



CONSTRUCTION OF WOMEN TRADE CENTER

(ELECTRICAL DRAWINGS)

KOHSAN DISTRICT, ISLAM QALA TOWNSHIP
Project Code : AFG 106-19/AFG-HELP-KOS-001
DATE: DEC,23, 2020



DESIGN AGENCY: PEDESTAL CONSTRUCTION COMPANY
EMAIL: pedestal.construction@gmail.com
phone: 0798-40-46-45

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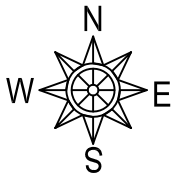
LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

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DRAWING TITLE
SITE PLAN

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	I-100	01

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DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

GENERAL NOTES

1 GENERAL:

- a. ALL DIMENSIONS ARE IN MILLIMETERS , UNLESS NOTED OTHERWISE.
- b. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.
- c. ANY DISCREPANCIES NOTICED IN THE DRAWING SHALL BE REPORTED TO CONSULTANT'S / OWNER'S REPRESENTATIVES PRIOR TO EXECUTION.
- d. THE NOTES IN THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS PERTAINING TO THE STRUCTURE.
- e. THE CONTRACTOR SHALL VERIFY ALL CHAINAGE, REDUCED LEVELS, CO-COORDINATES AND DIMENSIONS BEFORE WORK STARTS. IN CASE OF ANY DISCREPANCY, THE MATTER SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER-IN-CHARGE.
- f. NOTE FOR EXECUTION
ALL THE WORK SHOULD BE EXECUTED UNDER THE SUPERVISION OF OWNER'S ENGINEER AND HIS DECISION WILL PREVAIL REGARDING ANY MATTER RELATED TO INTERPRETATION OF DRAWINGS AND / OR SPECIFICATION.
- g. REQUIREMENTS FOR HOT WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 305R-99 BASED ON ACI 318-05 SECTION 5.13.
- h. REQUIREMENTS FOR COLD WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 306.1-90 BASED ON ACI 318-05 SECTION 5.12.
- i. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHOULD BE WITHIN LIMITATIONS SPECIFIED UNDER ACI-318-05 SECTION 6.3.

2 CODES AND SPECIFICATIONS

- ACI 318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
ASCE-7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
IBC-2009 INTERNATIONAL BUILDING CODE (2009 IBC CODE TO BE IMPLEMENTED FOR SEISMIC DESIGN PURPOSES)
ACI-350 CODE REQUIREMENT FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES & COMMENTARY.
ACI SP-66 ACI DETAILING MANUAL
ACI 207. 1R-96 MASS CONCRETE

DEFINITIONS

- ACI AMERICAN CONCRETE INSTITUTE
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
IBC INTERNATIONAL BUILDING CODE

2a SEISMIC PARAMETER

- SEISMIC OCCUPANCY CATEGORY = III
SITE CLASS = 4
SEISMIC DESIGN CATEGORY = D
SEISMIC IMPORTANCE FACTOR (I) = 1.0
RESPONSE MODIFICATION FACTOR (R) = 8
SPECTRAL RESPONSE FACTORS (S) = 1.28g
SPECTRAL RESPONSE FACTORS (S) = 0.51g

2b WIND LOAD:

- DESIGN WIND LOAD FOR BUILDING SHALL BE IN ACCORDANCE WITH ASCE 7-2005. USING A BASIC WIND SPEED VELOCITY V OF 140 km/ph
WIND EXPOSURE CATEGORY = B
WIND IMPORTANCE FACTOR = 1.0

3 SOIL AND FOUNDATIONS

- a. MODULUS OF SUBGRADE REACTION CONSIDERED FOR RAFT DESIGN - 20,400 KN/cum
b. THE SOIL BEARING CAPACITY USED FOR DESIGN IS 1kg/cm².
c. EARTH UNDER ALL THE FOUNDATION SHALL BE COMPACTED TO 95%.
d. A MIN. 50MM LAYER OF PCC SHALL BE PROVIDED UNDER ALL THE FOUNDATION.

4. CAST IN PLACE CONCRETE (CYLINDRICAL STRENGTH IN

ACCORDANCE WITH ASTM C172)
FOUNDATION 28 N/mm
COLUMNS 28 N/mm
BEAMS 28 N/mm
SLAB 28 N/mm

5 REINFORCING STEEL

- a. CONCRETE REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH RELEVANT STRUCTURAL DRAWINGS AND RELEVANT STANDARD CODES & SPECIFICATIONS.
- b. REINFORCING STEEL YIELD STRENGTH 420 N/mm
- c. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON DRAWINGS. THE FOLLOWING PROTECTION FOR REINFORCEMENT SHALL BE PROVIDED, EXCEPT OTHERWISE NOTED ON DRAWINGS.

MINIMUM COVER

SHALL BE EQUAL TO DIAMETER OF LARGEST REINFORCING BAR OR AS SPECIFIED BELOW, WHICHEVER IS GREATER.

CAST AGAINST PERMANENTLY EXPOSED TO EARTH 75mm

EXPOSED TO EARTH OR WEATHER

20mm DIA THROUGH 32mm DIA 50mm
16mm DIA OR SMALLER 40mm

NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, SLAB, WALLS 20mm

BEAMS 40mm
COLUMNS 40mm

e. LAPS AND DEVELOPEMENT LENGTHS(Ld):

LAPS SHALL BE PROVIDED ONLY AT APPROVED LOCATIONS AND SHOULD BE STAGGERED. LAP LENGTH SHALL BE 'Ld' AS GIVEN BELOW.
'Ld' = FACTOR X DIAMETER OF BARS.

MULTIPLYING FACTORS

CONCRETE GRADE 4000 psi						
BAR DIA	10	12	16	20	25	32
DEVELOPMENT LENGTH FACTOR	38db	38db	38db	47db	47db	47db

db - DIA OF BAR

- f. REINFORCEMENT TO BE PROVIDED IN TWO LAYERS, IF REQUIRED TO AVOID CONGESTIONS AND FOR EASY PLACEMENT OF CONCRETE. THIS SHOULD BE REPORTED TO CONSULTANT PRIOR TO EXECUTION.
- g. REINFORCING STEEL WILL CONFORM TO ASTM615, GRADE 60
- h. MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES SHOULD BE IN ACCORDANCE WITH ACI 318-05 SECTION 12.15.1.
- i. REINFORCEMENT AND CONNECTION OF STURCTURE SHALL BE EFFECTIVELY TIED AND SHALL CONSTITUTE MINIMUM REQUIREMENTS IN ACCORDANCE WITH ACI-318-05 SECTION 7.13.
- j. MINIMUM SPACING FOR SHEAR REINFORCEMENT SHOULD BE IN ACCORDANCE WITH ACI-318-05 SECTION 11.5.5.
- k. NO SPLICE SHALL BE PERMITTED ON BEAMS AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR AND NO CONSTRUCTION JOINT SHALL BE PERMITTED ON BEAMS AND SLABS AT POINTS WHERE CRITICAL SHEAR STRESSES OCCUR.
- l. THE FIRST HOOP OF BEAM SHEAR REINFORCEMENT SHALL BE LOCATED NOT MORE THAN 50MM FROM FACE OF SUPPORTING MEMBER IN ACCORDANCE WITH ACI-318-05 SECTION 21.3.3.2.
- m. COLUMN TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ACCORDANCE WITH ACI-318-05 SECTION 7.10.5.4.
- n. THE MINIMUM CLEAR SPACING OF REINFORCEMENT BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN 25MM IN ACCORDANCE WITH ACI-318-05 SECTION 7.6.1.

6 NOTATIONS:

(A) REINFORCED CONCRETE

- 3 -Ø10

↑
DIA. OF BAR.

↑
TOTAL NO. OF BARS.

- THE SPACING OF BAR IF GIVEN AFTER DIA IS INDICATED BY @ FOLLOWED BY SPACING IN MILLIMETERS LIKE THIS.

- 10 @ 200 C/C.

↑
CENTER TO CENTER SPACING IN MM.

↑
DIA. OF BAR.

7 ABBREVIATIONS

- ARCH. - ARCHITECTURE
BF - BOTH FACE
B/W - BOTH WAYS
B&T - TOP AND BOTTOM
C/C - CENTER TO CENTER
DWG. - DRAWING
FFL - FINISHED FLOOR LEVEL
Fn - FOOTING TYPE
GL - GROUND LEVEL
MM - MILLIMETERS
NO. - NUMBER
NOS. - NUMBERS
P.C.C. - PLAIN CEMENT CONCRETE. (GRADE M10 U.N.O.)
R.C.C - REINFORCED CEMENT CONCRETE
SBC - SAFE BEARING CAPACITY
THK. - THICKNESS
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE

8 LEGENDS

- ∕@ - AT THE RATE OF
▨ - GROUND LEVEL
↑ - ONE WAY SLAB
↑↓ - TWO WAY SLAB
↑ - CANTILEVER SLAB
(An) - GRID NO.
Ø - DIAMETER OF REINFORCING BAR (SHEAR LUGS)

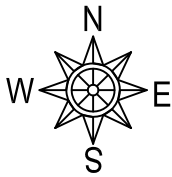
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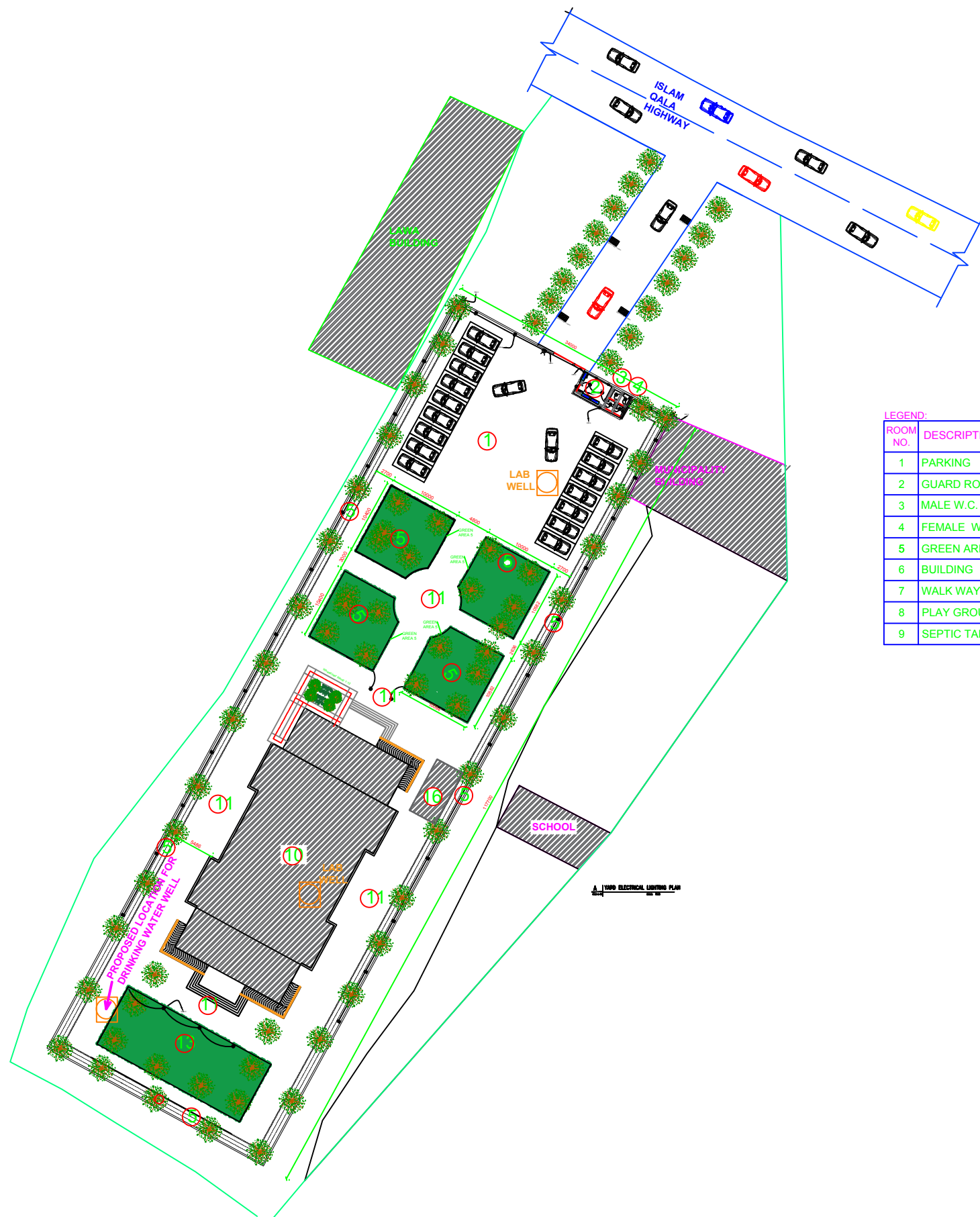
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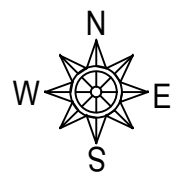


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LEGEND:

ROOM NO.	DESCRIPTIONS	AREA (Sqm)	WIDTH (Sqm)
1	PARKING	200	
2	GUARD ROOM	36	
3	MALE W.C.	8	
4	FEMALE W.C.	8	
5	GREEN AREAS	833	
6	BUILDING	1171	
7	WALK WAYS	1997	
8	PLAY GROUND	200	
9	SEPTIC TANK	32	



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























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GENERAL LEGEND		GENERAL NOTES & ABBREVIATIONS
<p><u>LIGHTING:</u></p> <p> FN – 1x26W, 220V -240V , 50Hz, FULL SPIRAL MOUNTED,IP20</p> <p> LED – 1x20W, 220V, 50Hz, LED LIGHT RECEED MOUNTED ,IP54,</p> <p> – 1x18W 220V-240V 50Hz ,FULL SPIRAL, WALL MOUNTED</p> <p> – 400W,220V,50H METAL HALIDE FLOOD LIGHT IP 65,WEATHER PROOFTYPE PHOTOCELL CONTROL.</p> <p> EXIT – DIRECTIONAL EXIT EMERGENCY LIGHT WITH 90 MINUTES BATTERY BACK UP, LED LAMPS, WALL MOUNTED.</p> <p> – ONE WAY SINGLE GANG SWITCH</p> <p> – TWO WAY SINGLE GANG SWITCH</p> <p><u>POWER:</u></p> <p> MDB – MAIN DISTRIBUTION BOARD</p> <p> DB – DISTRIBUTION BOARD</p> <p> DBPV – DISTRIBUTION BOARD of PHOTOVOLTAIC SYSTEM</p> <p> – 30A ,220V SINGLE SOCKET OUTLET</p> <p> – 30A ,220V DOUBLE SOCKET OUTLET</p> <p> – 30A ,220V FOUR FLOOR SOCKET OUTLET</p> <p> PVIR – 15A ,220V SINGLE PHOTOVOLTAIC SOCKET OUTLET</p> <p> FFPVR – 15A ,220V SINGLE FLOOR PHOTOVOLTAIC SOCKET OUTLET</p> <p> – TELEPHONE & NET DOUBLE SOCKET OUTLET</p>	<p><u>FIRE ALARM:</u></p> <p> – SMOKE DETECTOR</p> <p> – BREAK GLASS /MANUAL PULL STATION</p> <p> – ALARM BELL SOUNDER</p> <p> FACP – FIRE ALARM CONTROL PANEL</p> <p> – STROBE</p> <p> – ADRESSABLE DETECTOR DEVICE CKT RUN</p> <p> – ALARM DEVICE POWER SUPPLY CKT RUN</p> <p><u>MECHANICAL:</u></p> <p> – EXHAUST FAN WALL MOUNTED</p> <p> – UNIT HEATER</p> <p><u>GROUNDING LEGEND:</u></p> <p> – 3METER LENGTH, Ø20MM DIAMETER ,COPPER GROUND ROD</p> <p> – UNDERGROUND BARE COPPER CONDUCTOR 50mm OTHER WISE SIZE AS INDICATED ON THE PLAN</p> <p> T – T-SPLICE EXOTHERMIC WELD</p>	<p><u>NOTES:</u></p> <p>1- RECEPTACLES LEVEL IS 450mm AFF UNLESS OTHER WISE NOTED.</p> <p>2- ELECTRICAL PANELS LEVELS ARE 1800mm TO THE HIGHEST POINT OF BOARD.</p> <p>3 - ALL EXTERNAL CABLE P.V.C CONDUIT ARE UNDER GROUND AT (610 mm).</p> <p>4- EACH DUCTBANK HAVE MIN ONE SPARE CONDUIT</p> <p>5 - ALL WIRING SHALL BE COPPER MINIMUM #14AWG INSTALLED IN PVC CONDUIT . WIRING SHALL BE RECESSED IN FINISHED AREAS AND SURFACE MOUNTED IN UN FINISHED AREAS.</p> <p>6- THE GROUNDING RESISTANCE SHALL NOT EXCEED 25 OHMS AND GENERATOR GROUND-GRID SHALL NOT EXCEED 5 OHMS.</p> <p>7-ALL RECEPTACLES IN WET AND DAMP LOCATIONS SHOULD BE WEATHER PROOF AND G.F.C.I TYPE.</p> <p>8-BATTERY BACK UP SHALL BE PROVIDED FOT THE EMERGENCY AND EXITS LIGHT. IN THE EVENT OF POWER FAILURE FOT NOT LESS THAN 90 MIN AS PER NFPA 101 SEC 7.9.2.1</p>


A | LEGEND

PR.B-A-01

SCALE: 1:150

LOGOS





Hilfe zur Selbsthilfe

KEY-PLAN

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606121824

SCALE1:600METER

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ELECTRICAL LEGEND


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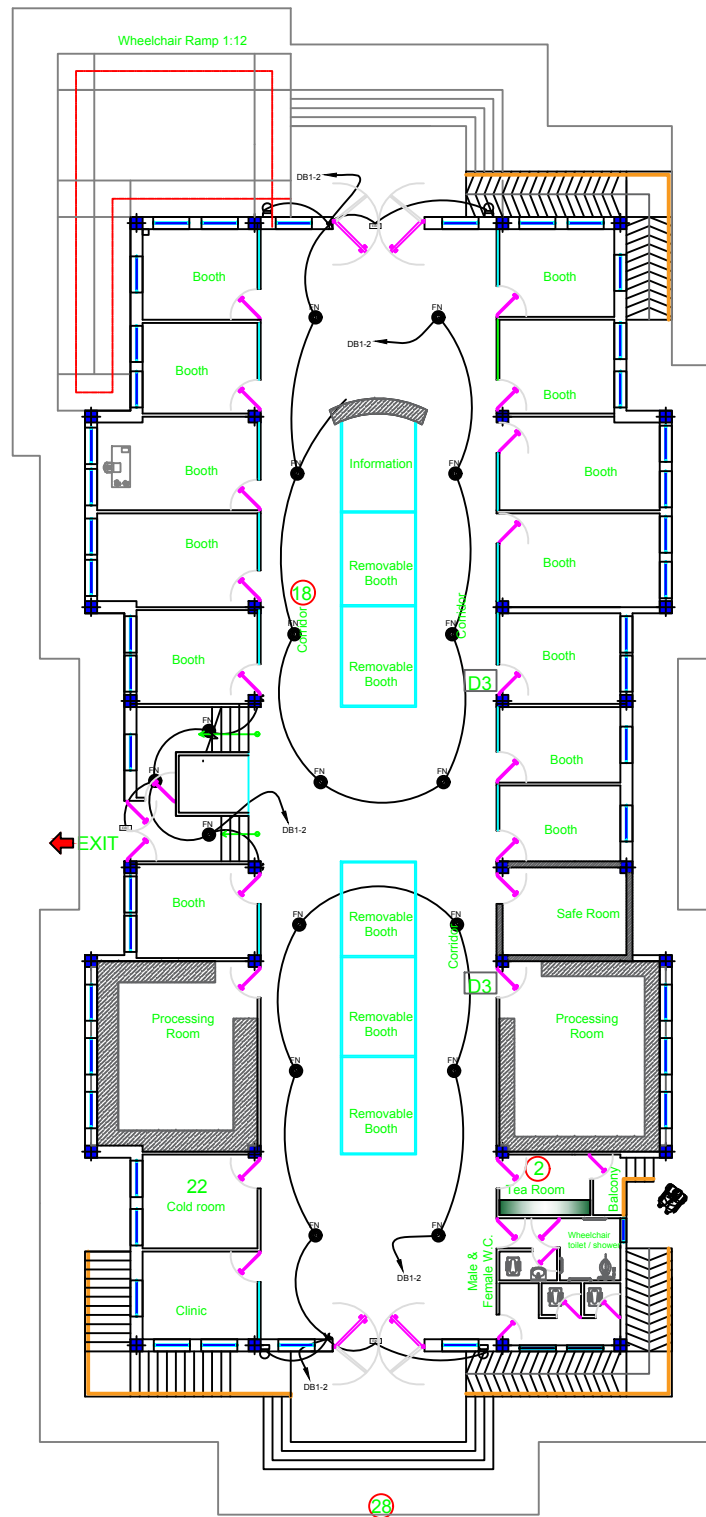
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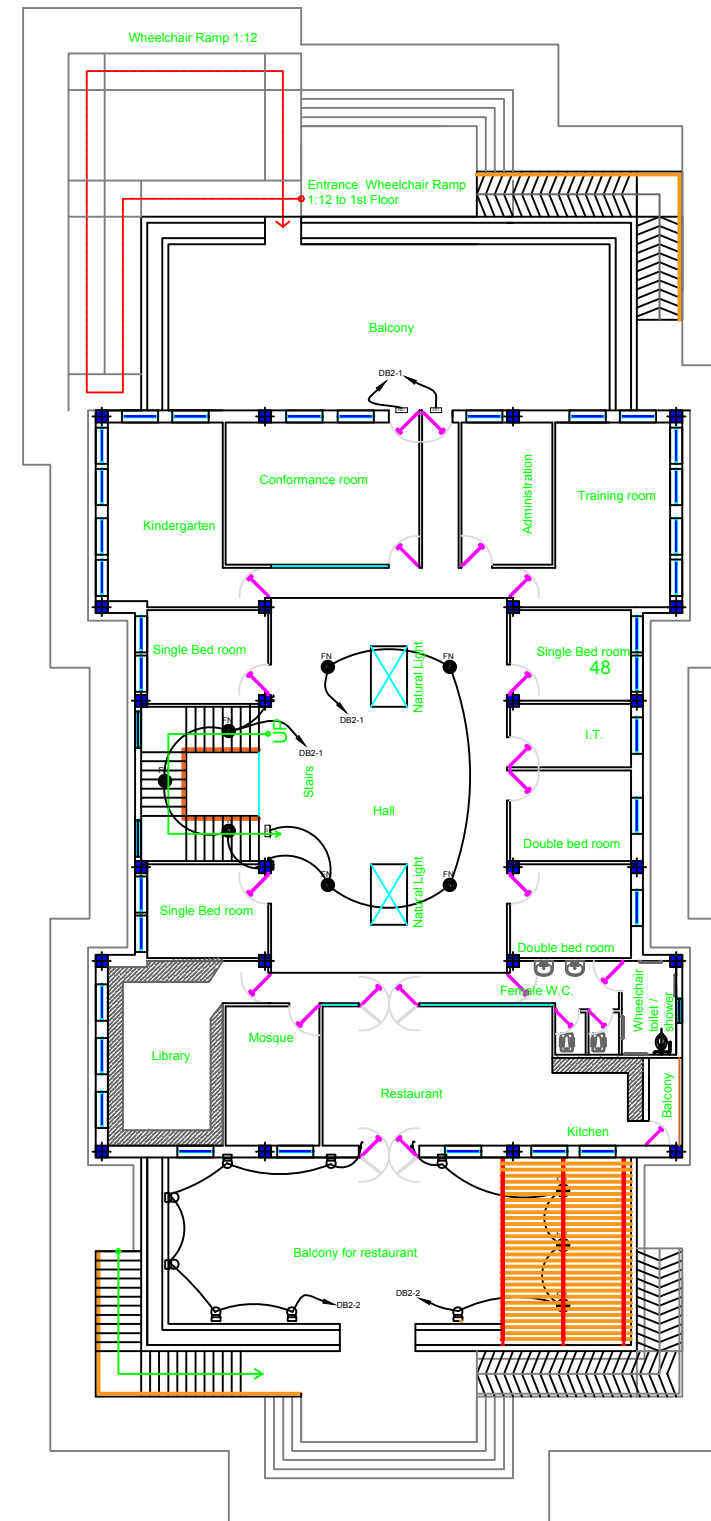
EDESTA

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A | FIRST FLOOR ELECTRICAL LIGHTING PLAN
 PRJ-A-01 | SCALE: 1:150



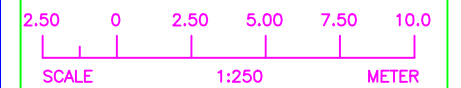
A | SECOND FLOOR ELECTRICAL LIGHTING PLAN
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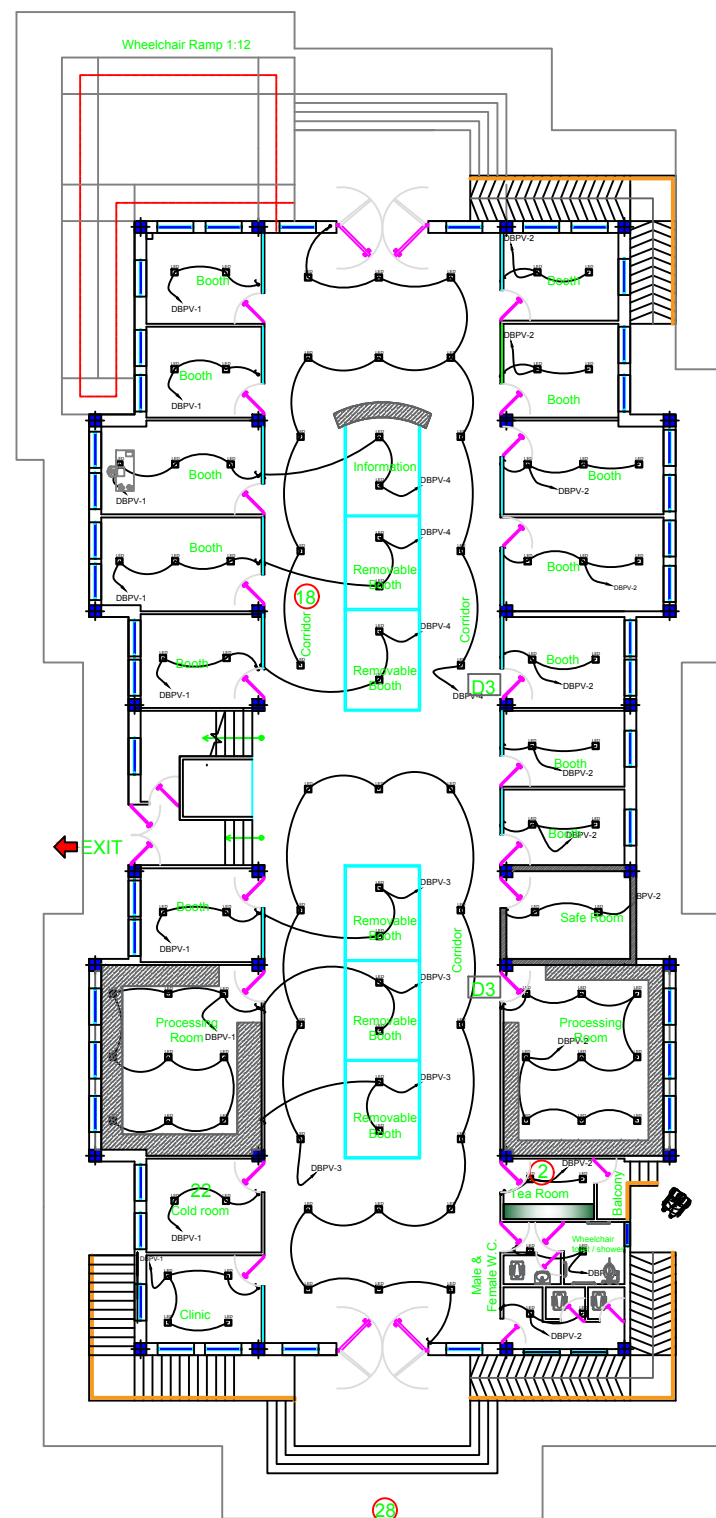
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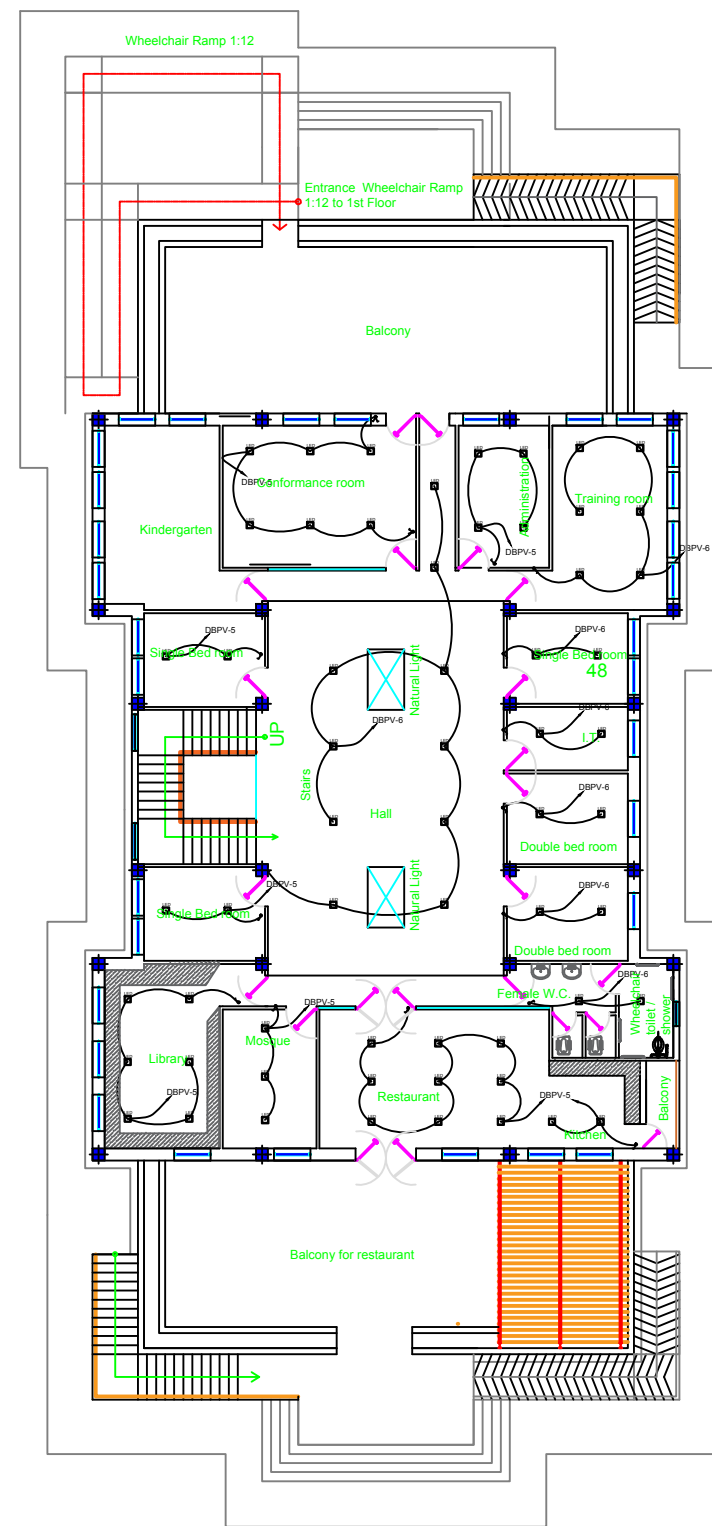
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A | FIRST FLOOR ELECTRICAL LIGHTING PLAN (PHOTOVOLTAIC SYSTEM)
SCALE: 1:150



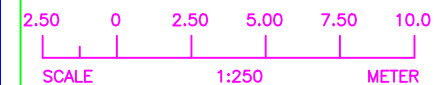
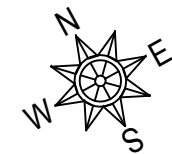
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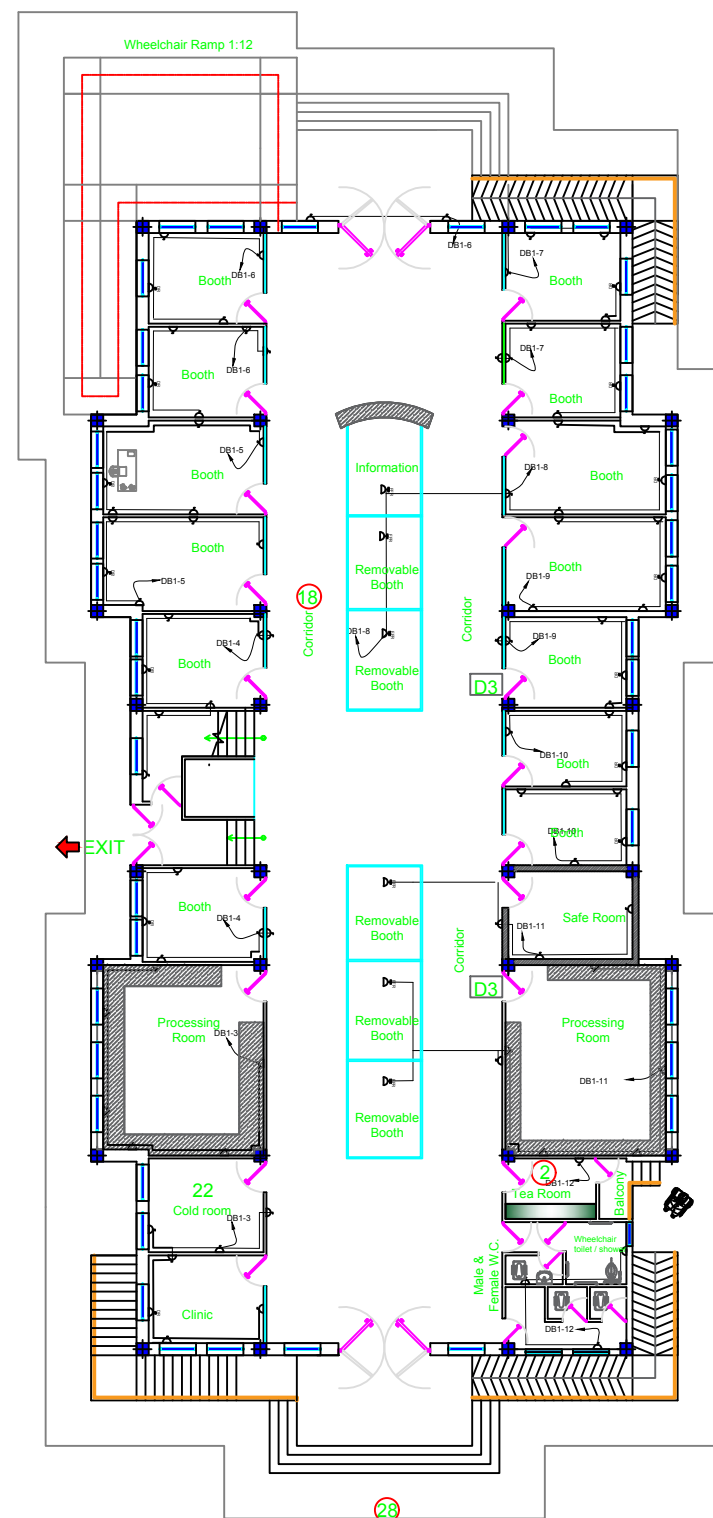
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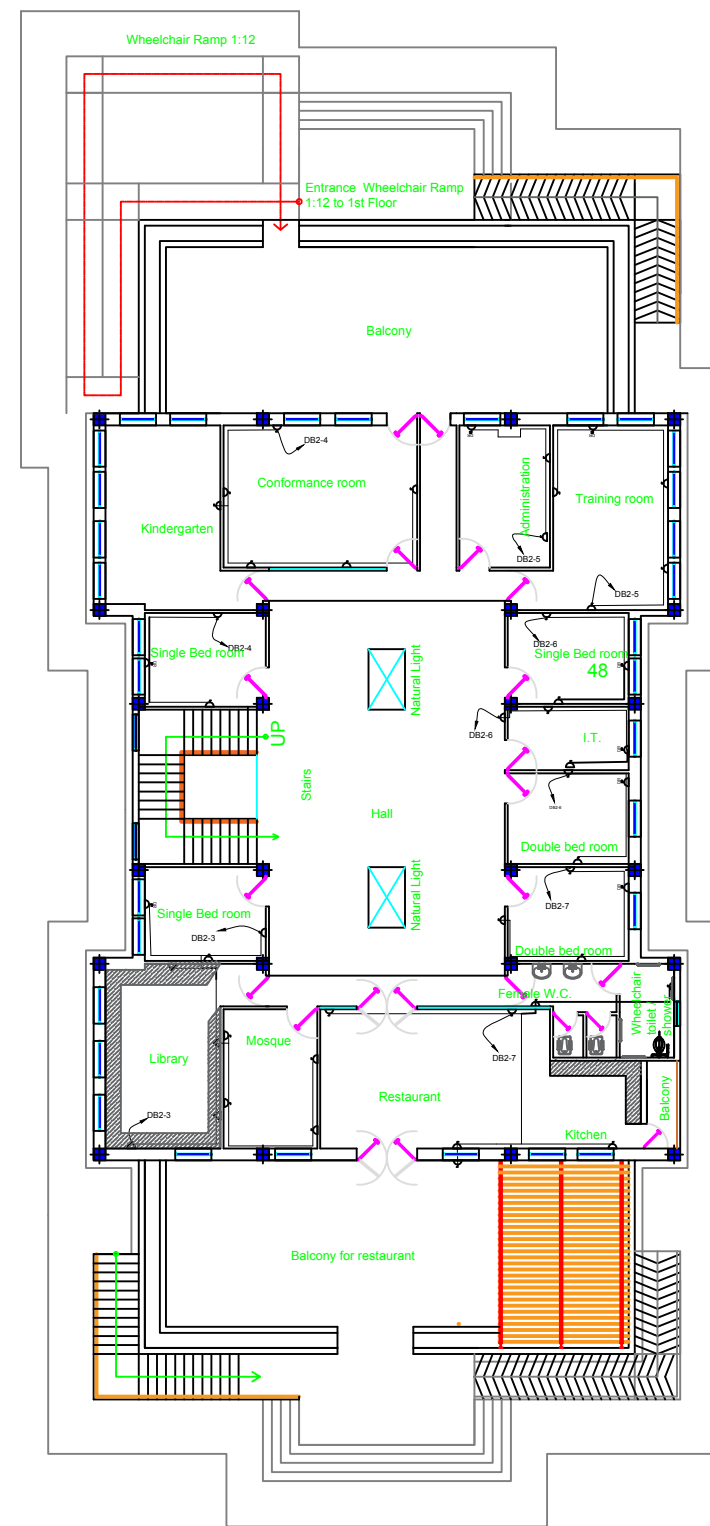
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DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY



A | FIRST FLOOR ELECTRICAL SOCKET PLAN
SCALE: 1:150



A | SECOND FLOOR ELECTRICAL SOCKET PALN
SCALE:

LOGOS



KEY-PLAN

NOTES :



REVISIONS				
DATE	DESCRIPTION	DRN	BY	CHK BY

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PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

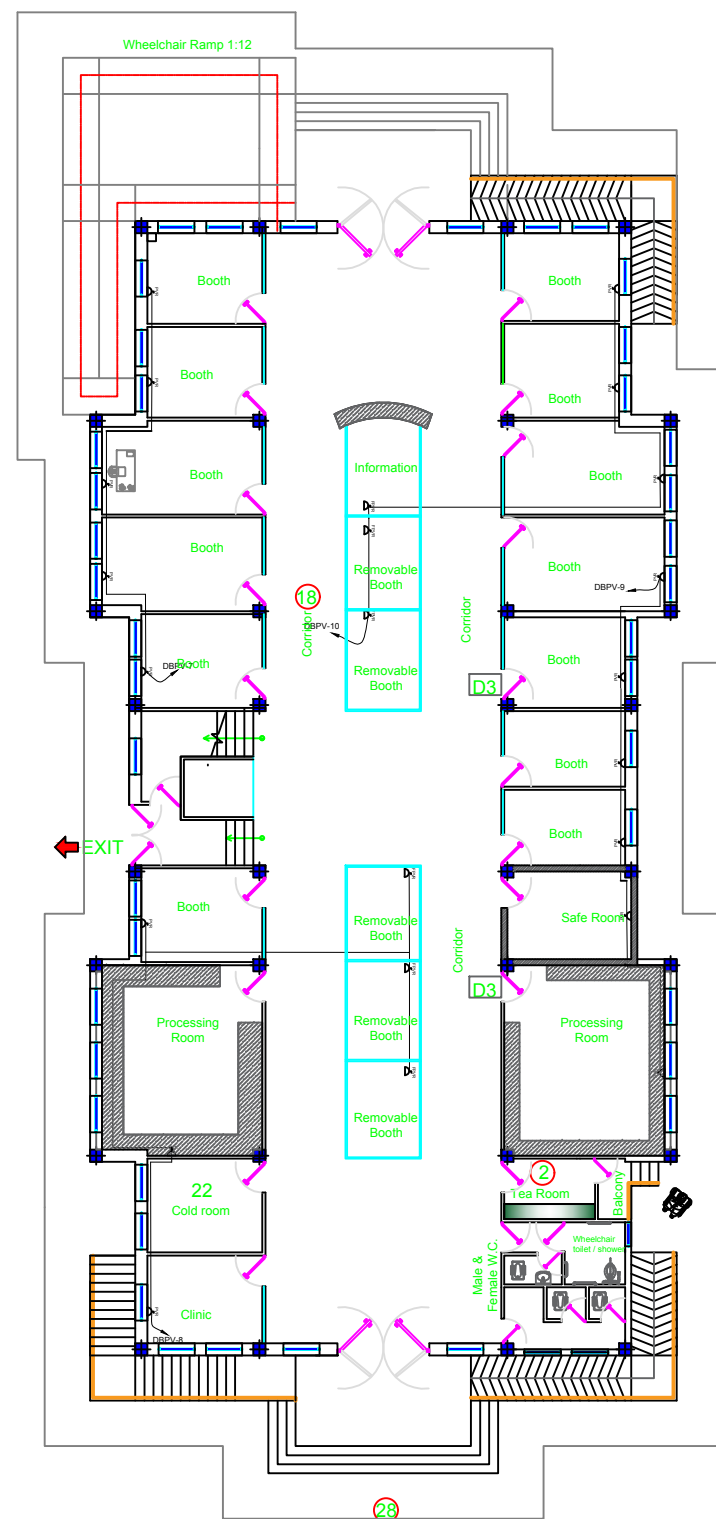
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ELECTRICAL SOCKET PLAN

ISSUED FOR
REVISION

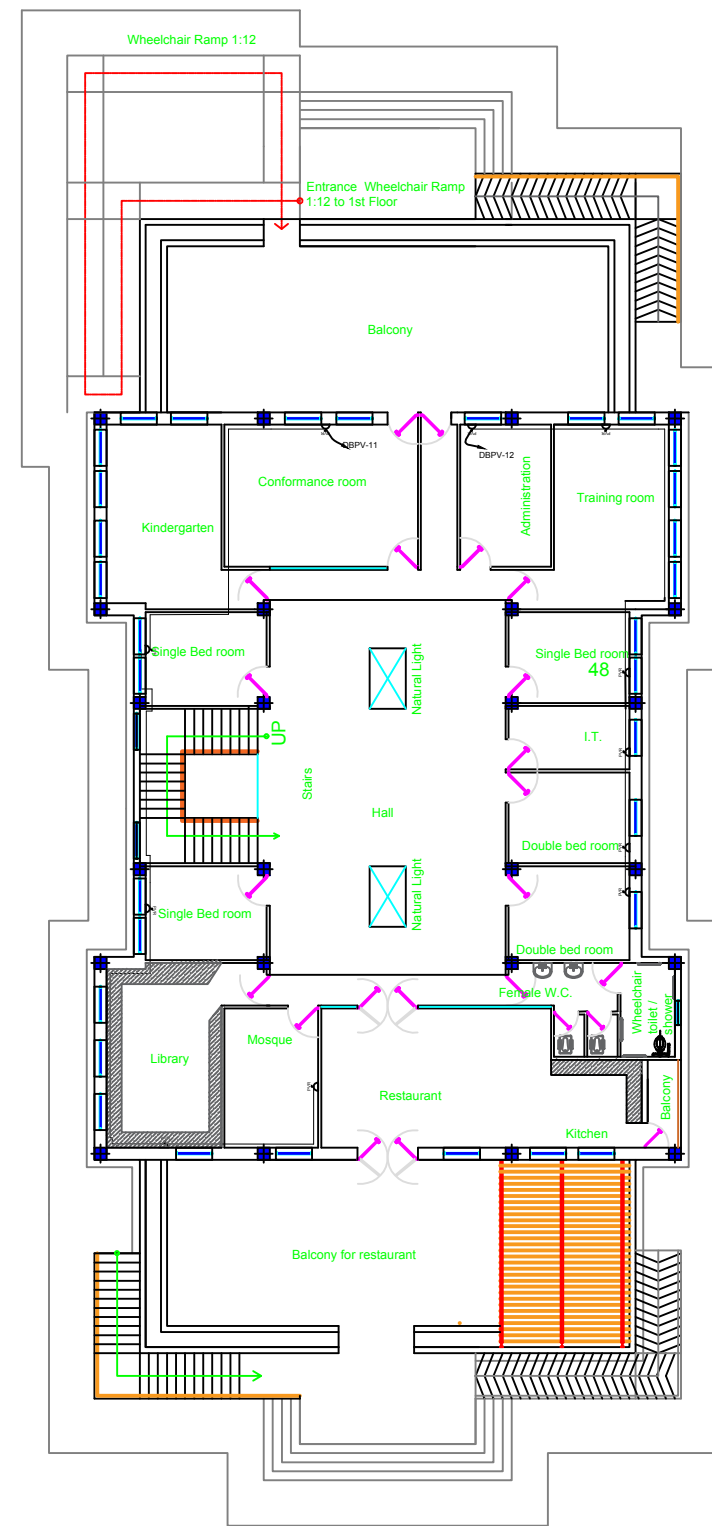
PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-104	05
SCALE	1:250	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY



A FIRST FLOOR SOCKET PLAN (PHOTOVOTAIC SYSTEM)



A SECOND FLOOR SOCKET PLAN (PHOTOVOLTAIC SYSTEM)

LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



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AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
ELECTRICAL SOCKET PLAN (PHOTOVOLTAIC SYSTEM)

ISSUED FOR
REVISION

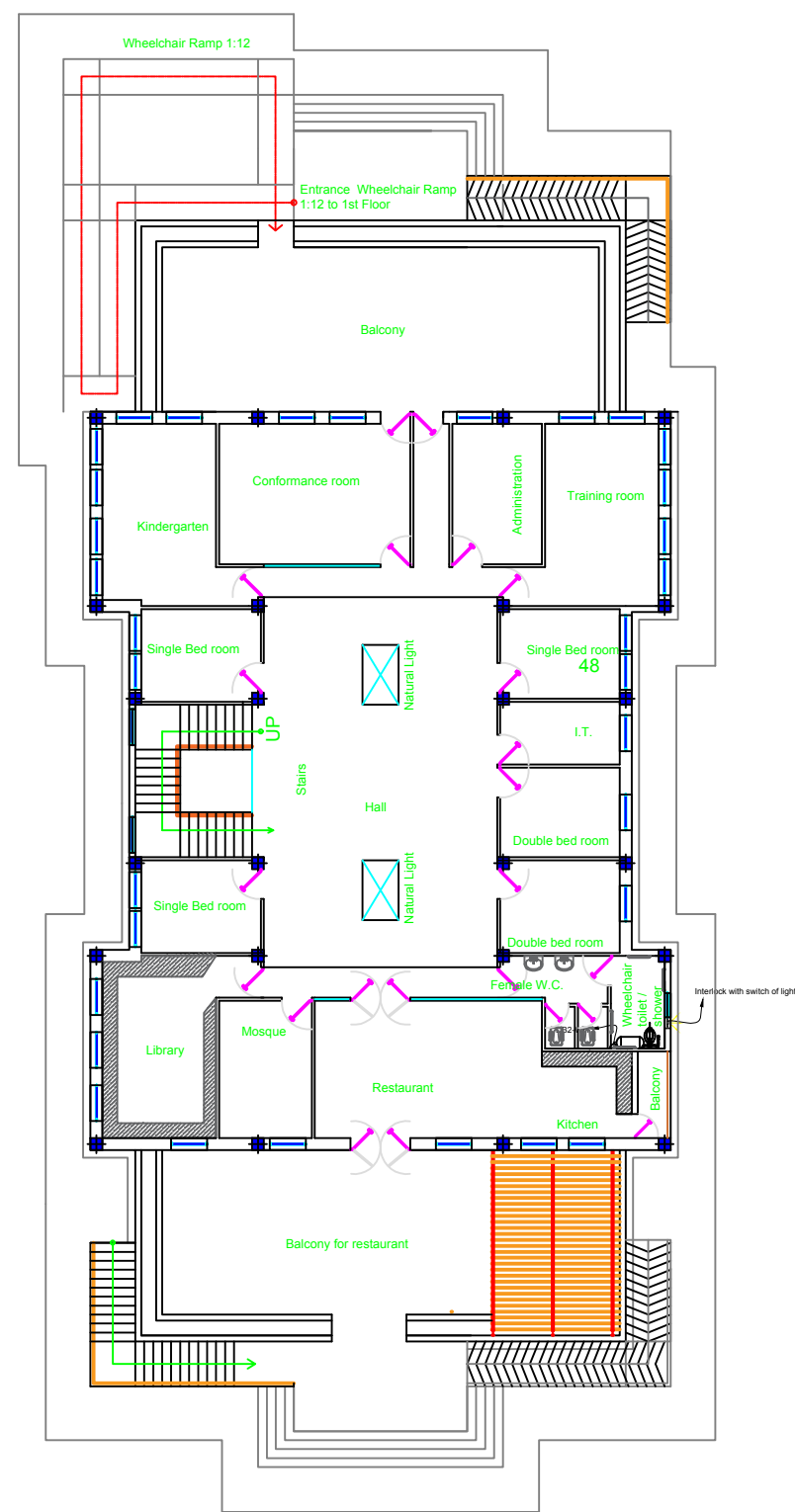
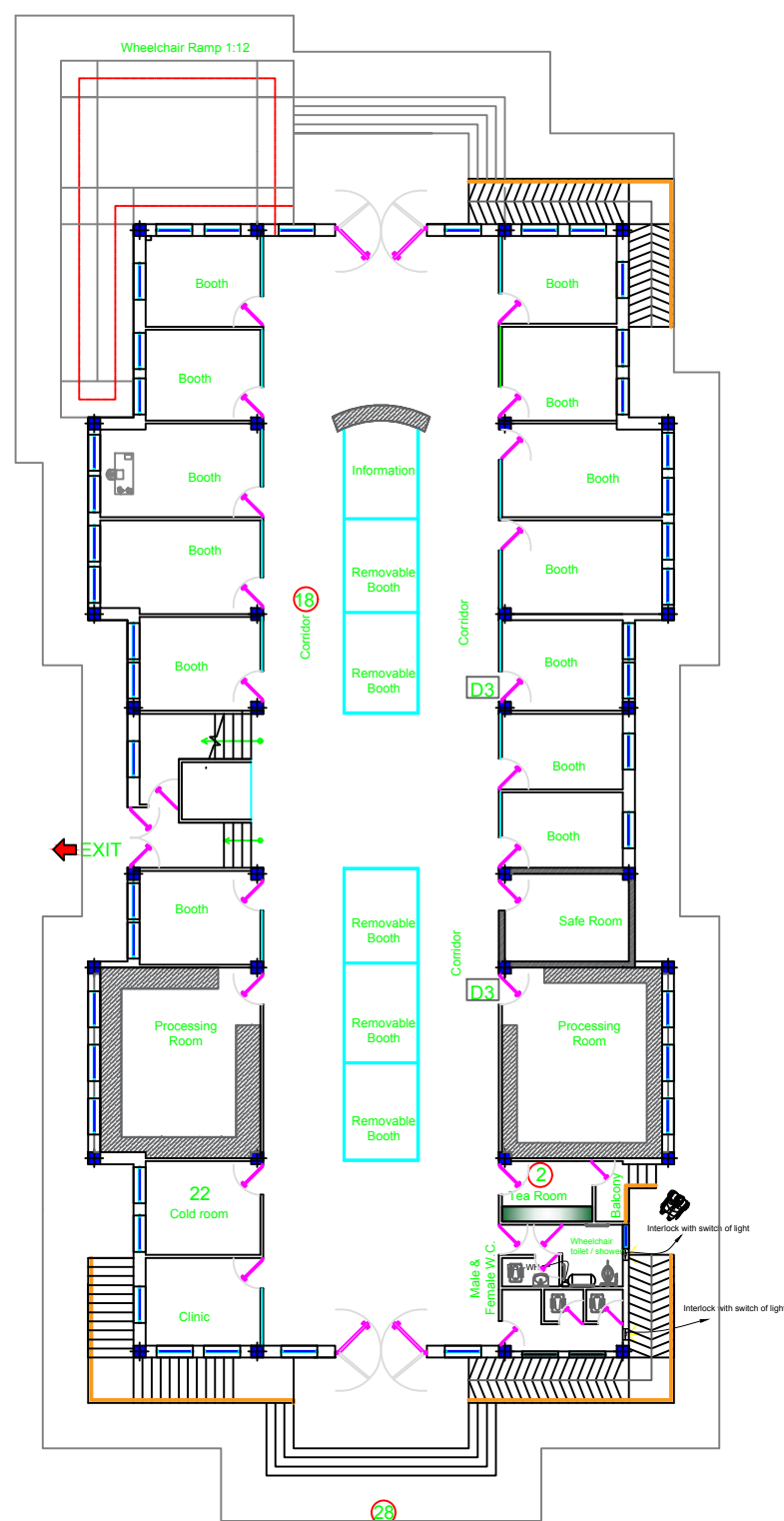
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	E-105	06

SCALE	1:150	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



LOGOS



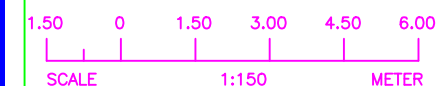
Help
Hilfe zur Selbsthilfe

Hilfe zur Selbsth

KEY-PLAN

NOTES :

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SCALE	1:150	METER
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DRAWING TITLE

MECHANICAL PLAN

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-106	07

SCALE	1:150	DATE:	DEC.23,2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	

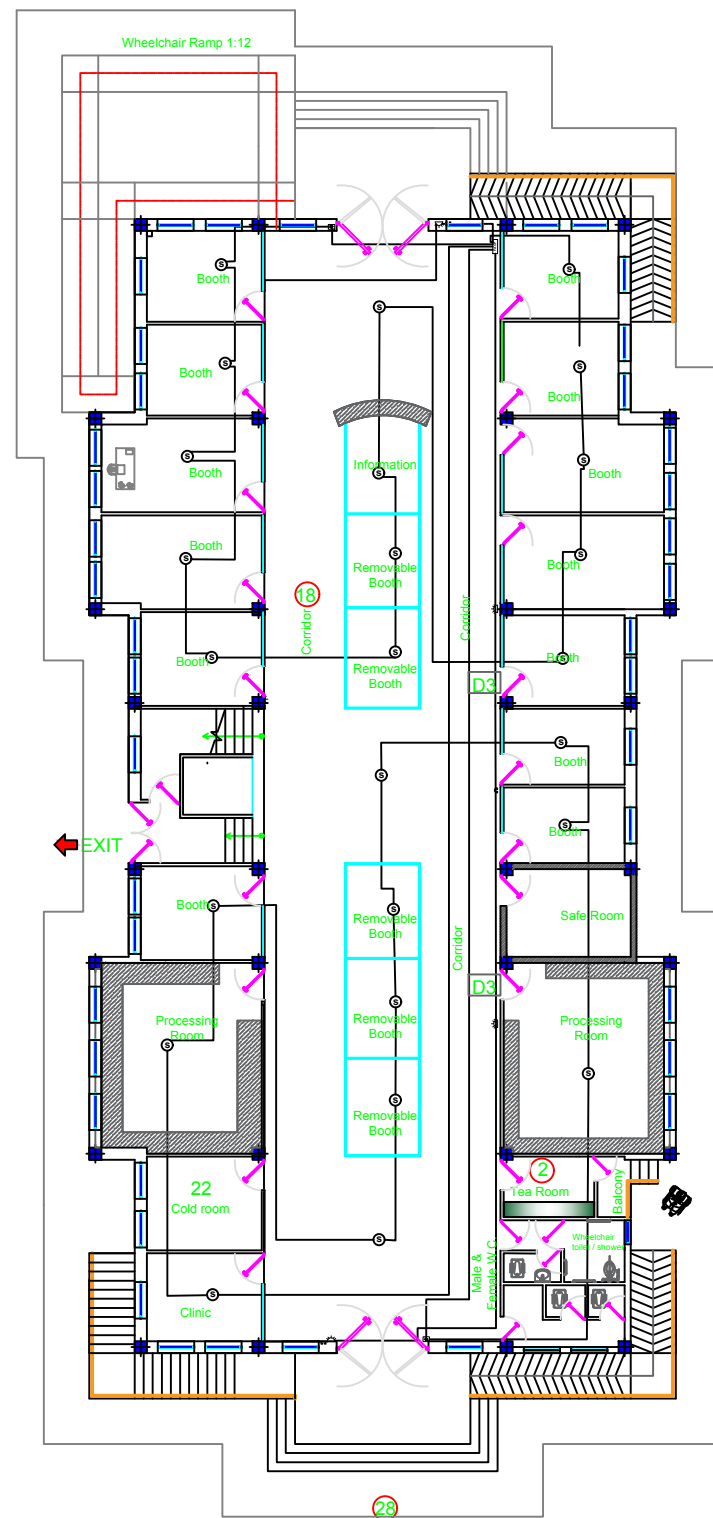
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	

DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	
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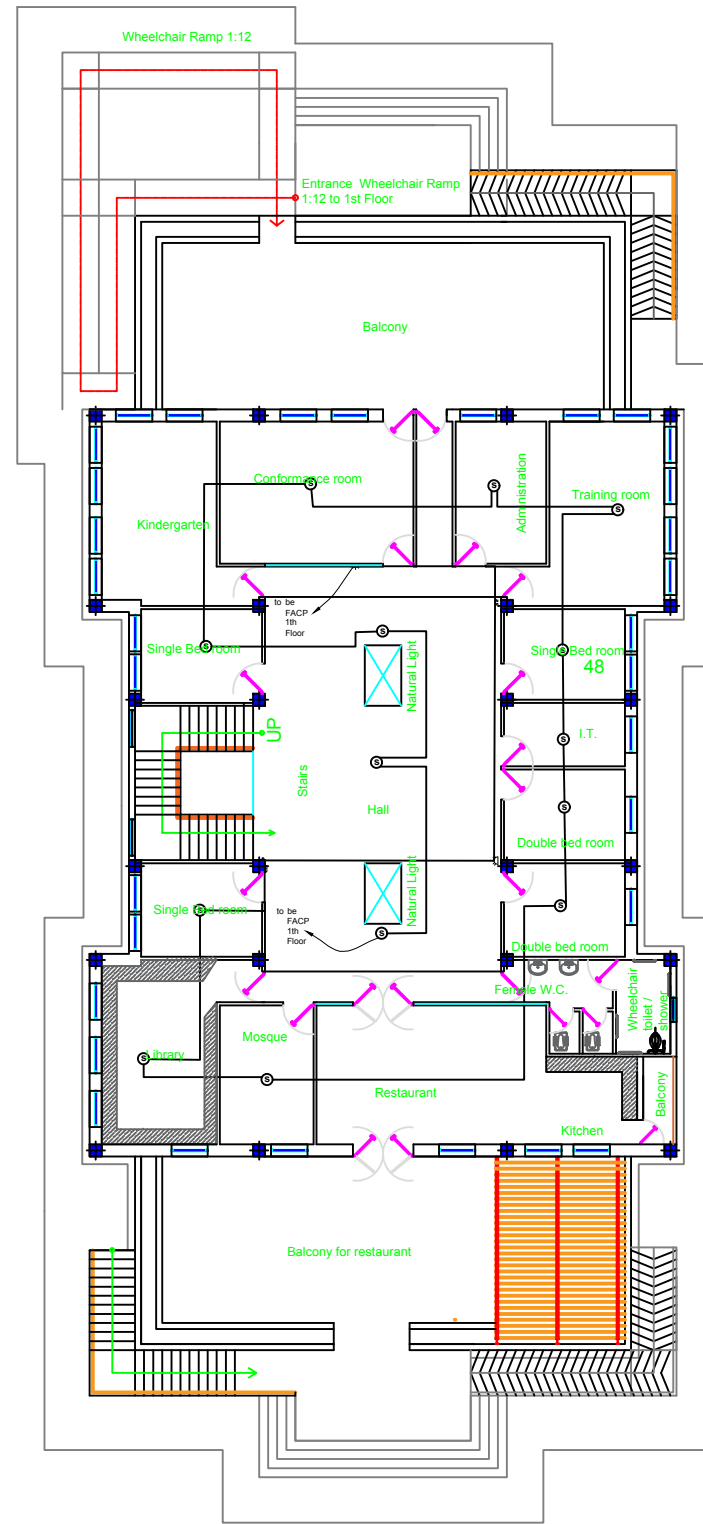
DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



A | FIRST FLOOR FIRE ALARM PLAN
PR.B-A-01 SCALE: 1:150



A | SECOND FLOOR FIRE ALARM PLAN
PR.B-A-01 SCALE: 1:150

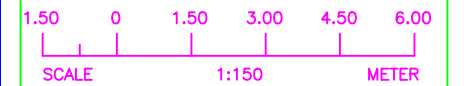
LOGOS



KEY-PLAN

NOTES :

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PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

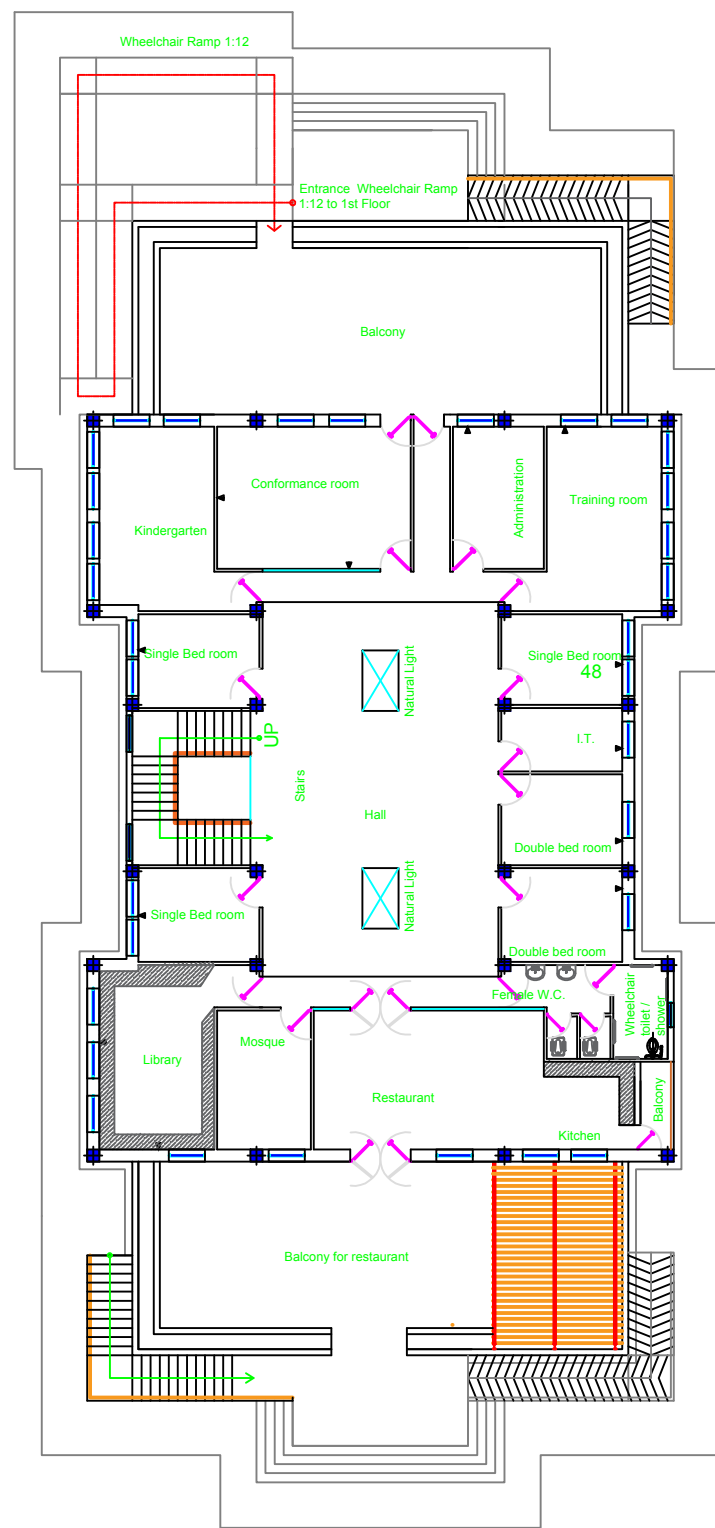
DRAWING TITLE
FIRE ALARM PLAN

ISSUED FOR
REVISION

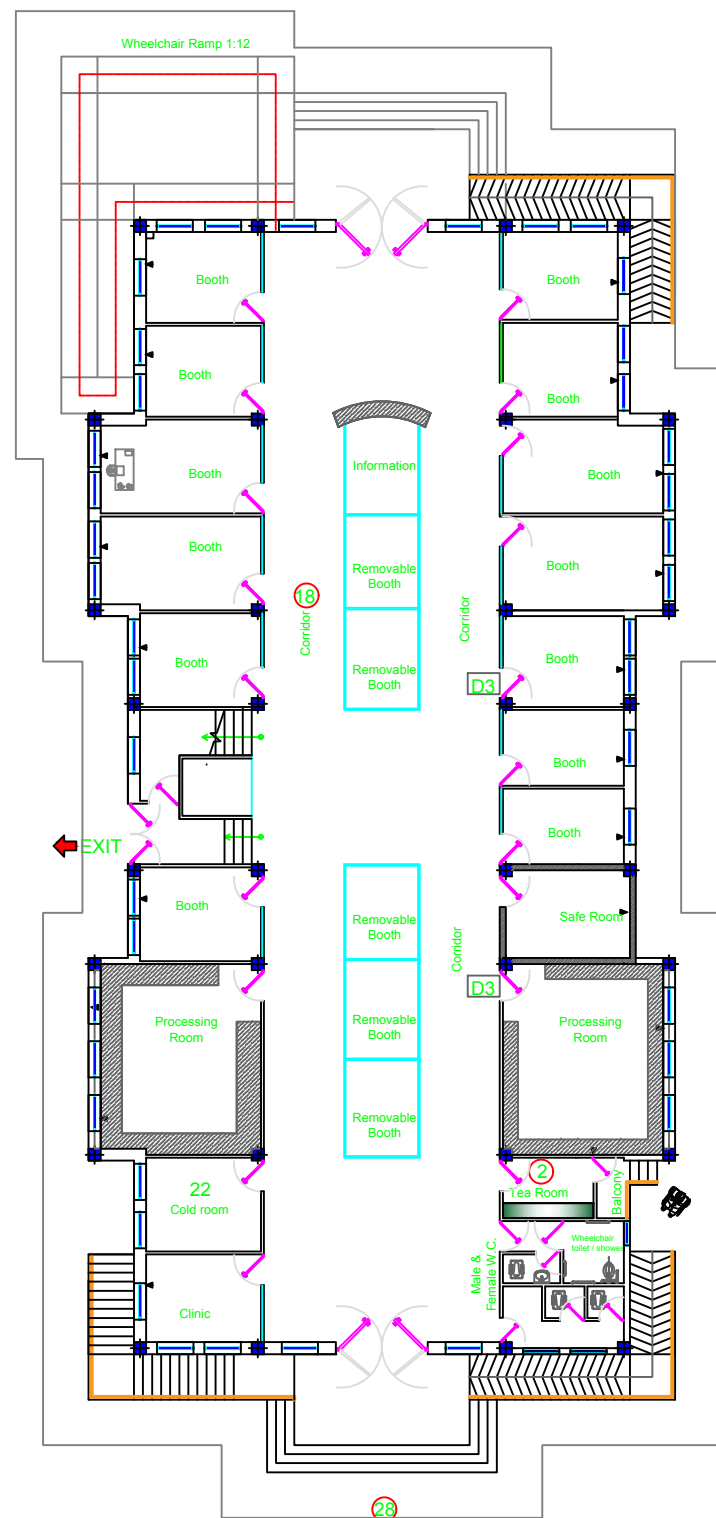
PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-107	08
SCALE	1:150	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY



A | SECOND FLOOR COMMUNICATION PALN
PLB-A-01 SCALE



A | FIRST FLOOR COMMUNICATION PLAN
PLB-A-01 SCALE: 1:150

LOGOS



KEY-PLAN

NOTES :

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PROJECT NAME/CODE NO

PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
 TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
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DRAWING TITLE

COMMUNICATION PLAN

ISSUED FOR

REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	A-108	09

SCALE	1:50	DATE:	DEC.23.2020
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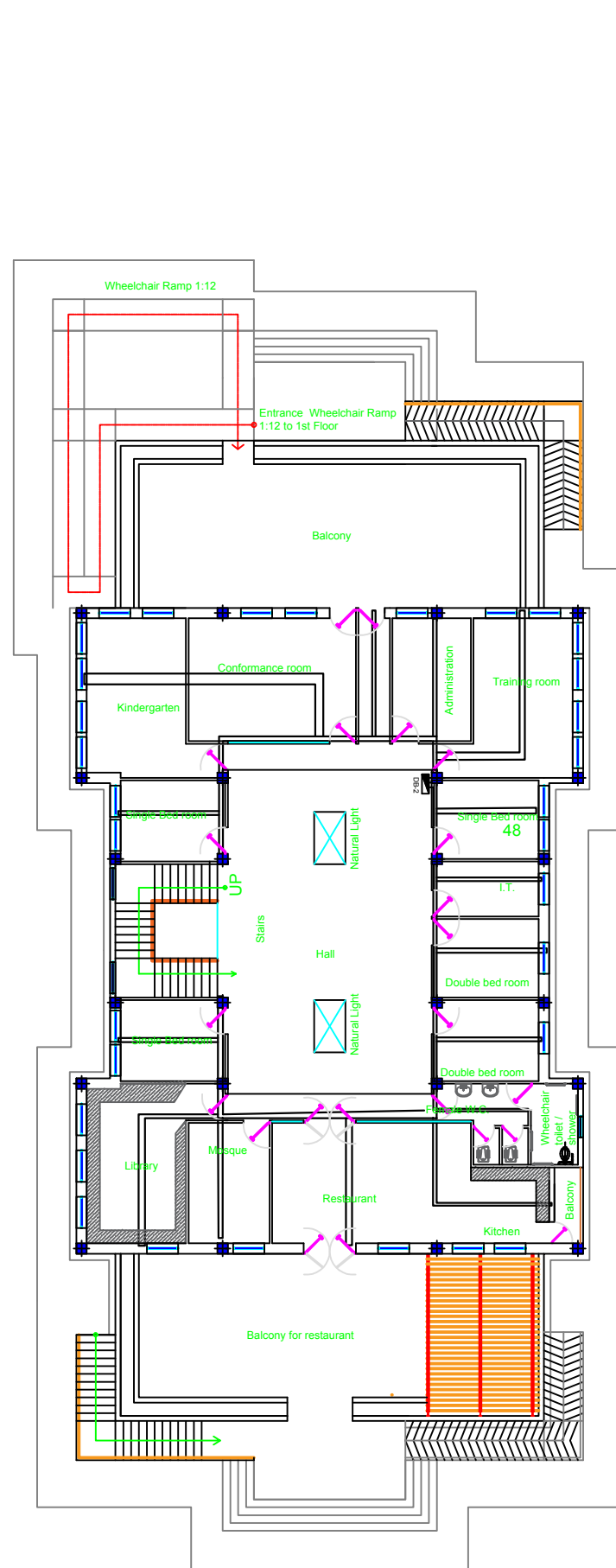
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
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DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:	
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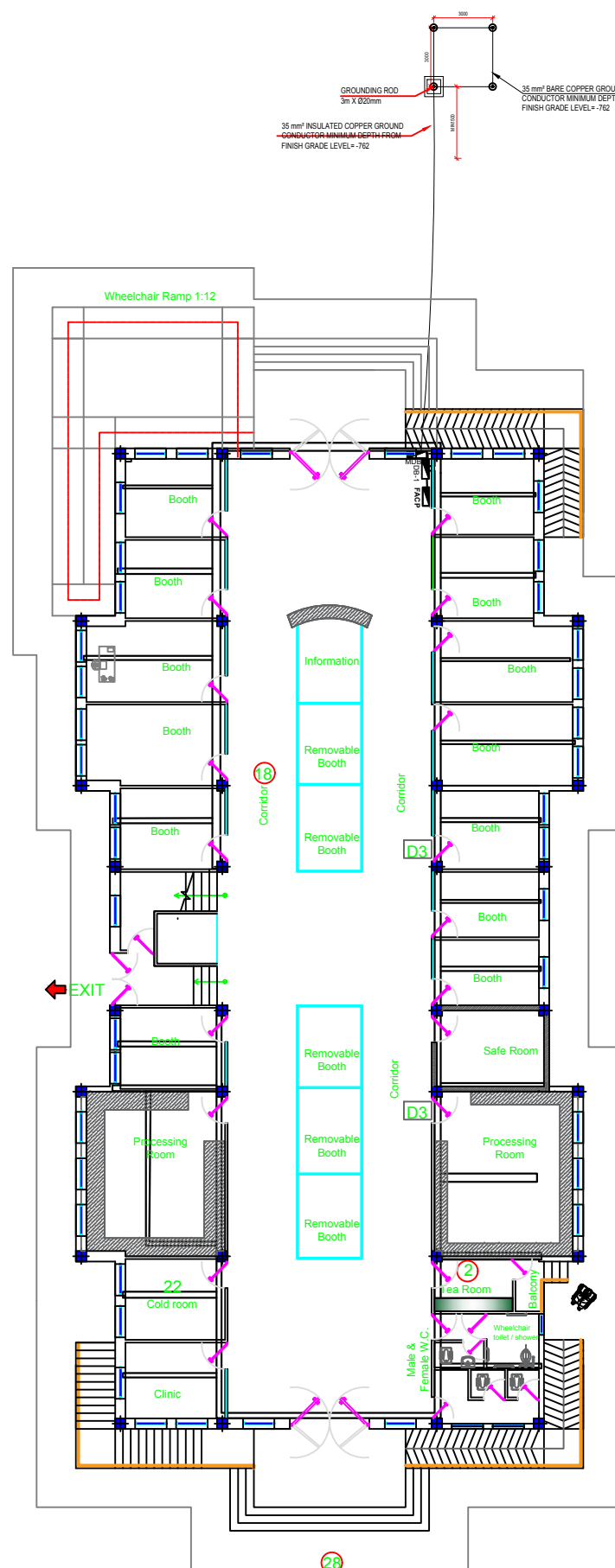
DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



A | SECOND FLOOR GROUNDING & CABLE TRAY
PLB-I-01 SCALE



A | FIRST FLOOR GROUNDING & CABLE TRAY PLAN
PLB-I-01 SCALE

LOGOS



KEY-PLAN

NOTES :

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PROJECT NAME/CODE NO
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TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

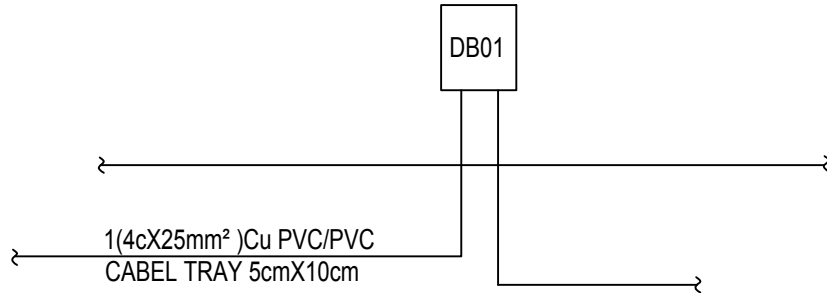
DRAWING TITLE
GROUNDING & CABLE TRAY PLAN

ISSUED FOR
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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SCALE	1:50	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

PANEL BOARD NAME : FIRST FLOOR - DB 1					80AMP BUSBAR RATE					MAIN BREAKER :63 A					
PANEL LOCATION: FIRST FLOOR					220/380 VOLT , 3 PHASE , 4 WIRE , 50HZ					30KA ISC / 0.5 SEC SURFACE MOUNTED NEMA ENCLOSURE					
WIRE ,CONDUIT DESCRIPTION		PHASE			TRIP & CIRCUIT					PHASE			WIRE ,CONDUIT DESCRIPTION		
WIRE	DESCRIPTION	A (W)	B (W)	C (W)	AMP	POLE	CKT	CKT	POLE	AMP	A (W)	B (W)	C (W)	DESCRIPTION	WIRE
(2X2.5mm²)	LIGHTING	910			10	1	1	2	1	20			982	ENCLOSURE , CORRIDOR	(2X2.5mm²)
(2X2.5mm²)	RECEPTACLE		2016		20	1	3	4	1	20		2016		RECEPTACLE	(2X2.5mm²)
(2X2.5mm²)	RECEPTACLE			1728	20	1	5	6	1	20	2016			RECEPTACLE	(2X2.5mm²)
(2X2.5mm²)	RECEPTACLE	1872			20	1	7	8	1	20	2592			RECEPTACLE	(2X2.5mm²)
(2X2.5mm²)	REPEPTACLE		1872		20	1	9	10	1	20	1440			RECEPTACLE	(2X2.5mm²)
(2X2.5mm²)	REPEPTACLE		1728		20	1	11	12	1	20			2448	RECEPTACLE	(2X2.5mm²)
(2X4mm²)	WATER HEATER	1500		1600	20	1	13	14	1	20			600	WATER COOLER	(2X2.5mm²)
	SPARE				20	1	15	16	1	32			3408	DB 3	(2X6mm²)
	SPARE				20	1	17	18	1	20				SPARE	
	SPARE				20	1	19	20	1	20				SPARE	
SUB TOTAL = (w)		4282	5616	3328							6048	2016	7438		
SUB TOTAL = (VA)		5352.50	7020.00	4160.00							7560.00	7560.00	9297.50		
VA AMP															
TOTAL PHASE (A) =		12912.50	58.69												
TOTAL PHASE (B) =		14580.00	66.27												
TOTAL PHASE (C) =		13457.50	61.17												
TOTAL CONNECTED LOAD		40950.00	62.29												
DEMAND FACTOR		0.9													
DEMAND LOAD		36855.00													
20% FUTURE		7371.00													
TOTAL LOAD		44226.00													
TOTAL AMPERE		67.27													


A

FIRST FLOOR PANEL SCHEDUAL


PR.B-A-01

SCALE: 1:150

LOGOS



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KEY-PLAN

NOTES :
1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

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SCALE1:50METER

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DONOR

PATRIP FOUNDATION

PROJECT NAME/CODE NO

PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE

FIRST FLOOR PANEL SCHEDULE


ISSUED FOR

REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-110	11

SCALE	1:50	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :



EDESTA

PEDESTAL CONSTRUCTION COMPANY

PANEL BOARD NAME : SECOND FLOOR - DB 2					80AMP BUSBAR RATE					MAIN BREAKER : 32 A									
PANEL LOCATION: SECOND FLOOR					220/380 VOLT , 3 PHASE , 4 WIRE , 50HZ					30KA ISC / 0.5 SEC SURFACE MOUNTED					NEMA ENCLOSURE				
WIRE ,CONDUIT DESCRIPTION		PHASE			TRIP & CIRCUIT						PHASE			WIRE ,CONDUIT DESCRIPTION					
WIRE	DESCRIPTION	A (W)	B (W)	C (W)	AMP	POLE	CKT	CKT	POLE	AMP	A (W)	B (W)	C (W)	DESCRIPTION	WIRE				
(2X2.5mm²)	LIGHTING	156			10	1	1	2	1	10	222			LIGHTING	(2X2.5mm²)				
(2X2.5mm²)	RECEPTACLE		1728		20	1	3	4	1	20		1440		RECEPTACLE	(2X2.5mm²)				
(2X2.5mm²)	RECEPTACLE			1440	20	1	5	6	1	20			1872	RECEPTACLE	(2X2.5mm²)				
(2X2.5mm²)	RECEPTACLE	1728			20	1	7	8	1	20	1500			WATER HEATER	(2X4mm²)				
(2X6mm²)	SPARE				20	1	9	10	1	20				SPARE					
	SPARE				20	1	11	12	1	20				SPARE					
	SPARE				20	1	13	14	1	20				SPARE					
SUB TOTAL = (w)		1884	1728	1440							1722	1440	1872						
SUB TOTAL = (VA)		2355.00	2160.00	1800.00							2152.50	2152.50	2340.00						
VA AMP																			
TOTAL PHASE (A) =		4507.50	20.49	<div><div>PB02</div></div>															
TOTAL PHASE (B) =		4312.50	19.60																
TOTAL PHASE (C) =		4140.00	18.82																
TOTAL CONNECTED LOAD		12960.00	19.71																
DEMAND FACTOR		0.9																	
DEMAND LOAD		11664.00																	
20% FUTURE		2332.80																	
TOTAL LOAD		13996.80																	
TOTAL AMPERE		21.29																	


A

PR.B-A-01


SECOND FLOOR PANEL SCHEDUAL

SCALE: 1:150

LOGOS



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KEY-PLAN

NOTES :
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PROJECT NAME/CODE NO

PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
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SECOND FLOOR PANEL SCHEDUAL

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-111	12

SCALE	NTS	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :


EDESTA

PEDESTAL CONSTRUCTION COMPANY

PANEL BOARD NAME : PHOTOVOLTAIC SYSTEM - DB					50AMP BUSBAR RATE					MAIN BREAKER : 32 A					
PANEL LOCATION: SECOND FLOOR					220/380 VOLT , 3 PHASE , 4 WIRE , 50HZ					30KA ISC / 0.5 SEC SURFACE MOUNTED NEMA ENCLOSURE					
WIRE ,CONDUIT DESCRIPTION		PHASE			TRIP & CIRCUIT						PHASE			WIRE ,CONDUIT DESCRIPTION	
WIRE	DESCRIPTION	A (W)	B (W)	C (W)	AMP	POLE	CKT	CKT	POLE	AMP	A (W)	B (W)	C (W)	DESCRIPTION	WIRE
(2X4mm²)	LIGHTING	620			10	1	1	2	1	10	660			LIGHTING	(2X4mm²)
(2X4mm²)	LIGHTING		420		10	1	3	4	1	10		360		LIGHTING	(2X4mm²)
(2X4mm²)	LIGHTING			680	10	1	5	6	1	10			480	LIGHTING	(2X4mm²)
(2X4mm²)	RECEPTACLE	200			10	1	7	8	1	10	240			RECEPTACLE	(2X4mm²)
(2X4mm²)	RECEPTACLE		240		10	1	9	10	1	10		240		RECEPTACLE	(2X4mm²)
(2X4mm²)	RECEPTACLE			200	10	1	11	12	1	10			240	RECEPTACLE	(2X4mm²)
(2X4mm²)	SPARE				10	1	13	14	1	10				SPARE	(2X4mm²)
(2X6mm²)	SPARE				20	1	15	16	1	10				SPARE	
SUB TOTAL = (w)		820	660	880							900	600	720		
SUB TOTAL = (VA)		1025.00	825.00	1100.00							1125.00	1125.00	900.00		
VA AMP															
TOTAL PHASE (A) =		2150.00	9.77	<div><div>PVDB</div><div>1(4cX16mm²)Cu PVC/PVC CABEL TRAY 5cmX10cm</div><div>POWER RISER DIAGRAM</div></div>											
TOTAL PHASE (B) =		1950.00	8.86												
TOTAL PHASE (C) =		2000.00	9.09												
TOTAL CONNECTED LOAD		6100.00	9.28												
DEMAND FACTOR		0.9													
DEMAND LOAD		5490.00													
20% FUTURE		1098.00													
TOTAL LOAD		6588.00													
TOTAL AMPERE		10.02													

A

PHOTOVOLTAIC SYSTEM PANEL SCHEDUAL

PR.B-A-01

SCALE: 1:150

LOGOS

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Hilfe zur Selbsthilfe

KEY-PLAN

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PHOTOVOLTAIC SYSTEM PANEL SCHEDUAL

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-112	13

SCALE	NTS	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

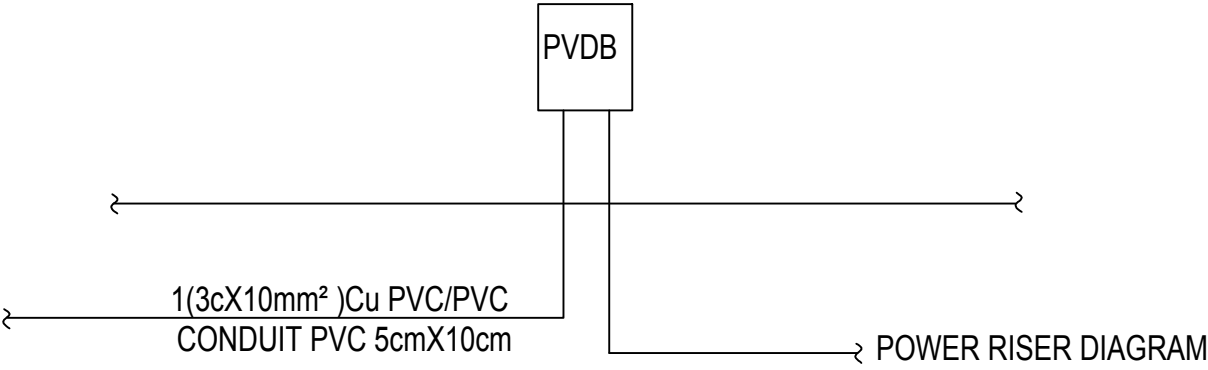
DESIGN AGENCY :

شركت ساختمانی پدستال

EDESTA

PEDESTAL CONSTRUCTION COMPANY

PANEL BOARD NAME : GURD ROOM - DB 3			32AMP BUSBAR RATE		
MAIN BREAKER : 32 A					
PANEL LOCATION: SECOND FLOOR			220 VOLT , 1 PHASE , 2 WIRE ,		
50HZ			30KA ISC / 0.5 SEC SURFACE MOUNTED NEMA ENCLOSURE		
WIRE ,CONDUIT DESCRIPTION		PHASE	TRIP & CIRCUIT		
WIRE	DESCRIPTION	A (W)	AMP	POLE	CKT
(2X2.5mm²)	LIGHTING	156	10	1	1
(2X2.5mm²)	RECEPTACLE	1584	20	1	3
(2X4mm²)	LIGHTING - PROJECTOR	1200	20	1	5
(2X2.5mm²)	LIGHTING	468	10	1	7
	SPARE		10	1	13
	SPARE		20	1	15
SUB TOTAL = (w)		3408			
SUB TOTAL = (VA)		4260.00			



A

GUARD ROOM PANEL SCHEDUAL

PR.B-A-01

SCALE: 1:150

LOGOS

KEY-PLAN

NOTES :

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PROJECT NAME/CODE NO

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TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE

GUARD ROOM PANEL SCHEDUAL

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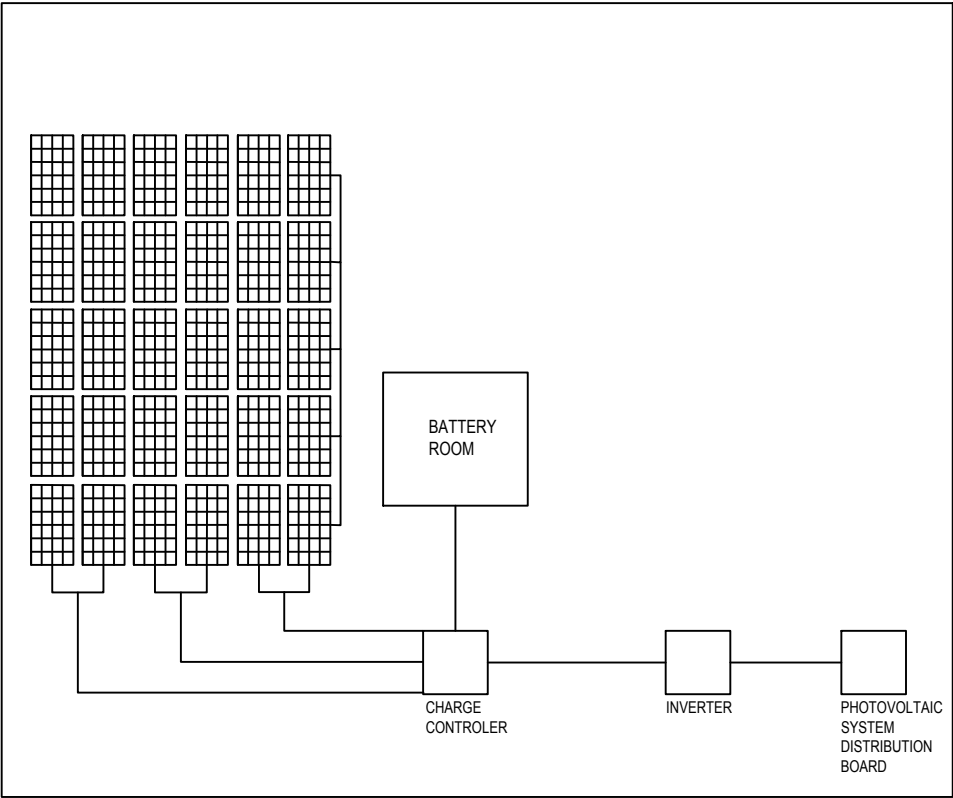
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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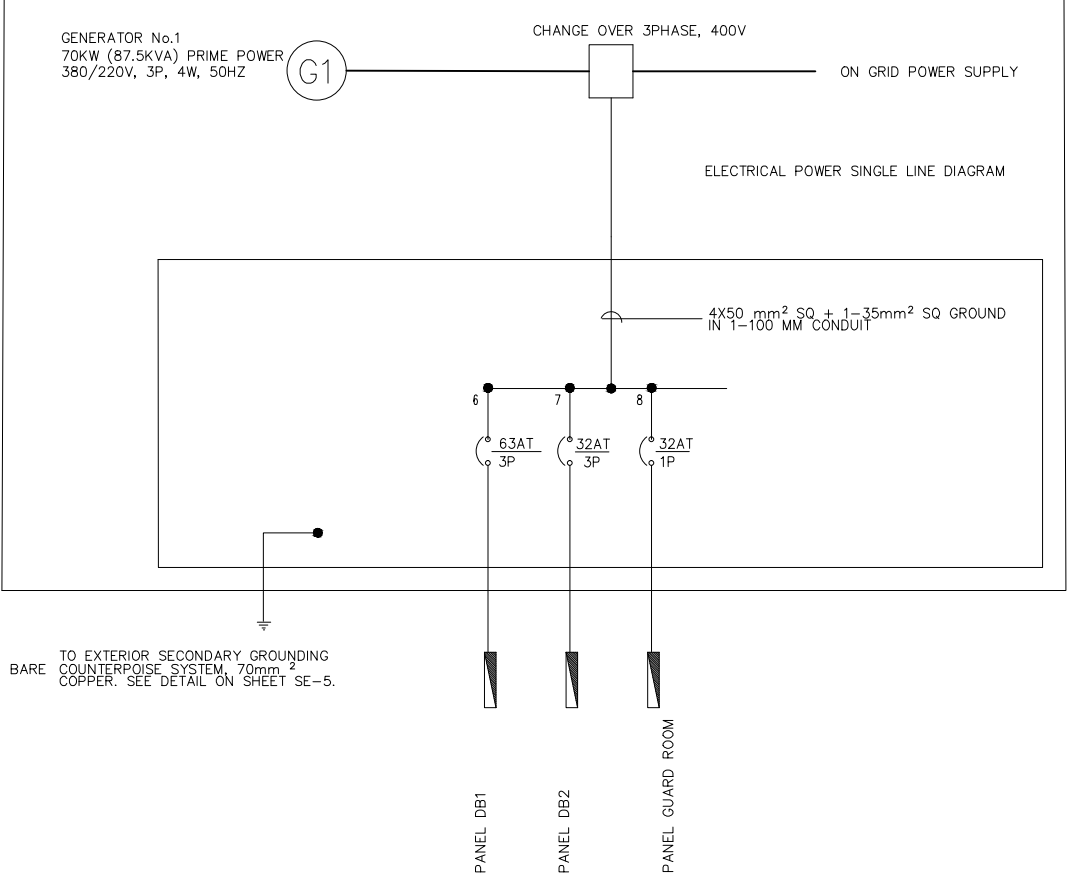
SCALE	NTS	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY




A | PHOTOVOLTAIC SYSTEM DIAGRAM
PR.B-A-01 | SCALE: 1:150




A | POWER SINGLE LINE DIAGRAM
PR.B-A-01 | SCALE: 1:150

LOGOS



PATRIP
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Hilfe zur Selbsthilfe

KEY-PLAN

NOTES :
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PATRIP FOUNDATION


PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
POWER SINGLE LINE DIAGRAM & PHOTOVOLTAIC SYSTEM DIAGRAM

ISSUED FOR
REVISION

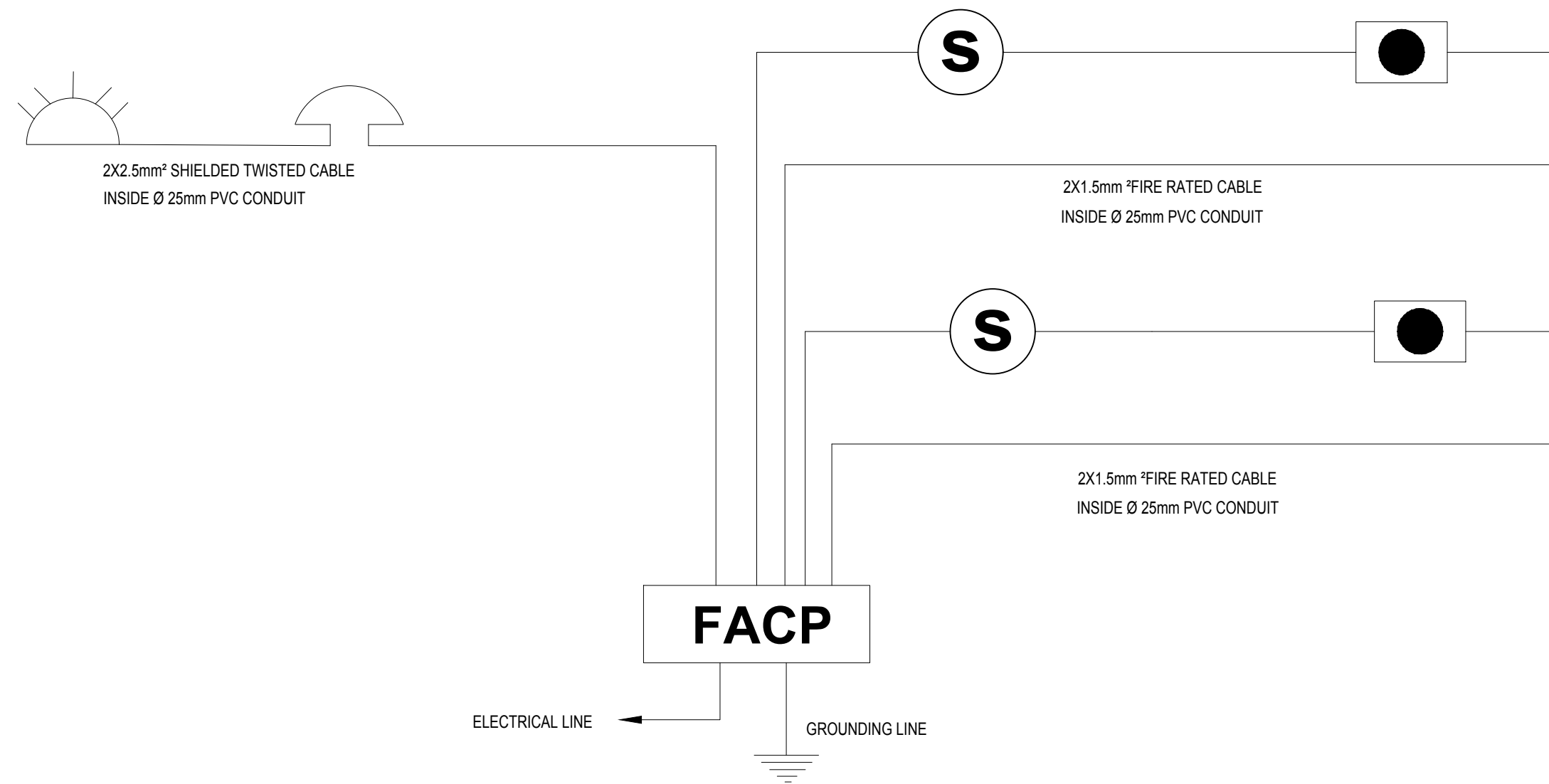
PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-114	15

SCALE	NTS	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :



EDESTA

PEDESTAL CONSTRUCTION COMPANY




A | FIRE ALARM SINGLE LINE DIAGRAM
PR.B-A-01 | SCALE: 1:150

LOGOS



PATRIP
FOUNDATION



Help
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KEY-PLAN

NOTES :
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REVISIONS

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PROJECT NAME/CODE NO
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TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
FIRE ALARM SINGLE LINE DIAGRAM

ISSUED FOR
REVISION

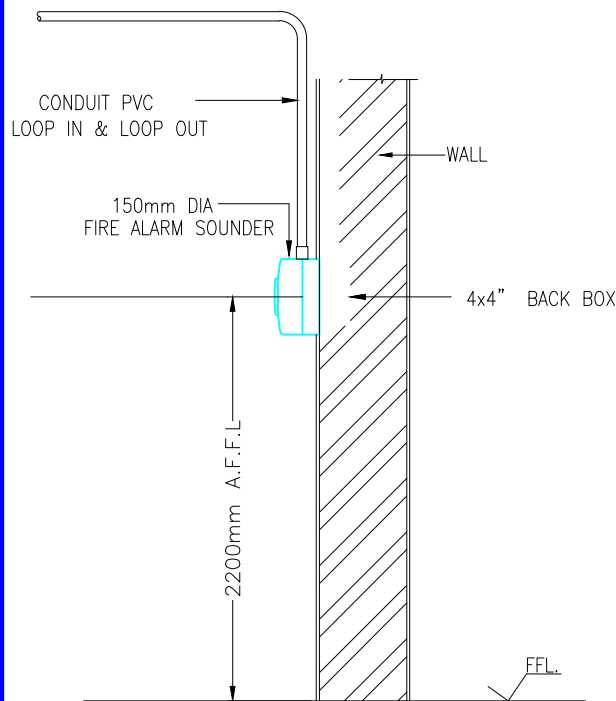
PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-115	16

SCALE	NTS	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

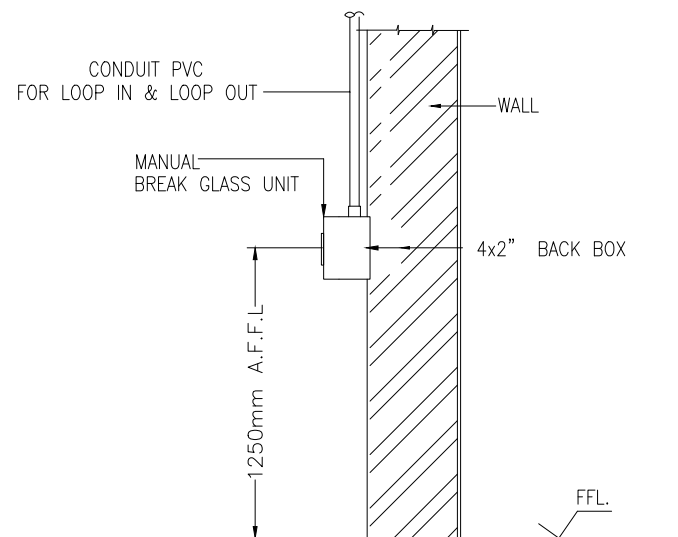
DESIGN AGENCY :


EDESTA
PEDESTAL CONSTRUCTION COMPANY

PEDESTAL CONSTRUCTION COMPANY

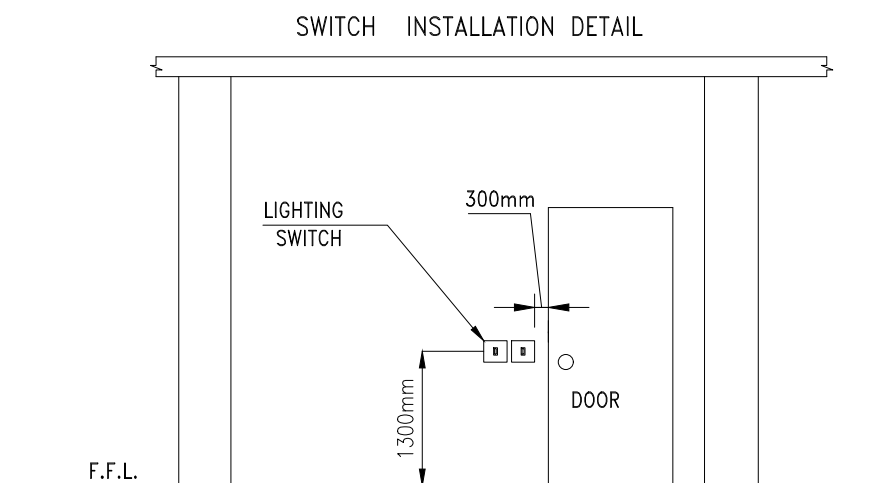


TYPICAL INSTALLATION DETAIL FOR
SURFACE MOUNTED FIRE ALARM SOUNDER
SCALE - NTS



TYPICAL INSTALLATION DETAIL FOR
MANUAL BREAK GLASS UNIT
SCALE - NTS

A FIRE ALARM ISNTALATION DETAILS
PR.B-A-01 SCALE: 1:150



07 LIGHT SWITCH MOUNTING
REF. SCALE N.T.S

LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

REVISIONS				
DATE	DESCRIPTION	DRN	BY	CHK BY/APP BY

CLIENT
HELP OFFICE - HERAT
DONOR
PATRIP FOUNDATION

PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
INSTALLATION DETAILS

ISSUED FOR
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-116	17

SCALE	NTS	DATE	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :

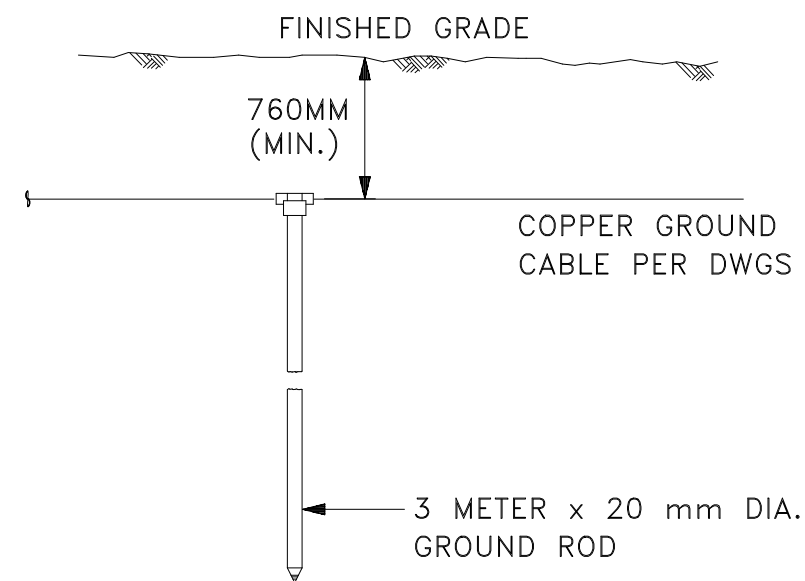
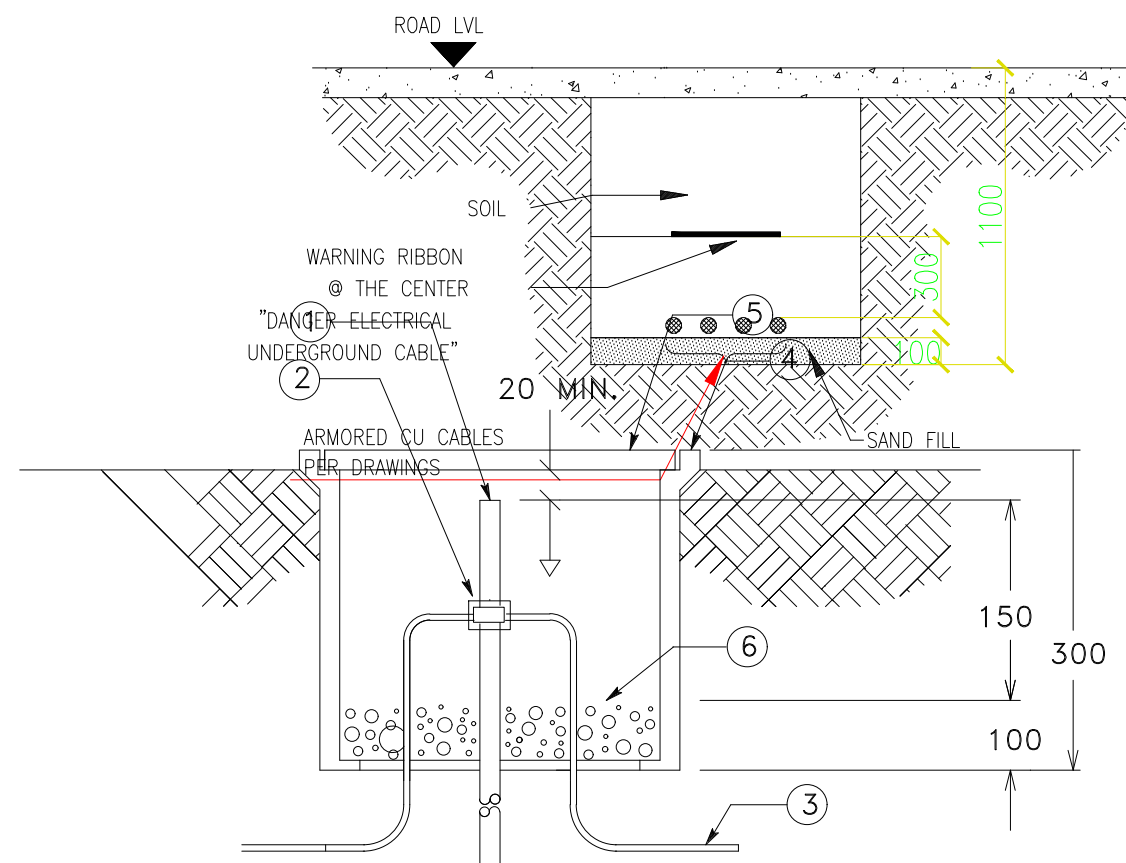
PEDESTAL CONSTRUCTION COMPANY

MATERIAL LIST

- ① GROUND ROD
- ② BOLTED CONNECTION
- ③ GROUNDING CONDUCTOR 70mm COPPER
- ④ POLYMER CONCRETE FIBERGLASS REINFORCED BOX
- ⑤ COVER FOR ABOVE BOX
- ⑥ GRAVEL OR CRUSHED STONE

NOTES:

1. BOLTED CONNECTION SHALL BE USED IN ACCESS WELL, AND EXOTHERMIC ELSE WHERE.
2. EXOTHERMIC WELDS SHALL BE AS RECOMMENDED BY MANUFACTURER FOR THE SIZE OF CONNECTION AND MATERIAL INVOLVED.



A | DETALES OF GROUNDING

PR.B-A-01

SCALE: 1:150

LOGOS

PATRIP
FOUNDATION

Help
Hilfe zur Selbsthilfe

KEY-PLAN

NOTES:

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

REVISIONS				
DATE	DESCRIPTION	DRN	CHK	BY APP

CLIENT
HELP OFFICE - HERAT

DONOR
PATRIP FOUNDATION

PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER, KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
DETAILS OF GROUNDING

ISSUED FOR
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-117	18

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CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY: ENG. BESMULLAH FOR
APPROVED BY:

DESIGN AGENCY :
EDESTA
PEDESTAL CONSTRUCTION COMPANY

WATER HEATER SCHEDULE

CAPACITY	80 LITER
WATTAGE(KW)	1.5KW

WATER COOLER SCHEDULE

UNIT NUMBER	BTU/HR	WATTAGE (KW)	ELECTRICAL DATA			THERMOSTAT TYPE	REMARKS
			VOLTS	PHASE	HERTZ		
WC-01		0.6	220	1	50	SINGLE POLE	ROOF MOUNTED

EXHAUST FAN SCHEDULE

UNIT NUMBER	AIR QUANTITY		RPM	ELECTRICAL DATA				REMARKS
	CMH	CFM		WATTS	VOLTS	PHASE	HERTZ	
EF-01	850	500	1300	80	230	1	50	WALL MOUNTED

A TECHNICAL MECHANICAL DETAILS

PR.B-A-01

SCALE: 1:150

LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

CLIENT

HELP OFFICE - HERAT

DONOR

PATRIP FOUNDATION

PROJECT NAME/CODE NO

PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE

TECHNICAL MECHANICAL SPECIFICATION

ISSUED FOR

REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	E-118	19

SCALE	NTS	DATE:	DEC.23.2020
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DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY