

APRIL 2015



SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN (SECP)

COMPANY REGISTRATION OFFICE (RENOVATION OF CRO OFFICE 1st FLOOR)

TENDER DRAWING SET
(INTERIOR , ELECTRICAL & HVAC)



CONSULTANT:

FORENSIC DESIGN

Office # 14-D, REHMAT PLAZA,
BLUE AREA ,
ISLAMABAD-Pakistan
Tel: +92-51-2275425,
Fax: +92-51-2271297
Web Site: www.foresenicdesign.com
E-Mail: info@foresenicdesign.com

LIST OF DRAWINGS



S/NO	DRG/NO	DESCRIPTION	S/NO	DRG/NO	DESCRIPTION	S/NO	DRW/NO	DESCRIPTION
01	A-100	LIST OF DRAWING ✓						
INTERIOR DRAWINGS								
02	A-101	FURNITURE LAYOUT PLAN (Part-01 & Part-02) ✓						
03	A-102	DISMANTLING LAYOUT PLAN (Part-01 & Part-02) ✓						
04	A-103	PARTITION WORKING PLAN (Part-01 & Part-02) ✓						
05	A-104	FULL HEIGHT MDF PARTITION DETAIL (Part-01) ✓						
06	A-105	FULL HEIGHT MDF PARTITION WITH 8mm Th: GLASS DETAIL (Part-01) ✓						
07	A-106	TYPICAL DOOR DETAIL (Part-01 & Part-02) ✓						
08	A-107	FLOORING LAYOUT PLAN (Part-01 & Part-02) ✓						
09	A-108	CEILING LAYOUT PLAN (Part-01 & Part-02) ✓						
ELECTRICAL DRAWINGS								
10	E-101	LEGENDS. (ELECTRICAL) ✓						
11	E-102	GENERAL NOTES (ELECTRICAL) ✓						
12	E-103	GENERAL NOTES (ELECTRICAL) ✓						
13	E-104	LIGHT LAYOUT PLAN (Part-01 & Part-02) ✓						
14	E-105	POWER , VOICE & DATA LAYOUT PLAN (Part-01 & Part-02) ✓						
HVAC DRAWINGS								
15	H-101	HVAC LAYOUT PLAN (Part-01 & Part-02) ✓						
16	H-102	GENERAL NOTES & TYPICAL OUTDOOR UNIT ✓						



Client :

GENERAL NOTES :

1. THIS DRAWING IS NOT TO BE SCALED, STATED DIMENSIONS ARE ONLY TO BE CONSIDERED

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5. THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, CONDITIONS OF CONTRACT ETC

6. CONTRACTOR SHOULD CO-ORDINATE ALL WORKS WITH THE STRUCTURAL, MEP ETC DRAWINGS

7. THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF FORESENIC DESIGN.


8. LARGER SCALE DRAWING WILL SUPERSEDE SMALLER SCALE DRAWING.

Rev	Description	Date
A		00-00-00
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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
PH: 051 2275425, FAX: 051 2271279.
Email: info@forensicedesign.com

Project: SECP
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: TENDER DRAWINGS

Drawing: LIST OF DRAWING

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number: A - 100

APRIL 2015

SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN (SECP)

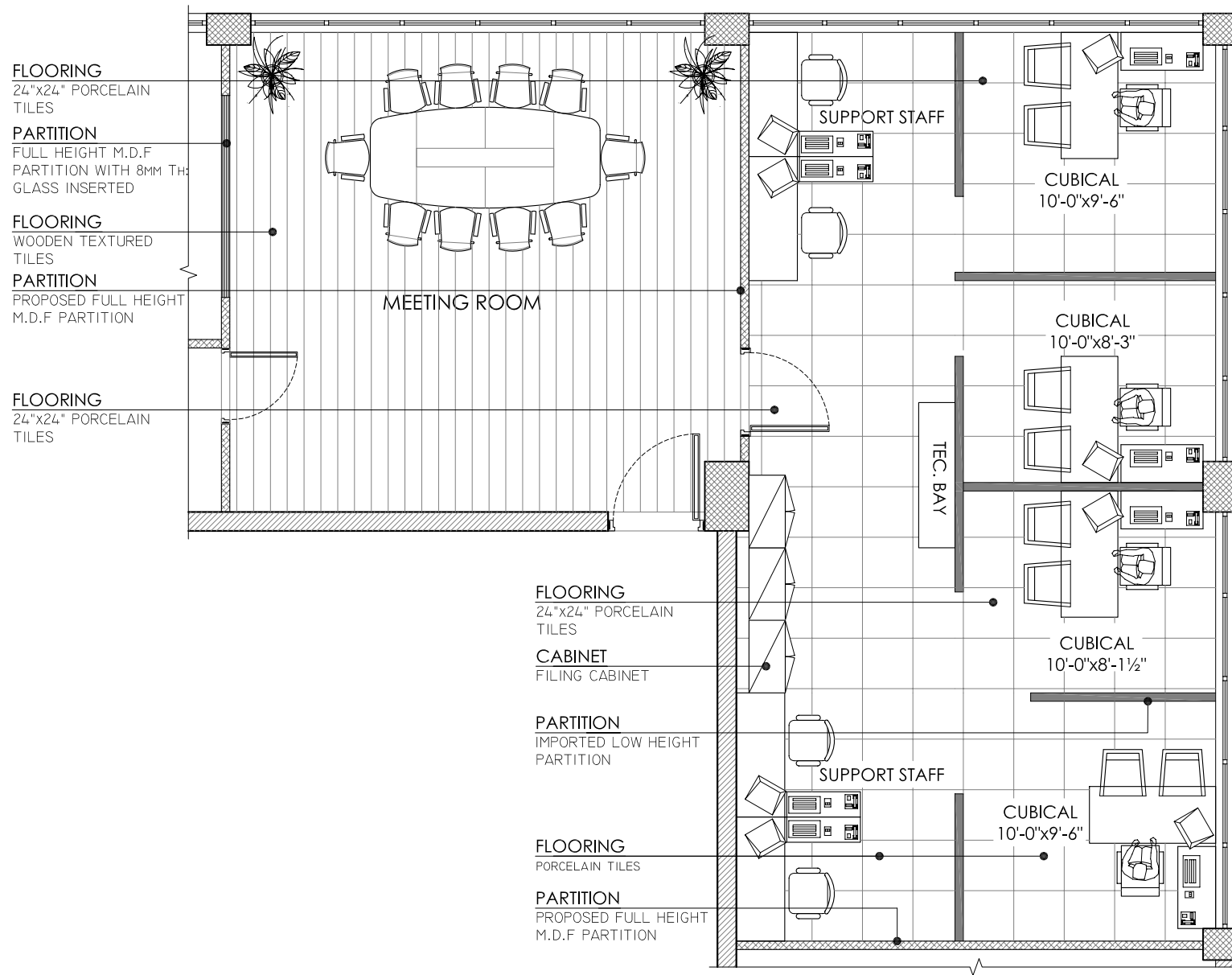
TENDER DRAWING SET (INTERIOR)



CONSULTANT:

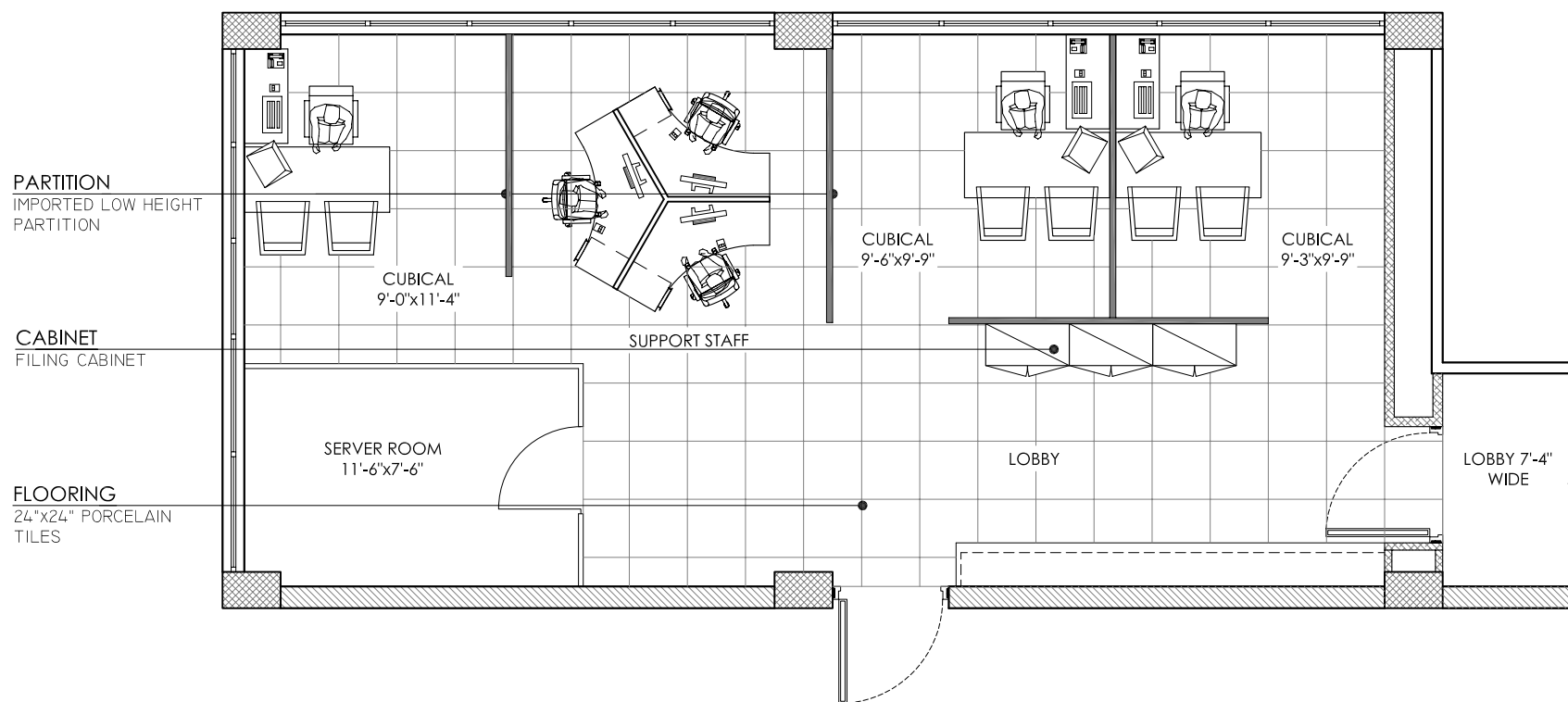
FORESENIC DESIGN

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FORESENIC DESIGNS
FURNITURE LAYOUT PLAN (Part - 01)

SECP OFFICE IN ISLAMABAD.
PRELIMINARY CONCEPTUAL DESIGN LAYOUT.



FORESENIC DESIGNS
FURNITURE LAYOUT PLAN (Part - 02)

SECP OFFICE IN ISLAMABAD.
PRELIMINARY CONCEPTUAL DESIGN LAYOUT.



Client :

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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



**FORESENIC
DESIGNS**

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
PH: 051 2275425, FAX: 051 2271279.
Email: info@forensicedesign.com

Project:	SECP (DIRECTOR GENERAL OF TRADE ORGANIZATION)	
Project Status:	TENDER DRAWINGS	
Drawing:	FURNITURE LAYOUT PLAN (Part-01 & Part-02)	
Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan	
Drawn: Mubasher Nazir	Scale: N.T.S	
Project Number: ID - 050	Rev: 0	
Drawing Number: A - 101		



Client :

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Email: info@forensicedesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **DISMANTLING LAYOUT PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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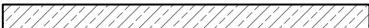
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LEGENDS

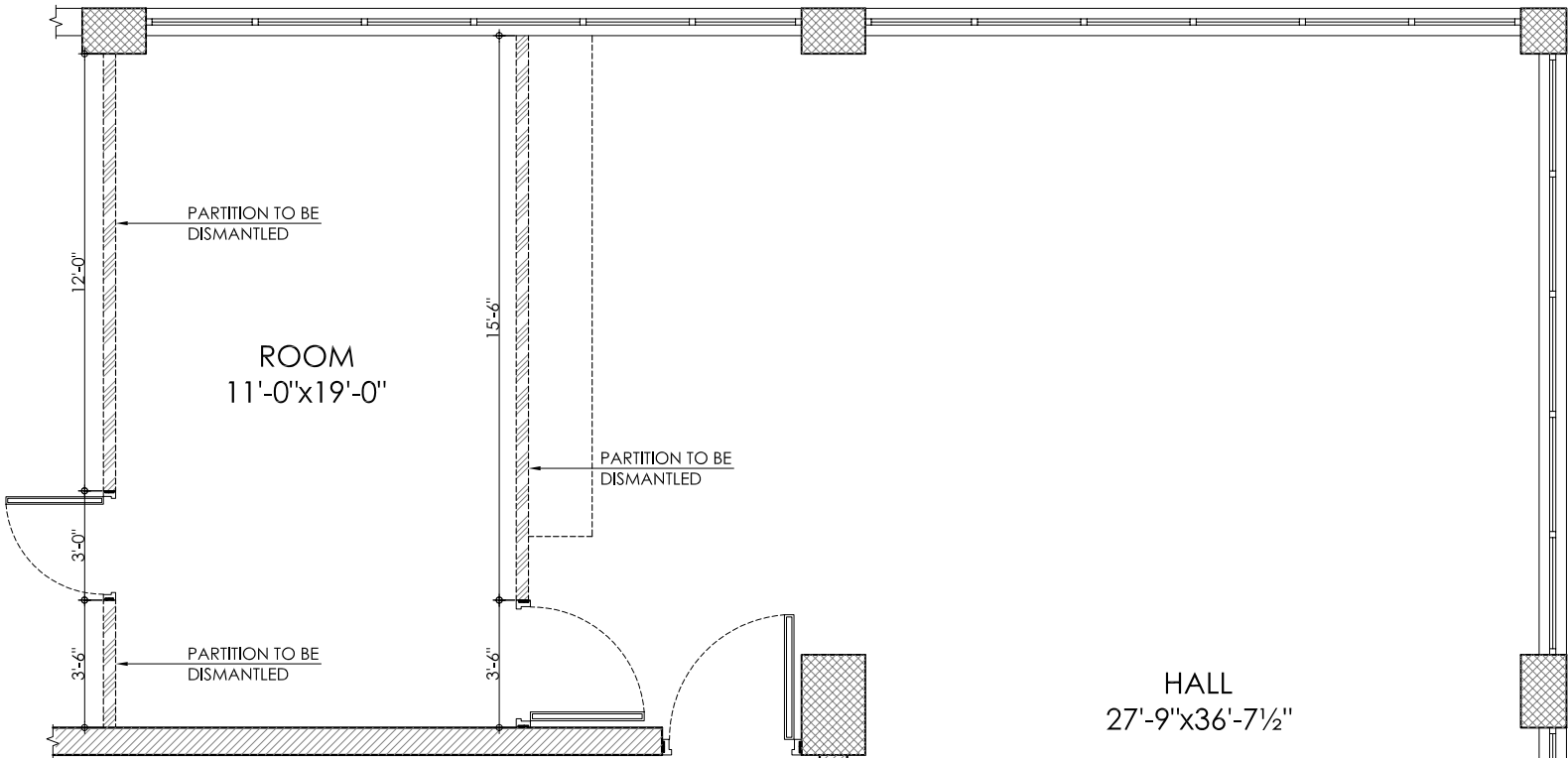
EXISTING FULL HEIGHT PARTITION



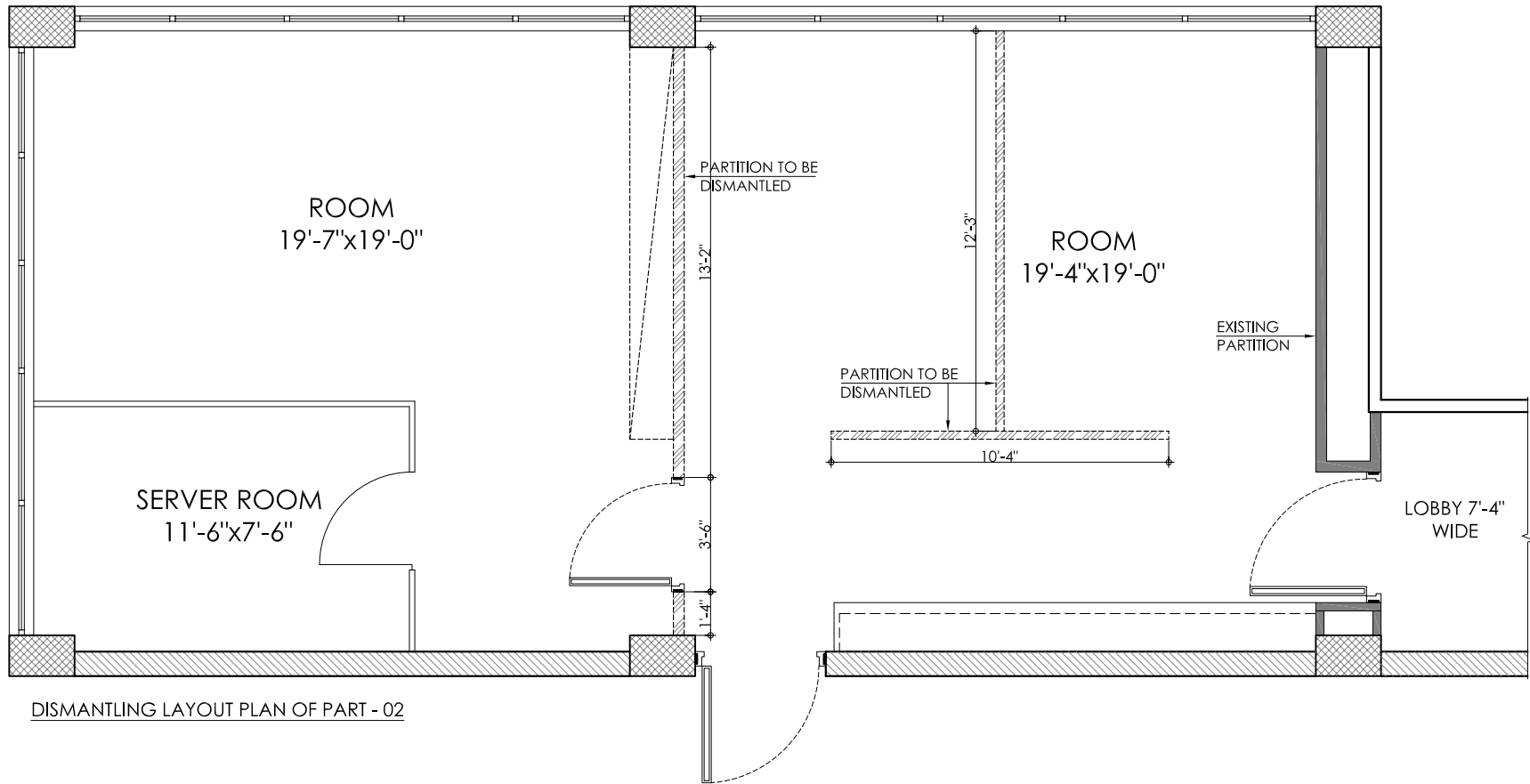
EXISTING LOW HEIGHT PARTITION



DISMANTLED PARTITION



DISMANTLING LAYOUT PLAN OF
PART - 01



DISMANTLING LAYOUT PLAN OF PART - 02



Client :

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Project Status: **TENDER DRAWINGS**

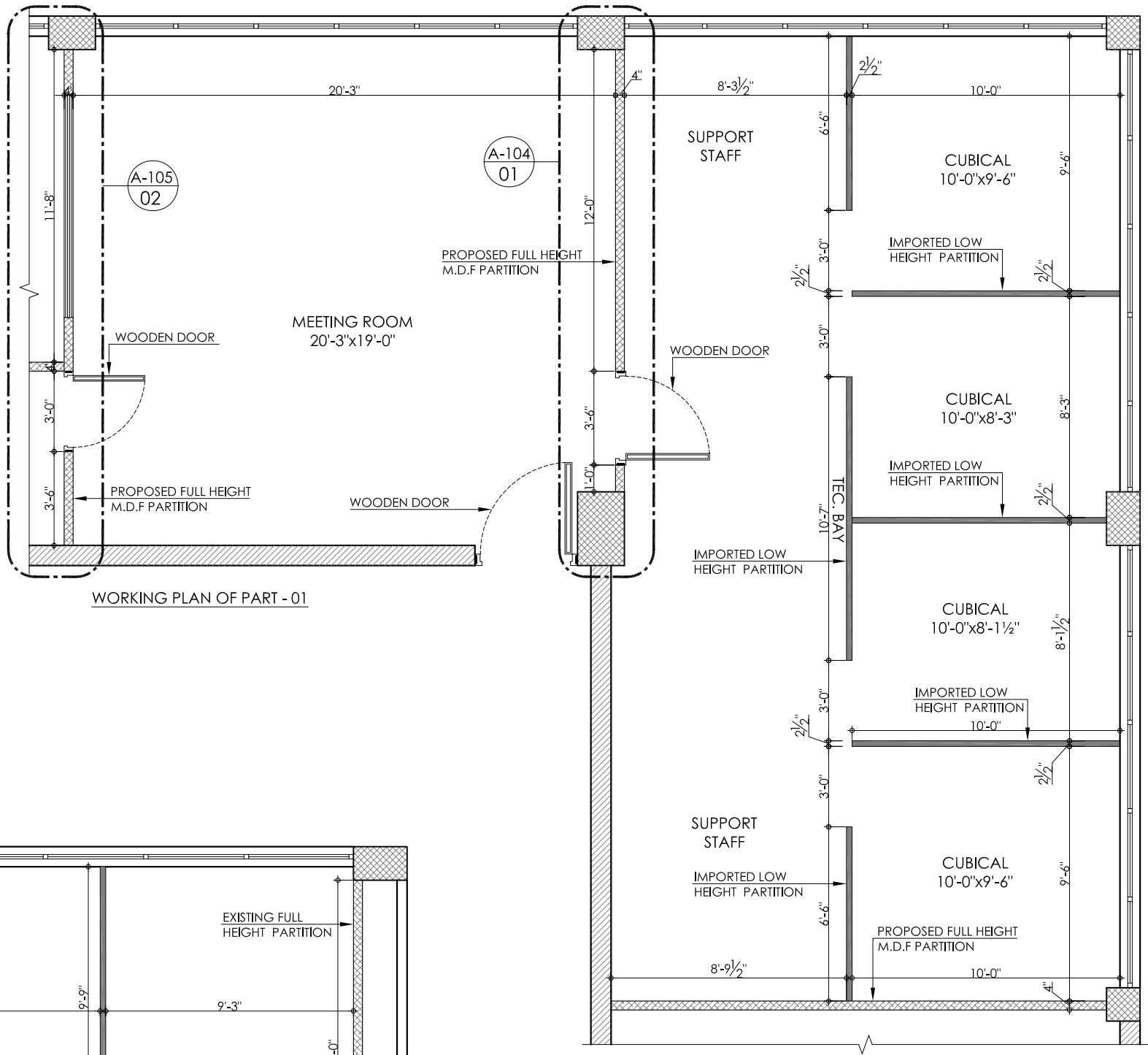
Drawing: **PARTITION WORKING PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

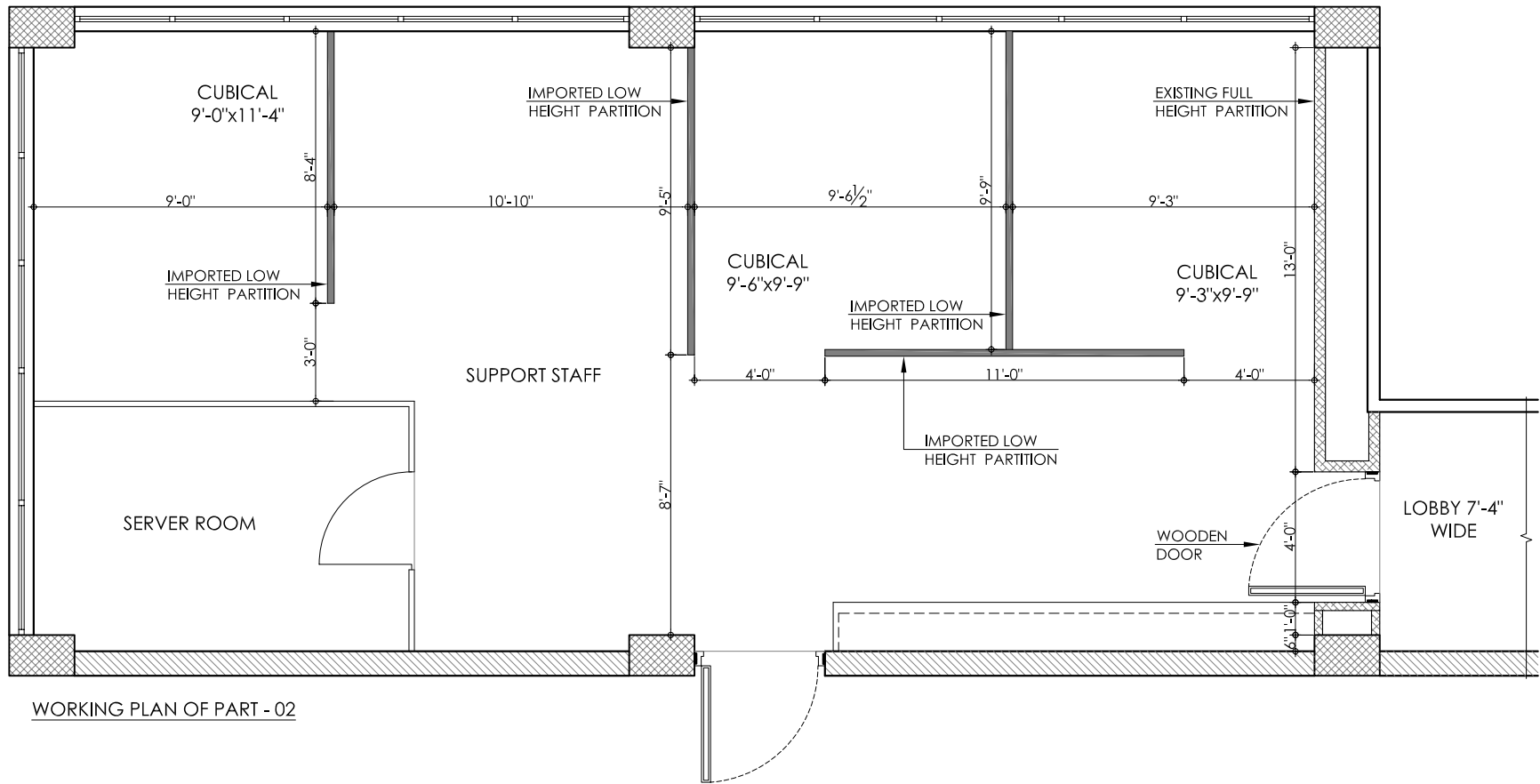
Project Number: ID - 050	Rev: 0
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Drawing Number:

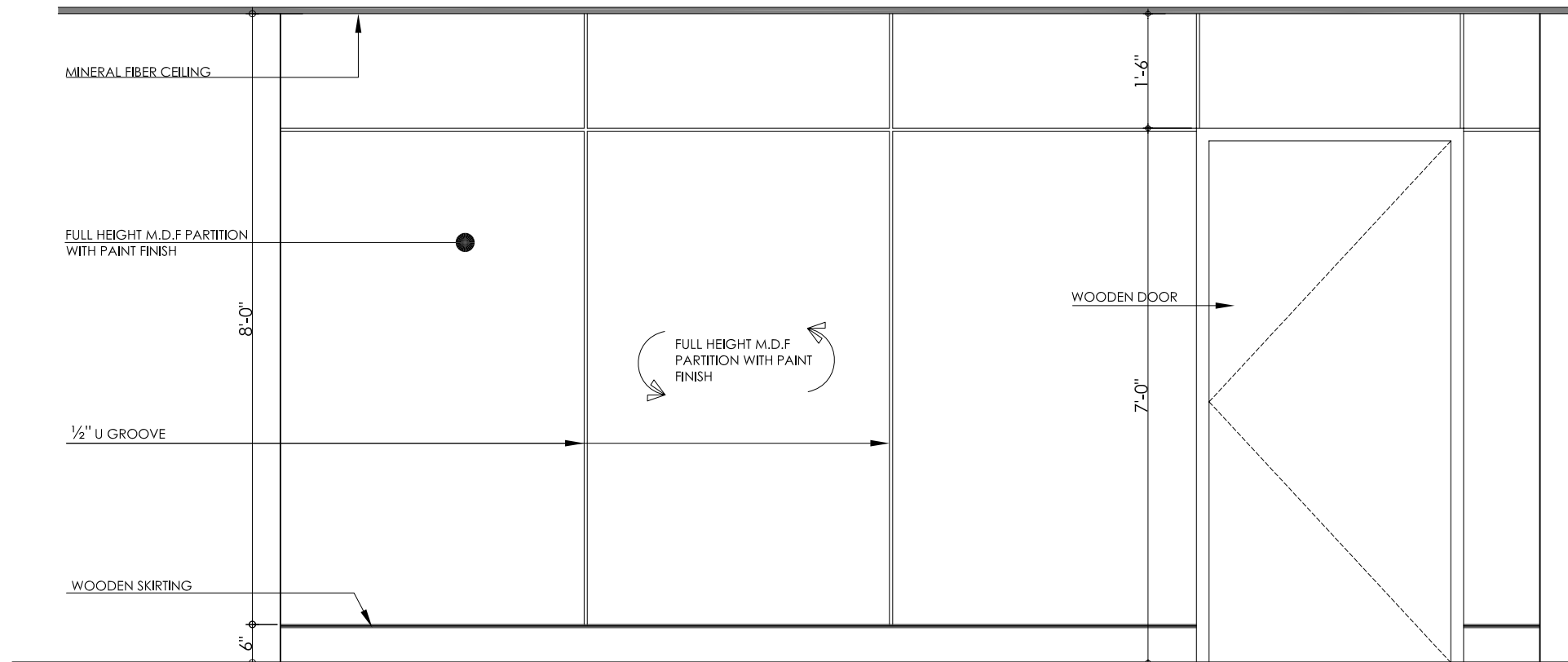
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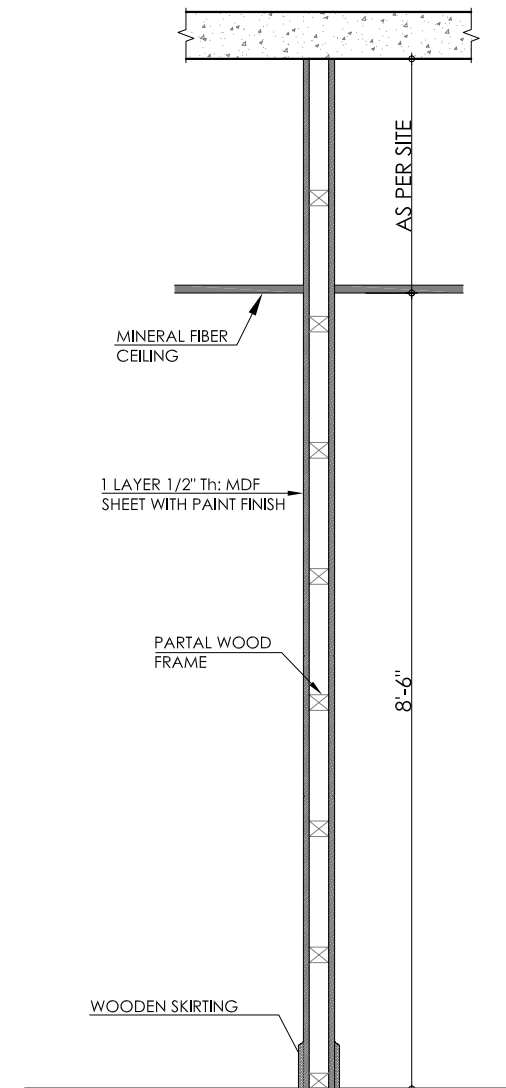
WORKING PLAN OF PART - 01



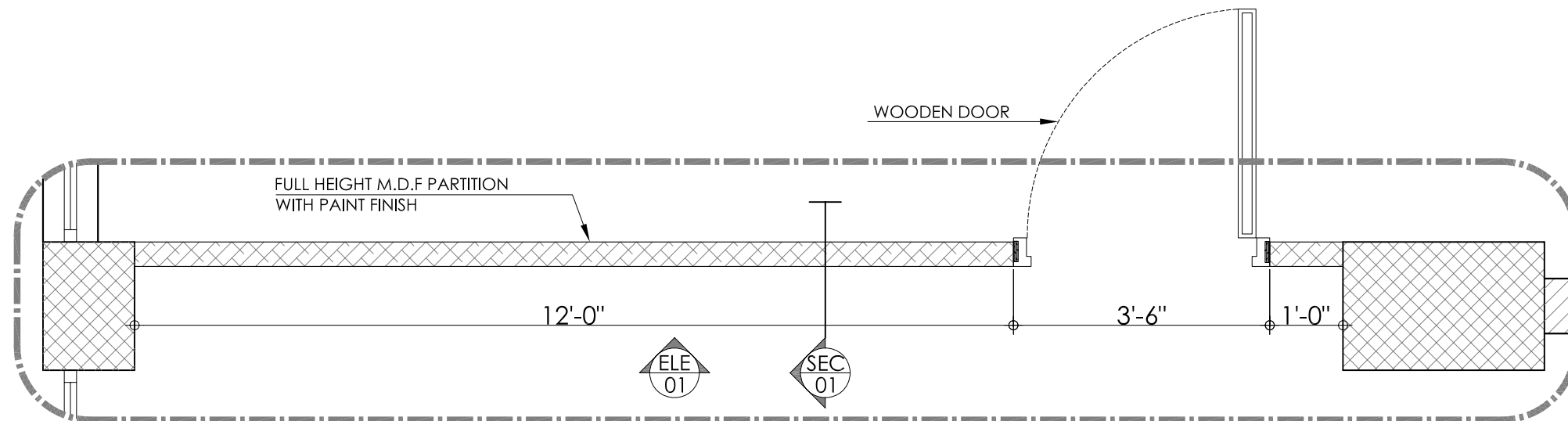
WORKING PLAN OF PART - 02



ELEVATION-01



SECTION - 01



01 PLAN
A-104 FIRST FLOOR



Client :

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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
PH: 051 2275425, FAX: 051 2271279.
Email: info@forensicdesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **FULL HEIGHT M.D.F
PARTITION DETAIL
(Part-01)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number:
A - 104



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ARCHITECT :



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Email: info@foresenicdesign.com

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(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status:

TENDER DRAWINGS

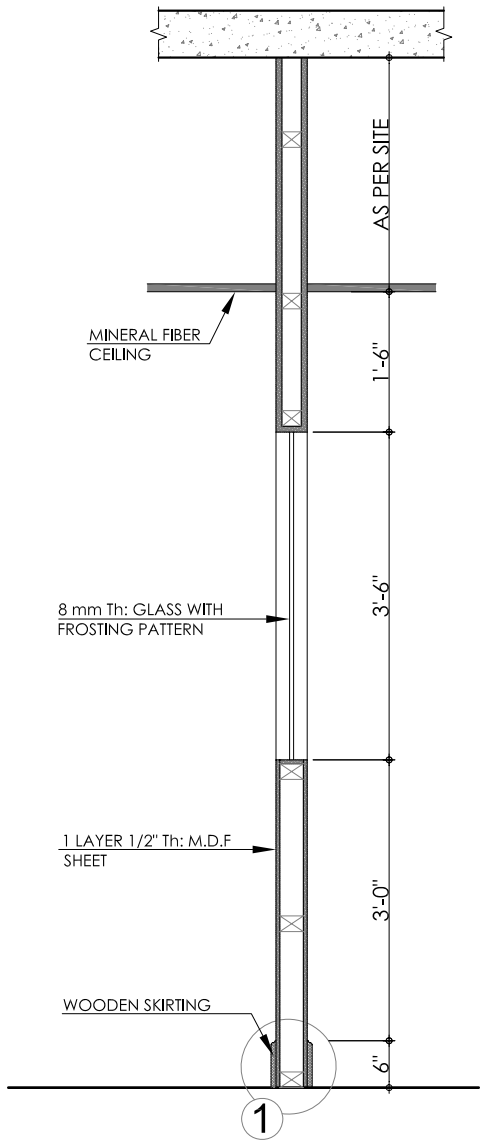
Drawing:

FULL HEIGHT M.D.F PARTITION
WITH 8mm TH: GLASS DETAIL
(Part-01)

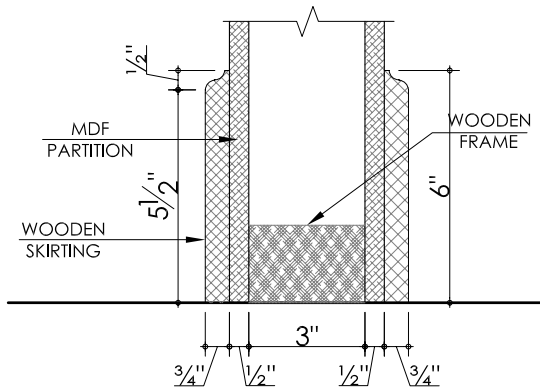
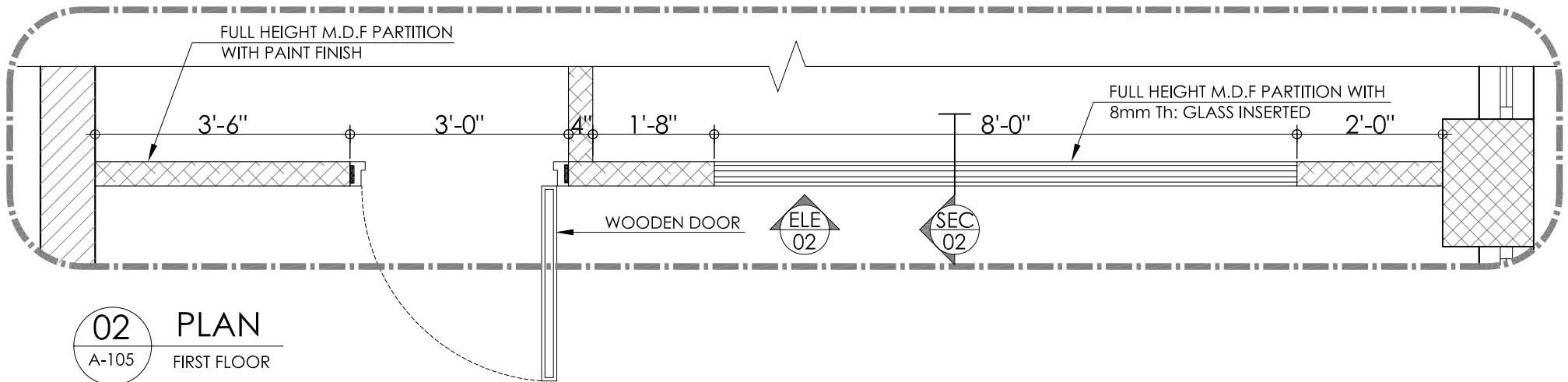
Designed:	Checked:
Muhammad Ibrahim Khan	Muhammad Ibrahim Khan
Drawn:	Scale:
Mubasher Nazir	N.T.S

Project Number:	Rev:
ID - 050	0

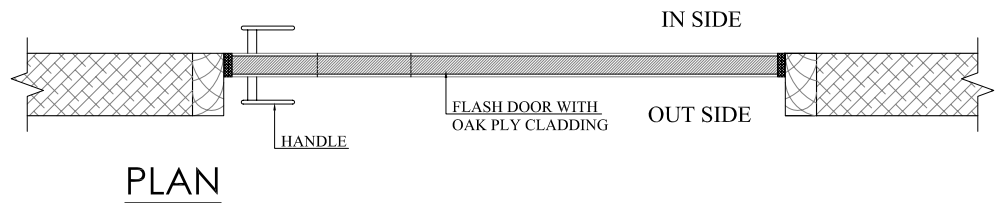
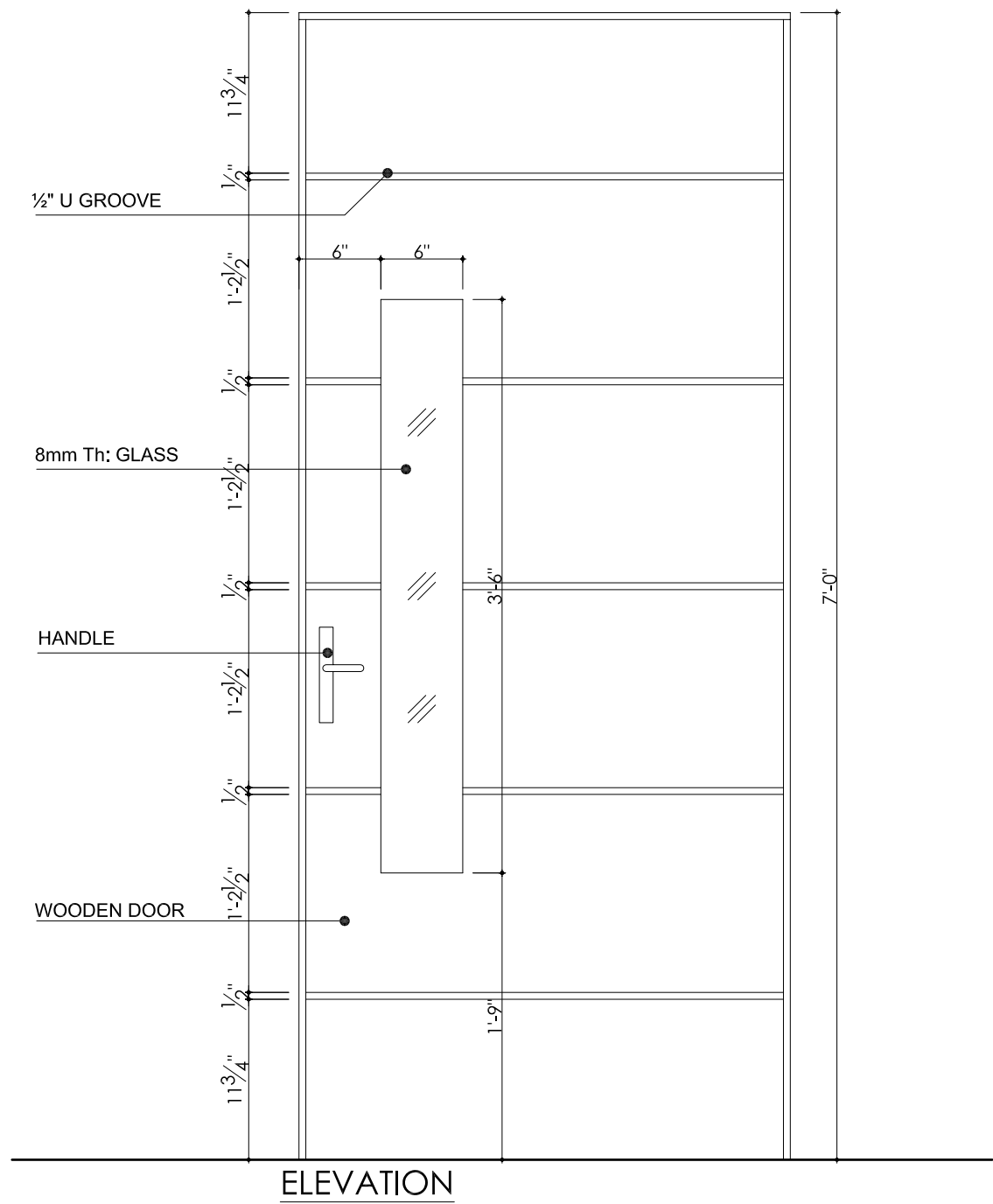
Drawing Number: A - 105



SECTION - 02



DETAIL -01



NOTE:

NO./SIZE	D (3'-0" x 7'-0")
TYPE	SINGLE LEAF HINGED
DESCRIPTION	FRAME: SOLID DEODAR WOOD FRAME LEAF: FLASH DOOR FINISH: OAK WOOD PLY CLADDING
HARDWARE	S.S DOOR HANDLE AND LOCK SET ,S.S HINGE.



Client :

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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
PH: 051 2275425, FAX: 051 2271279.
Email: info@foresenicedesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **TYPICAL DOOR DETAIL
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number:
A - 106



Client :

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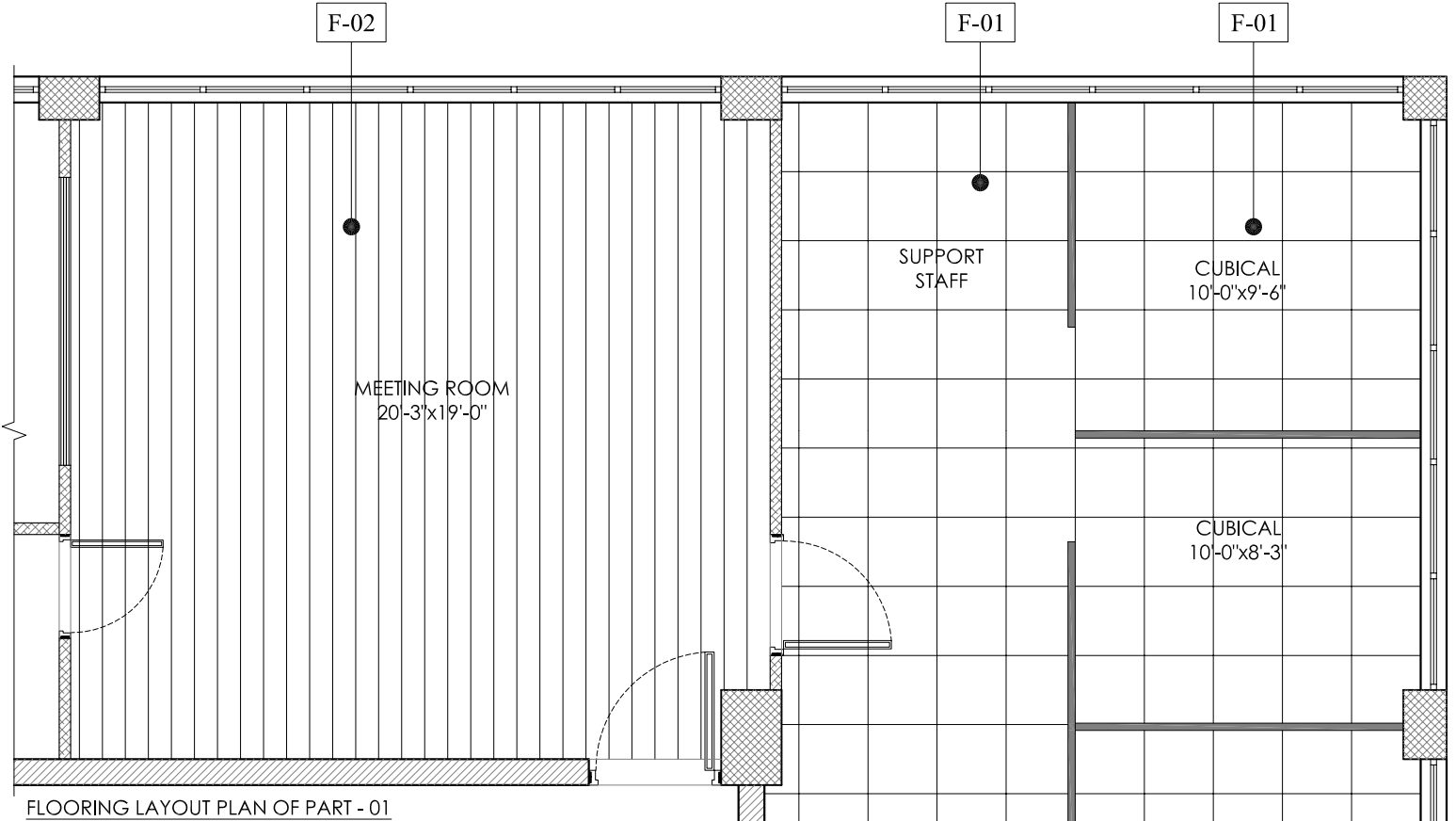
Drawing: **FLOORING LAYOUT PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

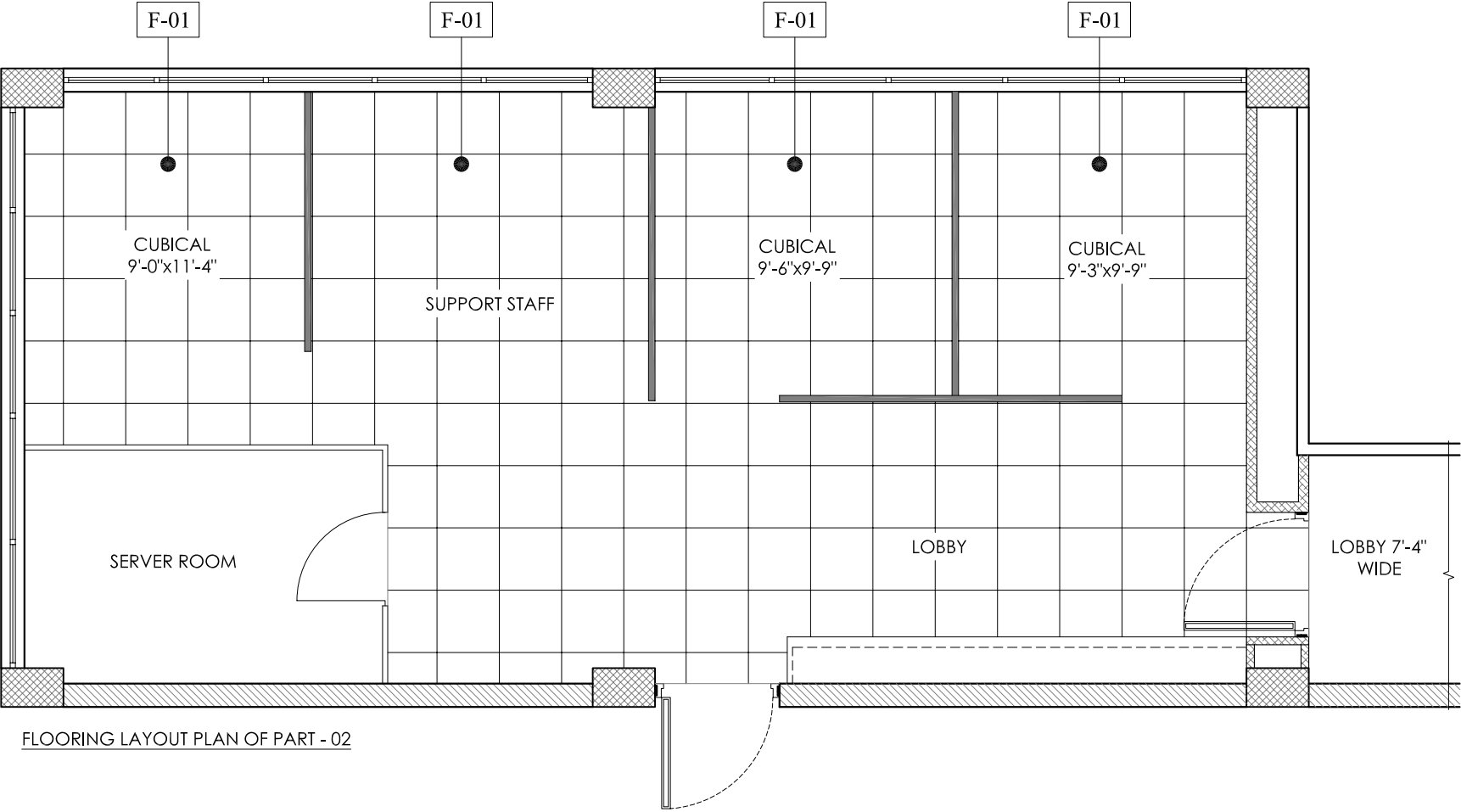
Project Number: ID - 050	Rev: 0
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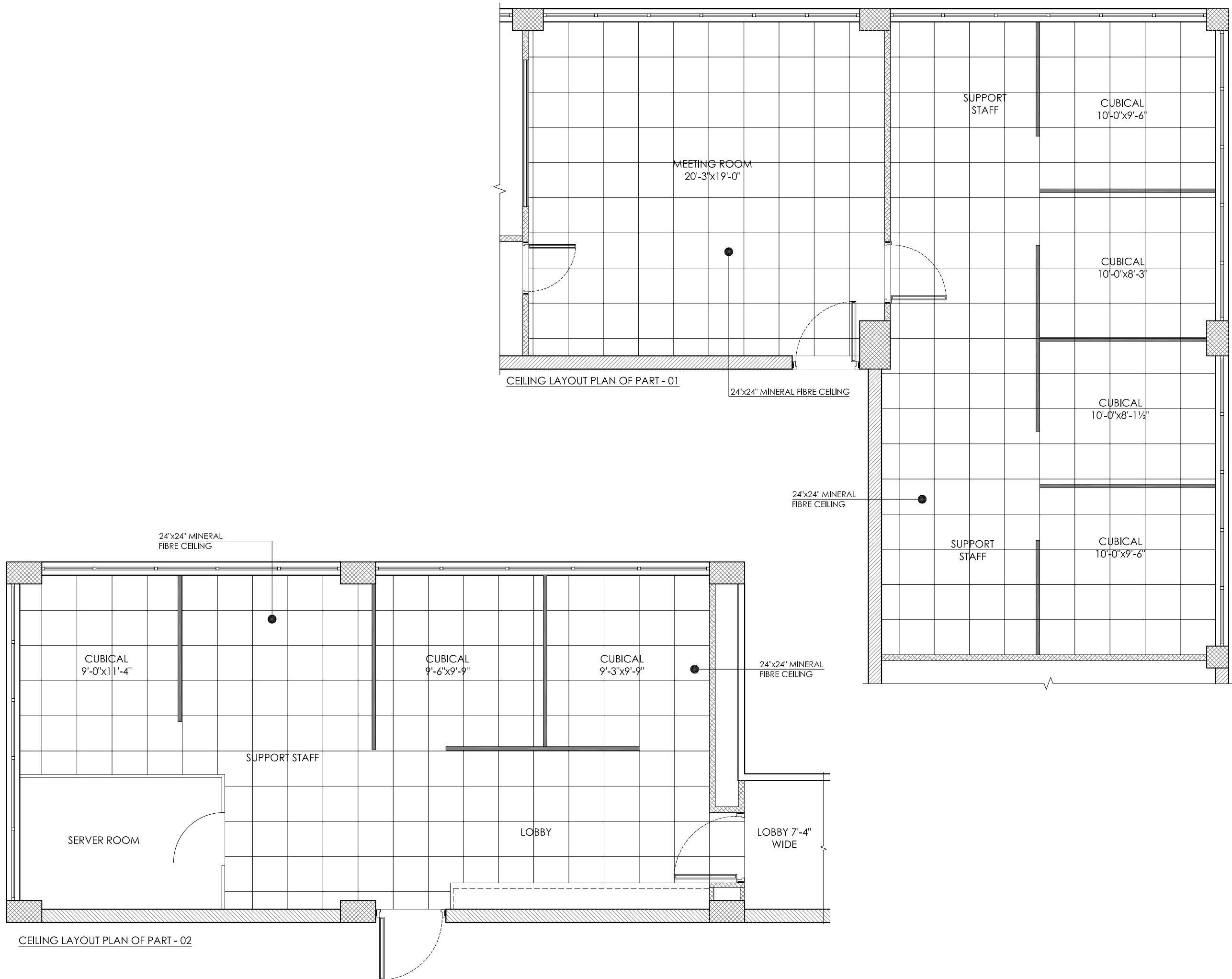
Drawing Number:

A - 107



FLOORING LEGENDS	
F-01	= 24"x24" PORCELAIN TILES IN STRAIGHT DIRECTION
F-02	= WOODEN TEXTURE TILE AS PER APPROVED





- Client :
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Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **CEILING LAYOUT PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number: **A - 108**

APRIL 2015

SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN (SECP)

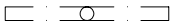







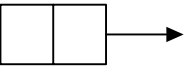













TENDER DRAWING SET (ELECTRICAL)































CONSULTANT:

FORESENIC DESIGN

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Web Site: www.foresenicdesign.com
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LEGEND	
SYMBOL	DESCRIPTION
	FLUORESCENT TUBE LIGHT, 1X36W, WITH PFIC PHILIPS CAT. No. TMS-140 OR SUNLIGHTING MODL No. DELTA-140 MOUNTED ON CEILING / WALL
	WALL LIGHTING FIXTURE, AS APPROVED BY CONSULTANT MOUNTED ON CEILING / WALL 7'-0" ABOVE FROM FINISHED FLOOR LEVEL
	WALL LIGHTING FIXTURE , ON MIRROR IN BATH MOUNTED ON CEILING / WALL JUST ABOVE MIRROR
	WALL LIGHTING FIXTURE WITH WIRE GUARD (WEATHER PROOF – BULK HEAD TYPE), IP 65, WITH 26 WATTS PLCE/CFL ENERGY SAVER LAMP AND AS APPROVED SUN LIGHTING MODEL No. OD 7009 MOUNTED ON WALL, 7'-0" ABOVE FROM FINISHED FLOOR LEVEL
	CEILING LIGHTING FIXTURE , IN BATH MOUNTED ON CEILING
	HANGING LIGHT FROM CEILING
	CONCELEAD 2'X2' CEILING FAN MADE OF MANUFACTURER AS MENTIONED IN LIST OF APPROVED MANUFACTURERS HANGING FROM CEILING
	EXHAUST FAN ,OF MENTIONED DIA AND SIMILAR MOUNTED ON WALL 8'-0" ABOVE FROM FINISHED FLOOR LEVEL
	<div><div></div> DUEL SOCKET (UPS) DATA AND VOICE</div> <div><div></div> 1 NO CONVENTIONAL VOICE (RJ-11) CONNECTION</div> <div><div></div> 3X2 PIN FLAT (UK) PORTS (DUEL SOCKETS FOR UPS POWER CONNECTION</div> <div><div></div> 1X3 PIN FLAT (UK) POWER CONNECTION FOR WAPDA</div> <div><div></div> 1X2 PIN ROUND (FRENCH) POWER CONNECTION FOR WAPDA</div>
	MOUNTED ON WALL PUSH BUTTON FOR ABOVE DOOR BELL 4'-0" ABOVE FROM FINISHED FLOOR LEVEL
	SWITCH 1-WAY, 5 AMP, 6 IN NUMBER AND SIMILAR MOUNTED ON WALL 4'-0" ABOVE FROM FINISHED FLOOR LEVEL
	SWITCH 2-WAY, 5 AMP, ONE IN NUMBER AND SIMILAR MOUNTED ON WALL 4'-0" ABOVE FROM FINISHED FLOOR LEVEL
	DATA SOCKET
	SWITCH SOCKET 5 A, 220 V, 3/5 PIN, MOUNTED ON WALL/PARTITION 9" ABOVE FROM FINISHED FLOOR LEVEL
	SHAVER SOCKET , AS PER BS 3052 MOUNTED ON WALL ASIDE BATH MIRROR
	SWITCH SOCKET 15 A, 220 V, 3 PIN, MOUNTED ON WALL/PARTITION 9" ABOVE FROM FINISHED FLOOR LEVEL
	SWITCH 1-WAY, 10 AMP, ONE IN NUMBER AND SIMILAR MOUNTED ON WALL 4'-0" ABOVE FROM FINISHED FLOOR LEVEL

LEGEND	
SYMBOL	DESCRIPTION
	CASSETTE TYPE AC
 AC	SWITCH SOCKET 20 / 25 A, 220 V, 3 PIN, FOR AC MOUNTED ON WALL 5'-6" ABOVE FROM FINISHED FLOOR LEVEL
 DB-F1	DISTRIBUTION BOARD-F1 AND SIMILAR MOUNTED ON WALL TOP OF DB TO BE 6'-0" ABOVE FROM FINISHED FLOOR LEVEL
 10 A	mcb (MINIATURE CIRCUIT BREAKER) , 10 A , SP , AND SIMILAR INSTALLED IN DB
 30 A, 6 KA minimum TP MCCB	MCCB(MOULDED CASE CIRCUIT BREAKER) , 30 A , TP , OF MINIMUM 6KA OR NEXT HIGHER RUPTURING CAPACITY AND SIMILAR, INSTALLED IN DB
	TELE PHONE EXCHANGE
	CABLE TV POINT MOUNTED ON WALL/PARTITION, 9" ABOVE FROM FINISHED FLOOR LEVEL
	TELEPHONE POINT MOUNTED ON WALL/ PARTITION, 9" ABOVE FROM FINISHED FLOOR LEVEL
 TYPE - A	EARTH POINT (ELECTRODE) , TYPE - A
	EARTH CONNECTING POINT
 DB-G/R1	CONDUIT GOING DIRECTLY TO DB-G AND WIRES CONNECTION WITH CIRCUIT NO. RI AND SIMILAR
	ELECTRIC METER (KWH ENERGY METER) TO BE INSTALLED BY ELECTRIC SUPPLY COMPANY
	CONDUIT GOING / TURNING UP
	CONDUIT GOING / TURNING DOWN
	CONDUIT COMING FROM UP AND GOING DOWN WITHOUT HAVING ANY JUNCTION OR PULL BOX
	SINGLE POLE / SINGLE PHASE
	DOUBLE POLE
	TRIPLE POLE / THREE PHASE
	FOUR POLE
	MOULDED CASE CIRCUIT BREKER
	EARTH LEAKAGE CIRCUIT BREAKER
	MINIATURE CIRCUIT BREKER
	CIRCUIT PROTECTIVE CONDUCTOR (EARTH WIRE)
	300 MILLI AMPS SENSITIVITY OF EARTH LEAKAGE CIRCUIT BREAKER AND SIMILAR
 JB	JUNCTION BOX MOUNTED ON WALL, 1'-0" ABOVE FROM FINISHED FLOOR LEVEL
 TJB	TELEPHONE JUNCTION BOX MOUNTED ON WALL, 1'-0" ABOVE FROM FINISHED FLOOR LEVEL
 TVJB	CABLE TV JUNCTION BOX MOUNTED ON WALL, 1'-0" ABOVE FROM FINISHED FLOOR LEVEL
	STANDING AC



Client :

GENERAL NOTES :

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Rev	Description	Date
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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
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Email: info@foresenicdesign.com

Project:		SECP
		(DIRECTOR GENERAL OF TRADE ORGANIZATION)
Project Status:		TENDER DRAWINGS
Drawing:		LEGENDS ELECTRICAL
Designed:	Checked:	
Muhammad Ibrahim Khan	Muhammad Ibrahim Khan	
Drawn:	Scale:	
Mubasher Nazir	N.T.S	
Project Number:	Rev:	
ID - 050	0	
Drawing Number:		

NOTES:

- 1- THE WHOLE OF THE ELECTRIC WORK SHALL BE CARRIED OUT ONLY BE THE LICENCED CONTRACTOR, AUTHORISED BY THE GOVERNMENT TO UNDERTAKE SUCH WORK, UNDER THE PROVISION OF THE PAKISTAN ELECTRICITY RULES AND UNDER THE DIRECT SUPERVISION OF WHOLE TIME ELECTRICAL SUPERVISOR, HAVING REQUIRED CERTIFICATE OF COMPETENCY, FOR THE TYPE OF WORK UNDER EXECUTION.
- 2- THE WHOLE OF ELECTRIC WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE REGULATIONS OF THE ELECTRIC EQUIPMENT OF BUILDINGS (LATEST EDITION) AS ISSUED BY THE INSTITUTE OF ELECTRICAL ENGINEERS LONDON AND SHALL ALSO COMPLY WITH PROVISIONS OF THE PAKISTAN ELECTRICITY RULES.
- 3- READ ALL OF THE ELECTRICAL DRAWING CAREFULLY AND IN 100 % BEFORE STARTING THE WORK AT SITE (FOR PROPOSES OF NOTINGS FOR SHOP DRAWINGS AND FOR CO-ORDINATION WITH OTHER SERVICES etc.).
- 4- THE CONDUIT SHALL BE LAID IN CEILING SLAB OF THAT FLOOR UNLESS OTHERWISE NOOTED
- 5- PROVIDE CONCEALED JUNCTION/PULL BOXES WHEN EVER MORE THAN TWO NINETY DEGREE BENDS/TURNS ARE MADE IN A CONDUIT RUN. A PULL BOX SHALL ALSO BE PROVIDED FOR EVERY 75 FEET OF STRAIGHT CONDUIT RUN.
- 6- AVOID JUNCTION/PULL BOXES WHEN EVER NOT REQUIRED AS THESE DO NOT APPEAR GOOD ARCHITECTURLY.
- 7- THE WIRING THROUGH CONDUIT SHALL BE STARTED ONLY AFTER CONDUITING SYSTEM IS COMPLETELY INSTALLED AND ALL OUT LET BOXES, JUNCTION BOXES etc. ARE FIXED IN POSITION.
- 8- THE WIRES SHALL BE PULLED IN THE CONDUIT WITH CARE AND, TO FACILITATE PULLING, THE MANUFACTURER'S RECOMMENDED LUBRICANT SHALL BE USED. USE OF ANY KIND OF OIL OR SOAP WILL NOT BE PERMITTED.
- 9- WHERE SEVERAL WIRES ARE TO BE RUN IN THE SAME CONDUIT, THOSE SHALL BE PULLED IN TOGETHER.
- 10- THE WIRES SHALL NOT BE BENT TO A RADIUS LESS THAN 10 TIMES THEIR OVER ALL DIAMETER OF THE WIRES, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- 11- THE WIRING SHALL BE CONTINUOUS BETWEEN TERMINATIONS.
- 12- THE LOOPING-IN SYSTEM SHALL BE FOLLOWED THROUGH OUT. ANY JOINT IN WIRES WILL NOT BE ALLOWED. THE USE OF CONNECTORS WILL ONLY BE ALLOWED AT LOCATIONS WHERE LOOPING-IN IS RENDERED DIFFICULT. THE CONSENT OF THE ENGINEER-INCHARGE, IN WRITING, WILL BE REQUIRED FOR USING CONNECTORS.
- 13- ALL CONDUIT SHALL BE CONCEALED AND OF PVC FOR GENERAL USE.
- 14- PVC CONDUIT SHALL BE MADE OF M/S PAKISTAN PVC LTD. KARACHI AND NAME " SHAVYL ".
- 15- MIN. SIZE OF CONDUIT IS 3/4 " DIA.
- 16- WIRES/CABLES SHALL BE MADE OF M/S PAKISTAN CABLES LTD, KARACHI AND OF COPPER CONDUCTOR ONLY.
- 17- ALL CONDUIT FOR TELEPHONE SYSTEM IS 1" DIA UNLESS OTHERWISE NOTED.

NOTES:

- 18- CIRCUIT BREAKERS ARE MADE OF M/S MERLIN GERIN FRANCE.
- 19- PROVIDE A PULL WIRE OF 12 INCHES OF SLACK AT EACH END OF THE CONDUIT RUN.
- 20- THE DISTANCE OF THE SWITCH BOX FROM WHERE THE DOOR STARTS WILL BE 8" OR AS APPROVED BY ENGINEER-INCHARGE.
- 21- FACE PLATES OF SWITCH, SOCKETS, TELEPHONE AND OTHER OUTLETS SHALL BE FLUSH WITH FINISHED SURFACE.
- 22- THE ELECTRICAL RESISTANCE OF ECC TOGETHER WITH EARTH LEAD AND EARTH ELECTRODE SHALL NOT EXCEED 1 OHM. IF THE RESISTANCE TO EARTH EXCEEDS TO 1 OHM, THEN CONTRACTOR SHALL OBTAIN INSTRUCTIONS FROM THE CONSULTANT FOR ANY RECTIFICATION. RUN TWO SEPERATE LEADS TO EACH ELECTRODE.
- 23- CIRCUIT DIRECTORY SHALL BE MARKED ON DBs AS PER DRAWING.
- 24- ALL CIRCUIT BREAKERS ARE OF 6 KA INTERRUPTING CAPACITY, UNLESS OTHERWISE NOTED.
- 25- WHEN EVER MORE POWER ONE CIRCUIT (SINGLE PHASE FOR LIGHT AND SOCKETS etc.) RUN IN ONE COMMON CONDUIT, EACH CIRUIT SHALL HAVE ITS OWN SEPERATE AND INDEPENDENT PHASE WIRE, NEUTRAL WIRE AND ECC. NEUTRAL WIRE SHALL HAVE THE SIZE EQUAL TO ITS PHASE WIRE. NEUTRAL WIRE AND ECC OF ONE CIRCUIT SHALL NOT BE MADE COMMON WITH NEUTRAL WIRE AND ECC.
- 26- USE SEPERATE SWITCH BOX FOR EACH CIRCUIT IF THERE ARE MORE THAN ONE CIRCUIT COMMING AT ONE LOCATION.
- 27- THE MOUNTING HEIGHT OF DIFFERENT FIXTURES ABOVE FINISHED FLOOR LEVEL SHALL BE AS FOLLOWIING AS MEASURED FROM THE BOTTOM OF FIXTURE.
- a. DISTRIBUTION BOARD - - - - 3'-6".
- b. LIGHT AND FAN CONTROL SWITCH - - - - 3'-6".
- c. 5 A, 15 A/20 A SWITCH SOCKETS - - - - 1'-0".
- d. 15/20 A SWITCH SOCKET FOR A/C - - - AT LEVEL AS PER A/C MOUNTING POSITION.
- e. WALL MOUNTING LIGHT, LIGHT BRACKETS - - - - 7'-0".
- 28- USE FLEXIBLE CONDUIT WHEREVER OTHER CONDUITS CROSS EXPANSION JOINT TO AVOID BREAKAGE OF CONDUITS AND WIRES.
- 29- ALL OF THE CONDUIT (FOR ALL SORT OF SOCKETS, TEL, TV etc.) WILL BE LAID IN CEILING SLAB OF THAT FLOOR.
- 30- ALL CONDUIT FOR TV AND FIRE ALARM SYSTEMS ARE 1" DIA, UNLESS OTHERWISE NOTED.
- 31- FOR EACH SPLIT A/C UNITS, POWER CIRCUIT IS SHOWN NEAR INDOOR UNIT. THE WIRING / CONDUITING BETWEEN ITS INDOOR UNIT (EVAPORATOR) AND OUTDOOR UNIT (CONDENSOR) WILL BE DONE BY OTHERS (A/C CONTRACTOR).
- 32- SWITCHES ON EMERGENCY GENERATOR SUPPLY WILL HAVE SEPARATE SWITCH BACK BOXES.
- 33- SUFFIX " E " STANDS FOR "POINTS ON EMERGENCY GENERATOR SUPPLY".
- 34- FOR TELEPHONE AND TV SYSTEMS, ONLY CONDUIT WITH DRAW WIRE AND RESPECTIVE SOCKET WILL BE PROVIDED BY BUILDING CONTRACTOR UNDER THIS CONTRACT. THE WIRES WILL BE PULLED-IN BY OTHER CONTRACTOR / VENDOR UNDER SEPARATE CONTRACT.



Client :

GENERAL NOTES :

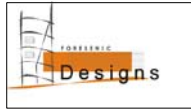
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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



**FORESENIC
DESIGNS**

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
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Email: info@foresenicdesign.com

Project:

SECP

(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status:

TENDER DRAWINGS

Drawing:

**GENERAL NOTES
ELECTRICAL**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number:

E - 102



Client :

GENERAL NOTES :

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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
PH: 051 2275425, FAX: 051 2271279.
Email: info@foresenicdesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **GENERAL NOTES
ELECTRICAL**

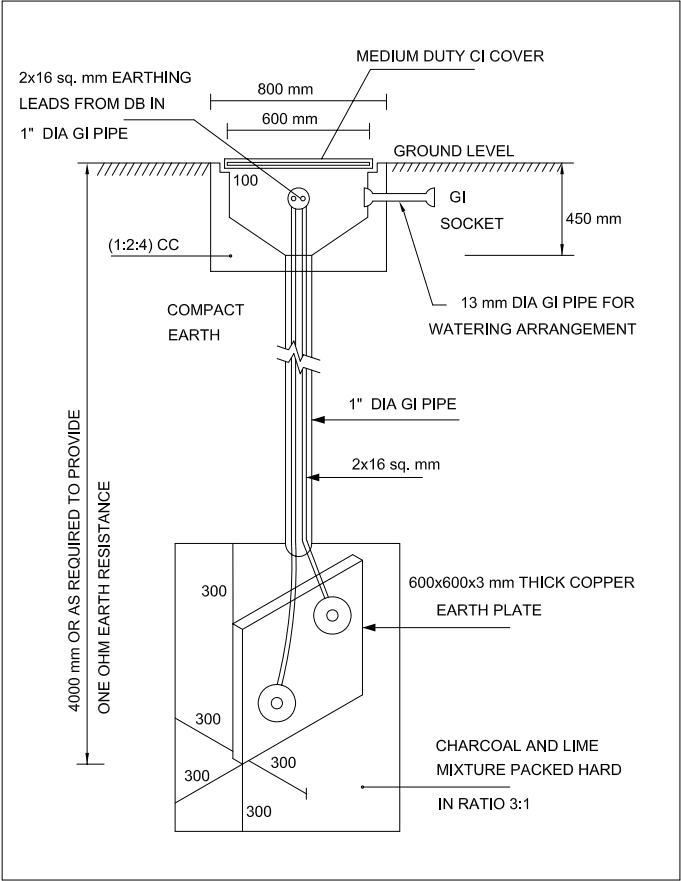
Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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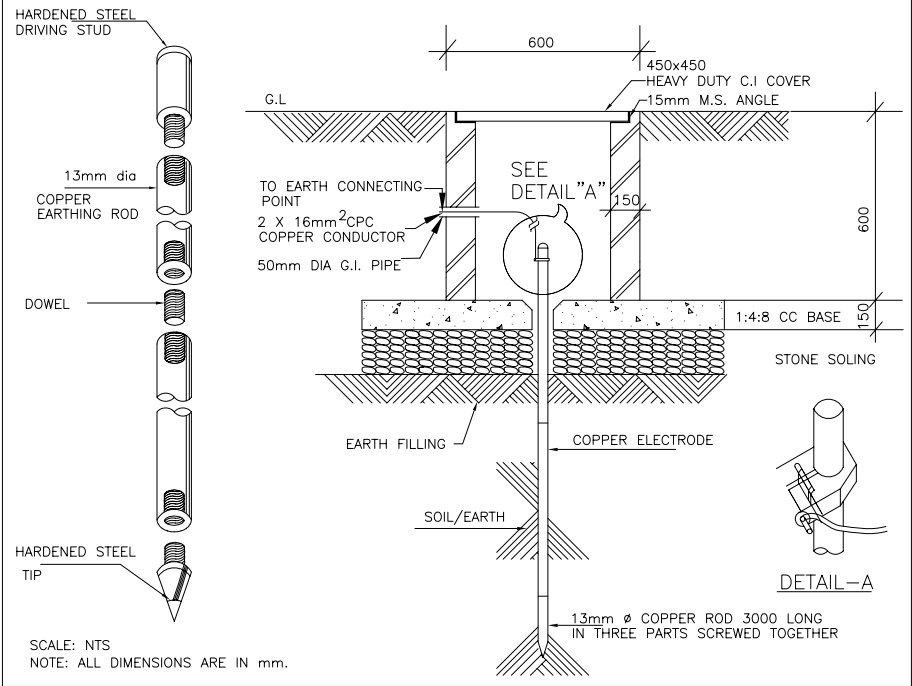
Drawing Number:

E - 103

EARTH POINT DETAIL



EARTHING ELECTRODE DETAIL (TYPE-B)



SCHEDULE OF WIRES FOR WIRING

(WIRES WILL BE OF 450/750 VOLTS GRADE)

USE OF WIRES	SIZE OF WIRES		
	PHASE	NEUTRAL	ECC / CPC
CIRCUIT WIRES FOR LIGHT, FAN, 5 A SOCKET	2.5 sq. mm	2.5 sq. mm	2.5 sq. mm
POINTS WIRING WIRES FOR LIGHT, FAN, 5 A SOCKET	1.5 sq. mm	1.5 sq. mm	1.5 sq. mm
15/20 A SOCKET FOR GENERAL USE	4 sq. mm	4 sq. mm	4 sq. mm
WIRING FOR A/C FROM DB TO FCU TO CU	6 sq. mm	6 sq. mm	6 sq. mm

MAXIMUM CAPACITY OF PVC CONDUIT

WIRE CONDUCTOR SIZE	SIZE OF PVC CONDUITS		
	20 mm (3/4")	25 mm (1")	32 mm (1 1/4")
1.5 sq. mm	8	18	26
2.5 sq. mm	6	11	17
4 sq. mm	4	8	13
6 sq. mm	3	6	10

List of Approved Manufacturers and Suppliers

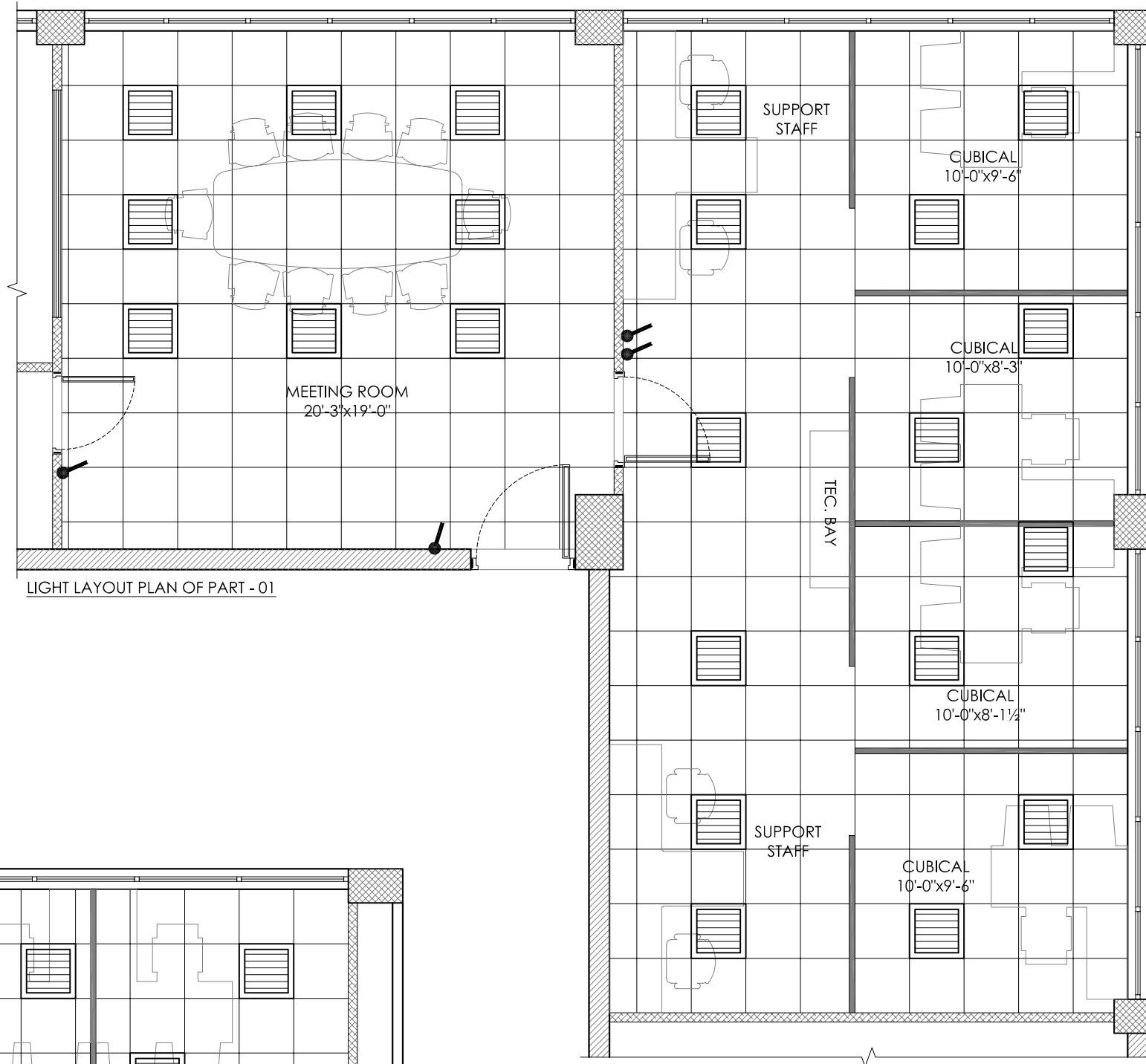
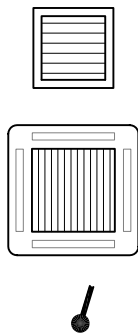
S. No.	MATERIAL	APPROVED MANUFACTURERS
1.	PVC Conduits and Accessories	a) M/S BETA PIPES , LAHORE b) M/S PAKISTAN PVC Ltd. , TRADE NAME " SHAVYL " c) M/S GALAXY , TRADE NAME " GALCO "
2.	WIRES / CABLES / HDBCC	a) M/S PAKISTAN CABLES Ltd. , KARACHI b) M/S NEWAGE CABLES Ltd. , LAHORE c) M/S PIONEER CABLES d) M/S FAST CABLES
3.	SWITCHES / SOCKETS / TV OUTLET AND ACCESSORIES etc.	a) M/S CLIPSAL , AUSTRALIA b) M/S TENBY , ENGLAND c) M/S EDISON , UK
4.	LIGHTING FIXTURES	a) M/S PHILIPS PAKISTAN b) M/S SUN LIGHTING PAKISTAN c) M/S CLIPSAL , AUSTRALIA
5.	LAMPS AND BALLASTS / CHOKES etc.	a) M/S PHILIPS PAKISTAN b) M/S SUN LIGHTING PAKISTAN c) M/S CLIPSAL , AUSTRALIA
6.	FANS	a) M/S MILLAT b) M/S ASIA c) PAK FANS
7.	LT CIRCUIT BREAKERS (Equipment Only)	a) G. E. AMERICA and its subsidiaries b) M. G. (MERLIN GERIN) FRANCE c) SIEMENS (Pak) Engg. Co.
8.	LT PANELS AND DISTRIBUTION BOARDS (Manufacturing Only)	a) SIEMENS (Pak) Engg. Co. b) IMAM TRADING, RATTA PLAZA, BLUE AREA , ISLAMABAD c) ELECTRIC, LAHORE d) JAMIL ELECTRIC , LAHORE
9.	CONTACTOR/ RELAYS (Equipment Only)	a) NATIONAL b) TELEMECANIQUE, FRANCE
10.	BACK BOXES / PULL BOXES / JUNCTION BOXES /	a) IMAM TRADING, RATTA PLAZA, BLUE AREA , ISLAMABAD b) M/S EDISON , UK c) M/S HUSAIN & Co., Karachi
11.	EMERGENCY DIESEL GENERATOR SET	a) CATER PILLAR, USA b) AS APPROVED

LEGENDS:-

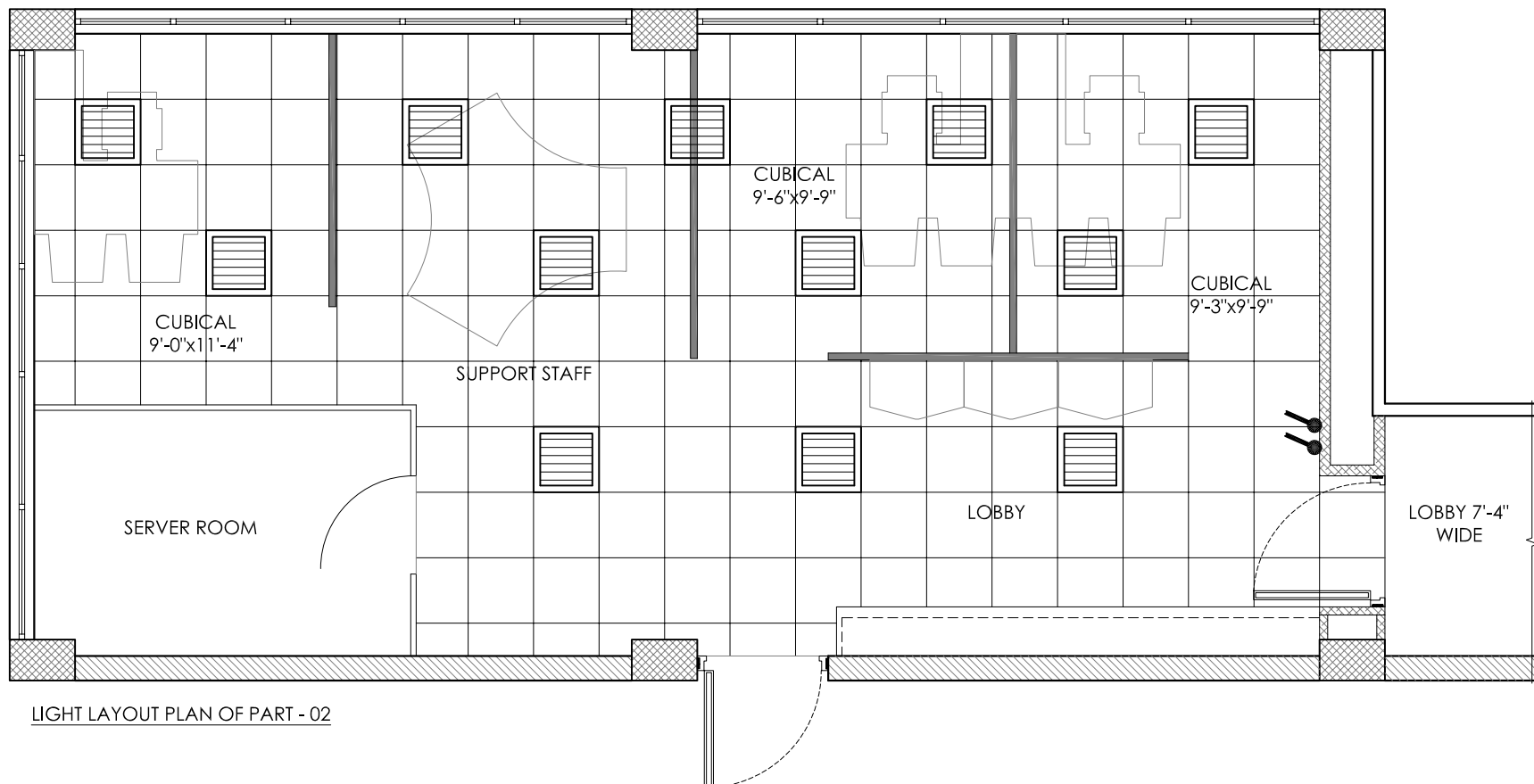
SQUARE LIGHT 2'X2'

CASSETTE TYPE AC

LIGHT CONTROL SWITCH 10A (ONE WAY)



LIGHT LAYOUT PLAN OF PART - 01



LIGHT LAYOUT PLAN OF PART - 02



Client :

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MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORENSIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
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Email: info@forensicedesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **LIGHT LAYOUT PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number:

E - 104

LEGENDS:-

DISTRIBUTION BOX

T.V

SINGLE RJ 11 TELE PHONE SOCKET.

13 AMPS 250 VOLTS 3 PIN SWITCH SOCKET UNIT M.K SINGAPORE OR EQUAL. WIRED WITH 4.0 SQ.mm PVC COPPER WIRE

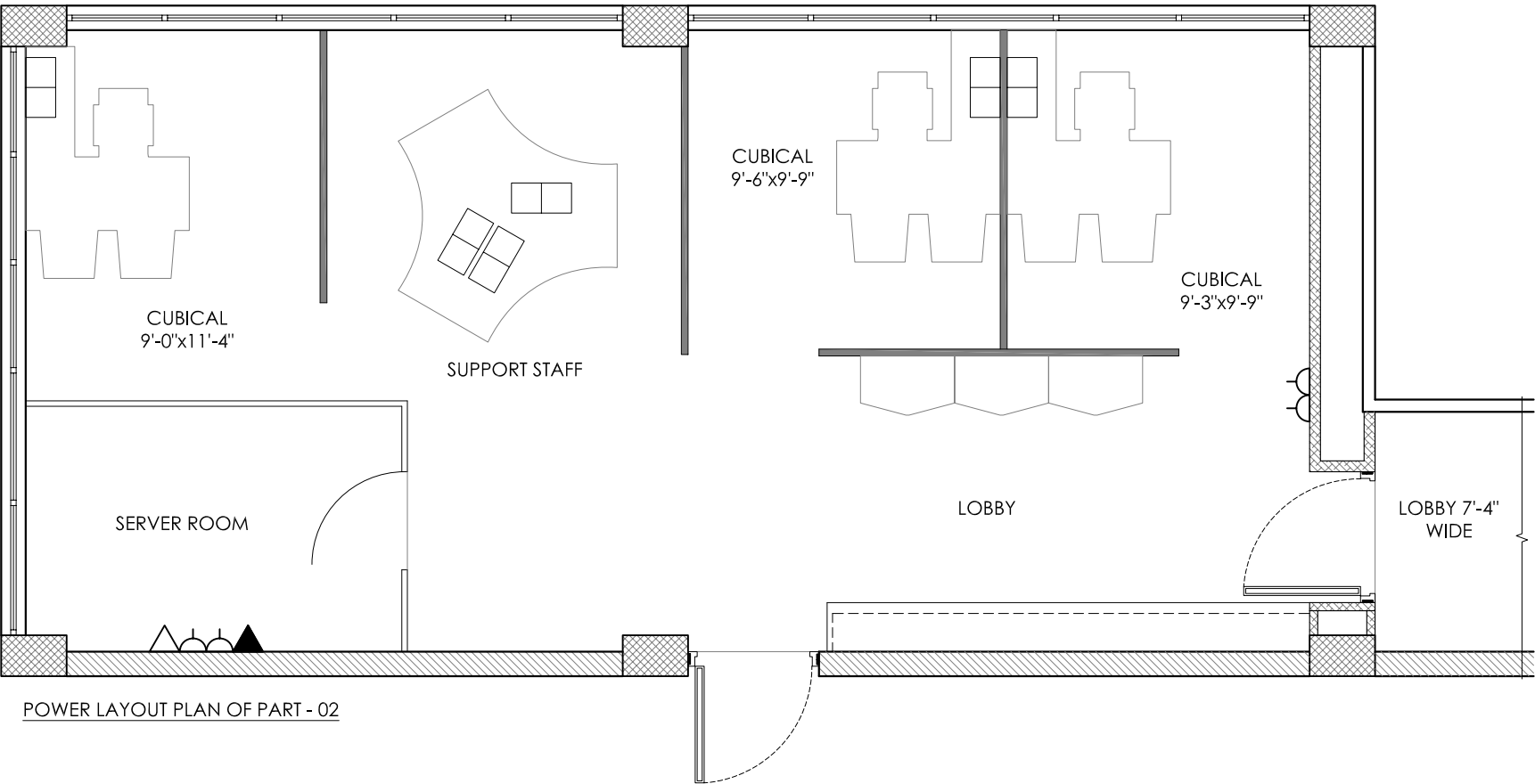
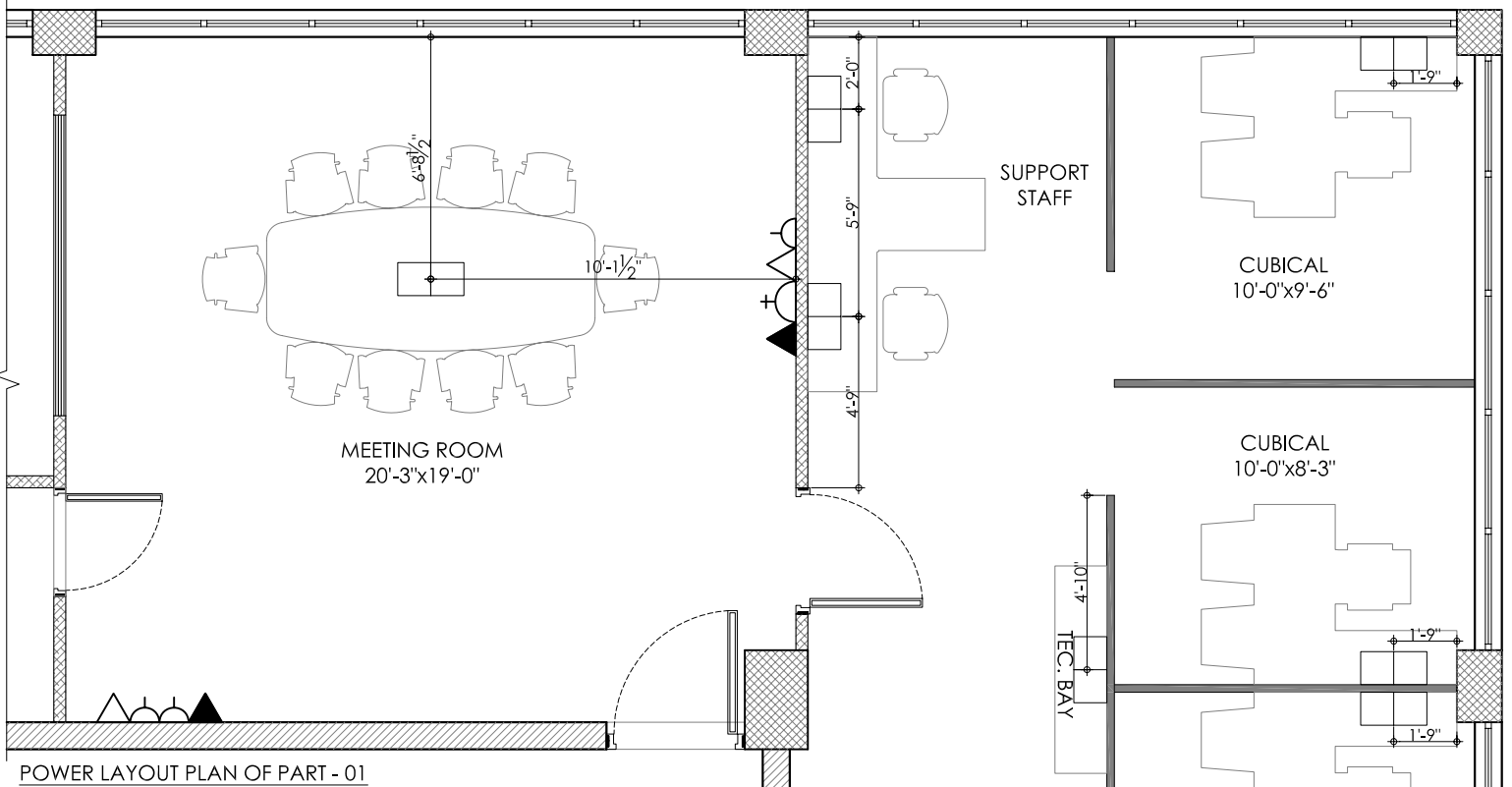
15 AMPS 250 VOLTS 3 PIN SWITCH SOCKET UNIT M.K SINGAPORE OR EQUAL WIRED WITH 6.00 SQ.mm PVC COPPER CABLE

DATA SOCKET.

-
- DUEL SOCKET DATA & VOICE.
 - 1 NO CONVENTIONAL VOICE (RJ-11) CONNECTION.
 - 2x3 PIN FLAT (UK) PORTS (DUEL SOCKET) FOR UPS POWER CONNECTION.
 - 1x3 PIN FLAT (UK) POWER CONNECTION FOR WAPDA.
 - 1x2 PIN ROUND (FRENCH) POWER CONNECTION FOR WAPDA

NOTES:-

ALL THE ELECTRICAL LIGHT PLUGS,POWER PLUGS,TELEPHONE AND T.V POINTS SHOULD BE 9" ABOVE THE FINISH FLOOR LEVEL. IN THE LOUNDRY & KITCHEN LIGHT PLUGS AND POWER PLUGS SHOULD BE 42" ABOVE THE FINISH FLOOR LEVEL. AND ALL THE SWICTH SOCKETS SHOULD BE 44" ABOVE FINISH FLOOR LEVEL. AND ALL THE LIGHT FIXTURE SHOULD BE 7'-0" ABOVE THE FINISH FLOOR LEVEL..



Client :

GENERAL NOTES :

- THIS DRAWING IS NOT TO BE SCALED, STATED DIMENSIONS ARE ONLY TO BE CONSIDERED
- ALL DIMENSIONS ARE TO BE VERIFIED ON SITE AS PER ACTUAL SITE CONDITION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK
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Rev	Description	Date
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M		

MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



FORESENIC
DESIGNS

UNIT # 14-D, FIRST FLOOR,
REHMAT PLAZA, BLUE AREA ISLAMABAD.
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Email: info@forensenicdesign.com

Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

Project Status: **TENDER DRAWINGS**

Drawing: **POWER ,VOICE & DATA
LAYOUT PLAN
(Part-01 & Part-02)**

Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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Drawing Number:

APRIL 2015

SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN (SECP)

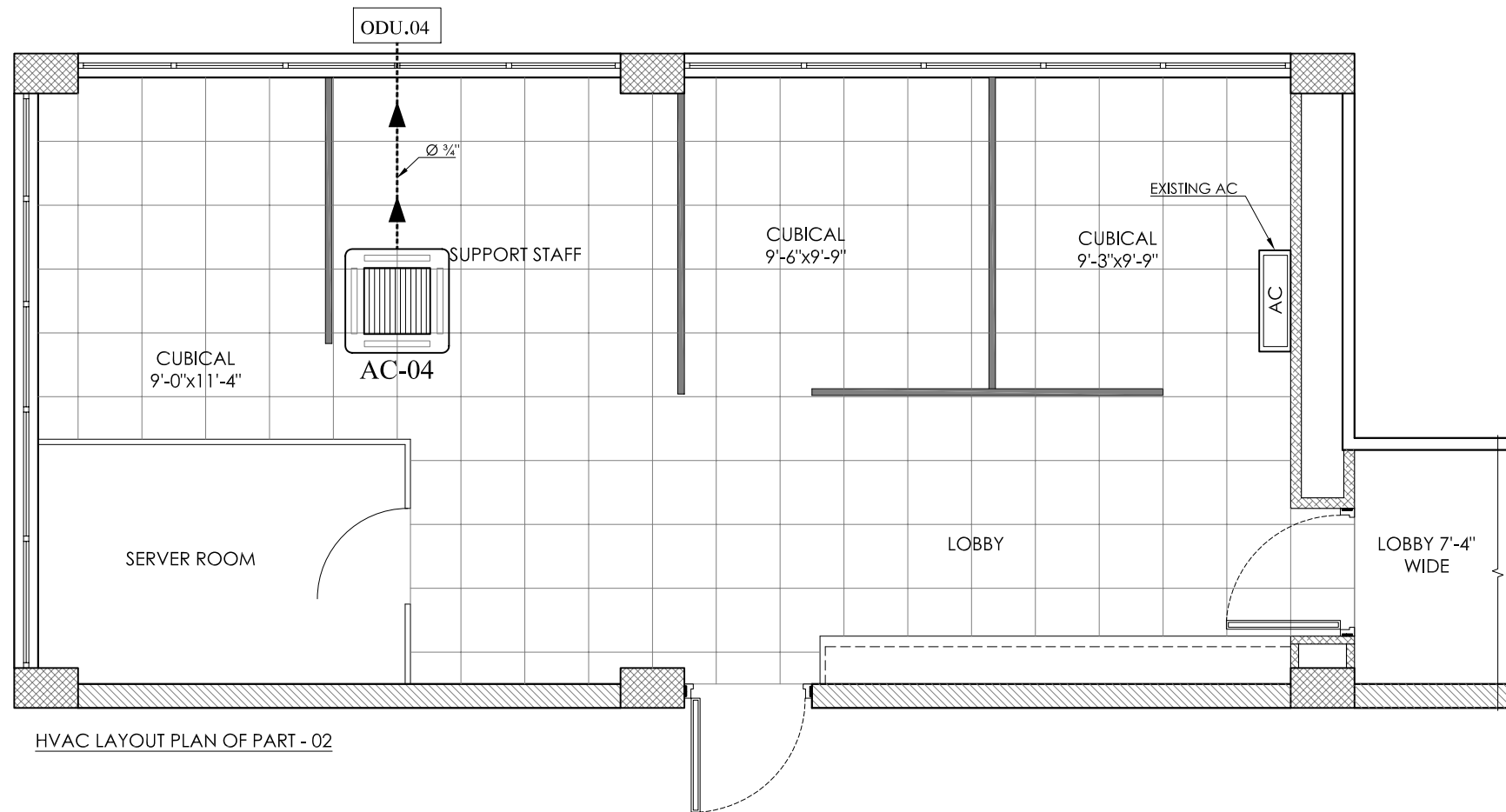
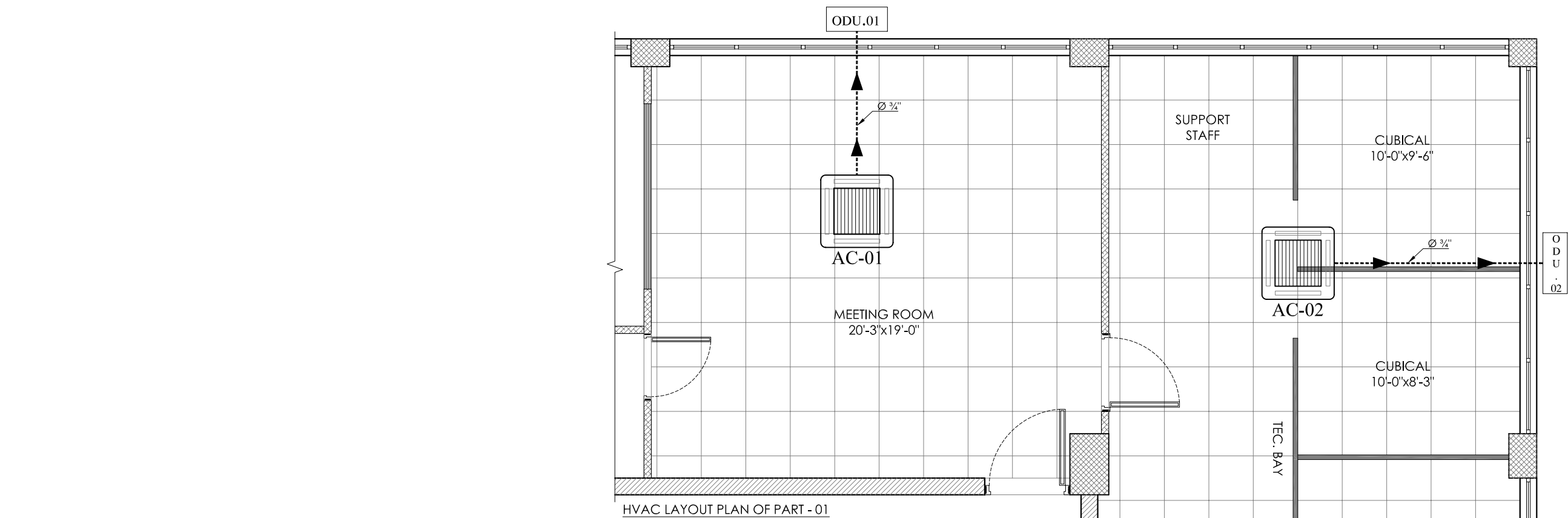
TENDER DRAWING SET (HVAC)



CONSULTANT:

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- Client :
- GENERAL NOTES :**
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MEP CONSULTANT

STRUCTURAL CONSULTANT



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Project:	SECP (DIRECTOR GENERAL OF TRADE ORGANIZATION)
Project Status:	TENDER DRAWINGS
Drawing:	HVAC LAYOUT PLAN (Part-01 & Part-02)
Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S
Project Number: ID - 050	Rev: 0
Drawing Number:	H - 101



Client :

GENERAL NOTES :

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Rev	Description	Date
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K		
M		

MEP CONSULTANT

STRUCTURAL CONSULTANT

ARCHITECT :



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Project: **SECP**
(DIRECTOR GENERAL OF TRADE ORGANIZATION)

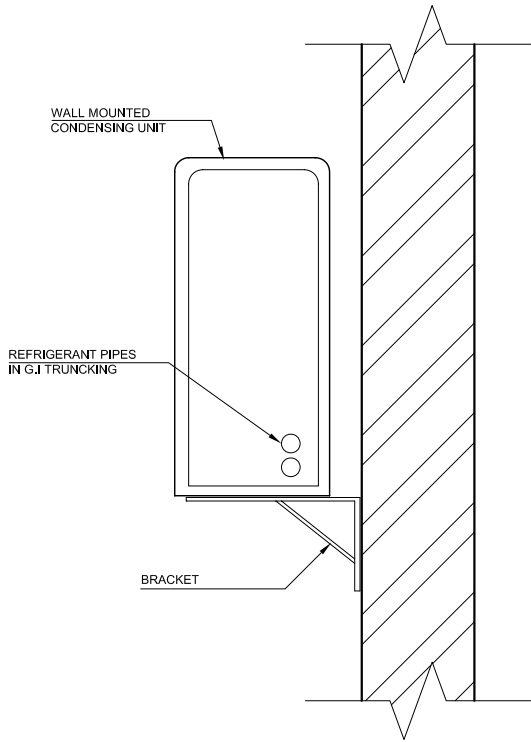
Project Status: **TENDER DRAWINGS**

Drawing: **GENERAL NOTES & TYPICAL
OUTDOOR UNIT**

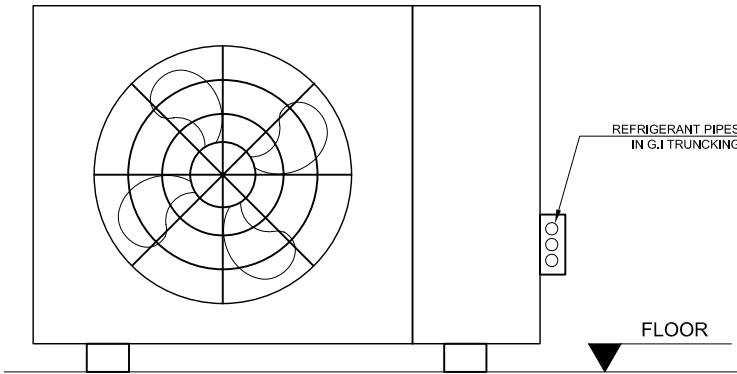
Designed: Muhammad Ibrahim Khan	Checked: Muhammad Ibrahim Khan
Drawn: Mubasher Nazir	Scale: N.T.S

Project Number: ID - 050	Rev: 0
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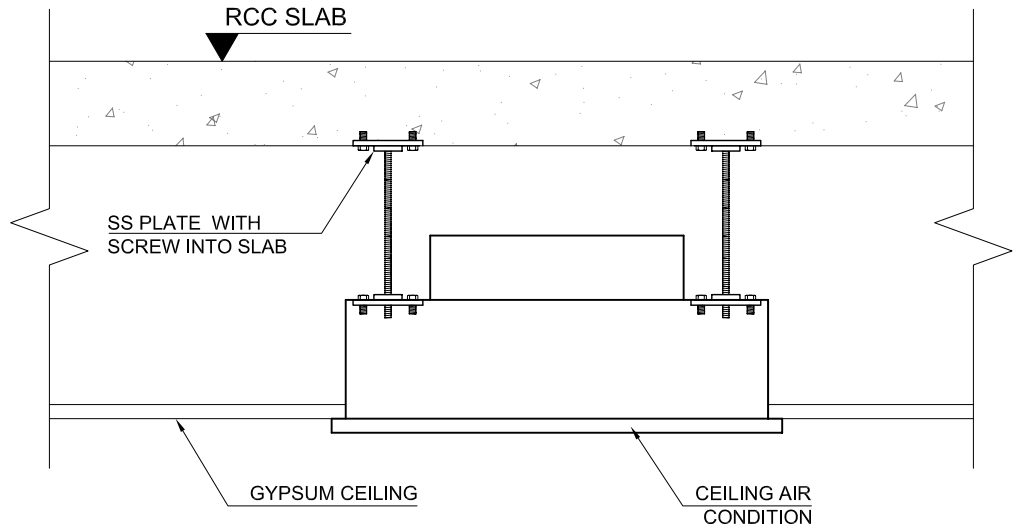
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WALL MOUNTED CONDENSING
UNIT INSTALLATION DETAIL



CONDENSING UNIT
INSTALLATION DETAIL ON FLOOR



CEILING CASSETTE TYPE
AC INSTALLATION

CEILING CASSETTE TYPE SPLIT AIR CONDITION

CEILING CASSETTE TYPE SPLIT AIR CONDITION							
UNIT REFERENCE	QTY	TOTAL COOLING CAPACITY	POWER SUPPLY			ELECTRIC POWER	REMARKS
		BTU/H	VOLTS	PH	HZ	KW	
FIRST FLOOR							
AC-CC # A- 01	4 Nob	18,000	230	1	50	2.68	

NOTE:

THE SELECTION OF AIR CONDITIONING UNIT SHALL BE MADE ON 45 DEGREE CENTIGRADE CONDENSER AIR ENTERING TEMPERATURE