

MAIN DRAWINGS

DESIGN AND SUPERVISION CONSULTANCY FOR REHABILITATION WORKS AT AL-BEIRUNI SECONDARY BOYS SCHOOL IN AL-RAM



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رام الله - خلف مجمع الاسراء التجاري

**MINISTRY OF EDUCATION
MOE**

APR, 2025

Funded by:



DRG. No. G-000

ARCHITECTURAL DRAWINGS

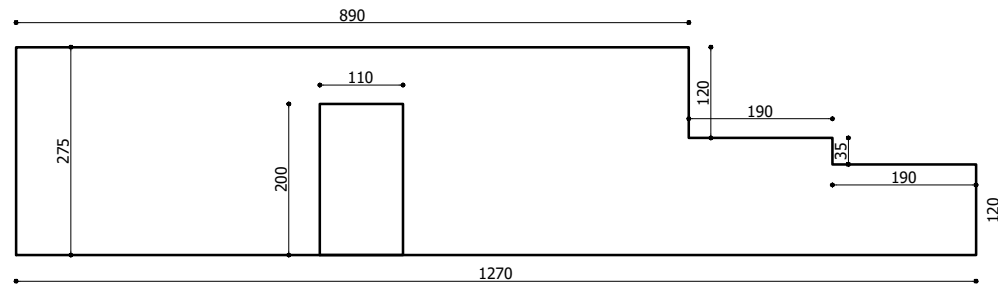
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-ALL LEVELS ARE IN M. UNLESS NOTED OTHERWISE

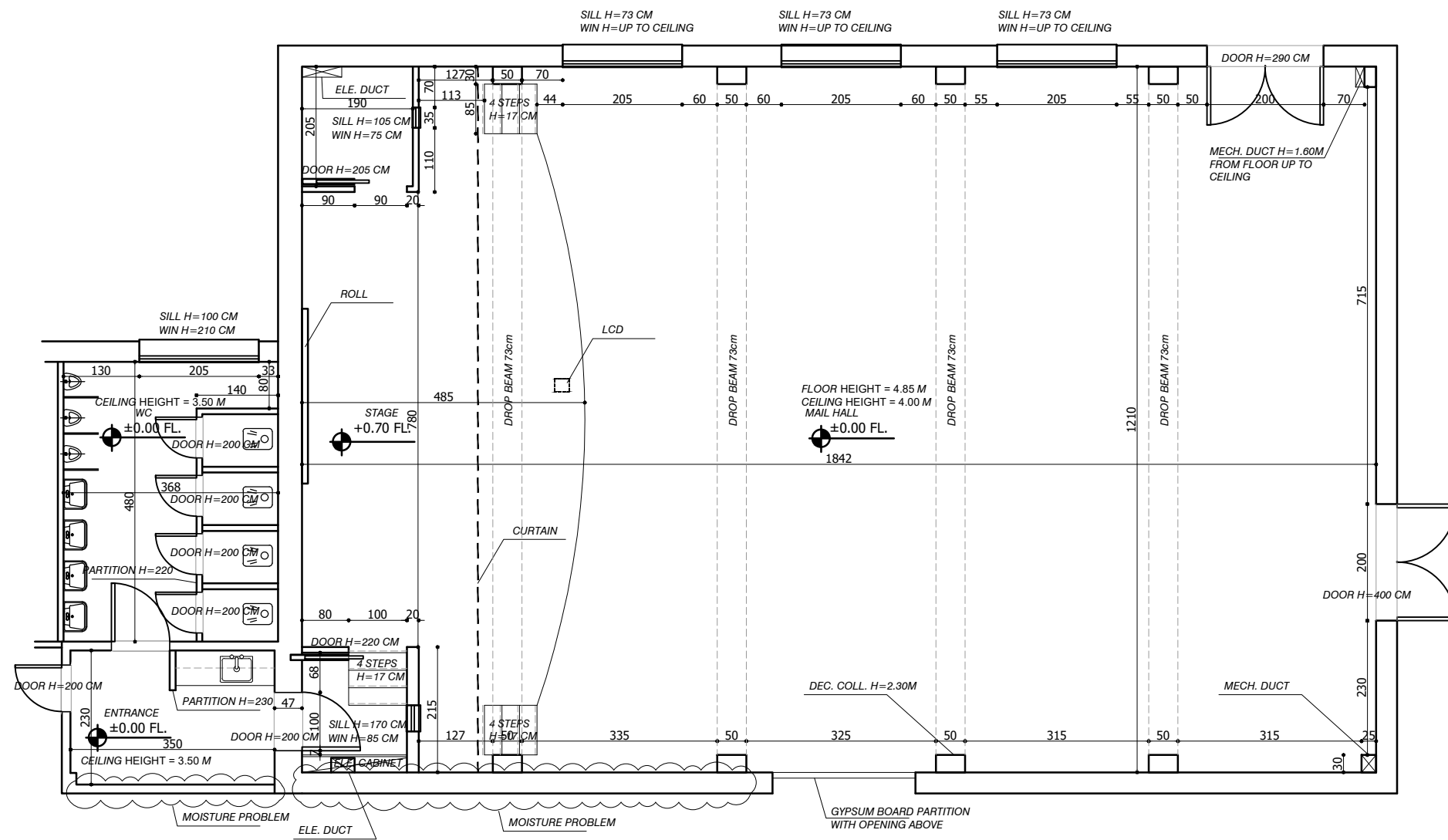
☐ INSULATION RANDOPAN 3CM THICK

REV.	DATE	DESCRIPTION
1		
2		
3		

Prepared by	Diyar Consultants Co.	Scale
Date	Apr,2025	Sheet No. G-001



EXISTING EXTERNAL WALL ELEVATION
SCALE 1/100



FLOOR HEIGHT = 4.85 M
FALSE CEILING HEIGHT = 4.00 M

EXISTING GROUND FLOOR PLAN
DIMENSION LAYOUT
SCALE 1/100

Notes:
-ALL DIMENSIONS ARE IN CM.UNLESS NOTED OTHERWISE

-DIMENSIONS SHOULD NOT BE SCALED OUT
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Legend:

- SECTION NUMBER
REFERENCE SHEET NUMBER
- DETAIL NUMBER
REFERENCE SHEET NUMBER
- FLOOR FINISH LEVEL
FLOOR CONCRETE LEVEL
- LEVEL SIGN IN PLAN
- WINDOW NUMBER
REFERENCE SHEET NUMBER
- DOOR NUMBER
REFERENCE SHEET NUMBER
- RC CONCRETE FOR COL.
- CONCRETE
- STONE WALL
- HOLLOW BLOCKS
- INSULATION RANDOPAN 3CM THICK

NORTH



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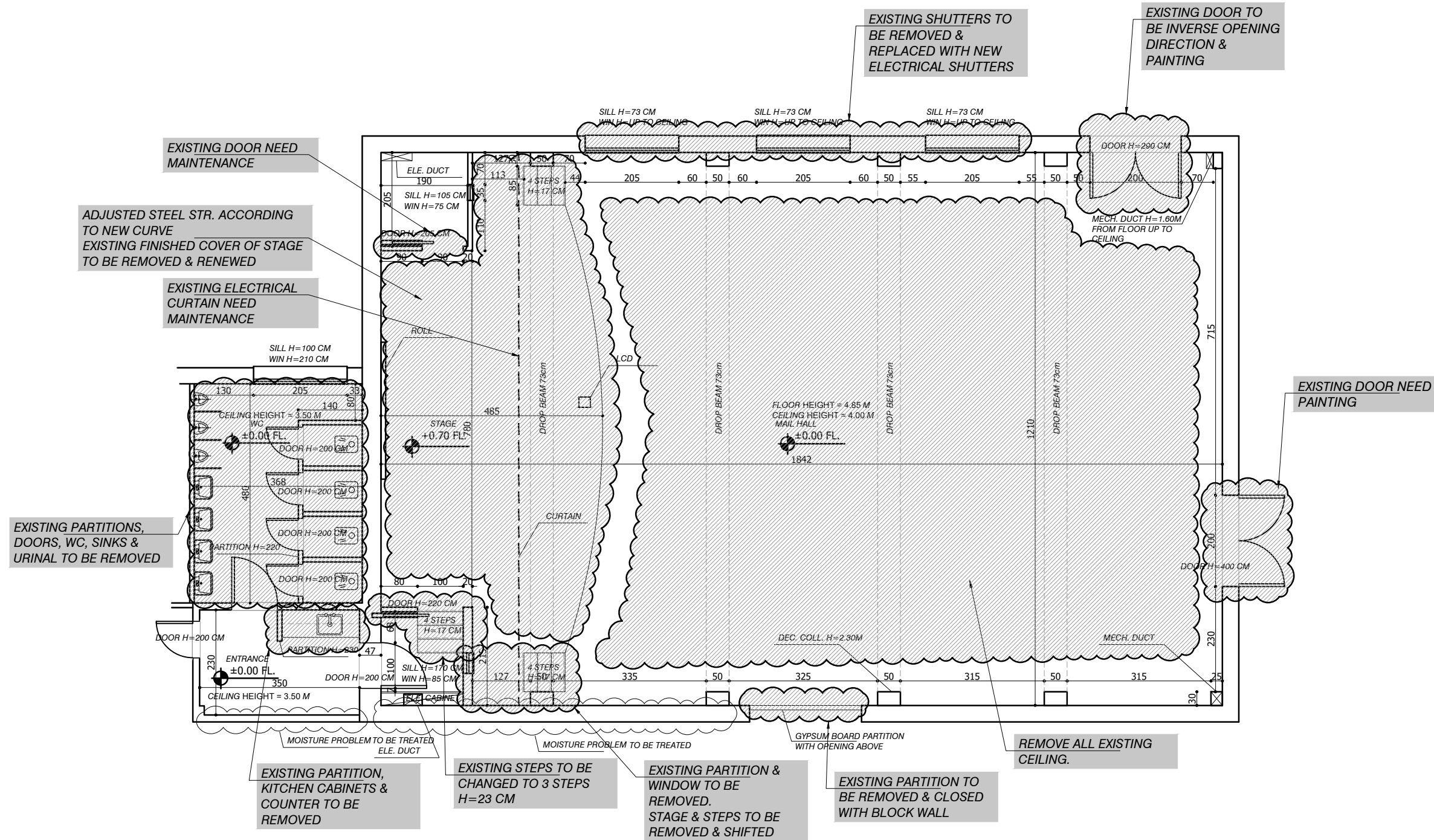
Project Name:

DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title

EXISTING GROUND FLOOR PLAN

Prepared by	Diyar Consultants Co.	Scale 1:100 @ A3
Date	Apr, 2025	Sheet No. A-101



FLOOR HEIGHT = 4.85 M
FALSE CEILING HEIGHT = 4.00 M

PREPARING WORK AT GROUND
FLOOR BEFORE STARTING
SCALE 1/100

Notes:
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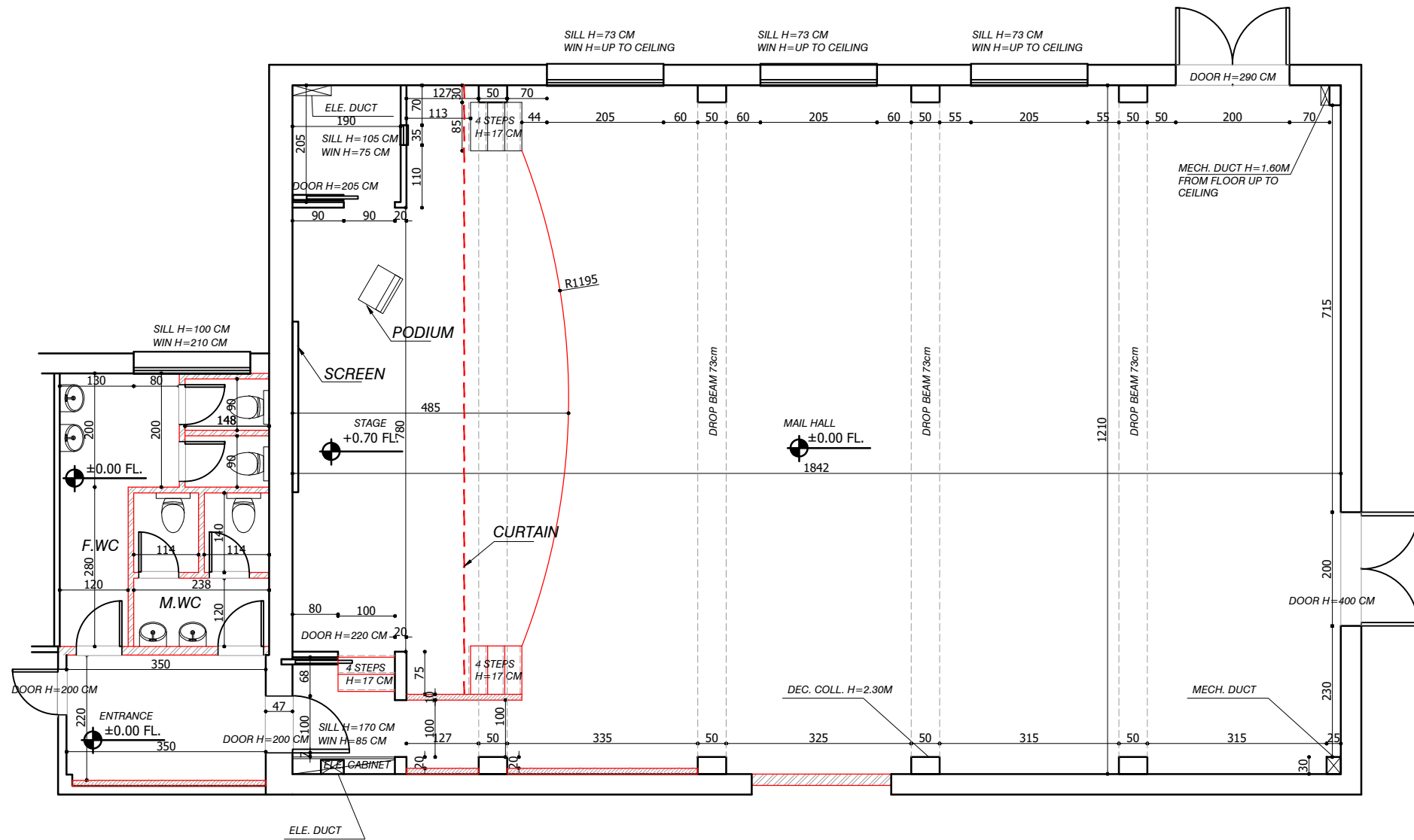
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SCHOOL IN AL-RAM

Drawing Title

PREPARING WORK
AT GROUND FLOOR

Prepared by	Diyar Consultants Co.	Scale
		1:100 @ A3
Date	Apr,2025	Sheet No.
		A-102



FLOOR HEIGHT = 4.85 M
FALSE CEILING HEIGHT = 4.00 M

PROPOSED GROUND FLOOR PLAN
SCALE 1/100

Notes:
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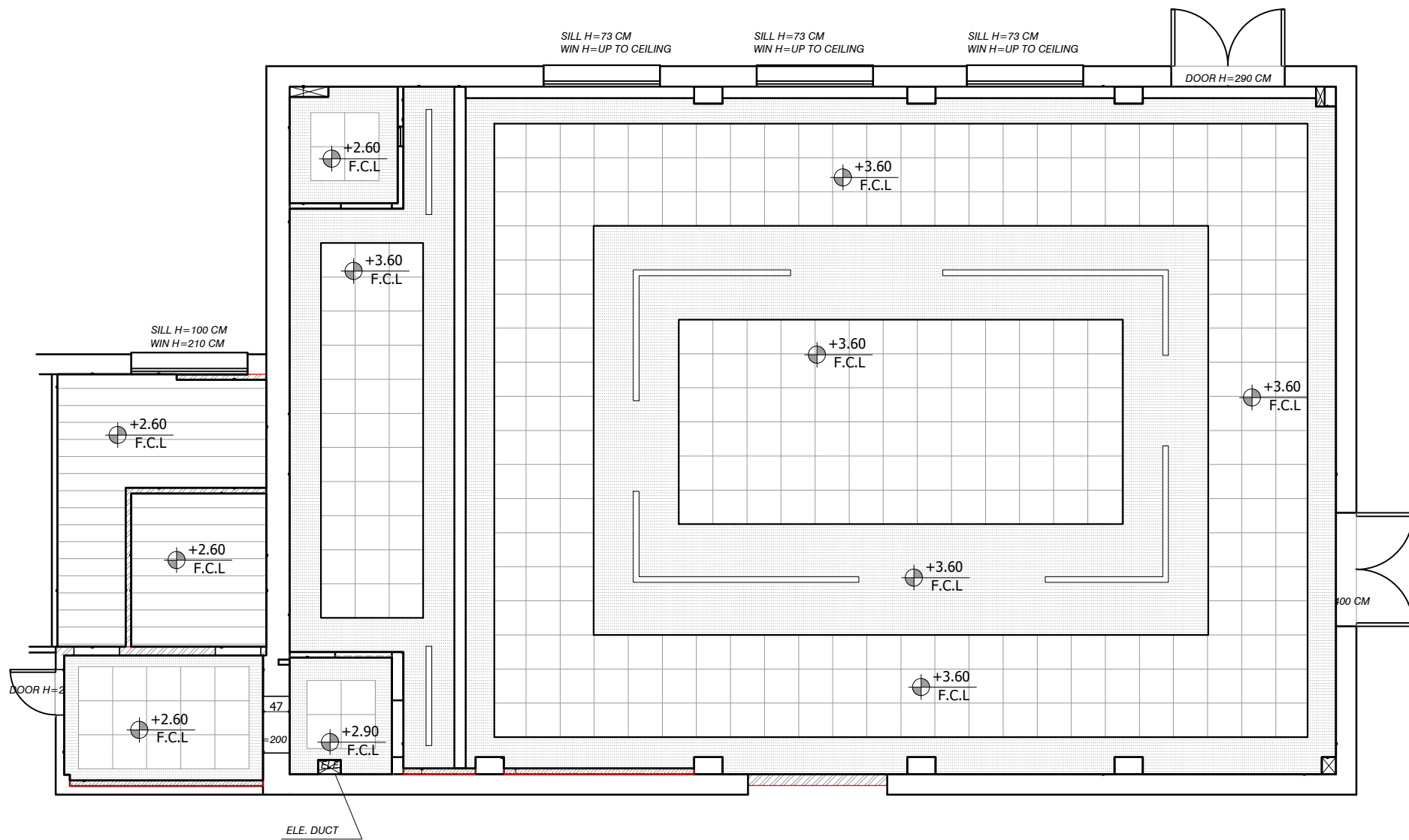
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SCHOOL IN AL-RAM

Drawing Title

PROPOSED GROUND FLOOR PLAN

Prepared by	Diyar Consultants Co.	Scale 1:100 @ A3
Date	Apr,2025	Sheet No. A-103



	GYPSUM BOARD WITH PLASTER SKIM COATING & EMULSION WHITE PAINT		LIGHT GRILL
	600*600 * 20 mm THICK SUSPENDED GYPSUM TILES .		SPOT LIGHT
	300* Var.*2 mm THICK ALUMINUM SUSPENDED LINEAR STRIPS.		PENDANT LIGHT
	LINEAR LIGHT		FALSE CEILING LEVEL

PROPOSED GROUND FLOOR CEILING LAYOUT
SCALE 1/100

Notes:
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Legend:

SECTION NUMBER
REFERENCE SHEET NUMBER

DETAIL NUMBER
REFERENCE SHEET NUMBER

FLOOR FINISH LEVEL
FLOOR CONCRETE LEVEL

LEVEL SIGN IN PLAN

WINDOW NUMBER
REFERENCE SHEET NUMBER

DOOR NUMBER
REFERENCE SHEET NUMBER

RC CONCRETE FOR COL.

CONCRETE

STONE WALL

HOLLOW BLOCKS

INSULATION RANDOPAN 3CM THICK

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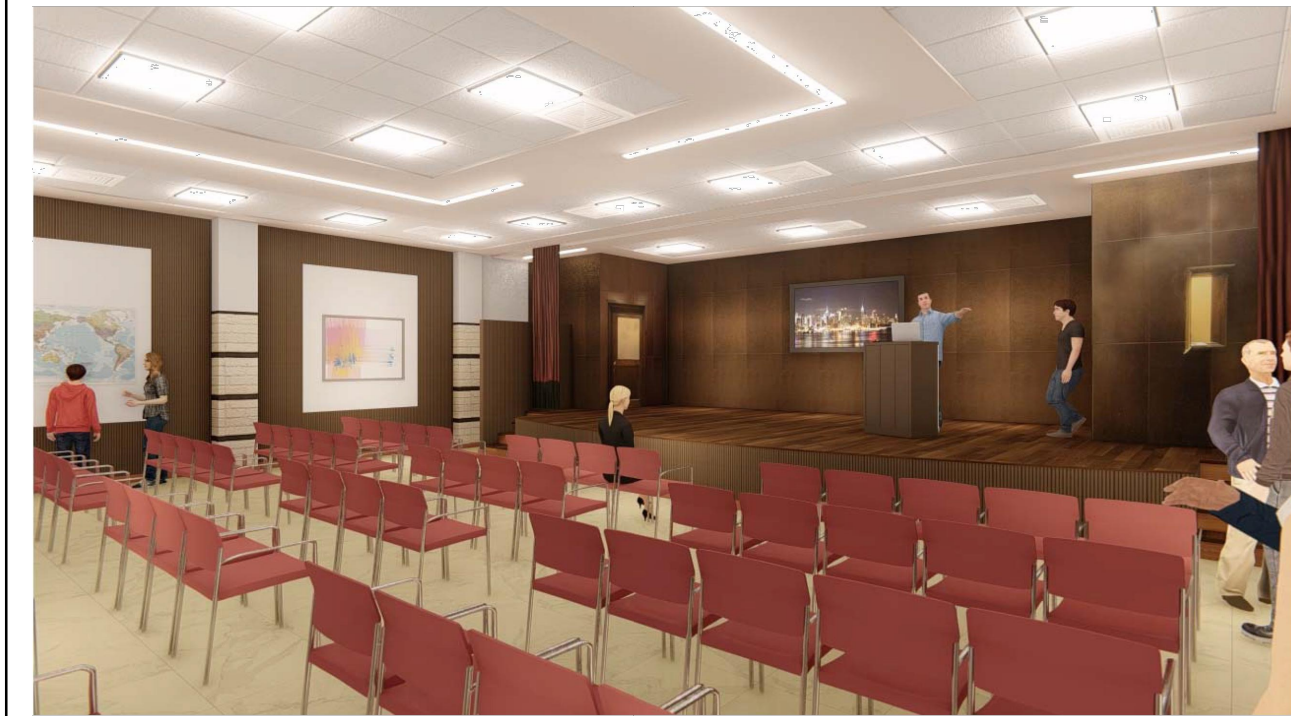
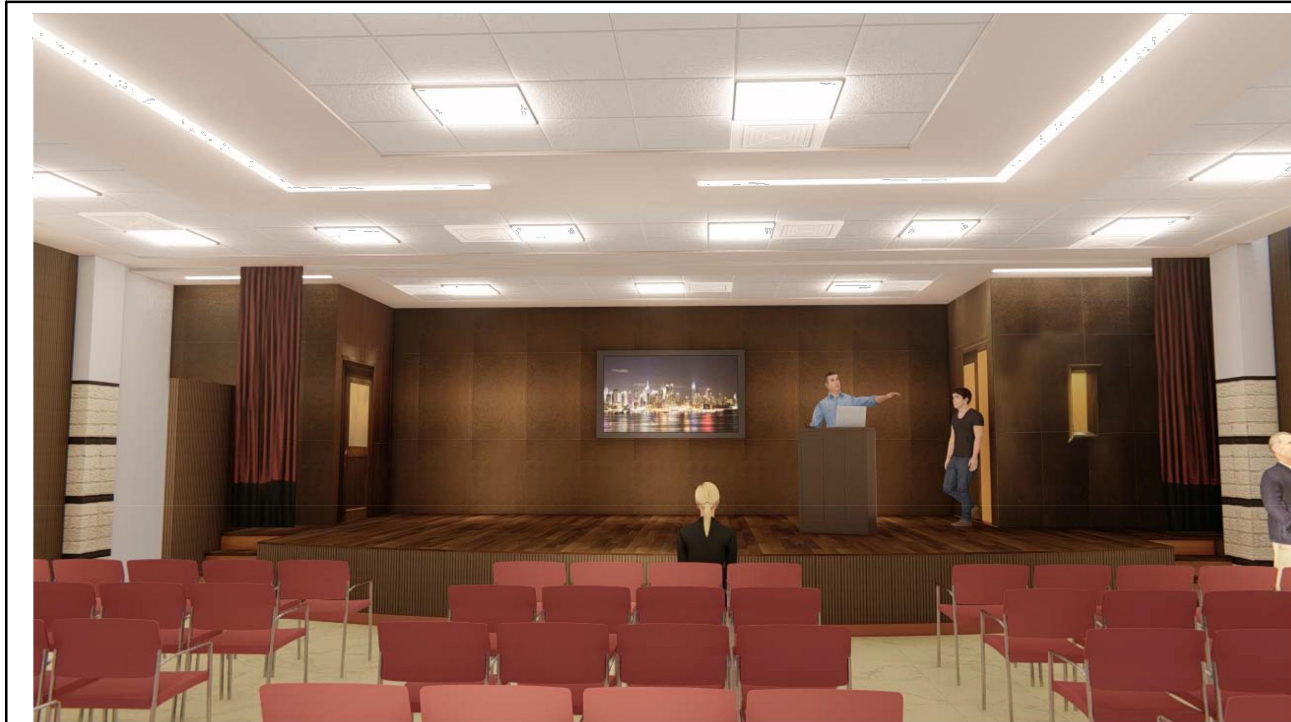
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Drawing Title
PROPOSED GROUND FLOOR
CEILING LAYOUT

Prepared by	Diyar Consultants Co.	Scale 1:100 @ A3
Date	Apr,2025	Sheet No. A-104



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FLOOR CONCRETE LEVEL

LEVEL SIGN IN PLAN

WINDOW NUMBER
REFERENCE SHEET NUMBER

DOOR NUMBER
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RC CONCRETE FOR COL.

CONCRETE

STONE WALL

HOLLOW BLOCKS

INSULATION RANDOPAN 3CM THICK

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Project Name:

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AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title

3D SHOTS
(MAIN HALL)

Prepared by Diyar Consultants Co. Scale
N/A

Date Apr,2025 Sheet No.
A-105



Notes:
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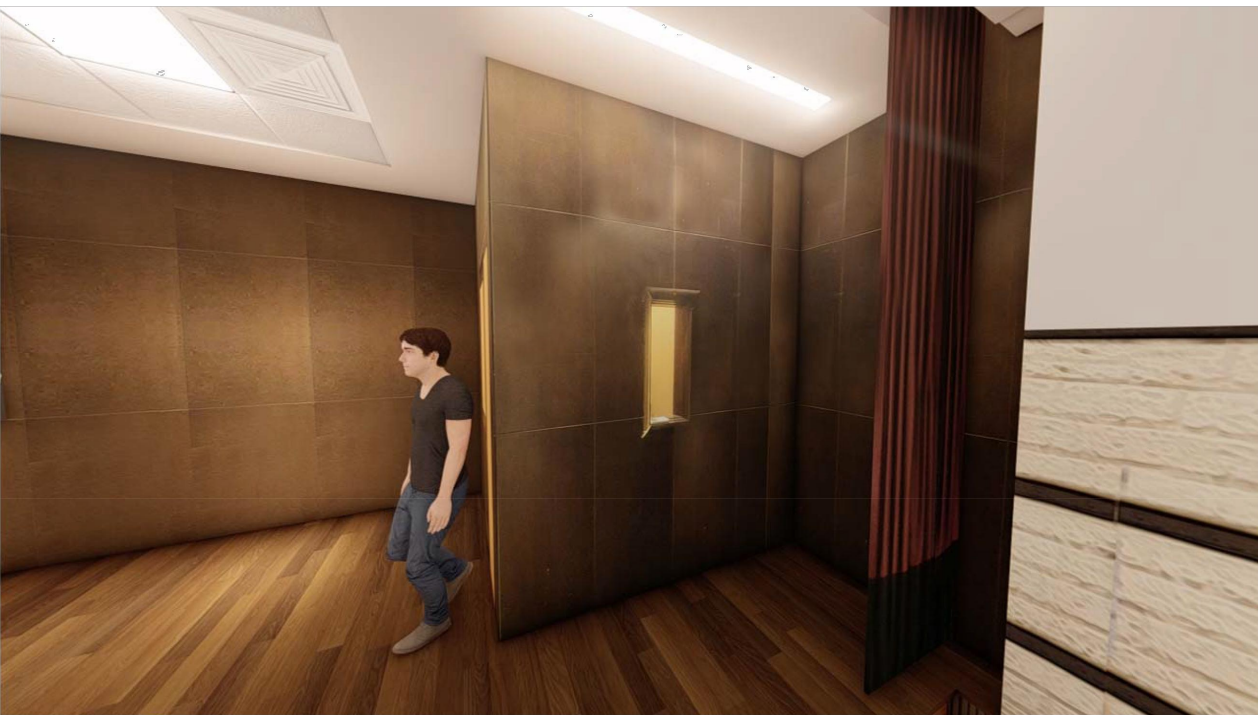
DESIGN DRAWINGS

Project Name:

DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title
3D SHOTS
(MAIN HALL)

Prepared by	Diyar Consultants Co.	Scale	N/A
Date	Apr,2025	Sheet No.	A-106



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DESIGN DRAWINGS

Project Name:

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CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title
3D SHOTS
(MAIN HALL)

Prepared by	Diyar Consultants Co.	Scale N/A
Date	Apr,2025	Sheet No. A-107

SYMBOL	DESCRIPTION	
	HEIGHTS	LIGHTING FIXTURES
	CEILING	DECORATIVE CHANDLIER
		Smart FLOOD LIGHT
		Open Ceiling Lighting
		30W SURFACE MOUNTED LIGHT WATER PROOF
	60*60cm	18 W CEILING MOUNTED LIGHTING POINT/FIXTURE WATER PROOF
		40 W LED RECESSED IN CEILING
		2X36W SURFACE FL. LIGHT W.P
		DECORATIVE POWER LED WALL MOUNTED LIGHTING FIXTURE
	CEILING	EMERGENCY KIT, FOR ANY OF THE LIGHTING FIXTURES, FACTORY ASSEMBLED.
	220cm	WALL MOUNTED POINT/FIXTURE - BED ROOMS
	STAIRS	WALL MOUNTED RECESSED POINT/FIXTURE (W.P.)
	CEILING	SELF-CONTAINED, RECESSED CEILING MOUNTED DOUBLE SIDED EXIT SIGN FOR MAINTAINED EMERGENCY LIGHTING
	FLOOR	RECESSED ARCHITECTURAL LED FLOODLIGHT
	FLOOR	GARDEN SPOT LED,24W MINIMUM FIXTURE, IP65
	160cm	WALL MOUNTED ARCHITECTURAL LED FLOODLIGHT(NARROW BEAM)
	160cm	WALL MOUNTED ARCHITECTURAL LED FLOODLIGHT(WIDE BEAM)
	CEILING	EMERGENCY LIGHTING LED
	LIGHTING SWITCHES	
	SINGLE POLE ONE GANG SWITCH	
	SINGLE POLE ONE GANG SWITCH W.P.	
	SINGLE POLE TWO GANG SWITCH	
	SINGLE POLE TWO GANG SWITCH W.P.	
	SINGLE POLE THREE GANG SWITCH	
	SINGLE POLE THREE GANG SWITCH W.P.	
	SINGLE POLE FOUR GANG SWITCH	
	TWO WAY SWITCH	
	INTERMEDIATE SWITCH	
	PUSH BUTTON	
	UP-DOWN SWITCH FOR SHUTTERS	
	SINGLE POLE SWITCH WITH INDICATION LAMP / W.P.	
	DOUBLE POLE SWITCH WITH INDICATION LAMP / W.P.	
	EXTRACT FAN	
	POWER SOCKETS	
	16A 3 PIN SOCKET OUTLET 16A 5 PIN SOCKET OUTLET(Industrial 3-phase)	
	16A 3 PIN SOCKET OUTLET W.P.	
	16A 3 PIN TWIN SOCKET OUTLET	
	16A 3 PIN TWIN SOCKET OUTLET W.P.	
	16A 3 PIN SOCKET OUTLET FIXED ON CEILING	

SYMBOL	DESCRIPTION
	16A 3 PIN A/C SOCKET
	10 W SPEAKER
	ELECTRICAL DISTRIBUTION BOARDS
	DISTRIBUTION BOARD
	MAIN ELECTRIC BOARD L.V. SIDE
	THREE PHASE KWHM
	4-POLE CHANGE OVER SWITCH MANUAL OR AUTO
	THREE/SIGLE PHASE FUSE
	THREE/SIGLE PHASE EARTH LEACKAGE RELAY
	THREE/SINGLE PHASE MCCB
	THREE/SINGLE PHASE MCB
	STEP RELAY
	TIMER
	CONTACTOR
	GENERAL MULTIMETER
	AMETER/VOLTMETR
	TRANSFORMER
	INDICATOR LAMPS WITH PUSH BUTTON
	GENERATOR
	CHECK BOX
	80*80CM ELECTRICAL MANHOLE
	60*60CM TELEPHONE MANHOLE
	40*40cm EARTHING PIT19mm,1.5m CU ROD
	L.V. SOCKETS
	OUTDOOR CAMERA
	DATA SOCKET OUTLET
	T.V. SOCKET OUTLET
	INTERCOME SYSTEM
	OUTDOOR UNIT
	INDOOR UNIT
	Safety SYSTEM
	PHOTO SMOKE SENSOR/ DITTO BUT WITH INDICATION LAMP ABOVE FALSE CEILING
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL CALL POINT/BREAK GLASS
	INTERNAL SIREN
	EXTERNAL SIREN WITH FALSHER
	FIRE ALARM CONTROL PANEL

	LIST OF DRAWINGS
E00	LEGEND & LIST OF DRAWINGS
E01	LIGHTING SYSTEM GROUND FLOOR
E02	POWER SYSTEM GROUND FLOOR
E03	AIR CONDITION SYSTEM GROUND FLOOR
E04	SOUND SYSTEM PLAN GROUND FLOOR
E05	ELECTRICAL BOARD
E06	
E07	
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E 18	
E 19	
E 20	
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E 22	
E 23	
E 24	
E 25	

- GENERAL NOTES.**
- ALL DISTRIBUTION BOARDS SHALL BE INSTALLED WITH TOP END AT 180cm FROM FFL. UNLESS OTHERWISE INDICATED.
 - ALL LIGHTING SWITCHES SHALL BE INSTALLED AT 135cm FROM FFL. AND TO BE MOUNTED INSIDE THE ROOMS ON THE SIDE OF THE DOOR HANDLE WITHIN 15cm FROM DOOR FRAME UNLESS OTHERWISE INDICATED.
 - POWER & LOW VOLTAGE OUTLETS SHALL BE INSTALLED AT 60cm FROM FFL. UNLESS OTHERWISE INDICATED.
 - ALL WATER PROOF POWER OUTLETS SHALL BE INSTALLED AT 130cm FROM FFL. UNLESS OTHERWISE INDICATED.
 - KWHM PANEL LOCATION COULD BE CHANGED ACCORDING TO LOCAL ELECTRICITY COMPANY REGULATIONS
 - CABLING ROUTING IS INDICATIVE ONLY.

RECOMMENDED CONDUITS COLORS PER EACH SYSTEM		
REF.	SYSTEM	COLOR
1	PUBLIC ADDRESS, CCTV AND BURGLAR ALARM	WHITE
2	POWER, AC AND BMS SYSTEMS	GREEN
3	LIGHTING AND KNX SYSTEMS	BLUE
4	DATA, TELEPHONE AND ACCESS CONTROL	YELLOW
5	UPS SYSTEM	BROWN
6	Safety SYSTEM	RED

- * OTHERS TO BE COORDINATED WITH THE ENGINEER
- * CONDUITS SHOULD BE PLIABLE SMOOTH FLAME RETARDANT ACCORDING TO ELECTRICAL SPECS.

Notes:

Legend:

NORTH

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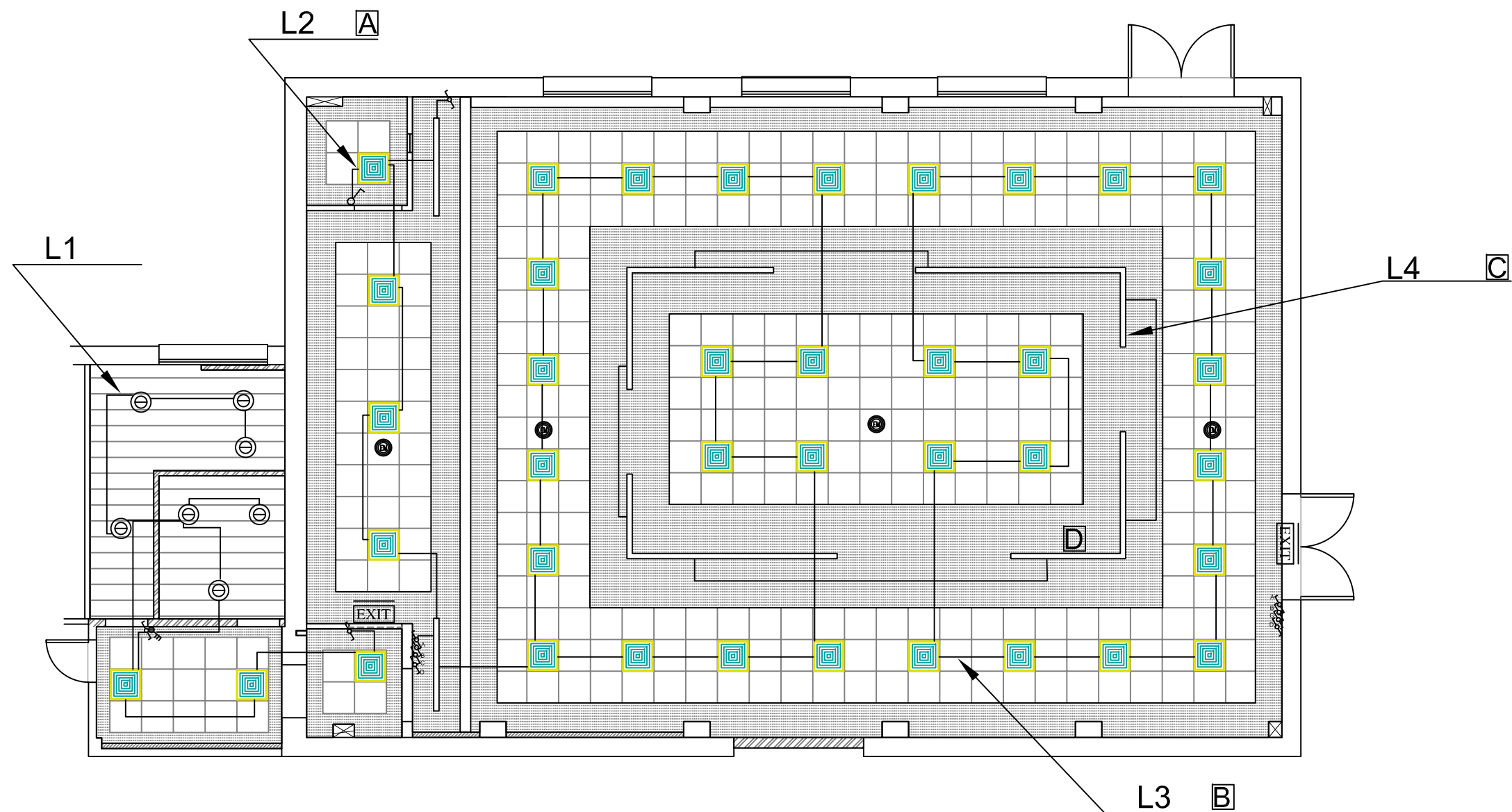
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DESIGN DRAWINGS

Project Name:
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CONSULTANCY FOR
REHABILITATION WORKS AT
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SCHOOL IN AL-RAM**

Drawing Title:
**PROPOSED GROUND FLOOR
ELECTRICAL LEGEND**

Prepared by	V.DAoud	Scale 1:100 @ A3
Date	APR,2025	Sheet No. E-00



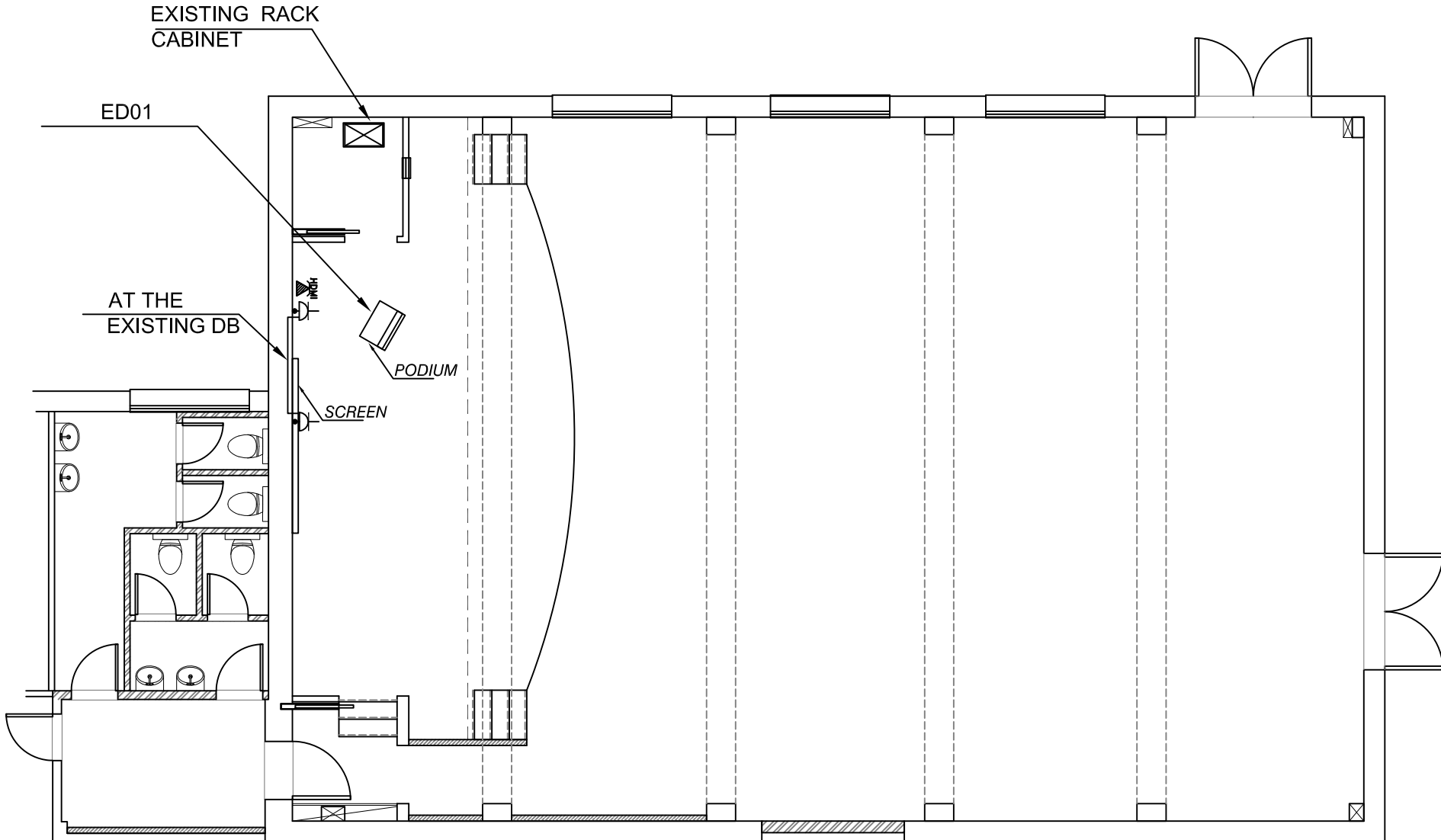
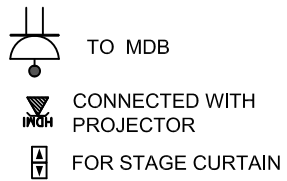
Note: The lighting circuits will be connected to the existing distribution board (DB) on the SAME floor. There are existing 10A circuit breakers, and the contractor is responsible for connecting the lines accordingly.

Note: Emergency light will be connected to the nearest lighting circuit

Note: The contractor shall fix the Up/Down wall light which is fixed at the wood decor at the same existing lighting line and point TYPE D

Notes:		
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<p>Architectural & Engineering Firm:</p> <p>Tel: (+972-2) 2961565 Fax: (+972-2) 2961566 E-mail: diyar@diyar-consultants.com P.O.BOX 1065, Ramallah, Palestine رام الله - فلسطين جميع الحقوق محفوظة</p>		
DESIGN DRAWINGS		
<p>Project Name:</p> <p>DESIGN AND SUPERVISION CONSULTANCY FOR REHABILITATION WORKS AT AL-BEIRUNI SECONDARY BOYS SCHOOL IN AL-RAM</p>		
<p>Drawing Title</p> <p>PROPOSED GROUND FLOOR LIGHTING SYSTEM</p>		
Prepared by	V.DAOUUD	Scale 1:100 @ A3
Date	APR, 2025	Sheet No. E-01

ED01



Note: The contractor must inspect, maintain, and test all existing power sockets. each socket should be labeled to indicate its corresponding sub-board on the existing panel.

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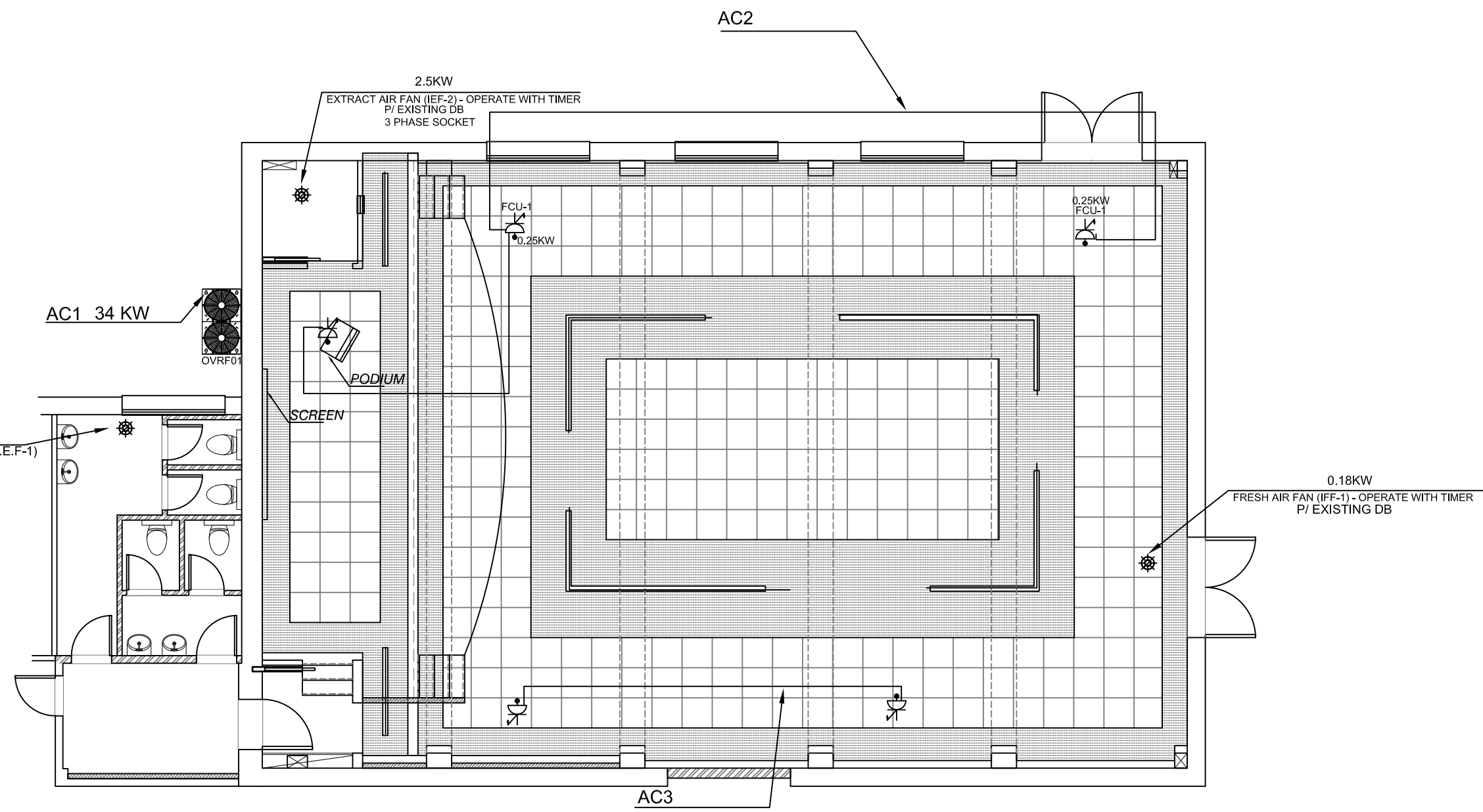


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Drawing Title
**PROPOSED GROUND FLOOR PLAN
POWER SYSTEM**

Prepared by	V.DAoud	Scale 1:100 @ A3
Date	APR,2025	Sheet No. E-02



Note: The contractor must inspect, maintain, and test all existing power sockets. each socket should be labeled to indicate its corresponding sub-board on the existing panel.

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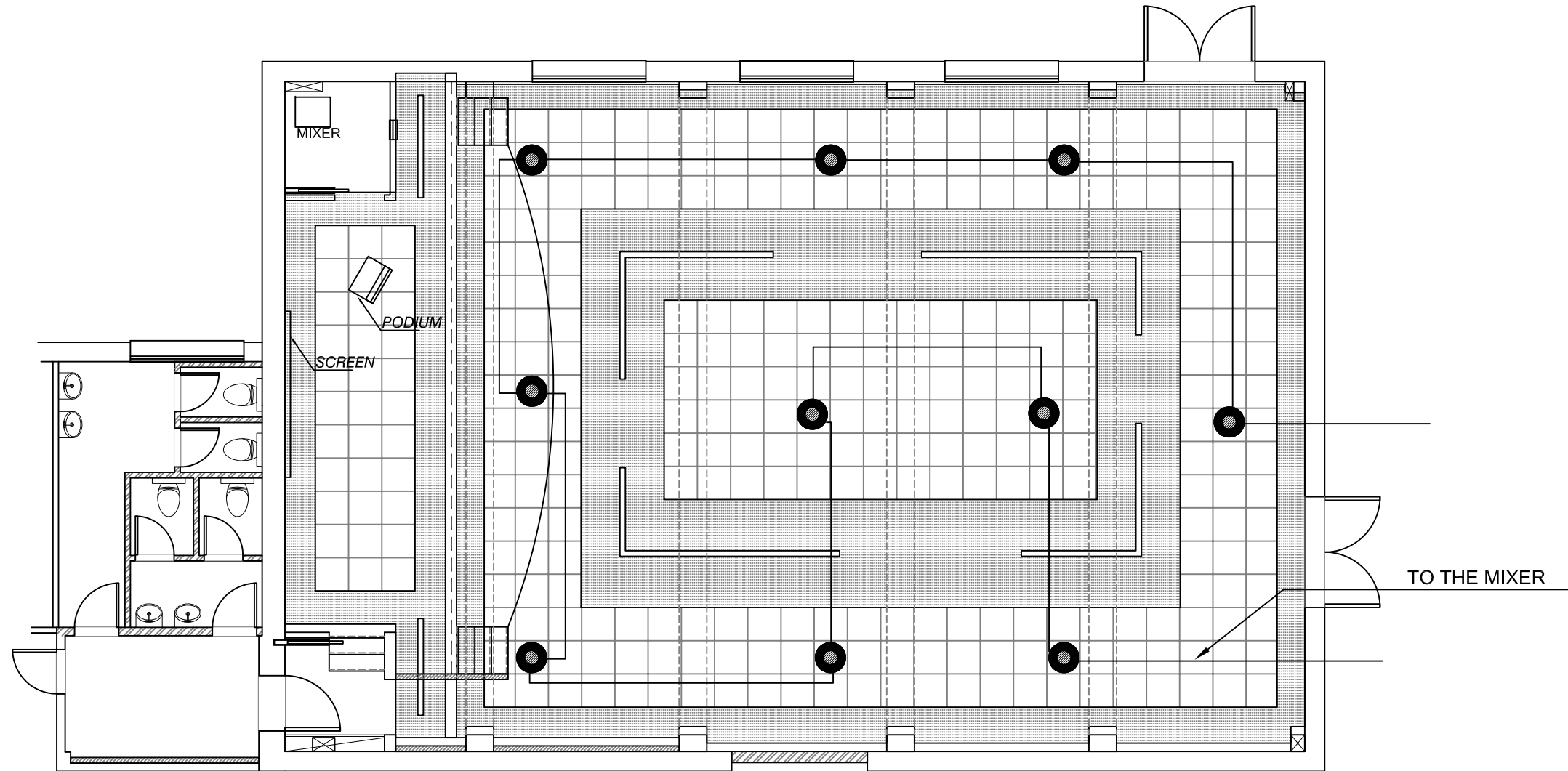


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Drawing Title
**PROPOSED GROUND FLOOR PLAN
AIR CONDITION SYSTEM**

Prepared by	V.DAoud	Scale 1:100 @ A3
Date	APR,2025	Sheet No. E-03



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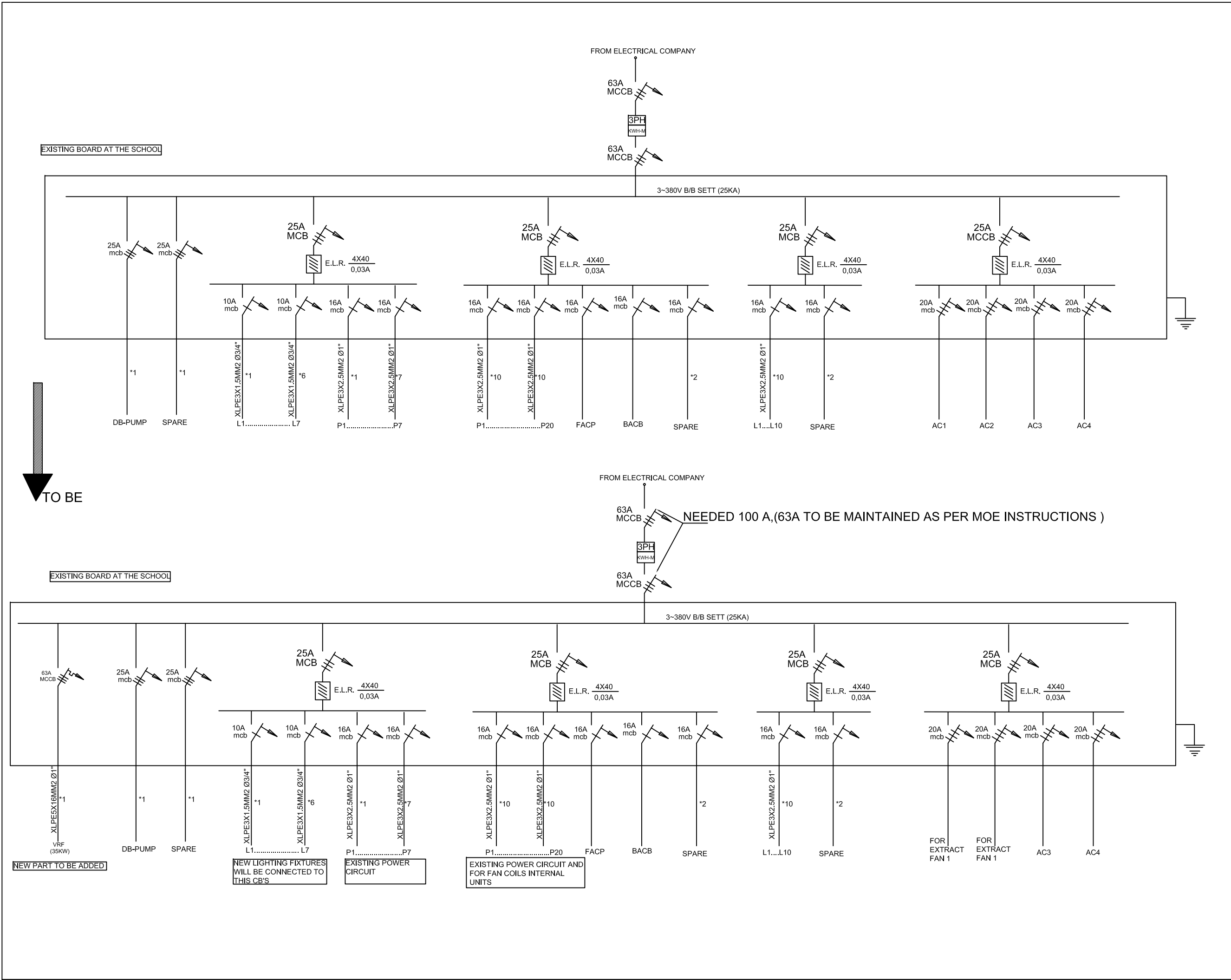
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Drawing Title
PROPOSED GROUND FLOOR PLAN
SOUND SYSTEM

Prepared by	V.DAOUUD	Scale
Date	APR,2025	Sheet No. E-04













































Notes:		
Legend:		
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T: (+972-2) 2961565 Fax: (+972-2) 2961566 E-mail: diyar@diyar-consultants.com P.O.BOX 1065, Ramallah, Palestine رام الله - فلسطين جميع الحقوق محفوظة		
DESIGN DRAWINGS		
Project Name:		
DESIGN AND SUPERVISION CONSULTANCY FOR REHABILITATION WORKS AT AL-BEIRUNI SECONDARY BOYS SCHOOL IN AL-RAM		
Drawing Title		
ELECTRICAL BOARD		
Prepared by	V.DAOU	Scale 1:100 @ A3
Date	APR.2025	Sheet No. E-05

General Notes:-

- 1- The drawings are issued for mechanical works only and shall not be used for architectural, structural or other works.
- 2- The drawings are only diagrammatic. The contractor shall execute all work in accordance with the approved shop drawing and installation drawings per the provisions of the specification.
- 3- Check and verify all field conditions for actual dimensions before preparing shop DWG
- 4- Coordinate all Mech. Works with Arch., Elec., Structural, and other trades to avoid interferences.
- 5- Allow clearances for service & maintenance of equipment as recommended by manufacturers.
- 6- All electrical operated equipment shall be suitable for 400V/3PH/50HZ or 230V/1PH/50HZ as specified and shall be capable of giving the required capacities and perform properly when connected to the above mentioned power supply with a tolerance of +25% and the price should include electric installation control, electric boards.
- 7- Locate control components & all valves in an accessible place for easy operation and inspection.
- 8- Pipe material when not shown on drawings shall be per specification or bill of quantity.
- 9- All exposed bends and elbows on drain lines shall be provided with cleanouts.
- 10- Changes in pipe sizes shall be made with reducing fittings.
- 11- All pipes that passing through concrete or masonry walls, concrete floors or roofs shall be provided with pipe sleeves fitted into place during construction as shown on DETAIL.
- 12- For plumping services connected to HVAC equipment refer to HVAC drawings for the exact location, size and other requirements of the equipment.
- 13- Mechanical contractor shall supervise & follow up all electrical works related to mechanical equipment to ensure compatibility and coordination.
- 14- Weather proof all control instruments and mech. Equipment exposed to outside weather conditions according to manufacturers recommendations.
- 15- The static pressure for all fans as tabulated in the data sheets is approx., therefore, the contractor must calculate exactly the required pressure for each fan. Select the size & type of fan with motor and submit this calculation to the engineer for approval before ordering such equipment.
- 16- Size & location of equipment as shown on drawings are indicative and for guidance only adjust all related conditions according to actual equipment to be installed and coordinate with other trades.
- 17- Connect all condensate drain pans for fan coil units to nearest floor drain unless otherwise indicated on the drawings.
- 18- All cracks around air ducts, pipes, sleeves & cables or cable trays that are crossing fire walls or slabs and separating two fire zones must be filled with suitable fire prevention sealant after installation as recommended by the sealant manufacturer and as approved by the engineer.
- 19- All fans shall be selected so that noise level in the space they serve shall not exceed the specified level.
- 20- Provide access doors of approved type and size to facilitate maintenance of equipment and balance and testing of valves, dampers and controls.
- 21- The contractor should be careful about existing mechanical & electrical installations especially fiber optic cables during works. And If the contractor damages these installations during works, he should be repairing all damages on his own responsibilities & in his account.

LEGEND:-

	GAL. STEEL COLD WATER PIPE-(G.C.W.P)
	GAL STEEL HOT WATER PIPE(G.H.W.P)
	PP-RC COLD WATER PIPE-(PPR C.W.P)
	PP-RC HOT WATER SUPPLY PIPE-(PPR H.W.P)
	16mm COLD WATER PEX PIPE (C.W.P.P)
	16mm HOT WATER PEX PIPE (H.W.P.P)
	WATER DISTRIBUTION CABINET (WATER COLLECTOR)
	GATE VALVE
	STRAINER
	NON-RETURN VALVE
	AIR VENT
	AIR RELIEF VALVE
	AUTOMATIC AIR VENT WITH GATE VALVE
	ELECTRIC HOT WATER CYLINDER (E.H)
	AT HIGH LEVEL-ABOVE FALSE CEILING
	4" SN8 UPVC SEWAGE DRAIN PIPE
	2" UPVC DRAIN PIPE
	4" HDPE SEWAGE DRAIN PIPE
	2" PVC DRAIN PIPE FOR AC CONDENSATE
	STAINLESS STEEL DRAIN TRENCH WITH STAINLESS STEEL GRILL
	4" CLEAN OPEN
	FLOOR TRAP/DRAIN
	CONNECTION BOX/DRAIN
	Ø2" PVC FOR AIR CONDITION CONDENSATE DRAIN PIPE
	Ø2" PVC FOR ELECTRIC WATER HEATER DRAIN PIPE
	SOFT GAS COPPER PIPE
	MANUAL SHUT OFF VALVE & AUTOMATIC QUICK SHUT OFF VALVE ELECTRICALLY ACTUATED CONNECTED WITH GAS DETECTOR
	GAS STATION-2x12kg INSIDE 80x100x50cm VENTILATED GALVANIZED SHEET METAL CABINET WITH GAS DETECTOR
	FIRE EXTINGUISHER
	FIREFIGHTING WATER PIPE SCH40 SEAMLESS TYPE (F.W.P)
	FIRE HOSE CABINET WITH LANDING VALVE
	VOLUME DAMPER
	FIRE DAMPER / BACKDRAFT DAMPER
	CEILING EXHAUST AIR DIFFUSER GRILL (C.E.G)
	EXTRACT AIR DUCT
	IN-LINE CENTRIFUGAL EXTRACT AIR FAN (I.E.F)
	WALL EXTRACT AIR FAN (W.E.F)
	INDOOR SPLIT UNIT / OUTDOOR SPLIT UNIT
	REFRIGERANT A/C GAS COPPER PIPE (R.F.G.C.P)
	VRF A/C INDOOR UNIT
	CEILING RETURN AIR DIFFUSER GRILL (R.G)
	CEILING SUPPLY AIR DIFFUSER GRILL (S.D)

LIST OF DRAWING

M-00	GENERAL NOTES, LEGENDS, & DRAWINGS LIST
M-01	PROPOSED GROUND FLOOR PLAN - UNDERGROUND DRAIN LAYOUT -
M-02	PROPOSED GROUND FLOOR PLAN - WATER SUPPLY LAYOUT -
M-03	PROPOSED GROUND FLOOR PLAN - HVAC LAYOUT -
M-04	PROPOSED GROUND FLOOR PLAN -AC GAS PIPING & THERMOSTAT LAYOUT-
M-05	-MECHANICAL SCHEDULE 1-
M-06	MECHANICAL DETAILS DUCT DETAILS - 1
M-07	MECHANICAL DETAILS A/C SPLIT UNIT & FAN DETAILS
M-08	MECHANICAL DETAILS WATER COLLECTOR & ELECTRIC WATER HEATER
M-09	MECHANICAL DETAILS WASH BASIN DETAILS WHITE ORIENTAL & FLOOR MOUNTED W.C
M-10	MECHANICAL DETAILS PIPE BRANCH & FLOOR DRAIN CONNECTION

Notes:
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-DIMENSIONS SHOULD NOT BE SCALED OUT
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DESIGN DRAWINGS

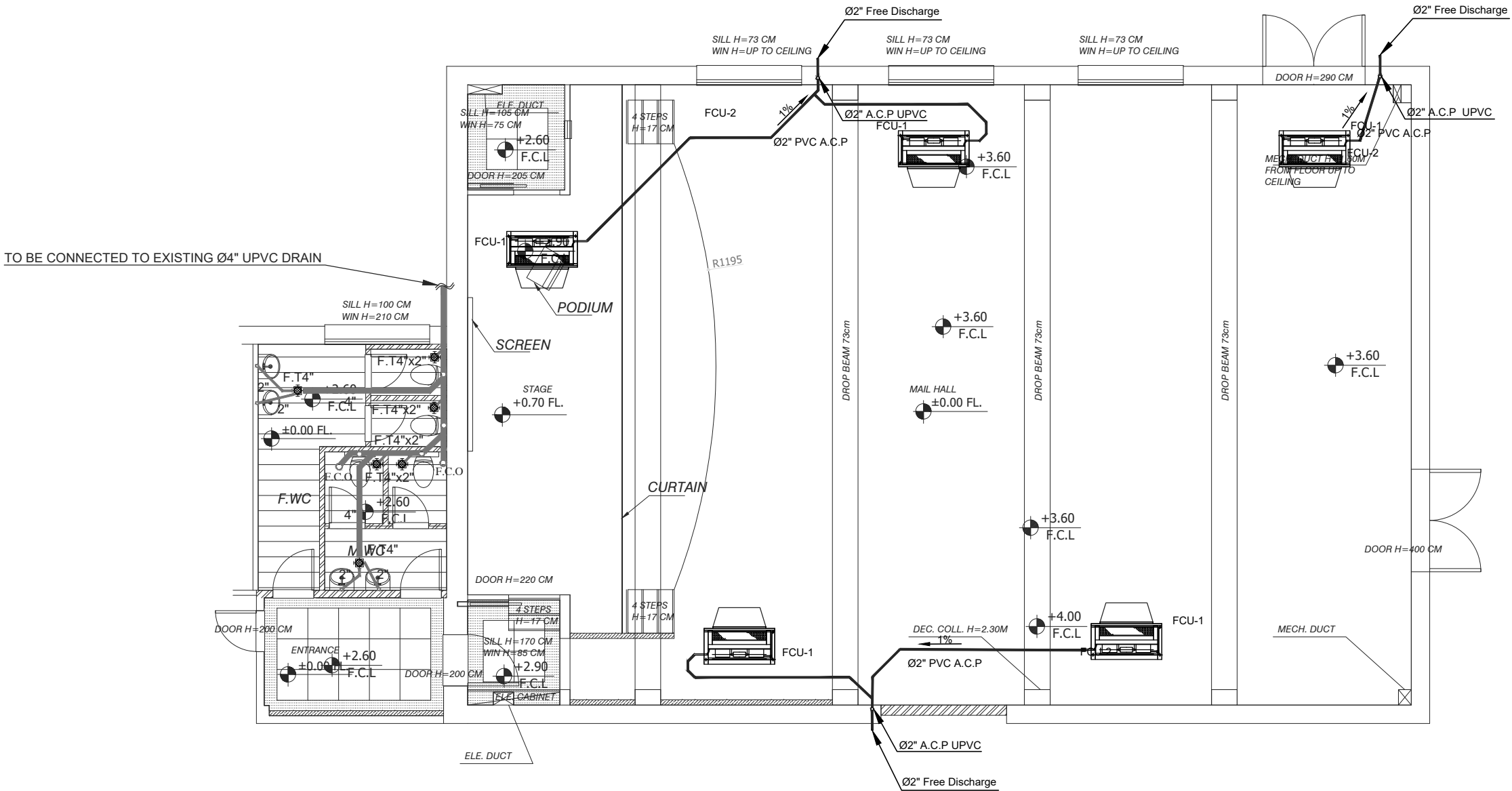
Project Name:

**DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title

**GENERAL NOTES, LEGENDS,
& DRAWINGS LIST**

Prepared by	Diyar Consultants Co.	Scale 1:100
Date	Feb,2025	Sheet No. M00



NOTES:

NOTES 1: FOR VRF & AC SYSTEM CONDENSATE PIPE: ALL PIPES ARE Ø2" UPVC AC CONDENSATE PIPE (PN 10) AT HIGH LEVEL-ABOVE FALSE CEILING WITH SLOPE 1% FREE DISCHARGE OUT SIDE

Notes:
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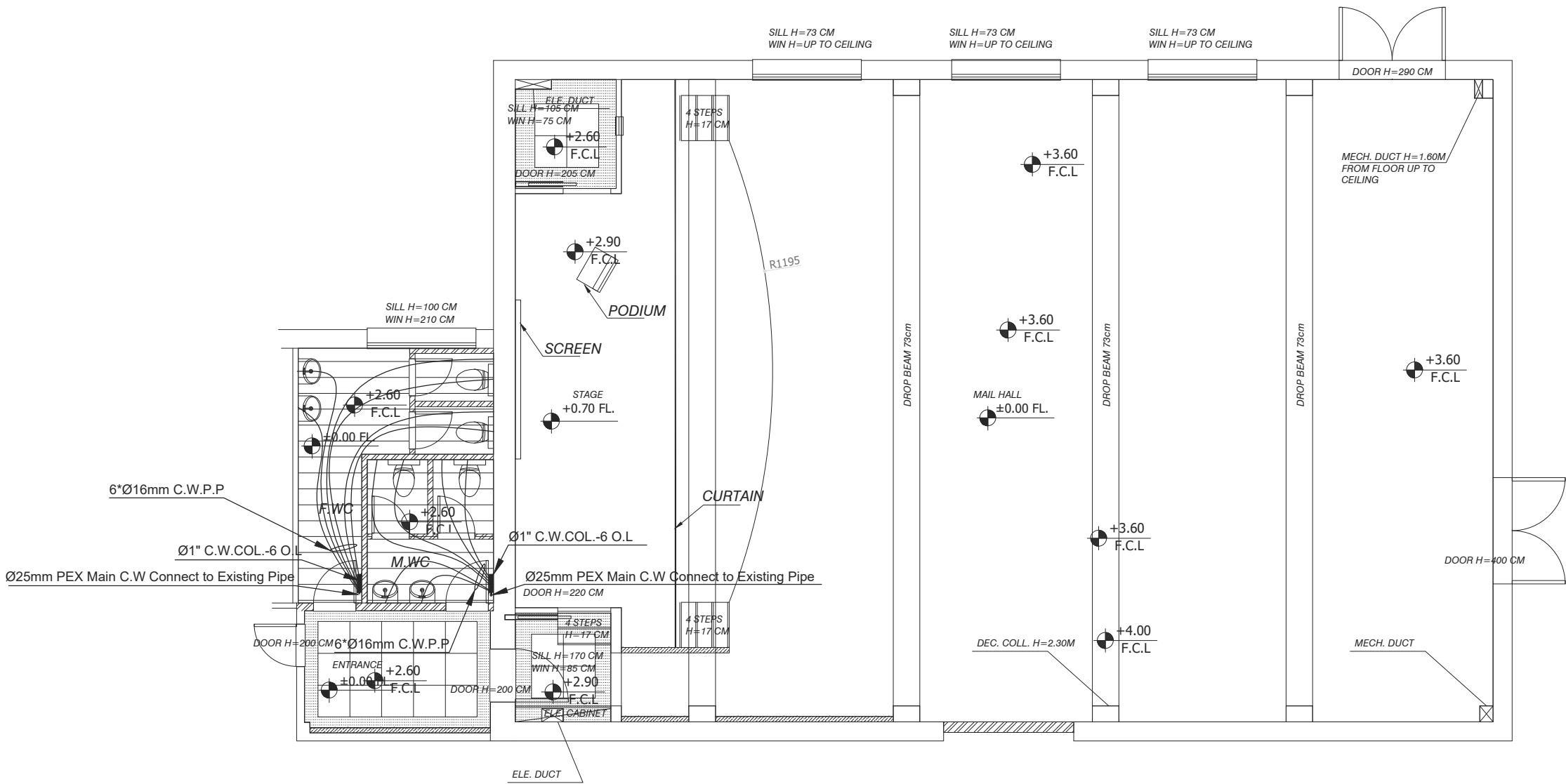
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Project Name:

**DESIGN AND SUPERVISION
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REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title
**PROPOSED GROUND FLOOR PLAN
- UNDERGROUND DRAIN LAYOUT -**

Prepared by	Diyar Consultants Co.	Scale
		1:100
Date	Feb,2025	Sheet No. M01



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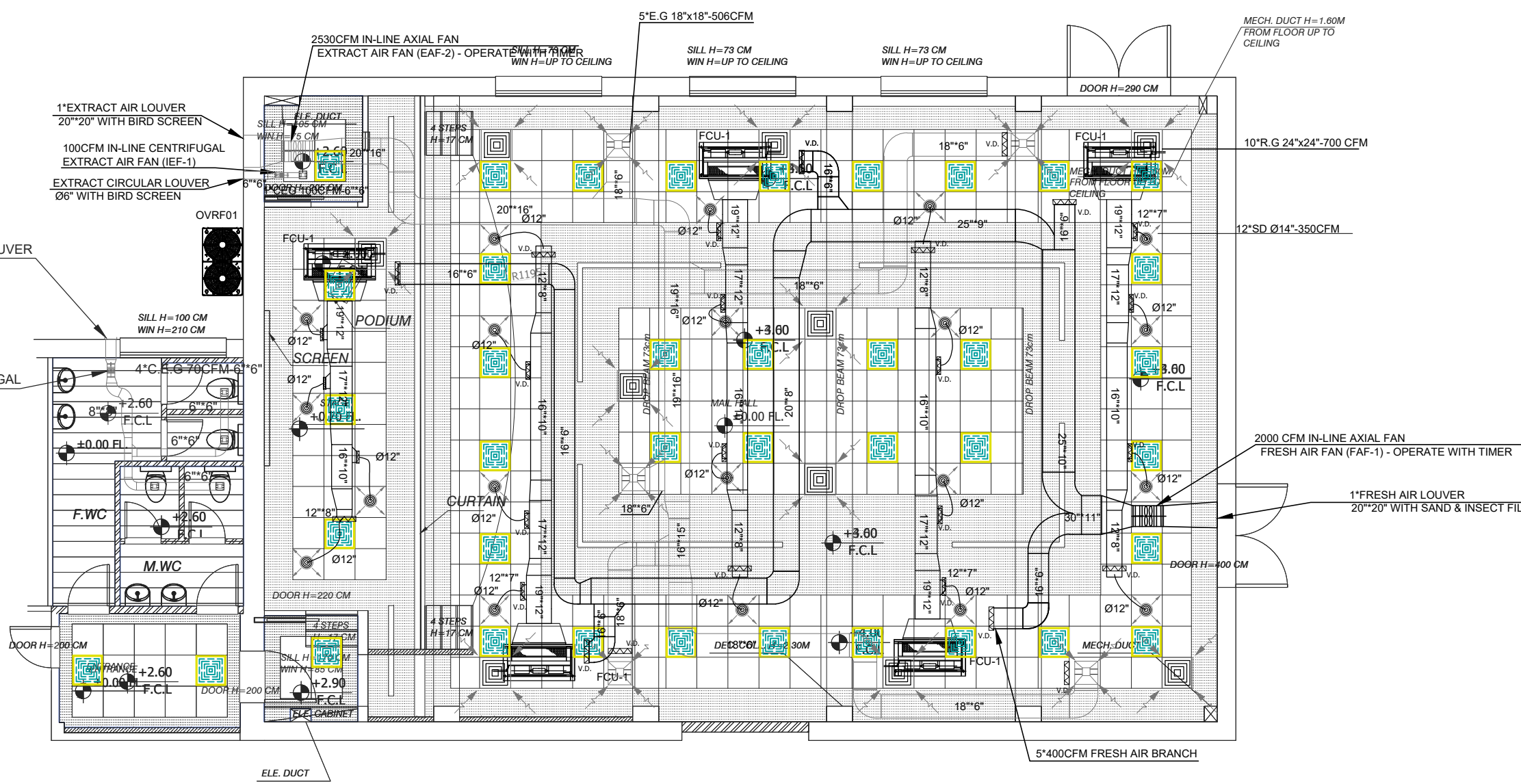
DESIGN DRAWINGS

Project Name:

**DESIGN AND SUPERVISION
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REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

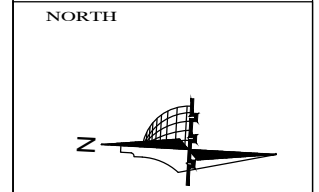
Drawing Title
**PROPOSED GROUND FLOOR PLAN
- WATER SUPPLY LAYOUT -**

Prepared by	Diyar Consultants Co.	Scale
		1:100
Date	Feb,2025	Sheet No.
		M02



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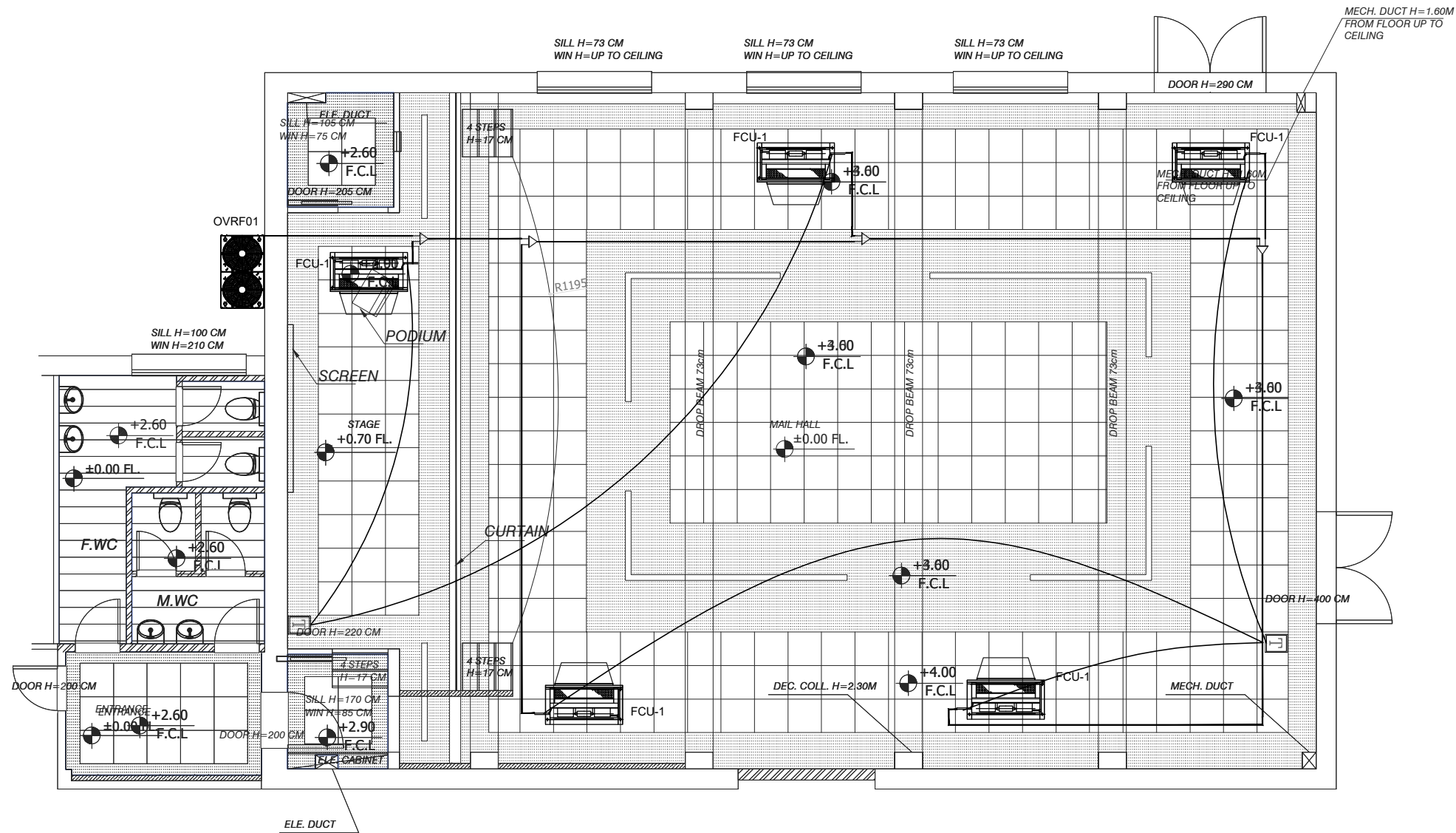


DESIGN DRAWINGS

Project Name:
**DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title
**PROPOSED GROUND FLOOR PLAN
- HVAC LAYOUT -**

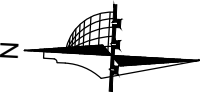
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**DESIGN AND SUPERVISION
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AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title
**PROPOSED GROUND FLOOR PLAN
-AC GAS PIPING & THERMOSTAT LAYOUT-**

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		1:100
Date	Feb,2025	Sheet No. M04

SPLIT UNIT / FAN COIL VRF INDOOR UNITS SCHEDULE															
GROUND FLOOR															
INDOOR UNIT NO.	INDOOR UNIT TYPE	TOTAL COOLING LOAD (KW)	TOTAL COOLING LOAD (Ton)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (PA)	ELECTRIC DATA				ENTERING AIR TEMP.		LEAVING AIR TEMP.		QUANTITY
							POWER (W)	VOLTS (V)	Ø	HZ	DB C°	WB C°	DB C°	WB C°	
FCU-1	CONCEALED CEILING MOUNTED PLENUM, DUCTED	13.0	3.71	11	1400	150	485	220	1	50	25.8	16.5	12.5	11.5	5
ALL INDOOR UNITS SHOULD BE SELECTED AT NOMINAL SPEED															
VRF INDOOR & OUTDOOR UNITS SHALL BE CORRECTED (SELECTION) ACCORDING TO THE DESIGN CONDITIONS AS BELOW:					IN COOLING: INDOOR TEMPERATURE 23°C & OUTDOOR TEMPERATURE 35°C & HUMIDITY RATIO 50%										
					IN HEATING: INDOOR TEMPERATURE 22°C & OUTDOOR TEMPERATURE 0°C & HUMIDITY RATIO 85%										


HEAT PUMP VRF OUTDOOR UNIT SCHEDULE						
NAME	QTY	COOLING LOAD (Kw)	HEATING LOAD (Kw)	ESTIMATED INPUT POWER (kW)	Elec. Details V/Hz/Ph	SERVED AREA
OVRF01	1	66.0	58.0	35	400/50/3	GROUND FLOOR STAGE AREA

FANS SCHEDULE - IN-LINE TYPE											
FAN DESIGN	SERVED AREA	SYSTEM	AIR FLOW (CFM)	ESTM. EXT. TOTAL SP (INCH OF WATER)	MOTOR DATA					TYPE	QUANTITY
					(RPM)	POWER (KW)	VOLTS (V)	Ø	HZ		
EAF-1	TOILETS	DIRTY EXTRACT	280	0.40	2400	0.18	230	1	50	IN-LINE AXIAL FAN IN PLASTIC & OPERATE BY TIMER	1
EAF-2	MAIN HALL STAGE	EXTRACT	2530	0.80	1500	2.50	380-415	3	50	IN-LINE AXIAL FAN IN METAL & OPERATE BY TIMER	1
FAF-1	MAIN HALL STAGE	FRESH AIR	2000	0.80	2400	2.00	380-415	3	50	IN-LINE CENTRIFUGAL FAN IN METAL OPERATE BY TIMER	1

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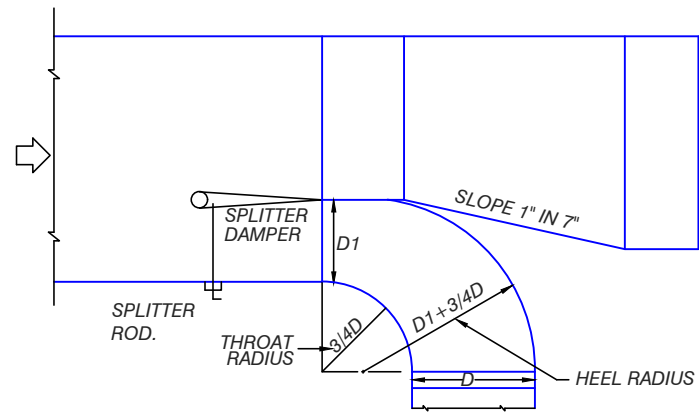
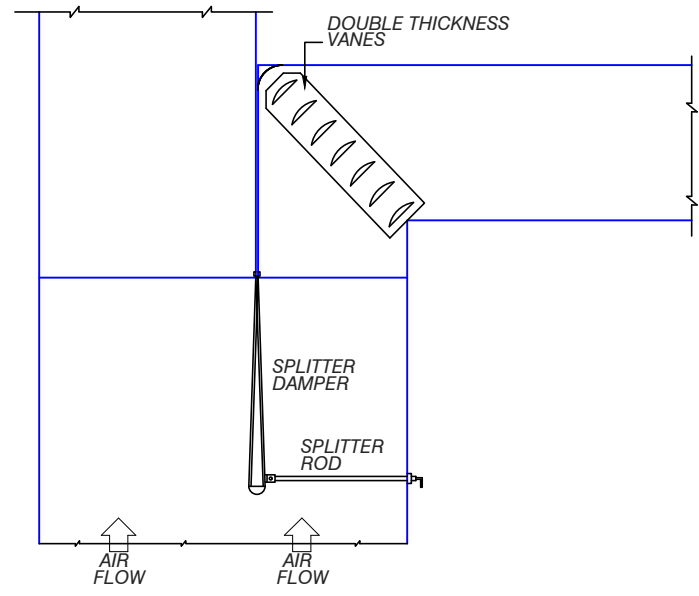
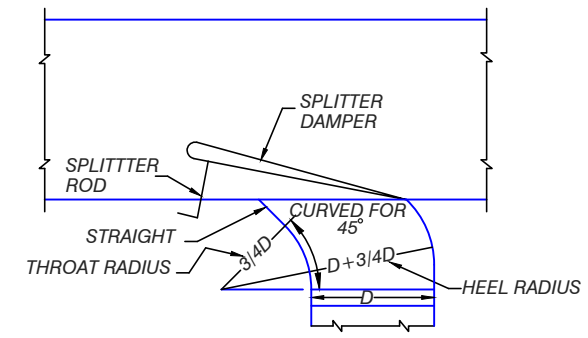
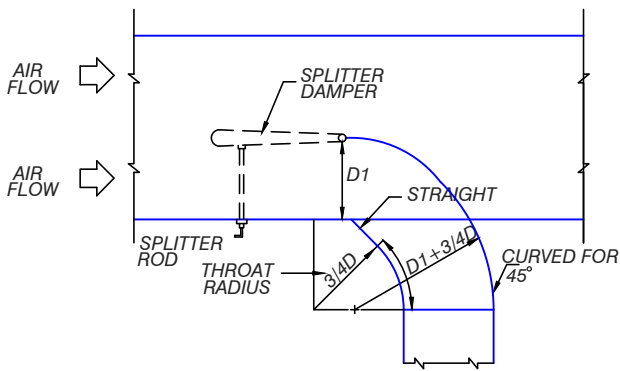
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DESIGN DRAWINGS

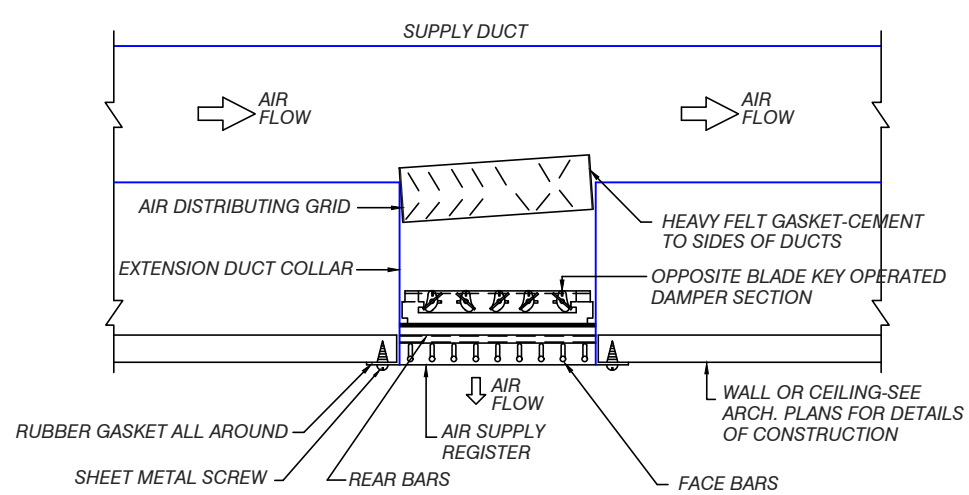
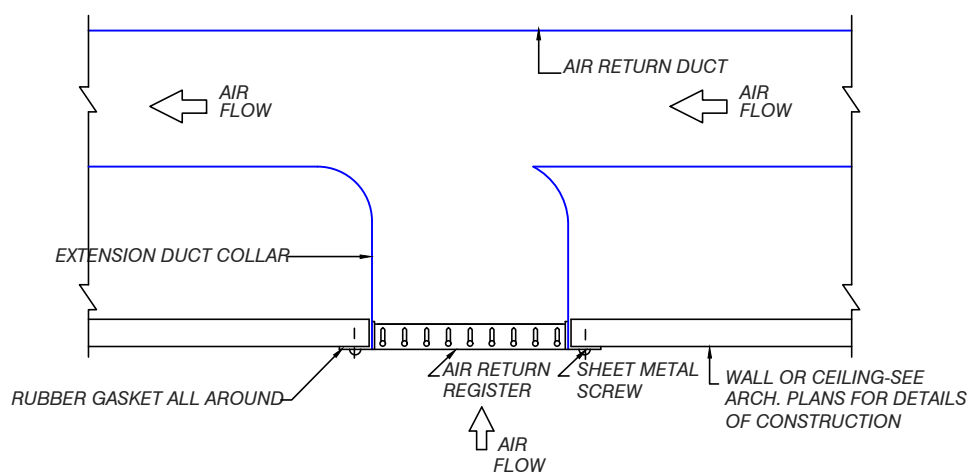
Project Name:
DESIGN AND SUPERVISION CONSULTANCY FOR REHABILITATION WORKS AT AL-BEIRUNI SECONDARY BOYS SCHOOL IN AL-RAM

Drawing Title
-MECHANICAL SCHEDULE 1-

Prepared by	Diyar Consultants Co.	Scale 1:100
Date	Feb,2025	Sheet No. M05



TYPICAL TAKE-OFFS



RETURN AIR REGISTER

SUPPLY AIR REGISTER

DETAILS OF THE INSTALLATION OF AIR REGISTERS AND DIFFUSERS

Notes:
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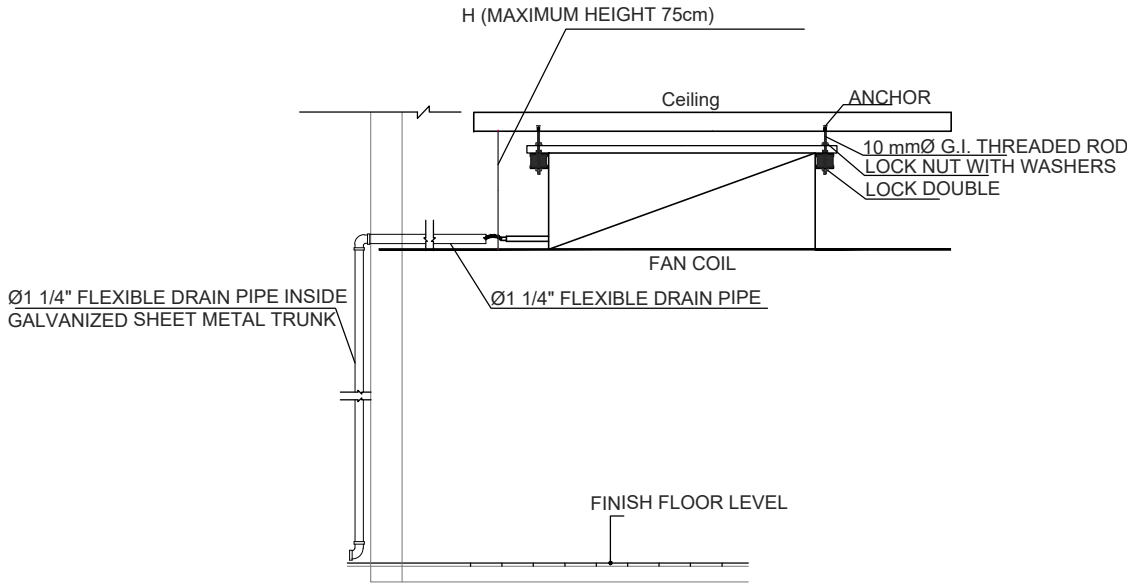
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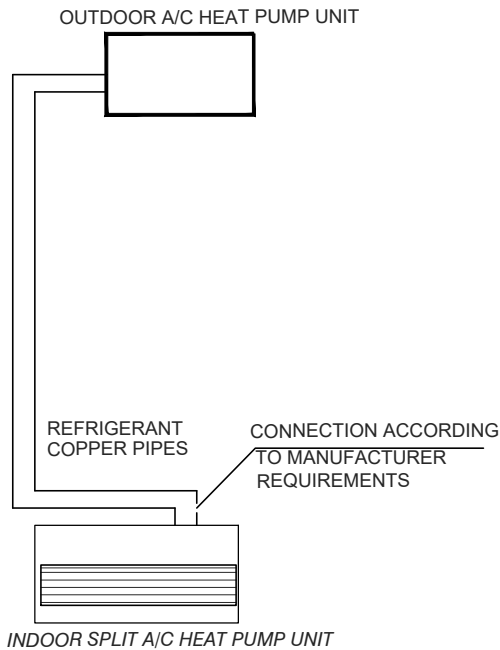
DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title
MECHANICAL DETAILS
DUCT DETAILS - 1

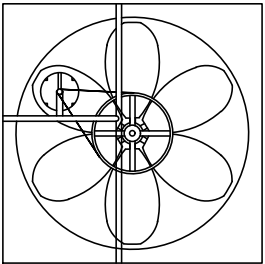
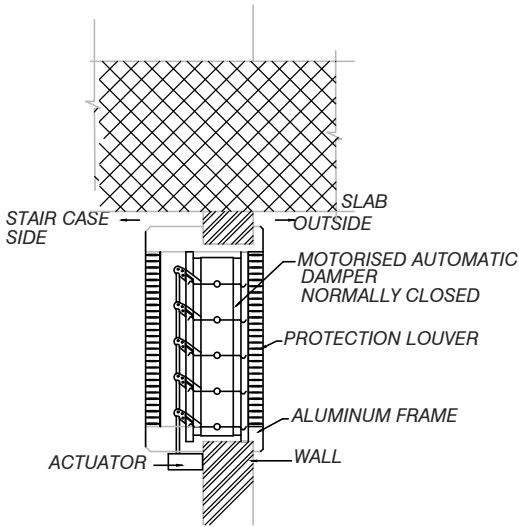
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Date	Feb,2025	Sheet No.	M06



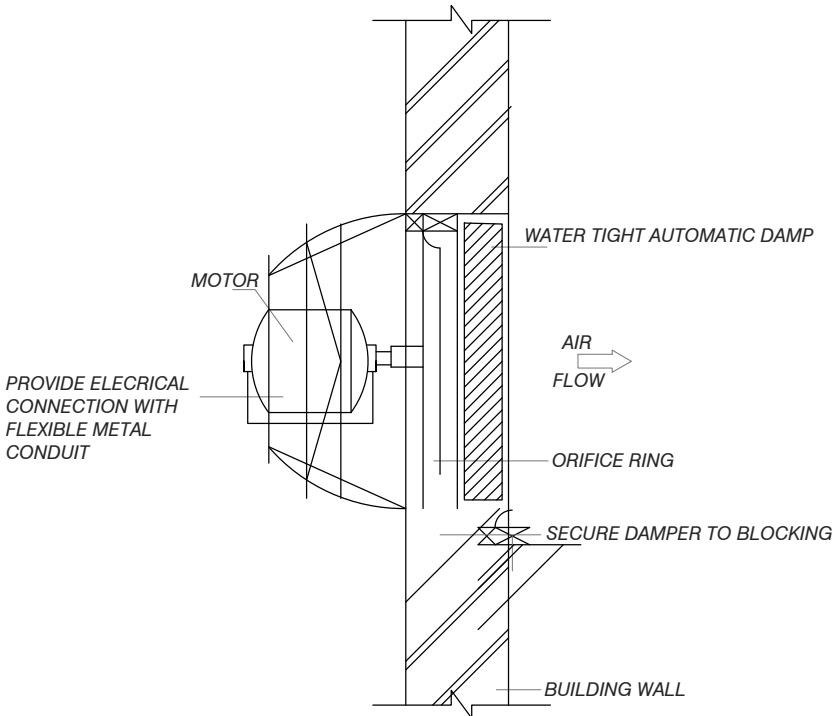
A/C DRAINAGE LAYOUT DETAIL



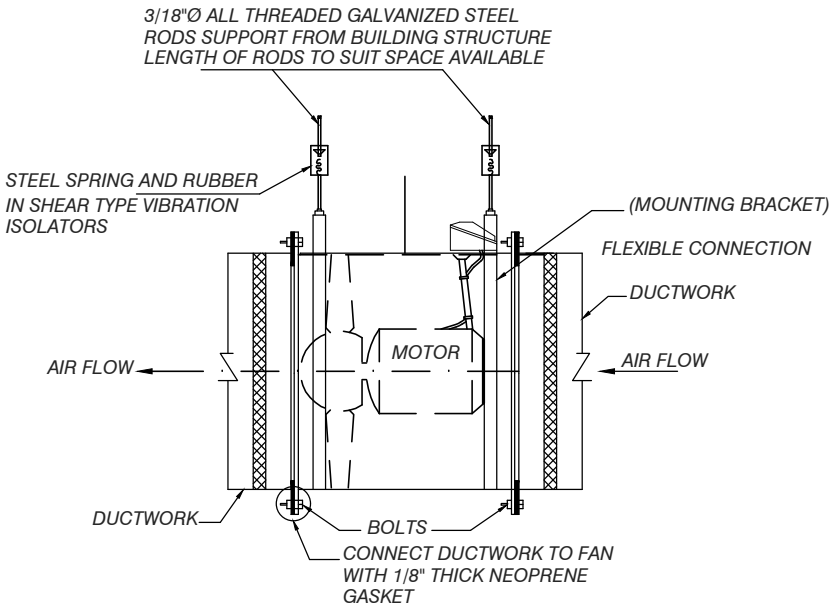
A/C SPLIT HEAT PUMP INVERTER UNIT DIAGRAM



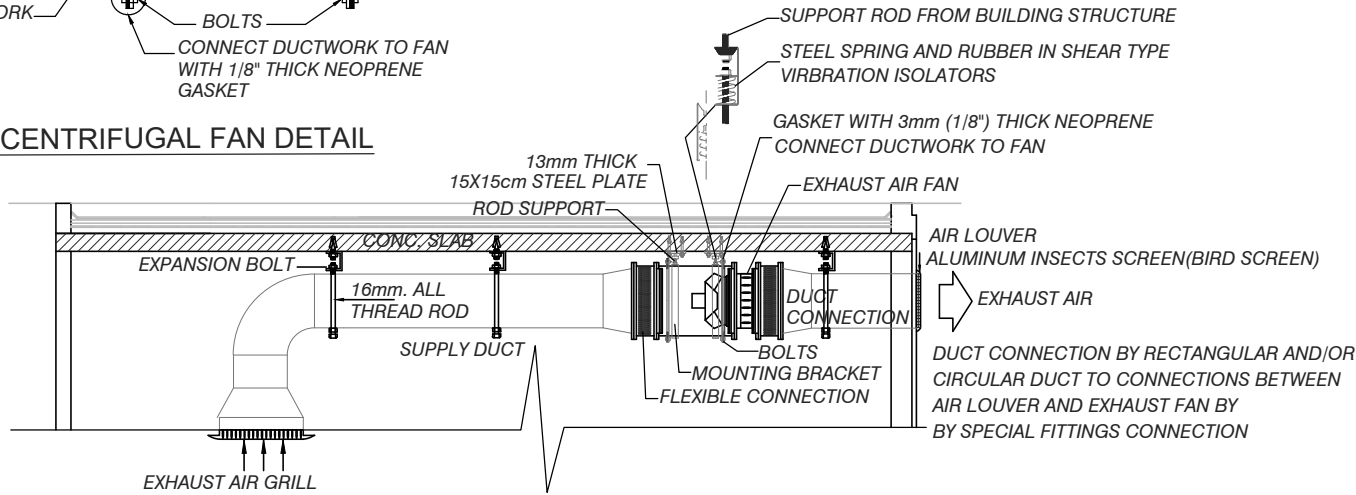
TYPICAL PROPELLER FAN DETAIL



DETAILS OF THE INSTALLATION OF EXTRACT FAN



CENTRIFUGAL FAN DETAIL



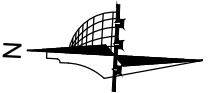
IN-LINE EXHAUST AIR FAN WITH DUCTET CONNECTION

& TYPICAL FOR IN LINE FRESH AIR FAN

Notes:
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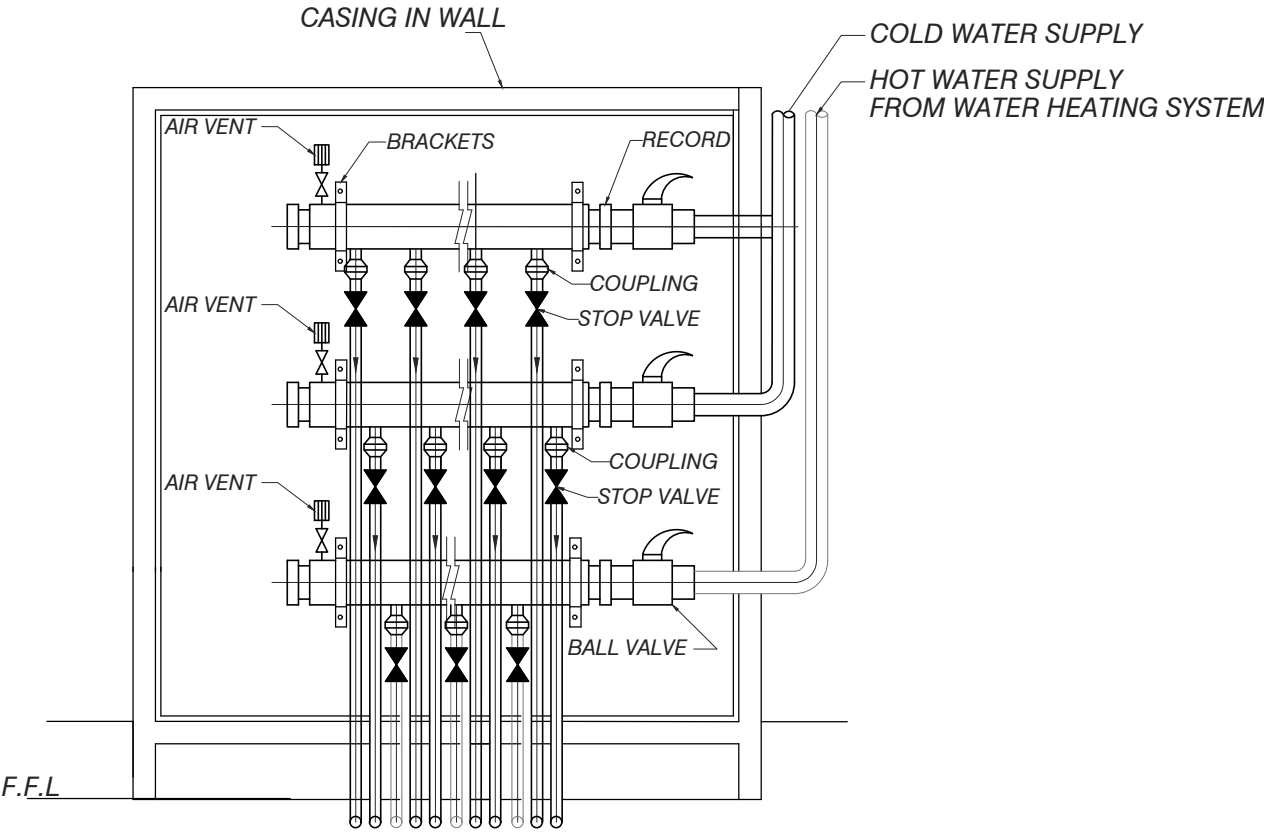
DESIGN DRAWINGS

Project Name:

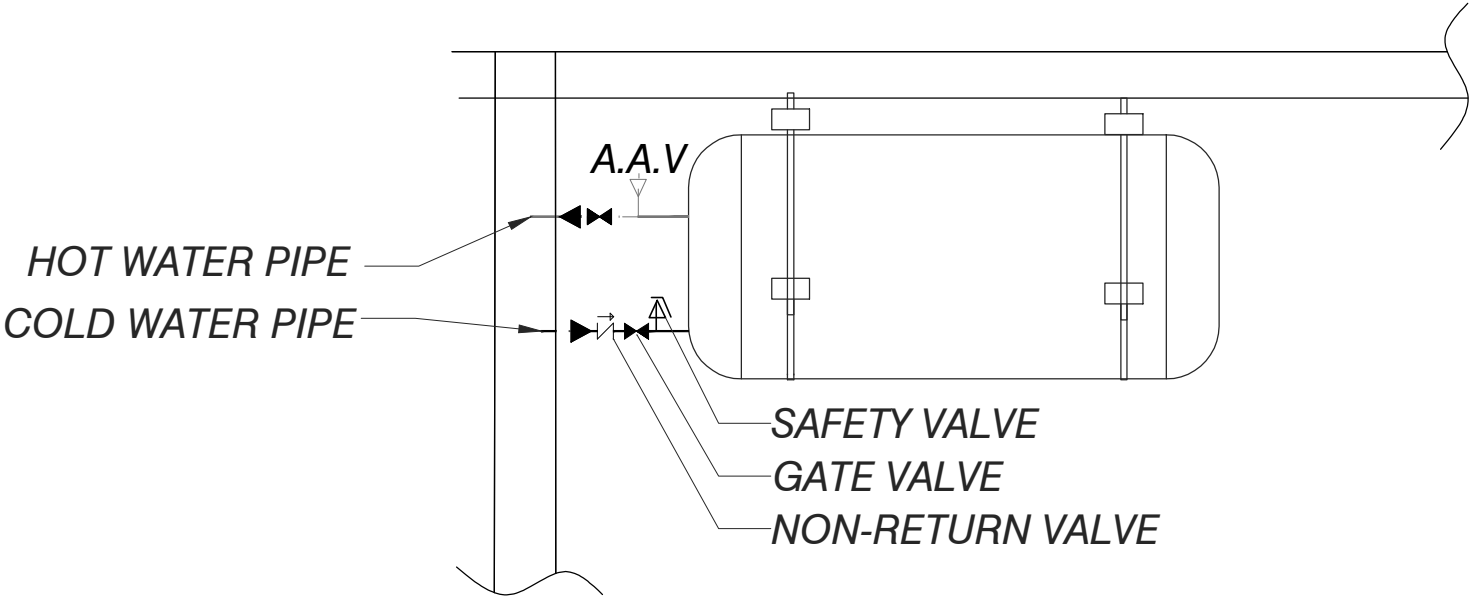
**DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title
**MECHANICAL DETAILS
A/C SPLIT UNIT & FAN DETAILS**

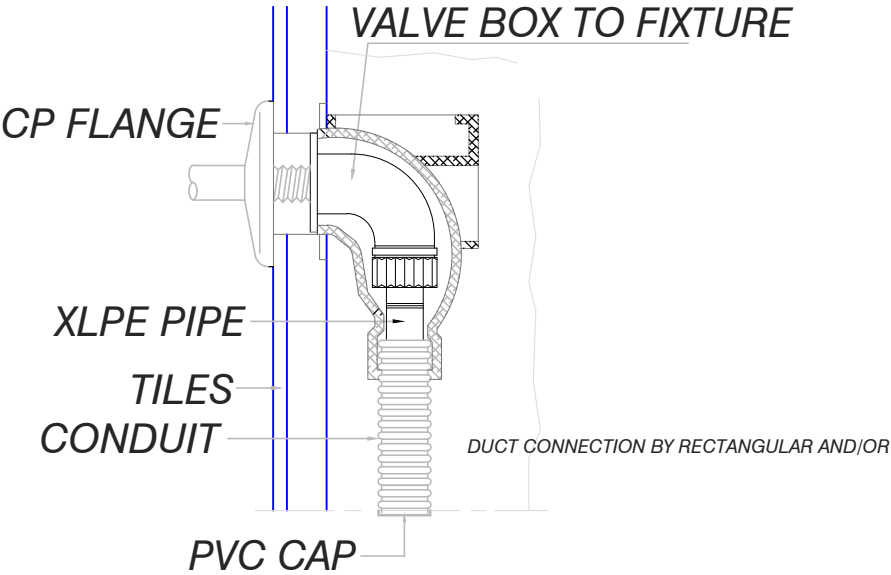
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Date	Feb,2025	Sheet No.	M07



**TYPICAL WATER CABINET
HOT & COLD WATER COLLECTORS
AND METAL CABINET DOOR WITH DOUBLE DOORS**



ELECTRIC WATER HEATER CONNECTION DETAIL



ANGLE VALVE BOX PEX PIPE APPLICATION

Notes:
-ALL DIMENSIONS ARE IN CM.UNLESS NOTED OTHERWISE
-DIMENSIONS SHOULD NOT BE SCALED OUT
-ALL LEVELS ARE IN M. UNLESS NOTED OTHERWISE

Legend:

NORTH

REV.	DATE	DESCRIPTION
1	MAY ,19	REVISED AS PER COMMENTS
2		
3		

MINISTRY OF EDUCATION
MOE

Funded by:

Architectural & Engineering Firm:

شركة الديار للاستشارات الهندسية
Tel: (+972-2) 2961565 Fax: (+972-2) 2961566
E-mail: diyar@diyar-consultants.com P.O.BOX 1065, Ramallah, Palestine
رام الله - خلف مجمع الشفاء الطبي

DESIGN DRAWINGS

Project Name:

DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title

MECHANICAL DETAILS
WATER COLLECTOR
& ELECTRIC WATER HEATER

Prepared by

Diyar Consultants Co.

Scale

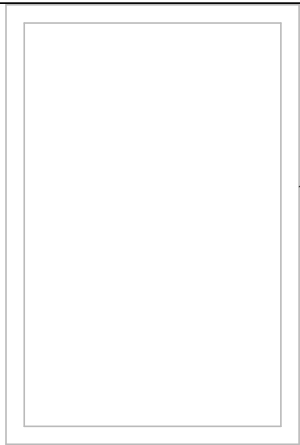
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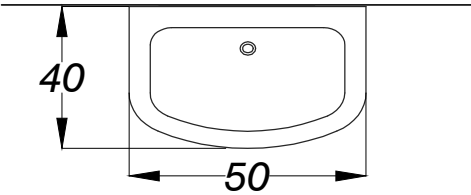
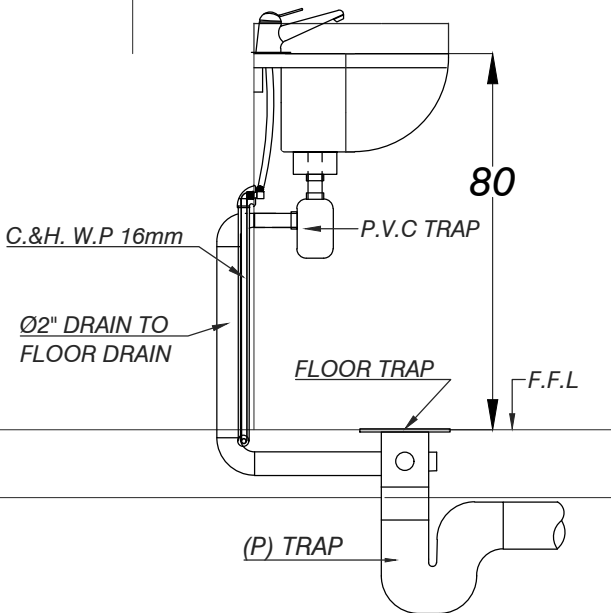
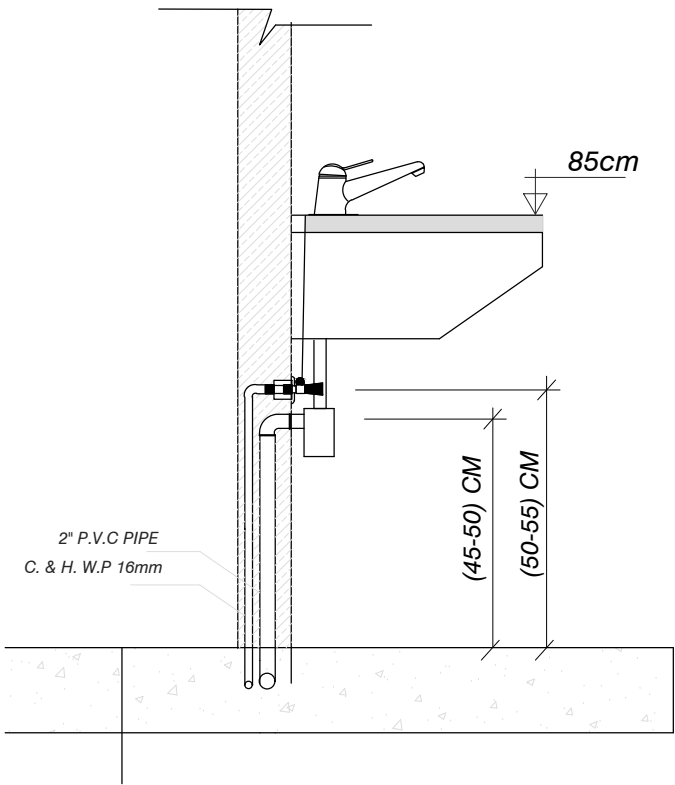
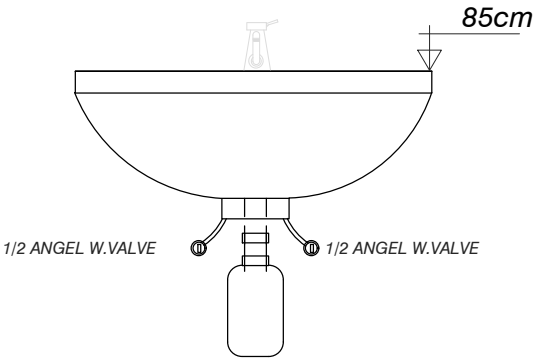
Feb,2025

Sheet No.

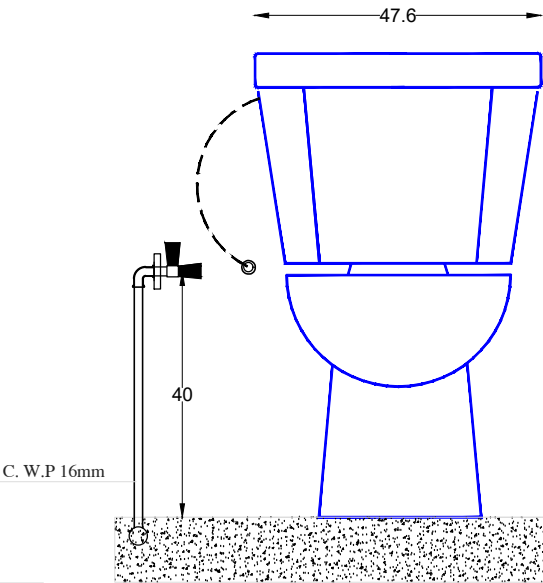
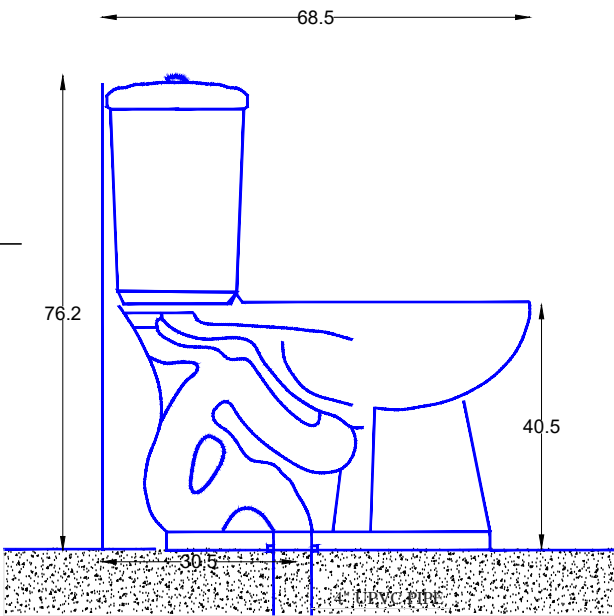
M08



Mirror 40x60cm with
white Aluminum Frame



WASH BASIN WITH MIXER



Notes:
-ALL DIMENSIONS ARE IN CM.UNLESS NOTED OTHERWISE
-DIMENSIONS SHOULD NOT BE SCALED OUT
-ALL LEVELS ARE IN M. UNLESS NOTED OTHERWISE

Legend:

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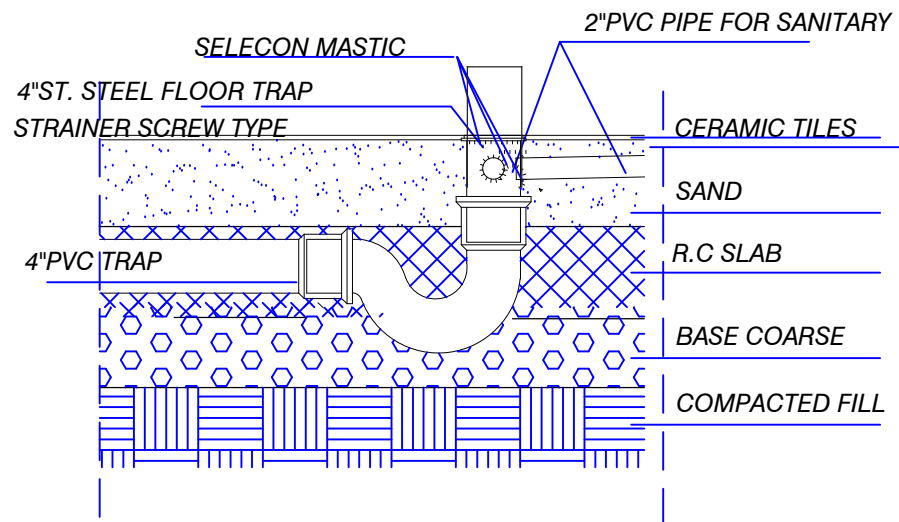
DESIGN DRAWINGS

Project Name:

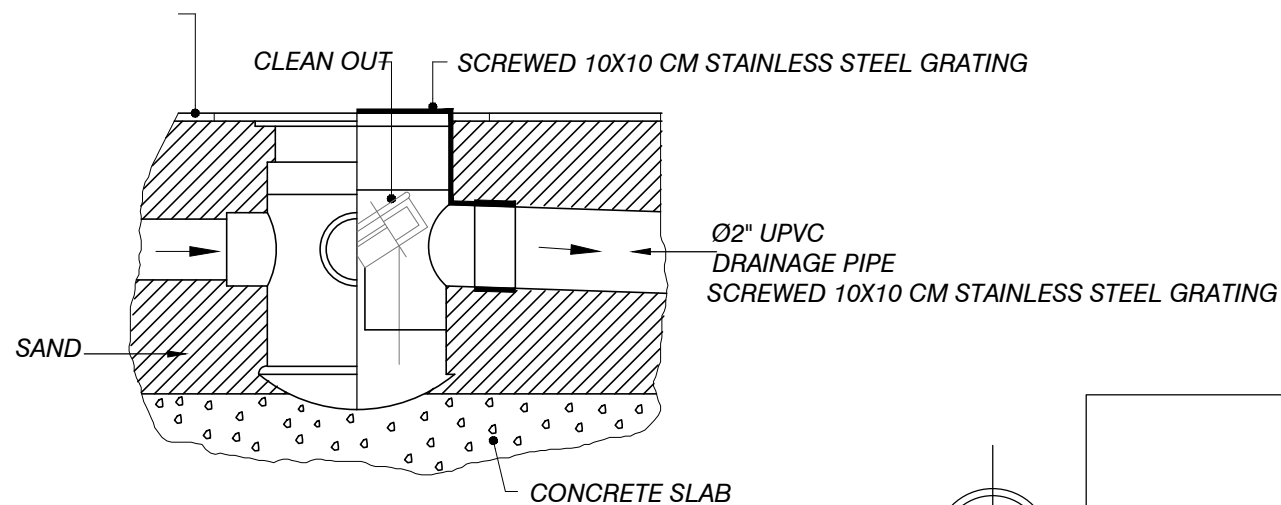
DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM

Drawing Title
MECHANICAL DETAILS
WASH BASIN DETAILS WHITE ORIENTAL & FLOOR
MOUNTED W.C

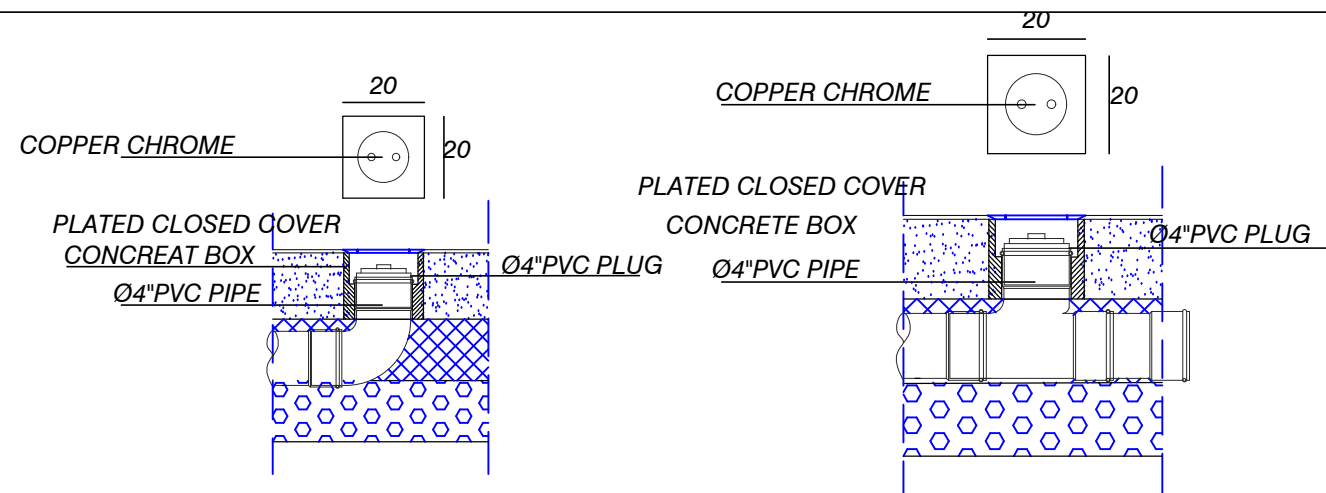
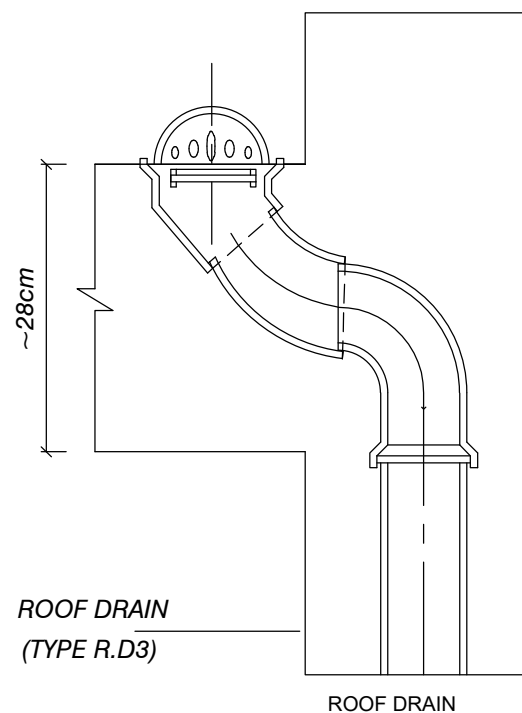
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Date	Feb,2025	Sheet No.	M09



FLOOR TRAP 4/4"DETAIL
SCALE 1:20

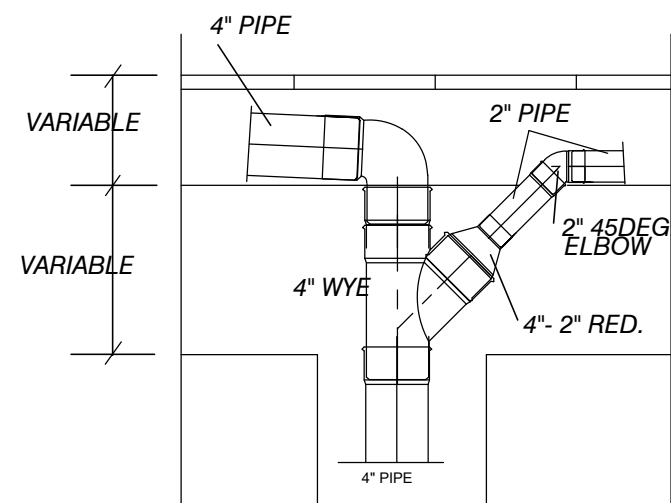
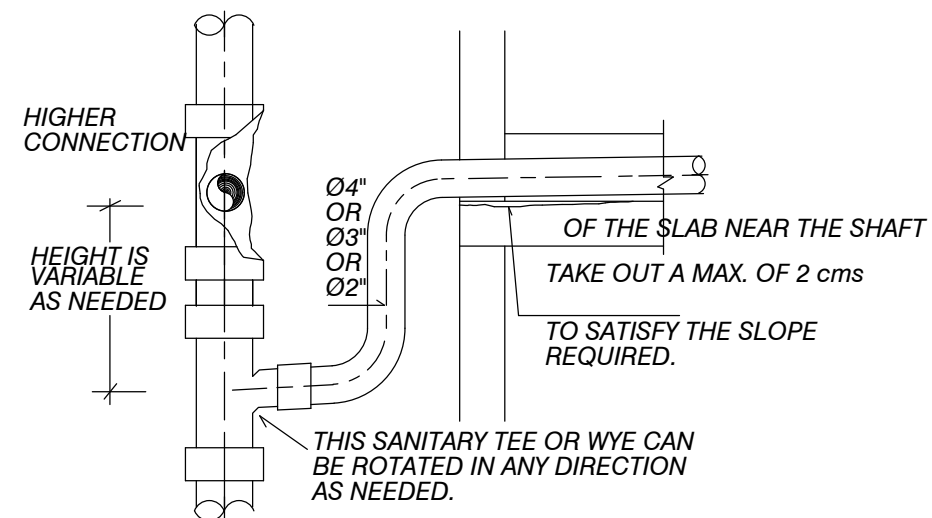


FLOOR DRAIN (F.D.)



FLOOR CLEANING
OPENING
SCALE 1:10

FLOOR CLEANING
OPENING TEE
SCALE 1:10



INSTALLATION OF PVC PIPE
THROUGH SLAB AND WALL

Notes:
-ALL DIMENSIONS ARE IN CM.UNLESS NOTED OTHERWISE
-DIMENSIONS SHOULD NOT BE SCALED OUT
-ALL LEVELS ARE IN M. UNLESS NOTED OTHERWISE

Legend:

NORTH



REV.	DATE	DESCRIPTION
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MOE

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Architectural & Engineering Firm:

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DESIGN DRAWINGS

Project Name:

**DESIGN AND SUPERVISION
CONSULTANCY FOR
REHABILITATION WORKS AT
AL-BEIRUNI SECONDARY BOYS
SCHOOL IN AL-RAM**

Drawing Title
MECHANICAL DETAILS
PIPE BRANCH & FLOOR DRAIN CONNECTION

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Date	Feb,2025	Sheet No.	M10