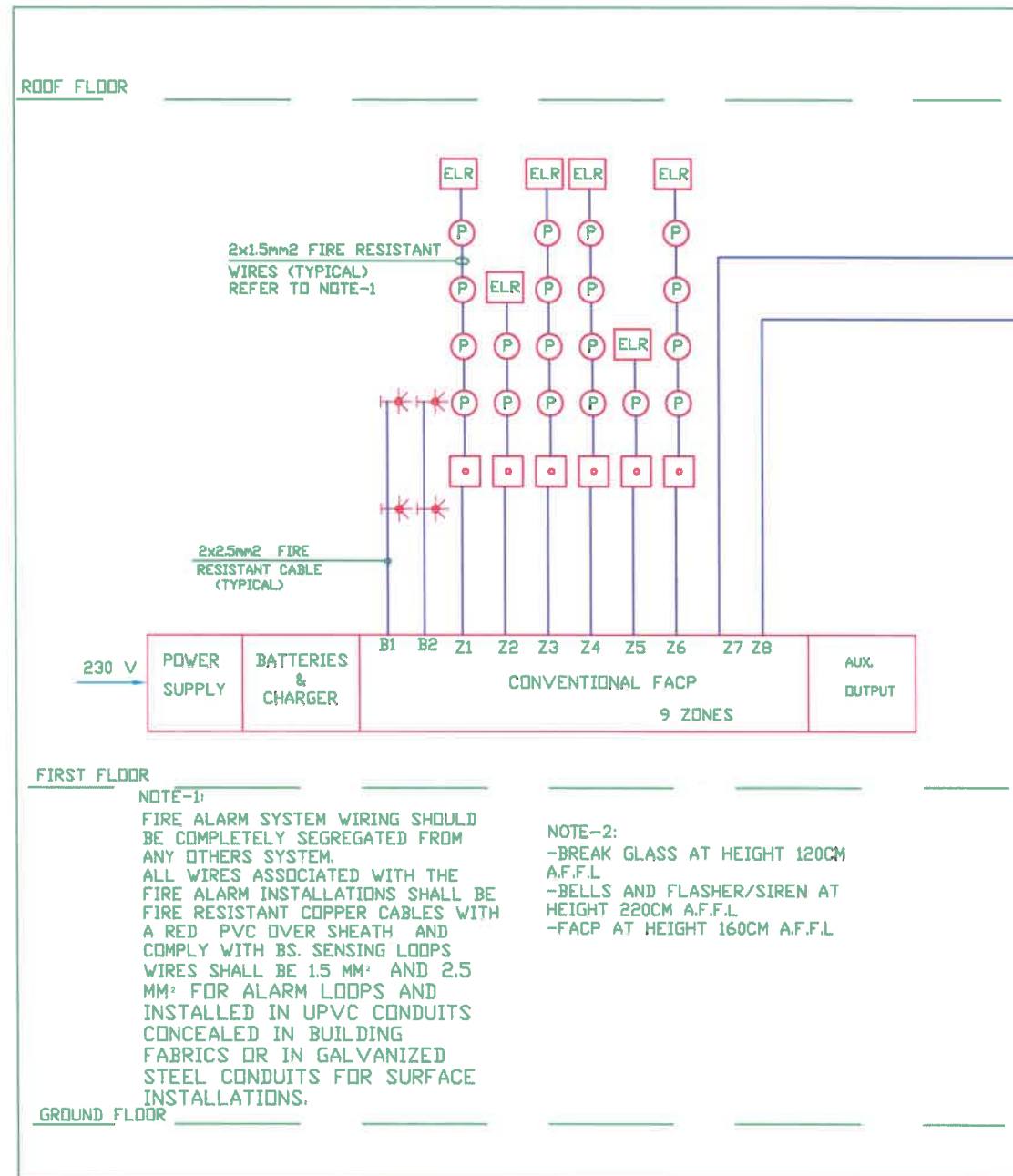


AEROSOL FIRE PROTECTION SYSTEM IN TRANSFORMER ROOMS (1) AND (2)



FIRE ALARM SYSTEMS	
SYMBOL	DESCRIPTION
(P)	CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR
□	MANUAL BREAK GLASS, INDOOR
⊛	FIRE ALARM AUDIO/VISUAL DEVICE - FLASHER/SIREN
[ELR]	END OF LINE RESISTANCE
[FACP]	FIRE ALARM CONTROL PANEL



Client

GJU
الجامعة الألمانية الأردنية
German Jordanian University

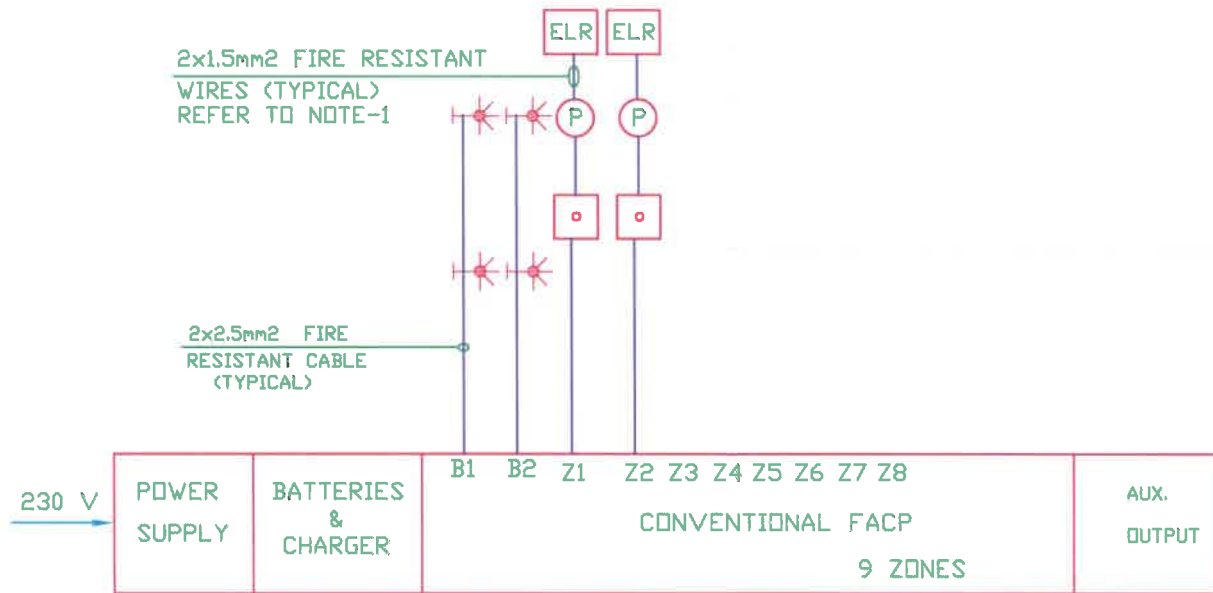
Consultant
German Jordanian University

GERMAN - JORDANIAN UNIVERSITY
ELECTRICAL SUBSTATION

Proposed Riser Diagram

Project B07	Sheet 01
Date	
Scale 1/100	

ROOF FLOOR



FIRST FLOOR

NOTE-1:
 FIRE ALARM SYSTEM WIRING SHOULD BE COMPLETELY SEGREGATED FROM ANY OTHERS SYSTEM. ALL WIRES ASSOCIATED WITH THE FIRE ALARM INSTALLATIONS SHALL BE FIRE RESISTANT COPPER CABLES WITH A RED PVC OVER SHEATH AND COMPLY WITH BS. SENSING LOOPS WIRES SHALL BE 1.5 MM² AND 2.5 MM² FOR ALARM LOOPS AND INSTALLED IN UPVC CONDUITS CONCEALED IN BUILDING FABRICS OR IN GALVANIZED STEEL CONDUITS FOR SURFACE INSTALLATIONS.

NOTE-2:
 -BREAK GLASS AT HEIGHT 120CM A.F.F.L
 -BELLS AND FLASHER/SIREN AT HEIGHT 220CM A.F.F.L
 -FACP AT HEIGHT 160CM A.F.F.L

GROUND FLOOR

General Notes

KEY PLAN



Client



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 ELECTRICAL SUBSTATION

As Built Riser Diagram

Project
B07

Date

Scale
1/100

Sheet

02



General Notes



Client

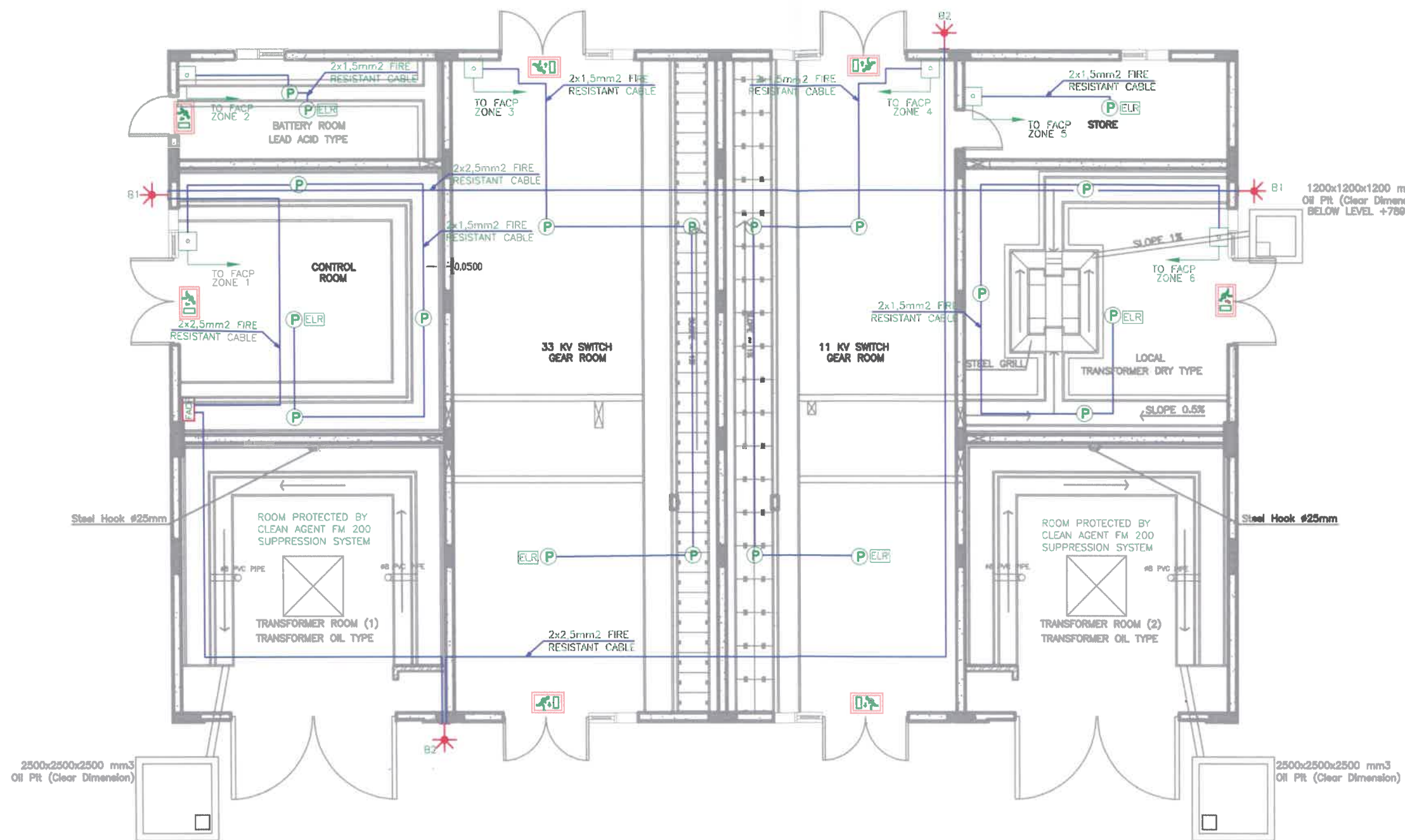


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Consultant

German Jordanian University

AMMAN - JORDAN



GERMAN - JORDANIAN UNIVERSITY
ELECTRICAL SUBSTATION

Proposed Fire alarm



Project B07	Sheet 03
Date	
Scale 1/100	

General Notes

KEY PLAN



Client



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University

1999 - 2008

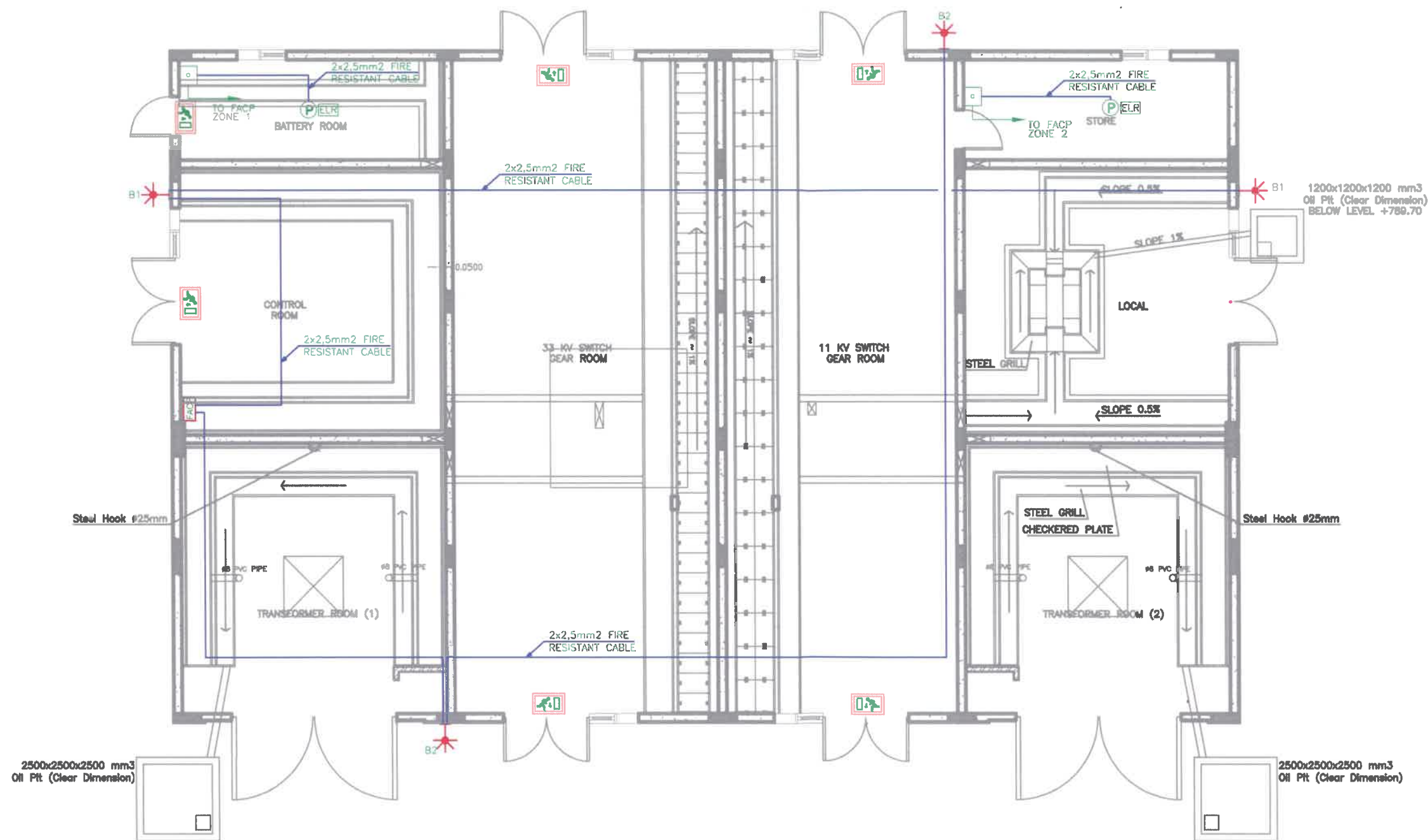
GERMAN - JORDANIAN UNIVERSITY
ELECTRICAL SUBSTATION

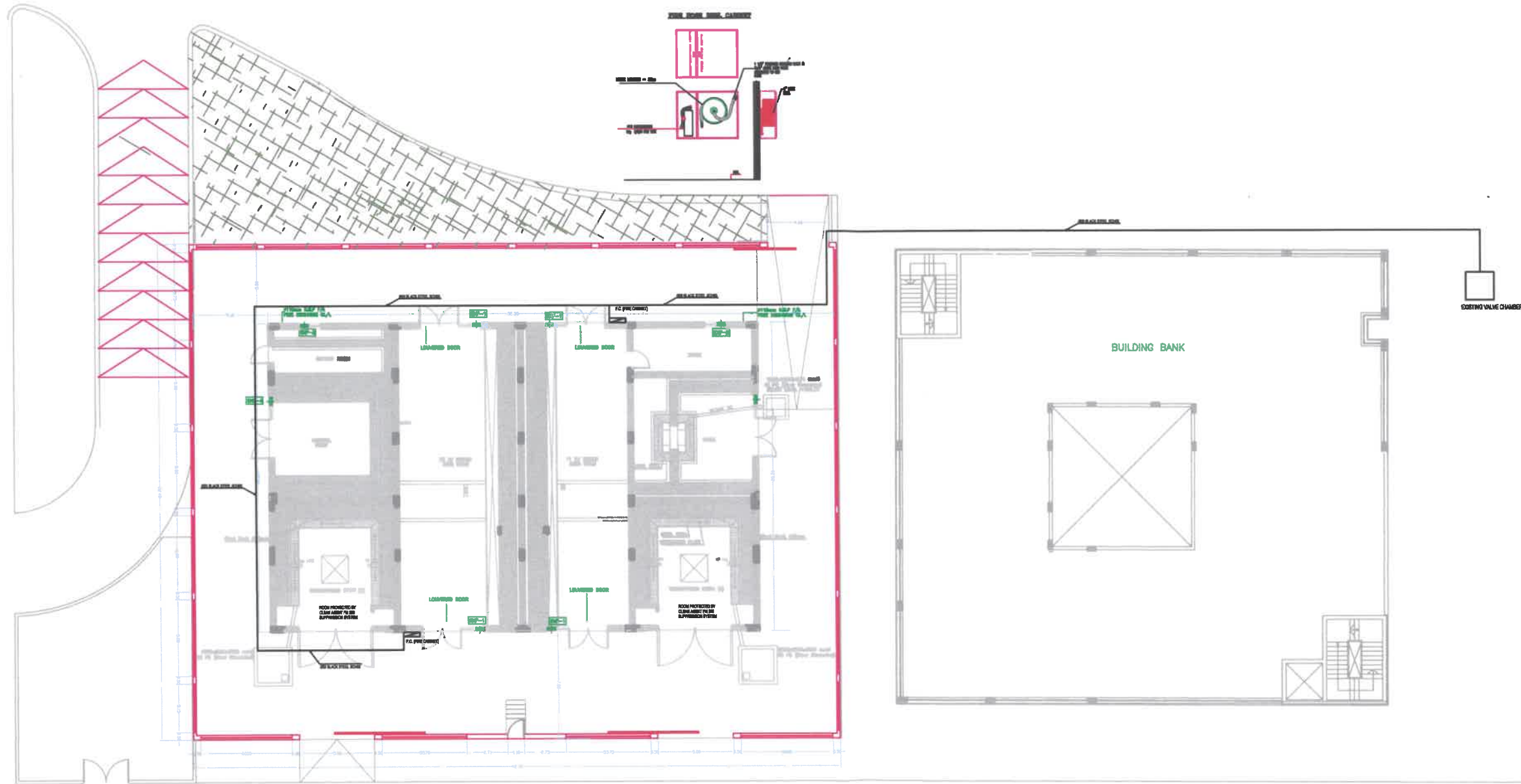
Existing Fire alarm

Project
B07
Date
Scale
1/100

Sheet

04





General Notes



Client



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German Jordanian University

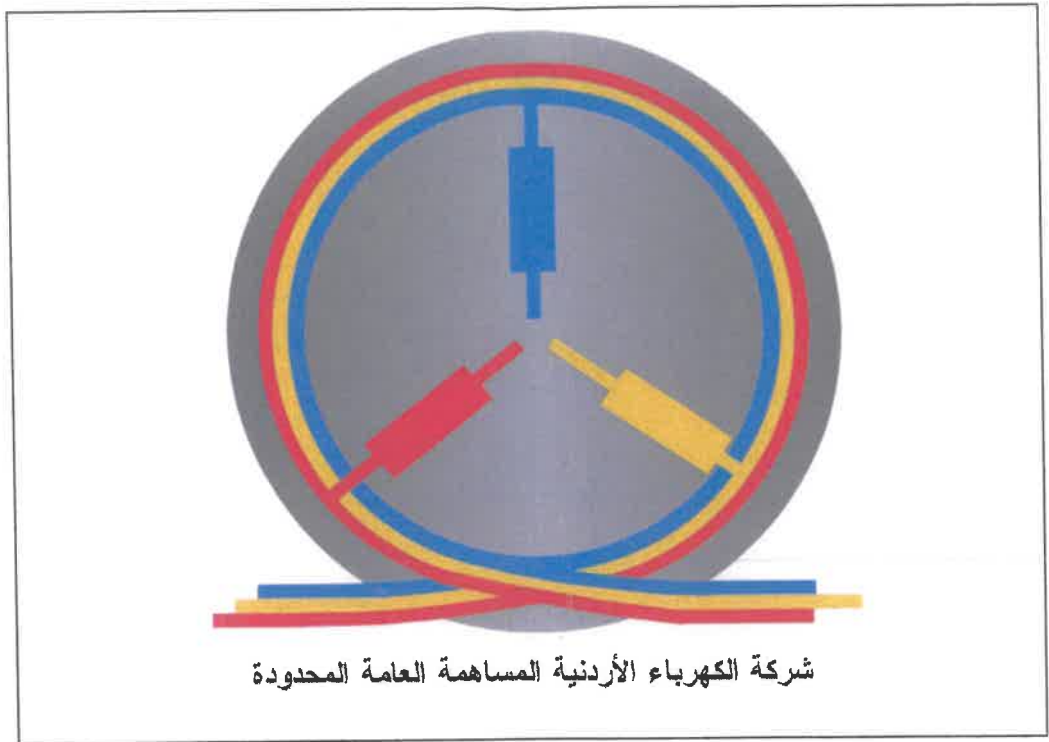
Amman - Jordan

GERMAN - JORDANIAN UNIVERSITY
ELECTRICAL SUBSTATION

FIRE HOSE



Project B07	Sheet 05
Date	
Scale 1/100	



GERMAN - JORDANIAN UNIVERSITY ELECTRICAL SUBSTATION

AS BUILT DRAWINGS

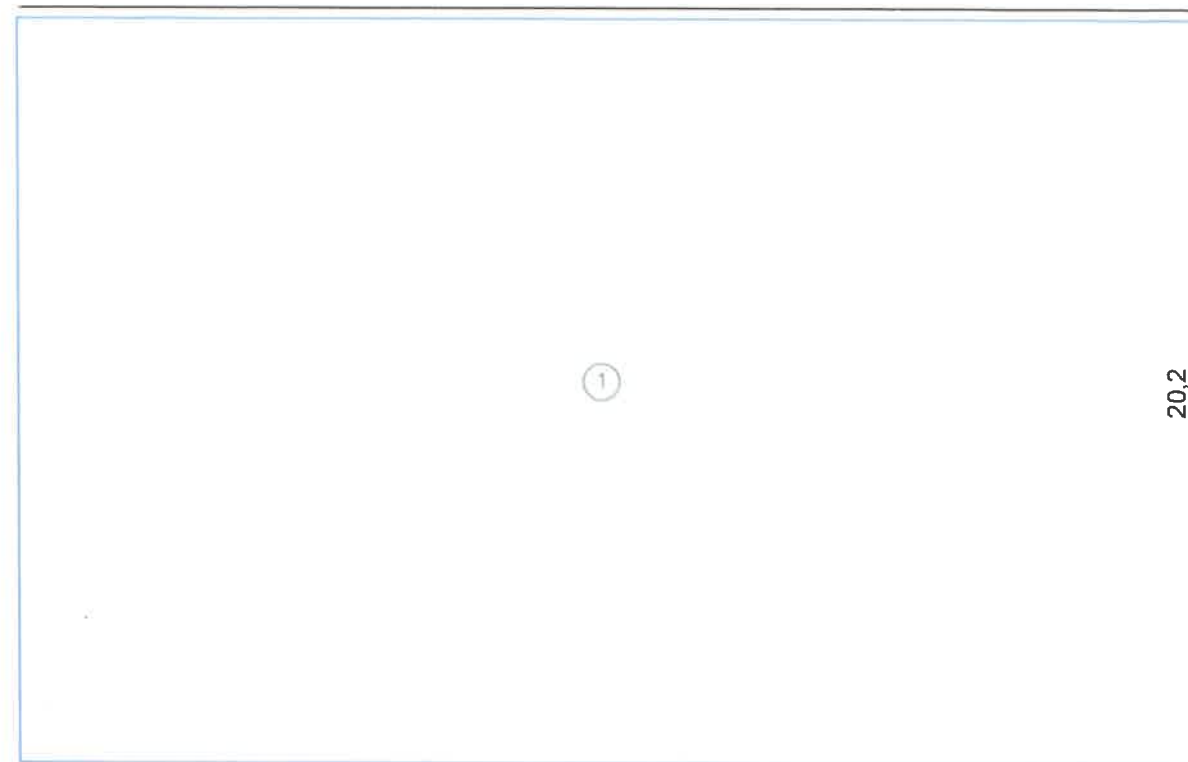
مديرية الأمن العام / مديرية الدفاع المدني
إدارة الوقاية والحماية الثانية
الرسوم هندسية
مستودع / فرع القطراني

10/10/2019
10/10/2019

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 engineers & architects
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Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:



OIL PIT AREA (TRANSFORMER ROOMS)

NO	CALCULATION	AREA (+)
1	(2.50 X 2.50) X 2	12.50
GROUND FLOOR TOTAL AREA		12.50 m2

TOTAL SUBSTATION AREA = 12.50 m2

OIL PIT AREA (LOCAL ROOMS)

NO	CALCULATION	AREA (+)
1	1.605 X 1.605	2.57
GROUND FLOOR TOTAL AREA		2.57 m2

TOTAL SUBSTATION AREA = 2.57 m2

GROUND FLOOR AREA

NO	CALCULATION	AREA (+)
1	32.35 X 20.20	653.47
GROUND FLOOR TOTAL AREA		653.47 m2

TOTAL SUBSTATION AREA = 653.47 m2

TOTAL SUBSTATION AREA

	CALCULATION	AREA (+)
GROUND FLOOR	32.35 X 20.20	653.47
OIL PIT(LOCAL)	(2.50 X 2.50) X 2	12.50
OIL PIT(TRANSFORMER)	1.605 X 1.605	2.57
GROUND FLOOR TOTAL AREA		668.54 m2

TOTAL SUBSTATION AREA = 668.54 m2

الحفاة المراد ترخيصها
 ٢٠٢١
 Add

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PROJECT

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PROJECT
 GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION

AS Built Drawing

DRAWN BY : GJU Engineering Department

Area Schedule	SCALE
DRAWING NO. A1	1/100

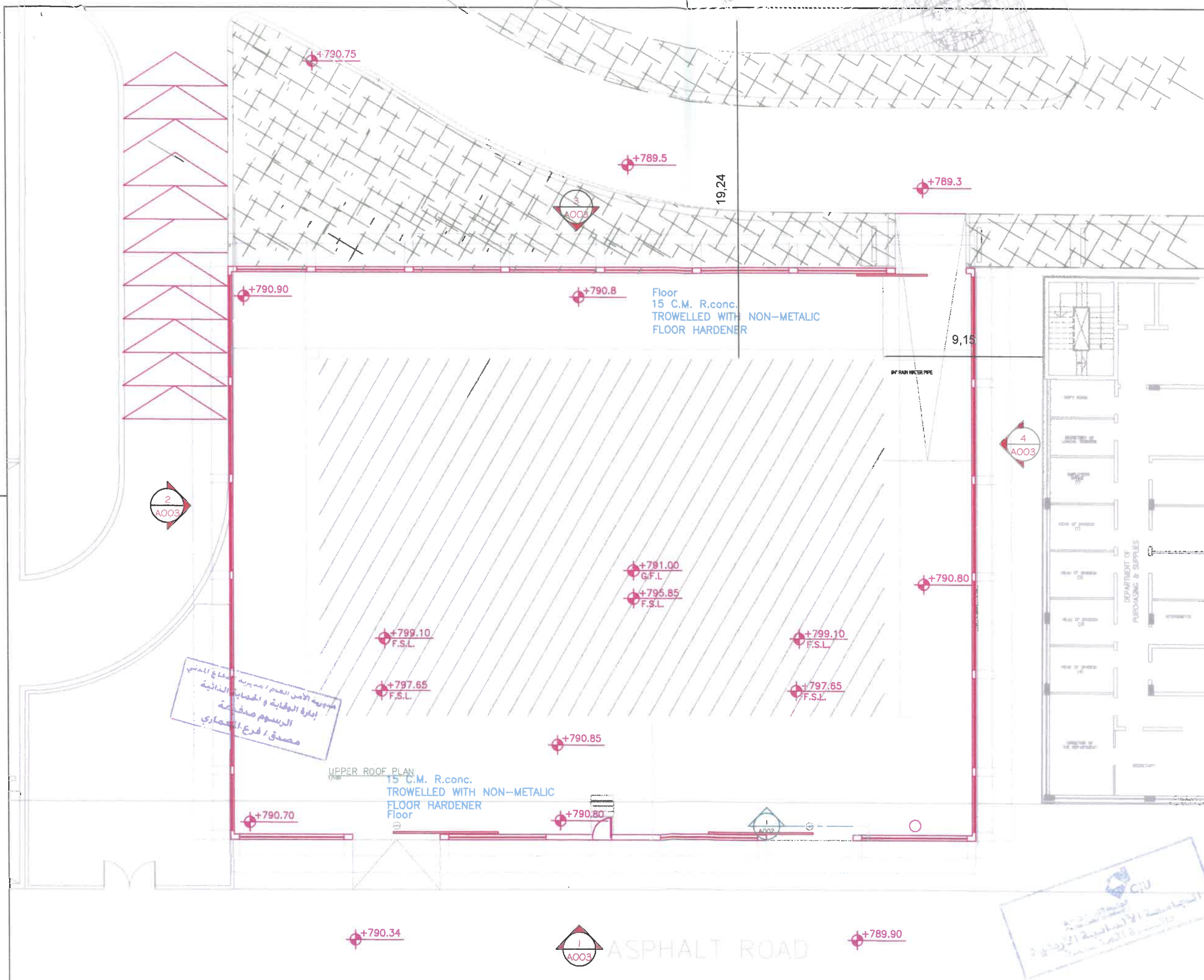


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Construction Contractor :
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NOTES:



المدرسة الامن العام / مديرية الدفاع المدني
 ادارة الوقاية والحماية النائية
 الرسم مرفقة
 مصدق / فرع اقصاري

UPPER ROOF PLAN
 15 C.M. R.conc.
 TROWELLED WITH NON-METALIC
 FLOOR HARDENER
 Floor

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 Jordanian University of Science and Technology
 عمان - الأردن



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**GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION**

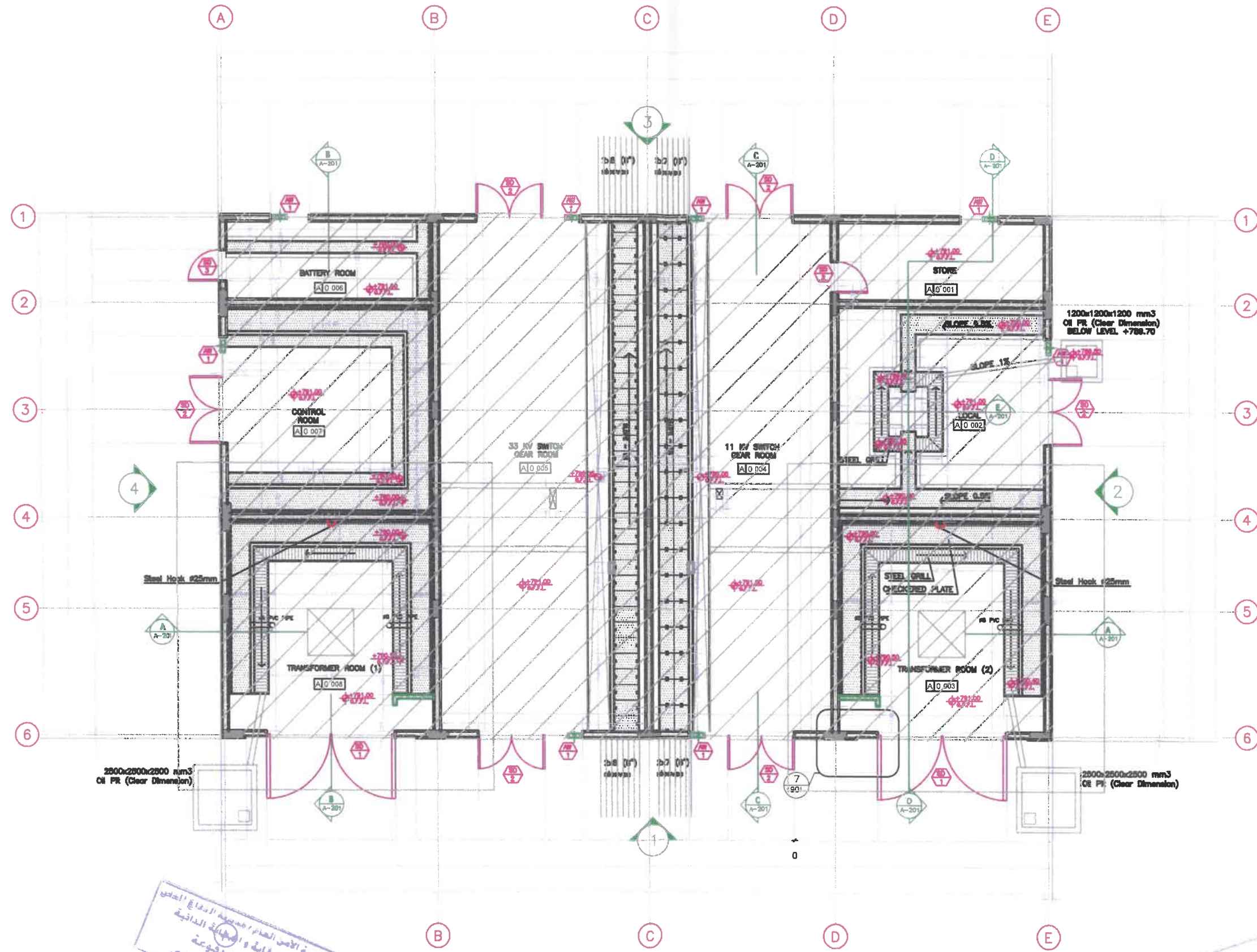
AS Built Drawing
 DRAWN BY : GJU Engineering Department

Site Plan	SCALE	1/100
DRAWING NO	A2	

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NOTES:



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 ELECTRICAL SUBSTATION

AS Built Drawing
 DRAWN BY : GJU Engineering Department

Ground Floor SCALE: 1/100
 DRAWING NO. A3

مديرية الأمن العام - مديرية الدفاع المدني
 إدارة الوقاية و الهياكل الدائرية
 الرسم مذكورة
 مصنع: فرع العمارة

مديرية الأمن العام - مديرية الدفاع المدني
 إدارة الوقاية و الهياكل الدائرية
 الرسم مذكورة
 مصنع: فرع العمارة

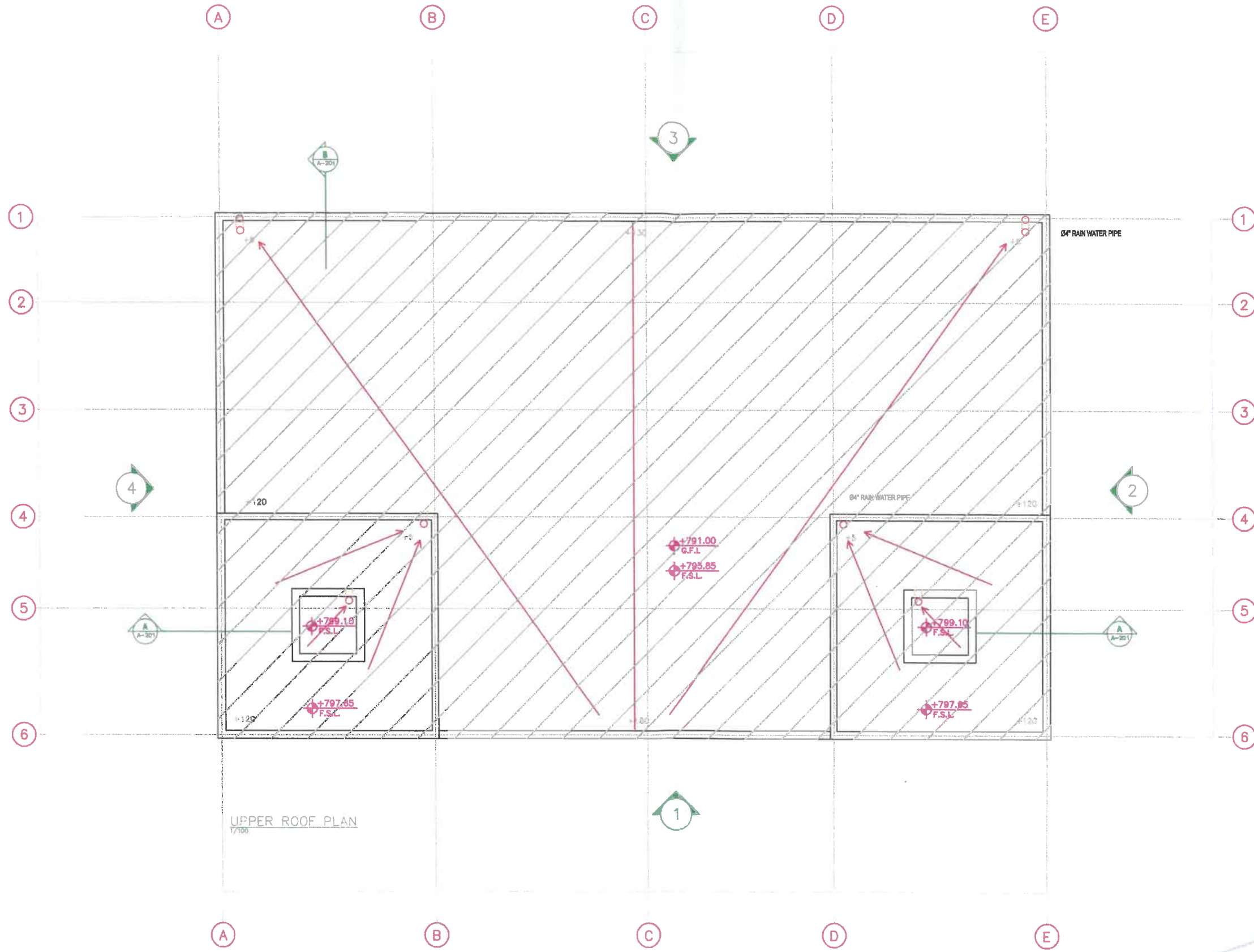
Designed By :
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Construction Contractor :

Great Jerusalem
 Contracting Corp.

NOTES:-



UPPER ROOF PLAN
 1/100

KEY PLAN



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GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION

AS Built Drawing

DRAWN BY : GJU Engineering Department

Roof Floor SCALE: 1/100

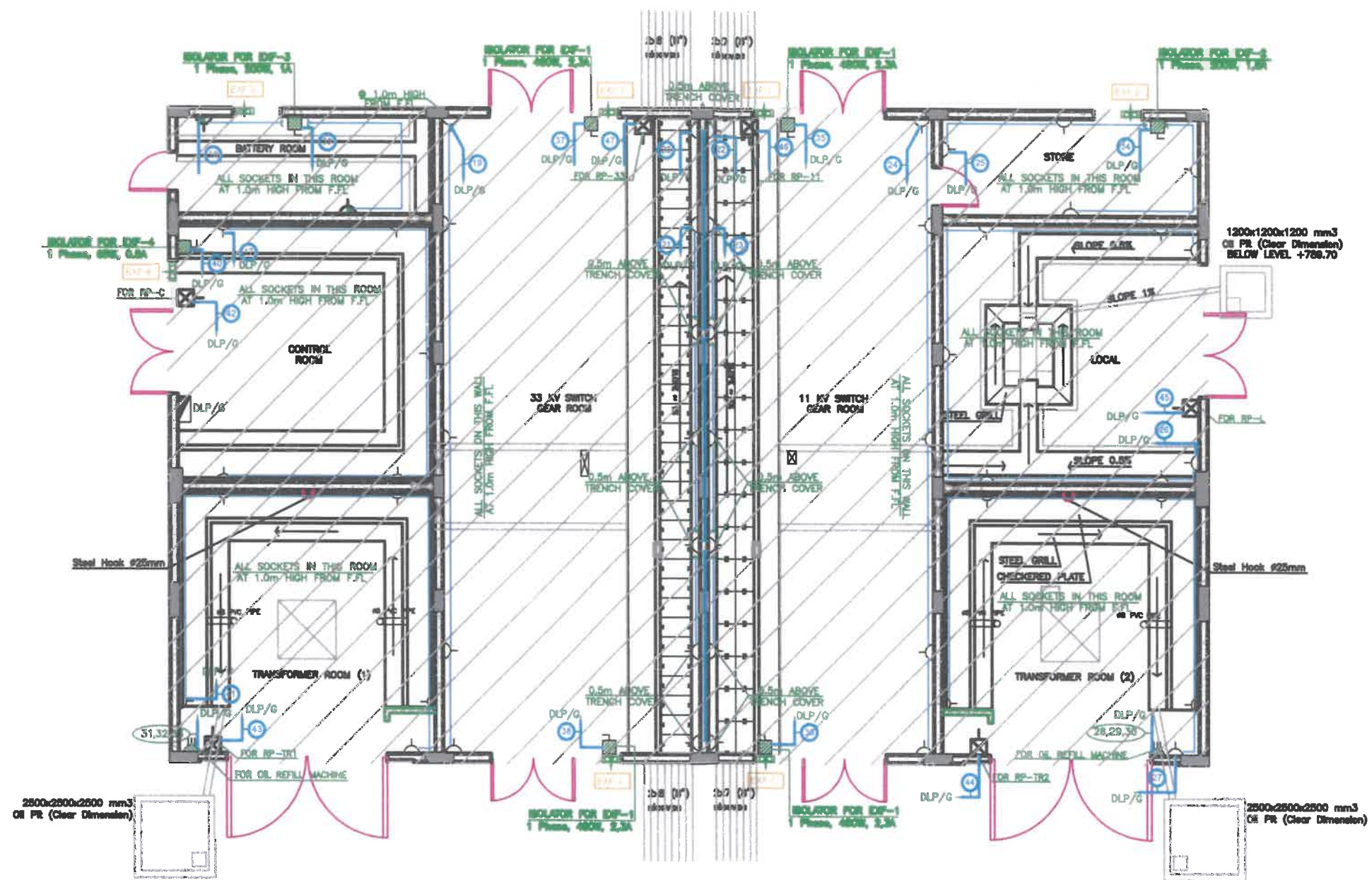
DRAWING NO. A4



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Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:-



KEY PLAN



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GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION

AS Built Drawing

DRAWN BY : GJU Engineering Department

Power System SCALE 1/100

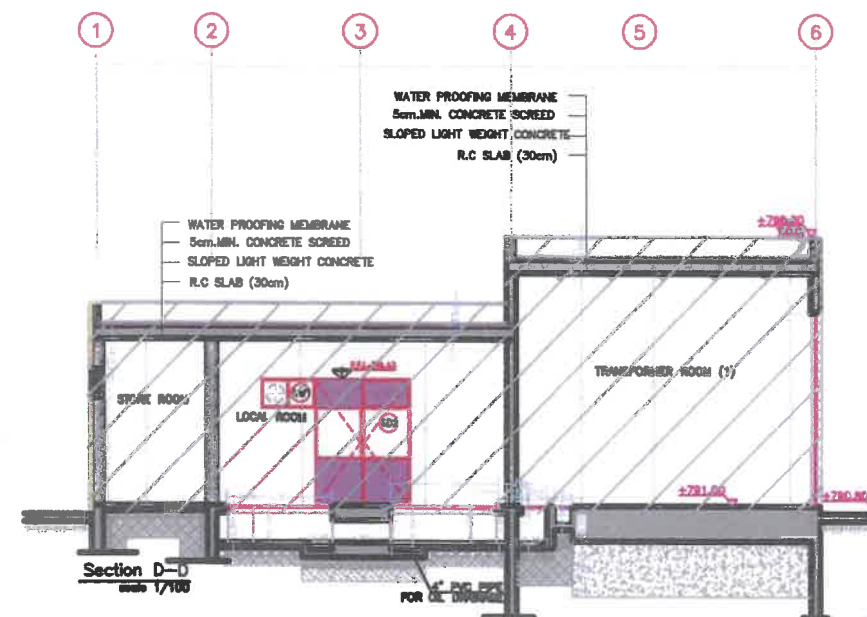
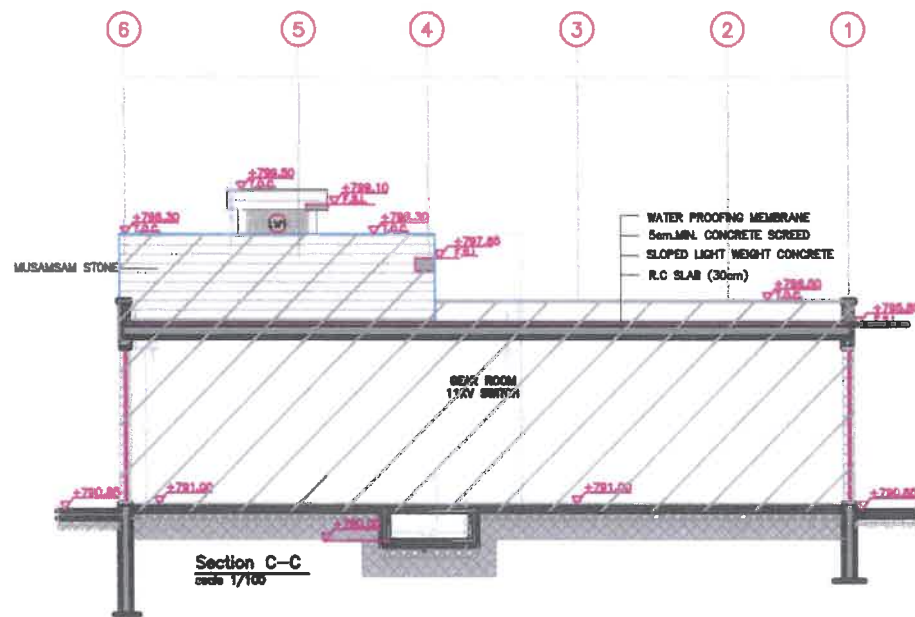
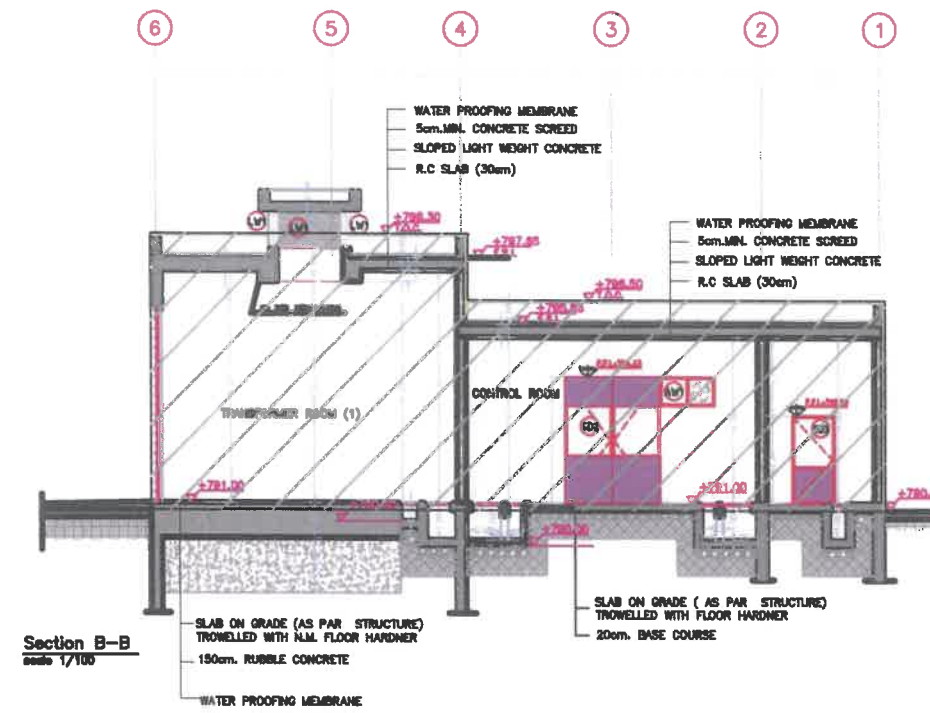
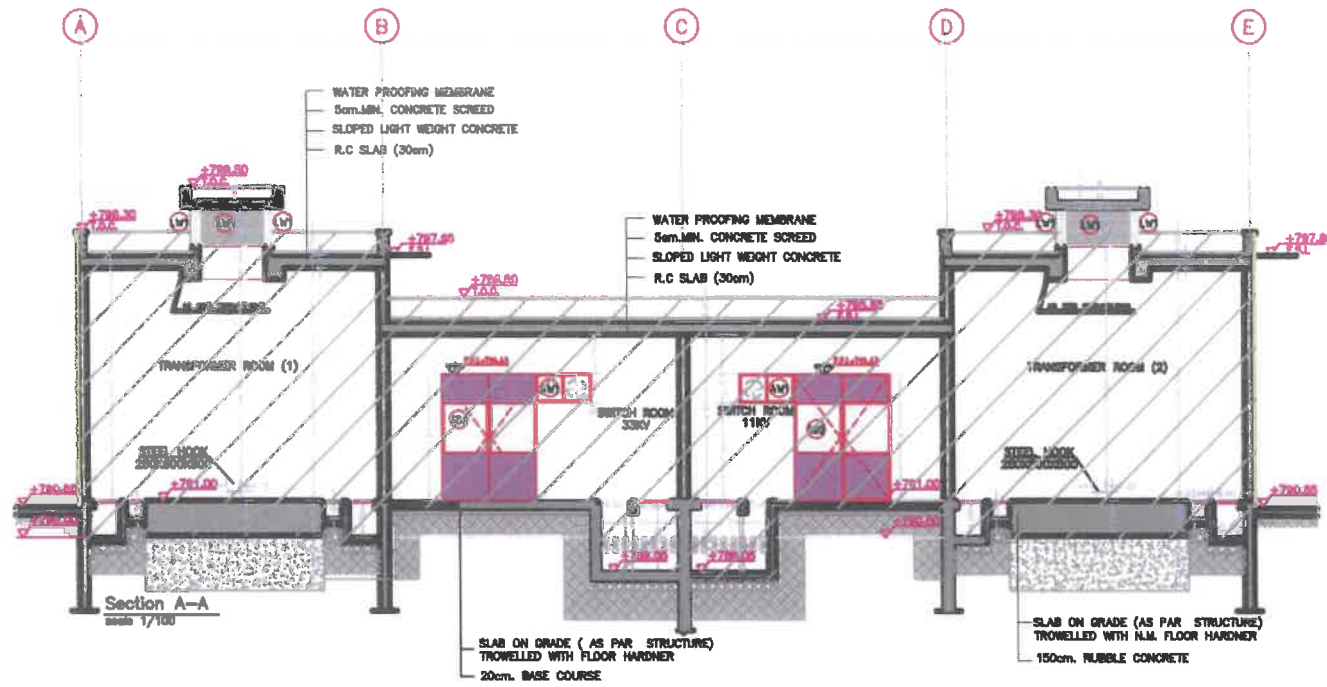
DRAWING NO. E04

Handwritten signature and stamp in the bottom right corner of the drawing area.

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Construction Contractor :
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NOTES:-



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 ELECTRICAL SUBSTATION

AS Built Drawing

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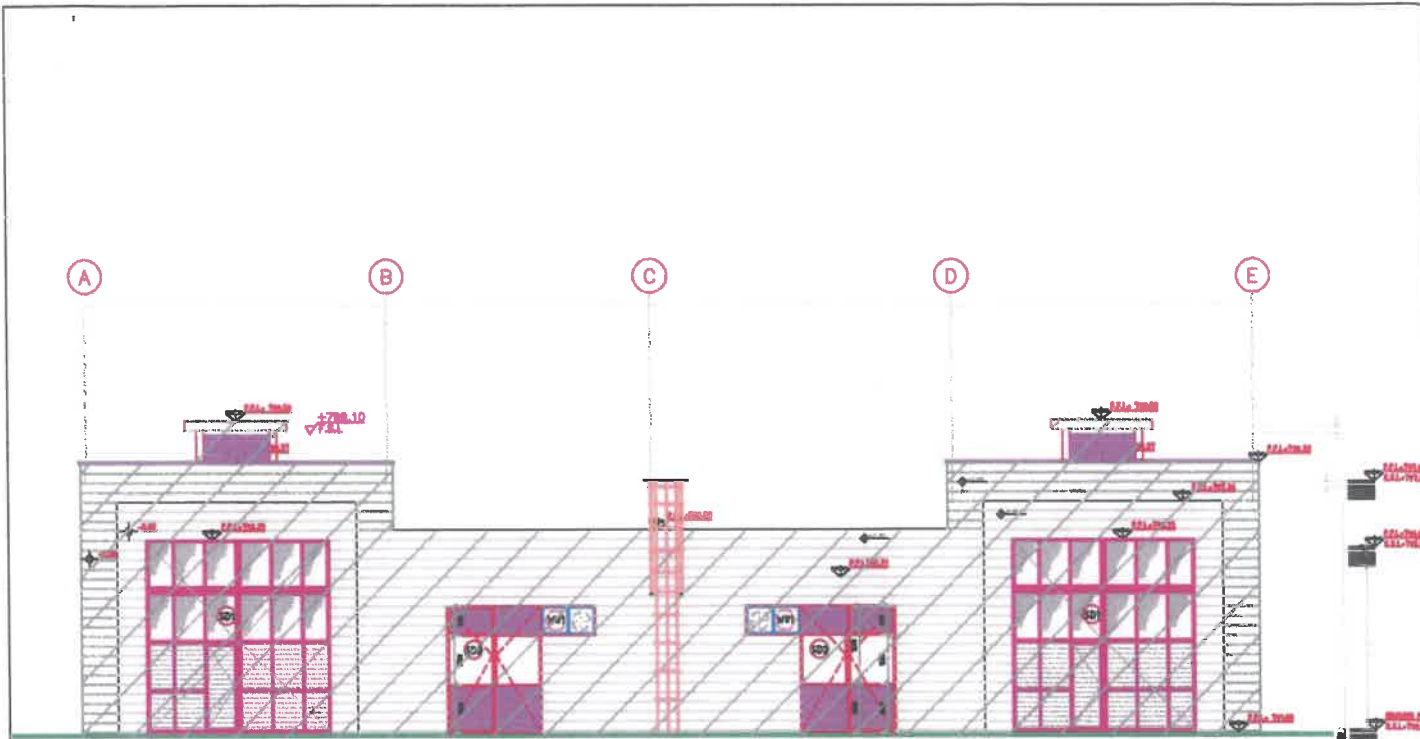
Sections SCALE: 1/100

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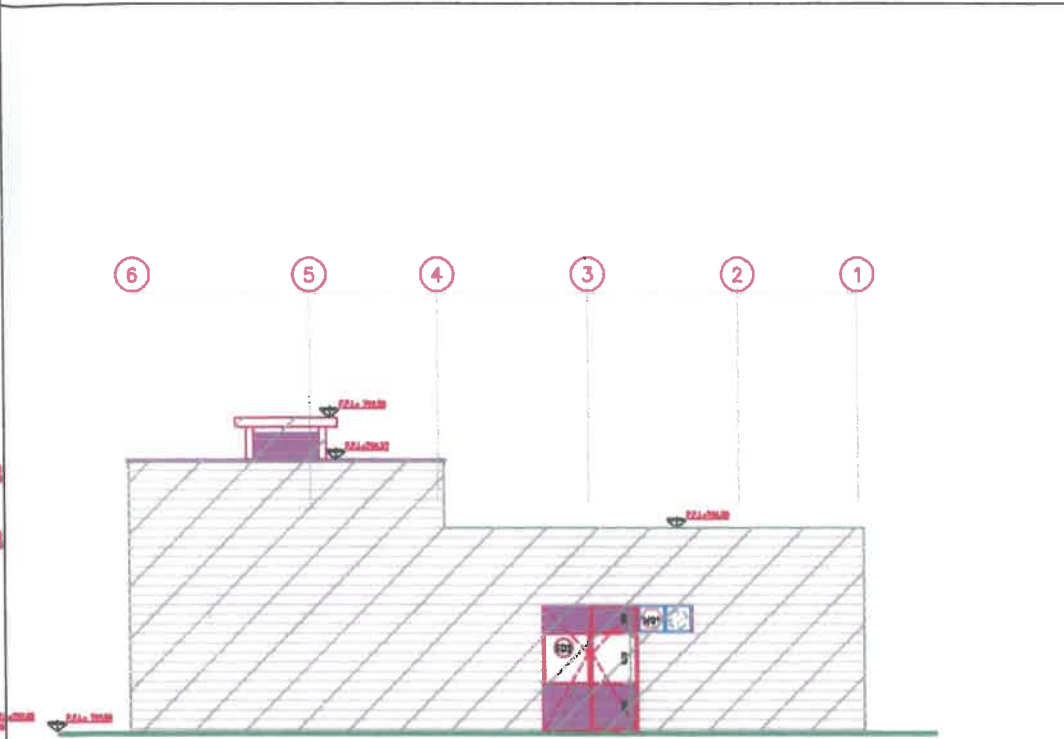
Designed By :
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 P.O.BOX 9532 Amman 11191 Jordan

Construction Contractor :
Great Jerusalem Contracting Corp.

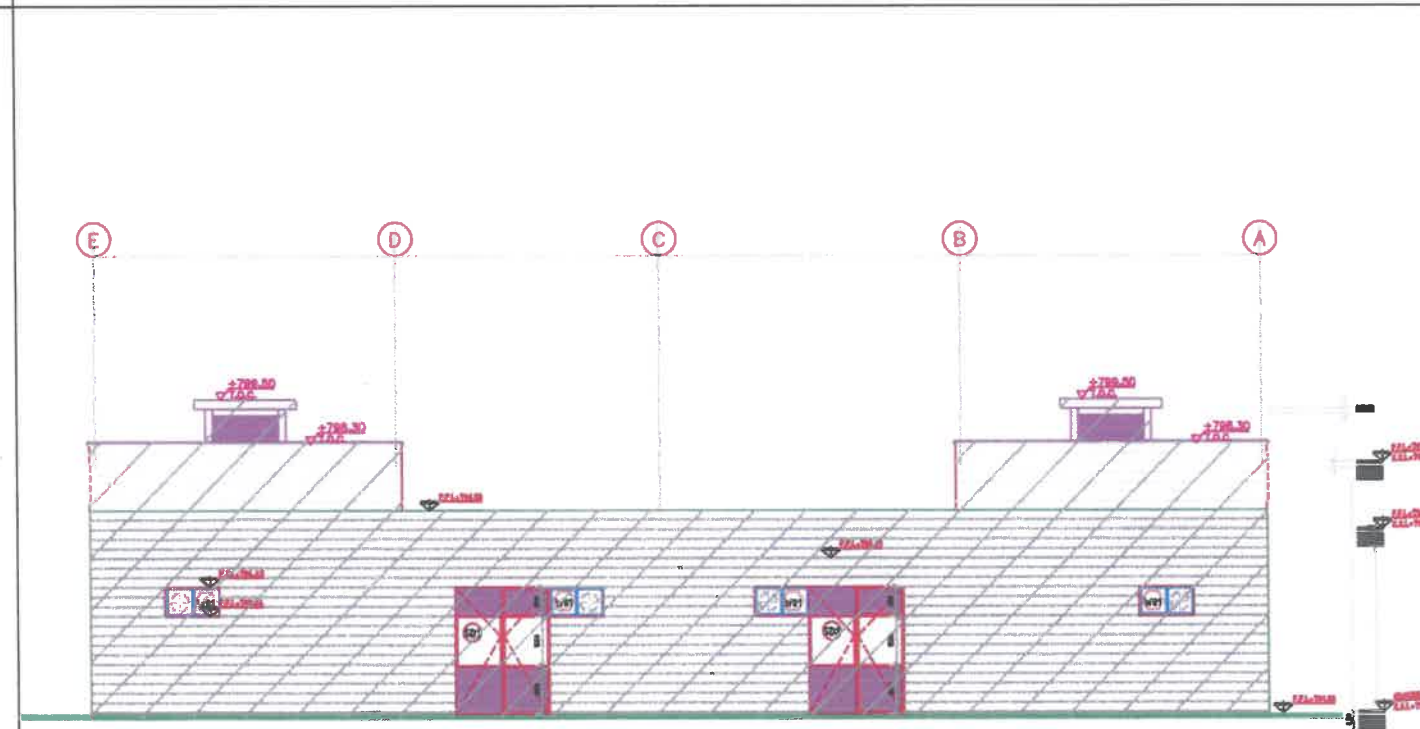
NOTES:-



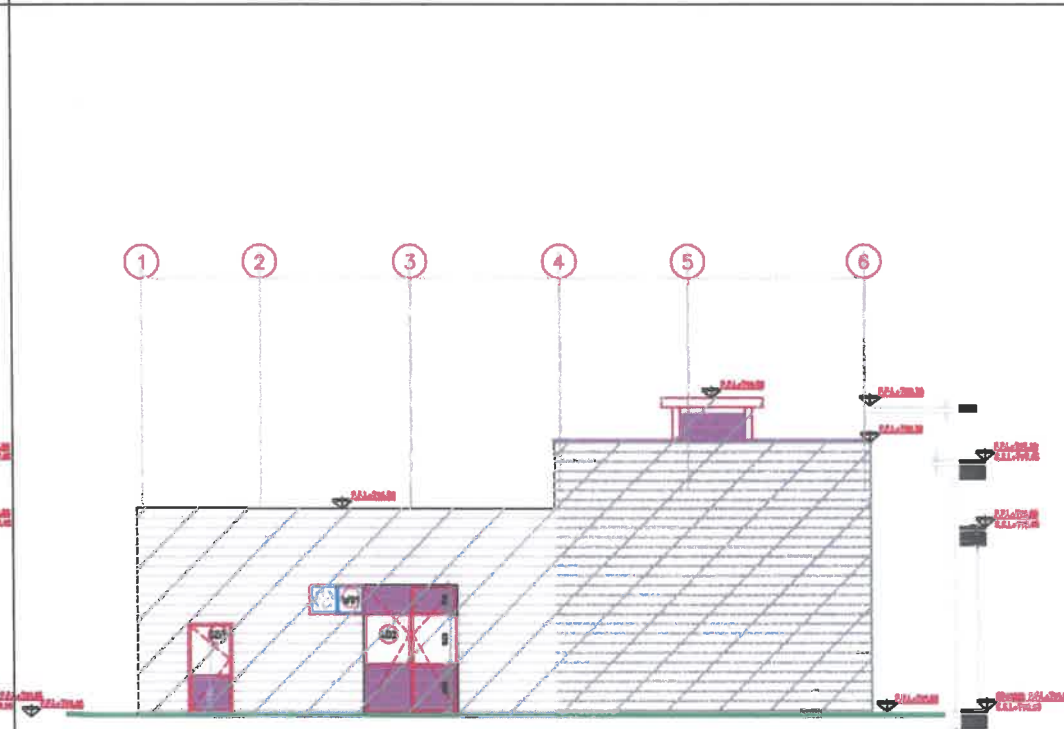
1 ELEVATION-1
1/100



2 ELEVATION-2
1/100



3 ELEVATION-3
1/100



4 ELEVATION-4
1/100

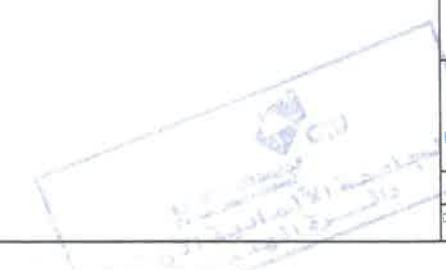


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 ELECTRICAL SUBSTATION

AS Built Drawing
 DRAWN BY : GJU Engineering Department

Elevations	SCALE: 1/100
DRAWING NO. A6	



SCHEDULE OF FINISHING

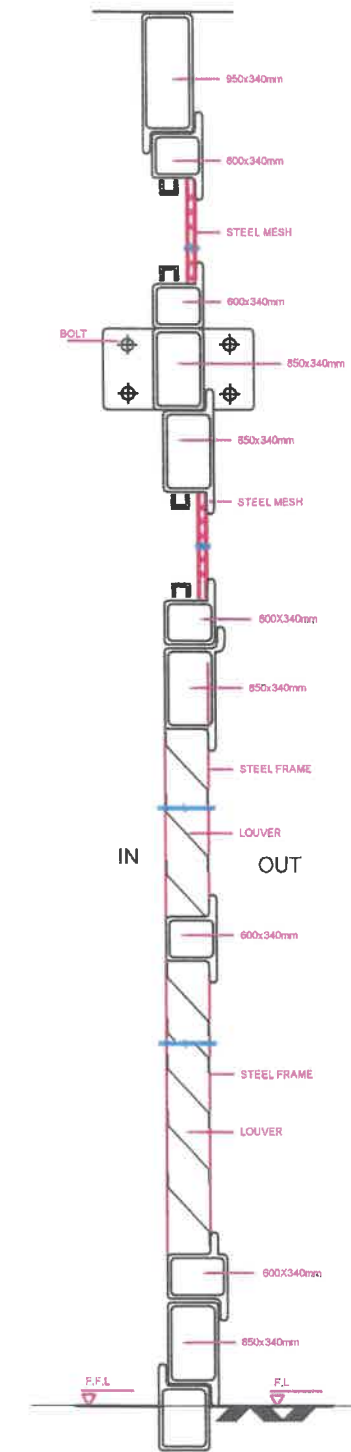
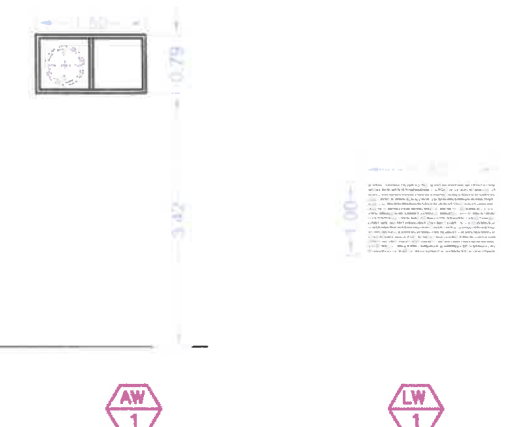
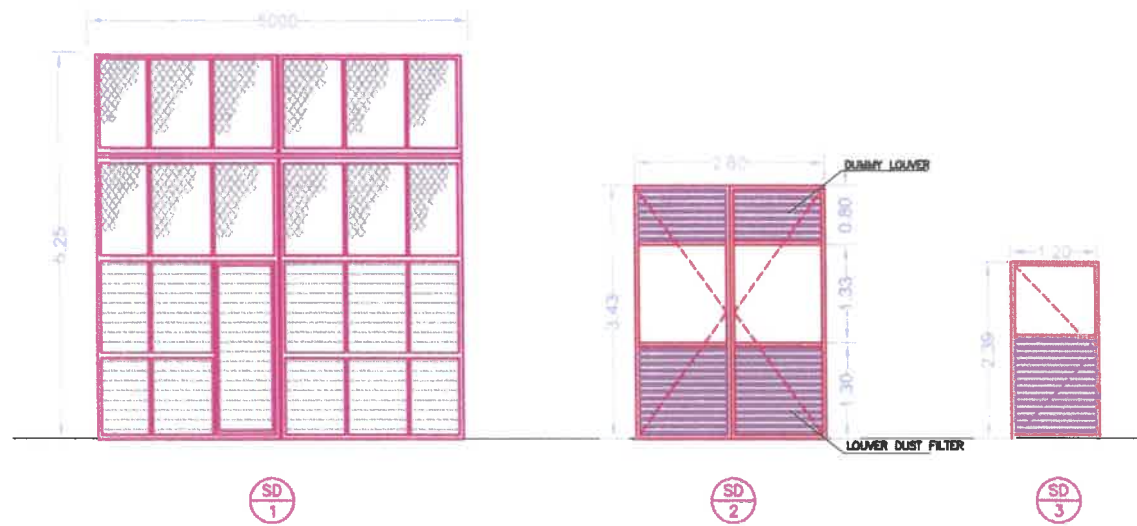
A	TYPE	FLOOR	WALLS	CEILING	REMARKS
●	SLAB ON GRADE (AS PER STRUCTURE) TROWELLED WITH NON-METALIC FLOOR HARDENER				
●	PLASTER+EMULSION PAINT				
●	PLASTER+EMULSION PAINT				

SCHEDULE OF WINDOWS

TYPE	NO.	DIMENSIONS/m (Struc. Open.)		REMARKS
		WIDTH	HIGHT	
AW1	8	1.50	0.790	ALUMINIUM WINDOW - FIXED EXHAUST FAN AT FIXED LEAF, + ONE HINGED LEAF WIRED GLASS
LW1	8	1.80	1000	ALUMINIUM LOUVER WINDOW

SCHEDULE OF DOORS

TYPE	NO.	DIMENSIONS/m (Struc. Open.)		REMARKS
		WIDTH	HIGHT	
SD1	2	5.00	5.25	1.8mm ZINC COATED MILD STEEL DOOR WITH LOUVERS FOR LOWER PART & GALV. STEEL MESH FOR UPPER PART AS SHOWN ON ELEV.
SD2	6	2.60	3.43	1.8mm ZINC COATED MILD STEEL SHEET DOOR WITH SAND TRAP LOUVERS FOR LOWER PART AND ON THE UPPER PART LOUVERS ON SOLID PLATE AS SHOWN ON ELEV.
SD3	2	1.20	2.39	SOLID STEEL DOOR



DETAIL SECTION IN (SD1)
TRANSFORMERS ROOMS

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NOTES:-



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ELECTRICAL SUBSTATION

AS Built Drawing
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Details	SCALE
DRAWING NO. A7	N.T.S.

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Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:-

F1	2x36W FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED FIBER GLASS REINFORCED POLYESTER HOUSING, WITH HIGH FREQUENCY ELECTRONIC BALLAST, PRISMATIC DIFFUSER, IP66
F1 EM	DITTO AS ABOVE, BUT WITH AN EMERGENCY LIGHTING CONVERSATION, BATTERY PACK/KIT, MAINTAINED FOR 1x36 LAMP FOR A DURATION 3 HOURS COMPLETE WITH CONTROLS, BATTERIES, CHARGERS,ETC.
F2	WALL MOUNTED OUT DOOR LUMINAIRE FOR 70W SODIUM LAMP, DIE CAST ALUMINIUM HOUSING, REFLECTOR OF HIGH GRADE ALUMINIUM, GLASS: TEMPERED THERMAL SHOKE AND IMPACT RESISTANT, IN POLYCARBONATE LAMPHOLDER COMPLETE WITH LAMP, MIN. IP54.
F3	400W METAL HALIDE FLOOD LIGHT, DIE CAST PURE ALUMINUM BODY AND WALL MOUNTED WITH PROTECTIVE ANODIZED ALUMINUM REFLECTOR, IP55
E1	WALL MOUNTED COMPLETE EXIT ESCAPE ROUTE LIGHT, MAINTAINED, WITH FLUORESCENT TUBE 1x8W, SELF CONTAINED WITH BATTERIES AND CHARGER FOR 3 HOURS DURATION, RUNNING MAN, ARROW AND DOOR, BODY OF FOLDED METAL, WHITE EPOXY PAINT SMOOTH OPAL POLYCARBONATE DIFFUSER, FLAME RETARDING, IP 44

POWER SYSTEM.

SYMBOL	DESCRIPTION
	13A, ONE GANG SWITCHED 3 PIN SOCKET OUTLET WITH SHUTTERS AND EARTHING POLE, IP20
	60A THREE PHASE INDUSTRIAL TYPE SOCKET OUTLET, 5PIN COMPLETE WITH PLUG, IP-44.
	20A, SINGLE PHASE FUSED SPUR SWITCHED OUTLET (DOUBLE POLE CONNECTION UNIT), WITH PILOT LAMP AND FLEX CABLE
	FINAL DISTRIBUTION BOARD (DB)
	SINGLE PHASE DISCONNECTING ISOLATOR SWITCH, IP 54 (RATING AS INDICATED ON DRAWING)
	POWER MANHOLE (100x100x100cm)
	CONCRETE INSPECTION PIT (30x30)cm WITH MEDIUM DUTY CAST IRON COVER AND EARTH COPPER ROD DIA.=16mm L=1200mm OR EXTRA IF REQUIRED

LIGHTING SWITCHED LEGEND

SYMBOL	DESCRIPTION
	10A, 1 GANG, 1 WAY LIGHTING SWITCH
	10A, 2 GANG, 1 WAY LIGHTING SWITCH
	10A, 1 GANG, 2 WAY LIGHTING SWITCH
	10A, 2 GANG, 2 WAY LIGHTING SWITCH

FIRE ALARM SYSTEMS

SYMBOL	DESCRIPTION
	CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR
	CONVENTIONAL PHOTOELECTRIC HEAT DETECTOR
	CONVENTIONAL COMBINED DETECTOR (SMOKE/HEAT)
	MANUAL BREAK GLASS, INDOOR
	FIRE ALARM AUDIOVISUAL DEVICE - FLASHER/SIREN
	FIRE ALARM CONTROL PANEL
	RELEASING PANEL
	MANUAL RELEASE
	ABORT SWITCH
	NOTIFICATION DEVICE FOR RELEASE (STAGE 2)
	NOTIFICATION DEVICE FOR RELEASE (STAGE 1)
	END OF LINE RESISTANCE

LOW CURRENT SYSTEM

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET (RJ11 CAT3 UTP CABLE)
	COMPUTER OUTLET (RJ45 CAT6 UTP CABLE)
	COMPUTER COLLECTION BOX

KEY PLAN



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PROJECT

GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION

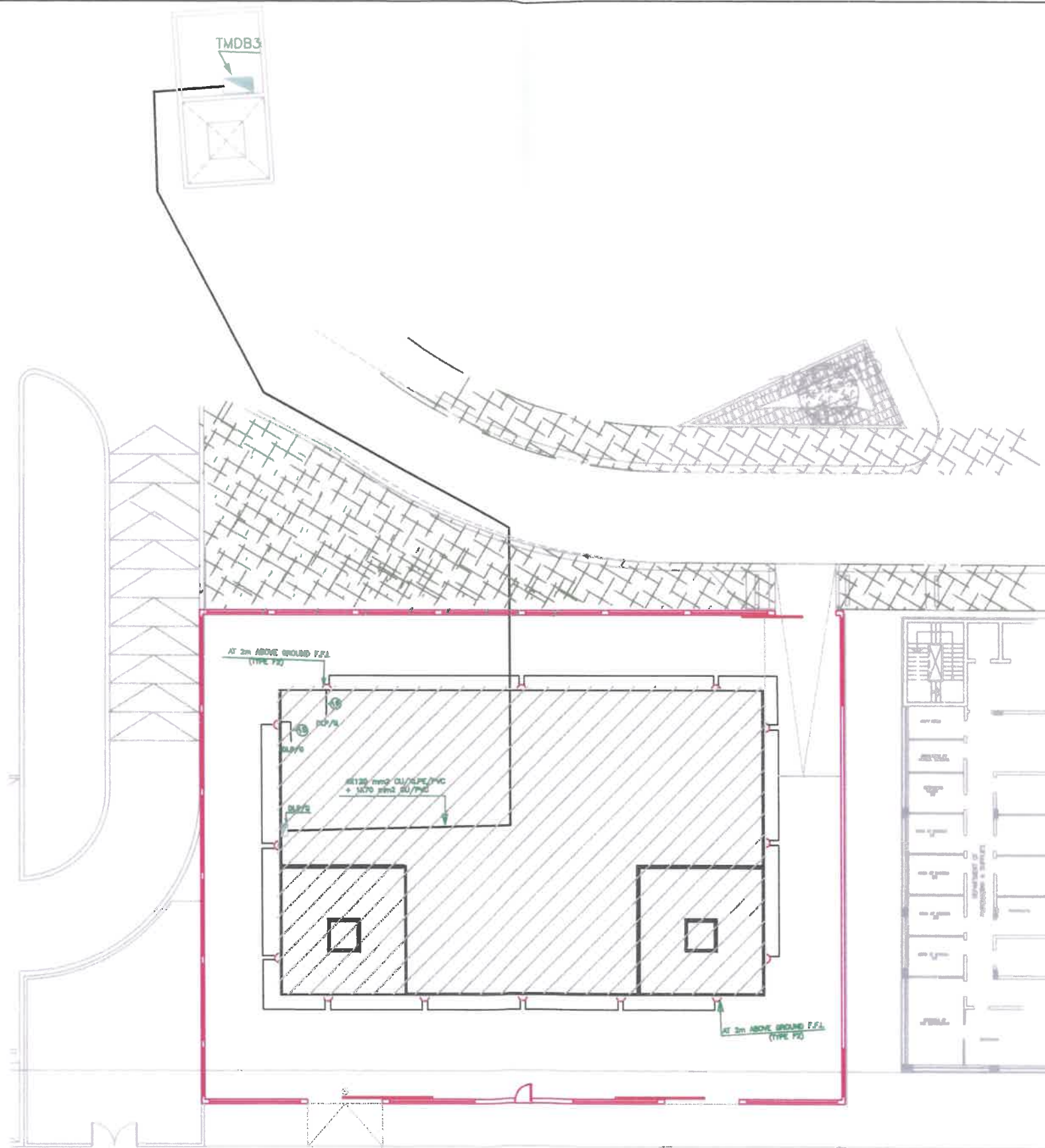
AS Built Drawing

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Legends

DRAWING NO. ED1





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NOTES:

KEY PLAN



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AS Built Drawing

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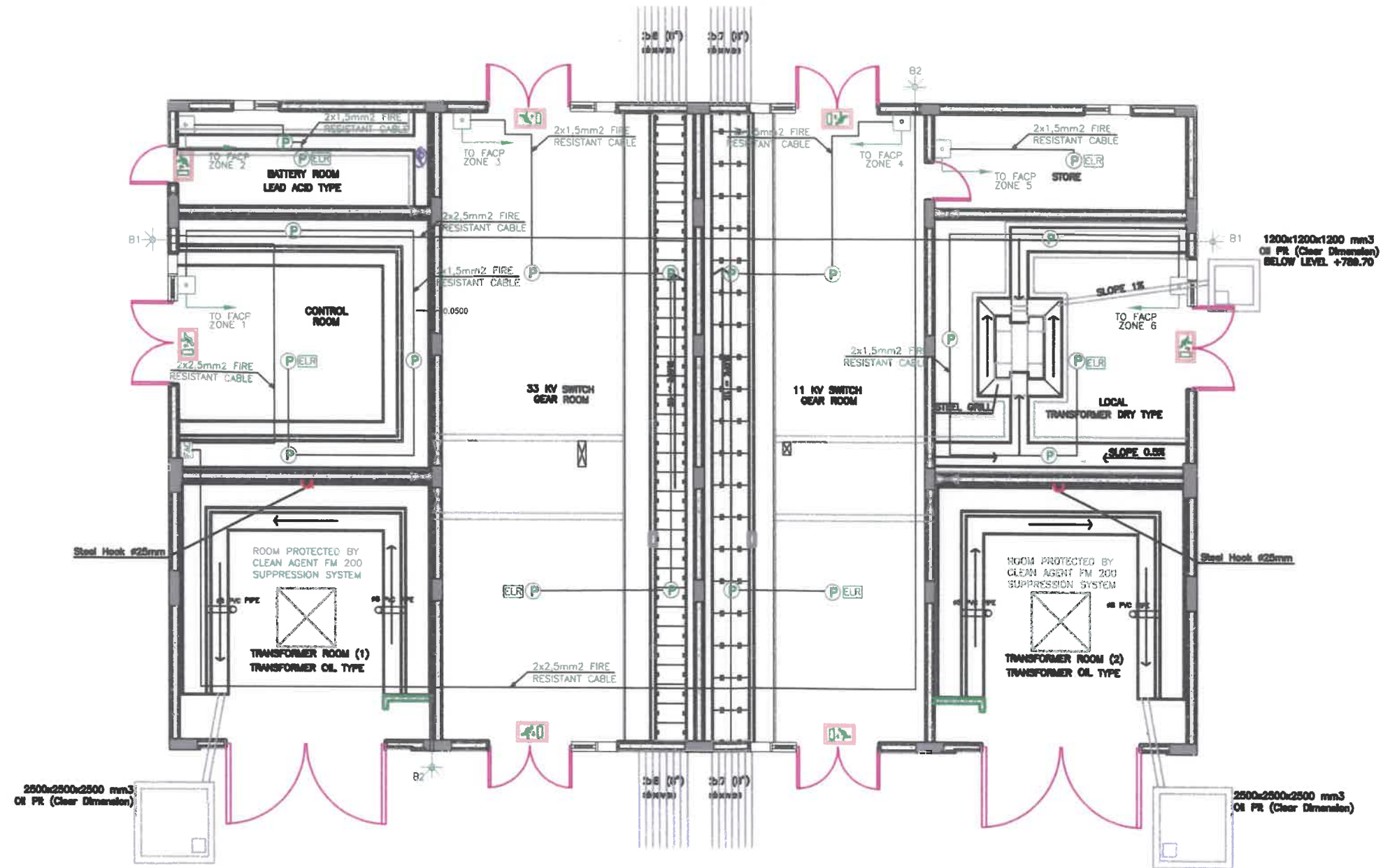
Site Plan	SCALE: 1/200
DRAWING NO. E02	



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Construction Contractor :
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NOTES:-



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 ELECTRICAL SUBSTATION

AS Built Drawing

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Fire Alarm System	SCALE
DRAWING NO. E05	1:100

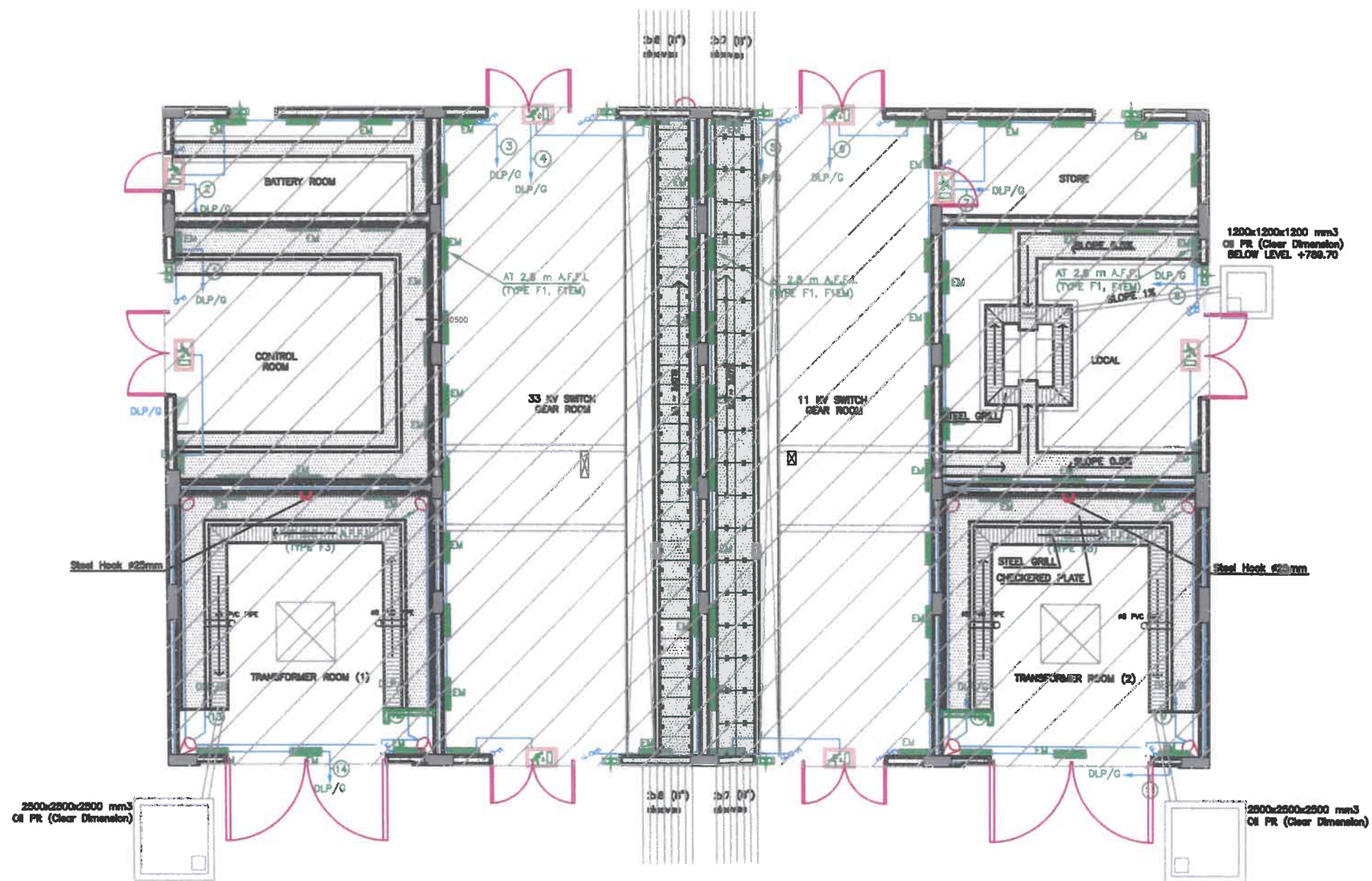
مديرية الأمن العام / مديرية مكافحة الحرائق
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Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:-



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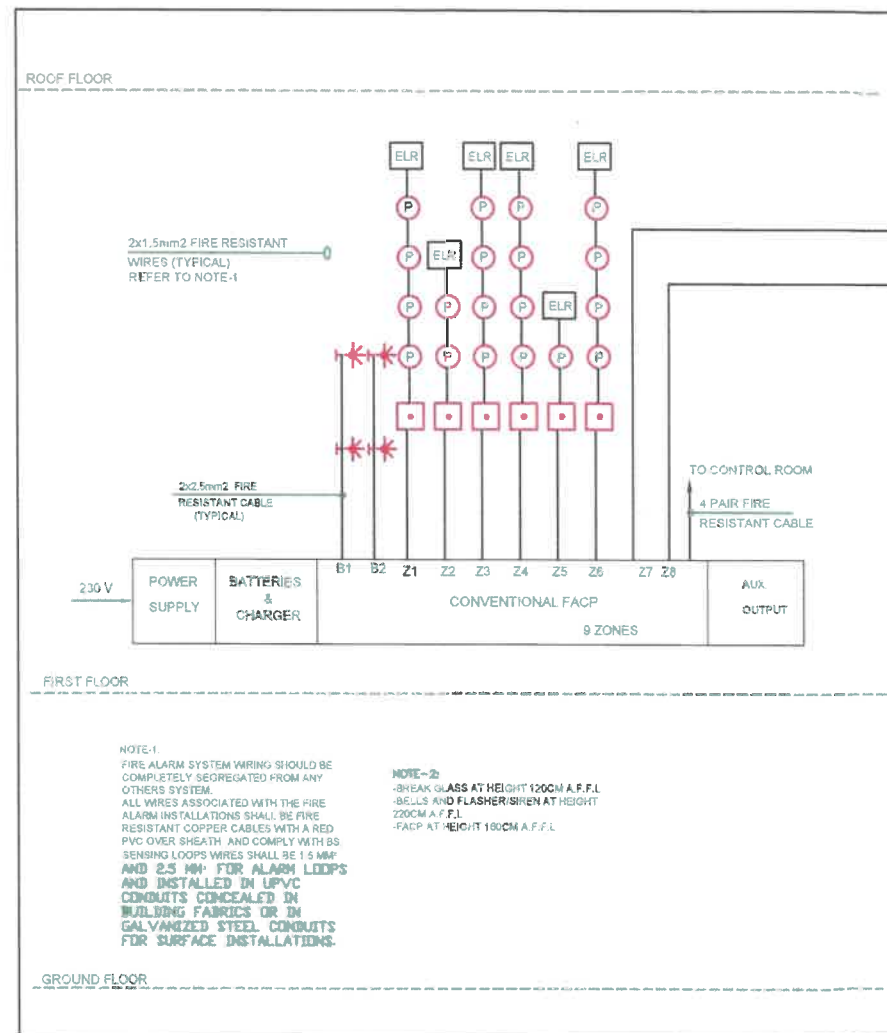
PROJECT
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 ELECTRICAL SUBSTATION

AS Built Drawing
 DRAWN BY : GJU Engineering Department



Lighting System SCALE: 1/100
 DRAWING NO. E03

**FM 200 SYSTEM RELEASING PANELS
 IN TRANSFORMER ROOMS (1) AND (2)**



FIRE ALARM SYSTEMS	
SYMBOL	DESCRIPTION
(P)	CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR
□	MANUAL BREAK GLASS, INDOOR
⋈	FIRE ALARM AUDIOVISUAL DEVICE - FLASHER/SIREN
ELR	END OF LINE RESISTANCE
FACP	FIRE ALARM CONTROL PANEL



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PROJECT
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 ELECTRICAL SUBSTATION

AS Built Drawing
 DRAWN BY : GJU Engineering Department

Riser Diagram & D.P Diagram
 SCALE:
 DRAWING NO. E08

Handwritten signature and date:
 15/11/2014

Official stamp:
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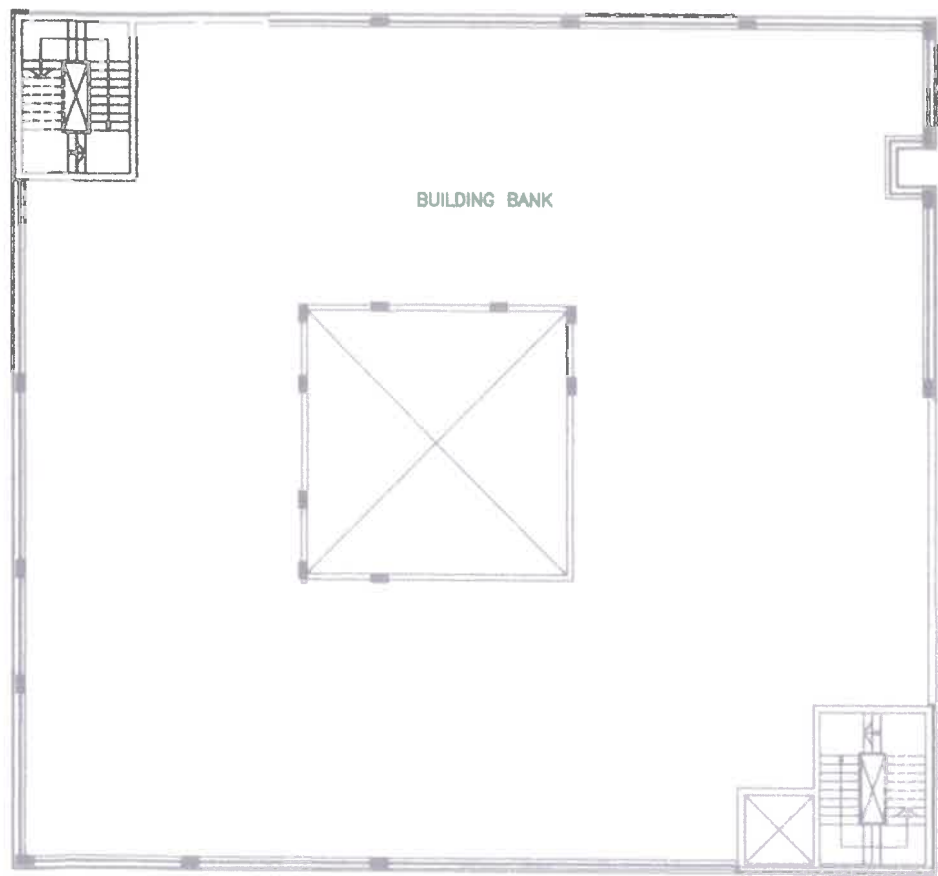
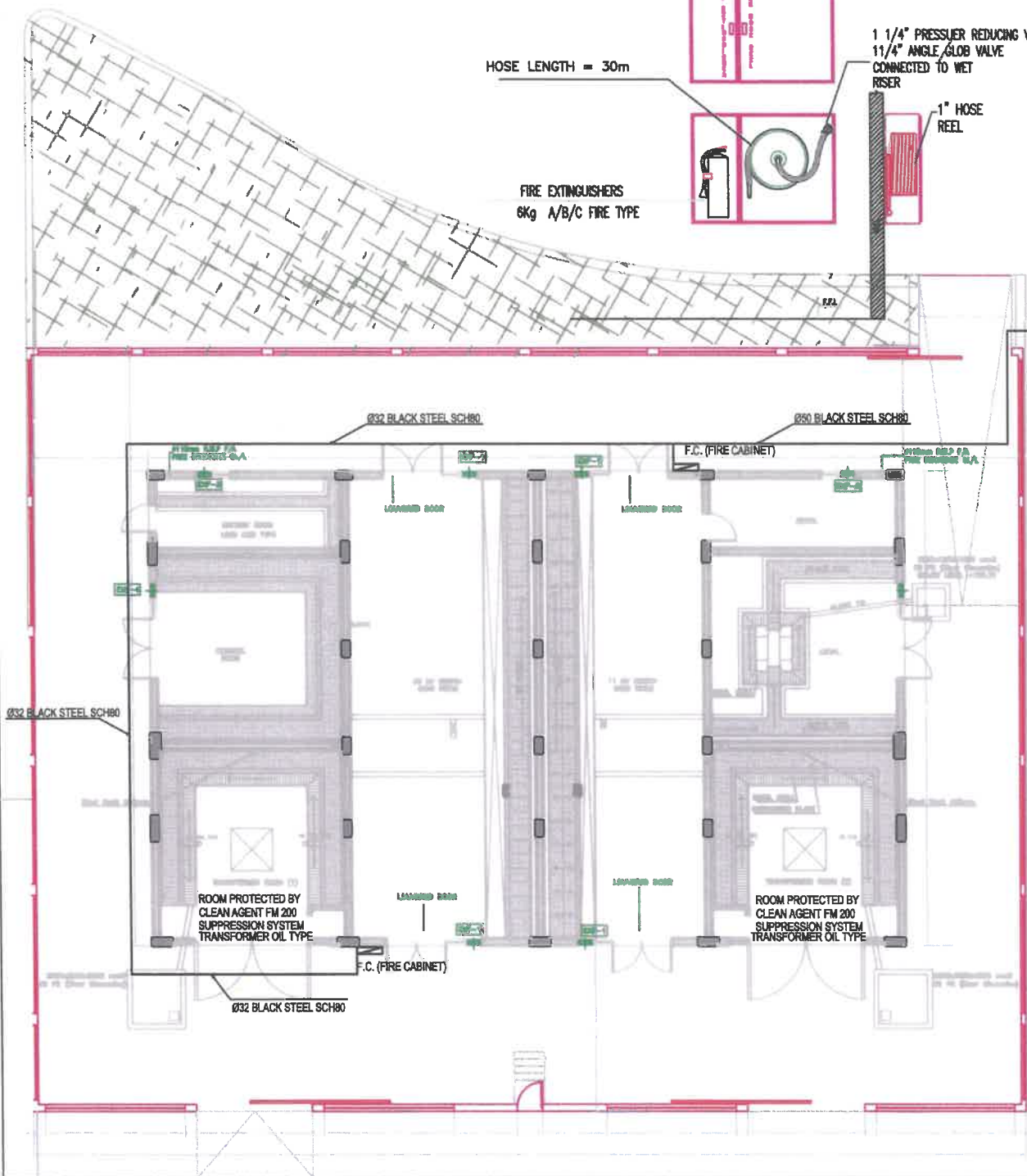
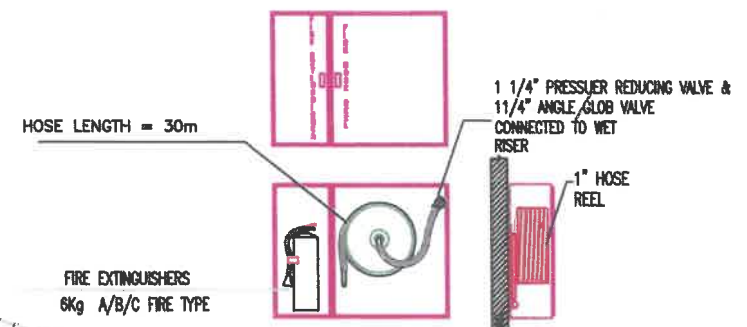
Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:

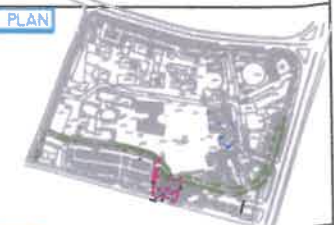


From Pump room existing

FIRE HOSE REEL CABINET



KEY PLAN



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PROJECT

GERMAN - JORDANIAN UNIVERSITY ELECTRICAL SUBSTATION

AS Built Drawing

DRAWN BY : GJU Engineering Department

Fire hose	SCALE:
DRAWING NO. M03	1/100

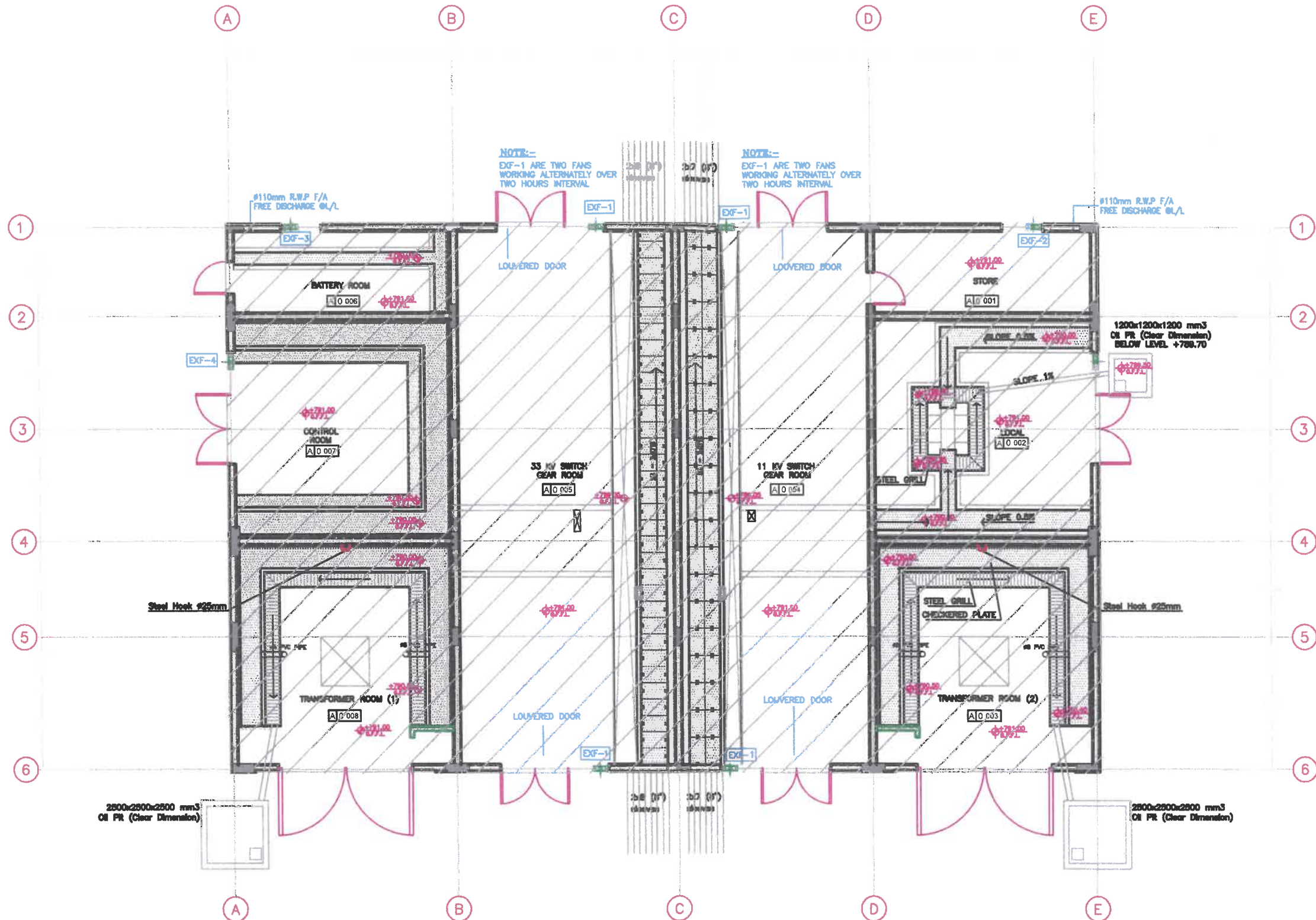
Handwritten notes in Arabic:
 - 1/2" ...
 - 1/2" ...
 - 1/2" ...
 - 1/2" ...



Designed By :
ARABTECH JARDANEH
 engineers & architects
 TEL: 00962-6-5857147 FAX: 00962-6-5824532
 P.O.BOX: 9532 Amman 11191 Jordan

Construction Contractor :
Great Jerusalem Contracting Corp.

NOTES:



EXHAUST AIR FANS SCHEDULE

DESIGN.	SERVED AREA	AIR FLOW (L/S)	FAN SPEED (RPM)	MOTOR DATA				TYPE	TYPE OF DRIVE	ON DUTY	STAND-BY ON TIMER	QTY.
				KW	VOLTS	PHASE	HZ					
EXF-1	11KV & 33 KV SWITCH GEAR ROOM	1877	1290	0.48	230	1	50	SIDEWALL PROPELLER	DIRECT	2	2	4
EXF-2	STORE ROOM	830	1300	0.2	230	1	50	SIDEWALL PROPELLER	DIRECT	1	-	1
EXF-3	BATTERY ROOM	969	1200	0.2	230	1	50	SIDEWALL PROPELLER	DIRECT	1	-	1
EXF-4	CONTROL ROOM	500	1300	0.65	230	1	50	SIDEWALL PROPELLER	DIRECT	1	-	1

KEY PLAN



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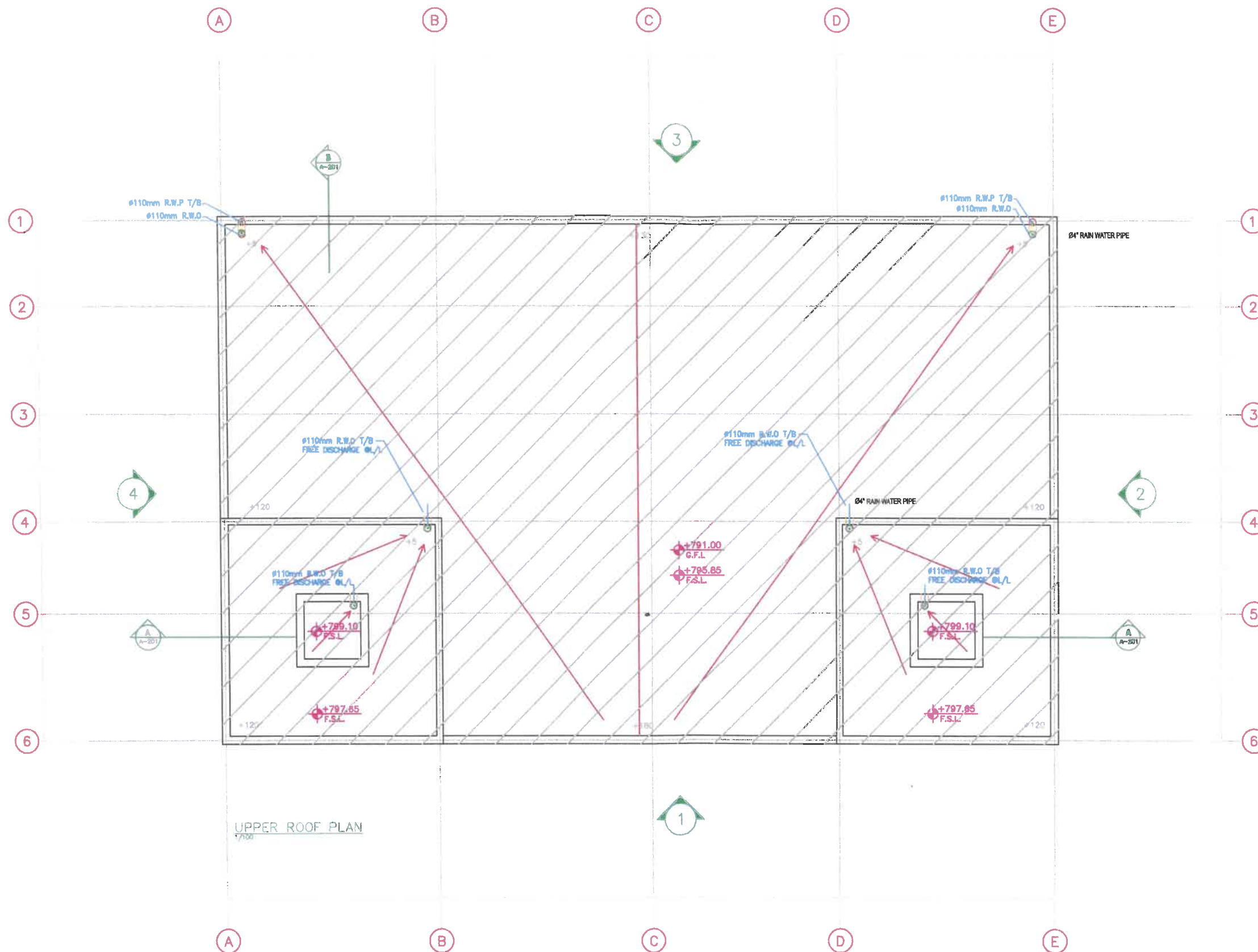
Ground Floor SCALE: 1/100

DRAWING NO. M01

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 Contracting Corp.

NOTES:



UPPER ROOF PLAN
 1/100

KEY PLAN



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PROJECT

GERMAN - JORDANIAN UNIVERSITY
 ELECTRICAL SUBSTATION

AS Built Drawing

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Roof Floor SCALE: 1/100

DRAWING NO. M02