



Belgium
partner in development

**PUBLIC WORKS CONTRACT FOR THE REHABILITATION AND/OR CREATION OF EIGHT STEM
LABS IN MIDDLE AND NORTHERN GOVERNORATES IN WEST BANK**

PSE22001-10201

Drawings

Enabel 

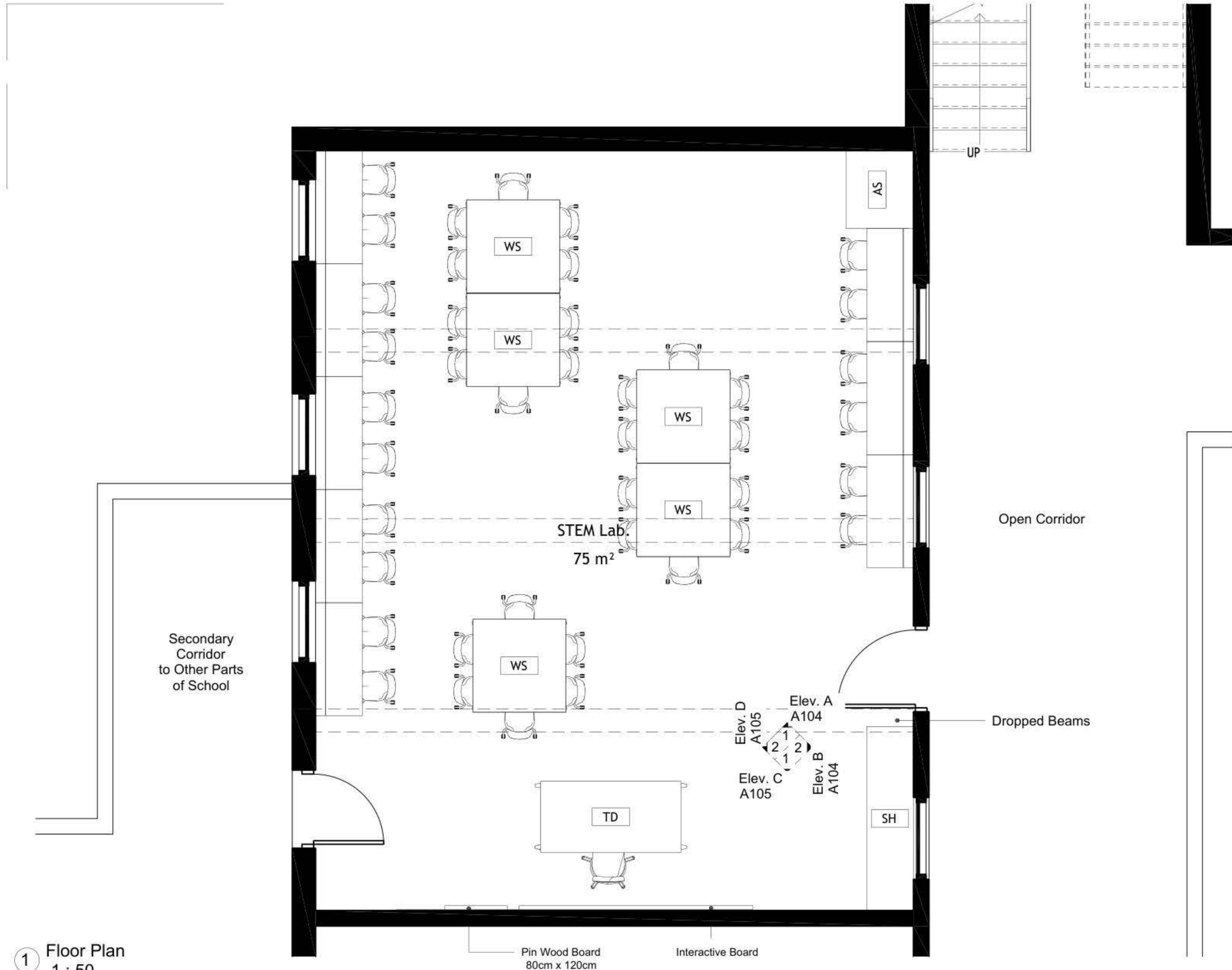
REVISION [01]

Tuesday , September 1, 2026

Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Adawiya Secondary Girls School





1 Floor Plan
1 : 50

DRAWING NOTES:

Co-tracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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AUTHORIZATION

Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

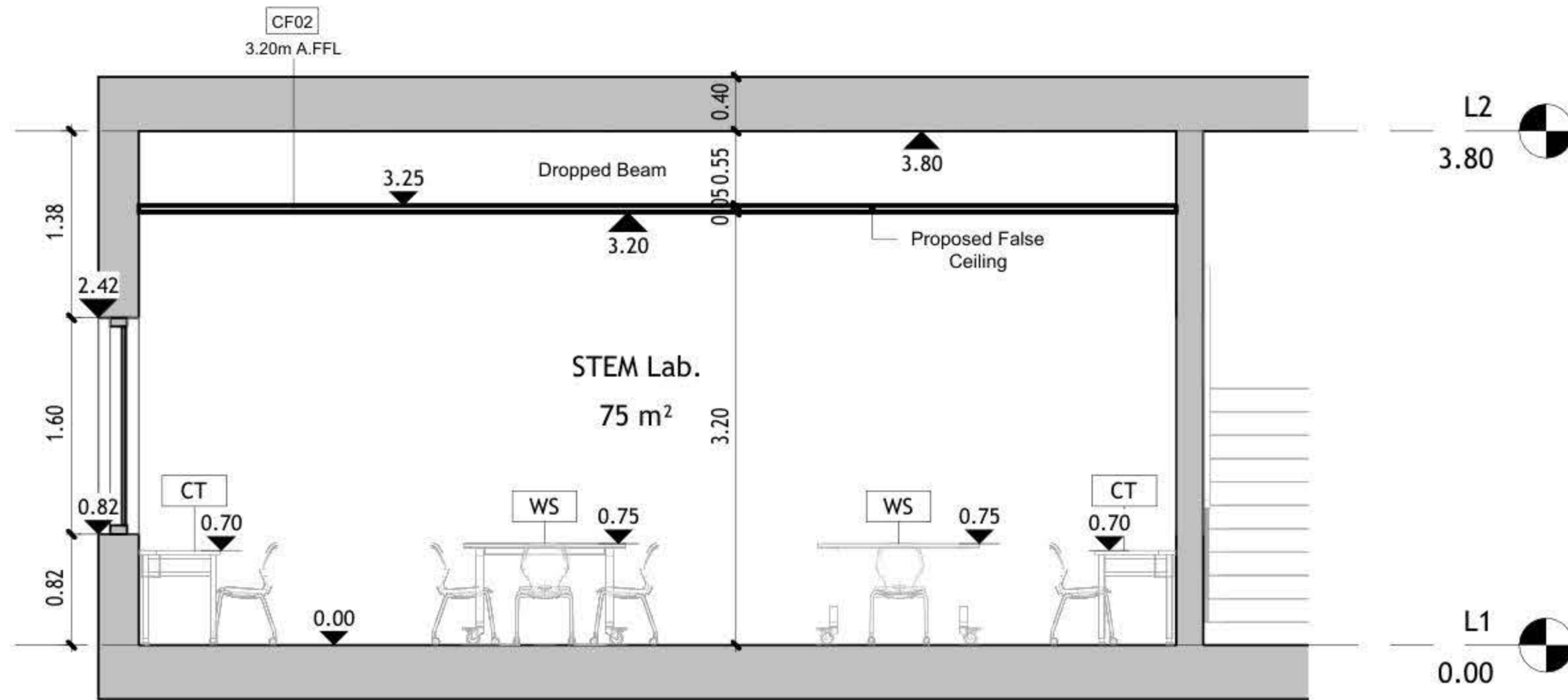
Eight STEM Labs in Middle and
Northern Governorates
PSE22001-10201

Adawiya Secondary Girls School

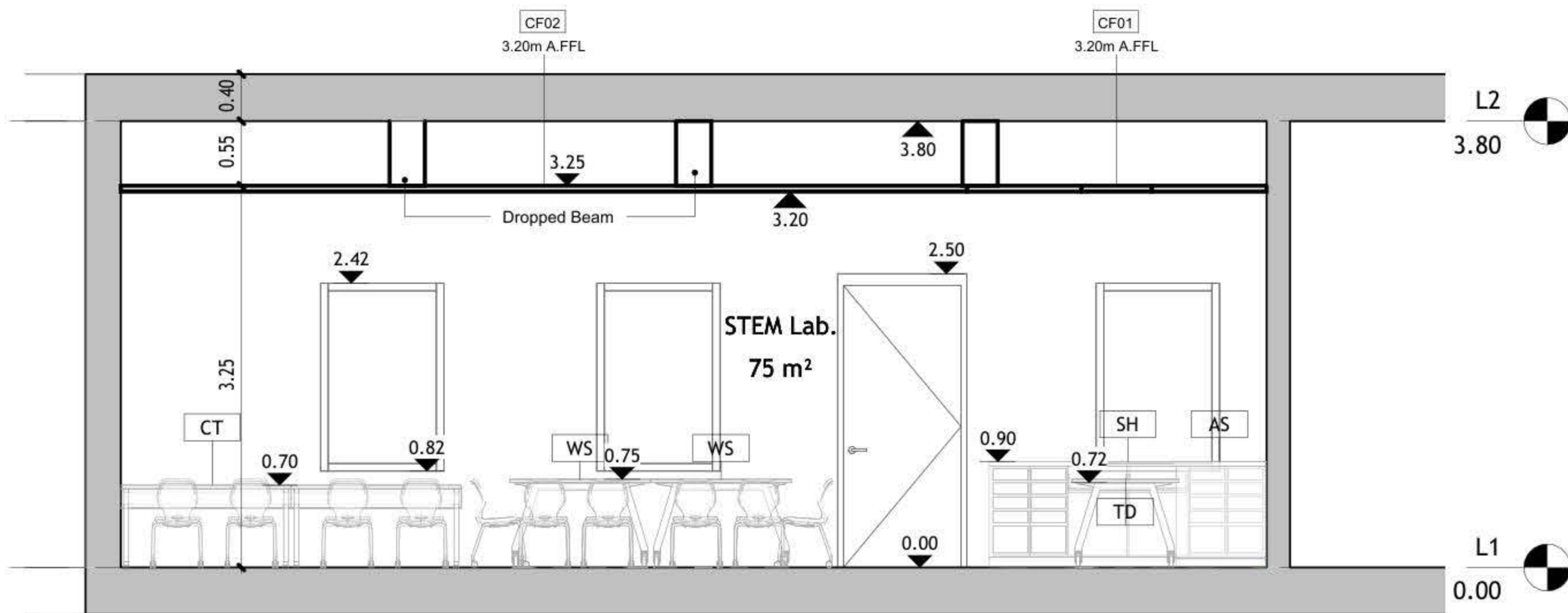
DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV. #
1 : 50		



① Elev. A
1 : 50



② Elev. B
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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AUTHORIZATION

Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

**Eight STEM Labs in Middle and
Northern Governorates**

Adawiya Secondary Girls School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
SCALE: 1 : 50	Sht. of	REV. #
	A104	00

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

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AUTHORIZATION

Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

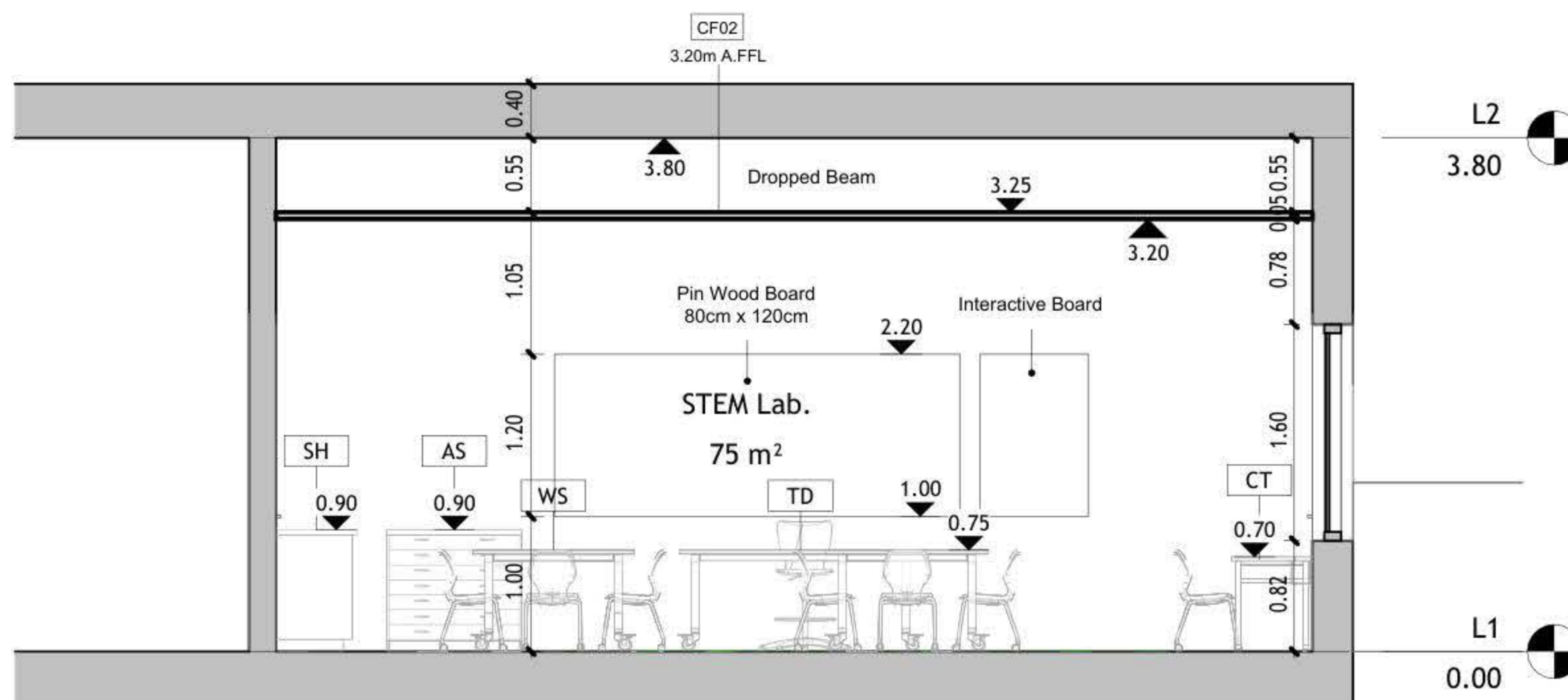
Adawiya Secondary Girls School

DRAWING TITLE:

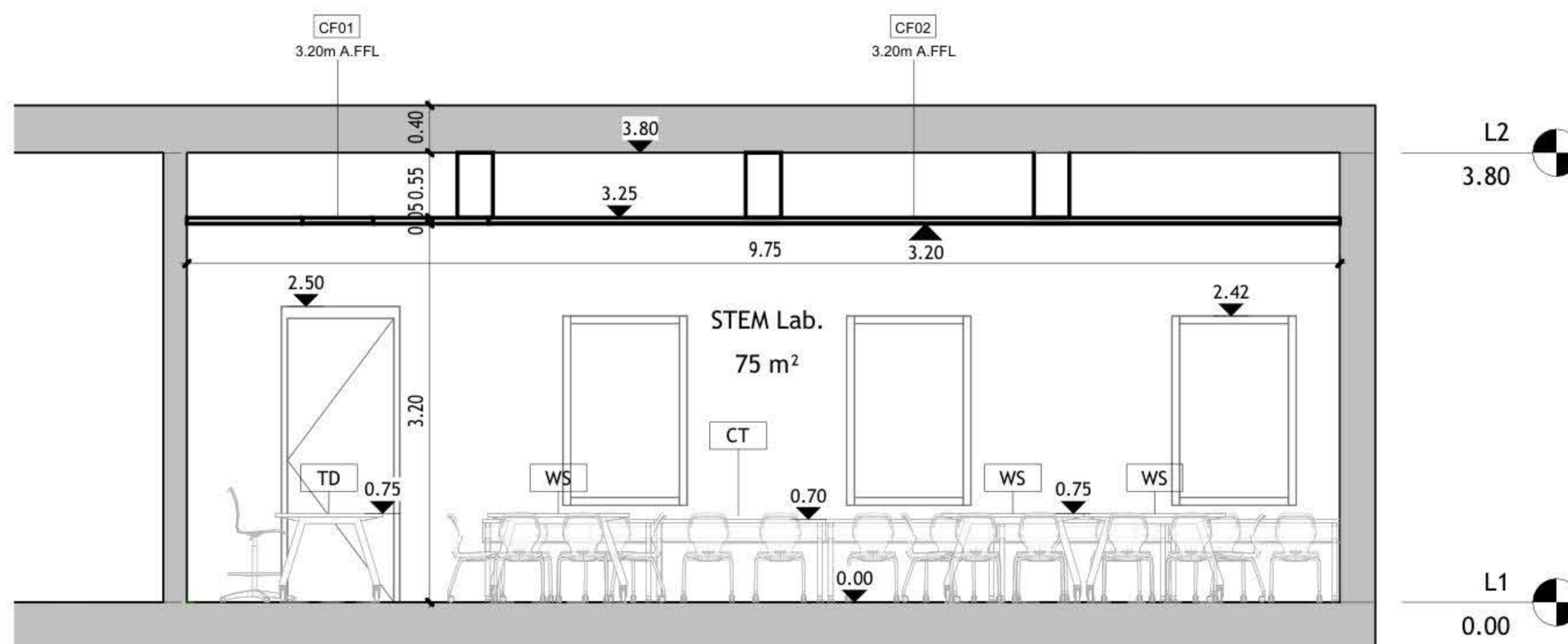
Internal Elevations

JOB #	DWG #	BLOCK #
	A105	00
SCALE:	Sht. of	REV. #
1 : 50		

1 Elev. C
1 : 50

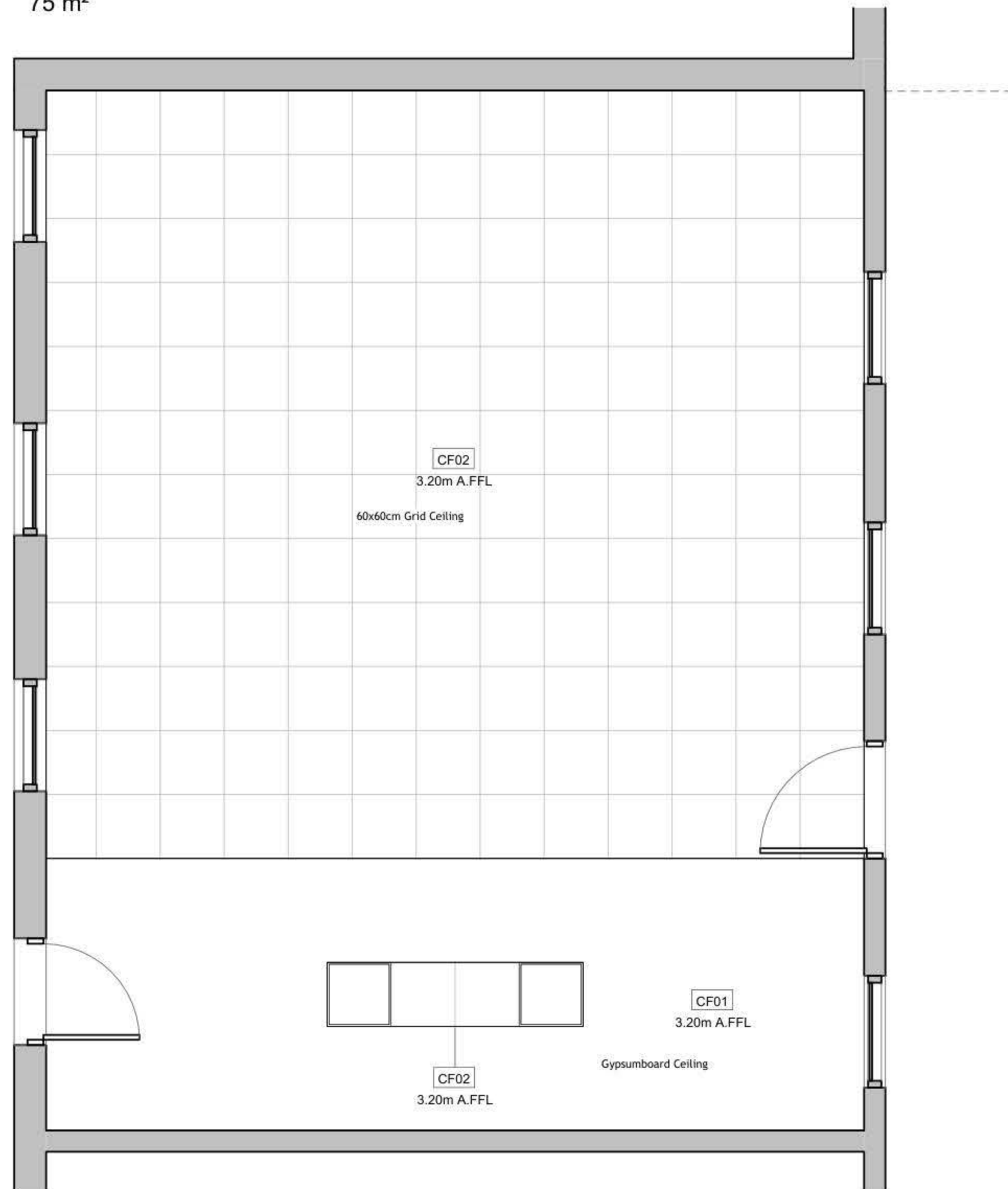


2 Elev. D
1 : 50



CF01	Gypsum Board	18 m ²
CF02	60 * 60 Mineral Fiber Tiles	57 m ²

Grand total: 3	75 m ²
----------------	-------------------



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

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Tel 022982405
email: hqurt@glob-consult.com

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Adawiya Secondary Girls School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV. #	



EMERGENCY LIGHTING LAYOUT

Date:	06/11/2005	E 201
Time:	17:100	
City:	RAMALLAH	
Ref:	34008	



NOTES



Electrical Engineering

Designed by: F.C. (2004) MAL 402-2

Drawn by: E.E. Hest 441-441

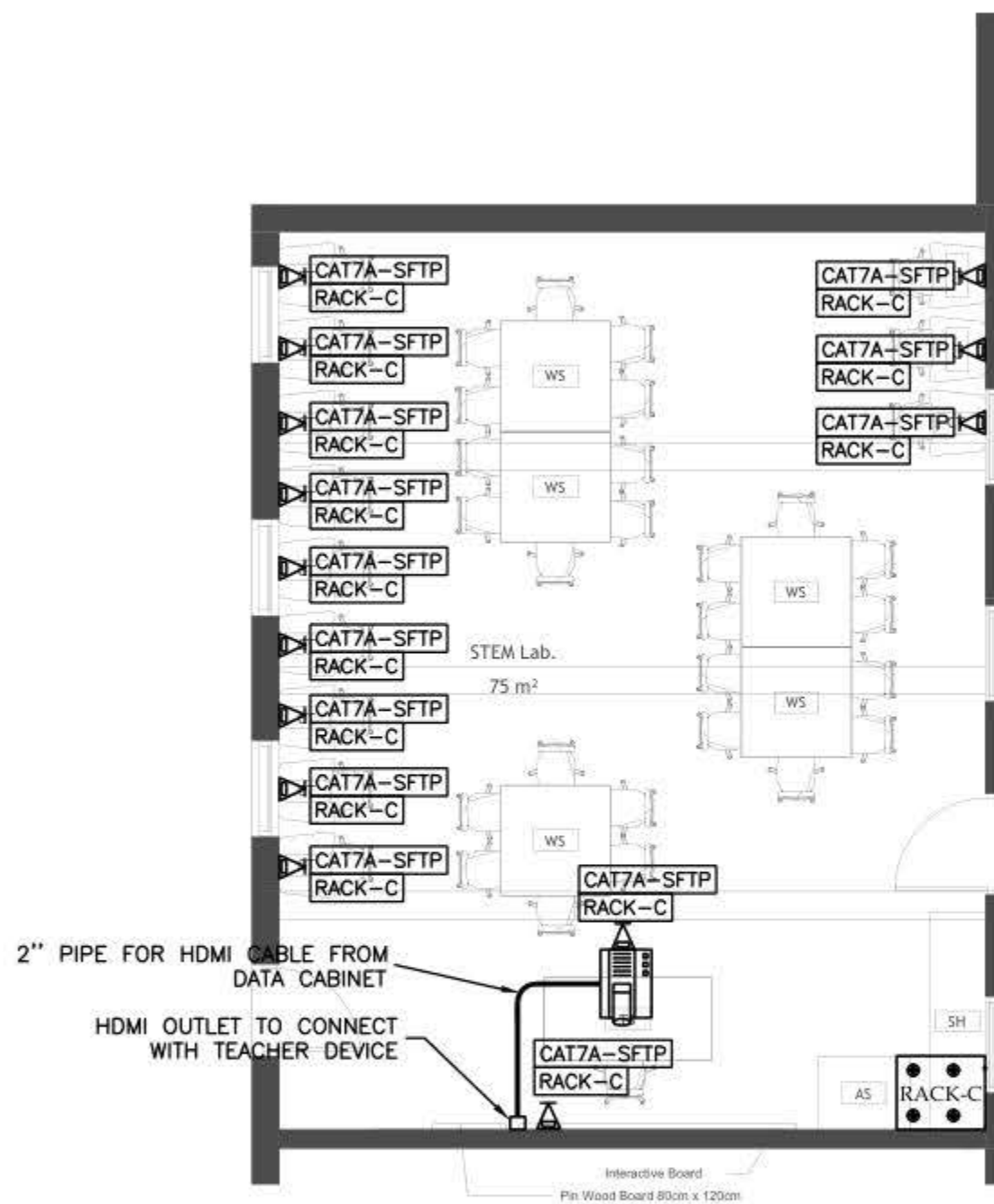
Approved by: J. E. Hernandez, Sr.

ADAWTYA DESIGN

POWER LAYOUT

Date: 06/11/2025

E 301



ADAMIYA LAB



Electrical Engineering

Designed by: P. C. D. 1001-1001-1001

Drawn by: _____
Checked by: E.E. Dept. 445-445

Approved by: J. F. Kennedy, Sr.

ADAWTYA DESIGN

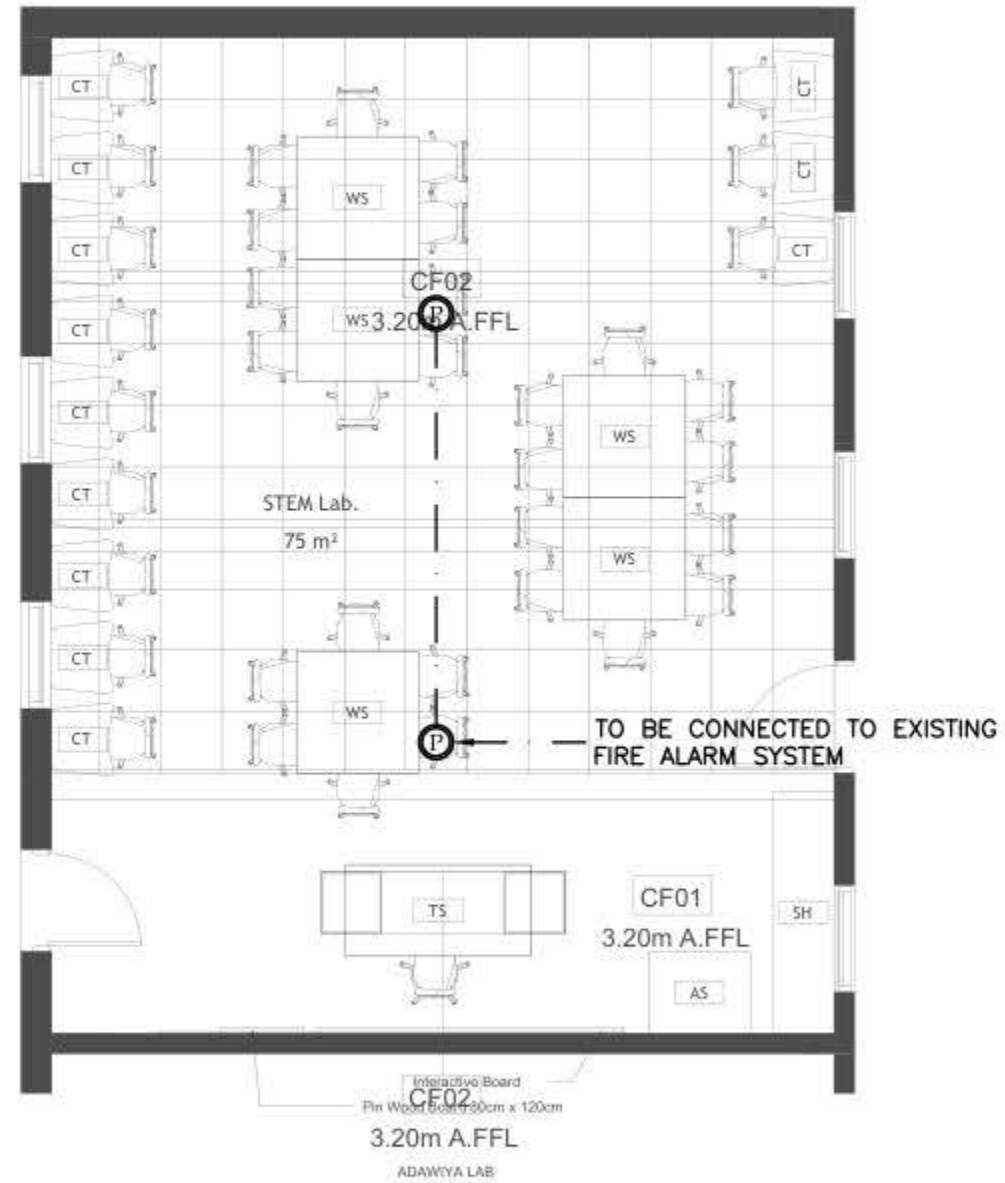
LOW VOLTAGE LAYOUT

Date: _____

Page	Page
1	1
2	2
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11	11
12	12
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E 501

NOTES



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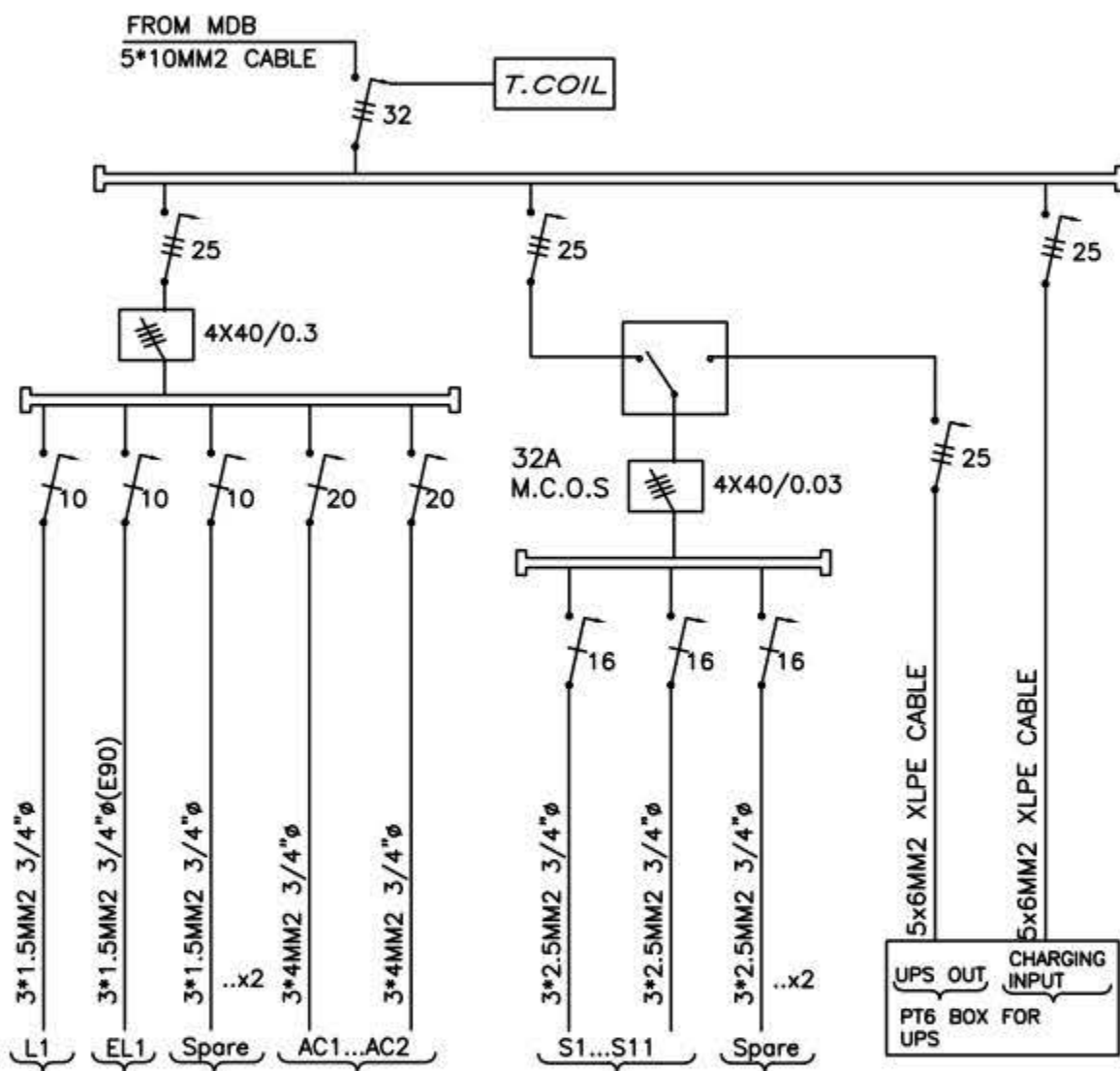
Electrical Engineering
 Designed by: F. L. B. 001-001-001
 Drawn by: F. L. B. 001-001-001
 Checked by: F. L. B. 001-001-001
 Approved by: F. L. B. 001-001-001
ADAWIYA DESIGN

FIRE ALARM LAYOUT

Date:	001-001-001
Scale:	1/100
City:	RAMALLAH
Sheet:	24-001

E 601

BOARD NAME: DBC



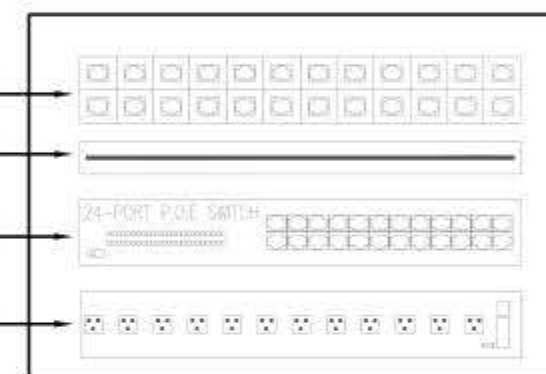
14 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



Electrical Engineering

Designed by: F.E. BASHARA

Drawn by: Sami

Checked by: F.E. BASHARA

Approved by: F.E. BASHARA

ADAWIYA DESIGN

POWER DIAGRAMS

Date: 01/11/2025

Scale: 1/100

City: RAMALLAH

Sheet: 2/2008

E 701

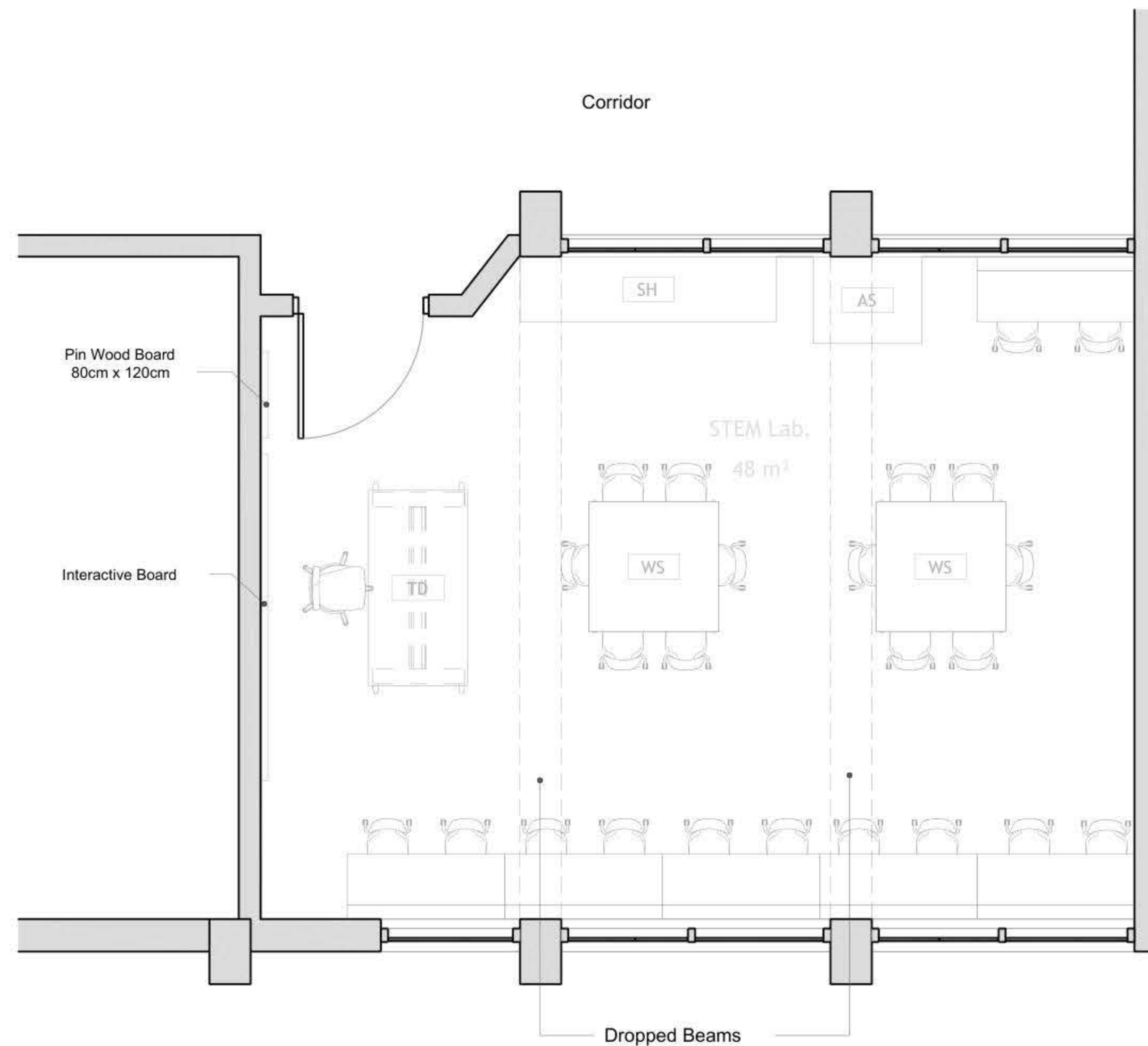
Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Faroun Secondary Girls School



Furniture Schedule		
ID	Description	Count

	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	6
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

STEM Labs Design- As-Built

Faroun Secondary Girls School

DRAWING TITLE:

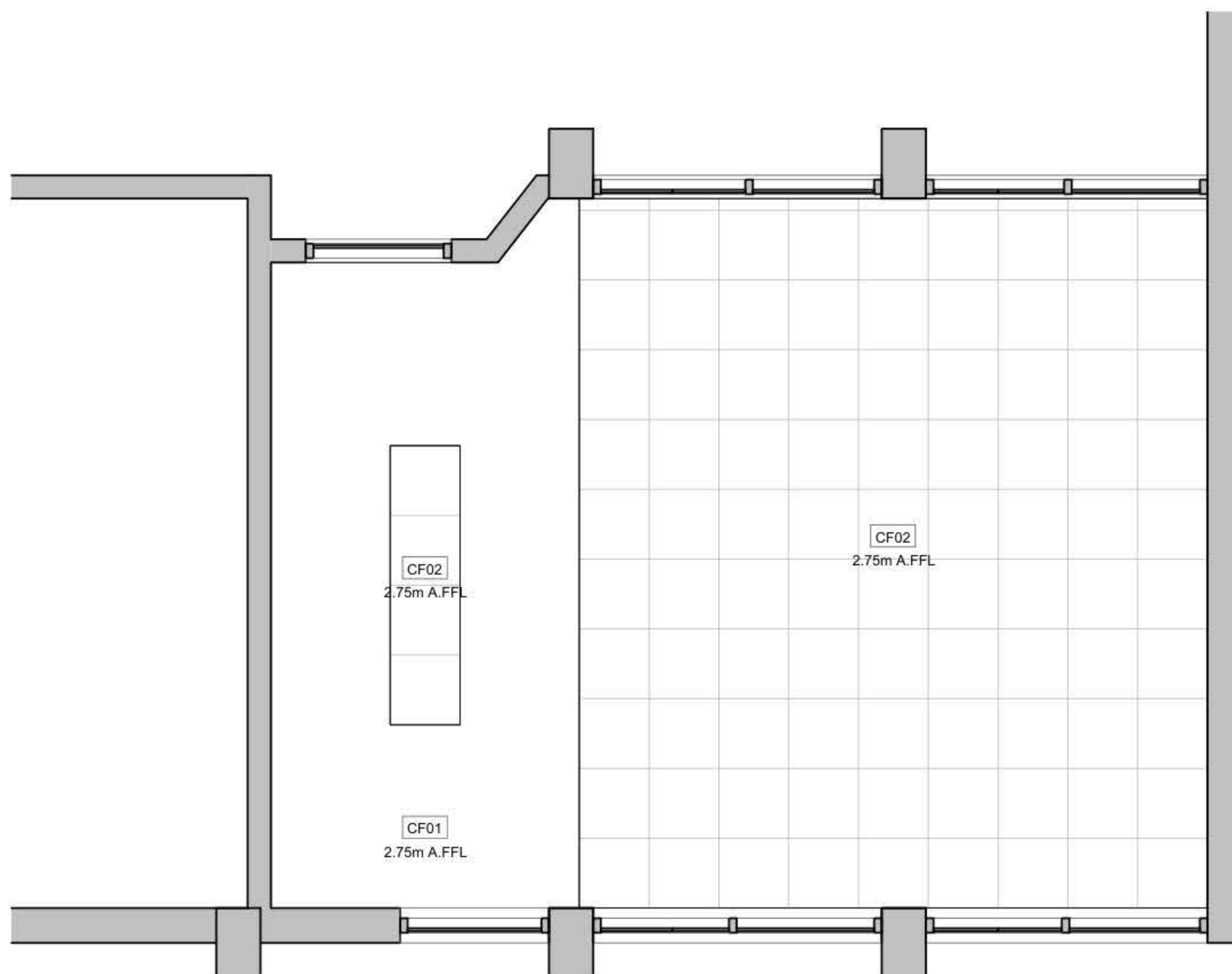
Furniture Plan

JOB #	DWG #	A102	BLOCK #	00
SCALE: 1 : 50	Sht.	of	REV #	

Ceiling Schedule		
Type Mark	Description	Area

CF01	Gypsum Board	14 m ²
CF02	60 * 60 Mineral Fiber Tiles	34 m ²

Grand total: 3 48 m²



1 Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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Ramallah, Palestine
Tel 022982405
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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Faroun Secondary Girls School

DRAWING TITLE:

Reflected Cieling Plan

JOB #	DWG #	BLOCK #
	A103	00
SCALE:	Sht. of	REV. #
1 : 50		



DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

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Ramallah, Palestine
Tel 022982405
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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 03/31/22

PROJECT:

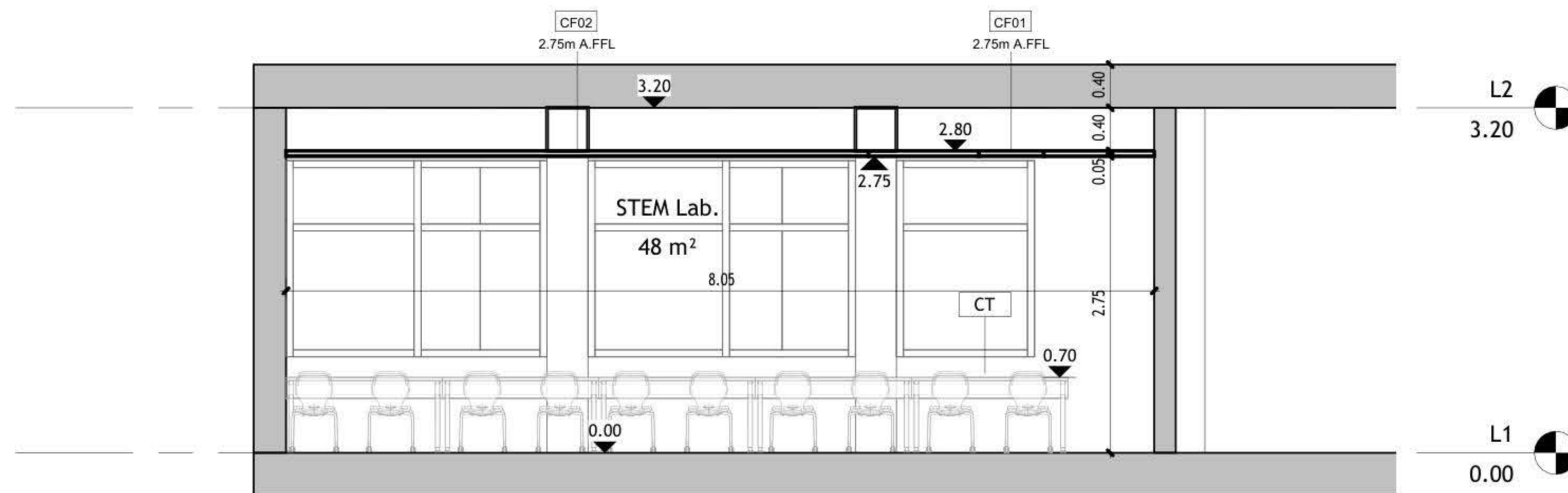
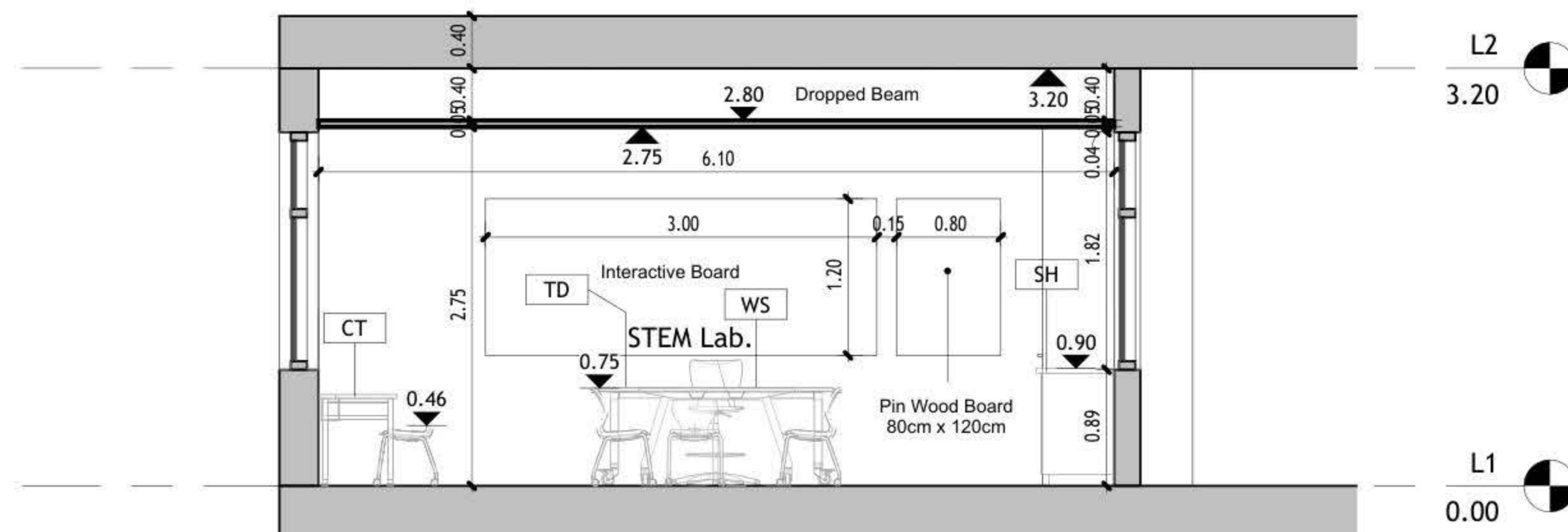
Eight STEM Labs in Middle and Northern Governorates

Faroun Secondary Girls School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	A104	BLOCK #	0
SCALE: 1 : 50	Sht.	of	REV, #	



JOB #	DWG #	A105	BLOCK #	00
SCALE: 1 : 50	Sheet	of	REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOMA CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
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6		



Orbit
 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

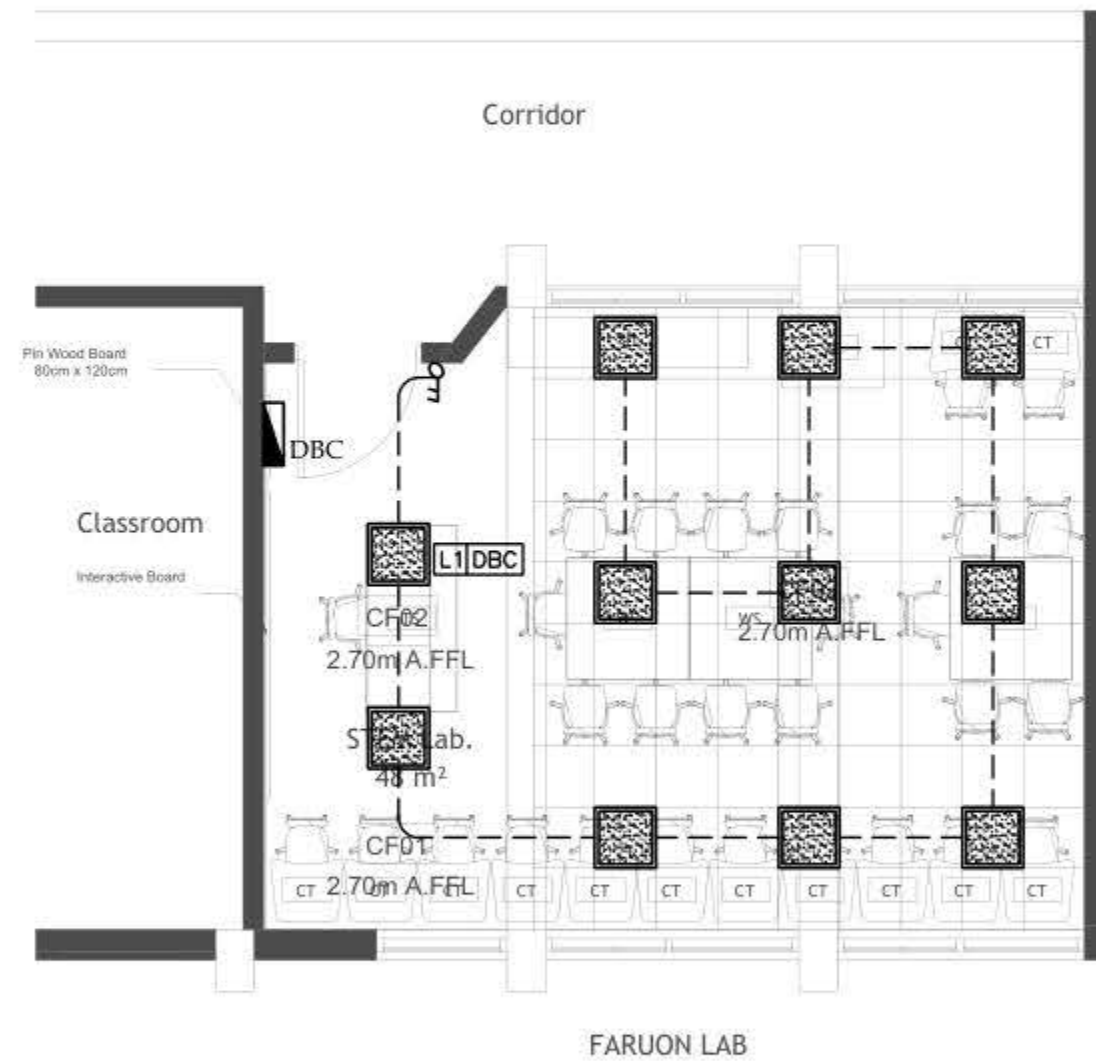
Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

FARUON DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



NO	DATE	DESCRIPTION
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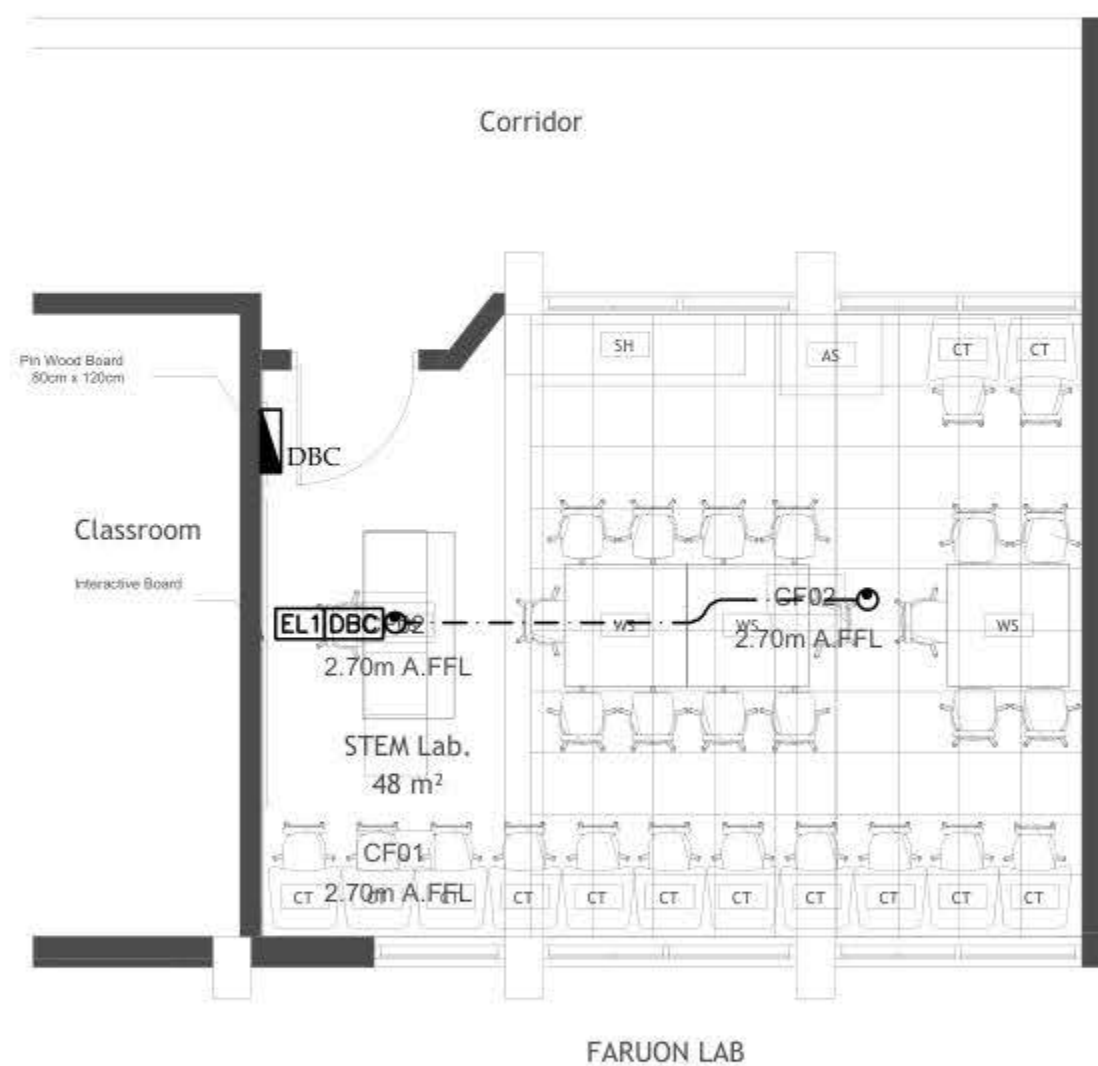
orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. L. D. 001 001 001
 Drawn by: 001
 Checked by: F. L. D. 001 001 001
 Approved by: F. L. D. 001 001 001
FARUON DESIGN

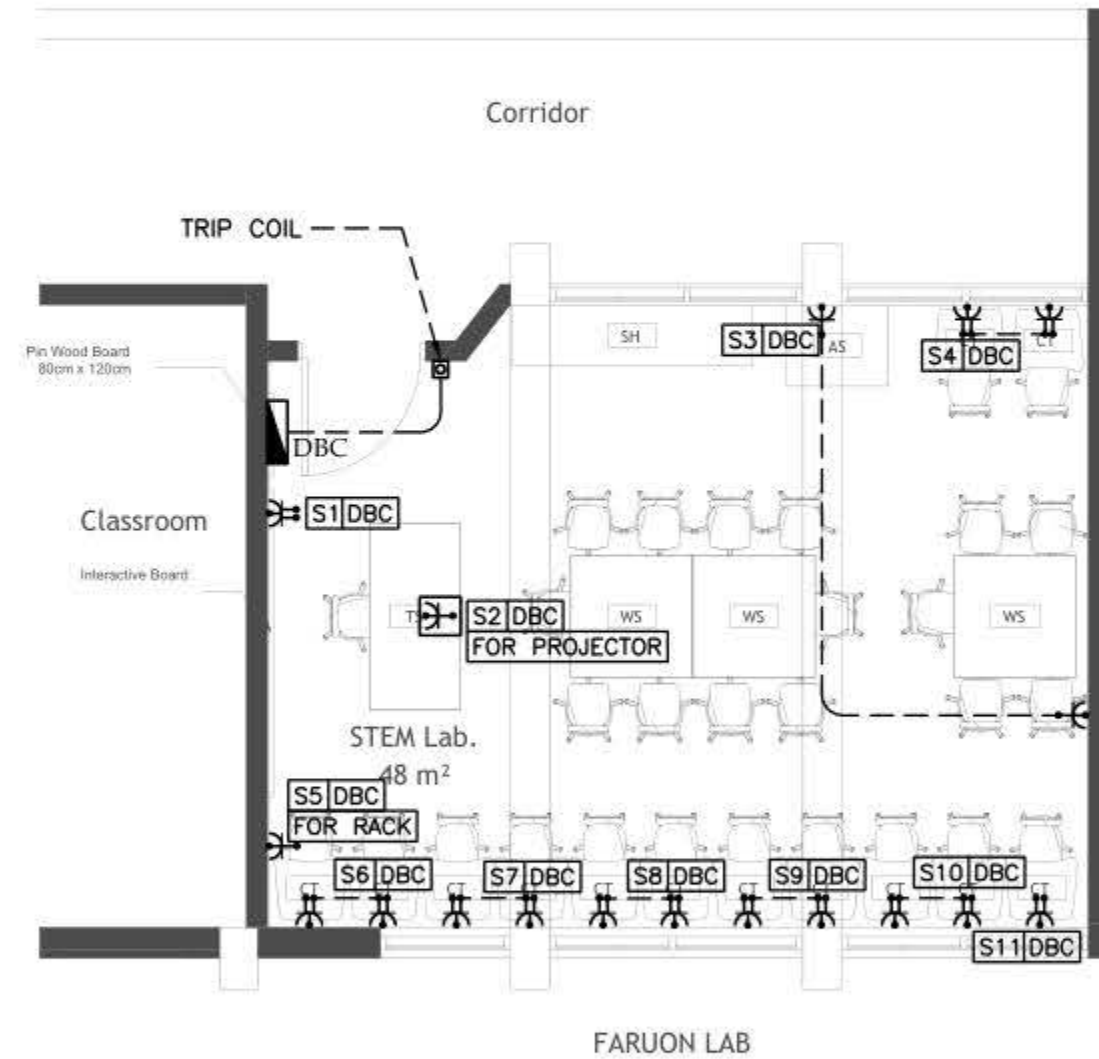
LIGHTING LAYOUT

Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 101



NOTES



NO	DATE	DESCRIPTION
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5		
6		

orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. F. D. 001 001 001
 Drawn by: F. F. D. 001 001 001
 Checked by: F. F. D. 001 001 001
 Approved by: F. F. D. 001 001 001
FARUON DESIGN

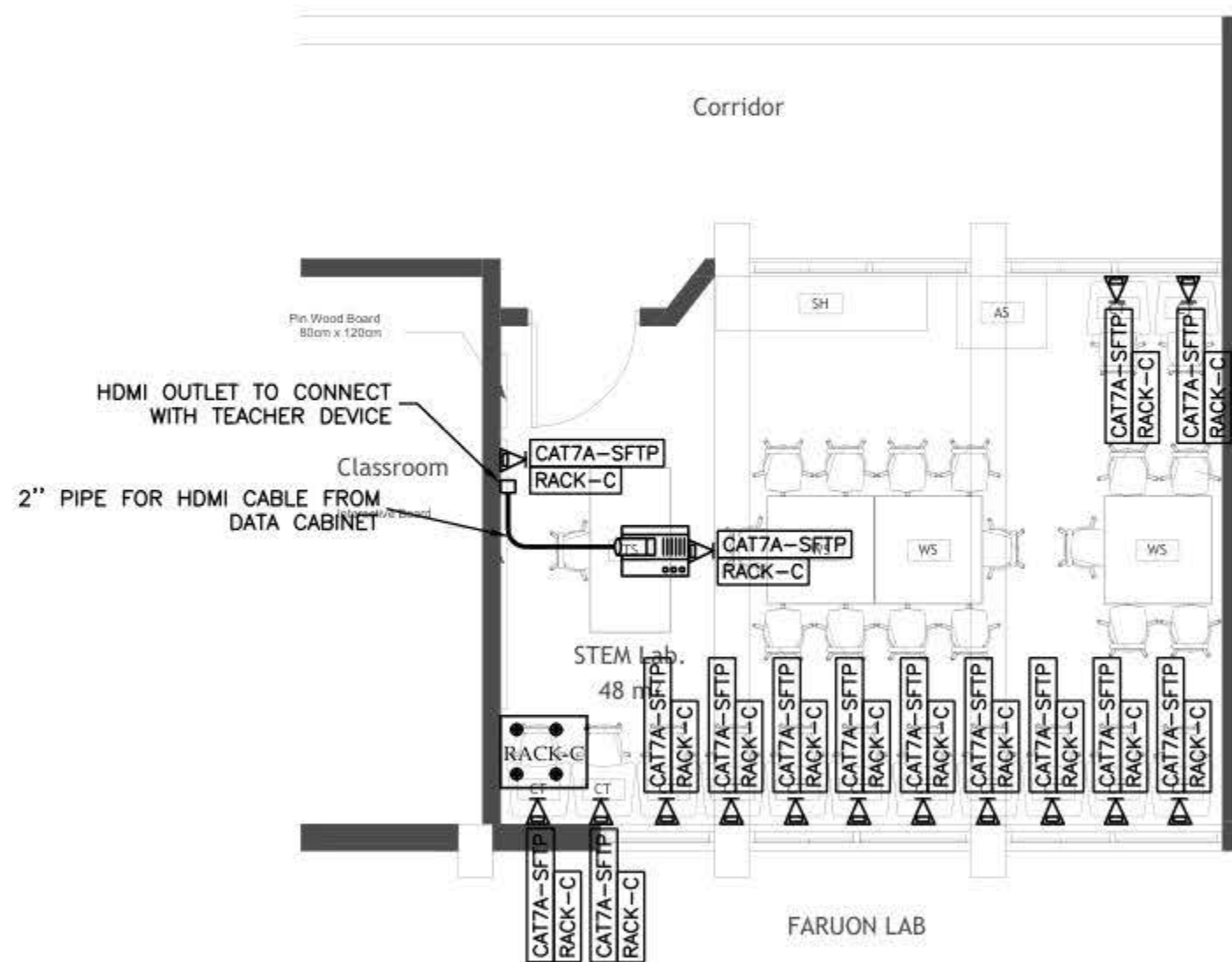
POWER LAYOUT	
Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 301



POWER FOR MECH

E 401



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

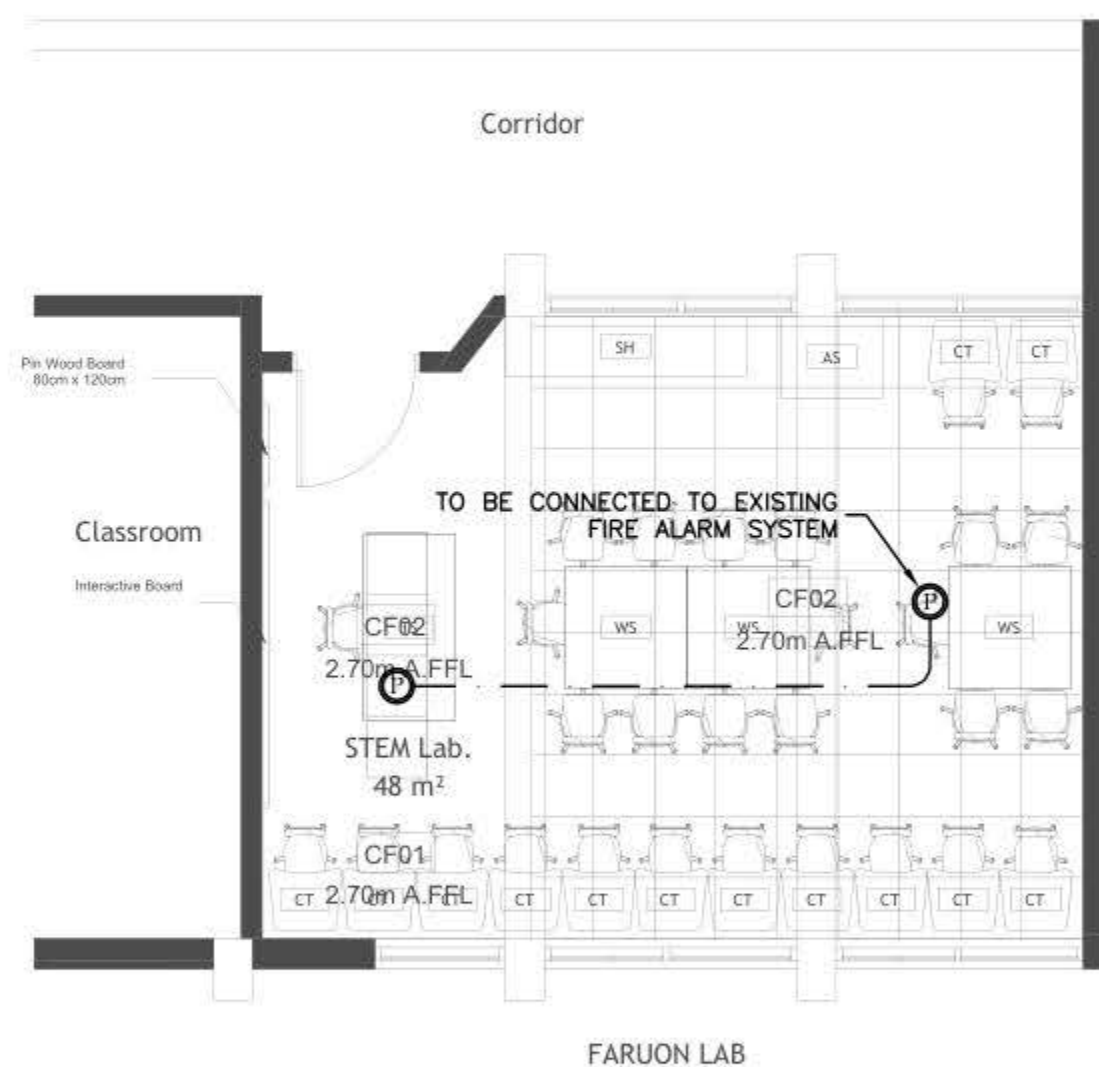
Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Syst

FARUON DESIGN

LOW VOLTAGE LAYOUT

E 501



FARUON LAB



Electrical Engineering

Designed by: P.C. D-204-MAL-002

Drawn by	Sign
Checked by	E.E. Dept. 445-100

Approved by: J.F. Burrows, Sqn

FARUON DESIGN

1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy in the form of ATP and NADPH.

FIRE ALARM LAYOUT

11

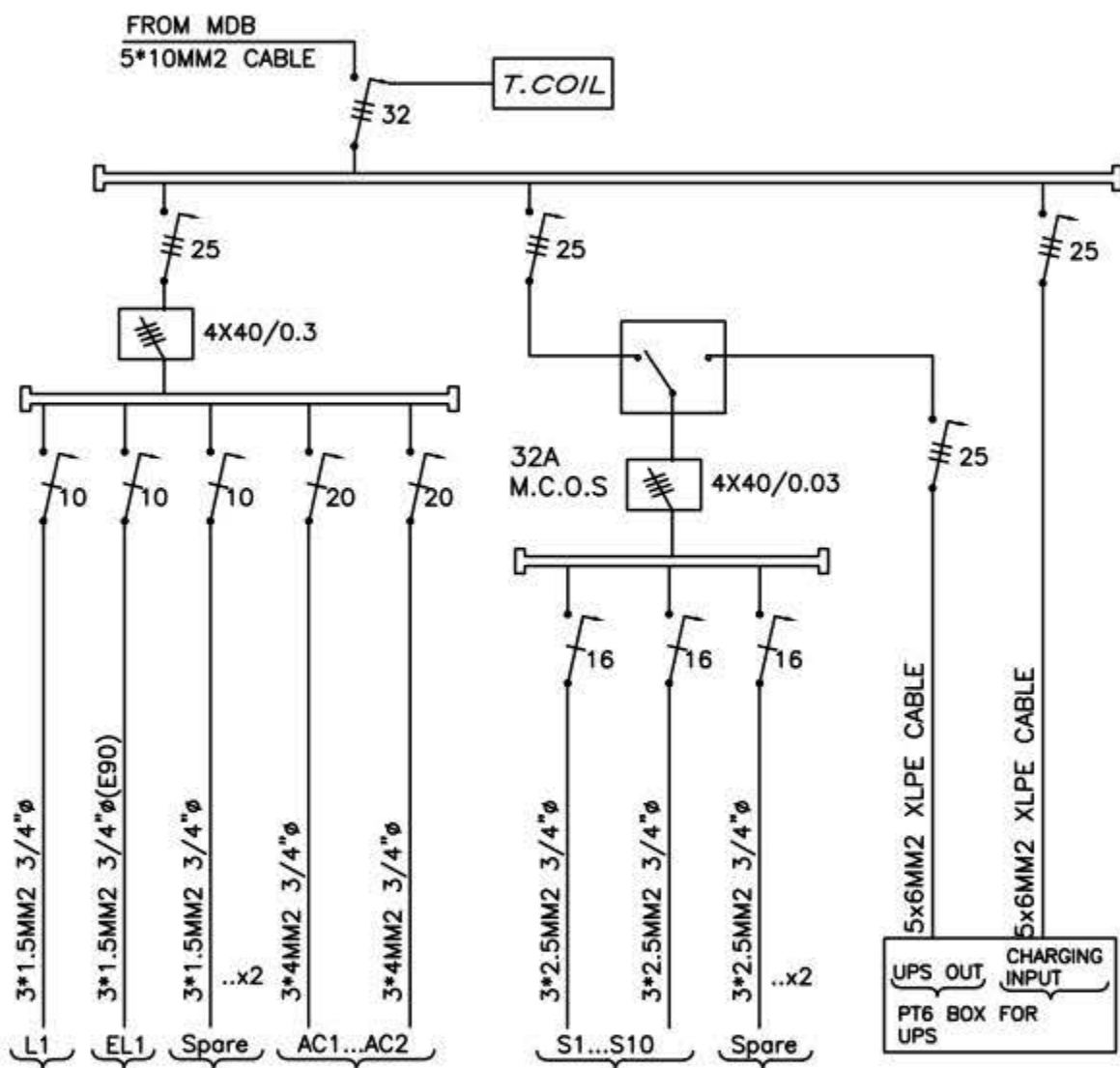
Date: JULY 2005

NAME	1/100	E
GR	RAMALLAH	

Chi	7844.140
Std	74.08

E 601

BOARD NAME: DBC



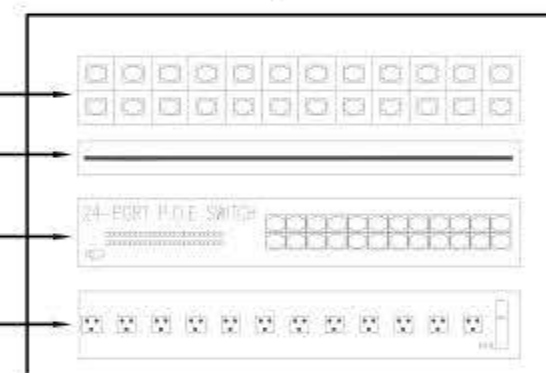
15 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



NO	DATE	DESCRIPTION
1		
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9		
10		



Electrical Engineering

Designed by: F. J. B. 001 001 001

Drawn by: 001

Checked by: F. J. B. 001 001 001

Approved by: F. J. B. 001 001 001

FARUON DESIGN

POWER DIAGRAMS

Date: 001/001/001

Scale: 1/100

City: RAMALLAH

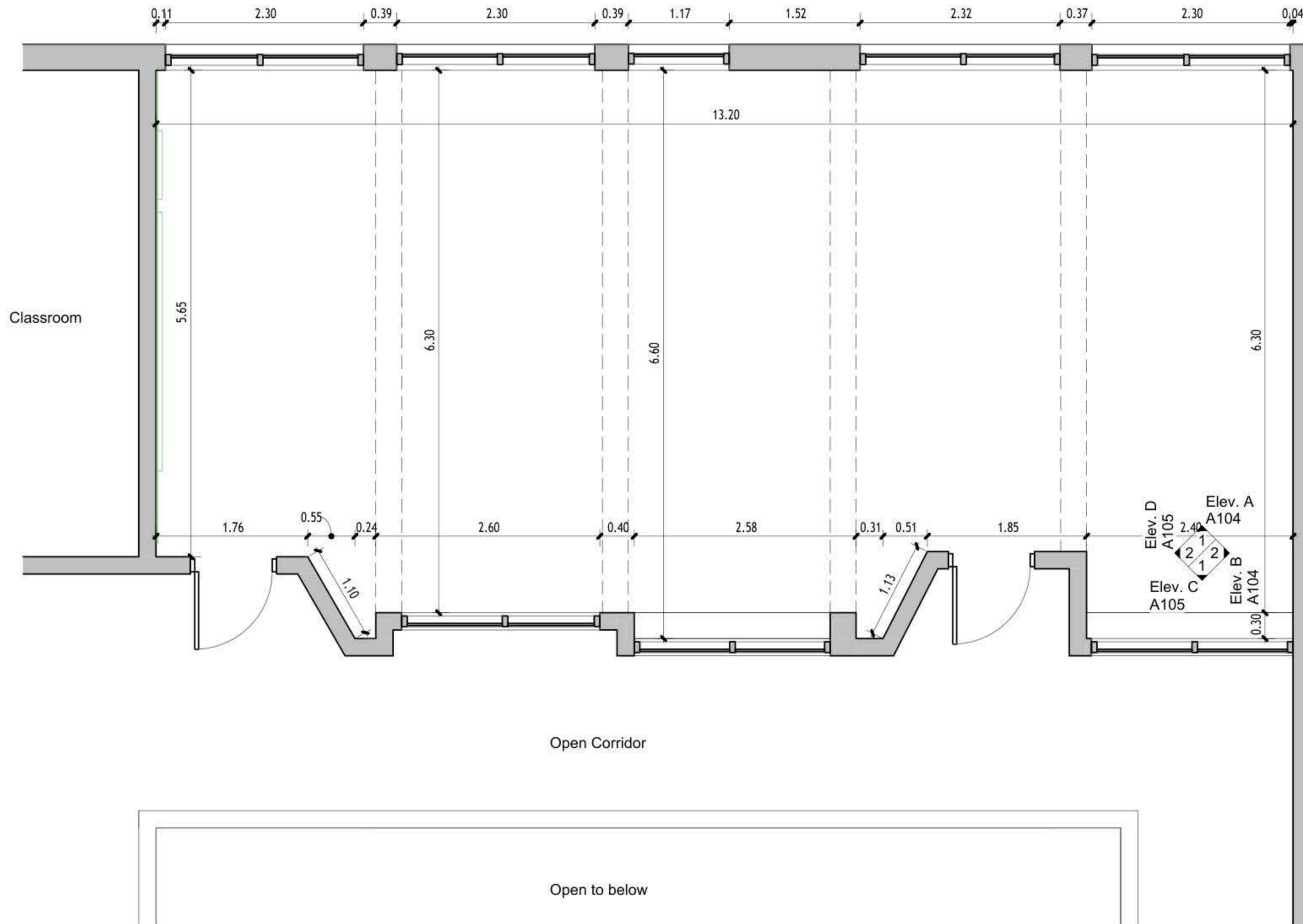
Sheet: 001/001

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Ramein Secondary Boys School





DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

**Eight STEM Labs in Middle and
Northern Governorates**

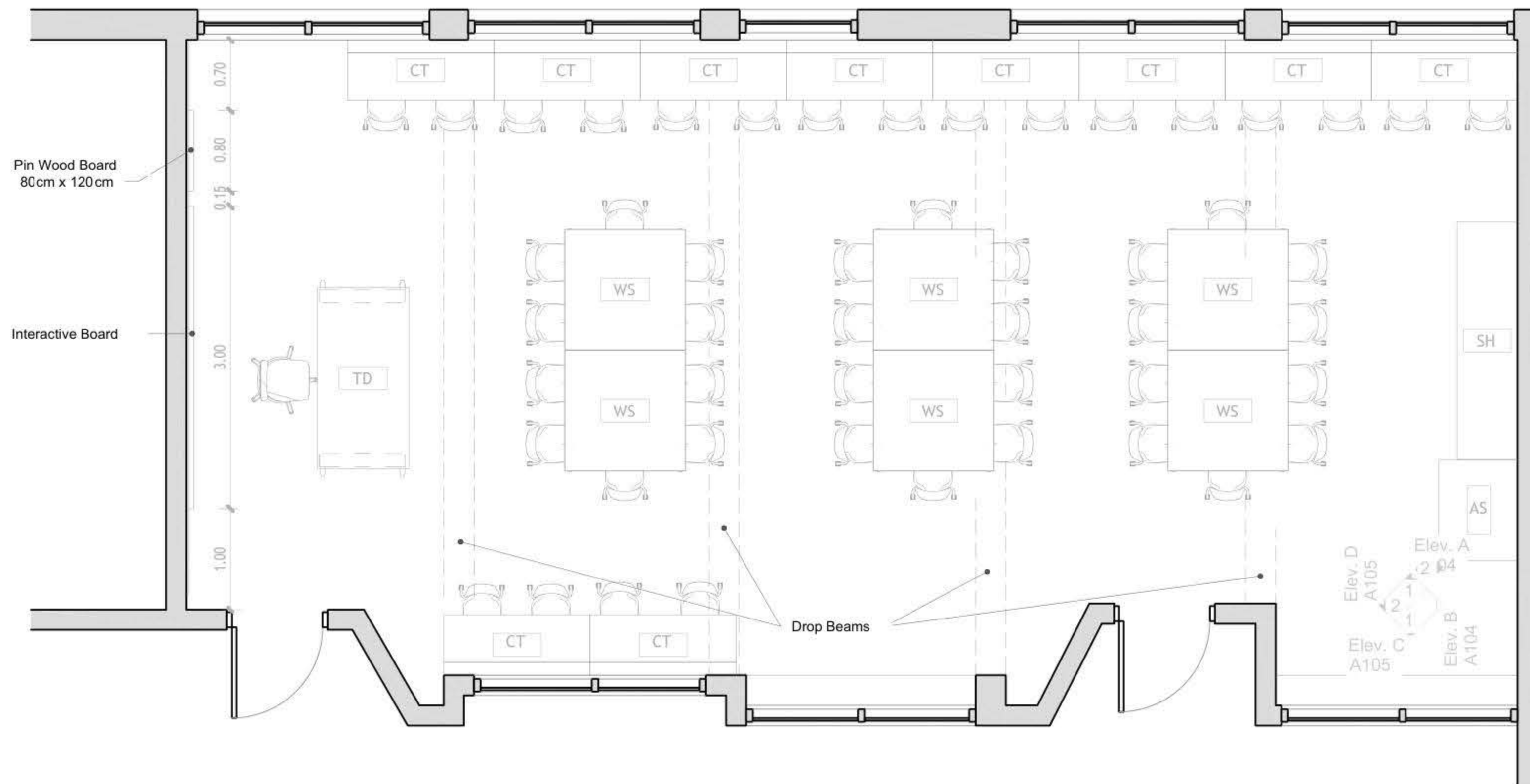
Ramein Secondary Boys School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	BLOCK #
	A101	00
SCALE:	Sht. of	REV. #
1 : 50		

Furniture Schedule		
ID	Description	Count
	Student Chair	45
AS	Arts Storage (A1)	1
CT	Computer Table	10
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	2
WS	Work Station	6



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Architects and Engineers

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

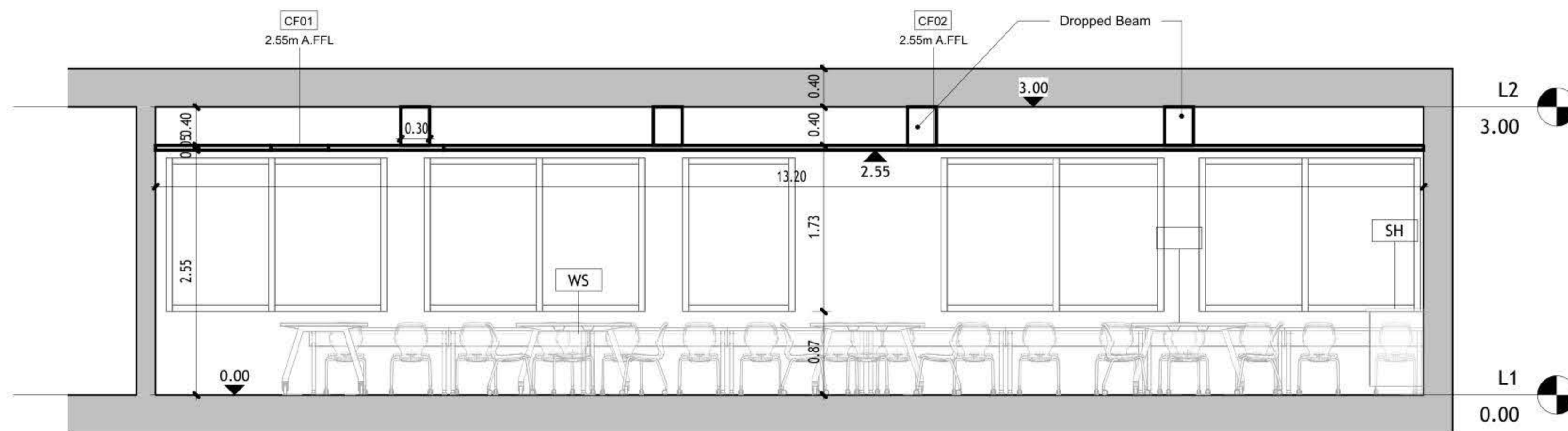
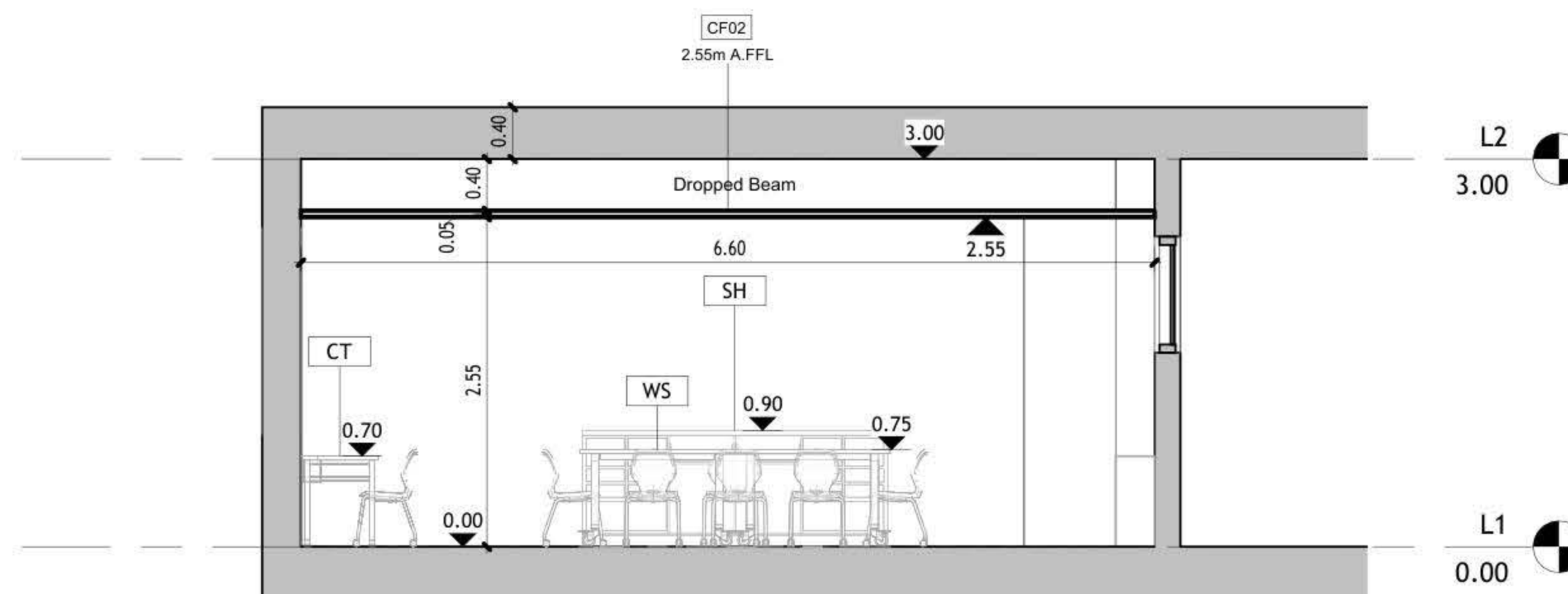
STEM Labs Design- As-Built

Ramein Secondary Boys School

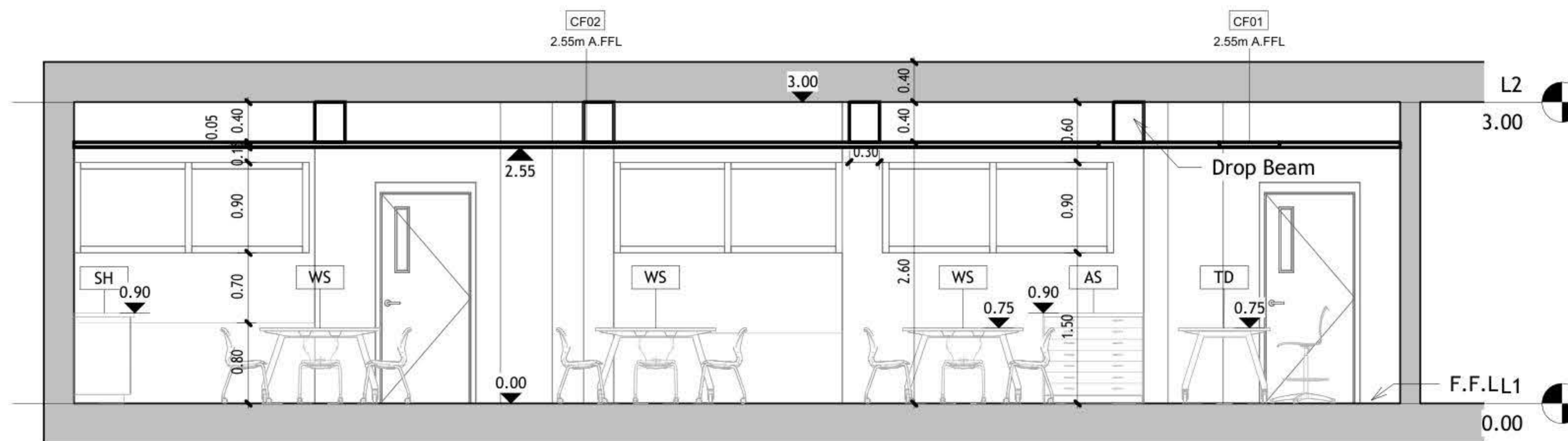
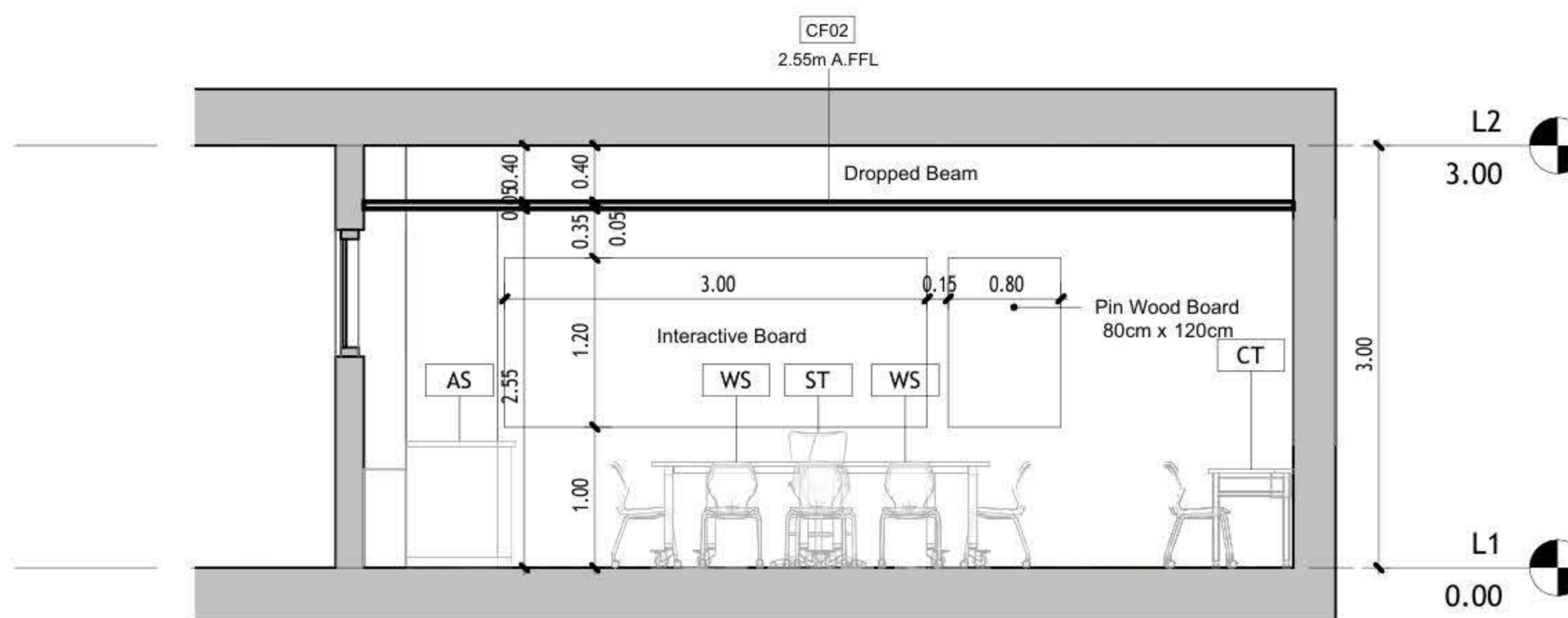
DRAWING TITLE:

Furniture Plan

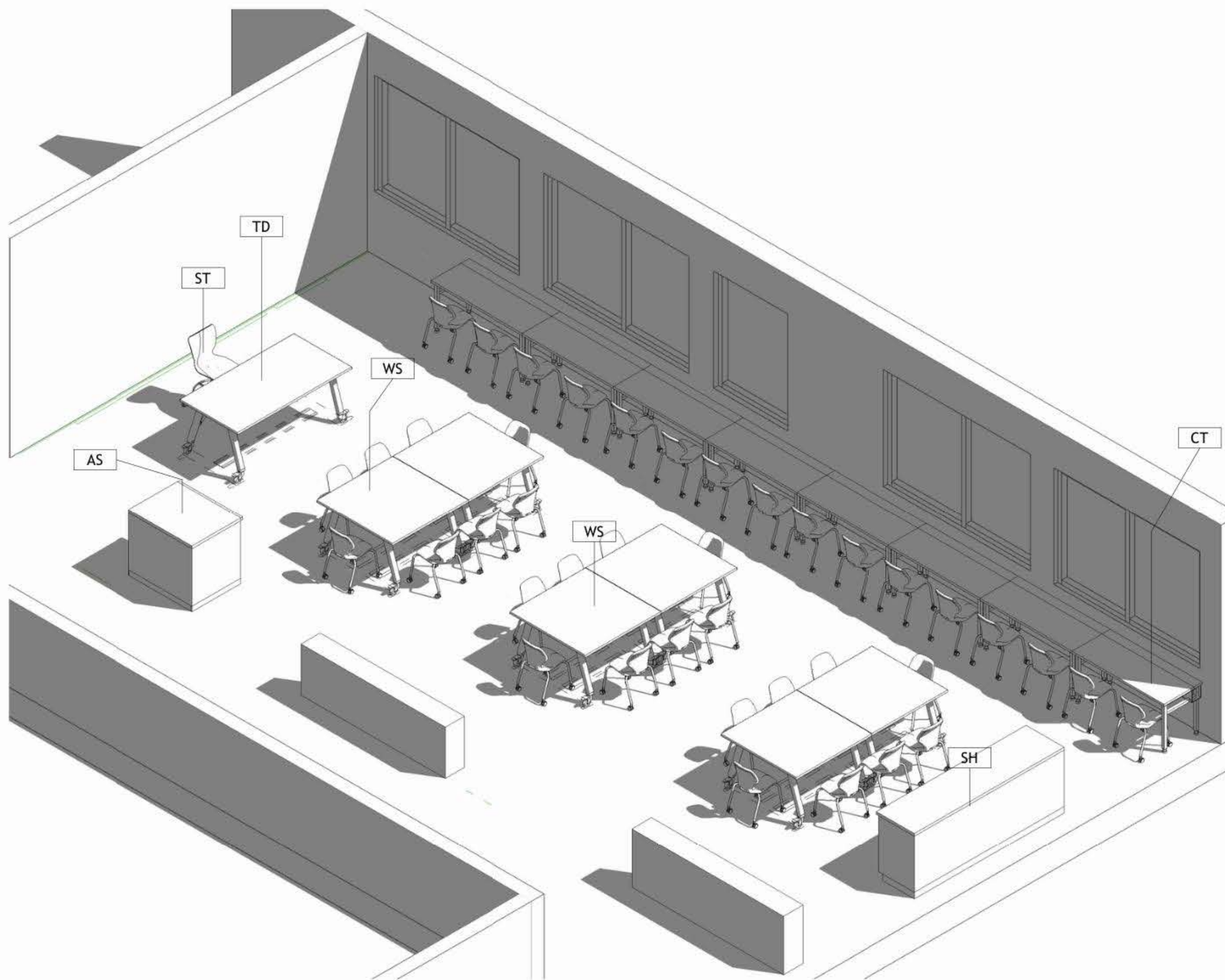
JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV #
1 : 50		



JOB #	DWG A104	BLOCK #	0
SCALE: 1 : 50	Sht. of	REV. #	



JOB #	DWG #	A105	BLOCK #	0
SCALE: 1 : 50	Sht. of		REV. #	



DRAWING NOTES:

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DESIGNED BY:

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DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

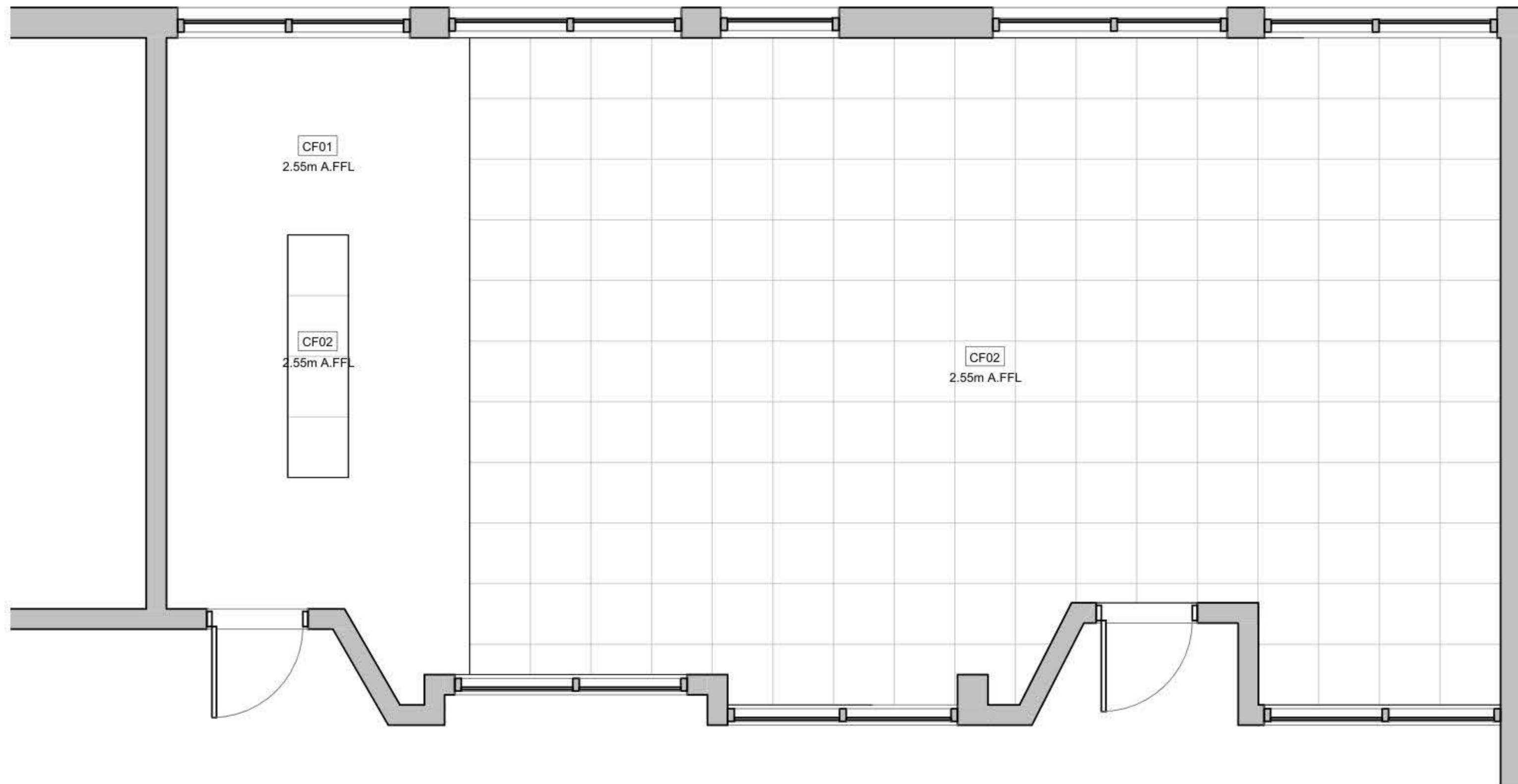
Ramein Secondary Boys School

DRAWING TITLE:

Isometric

JOB #	DWG #	BLOCK #
	A106	00
SCALE:	Sht. of	REV. #

Ceiling Schedule		
Type Mark	Description	Area
CF01	Gypsum Board	16 m ²
CF02	60 * 60 Mineral Fiber Tiles	66 m ²
Grand total: 3		82 m ²



1 Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

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CONSULTANT:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Ramein Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	BLOCK #
	A103	00
SCALE:	Sht. of	REV. #
1 : 50		

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
4		
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6		



Orbit
 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

RAMEEN DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Burrows, Syst

RAMEEN DESIGN

LIGHTING LAYOUT

Date: _____

E 101



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

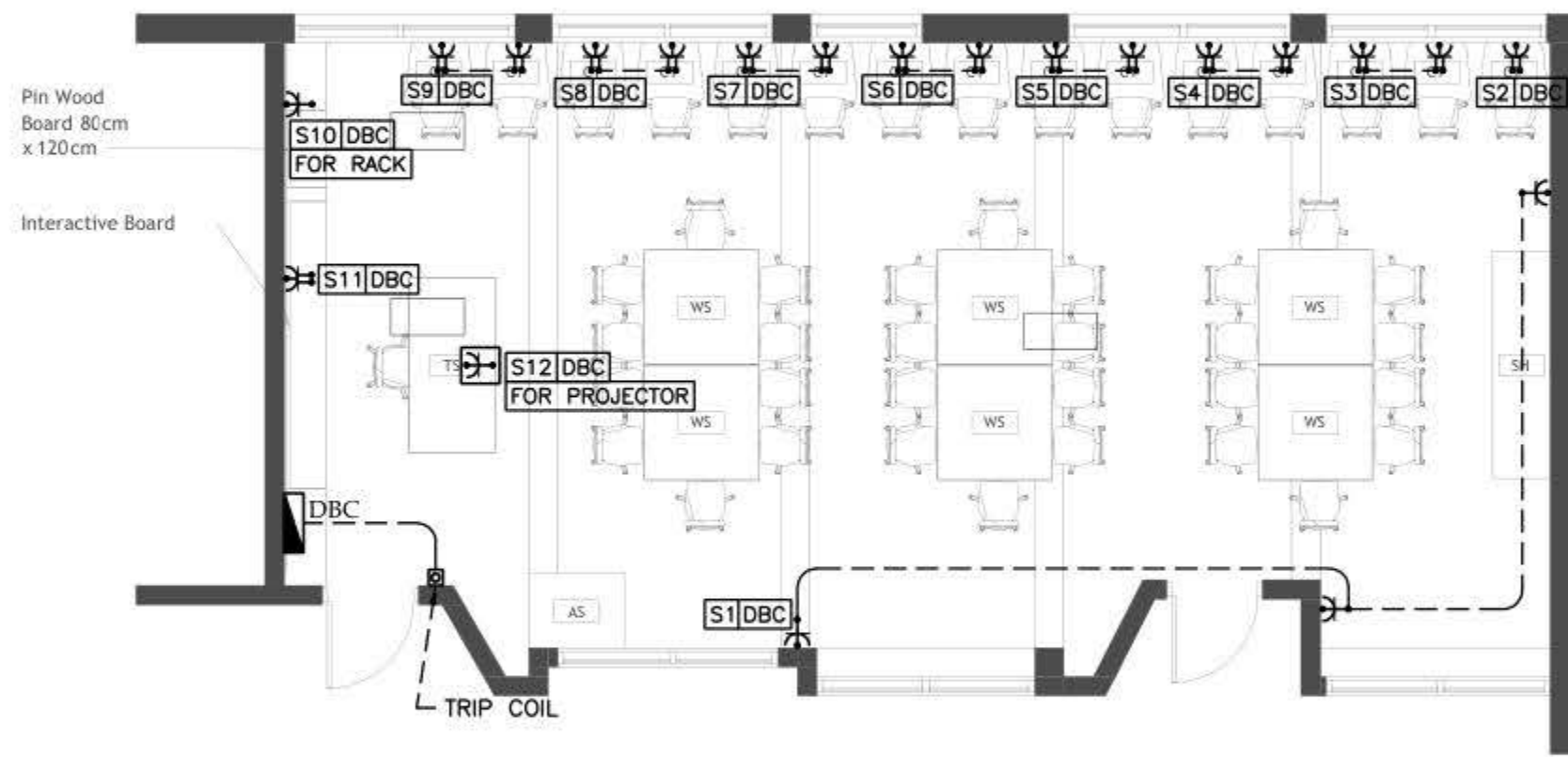
Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Syst

RAMEEN DESIGN

EMERGENCY LIGHTING LAYOUT

E 201



NOTES

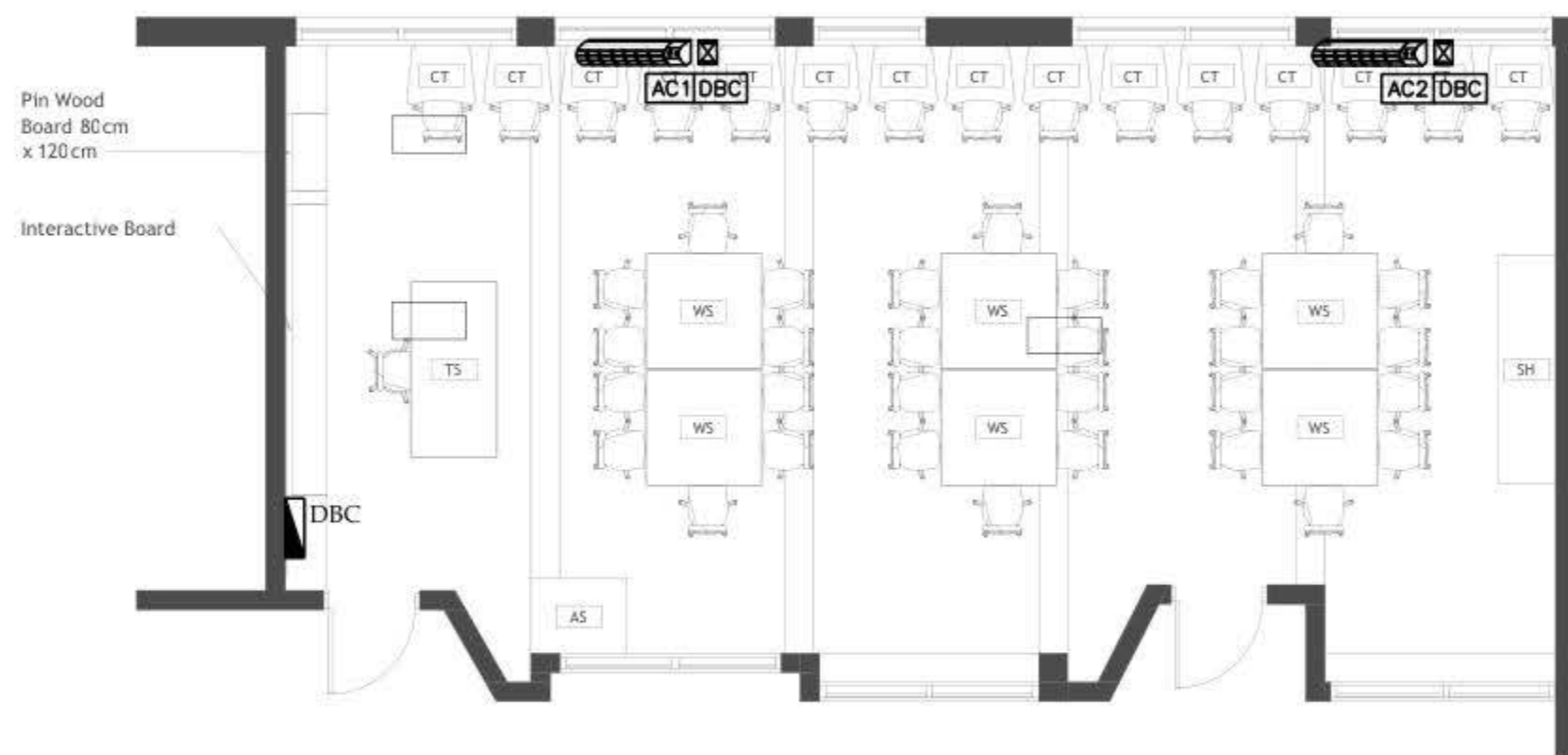
NO	DATE	DESCRIPTION
1		
2		
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4		
5		
6		



Ramallah
 Tel: Fax 02-2967876
 E-Mail : info@orbit.ps
 Website : www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering
 Designed by : F.E. B. 001 001 001
 Drawn by : 001
 Checked by : F.E. B. 001 001 001
 Approved by : F.E. B. 001 001 001
RAMEEN DESIGN

POWER LAYOUT	
Date: 001/001/001	E 301
Scale: 1/100	
City: RAMALLAH	
Sheet: 001	



RAMEEN LAB

NO	DATE	DESCRIPTION
1		
2		
3		
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Electrical Engineering

Downloaded by [F.C. (2014) 0001-0000]

Drawn by	Sign
Checked by	EE Dept. App. Mod.

Approved by: J.F. Burrows, Esq.

RAMEEN DESIGN

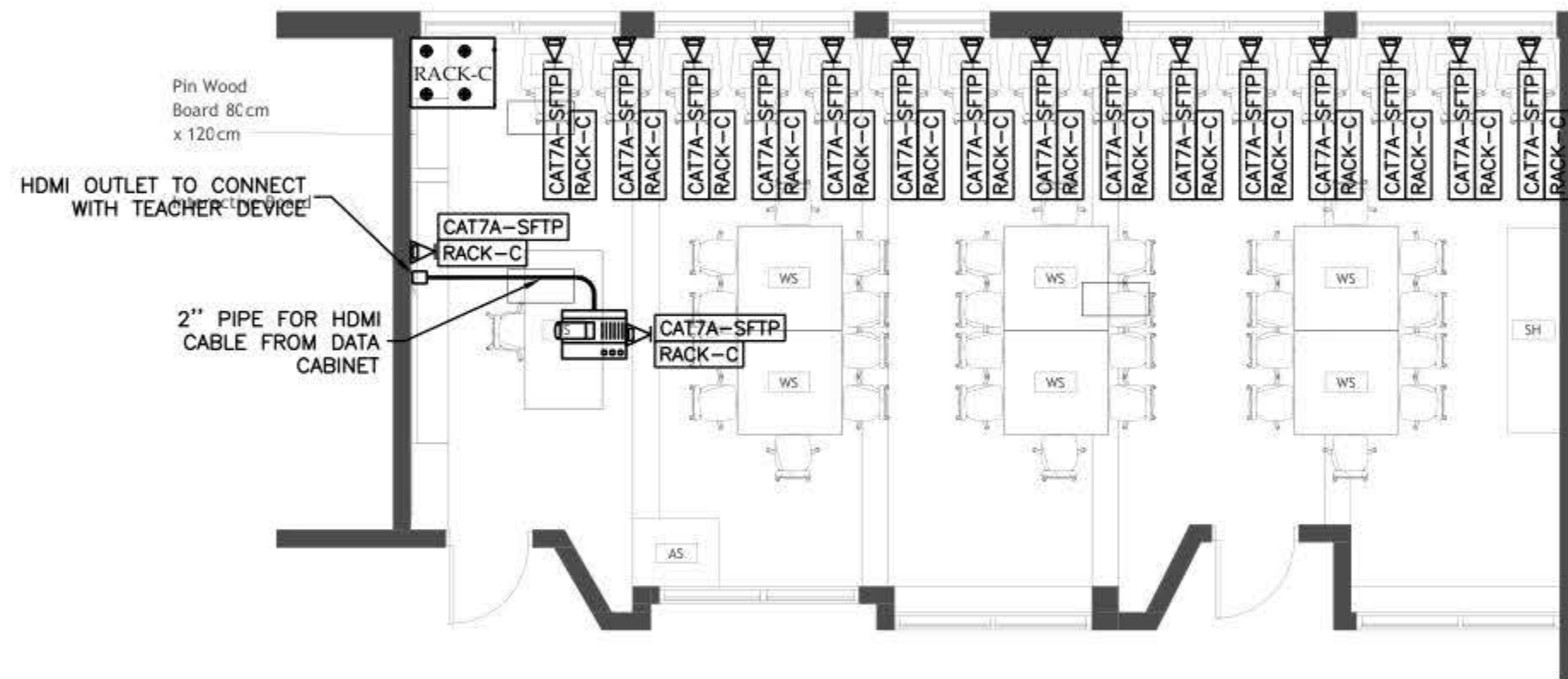
POWER FOR MECH

Date: 08/01/2025

Set: 409

E 401

NOTES



RAMEEN LAB

NO	DATE	DESCRIPTION
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6		

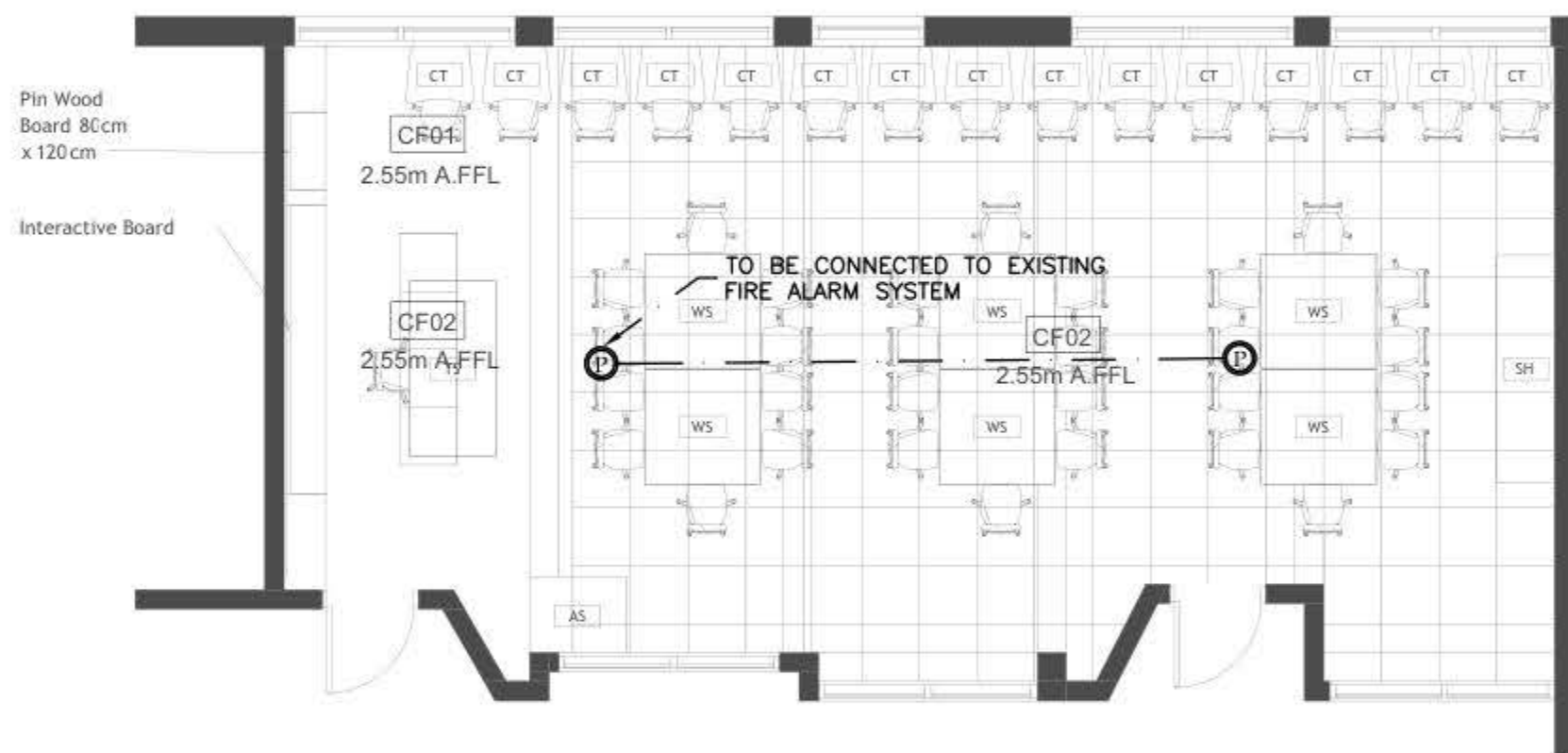

Orbit Ramallah
 Tel: 02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. E. Al-Masri
 Drawn by: F. E. Al-Masri
 Checked by: F. E. Al-Masri
 Approved by: F. E. Al-Masri
RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 501



RAMEEN LAB



Electrical Engineering

Downloaded by [F.C. O'SHEA, M.B. 10029]

Drawn by	_____
Checked by	EE Dept. Admin.

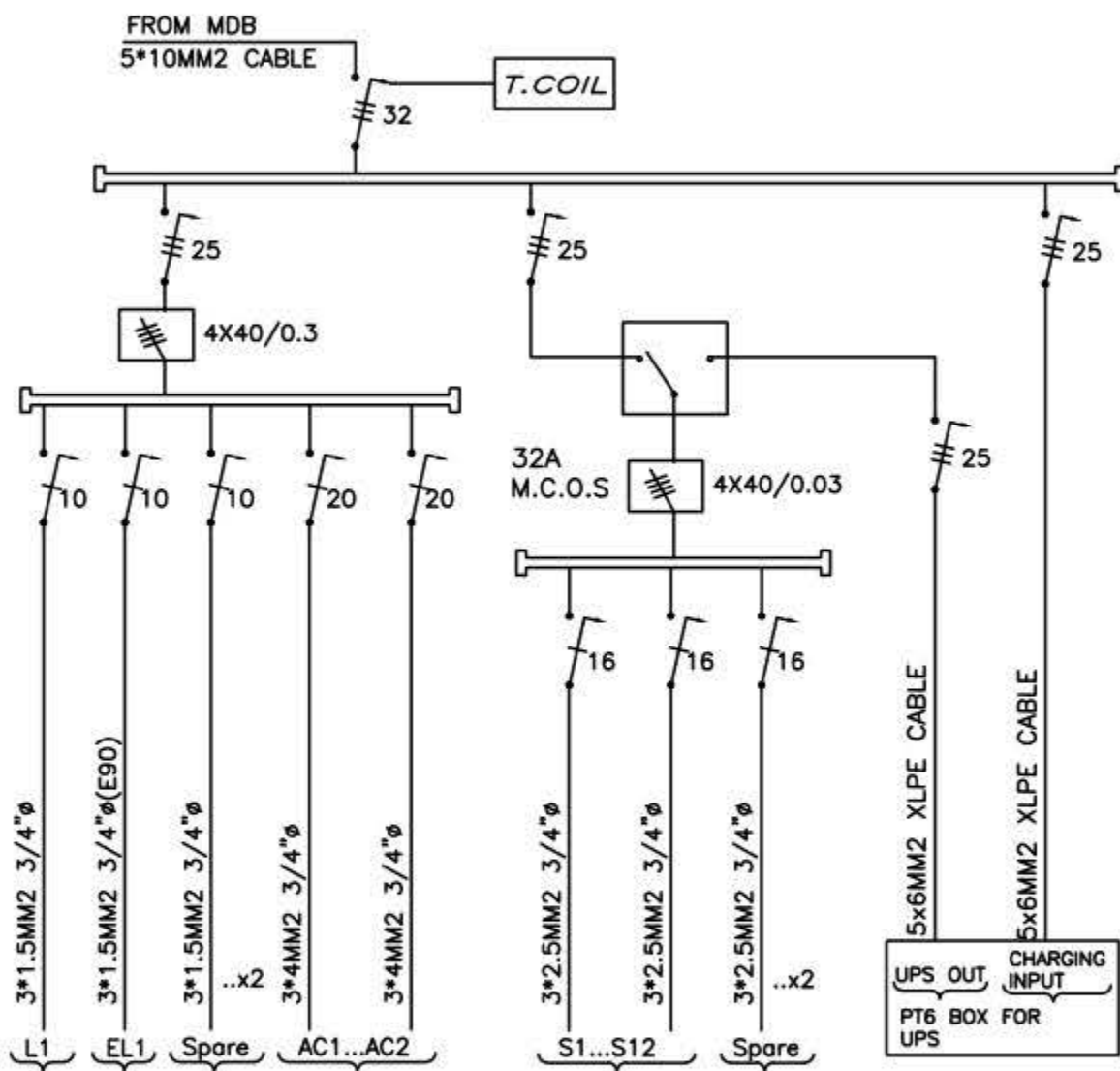
Approved by: J.F. Hernandez, Syst

RAMEEN DESIGN

FIRE ALARM LAYOUT

E 601

BOARD NAME: DBC



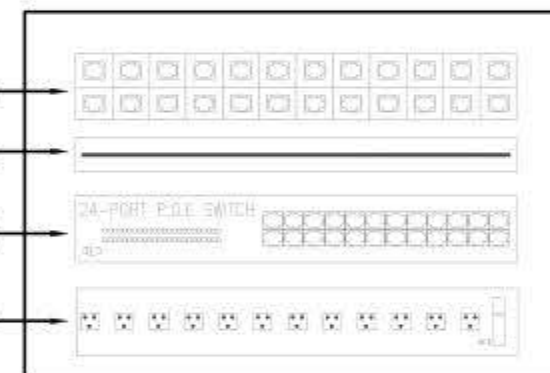
17 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. J. B. 001 001 001

Drawn by: 001

Checked by: F. J. B. 001 001 001

Approved by: F. J. B. 001 001 001

RAMEEN DESIGN

POWER DIAGRAMS

Date: 001/001/001

Scale: 1/100

City: RAMALLAH

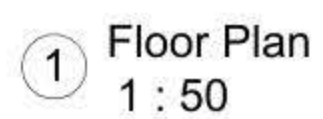
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E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

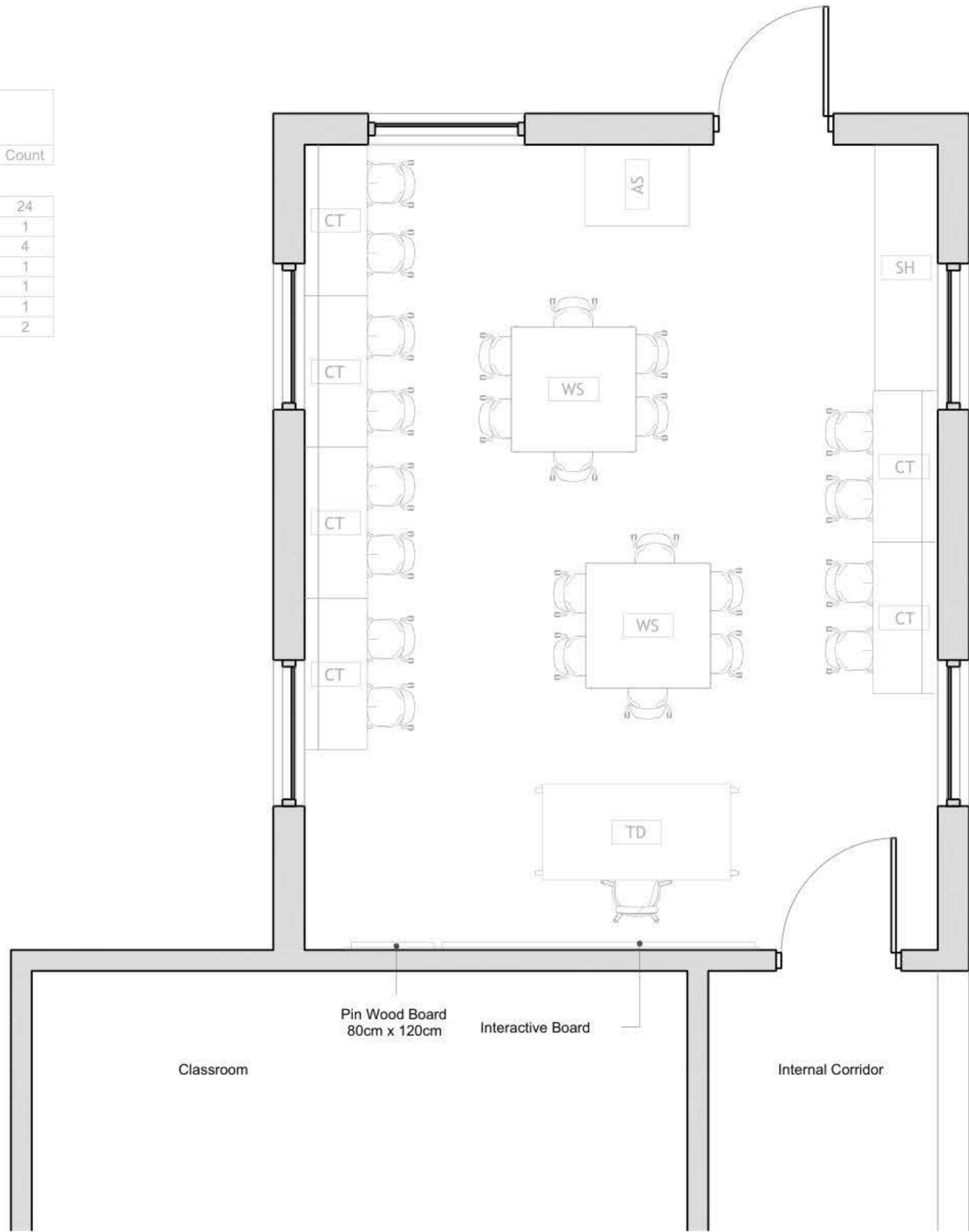
Tammoun Second Basic Boys School





JOB #	DWG #	A101	BLOCK #	0
SCALE: 1 : 50	Sht.	of	REV, #	

Furniture Schedule		
ID	Description	Count
	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	4
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

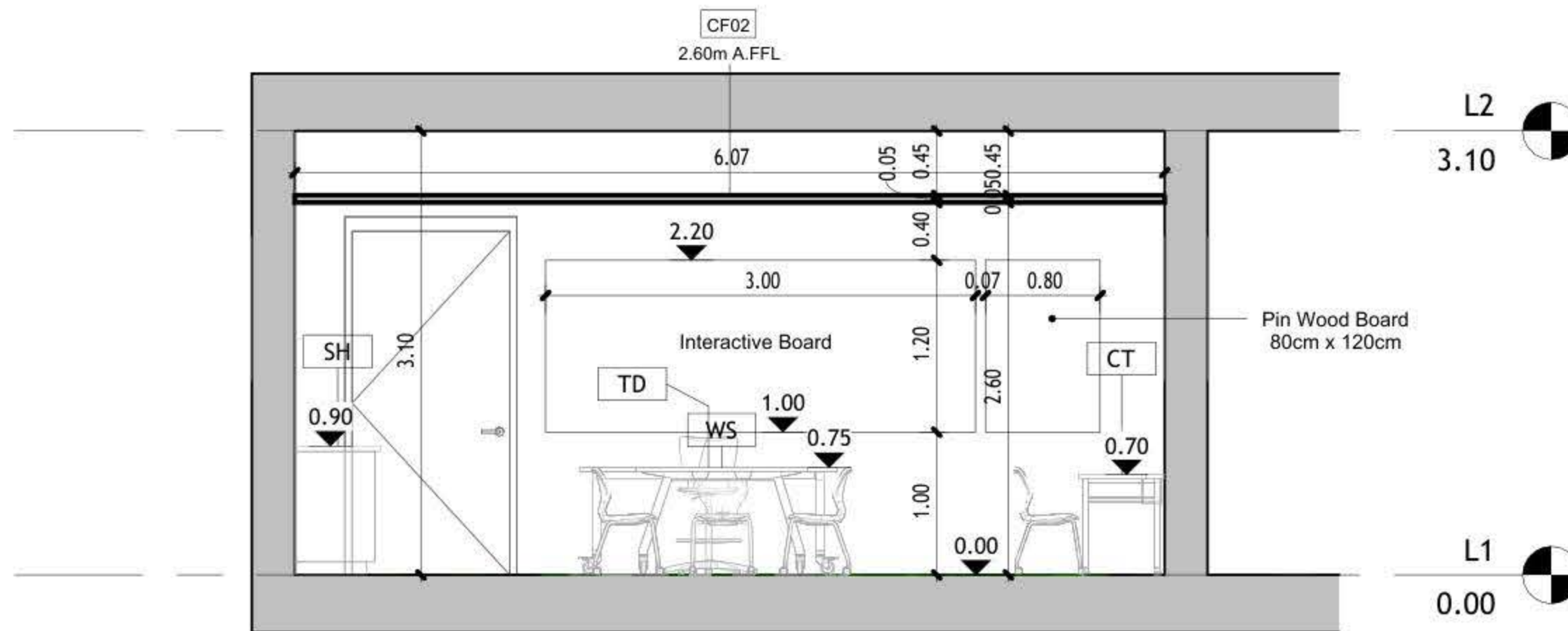
STEM Labs Design- As-Built

Tammoun Second Basic Boys School

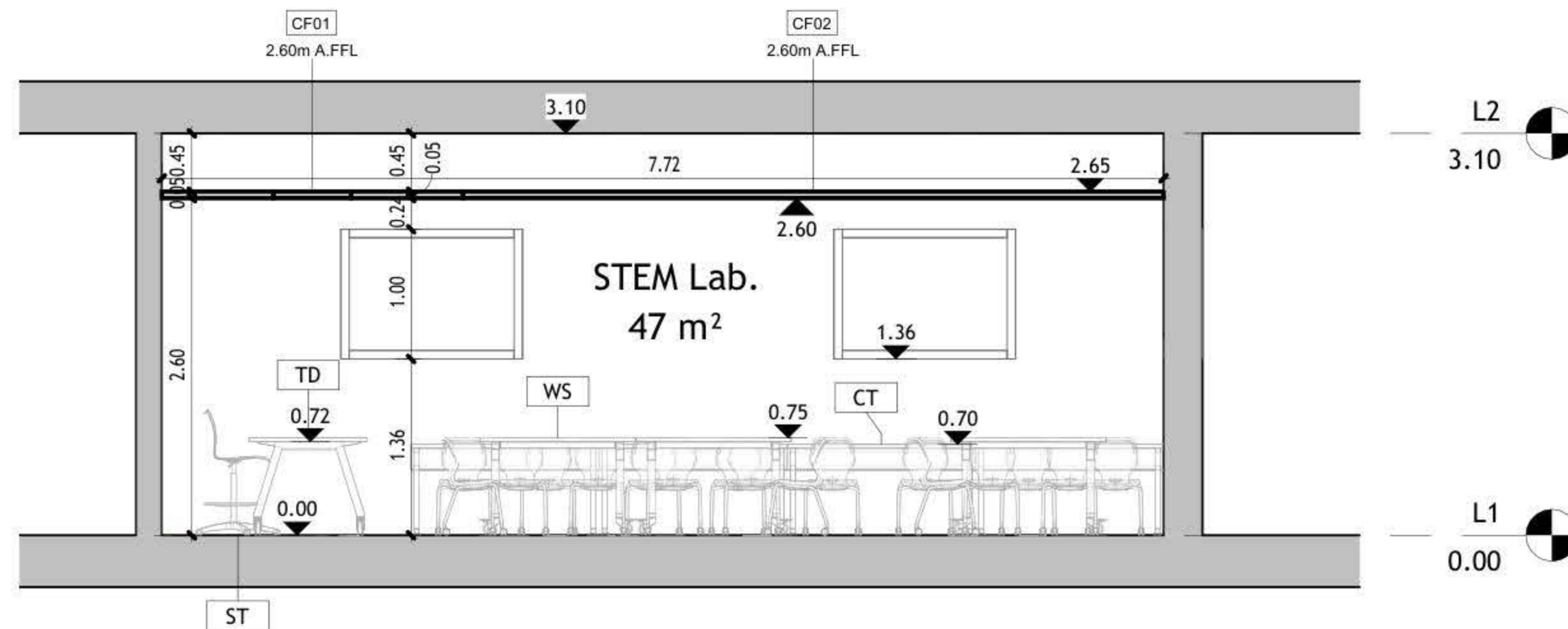
DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	SHL. of	REV. #
1 : 50		



① Elev. C
1 : 50



② Elev. D
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

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PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Tammoun Second Basic Boys School

DRAWING TITLE:

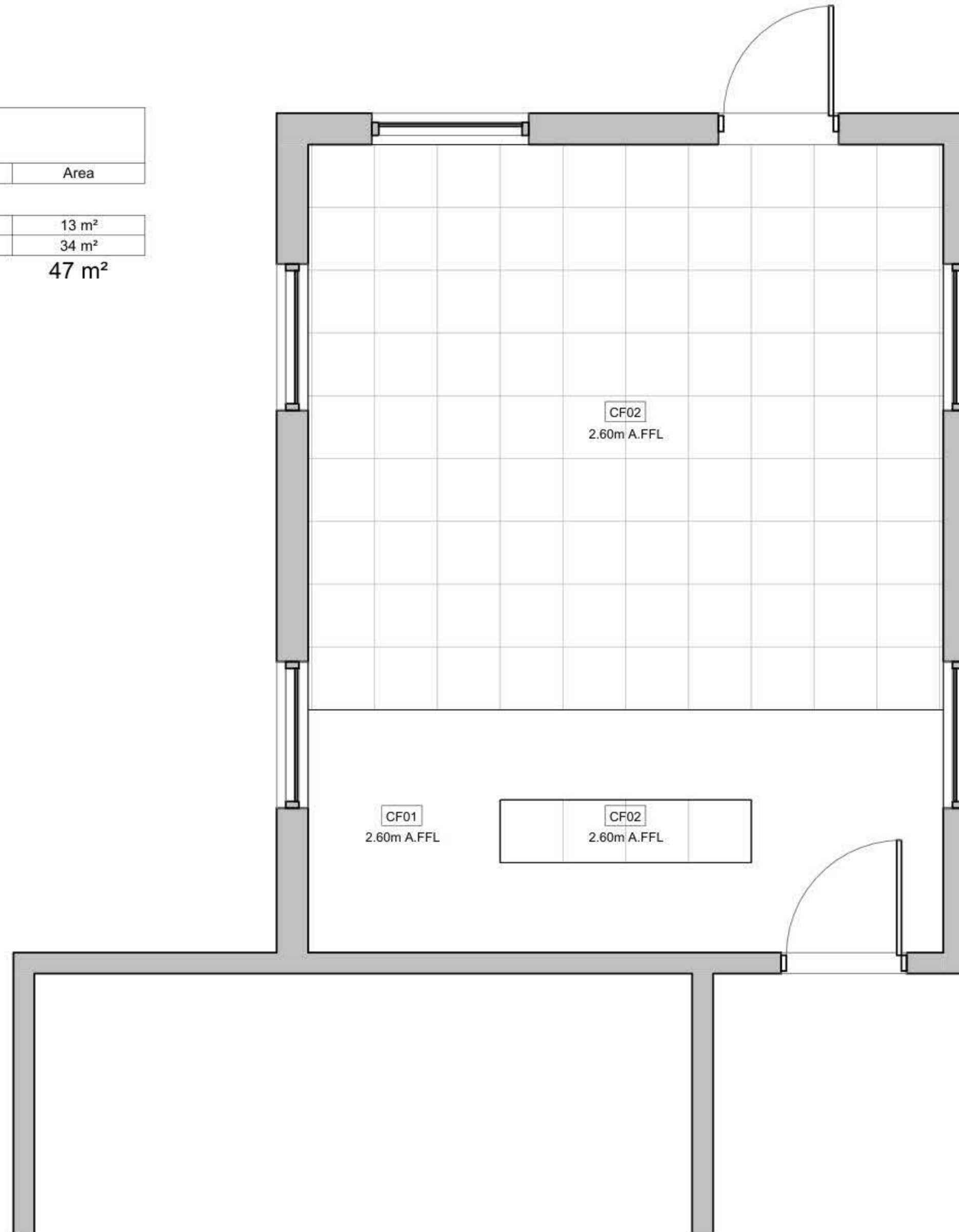
Internal Elevations

JOB #	DWG #	BLOCK #
	A105	00
SCALE:	Sht. of	REV. #
1 : 50		

Ceiling Schedule		
Type Mark	Description	Area

CF01	Gypsum Board	13 m ²
CF02	60 * 60 Mineral Fiber Tiles	34 m ²

Grand total: 3 47 m²



1 Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

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Enabel

CONSULTANT:

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Ramallah, Palestine
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email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Tammoun Second Basic Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	BLOCK #
	A103	00
SCALE:	Sht. of	REV. #
1 : 50		

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOMA CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
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 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

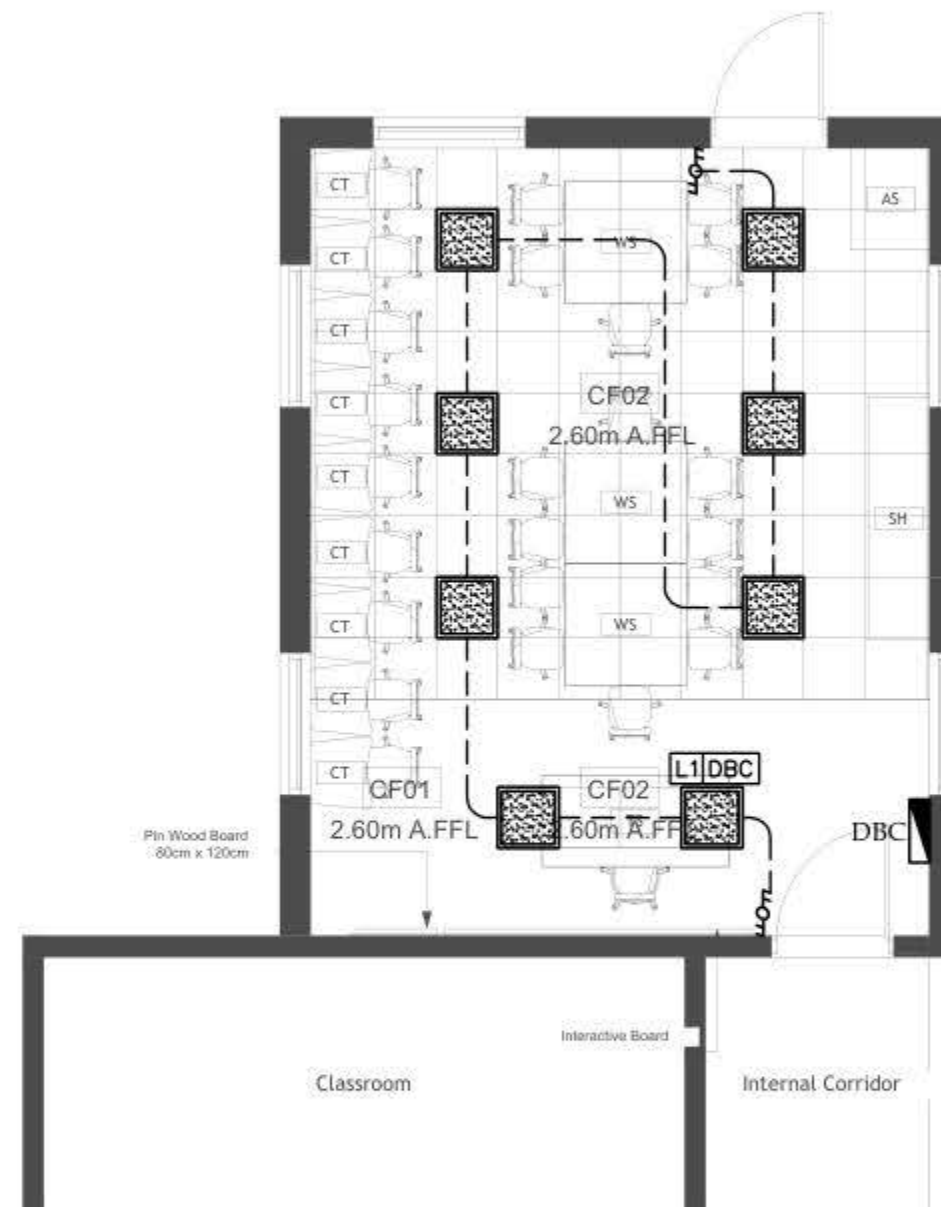
Electrical Engineering

Prepared by: E.E. GHANI ABD. ALKAR
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramadan Sal

TAMMOUN DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	



NOTES

NO	DATE	DESCRIPTION
1		
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4		
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Electrical Engineering

Designed by : F. L. D. 004 001 001
 Drawn by : 001
 Checked by : F. L. D. 004 001 001
 Approved by : F. L. D. 004 001 001

TAMMOUN DESIGN

LIGHTING LAYOUT

Date: 001/2005
 Scale: 1/100
 City: RAMALLAH
 Sheet: 001

E 101



TAMMOUN LAB



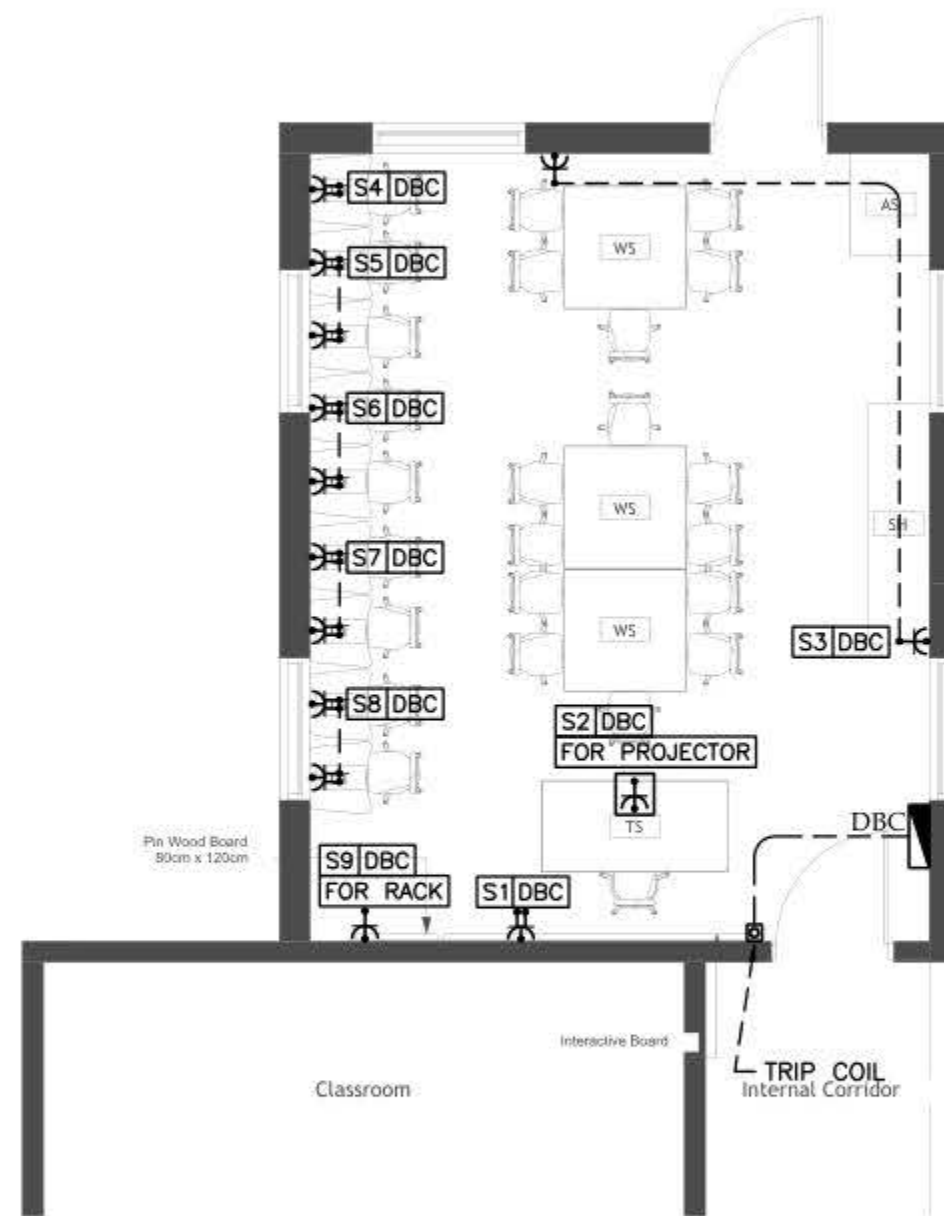
Electrical Engineering

Designed by: J.C. BOWMAN
Drawn by: [Signature]
Checked by: E.E. Abbott
Assigned by: L.F. Burdette

TAMMOUN DESIGN

EMERGENCY LIGHTING LAYOUT

E 201



NOTES

NO	DATE	DESCRIPTION
1		
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Electrical Engineering

Designed by: F. J. D. 001 001 001

Drawn by: 001

Checked by: F. J. D. 001 001 001

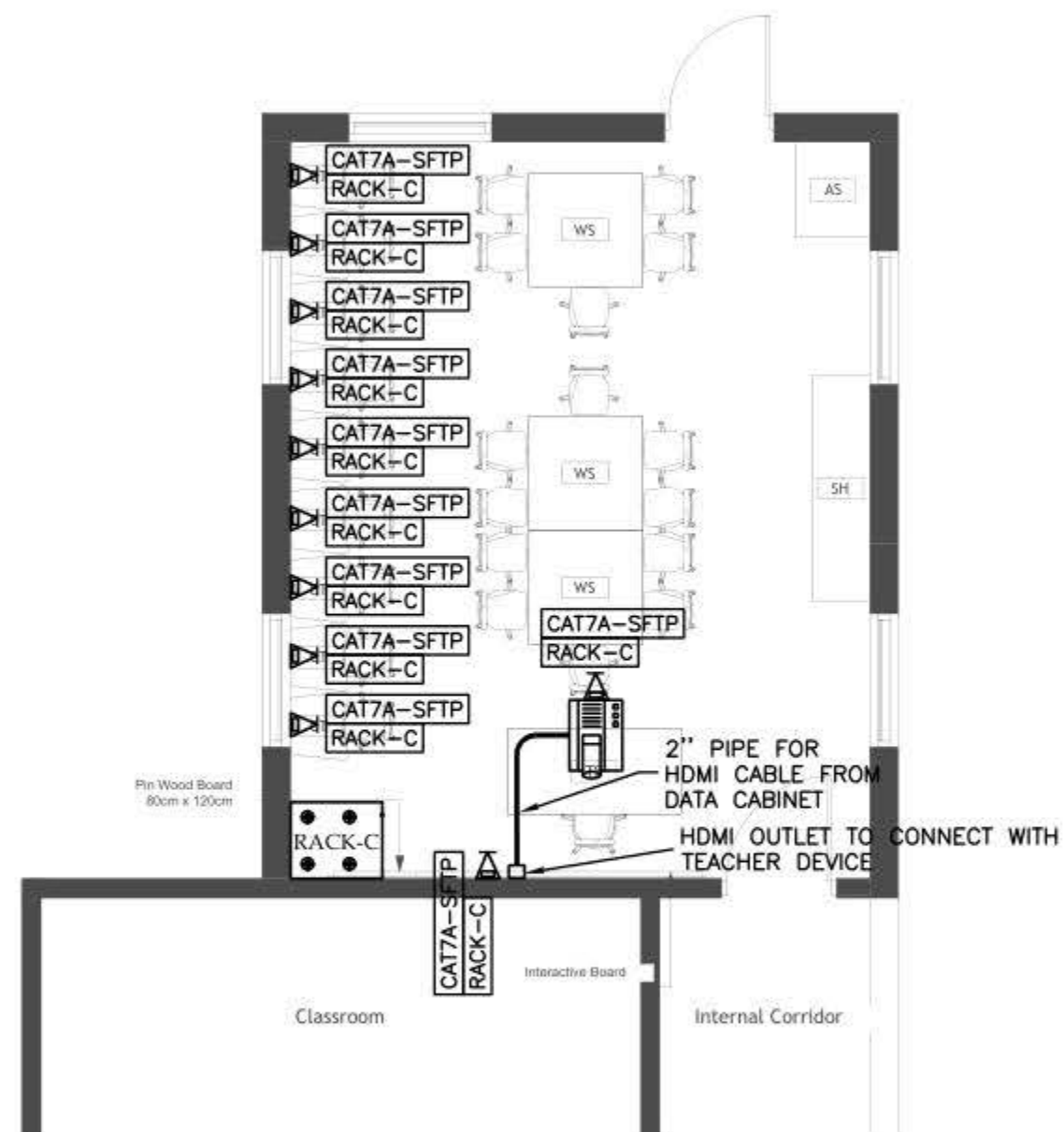
Approved by: F. J. D. 001 001 001

TAMMOUN DESIGN

POWER LAYOUT

Date: 001/001/001
Scale: 1/100
City: RAMALLAH
Sheet: 001/001

E 301



TAMMOUN LAB



Electrical Engineering

Designed by: P. C. B. 2001-2002

Drawn by: _____
Checked by: E.E. Dept. 445-1001

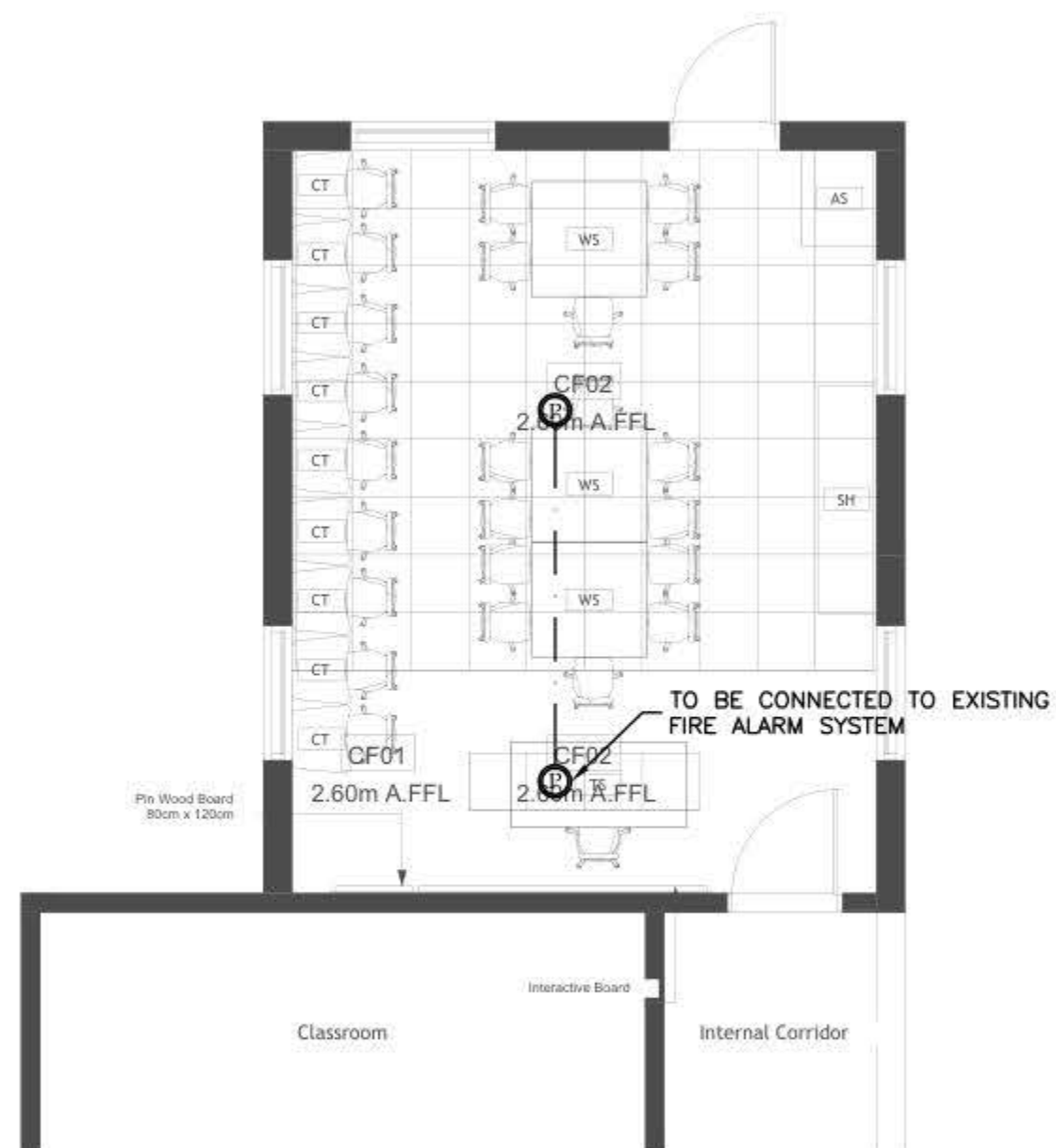
Approved by: J. E. Harnett, Esq.

TAMMOUN DESIGN

LOW VOLTAGE LAYOUT

Date: 30.01.2025

E 501



TAMMOUN LAB



Electrical Engineering

Downloaded by [F.C. (2014) 0001-0000]

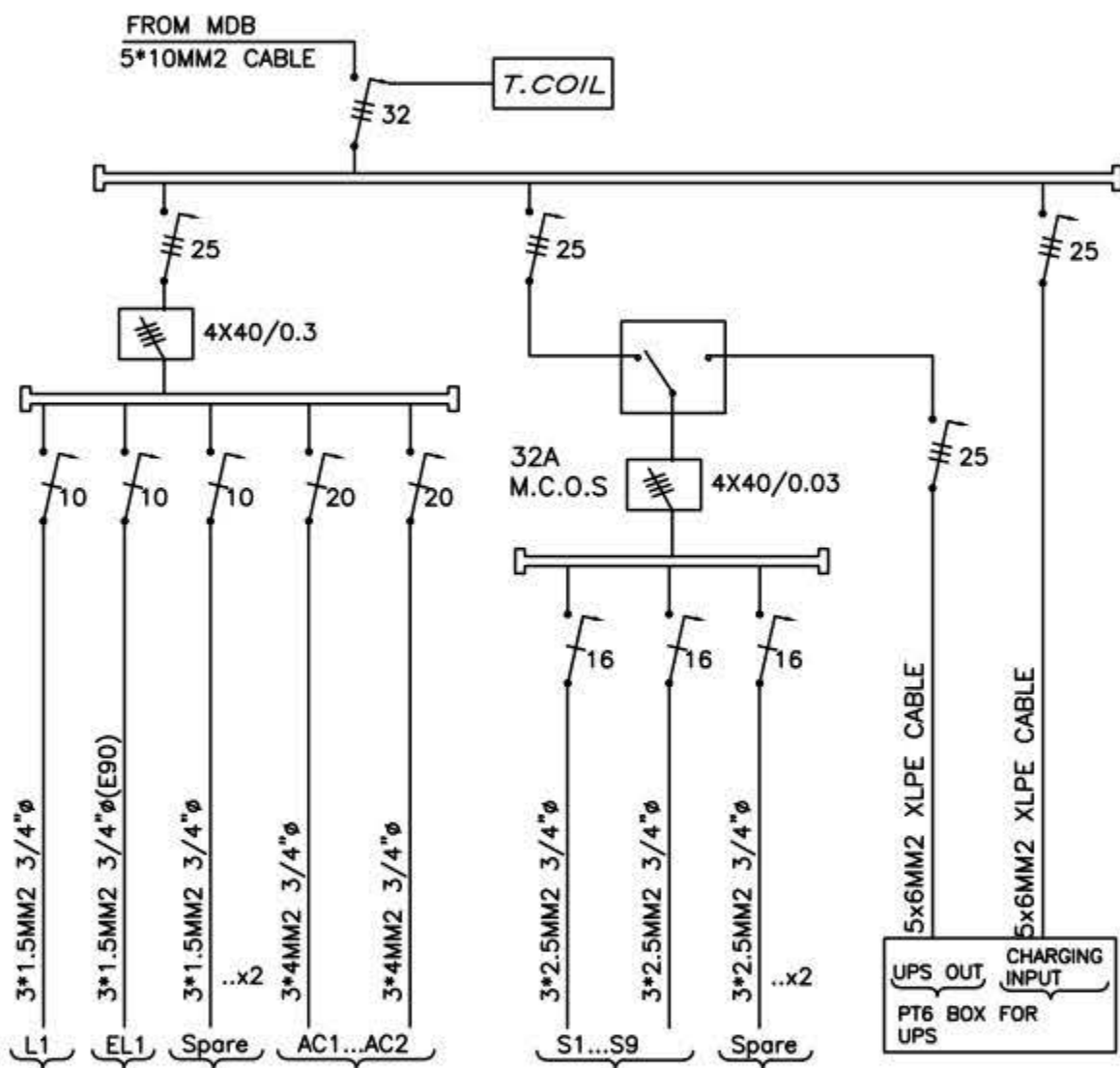
Approved by: L.F. Burdette, Esq.

TAMMOUN DESIGN

FIRE ALARM LAYOUT

E 601

BOARD NAME: DBC



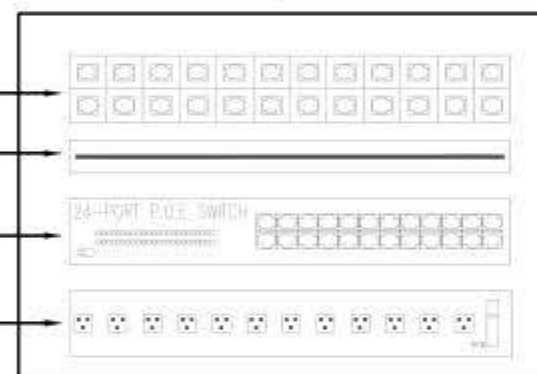
11 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



Electrical Engineering

Designed by: F. El-Badry MSc Eng

Drawn by: Sami

Checked by: F. El-Badry MSc Eng

Approved by: F. El-Badry MSc Eng

TAMMOUN DESIGN

POWER DIAGRAMS

Date: 01/11/2025

Scale: 1/100

City: RAMALLAH

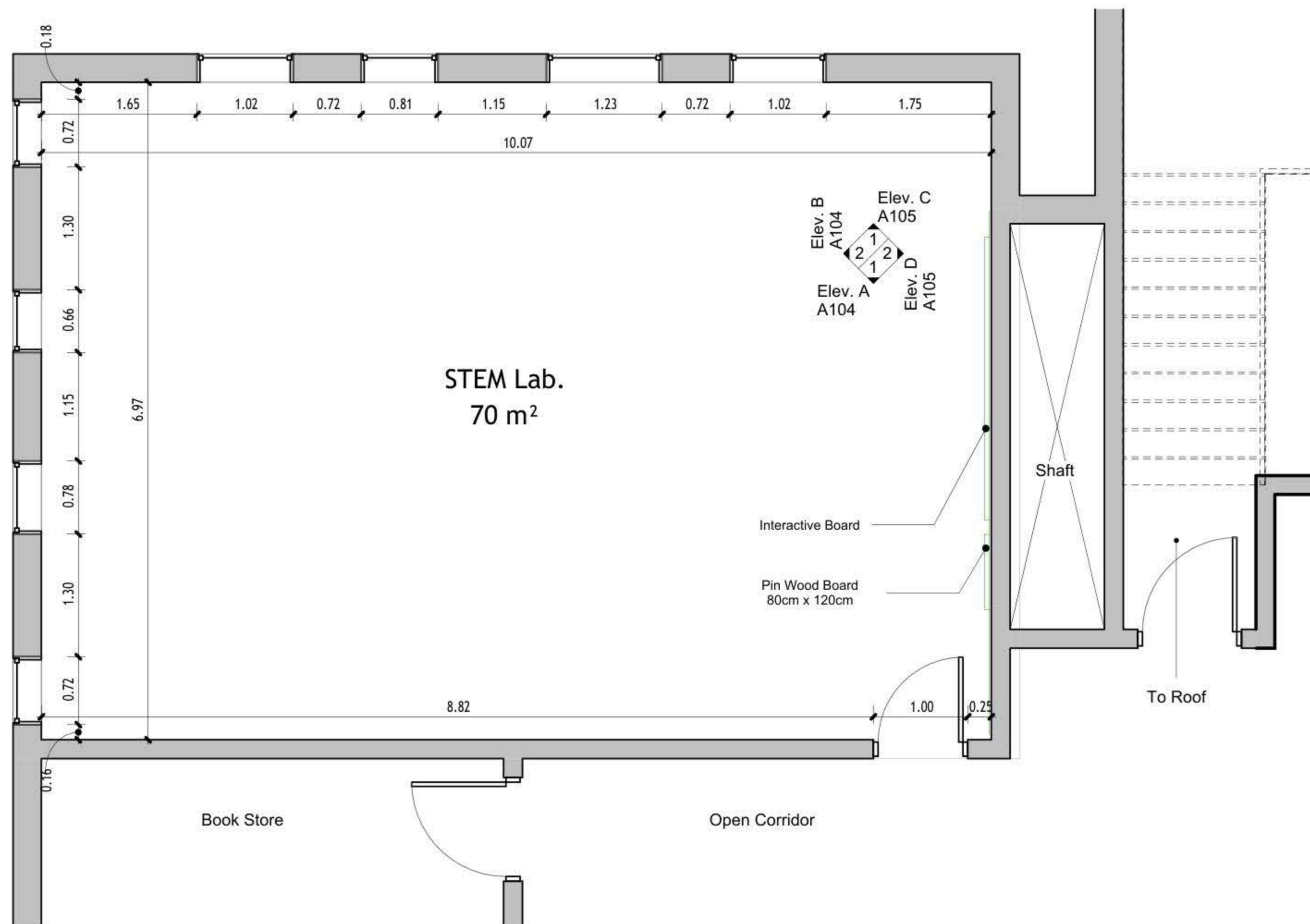
Sheet: 2/2008

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Musqat Secondary Boys School





1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

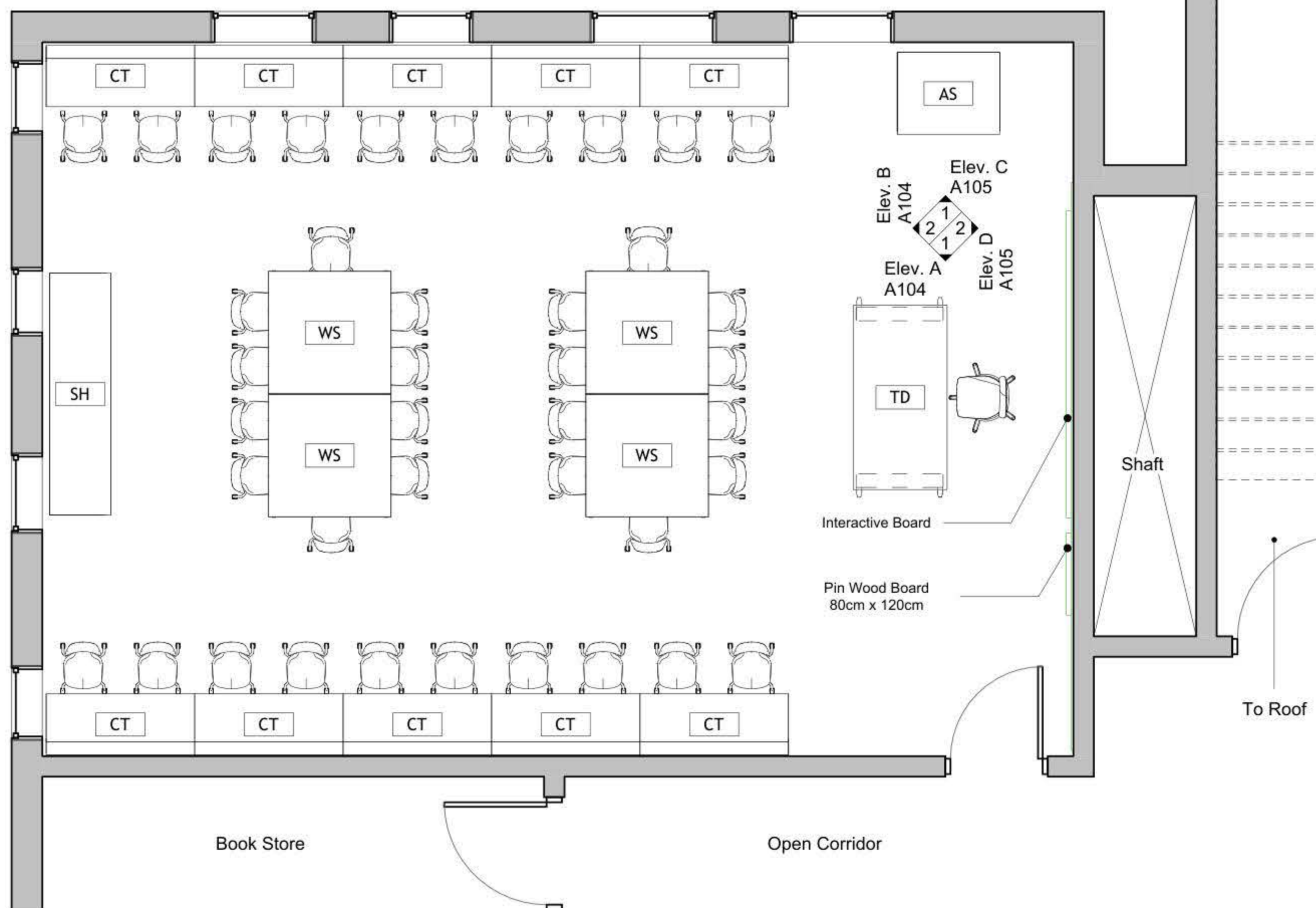
Musqat Secondary Boys School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	BLOCK #
	A101	00
SCALE:	Sht. of	REV. #
1 : 50		

Furniture Schedule		
ID	Description	Count
	Student Chair	40
AS	Arts Storage (A1)	1
CT	Computer Table	10
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	4



1 Furniture Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

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CONSULTANT:

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

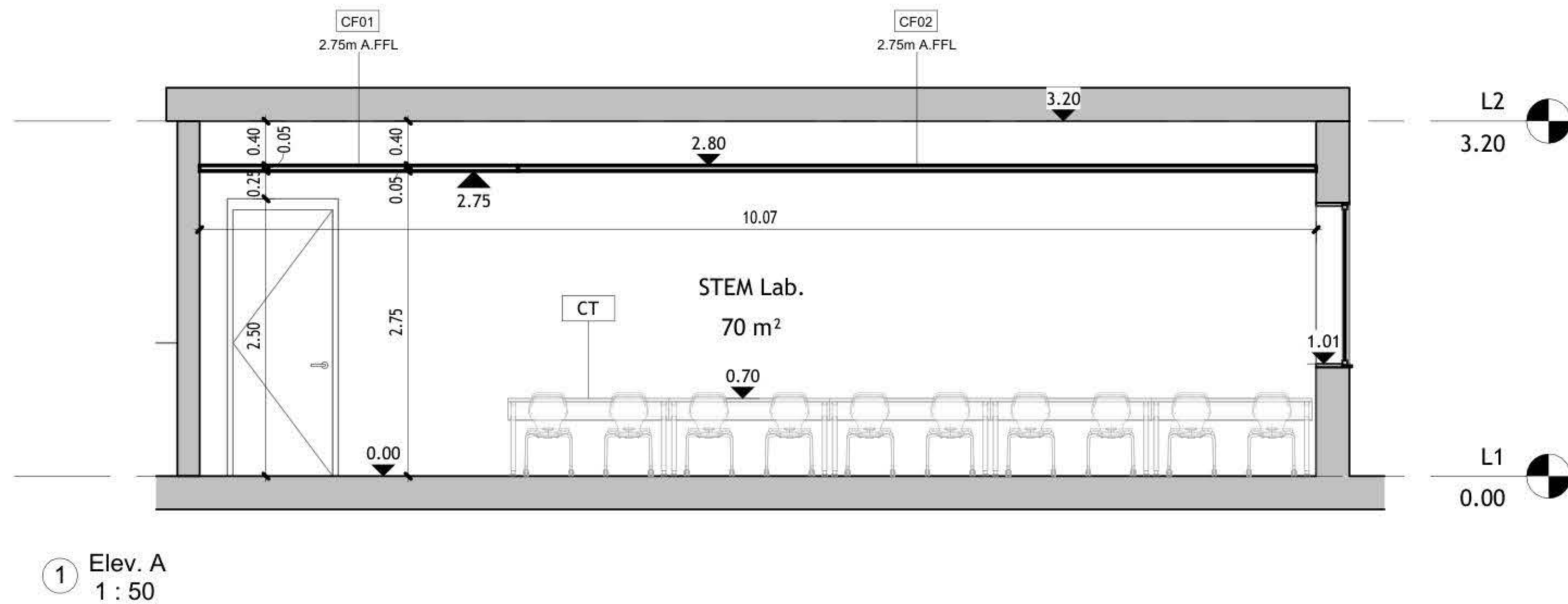
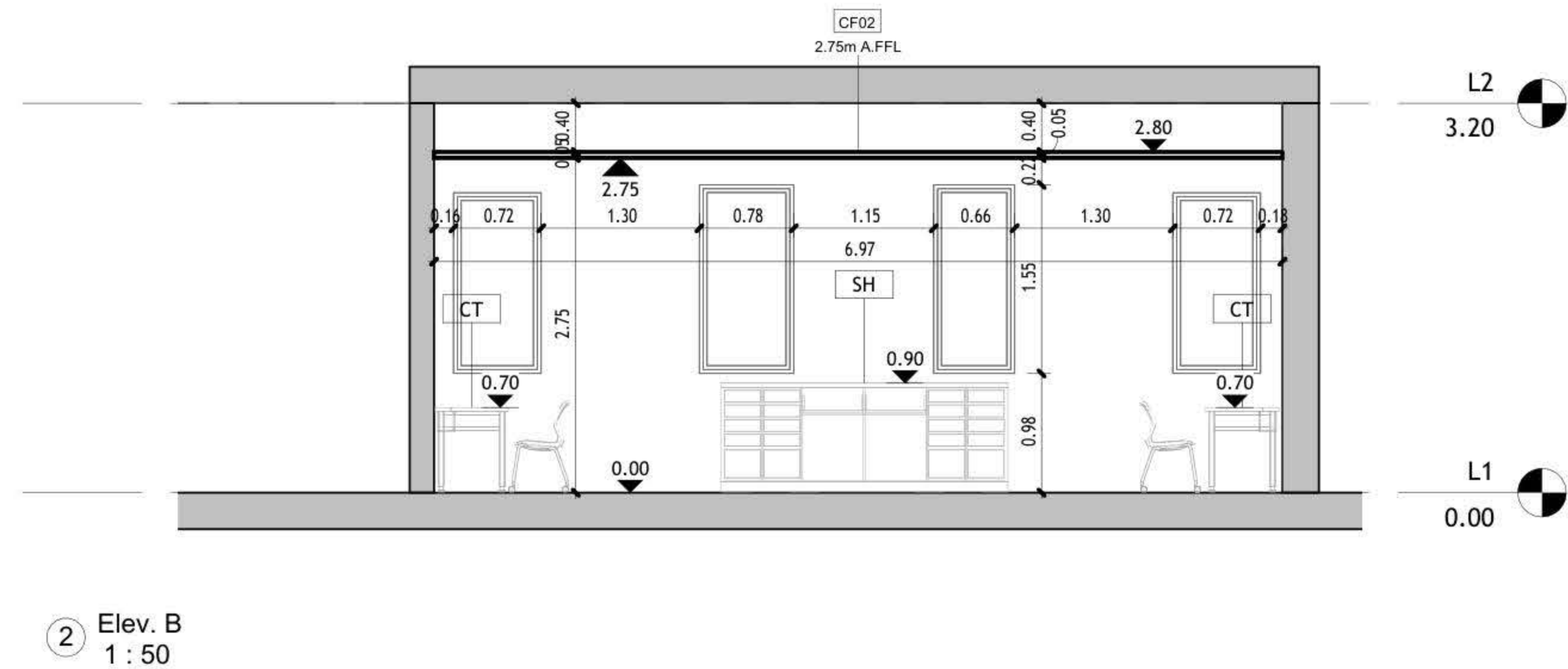
Eight STEM Labs in Middle and
Northern Governorates

Musqat Secondary Boys School

DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV. #
1 : 50		



DRAWING NOTES:

Contracting Authority:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

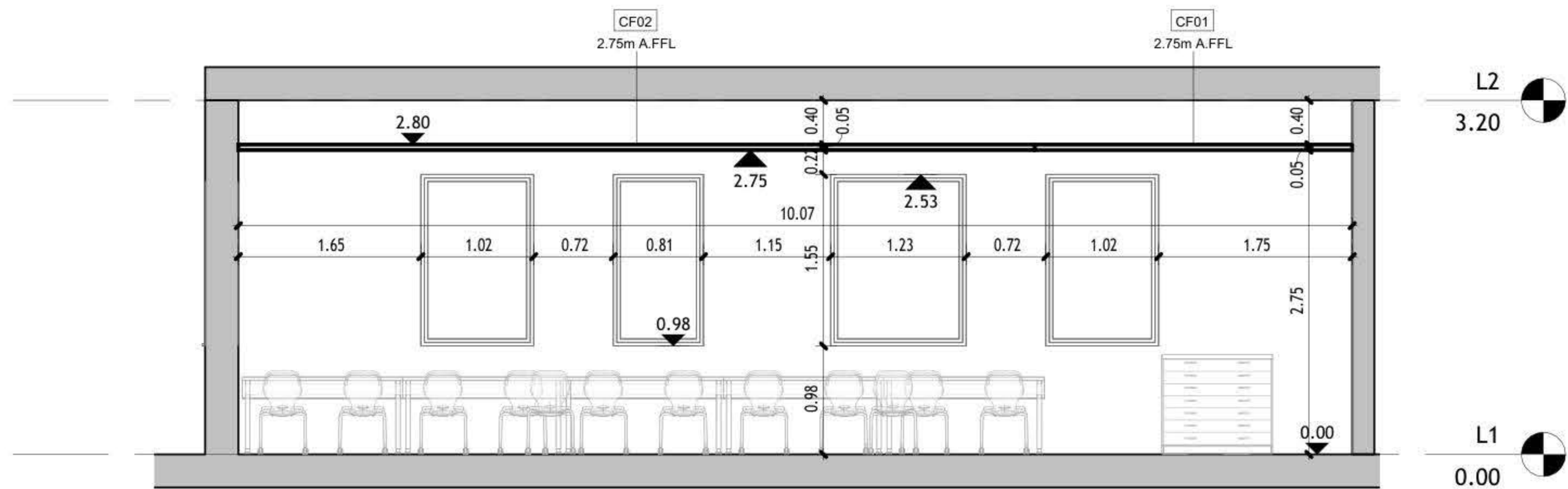
Eight STEM Labs in Middle and
Northern Governorates

Musqat Secondary Boys School

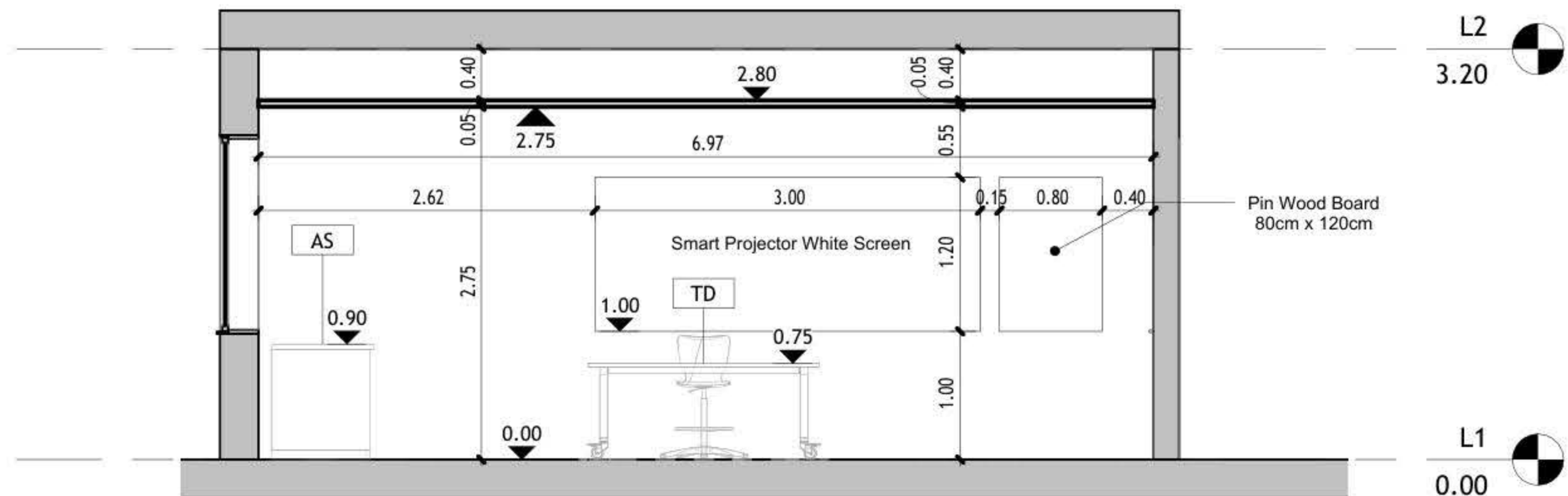
DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A104	00
SCALE:	Sht. of	REV. #
1 : 50		



① Elev. C
1 : 50



② Elev. D
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

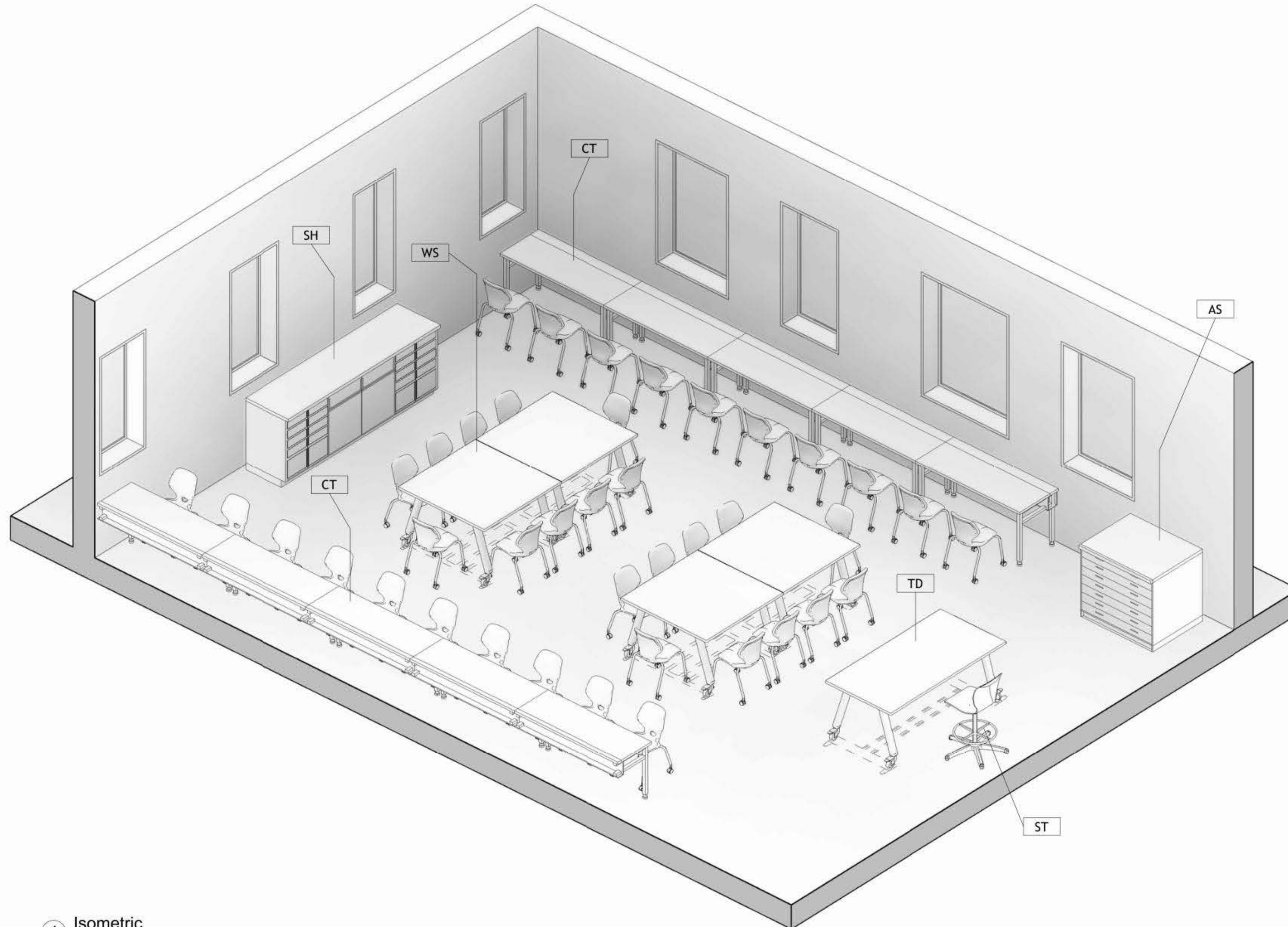
**Eight STEM Labs in Middle and
Northern Governorates**

Musqat Secondary Boys School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A105	00
SCALE:	Sht. of	REV. #
1 : 50		



1 Isometric

DRAWING NOTES:

Contracting Authority:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Musqat Secondary Boys School

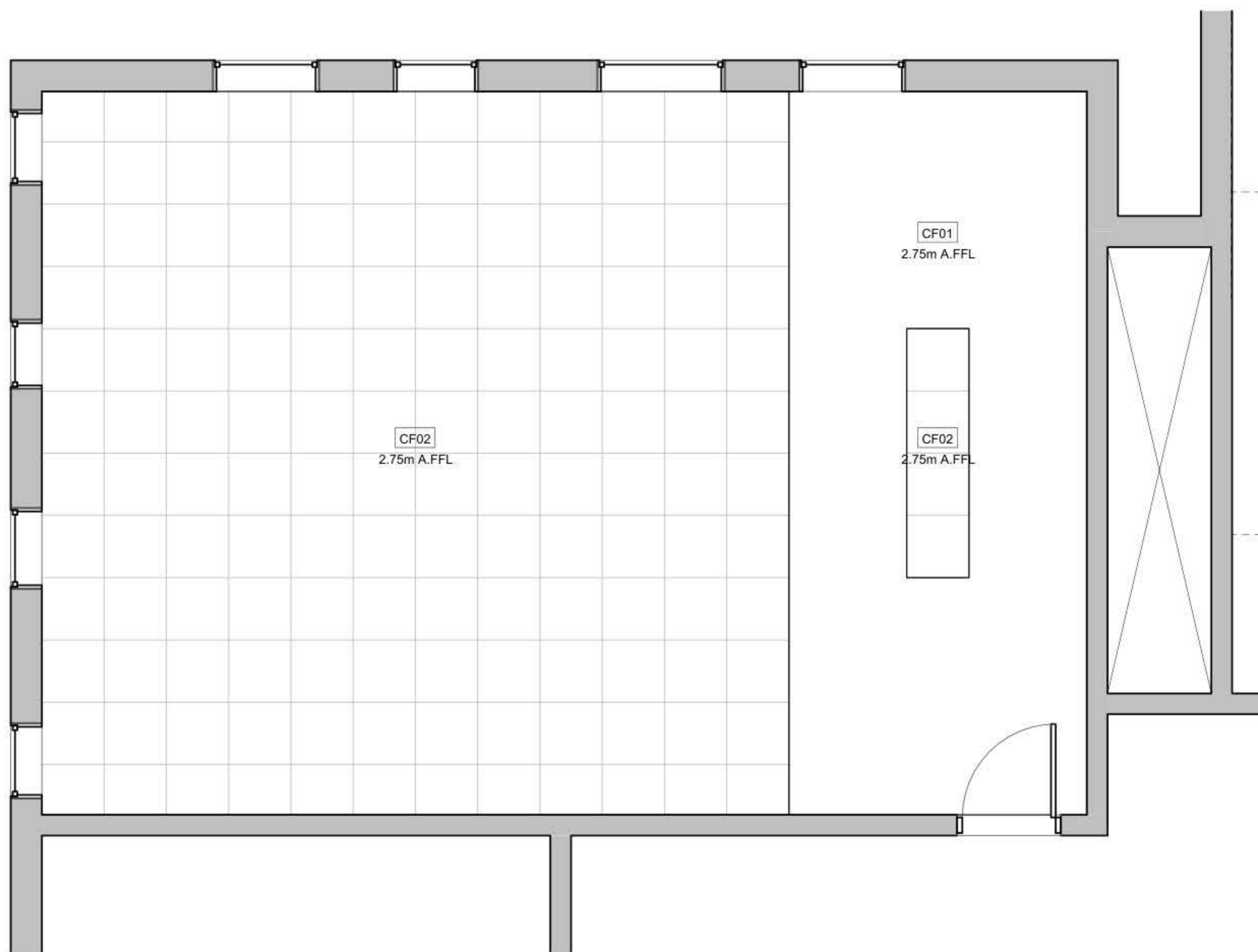
DRAWING TITLE:

Isometric

JOB #	DWG #	BLOCK #
	A106	00
SCALE:	Sht. of	REV. #

CF01	Gypsum Board	19 m ²
CF02	60 * 60 Mineral Fiber Tiles	52 m ²

Grand total: 3

70 m²

① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

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CONSULTANT:

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Tel 022982405
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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE:	11/12/25
-----------------	----------

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Musqat Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	0
SCALE: 1 : 50	Sht. of		REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Orbit
 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

AIZARIYA DESIGN

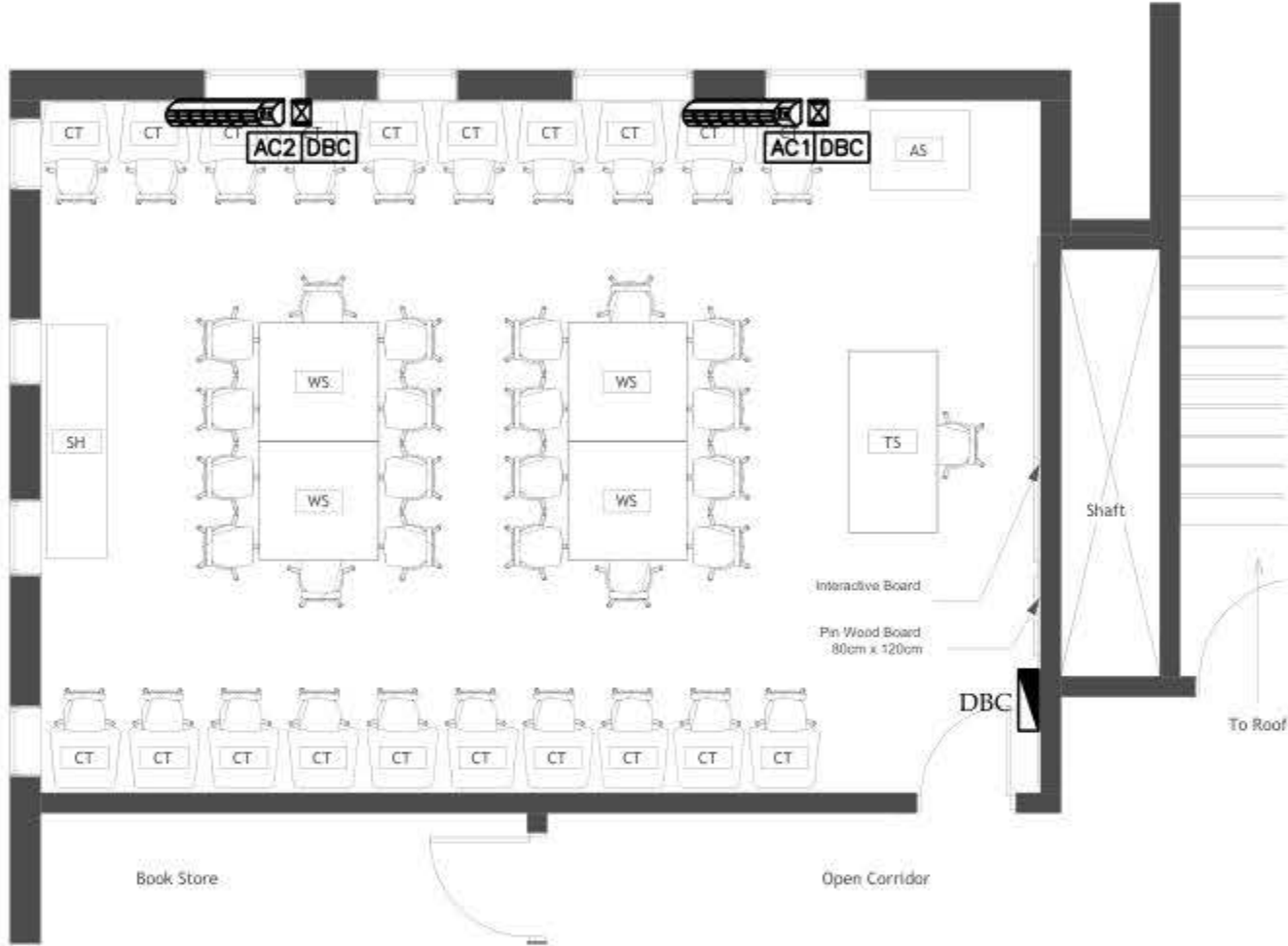
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Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	









AIZARIYA LAE



Electrical Engineering

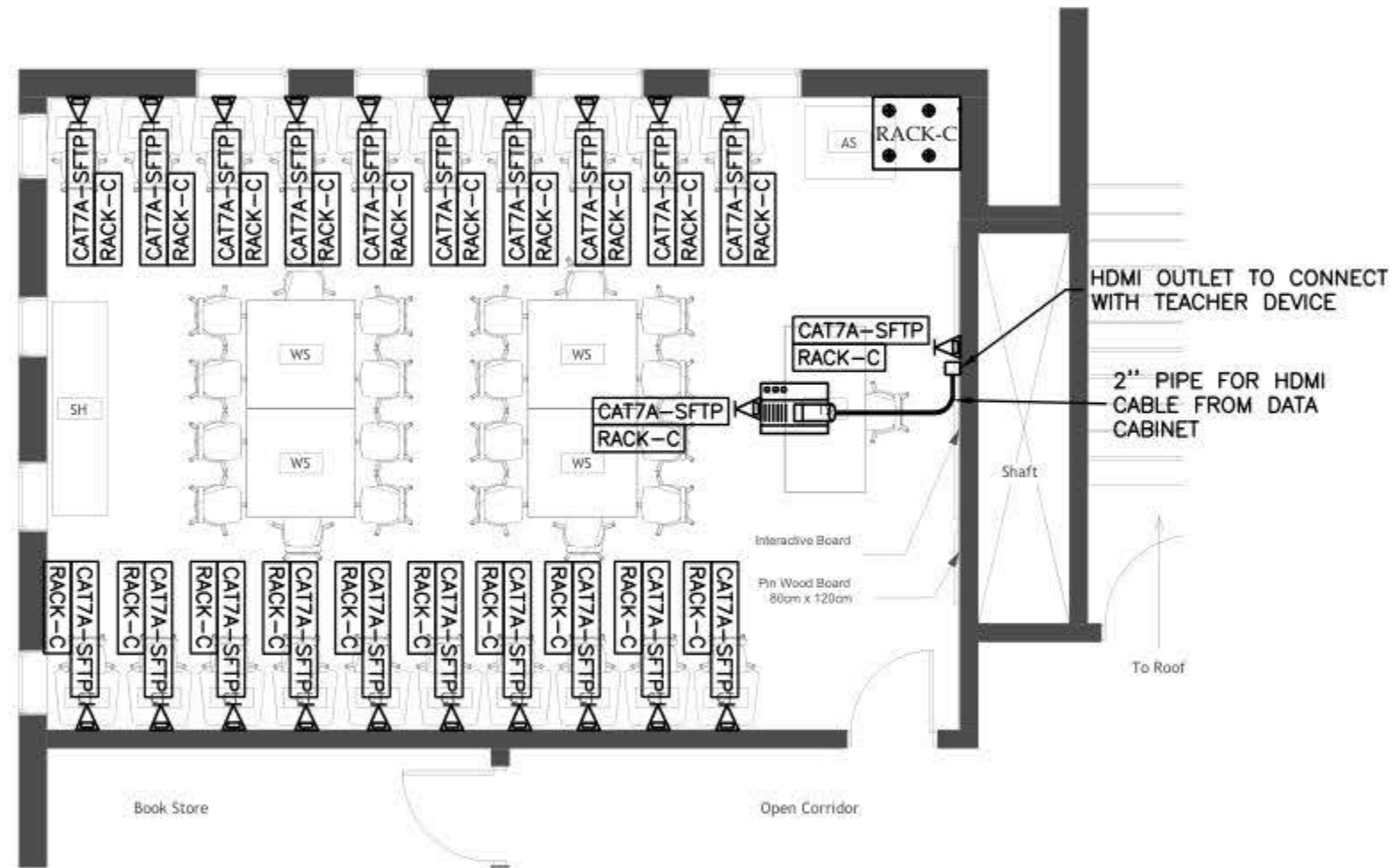
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Approved by: J. F. Harwood, Sr.

AIZARIYA DESIGN

POWER FOR MECH

E 401



NOTES

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering
 Designed by : F. El-Dakh
 Drawn by : F. El-Dakh
 Checked by : F. El-Dakh
 Approved by : F. El-Dakh
AIZARIYA DESIGN

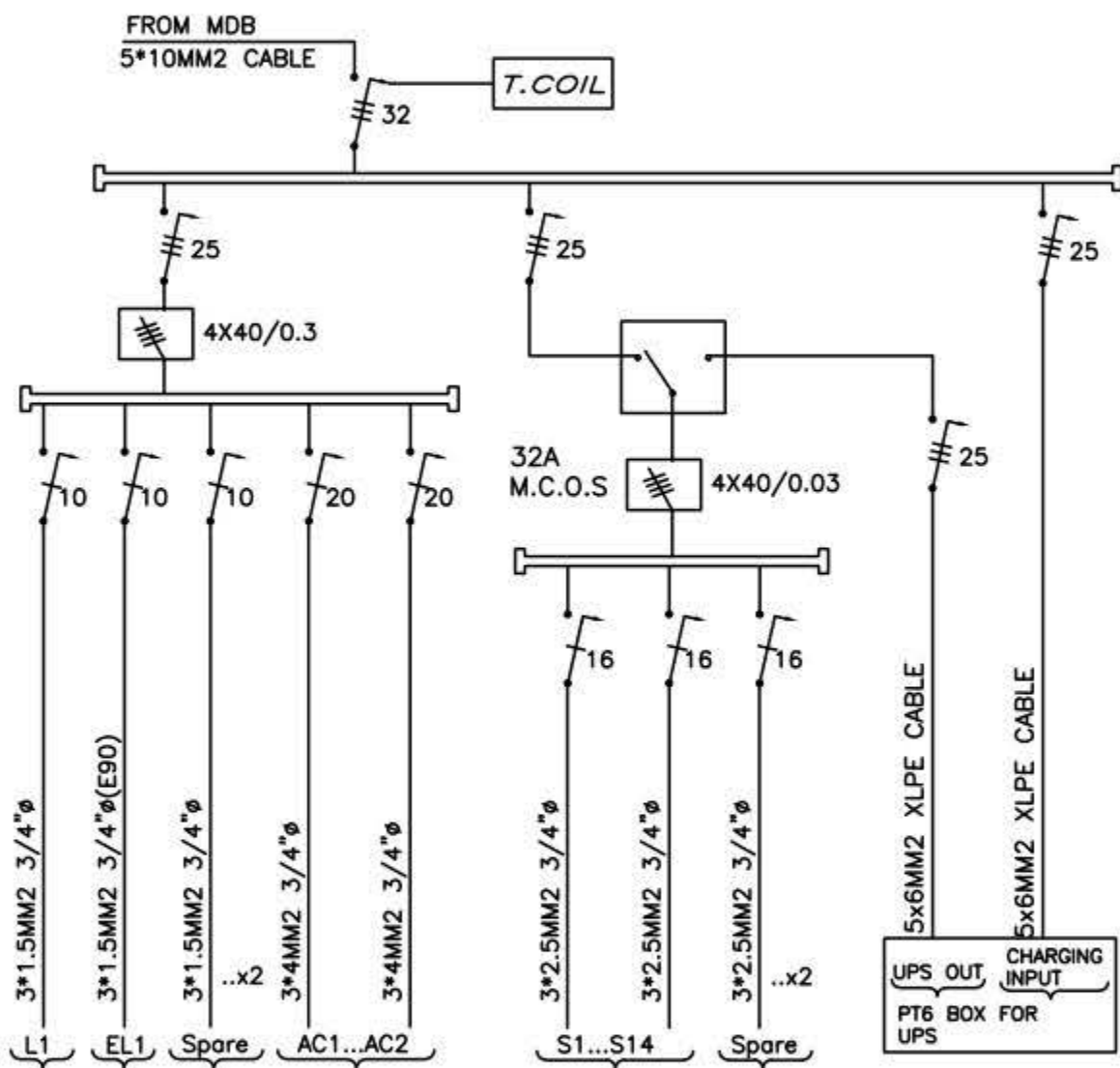
LOW VOLTAGE LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 501



BOARD NAME: DBC



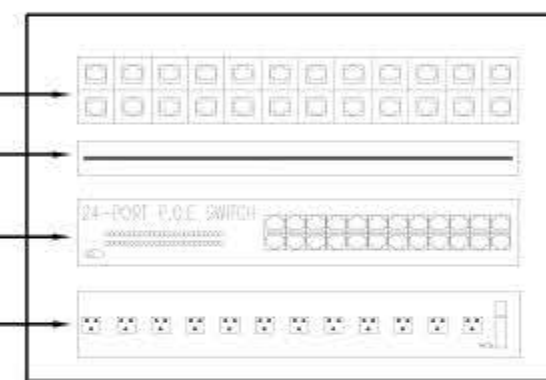
22 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		



Electrical Engineering

Designed by: F. El-Badry

Drawn by: F. El-Badry

Checked by: F. El-Badry

Approved by: F. El-Badry

AIZARIYA DESIGN

POWER DIAGRAMS

Date: 01/10/2025

Scale: 1/100

City: RAMALLAH

Sheet: 2/2008

E 701

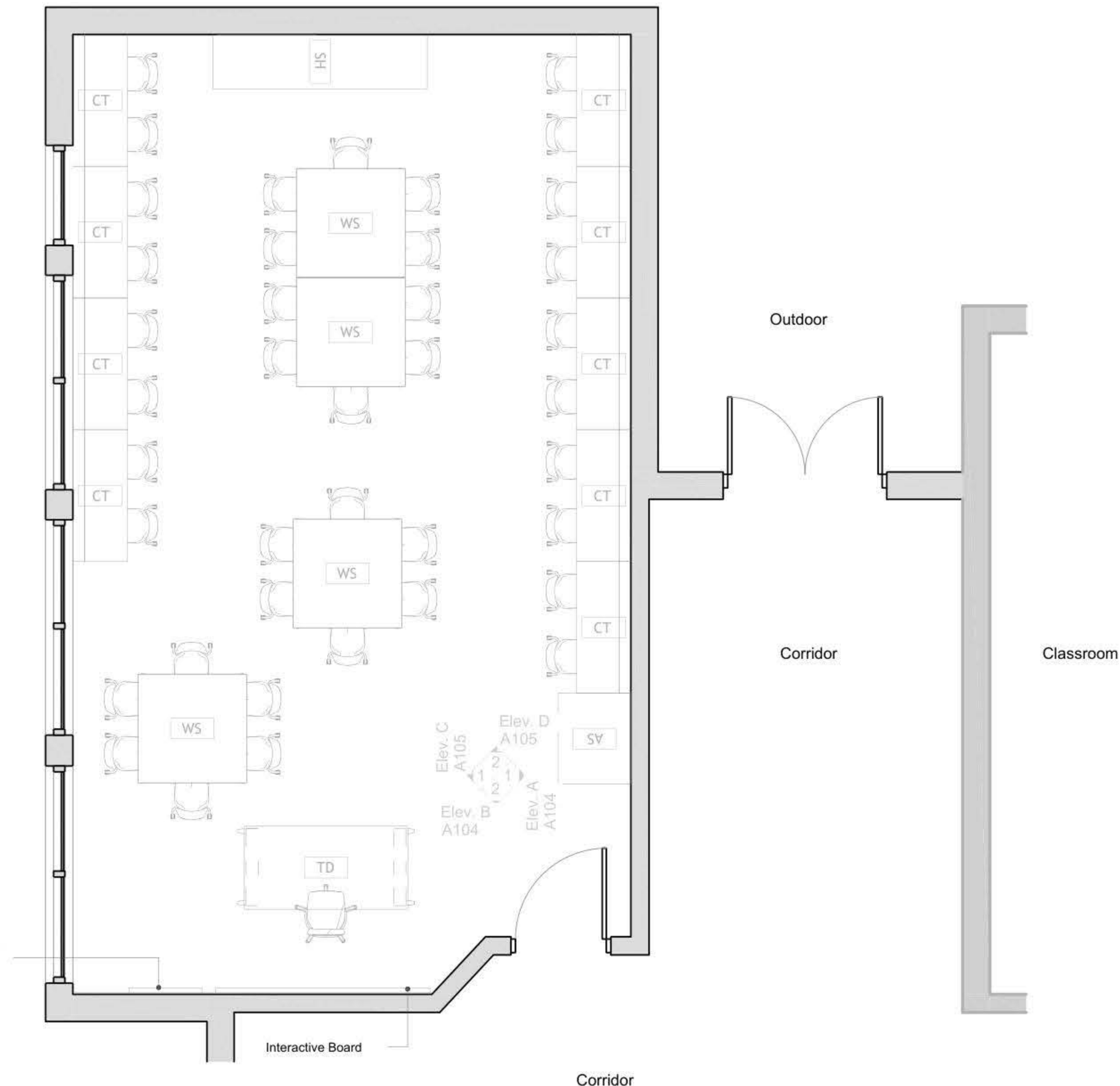
Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Al-Nweaimeh Secondary Boys School



Furniture Schedule		
ID	Description	Count
	Student Chair	40
AS	Arts Storage (A1)	1
CT	Computer Table	9
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	2
WS	Work Station	4

Pin Wood Board
80cm x 120cm



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	SHEET	REV.
1 : 50	of	



DRAWING NOTES:

Contracting Authority:

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Enabel 

CONSULTANT:

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email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE:	9/15/2025
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PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

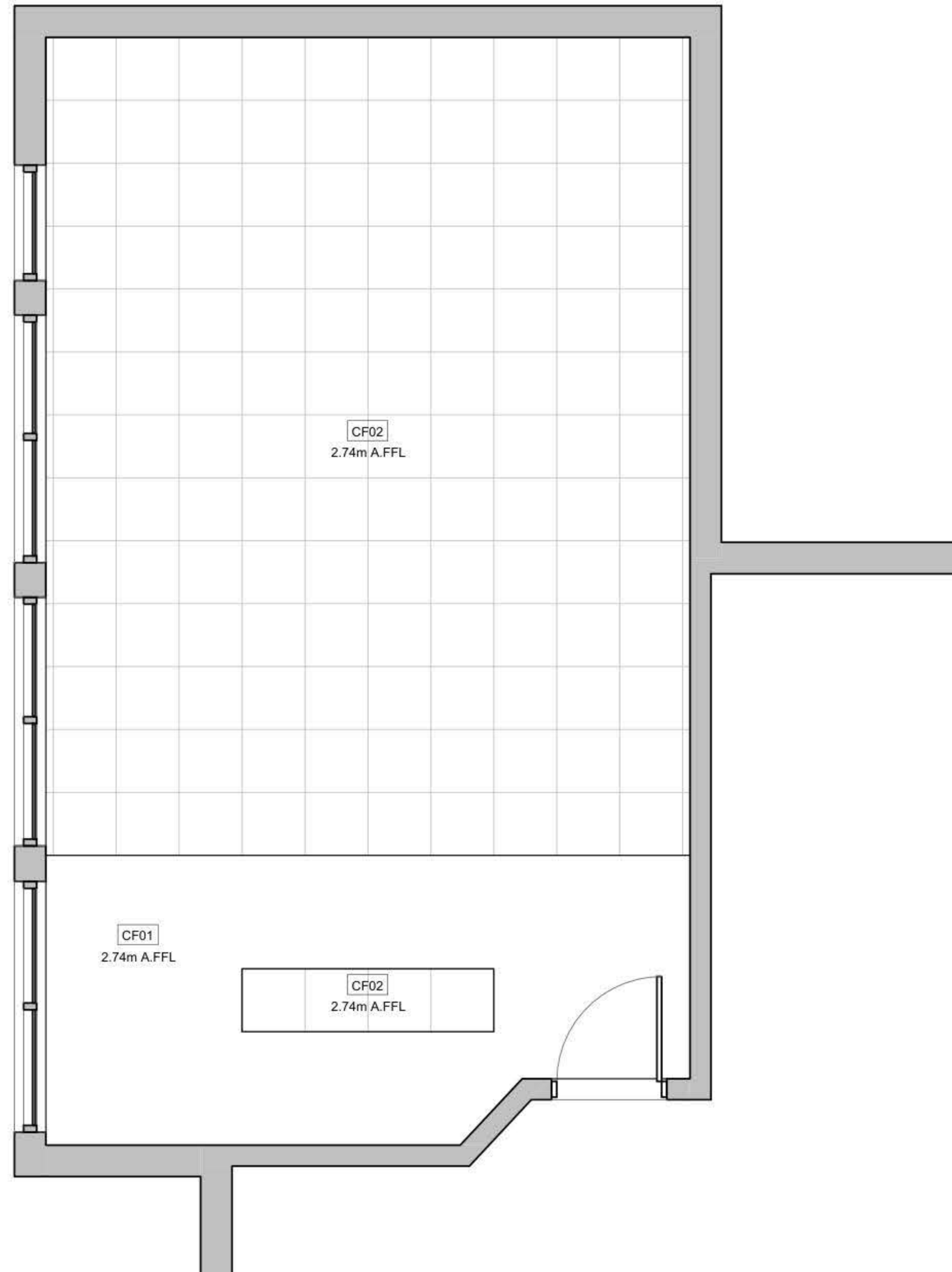
Internal Elevations

JOB #	DWG # A104	BLOCK # 0
SCALE: 1 : 50	Sht. of	REV. #

CF01	Gypsum Board	14 m ²
CF02	60 * 60 Mineral Fiber Tiles	49 m ²

Grand total: 3

64 m²



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
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 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

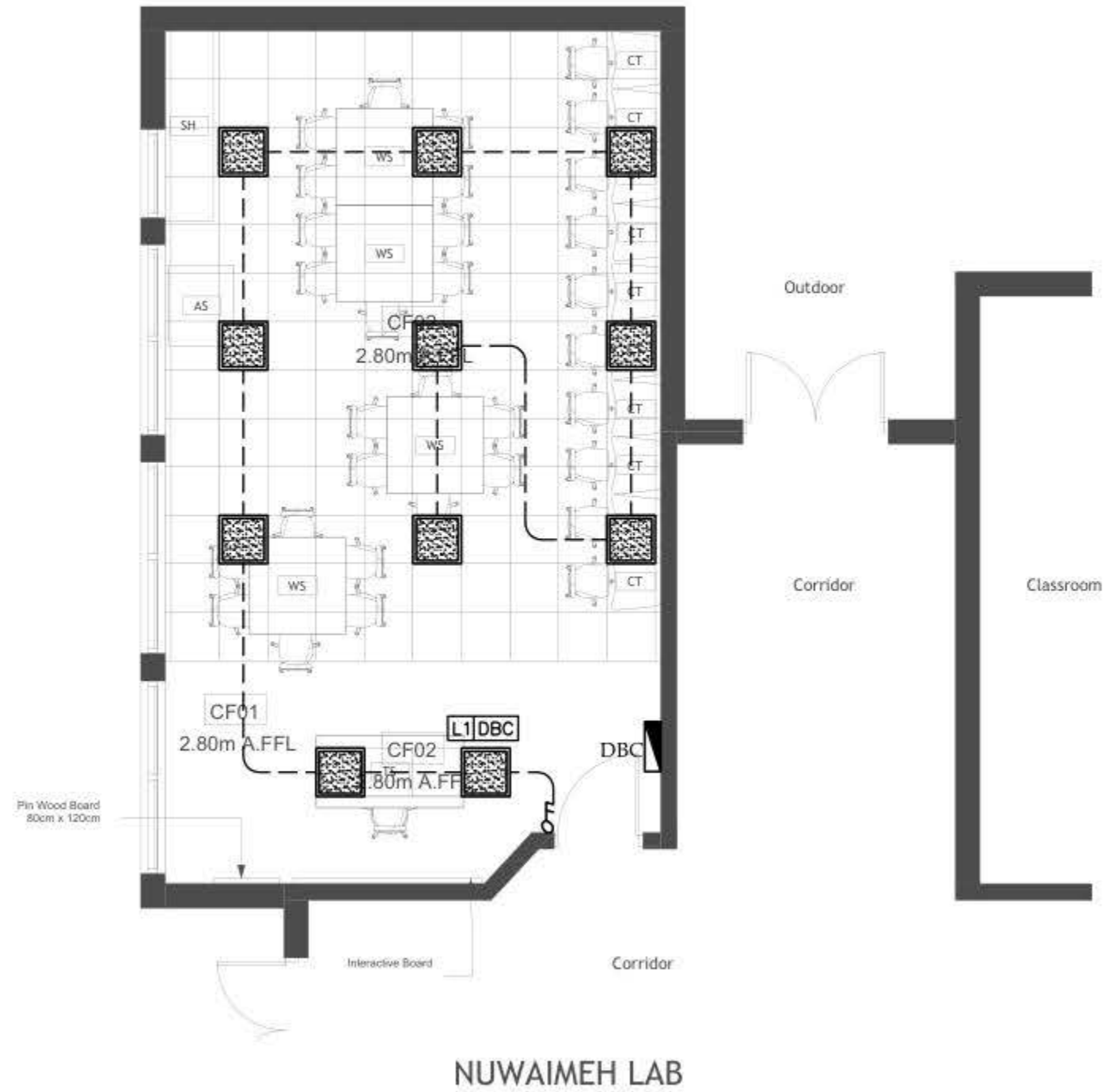
Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

NUAIMEH DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



NO	DATE	DESCRIPTION
1		
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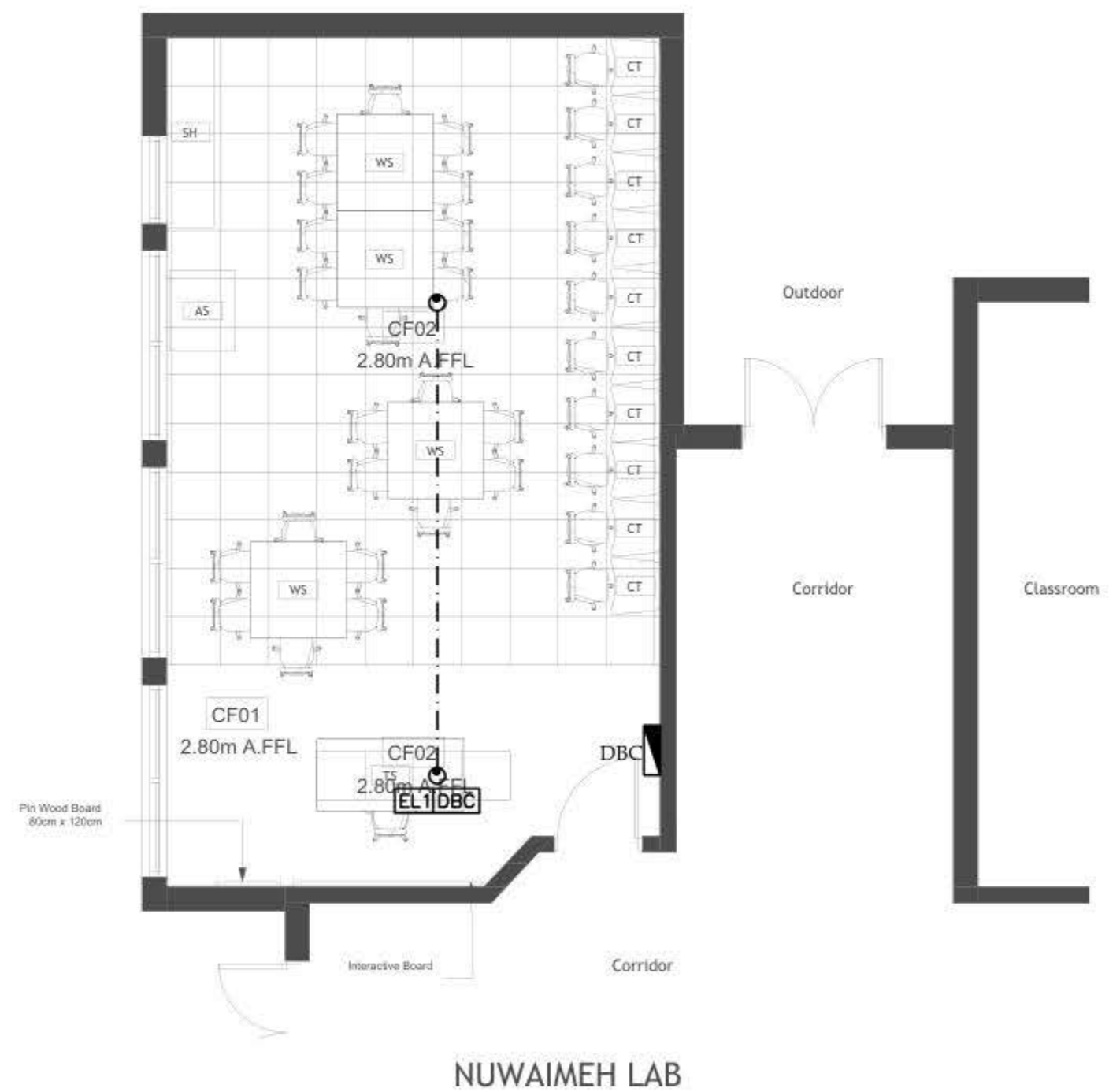


Electrical Engineering
Designed by: F. L. D. 001 001 001
Drawn by: 001
Checked by: F. L. D. 001 001 001
Approved by: F. L. D. 001 001 001
NUWAIMEH DESIGN

LIGHTING LAYOUT

Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 101



NUWAIMEH LAB



Electrical Engineering

Designed by: F. C. B. 001 001 001

Drawn by: _____
Checked by: E.E. Dept. 443-345

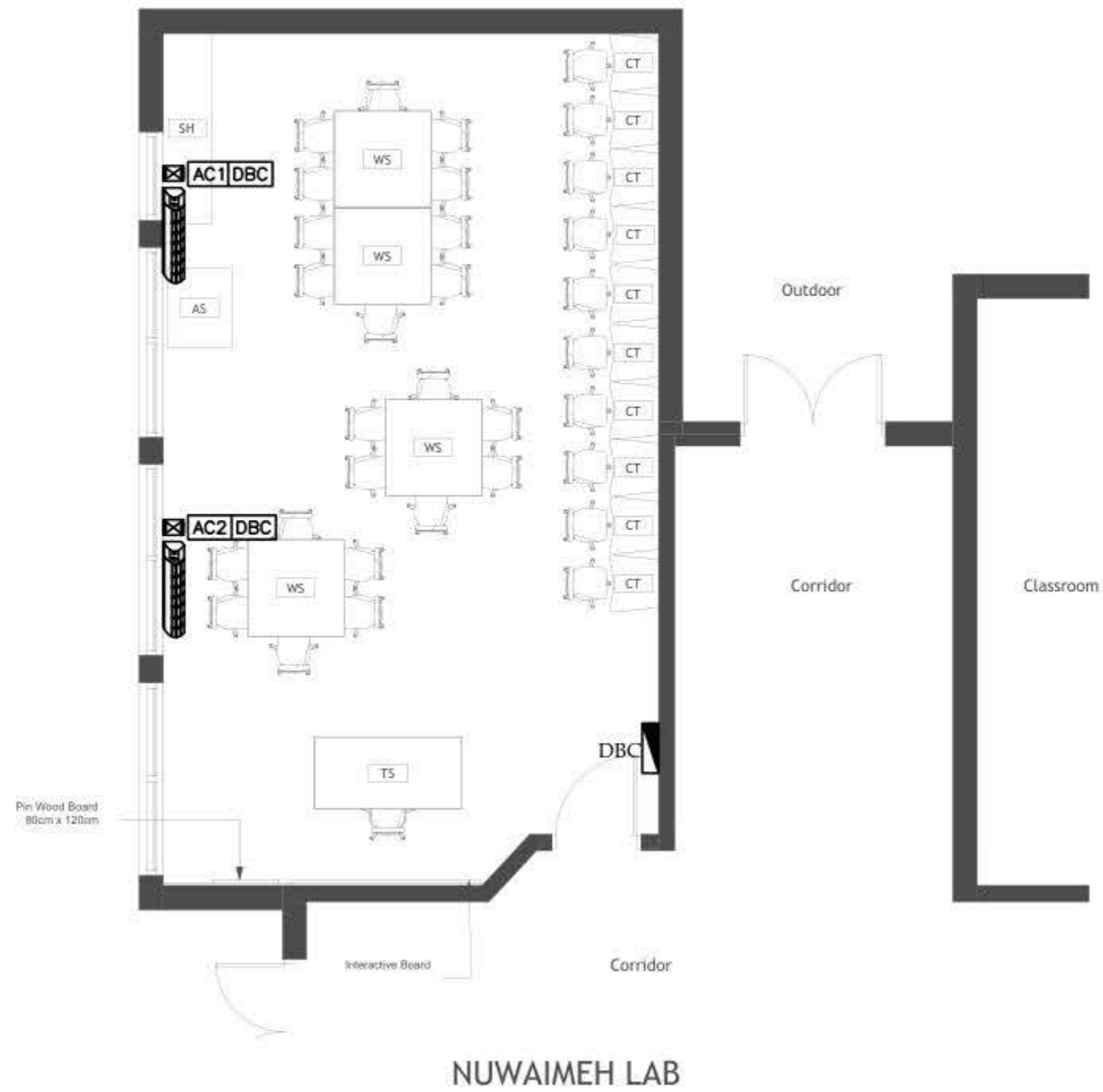
Approved by: J.E. Hurdles, Sr.

NUAIMEH DESIGN

EMERGENCY LIGHTING LAYOUT

E 201

NOTES



NUWAIMEH LAB

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

Orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. L. B. 004 MB 100
 Drawn by: 100
 Checked by: F. L. B. 004 MB 100
 Approved by: F. L. B. 004 MB 100
NUWAIMEH DESIGN

POWER FOR MECH

Date:	001/2005
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 401

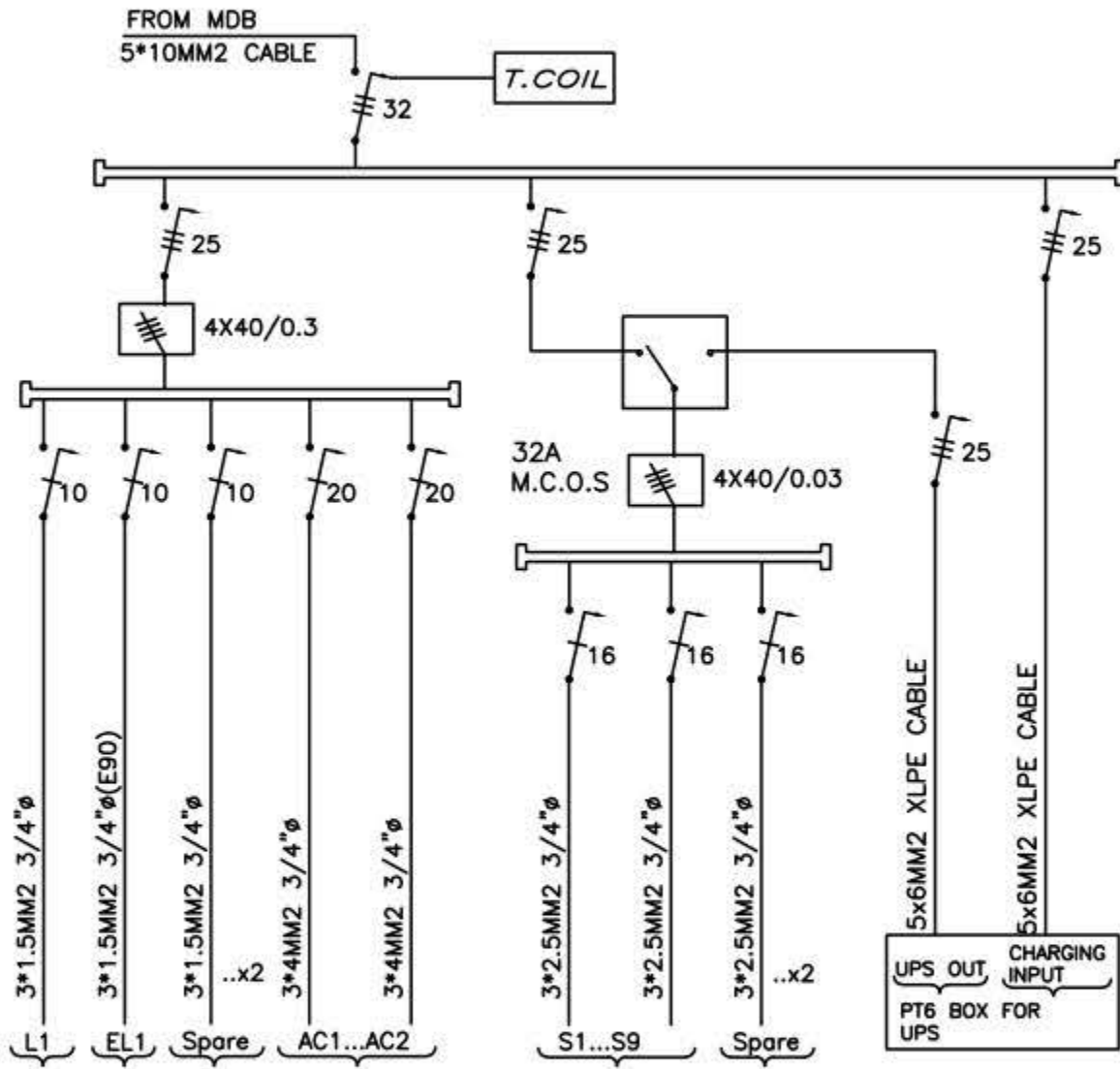
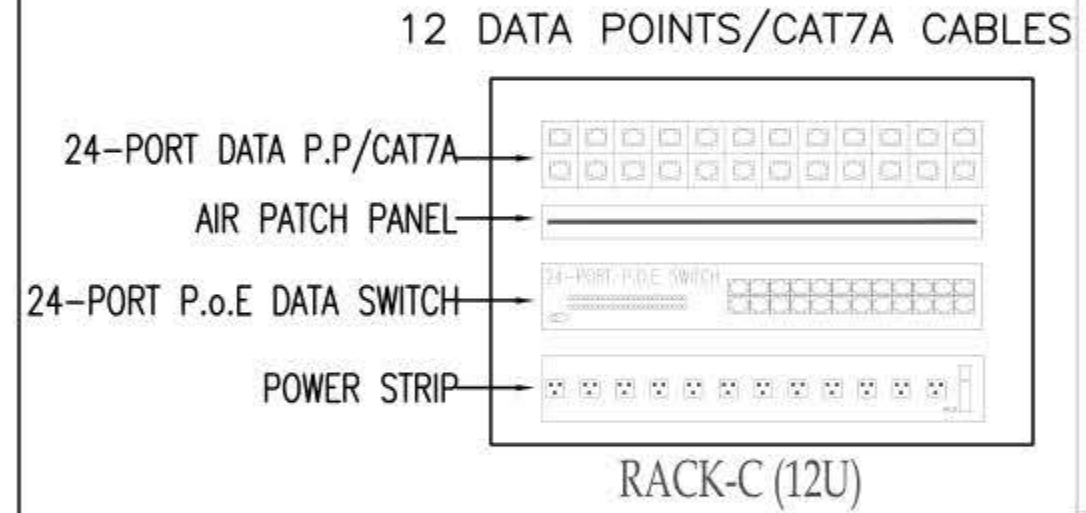
NUWAIMEH LAB



Ramallah
Tel/Fax 02-2967876
E-Mail: info@orbit.ps
Website: www.orbit.ps
Orbit Consultants Engineers

E 601

BOARD NAME: DBC



NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering
 Designed by: F. El-Badry
 Drawn by: F. El-Badry
 Checked by: F. El-Badry
 Approved by: F. El-Badry
 NUAIMEH DESIGN

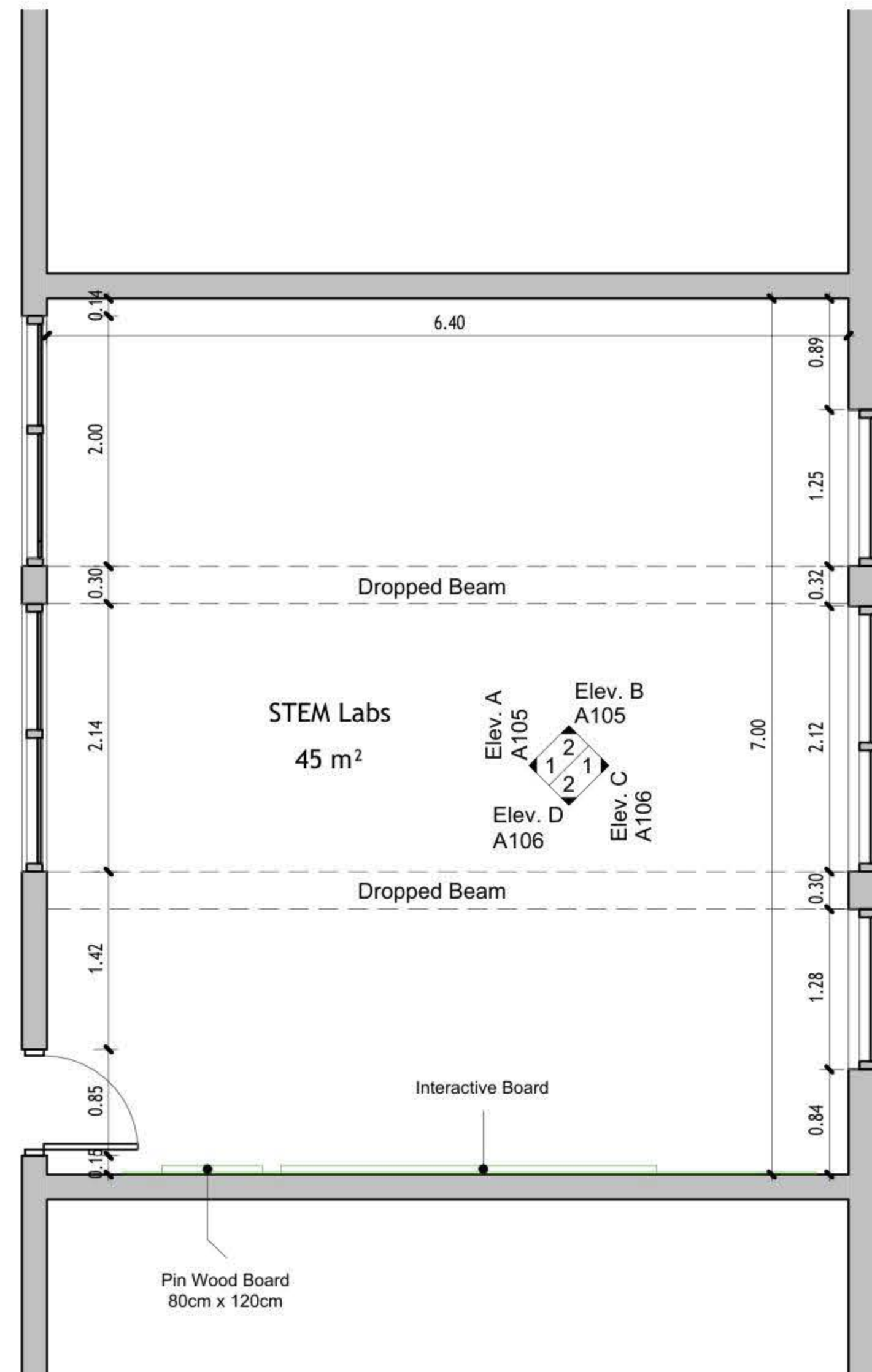
POWER DIAGRAMS

Date: 01/10/2025
 Scale: 1/100
 City: RAMALLAH
 Sheet: 02/08
E 701

Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Al-Auja Secondary Girls School





① Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Architects and Engineers

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

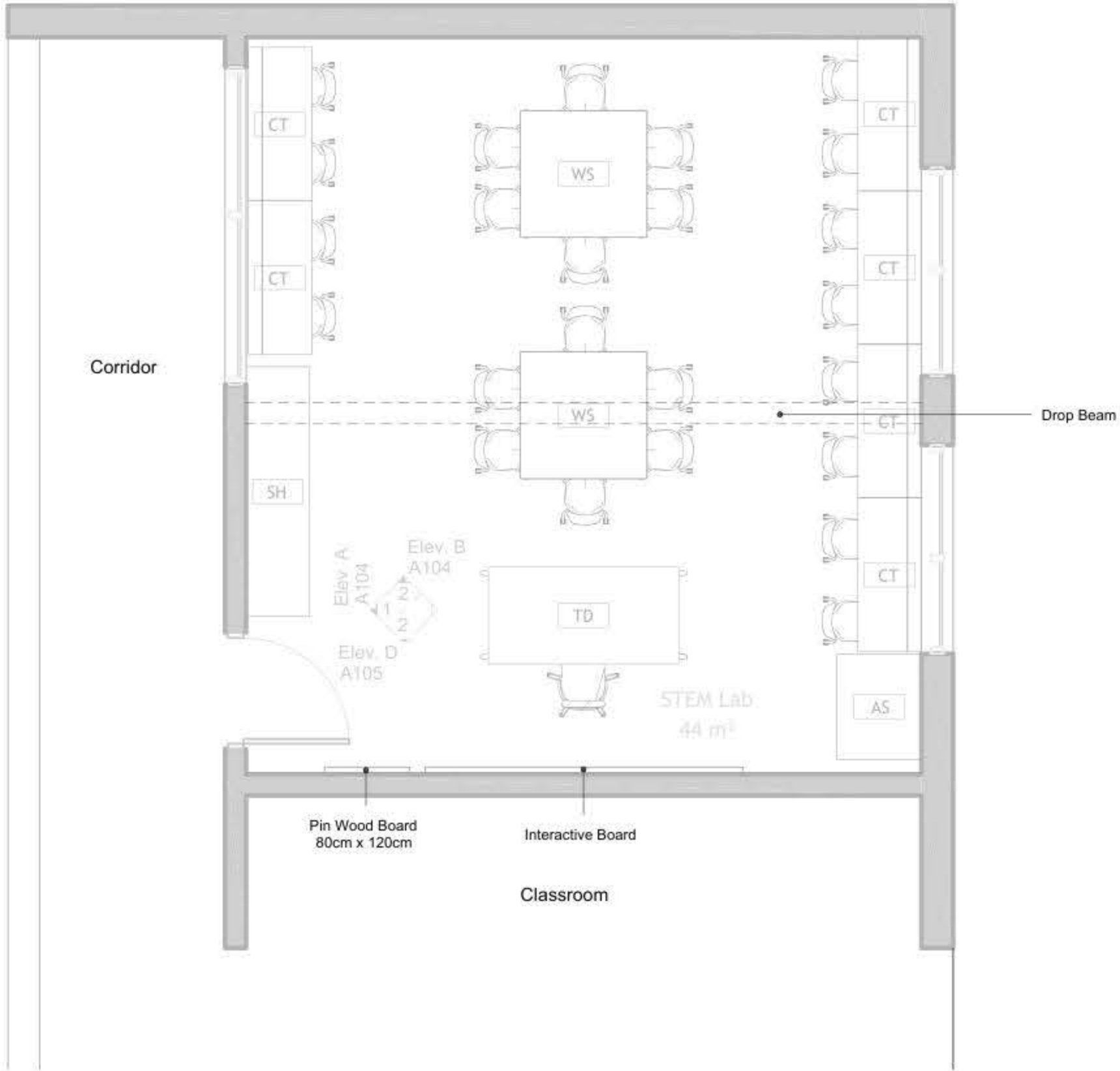
Al-Auja Secondary Girls School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG # A102	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV, #

Furniture Schedule		
ID	Description	Count
	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	6
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



① Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 10/12/25

PROJECT:

Project Status

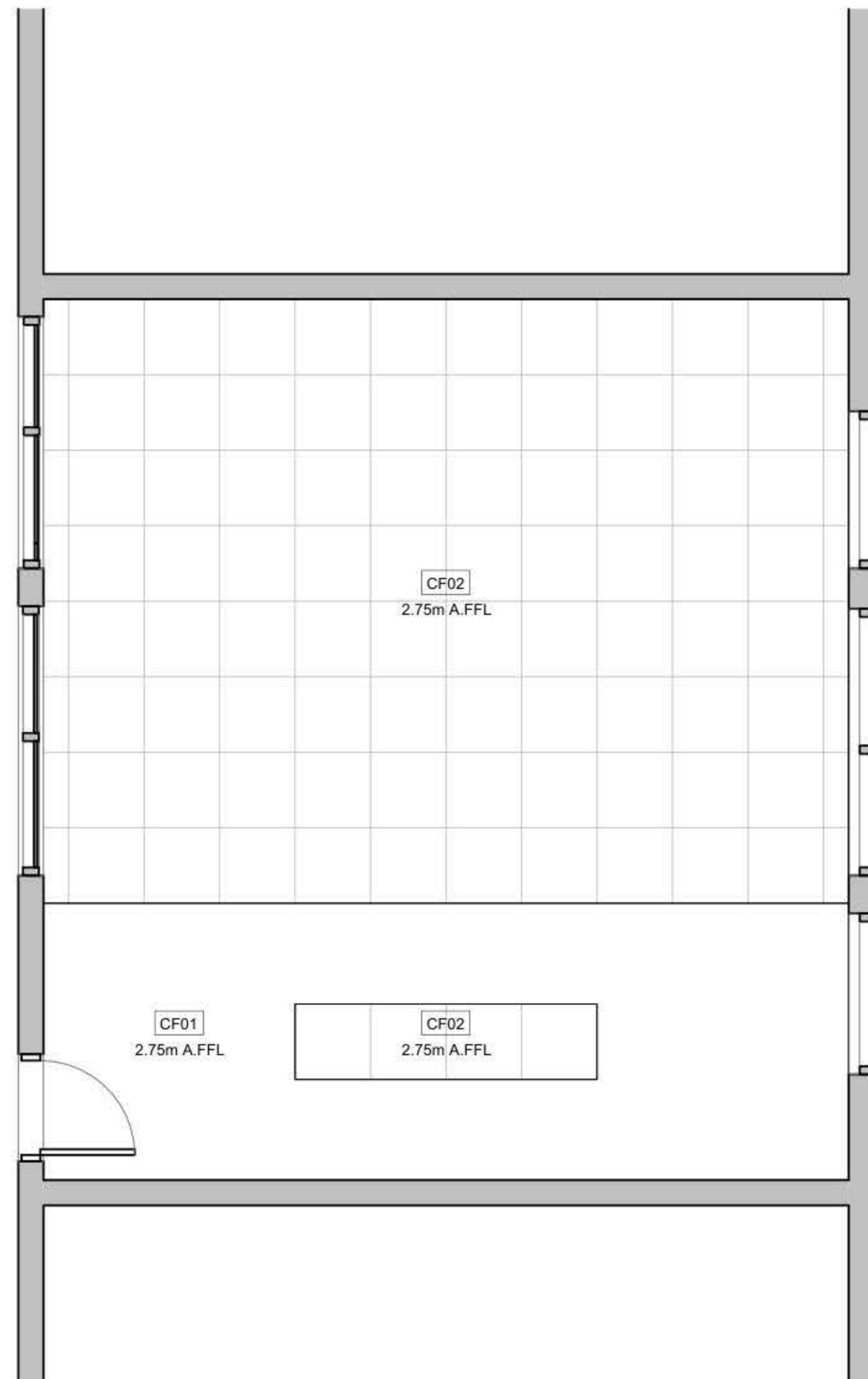
DRAWING TITLE:

Furniture Plan

JOB #	DWG # A102	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV. #

CF01	Gypsum Board	13 m ²
CF02	60 * 60 Mineral Fiber Tiles	32 m ²

Grand total: 3	45 m ²
----------------	-------------------



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

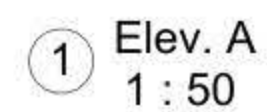
Eight STEM Labs in Middle and Northern Governorates

Al-Auja Secondary Girls School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG # A104	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV. #



JOB #	DWG A105	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV, #

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
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Orbit
 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

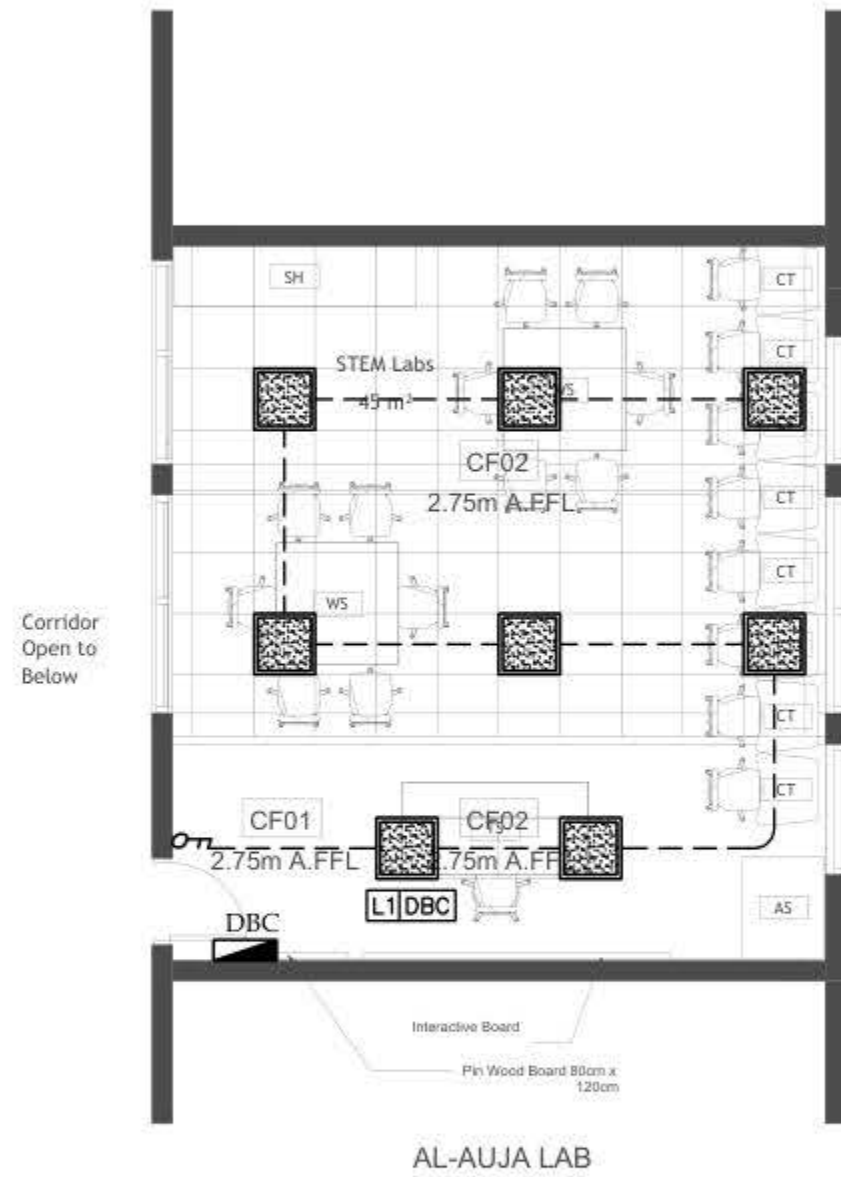
Prepared by: E.E. GHANI ABD. ALWAJID
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

AL-AUJA DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



NO	DATE	DESCRIPTION
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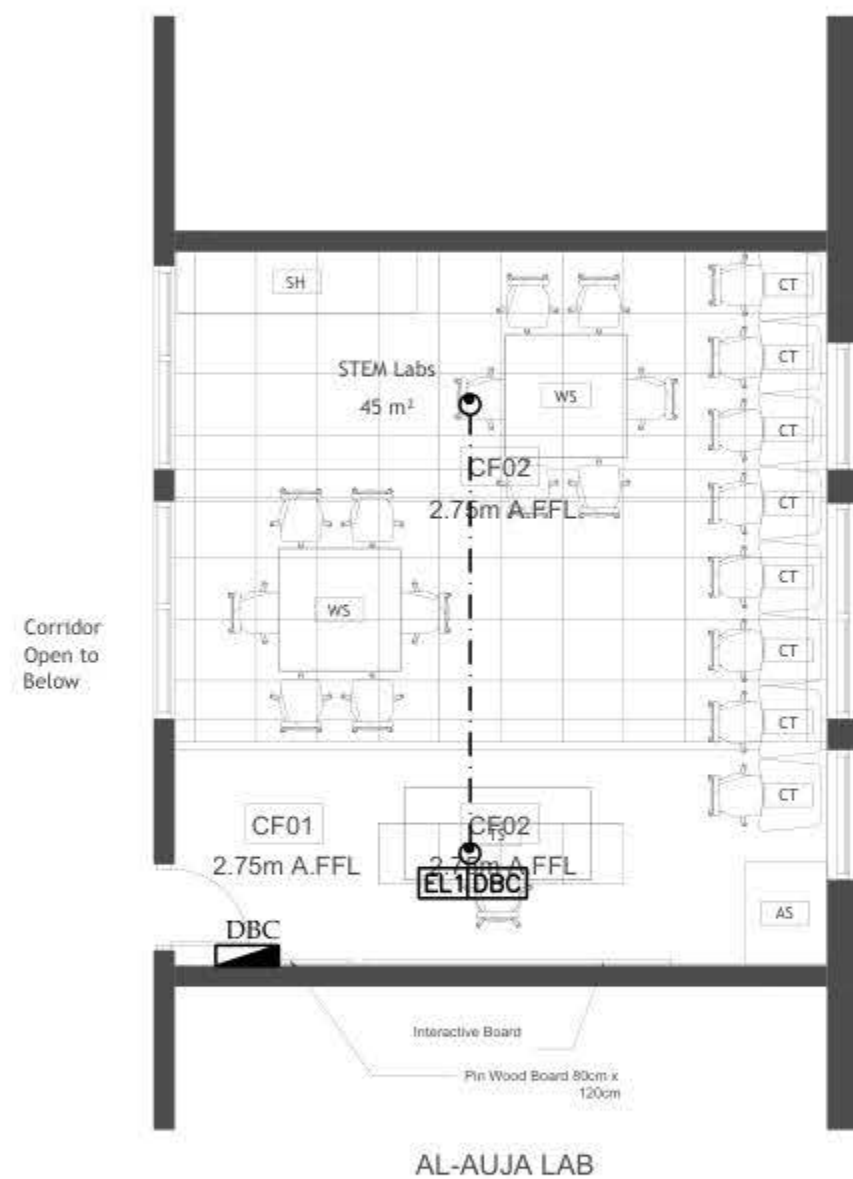
Electrical Engineering
 Designed by: F. L. D. 001 001 001
 Drawn by: F. L. D. 001 001 001
 Checked by: F. L. D. 001 001 001
 Approved by: F. L. D. 001 001 001

AL-AUJA DESIGN

LIGHTING LAYOUT

Date:	001 001 001
Scale:	1/100
City:	RAMALLAH
Sheet:	001 001 001

E 101



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

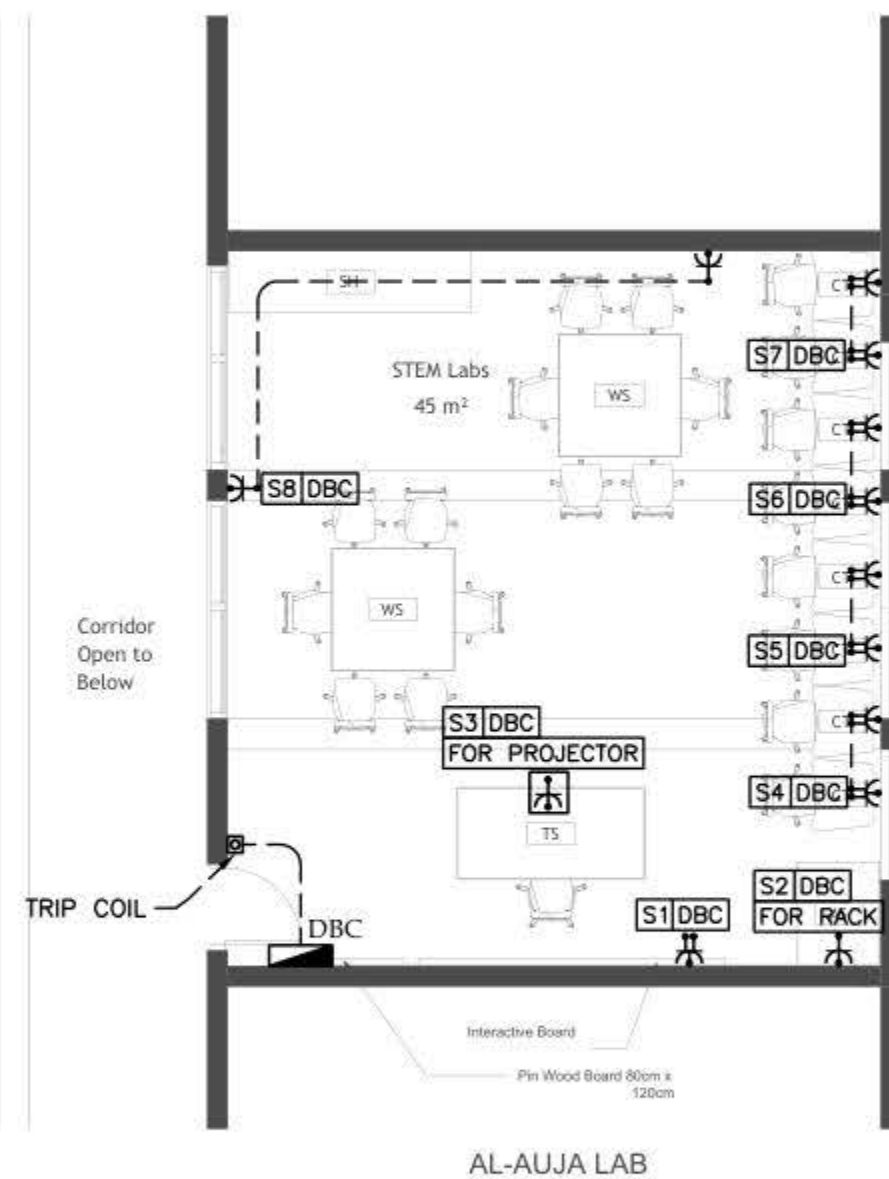
Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Supt.

AL-AUJA DESIGN

EMERGENCY LIGHTING LAYOUT

E 201



AL-AUJA LAB



Electrical Engineering

Downloaded by [F.C. (2014) 0001-0000]

Drawn by	_____
Checked by	EE Dept. Admin.

Approved by: J. E. Hernandez, Sr.

AL-AUJA DESIGN

POWER LAYOUT

POWER LITIGATION

Date: JUL 2005

DATE	1/1/00	ES
CH	BAMALAH	

Chl	29.4% LAH
Seal	34.0%

E 301

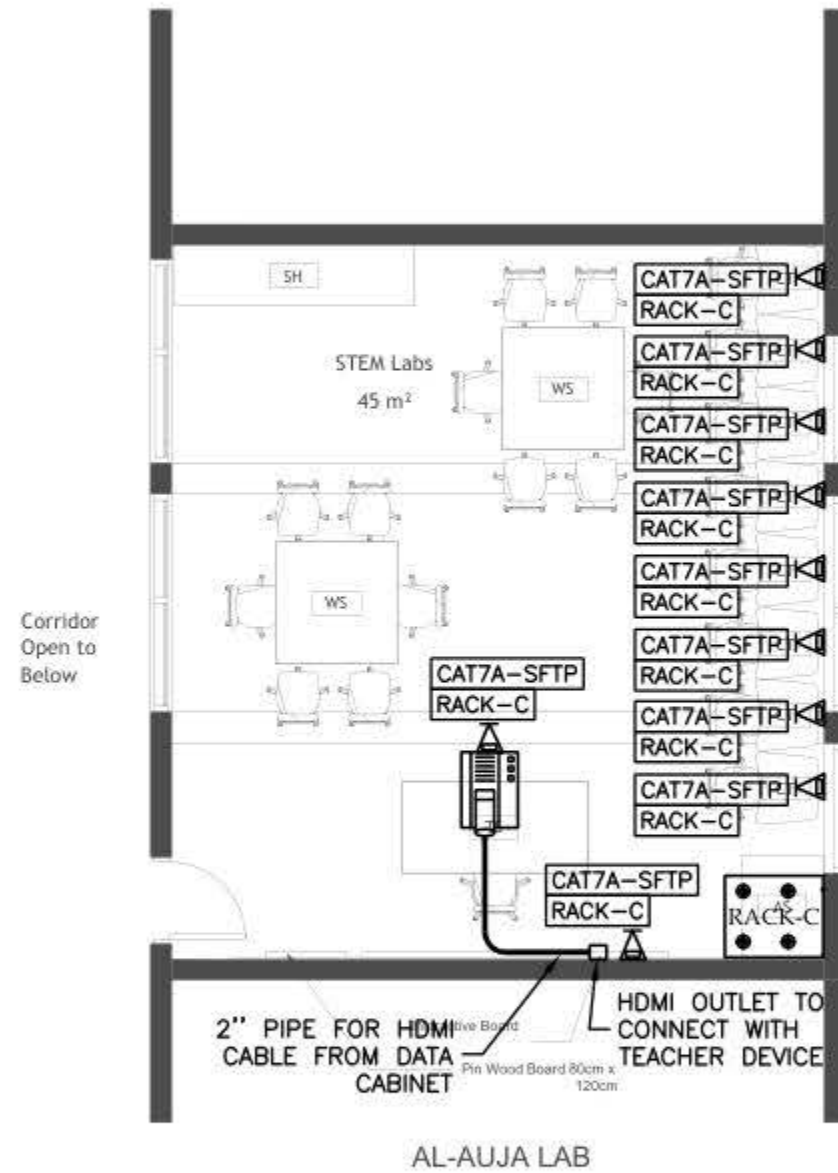


Orbit Consultant Engineers
 Ramallah
 Tel/Fax 02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps

AL-AUJA DESIGN



NOTES



AL-AUJA LAB

NO	DATE	DESCRIPTION
1		
2		
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5		
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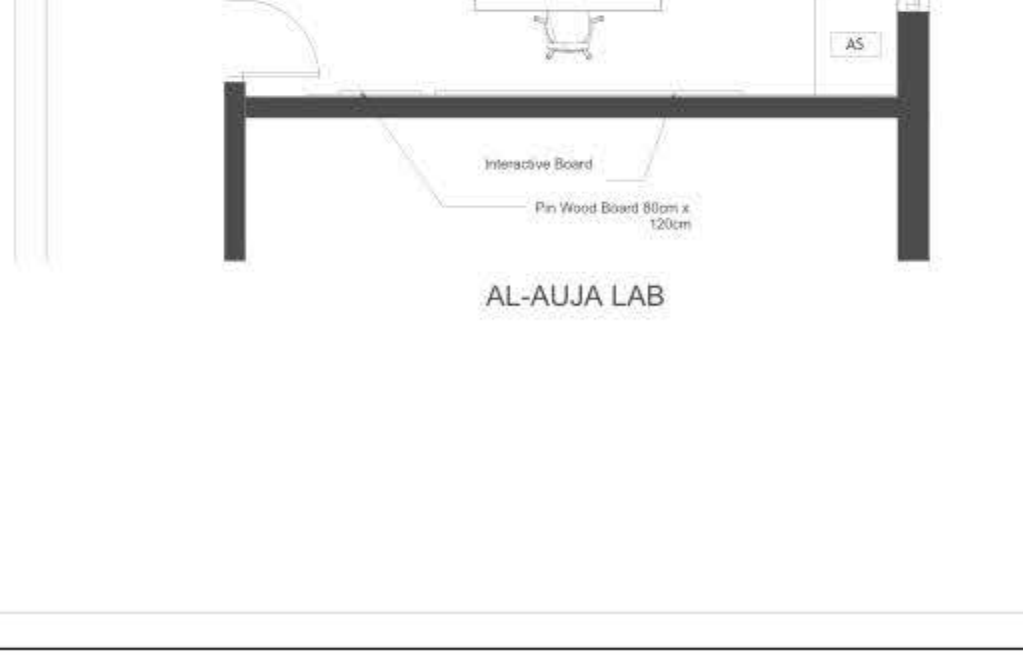
orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. E. AL-AUJA
 Drawn by: F. E. AL-AUJA
 Checked by: F. E. AL-AUJA
 Approved by: F. E. AL-AUJA

AL-AUJA DESIGN

LOW VOLTAGE LAYOUT

Date:	01/11/2025	E 501
Scale:	1/100	
City:	RAMALLAH	
Sheet:	24/08	



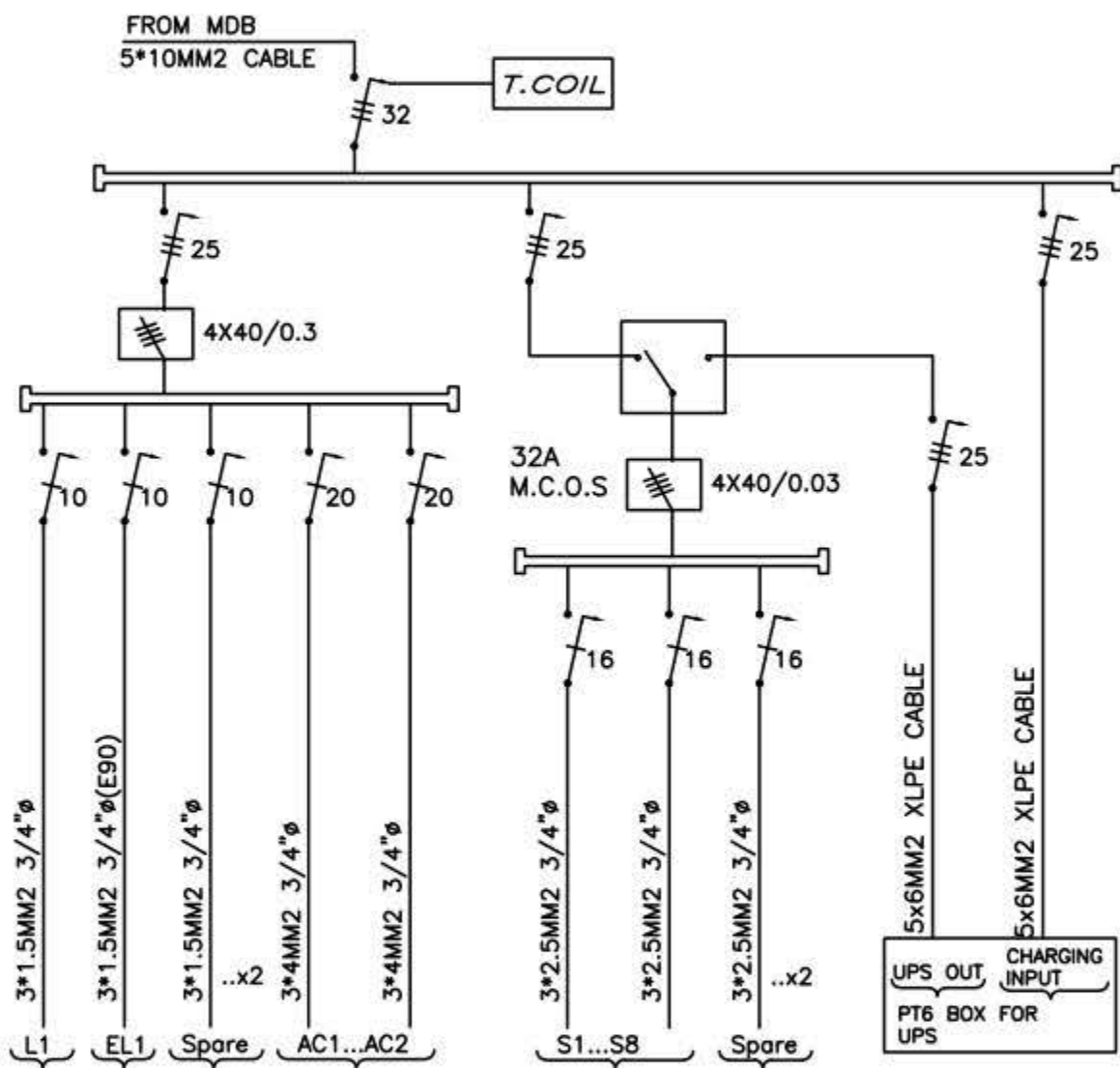
Electrical Engineering

FIRE ALARM LAYOUT

Date:	06/1/2005	E 601
Lab#:	17100	
City:	BAMALAH	
Ref:	GEORGE	

E 601

BOARD NAME: DBC



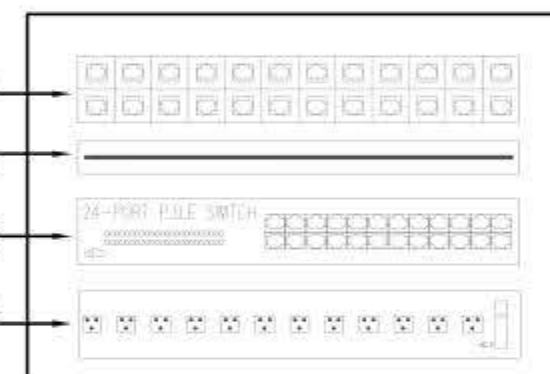
10 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
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6		



Electrical Engineering

Designed by: F. J. B. 001 001 001

Drawn by: 001

Checked by: F. J. B. 001 001 001

Approved by: F. J. B. 001 001 001

AL-AJJA DESIGN

POWER DIAGRAMS

Date: 001/001/001

Scale: 1/100

City: RAMALLAH

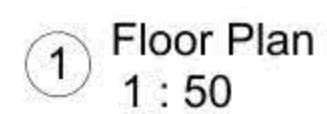
Sheet: 001/001

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

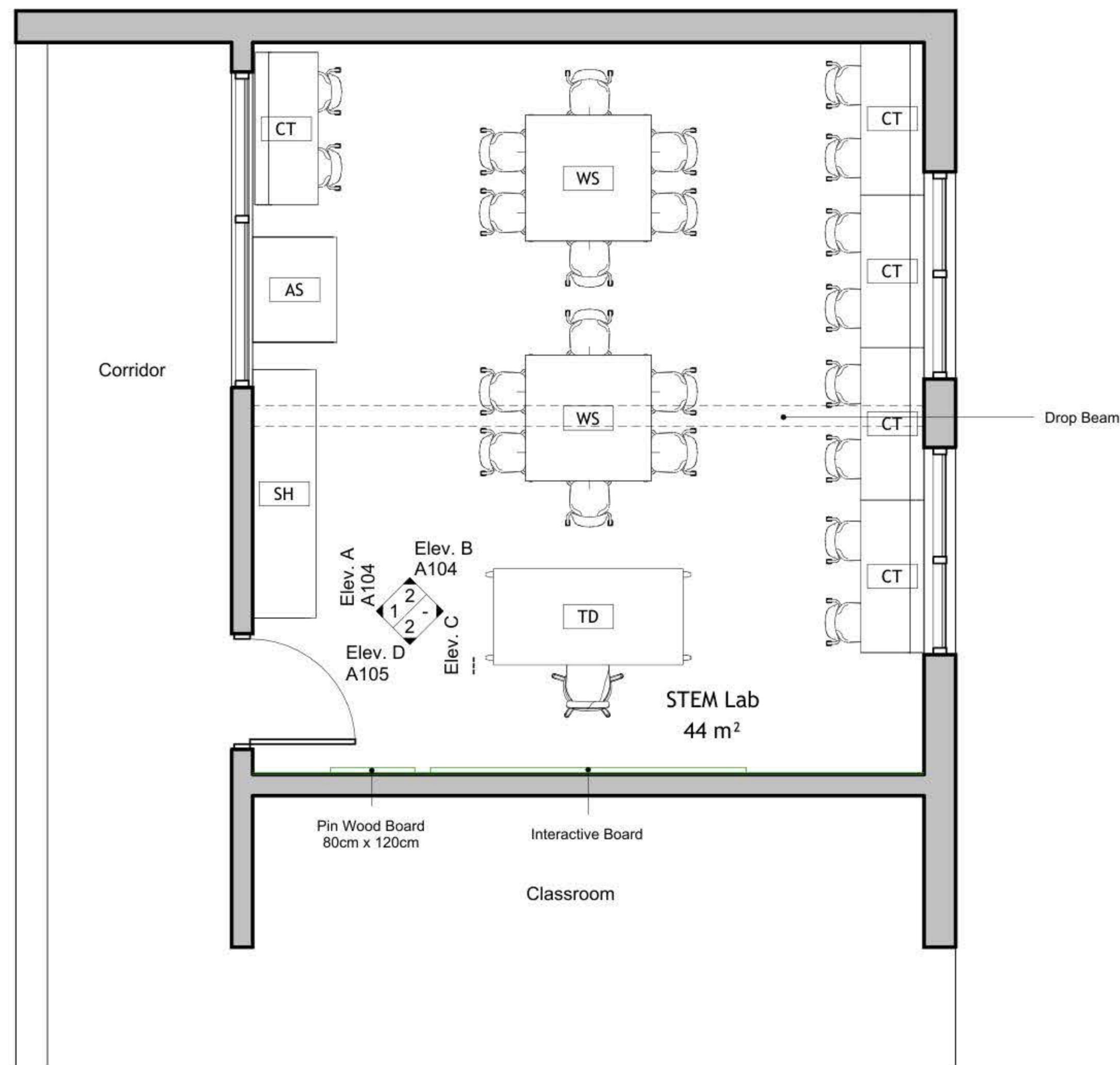
Fasayel Secondary Mixed School





JOB #	DWG #	A101	BLOCK #	0
SCALE: 1 : 50	Sht.	of	REV. #	1

Furniture Schedule		
ID	Description	Count
	Student Chair	22
AS	Arts Storage (A1)	1
CT	Computer Table	5
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 10/12/25

PROJECT:

**STEM Labs Design-
As-Built**

Enabel Secondary Mixed School

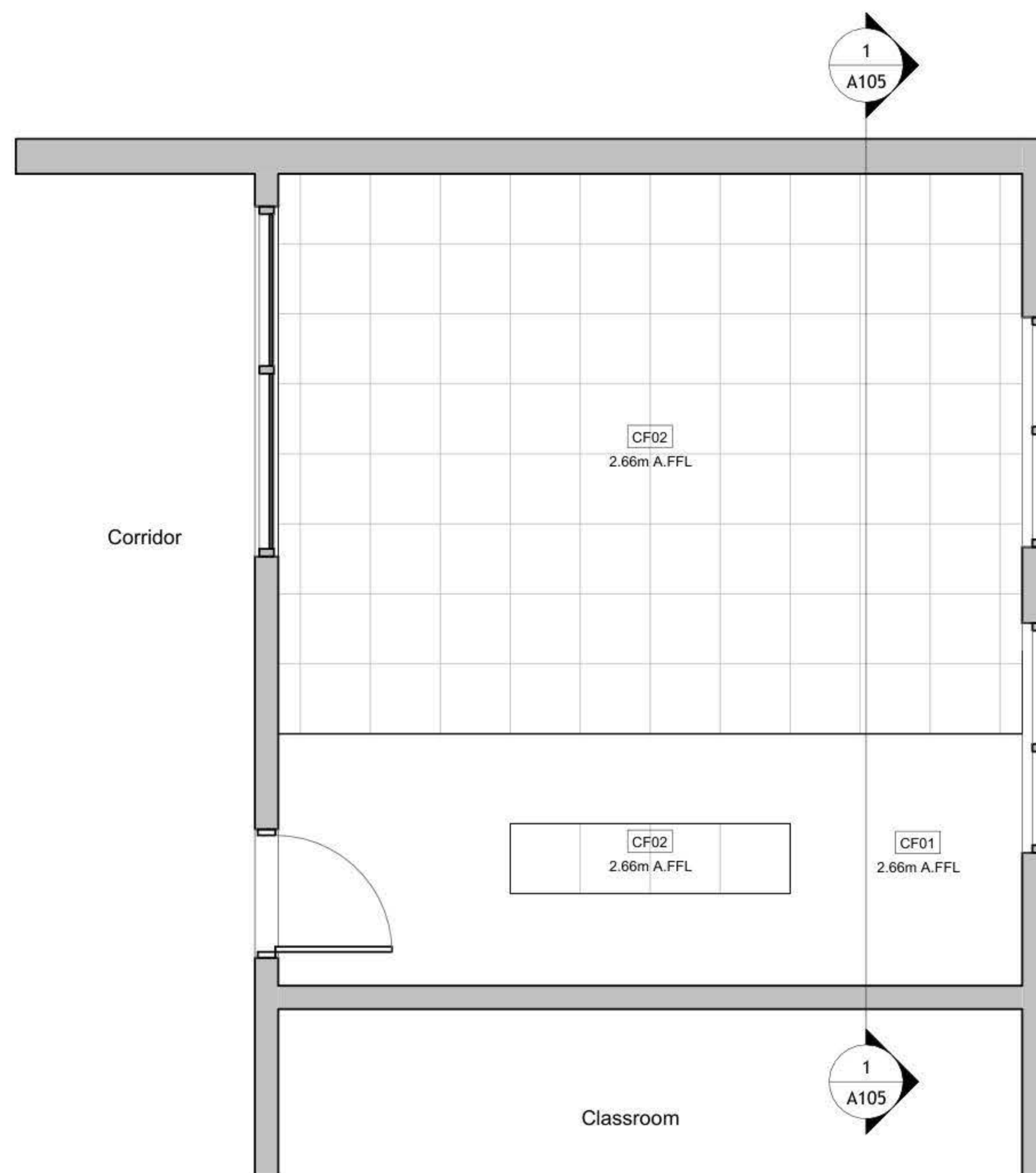
Project Status

DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV. #
1 : 50		

Ceiling Schedule		
Type Mark	Description	Area
CF01	Gypsum Board	12 m ²
CF02	60 * 60 Mineral Fiber Tiles	32 m ²
Grand total: 3		44 m ²



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

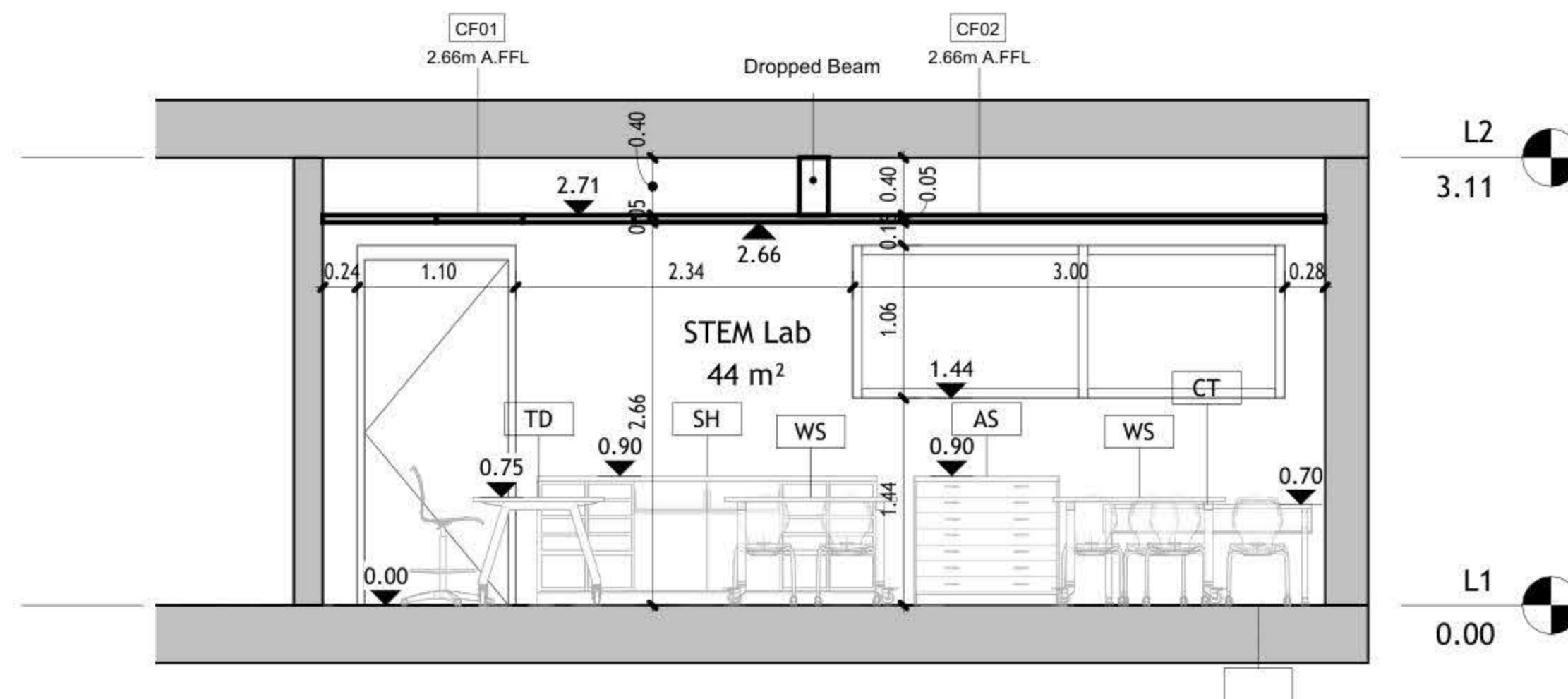
Fasayel Secondary Mixed School

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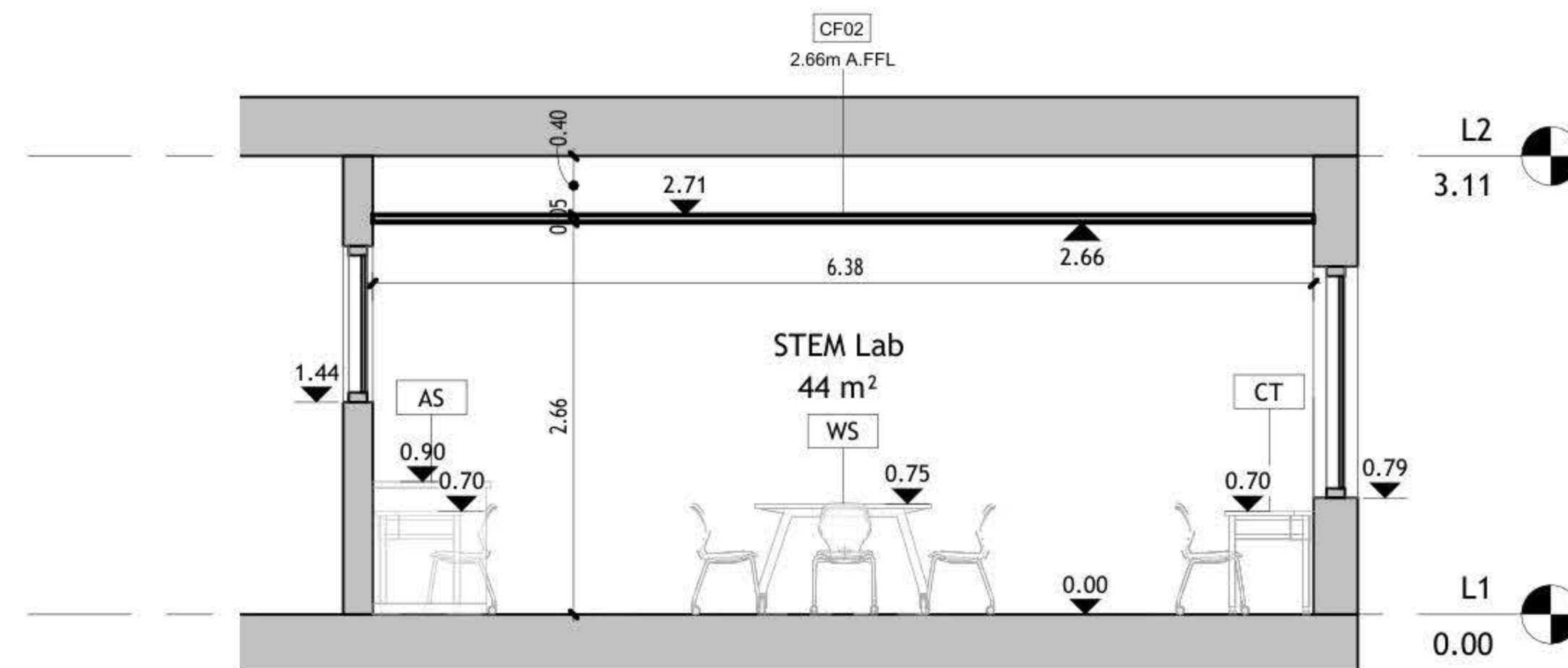
Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	0
SCALE: 1 : 50	Sht.	of	REV. #	

① Elev. A
1 : 50



② Elev. B
1 : 50



DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Fasayel Secondary Mixed School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A104	00
SCALE:	Sht. of	REV. #
1 : 50		

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>9- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.</p> <p>11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.</p> <p>12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop</p> <p>13- Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No	DATE	DESCRIPTION
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 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

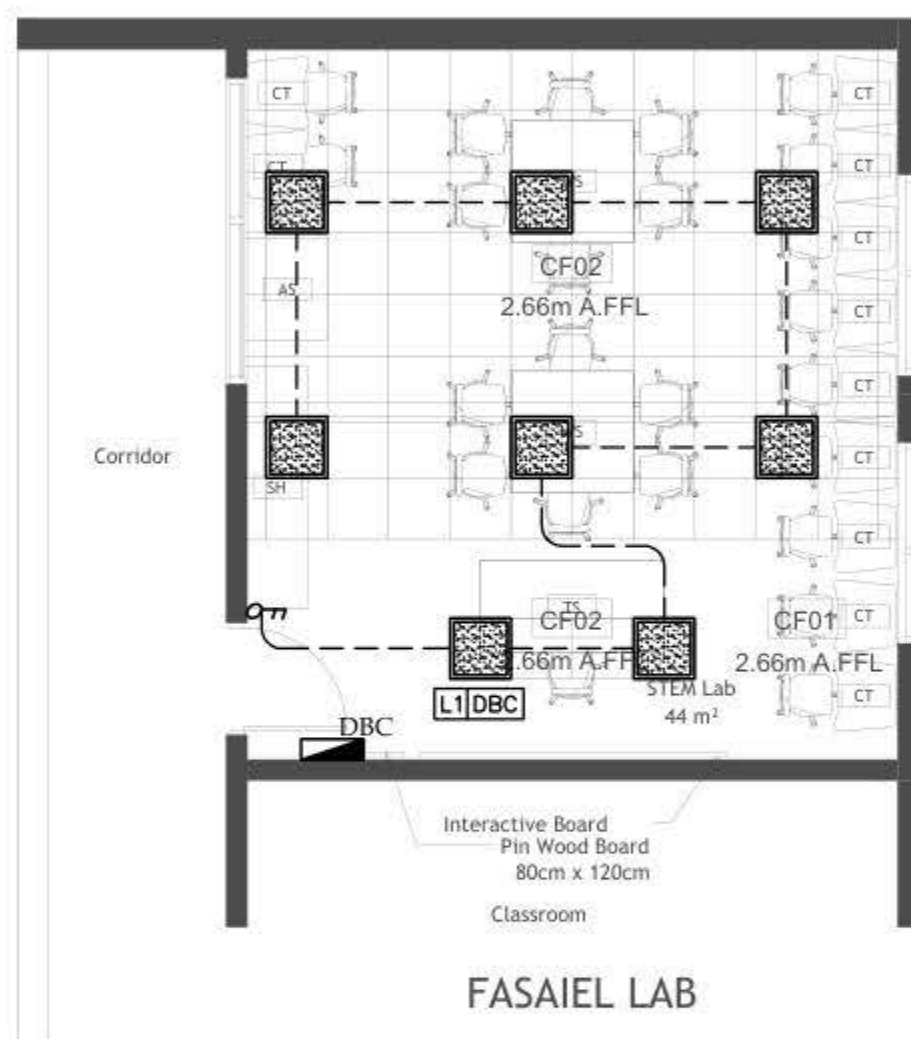
Electrical Engineering

Prepared by: E.E. GHANI ABD. ALKAR
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

FASAIEL DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	



Electrical Engineering

Designed by: P.C. B. 2014 MAA 4024

Approved by: L.F. Hernandez, Sr.

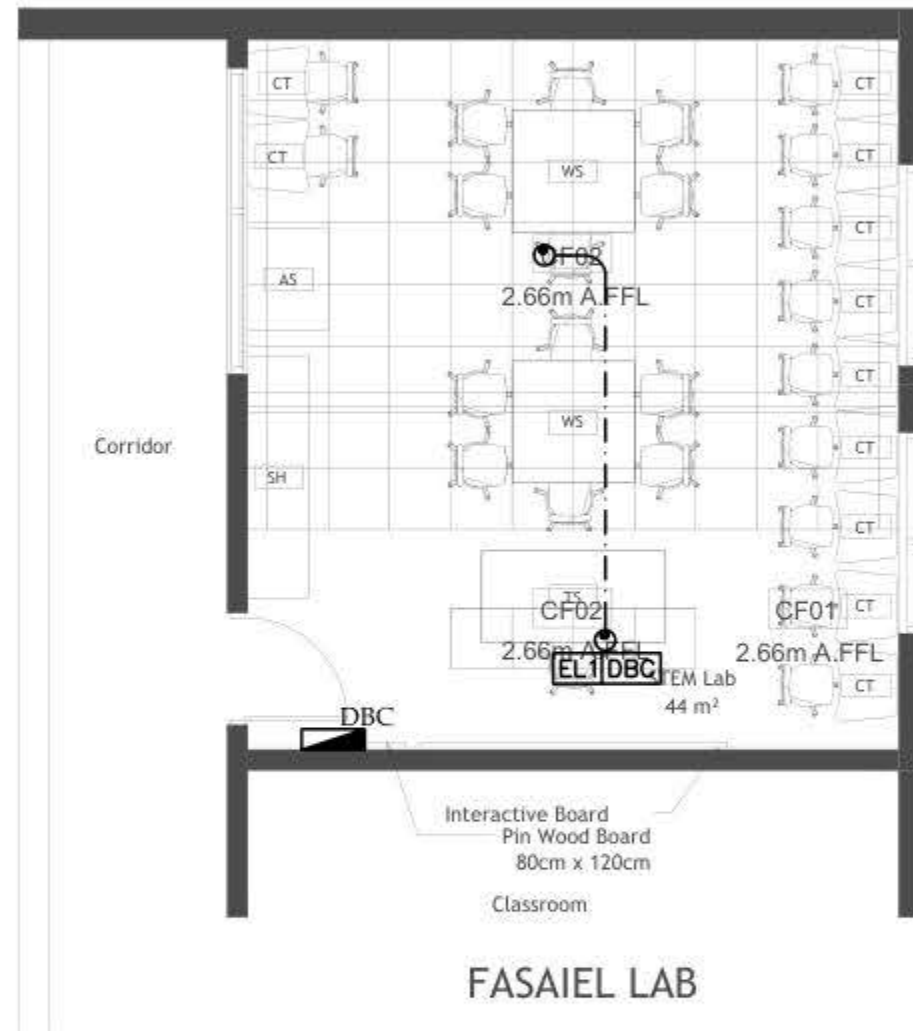
FASAIEL DESIGN

LIGHTING LAYOUT

Date: 08/01/2025

[illegible]

NOTES



NO	DATE	DESCRIPTION
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2		
3		
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5		
6		
7		

Orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

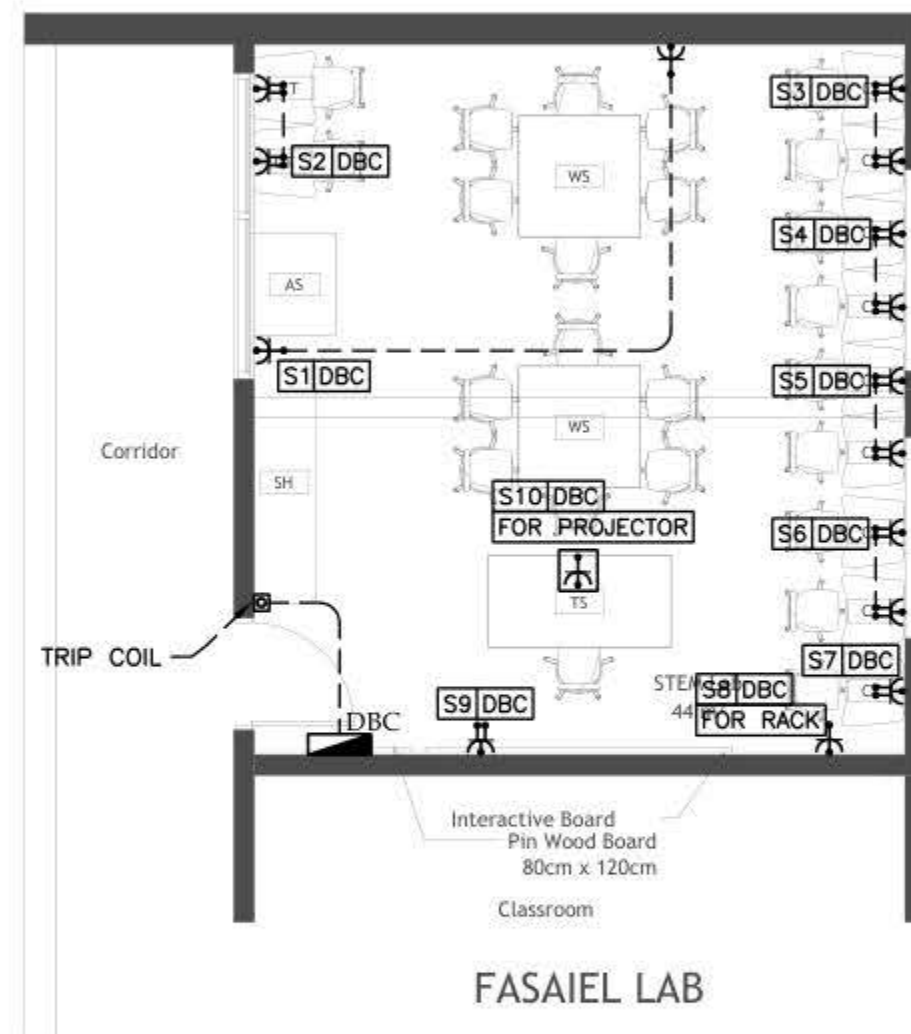
Electrical Engineering
 Designed by: F. El-Dabbas
 Drawn by: F. El-Dabbas
 Checked by: F. El-Dabbas
 Approved by: F. El-Dabbas

FASAIEL DESIGN

EMERGENCY LIGHTING LAYOUT

Date:	001/2005
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 201



NOTES

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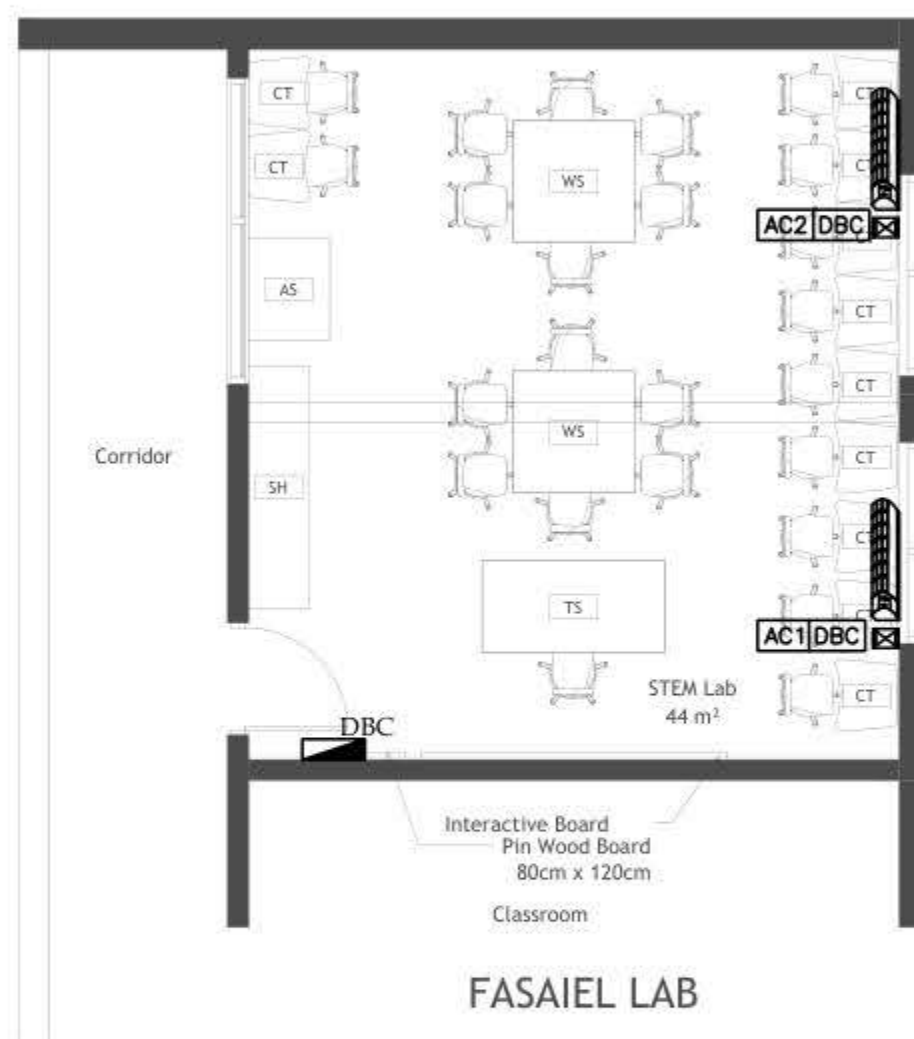


Electrical Engineering
Designed by: F. El-Dokki MSc Eng
Drawn by: Sami
Checked by: F. El-Dokki MSc Eng
Reviewed by: F. El-Dokki MSc Eng
FASAIEL DESIGN

POWER LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	34/008

E 301



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

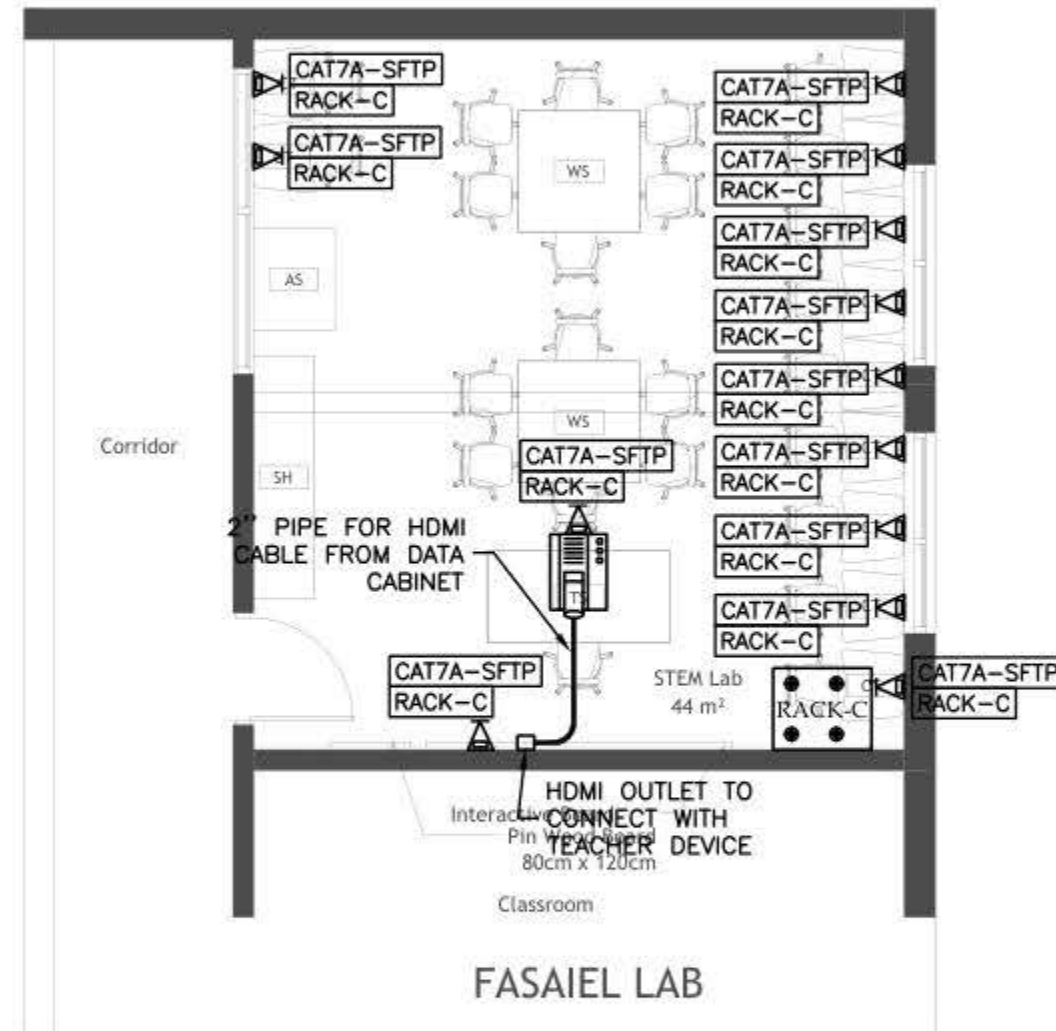
Approved by: J.E. Hernandez, Syst

FASAJEL DESIGN

POWER FOR MECH

Date: _____

E 401



NO	DATE	DESCRIPTION
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6		



Electrical Engineering

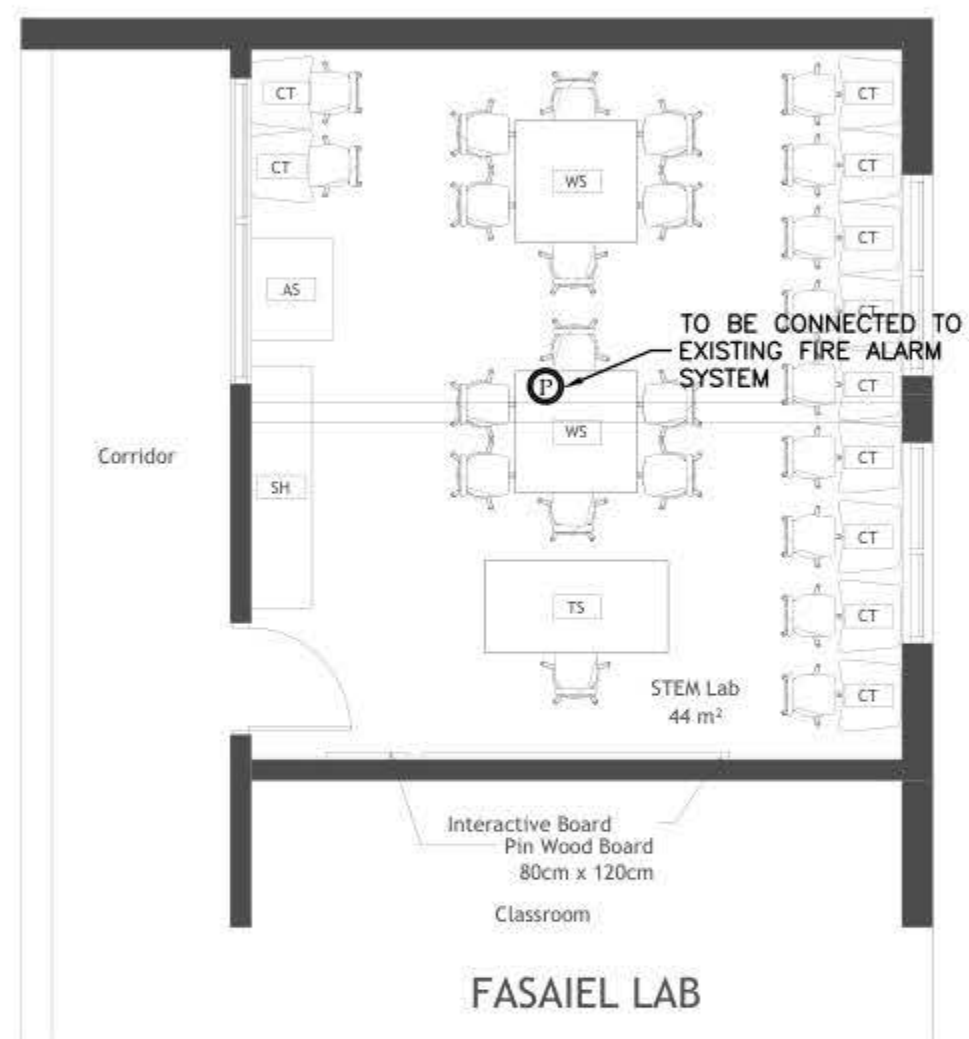
Designed by: F. El-Dabbas
Drawn by: F. El-Dabbas
Checked by: F. El-Dabbas
Approved by: F. El-Dabbas

FASAIEL DESIGN

LOW VOLTAGE LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 501



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

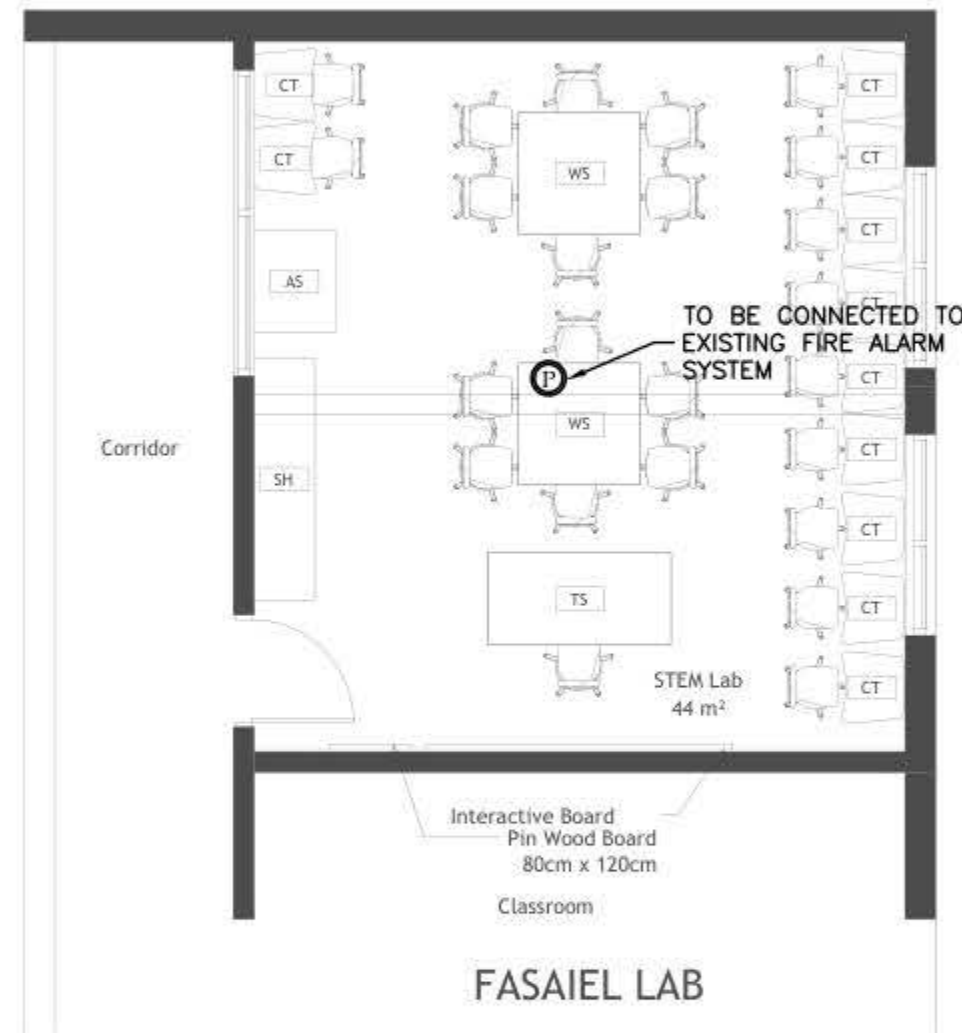
Approved by: J.E. Hernandez, Syst

FASAJEL DESIGN

FIRE ALARM LAYOUT

E 601

NOTES



NO	DATE	DESCRIPTION
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2		
3		
4		
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6		



Electrical Engineering

Designed by: F. E. El-Sayed MSc Eng
Drawn by: Sameh
Checked by: F. E. El-Sayed MSc Eng
Approved by: F. E. El-Sayed MSc Eng

FASAIEL DESIGN

FIRE ALARM LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 601