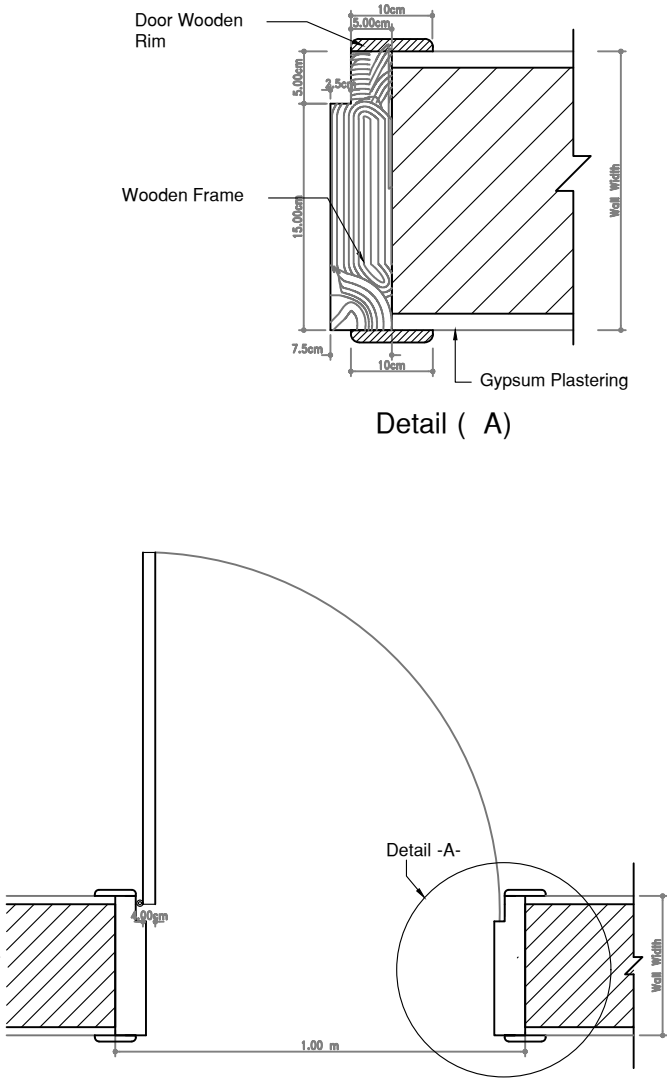
SHEET NAME: DETAIL OF DOORS

SHEET NO. ARCH. 13

PROJECT NO.



Typical Wooden Door Detail



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: NOT TO SCALE

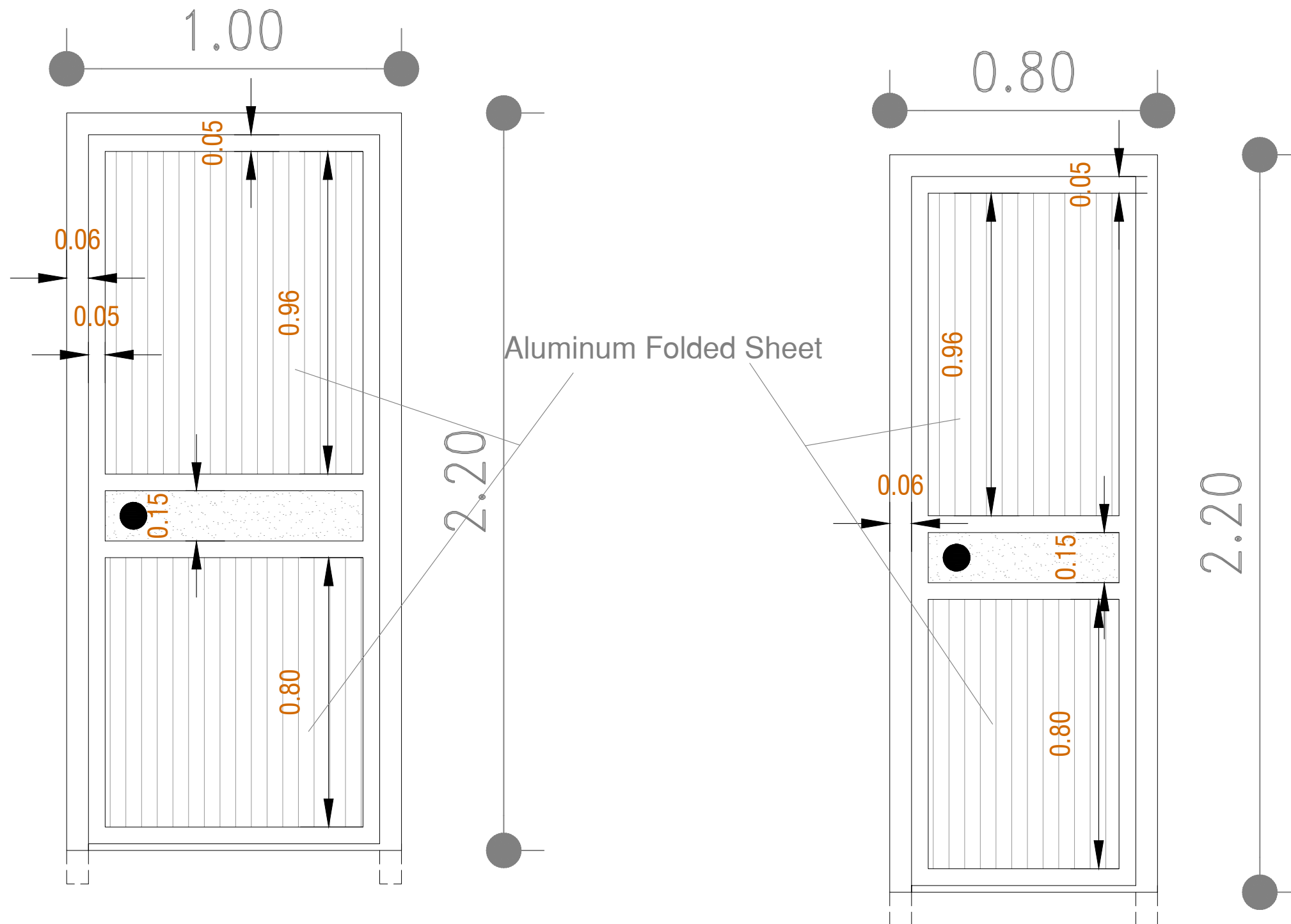
DATE: 10/12/2023

SHEET NAME: DETAIL OF DOORS

SHEET NO. ARCH. 14

PROJECT NO.





Aluminum Door Detail



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: NOT TO SCALE

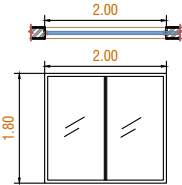
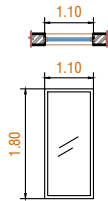
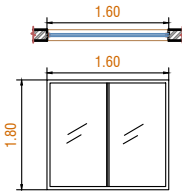
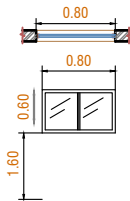
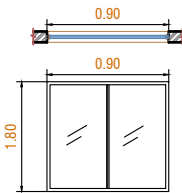
DATE: 10/12/2023

SHEET NAME: DETAIL OF DOORS

SHEET NO. ARCH. 15

PROJECT NO.

SCHEDULE OF WINDOWS

TYPE	FRAME	DESCRIPTION	F O R M
	POWDER COATED ALUMINUM	- FIXED WINDOW WITH SECURITY GLASS	
	POWDER COATED ALUMINUM	- FIXED WINDOW WITH SINGLE GLAZED	
	POWDER COATED ALUMINUM	- FIXED WINDOW WITH SINGLE GLAZED	
	POWDER COATED ALUMINUM	- FIXED WINDOW	
	POWDER COATED ALUMINUM	- FIXED WINDOW WITH SINGLE GLAZED	



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:
HOME For Engineering Consultancy

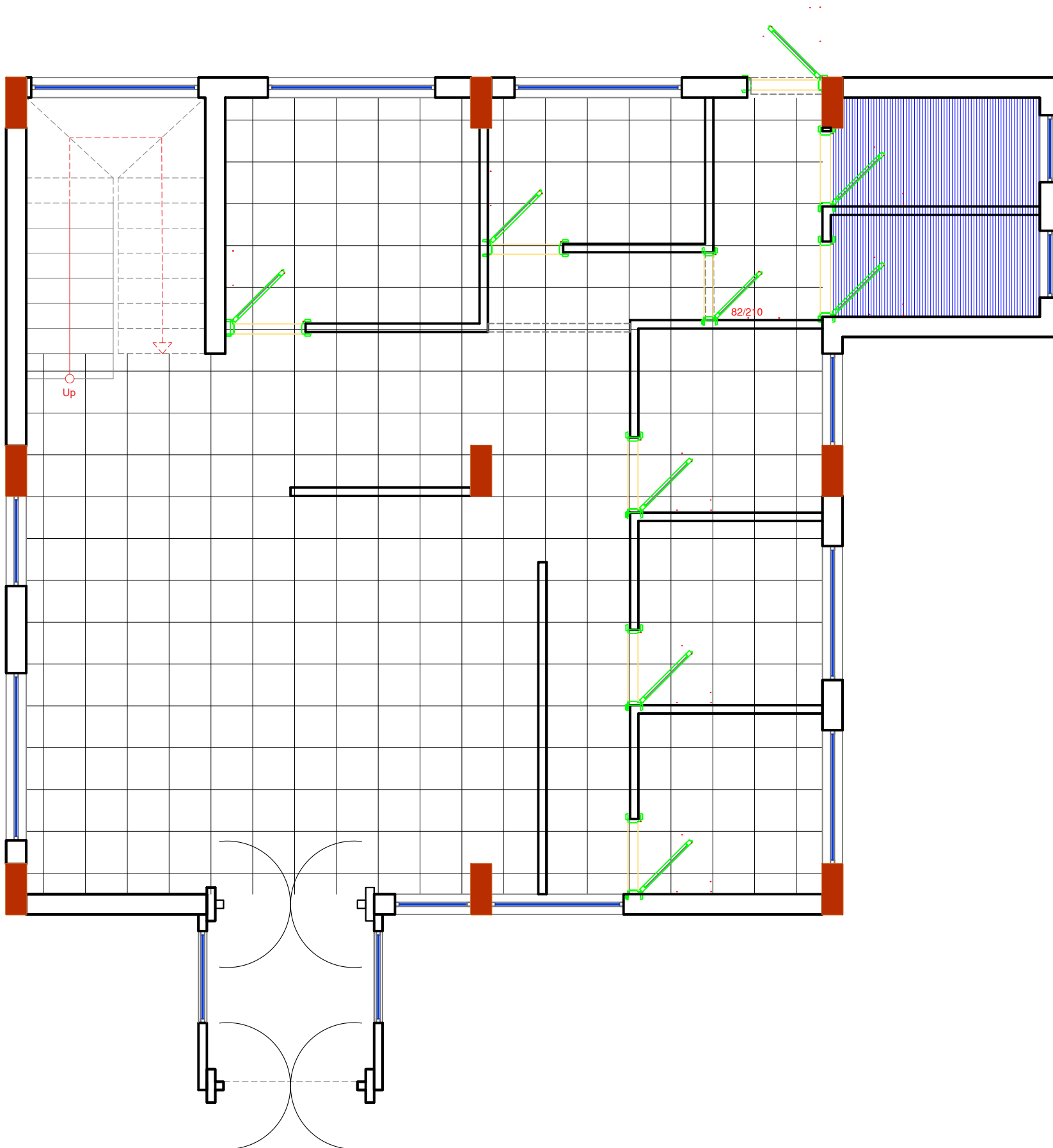
SCALE: NOT TO SCALE

DATE: 10/12/2023

SHEET NAME: DETAIL OF WINDOW

SHEET NO. ARCH. 16

PROJECT NO.



NOTES:

-  False Ceiling (Acoustic Type)
-  False Ceiling (PVC Type)

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 112.68 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:



APPROVED:
HOME For Engineering Consultancy

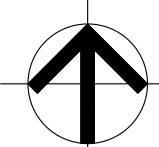
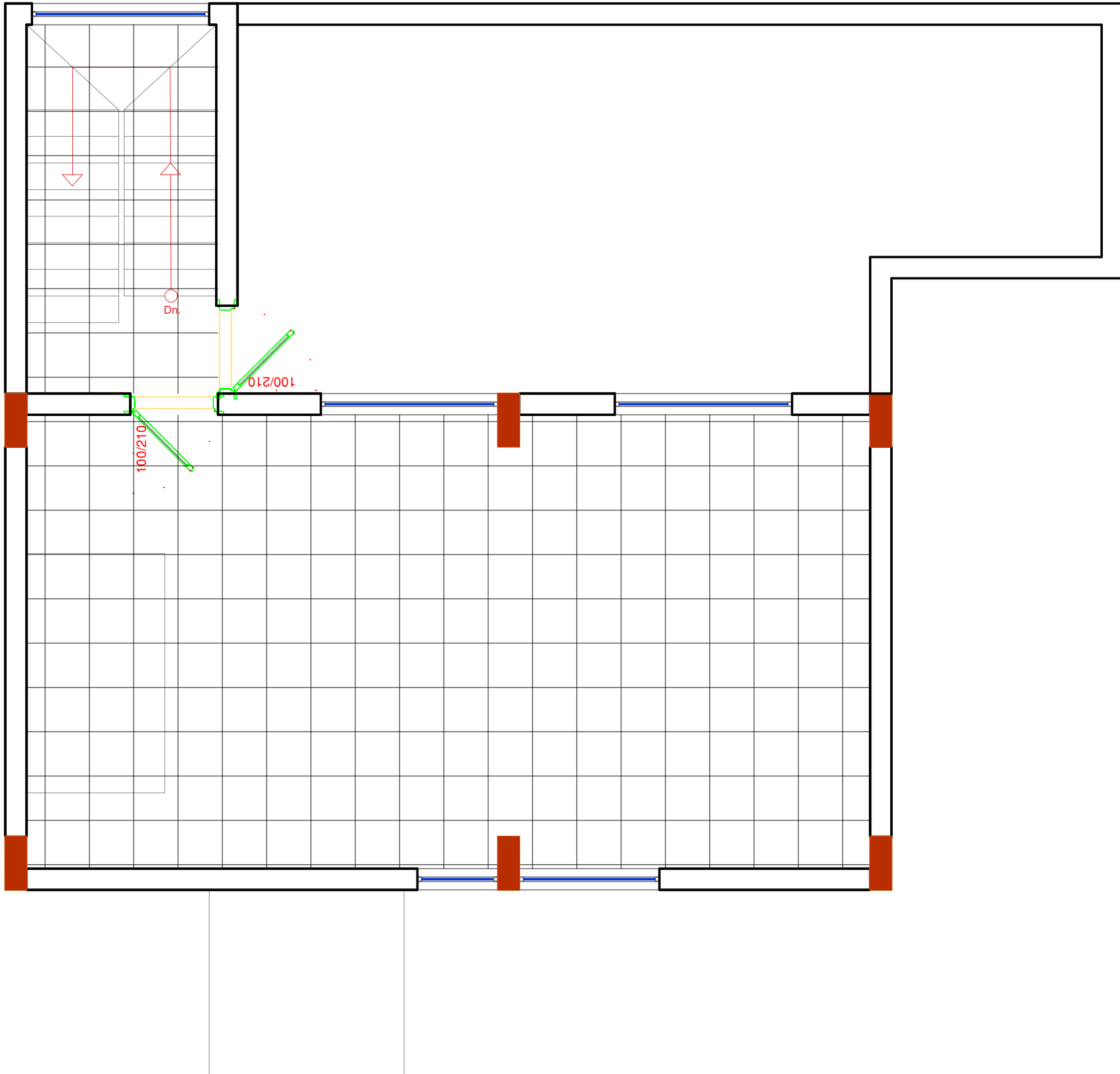
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: GROUND FLOOR
CEILING MATERIAL

SHEET NO. ARCH. 18

PROJECT NO.



NORTH

NOTES:



False Ceiling
(Acoustic Type)

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: 67.36 m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH – IRAQ

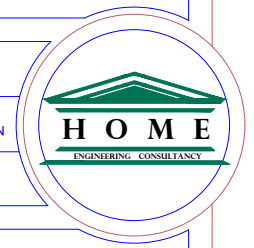
DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:



APPROVED:

HOME For Engineering Consultancy

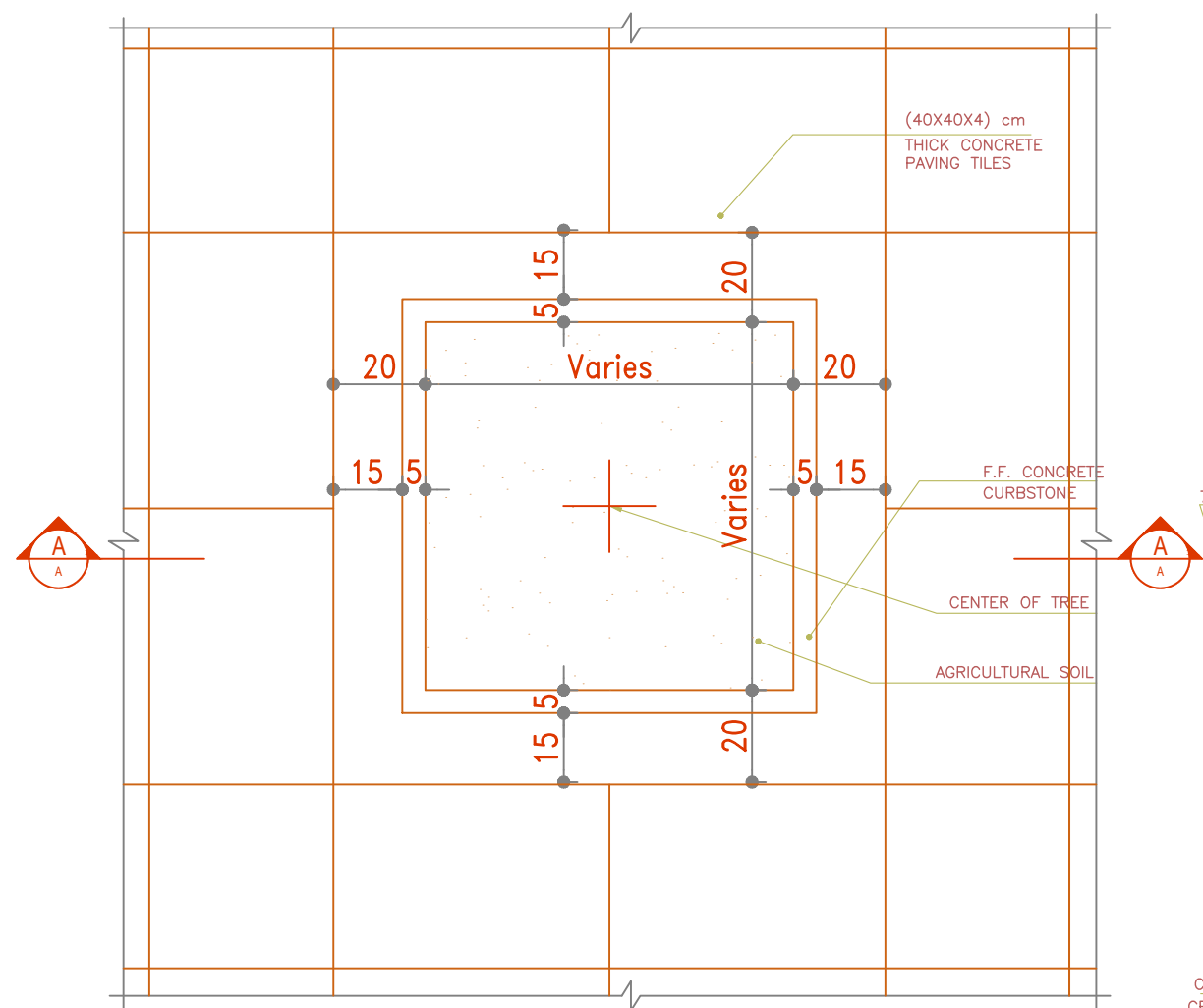
SCALE: 1:100

DATE: 10/12/2023

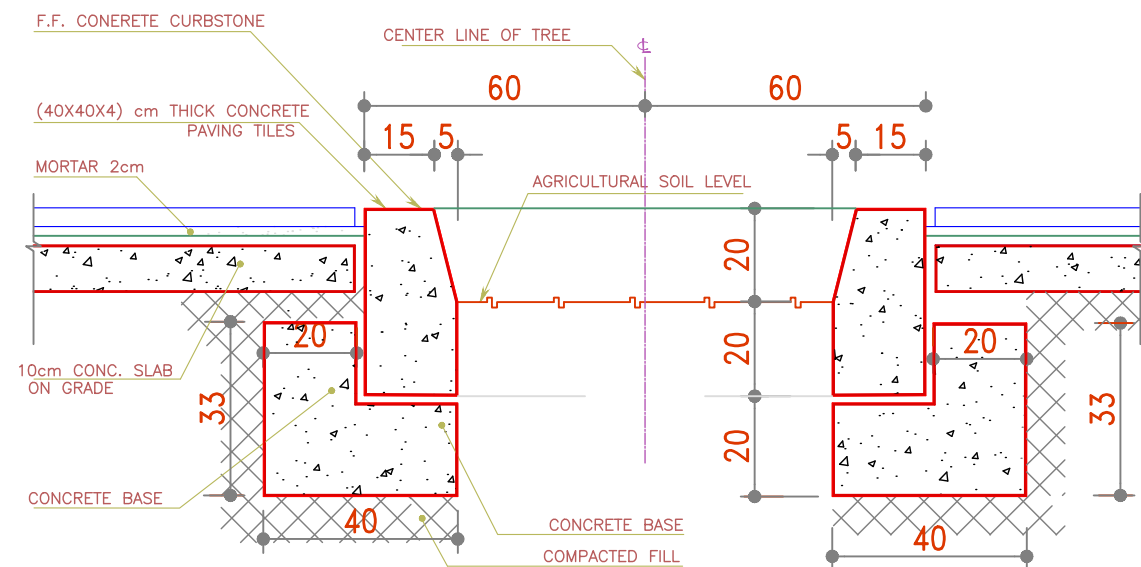
SHEET NAME: FIRST FLOOR
CEILING MATERIAL

SHEET NO. ARCH. 15

PROJECT NO.



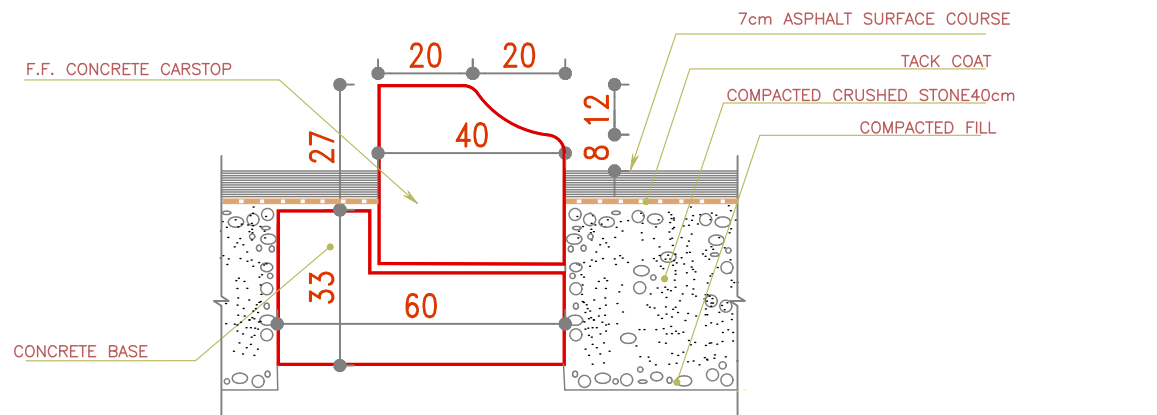
DETAILED PLAN (TREE-BED DETAIL)



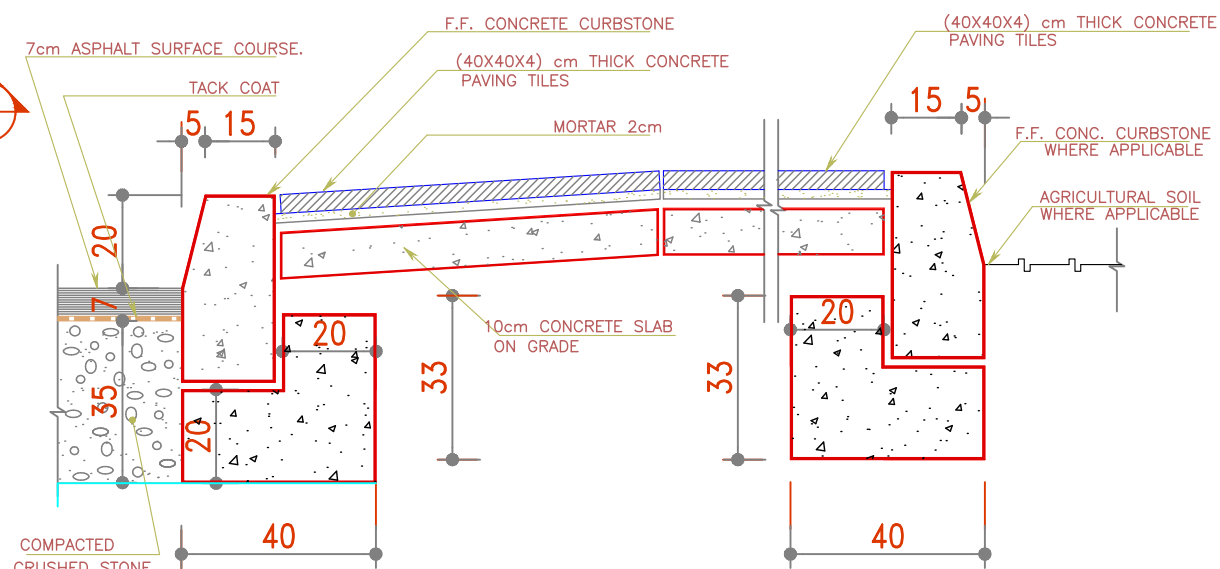
SECTION A-A

NOTE:
- THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF CURBSTONE TO THE APPROVAL OF THE ARCHITECT

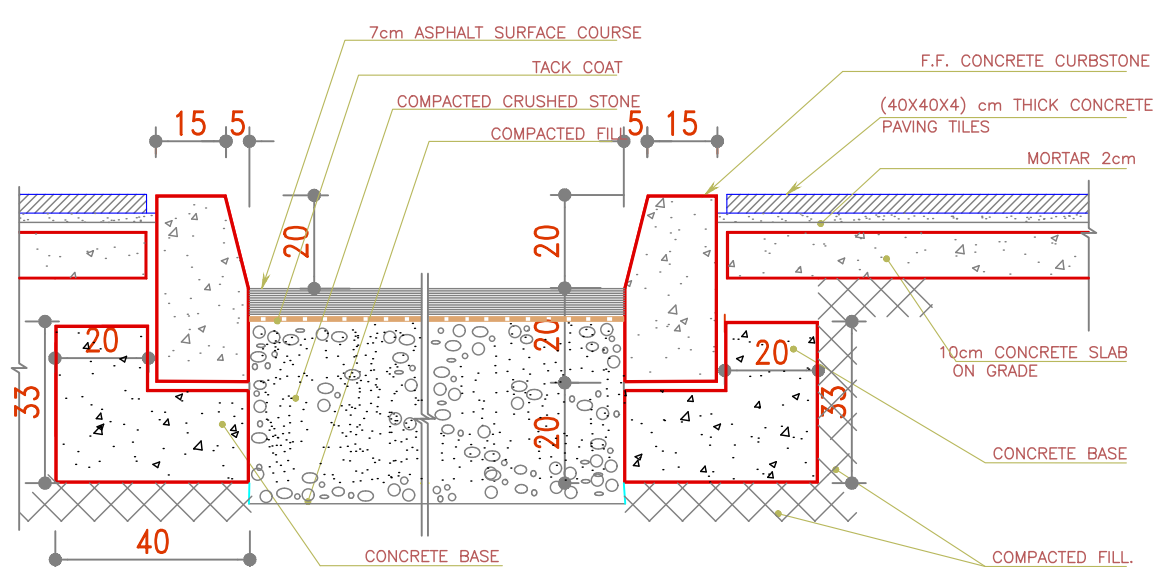
EXTERIOR CURBSTONES



TYPICAL (CARSTOP) DETAILS



TYPICAL (ROAD-WALKWAY & AGRICULTURAL SOIL) DETAIL



TYPICAL (WALKWAY-ROAD) DETAILS



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH - IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

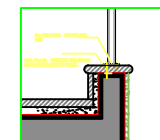
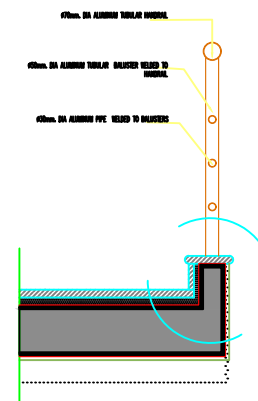
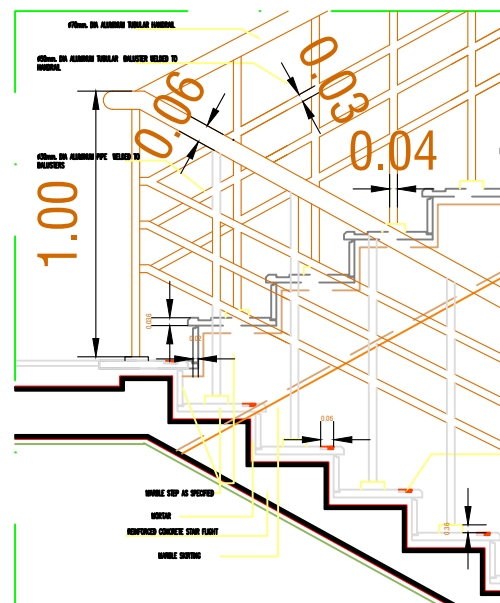
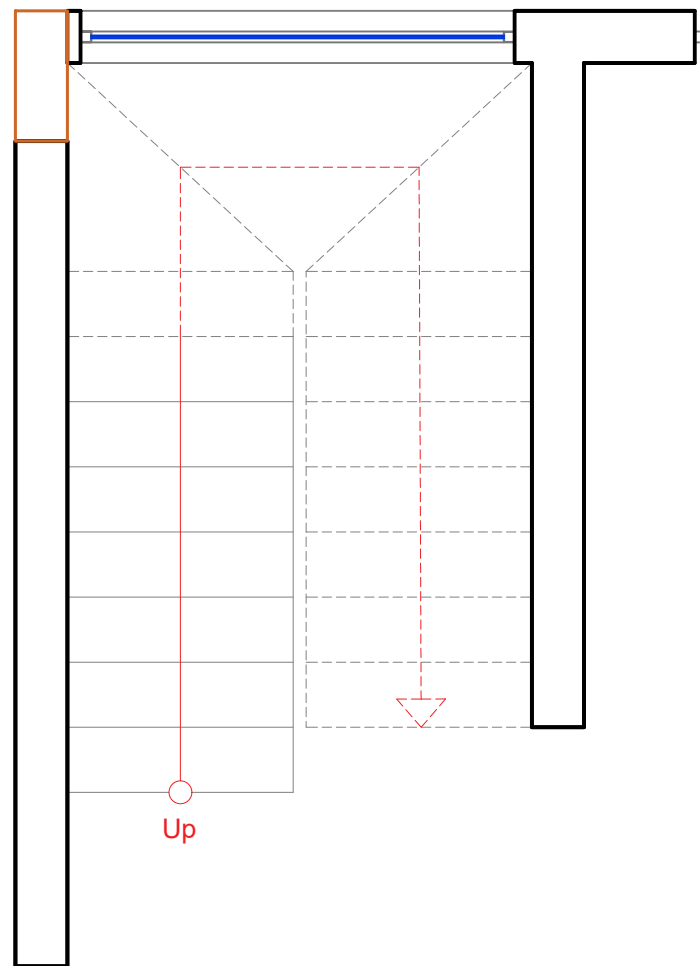
DATE: 10/12/2023

SHEET NAME: Pavement Section
Detail

SHEET NO. ARCH. 21

PROJECT NO.



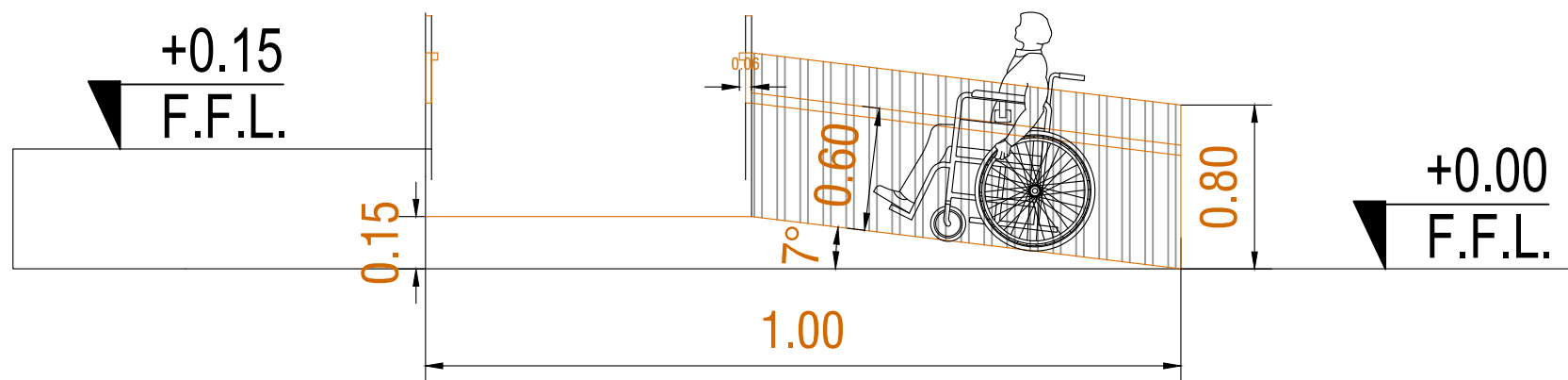


Staircase

R=180mm

T=300mm

Risers no.=19



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

ARCHITECTURAL

LOCATION:

BASRAH - IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

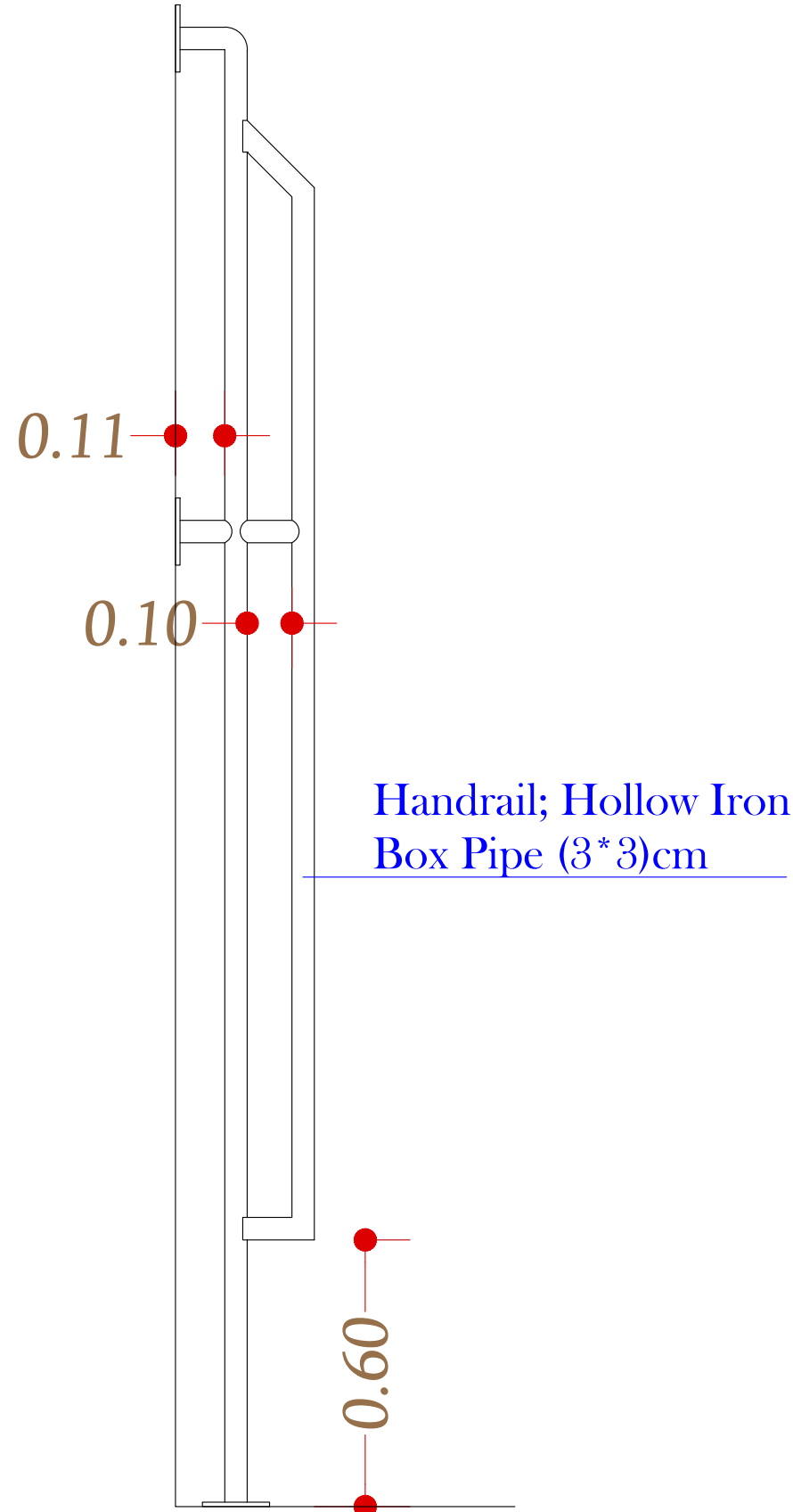
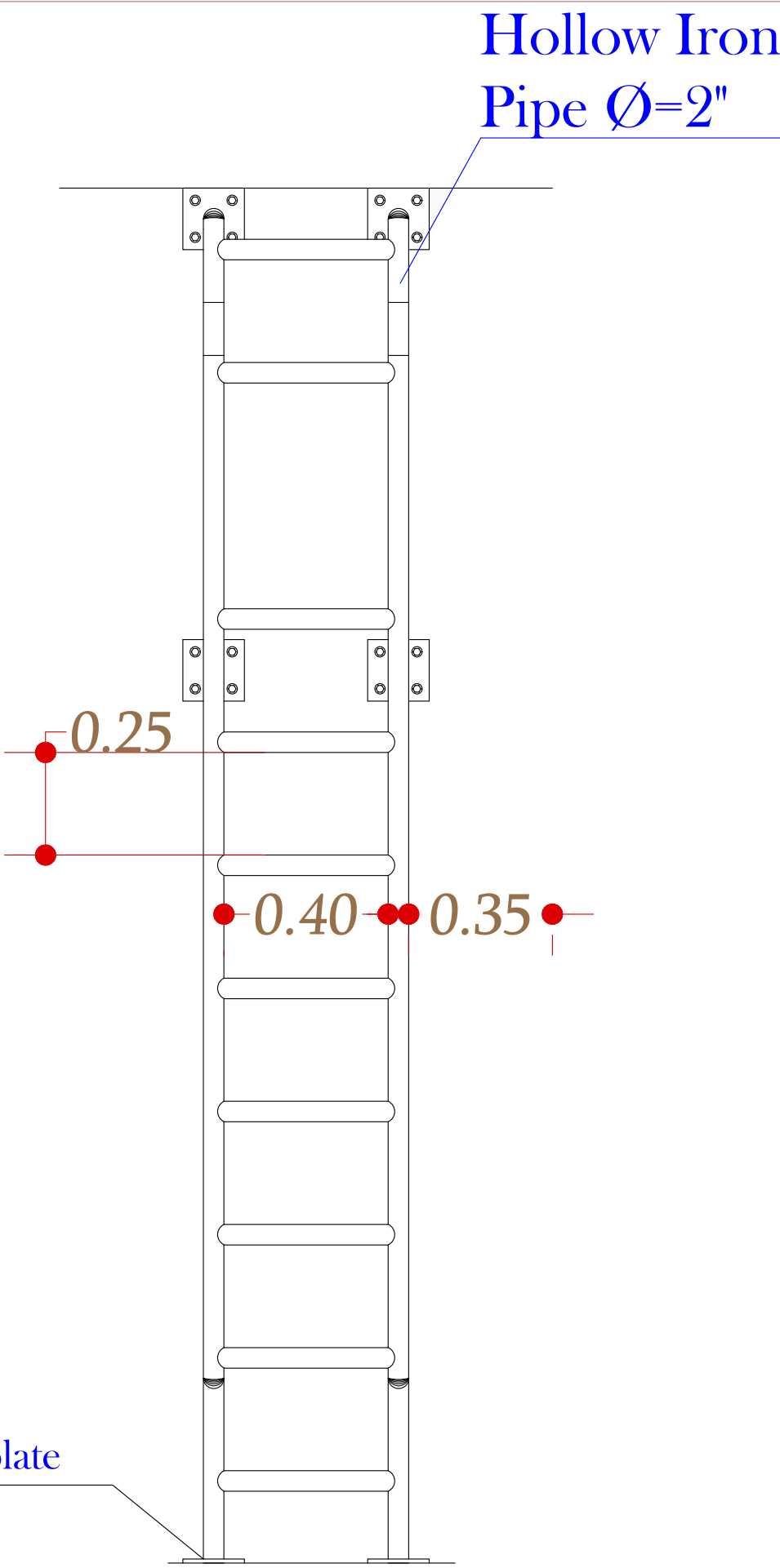
DATE: 10/12/2023

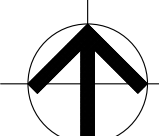
SHEET NAME: Rump and Staircase
Detail

SHEET NO. ARCH. 22

PROJECT NO.







NORTH

NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH – IRAQ

DESIGNED:
AKO M. HUSSEIN

DRAWN:
AKO M. HUSSEIN

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: N.T.S.

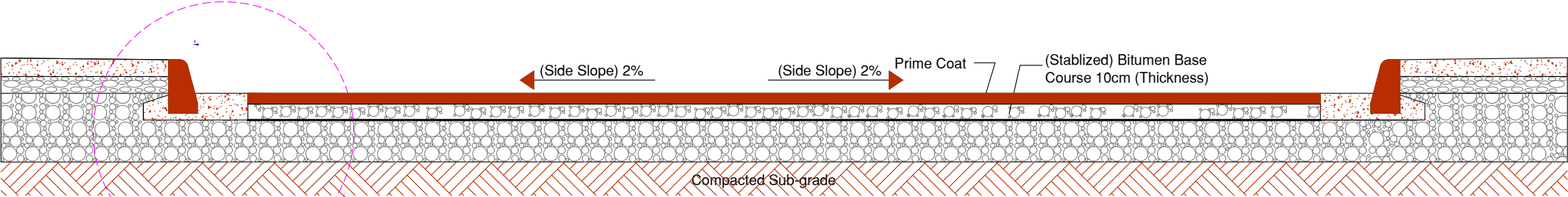
DATE: 10/12/2023

SHEET NAME: Roof Steel Ladder Detail

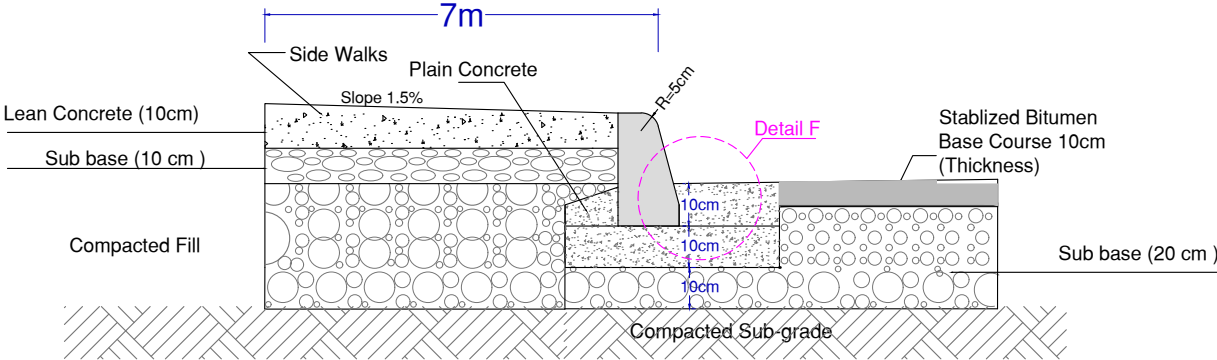
SHEET NO. ARCH. 23

PROJECT NO.

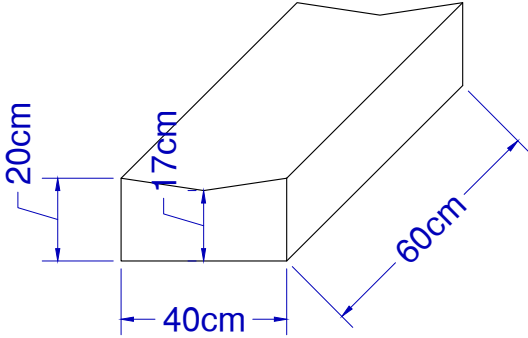




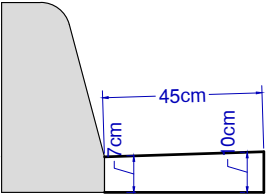
Section 1-1
Typical Cross-section of Asphalt Pavement



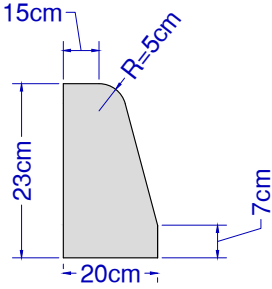
Detail - A -



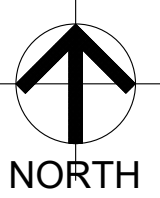
Detail of Middle Channel



Detail - F -



Detail of Concrete Curb.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
ARCHITECTURAL

LOCATION:
BASRAH - IRAQ

DESIGNED:

AKO M. HUSSEIN

DRAWN:

AKO M. HUSSEIN

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: Pavement Section
Detail

SHEET NO. ARCH. 20

PROJECT NO.



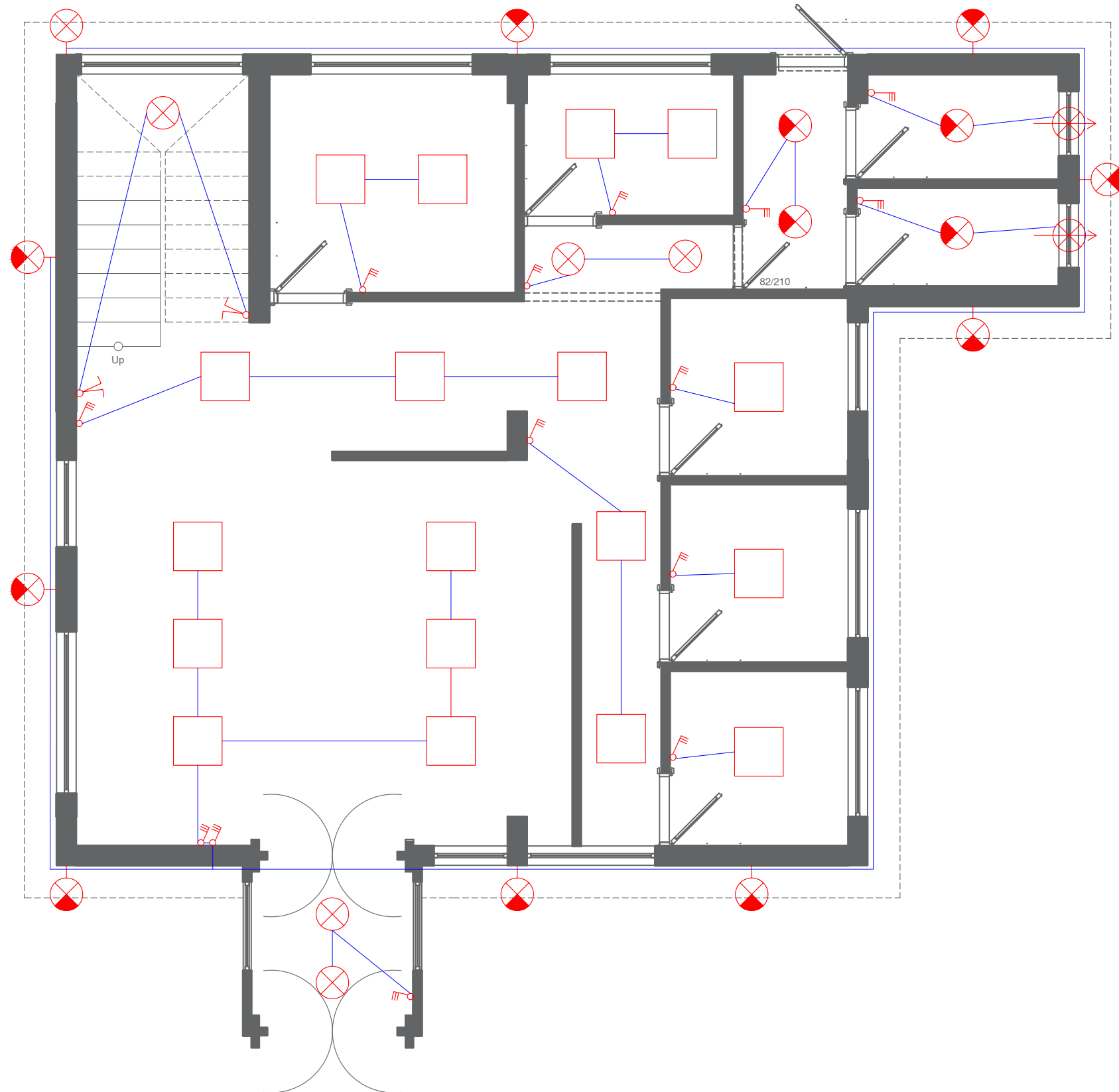
EMPLOYMENT CENTRE BUILDING PROJECT

ELECTRICAL DRAWINGS

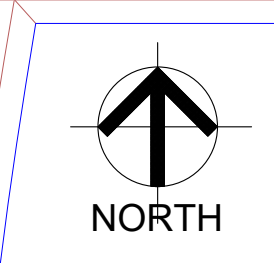
Basrah - Iraq

Dec. 2023





GROUND FLOOR/LIGHTING INSTALLATIONS



NOTES:

- 4x18w Ceiling LED
- 1x60w ceiling mounted lamp.
- 1x60w ceiling mounted lamp wp.
- 1x60w wall mounted lamp.
- 1x60w wall mounted lamp wp.
- 1x150w ceiling mounted lamp.
- Exhaust fan
- Tow way switch.
- One way switch.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

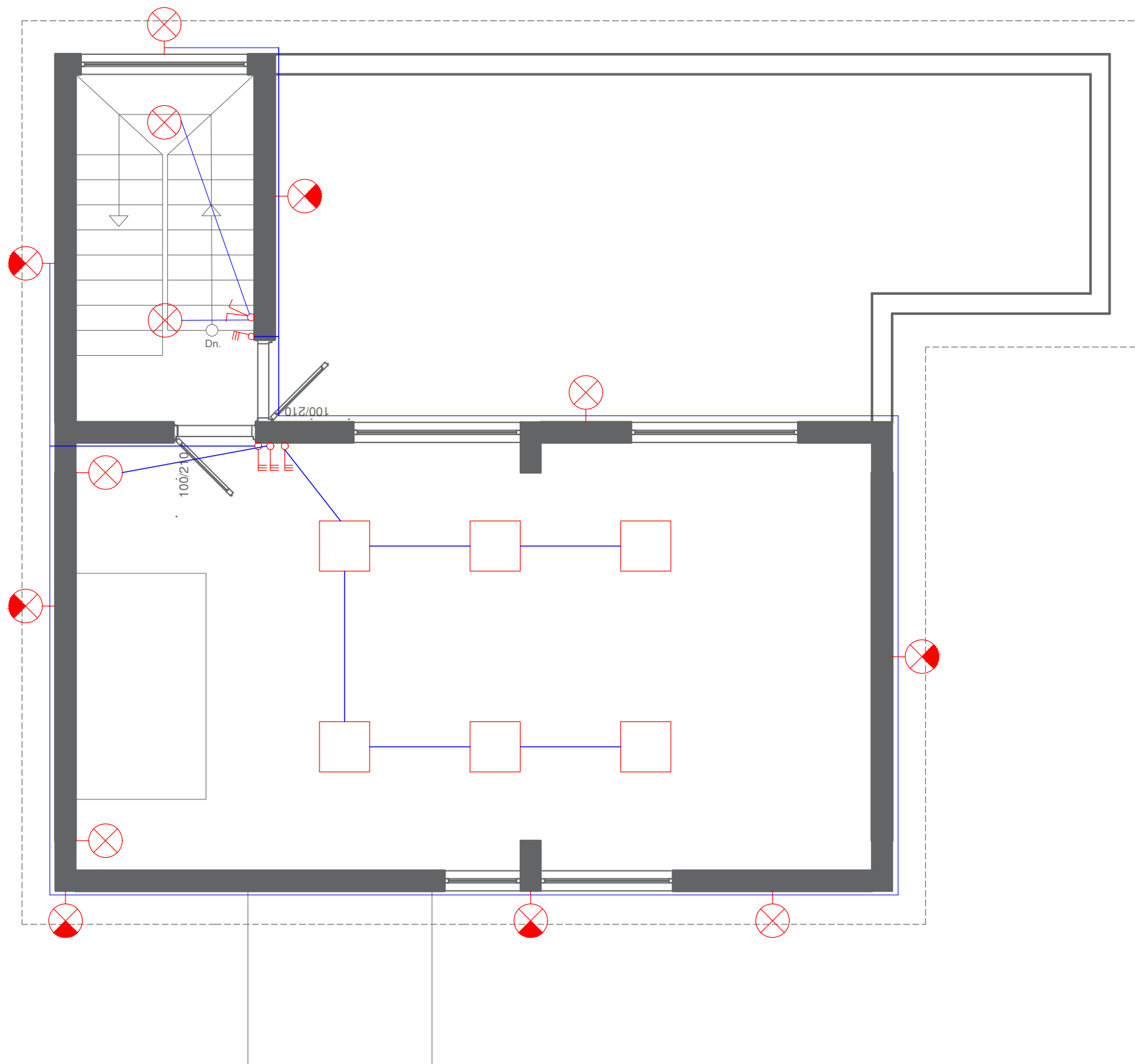
DATE: 10/12/2023

SHEET NAME: Ground Floor Lighting

SHEET NO. Elec. : 01

PROJECT NO.





1st FLOOR/LIGHTING INSTALLATIONS



NOTES:

- 4x18w Ceiling LED
- 1x60w ceiling mounted lamp.
- 1x60w ceiling mounted lamp wp.
- 1x60w wall mounted lamp.
- 1x60w wall mounted lamp wp.
- 1x150w ceiling mounted lamp.
- Exhaust fan
- Tow way switch.
- One way switch.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

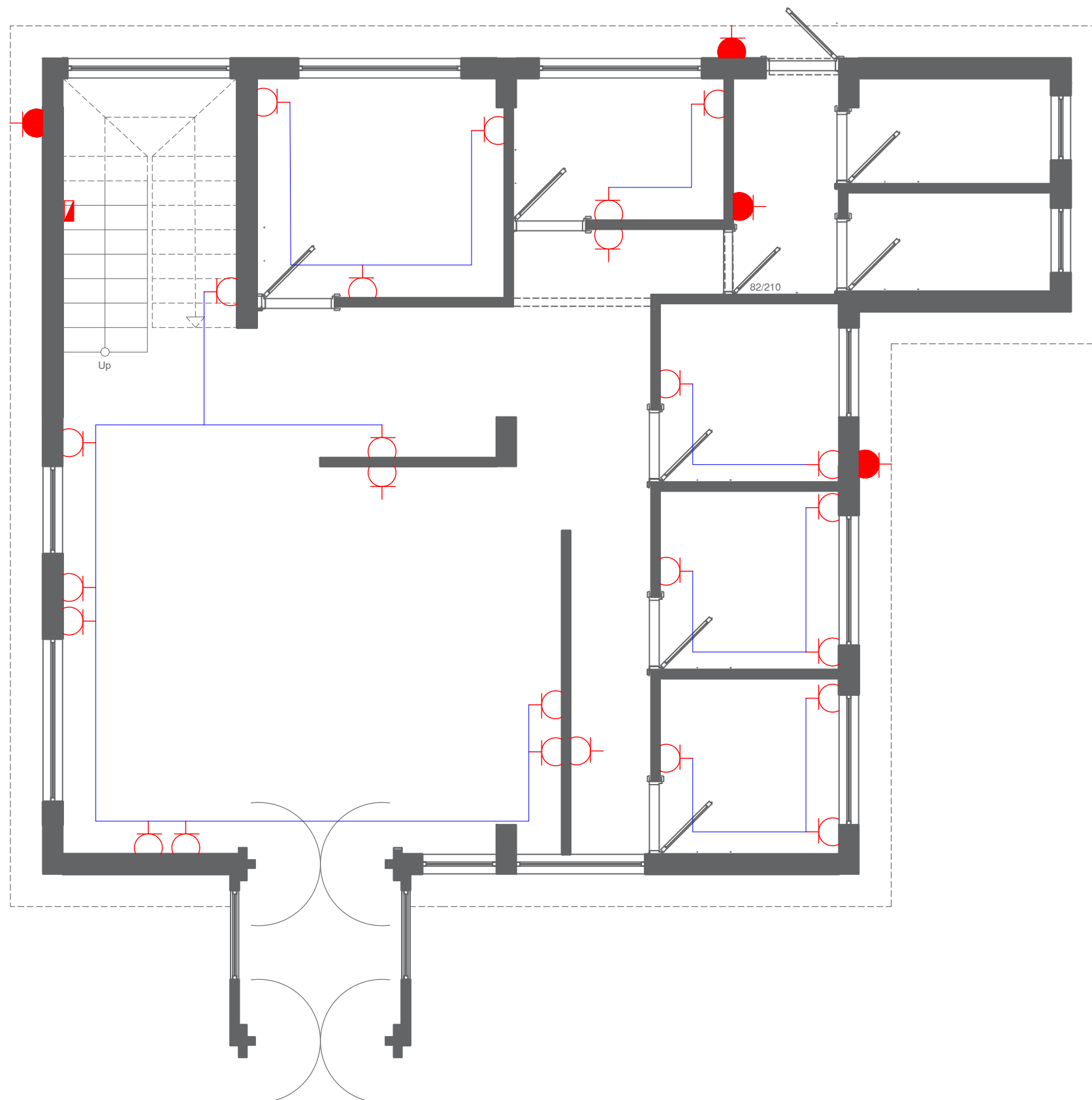
DATE: 10/12/2023

SHEET NAME: First Floor Lighting Installation

SHEET NO. Elec. : 02

PROJECT NO.





GROUND FLOOR/POWER, SOCKET INSTALLATIONS



NOTES:

- 13A Socket.
- 13A Socket w.p.
- Distribution board.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:



APPROVED:
HOME For Engineering Consultancy

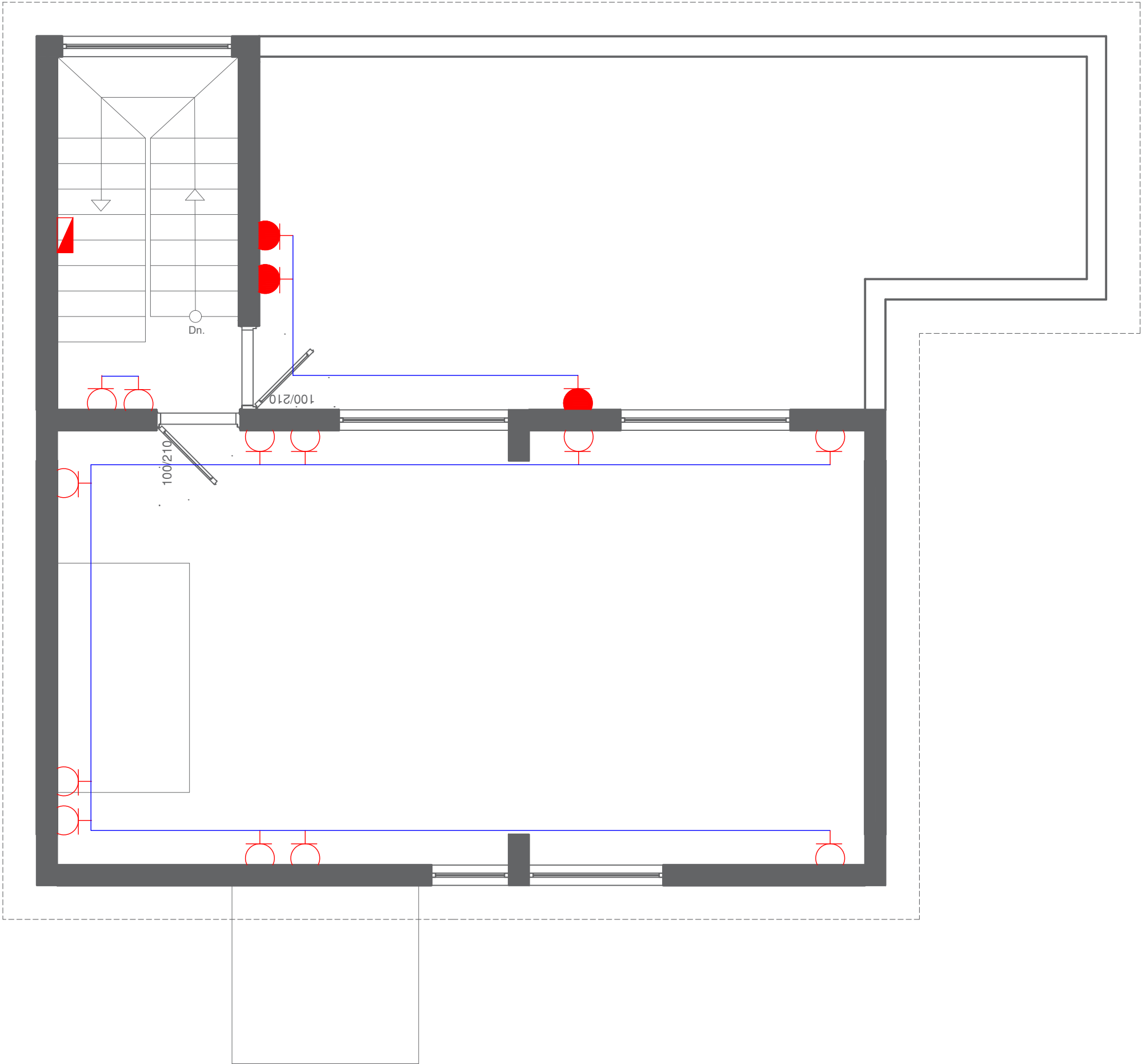
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Ground Floor Socket

SHEET NO. Elec. : 03

PROJECT NO.



NOTES:

- 13A Socket.
- 13A Socket w.p.
- Distribution board.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

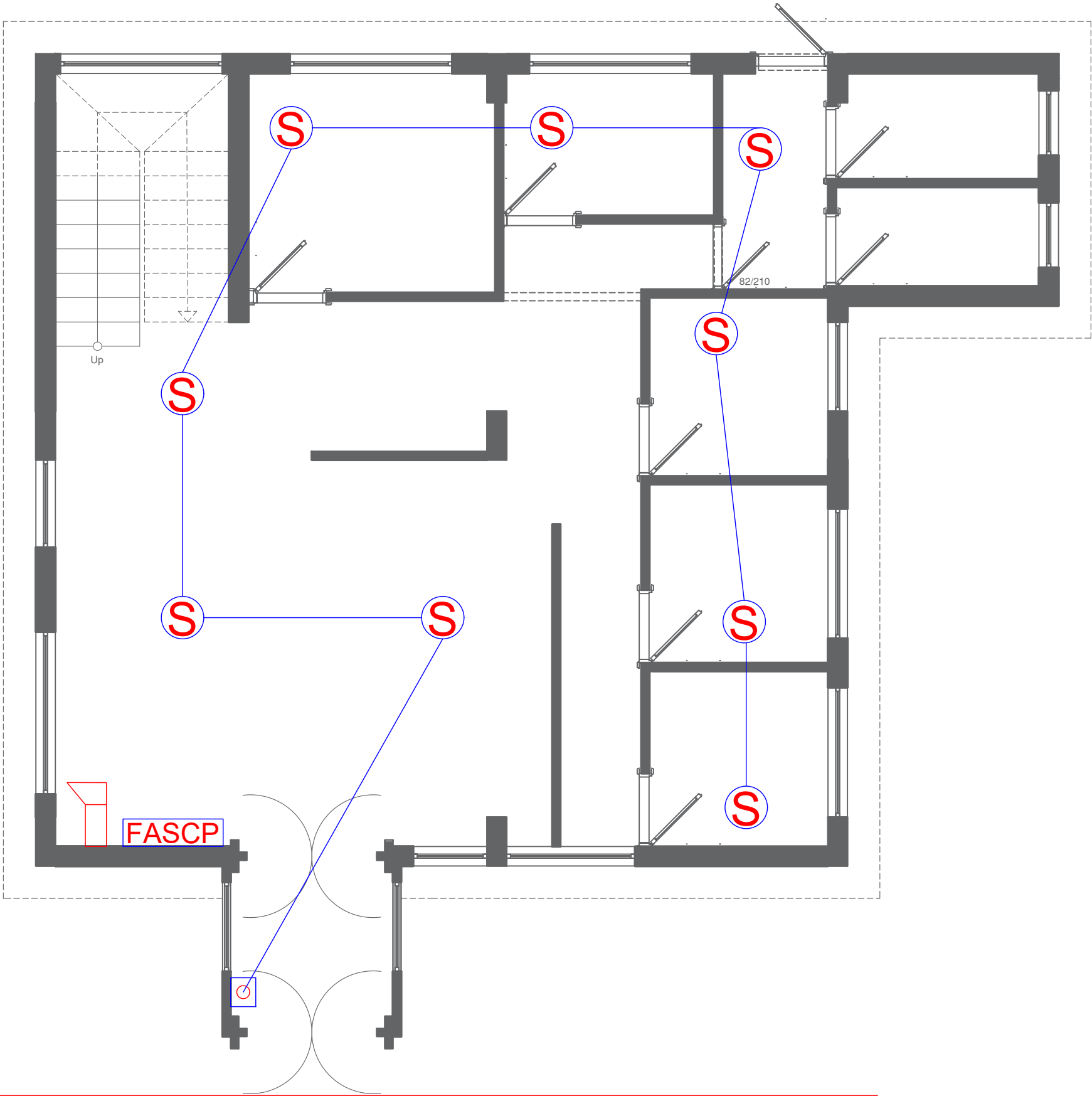
SCALE: 1:100

DATE: 10/12/2023

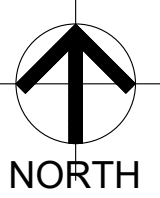
SHEET NAME: First Floor Socket

SHEET NO. Elec. : 04

PROJECT NO.



GROUND FLOOR/FIRE ALARM SYSTEM



NOTES:

-  Smoke detector.
-  Heat detector.
-  Break glass switch.
-  Horn.
-  Fire alarm system control panel

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

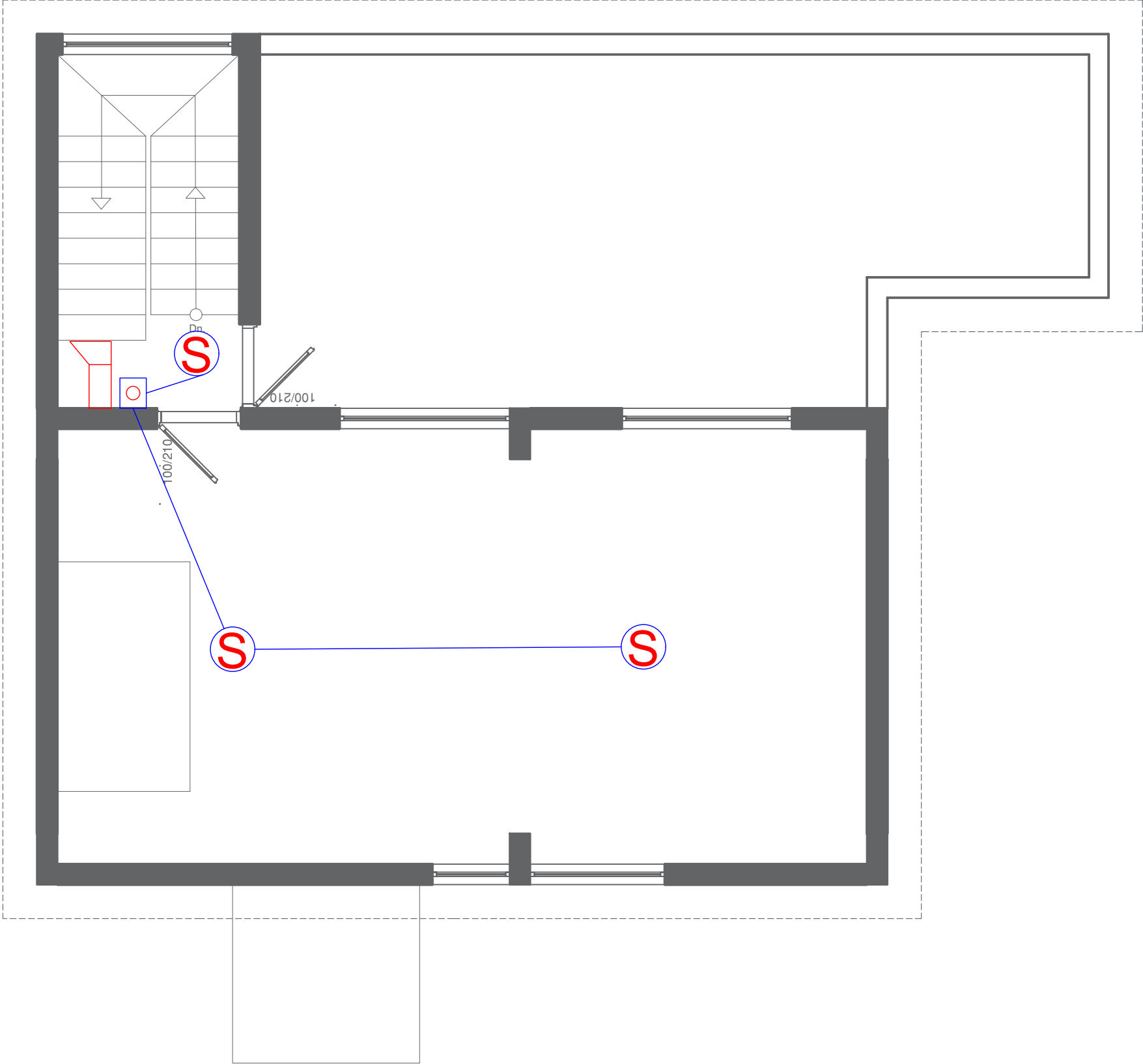
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Ground Floor Fire Alarm
Smoke Detector system

SHEET NO. Elec. : 05

PROJECT NO.



FIRST FLOOR/FIRE ALARM SYSTEM



NOTES:

-  Smoke detectore.
-  Heat detectore.
-  Break glass switch.
-  Horn.
-  Fire alamm system control panel

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

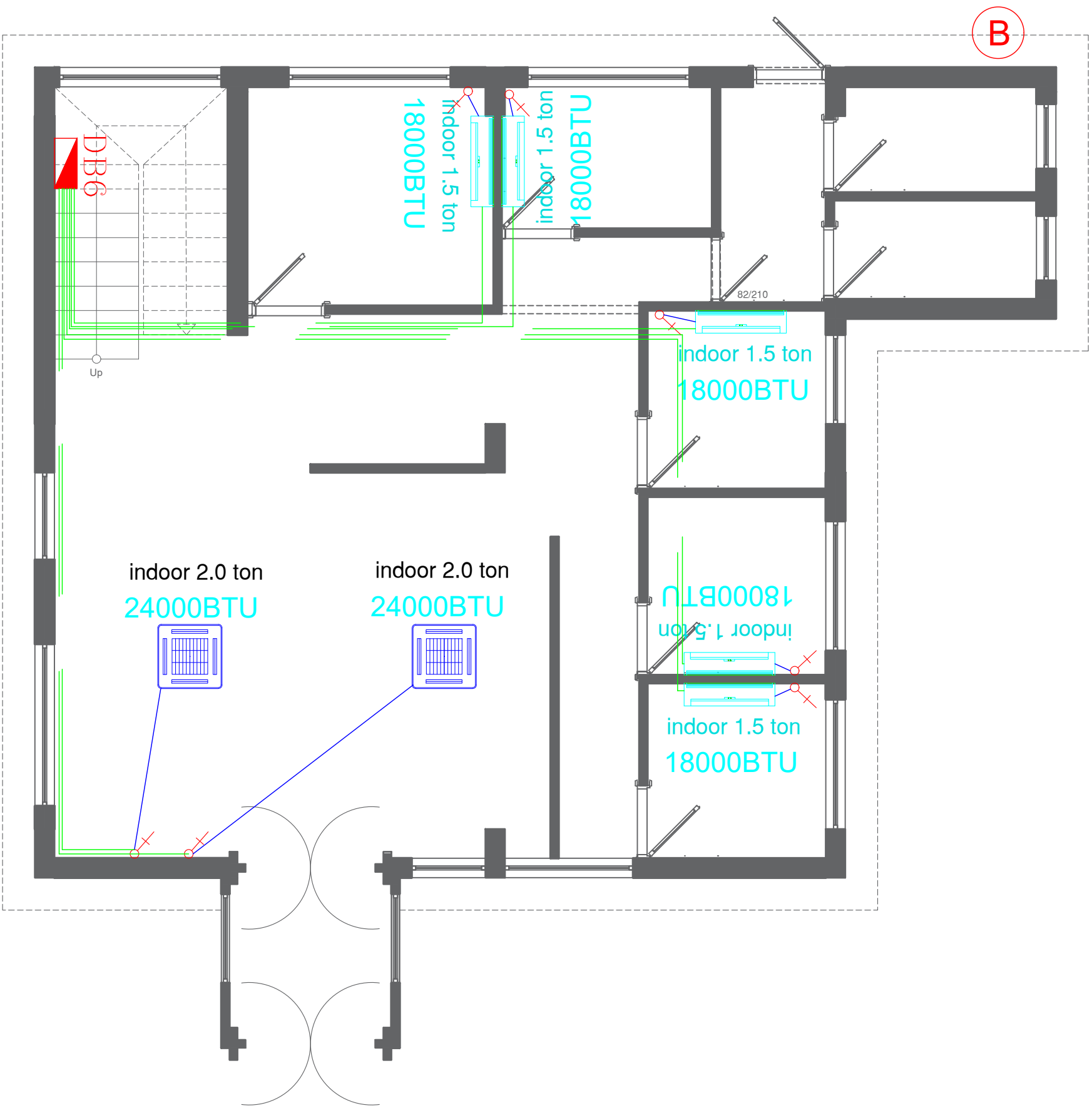
DATE: 10/12/2023

SHEET NAME: First Floor Fire Alarm
Smoke Detector system

SHEET NO. Elec. : 06

PROJECT NO.





GROUND FLOOR/SPLITUNIT OUTLET



NOTES:

- Wall mounted splitunit.
- Celing mounted splitunit.
- Grid switch.
- Water boiler.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:



APPROVED:
HOME For Engineering Consultancy

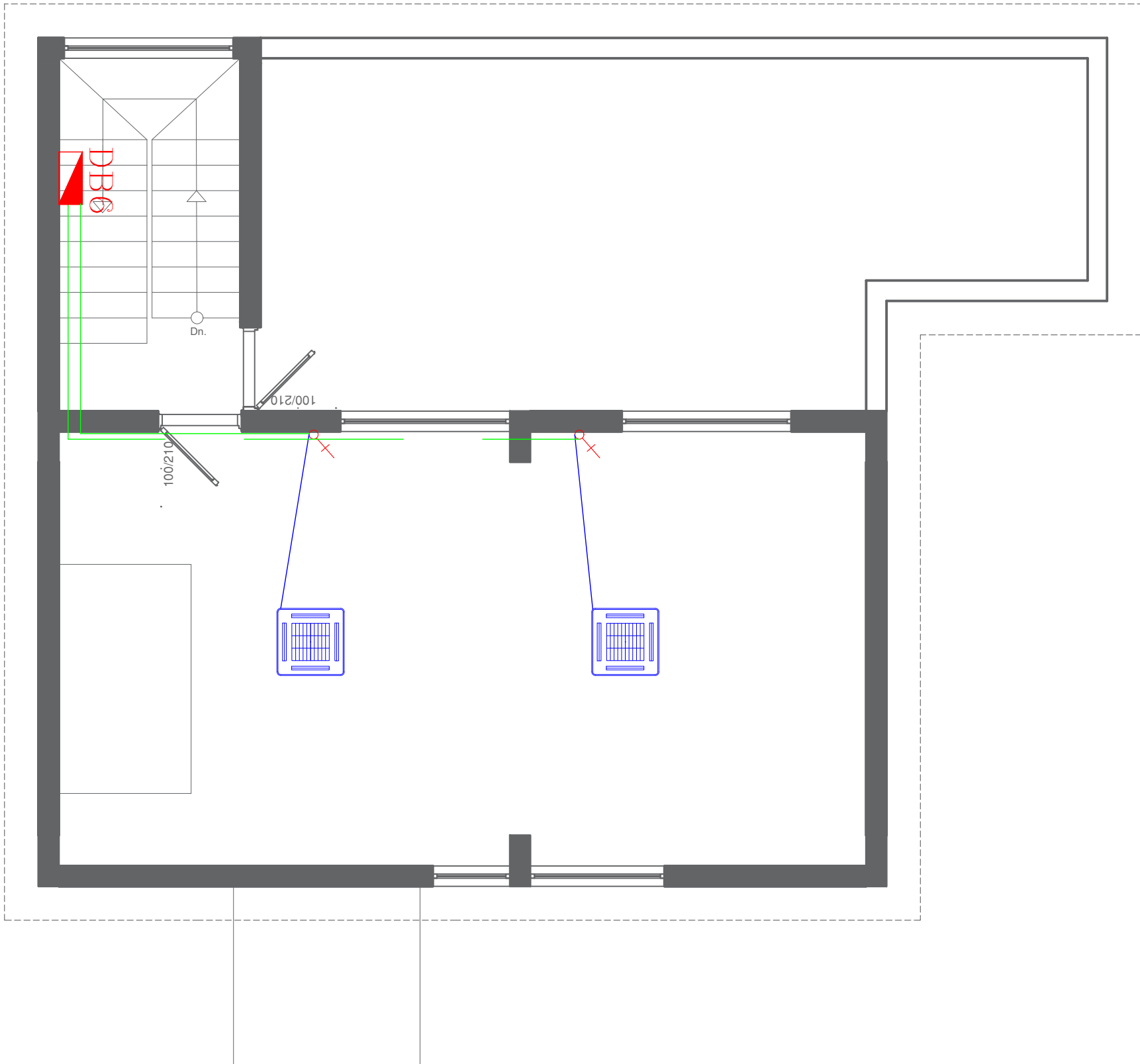
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Ground Floor Split Units
& Boiler

SHEET NO. Elec. : 07

PROJECT NO.



FIRST FLOOR/SPLITUNIT OUTLET



NOTES:

- Wall mounted splitunit.
- Celing mounted splitunit.
- Grid switch.
- Water boiler.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

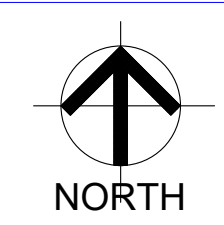
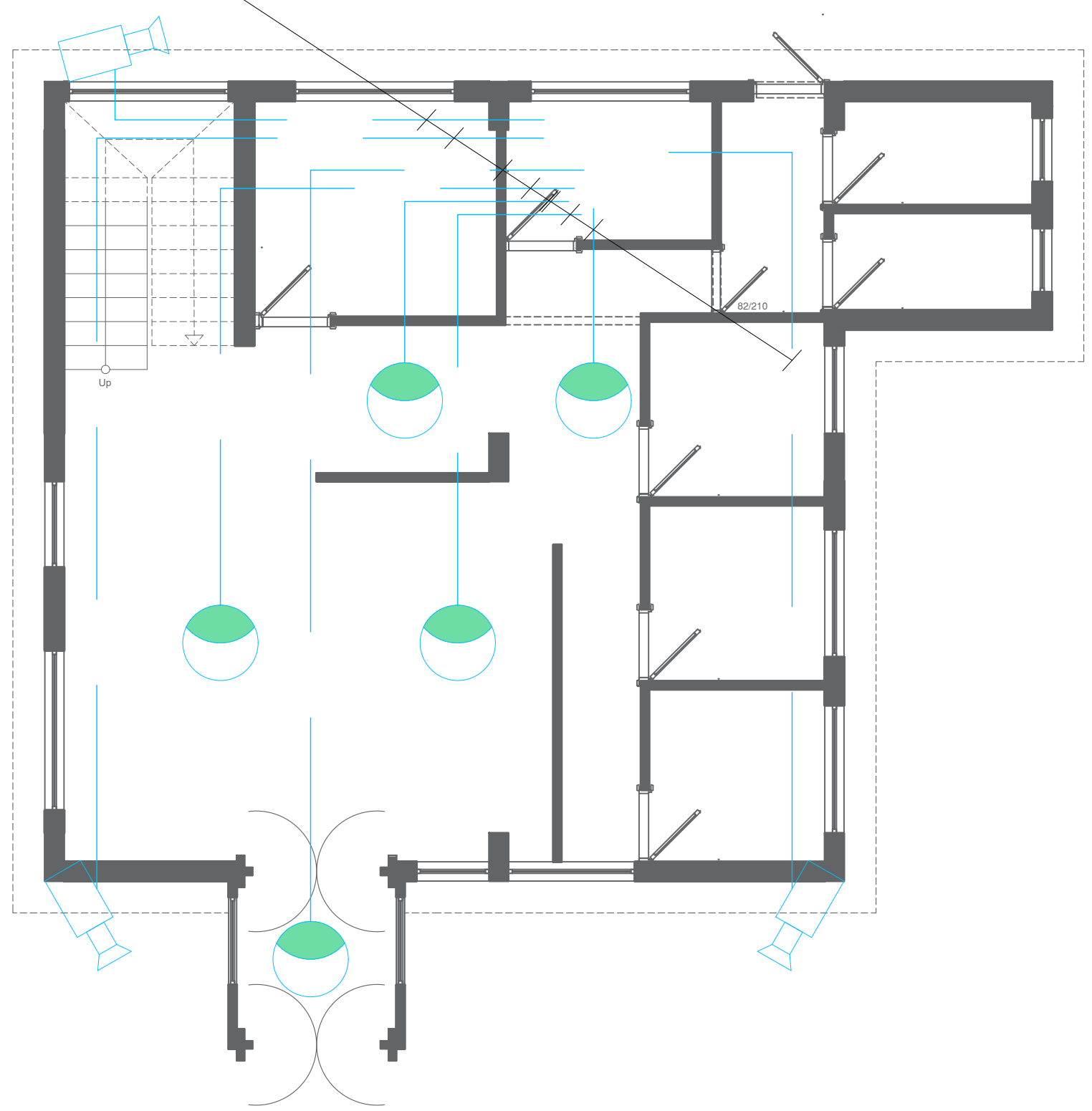
DATE: 10/12/2023

SHEET NAME: First Floor Split Units

SHEET NO. Elec. : 08

PROJECT NO.

Video cable
Power cable
to camera room



NOTES:

● Dom camera.
□ Outdoor camera.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

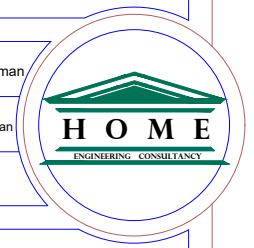
DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:



APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

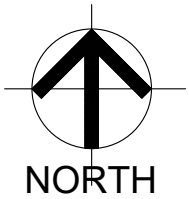
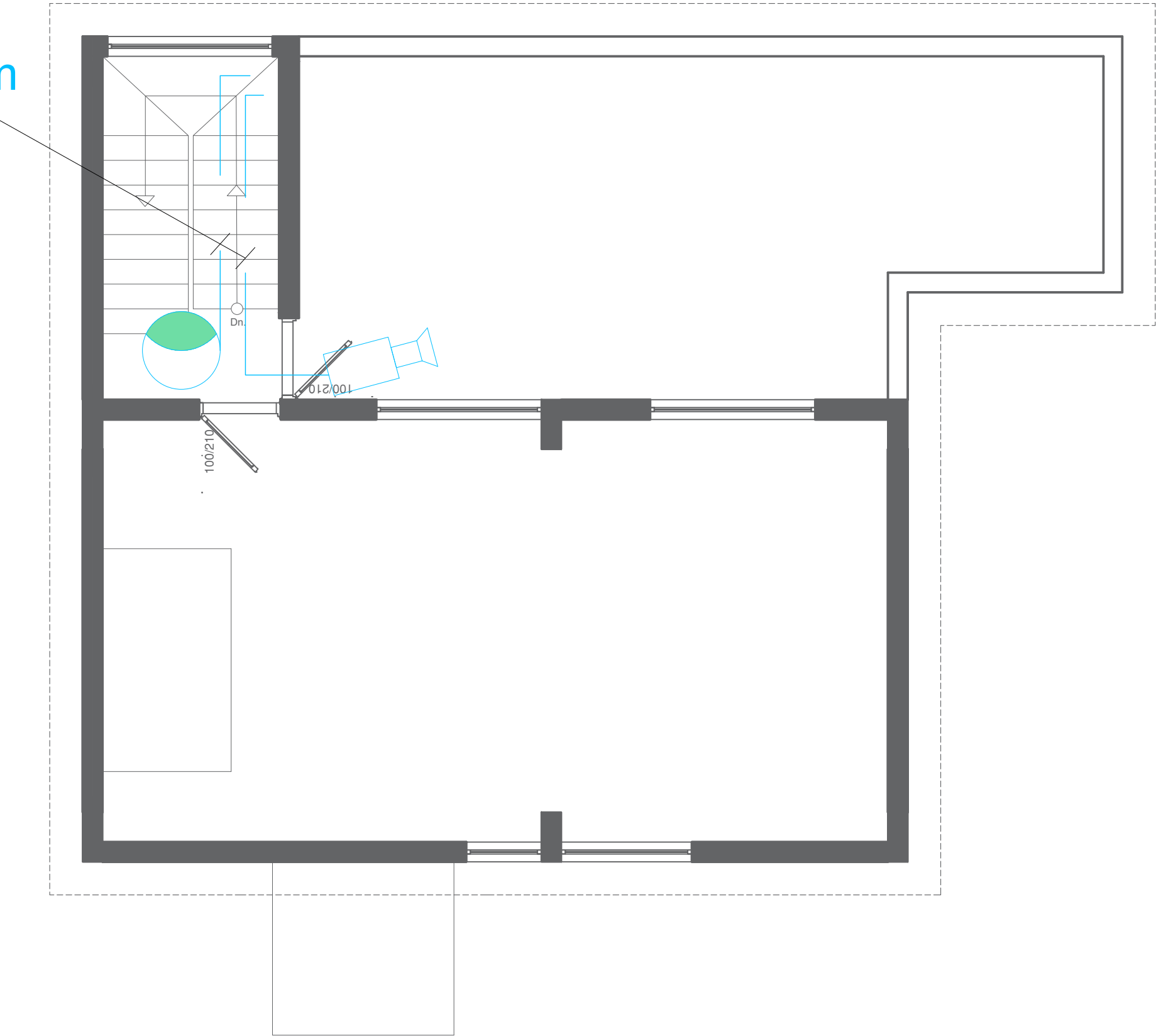
DATE: 10/12/2023

SHEET NAME: Ground Floor
Security System

SHEET NO. Elec. : 09

PROJECT NO.

Video cable
Power cable
to camera room



NOTES:

- Dom camera.
- Outdoor camera.

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

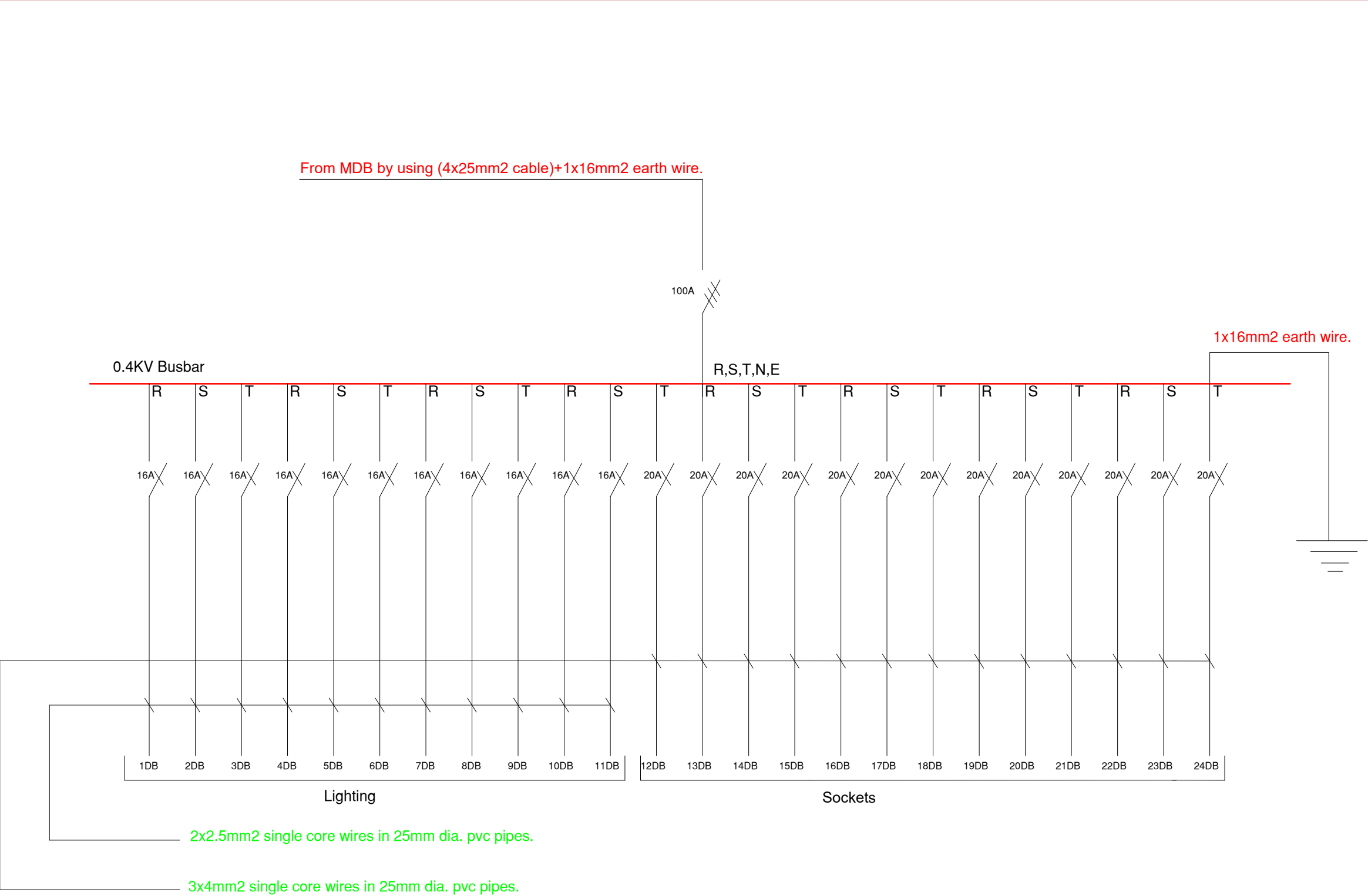
DATE: 10/12/2023

SHEET NAME: First Floor
Security System

SHEET NO. Elec. : 10

PROJECT NO.





DB1 Single line diagram



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m²

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: N.T.S.

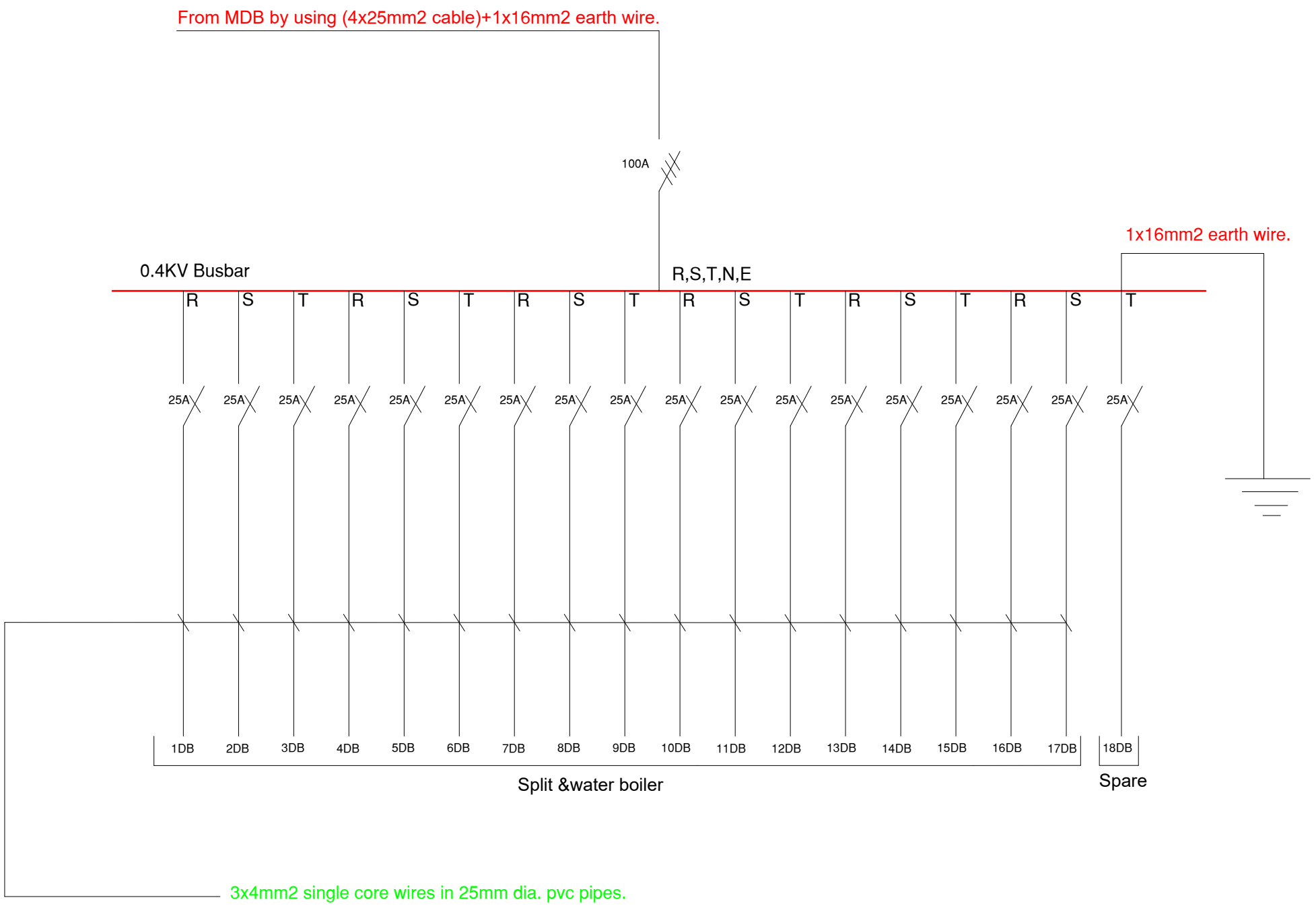
DATE: 10/12/2023

SHEET NAME: Distribution Board Diagram

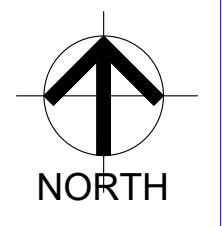
SHEET NO. Elec. : 11

PROJECT NO.





DB2 Single line diagram



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

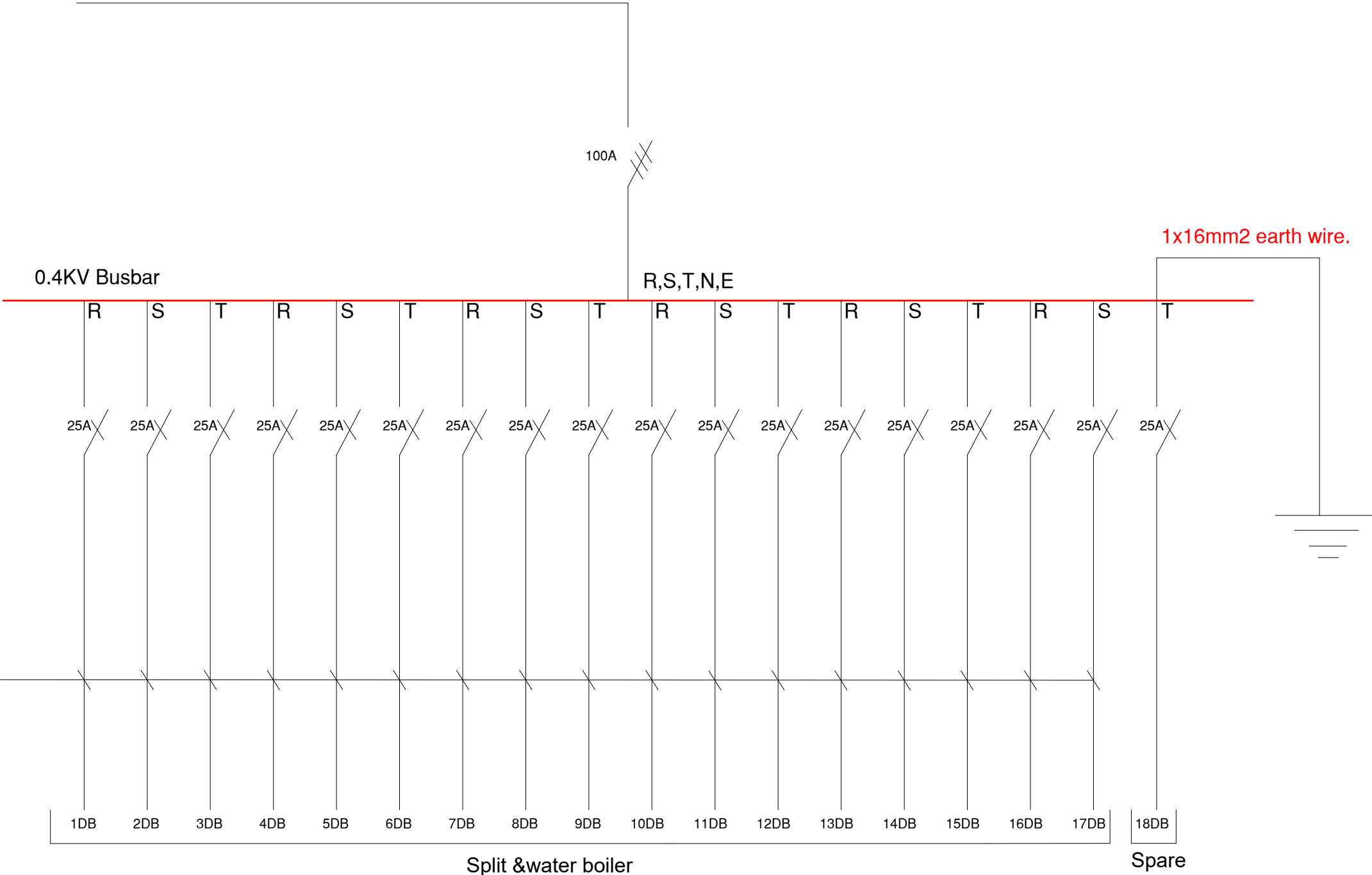
SHEET NAME: Distribution Board Diagram

SHEET NO. Elec. : 12

PROJECT NO.



From MDB by using (4x25mm2 cable)+1x16mm2 earth wire.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:



APPROVED:
HOME For Engineering Consultancy

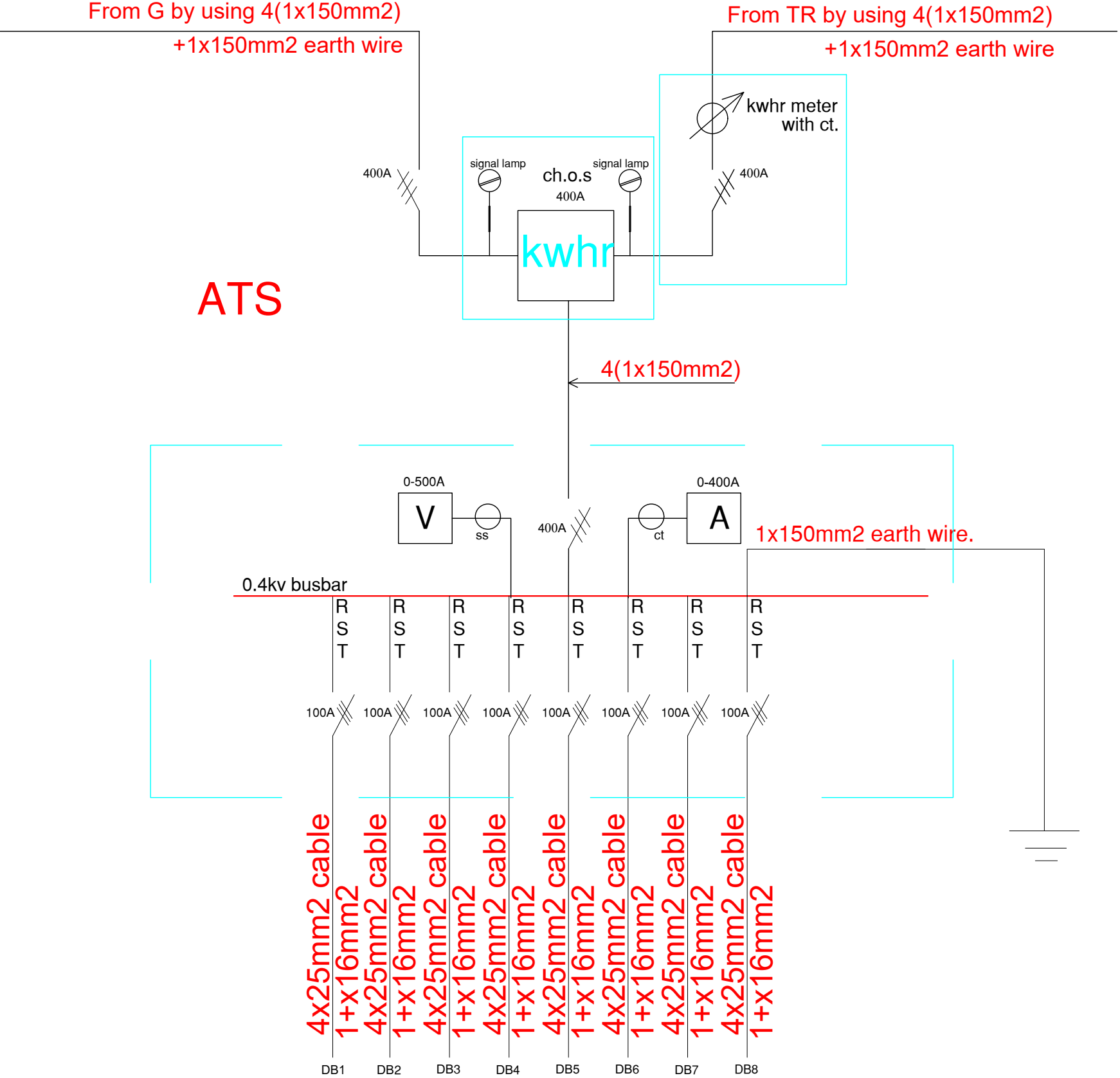
SCALE: N.T.S.

DATE: 10/12/2023

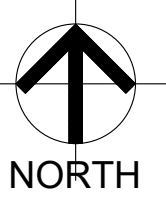
SHEET NAME: Distribution Board Diagram

SHEET NO. Elec. : 13

PROJECT NO.



MDB Single line diagram



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m²

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Electrical Drawing

LOCATION:
BASRAH - IRAQ

DESIGNED:
Niyaz Karim Sulaiman

DRAWN:
Niyaz Karim Sulaiman

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: N.T.S.

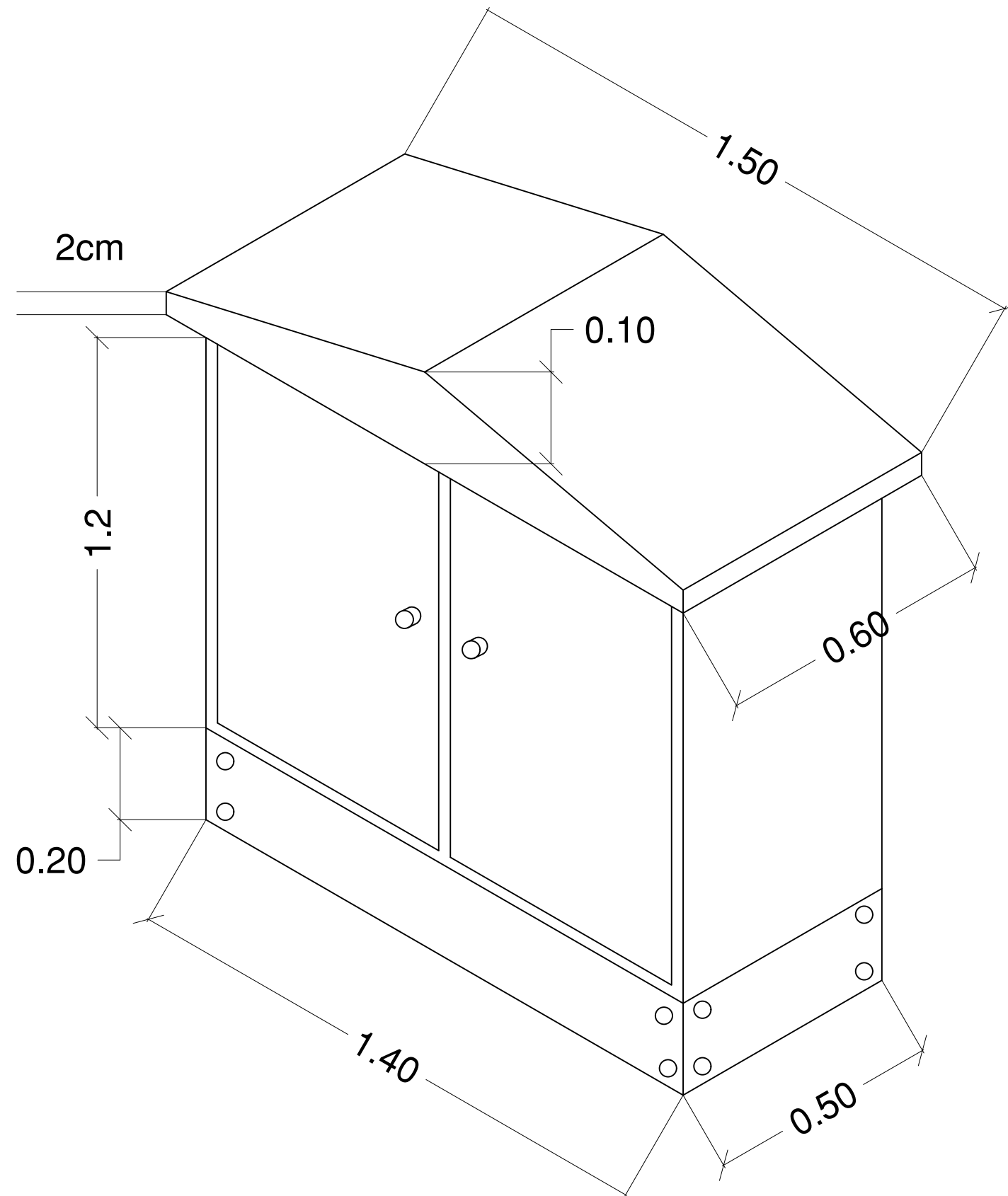
DATE: 10/12/2023

SHEET NAME: Main Distribution Board Diagram

SHEET NO. Elec. : 14

PROJECT NO.

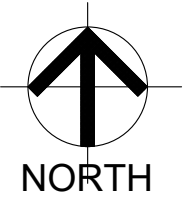




Notes:-

- * MDB frame made of iron sheet gauge 20 with two door one of them movable and the another to be opened after opening the movable one.Finally painted by antirust paint then by 2 layers of light gray oil paint.
- * 5 spices of bus bar to be installed in the right side of MDB with 500v L.T. bushing and covered by insulation cover.
- * All other sub-circuit breakers to be installed in the left side of MDB hiding under the movable door.
- * Double Cover internally erected one under the equipment & the another should be put as a cover to hide all bus bar & circuit breakers.

MDB frame



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

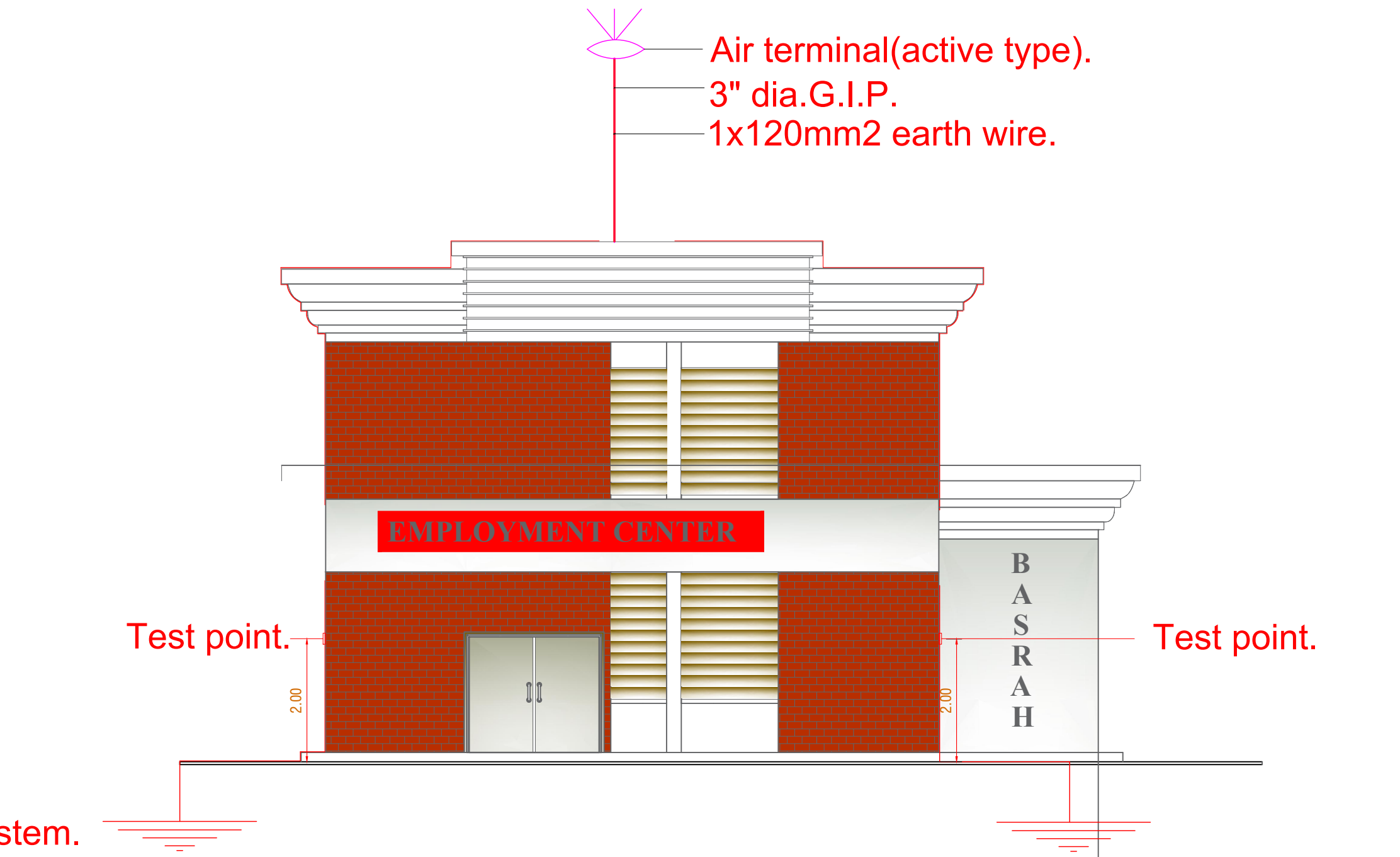
DATE: 10/12/2023

SHEET NAME: Main Distribution Board Frame

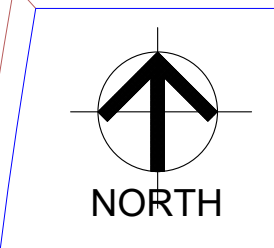
SHEET NO. Elec. : 15

PROJECT NO.





LIGHTNING PROTECTION SYSTEM



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

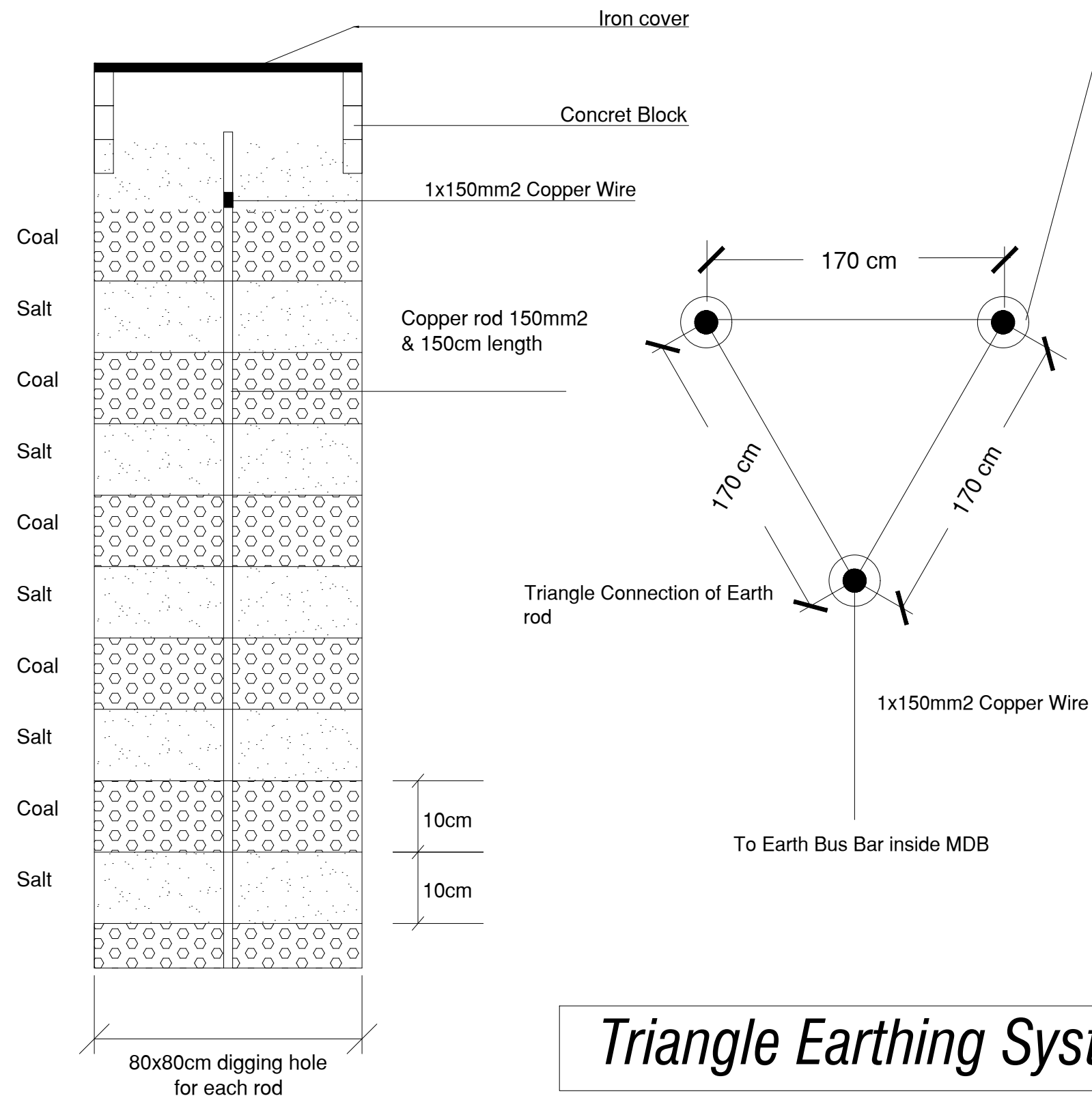
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Lightning Protection System

SHEET NO. Elec. : 16

PROJECT NO.



Triangle Earthing System

Detail A



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m²

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Electrical Drawing

LOCATION:

BASRAH - IRAQ

DESIGNED:

Niyaz Karim Sulaiman

DRAWN:

Niyaz Karim Sulaiman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: Lightning Protection System

SHEET NO. Elec. : 17

PROJECT NO.

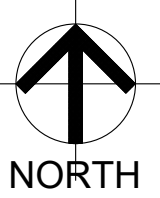
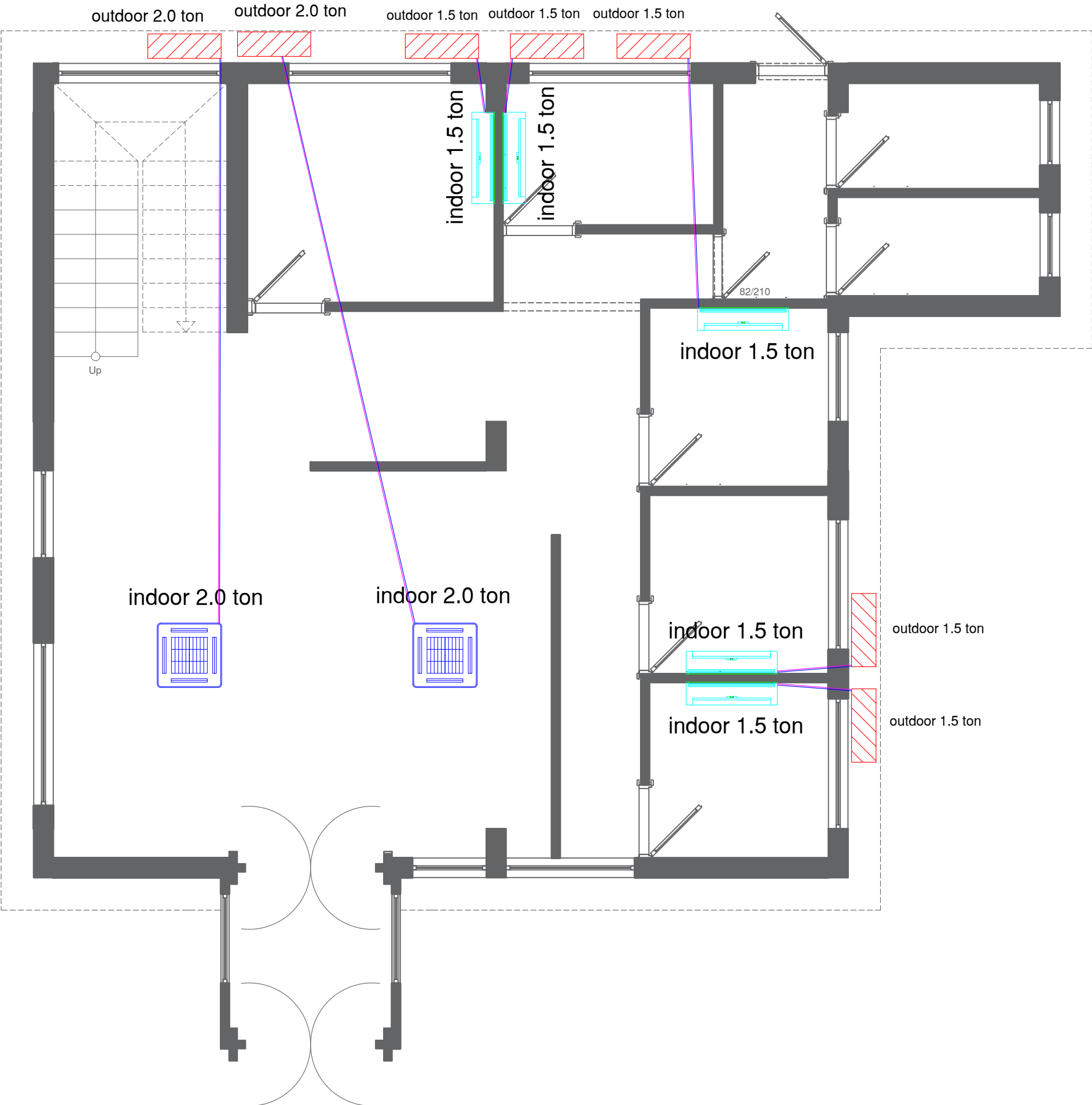
EMPLOYMENT CENTRE BUILDING PROJECT

MECHANICAL DRAWINGS

Basrah - Iraq

Dec. 2023





NOTES:



Ceiling Mounted



Wall Mounted



Outdoor Unit

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:



APPROVED:

HOME For Engineering Consultancy

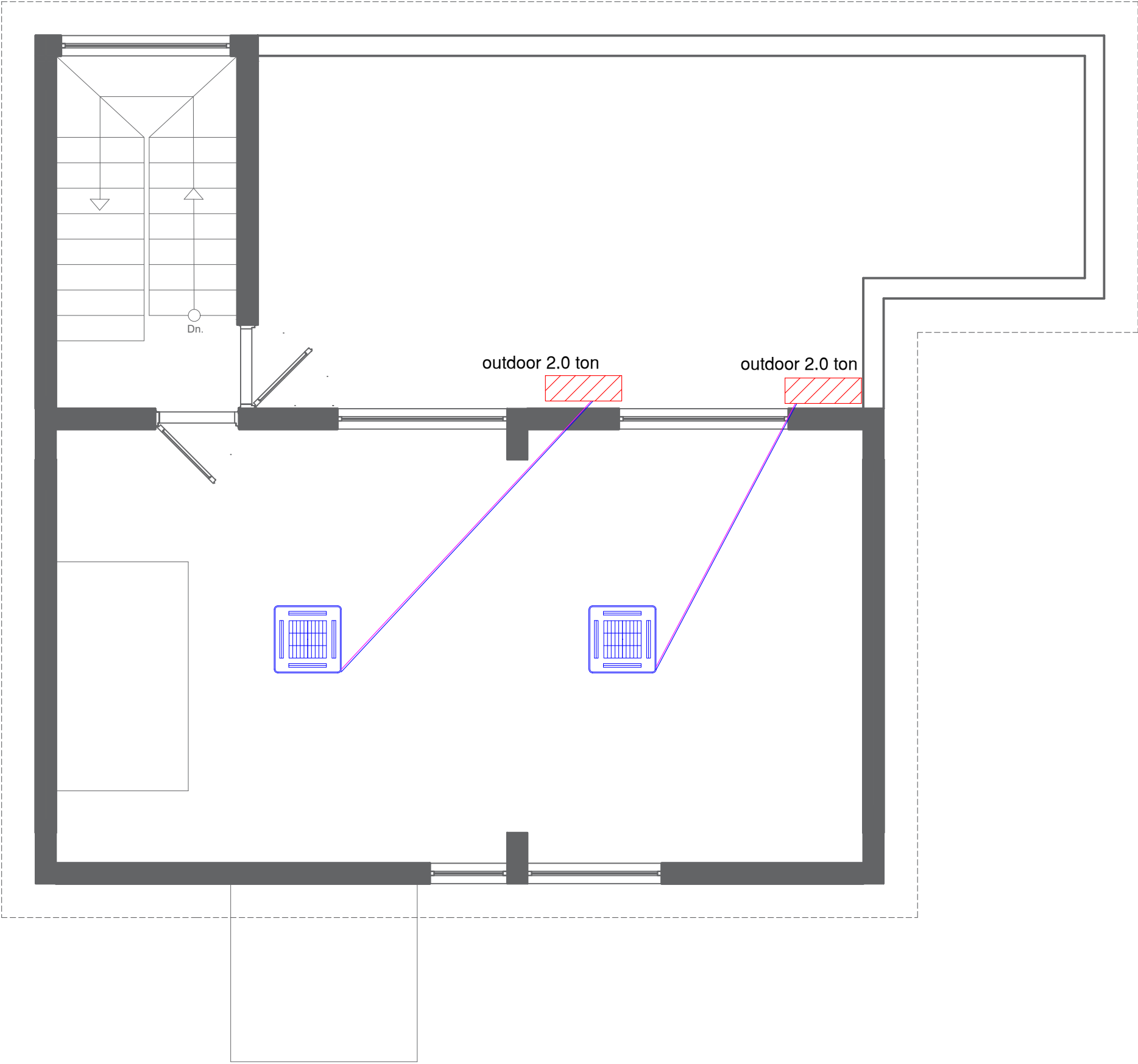
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Ground Floor Split Units

SHEET NO. Mech. : 01

PROJECT NO.



NOTES:



Ceiling Mounted



Wall Mounted



Outdoor Unit

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sdaq Raza Mzban

DRAWN:
Sdaq Raza Mzban

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

DATE: 10/12/2023

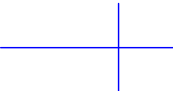
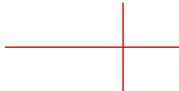
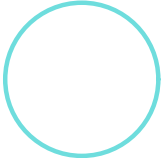
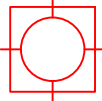
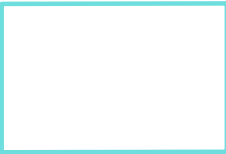
SHEET NAME: First Floor Split Units

SHEET NO. Mech. : 02

PROJECT NO.



LEGEND

Symbol	Discribsion	Symbol	Discribsion
	Water Tank		Pipe 6" external & 4" internal
	Boiler		Pipe 6" external & 4" internal
	Main cold pipe from water tank to down 1"		Manhole (60*60*60)cm
	Cold Water		Manhole (60*60*60)cm
	Hot Water		Cesspool
	Main hot pipe from boiler to down 1"		Floor Drain
	Water Pump		Septic Tank
	Booster pump		



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sdq Raza Mzban

DRAWN:
Sdq Raza Mzban

CHECKED:



APPROVED:
HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

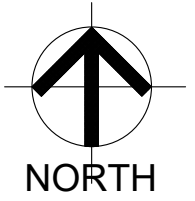
SHEET NAME: Legend Sewerage

SHEET NO. Mech. : 03

PROJECT NO.

General Notes:

- *All water distribution materials are GI.pipe for (external)and UPVC . pipe for internal.
- *All sewer pipes should be UPVC.
- *All works should be according to IPC and IPSD.
- *All pipes passing under slab must be glued or mechanically connected .
 - *Pressure at tapping points designed to be not less than 1.5bar.
- * All water piping should be routed parallel to the building lines..
- * All water pipes should be of approved type with a good quality.
- * All electrical water heaters should be installed according to manufacturers instructions, they should contain a pressure relief valve and a check valve in the hot pipe line.
- * Lower all the Toilets and slope the floors to drain all waters into the toilets.
- * Manhole covers shall be cast iron.
- *Two pumps with hydro-pneumatic tanks shall be installed and shall be equipped with a pressure sensing switch .Pumps shall be designed and installed for outdoor use.
- * Tapes should be installed at all Toilet, floor drain and sink locations.
- * Pipes passing through concrete or walls and floors should be protected against external corrosion by protective sheathing and painting with three layers of ant-rust paint.
- * Distance Between 2 Manholes (6-8)M.
- * Minimum Distance Between Septic Tank and Building (3)M.
- * Each Boiler (160,60) litter & tanks are 2000 litter.
 - * All Main Pipe From Water Tank To Down By Pipe 1" Galvanized Iron Pipe (EXTERNAL).



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

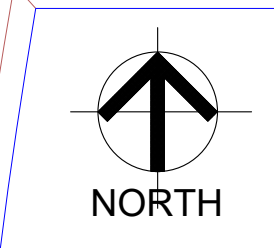
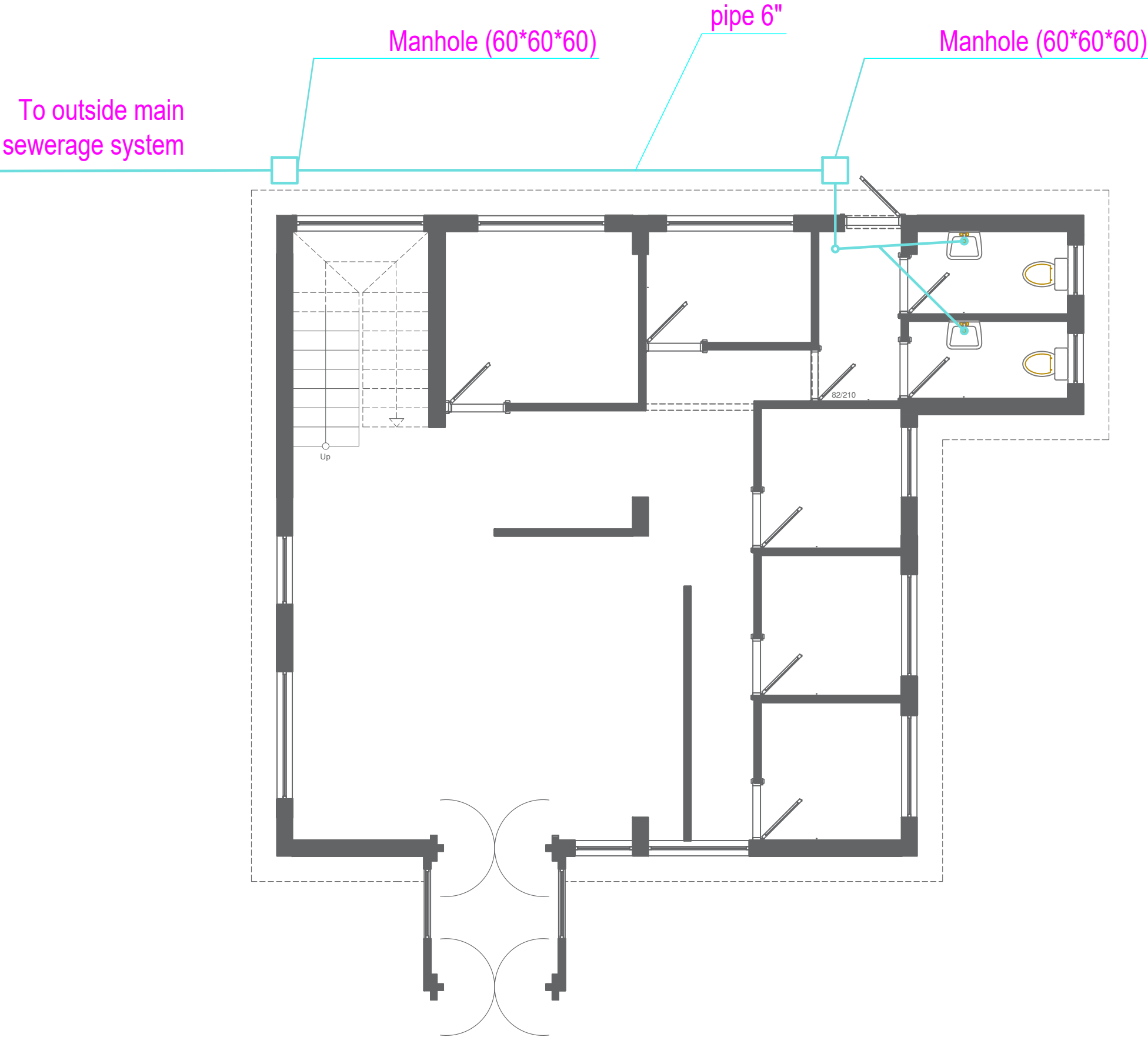
DATE: 10/12/2023

SHEET NAME: General Notes

SHEET NO. Mech. : 04

PROJECT NO.





NOTES:

- Pipe 6" external & 4" internal
- Pipe 6" external & 4" internal
- Manhole (40*40*40)cm
- Manhole (40*40*40)cm
- Cesspool
- Septic Tank
- Drain

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

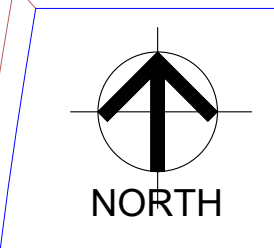
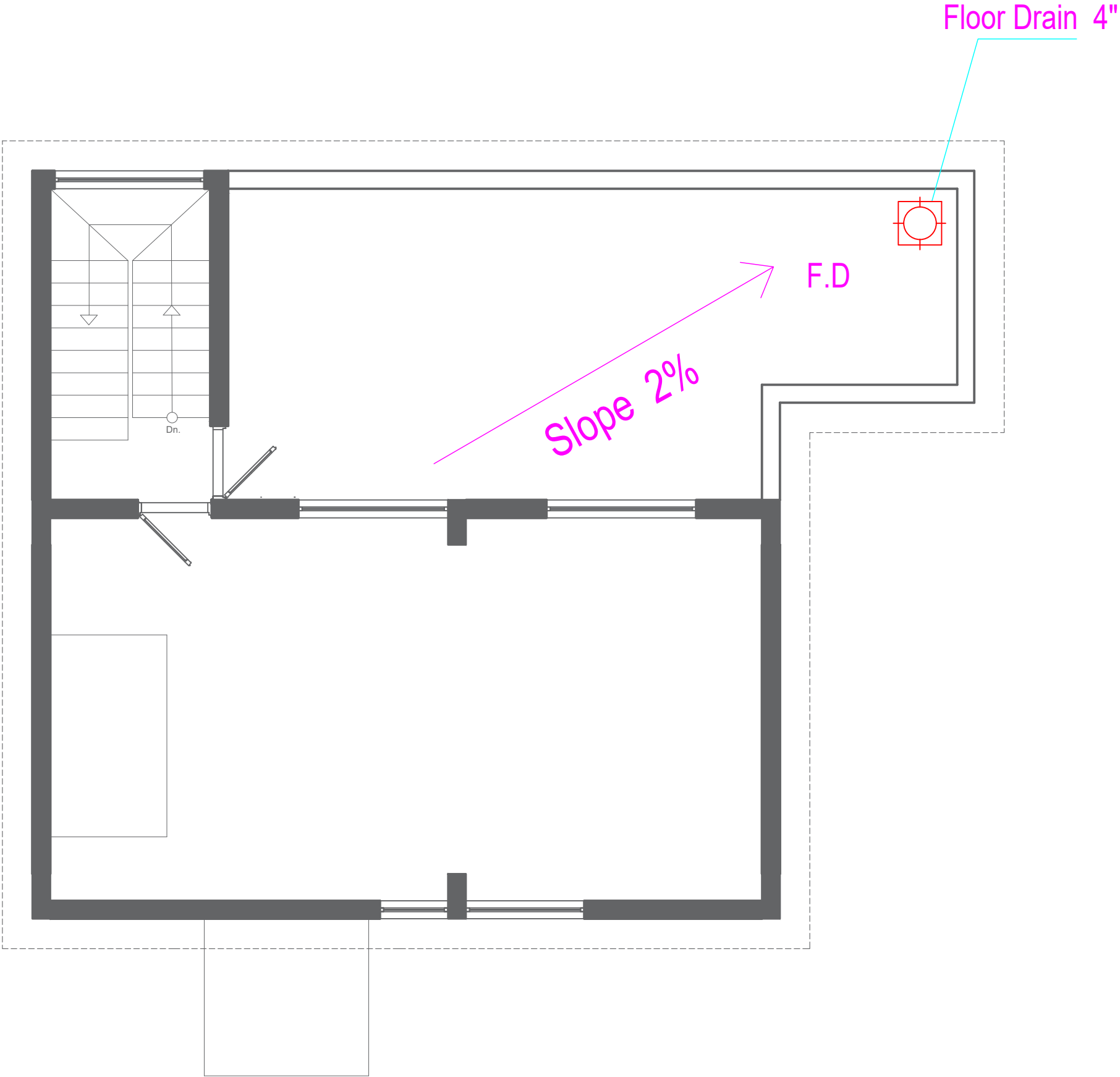
DATE: 10/12/2023

SHEET NAME: Ground F. Sewerage System

SHEET NO. Mech. : 05

PROJECT NO.





NOTES:

- Pipe 6" external & 4" internal
- Pipe 6" external & 4" internal
- Manhole (40*40*40)cm
- Manhole (40*40*40)cm
- Cesspool
- Septic Tank
- Drain

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sdq Raza Mzban
DRAWN:
Sdq Raza Mzban
CHECKED:



APPROVED:
HOME For Engineering Consultancy

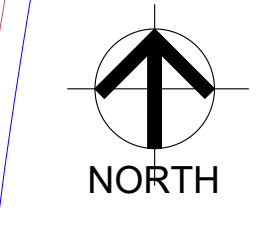
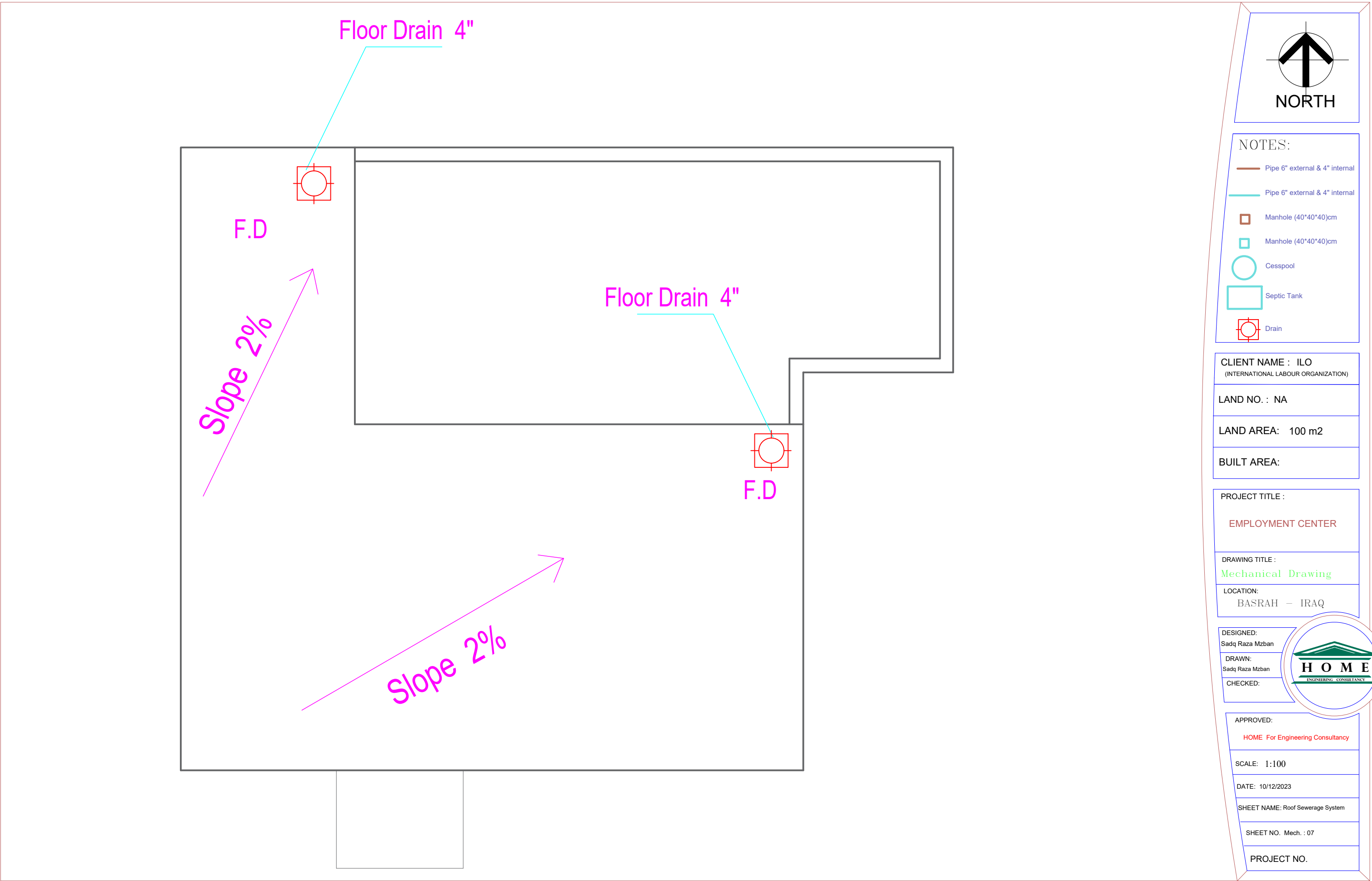
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: First F. Sewerage System

SHEET NO. Mech. : 06

PROJECT NO.



NOTES:

- Pipe 6" external & 4" internal
- Pipe 6" external & 4" internal
- Manhole (40*40*40)cm
- Manhole (40*40*40)cm
- Cesspool
- Septic Tank
- Drain

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sdq Raza Mzban

DRAWN:
Sdq Raza Mzban

CHECKED:



APPROVED:
HOME For Engineering Consultancy

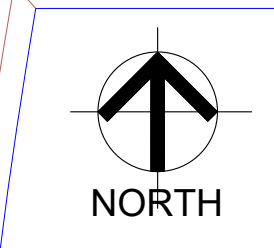
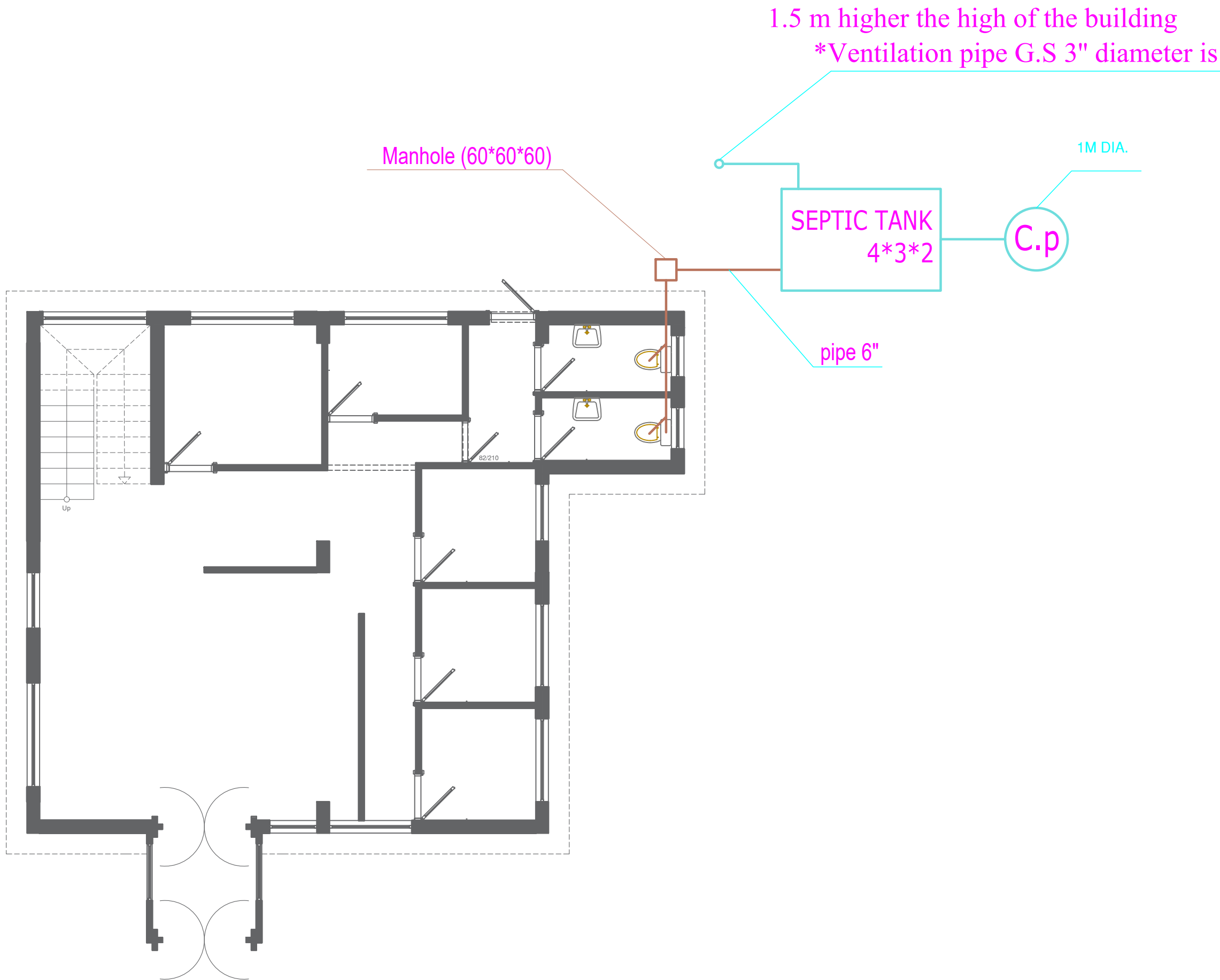
SCALE: 1:100

DATE: 10/12/2023

SHEET NAME: Roof Sewerage System

SHEET NO. Mech. : 07

PROJECT NO.



NOTES:

- Pipe 6" external & 4" internal
- Pipe 6" external & 4" internal
- Manhole (40*40*40)cm
- Manhole (40*40*40)cm
- Cesspool
- Septic Tank
- Drain

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH - IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: 1:100

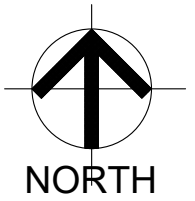
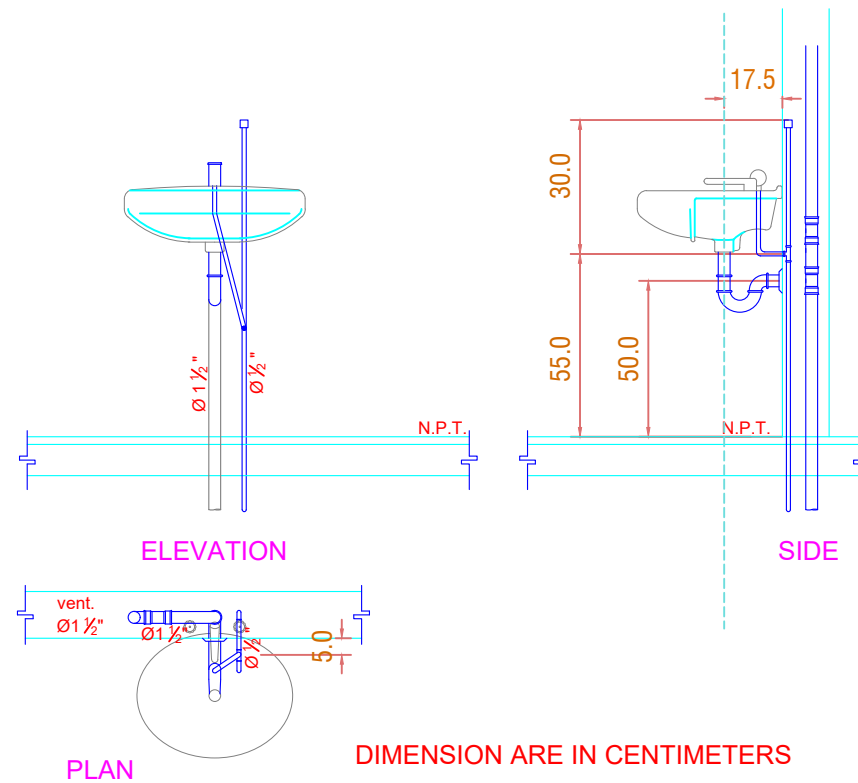
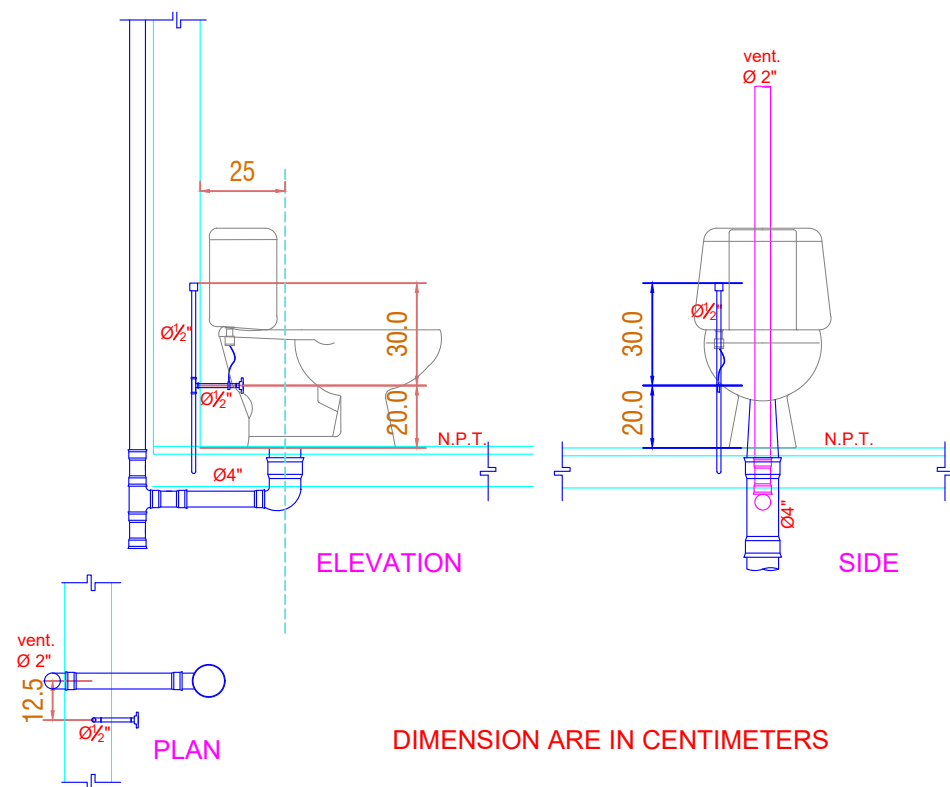
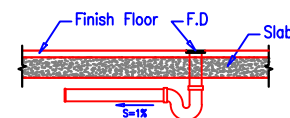
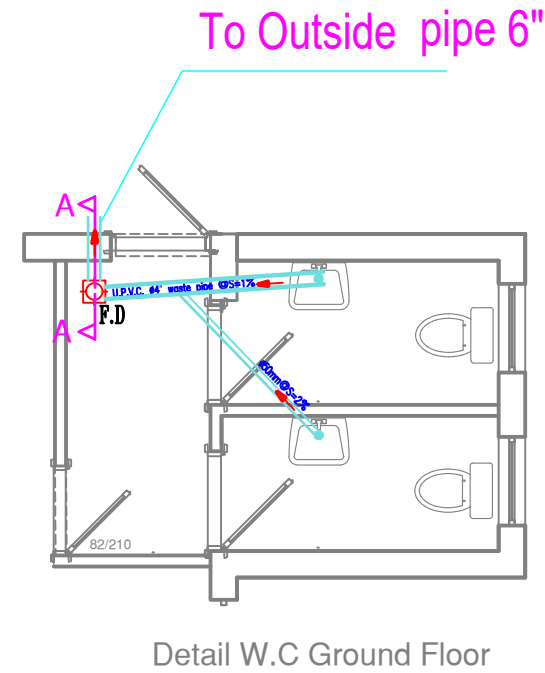
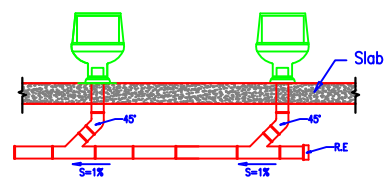
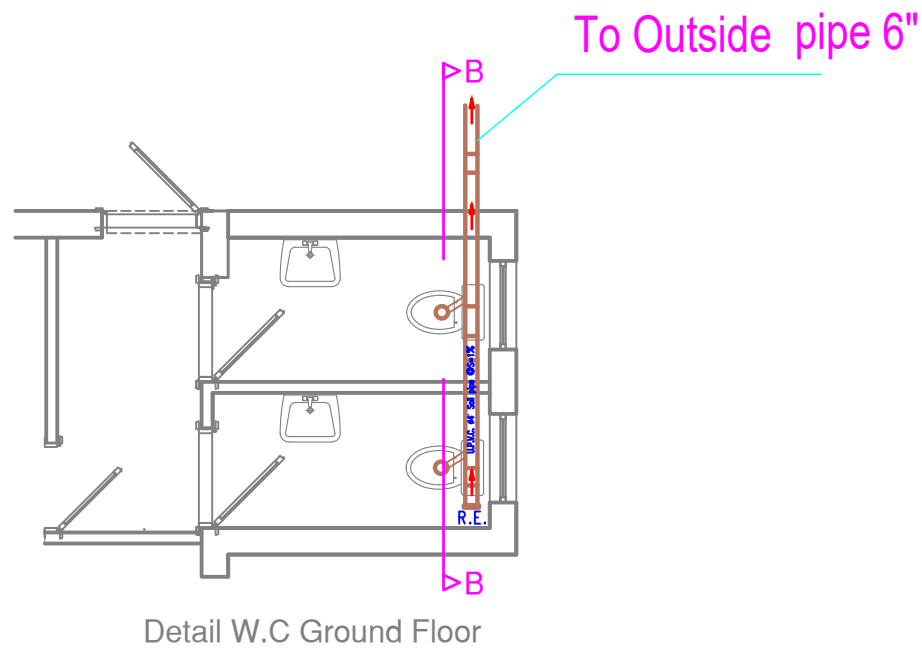
DATE: 10/12/2023

SHEET NAME: Ground F. Sewerage System

SHEET NO. Mech. : 08

PROJECT NO.





NOTES:

- Pipe 6" external & 4" internal
- Pipe 6" external & 4" internal
- Manhole (40*40*40)cm
- Manhole (40*40*40)cm
- Cesspool
- Septic Tank
- Drain

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH - IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

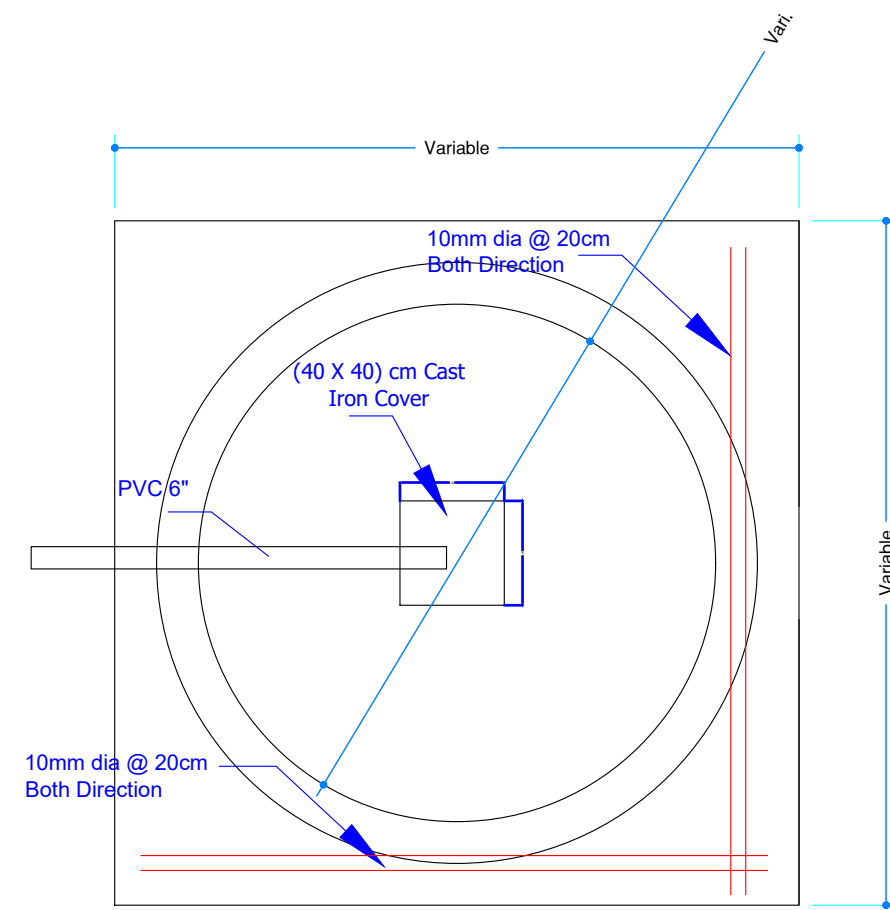
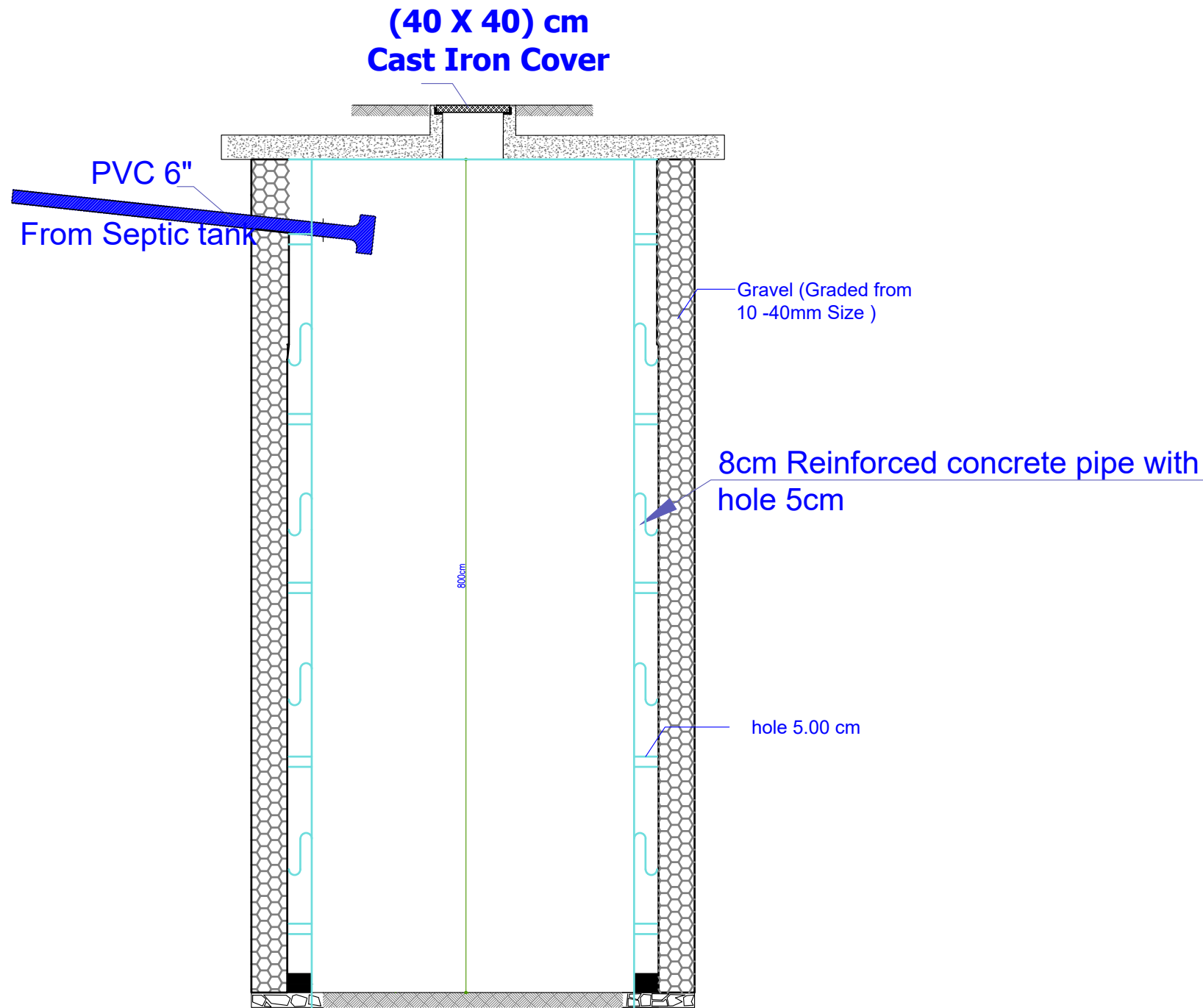
DATE: 10/12/2023

SHEET NAME:Sewerage System Details

SHEET NO. Mech. : 09

PROJECT NO.





Cesspool Detail



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sadq Raza Mzban

DRAWN:
Sadq Raza Mzban

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME:Cesspool Details

SHEET NO. Mech. : 10

PROJECT NO.

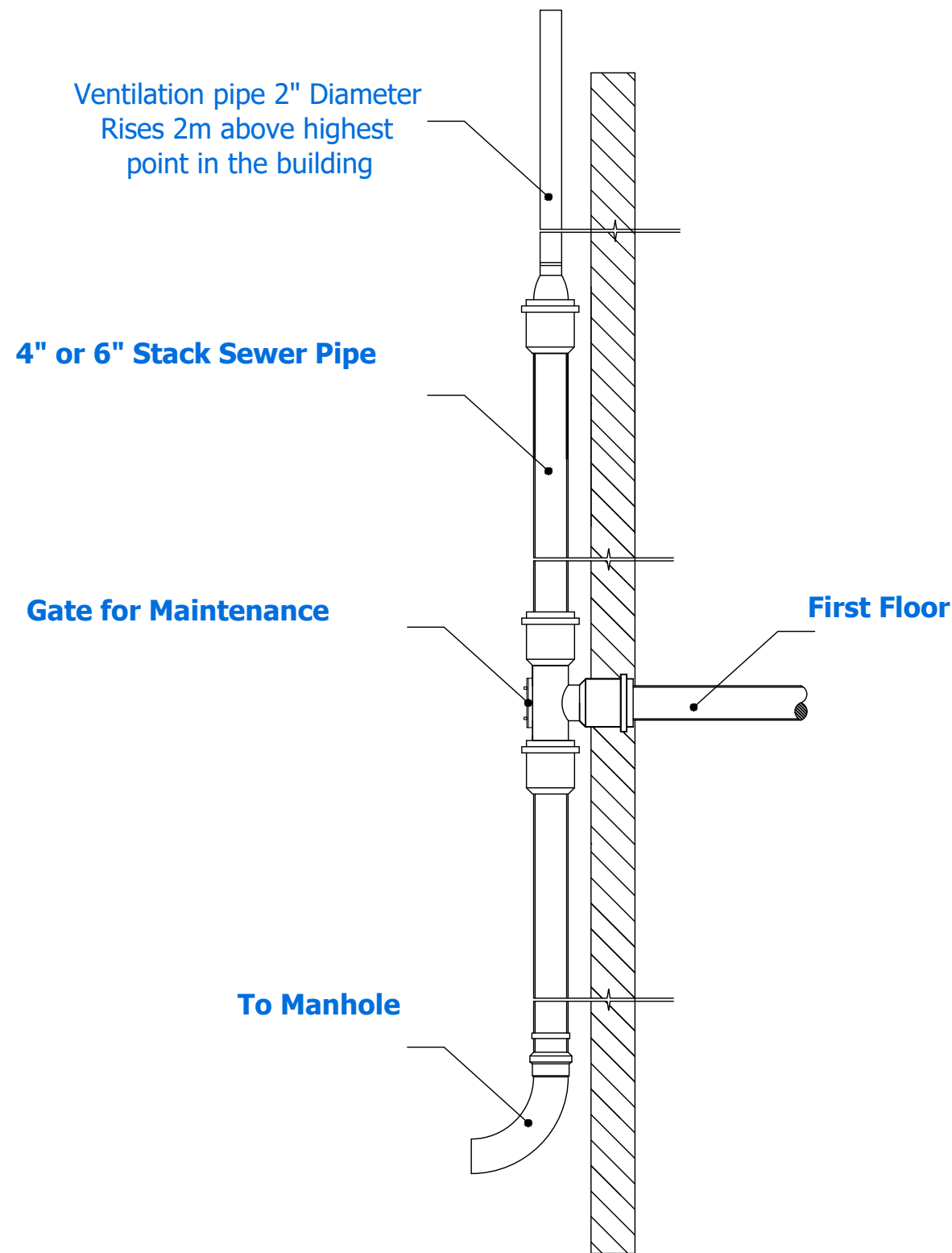




BUILT AREA:

PROJECT NO.





Section Through Stack Pipe



NOTES:

CLIENT NAME :ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sadq Raza Mzban

DRAWN:
Sadq Raza Mzban

CHECKED:



APPROVED:
HOME For Engineering Consultancy

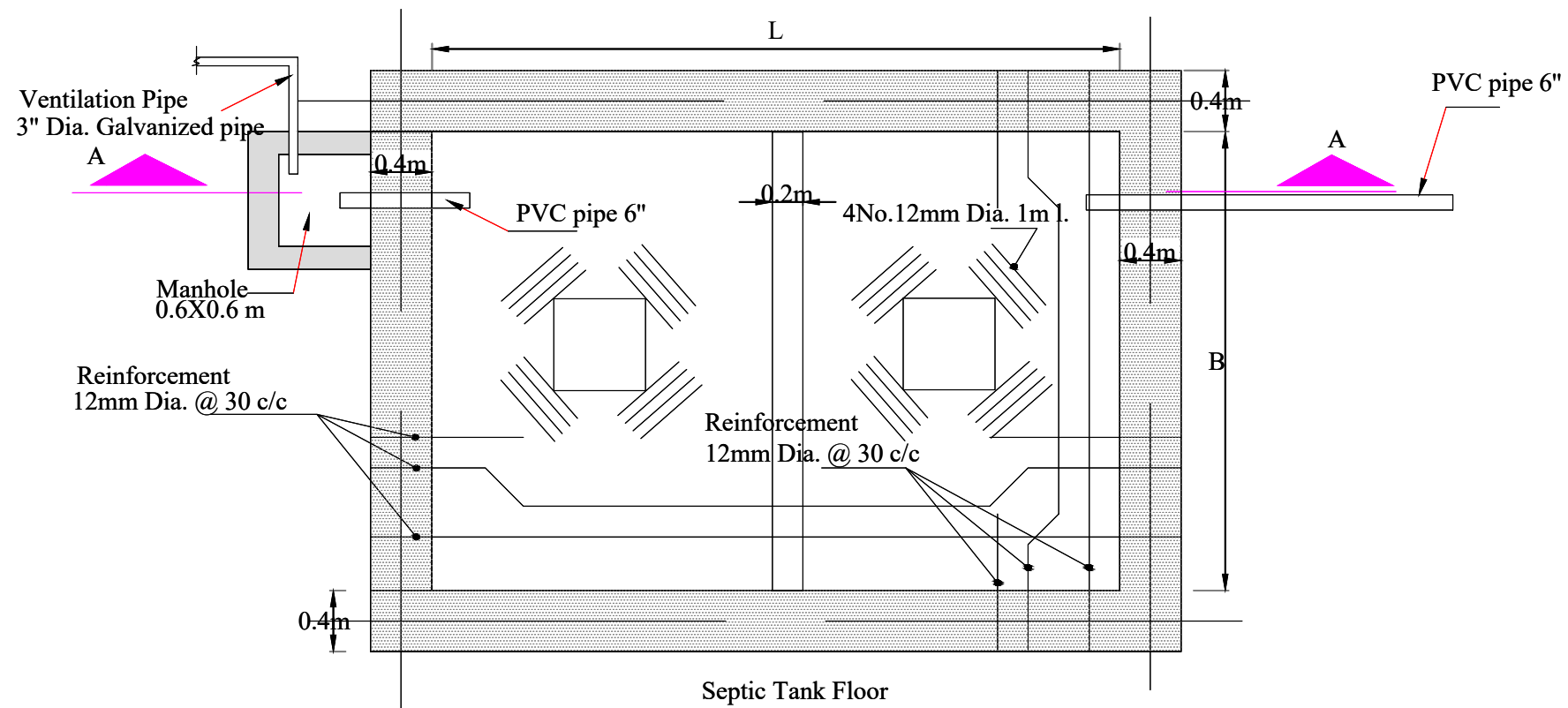
SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: Stack Pipe Details

SHEET NO. Mech.: 12

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m²

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH - IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

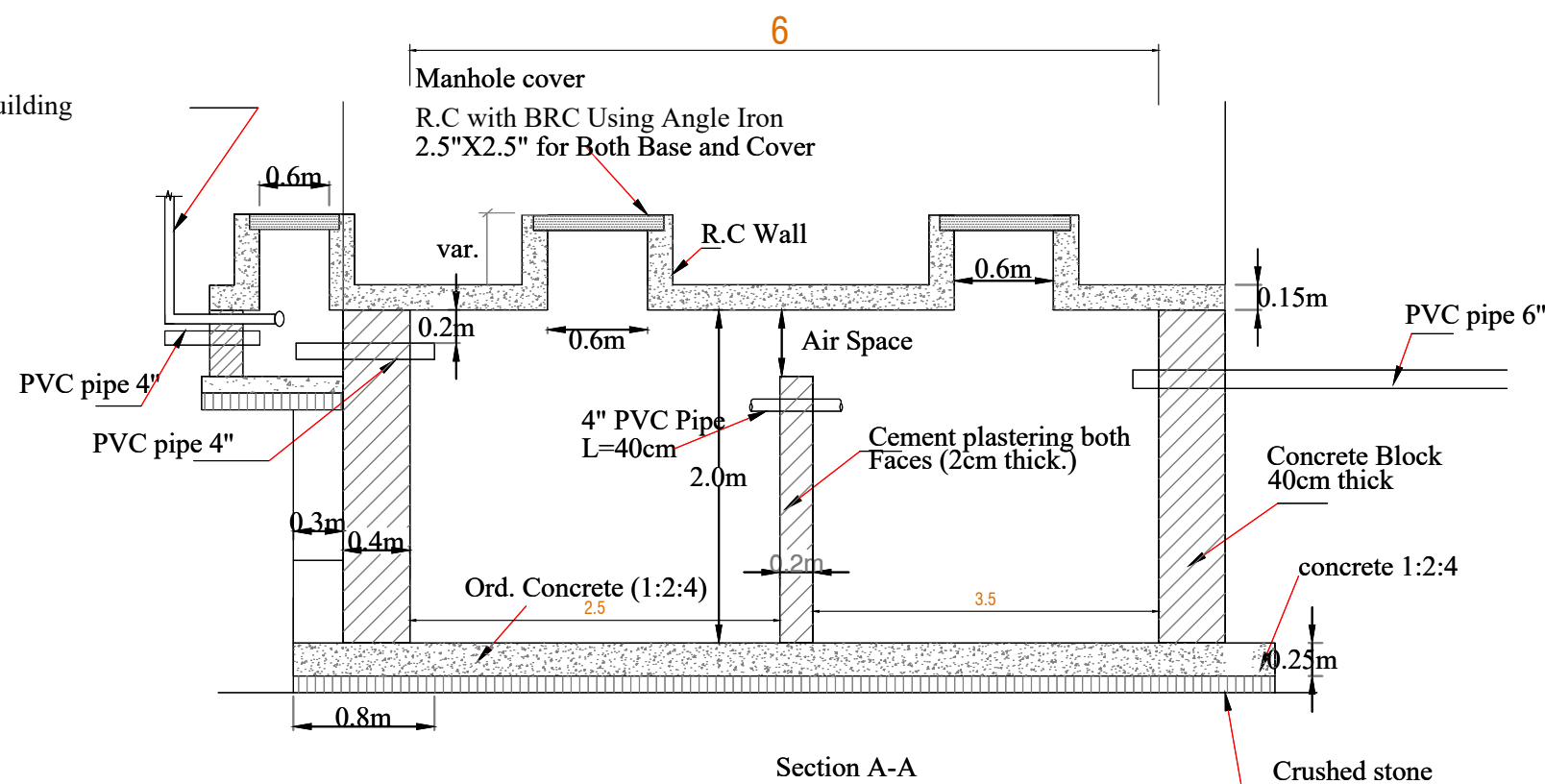
SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: Details

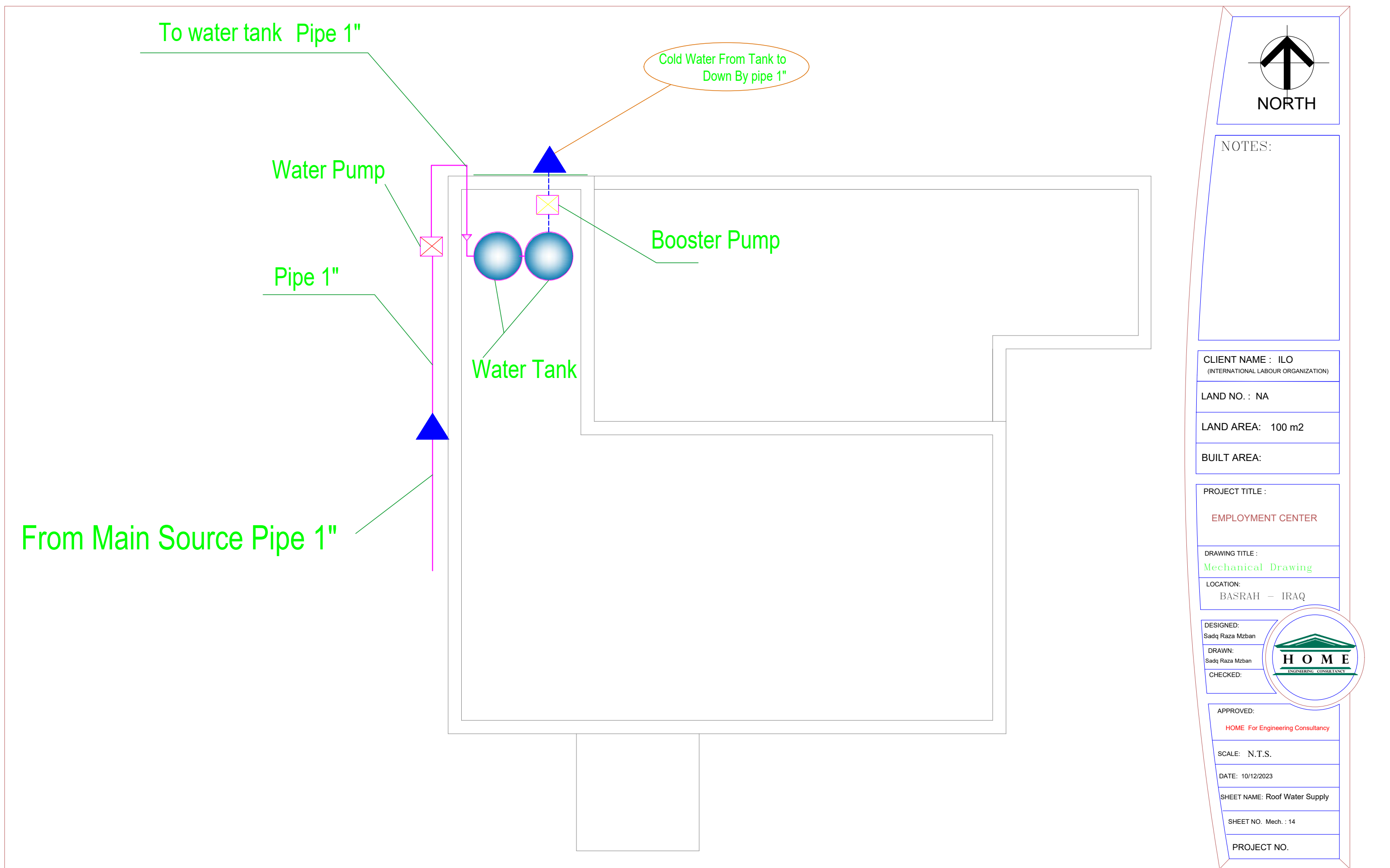
SHEET NO. Mech. : 13

PROJECT NO.



Standard Detail

*Ventilation pipe G.S 3" diameter is
1.5 m higher the high of the building



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

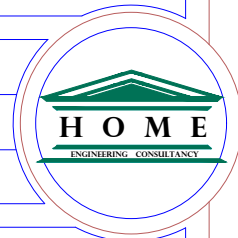
DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:



APPROVED:

HOME For Engineering Consultancy

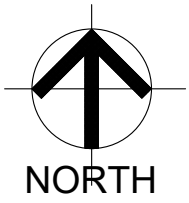
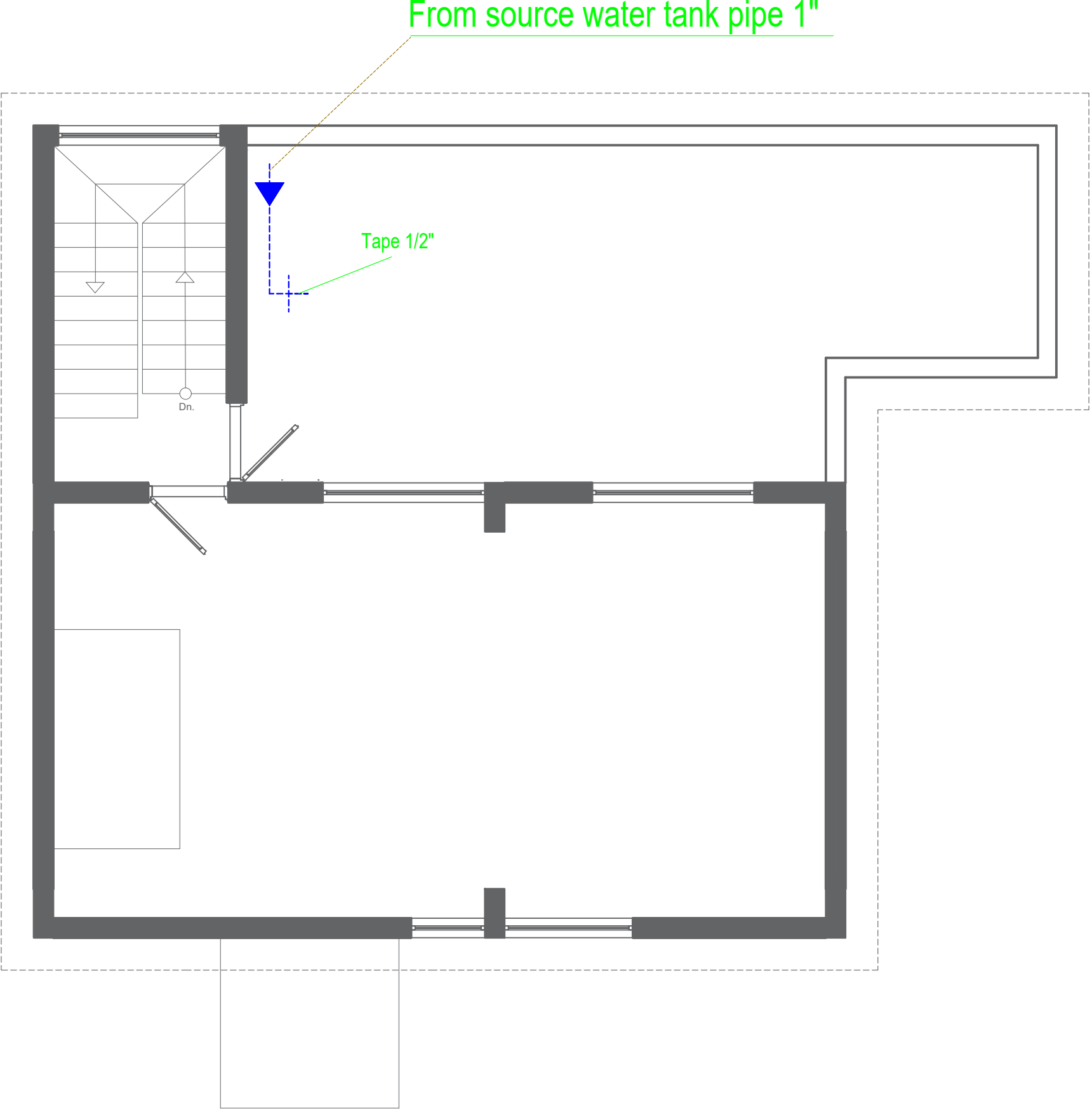
SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: Roof Water Supply

SHEET NO. Mech.: 14

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :
Mechanical Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Sdq Raza Mzban

DRAWN:
Sdq Raza Mzban

CHECKED:



APPROVED:
HOME For Engineering Consultancy

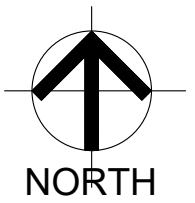
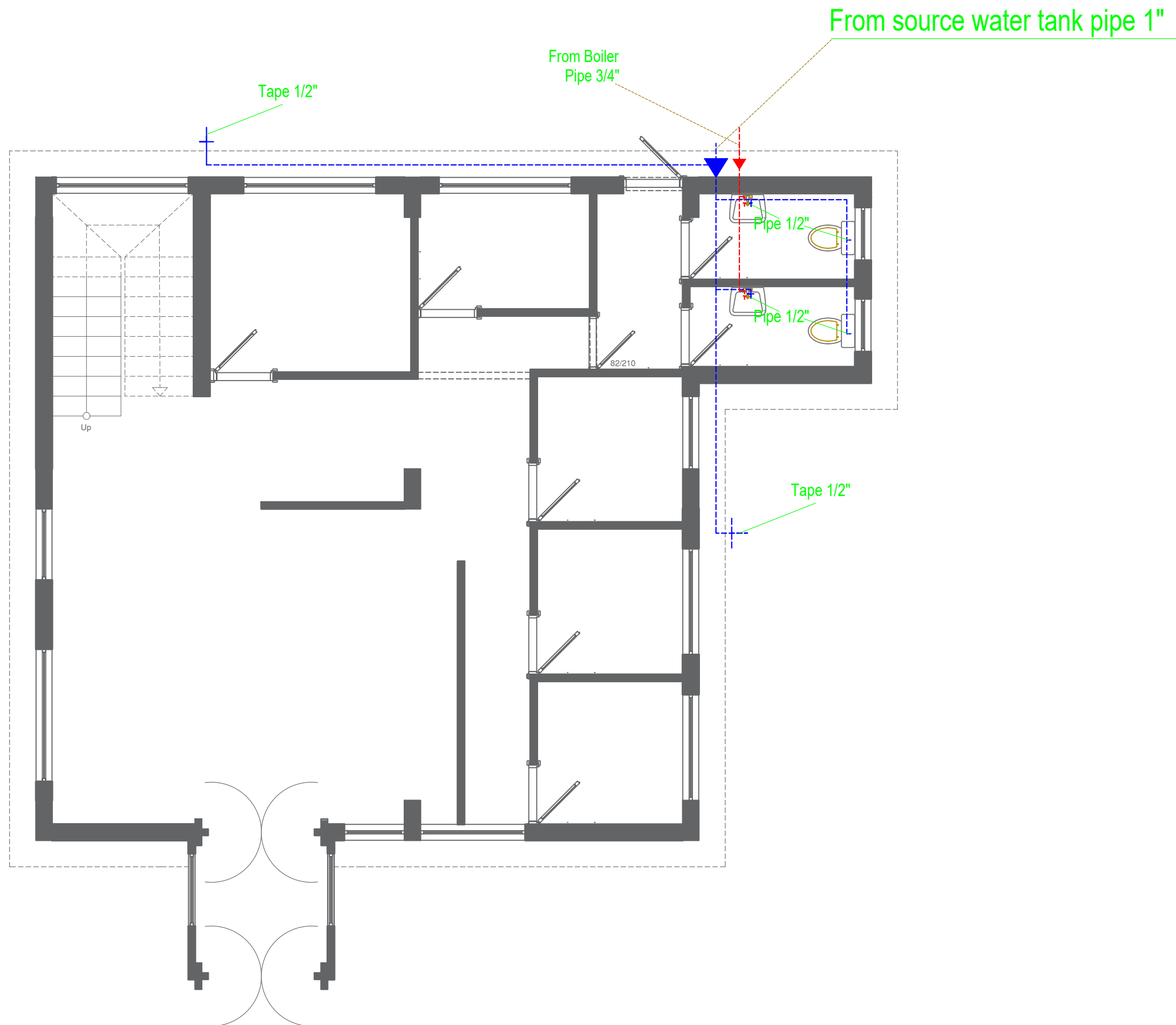
SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: First F. Water Supply

SHEET NO. Mech. : 15

PROJECT NO.



NOTES:

CLIENT NAME :ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

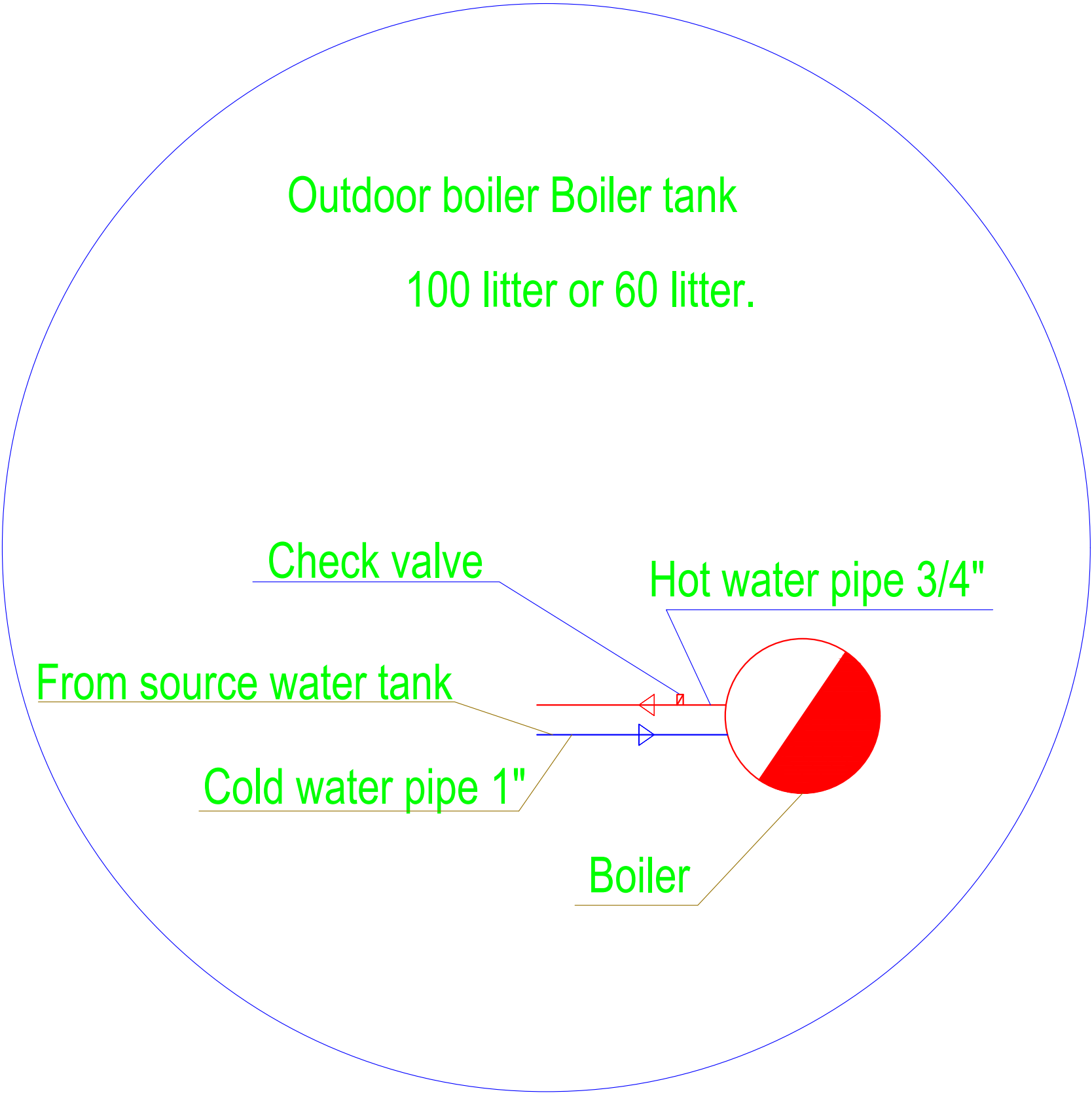
DATE: 10/12/2023

SHEET NAME:Ground F. Water Supply

SHEET NO. Mech. : 16

PROJECT NO.





Boiler detail



NOTES:

CLIENT Name : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA:

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Mechanical Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Sadq Raza Mzban

DRAWN:

Sadq Raza Mzban

CHECKED:



APPROVED:

HOME For Engineering Consultancy

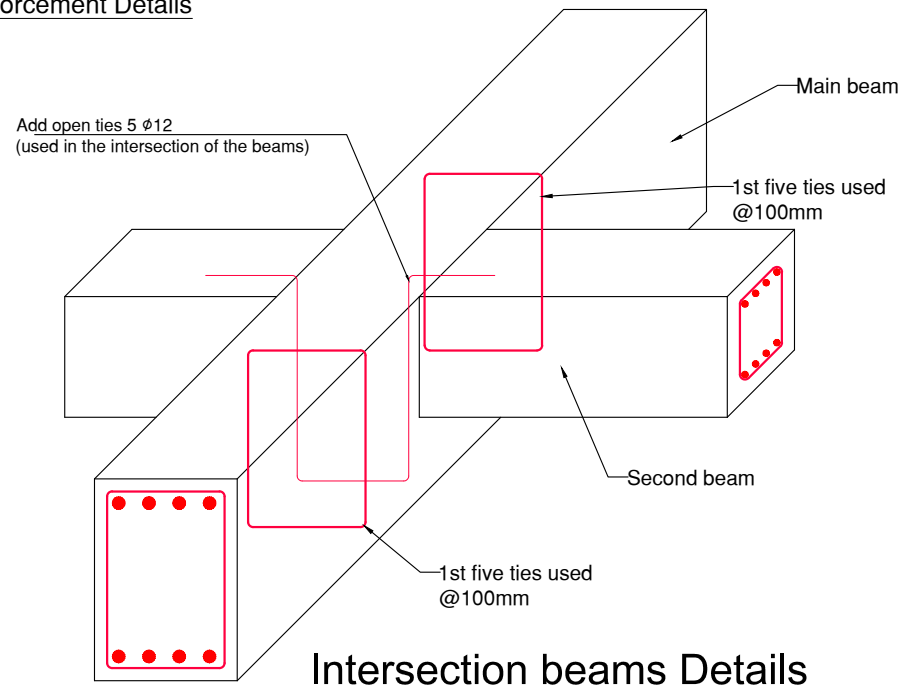
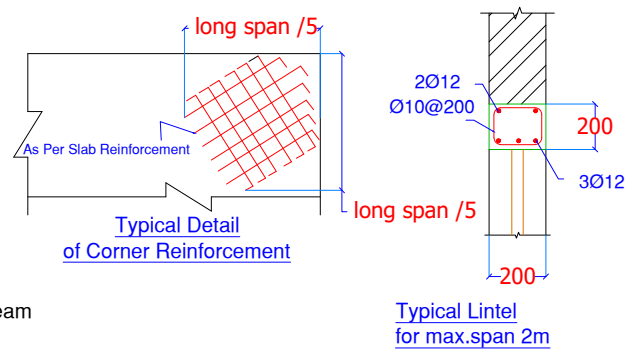
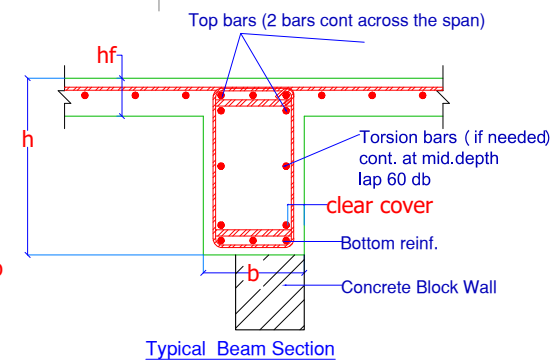
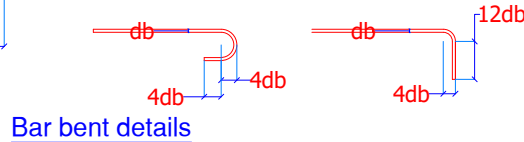
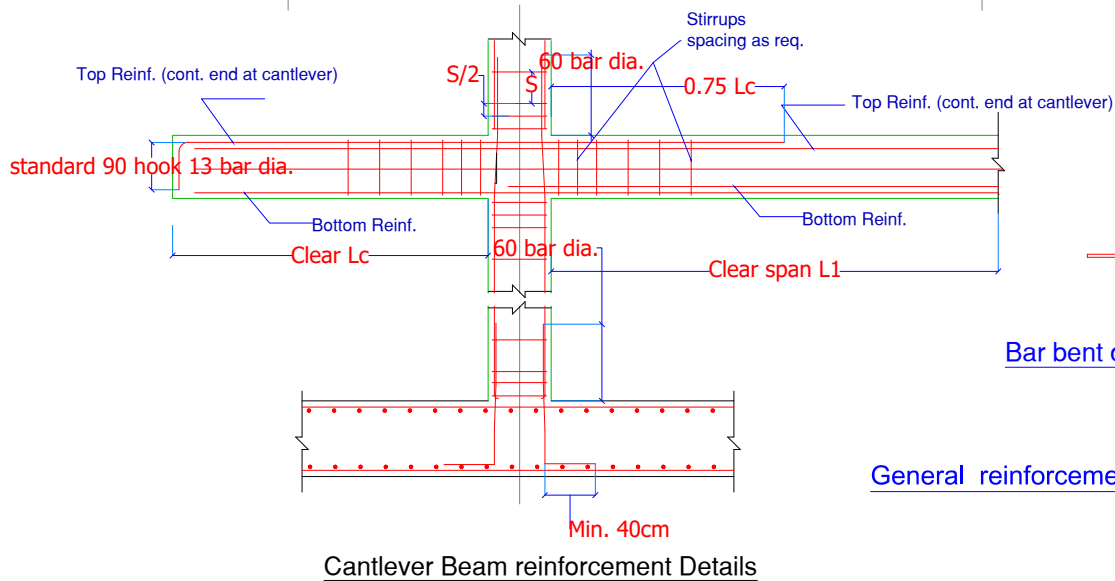
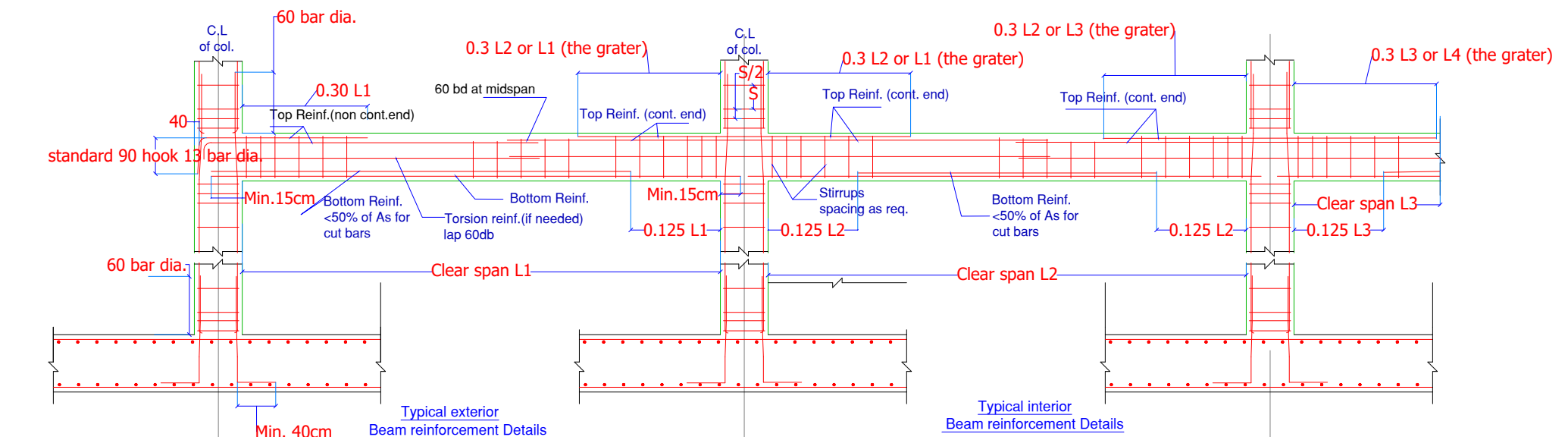
SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME:Boiler Detail

SHEET NO. Mech. : 17

PROJECT NO.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH - IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

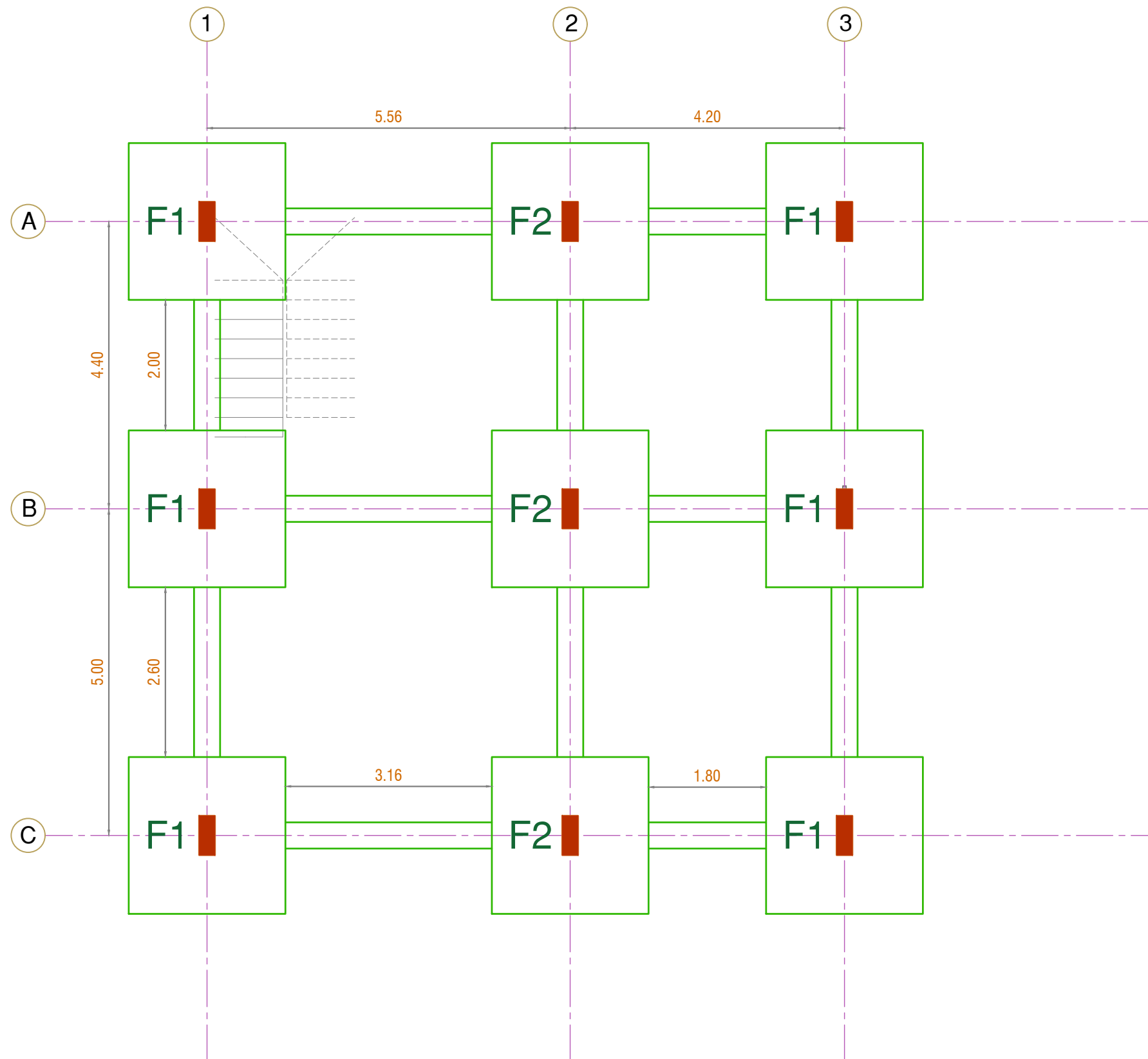
DATE: 10/12/2023

SHEET NAME: General Notes

SHEET NO. Structure 02

PROJECT NO.





Foundation Plan



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :
EMPLOYMENT CENTER

DRAWING TITLE :
Structural Drawing

LOCATION:
BASRAH – IRAQ

DESIGNED:
Jman Abdulrahman

DRAWN:
Jman Abdulrahman

CHECKED:

APPROVED:
HOME For Engineering Consultancy

SCALE: 1:100

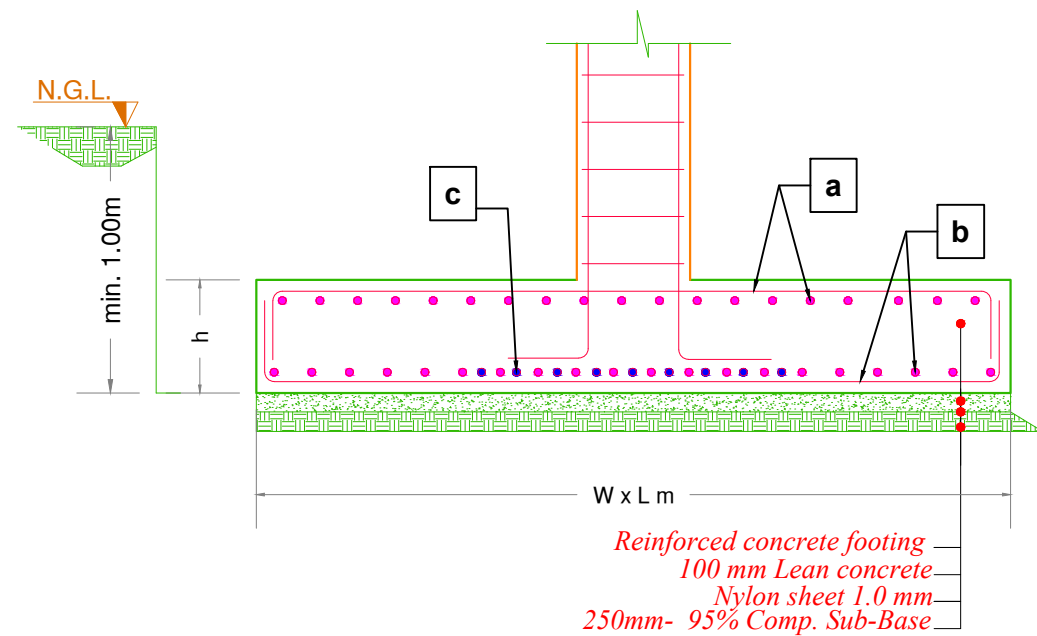
DATE: 10/12/2023

SHEET NAME: Footing Plan

SHEET NO. Structure 03

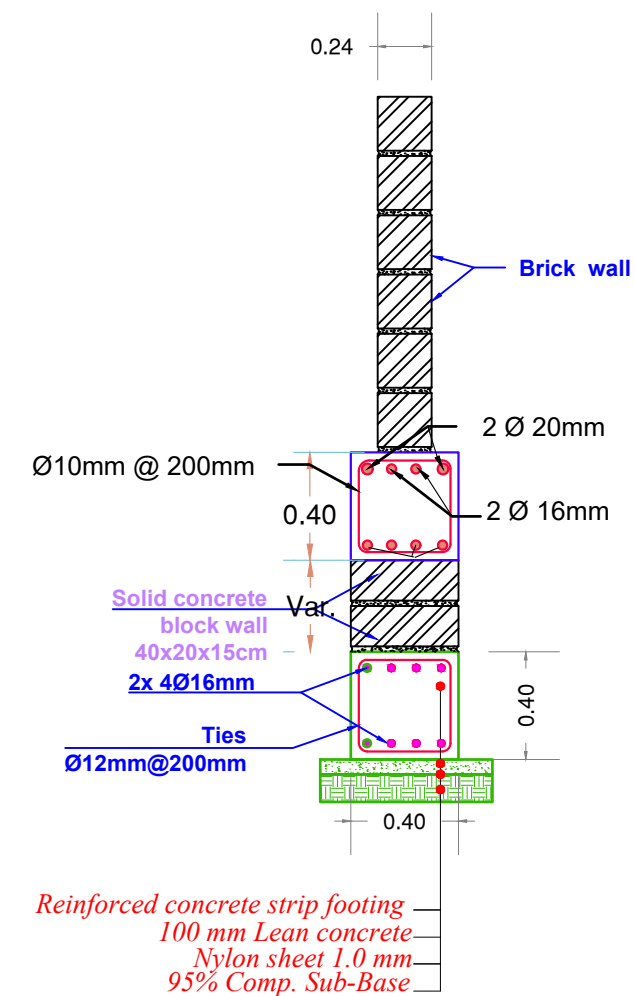
PROJECT NO.





Typical Section in Footing

Footing Rebar & Dimension Detail								
Footing Type	Code No.	Type of Rebar	Rebar Size (mm)	Rebar Spacing (mm)	Layer	Footing Dimension (m)	Footing Thickness (mm)	Footing rebar cover (mm)
F1	a	Continues Bar	12	250	Top	1.80 x 1.80 m	400	50mm for protect footing & 70mm for no protect footing
	b	Continues Bar	16	175	Bottom			
F2	a	Continues Bar	12	250	Top	2.00 x 2.00 m	400	50mm for protect footing & 70mm for no protect footing
	b	Continues Bar	16	150	Bottom			



Typical Section in Strip Footing



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

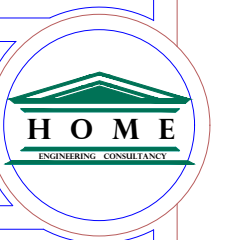
SCALE: N.T.S

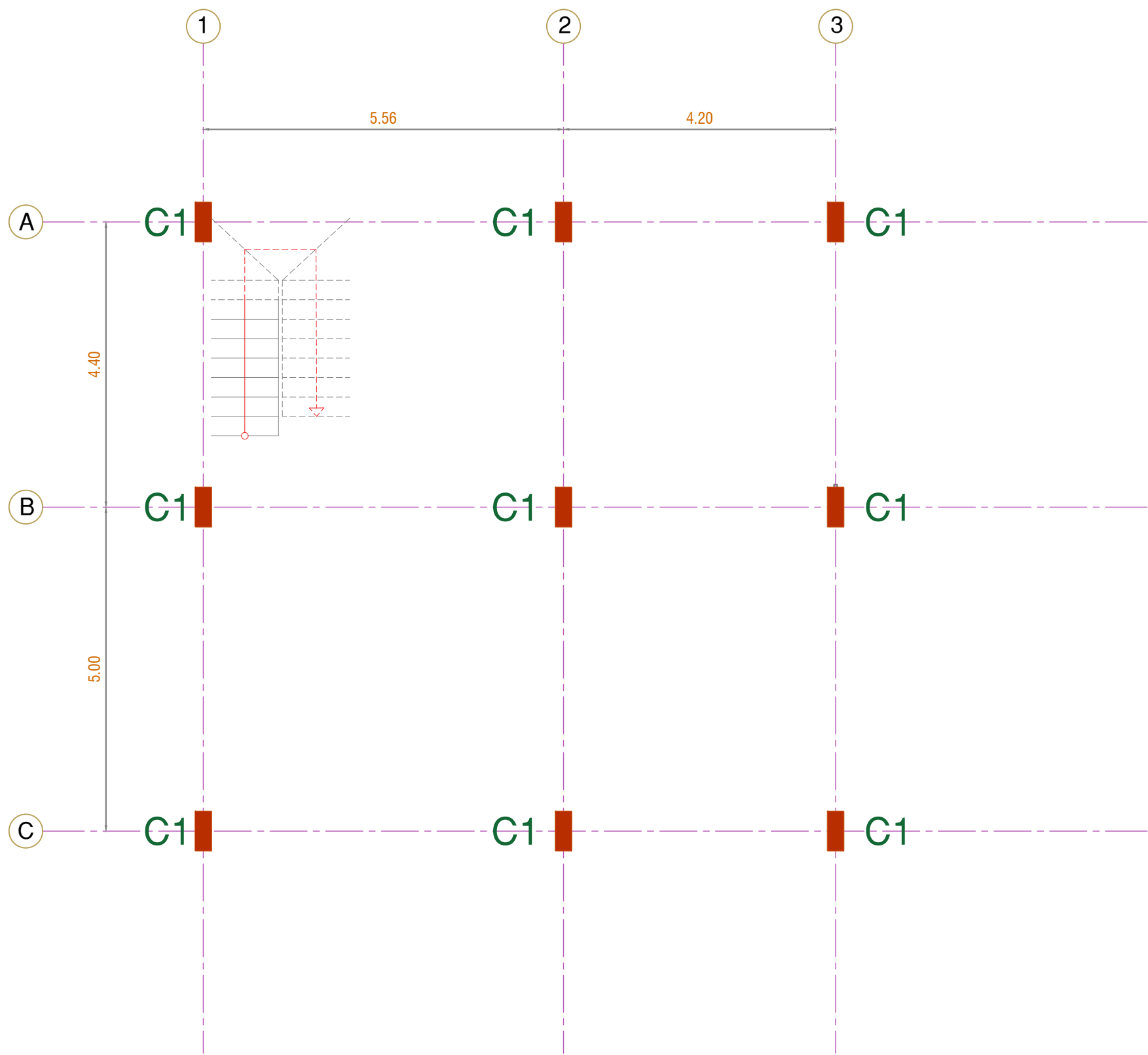
DATE: 10/12/2023

SHEET NAME: Footing Detail

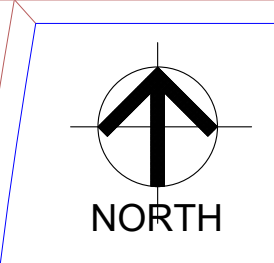
SHEET NO. Structure 04

PROJECT NO.





Ground Floor Column Plan

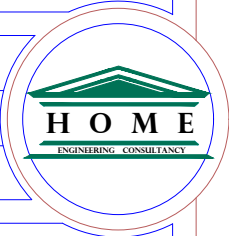


NOTES:

CLIENT NAME : ILO (INTERNATIONAL LABOUR ORGANIZATION)
LAND NO. : NA
LAND AREA: 100 m2
BUILT AREA: m2

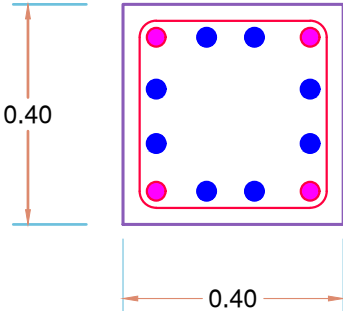
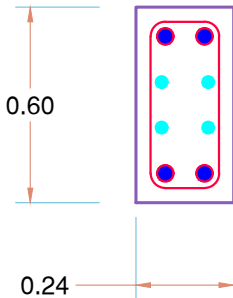
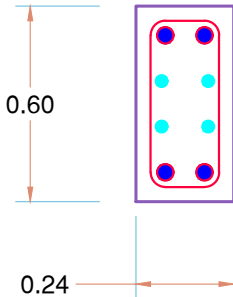
PROJECT TITLE :
EMPLOYMENT CENTER
DRAWING TITLE :
Structural Drawing
LOCATION:
BASRAH – IRAQ

DESIGNED:
Jman Abdulrahman
DRAWN:
Jman Abdulrahman
CHECKED:



APPROVED:
HOME For Engineering Consultancy
SCALE: 1:100
DATE: 10/12/2023
SHEET NAME: Ground Floor Column Plan
SHEET NO. Structure 05
PROJECT NO.

COLUMNS SECTION AND DETAILS

CODE No.	Column C1		
Floor	Shape	Longitudinal Rebar	Stirrups
Beneath F.F.L. level		4 Ø 25mm + 8 Ø 20mm	Ø 10mm @ 250mm (1st & last five @ 100mm)
Ground Floor		4 Ø 16mm + 4 Ø 12mm	Ø 10mm @ 200mm (1st & last five @ 100mm)
1st Floor		4 Ø 16mm + 4 Ø 12mm	Ø 10mm @ 200mm (1st & last five @ 100mm)



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

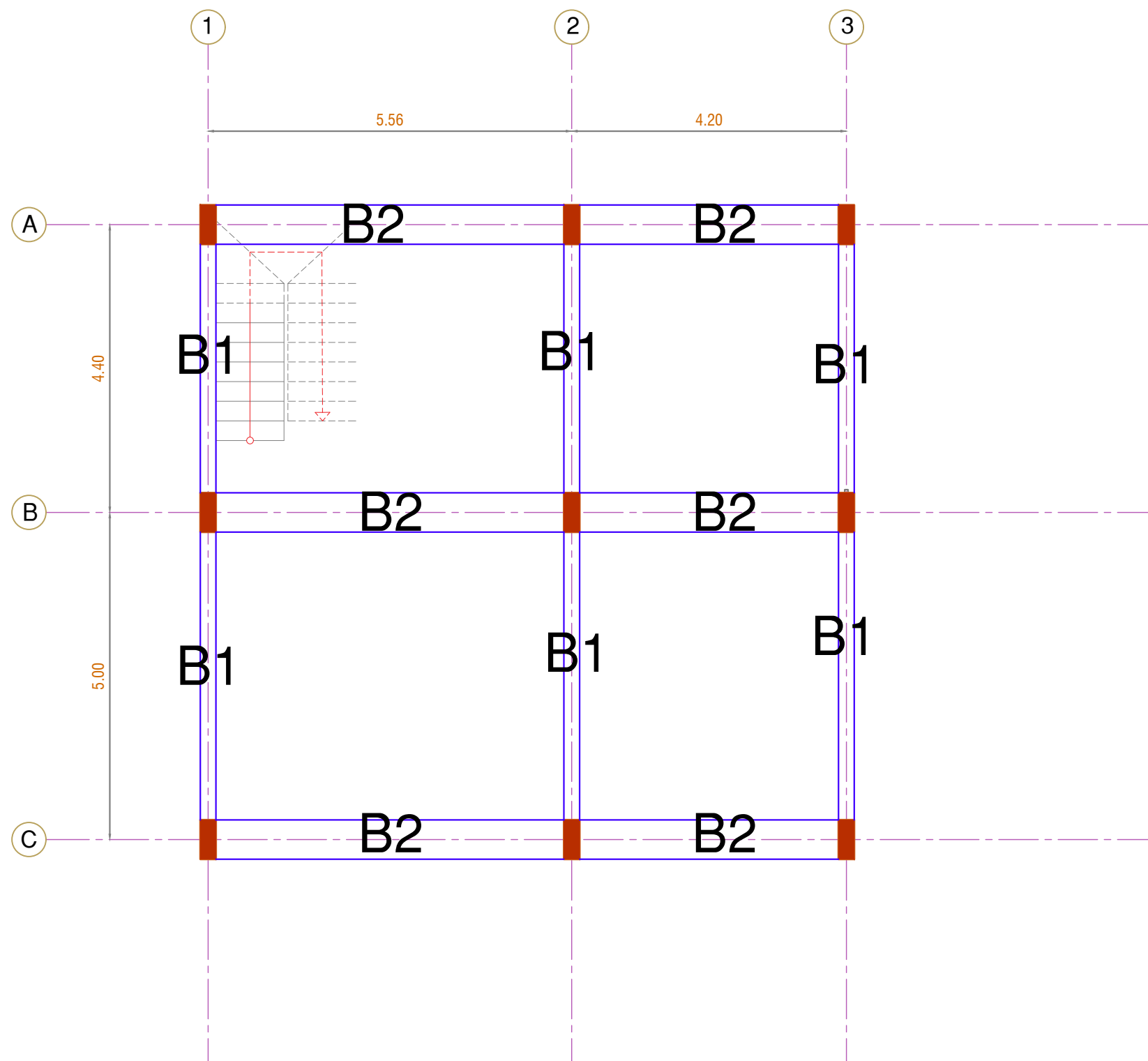
SCALE: N.T.S

DATE: 10/12/2023

SHEET NAME: Column Section & Details

SHEET NO. Structure 06

PROJECT NO.



Ground Floor Beam Plan



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

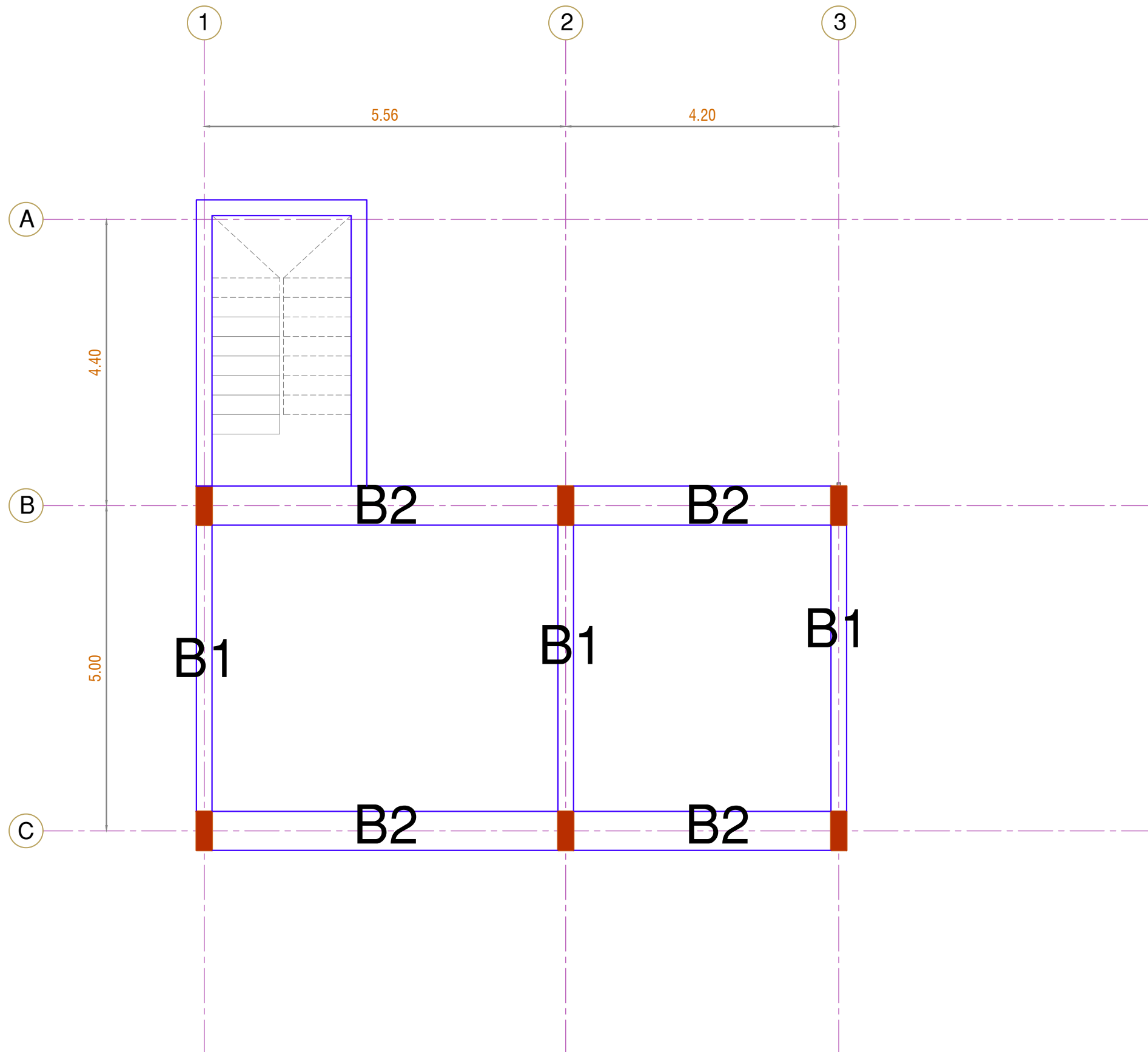
SCALE: 1:100

DATE: 10/12/2023

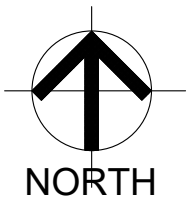
SHEET NAME: Ground Floor Beam

SHEET NO. Structure 07

PROJECT NO.



First Floor Beam Plan



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

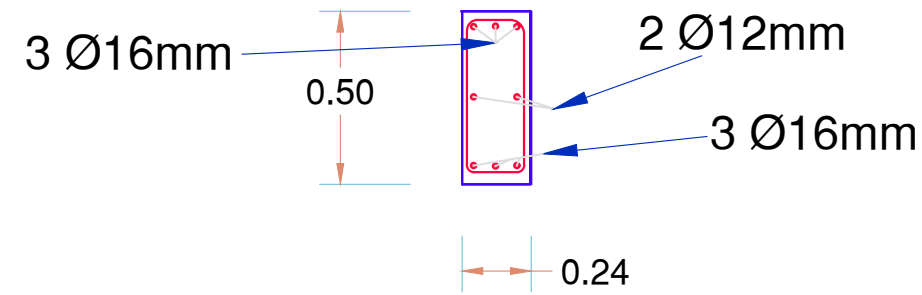
SCALE: 1:100

DATE: 10/12/2023

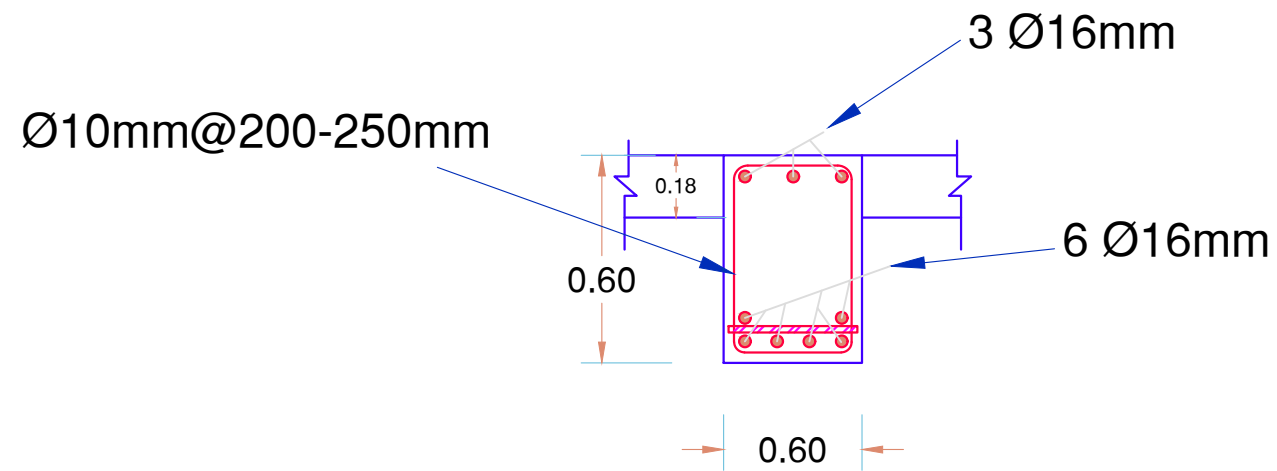
SHEET NAME: First Floor Beam

SHEET NO. Structure 08

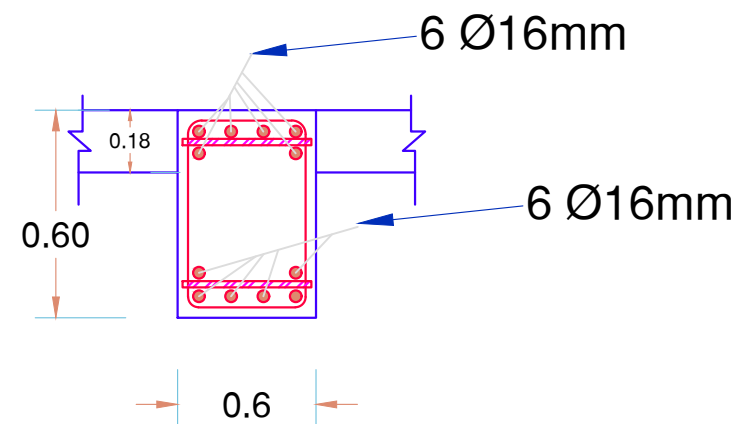
PROJECT NO.



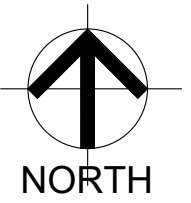
**Section in Beam B1
(for all length)**



**Section in Beam B2
(at mid span)**



**Section in Beam B2
(at exterior Support)**



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S

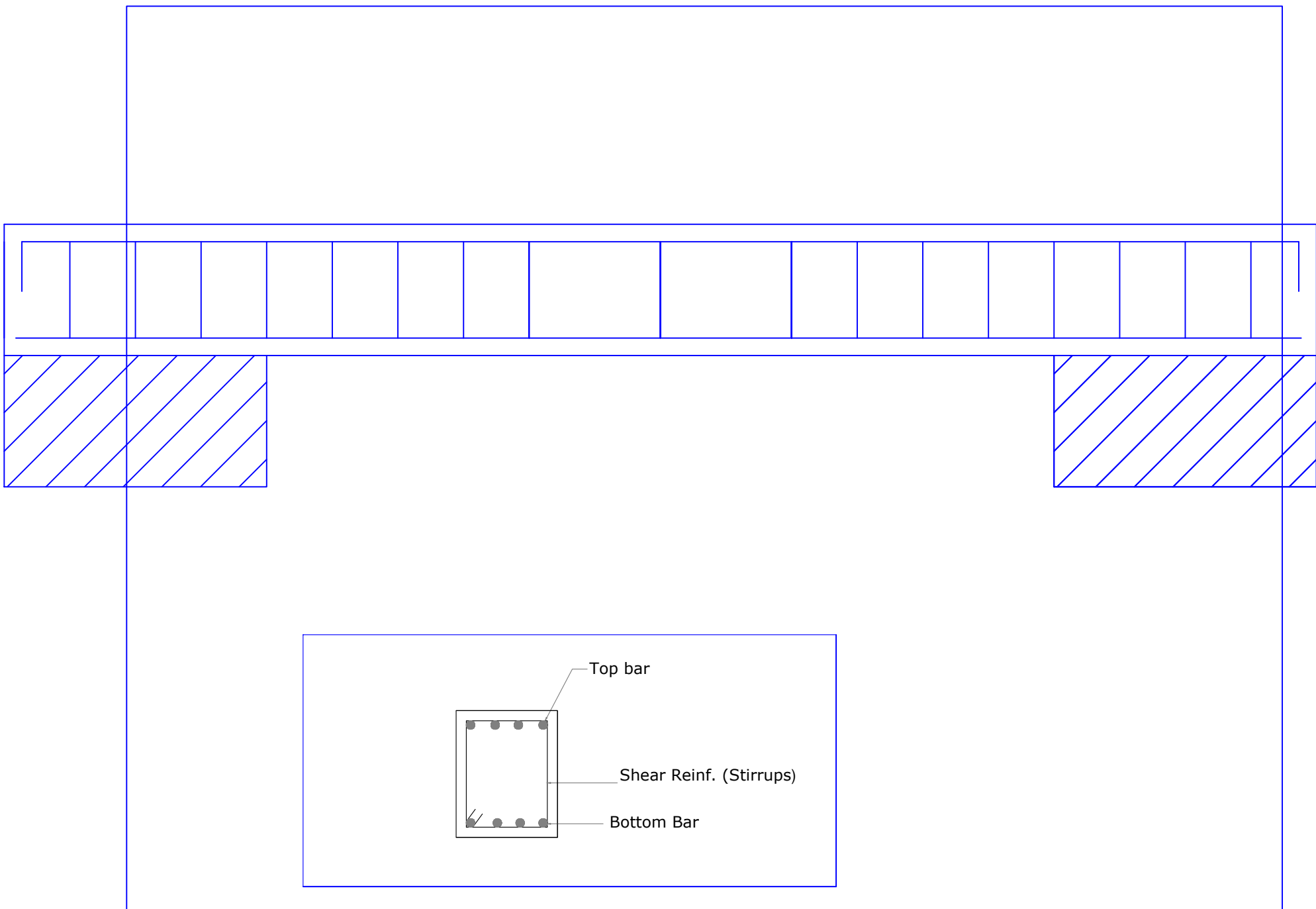
DATE: 10/12/2023

SHEET NAME: Beam Section & Details

SHEET NO. Structure 09

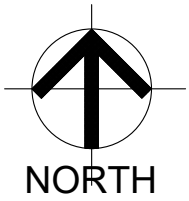
PROJECT NO.





Lintel Reinforcement Details

Type	Span(L)	Width (m)	Height (m)	Bottom Reinf.	Top Reinf.	Stirrups
1	<=3	0.2	0.3	3-12mm dia.	3-12mm dia.	10mm dia.@15cm c/c
2	>3	0.2	0.4	3-16mm dia.	3-16mm dia.	10mm dia.@20cm c/c



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S

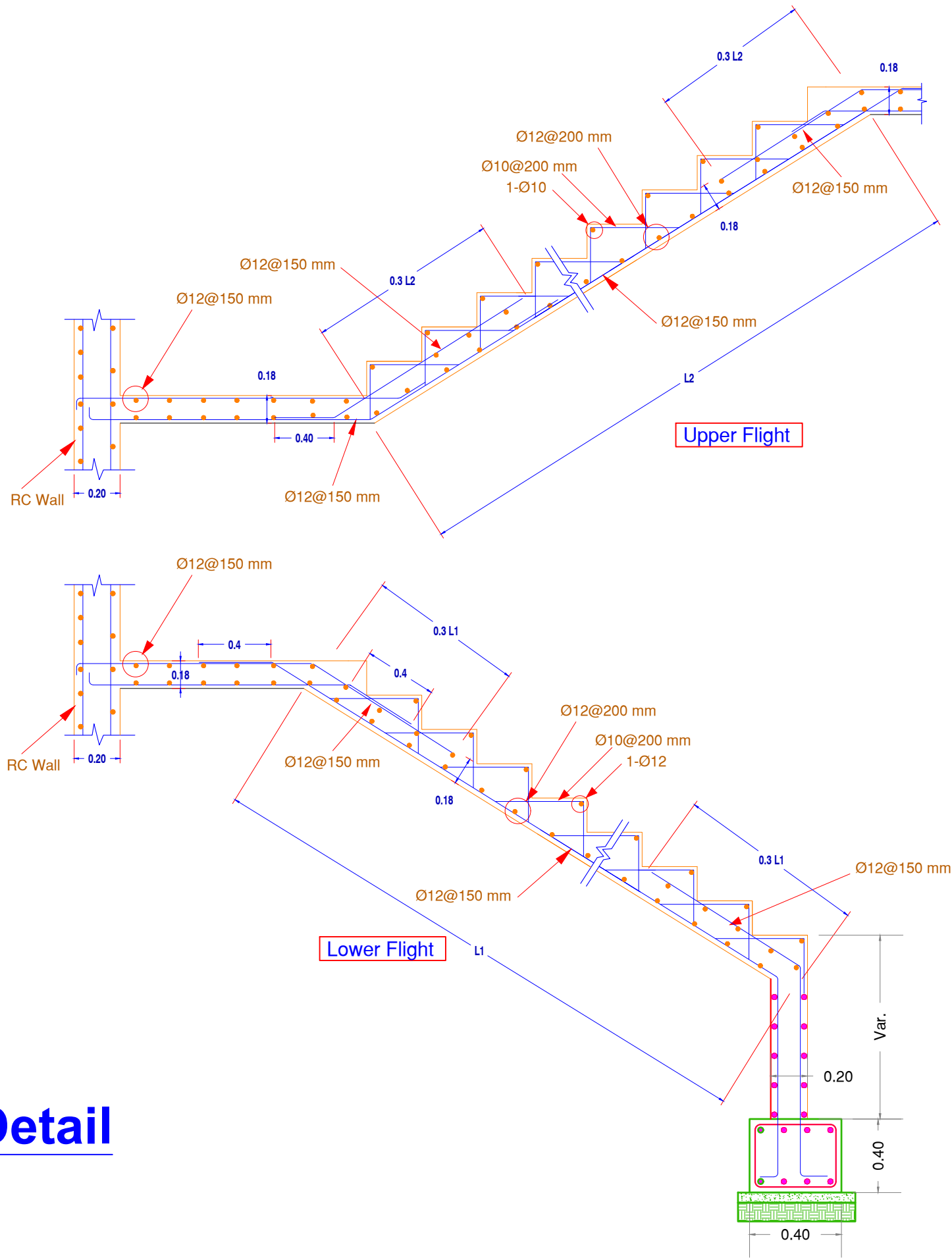
DATE: 10/12/2023

SHEET NAME: Lintils Detail

SHEET NO. Structure : 10

PROJECT NO.

Stair Detail



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:

APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S

DATE: 10/12/2023

SHEET NAME: Stair Detail

SHEET NO. Structure : 11

PROJECT NO.



EMPLOYMENT CENTRE BUILDING PROJECT

STRUCTURAL DRAWINGS

Basrah - Iraq

Dec. 2023



General Notes:

- 1-Check all dimensions , levels & details with Arch. , Mechanical , Electrical and Sanitary drawings.
- 2-All reinforced concrete shall meet req. of BS8110 & shall have a min. concrete 15cm cube compression strength = 35 N/Sqmm after 28 days for columns and = 30 Mpa for other members .
- 3-All steel bars used shall confirm to ASTM A615-86 & shall be special ductile steel deformed bars of yield strength not less than 412 N/sq.mm , Elongation not less than %18.
- 4-Mix design & casting of concrete should be so carried out that min. shrinkage is to occurred.
- 5-Use crushed gravel or rock in conc. & when req. use r.s.p admix. to produce 100-150 mm slump.
- 6-Lap all splices as specifically called for but at least 60 bar dia. , 90° degree hook 12 db, 135° degree hook for stirraps should be 6db and not less than 80 mm.
- 7-Lintels over all openings in interior partitions are to be of reinforced concrete with thickness equal to the wall thickness, depth shall be 20cm for spans up to 2m ,reinforced min. with 3F 12 + 1F 12 for each of 10 cm Increment of wall thickness .
- 8-In two-way solid slab, place short bars in the bottom layer .
- 9-For lean conc.use mix 1:3:6.
- 10-Concrete protection for inner beams & columns 3cm min. to main reinforcement. For external beams columns 4cm min. to main reinforcement.
- 11-Concrete protection for walls & slabs 2cm min. to main reinforcement with Portland cem.
- 12-Concrete protection for protected foundation 5cm min. to main reinforcement & when not protected against soil use 7cm to main reinforcement.
- 13-Min.Reinf.not shown (unless otherwise specified) shall have temperature steel consisting of F 10 @ 250mm perpendicular to main Reinf..
- 14- Design B.C of soil taken is 180 kN/sq.m at 1.0m to 1.5 m under N.G.L .
- 15- Use mec.vibrators for comp. of concrete works.
- 16-Use mec.vib.table compactors for soil , sub-base & hard-core comp.work.
- 17- For pipes,pumps & fittings, see relevant drawings.
- 18- Structural design criteria for the loads factors and its related codes are as follows:
- a) Roof live load = 0.96 Kn/m2 according to the ASCE7-02 code.
- b) Wind speed = 40 m/sec.according to the ASCE7-02 code.
- c) Dead Load
- Concrete Density = 24 kN/m3
- Weight of slab =h (m) x 24 kN/m3 = w (kN/m²) .
- Flooring Tile = 0.07 m x 20 kN/m3 = 1.4 kN/m²
- weight of partition less than 800kN/m3 .
- d) Live load according to table (4-1) sec.4 from ASCE-7-02.
- e) Seismic load - According to UBC 97 - z = 0.20 , I = 1.0 , R = 5.0
- 19) Reinforced concrete design according to code ACI-318 08

All drawings and details reserved. No part of drawings may be re - printed without permission in writing from the designer.



NOTES:

CLIENT NAME : ILO
(INTERNATIONAL LABOUR ORGANIZATION)

LAND NO. : NA

LAND AREA: 100 m2

BUILT AREA: m2

PROJECT TITLE :

EMPLOYMENT CENTER

DRAWING TITLE :

Structural Drawing

LOCATION:

BASRAH – IRAQ

DESIGNED:

Jman Abdulrahman

DRAWN:

Jman Abdulrahman

CHECKED:



APPROVED:

HOME For Engineering Consultancy

SCALE: N.T.S.

DATE: 10/12/2023

SHEET NAME: General Notes

SHEET NO. Structure 01

PROJECT NO.