

"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



VICE CHANCELLOR RESIDENCE TENDER DRAWINGS MARCH, 2022

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

HEAD OFFICE:

Office No.B-6 Second Floor Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com

REGIONAL OFFICE:

287-A Street # 06 Cavalry
Ground Cantt. Lahore.

Ph: +92-42-37250130,

LIST OF DRAWINGS

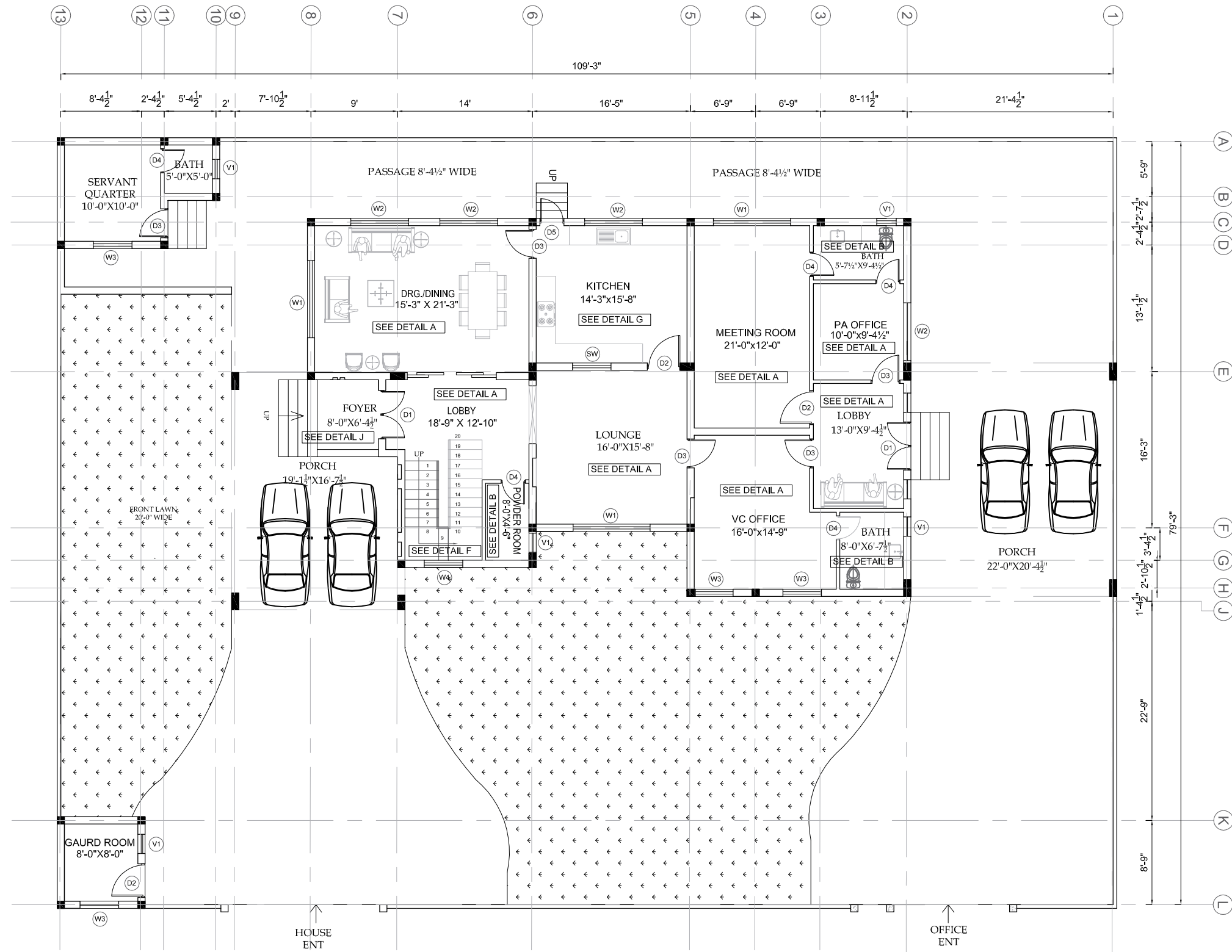
S.NO.	DRAWING TITLE	DRG. NO
ARCHITECTURE DRAWINGS		
1	LIST OF DRAWING	LS-00
2	GROUND FLOOR PLAN	AR-01
3	FIRST FLOOR PLAN	AR-02
4	ROOF PLAN	AR-03
5	ELEVATION E1	AR-04
6	ELEVATION E2	AR-05
7	SCHEDULE OF OPENINGS	AR-06
8	DOOR & WINDOW ELEVATION	AR-07
9	FLOOR FINISHING DETAILS	AR-08
10	STAIR DETAIL	AR-09

ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



DESIGNER: NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"	CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR
TITLE: LIST OF DRAWING	DESIGNED BY: AR.SALMAN
	APPROVED BY:
	DATE: MAR, 2022
	DRAWN BY: RIZWAN
	JOB NO.
	SCALE: N.T.S
	DRG. NO. LS-00



GROUND FLOOR PLAN

COVERED AREA 2098 SFT
 TOTAL COVERED AREA 4701 SFT

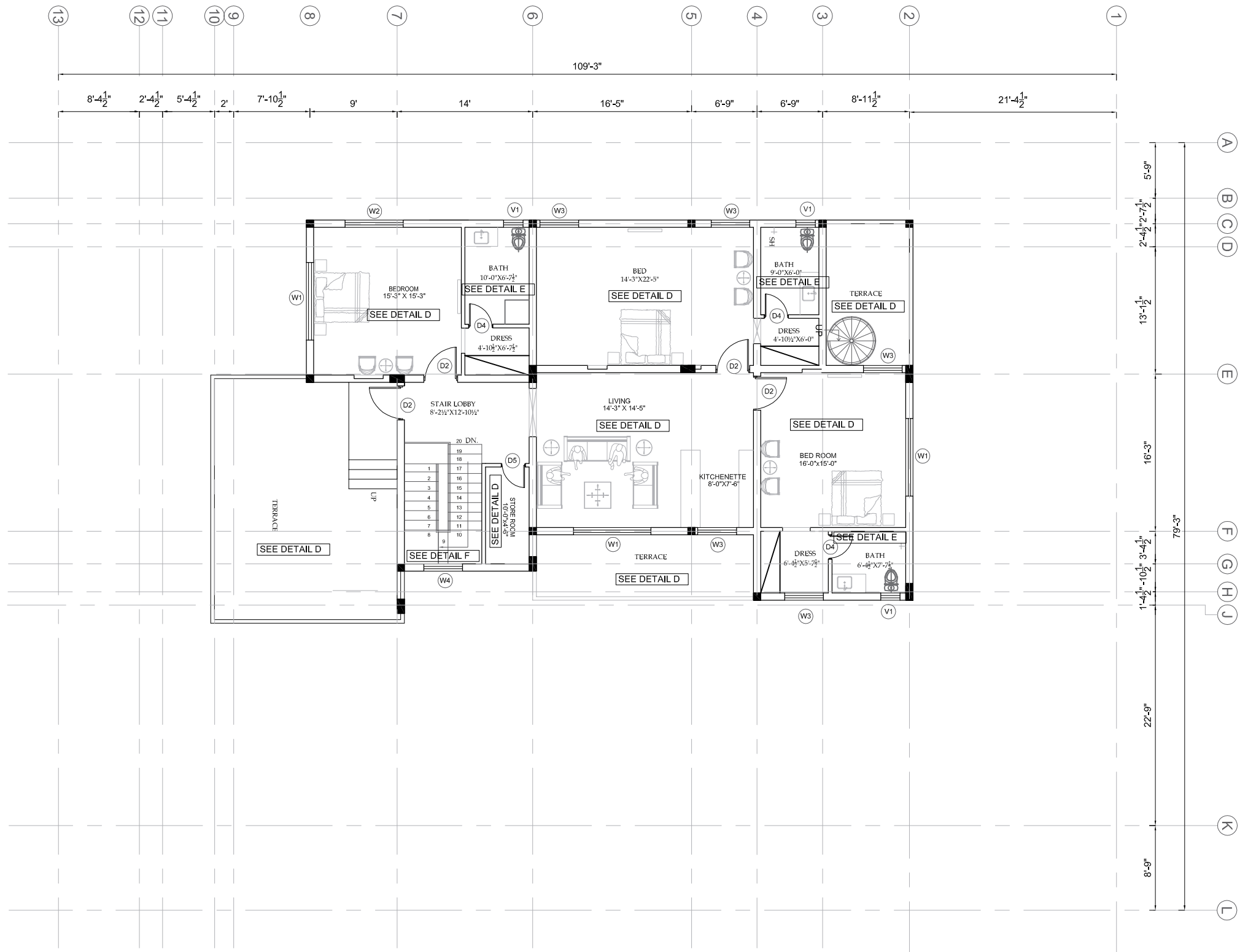
ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY
01	7/10/2021	REVISED PLAN			

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 Head Office: Office No.B-6 Second Floor Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: GROUND FLOOR PLAN

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-01		



FIRST FLOOR PLAN
COVERED AREA 1923 SFT

ADDITION & REVISION				
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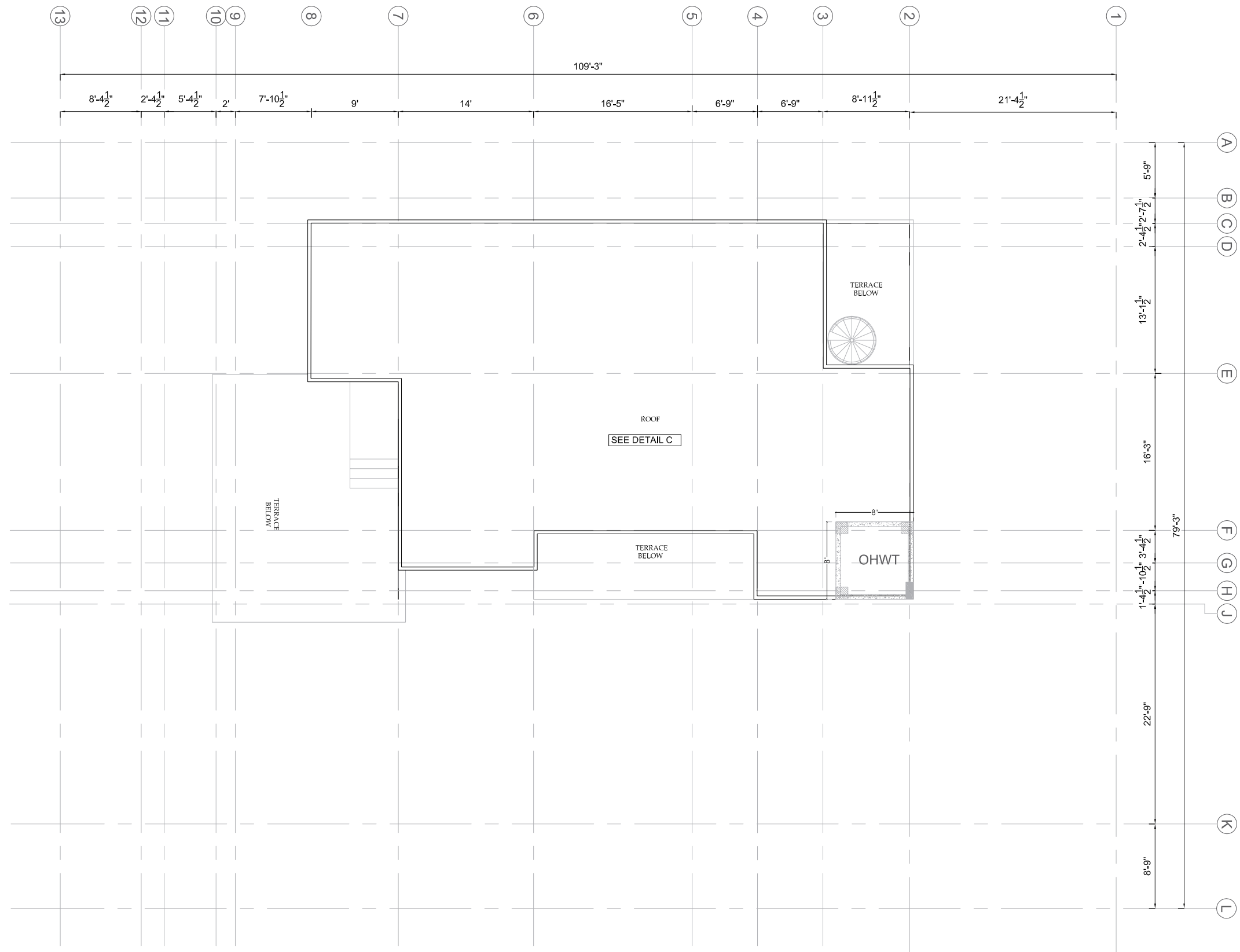
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PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **FIRST FLOOR PLAN**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-02		



ROOF PLAN



ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

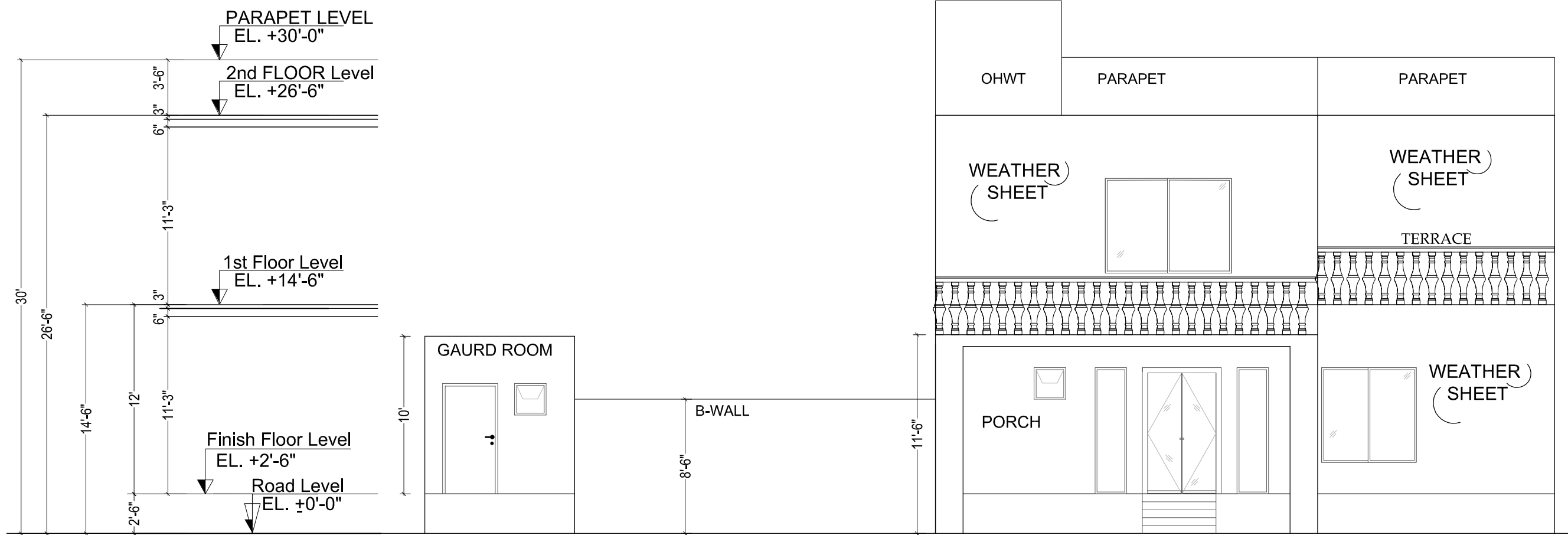
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



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 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **ROOF PLAN**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-03		



E1 ELEVATION E1

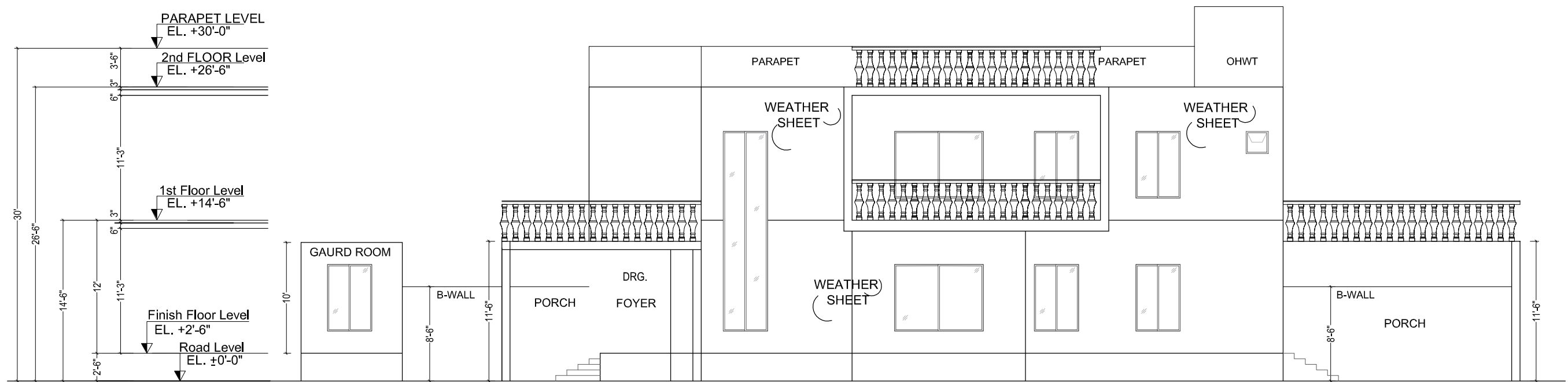
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PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE: **ELEVATION E-2**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-04		



(E2) ELEVATION E2

ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



NEW VISION ENGINEERING CONSULTANT

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IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com

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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

ELEVATION E-1

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:
AR.SALMAN

APPROVED BY:

DATE:
MAR, 2022

DRAWN BY:
SUFYAN

JOB NO.

SCALE:
N.T.S

DRG. NO.

AR-05

SCHEDULE OF OPENINGS

S.NO.	OPENINGS	DIMENSIONS	SILL LEVEL	REMARKS
1	D1	5'-0"X8'-0"	0'-0"	ALUMINUM GLASS DOOR
2	D2	3'-6"X7'-0"	0'-0"	SOLID WOOD DOOR
3	D3	3'-0"X7'-0"	0'-0"	SOLID WOOD DOOR
4	D4	2'-6"X7'-0"	0'-0"	UPVC DOOR
5	D5	2'-6"X7'-0"	0'-0"	SOLID FLUSH DOOR
6	W1	8'-0"X6'-0"	+2'-0"	ALUMINUM WINDOW
7	W2	6'-0"X6'-0"	+2'-0"	ALUMINUM WINDOW
8	W3	4'-0"X6'-0"	+2'-0"	ALUMINUM WINDOW
9	W4	4'-0"X19'-0"	+1'-0"	ALUMINUM WINDOW
10	W5	2'-0"X6'-0"	+2'-0"	ALUMINUM WINDOW
11	SW	4'-0"X3'-6"	+3'-6"	ALUMINUM WINDOW
12	V1	2'-0"X2'-0"	+6'-0"	ALUMINUM WINDOW

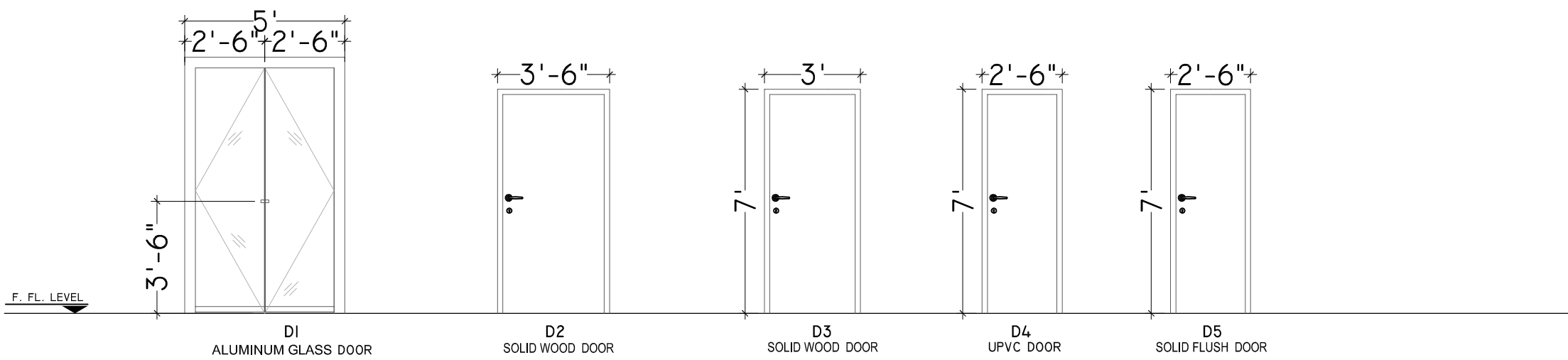
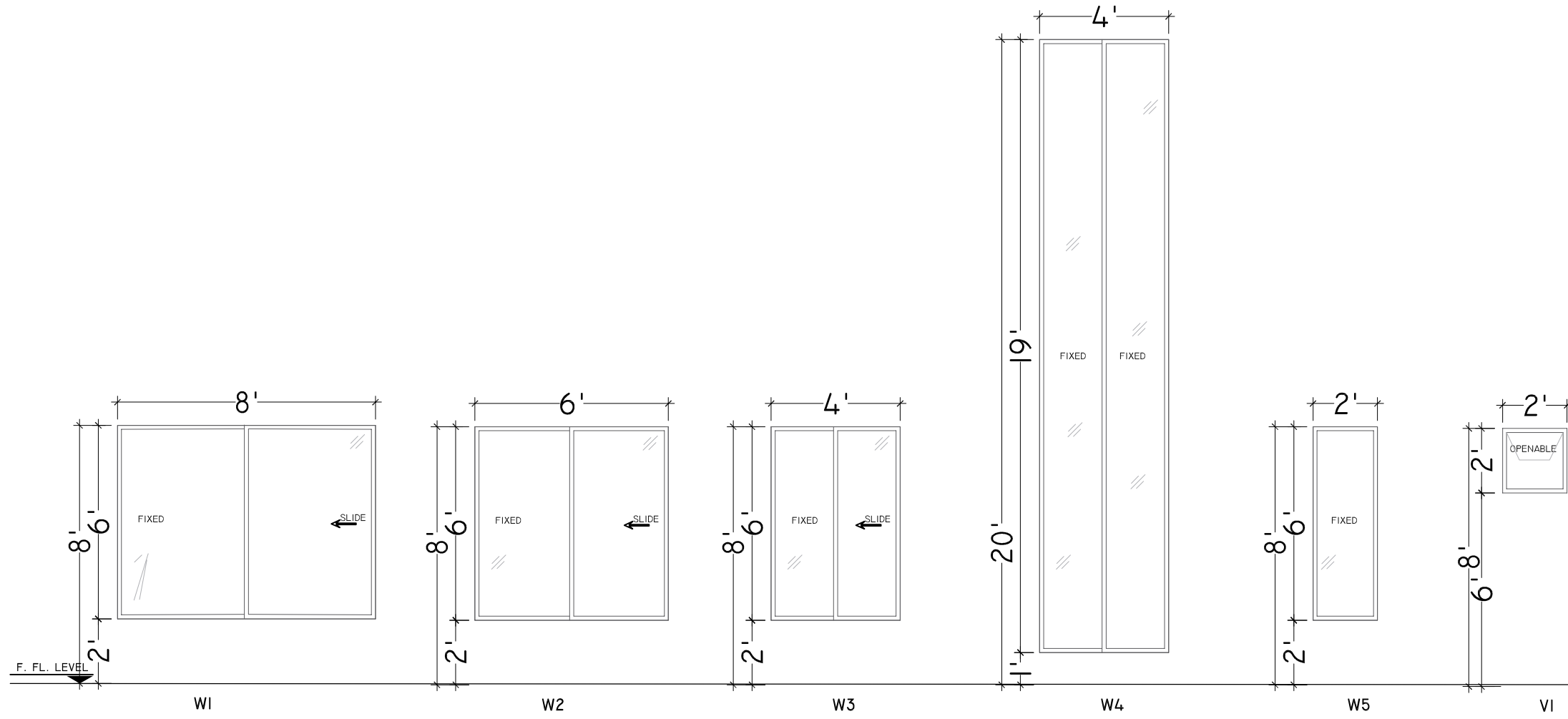
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PROJECT:	"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"	
TITLE:	DOOR & WINDOW SCHEDULE	

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-06		



ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

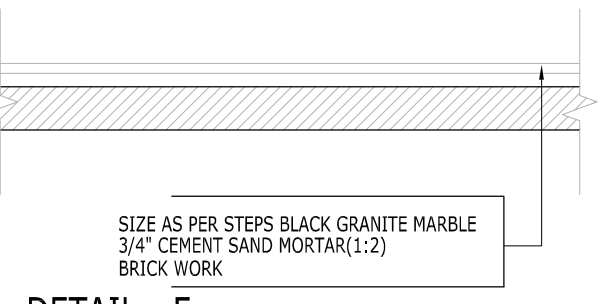
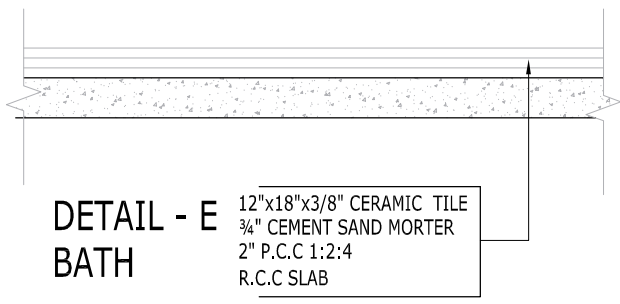
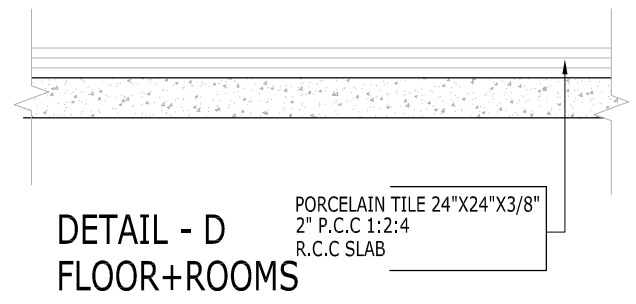
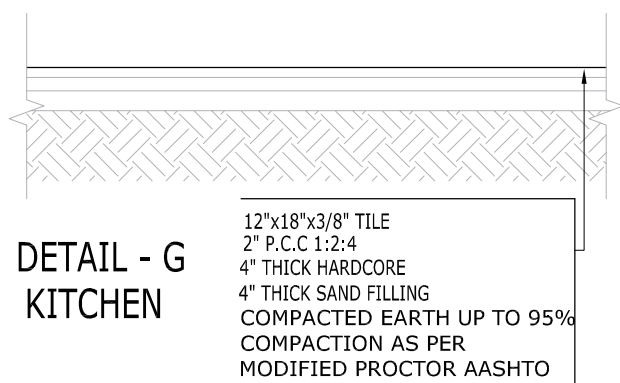
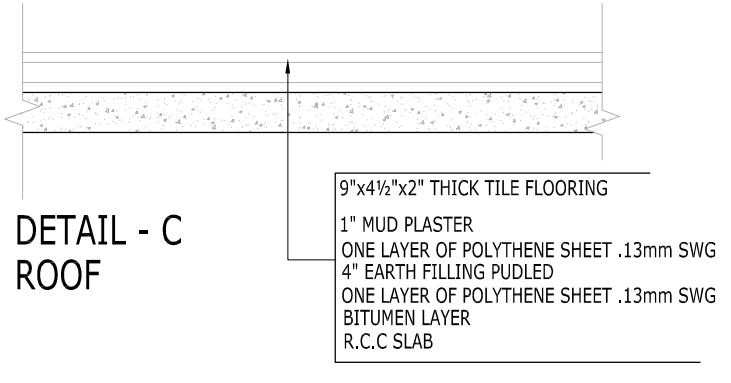
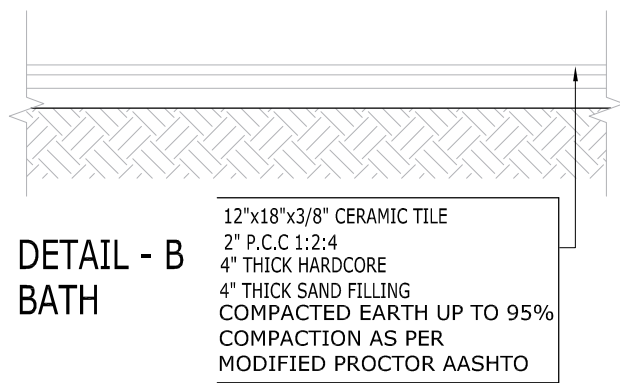
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **DOOR & WINDOW ELEVATION**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-07		



ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

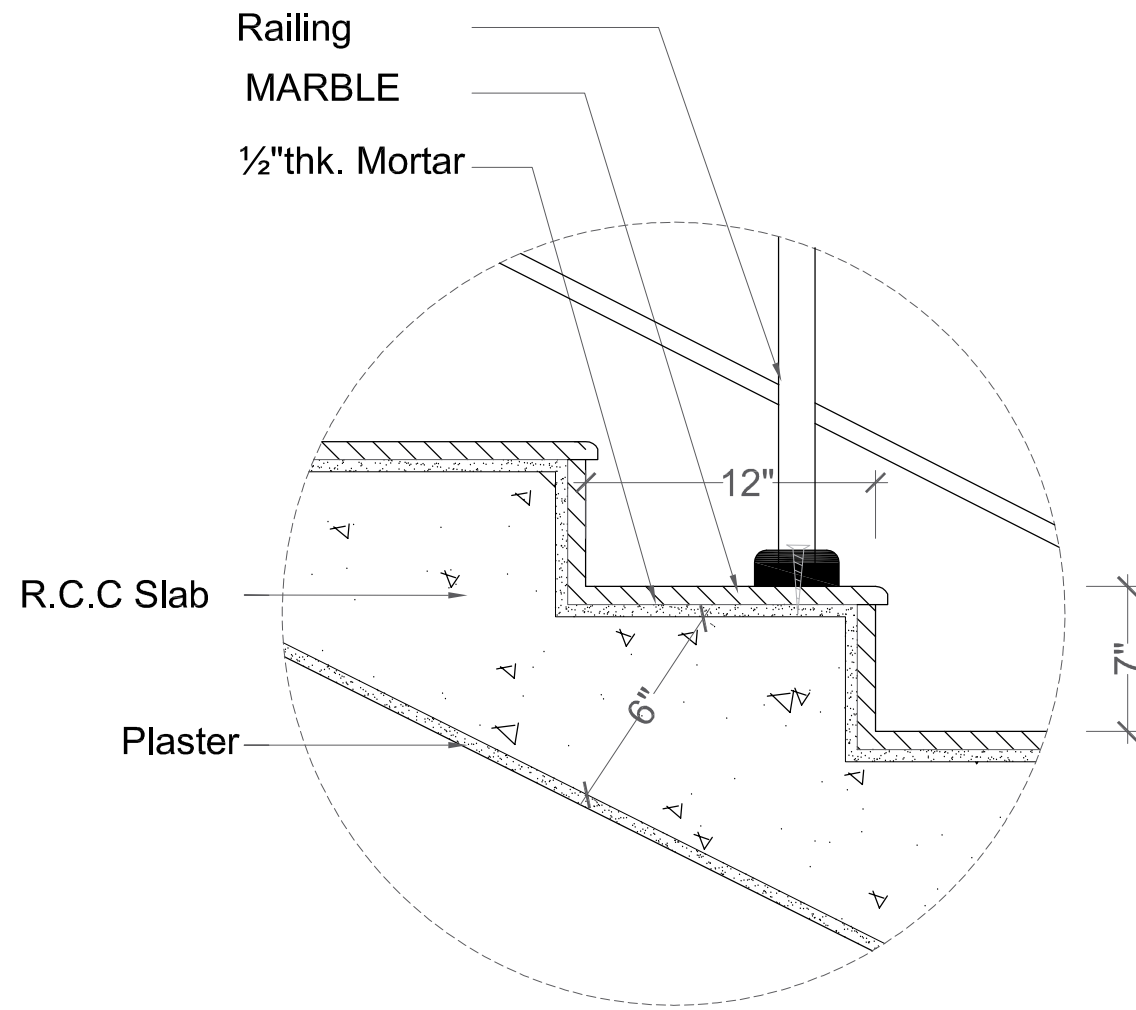
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
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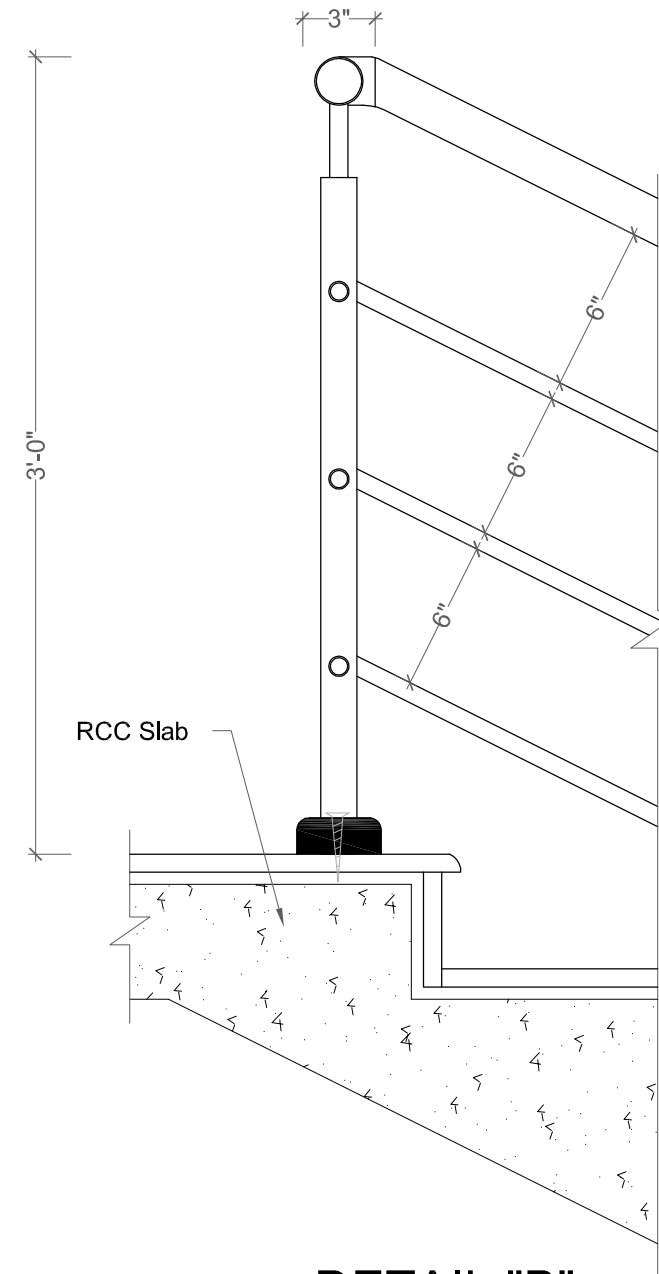
PROJECT: "PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: FLOOR FINISH DETAIL

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY: AR.SALMAN	APPROVED BY:	DATE: MAR, 2022
DRAWN BY: SUFYAN	JOB NO.	SCALE: N.T.S
DRG. NO. AR-08		



DETAIL "A"



DETAIL "B"

ADDITION & REVISION					
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DESIGNER:



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IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

STAIR DETAIL

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:
AR.SALMAN

APPROVED BY:

DATE:
MAR, 2022

DRAWN BY:
SUFYAN

JOB NO.

SCALE:
N.T.S

DRG. NO.

AR-09

STRUCTURE

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
STRUCTURE DRAWINGS		
1	LIST OF DRAWINGS	S-00
2	GENERAL NOTES	S-01
3	TYPICAL DETAILS	S-02
4	TYPICAL DETAILS	S-03
5	GROUND FLOOR FOUNDATION PLAN	S-04
6	FOUNDATION SECTION DETAILS	S-05
7	TYPICAL FOUNDATION SECTION DETAILS	S-06
8	FOUNDATION SECTION DETAILS	S-07
9	GROUND FLOOR COLUMN PLAN	S-08
10	COLUMN SECTION DETAILS	S-09
11	GROUND FLOOR PLAN BEAM LAYOUT	S-10
12	GROUND FLOOR BEAM SECTION	S-11
13	GROUND FLOOR SLAB POSITIVE REINFORCEMENT DETAIL	S-12
14	GROUND FLOOR SLAB NEGATIVE REINFORCEMENT DETAIL	S-13
15	FIRST FLOOR PLAN BEAM LAYOUT	S-14
16	FIRST FLOOR BEAM SECTION	S-15
17	FIRST FLOOR SLAB POSITIVE REINFORCEMENT DETAIL	S-16
18	FIRST FLOOR SLAB NEGATIVE REINFORCEMENT DETAIL	S-17

ADDITION & REVISION			
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DESIGNER:
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PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:
LIST OF DRAWINGS

CLIENT:
SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY: ENG.AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S.
DRG. NO.		ST-00

STRUCTURAL NOTES

GENERAL TECHNICAL NOTES

- Figured dimensions are to be followed.
- Class "A" kiln burnt brick with minimum crushing strength of 2000 PSI should be used & joint at end should be sloppy, Vertical toothed joint at corners are prohibited.
- A steel G-60 deformed steel should be used in beams footing slabs and water retaining structures, in columns, for all diameters.
- All steel should be checked for its quality and placement DETAIL as shown in drawings.
- Extra care is required for proper placement of top reinforcement at support sections and cantilevers.
- Dotted bars designate top reinforcement.
- Provide L- shaped end hooks for all bars at discontinuous ends in footings, walls, beams and slabs as shown in drawings.
- Lap length should be followed As except specified:-
 - 1" \varnothing = 60"
 - 3/4" \varnothing = 45"
 - 5/8" \varnothing = 36"
 - 1/2" \varnothing = 30"
 - 3/8" \varnothing = 23"
- Provide 3/8" dia at 12" c/c as distribution steel if not shown in drawings.
- Minimum concrete cover.
 - Footing = 2" e) Water tank and retaining wall
 - Slabs = 3/4" i- Water/earth face or
 - Beams = 1 1/2" exposed to weather = 2"
 - Columns = 1 1/2" ii- Other faces = 1"

- All footing should be taken below the original Ground Level to achieve the minimum depth as shown in drawings. Footing should not be placed on uncompacted fill area.
- All drawings should be read in conjunction with Architectural Drawings.
- Contractor will co-ordinate all drawings such as architectural, structural, electrical, mechanical, water supply, drainage etc: before execution of work.
- Standard ACI 318, Astm C 33 and Astm A-615 use for structural concrete
- Fine modulus of fine aggregate varies from 2- 3.5mm For concrete use 2.9- 3.2mm For plaster use 2.2- 3.6mm

QUALITY OF CONCRETE

- FOOTINGS & RETAINING WALLS.**
Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

2. COLUMNS.

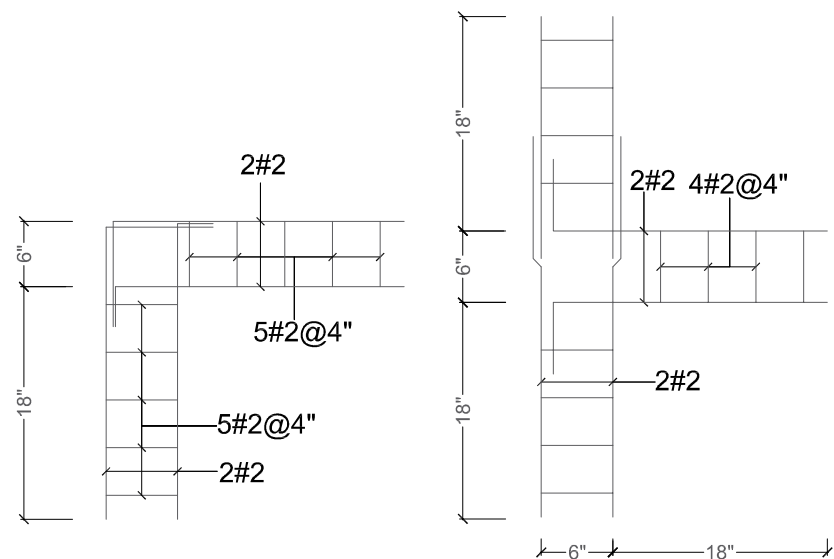
Minimum concrete compressive strength for 6"x12" cylinder to be 4000 psi at 28 days age. Concrete Nominal Mix to be 1:1 1/2:3 or more rich to provide specified strength

3. BEAMS, RIBS & SLABS.

- Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix to be 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)
- Use of plasticizers recommended to reduce the water cement ratio and increase workability of concrete.
 - All concrete mixes to be used, should be got designed & approved before execution of work.
 - Quality, size and gradation of aggregates (fine & course) as used during the mix design, should be strictly adhered with.
 - The Design is in accordance with Seismic Zone 2A.

NOTES

- ALL LAYOUT DIMENSIONS AND F.FLOOR LEVELS TO BE AS PER ARCH DRAWING.
- PROVIDE PLINTH BEAM PB AT PLINTH LEVEL, WALL BEAMS AT SLAB LEVEL.
- PROVIDE #2 DOUBLE-LEG TIE BARS AT 12" CENTRES AT COMMON JOINT BETWEEN WALLS AND COLUMNS. THESE BARS SHOULD PASS INTO WALLS ON EACH SIDE OF COLUMNS.



PLAN OF BRICK WALL TIE FOR CORNER JOINT

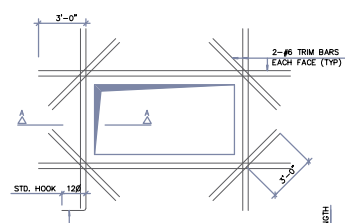
PLAN OF BRICK WALL TIE FOR T- JOINT

REINFORCING STEEL

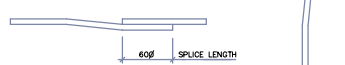
REINFORCING STEEL $f_y = 60,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	17"	15"
#4	0.500	22"	19"
#5	0.625	28"	24"
#6	0.750	35"	29"
#7	0.875	48"	42"
#8	1.000	56"	48"

REINFORCING STEEL $f_y = 40,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	9"	8"
#4	0.500	11"	10"
#5	0.625	14"	12"
#6	0.750	17"	15"
#7	0.875	20"	17"
#8	1.000	28"	19"

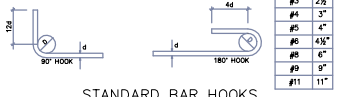
REINFORCING STEEL $f_y = 60,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	12"	12"
#4	0.500	15"	13"
#5	0.625	18"	17"
#6	0.750	23"	20"
#7	0.875	33"	28"
#8	1.000	37"	32"



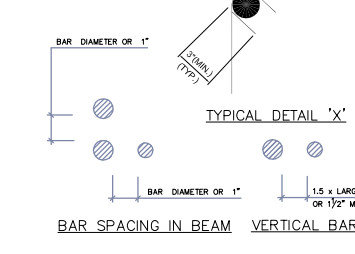
REINFORCEMENT DETAIL AT OPENING IN SLAB & WALLS (TYP)



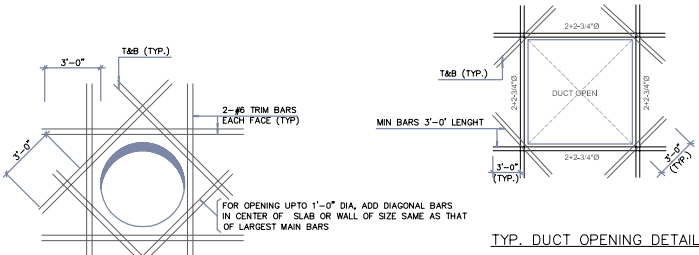
BEAM SPLICE (TYP) COLUMN SPLICE (TYP)



STANDARD BAR HOOKS



STIRRUPS AND TIE HOOKS



REINFORCEMENT AROUND SLEEVE IN SLAB & WALLS (TYP)

NOTES
MAXIMUM DIAMETER OF SLEEVE IS 1'-0", FOR TRIM BARS AROUND LARGE SLEEVE REFER TO OTHER DETAIL.

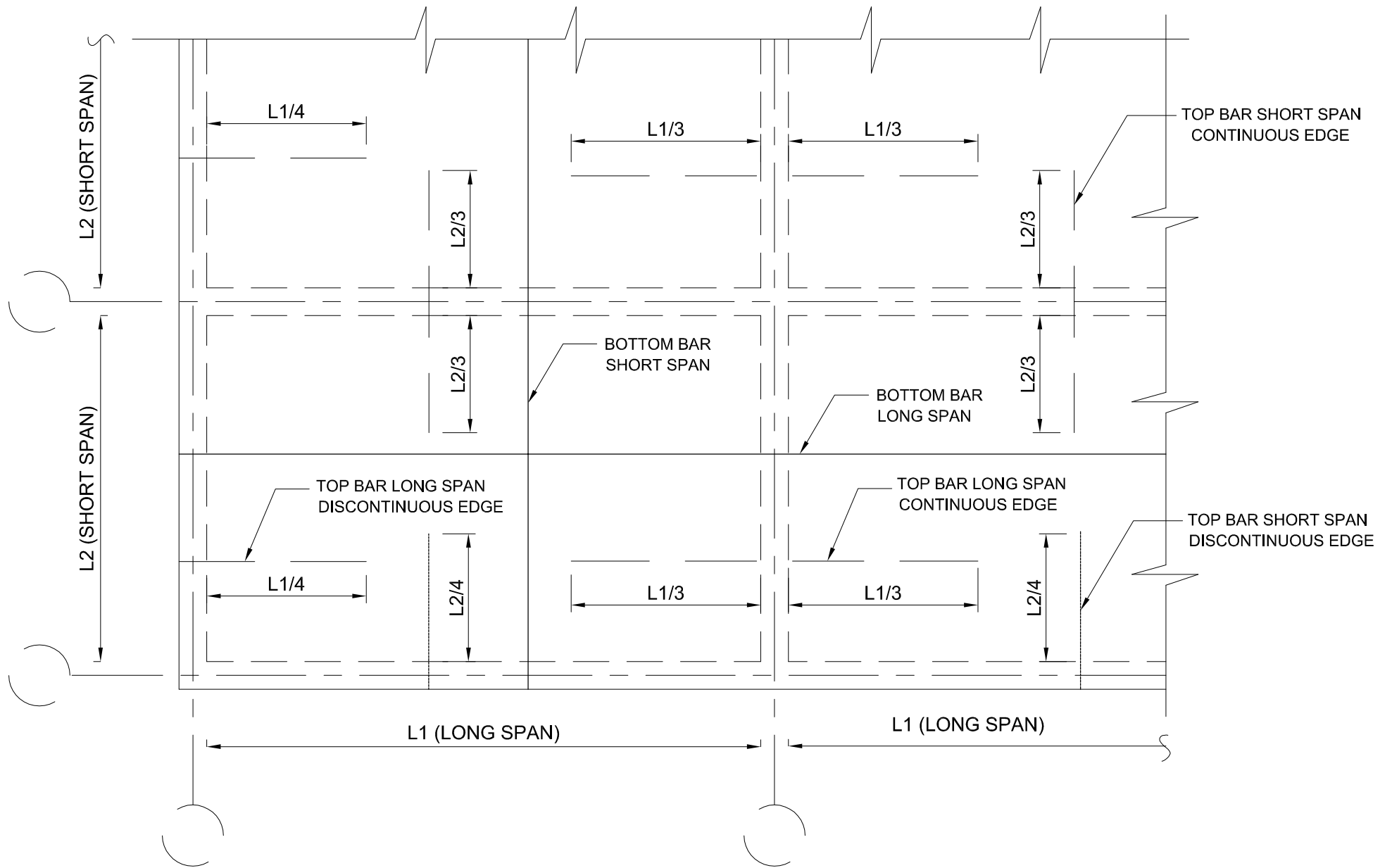
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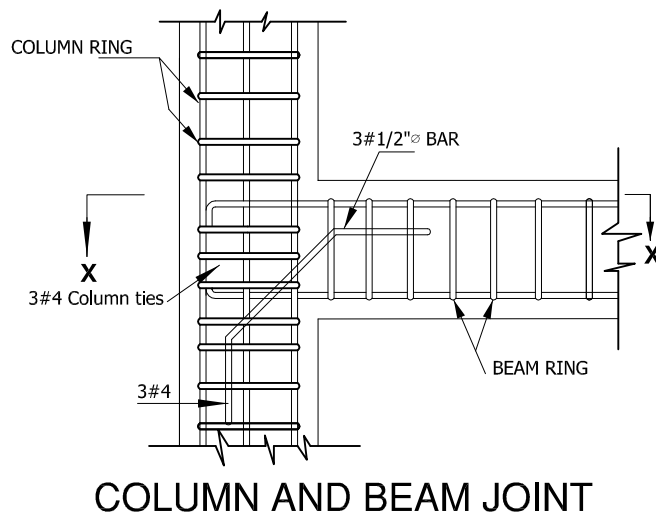
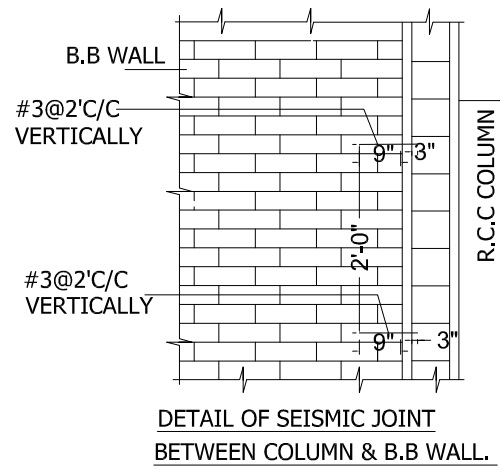
PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: GENERAL NOTES

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-01	



TYP. SLAB REINFORCEMENT
SCALE: NTS



ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER

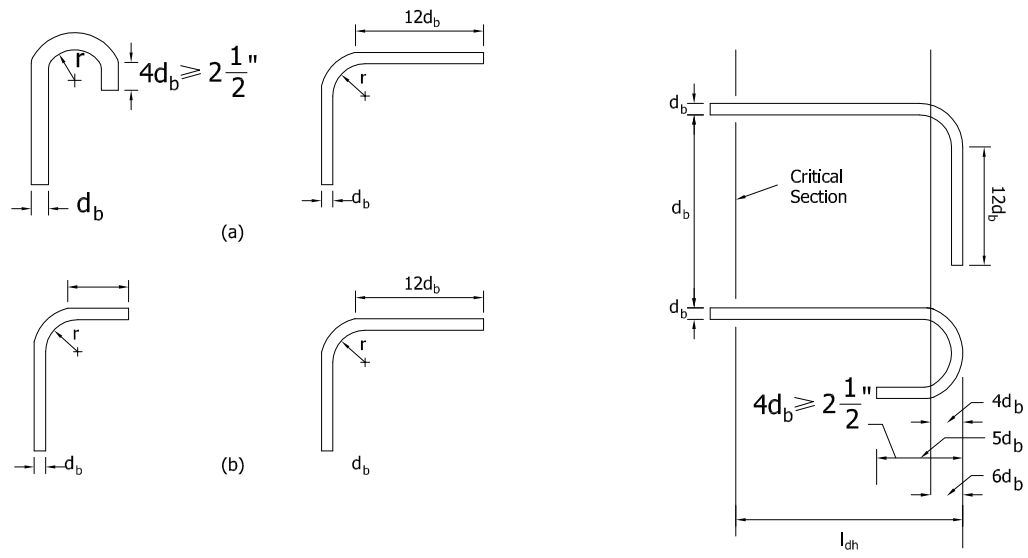
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



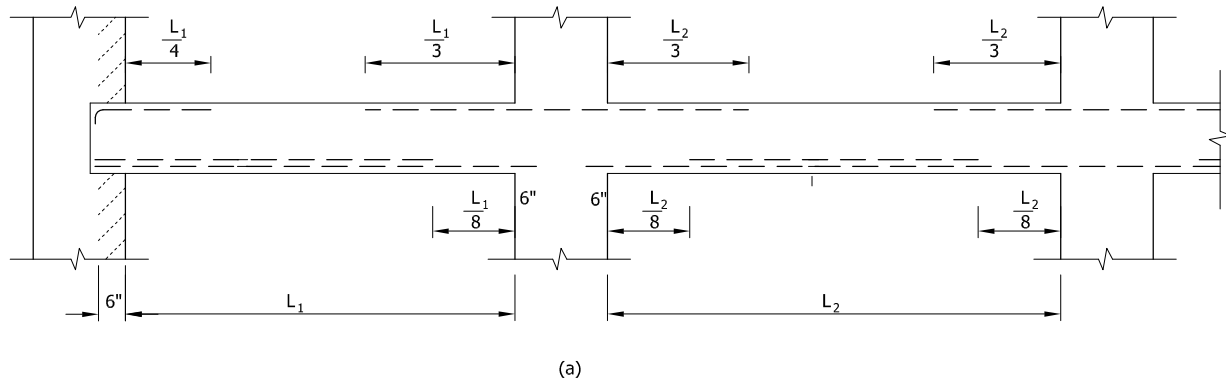
PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: TYPICAL DETAILS

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR

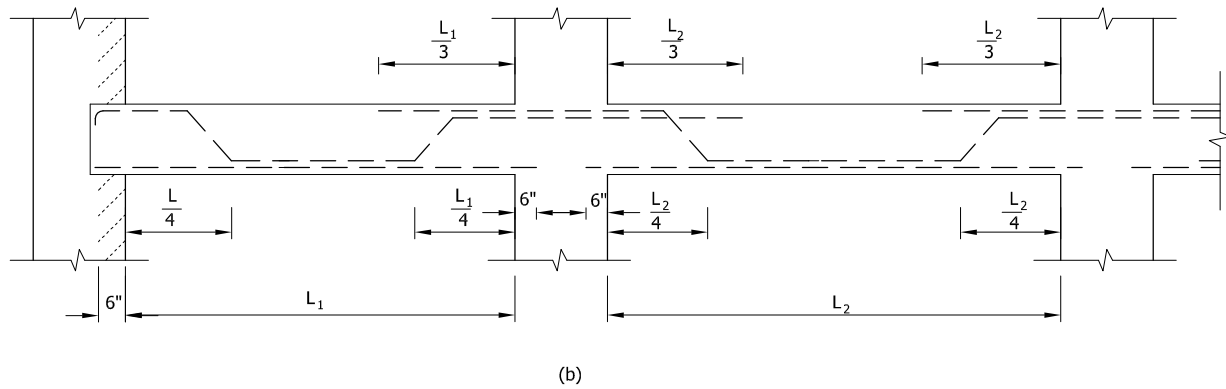
DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-02	



STANDARD HOOKS

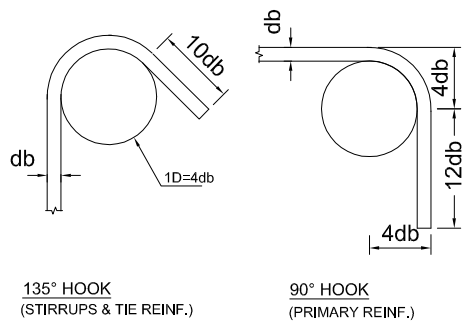


(a)



(b)

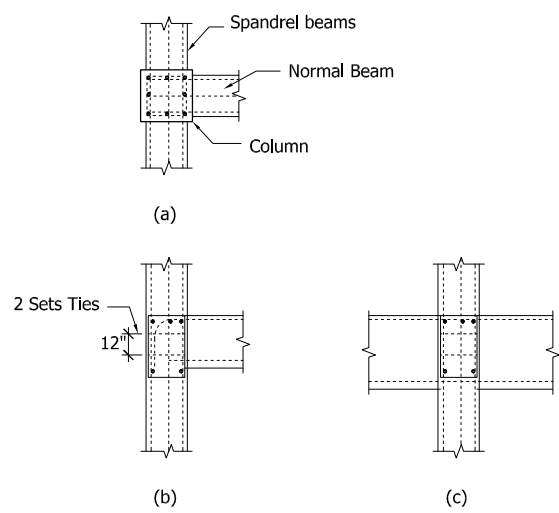
BEAM REINFORCEMENT DETAILING THROUGH COLUMNS



135° HOOK
(STIRRUPS & TIE REINF.)

90° HOOK
(PRIMARY REINF.)

BAR BENDS



(a)

(b)

(c)

COLUMN AND BEAM JOINT FOR SEISMIC FORCE CONTROL

ADDITION & REVISION			

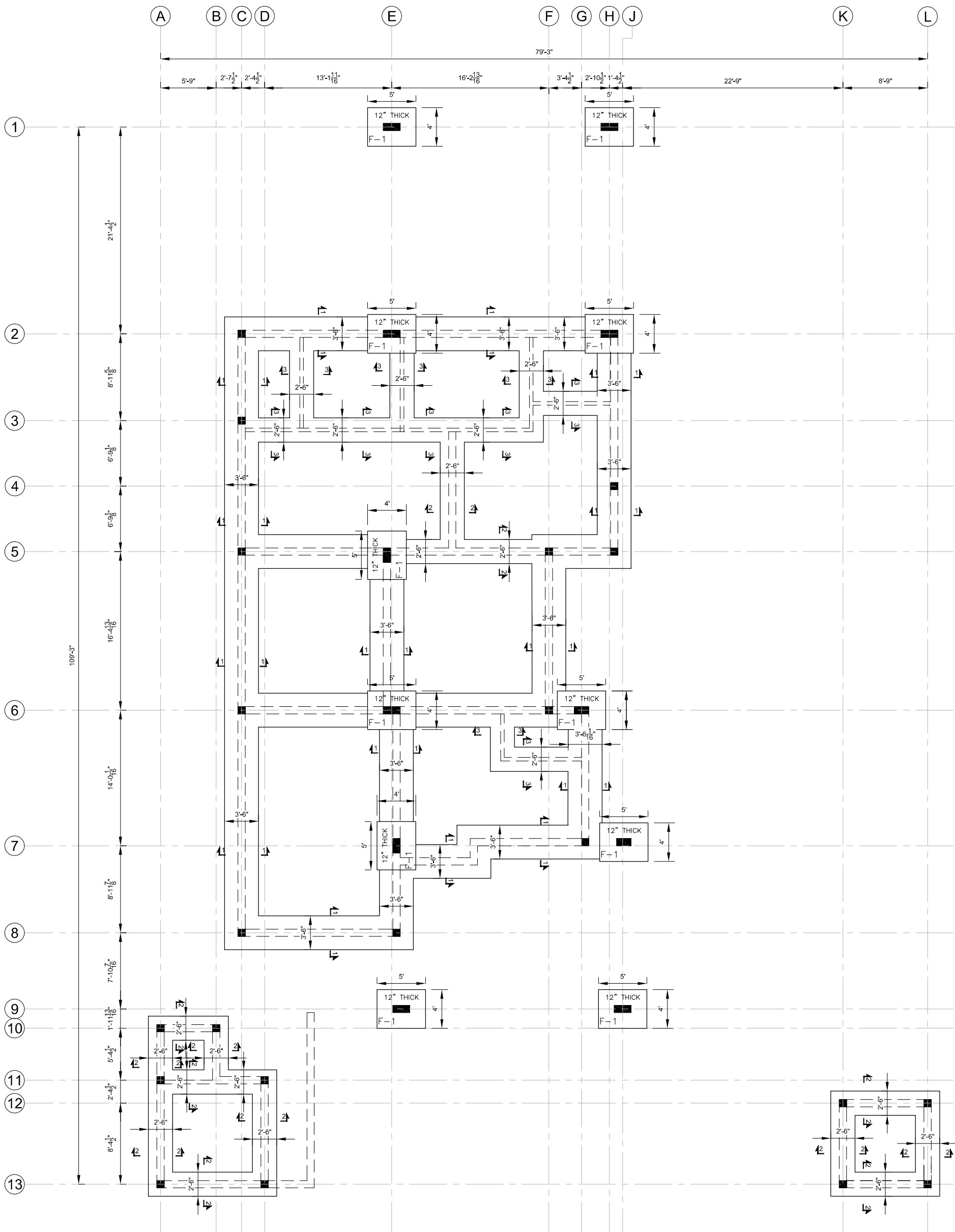
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **TYPICAL DETAILS**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-03	



FOUNDATION LAYOUT PLAN

ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER/CHKD/APP'D

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130

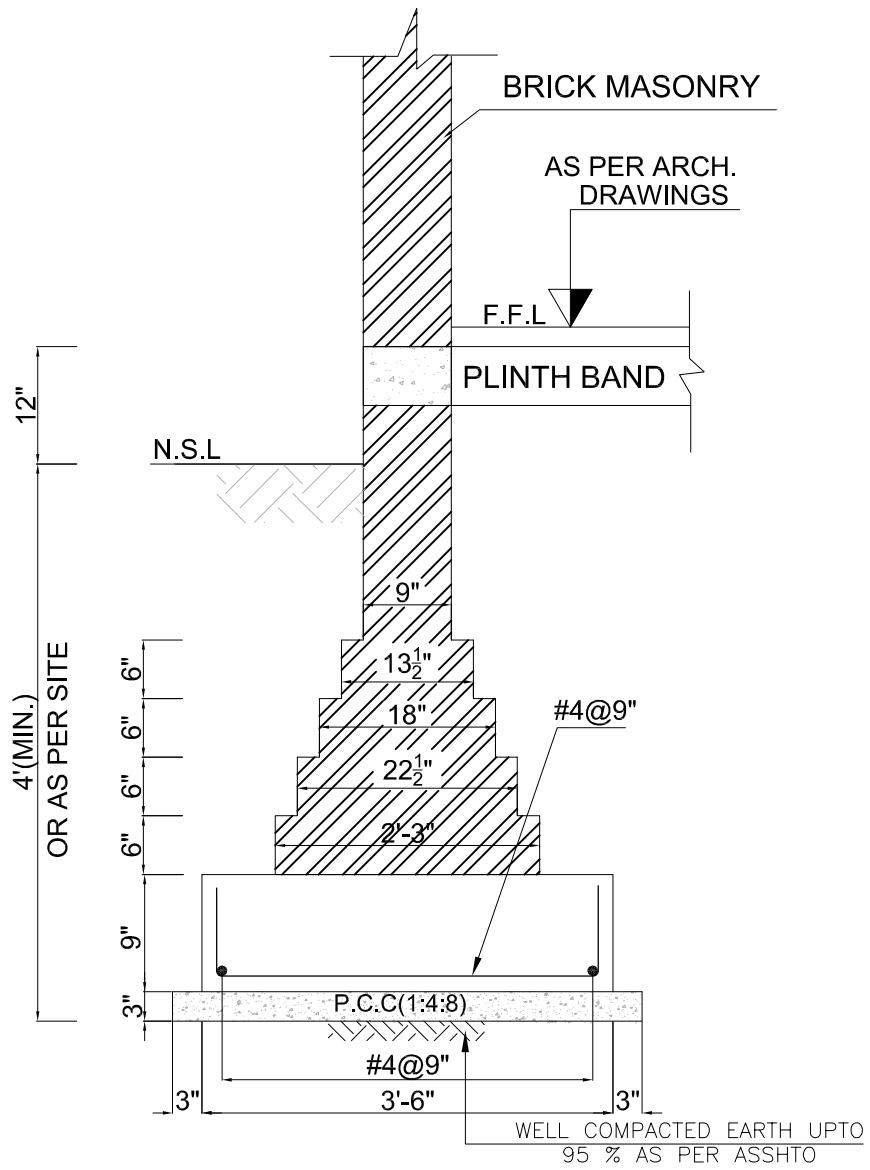


PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

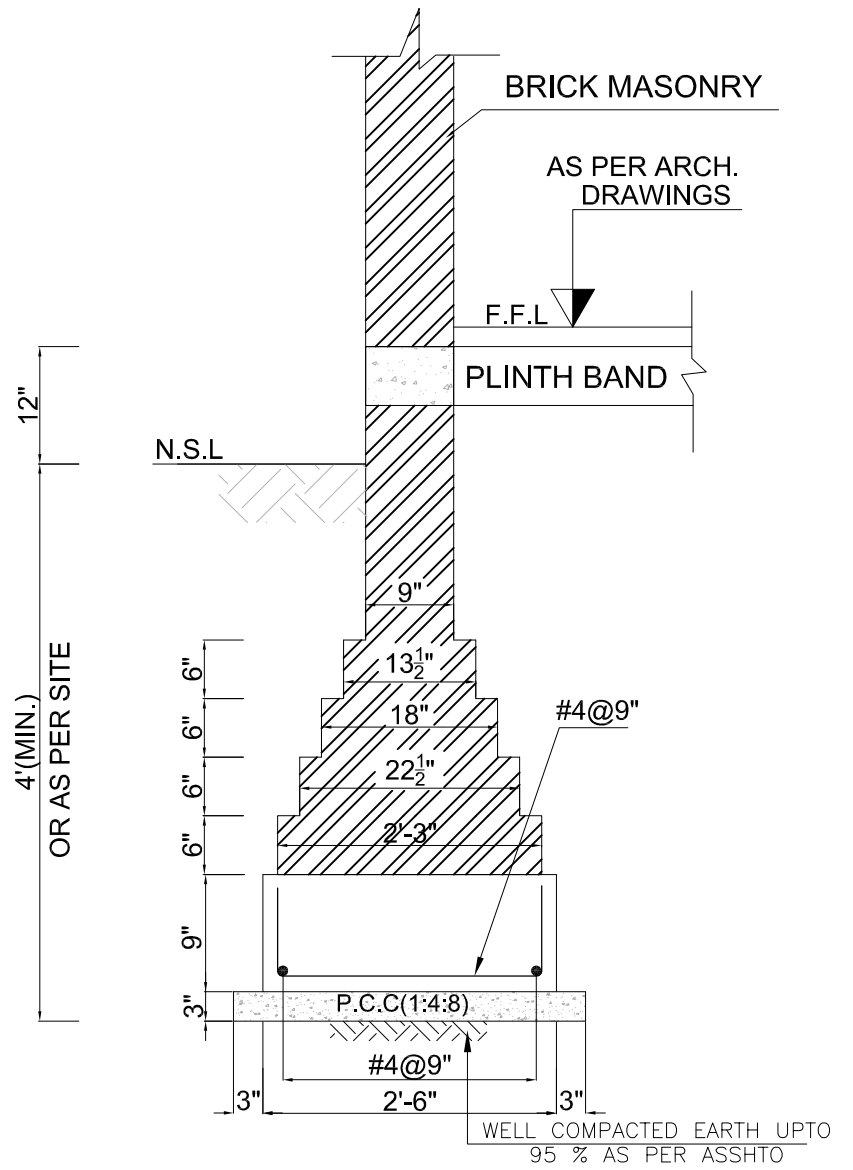
TITLE: **FOUNDATION
 LAYOUT PLAN**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

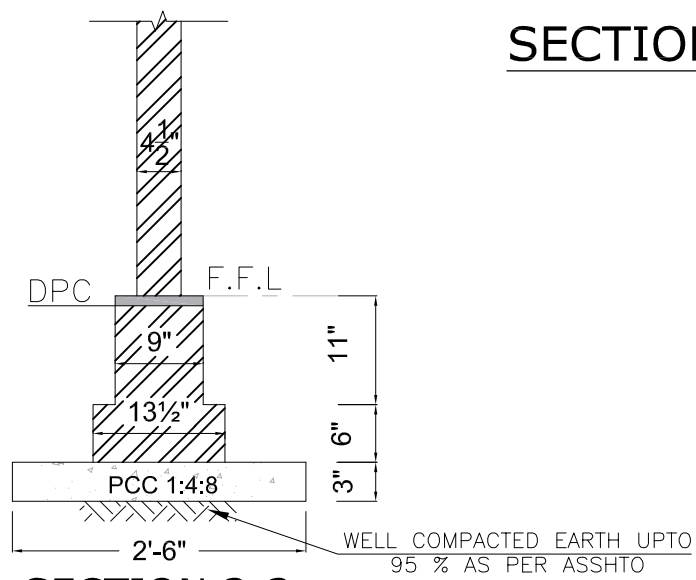
DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-04	



SECTION 1-1



SECTION 2-2



SECTION 3-3

ADDITION & REVISION			
NO.	REV.	DATE	DESCRIPTION

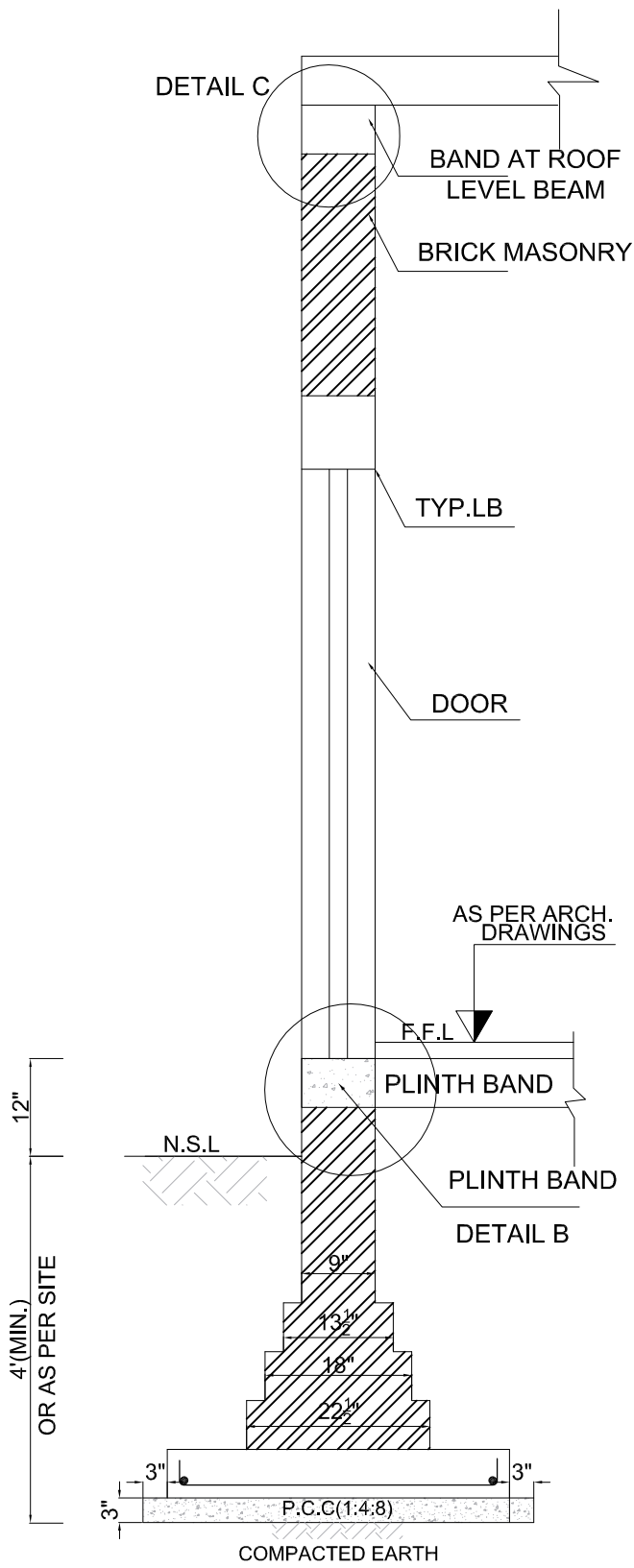
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



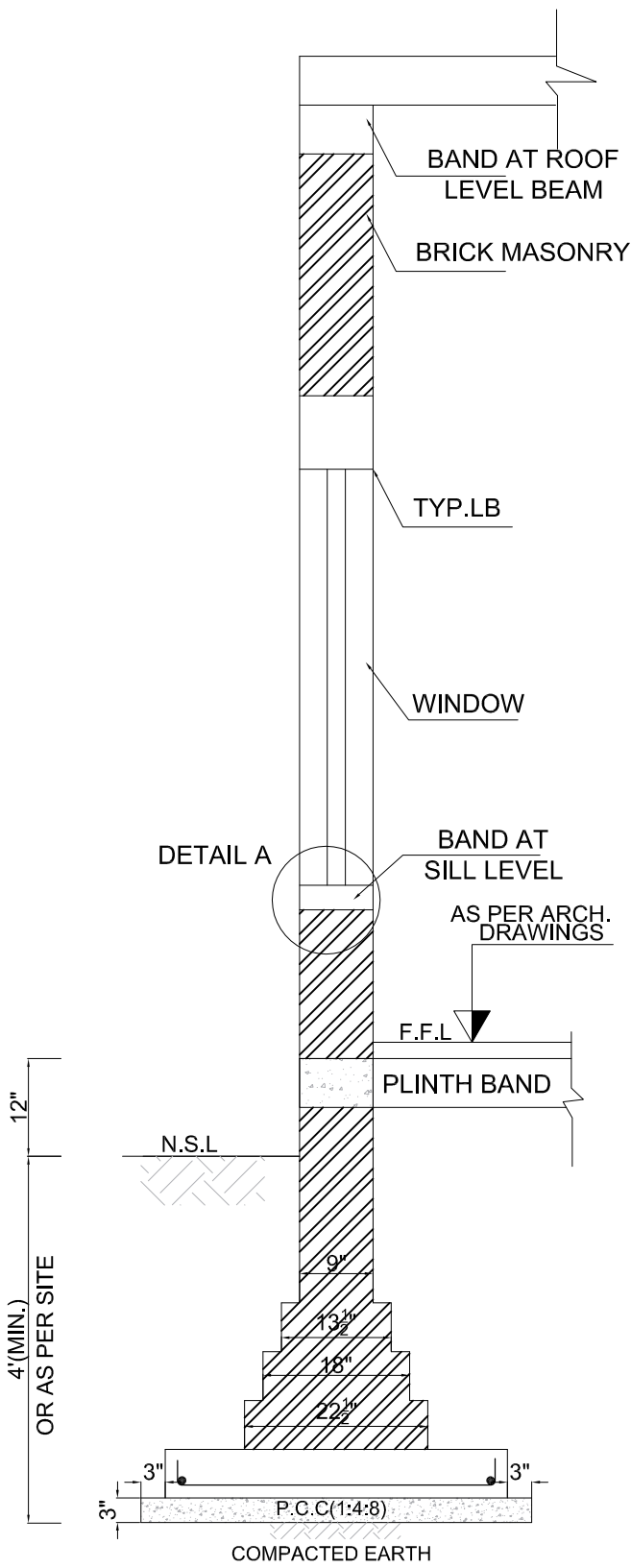
PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **FOUNDATION SECTION DETAIL**

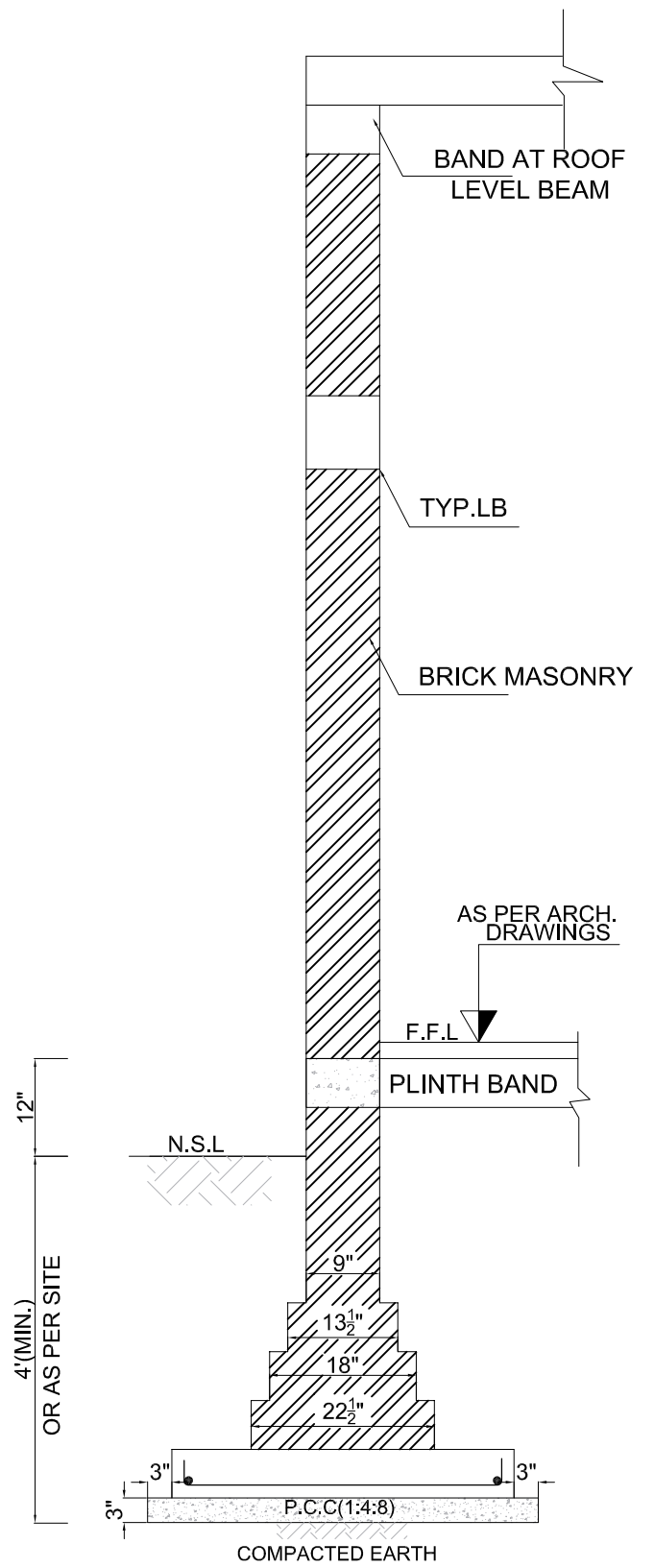
CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY:	APPROVED BY:	DATE:
ENG. AHSAN		MARCH, 2022
DRAWN BY:	JOB NO.	SCALE:
RIZWAN		N.T.S.
DRG. NO.	ST-05	



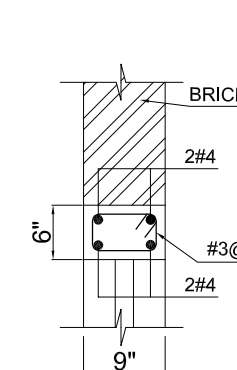
FOOTING BELOW DOOR OPENING



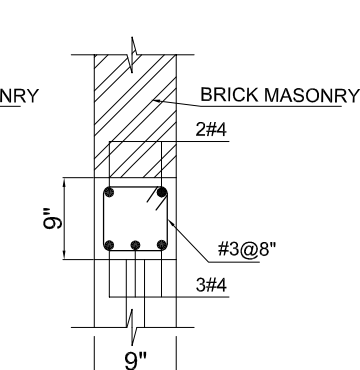
FOOTING BELOW WINDOW OPENING



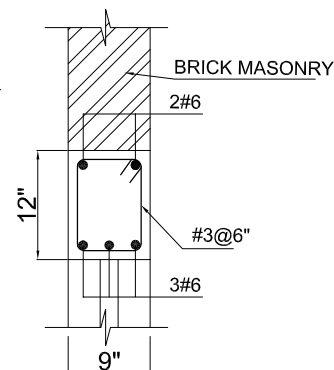
FOOTING BELOW MASONRY OPENING



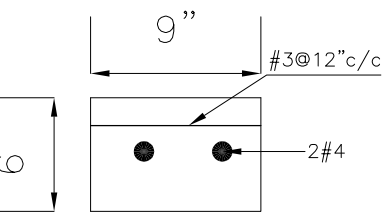
SEC. OF TYP.LB AT OPENINGS UPTO 6' LENGTH



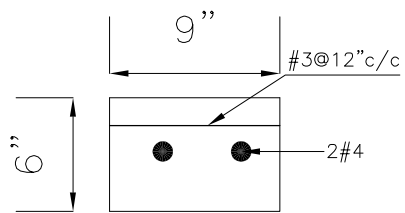
SEC. OF TYP.LB AT OPENINGS UPTO 10' LENGTH



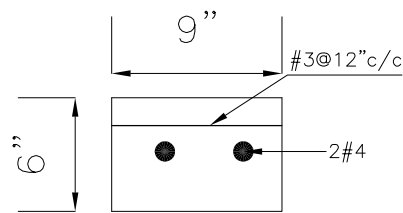
SEC. OF TYP.LB AT OPENINGS UPTO 15' LENGTH



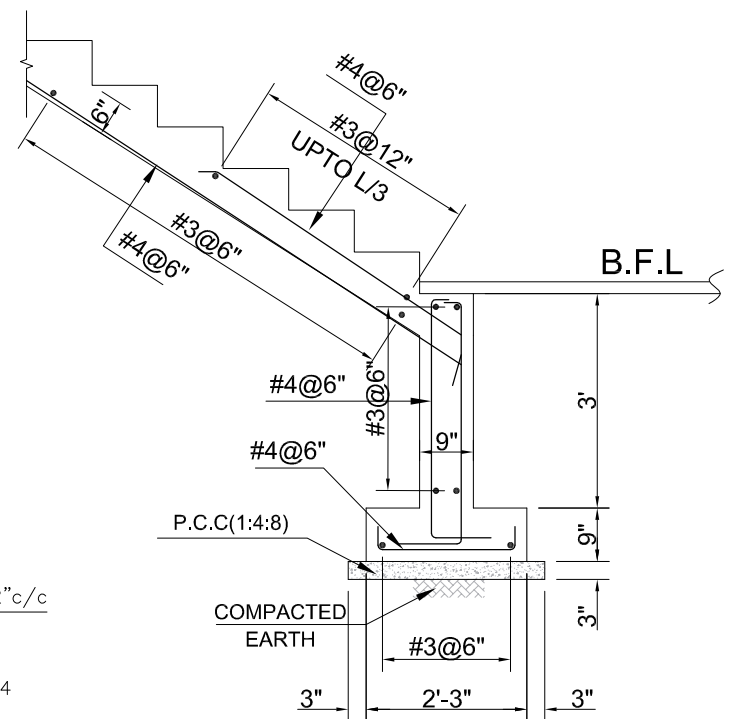
DETAIL A BAND AT SILL LEVEL



DETAIL B PLINTH BAND



DETAIL C BAND AT ROOF LEVEL



STAIR CASE SECTION

ADDITION & REVISION	

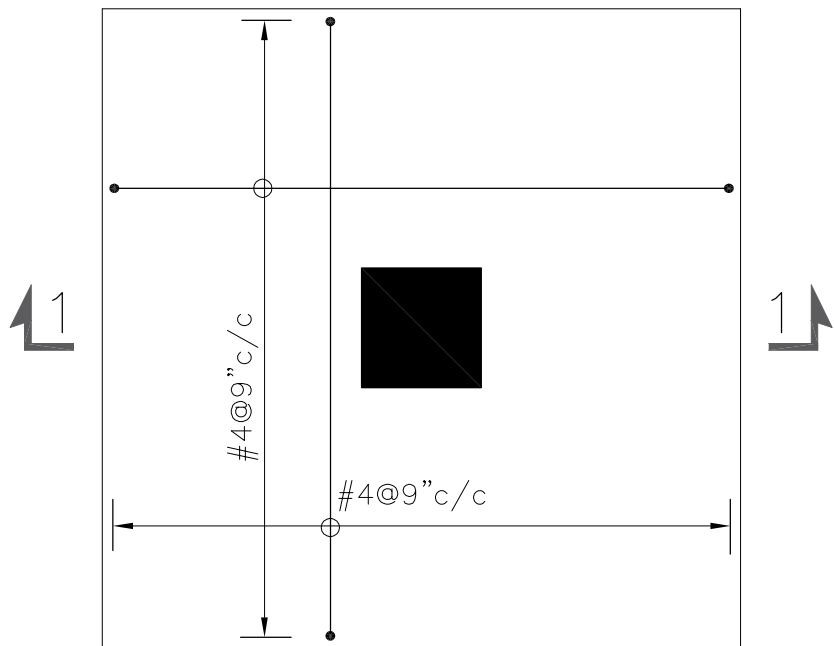
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 JP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



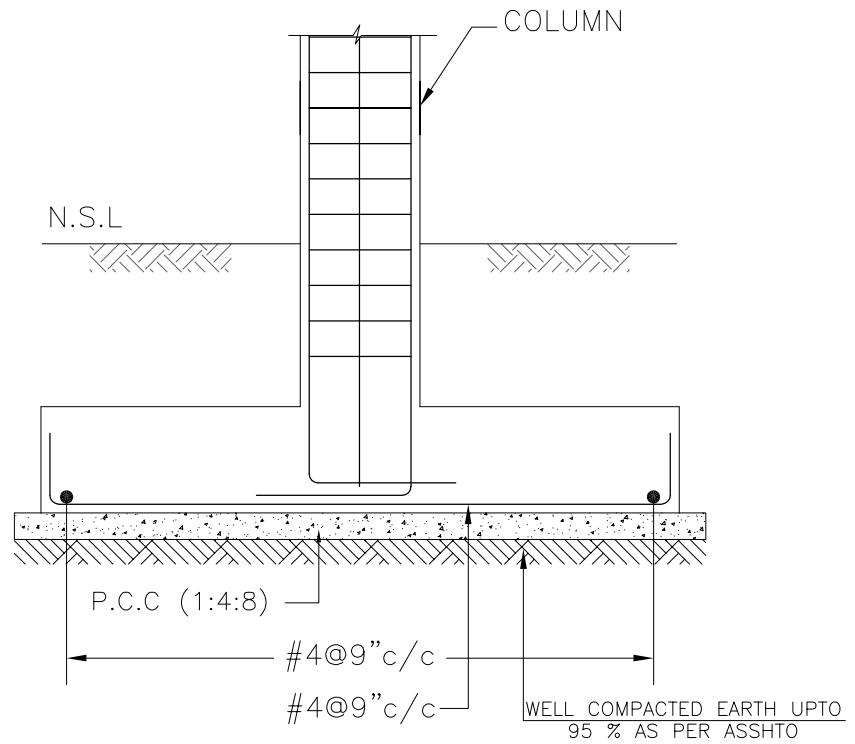
PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: **TYPICAL FOUNDATION SECTION DETAILS**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

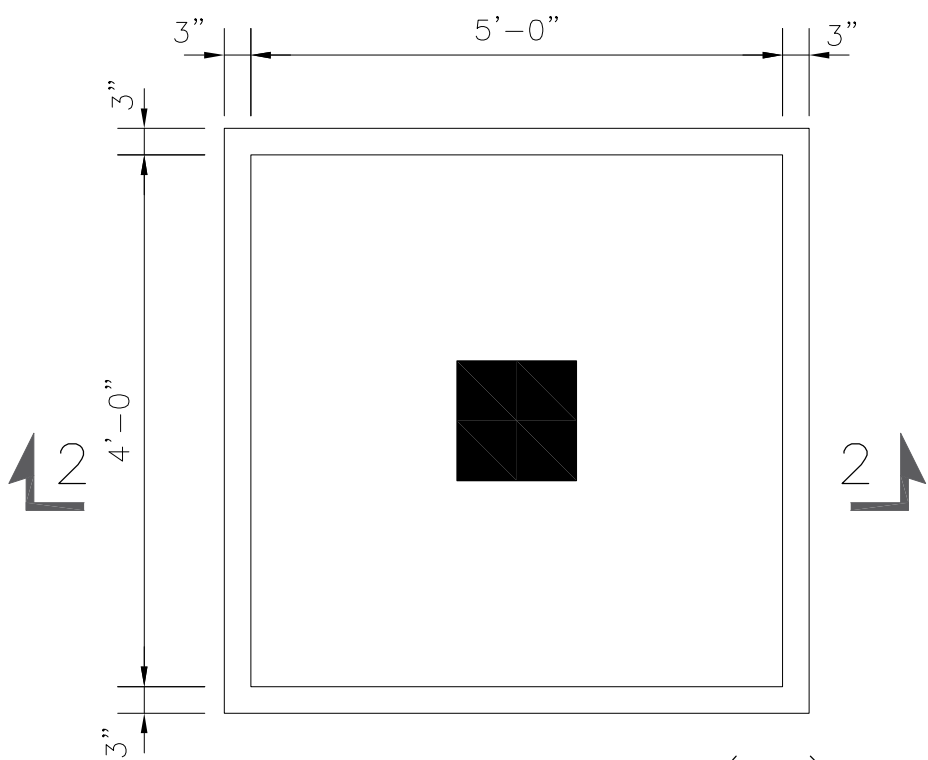
DESIGNED BY: ENG.AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S.
DRG. NO.	ST-06	



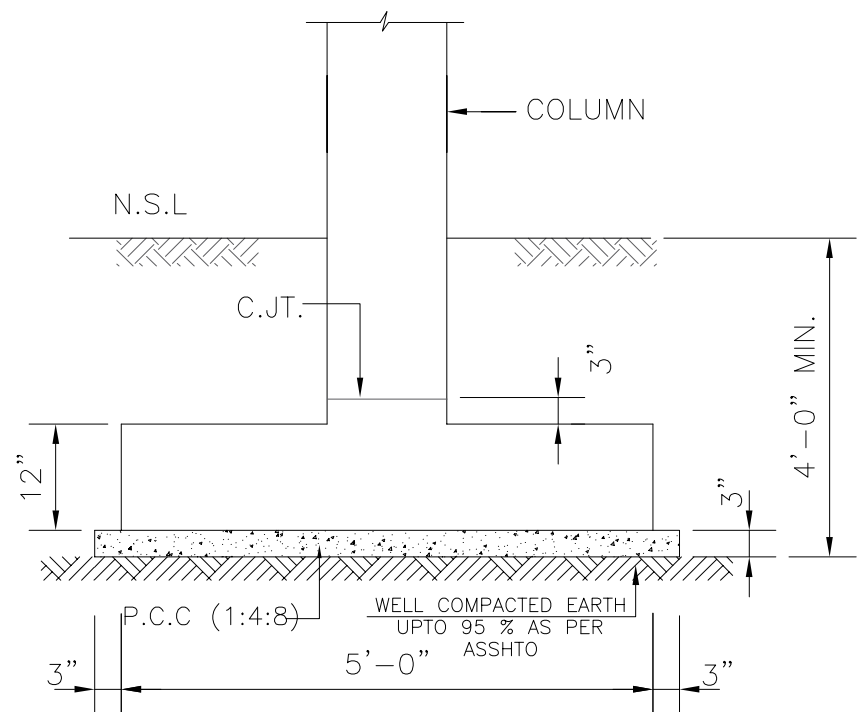
ISOLATED FOOTING (F1)
REINFORCEMENT DETAILS



SECTION 1-1
REINFORCEMENT DETAILS



ISOLATED FOOTING (F1)
CONCRETE OUTLINE



SECTION 2-2
CONCRETE OUTLINE

ADDITION & REVISION			
NO.	REV.	DATE	DESCRIPTION

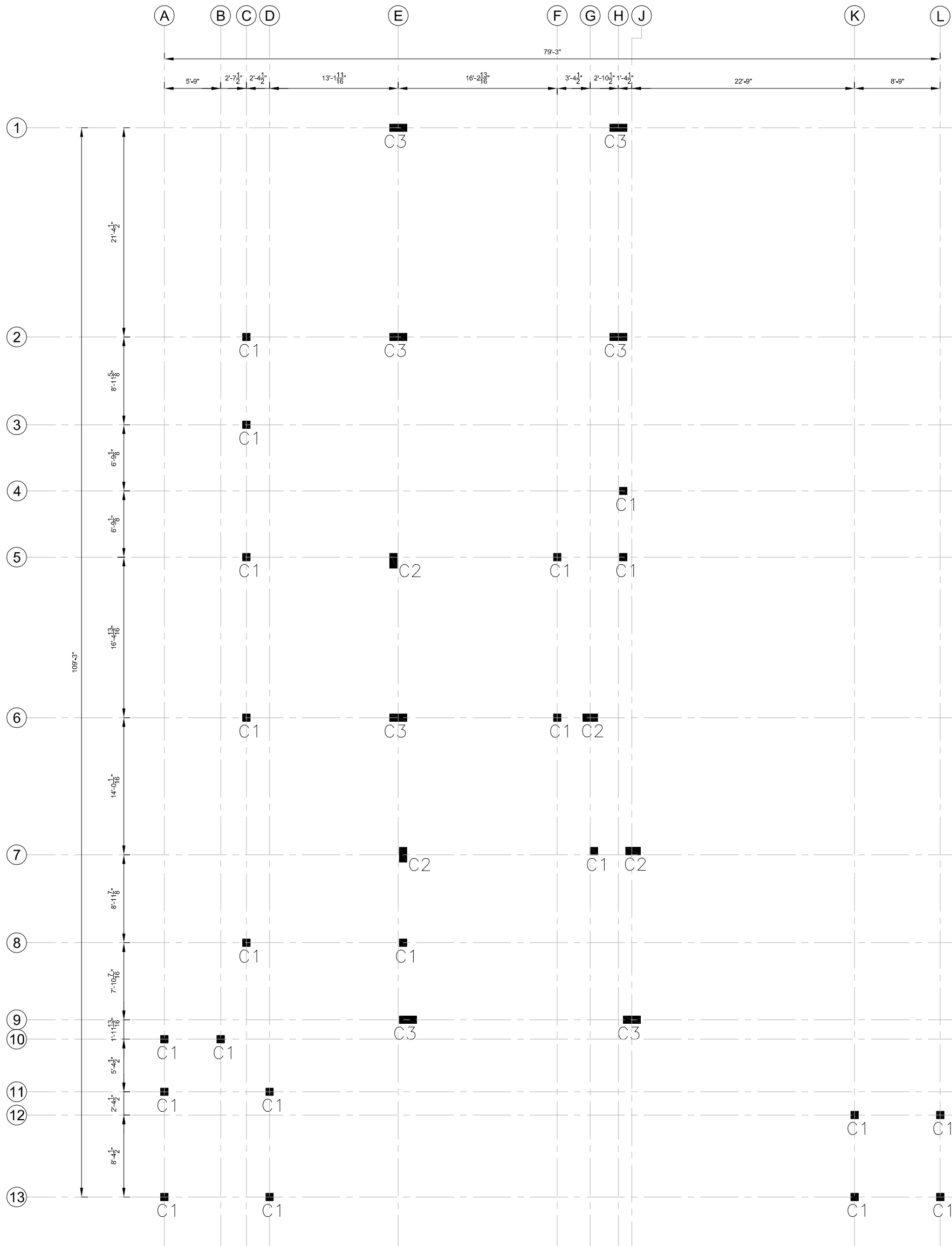
DESIGNER:
NEW VISION ENGINEERING CONSULTANT
Head Office: Office No. B-6 Second Floor Masood Arcade
JP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
Ph: +92-42-37250130



PROJECT:
"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"
TITLE:
FOUNDATION SECTION DETAILS

CLIENT:
SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.		ST-07



COLUMN LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

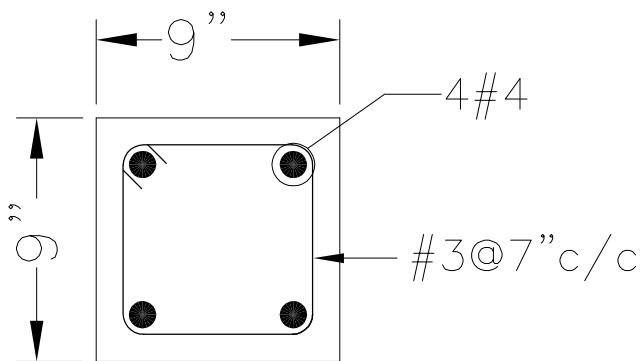
ADDITION & REVISION			

DESIGNER:

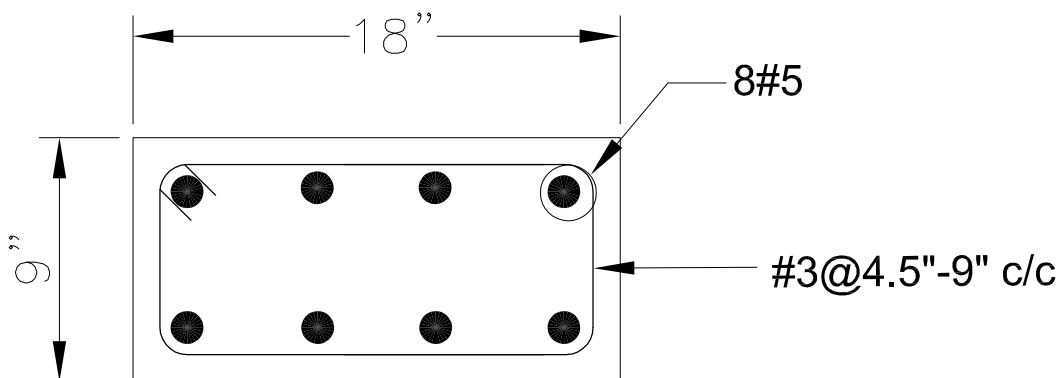
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130

PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE:
COLUMN LAYOUT PLAN

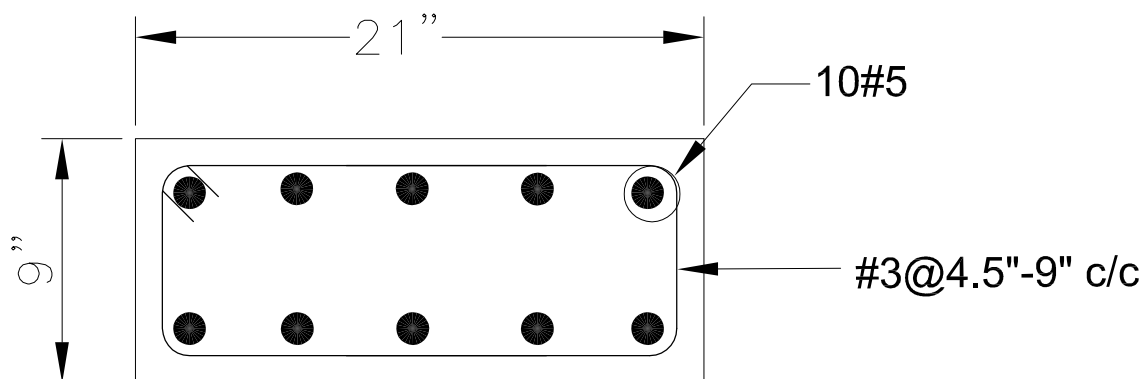
CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-08	



COLUMN
C1




COLUMN
C2



COLUMN
C3

ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER/CHKD/APP'D

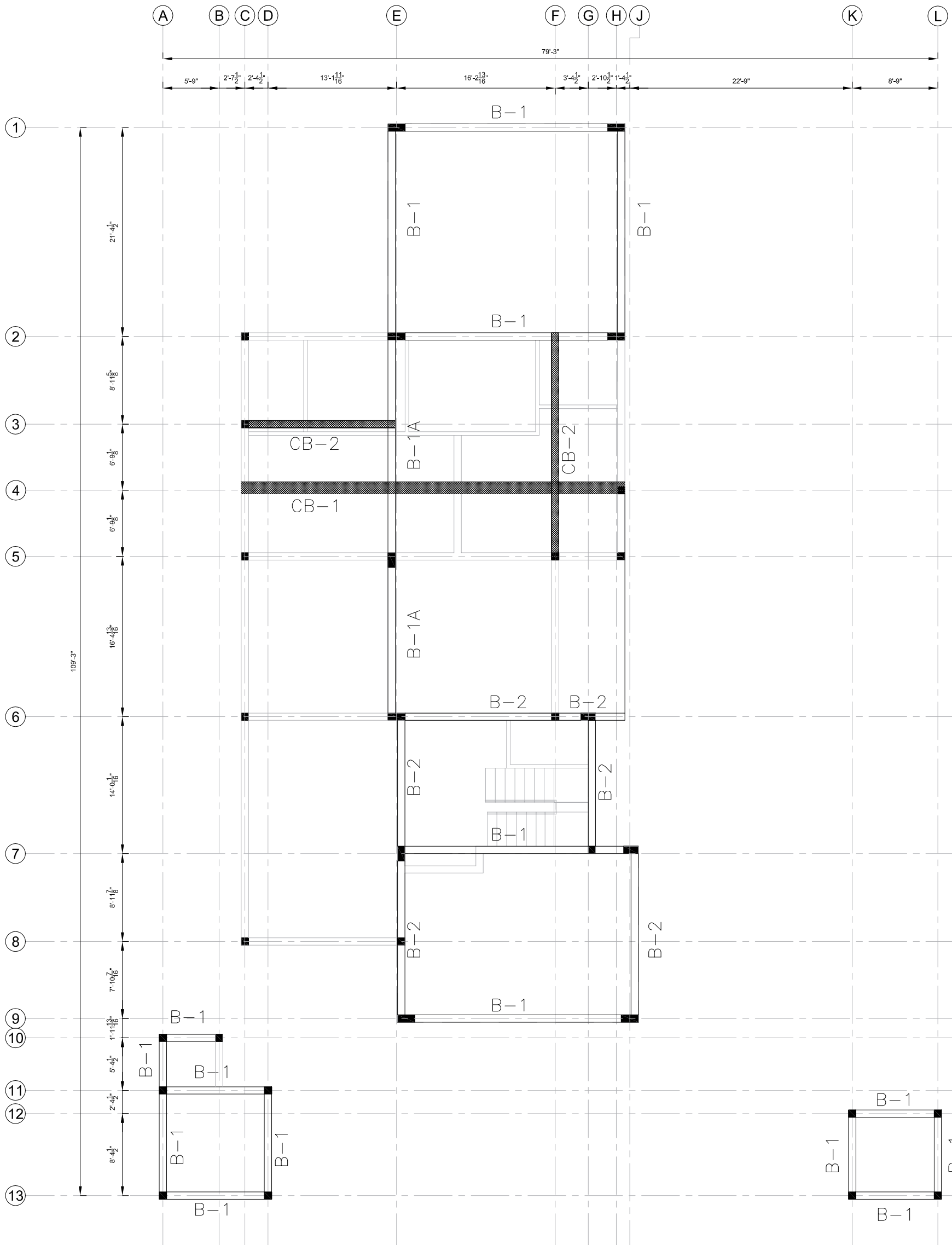
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



PROJECT: "PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: **COLUMN SECTION DETAILS**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.		ST-09



GROUND FLOOR BEAM LAYOUT PLAN

FOR FURTHER DETAILS REFER TO ARCHITECTURE DRAWINGS

ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER

DESIGNER:
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No. B-6 Second Floor Masood Arcade
 I/P Road Islamabad,
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130

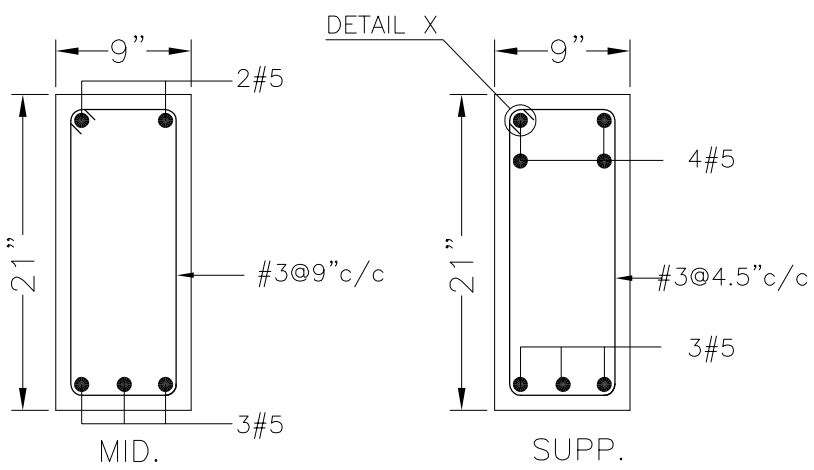


PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

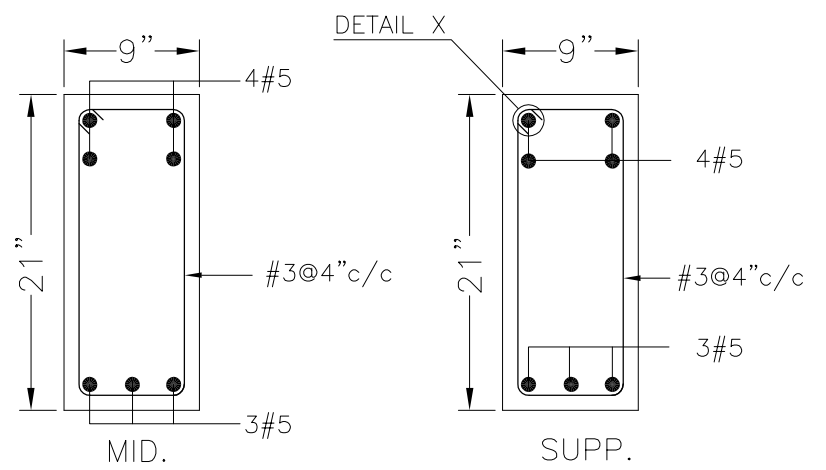
TITLE:
**GROUND FLOOR BEAM LAYOUT
 PLAN**

CLIENT:
SHAIKH AYAZ UNIVERSITY SHIKARPUR

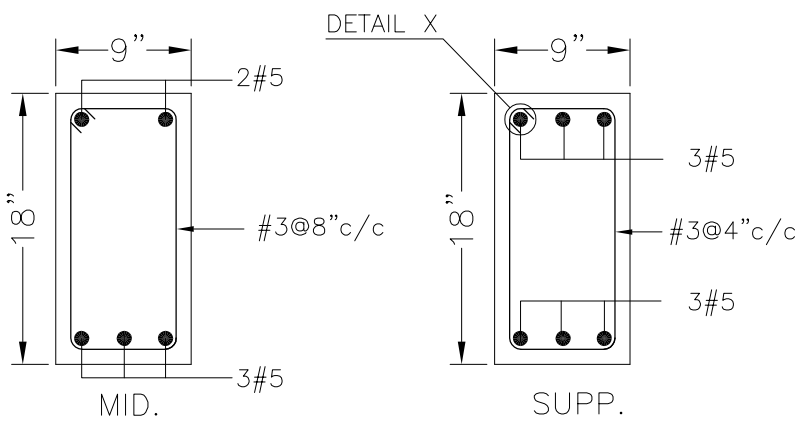
DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.:	ST-10	



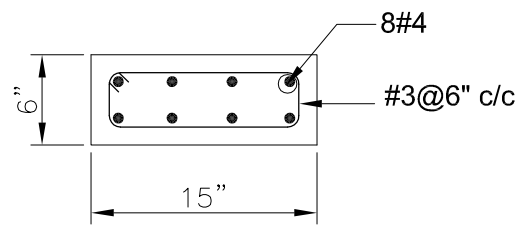
TYPICAL SEC. OF B-1



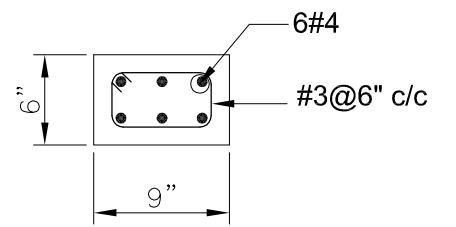
TYPICAL SEC. OF B-1A



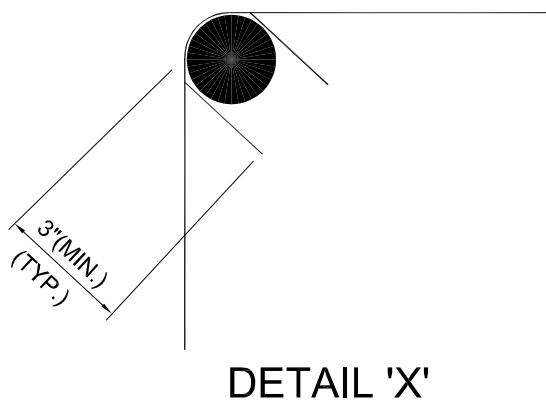
TYPICAL SEC. OF B-2



TYPICAL SEC. OF CB-1



TYPICAL SEC. OF CB-2



DETAIL 'X'

ADDITION & REVISION			

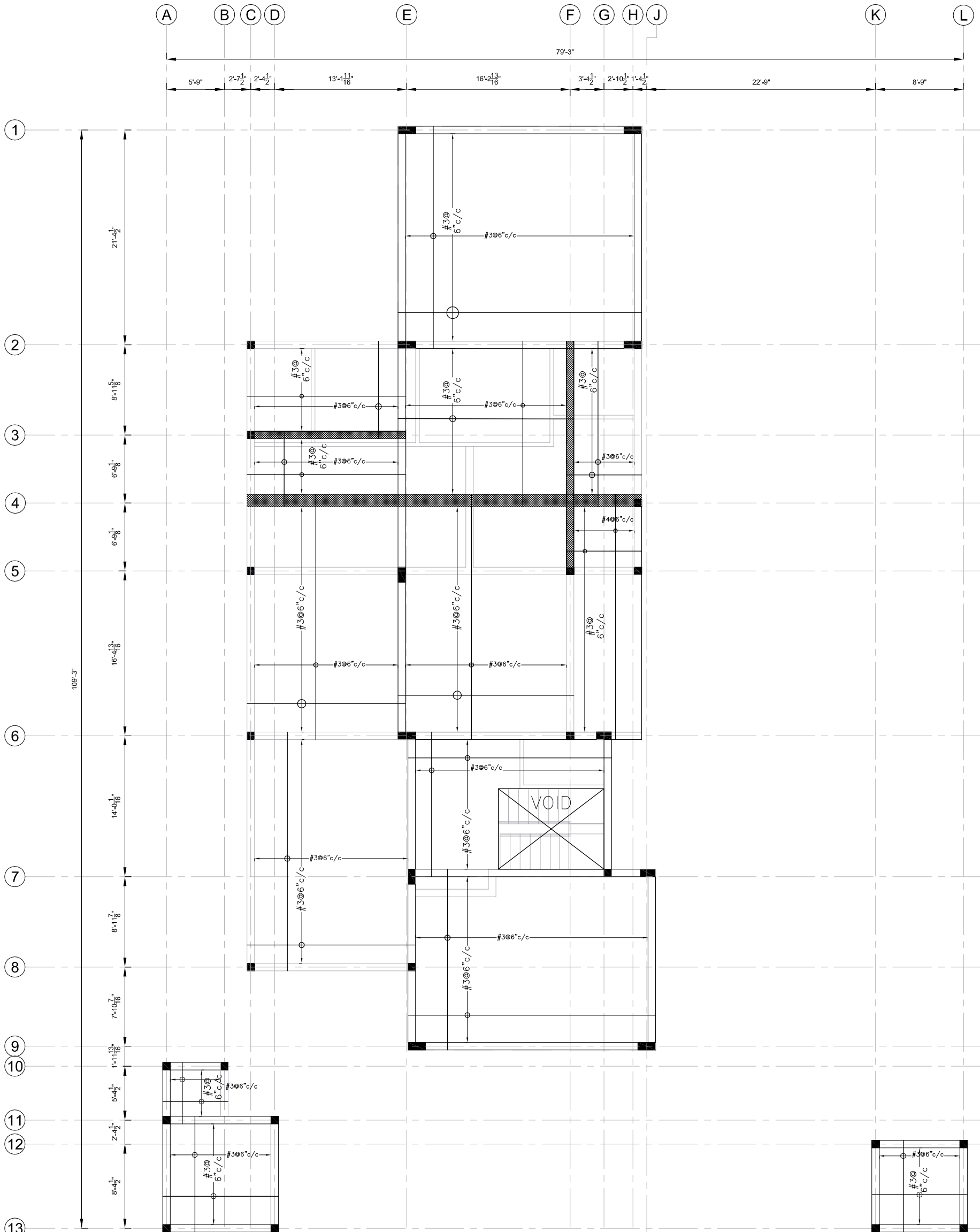
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **GROUND FLOOR BEAM SECTION**


CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: ENG.AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.	ST-11	



GROUND FLOOR SLAB
POSITIVE REINFORCEMENT DETAILS
 SLAB THICKNESS= 6"

ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER/CHKD/APP'D

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130

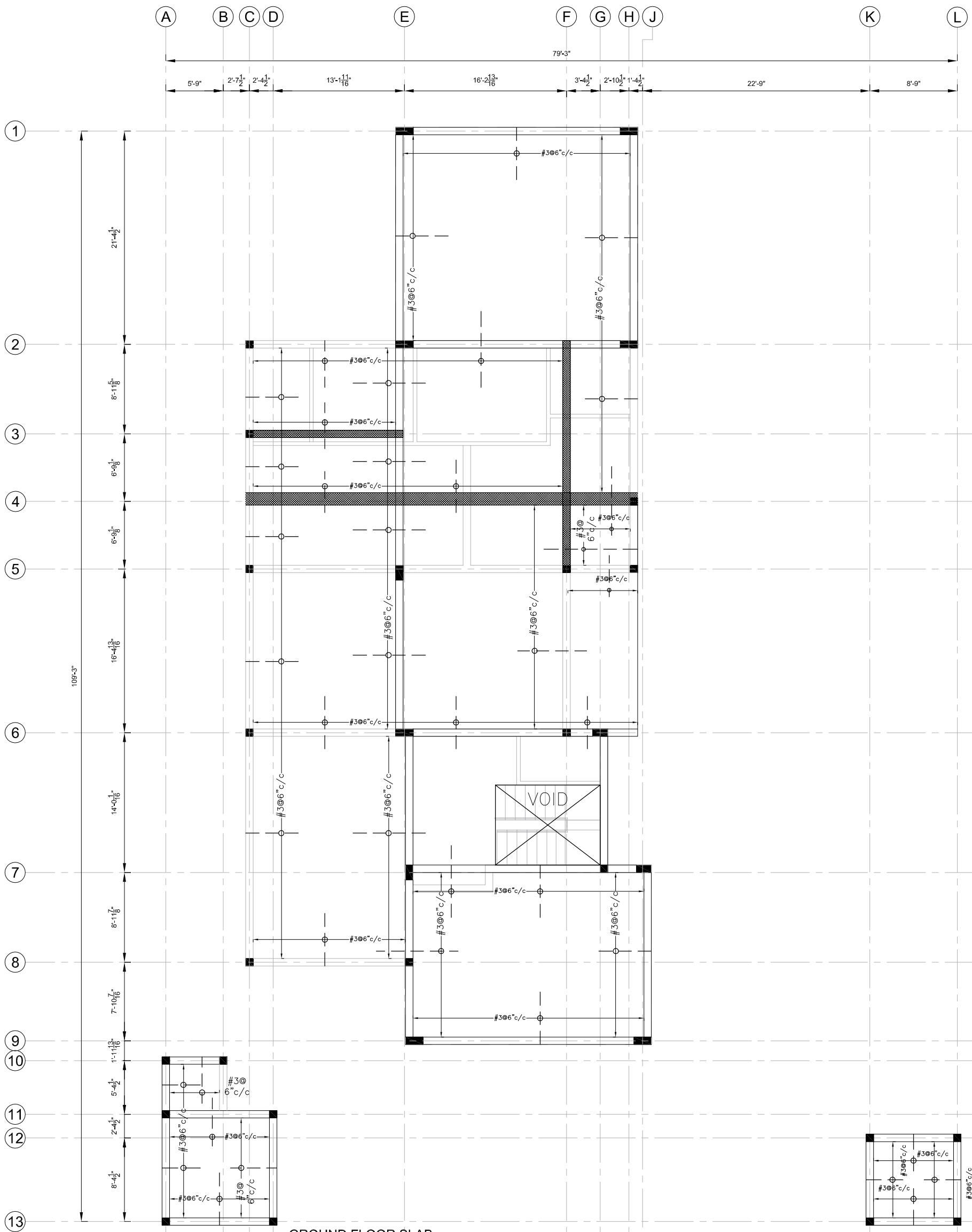


PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **GROUND FLOOR SLAB LAYOUT POSITIVE REINFORCEMENT DETAIL**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.	ST-12	



GROUND FLOOR SLAB
NEGATIVE REINFORCEMENT DETAILS
 SLAB THICKNESS=6"

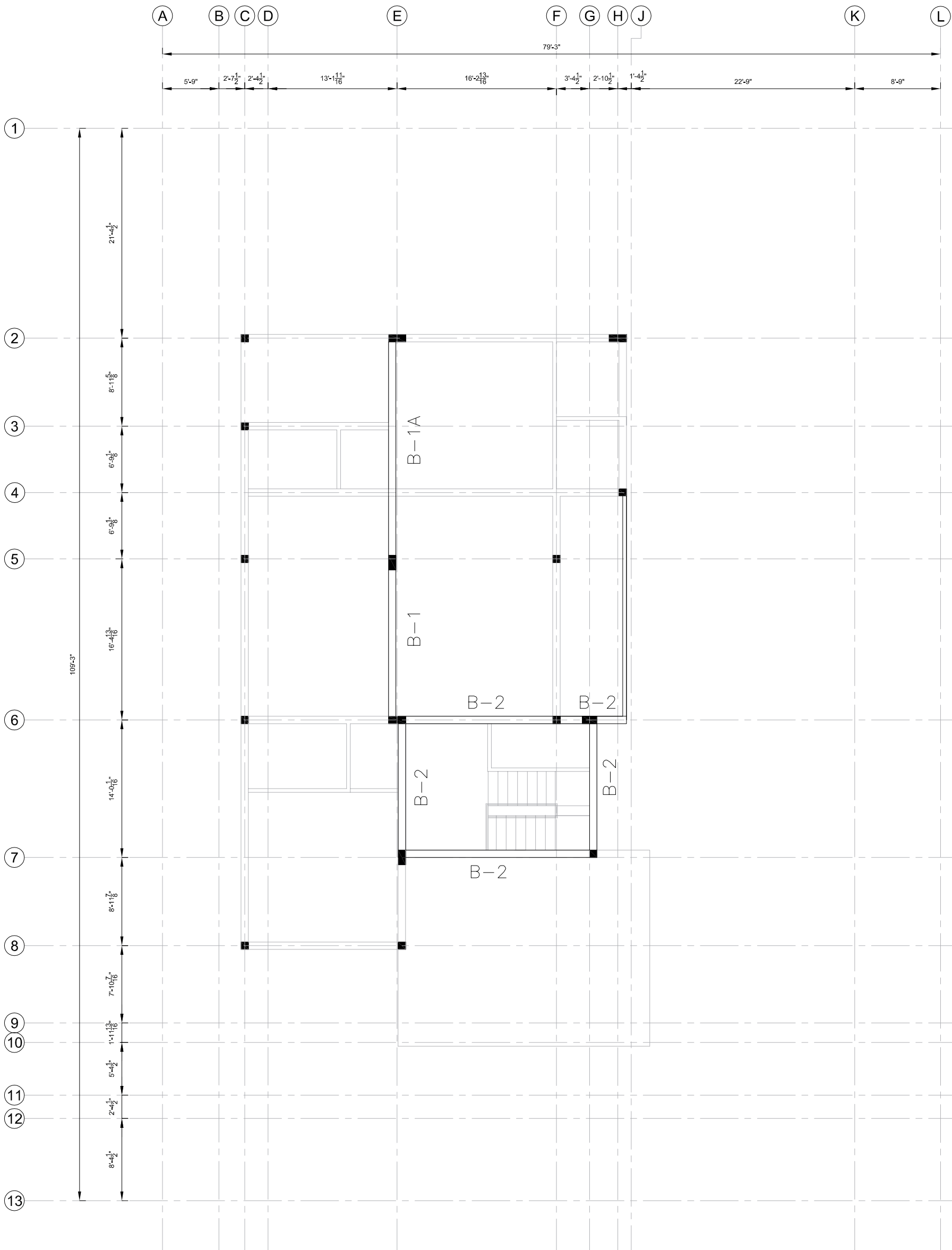
ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER/CHKD/APP'D

DESIGNER:
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE:
**GROUND FLOOR SLAB LAYOUT
 NEGATIVE REINFORCEMENT
 DETAIL**

CLIENT:
SHAIKH AYAZ UNIVERSITY SHIKARPUR
 DESIGNED BY: ENG. AHSAN
 APPROVED BY:
 DATE: MARCH, 2022
 DRAWN BY: RIZWAN
 JOB NO.:
 SCALE: N.T.S.
 DRG. NO. ST-13



FIRST FLOOR BEAM LAYOUT PLAN

FOR FURTHER DETAILS REFER TO ARCHITECTURE DRAWINGS

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DESIGNER	APP. BY

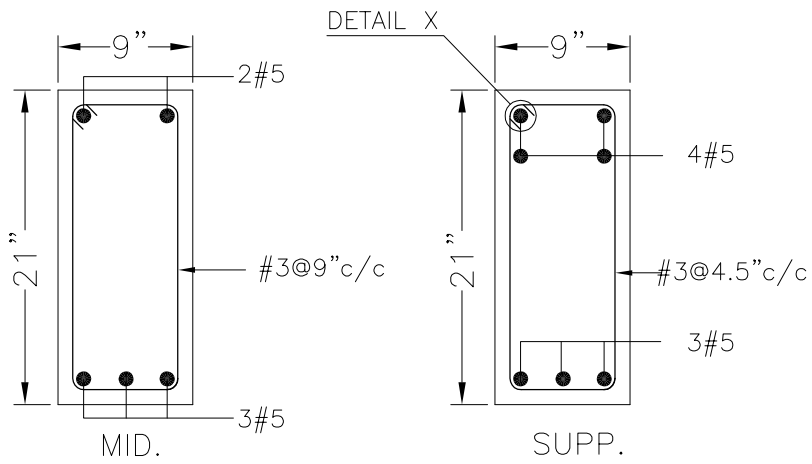
DESIGNER:
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No. B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



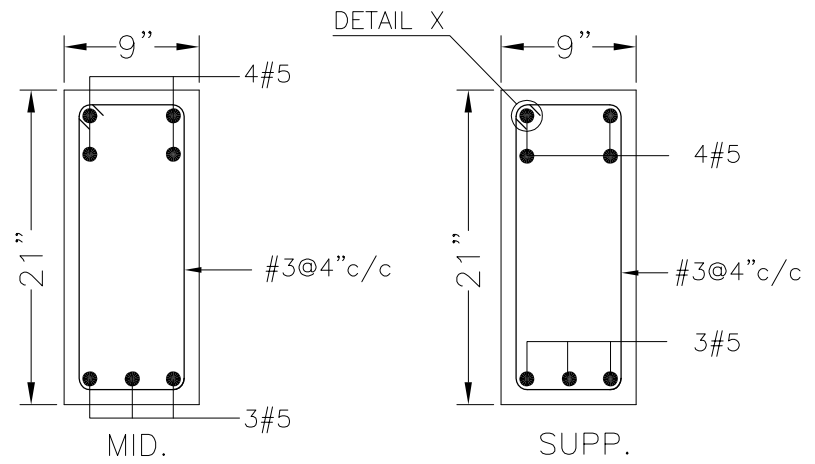
PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:
**FIRST FLOOR BEAM LAYOUT
 PLAN**

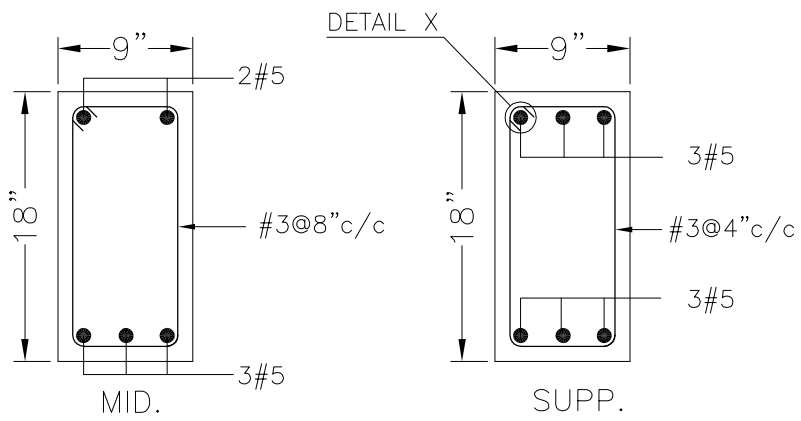
CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY:	APPROVED BY:	DATE:
ENG. AHSAN		MARCH, 2022
DRAWN BY:	JOB NO.	SCALE:
RIZWAN		N.T.S.
DRG. NO.	ST-14	



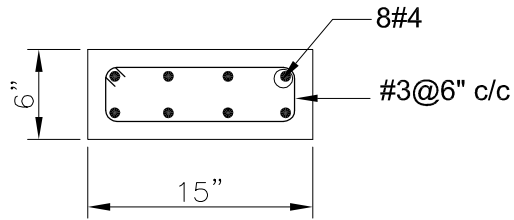
TYPICAL SEC. OF B-1



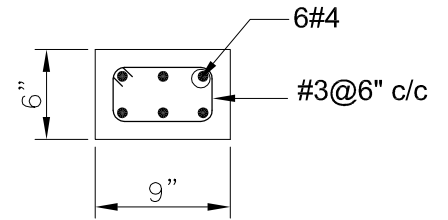
TYPICAL SEC. OF B-1A



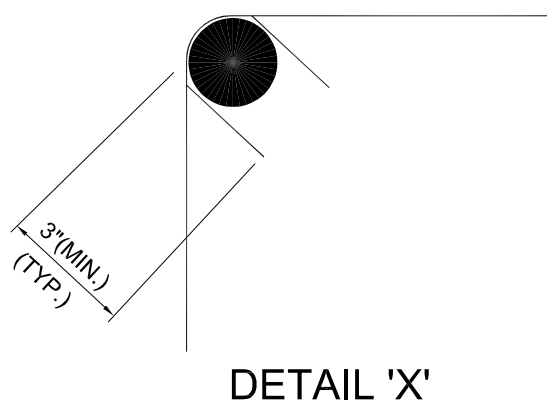
TYPICAL SEC. OF B-2



TYPICAL SEC. OF CB-1



TYPICAL SEC. OF CB-2



DETAIL 'X'

ADDITION & REVISION			

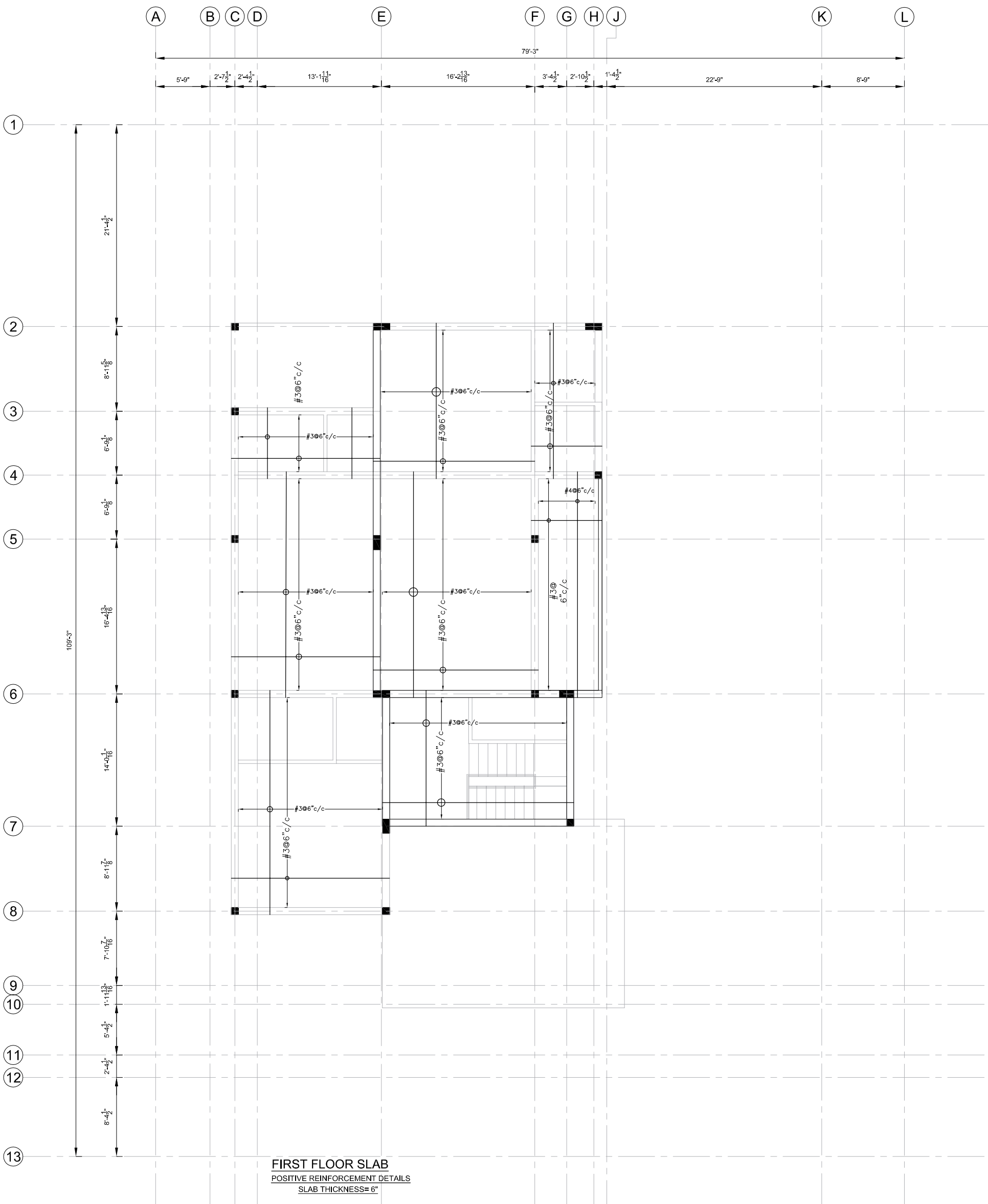
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No. B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE: **FIRST FLOOR BEAM SECTION**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: ENG. AHSAN	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S.
DRG. NO.		ST-15



FIRST FLOOR SLAB
POSITIVE REINFORCEMENT DETAILS
SLAB THICKNESS= 6"

ADDITION & REVISION			
NO.	DATE	DESCRIPTION	DESIGNER/CHKD/APP BY

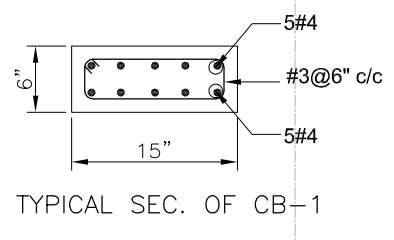
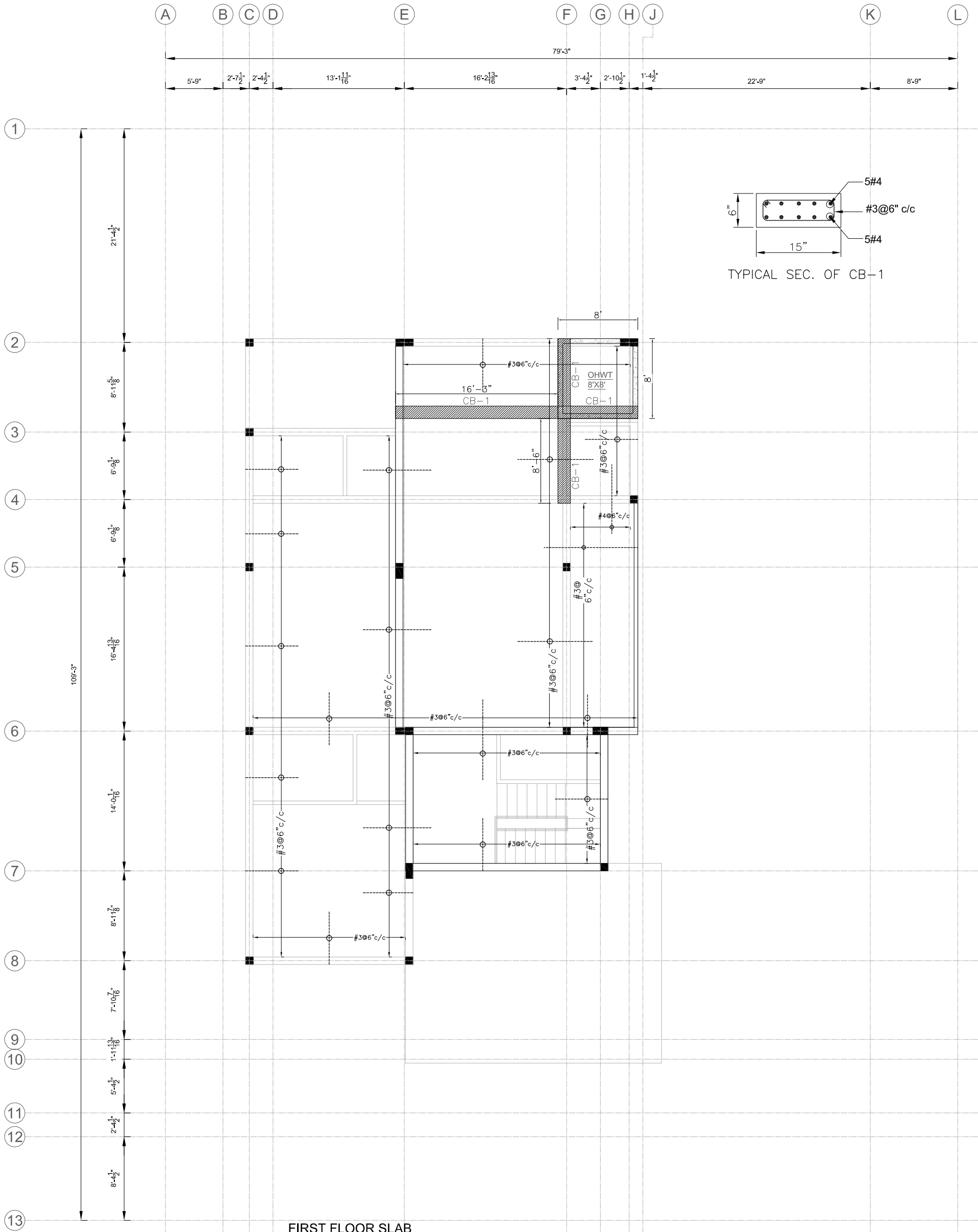
DESIGNER:
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No. B-6 Second Floor Masood Arcade
 J.P. Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
 Ph: +92-42-37250130



PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:
**FIRST FLOOR SLAB LAYOUT
 POSITIVE REINFORCEMENT
 DETAIL**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY:	APPROVED BY:	DATE:
ENG. AHSAN		MARCH, 2022
DRAWN BY:	JOB NO.	SCALE:
RIZWAN		N.T.S.
DRG. NO.	ST-16	



FIRST FLOOR SLAB
 NEGATIVE REINFORCEMENT DETAILS
 SLAB THICKNESS= 6"

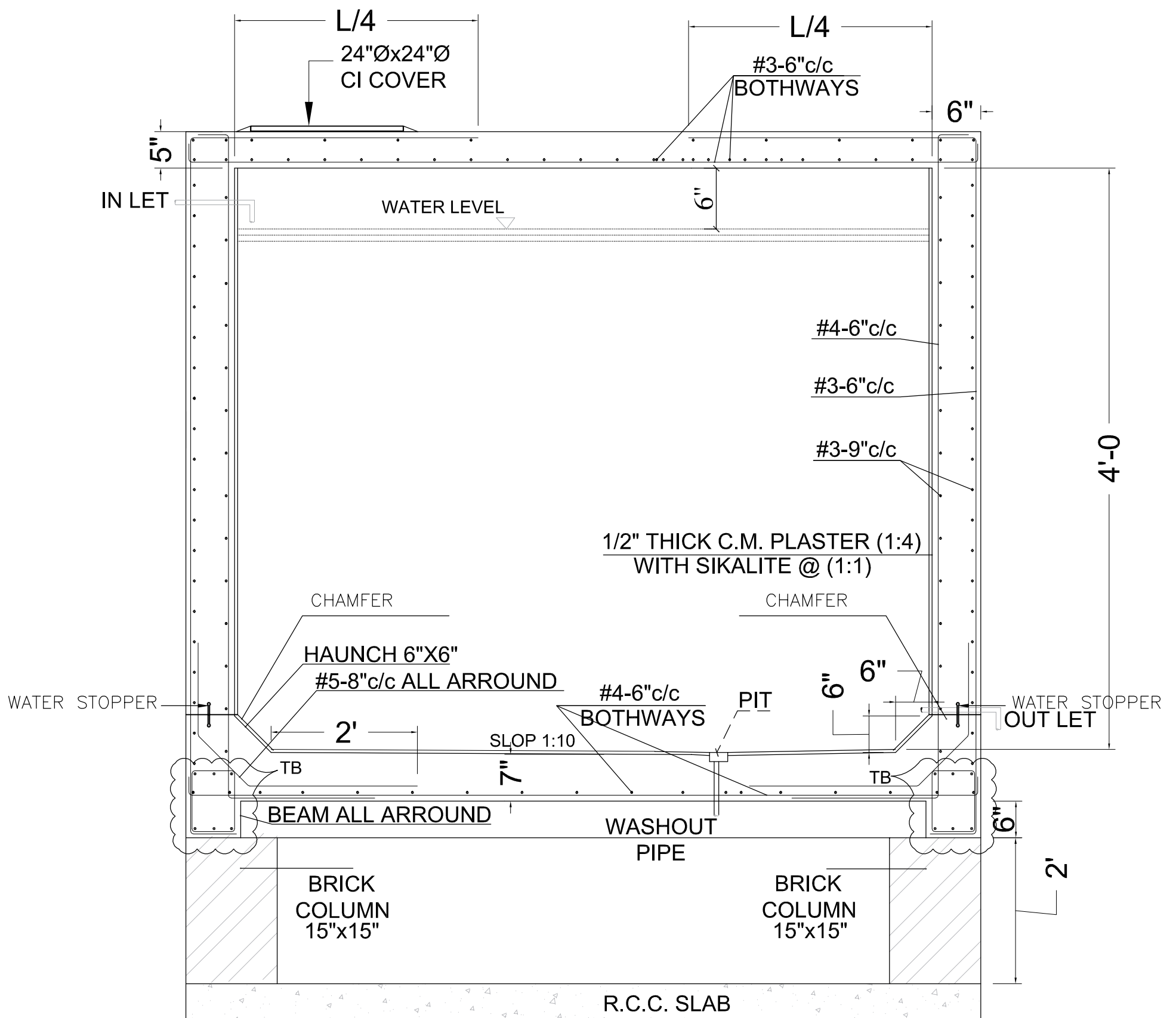
ADDITION & REVISION			

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

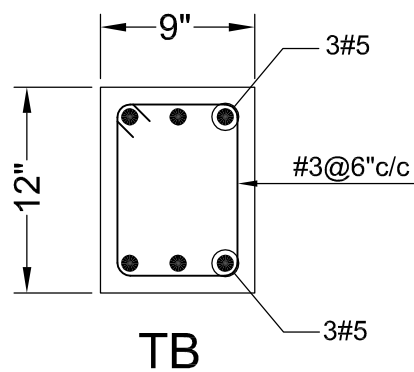


PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE: **FIRST FLOOR SLAB LAYOUT NEGATIVE REINFORCEMENT DETAIL**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**
 DESIGNED BY: ENG.AHSAN
 APPROVED BY:
 DATE: MARCH, 2022
 DRAWN BY: RIZWAN
 JOB NO.
 SCALE: N.T.S.
 DRG. NO. ST-17




**OVER HEAD WATER TANK
SECTION D-D**



ADDITION & REVISION	

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 Second Floor Masood Arcade
 JP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **OHW TANK DETAIL**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: ENG.AHSAN	APPROVED BY:	DATE: APRIL, 2022
DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S.
DRG. NO.		ST-19

ELECTRICAL

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
ELECTRICAL DRAWINGS		
1	LIST OF DRAWING	EL-00
2	GENERAL NOTES	EL-01
3	LEGEND AND SYMBOLS	EL-02
4	EARTHING DETAIL	EL-03
5	DB PLANS	EL-04
6	TYPICAL DETAIL-01	EL-05
7	GROUND FLOOR PLAN (LIGHTING LAYOUT)	EL-06
8	FIRST FLOOR PLAN (LIGHTING LAYOUT)	EL-07
9	GROUND FLOOR PLAN (POWER LAYOUT)	EL-08
10	FIRST FLOOR PLAN (POWER LAYOUT)	EL-09

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"	CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR									
TITLE: LIST OF DRAWINGS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGNED BY: ENG.SHADAB</td> <td style="width: 33%;">APPROVED BY:</td> <td style="width: 33%;">DATE: MARCH, 2022</td> </tr> <tr> <td>DRAWN BY: RIZWAN</td> <td>JOB NO.</td> <td>SCALE: N.T.S</td> </tr> <tr> <td colspan="3">DRG. NO. EL-00</td> </tr> </table>	DESIGNED BY: ENG.SHADAB	APPROVED BY:	DATE: MARCH, 2022	DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S	DRG. NO. EL-00		
DESIGNED BY: ENG.SHADAB	APPROVED BY:	DATE: MARCH, 2022								
DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S								
DRG. NO. EL-00										

GENERAL NOTES

ELECTRICAL SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS & ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/ MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. ALL NON - CURRENT CARRYING PARTS I.e. OUTER CASINGS OF EQUIPMENT SUCH AS HT & LT PANELS, DISTRIBUTIONS BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTIONS FOR EQUIPMENT ETC. SHALL BE CONNECTED TO THE GROUNDING/ EARTHING SYSTEM AT REQUIRED NUMBER OF POINTS WITH SPECIFIED SIZES OF CONDUCTORS. WATER PIPES ALONG ELECTRICAL LINE SHALL BE BONDED TO THE EARTHING SYSTEM WITH 10 sq.mm. SINGLE CORE, COPPER CONDUCTOR PVC CABLE.
8. ELECTRICAL POINTS FOR EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS COMMUNICATION SYSTEMS, HVAC, PLUMBING ETC. THE LOCATION ON ELECTRICAL DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE. EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE. AND AS PER SITE REQUIREMENTS.
10. LOADS ON ALL PHASES SHALL BE BALANCED AT THE TESTING/ COMMISSIONING STAGE.
11. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
12. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG LIGHT AND POWER WIRING. WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING CRITERIA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR (ECC) IN RELATION TO THE AREA OF ITS PHASE CONDUCTORS. RUN SEPARATE ECC FOR EACH CIRCUIT.
 - ECC & PHASE CONDUCTOR OF SAME SIZE FOR UPTO AND INCLUDING 16 SQMM CABLES
 - 16 SQMM ECC FOR PHASE CONDUCTOR OF 16 SQMM, 25SQMM & 35 SQMM CABLES
 - FOR CABLES OF 50 SQMM AND ABOVE SIZES, ECC IS HALF SIZE OF PHASE CONDUCTOR.
 - MAXIMUM SIZE OF ECC IS 70 SQMM.

ELECTRICAL SYSTEMS

13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMULTANEOUS DRAWING OF PVC INSULATED CABLES SHALL BE DETERMINED AS PER BS 4607. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MAXIMUM NUMBER OF CABLES.

S. #	NOMINAL CONDUCTOR SIZE(SQMM)	NO. & DIA OF WIRES	NOMINAL OVERALL DIA	20 MM DIA (3/4" DIA)	25 MM DIA (1" DIA)	32 MM DIA (1 1/4" DIA)
1	1.5	1/1.38	3.1	10	18	30
2	2.5	1/1.78	3.5	8	14	23
3	2.5	7/0.67	3.8	7	12	20
4	4	7/0.85	4.3	5	9	15
5	6	7/1.04	4.9	4	7	12
6	10	7/1.35	6.2	2	4	7
7	16	7/1.70	7.3	-	3	5
8	25	7/2.14	9.0	-	2	3
9	35	19/1.53	10.3	-	-	2
14. NORMAL & EMERGENCY CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
15. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
16. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
17. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
18. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

MAIN SWITCH BOARD	48 INCHES
DISTRIBUTION BOARD	48 INCHES
CONTROL PANEL	48 INCHES
ON/OFF PUSH BUTTON STATION	48 INCHES
DIMMER CONTROL UNIT	48 INCHES
LIGHT CONTROL SWITCH (ONE WAY/TWO WAY)	48 INCHES
5A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
15A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
20A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
15A SOCKET OUTLETS IN KITCHEN (ABOVE COUNTER)	10 INCHES
15A SOCKET OUTLETS IN TOILETS	66 INCHES
16A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
32A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS	48 INCHES
63A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
CEILING FAN	96 INCHES
WALL FAN	84 INCHES
EXHAUST FAN	REFER ARCH. DRGS.

COMMUNICATION SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL COMMUNICATION SYSTEMS DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE COMMUNICATION SYSTEMS WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL COMMUNICATION SYSTEMS DRAWINGS SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATIONS, ITEMS OF B.O.Q., ARCHITECTURAL STRUCTURAL, HVAC, PLUMBING DRAWINGS AND ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF COMMUNICATION SYSTEMS WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. TELEPHONE SYSTEM SHALL BE COMPLETE WITH INSTRUMENTS, EQUIPMENT AND INTERCONNECTING WIRING, TELEPHONE EXCHANGE, TELEPHONE OUTLETS, JUNCTION BOXES, CONDUITS OF SPECIFIED SIZES IN THE BUILDING, AND UNDERGROUND PIPES OF SPECIFIED SIZES SHOWN ON DRAWINGS SHALL BE PROVIDED. WHERE SIZE OF CONDUIT/PIPE IS NOT SPECIFIED SUITABLE SIZE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. POINTS FOR COMMUNICATION SYSTEMS EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS ELECTRICAL, HVAC, PLUMBING ETC. THE LOCATION ON COMMUNICATION SYSTEMS DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF COMMUNICATION SYSTEMS EQUIPMENTS ON DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
10. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER 2 INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
11. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG COMMUNICATION SYSTEMS WIRING.
12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
13. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
14. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
15. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

TELEPHONE JUNCTION BOX	10 INCHES
TELEPHONE OUTLET	10 INCHES
INTERCOM CONTROL PACK	10 INCHES
INTERCOM STATION (WALL MOUNTED)	36 INCHES
FA SYSTEM CONTROL PANEL	36 INCHES
FA SYSTEM JUNCTION BOX	10 INCHES
MANUAL CALL STATION	42 INCHES
AUDIO ALARM	100 INCHES

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



NEW VISION ENGINEERING CONSULTANT

Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

GENERAL NOTES

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

JOB NO.

SCALE:

N.T.S

DRG. NO.

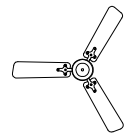
EL-01



20 Watt LED/SMD Light fixture



15 Watt LED/SMD Light fixture



56" dia ceiling fan suitable to give an air displacement of minimum 8000 Cu. ft./ min. Fan shall be made with 99% purity Copper windings.



Exhaust 12" dia plastic body



Bracket fan 18"



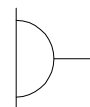
10 Watt LED/SMD Light fixture



15 Watt LED/SMD (Warm) Light fixture



14 Watt LED/SMD Light fixture



10-13 amps light plug



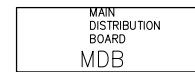
data point



manual call point & sounder



Fire Alarm Control Panel



main DB

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
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 Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

LEGEND AND SYMBOLS

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

ENG.SHADAB

APPROVED BY:

DATE: MARCH, 2022

DRAWN BY:

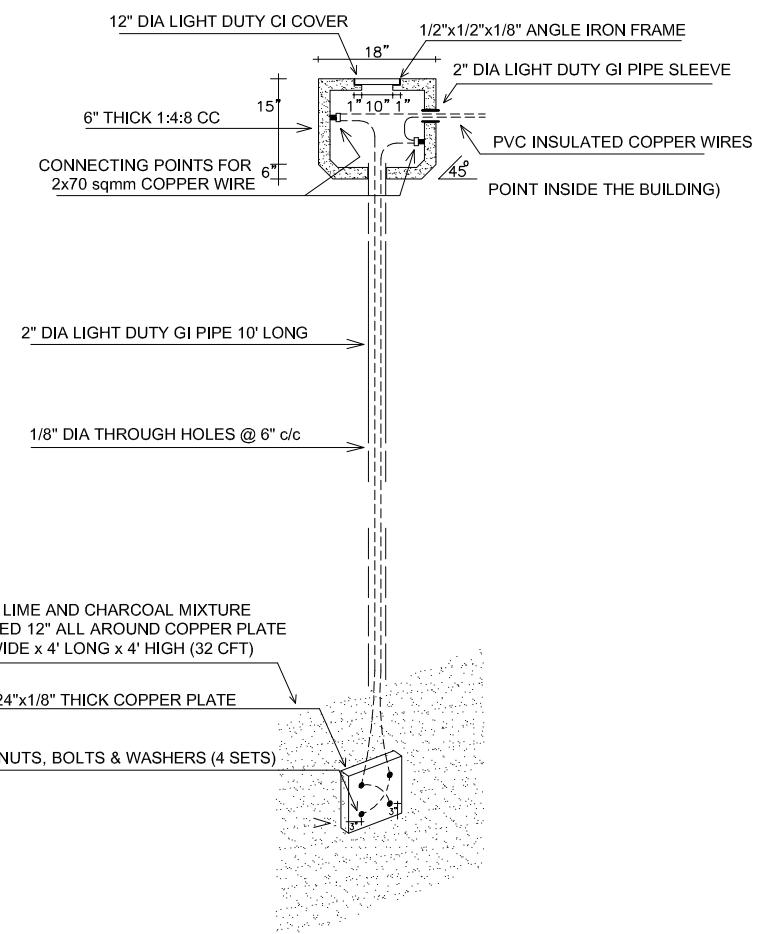
RIZWAN

JOB NO.

SCALE: N.T.S

DRG. NO.

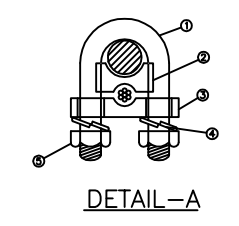
EL-02



DETAIL-E-2

PLATE TYPE EARTH ELECTRODE

(FOR EARTHING OF ELECTRICAL POWER SYSTEM)



ITEM NO.	NAME	MATERIAL
1	U-BOLT	MILD STEEL
2	SPACER	CAST IRON
3	BASE	MILD STEEL
4	SPRING WASHER	CARBON STEEL
5	NUT	MILD STEEL

ALL MEASUREMENTS ARE IN MM

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:

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 Ph: +92-51-4848375, Fax: +92-51-4848375
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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"

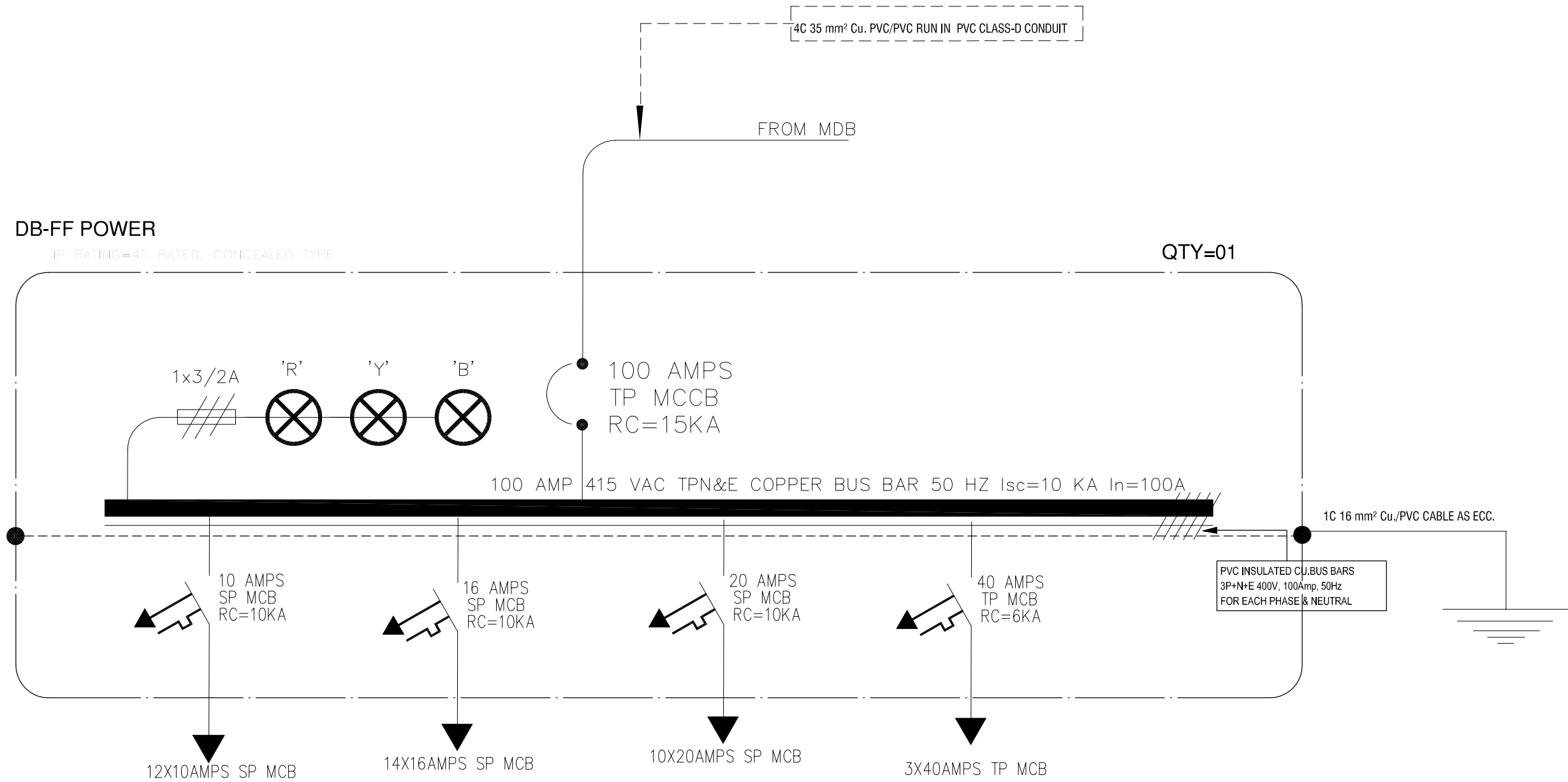
TITLE:

EARTHING DETAIL

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:	APPROVED BY:	DATE:
ENG. SHADAB		MARCH, 2022
DRAWN BY:	JOB NO.	SCALE:
RIZWAN		N.T.S
DRG. NO.	EL-03	



ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



NEW VISION ENGINEERING CONSULTANT

Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

DB PLANS

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

ENG.SHADAB

APPROVED BY:

DATE: MARCH, 2022

DRAWN BY:

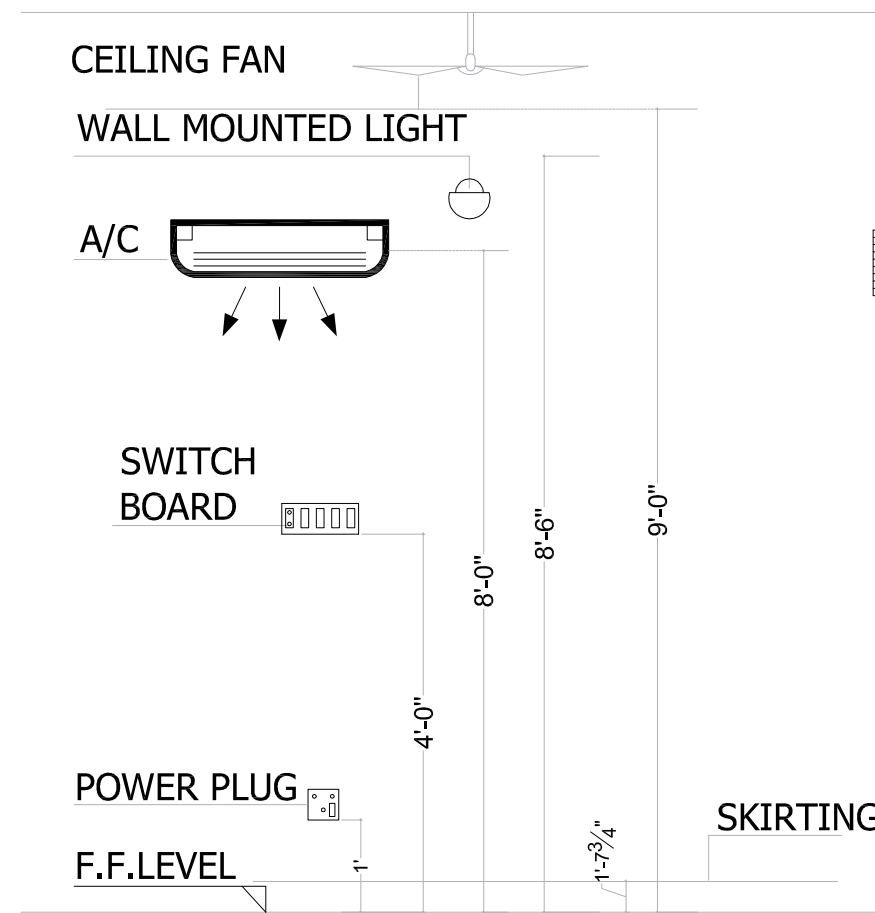
RIZWAN

JOB NO.

SCALE: N.T.S

DRG. NO.

EL-04

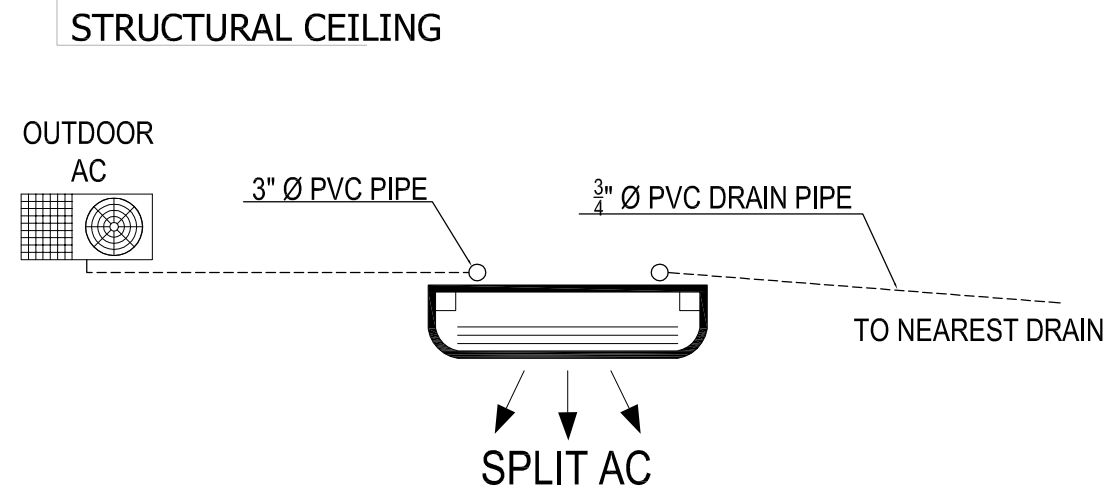


DETAIL-S1

MOUNTING HEIGHT OF FIXTURE DETAIL

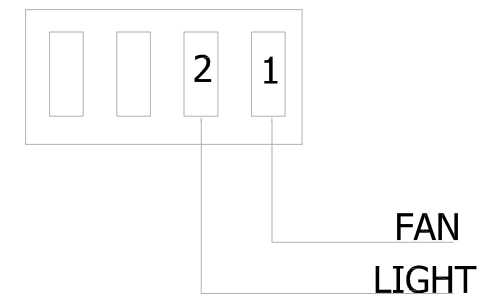
NOTE:

LOCATION OF ACs INDOOR, OUTDOOR UNIT AND ACs POWER SOCKETS IN APARTMENTS AREA ARE TENTATIVE SUBJECT TO FINAL FINISHING DETAIL DECIDED BY CLIENT, ARCHITECT IN CHARGE AND CONCERNED SITE ENGINEER



DETAIL-Z1

TYPICAL AC INDOOR AND OUTDOOR UNIT DETAILS



ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



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Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

TYPICAL DETAIL-01

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

JOB NO.

SCALE:

N.T.S

DRG. NO.

EL-05



GROUND FLOOR PLAN
LIGHTING LAYOUT

ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY
01	21/02/22	REVISED PLAN			

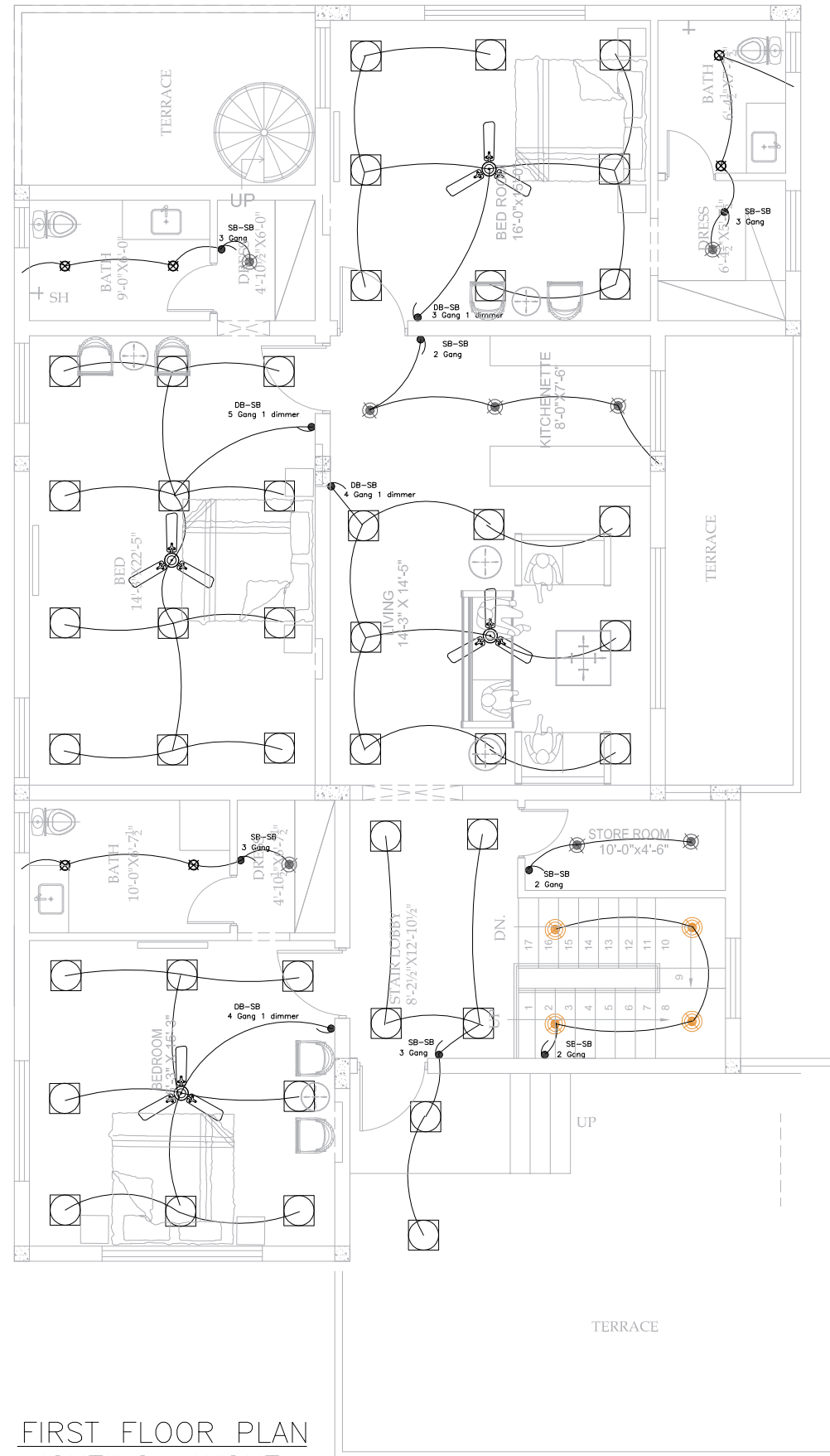
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PROJECT:
**"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:
**GROUND FLOOR PLAN
 LIGHTING LAYOUT PLAN**

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: ENG. SHADAB	APPROVED BY:	DATE: MARCH, 2022
SUZYAN	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-06	



FIRST FLOOR PLAN
LIGHTING LAYOUT

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
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 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAikh AYAZ UNIVERSITY SHIKARPUR"

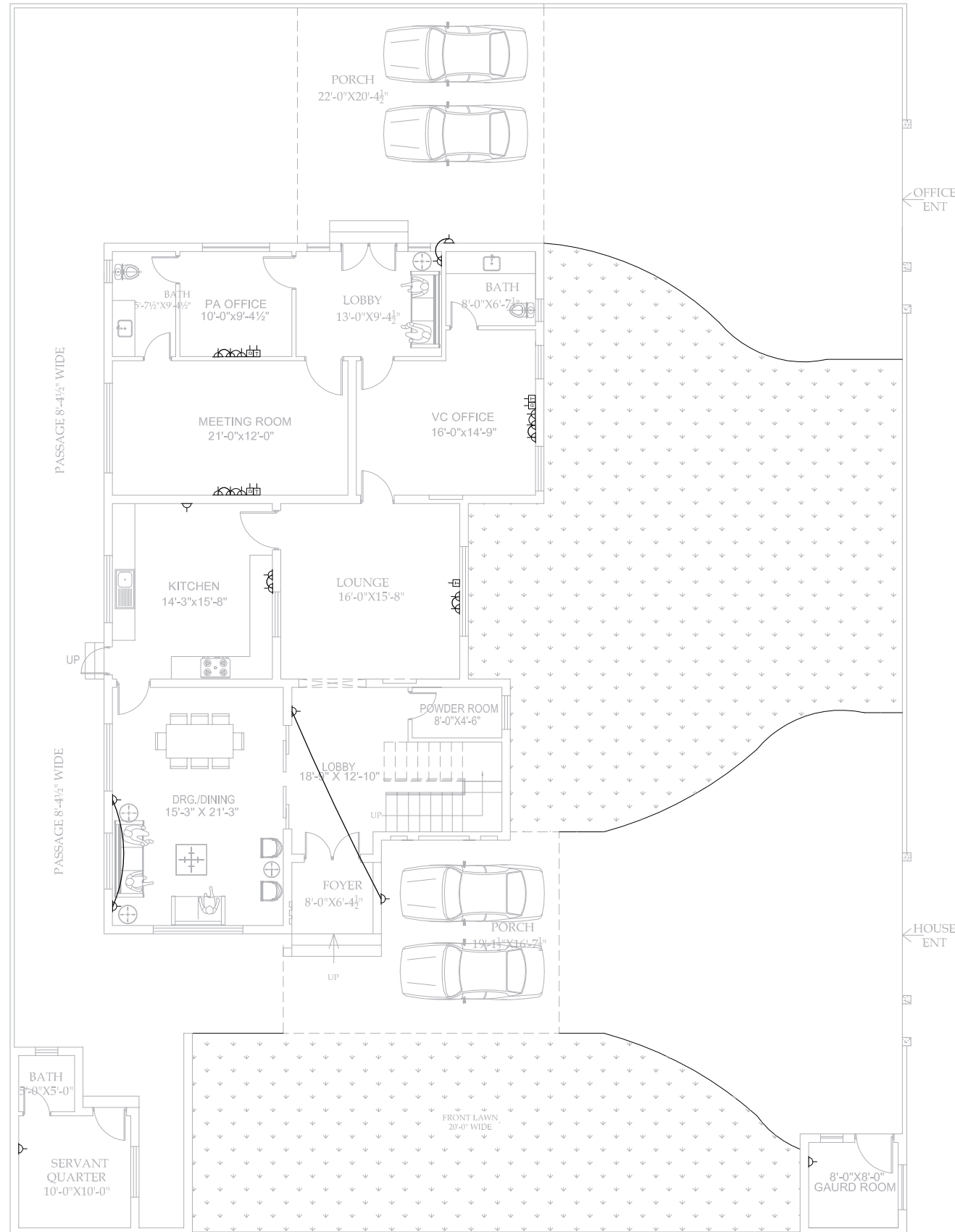
TITLE:

FIRST FLOOR PLAN
LIGHTING LAYOUT PLAN

CLIENT:


SHAikh AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY: ENG.SHADAB	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-07	



GROUND FLOOR PLAN
POWER LAYOUT

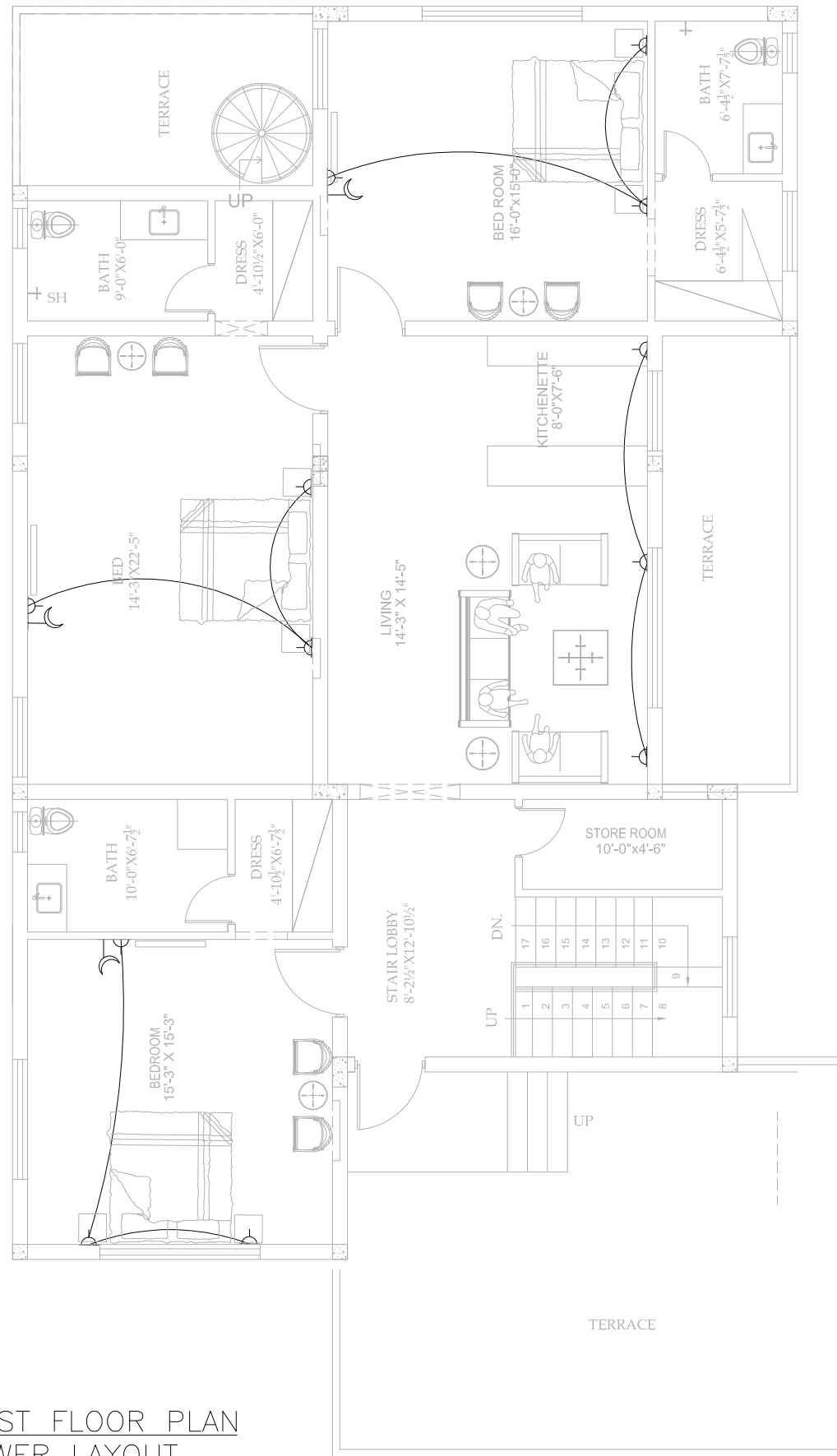
ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY
01	27/02/22	REVISED PLAN			

DESIGNER:

NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No. B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:
"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:
GROUND FLOOR PLAN POWER LAYOUT

CLIENT: SHAIKH AYAZ UNIVERSITY SHIKARPUR		
DESIGNED BY: ENG. SHADAB	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY: RIZWAN	JOB NO.:	SCALE: N.T.S
DRG. NO.:		EL-08



FIRST FLOOR PLAN
POWER LAYOUT

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

**FIRST FLOOR PLAN
POWER LAYOUT**

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

JOB NO.

SCALE:

N.T.S

DRG. NO.

EL-09

PLUMBING

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
PLUMBING DRAWINGS		
1	LIST OF DRAWING	PL-00
2	GENERAL NOTES	PL-01
3	GROUND FLOOR PLAN (SANITARY DRAINAGE LAYOUT)	PL-02
4	FIRST FLOOR PLAN (SANITARY DRAINAGE LAYOUT)	PL-03
5	ROOF FLOOR PLAN (STORM WATER DRAINAGE LAYOUT)	PL-04
6	GROUND FLOOR PLAN (WATER SUPPLY LAYOUT)	PL-05
7	FIRST FLOOR PLAN (WATER SUPPLY LAYOUT)	PL-06
8	ROOF PLAN (WATER SUPPLY LAYOUT)	PL-07
9	GROUND FLOOR PLAN (GAS SUPPLY LAYOUT)	PL-08
10	FIRST FLOOR PLAN (GAS SUPPLY LAYOUT)	PL-09
11	TYPICAL DETAILS	PL-10
12	TYPICAL DETAILS	PL-11

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	APP. BY

DESIGNER:



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IJP Road Islamabad.

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Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:

LIST OF DRAWINGS

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE :

MARCH, 2022

DRAWN BY:

RIZWAN

JOB NO.

SCALE:

N.T.S

DRG. NO.

PL-00

GENERAL NOTES.

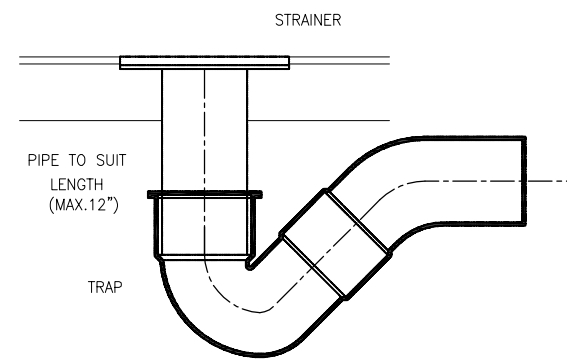
- 1 - PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES
- 2 - PIPE SIZES & DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE MENTIONED
- 3 - PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, ETC. TO AVOID CONFLIT OR INTERFERENCE WITH THEM.
- 4 - SIZE OF FLOOR DRAIN UNLESS OTHERWISE STATED SHALL BE SAME AS THE SIZE OF OUTLET DRAIN PIPE.
- 5 - WHEREVER FLOOR DRAIN/TRAP IS SHOWN, SLOPE FLOOR TOWARDS DRAIN/TRAP.
- 6 - HORIZONTAL DRAINAGE PIPING OF 3 INCH DIAMETER & LESS SHALL BE INSTALLED WITH A SLOPE OF NOT LESS THEN 1/4 INCH PER FOOT, LARGER ONES WITH A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT.
- 7 - EXTENSION OF VENT PIPES THROUGH A ROOF SHALL BE TERMINATED AT LEAST 6 INCHES ABOVE FINISHED ROOF LEVEL. EACH VENT TERMINAL SHALL BE MADE WATER TIGHT WITH THE ROOF BY PROPER FLASHING
- 8 - SIZE OF ANYTHING GIVEN ON PLUMBING DRAWING MEANS ITS CLEAR DIMENSIONS (CAPACITY), UNLESS OTHERWISE MENTIONED.
- 9 - THE "VERTICAL DISTANCE" FROM FIXTURE OUTLET TO THE TRAP WEIR SHALL PREFERABLY BE NOT MORE THAN 12 INCHES. HOWEVER, THIS "VERTICAL DISTANCE" FROM THE FIXTURE OUTLET TO THE TRAP WEIR SHALL NOT EXCEED 24 INCHES.
- 10 - WHERE THE CHANGE OF DIRECTION IS 45° OR LESS, IT IS NOT NECESSARY TO PROVIDE A CLEAN OUT. BUT WHEN THE CHANGE IN DIRECTION IS MORE THAN 45°, A CLEAN OUT SHOULD BE REQUIRED.
- 11 - ALL TRAPS AND FLOOR DRAINS SHALL HAVE A WATER SEAL NOT LESS THAN 2 INCHES.
- 12 - (EXTERNAL SERVICES) THE BOTTOM OF WATER-SERVICES PIPE , AT ALL POINTS,SHALL BE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT.
- 13 - NO "T" FITTING IS ALLOWED IN SANITARY DRAINAGE LAYOUT. USE ONLY "Y" FITTINGS.

TABLE-1

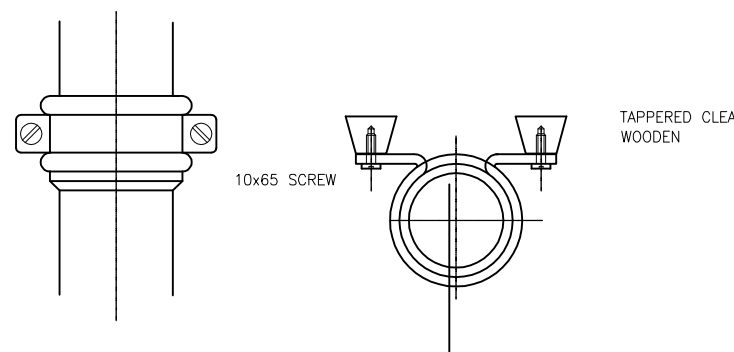
ABBREV.	DESCRIPTION
SP	SOIL PIPE
WP	WASTE PIPE
SS	SOIL STACK
WS	WASTE STACK
VP	VENT PIPE
VS	VENT STACK
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW

TABLE-2

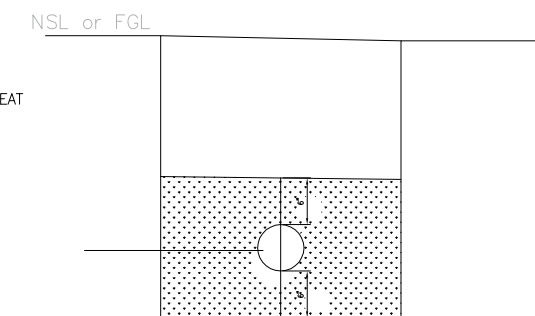
ABBREV.	DESCRIPTION
GV	GATE VALVE
WP	WASTE PIPE
SP	SOIL PIPE
HS	HAND SHOWER
G.T	GULLY TRAP
Gr.T	GREASE INTERCEPTOR
MFT	MULTI FLOOR TRAP
FT	FLOOR TRAP
O.H.W.T	OVERHEAD WATER TANK
U.G.W.T	UNDERGROUND WATER TANK
WC	WATER CLOSD
SH	SHOWER
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW



— DETAIL OF FLOOR TRAP
NO SCALE



ELEVATION PLAN
— DETAIL OF PIPE CLAMP
NO SCALE (DIMENSIONS ARE IN mm.)



— PIPE TRENCH DETAIL
NO SCALE

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

DESIGNER:



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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:

GENERAL NOTES

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE :
MARCH, 2022

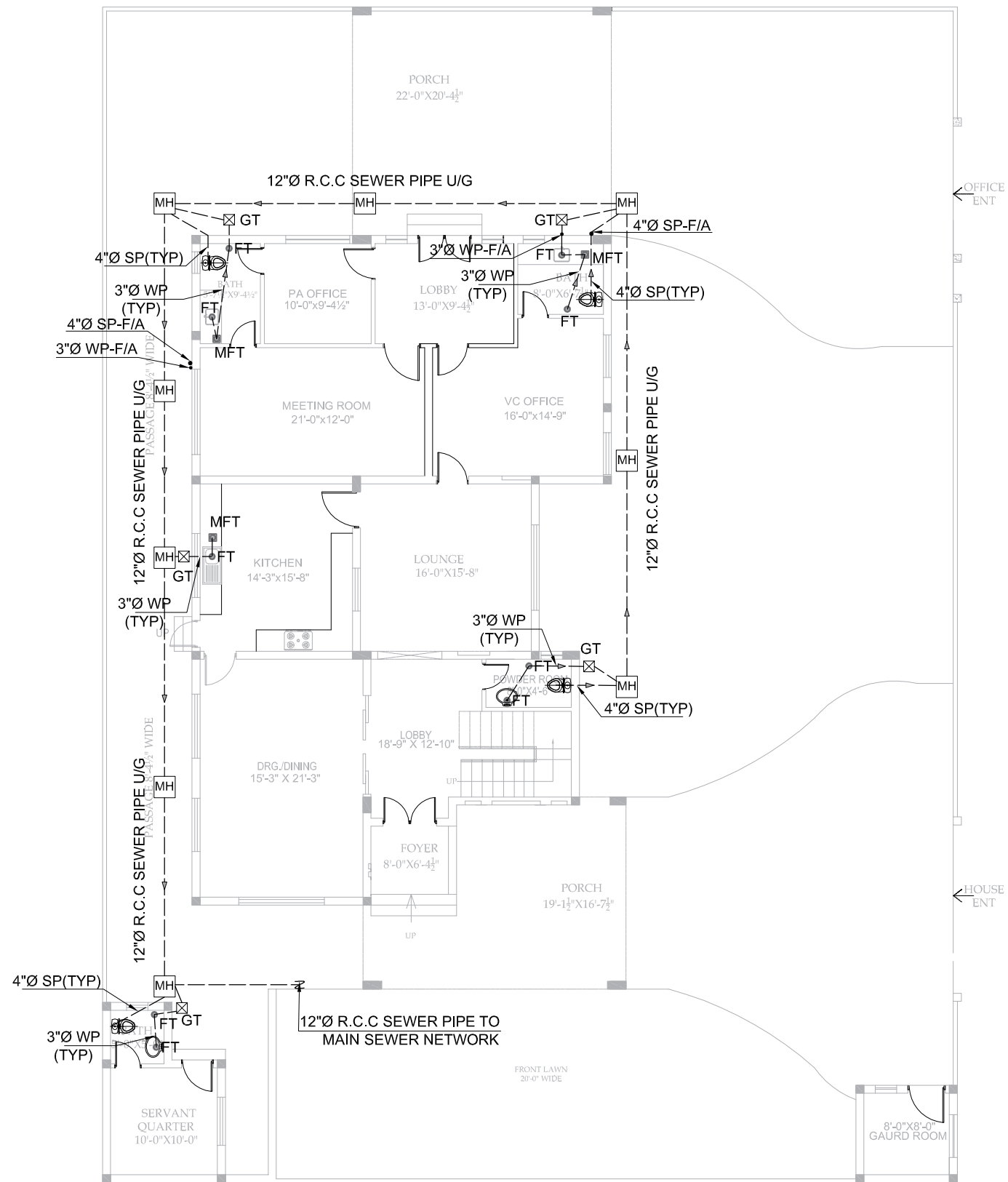
DRAWN BY:

JOB NO.

SCALE:
N.T.S

DRG. NO.

PL-01



**GROUND FLOOR PLAN
SANITARY DRAINAGE LAYOUT**

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

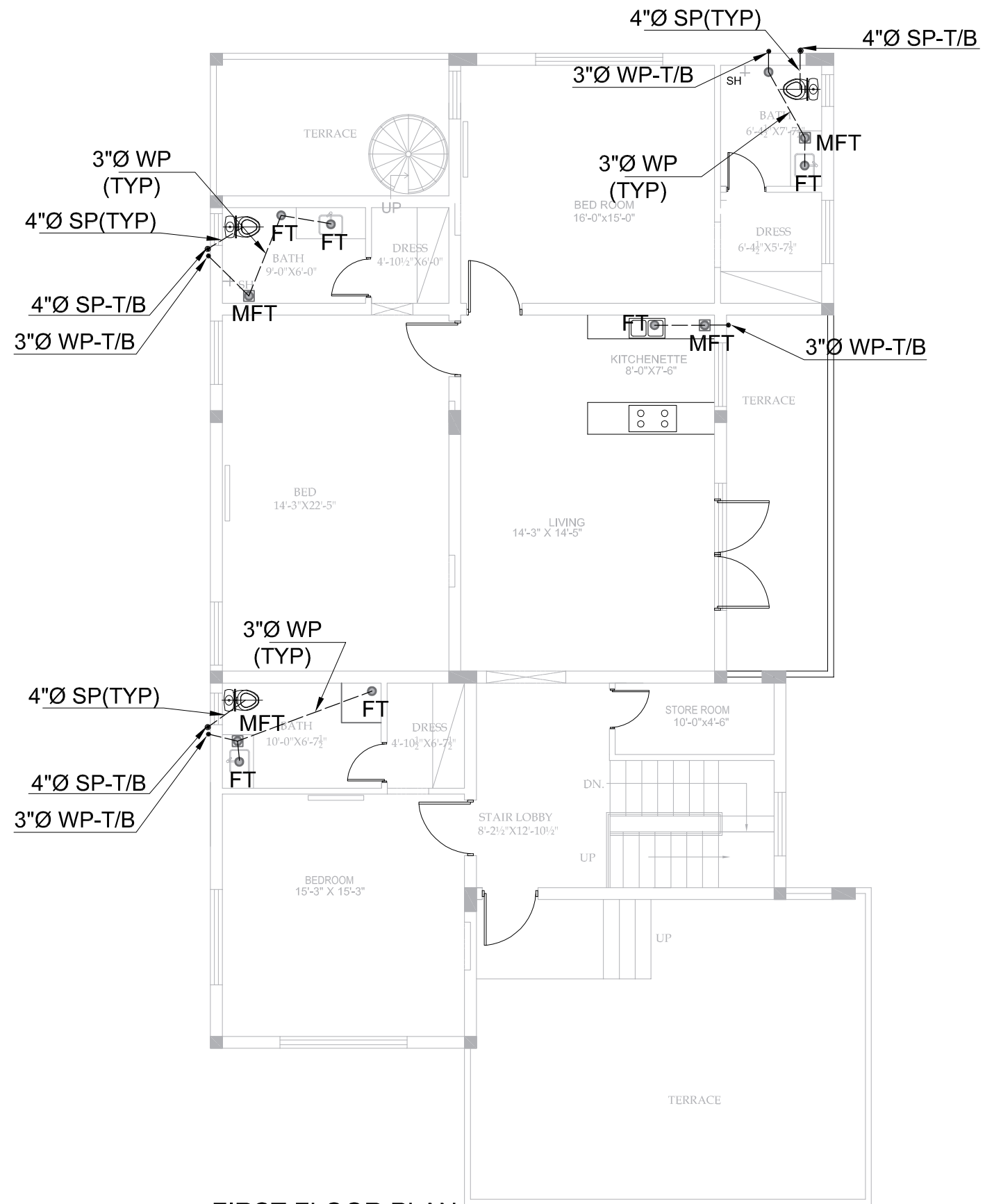
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **GROUND FLOOR PLAN
SANITARY DRAINAGE LAYOUT**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: MF	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY:	JOB NO.	SCALE: N.T.S
DRG. NO.		PL-02



**FIRST FLOOR PLAN
SANITARY DRAINAGE LAYOUT**

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	APP. BY

DESIGNER:



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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:

**FIRST FLOOR PLAN
SANITARY DRAINAGE LAYOUT**

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

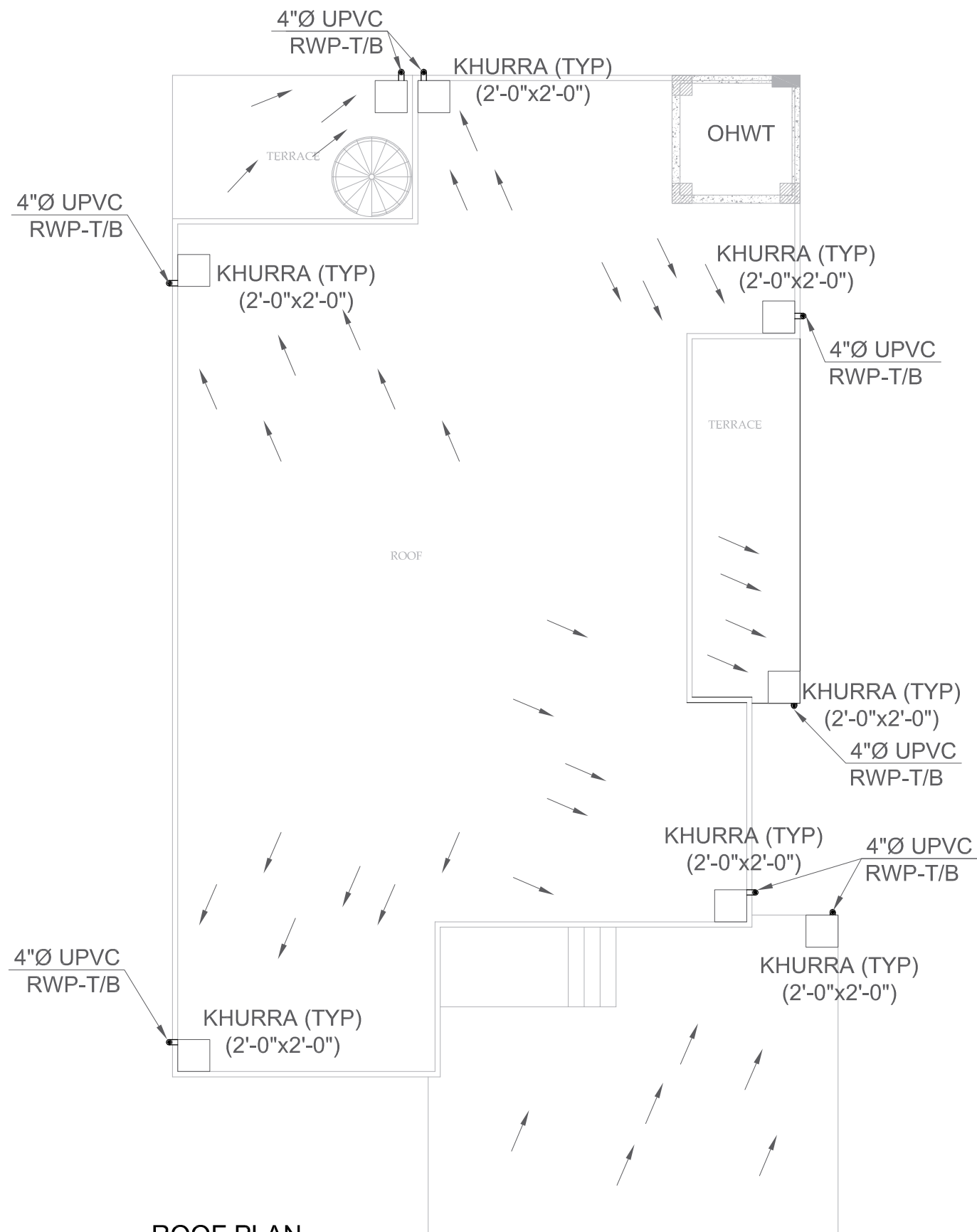
JOB NO.

SCALE:

N.T.S

DRG. NO.

PL-03



**ROOF PLAN
STORM WATER DRAINAGE LAYOUT**

ADDITION & REVISION				
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

DESIGNER:



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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

**ROOF PLAN
STORM WATER DRAINAGE
LAYOUT**

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

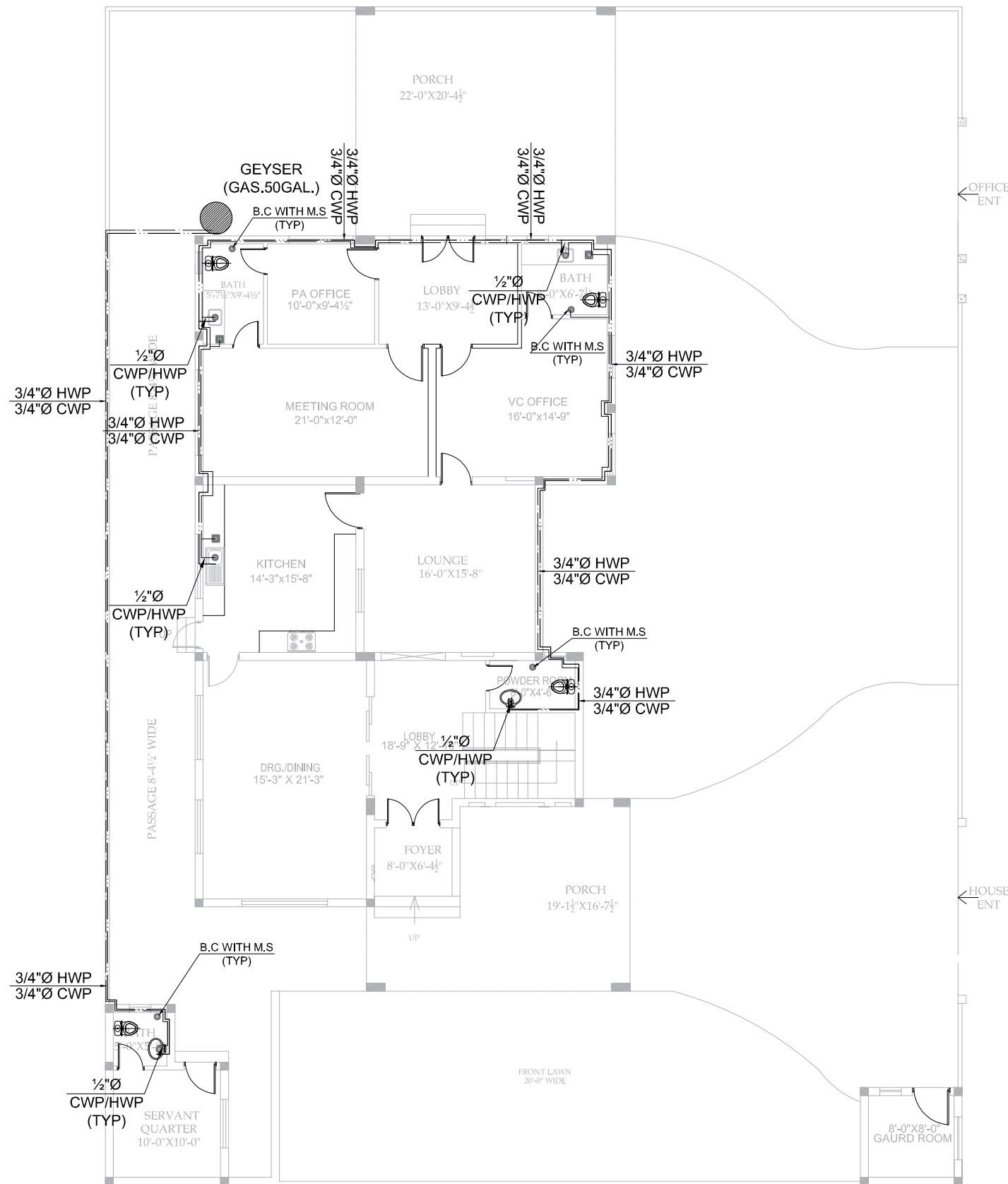
JOB NO.

SCALE:

N.T.S

DRG. NO.

PL-04



**GROUND FLOOR PLAN
WATER SUPPLY LAYOUT**

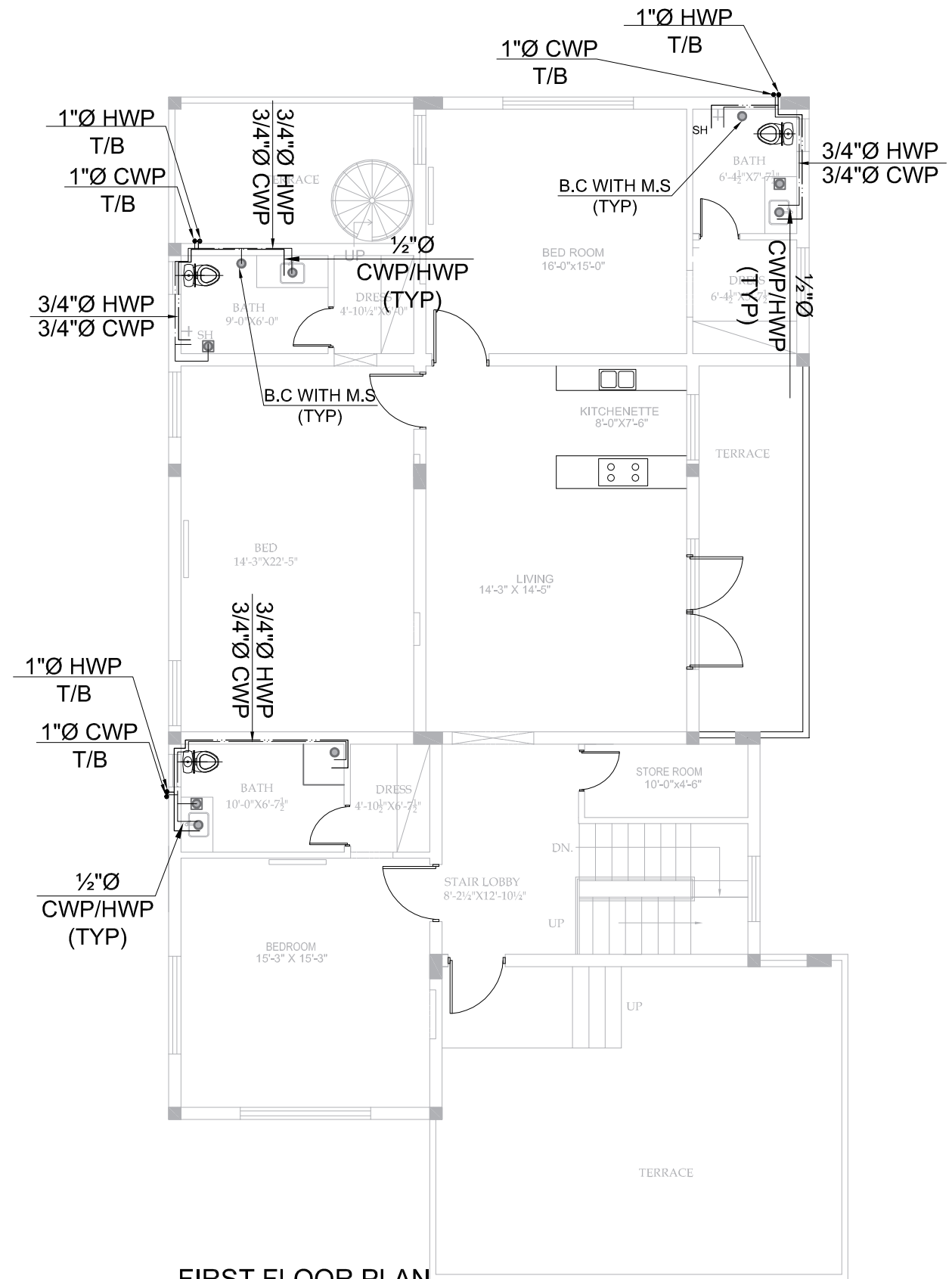
ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130



PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: **GROUND FLOOR PLAN WATER SUPPLY LAYOUT**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**
 DESIGNED BY: MF
 APPROVED BY: [Signature]
 DATE: MARCH, 2022
 DRAWN BY: [Signature]
 JOB NO.: [Number]
 SCALE: N.T.S
 DRG. NO.: PL-05



**FIRST FLOOR PLAN
WATER SUPPLY LAYOUT**

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

DESIGNER:



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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:

**FIRST FLOOR PLAN
WATER SUPPLY LAYOUT**

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

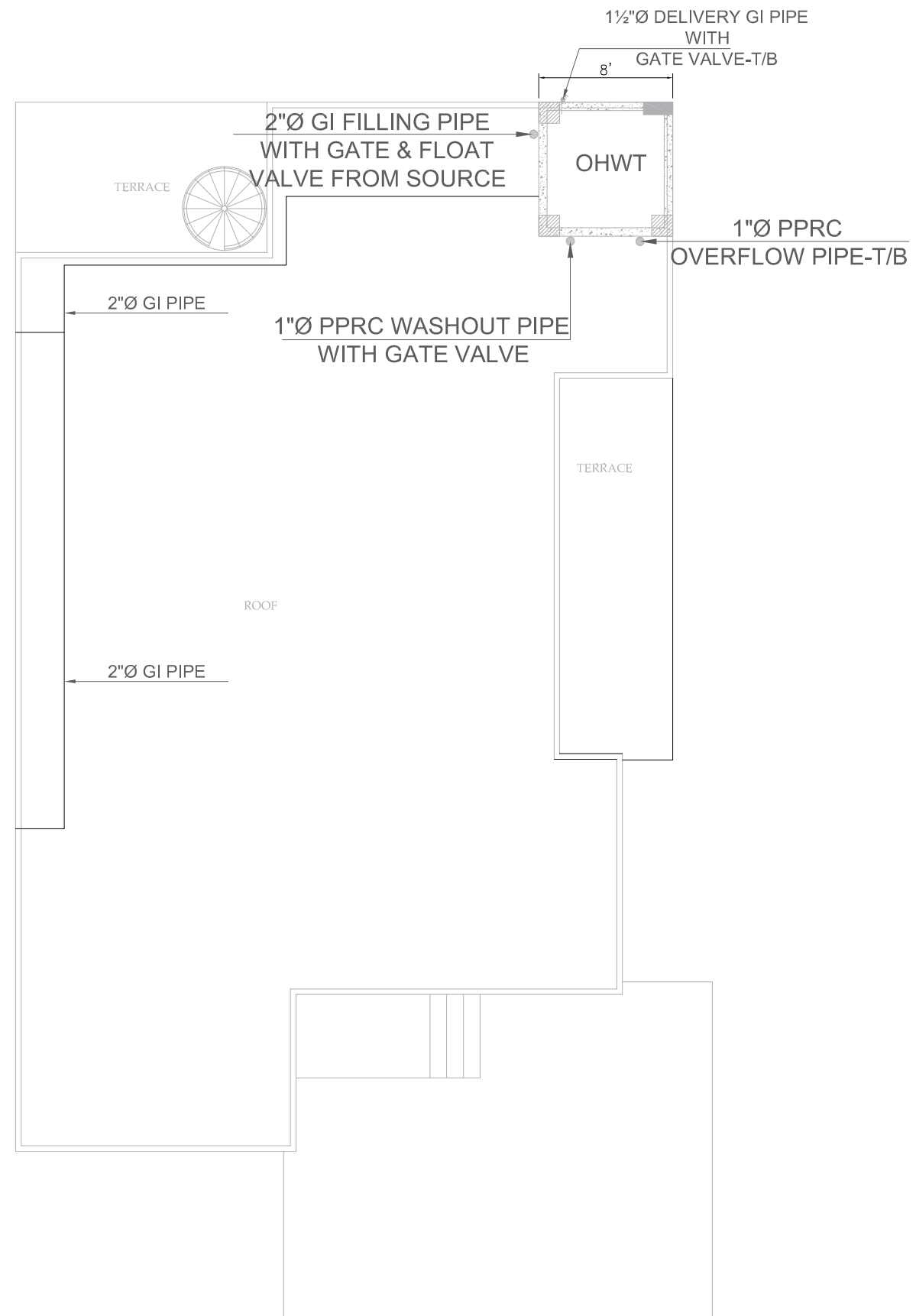
JOB NO.

SCALE:

N.T.S

DRG. NO.

PL-06



**ROOF PLAN
WATER SUPPLY LAYOUT**

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	APP. BY

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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
IJP Road Islamabad.

Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore

Ph: +92-42-37250130

PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE:

**ROOF PLAN
WATER SUPPLY LAYOUT**

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE:

MARCH, 2022

DRAWN BY:

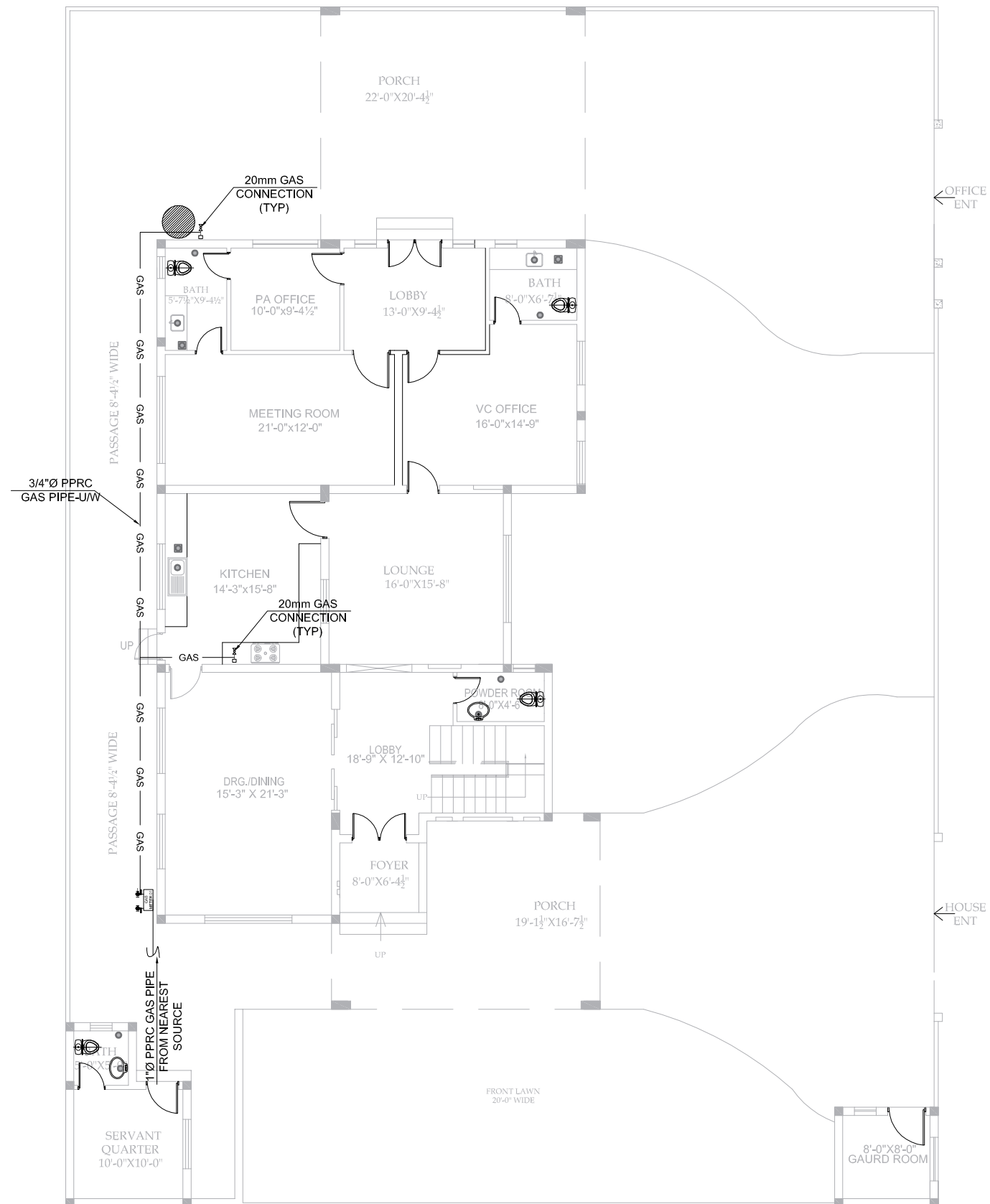
JOB NO.

SCALE:

N.T.S

DRG. NO.

PL-07



**GROUND FLOOR PLAN
GAS SUPPLY LAYOUT**

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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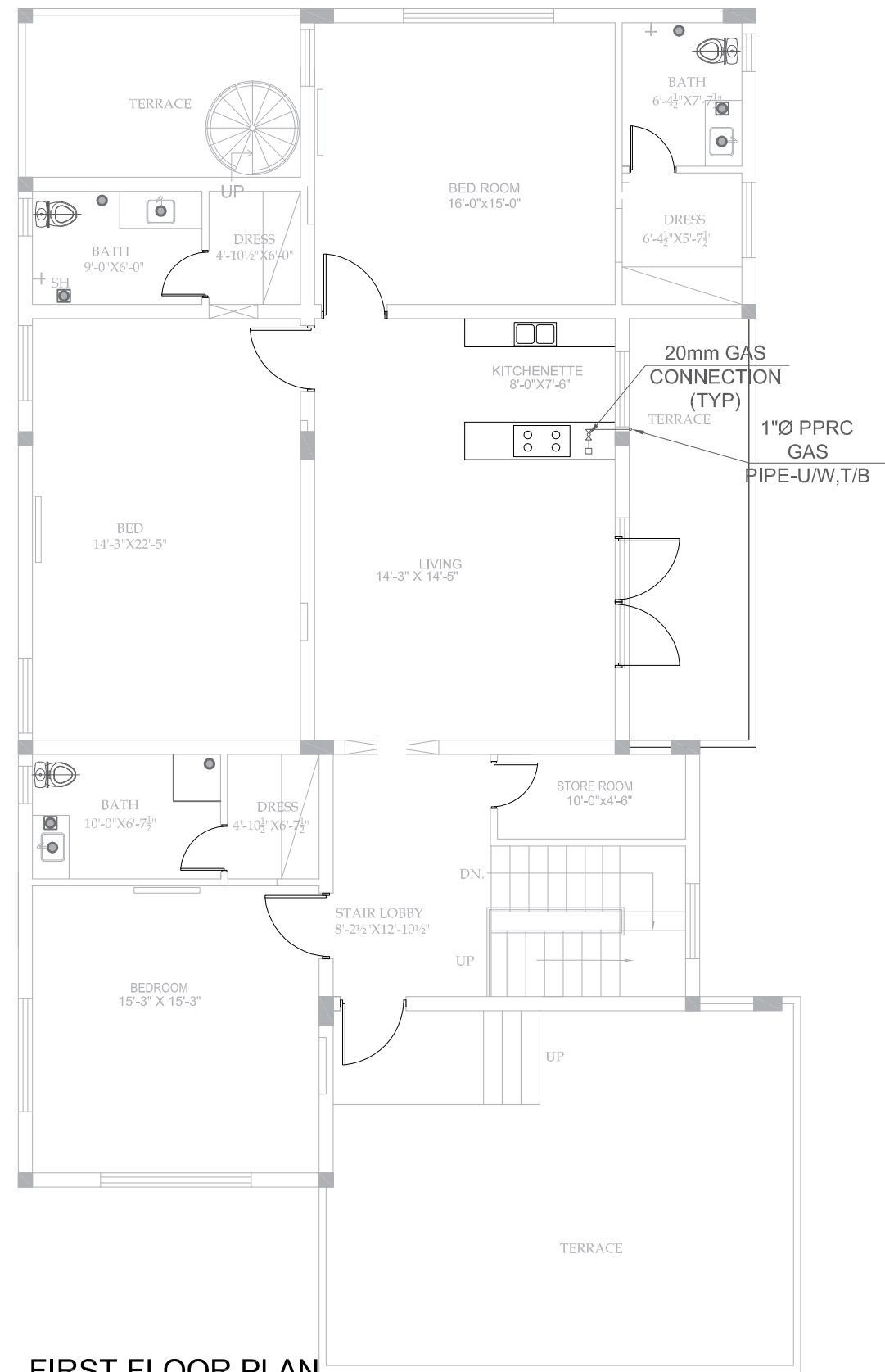
PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**

TITLE: **GROUND FLOOR PLAN
GAS SUPPLY LAYOUT**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: MF	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY:	JOB NO.	SCALE: N.T.S

DRG. NO. PL-08



**FIRST FLOOR PLAN
WATER SUPPLY LAYOUT**

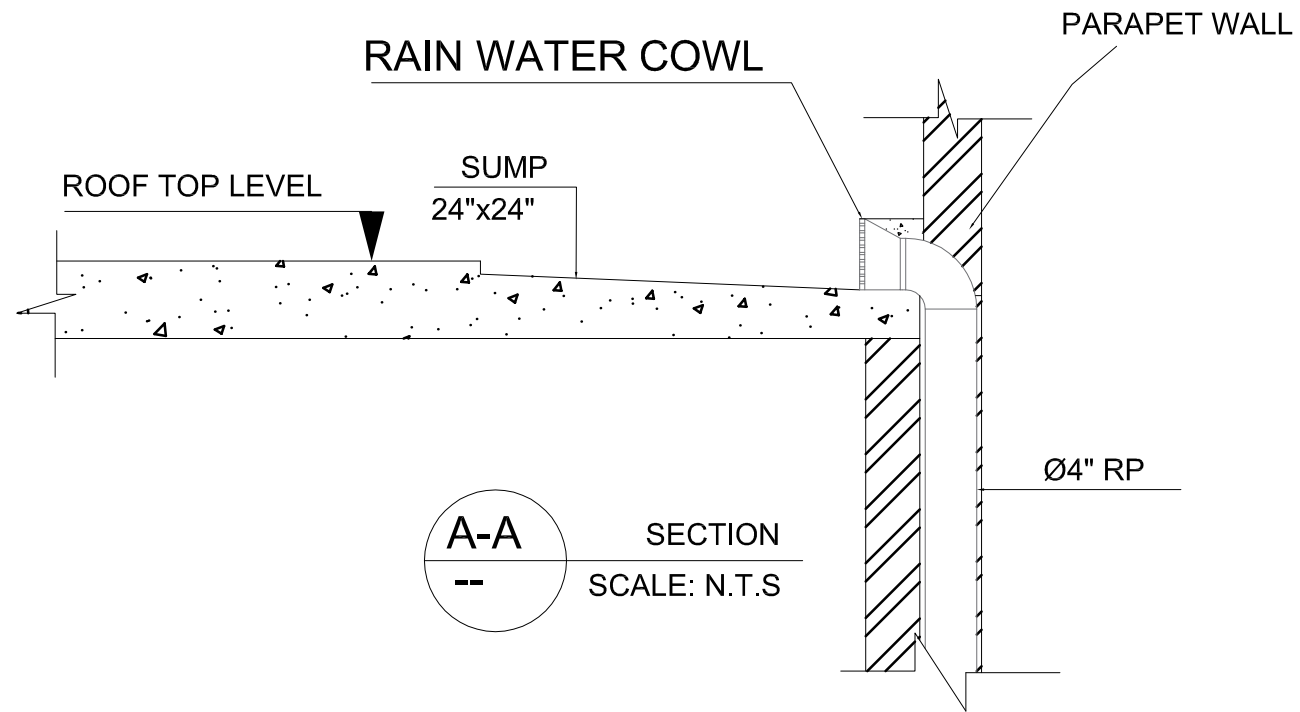
ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	APP. BY

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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
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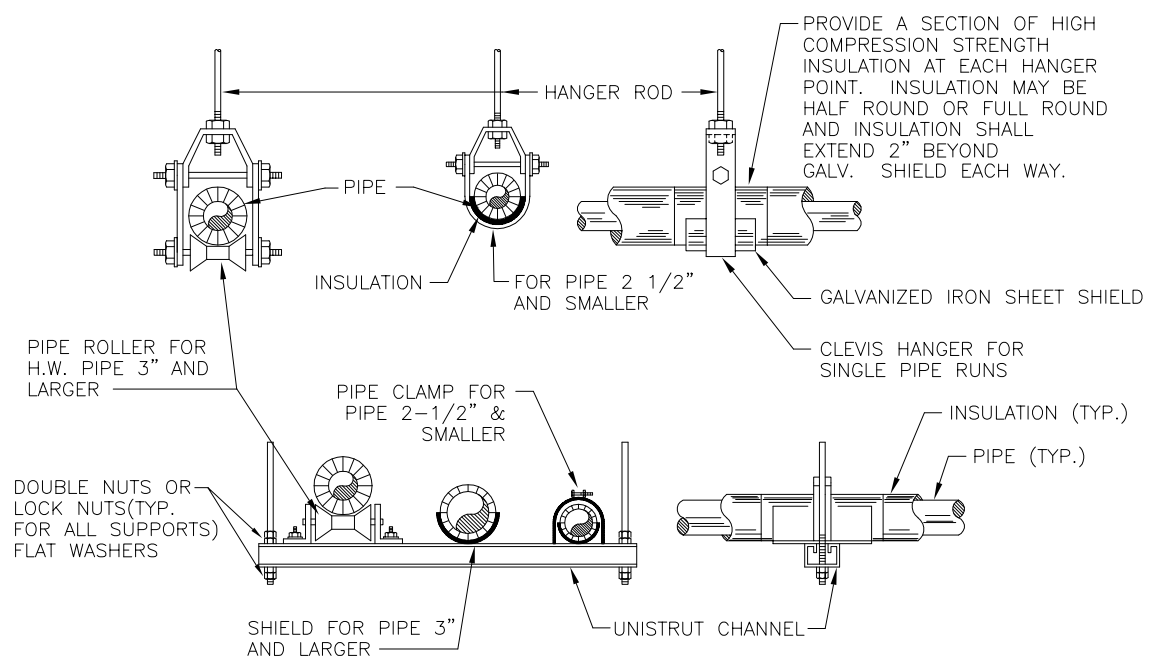


PROJECT: **"PROVISION OF MISSING FACILITIES FOR THE
SHAIKH AYAZ UNIVERSITY SHIKARPUR"**
 TITLE: **FIRST FLOOR PLAN
GAS SUPPLY LAYOUT**

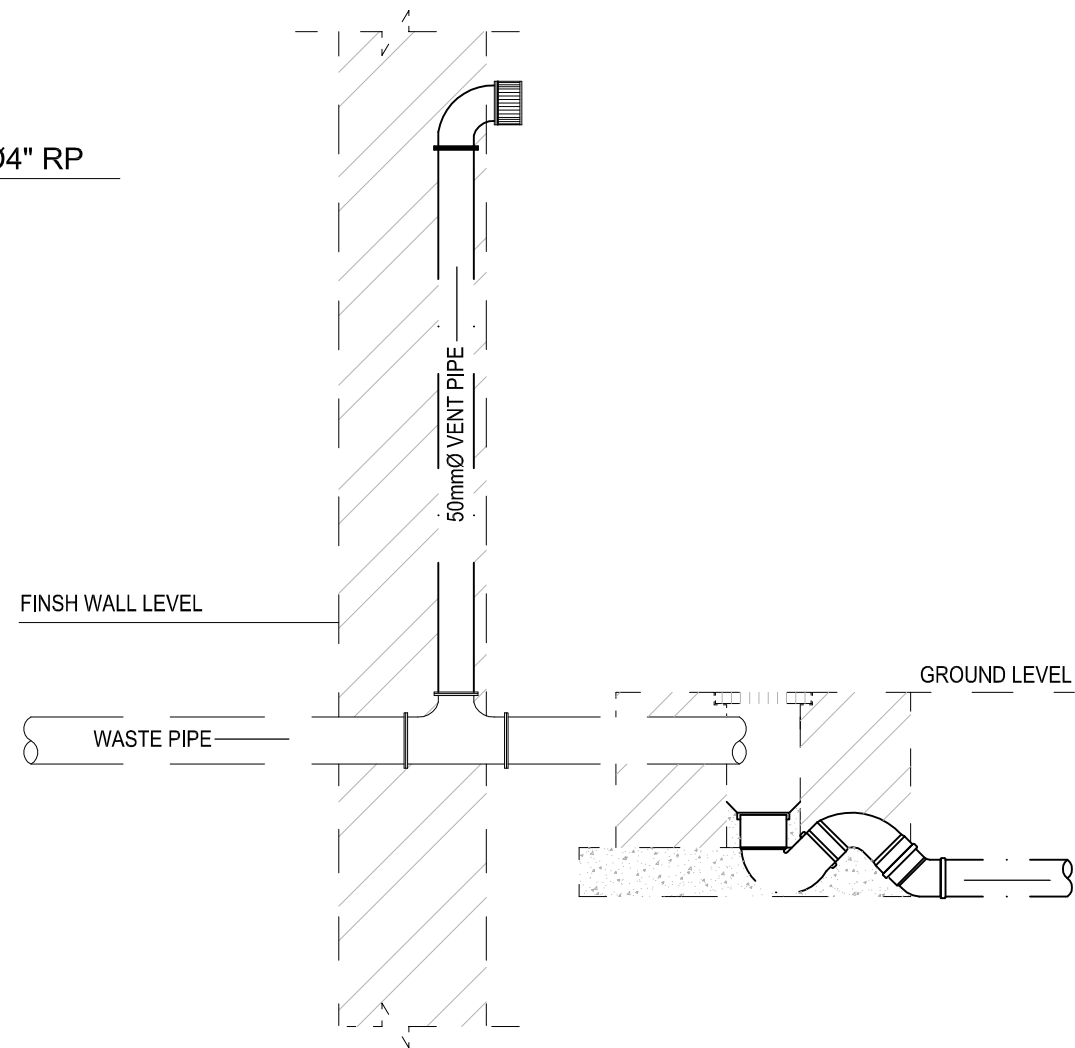
CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**
 DESIGNED BY: MF
 APPROVED BY: [Signature]
 DATE: MARCH, 2022
 DRAWN BY: [Signature]
 JOB NO.: [Signature]
 SCALE: N.T.S
 DRG. NO. PL-09



7 DETAIL OF ROOF TOP DRAIN
NO SCALE



WATER PIPING HANGERS AND SUPPORTS DETAIL
NO SCALE



DETAIL OF WASTE VENT PIPE

DETAIL OF WASTE VENT PIPE
NO SCALE

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

DESIGNER:



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Ph: +92-51-4848375, Fax: +92-51-4848375

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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"

TITLE:

TYPICAL DETAILS

CLIENT:

SHAIKH AYAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

MF

APPROVED BY:

DATE: MARCH, 2022

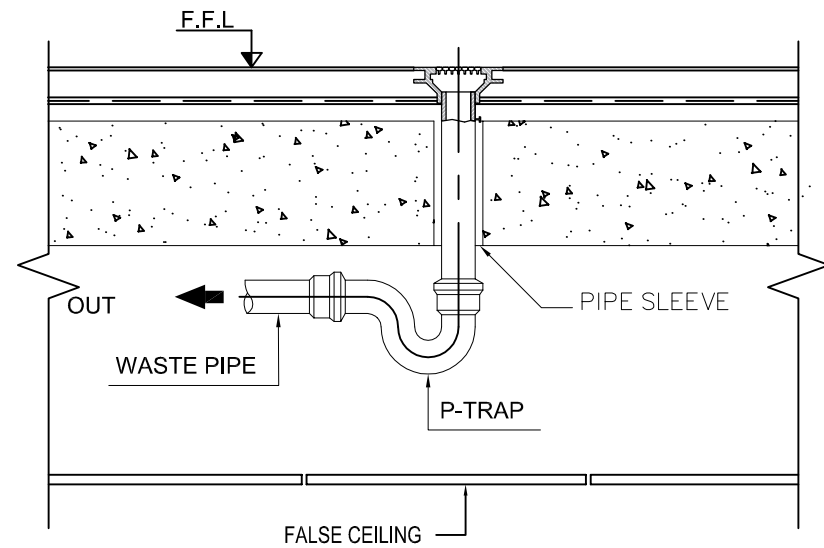
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JOB NO.

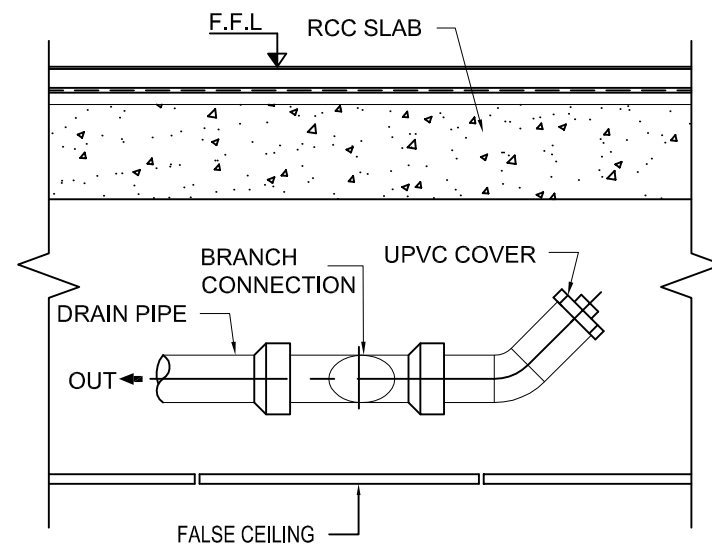
SCALE: N.T.S

DRG. NO.

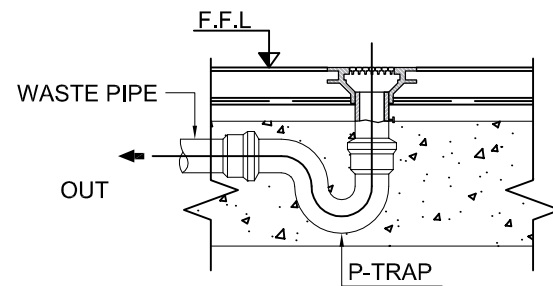
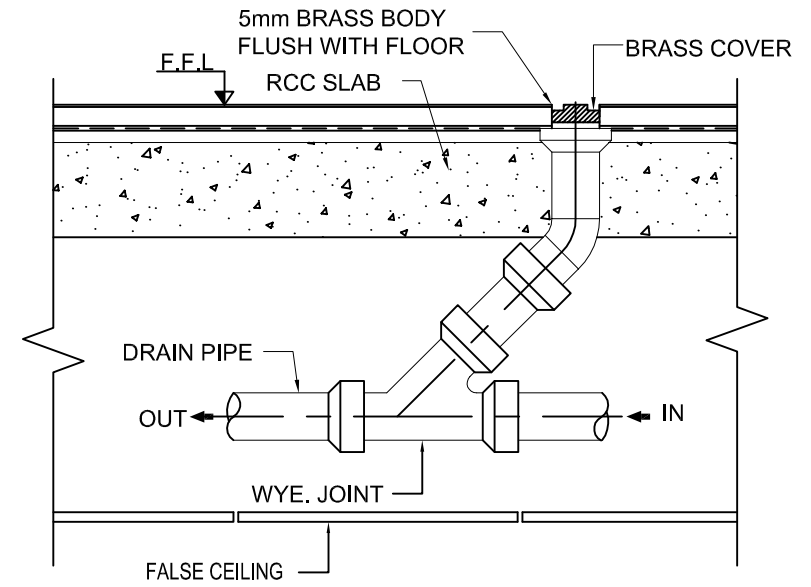
PL-10



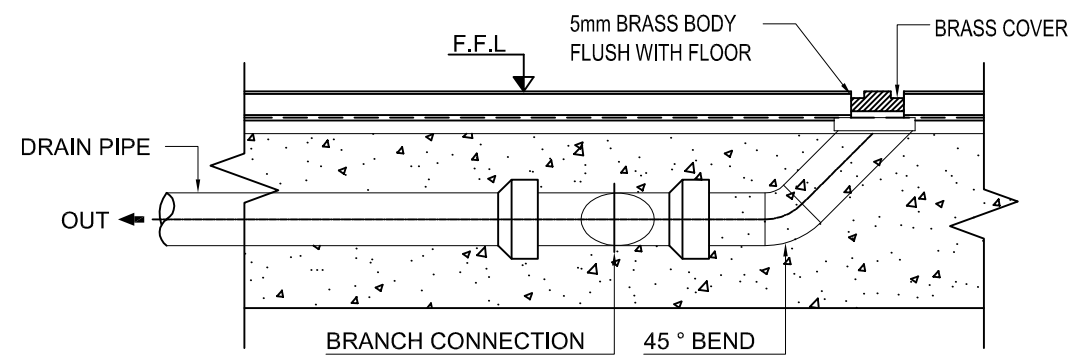
FLOOR DRAIN DETAIL



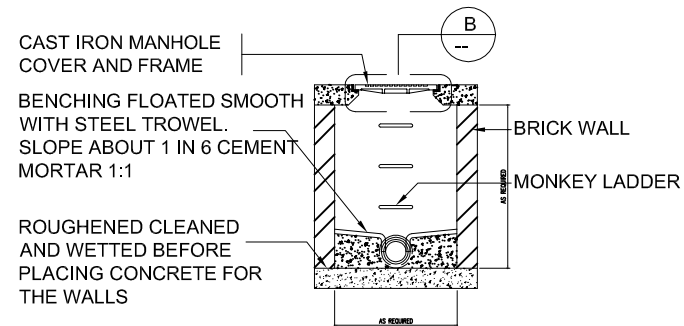
CLEAN OUT PLUG DETAIL



GROUND FLOOR DRAIN DETAIL

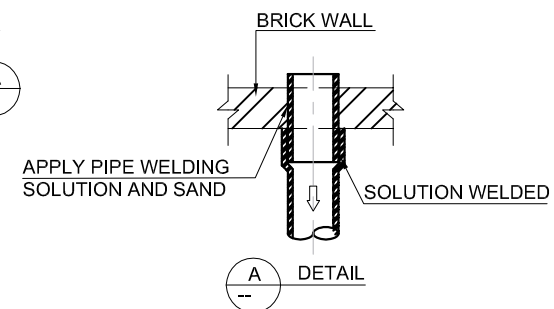
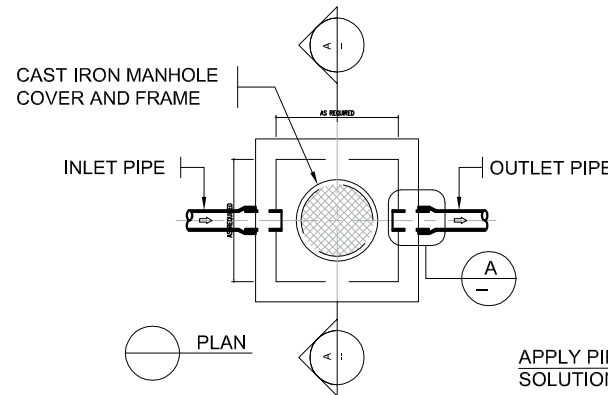


GROUND CLEAN OUT PLUG DETAIL



A-A SECTION

NOTE:- IF THE MANHOLE EXCEEDED TO 3' DEPTH THEN WE USE THAT MONKEY LADDER.



MANHOLE DETAIL

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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 Ph: +92-42-37250130

PROJECT: "PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"
 TITLE: **TYPICAL DETAILS**

CLIENT: **SHAIKH AYAZ UNIVERSITY SHIKARPUR**

DESIGNED BY: MF	APPROVED BY:	DATE: MARCH, 2022
DRAWN BY:	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-11	