



LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

LHUMS LIBRARY BLOCK
TENDER DRAWINGS
FEB 2024

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

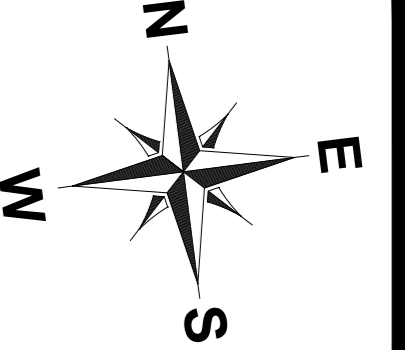
REGIONAL OFFICE:

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

MASTER PLAN

EXISTING ROAD

PROPOSED LIBRARY BLOCK



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



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 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: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK MASTER PLAN**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: AR.SALMAN
 APPROVED BY: A.S
 DATE: FEB-2024
 DRAWN BY: RANA ALI HAIDER
 JOB NO.
 SCALE: N.T.S
 DRG. NO. MP-01

3D VIEW

**LUMHS, LIBRARY
3D VIEW, OP - 03**



ADDITION & REVISION				
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PROJECT: **UPGRADATION AND IMPROVEMENT OF
PEOPLE NURSING SCHOOL, LIAQUAT
UNIVERSITY OF MEDICAL & HEALTH
SCIENCE JAMSHORO**

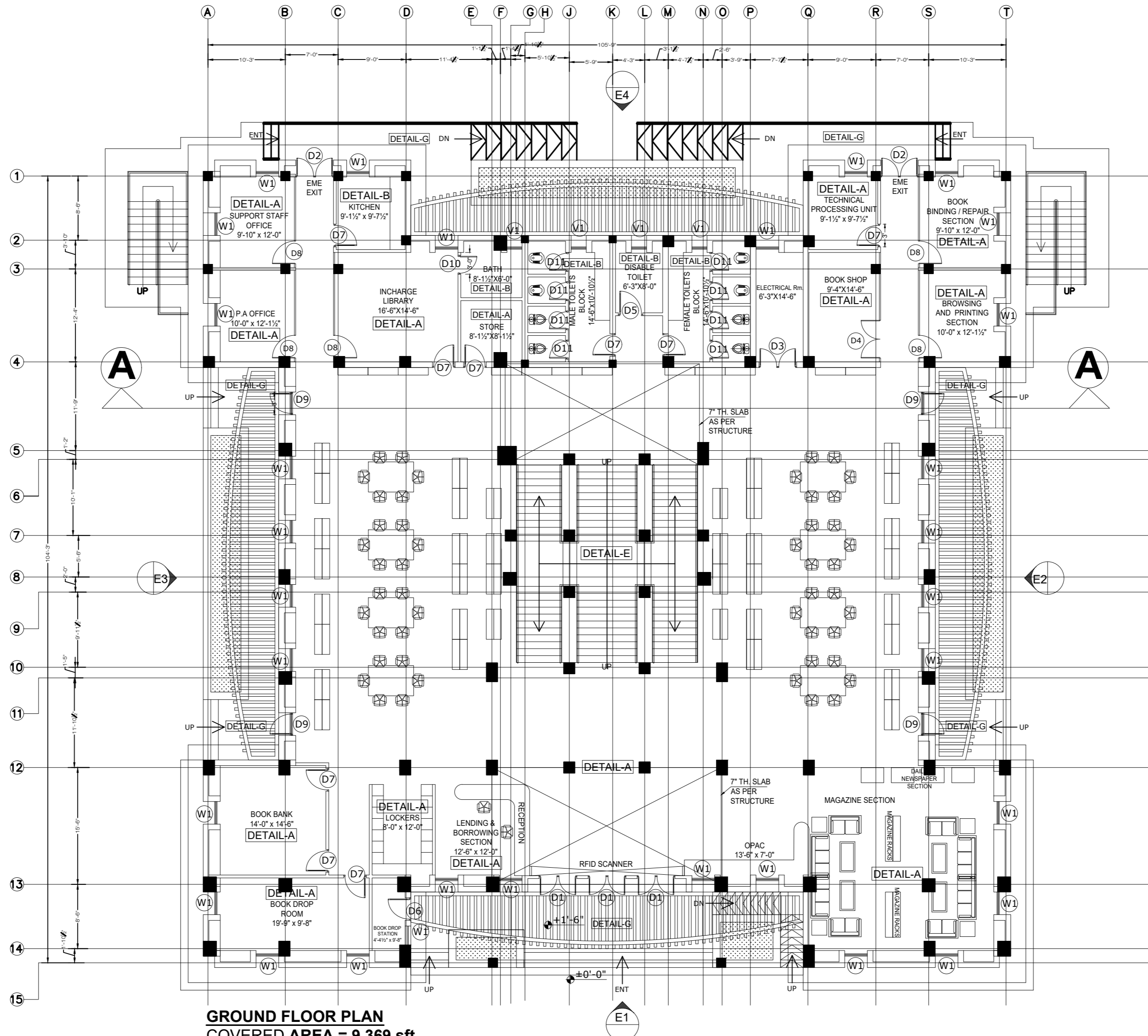
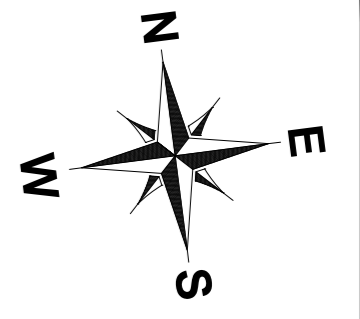
TITLE: **LUMHS LIBRARY BLOCK
3D VIEW**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	3D-01	

**ARCHITECTURAL
PLAN**



GROUND FLOOR PLAN
COVERED AREA = 9,369 sft
TOTAL COVERED AREA = 10,589 sft

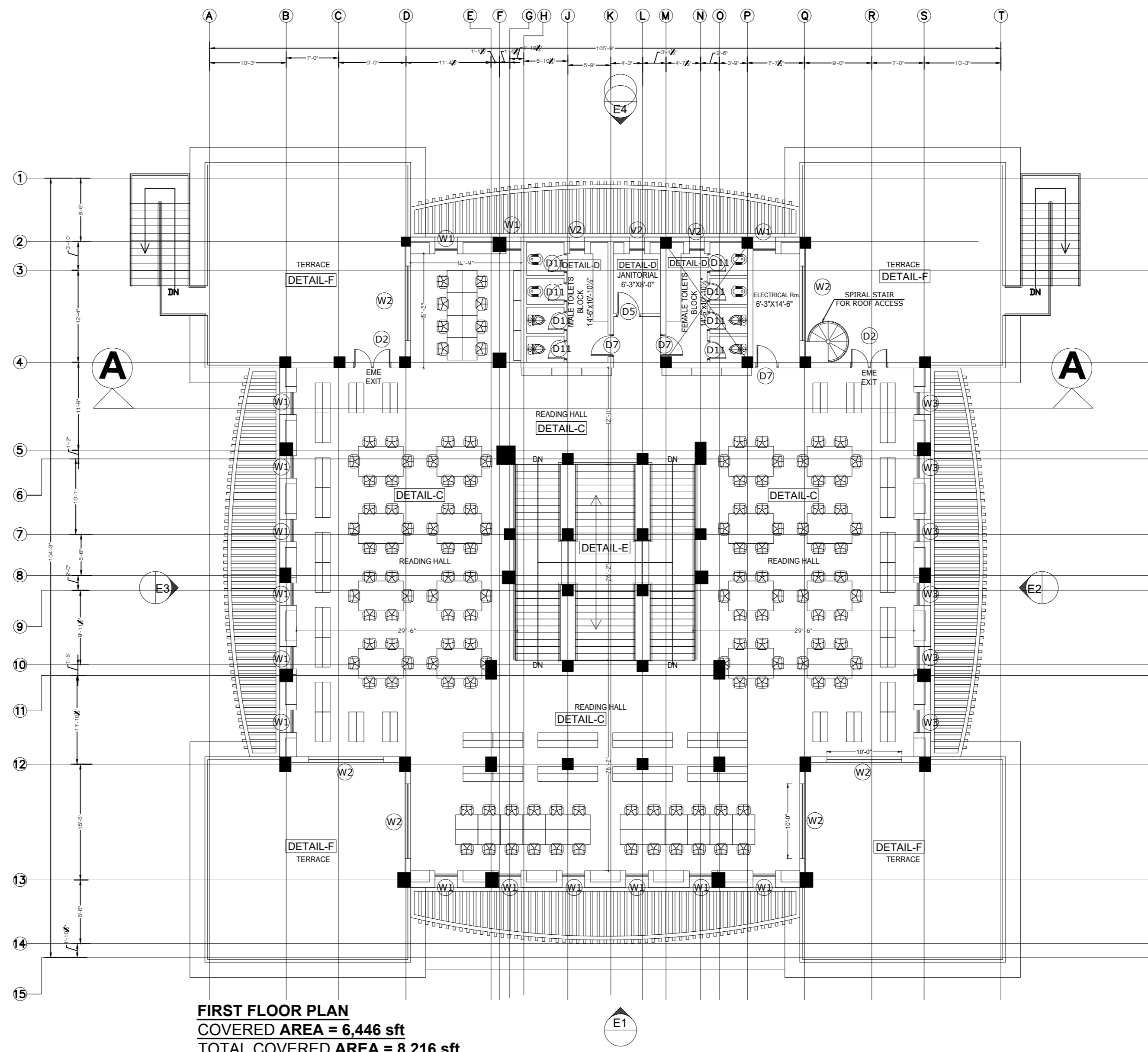
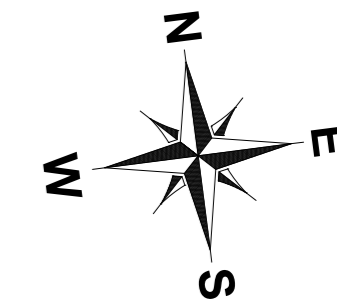
ADDITION & REVISION			
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR PLAN**
 CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-01	



FIRST FLOOR PLAN
COVERED AREA = 6,446 sft
TOTAL COVERED AREA = 8,216 sft

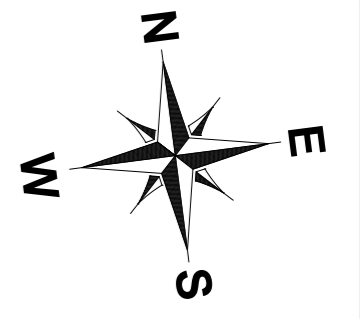
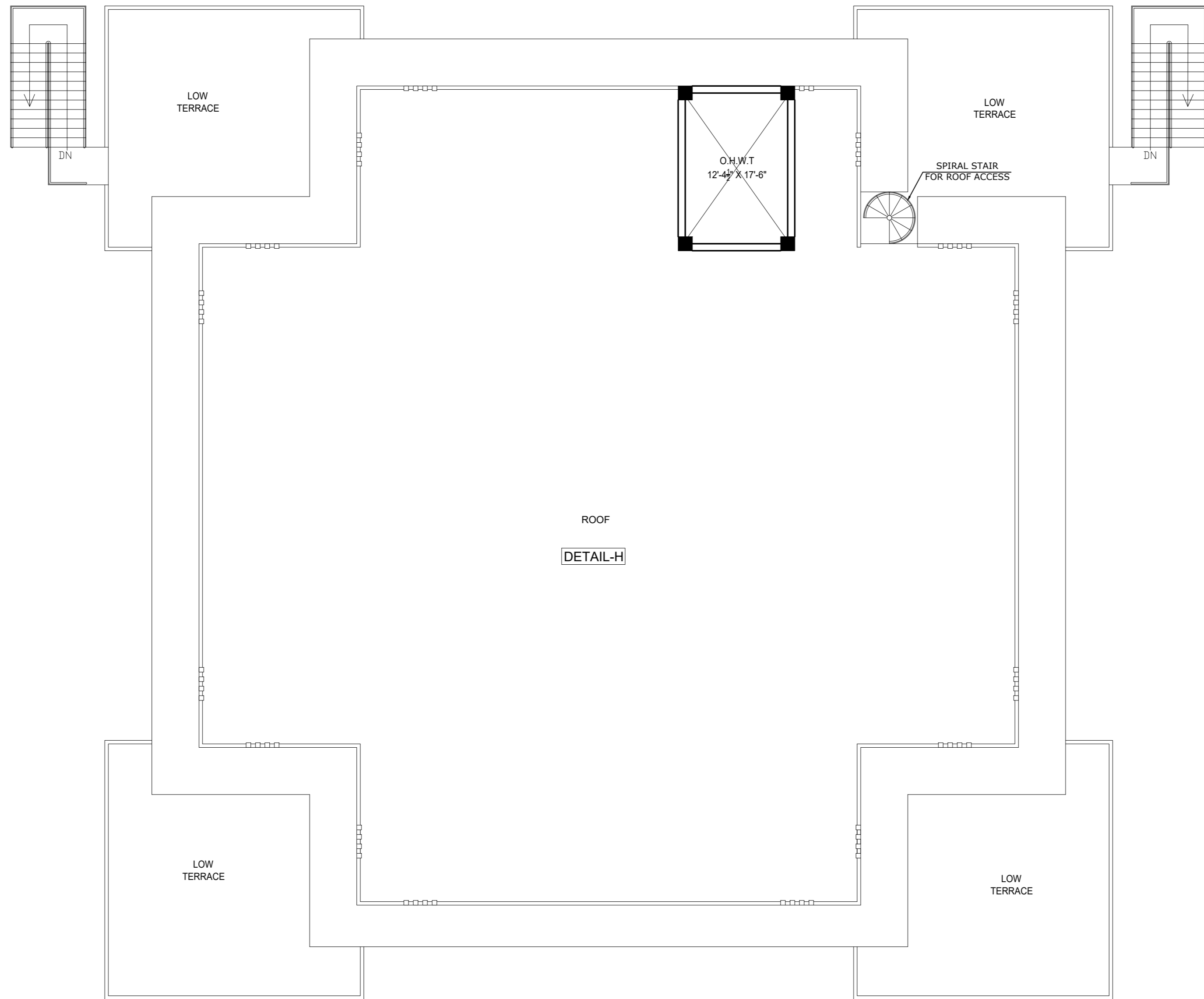
ADDITION & REVISION			
ADD/REV NO.	DATE	DESCRIPTION	DES. BY

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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR PLAN**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-02	



ROOF FLOOR PLAN

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



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO				
TITLE:	LUMHS LIBRARY BLOCK ROOF FLOOR PLAN		DESIGNED BY:	AR.SALMAN	APPROVED BY:	A.S	DATE :	FEB-2024
CAD filename:			DRAWN BY:	RANA ALI HAIDER	JOB NO.		SCALE:	N.T.S
			DRG. NO.	AR-03				

AREAS DETAIL

GROUND FLOOR COVERED AREA

COVERED AREA SLAB 1	9,369 SFT
COVERED AREA SLAB 2	572 SFT
COVERED AREA OF SHEDS	648 SFT
TOTAL COVERED AREA	10,589 SFT

FIRST FLOOR COVERED AREA

COVERED AREA	6,446 SFT
COVERED AREA OF SHEDS	1,770 SFT
TOTAL COVERED AREA	8,216 SFT

TOTAL COVERED AREA

GRAND TOTAL OF COVERED AREA	18,805 SFT
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ADDITION & REVISION			
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY / CHK. BY / APP. BY

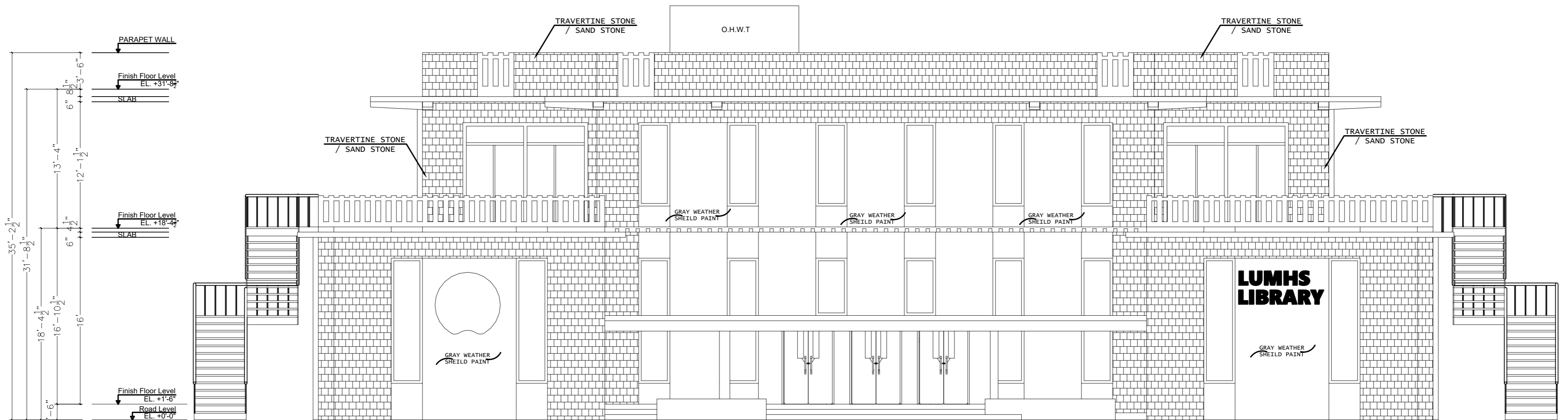


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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LUMHS LIBRARY BLOCK AREAS DETAIL	DESIGNED BY: AR.SALMAN
	APPROVED BY: A.S
	DATE: FEB-2024
	DRAWN BY: RANA ALI HAIDER
	JOB NO.
	SCALE: N.T.S
CAD filename:	DRG. NO. AR-04



ELEVATION E1

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



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PROJECT: **UPGRADATION AND IMPROVEMENT OF
PEOPLE NURSING SCHOOL, LIAQUAT
UNIVERSITY OF MEDICAL & HEALTH
SCIENCE JAMSHORO**

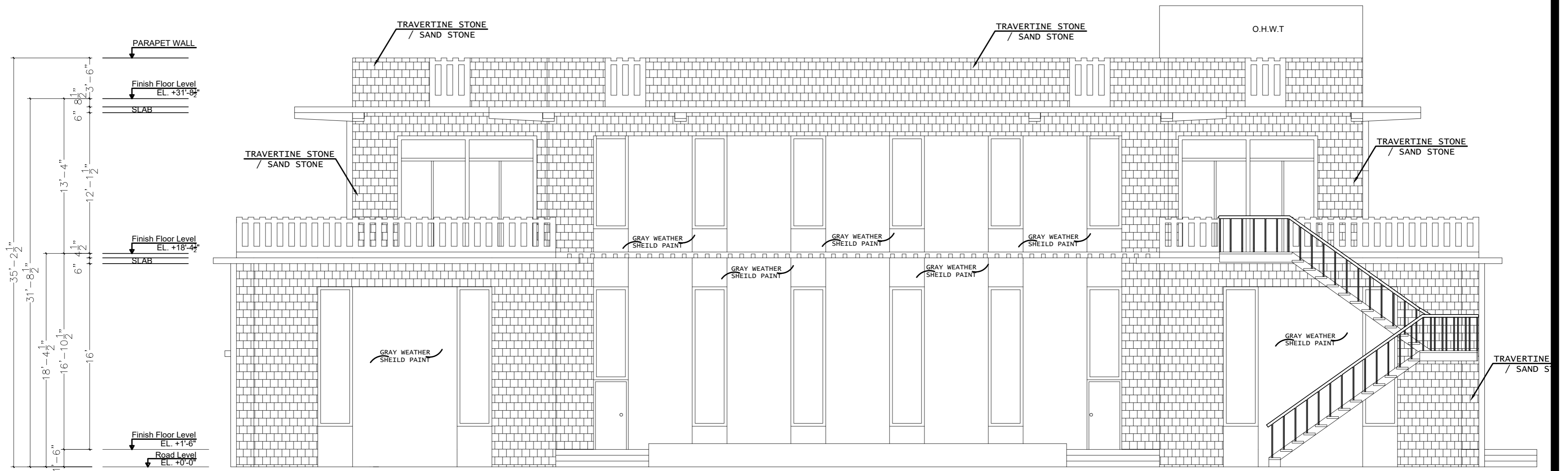
TITLE: **LUMHS LIBRARY BLOCK
ELEVATION 1**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S

DRG. NO. AR-05



ELEVATION E2

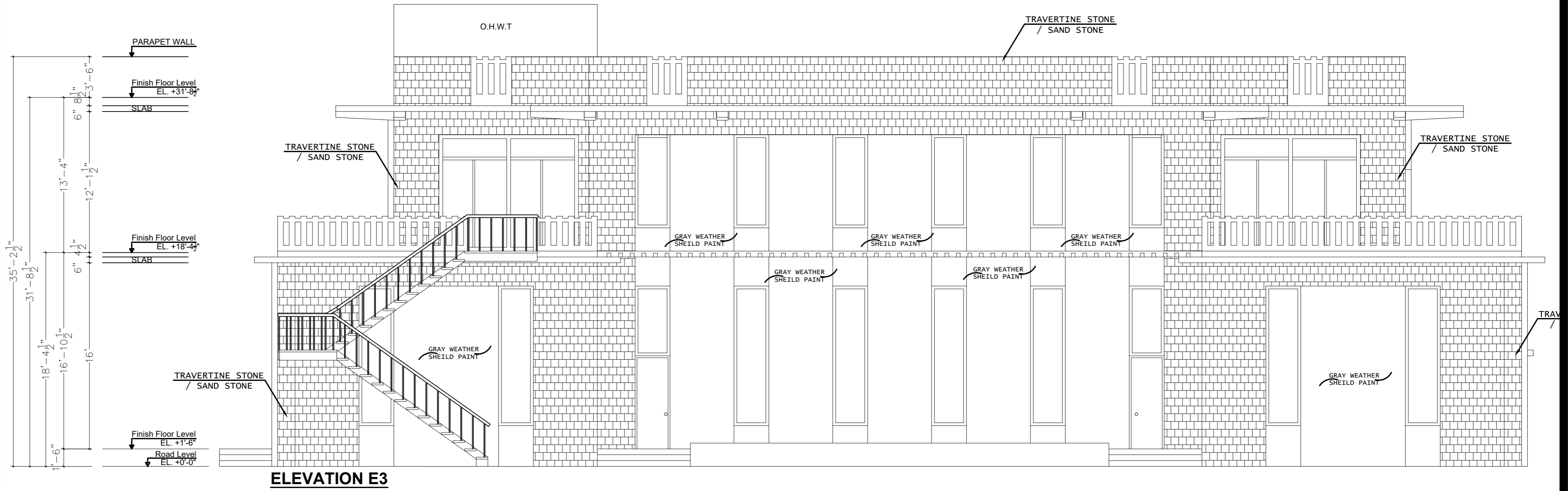
ADDITION & REVISION			
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY / CHK. BY / APP. BY



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS LIBRARY BLOCK ELEVATION 2	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
AR.SALMAN	A.S	FEB-2024
DRAWN BY:	JOB NO.	SCALE:
RANA ALI HAIDER		N.T.S
DRG. NO.	AR-06	




ELEVATION E3

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

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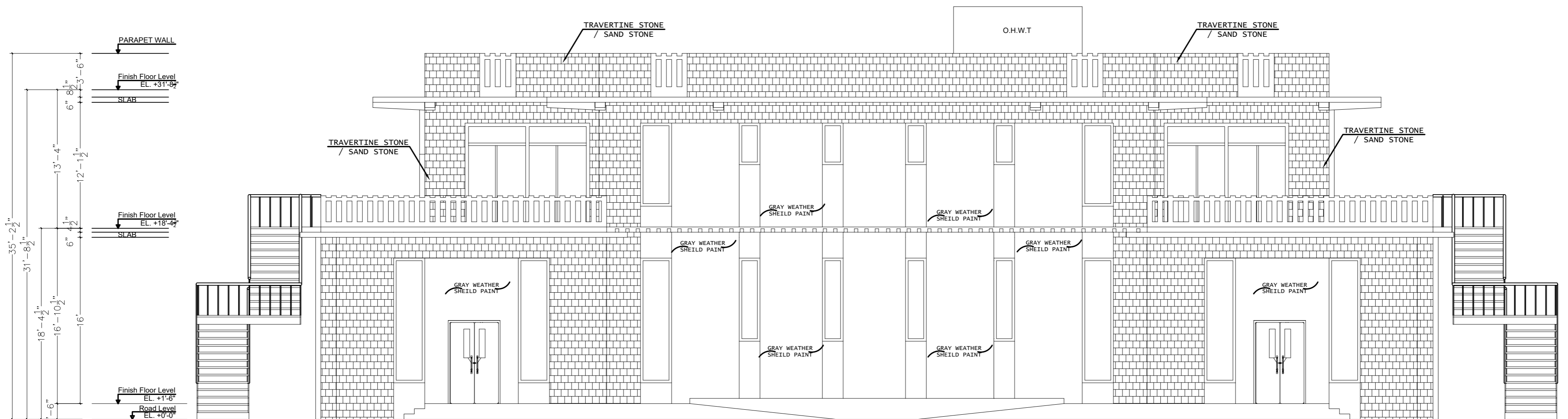
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK ELEVATION 3**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-07	



ELEVATION E4

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

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Email: newvisionec@yahoo.com

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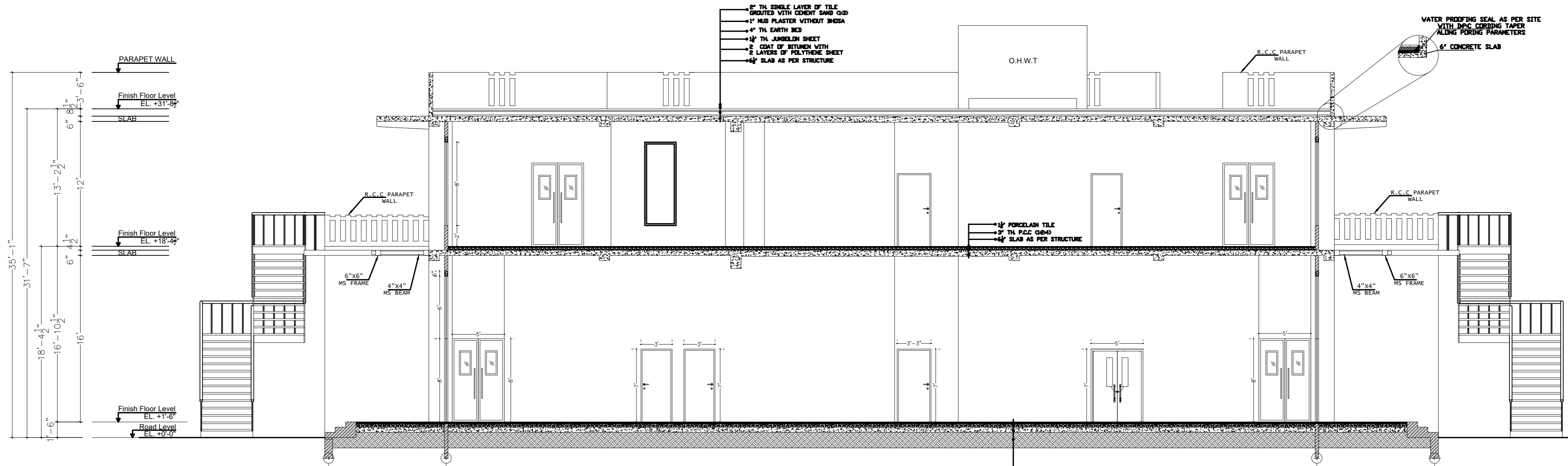
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK**
ELEVATION 4

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.		AR-08



SECTION AT A-A

AS PER STRUCTURE

- 1/2" TH PORCELAIN TILE
- 2" TH PCC 1:4 UNDER FLOOR
- 4" TH SAND PROPERLY COMPACTED
- 4" TH BRICK SLAB
- WELL COMPACTED EARTH

35'-1"
31'-7"
18'-4 1/2"
16'-10 1/2"
16'-0"
1'-6"
Road Level EL. +0'-0"
Finish Floor Level EL. +1'-6"
6" 4 1/2"
6" 4 1/2"
12'
13'-2 1/2"
6" 8 1/2"
23'-6"
Finish Floor Level EL. +18'-4"
SLAB
Finish Floor Level EL. +31'-8"
SLAB
PARAPET WALL

- 2" TH SINGLE LAYER OF TILE GROUTED WITH CEMENT SAND G33
- 1" MILD PLASTER WITHOUT BRISA
- 4" TH EARTH BED
- 1/4" TH JUNGHON SHEET
- 2 COAT OF BITUMEN WITH 2 LAYERS OF POLYTHENE SHEET
- 6" TH SLAB AS PER STRUCTURE

WATER PROOFING SEAL AS PER SITE WITH JPC CURING TAPER ALONG PILING PARAMETERS
6" CONCRETE SLAB

ADDITION & REVISION				
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
TITLE:	LUMHS LIBRARY BLOCK SECTION AT A-A		
CAD filename:			

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY:	APPROVED BY:	DATE:	
AR.SALMAN	A.S	FEB-2024	
DRAWN BY:	JOB NO.	SCALE:	
RANA ALI HAIDER		N.T.S	
DRG. NO.	AR-09		

SCHEDULE OF OPENINGS

DOOR SCHEDULE

S.NO.	OPENINGS	DIMENSIONS	SILL LEVEL	DESCRIPTION
1	D1	5'-0" x 8'-0"	0'-0"	SOLID DOOR
2	D2	5'-0" x 8'-0"	0'-0"	FIRE RATED EMGERGENCY EXIT DOOR
3	D3	5'-0" x 7'-0"	0'-0"	SOLID FLUSH DOOR
4	D4	5'-0" x 7'-0"	0'-0"	ALUMINUM GLASS DOOR
5	D5	3'-3" x 7'-0"	0'-0"	UPVC
6	D6	3'-0" x 7'-0"	0'-0"	SOLID DOOR
7	D7	3'-0" x 7'-0"	0'-0"	SOLID FLUSH DOOR
8	D8	3'-0" x 8'-0"	0'-0"	ALUMINUM GLASS DOOR
9	D9	3'-0" x 8'-0"	0'-0"	SOLID FLUSH DOOR
10	D10	3'-0" x 7'-0"	0'-0"	UPVC
11	D11	2'-6" x 7'-0"	0'-0"	UPVC

WINDOW SCHEDULE

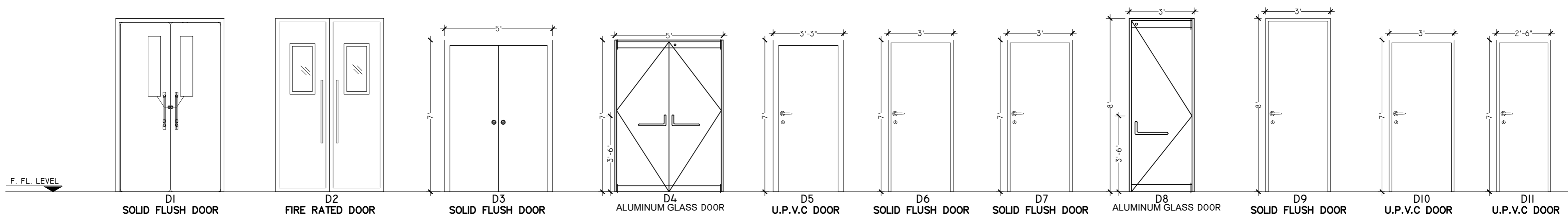
12	W1	3'-0" x 12'-0"	+2'-0"	ALUMINUM WINDOW
13	W2	10'-0" x 10'-0"	+0'-6"	ALUMINUM WINDOW
14	W3	3'-0" x 8'-0"	+2'-0"	ALUMINUM WINDOW
15	V1	2'-0" x 8'-0"	+6'-0"	ALUMINUM WINDOW
16	V2	2'-0" x 6'-0"	+4'-0"	ALUMINUM WINDOW

ADDITION & REVISION			
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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LUMHS LIBRARY BLOCK SCHEDULE OF OPENING	DESIGNED BY: AR.SALMAN APPROVED BY: A.S DATE: FEB-2024
CAD filename:	DRAWN BY: RANA ALI HAIDER JOB NO. SCALE: N.T.S
	DRG. NO. AR-10



ADDITION & REVISION			
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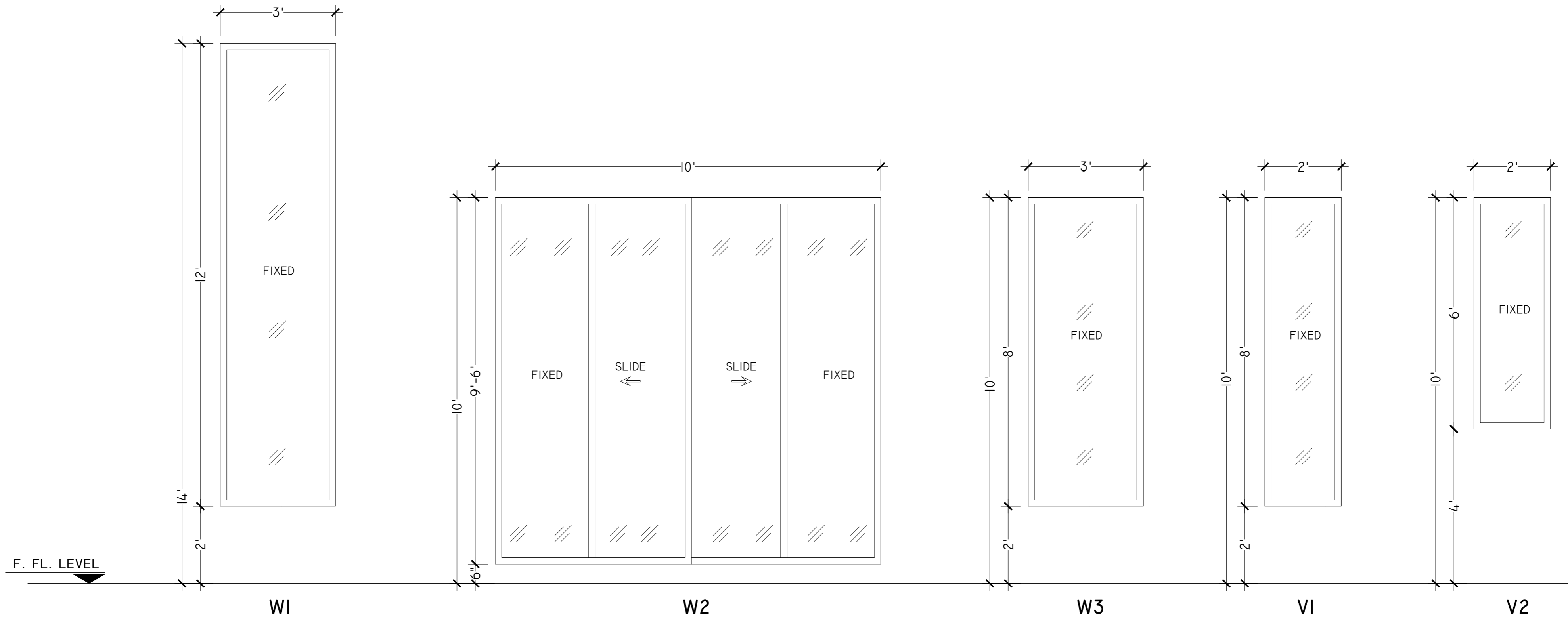
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK DOOR ELEVATION**

CAD filename: _____

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.		AR-11



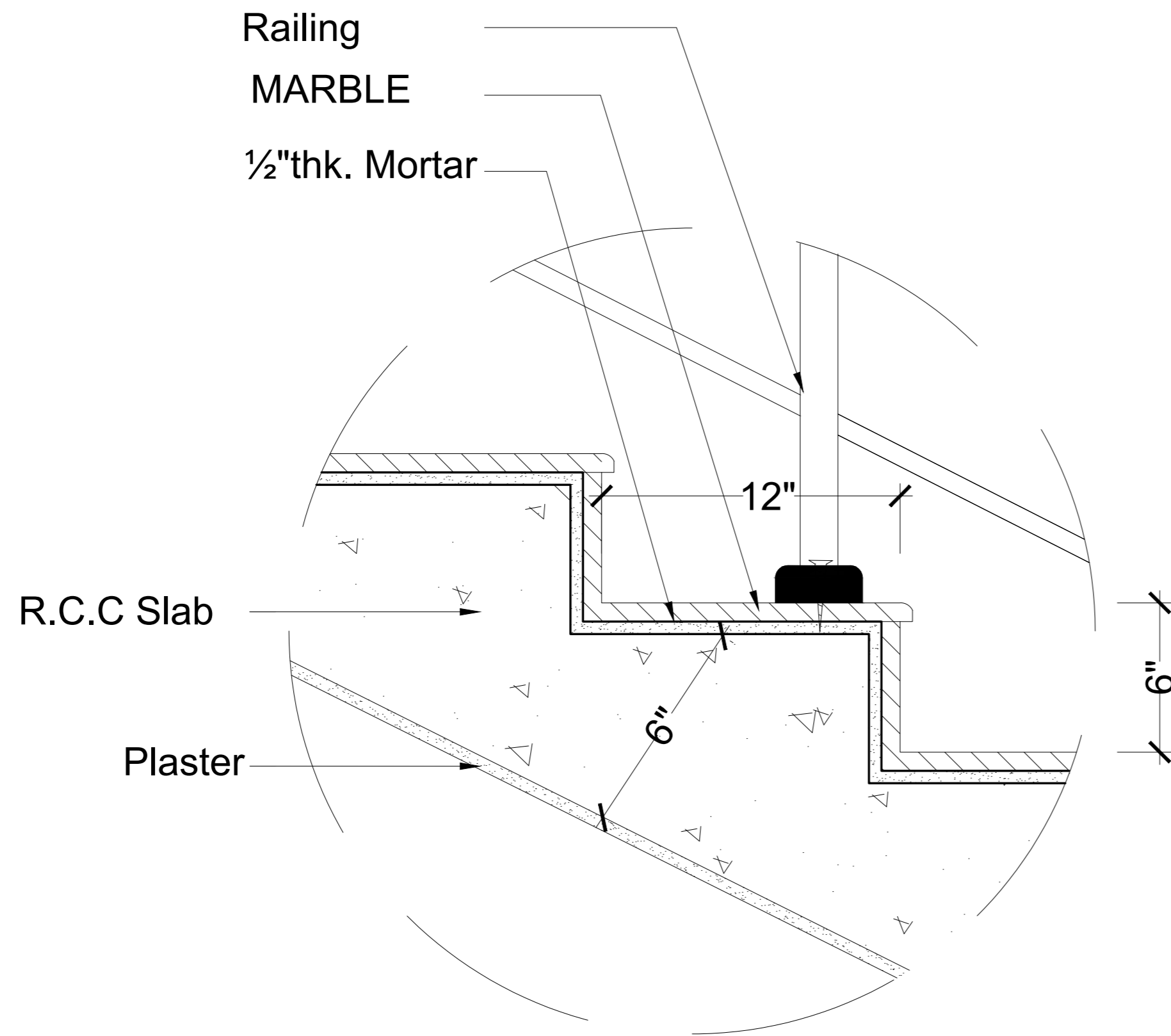
ADDITION & REVISION			
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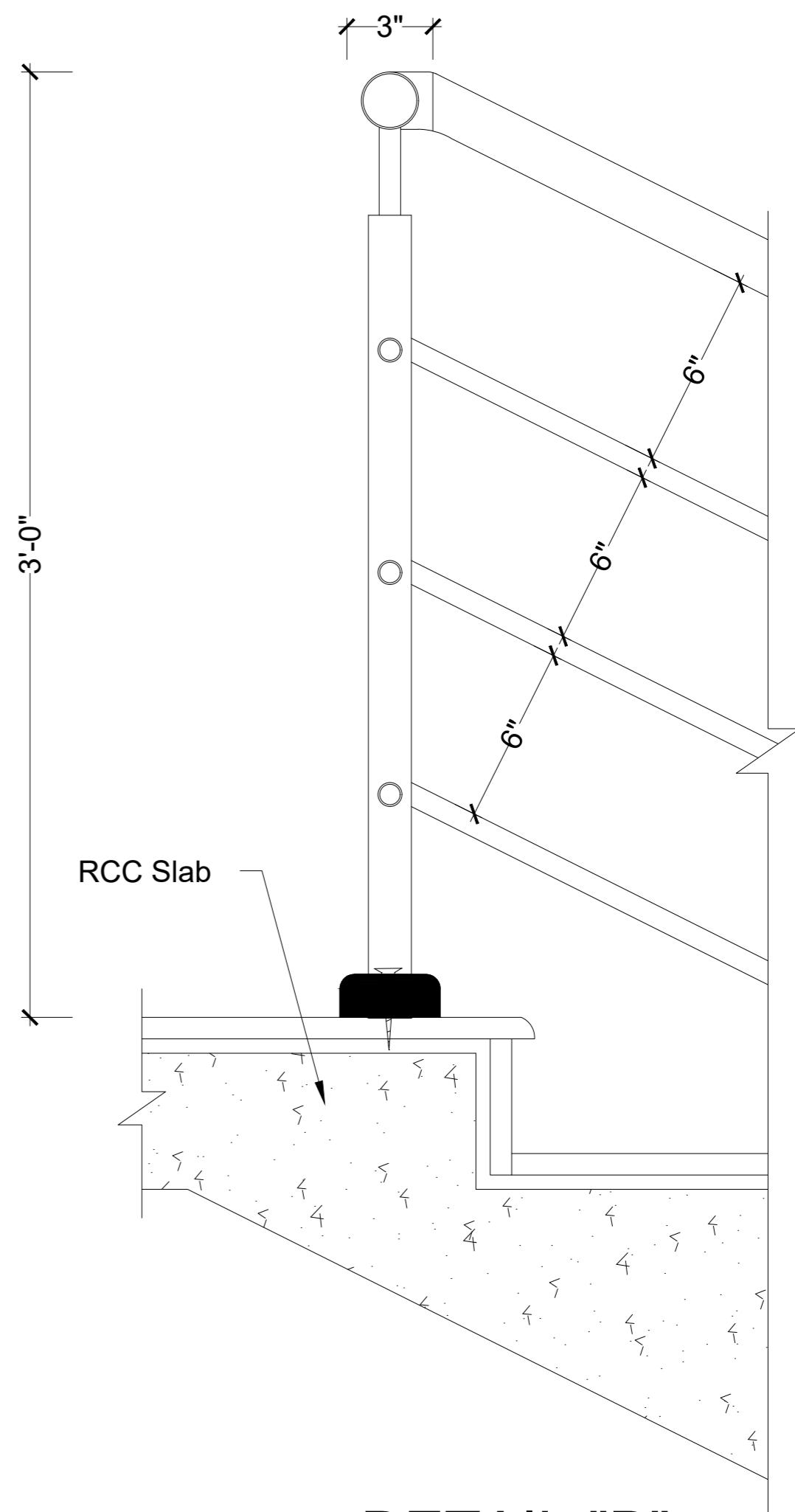
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK WINDOW ELEVATION**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: AR.SALMAN
 DRAWN BY: RANA ALI HAIDER
 DRG. NO. AR-12
 APPROVED BY: A.S
 JOB NO.
 DATE: FEB-2024
 SCALE: N.T.S



DETAIL "A"



DETAIL "B"

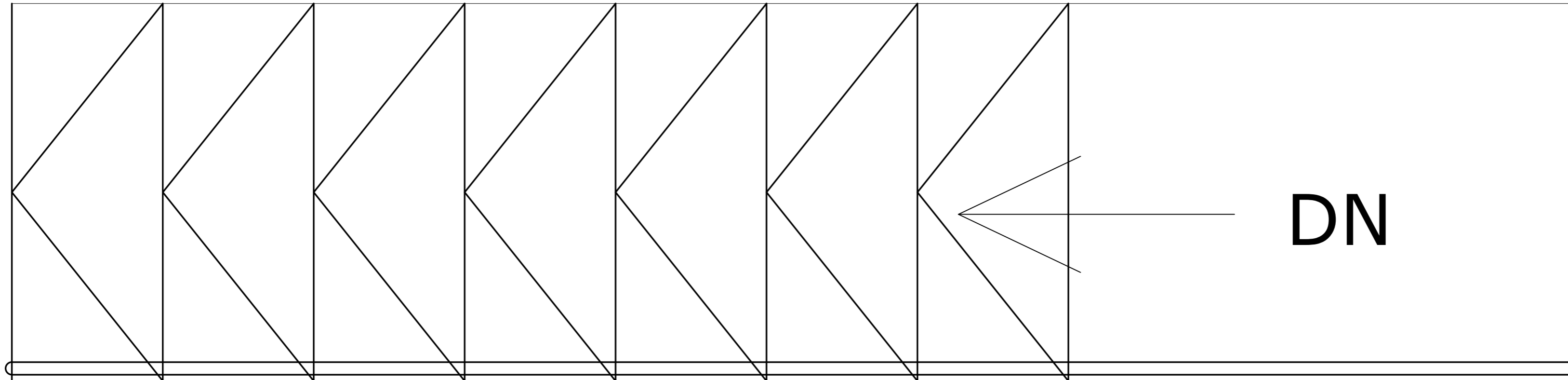
ADDITION & REVISION				
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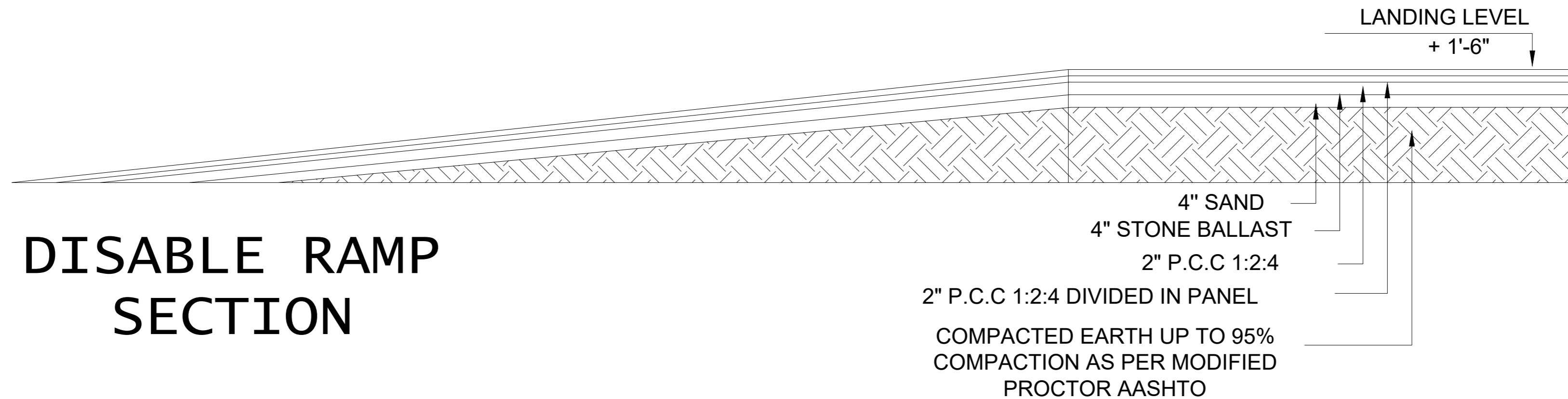
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK STAIRS DETAIL**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: AR.SALMAN
 APPROVED BY: A.S
 DATE: FEB-2024
 DRAWN BY: RANA ALI HAIDER
 JOB NO.
 SCALE: N.T.S
 DRG. NO. AR-13



DISABLED RAMP (1:12)

DISABLED RAMP SECTION



ADDITION & REVISION			
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PROJECT: UPGRADATION AND IMPROVEMENT OF
PEOPLE NURSING SCHOOL, LIAQUAT
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SCIENCE JAMSHORO

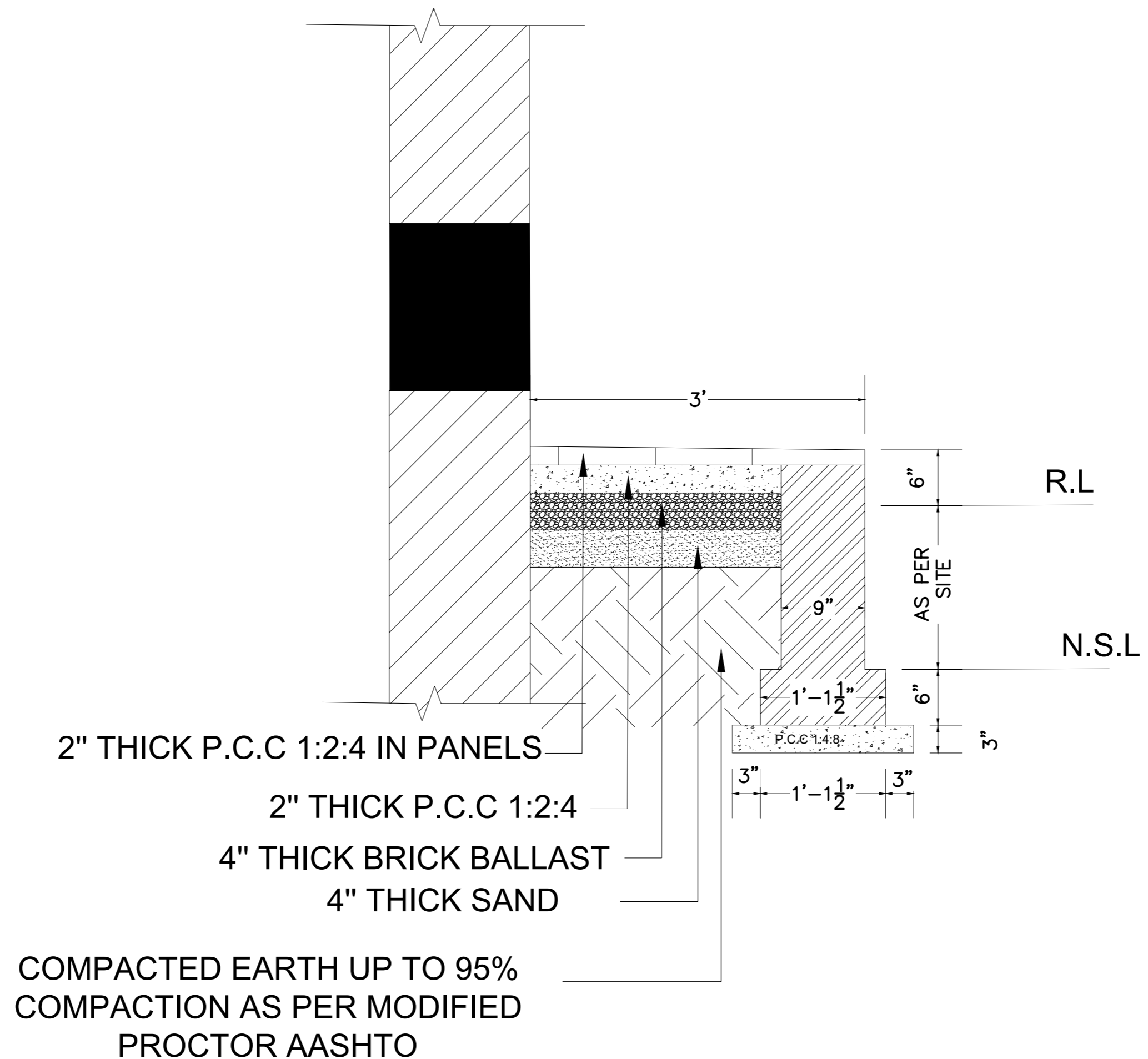
TITLE: LUMHS LIBRARY BLOCK
RAMP DETAIL

CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCE JAMSHORO

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S

DRG. NO. AR-14



PLINTH PROTECTION

ADDITION & REVISION			
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NEW VISION ENGINEERING CONSULTANT

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Ph: +92-42-37250130



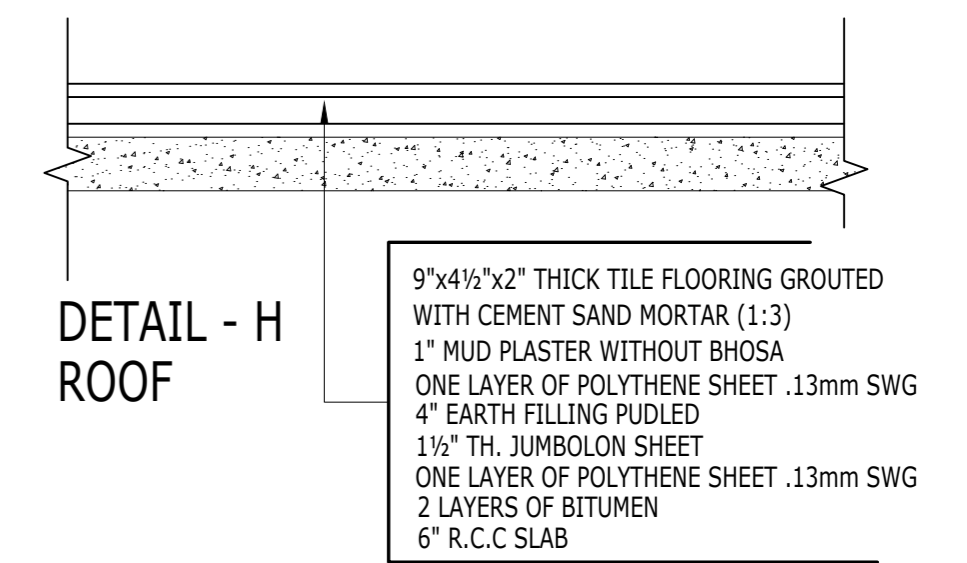
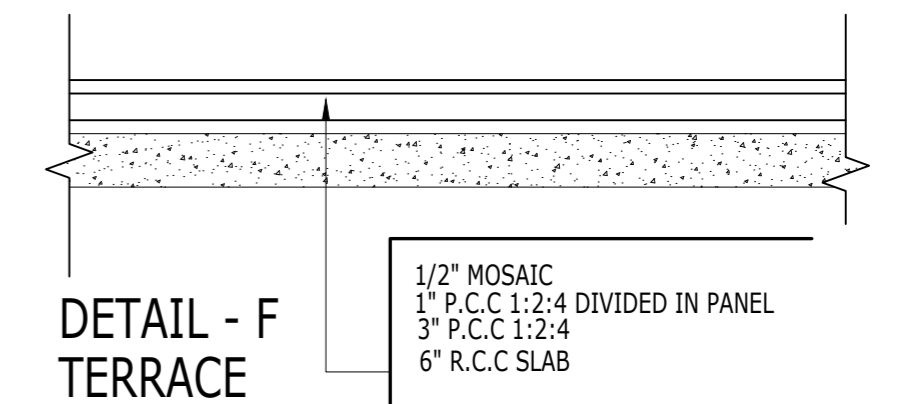
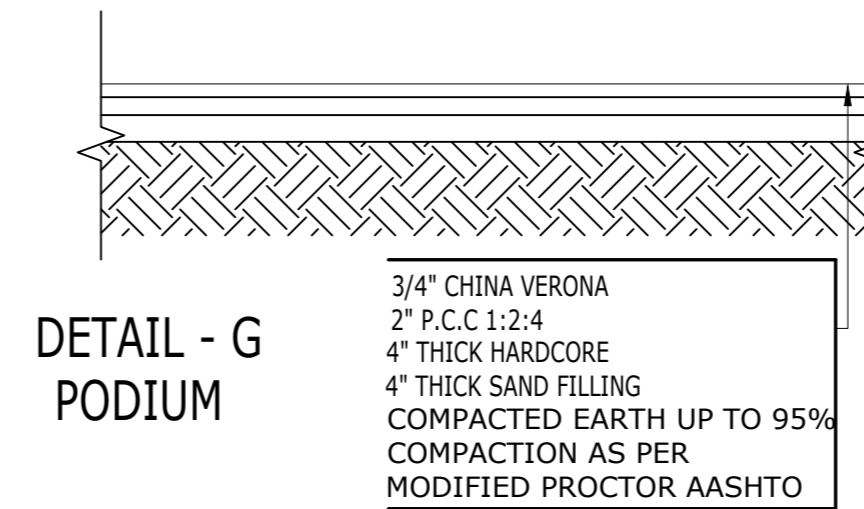
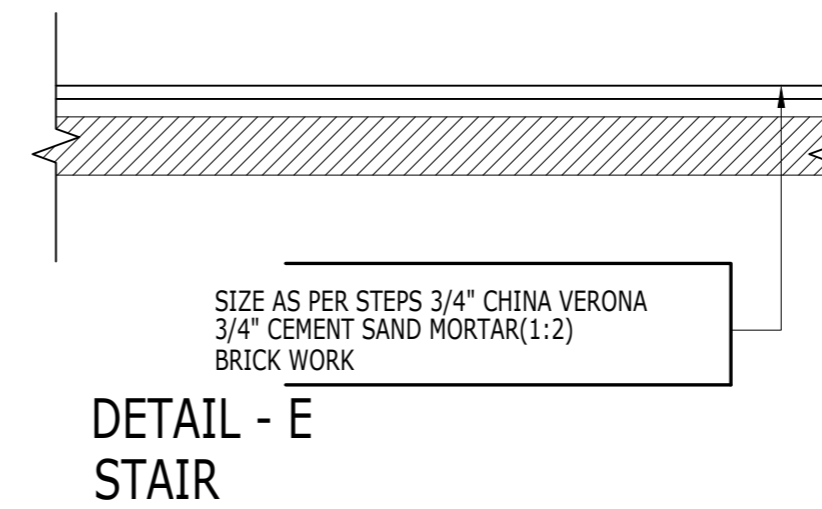
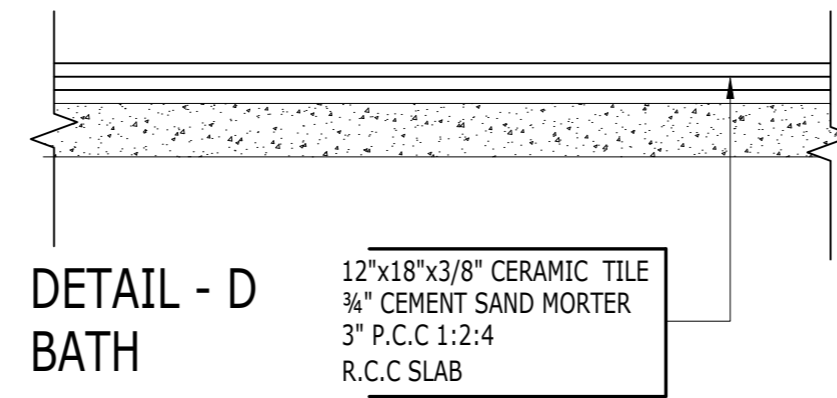
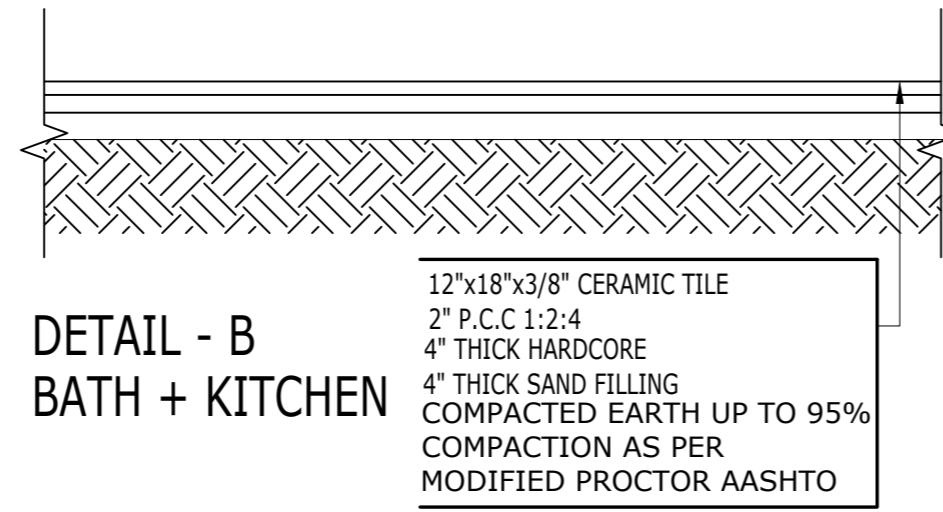
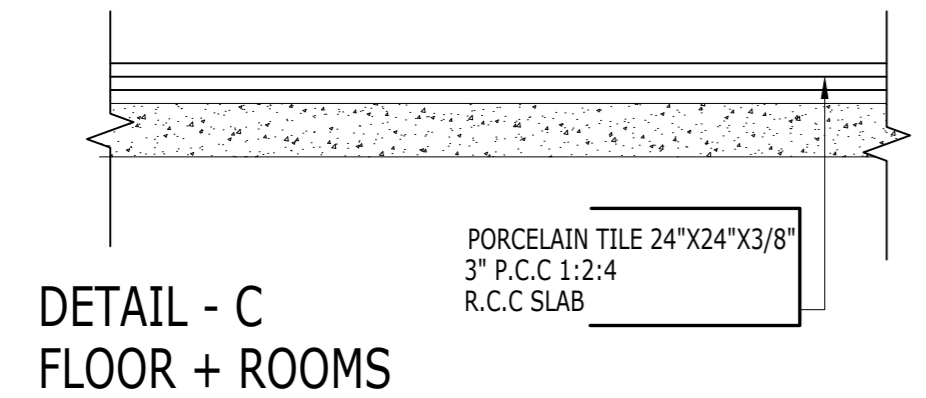
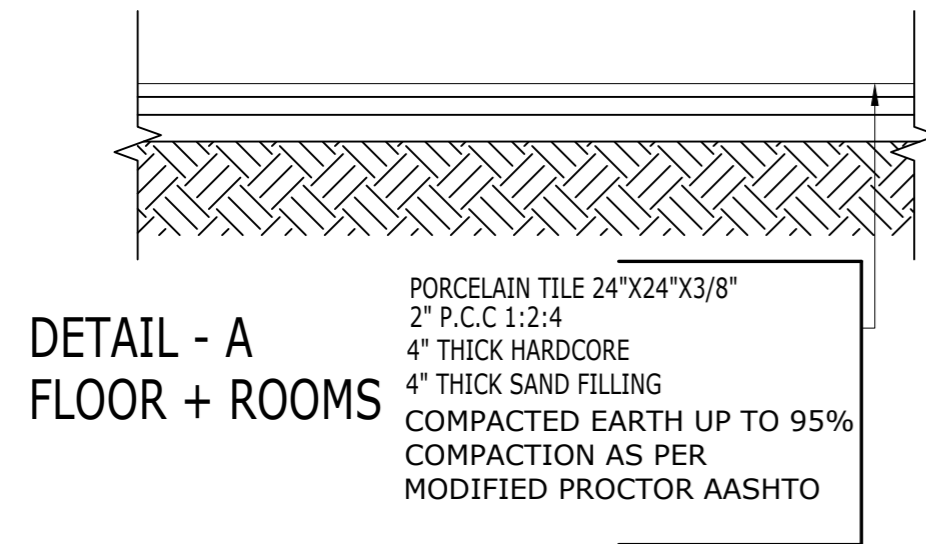
PROJECT: **UPGRADATION AND IMPROVEMENT OF
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UNIVERSITY OF MEDICAL & HEALTH
SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK
PLINTH PROTECTION
DETAIL**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-15	



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

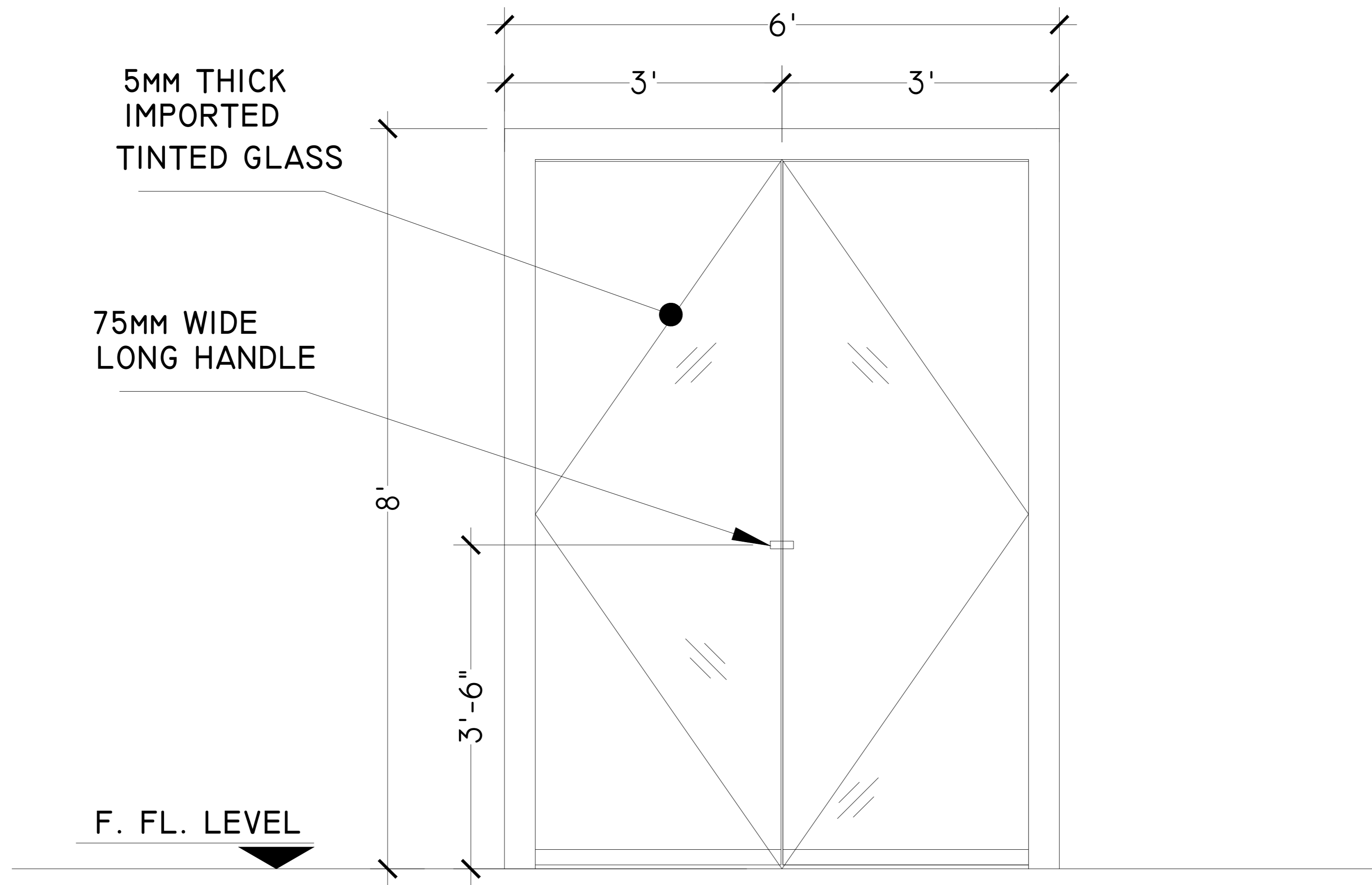


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Head Office: Office No.B-6 Second Floor Masood Arcade
IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS LIBRARY BLOCK FLOOR FINISH DETAIL	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
AR.SALMAN	A.S	FEB-2024
DRAWN BY:	JOB NO.	SCALE:
RANA ALI HAIDER		N.T.S
DRG. NO.	AR-16	



DI-OPENABLE ALUMINUM GLASS DOOR FRONT ELEVATION

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

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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
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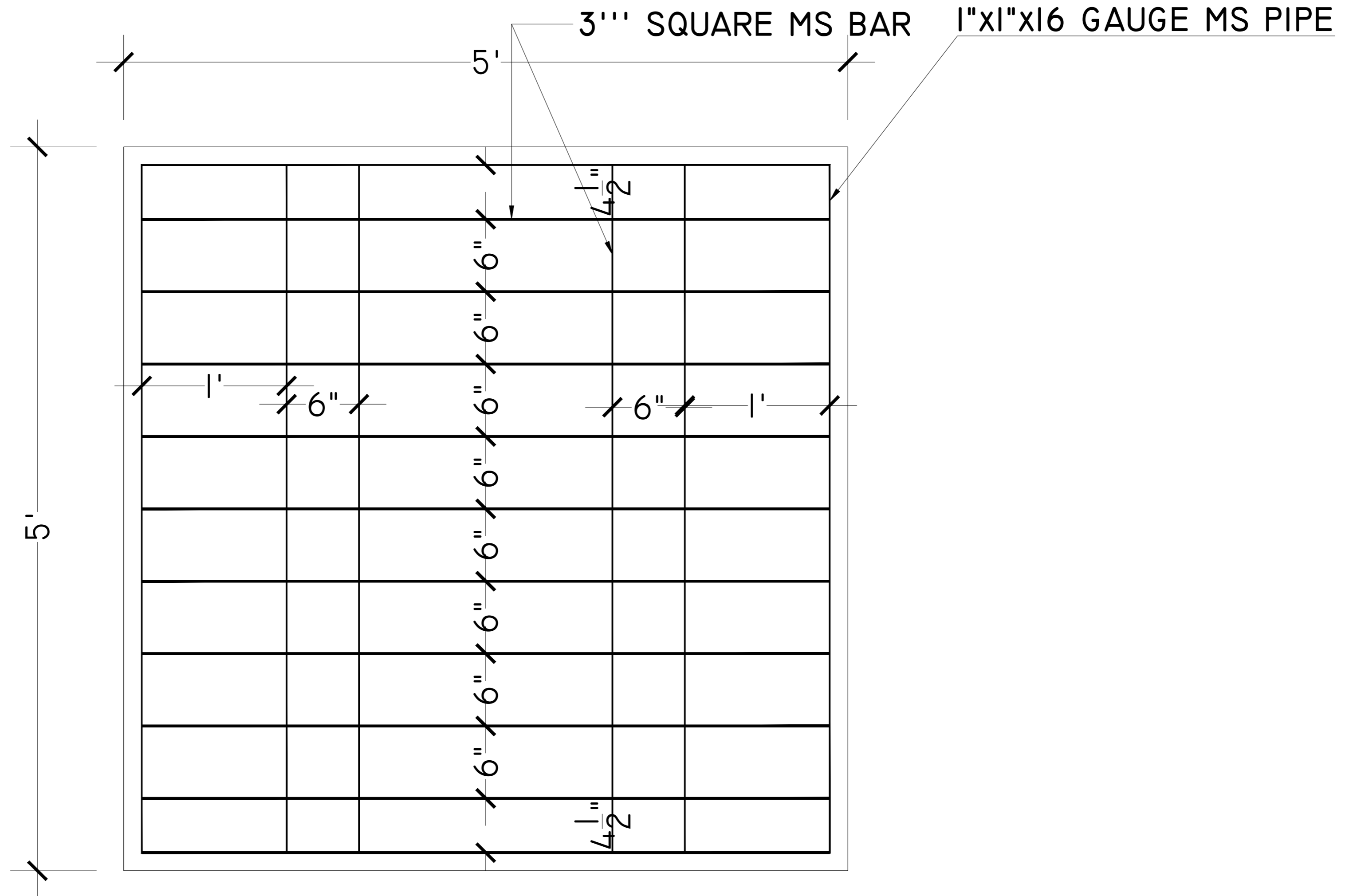
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK
OPENABLE ALUMINUM GLASS DOOR
FRONT ELEVATION**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.		AR-17



TYP. SAFETY GRILL DETAIL

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



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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: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK TYPICAL SAFETY GRILL DETAIL**

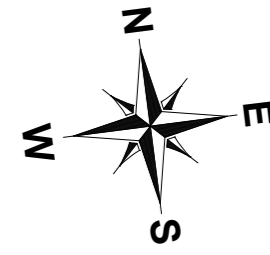
CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB-2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S

DRG. NO. AR-18

STRUCTURE



LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
STRUCTURE DRAWINGS		
1	LIST OF DRAWINGS	ST-01
2	GENERAL NOTES	ST-02
3	TYPICAL DETAILS	ST-03
4	TYPICAL DETAILS	ST-04
5	TYPICAL DETAILS	ST-05
6	FOUNDATION LAYOUT PLAN	ST-06
7	FOUNDATION SCHEDULE	ST-07
8	FOUNDATION SECTION DETAIL	ST-08
9	FOUNDATION SECTION DETAIL	ST-09
10	BRICK FOOTING FOUNDATION LAYOUT	ST-10
11	BRICK FOOTING SECTION	ST-11
12	GROUND FLOOR COLUMN LAYOUT PLAN	ST-12
13	COLUMN SECTION	ST-13
14	PLINTH BEAM LAYOUT PLAN	ST-14
15	PLINTH BEAM SECTION	ST-15
16	GROUND FLOOR BEAM LAYOUT PLAN	ST-16
17	GROUND FLOOR BEAM SECTION	ST-17
18	FIRST FLOOR BEAM LAYOUT PLAN	ST-18
19	FIRST FLOOR BEAM SECTION	ST-19
20	ROOF FLOOR LAYOUT PLAN	ST-20
21	GROUND FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-21
22	GROUND FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-22
23	FIRST FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-23
24	FIRST FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-24
25	STAIR DETAIL	ST-25
26	O.H.W.T DETAIL	ST-26
27	SEPTIC TANK	ST-27
28	EMERGENCY STEEL STAIR PLAN & DETAIL	ST-28
29	EMERGENCY STEEL STAIR SECTION DETAIL	ST-29
30	EMERGENCY STEEL STAIR MISC DETAIL	ST-30
31	EMERGENCY STAIR RAILING DETAIL	ST-31

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK LIST OF DRAWING**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-01	

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:-
 - (a) 1" Ø = 60"
 - (b) 3/4" Ø = 45"
 - (c) 5/8" Ø = 36"
 - (d) 1/2" Ø = 30"
 - (e) 3/8" Ø = 23"
- Provide 3/8" dia at 12" c/c as distribution steel if not shown in drawings.
- Minimum concrete cover.
 - a) Footing = 2" e) Water tank and retaining wall
 - b) Slabs = 3/4" i- Water/earth face or
 - c) Beams = 1 1/2" exposed to weather = 2"
 - d) 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

1. 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

Admixture must be provided to ensure the specified structural strength as mentioned earlier.

3. BEAMS, RIBS & SLABS.

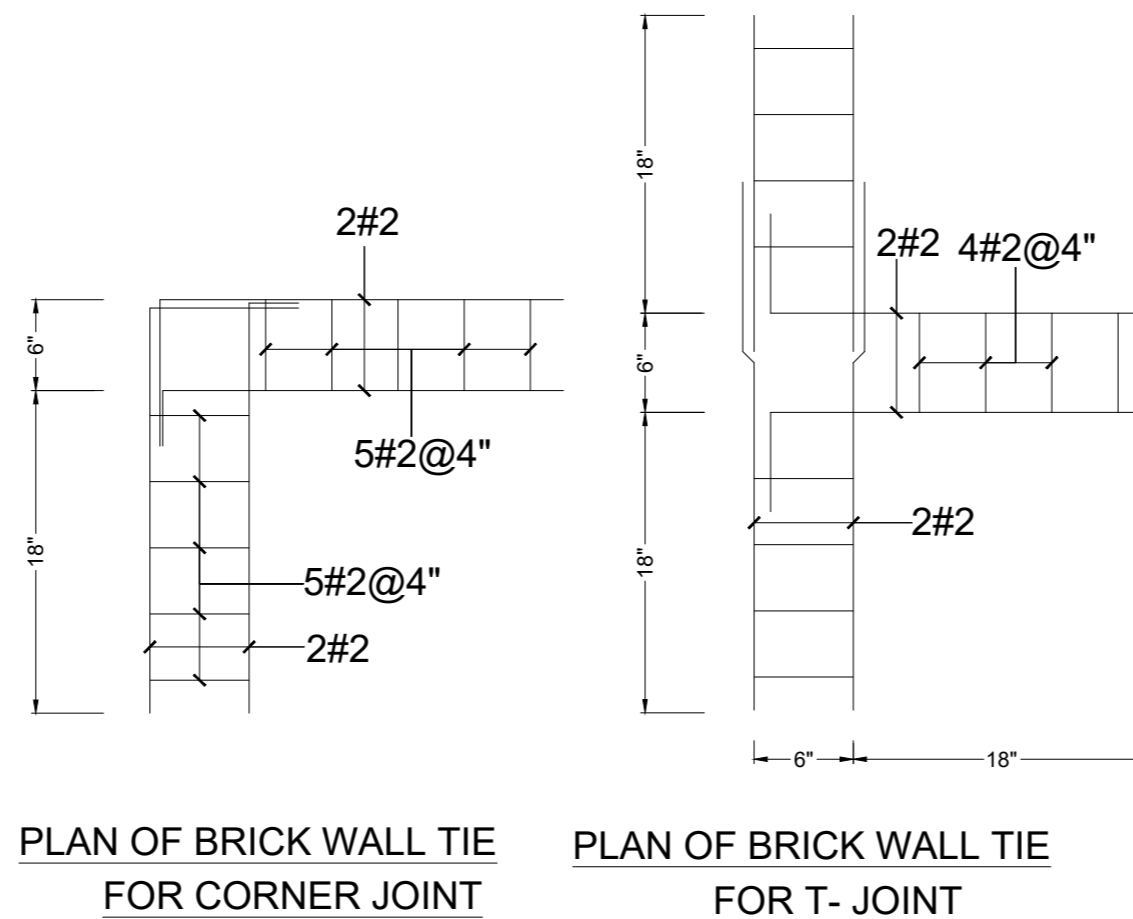
Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix to be 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

Admixture must be provided to ensure the specified structural strength as mentioned earlier.

- 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 & coarse) as used during the mix design, should be strictly adhered with.
- The Design is in accordance with Seismic Zone 2A.

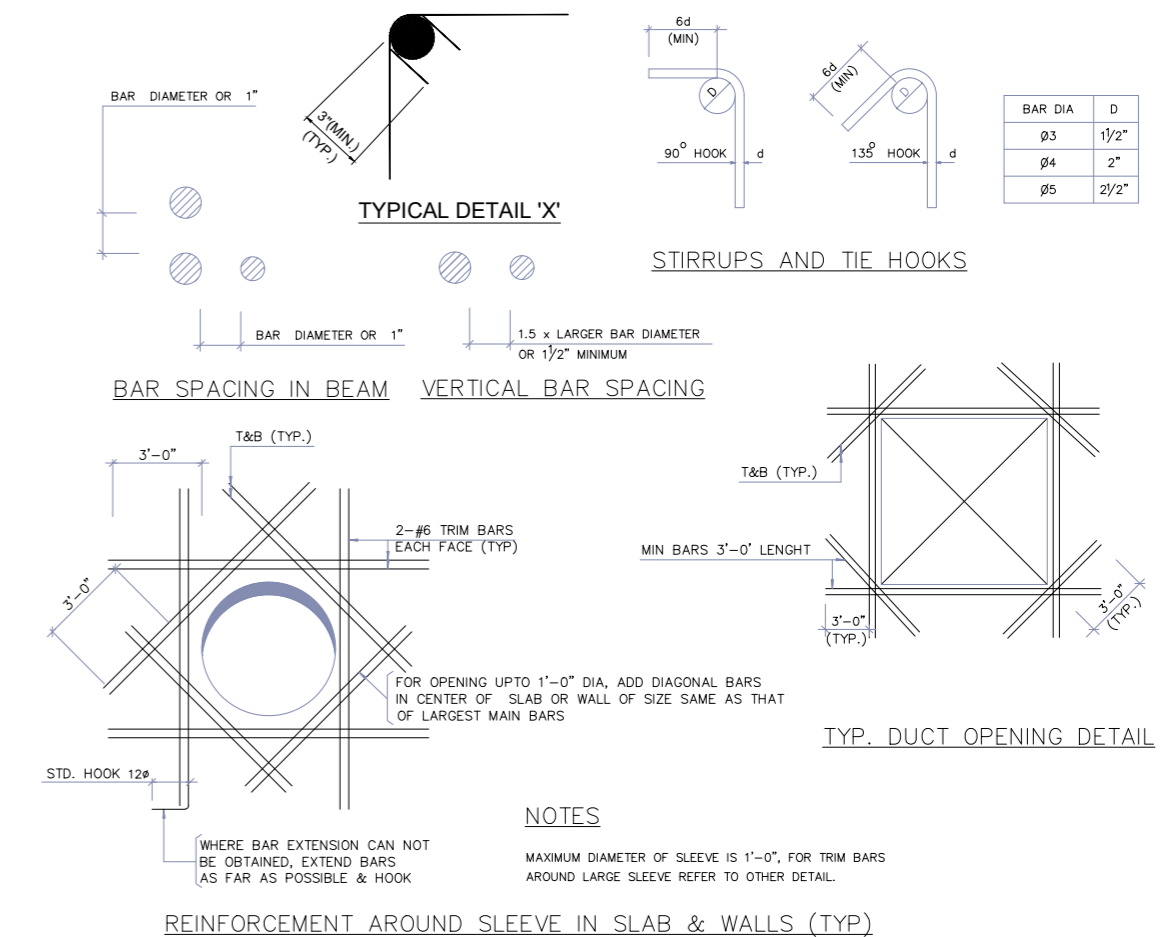
NOTES

- 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.



REINFORCING STEEL

REINFORCING STEEL f = 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	33"	29"
#7	0.875	48"	42"
#8	1.000	55"	48"
#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	22"	19"
#3	0.375	32"	29"
#4	0.500	39"	35"
#5	0.625	37"	32"
#6	0.750	43"	38"
#7	0.875	63"	55"
#8	1.000	72"	63"



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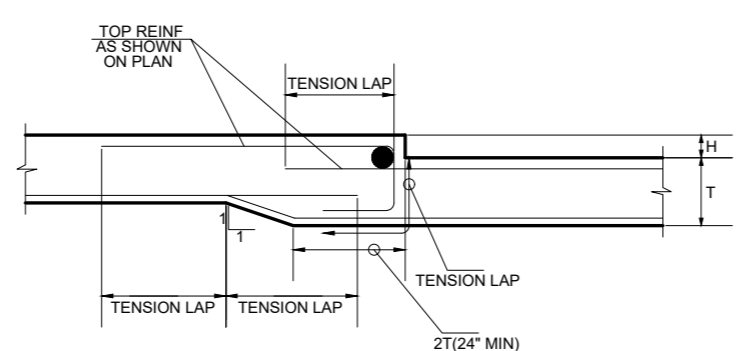
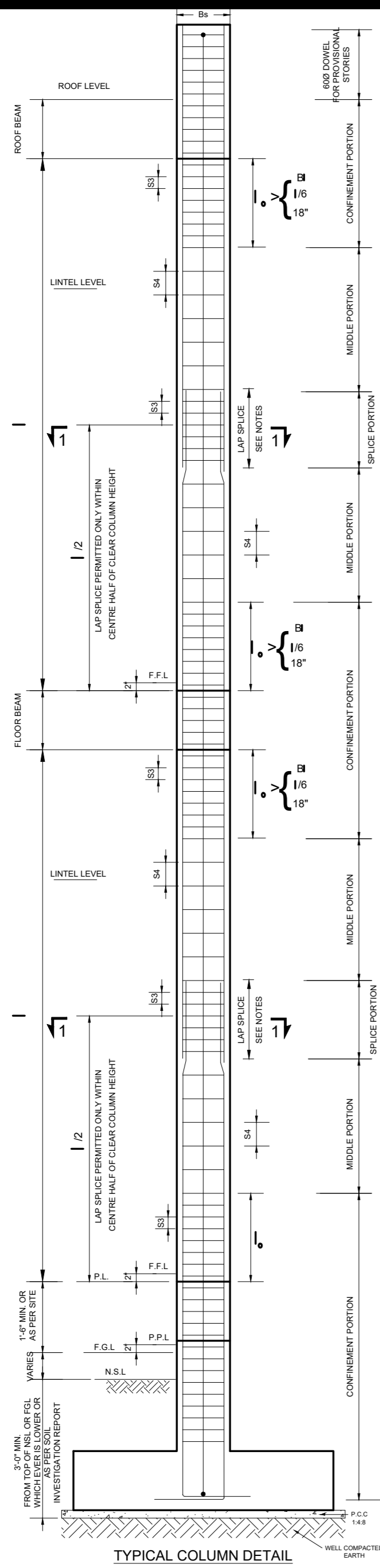
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



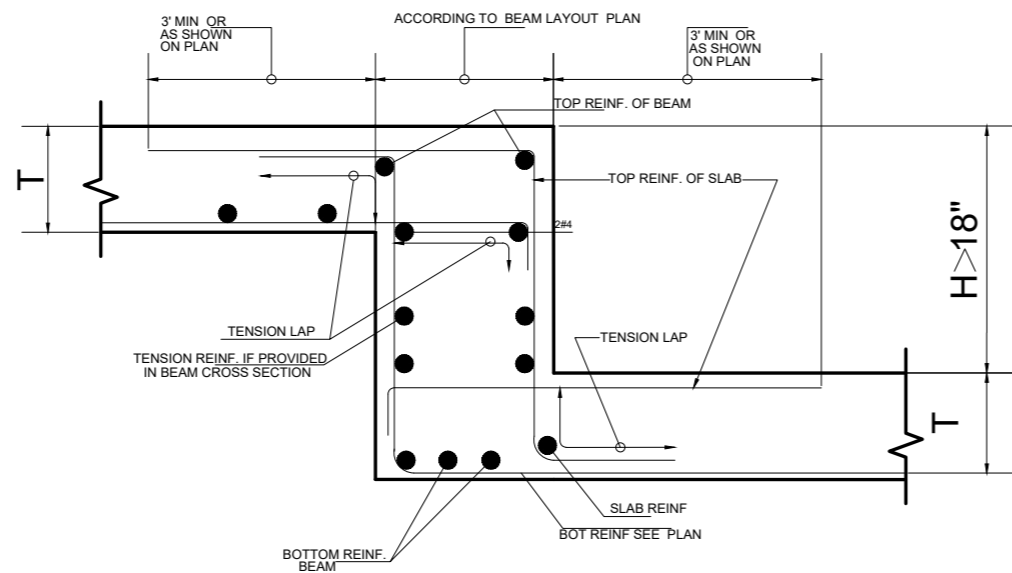
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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK GENERAL NOTES**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
DESIGNED BY: ENZAIN ARSHAD
APPROVED BY: [Signature]
DATE: FEB, 2024
DRAWN BY: MATHEW SIMON
JOB NO. [Blank]
SCALE: N.T.S
DRG. NO. ST-02



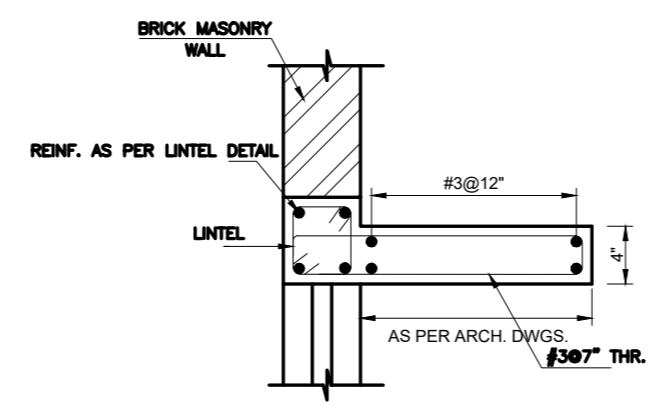
SLAB STEP $H \leq 4''$
REINFORCEMENT DETAIL OF BEAM CONNECTING WITH TWO SLABS AT DIFFERENT ELEVATIONS



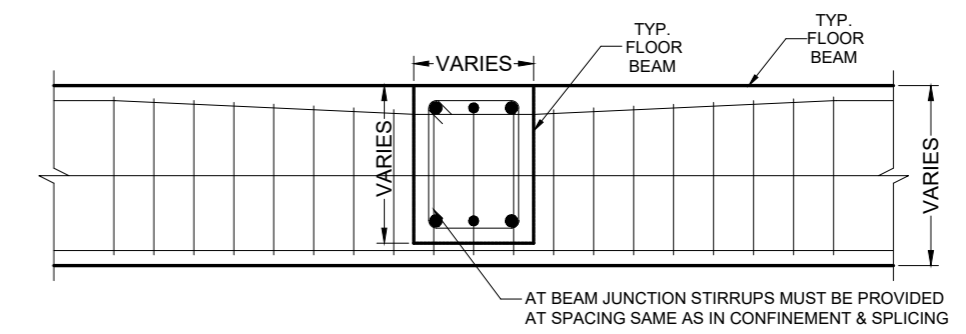
SLAB STEP $H > 18''$
REINFORCEMENT DETAIL OF BEAM CONNECTING WITH TWO SLABS AT DIFFERENT ELEVATIONS

LEGENDS

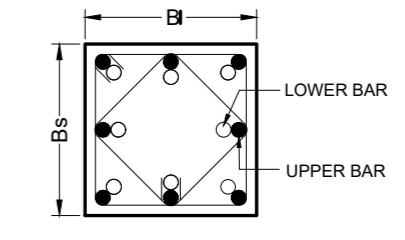
S1	STIRRUPS SPACING IN BEAM NEAR SUPPORTS & LAP SPLICES
S2	STIRRUPS SPACING IN BEAM IN MIDSPAN
S3	CROSSTIE SPACING IN COLUMNS IN CONFINEMENT & LAP SPLICE
S4	CROSSTIE SPACING IN COLUMNS IN MIDDLE PORTION.
h	DEPTH OF BEAM
db	DIAMETER OF BAR
Bs	LEAST LATERAL DIMENSION OF COLUMN
B	LARGEST LATERAL DIMENSION OF COLUMN
l	CLEAR HEIGHT OF COLUMN
lo	LENGTH OF CONFINEMENT PORTION
ld	DEVELOPMENT LENGTH FOR STEEL BAR
d	EFFECTIVE DEPTH OF BEAM



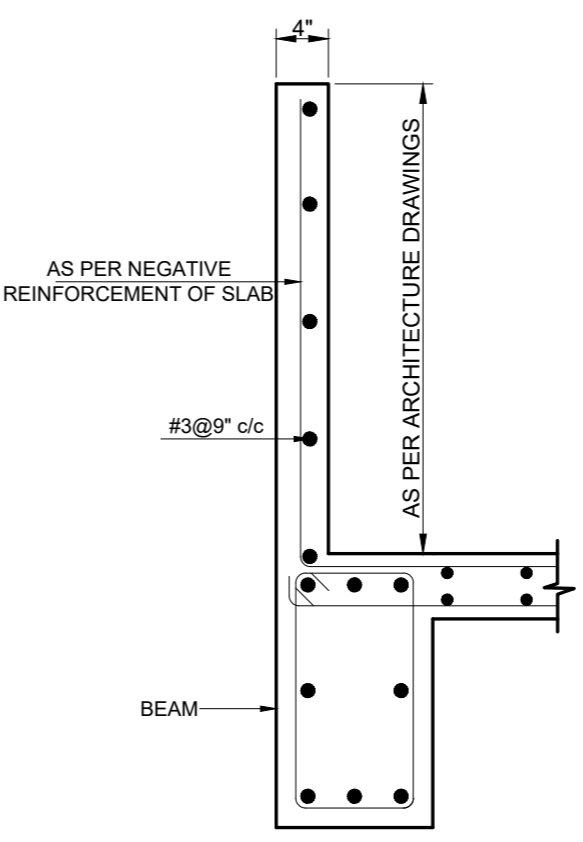
TYP. SECTION OF WINDOW SHADE
FOR LEVEL DETAILS REFER ARCHITECTURAL DRAWINGS



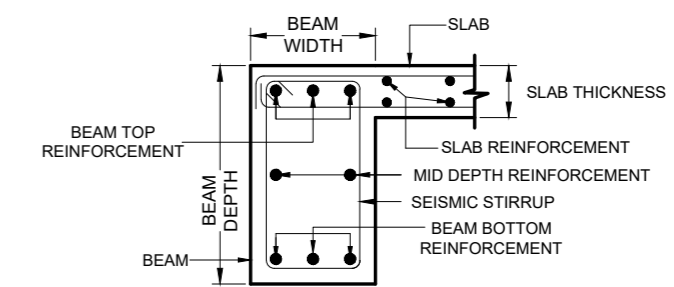
TYP. BEAM-BEAM JOINT DETAIL



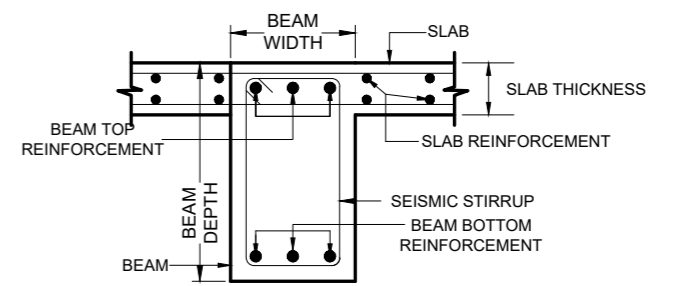
SECTION 1-1



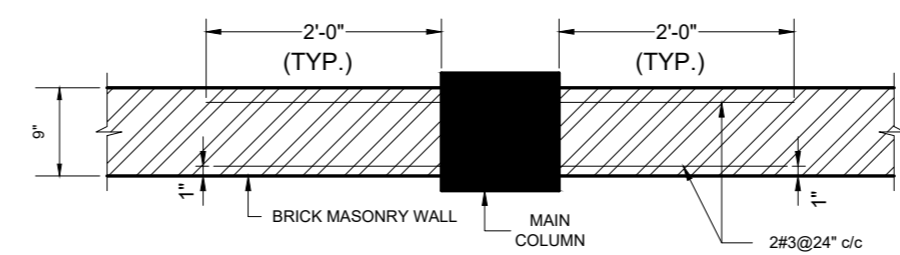
TYP. SECTION OF PARAPET WALL



TYP. SECTION OF EXTERNAL BEAM (L-SHAPED)



TYP. SECTION OF INTERNAL BEAM (T-SHAPED)



TYP. WALL & MAIN COLUMN JOINT DETAIL SECTION 2-2

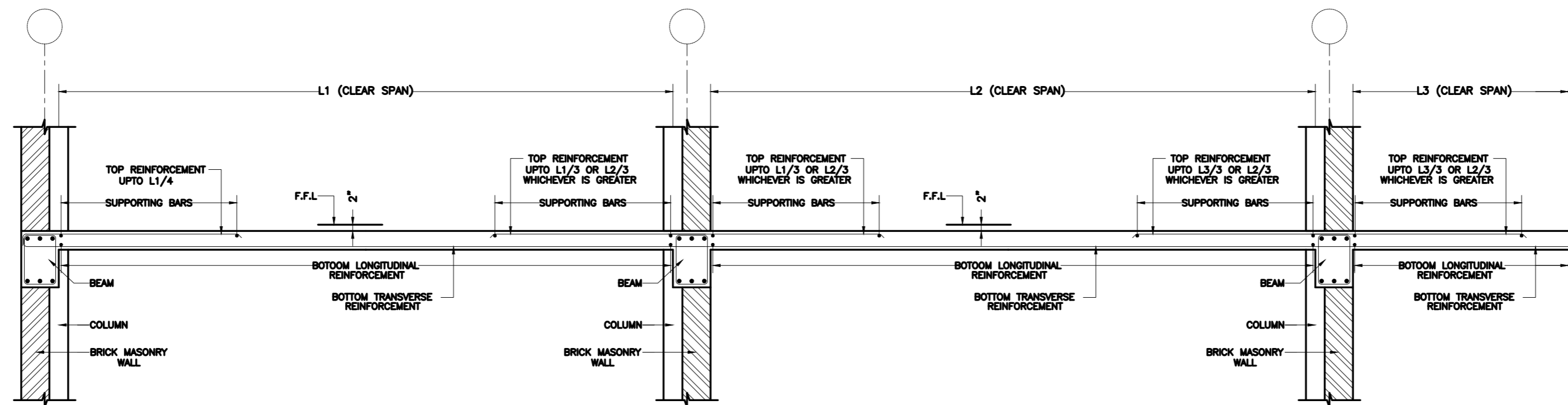
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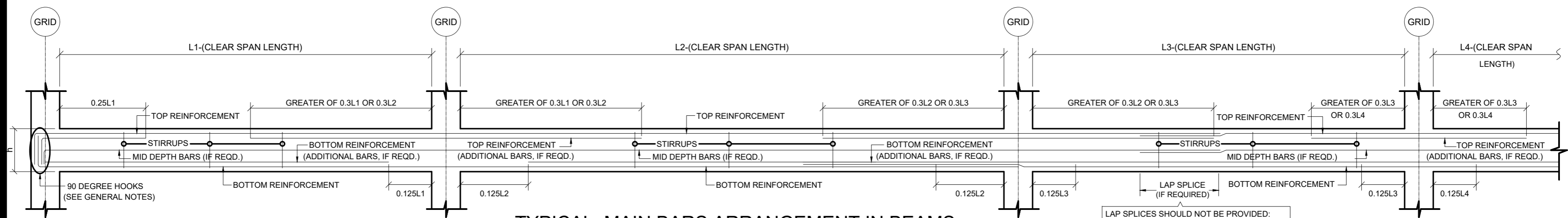
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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **TYPICAL DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
DESIGNED BY: **ENG. ZAIN ARSHAD**
APPROVED BY:
DATE: **FEB, 2024**
DRAWN BY: **MATHEW SIMON**
JOB NO.:
SCALE: **N.T.S**
DRG. NO.: **ST-03**

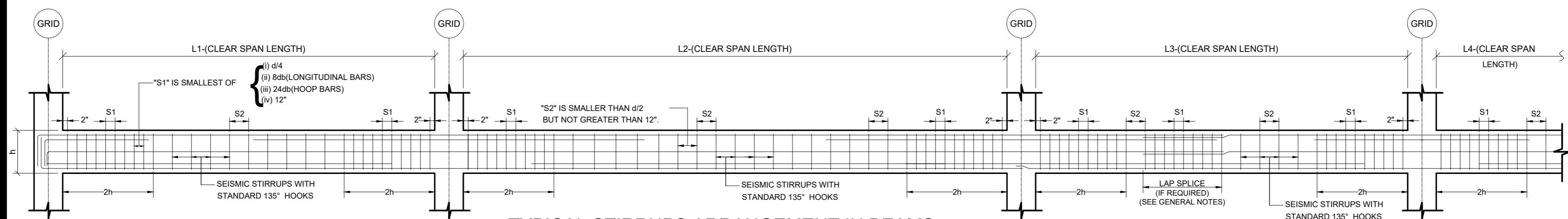


TYPICAL SECTION OF SLAB
REINFORCEMENT CURTAILMENT DETAIL



TYPICAL MAIN BARS ARRANGEMENT IN BEAMS

- LAP SPLICES SHOULD NOT BE PROVIDED:
- (1) WITHIN JOINTS.
 - (2) WITHIN A DISTANCE OF TWICE THE MEMBER DEPTH.
 - (3) AT CENTRE OF CLEAR SPAN OF BEAM.



TYPICAL STIRRUPS ARRANGEMENT IN BEAMS

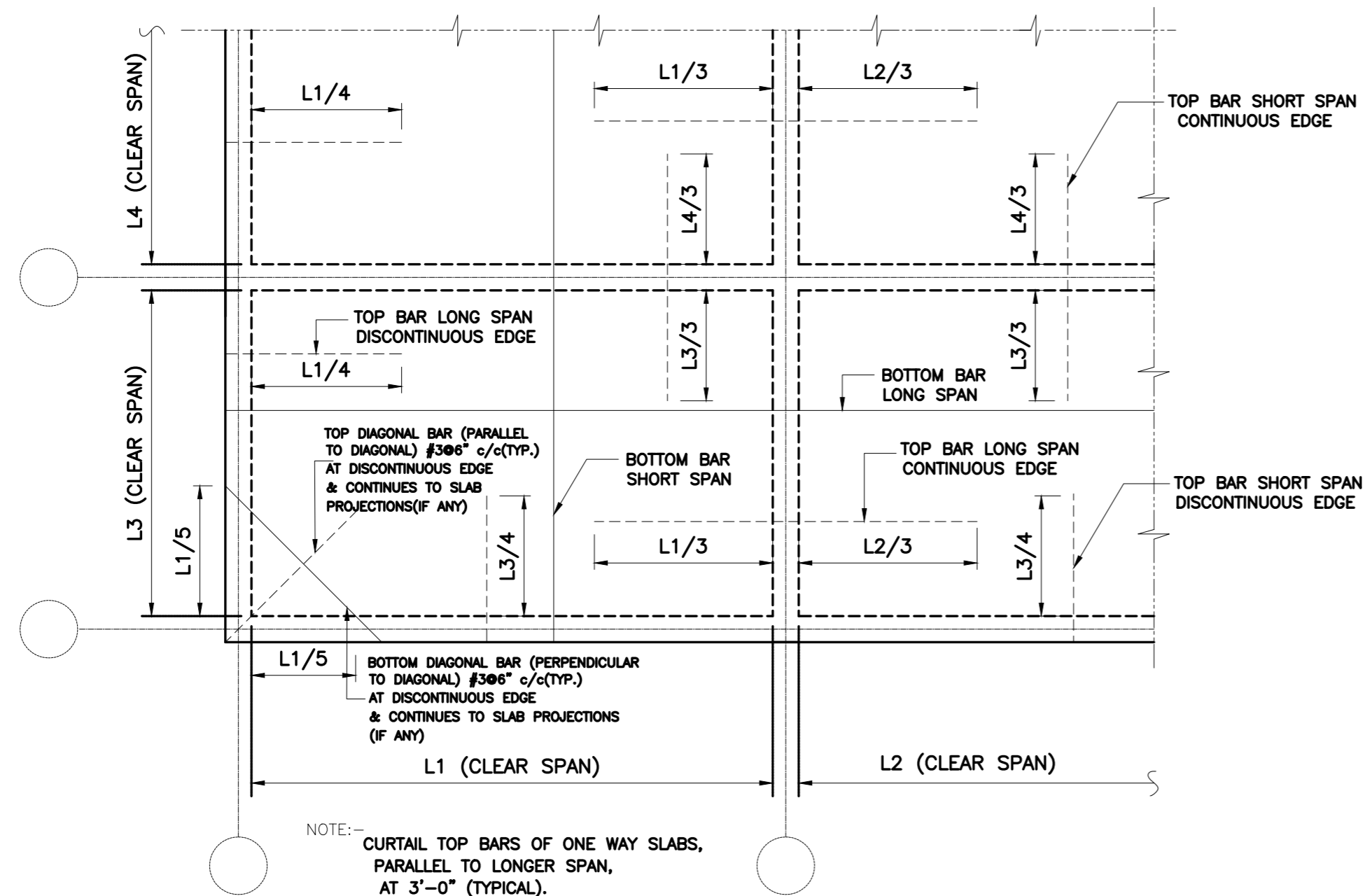
ADDITION & REVISION				
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 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **TYPICAL DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENG. ZAIN ARSHAD
 APPROVED BY:
 DATE: FEB, 2024
 DRAWN BY: MATHEW SIMON
 JOB NO.:
 SCALE: N.T.S
 DRG. NO.: ST-04



TYP. TWO WAY SLAB REINFORCEMENT CURTAILMENT DETAIL
SCALE: NTS

SCHEDULE OF LINTELS		
S/No	CLEAR SPAN	CONFIGURATION
1	UPTO 4'-0"	
2	UPTO 6'-6"	
3	UPTO 8'-0"	
5	UPTO 12'-0"	
6	UPTO 20'-0"	

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



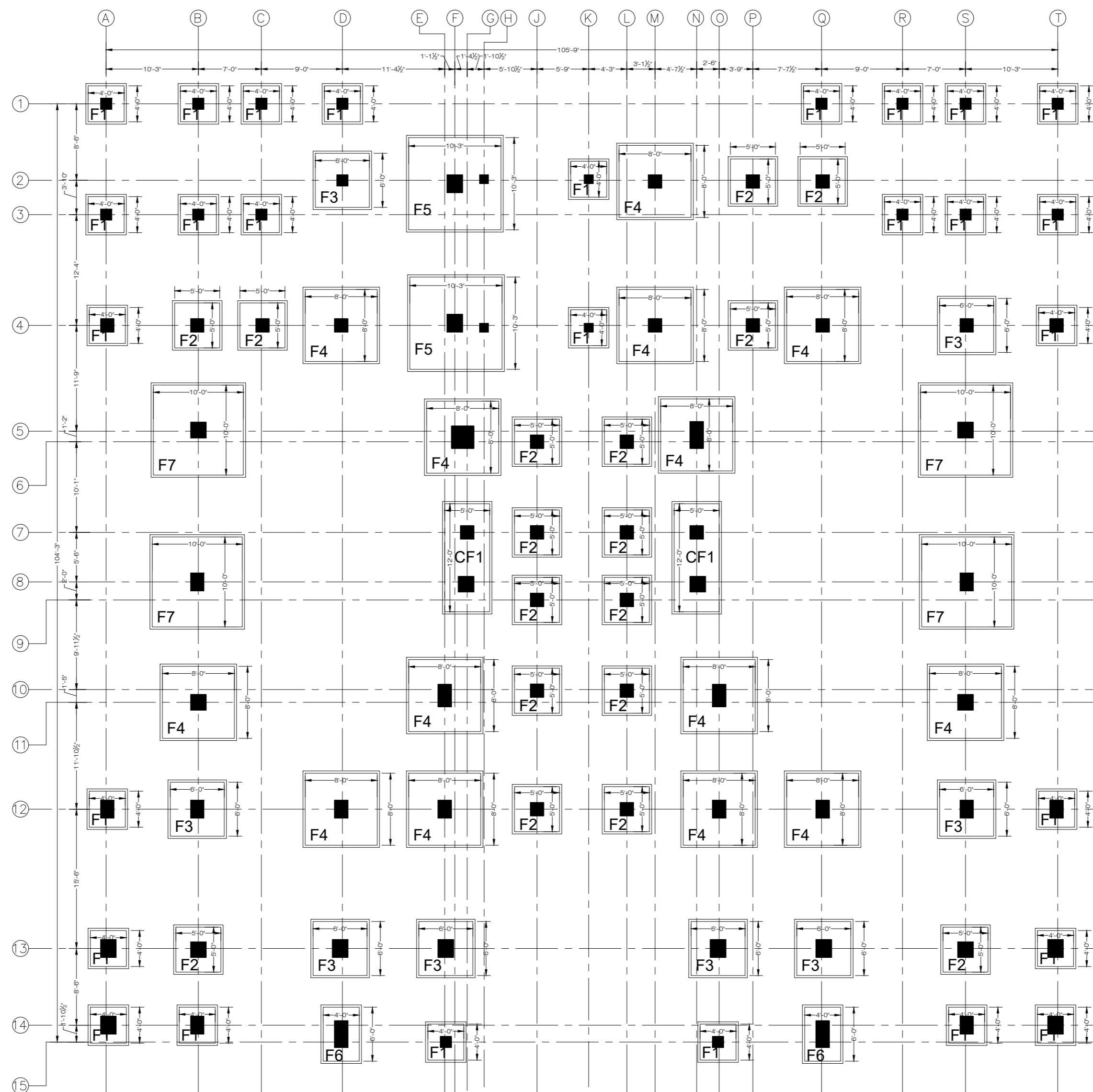
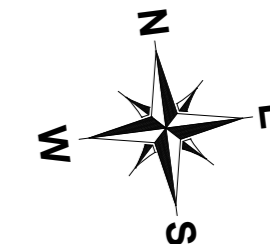
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PROJECT:
UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

TITLE:
TYPICAL DETAIL

CLIENT:
LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

DESIGNED BY: ENG. ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.	ST-05	



FOUNDATON LAYOUT PLAN

FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

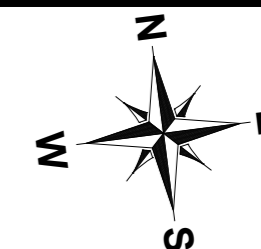
TITLE: **LUMHS LIBRARY BLOCK FOUNDATION LAYOUT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD APPROVED BY: DATE: FEB,2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

DRG. NO. ST-06



SCHEDULE OF FOOTINGS

MARK	SIZE			REINFORCEMENT DETAIL				REMARKS
	L	W	H	BOTTOM BARS		TOP BARS		
				BS	BL	TS	TL	
F1	4'-0"	4'-0"	12"	#4@8" c/c	#4@8" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F2	5'-0"	5'-0"	12"	#4@5" c/c	#4@5" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F3	6'-0"	6'-0"	12"	#5@5.5" c/c	#5@6" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F4	8'-0"	8'-0"	15"	#4@5" c/c	#4@5" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F5	10'-3"	10'-3"	18"	#5@5" c/c	#5@5" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F6	4'-0"	6'-0"	12"	#5@5" c/c	#5@5" c/c	#5@7" c/c	#5@8" c/c	ISOLATED FOOTING
F7	10'-0"	10'-0"	18"	#4@5" c/c	#4@5" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
CF1	SIZE AS PER PLAN		18"	#4@5" c/c	#4@5" c/c	#3@6" c/c	#3@6" c/c	COMBINED FOOTING

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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

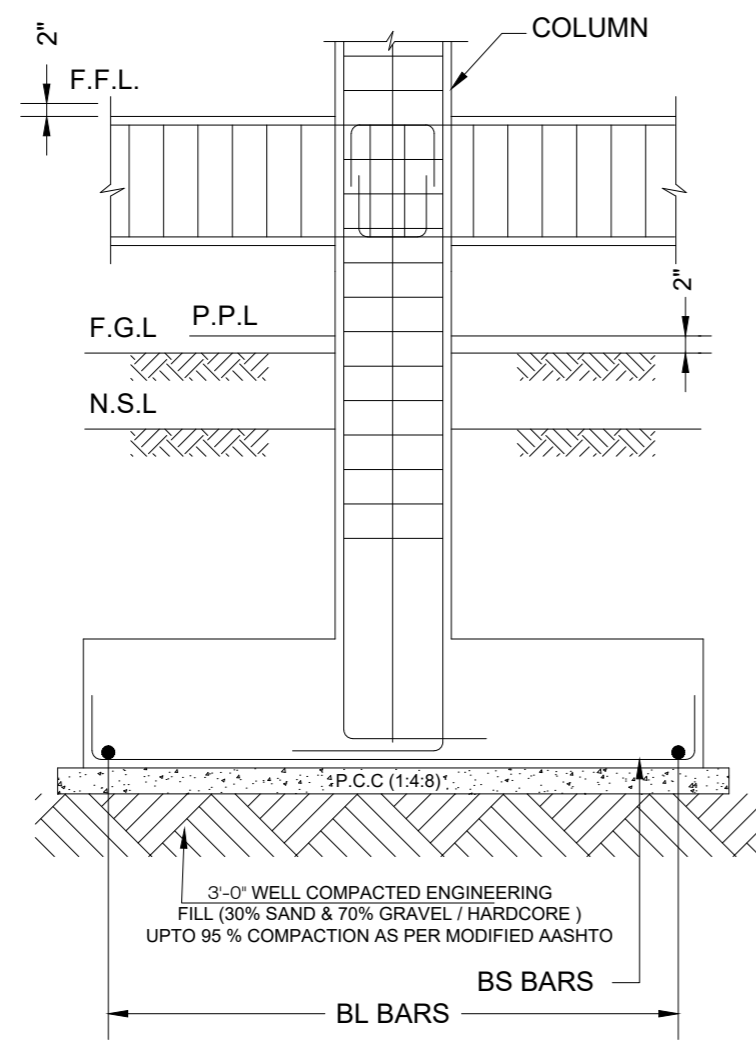
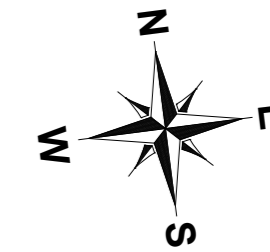


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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

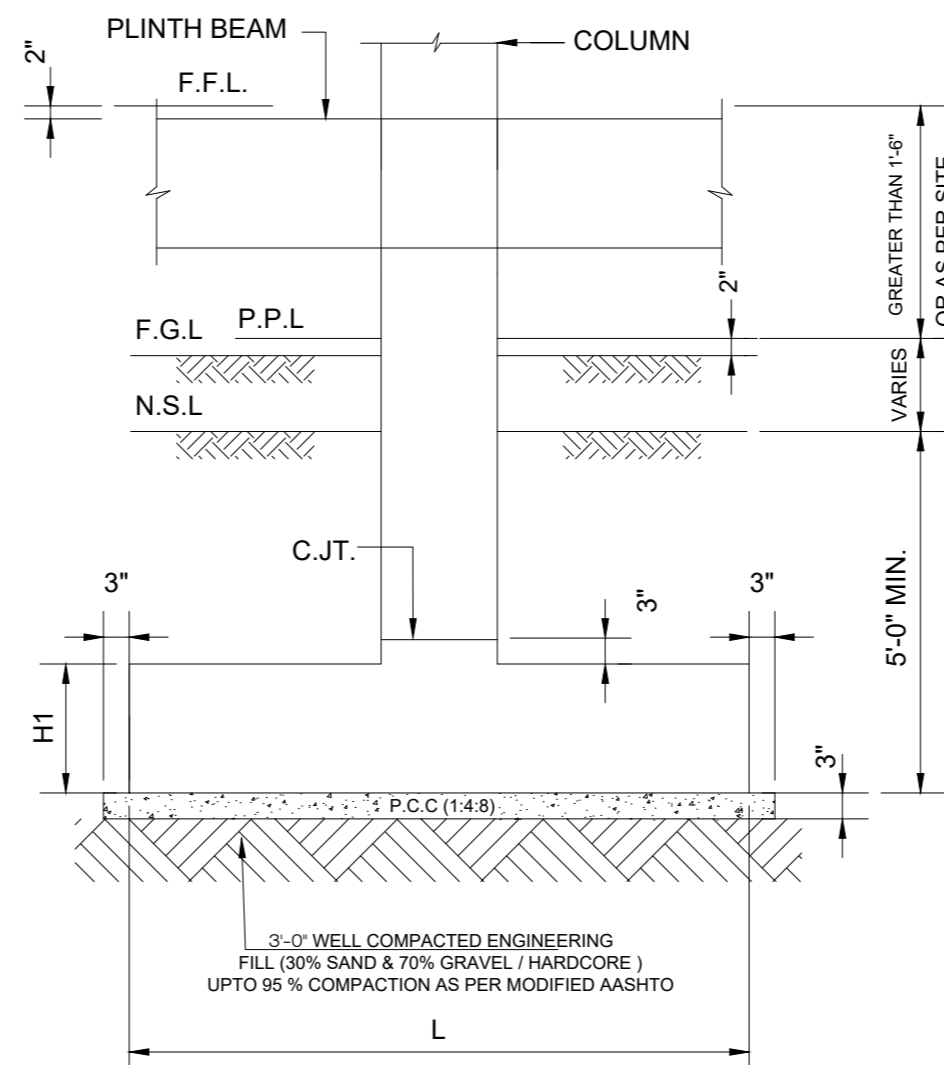
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FOUNDATION SCHEDULE**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

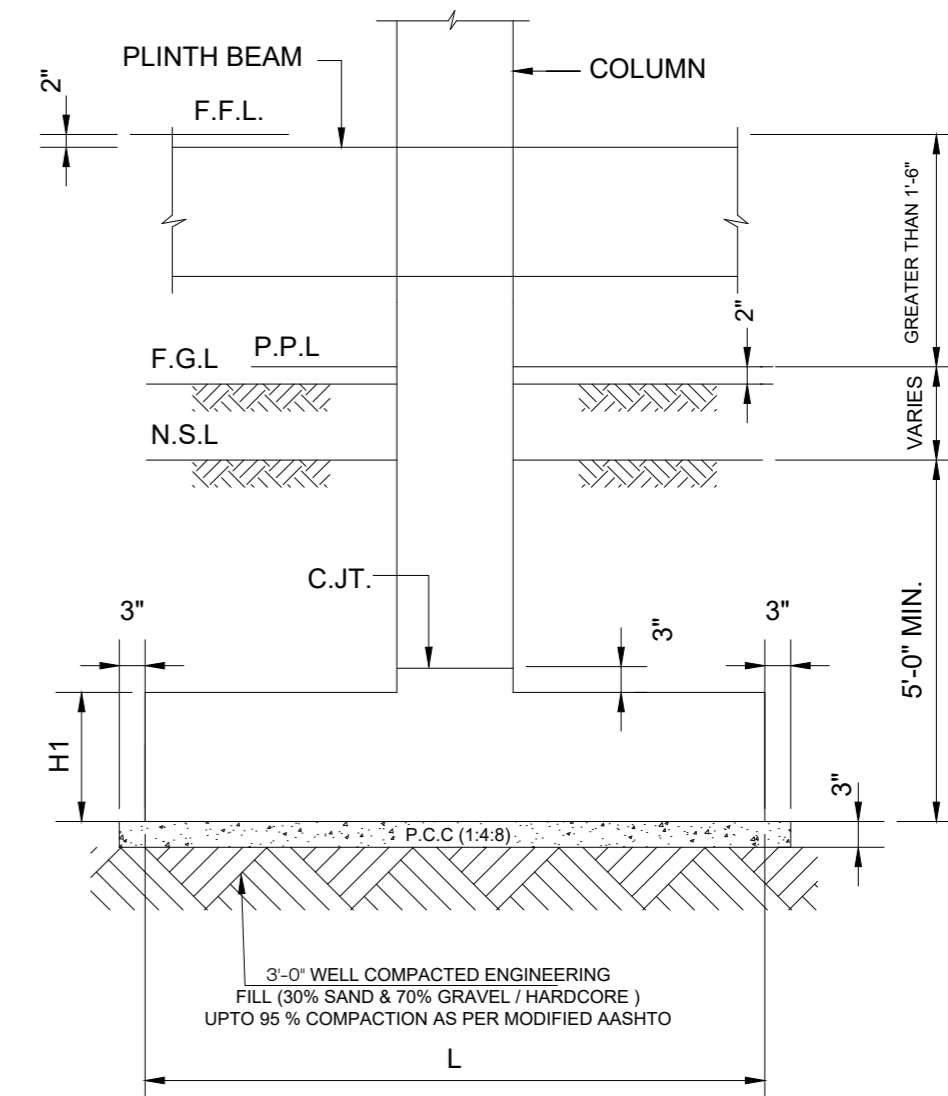
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-07	



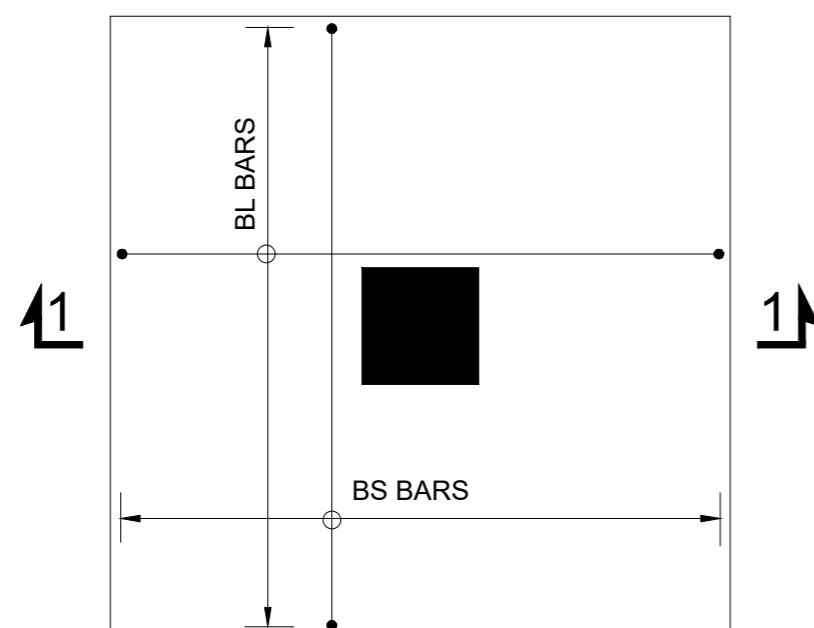
SECTION 1-1
REINFORCEMENT DETAILS



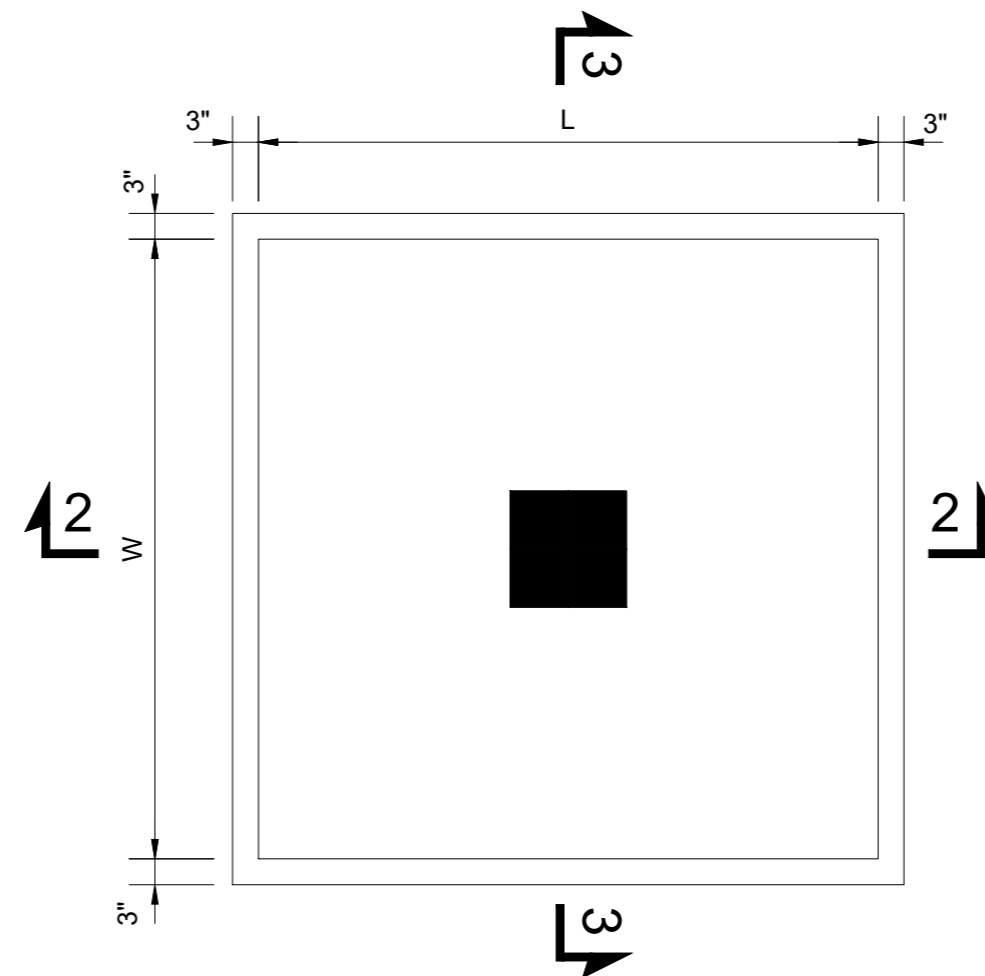
SECTION 2-2
CONCRETE OUTLINE



SECTION 3-3
CONCRETE OUTLINE



ISOLATED FOOTING (TYP.)
REINFORCEMENT DETAILS



ISOLATED FOOTING (TYP.)
CONCRETE OUTLINE

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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

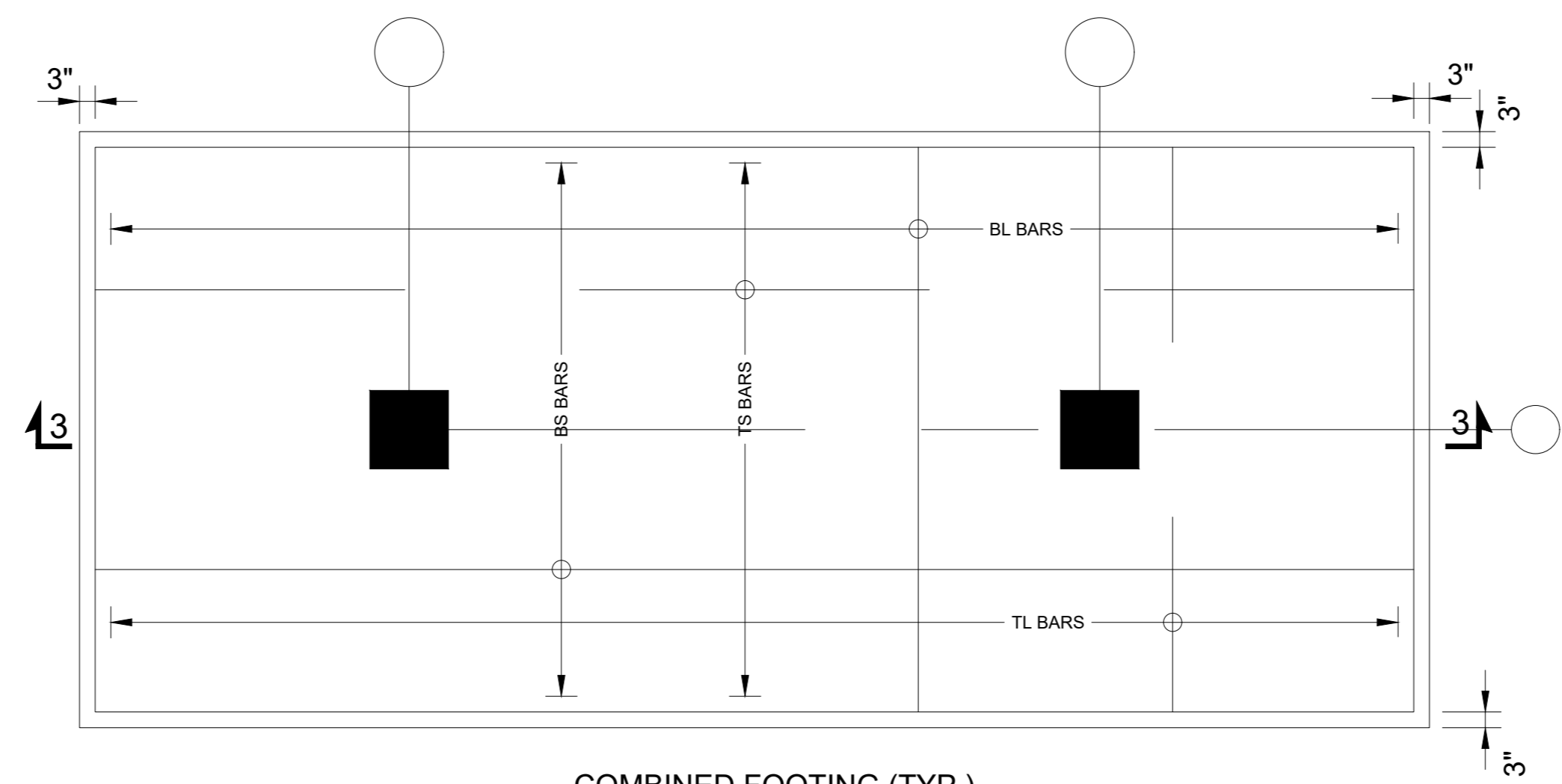
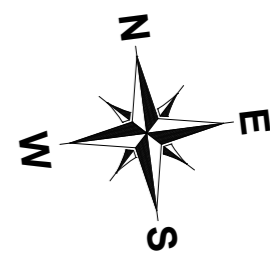


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Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
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Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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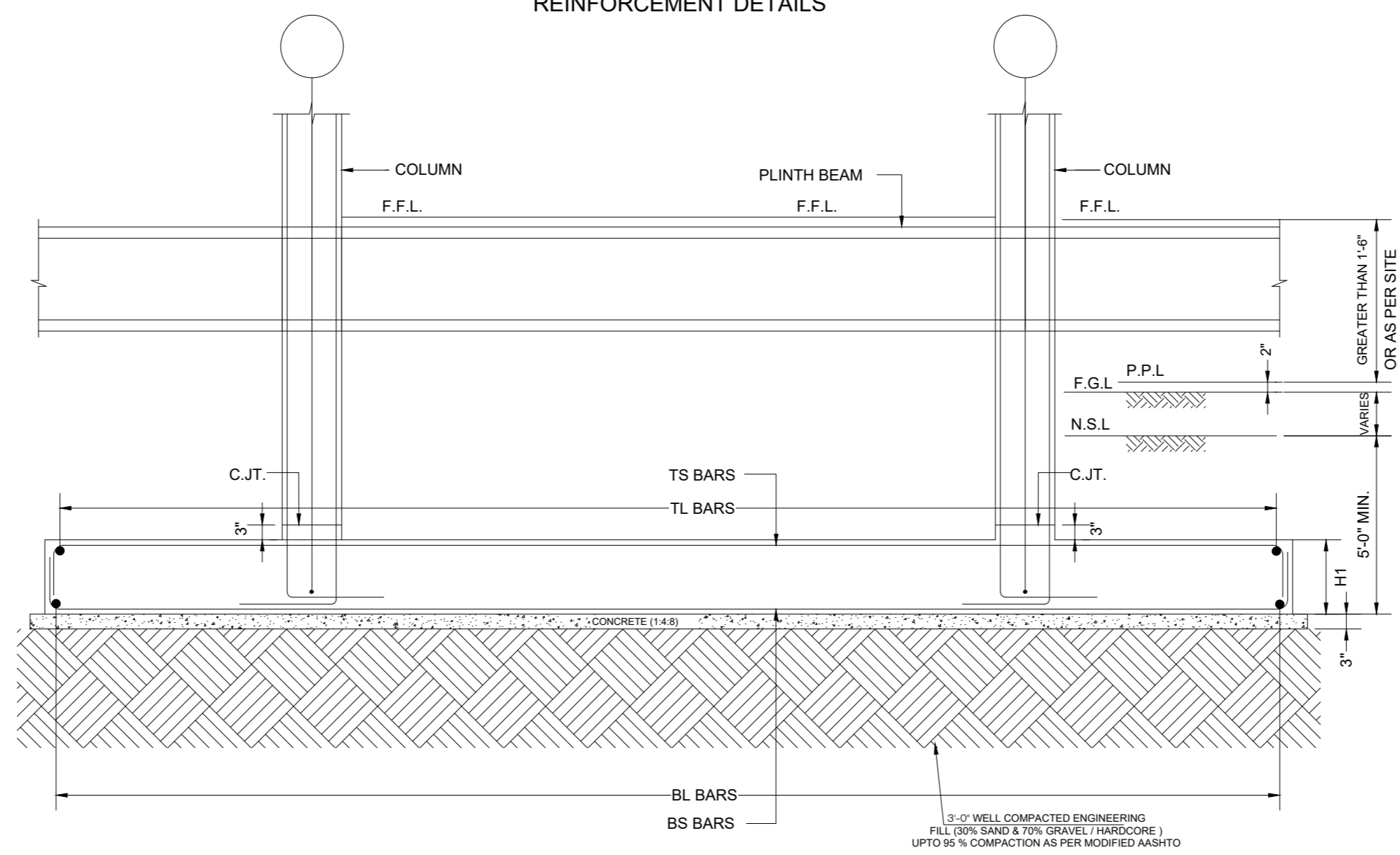
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK FOUNDATION SECTION**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-08	



COMBINED FOOTING (TYP.)
REINFORCEMENT DETAILS



SECTION 3-3

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

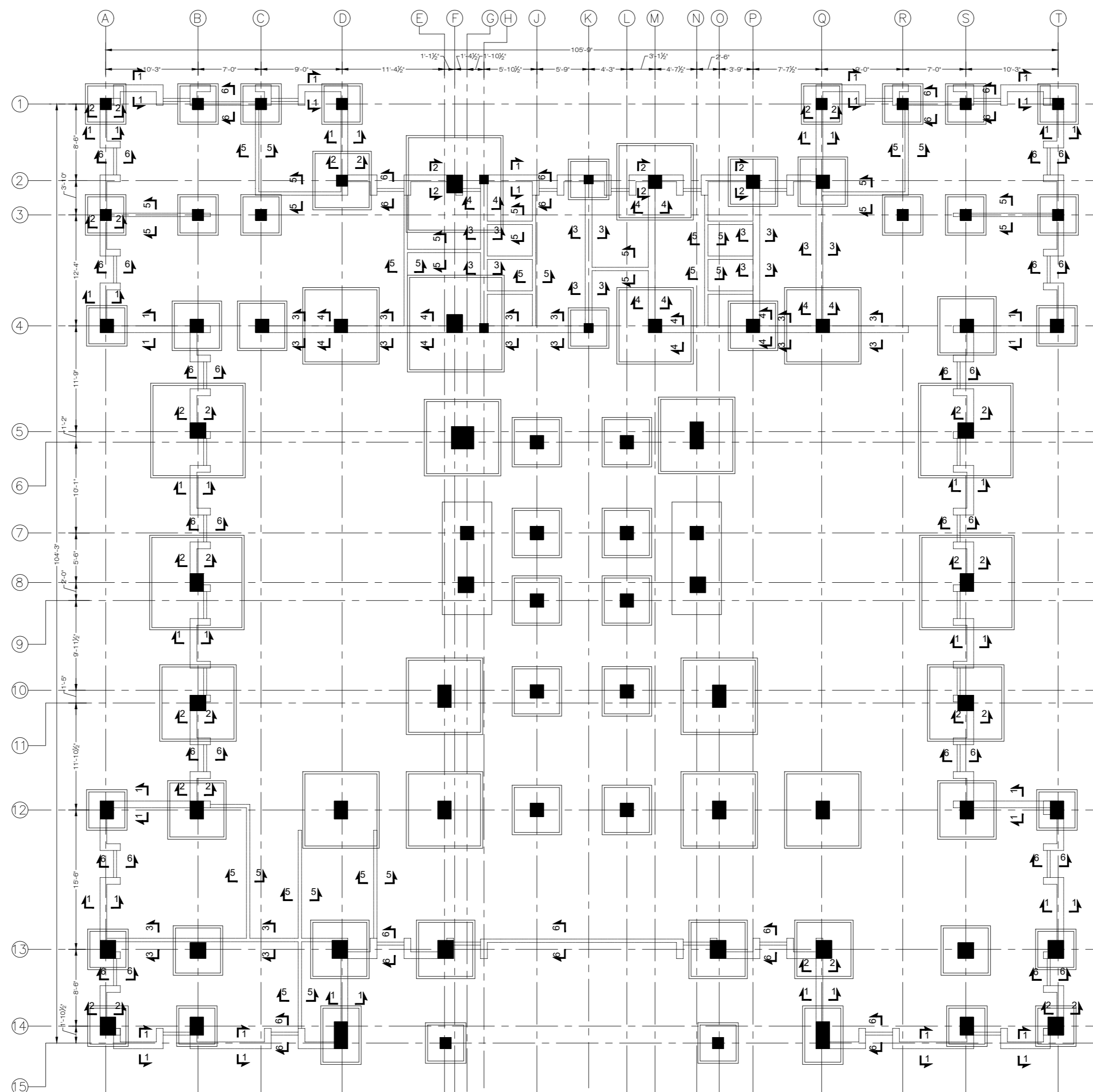
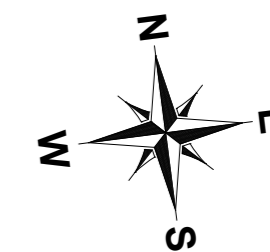
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
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 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FOUNDATION SECTION**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-09	



BRICK FOOTING LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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



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IJP 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: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

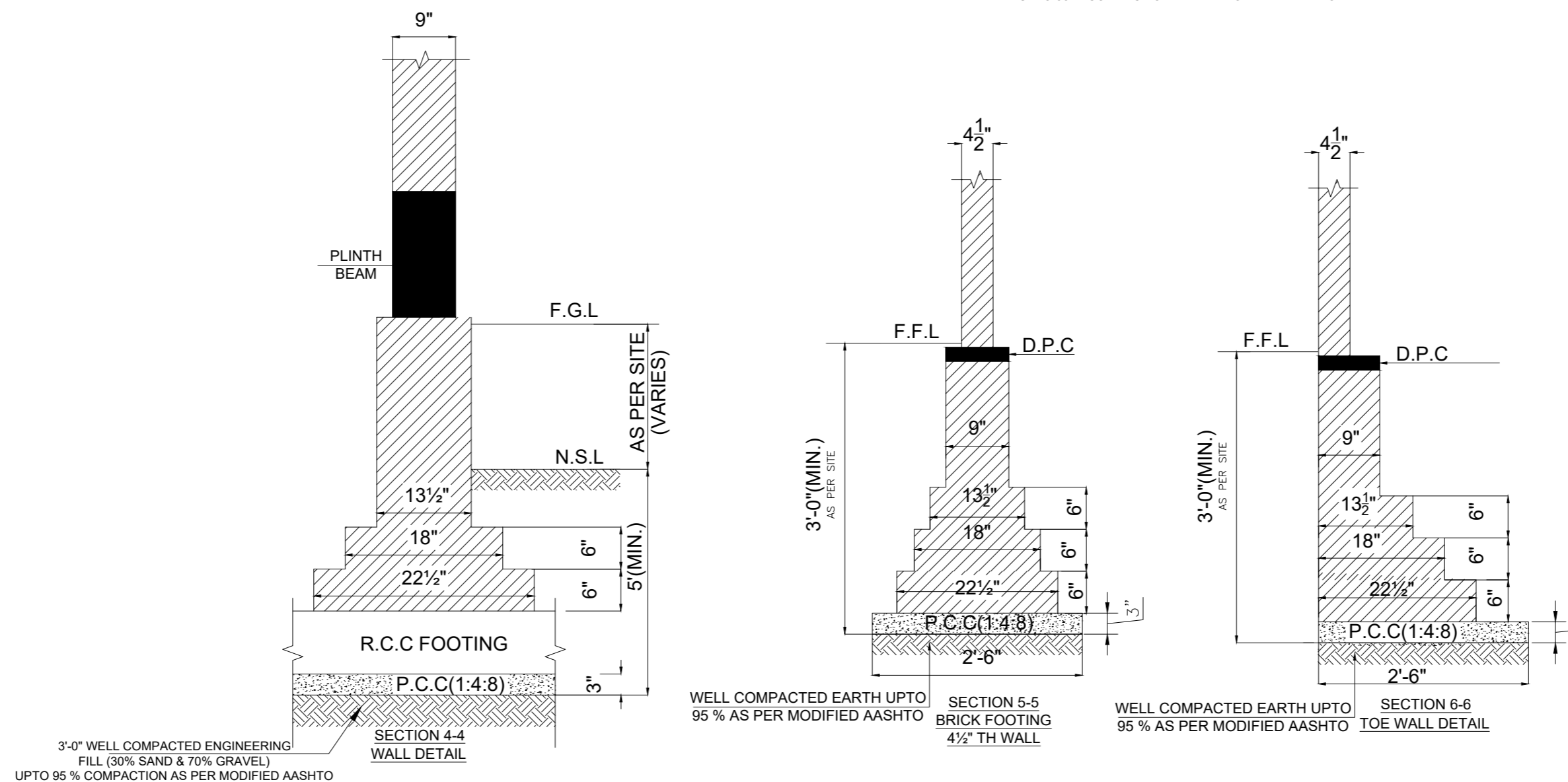
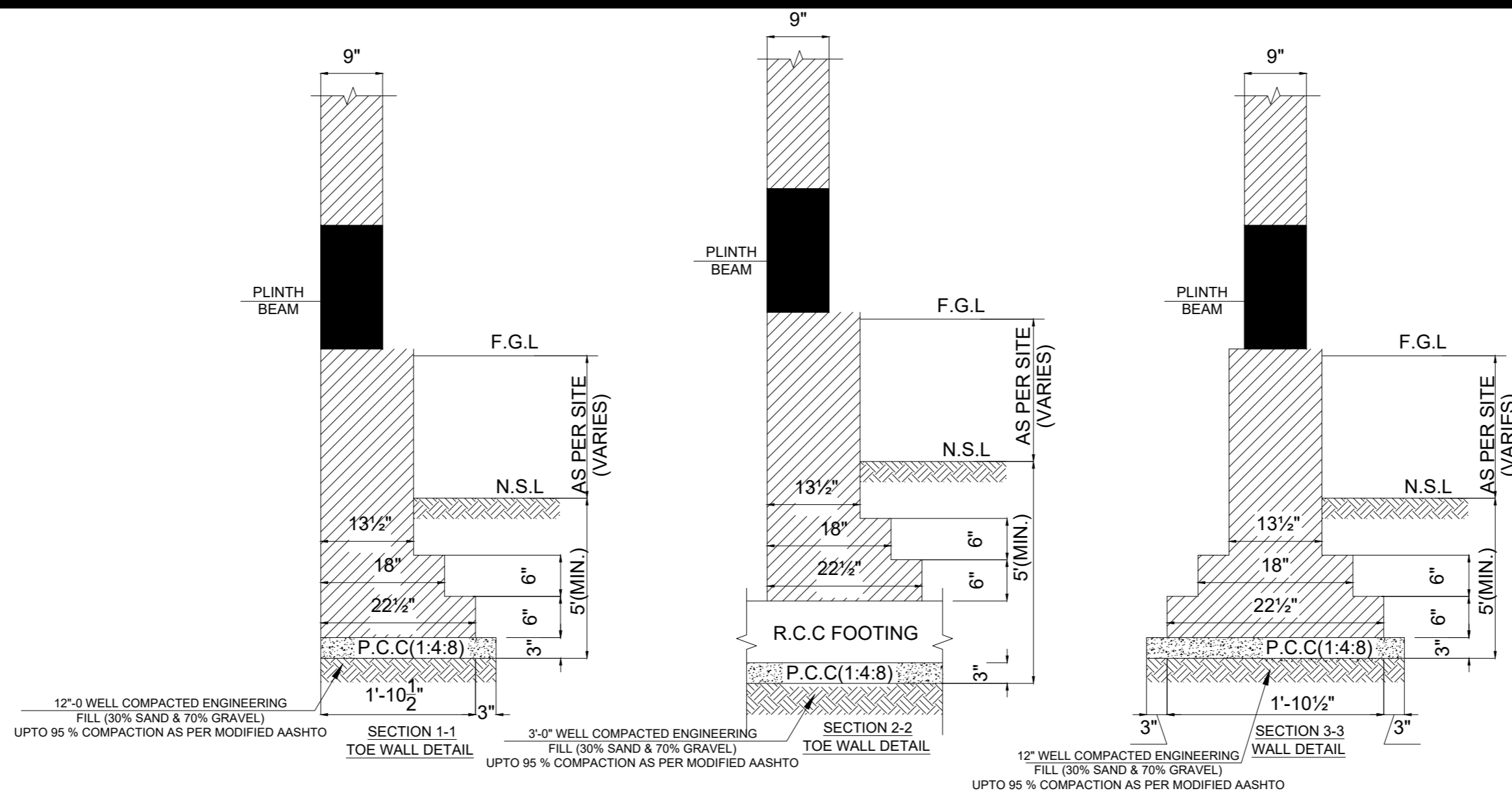
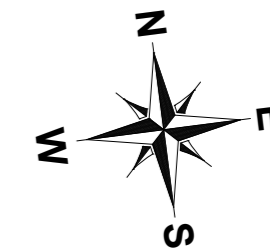
TITLE: **LUMHS LIBRARY BLOCK BRICK FOOTING LAYOUT**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD APPROVED BY: DATE: FEB,2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

DRG. NO. ST-10



NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

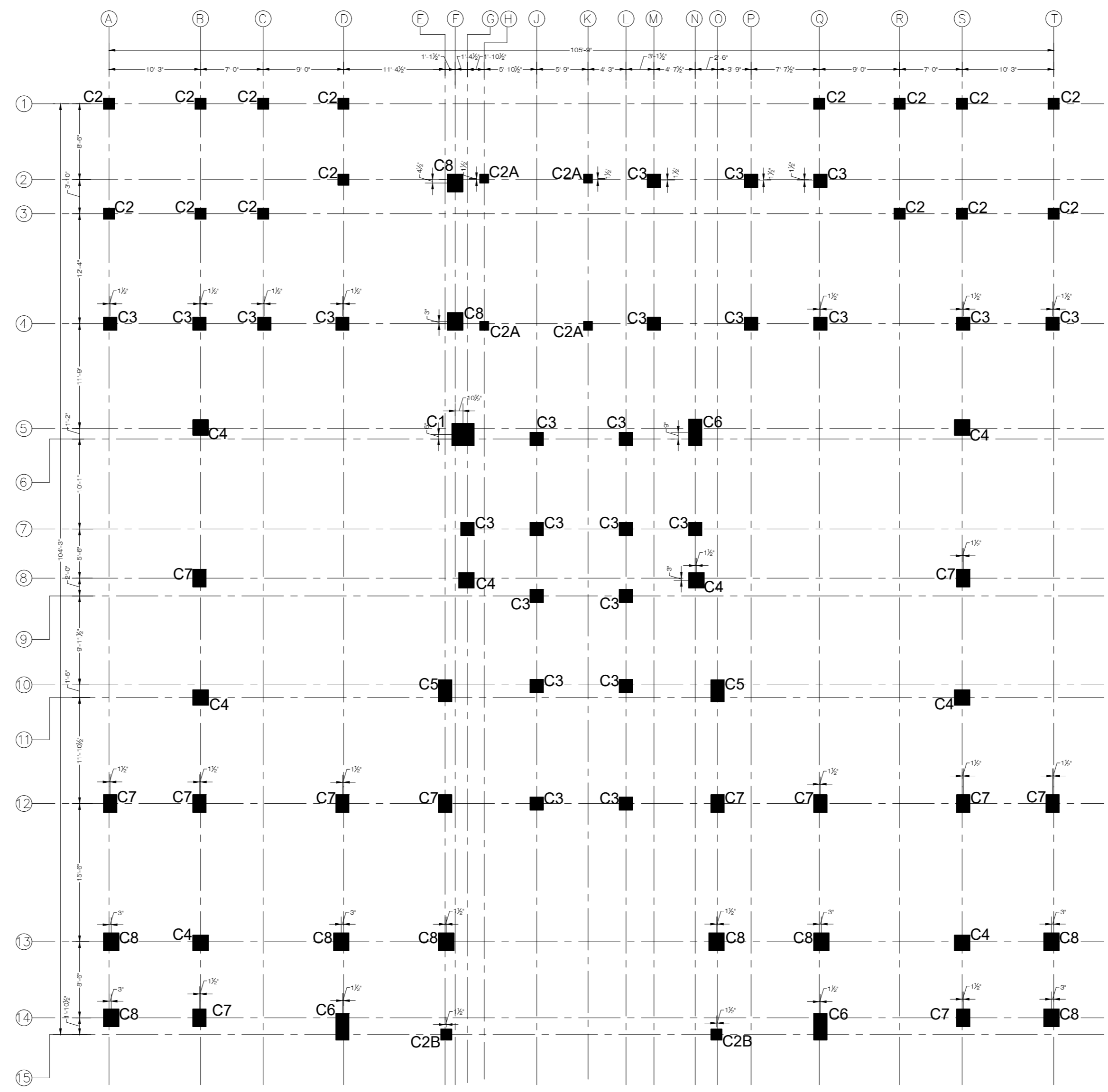
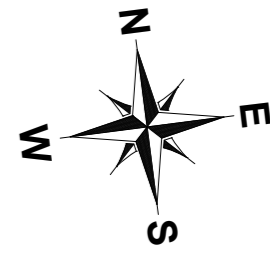
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK BRICK MASONRY FOOTING SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENG.ZAIN ARSHAD
 APPROVED BY: [Signature]
 DATE: FEB, 2024
 DRAWN BY: MATHEW SIMON
 JOB NO. [Blank]
 SCALE: N.T.S.
 DRG. NO. ST-11



COLUMN LAYOUT GROUND FLOOR PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

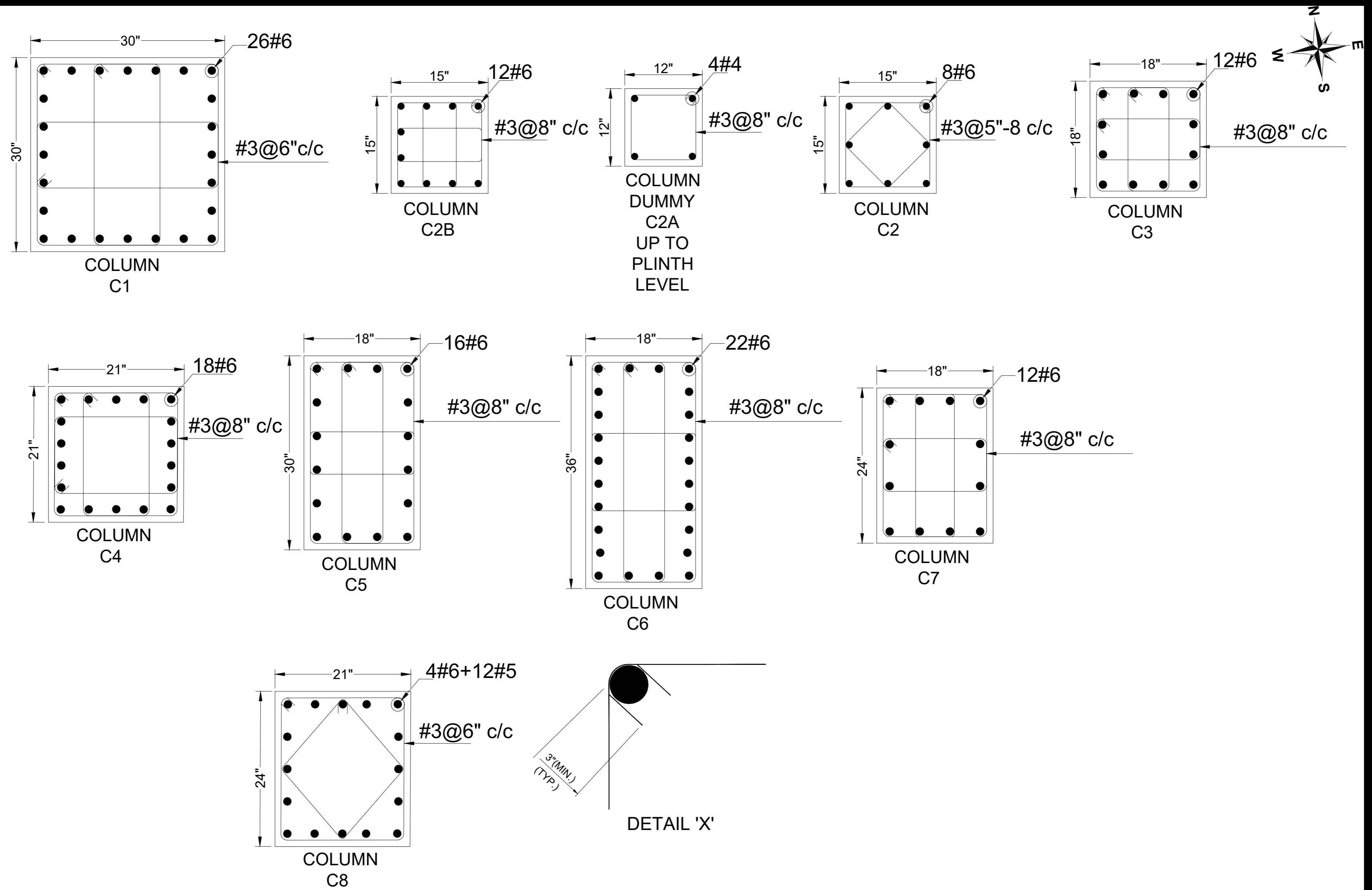
ADDITION & REVISION					
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS LIBRARY BLOCK GROUND FLOOR COLUMN LAYOUT PLAN	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG ZAIN ARSHAD		FEB, 2024
DRAWN BY:	JOB NO.:	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.:	ST-12	



NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE
 IN NATURE I.E. ,
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION
 SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS
 SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

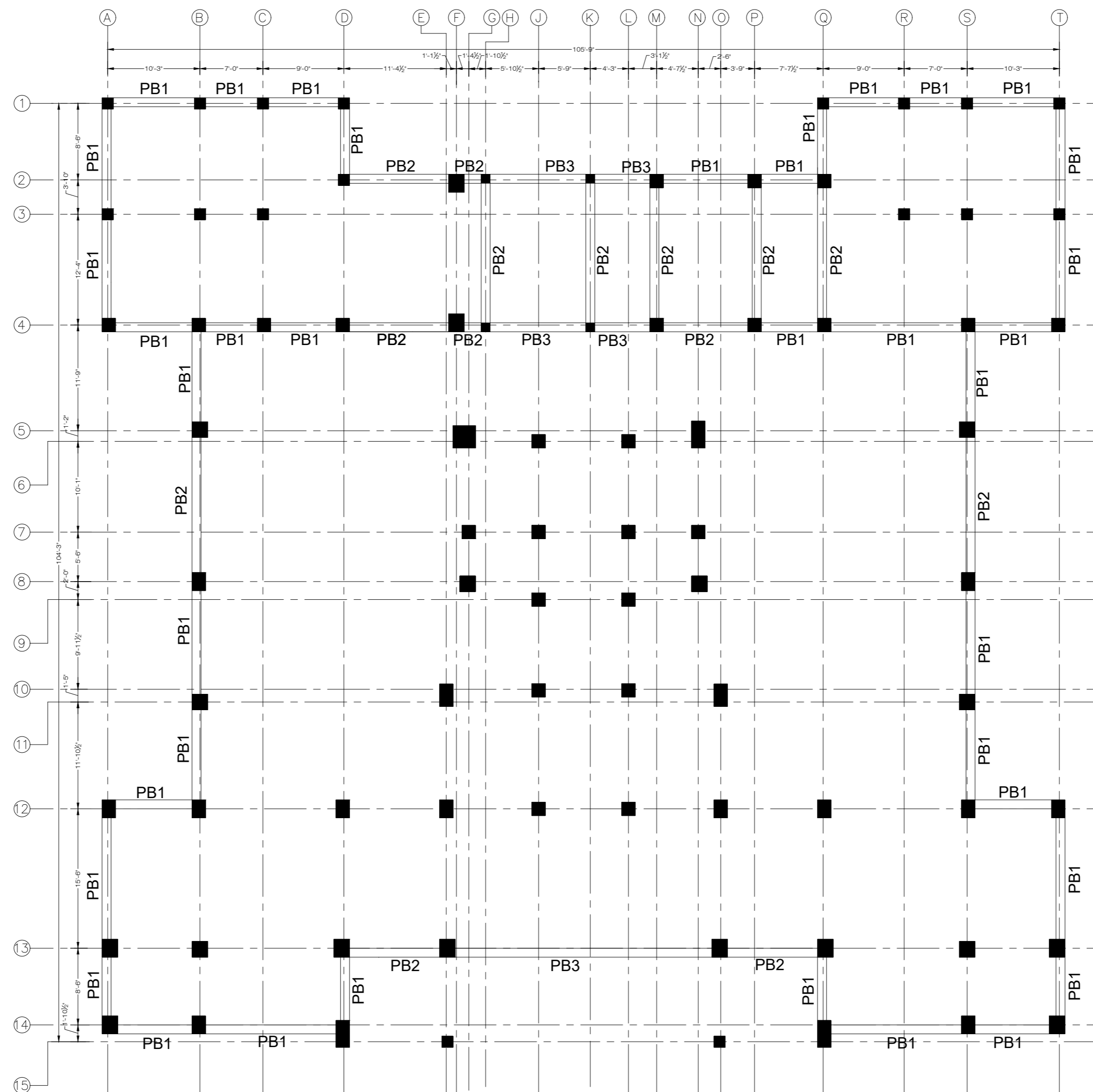
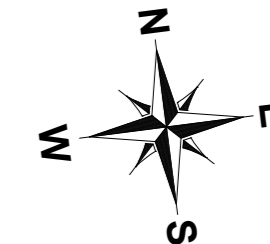
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF
 PEOPLE NURSING SCHOOL, LIAQUAT
 UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK
 COLUMN SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &
 HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENG.ZAIN ARSHAD
 APPROVED BY: [Signature]
 DATE: FEB, 2024
 DRAWN BY: MATHEW SIMON
 JOB NO.: [Blank]
 SCALE: N.T.S
 DRG. NO.: ST-13



PLINTH BEAM LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

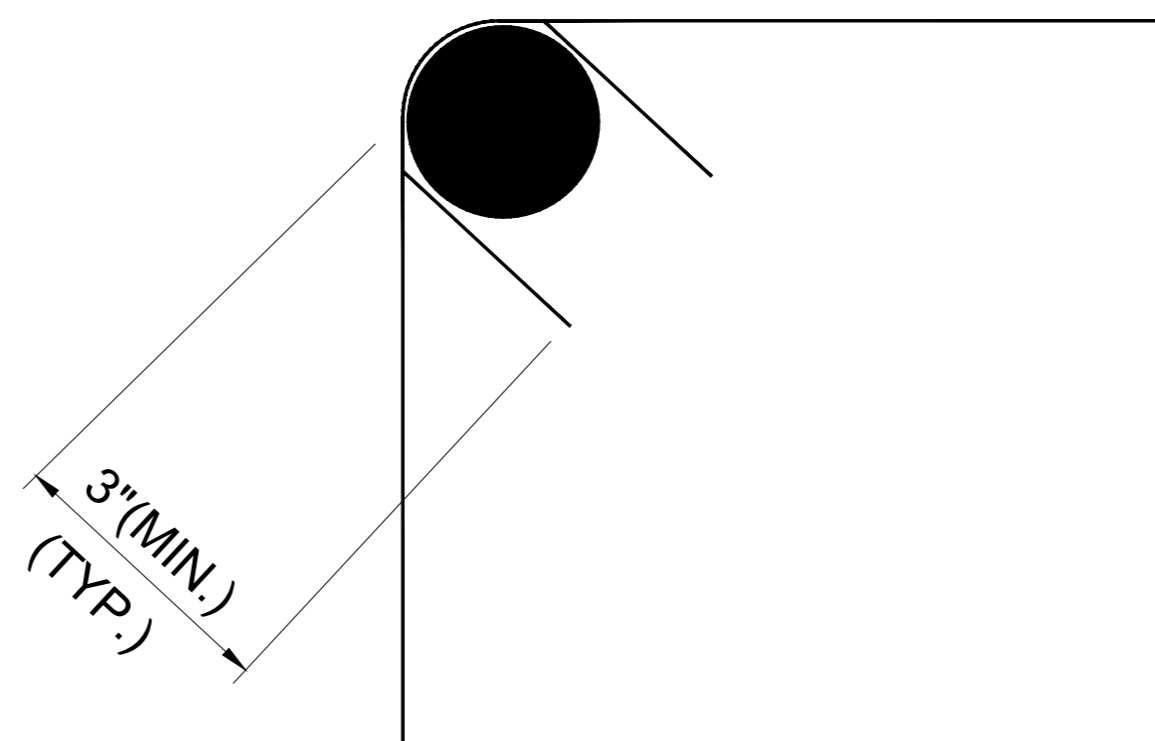
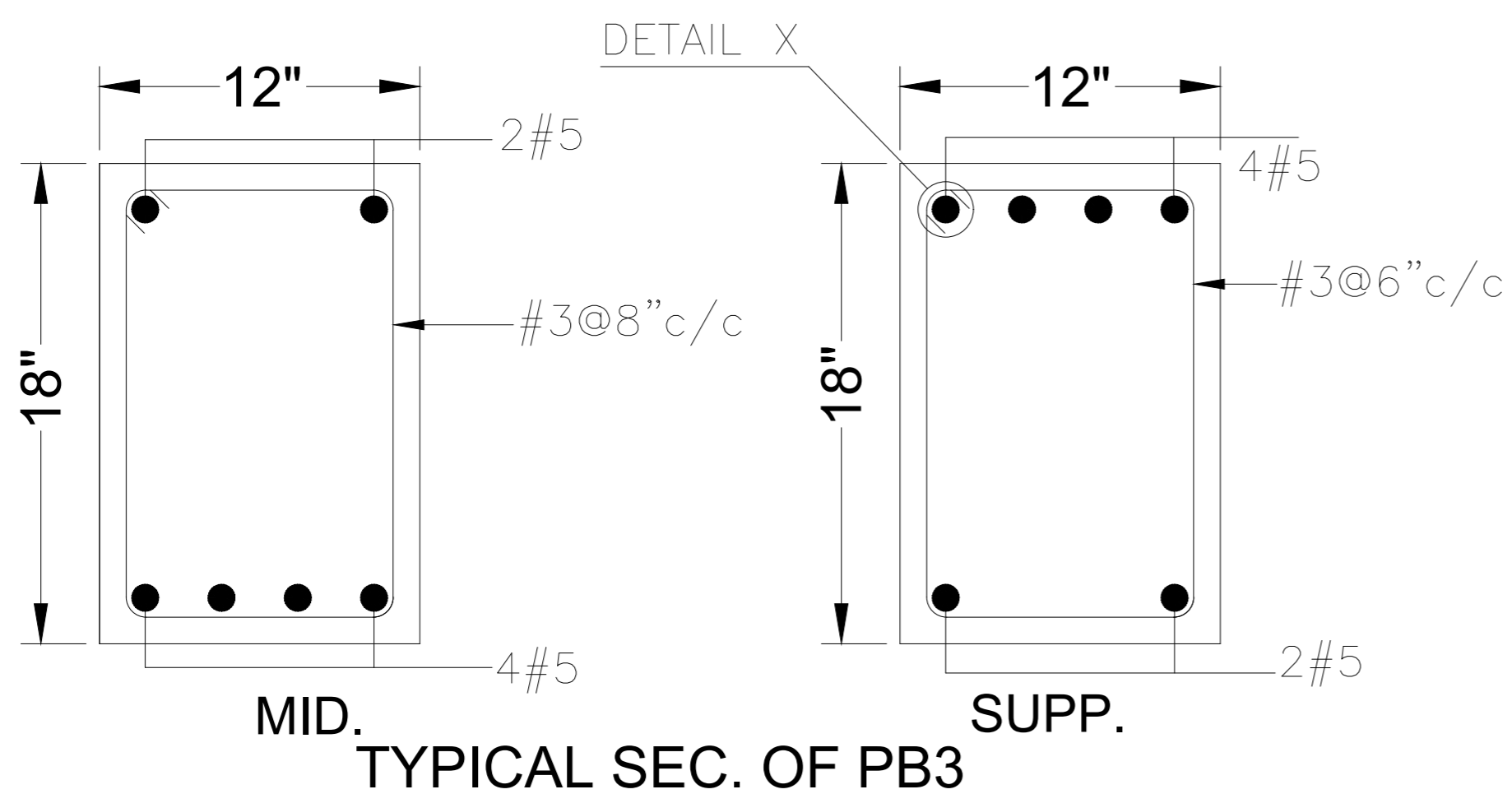
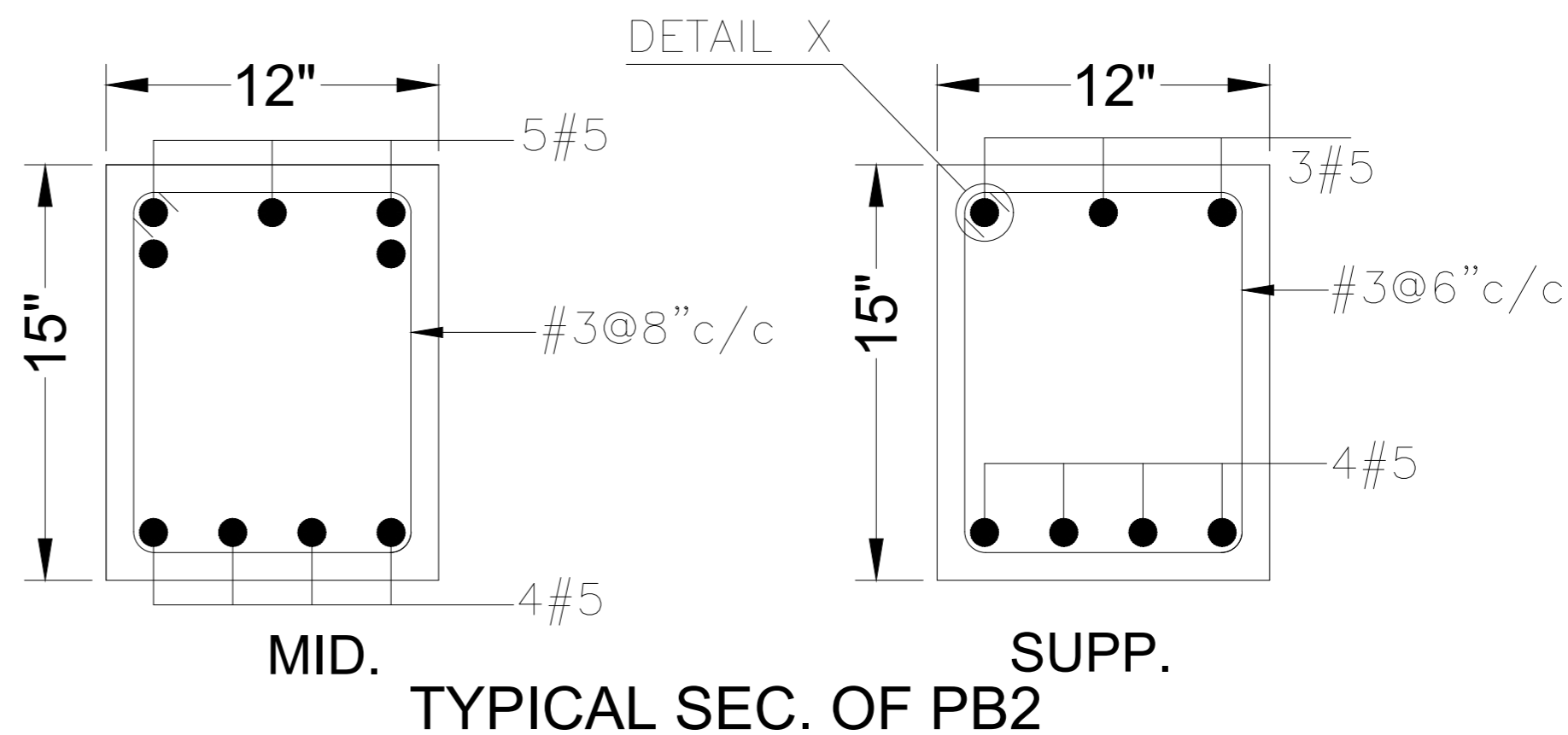
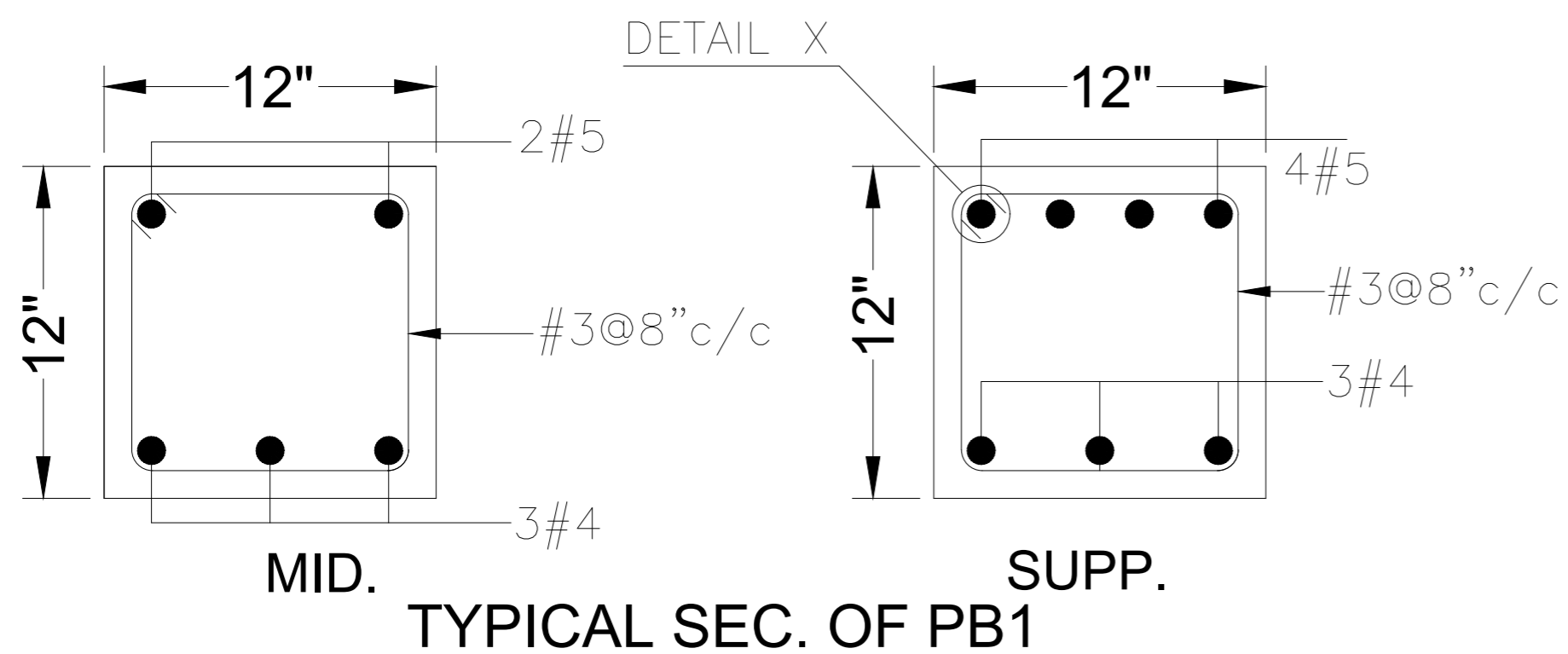
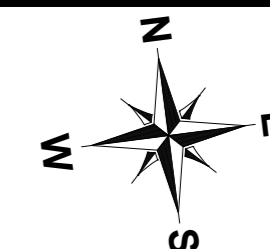
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IJP Road Islamabad.
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK PLINTH BEAM LAYOUT PLAN**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-14	



NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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

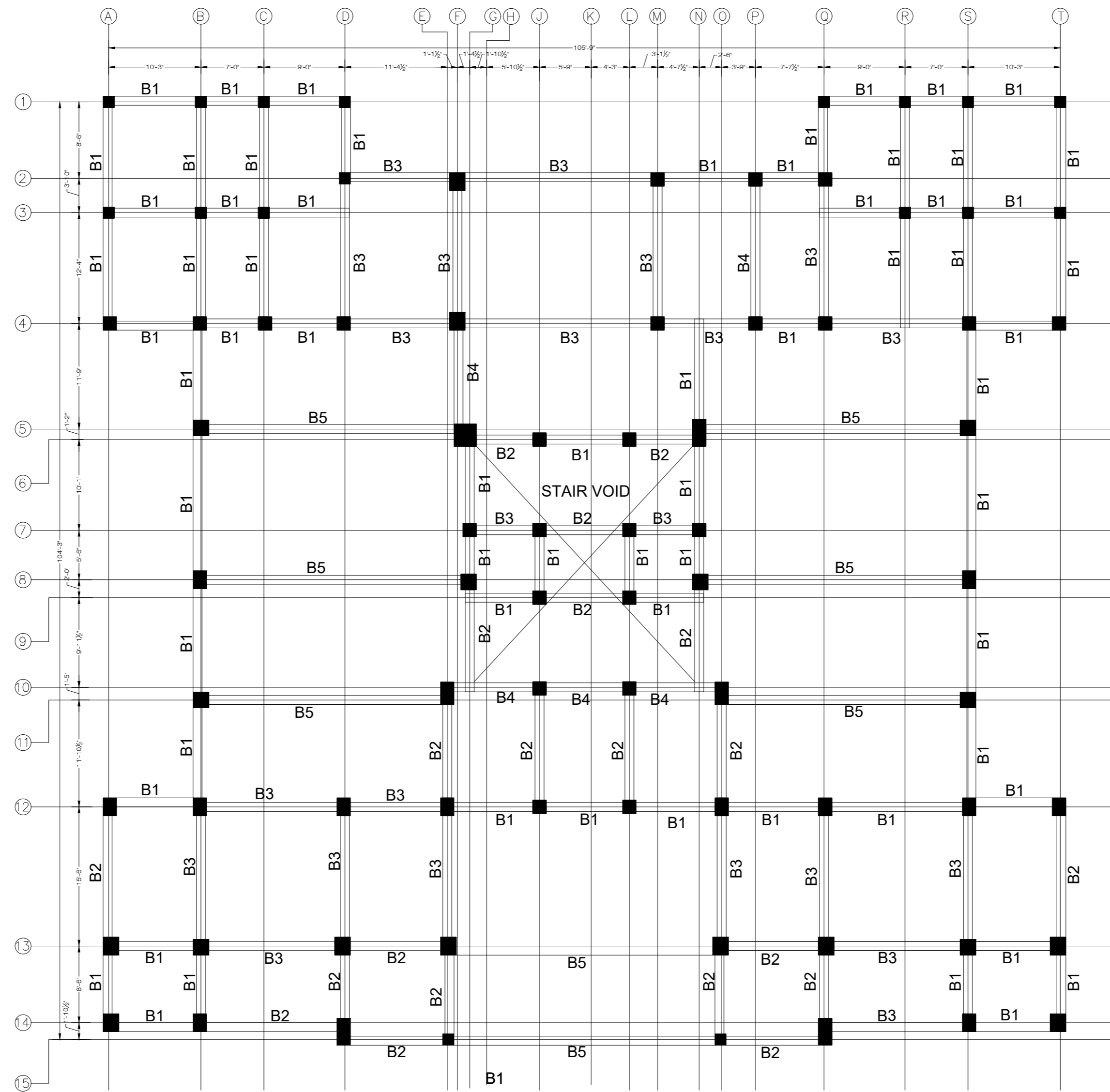
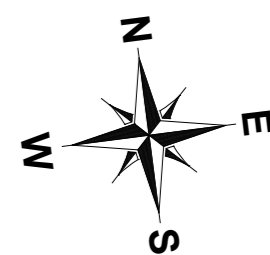


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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK PLINTH BEAM SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-15	



GROUND FLOOR BEAM LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

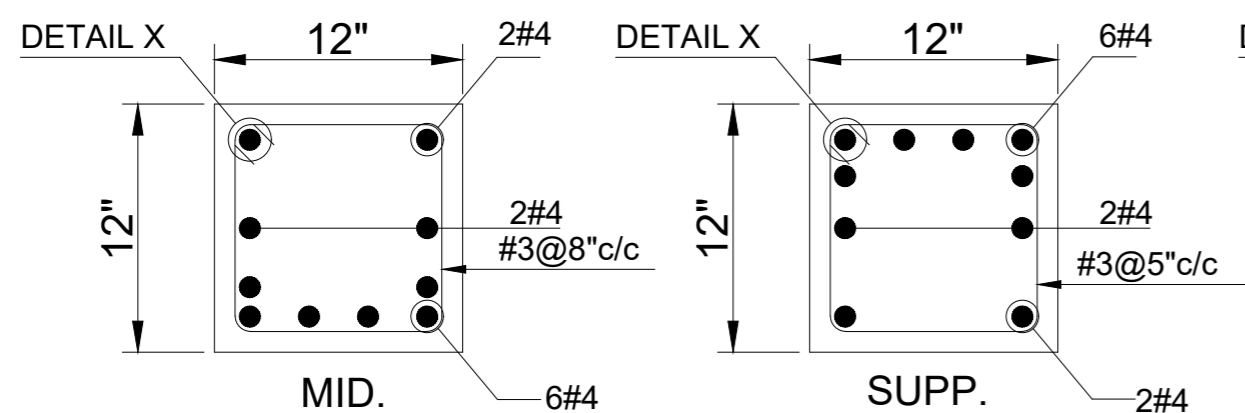
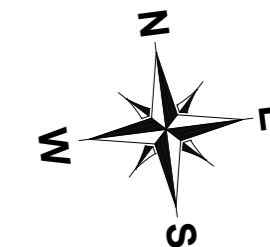
ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES BY	CHK BY	APP BY



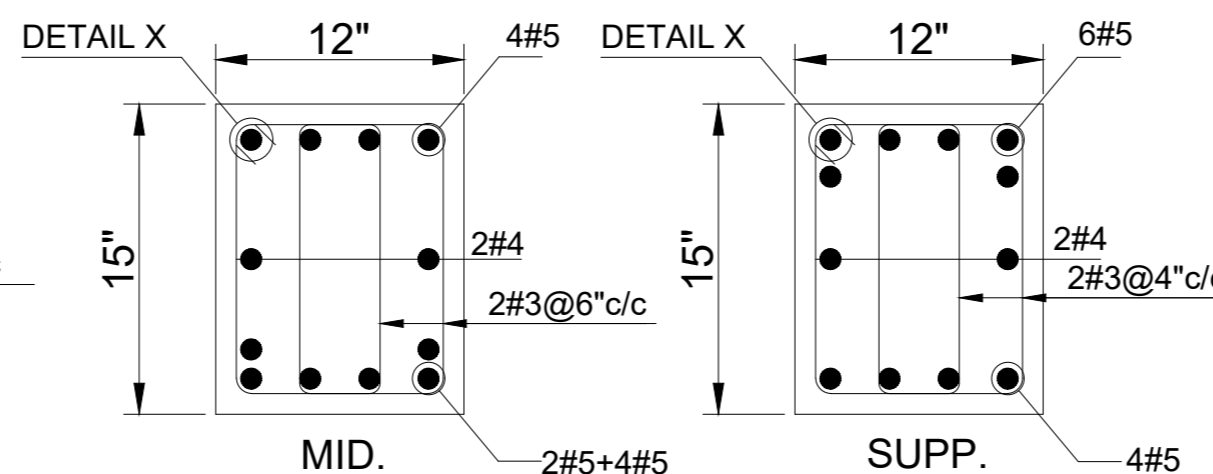
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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR BEAM LAYOUT PLAN**

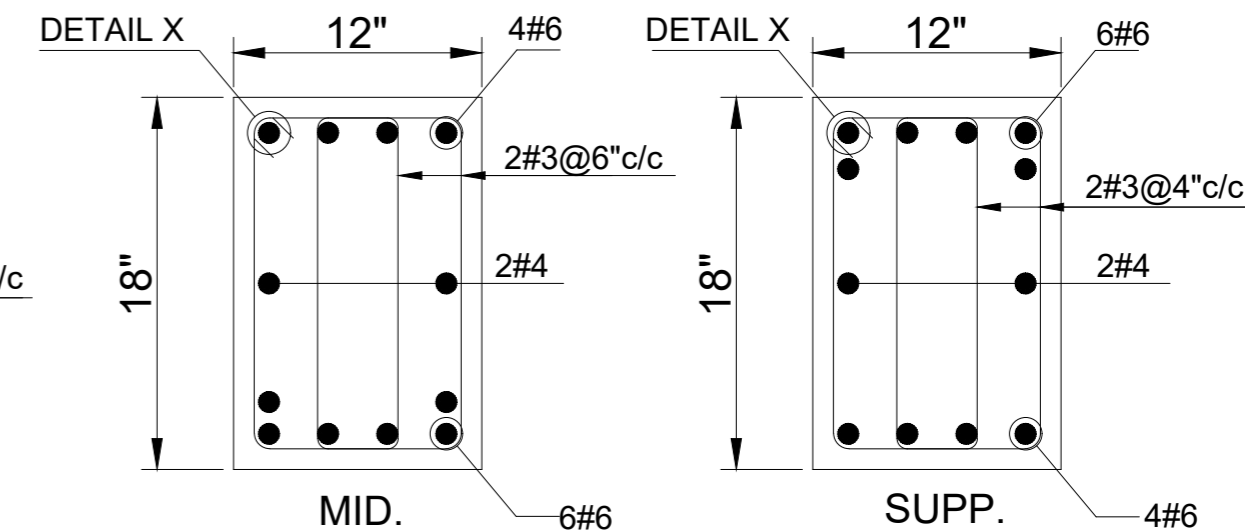
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-16	



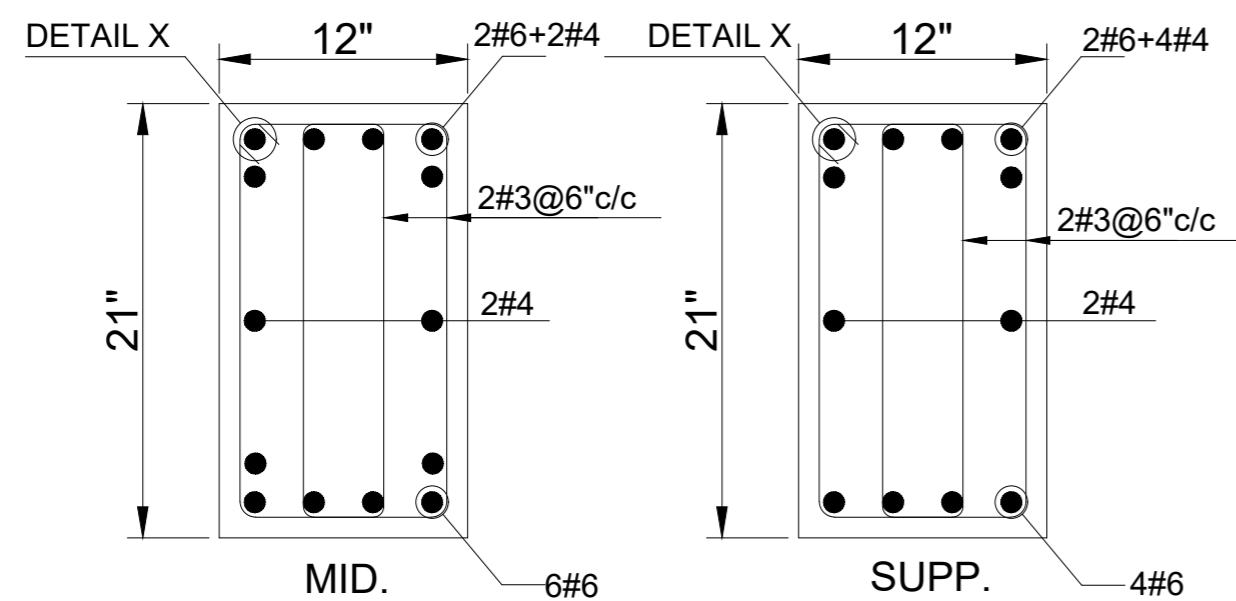
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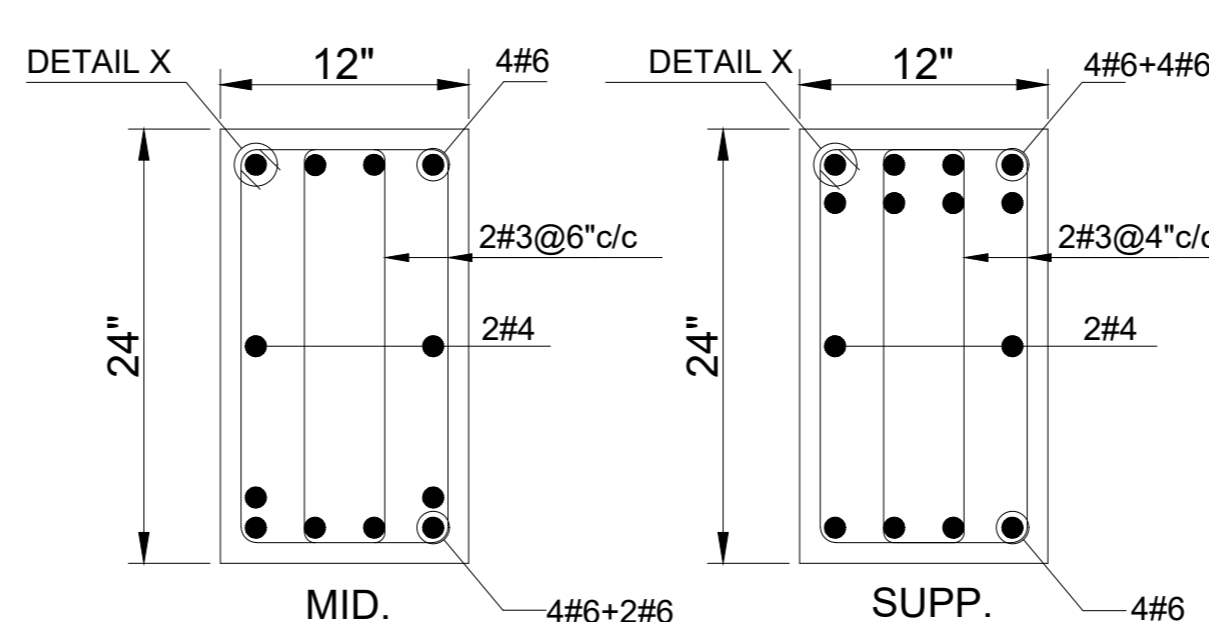
TYPICAL SEC. OF B-2



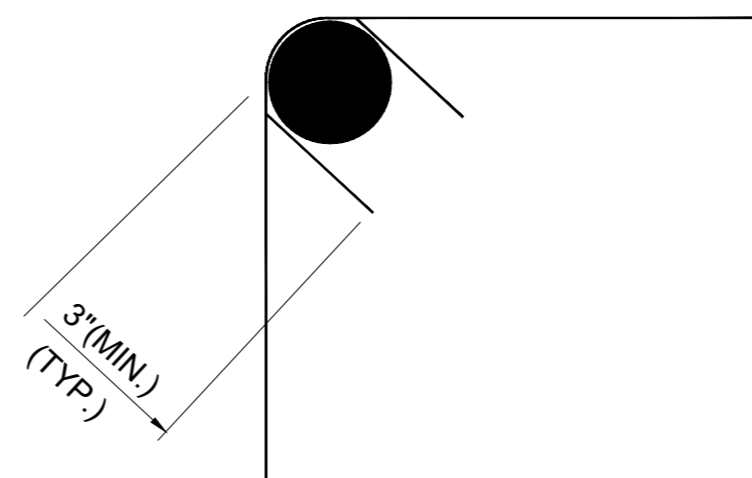
TYPICAL SEC. OF B3



TYPICAL SEC. OF B4



TYPICAL SEC. OF B5



DETAIL 'X'

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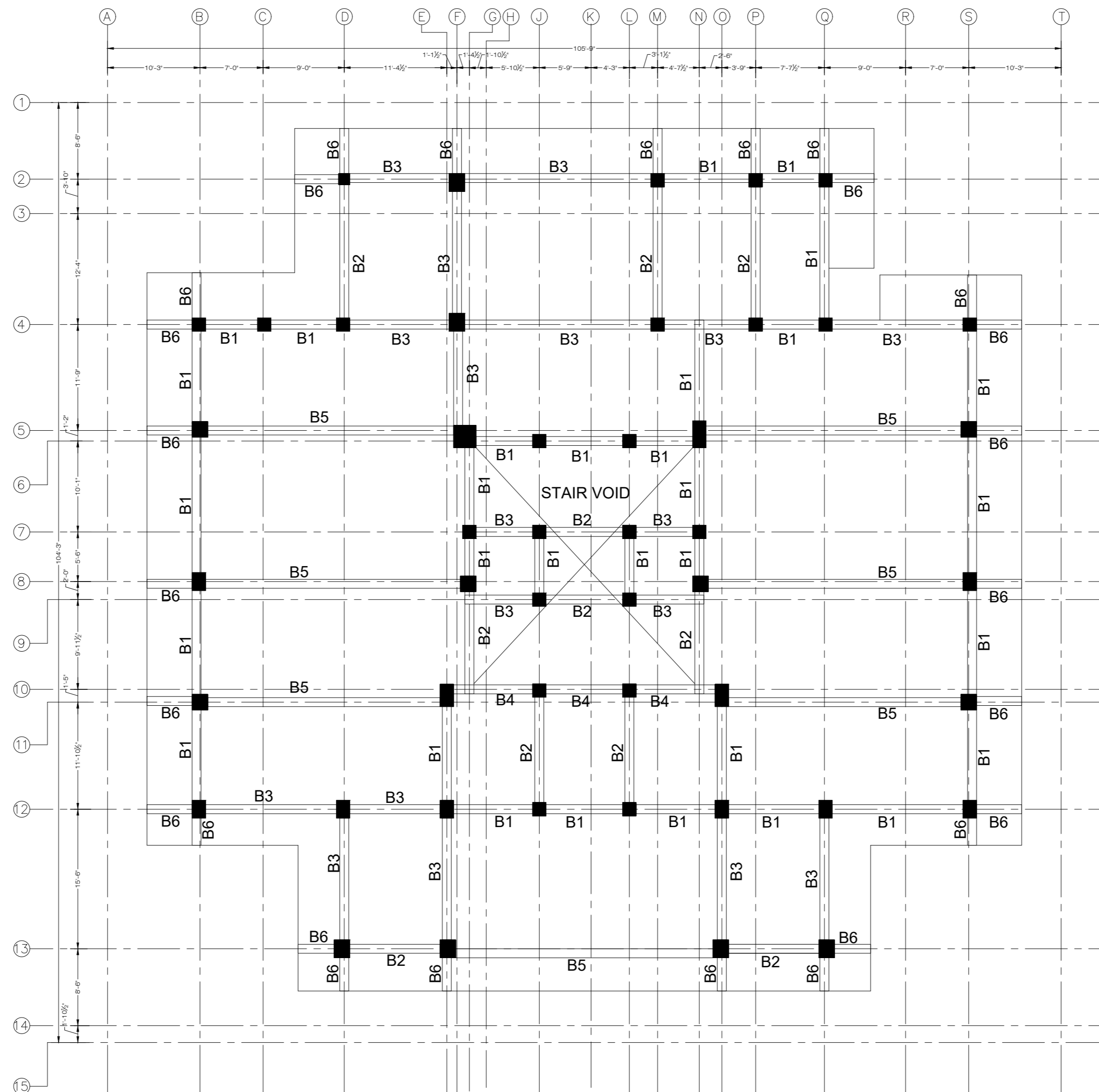
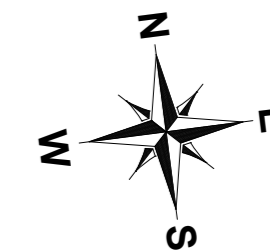
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR BEAM SECTION**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-17	



FIRST FLOOR BEAM LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

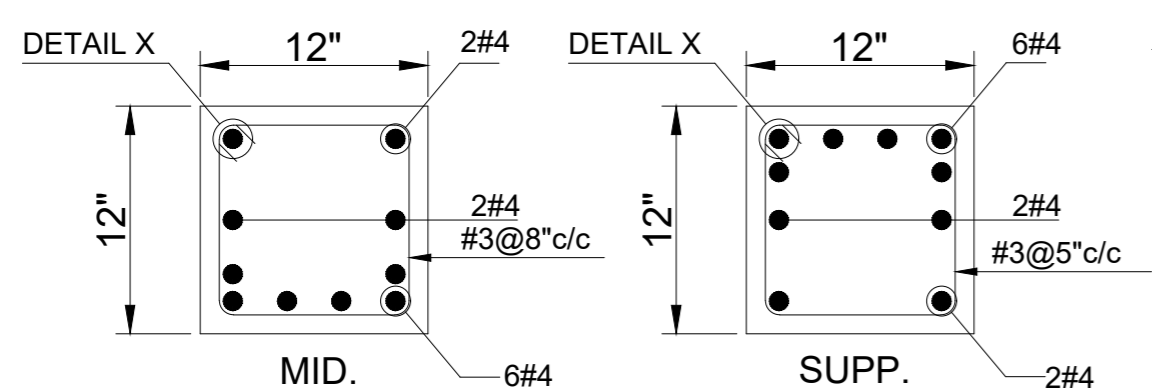
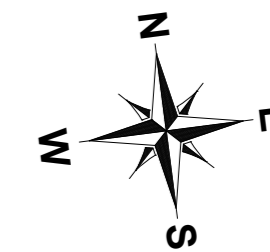
ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



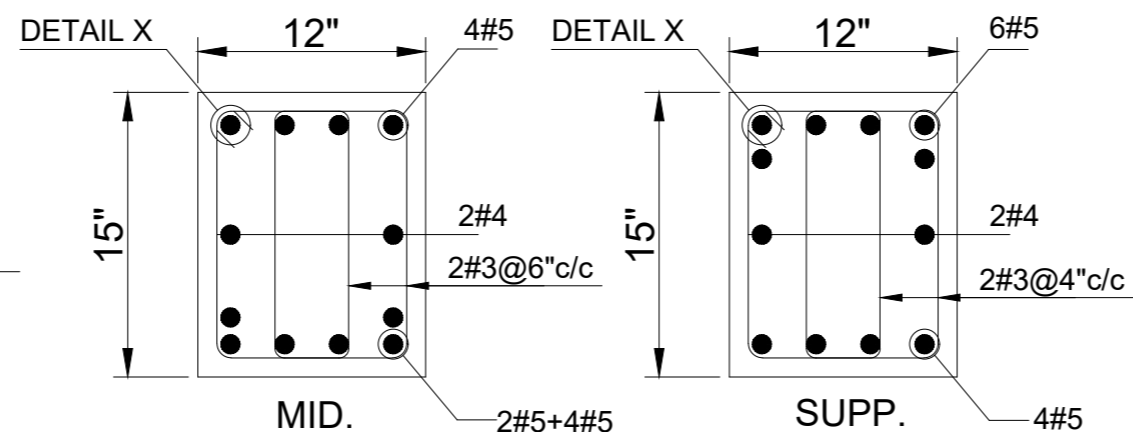
NEW VISION ENGINEERING CONSULTANT
Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR BEAM LAYOUT PLAN**

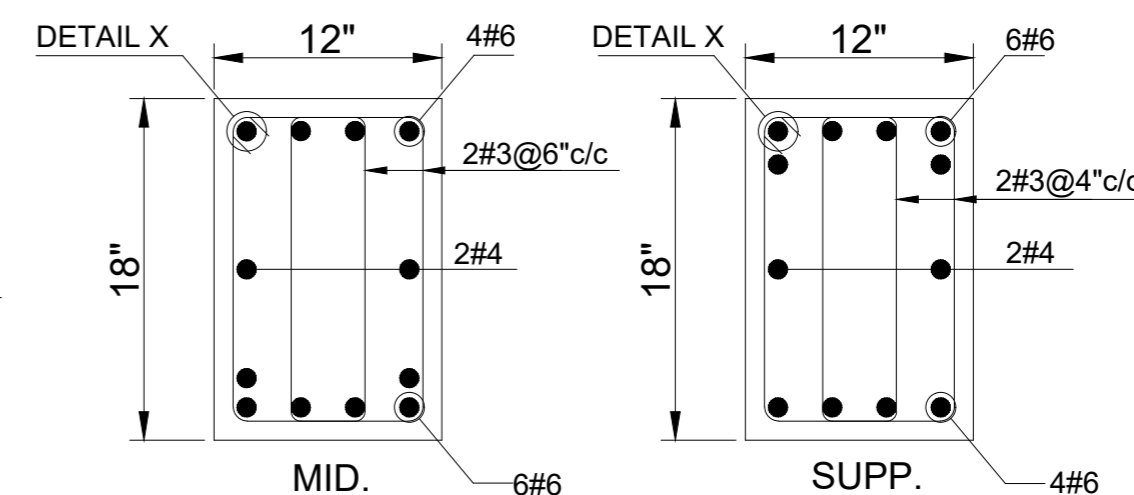
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-18	



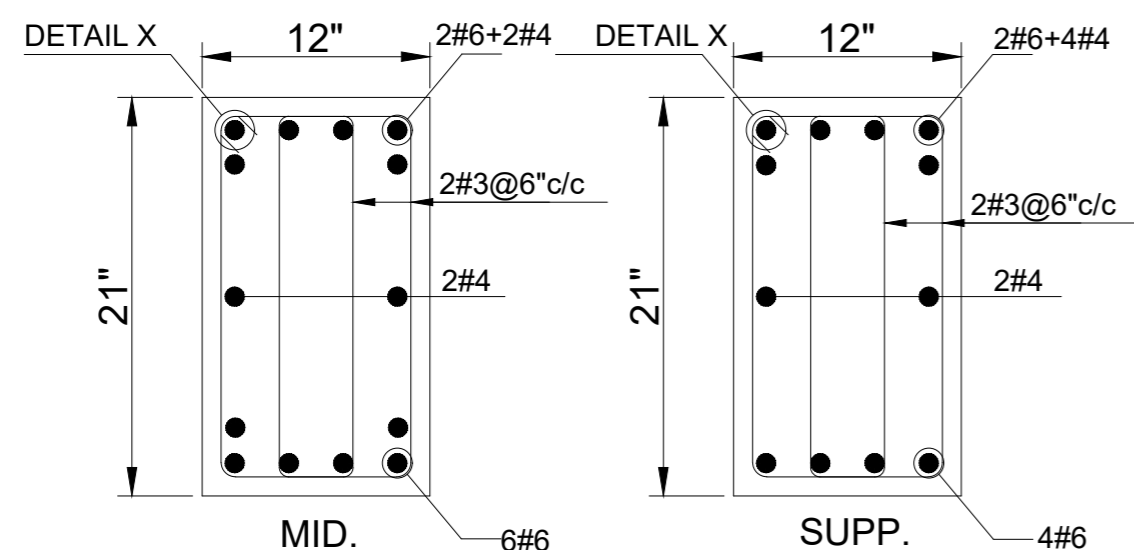
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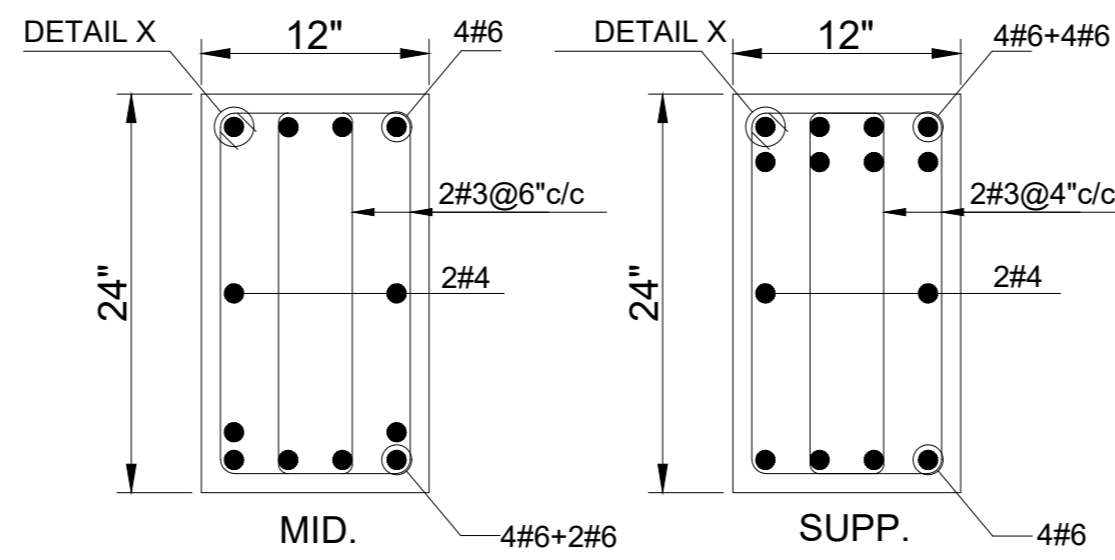
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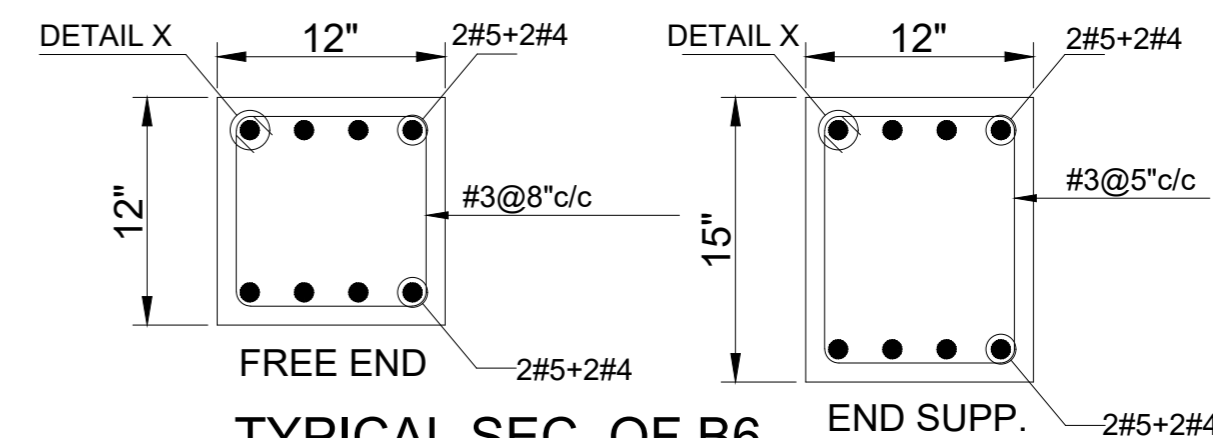
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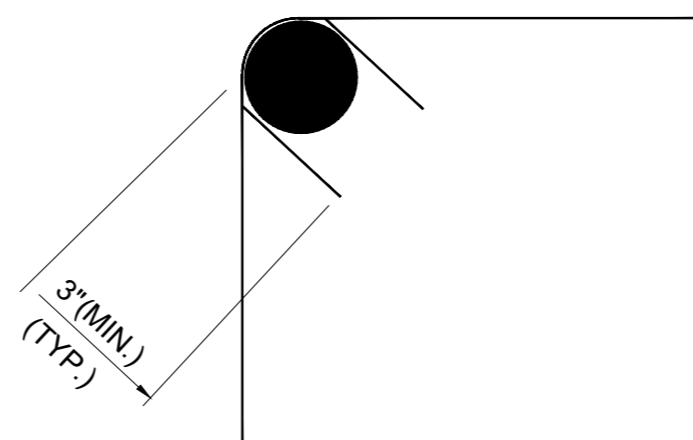
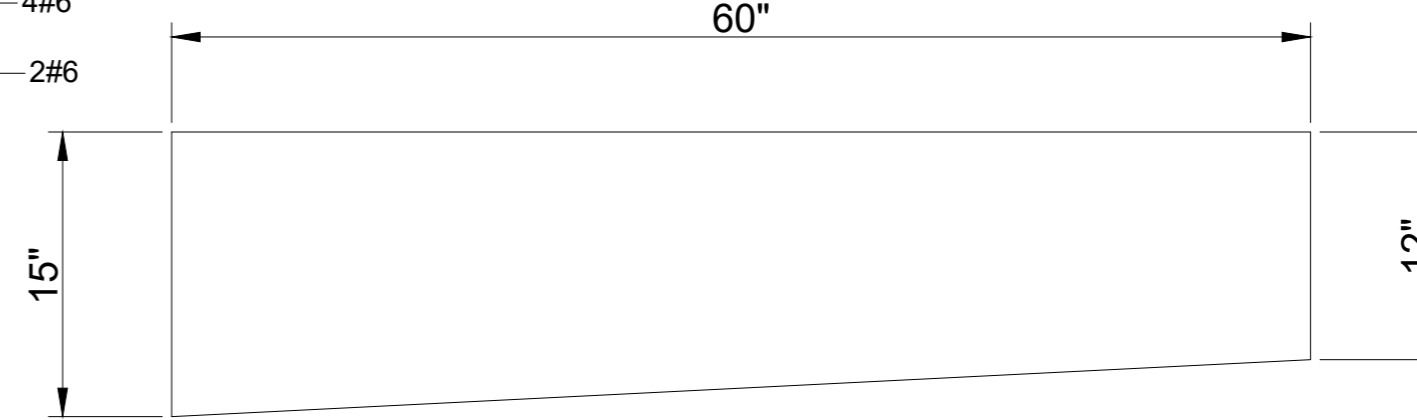
TYPICAL SEC. OF B4



TYPICAL SEC. OF B5



TYPICAL SEC. OF B6
TAPERED BEAM



DETAIL 'X'

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

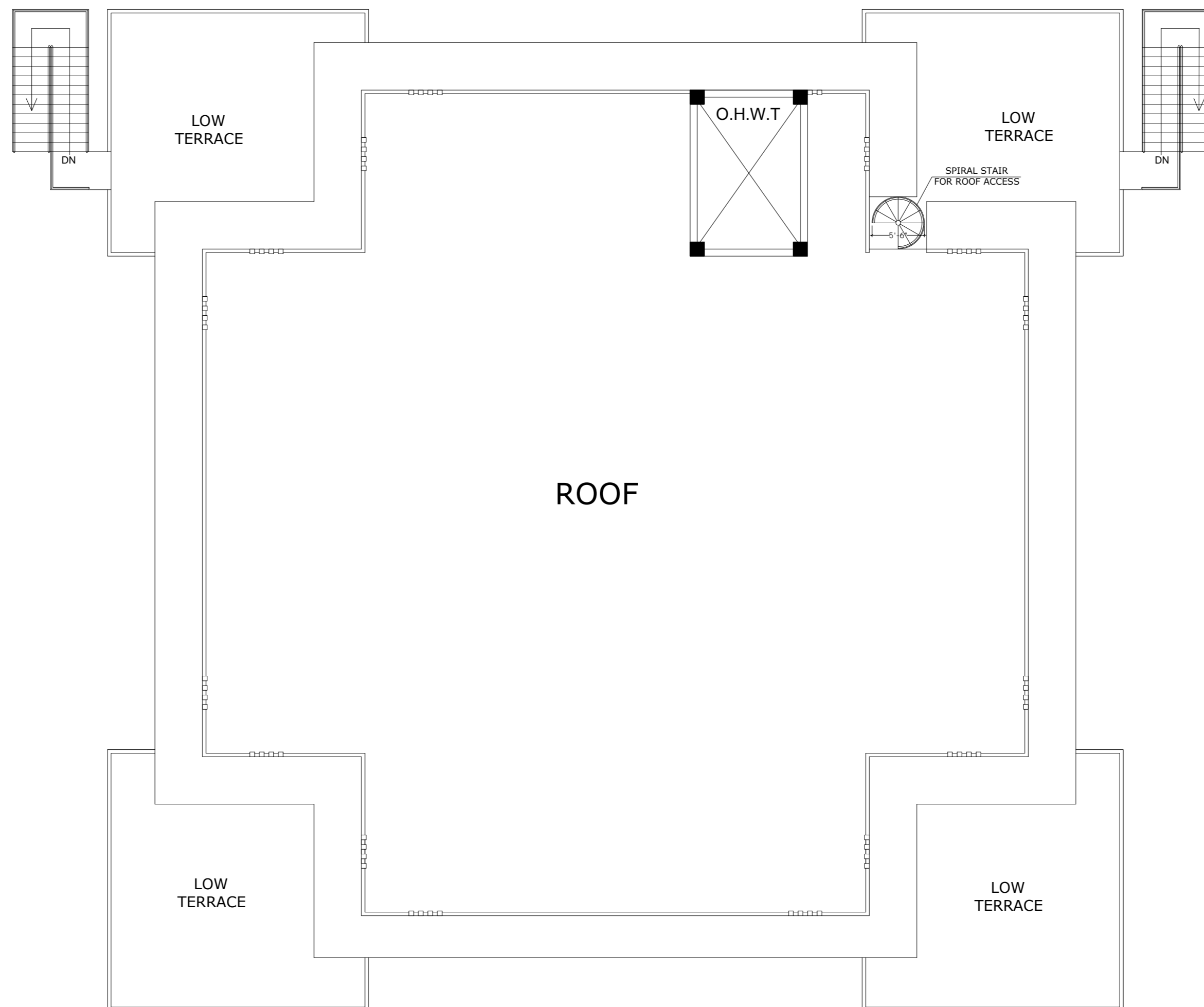
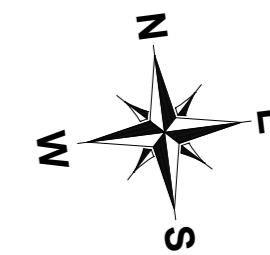
ADDITION & REVISION						
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY	



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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
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR BEAM SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENG ZAIN ARSHAD
 APPROVED BY: [Signature]
 DATE: FEB, 2024
 DRAWN BY: MATHEW SIMON
 JOB NO.: [Blank]
 SCALE: N.T.S.
 DRG. NO.: ST-19



ROOF FLOORLAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES BY	CHK BY	APP 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 # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

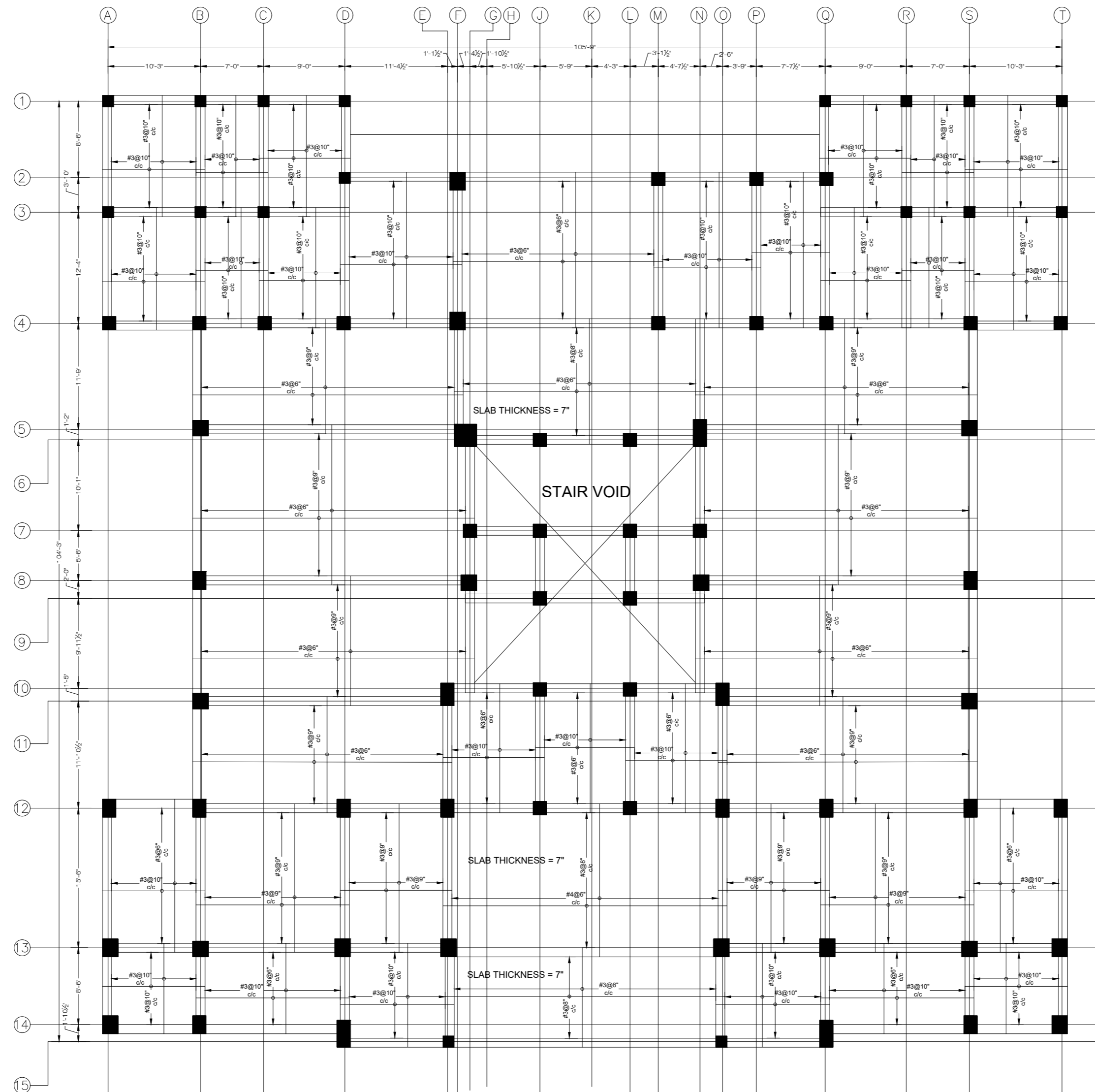
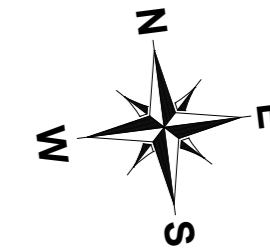
TITLE: **LUMHS LIBRARY BLOCK ROOF FLOOR LAYOUT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD APPROVED BY: DATE: FEB,2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

DRG. NO. ST-20



GROUND FLOOR SLAB LAYOUT
 POSITIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6" (EXCEPT WHERE AS NOTED)
 COVERED AREA=10,589 SFT

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

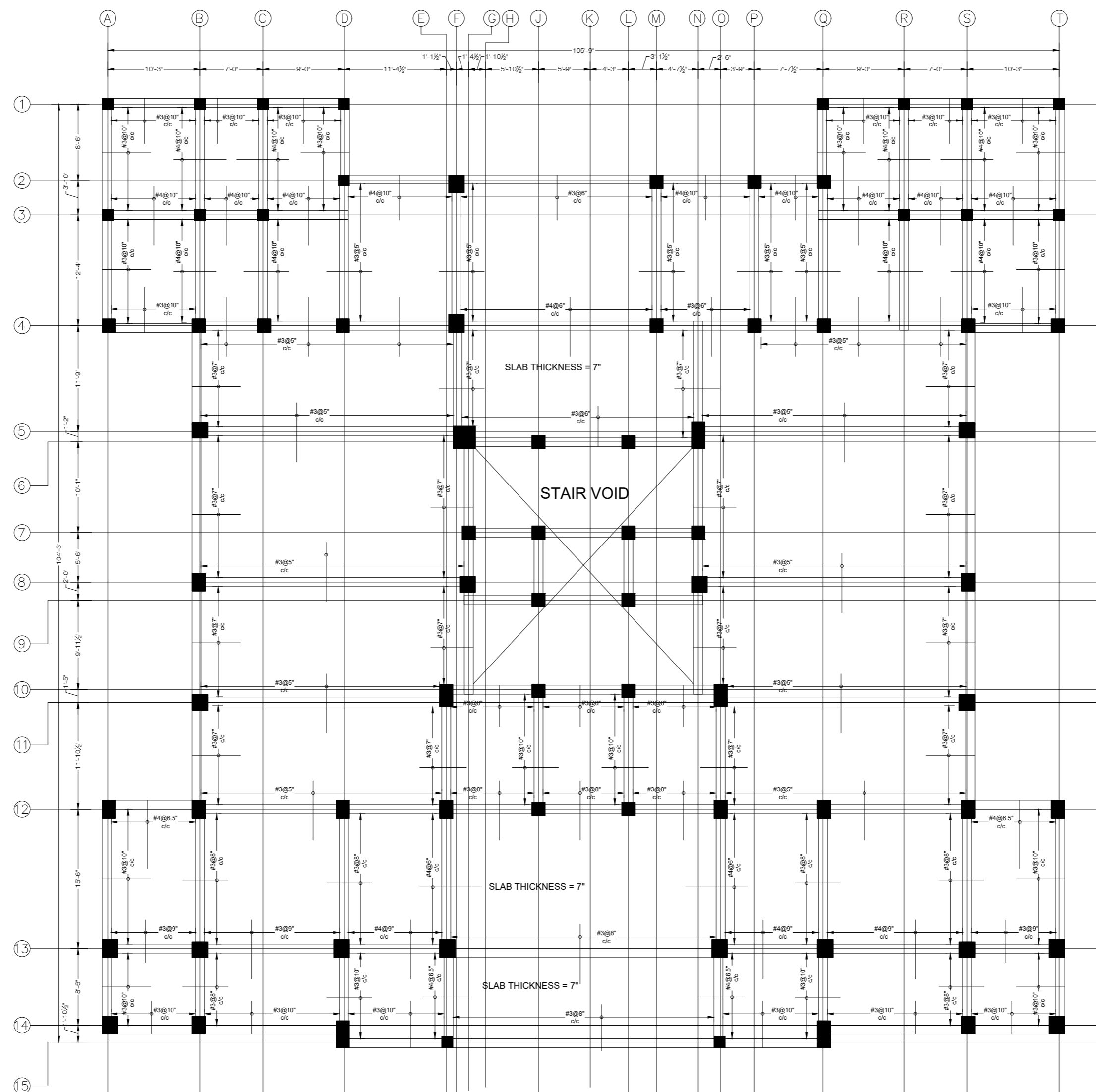
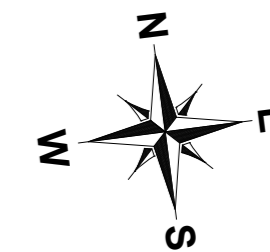
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR POSITIVE REINFORCEMENT PLAN**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-21	



GROUND FLOOR SLAB LAYOUT
 NEGATIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6" (EXCEPT WHERE AS NOTED)
 COVERED AREA=10,589 SFT

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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

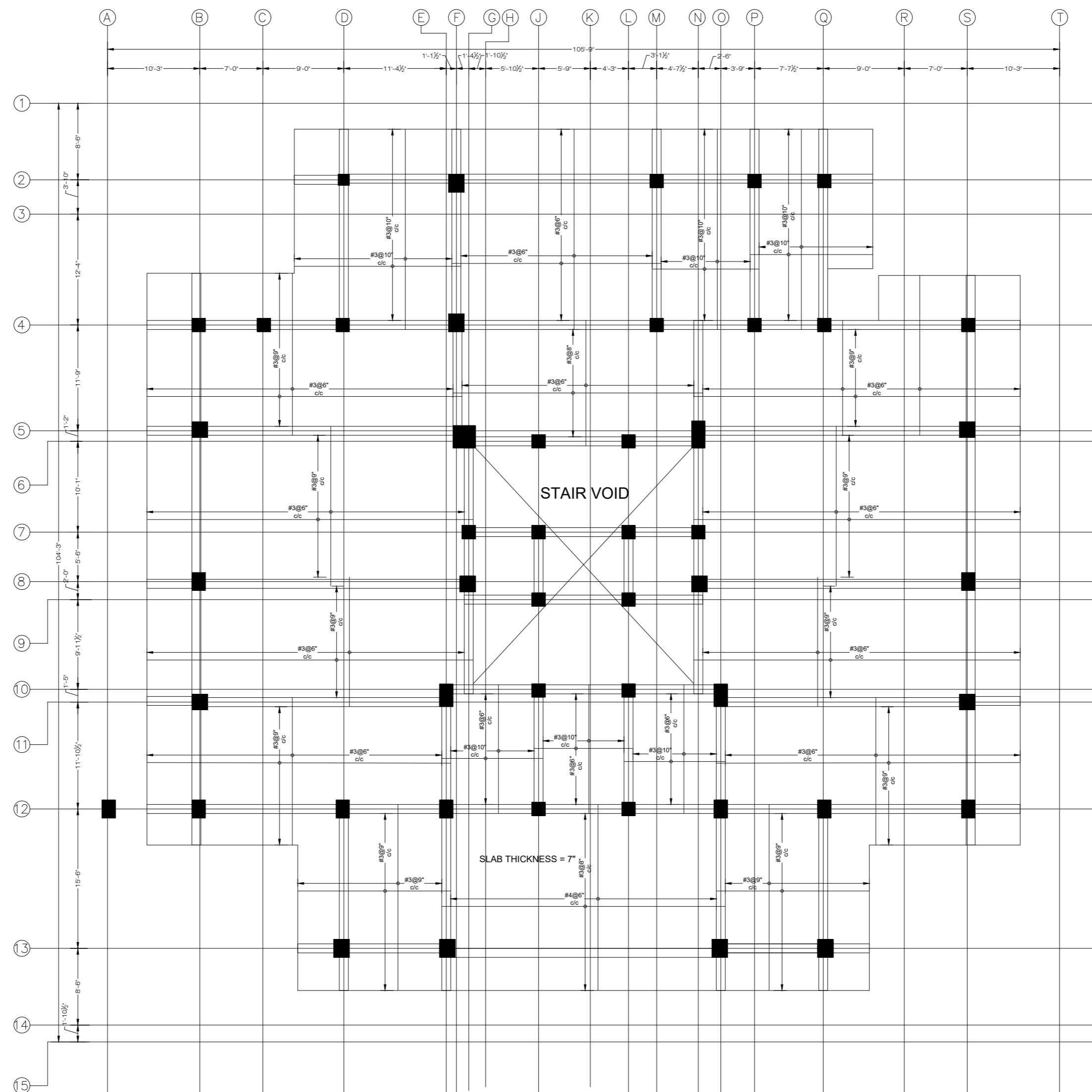
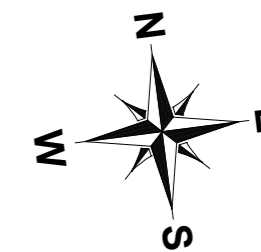


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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR NEGATIVE REINFORCEMENT PLAN**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-22	



FIRST FLOOR SLAB LAYOUT
 POSITIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6" (EXCEPT WHERE AS NOTED)
 COVERED AREA=8,216 SFT

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

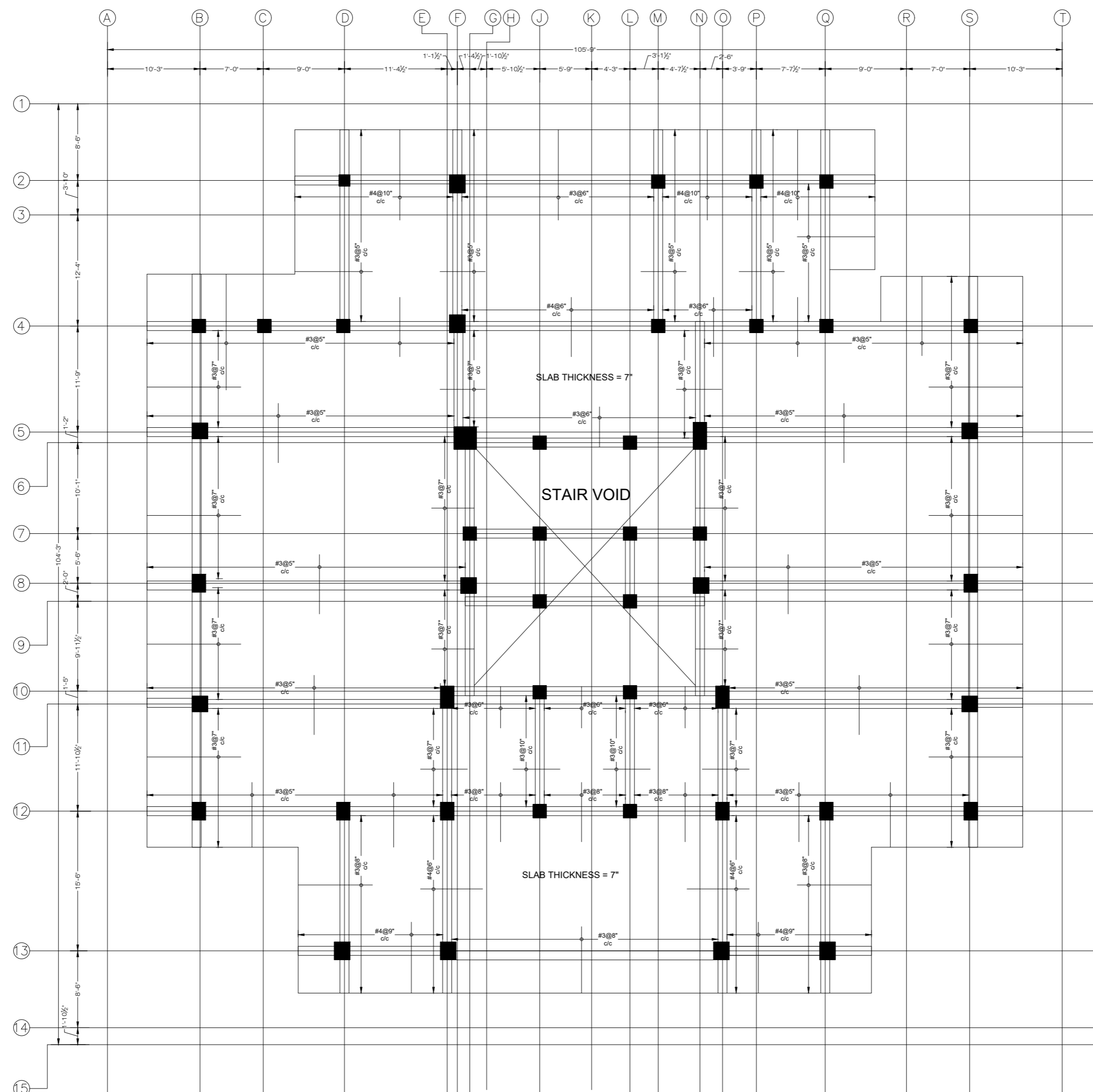
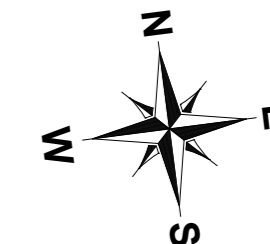
TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR POSITIVE REINFORCEMENT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD APPROVED BY: DATE: FEB,2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

DRG. NO. ST-23



FIRST FLOOR SLAB LAYOUT
 NEGATIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6.5" (EXCEPT WHERE AS NOTED)
 COVERED AREA=8,216 SFT

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

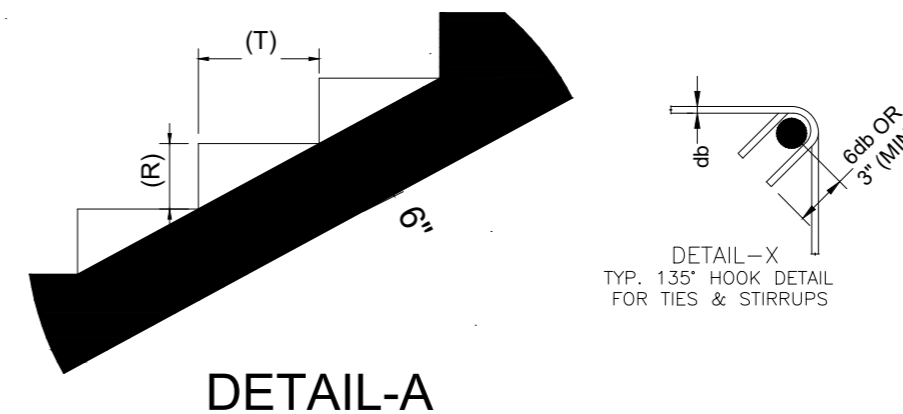
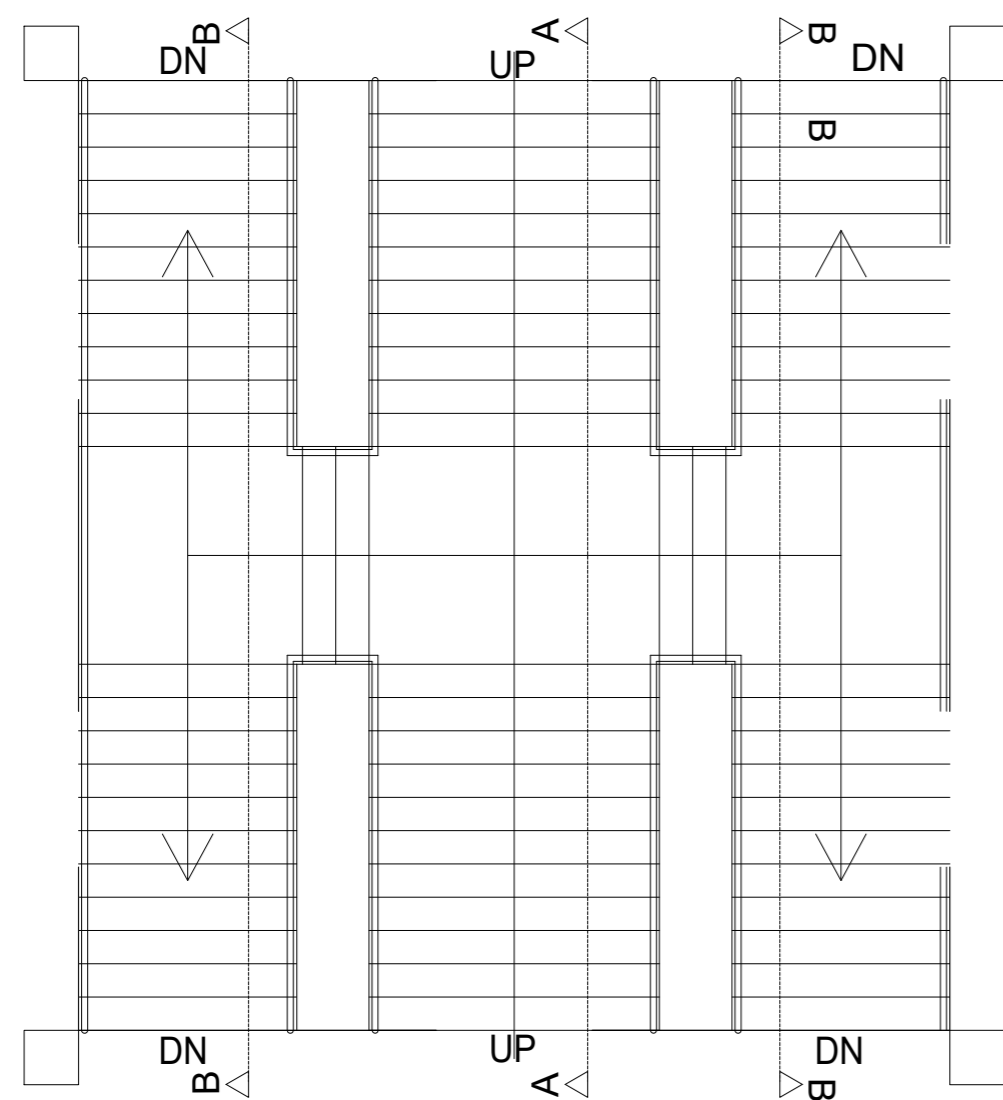
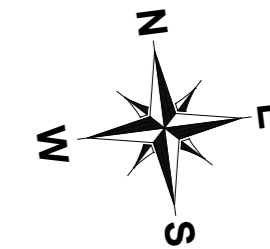
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



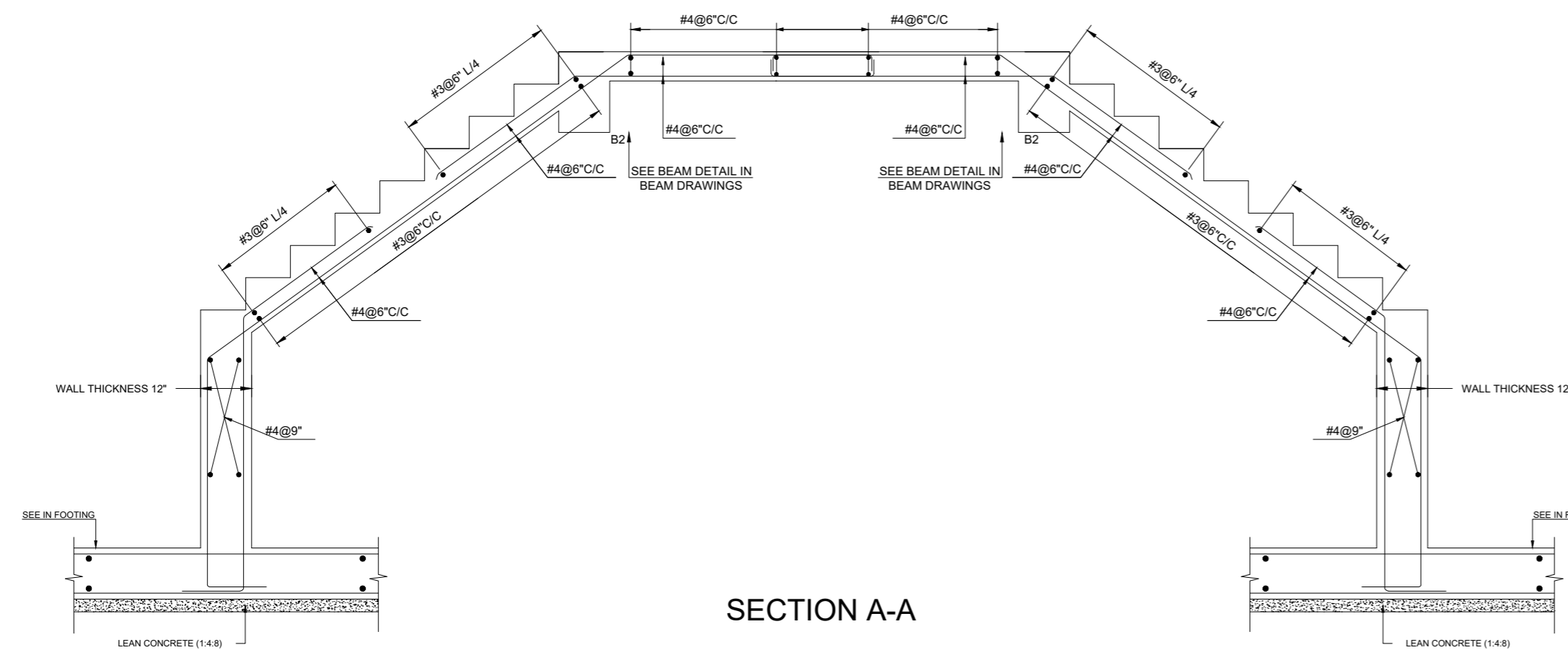
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR NEGATIVE REINFORCEMENT PLAN**

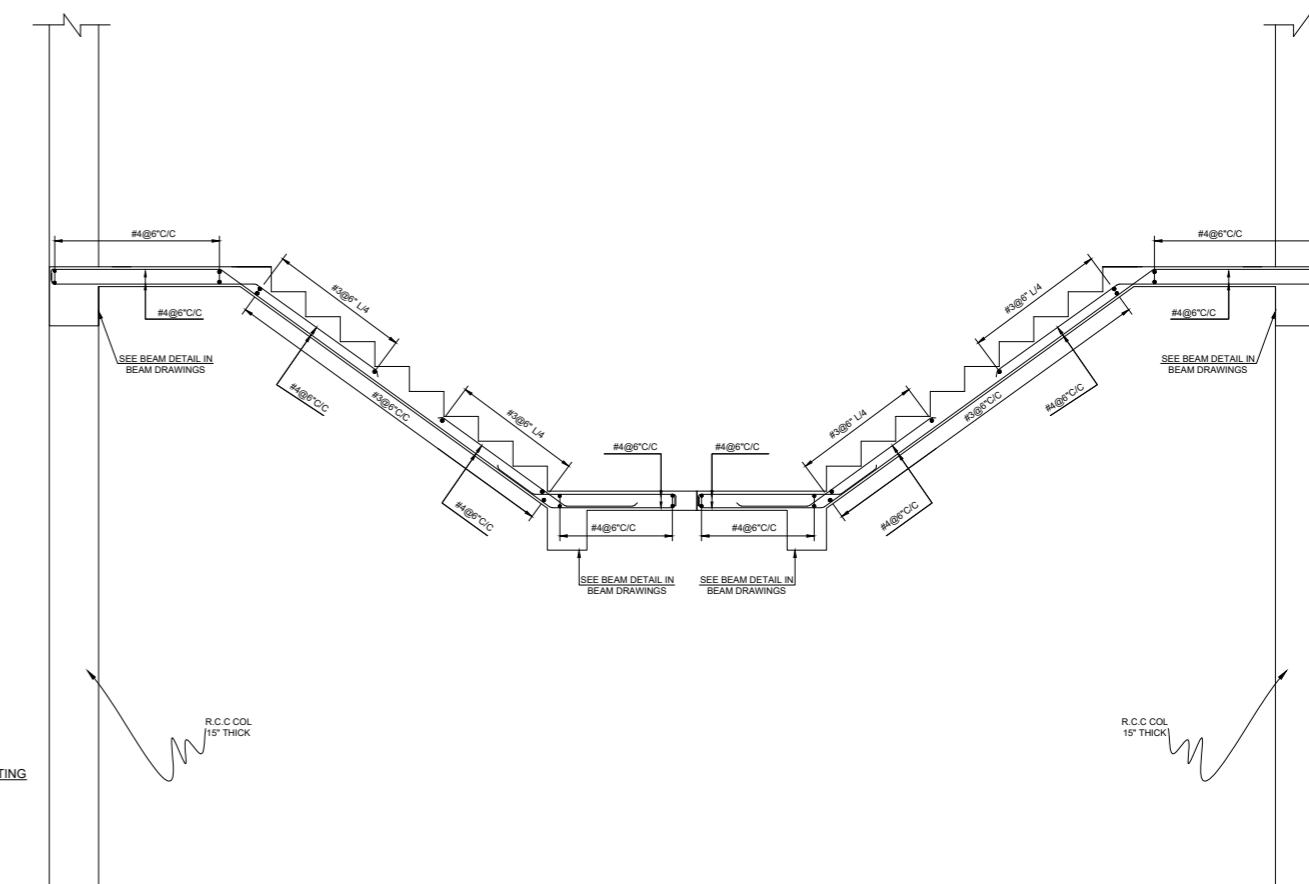
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-24	



DETAIL-A



SECTION A-A



NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

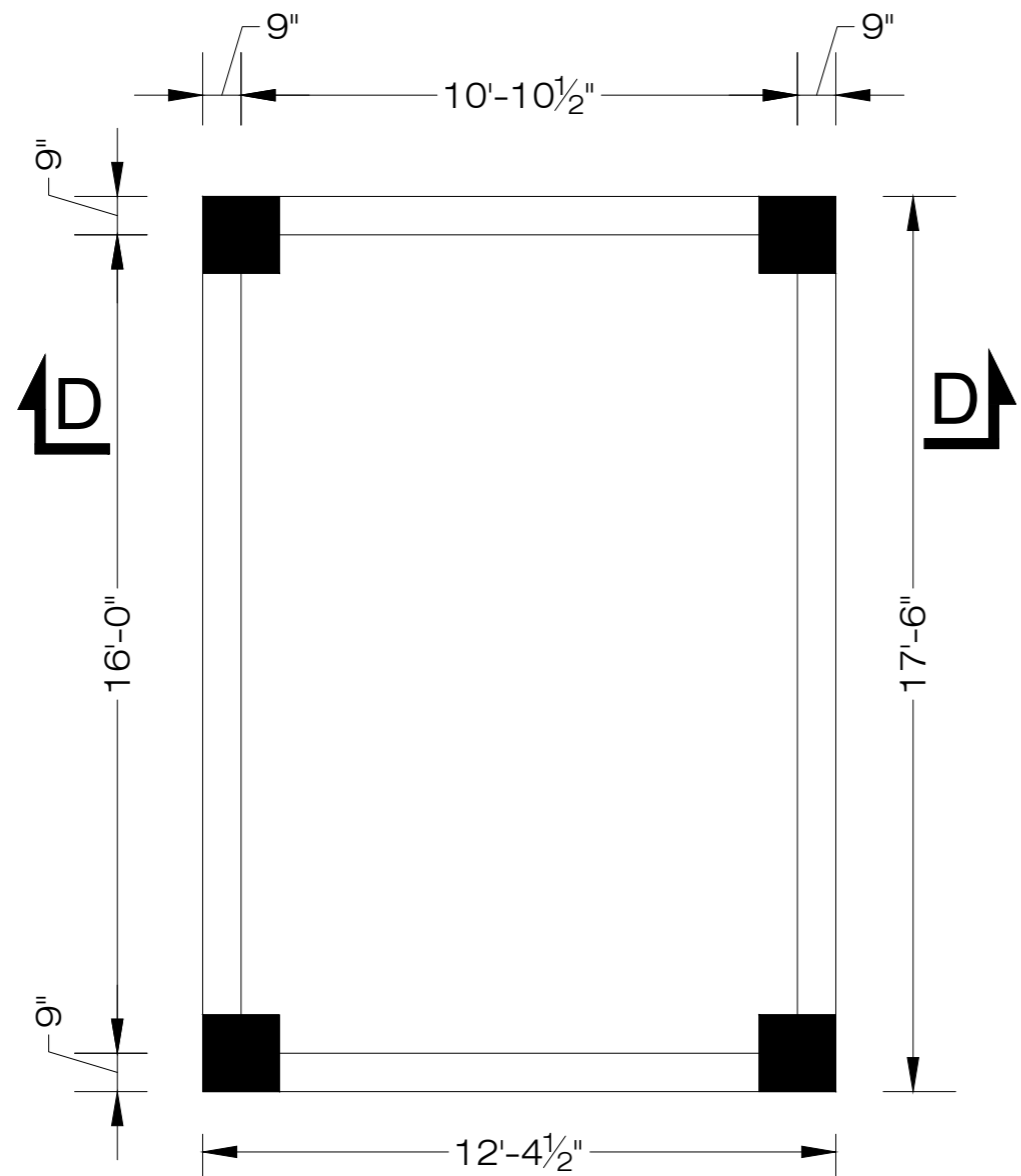
ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



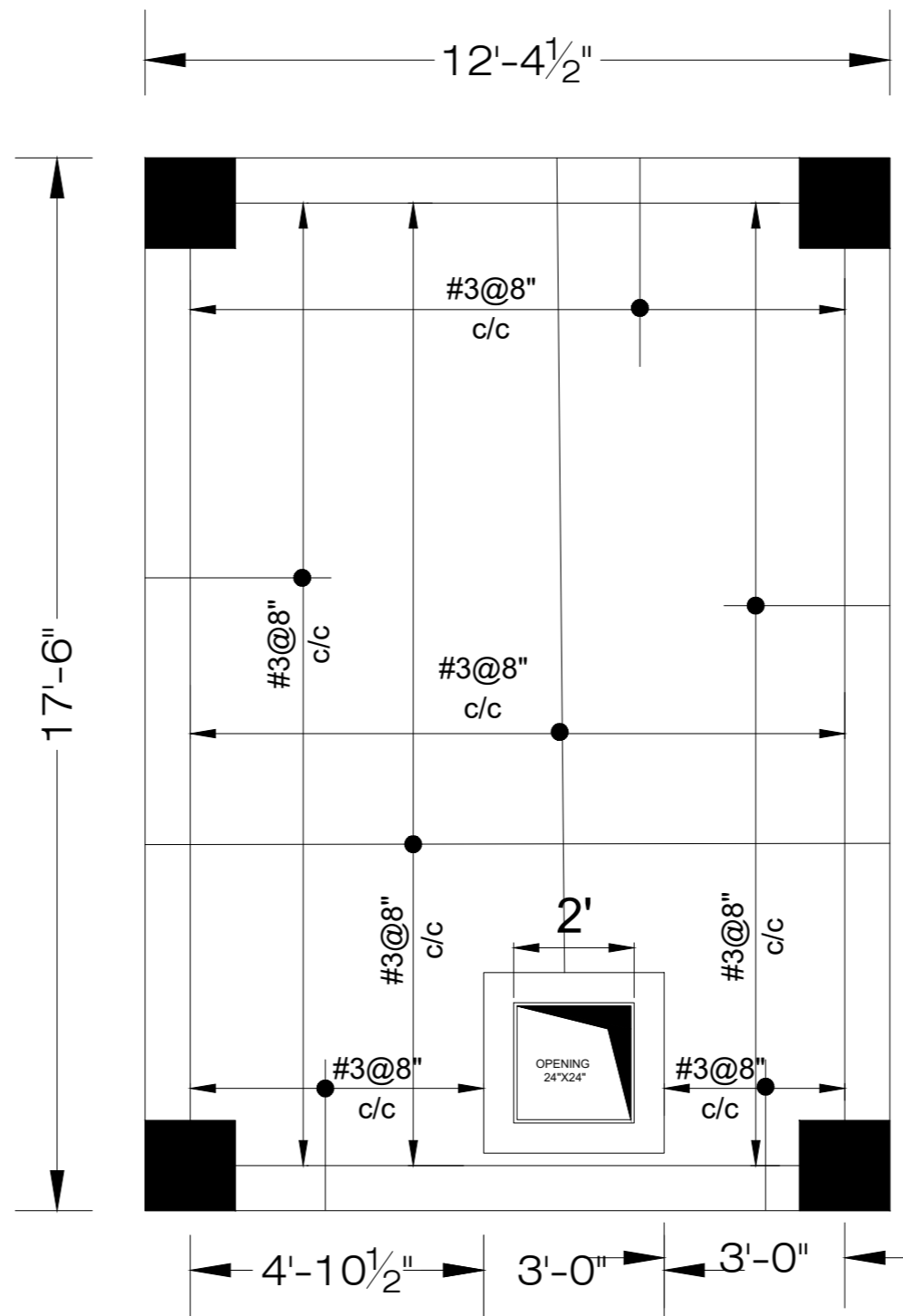
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK STAIR PLANS & SECTION**

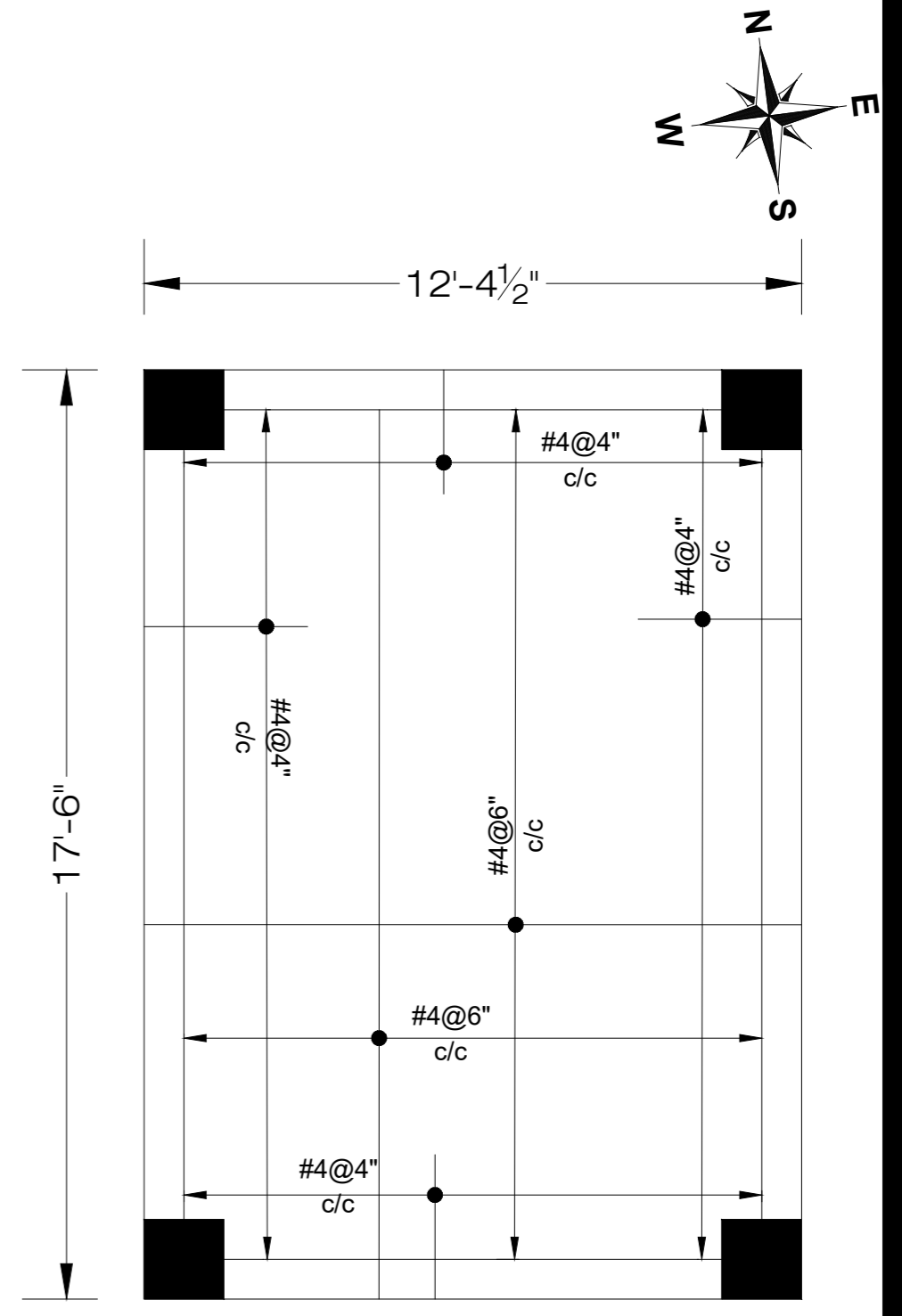
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-25	



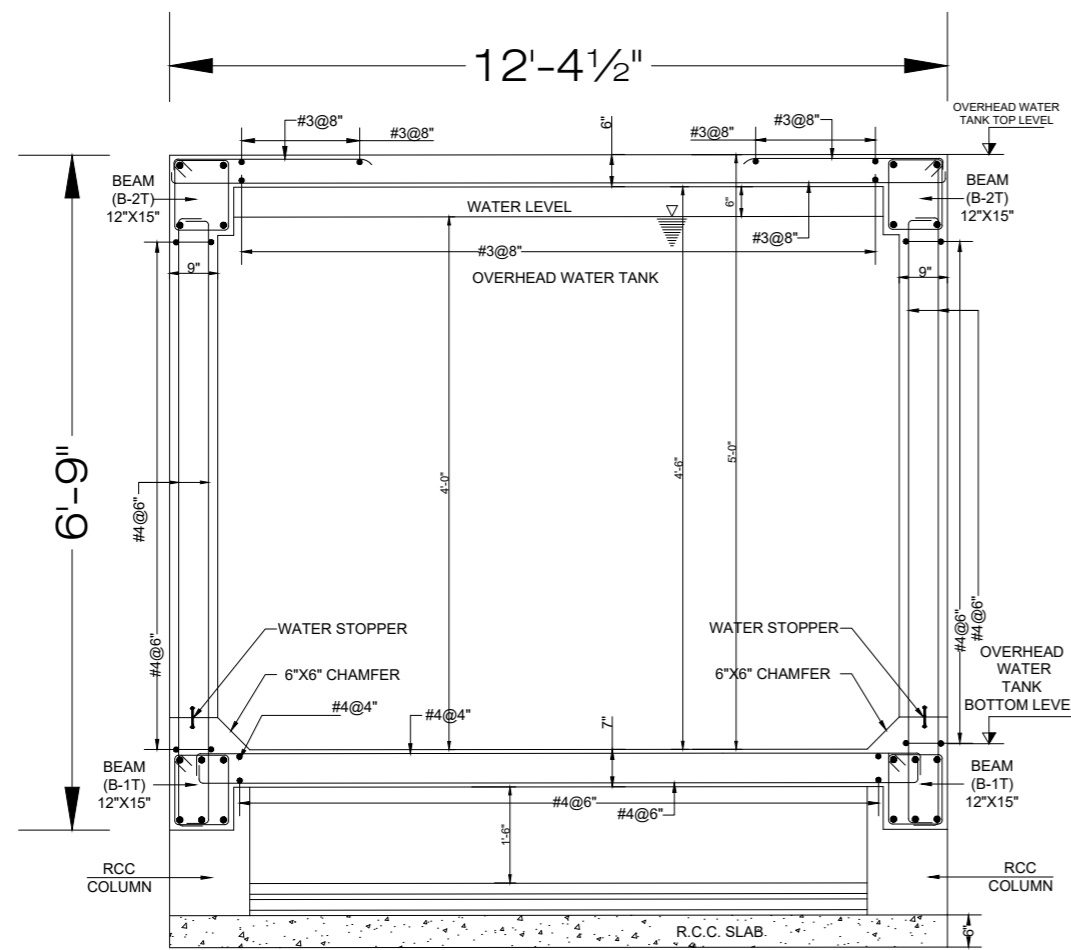
OVER HEAD WATER TANK RCC WALLS
CONCRETE OUTLINE
WALL THICKNESS = 9"



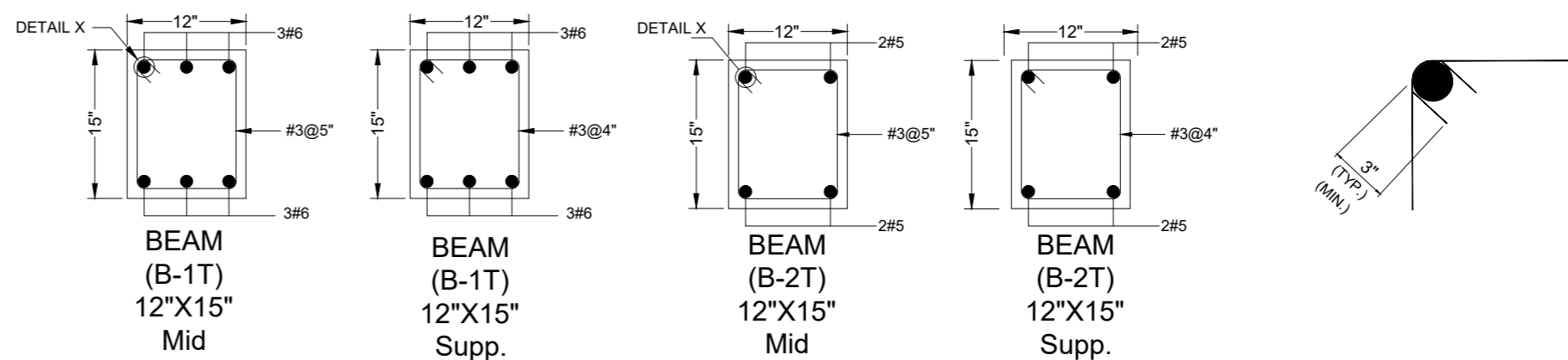
TOP SLAB
OVERHEAD WATER TANK
SLAB THICKNESS = 6"



BOTTOM SLAB
OVERHEAD WATER TANK
SLAB THICKNESS = 7"



SECTION D-D
OVERHEAD WATER TANK



NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

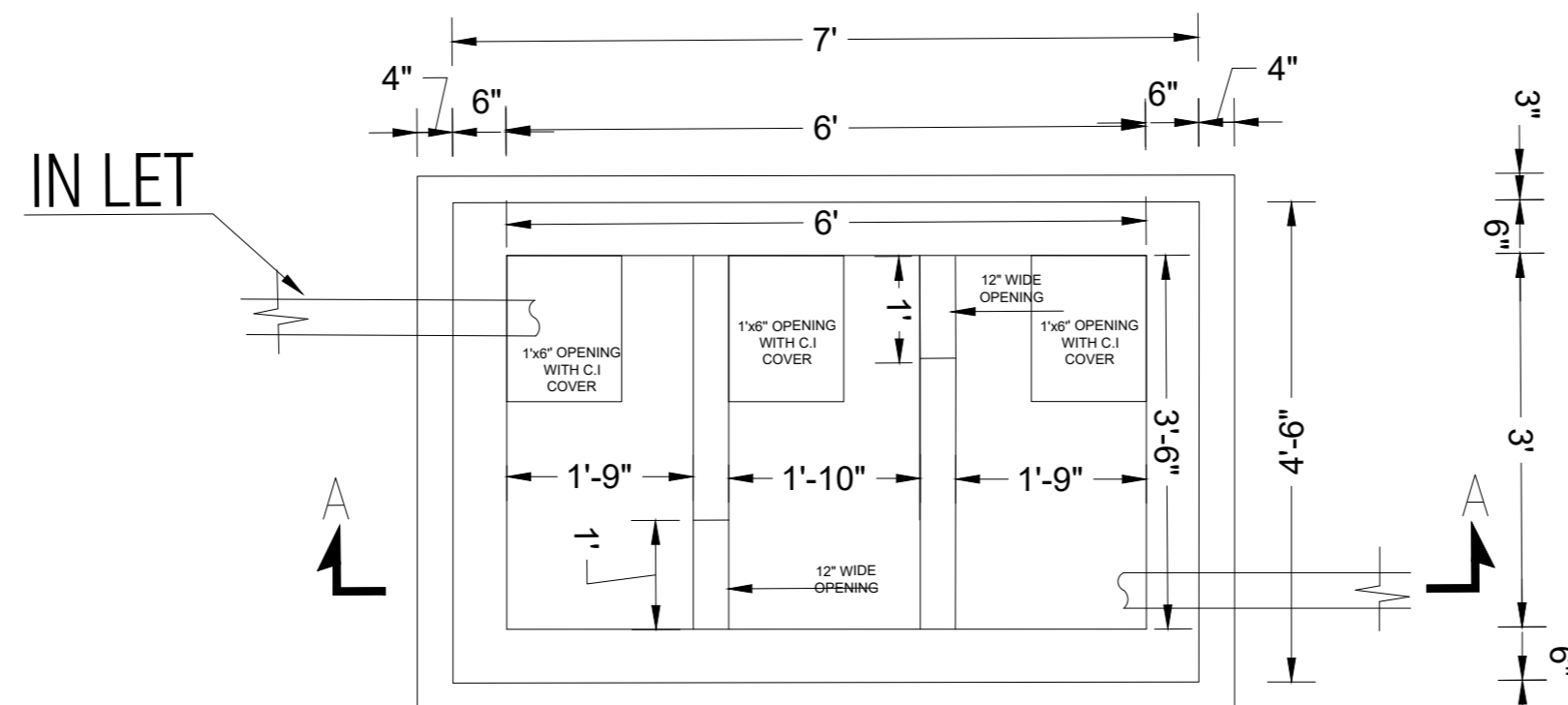
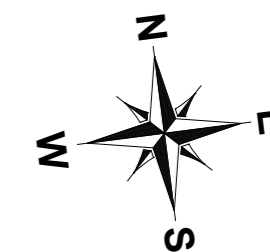
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



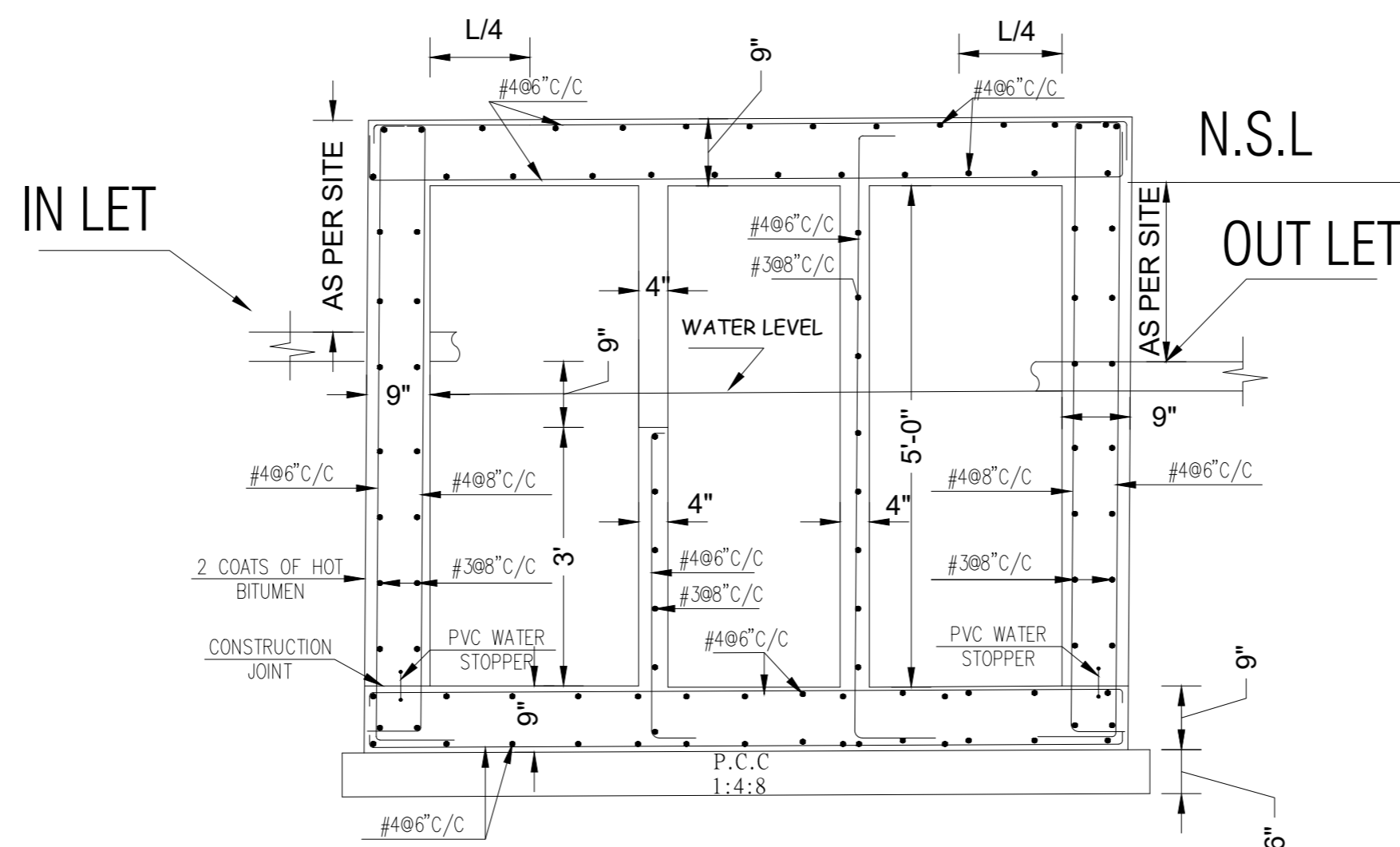
NEW VISION ENGINEERING CONSULTANT
Head Office: Office No. B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
Ph: +92-51-4848375, Fax: +92-51-4848375
Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK O.H.W.T**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG. ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-26	



SEPTIC PLAN



SECTION A-A
SEPTIC TANK

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

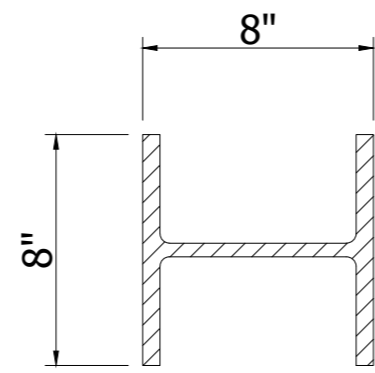
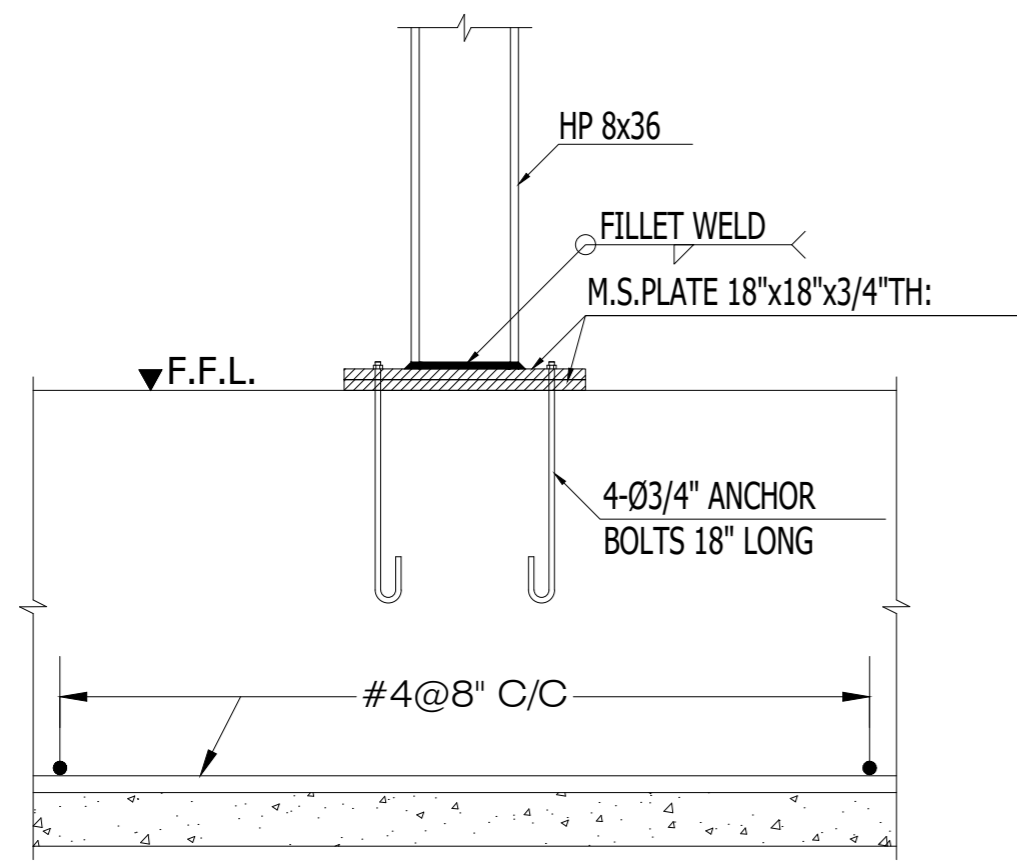
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



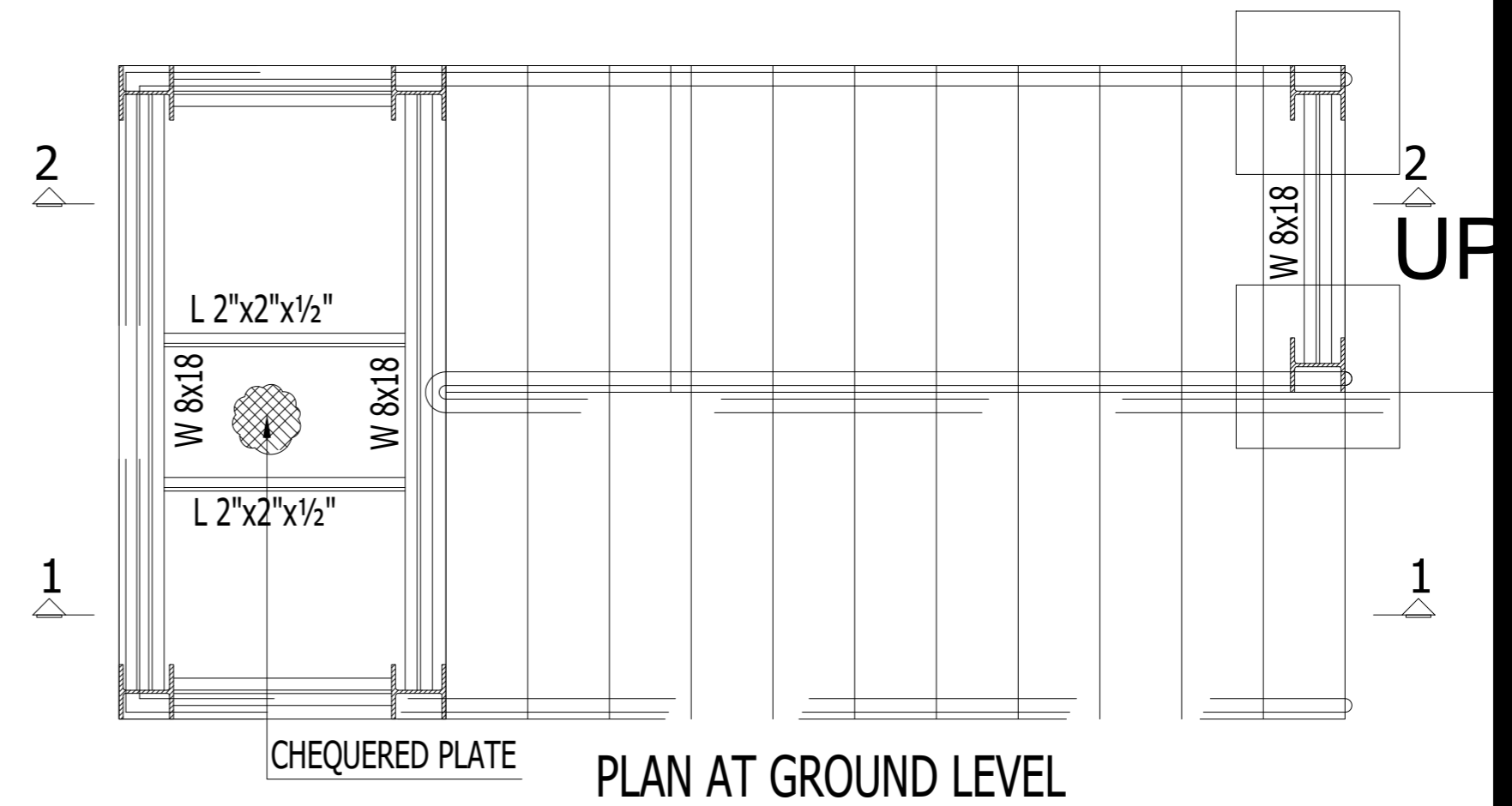
NEW VISION ENGINEERING CONSULTANT
Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
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Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK SEPTIC TANK DETAIL**

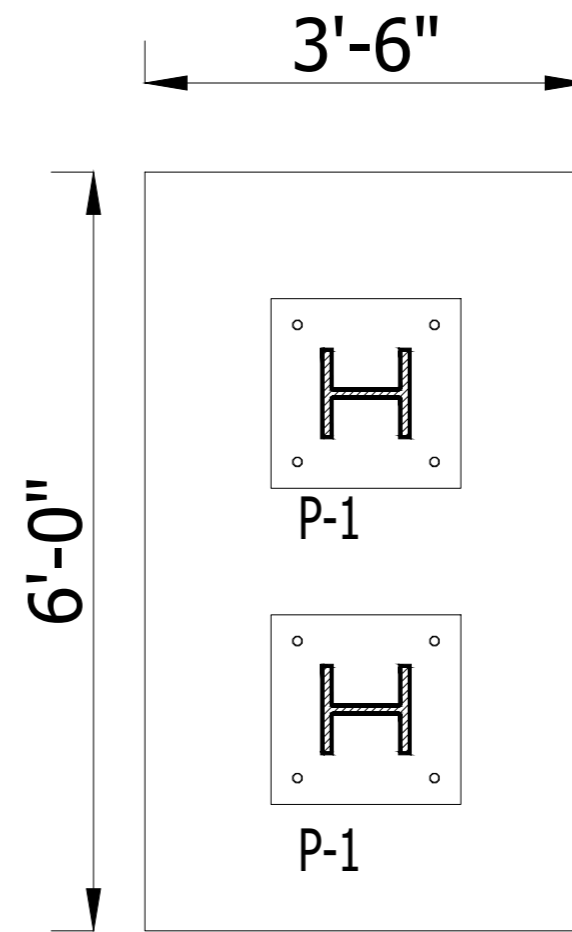
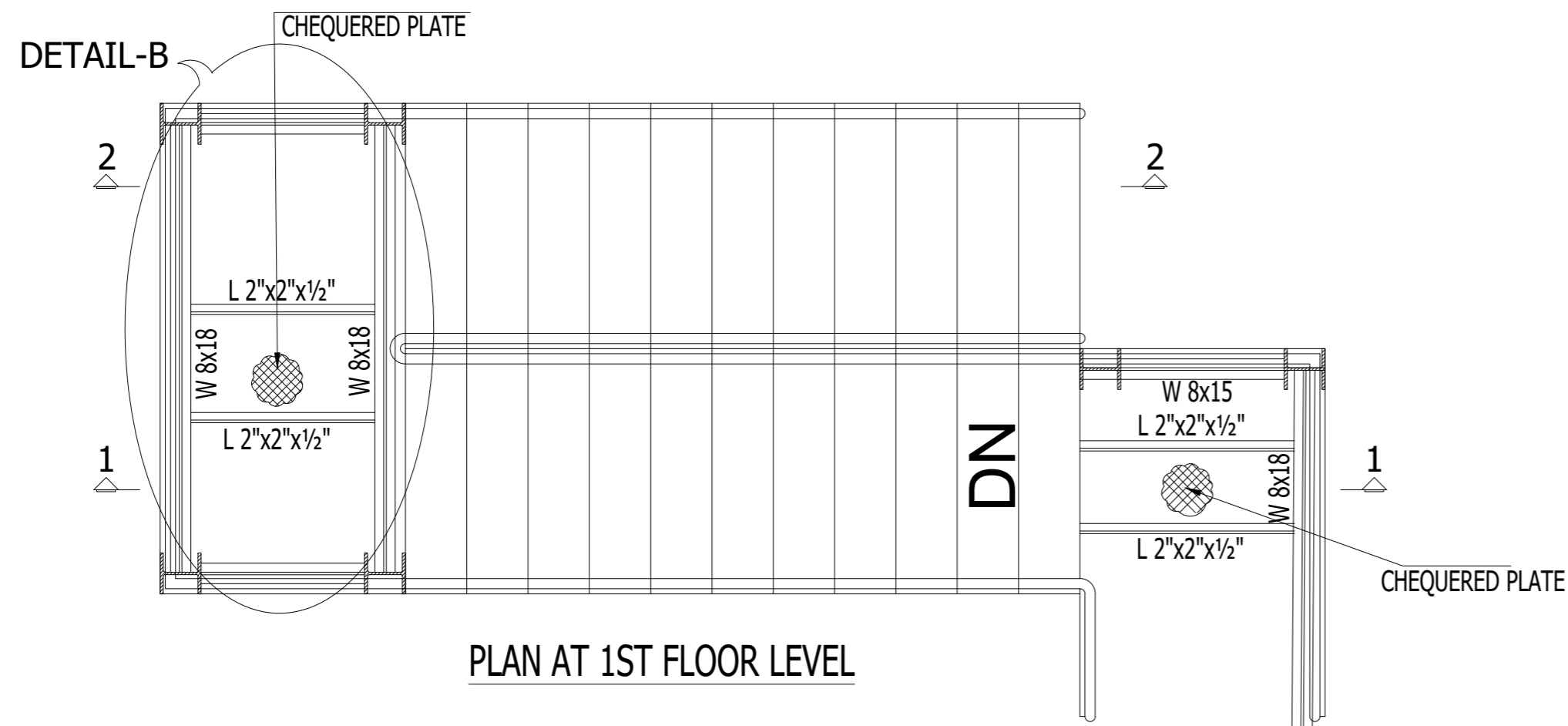
CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
DESIGNED BY: ENG.ZAIN ARSHAD
APPROVED BY: [Signature]
DATE: FEB, 2024
DRAWN BY: MATHEW SIMON
JOB NO. [Blank]
SCALE: N.T.S
DRG. NO. [Blank]
ST-27



HP 8x36
36Lbs/FT



P-1



STAIR FOOTING PLAN

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

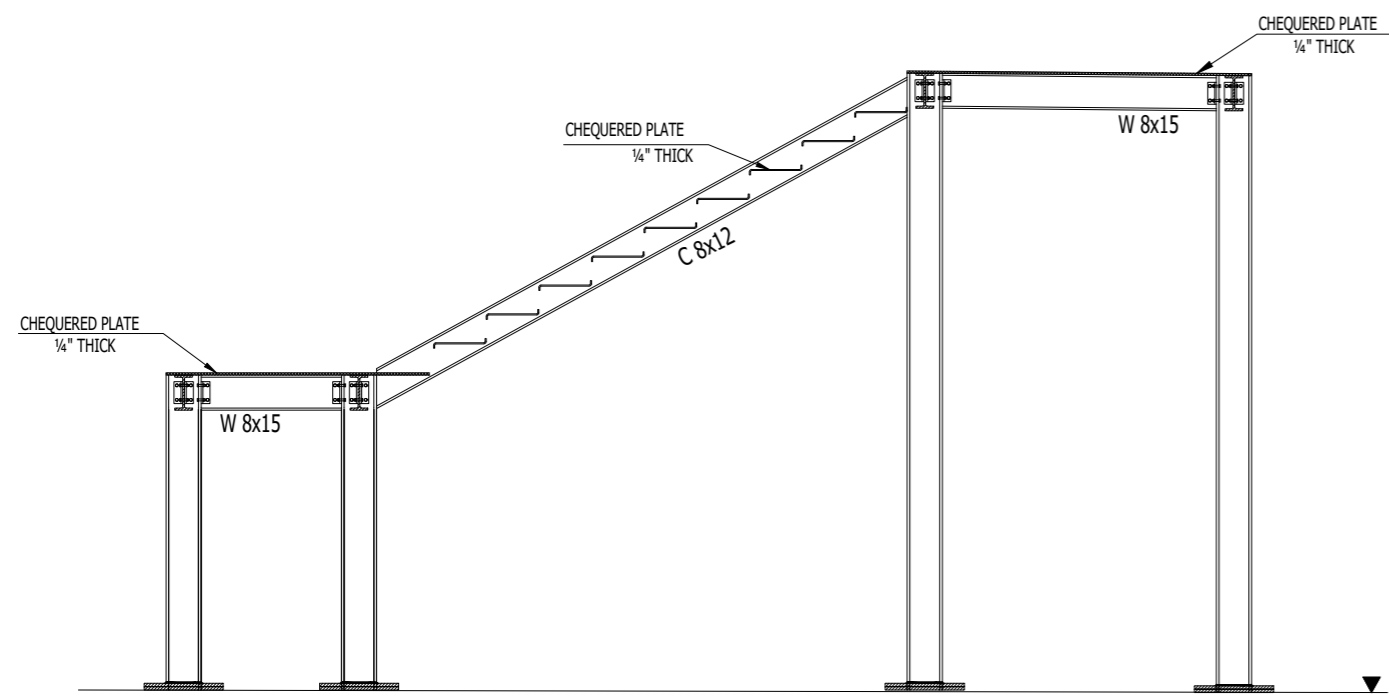
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



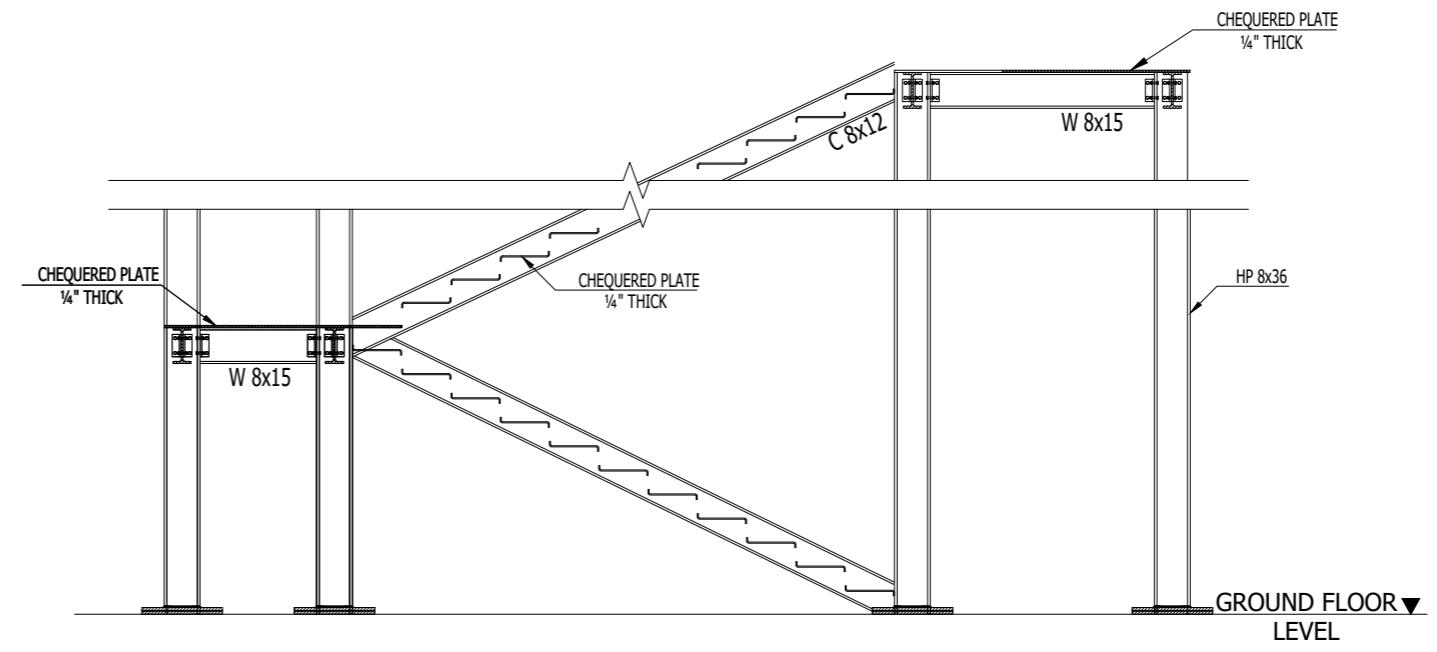
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
TITLE: **LUMHS LIBRARY BLOCK EMERGENCY STEEL STAIR PLAN & DETAIL**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-28	



SECTION 1-1



SECTION 2-2

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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



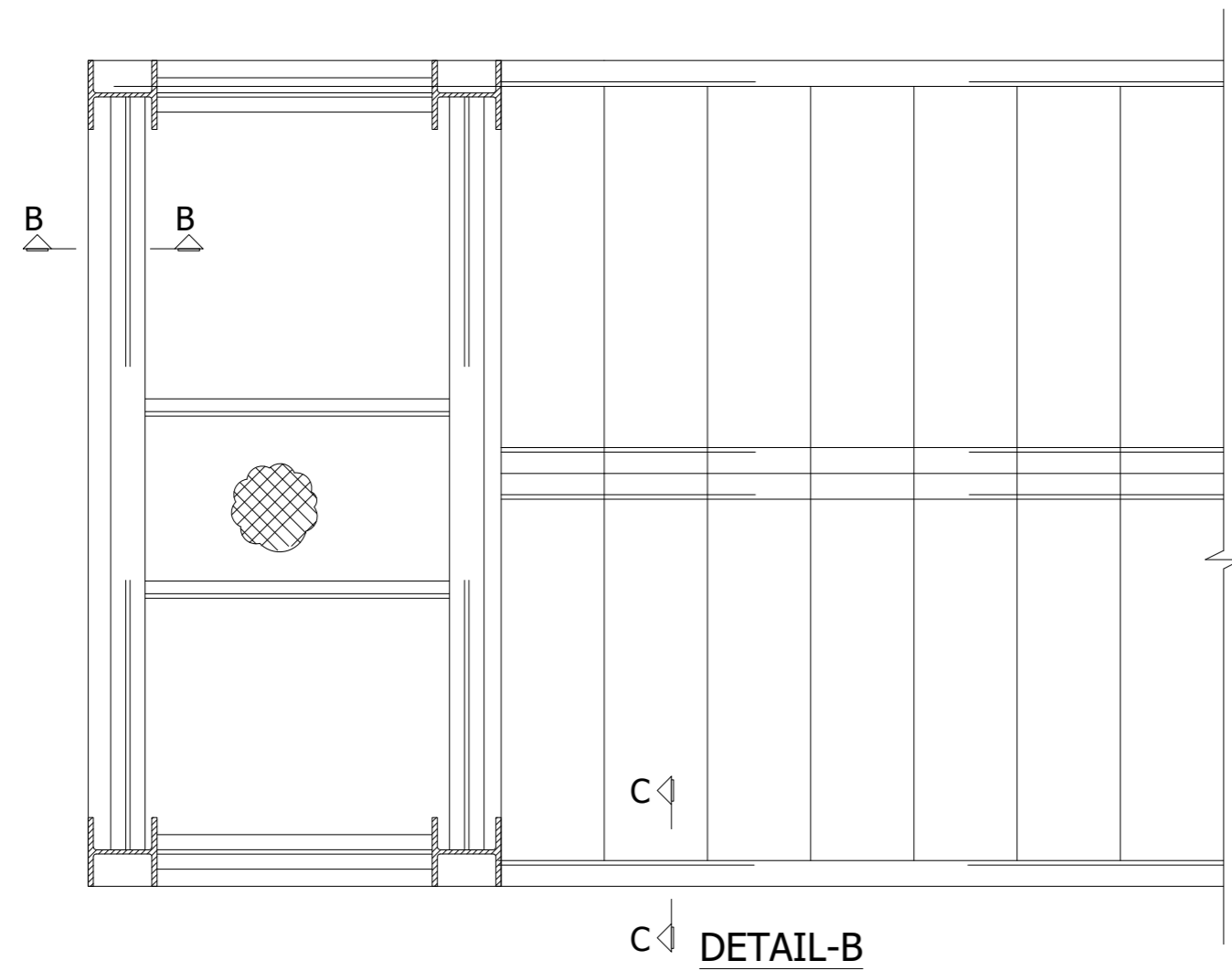
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

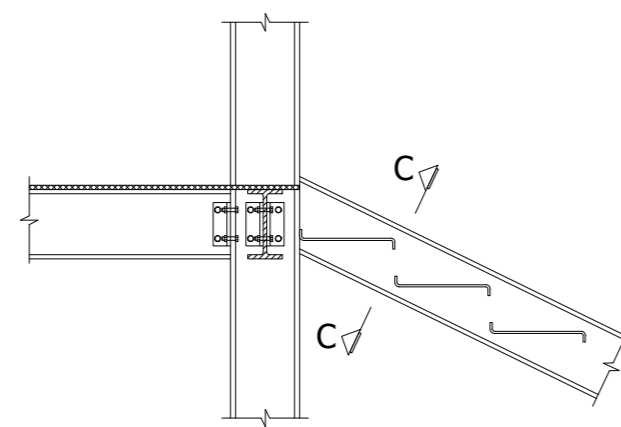
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CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

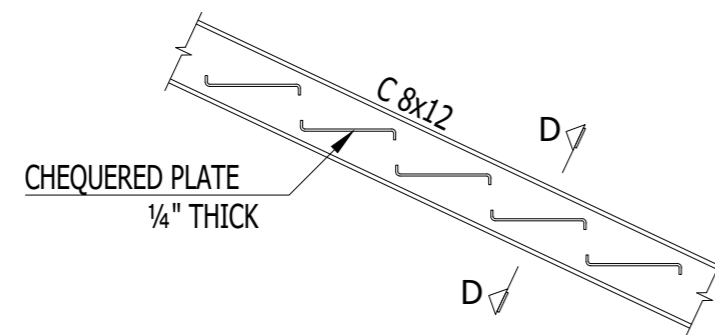
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-29	



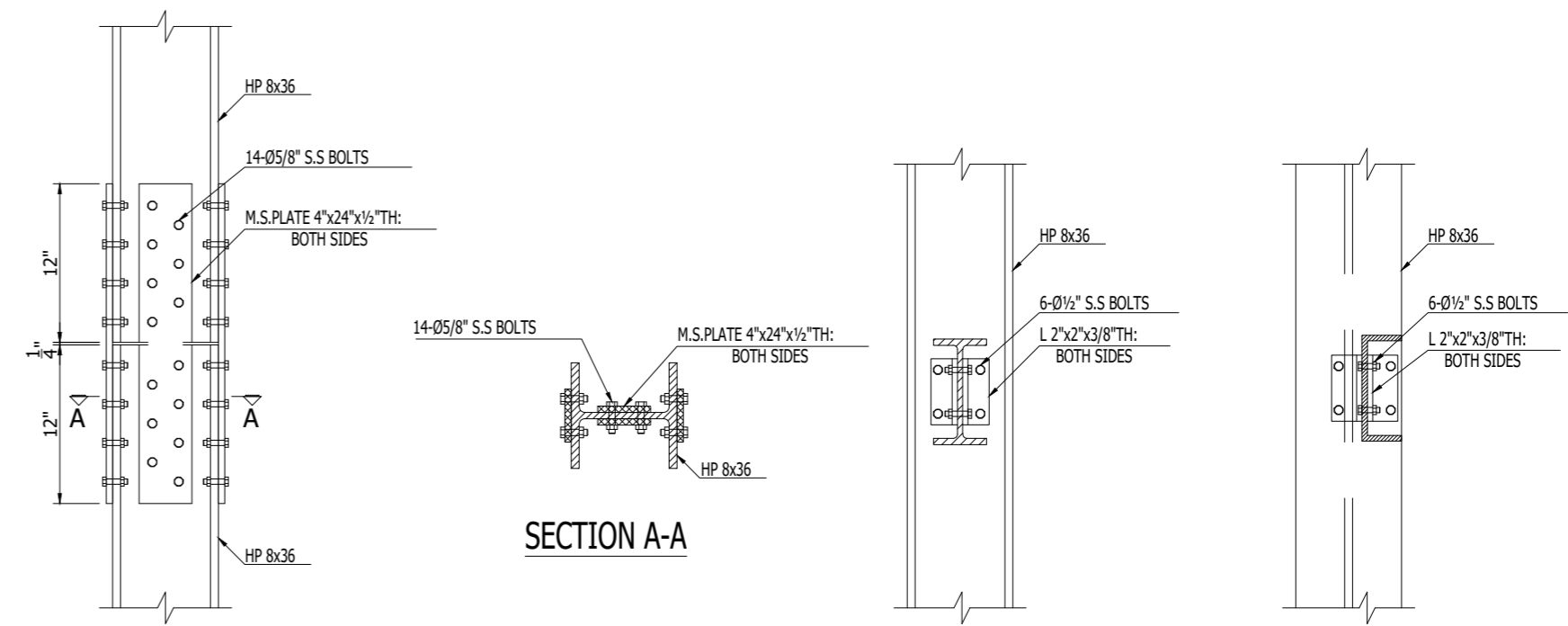
C C **DETAIL-B**



DETAIL-C



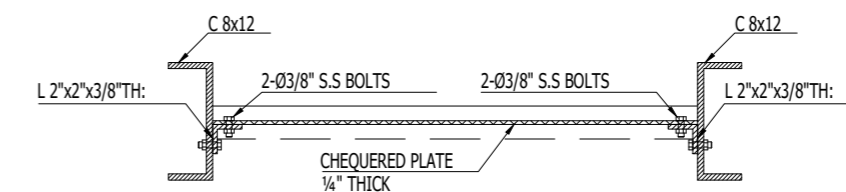
DETAIL-D



STEEL COLUMN JOINT DETAIL-A TYP.

SECTION B-B

SECTION C-C



SECTION D-D

NOTE:
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

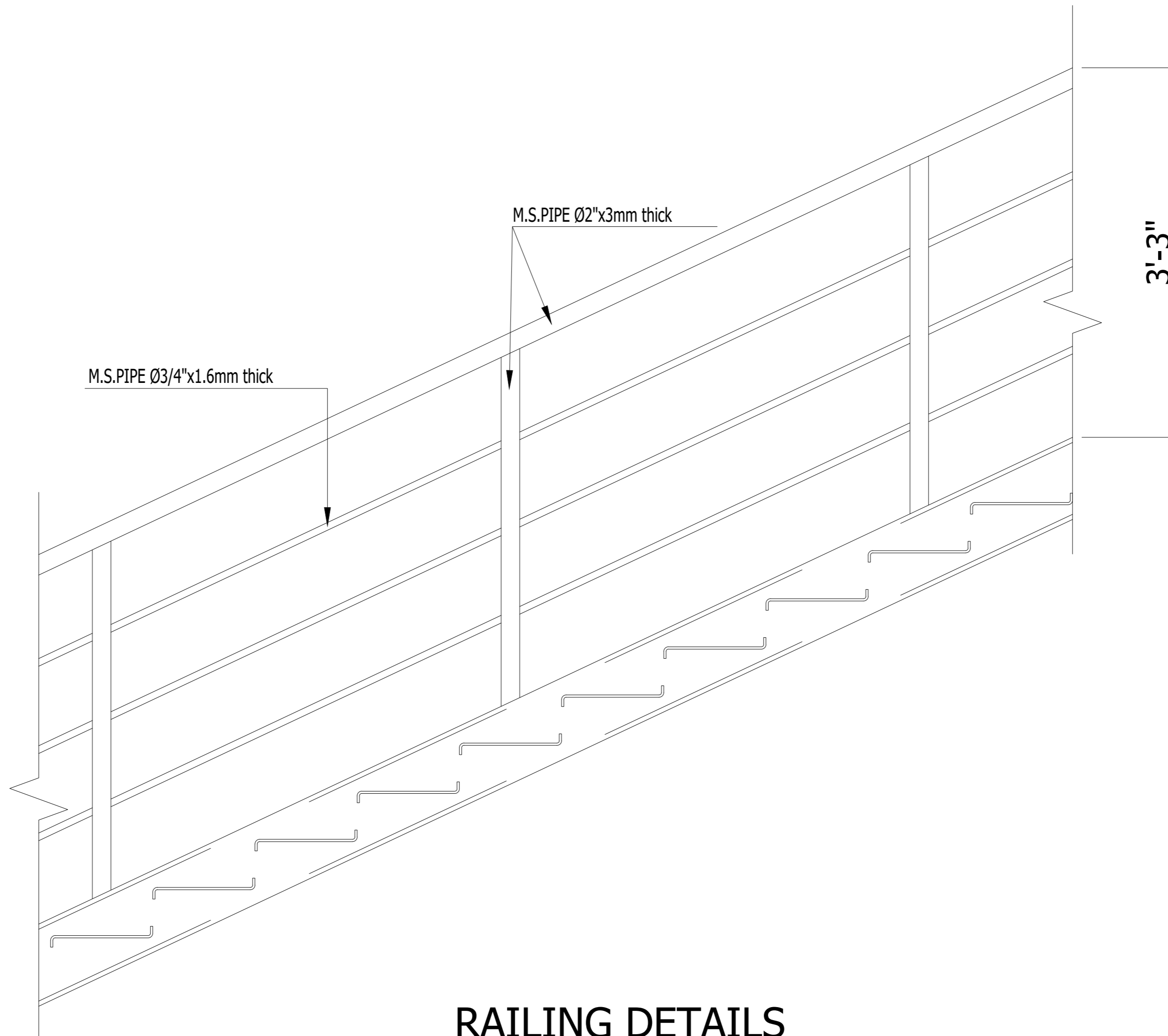
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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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: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK EMERGENCY STEEL STAIR MISC.DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENG.ZAIN ARSHAD
 APPROVED BY: [Signature]
 DATE: FEB, 2024
 DRAWN BY: MATHEW SIMON
 JOB NO.: [Blank]
 SCALE: N.T.S.
 DRG. NO.: ST-30



RAILING DETAILS

NOTE:
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK EMERGENCY STAIR RAILING DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG.ZAIN ARSHAD APPROVED BY: DATE: FEB, 2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

DRG. NO. ST-31

ELECTRICAL

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
ELECTRICAL DRAWINGS		
1	LIST OF DRAWING	EL-00
2	GENERAL NOTES	EL-01
3	FIRE ALARM TYPICAL DETAIL	EL-02
4	MOUNTING HEIGHT OF FIXTURE DETAIL DETAIL	EL-03
5	LEGEND AND SYMBOLS	EL-04
6	EARTHING DETAIL	EL-05
7	SLD OF DISTRIBUTION BOARDS	EL-06
8	GROUND FLOOR LIGHTING LAYOUT	EL-07
9	GROUND FLOOR LIGHTING LAYOUT	EL-08
10	GROUND FLOOR POWER LAYOUT	EL-09
11	FIRST FLOOR POWER LAYOUT	EL-10
12	GROUND FLOOR FIRE ALARM SYSTEM LAYOUT	EL-11
13	FIRST FLOOR FIRE ALARM SYSTEM LAYOUT	EL-12
14	GROUND FLOOR CCTV LAYOUT	EL-13
15	FIRST FLOOR CCTV LAYOUT	EL-14

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
 Ph: +92-42-37250130

PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LUMHS LIBRARY BLOCK LIST OF DRAWING	DESIGNED BY: ENGR. SHADAB
CAD filename:	APPROVED BY: A.S
	DATE : JAN, 2024
	DRAWN BY: ENGR. AHMAD
	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 UP TO 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



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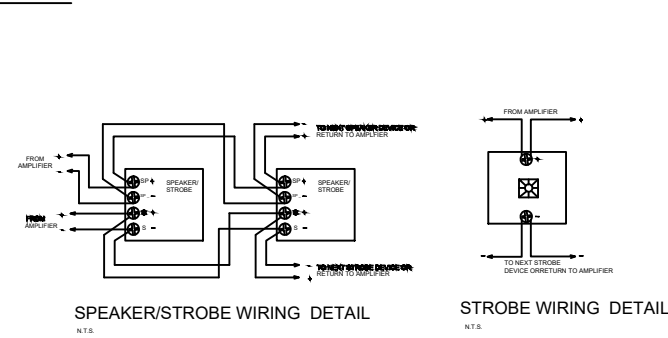
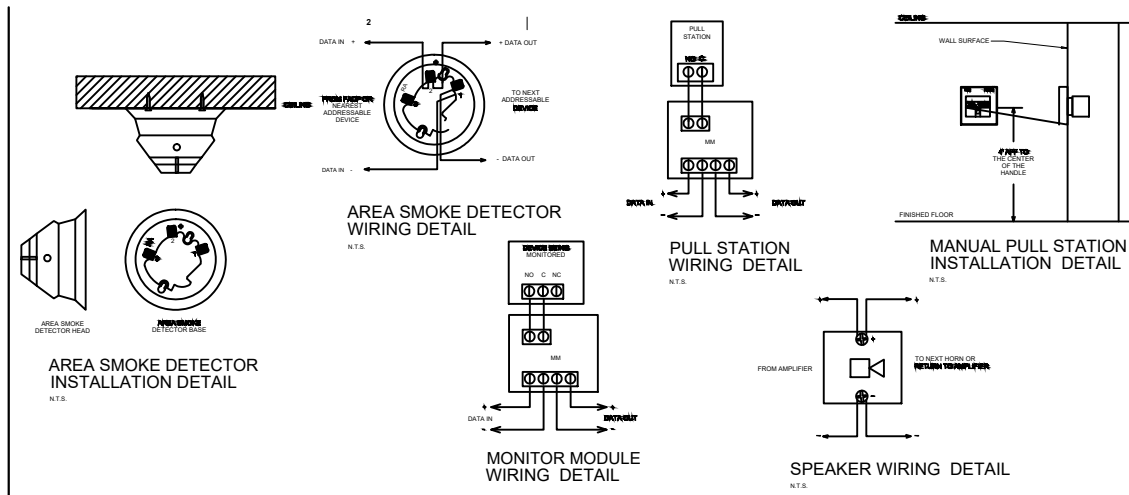
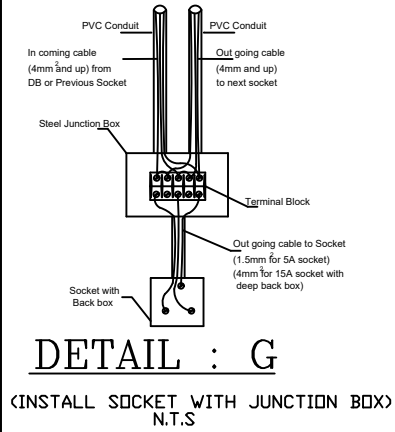
Head Office: Office No.B-6 Second Floor Masood Arcade
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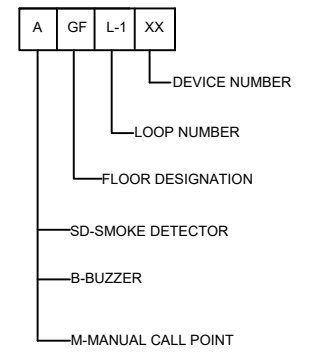
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UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE:	DESIGNED BY:
LUMHS LIBRARY BLOCK	ENGR. SHADAB
GENERAL NOTES	APPROVED BY:
CAD filename:	A.S
	DATE: JAN, 2024
	DRAWN BY:
	ENGR. AHMAD
	JOB NO.
	SCALE:
	N.T.S
	DRG. NO.
	EL-01

DETAIL : A-2(a)

FIRE ALARM AND PUBLIC ADDRESS SYSTEM COMPONENT CONNECTION DETAIL.



DETAIL : H



NOTES:
Location of FACP & Integration with existing Fire Alarm System if existed to be decided as per site requirements & as per approval of the Client's Representative.

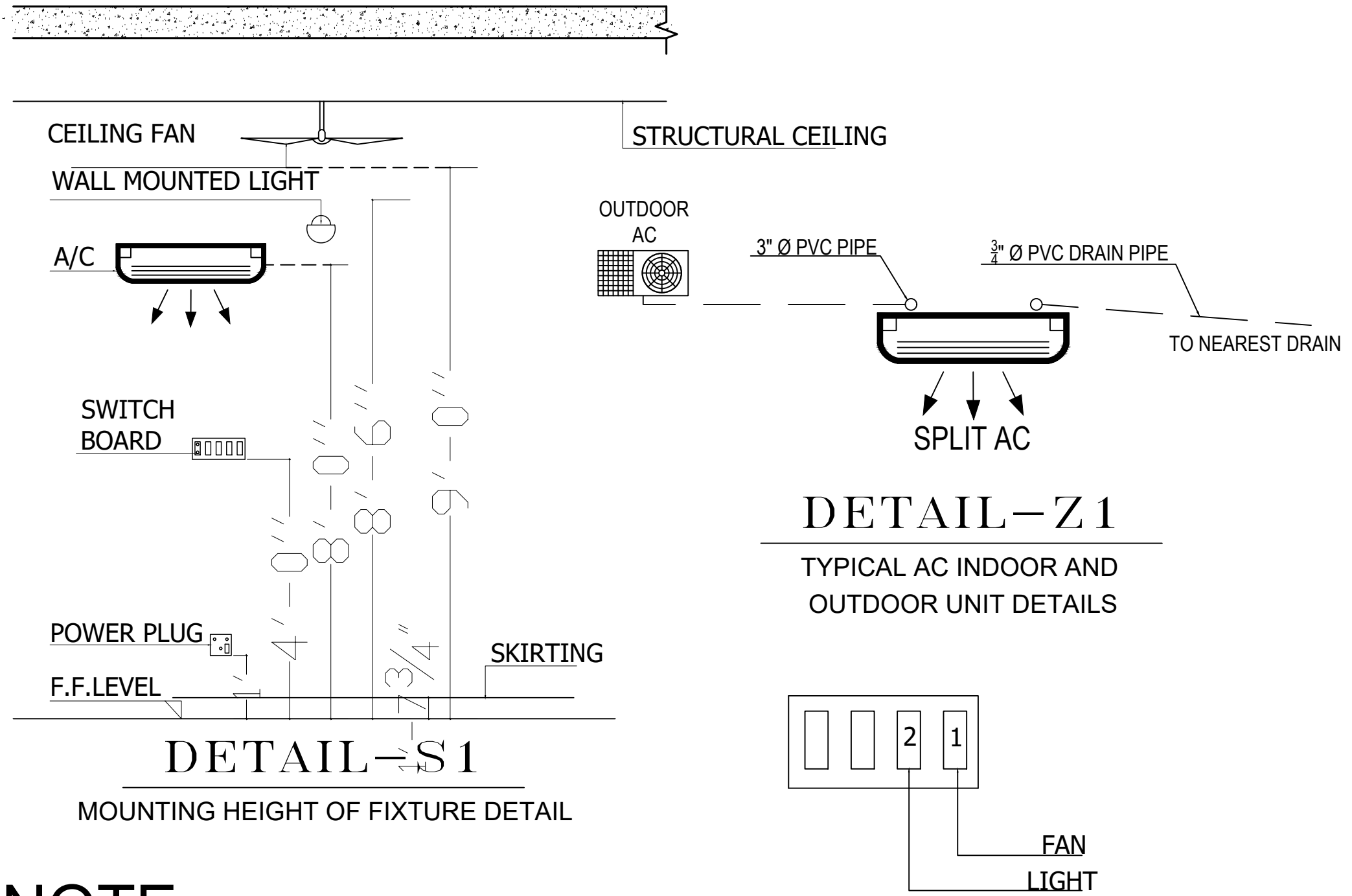
ADDITION & REVISION					
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Head Office: Office No.B-6 Second Floor Masood Arcade IJP Road Islamabad.
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Email: newvisionec@yahoo.com
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
Ph: +92-42-37250130

PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LUMHS LIBRARY BLOCK FIRE ALAM TYPICAL DETAIL
CAD filename:

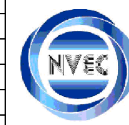
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
DESIGNED BY: ENGR. SHADAB
APPROVED BY: A.S
DATE: JAN, 2024
DRAWN BY: ENGR. AHMAD
JOB NO.:
SCALE: N.T.S
DRG. NO.: EL-02



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

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.
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 CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
 TITLE: LUMHS LIBRARY BLOCK MOUNTING HEIGHT OF FIXTURE DETAIL
 CAD filename:

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE : JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-03	

LIGHTING AND POWER

S.NO	SYMBOLS	DESCRIPTION
1		24 WATT LED/SMD LIGHT FIXTURE OR EQUIVALENT
2		18 WATT LED LIGHT FIXTURE SURFACE/RECESSED MOUNTED OR EQUIVALENT.
3		12 WATT LED LIGHT FIXTURE SURFACE/RECESSED MOUNTED, IP-44 RATED OR EQUIVALENT.
4		10 " DIA EXHAUST FAN WITH PLASTIC BODY,FAN BLADES AND LOUVERS
5		48" OR 56" DIA CEILING FAN
6		INDICATES GANG TYPE SWITCH 10 AMPS, INDICATES NUMBER OF SWITCHES ON SWITCH PLATE
7		INDICATES 3 PIN COMBINED SWITCH SOCKET 10-13 AMPS, ON PLASTIC BACK BOX
8		COMPUTER SOCKET OUTLET RJ45
9		INDICATES ROUND PIN 15 AMPS SOCKET, ON PLASTIC BACK BOX
10		20 Watt Flood Light
11		DISTRIBUTION BOARD(DB-XXX) XXX-DENOTES NAME
12		A.C 40 TP AMPS SWITCH & Unit (4 Ton)
13		A.C 20 SP AMPS SWITCH & unit(2 Ton)
14		Camera
15		Data cabinet

FIRE ALARM SYSTEM

S.NO	SYMBOLS	DESCRIPTION
1		FIRE ALARM CONTROL PANEL
2		SMOKE DETECTOR NON IONISATION TYPE.
3		MANUAL STATION & ALARM SOUNDER

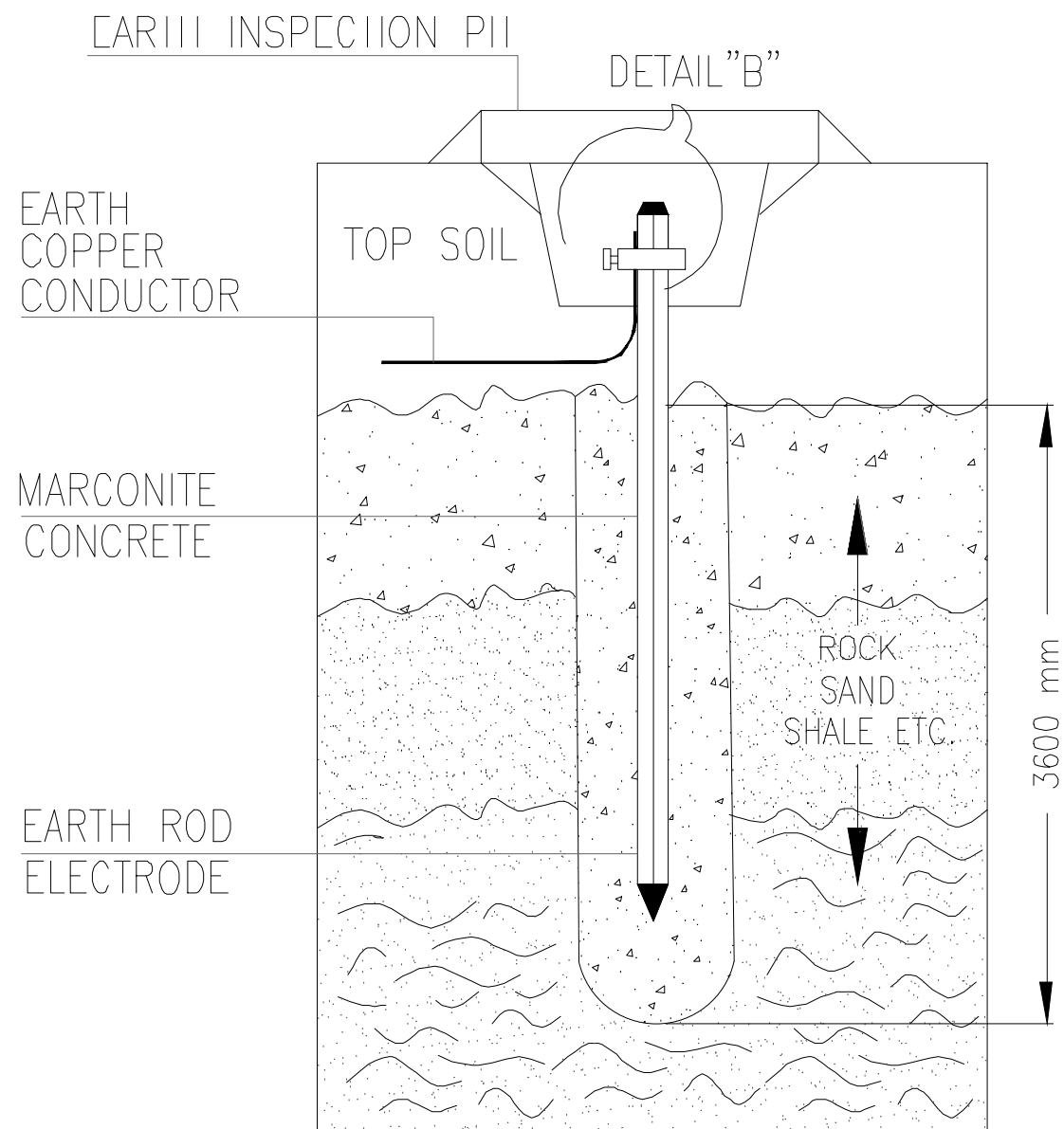
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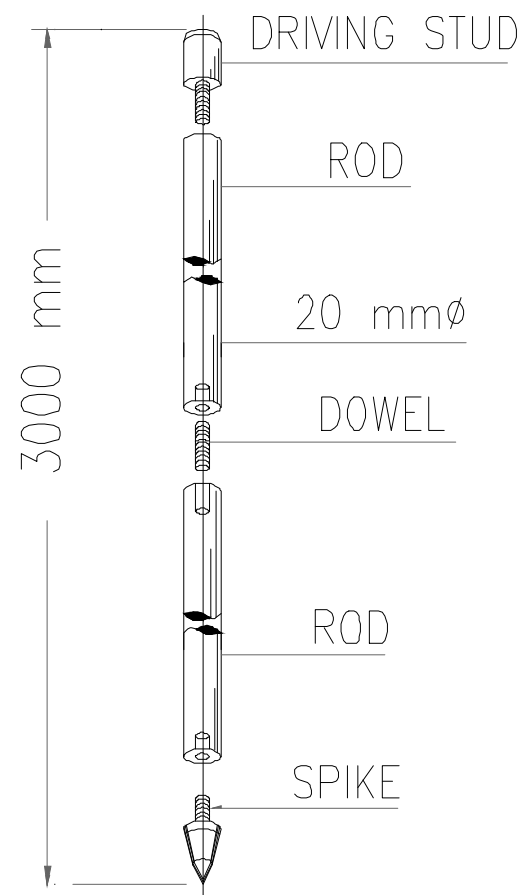
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 CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK LEGEND AND SYMBOLS**
 CAD filename:

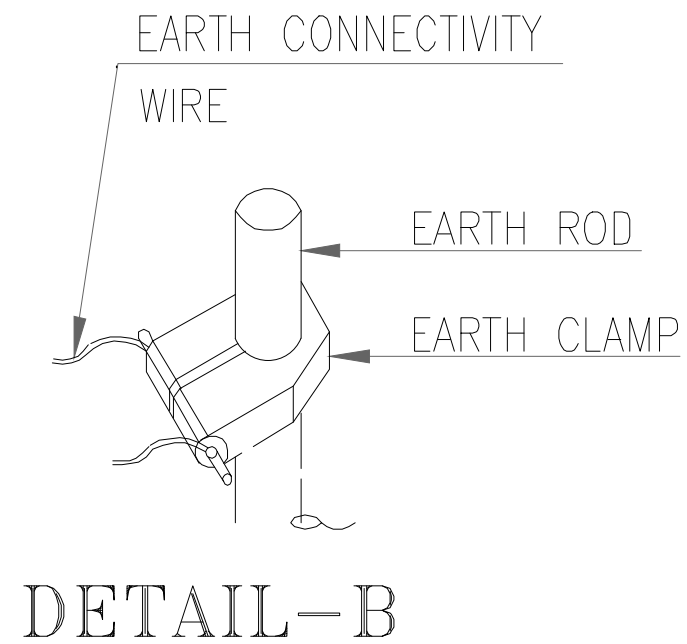
DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE : JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.		EL-04



EARTH ROD
INSTALLATION
DETAIL



EARTH
ELECTRODE
COPPER
ROD



DETAIL-B

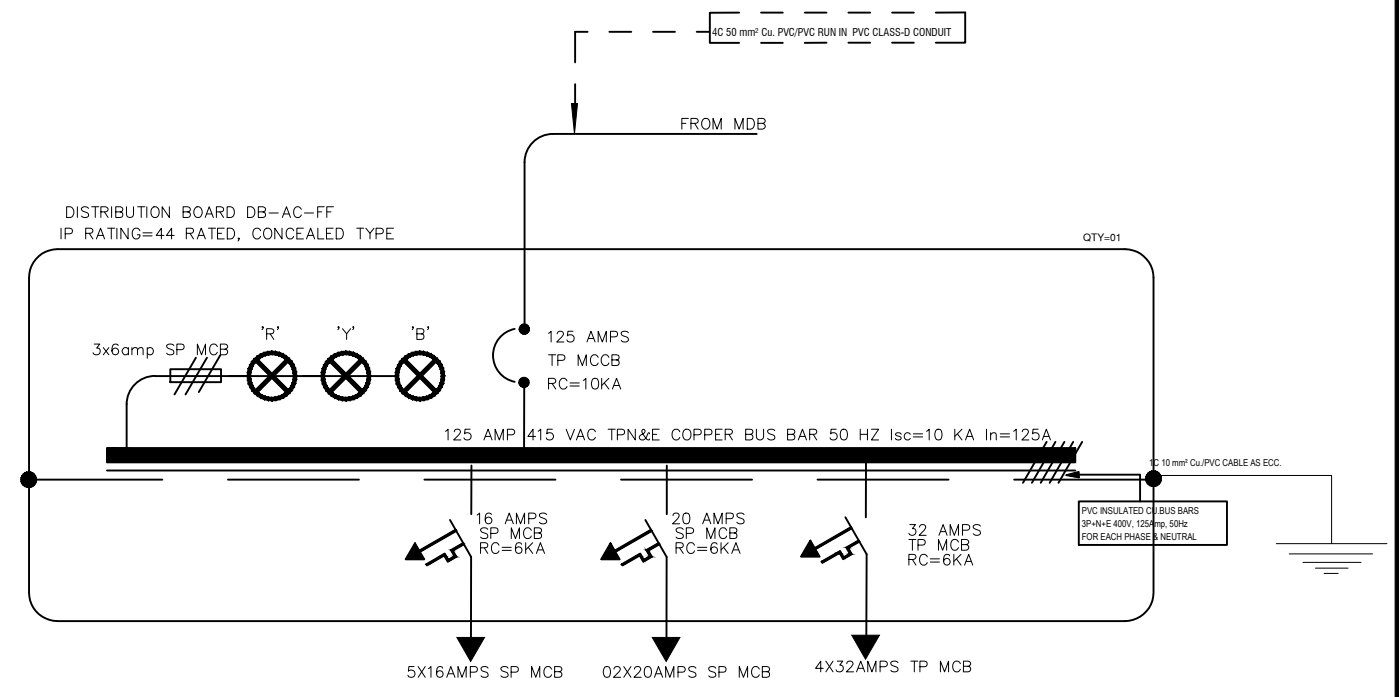
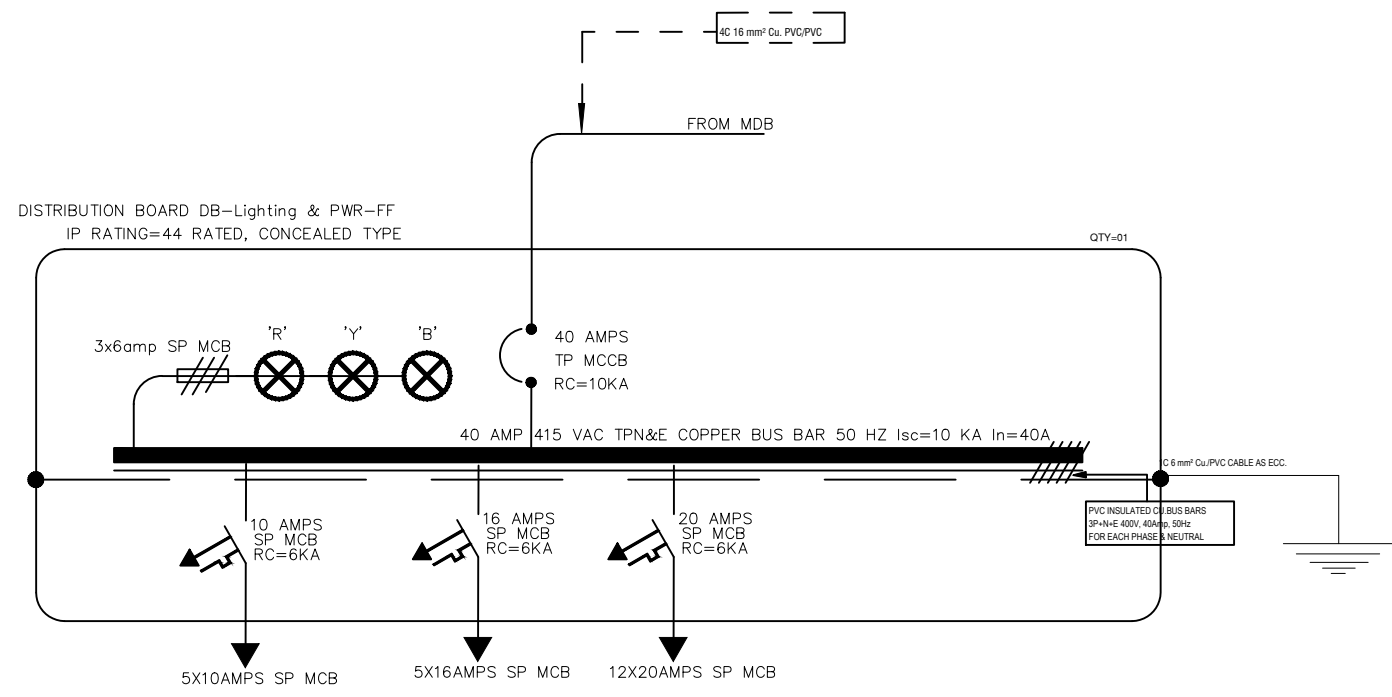
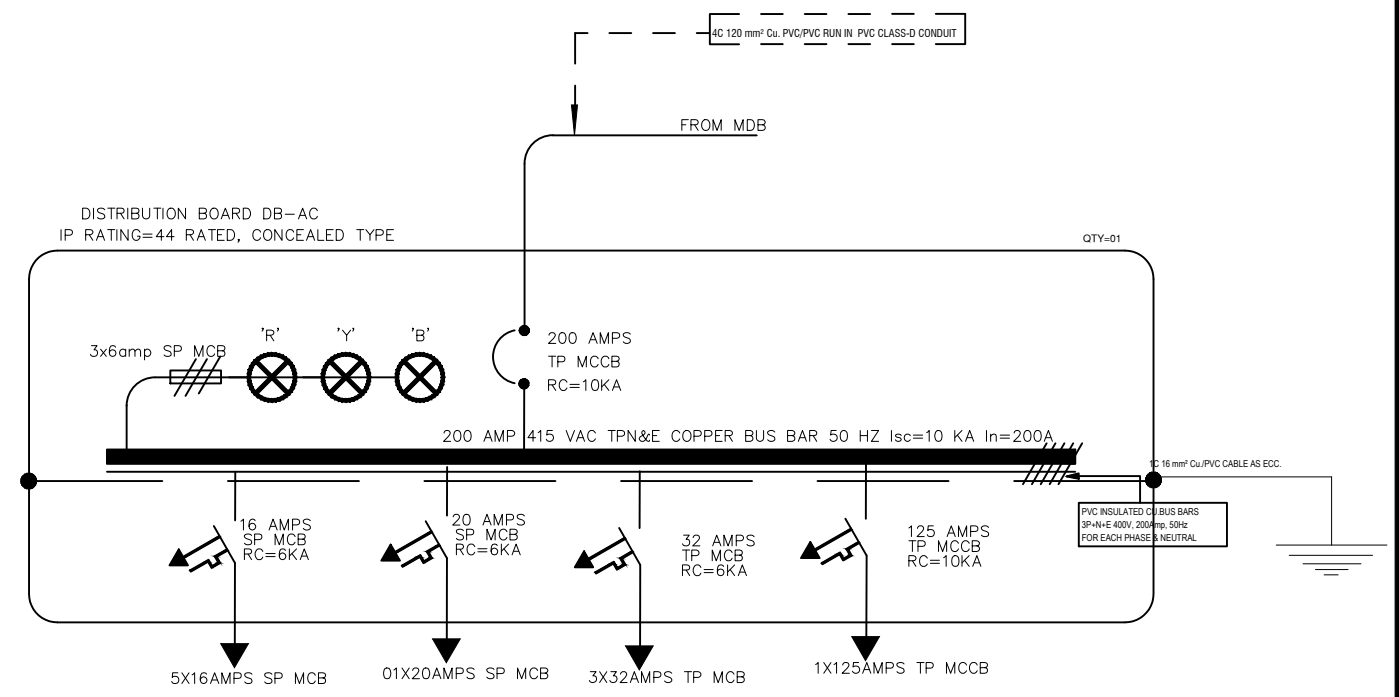
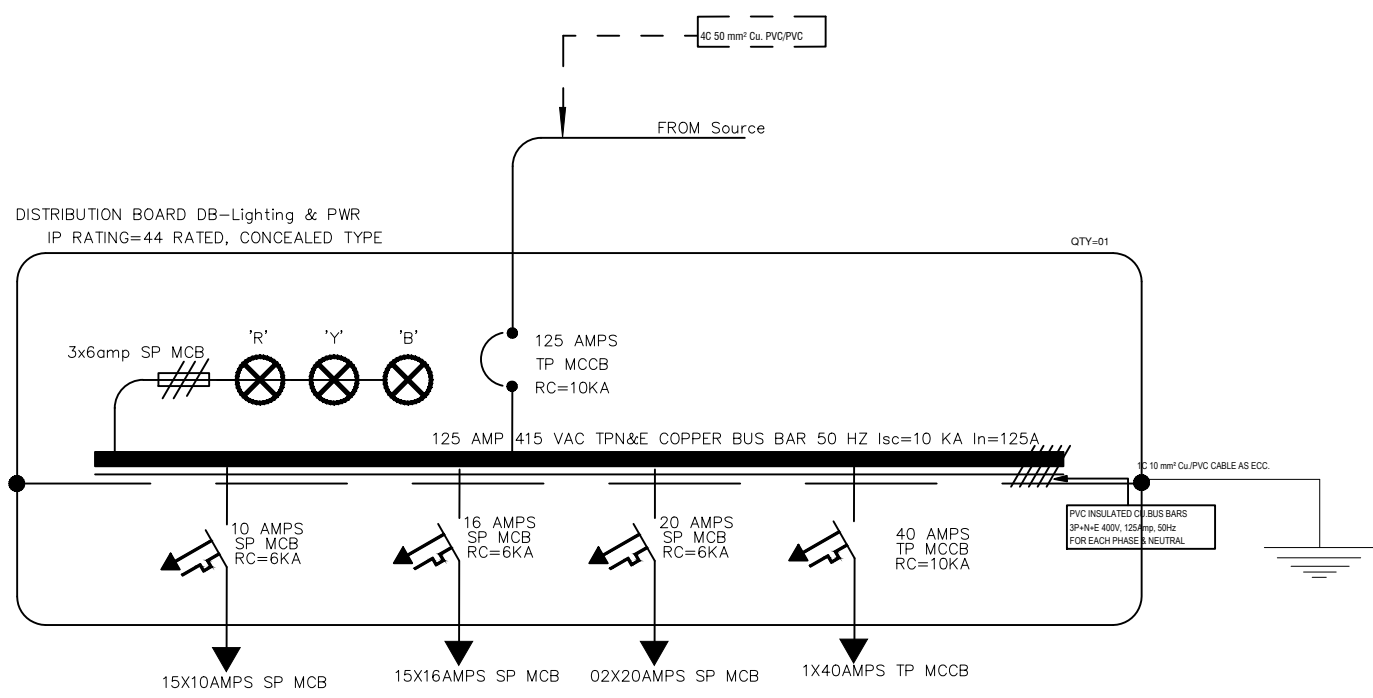
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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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: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK EARTHING DETAIL**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENGR. SHADAB
 APPROVED BY: A.S
 DATE: JAN, 2024
 DRAWN BY: ENGR. AHMAD
 JOB NO.:
 SCALE: N.T.S
 DRG. NO.: EL-05



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



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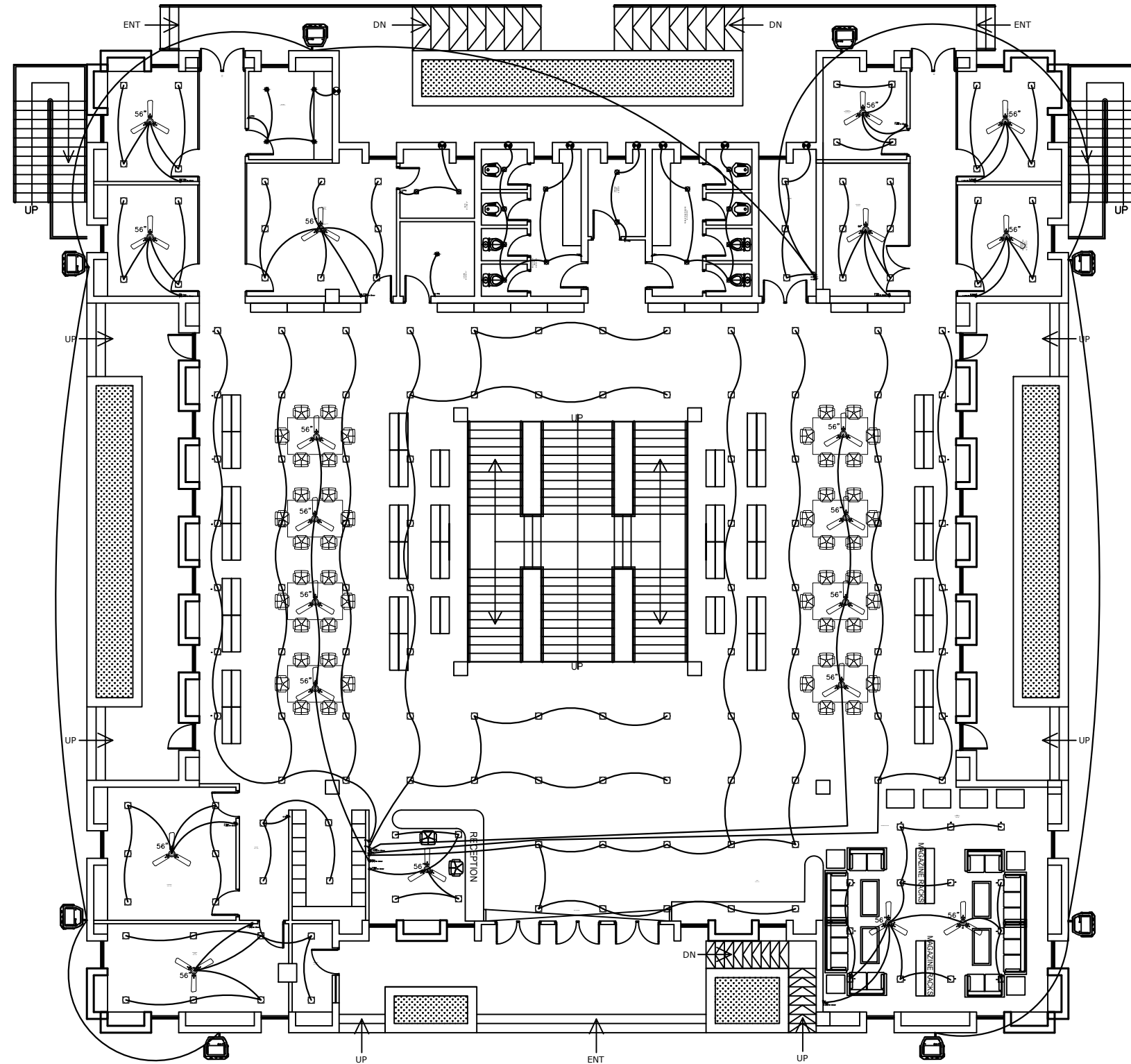
PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

TITLE: LUMHS LIBRARY BLOCK SLD OF DISTRIBUTION BOARDS

CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-06	



GROUND FLOOR PLAN
COVERED AREA = 9157 sft
TOTAL COVERED AREA = 14875 sft

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

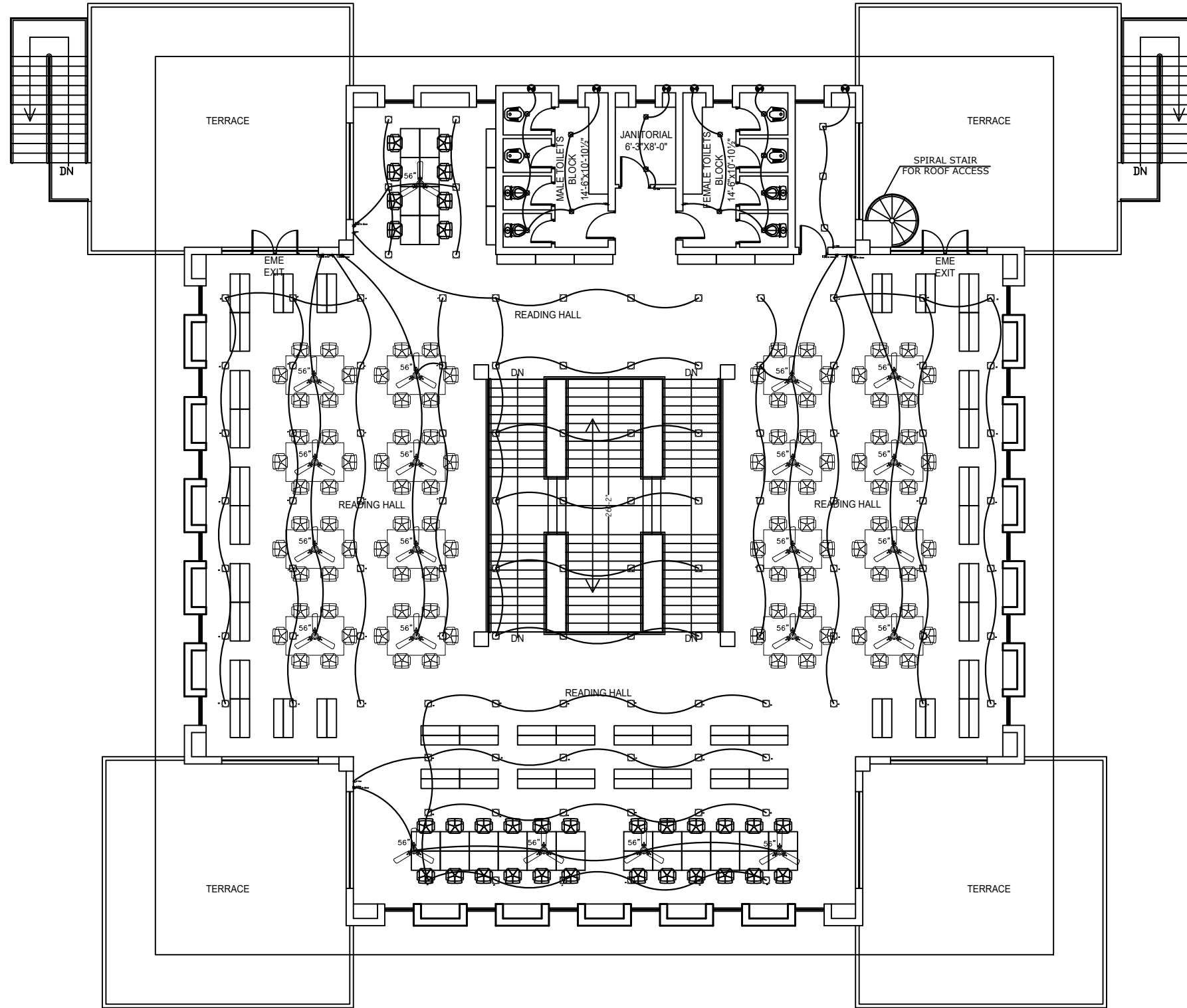


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 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS LIBRARY BLOCK GROUND FLOOR LIGHTING LAYOUT	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
ENGR. SHADAB	A.S	JAN, 2024
DRAWN BY:	JOB NO.	SCALE:
ENGR. AHMAD		N.T.S
DRG. NO.	EL-07	



FIRST FLOOR PLAN
COVERED AREA = 5718 sft

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



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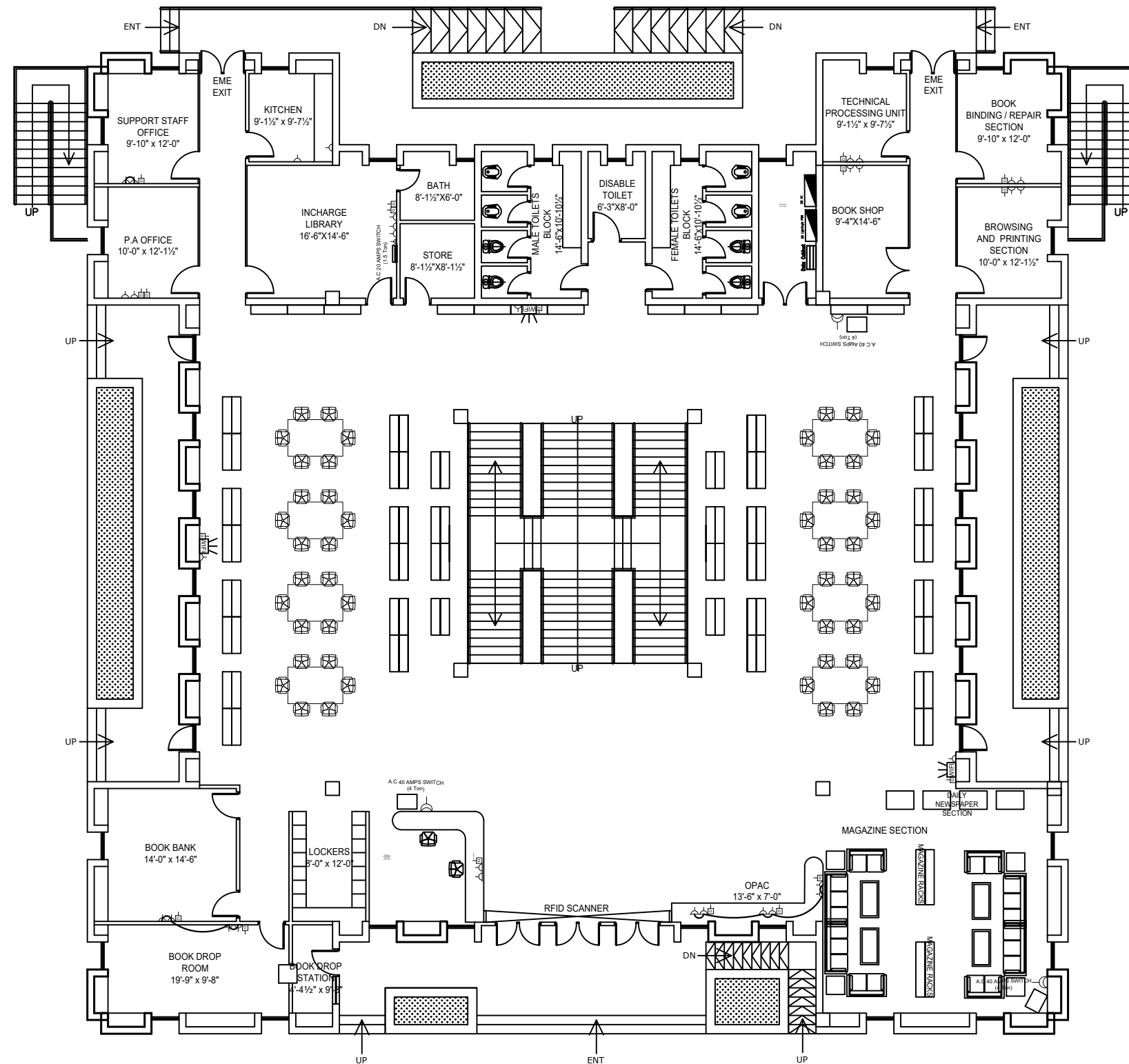
PROJECT:
UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

TITLE:
LUMHS LIBRARY BLOCK FIRST FLOOR LIGHTING LAYOUT

CAD filename:

CLIENT:
LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE : JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-08	



GROUND FLOOR PLAN
COVERED AREA = 9157 sft
TOTAL COVERED AREA = 14875 sft

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



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 Regional Office: 287-A Street # 6, Cavalry Ground, Lahore
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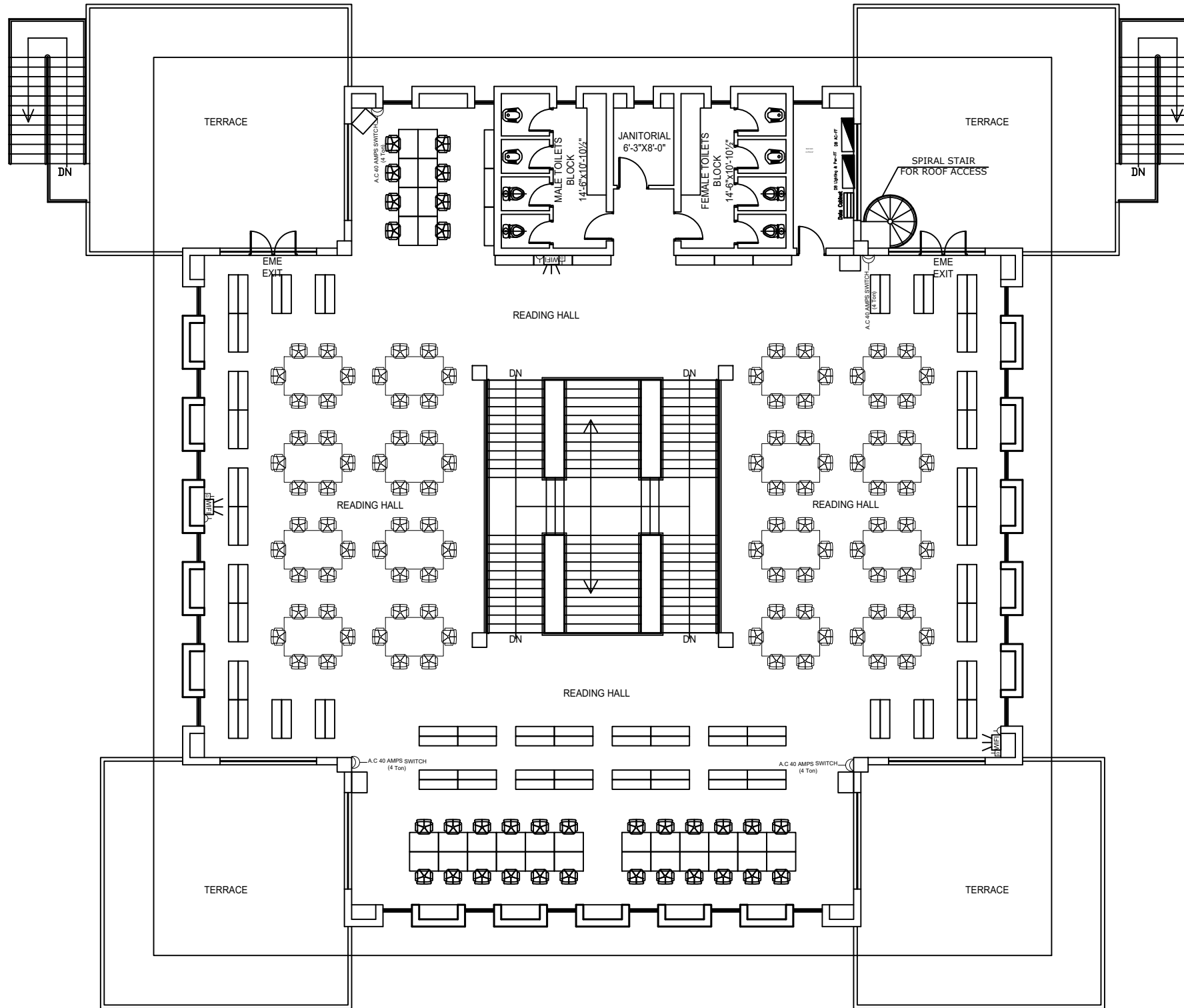
PROJECT:
UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

TITLE:
**LUMHS LIBRARY BLOCK
 GROUND FLOOR POWER LAYOUT**

CAD filename:

CLIENT:
LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-09	



FIRST FLOOR PLAN
COVERED AREA = 5718 sft

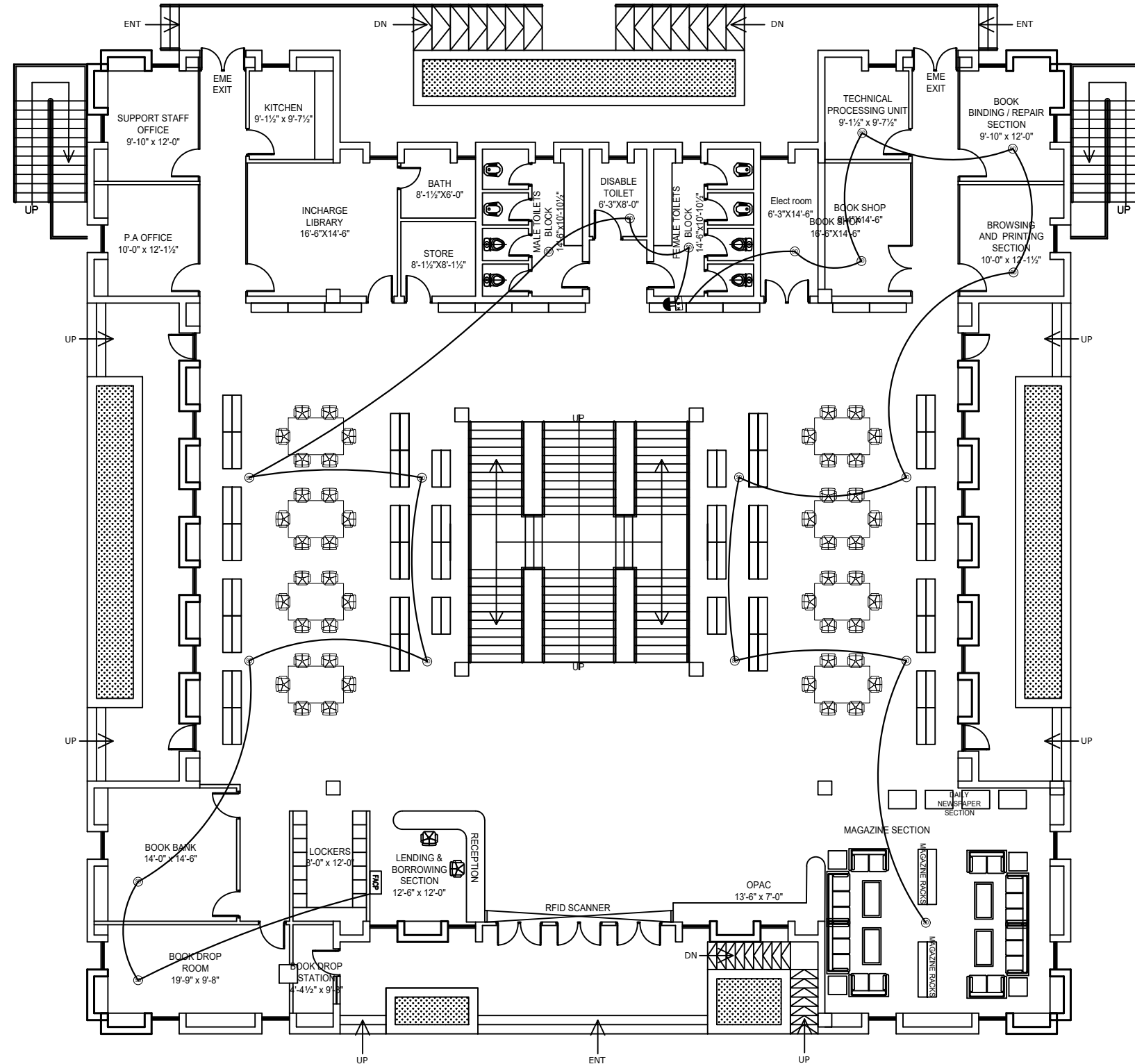
ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR POWER LAYOUT**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENGR. SHADAB
 APPROVED BY: A.S
 DATE: JAN, 2024
 DRAWN BY: ENGR. AHMAD
 JOB NO.:
 SCALE: N.T.S
 DRG. NO.: EL-10



GROUND FLOOR PLAN
COVERED AREA = 9157 sft
TOTAL COVERED AREA = 14875 sft

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

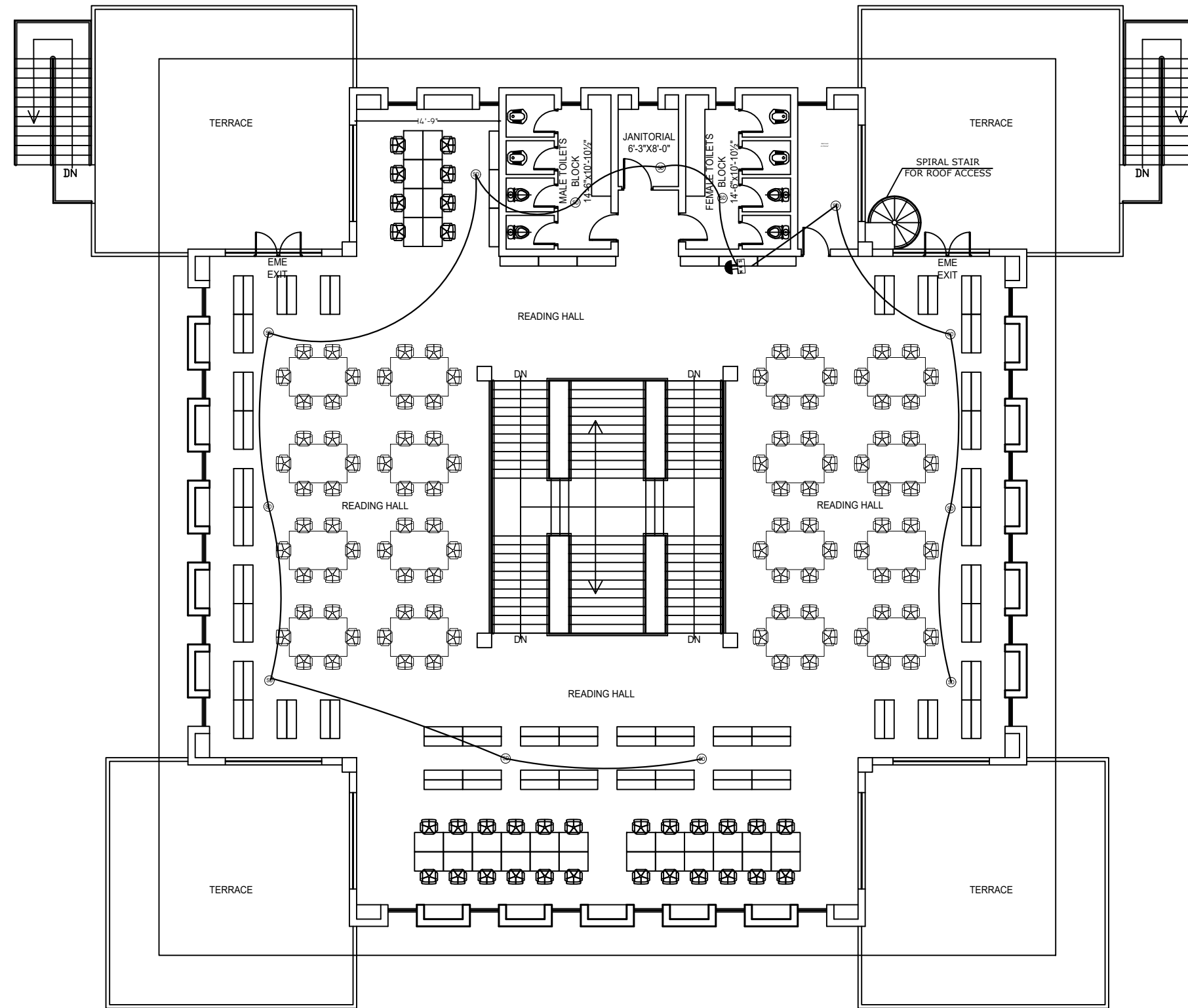


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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS LIBRARY BLOCK GROUND FLOOR FIRE ALARM SYSTEM LAYOUT	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	ENGR. SHADAB	APPROVED BY: A.S
DRAWN BY:	ENGR. AHMAD	DATE: JAN, 2024
DRG. NO.		SCALE: N.T.S
		EL-11



FIRST FLOOR PLAN
COVERED AREA = 5718 sft

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



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 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
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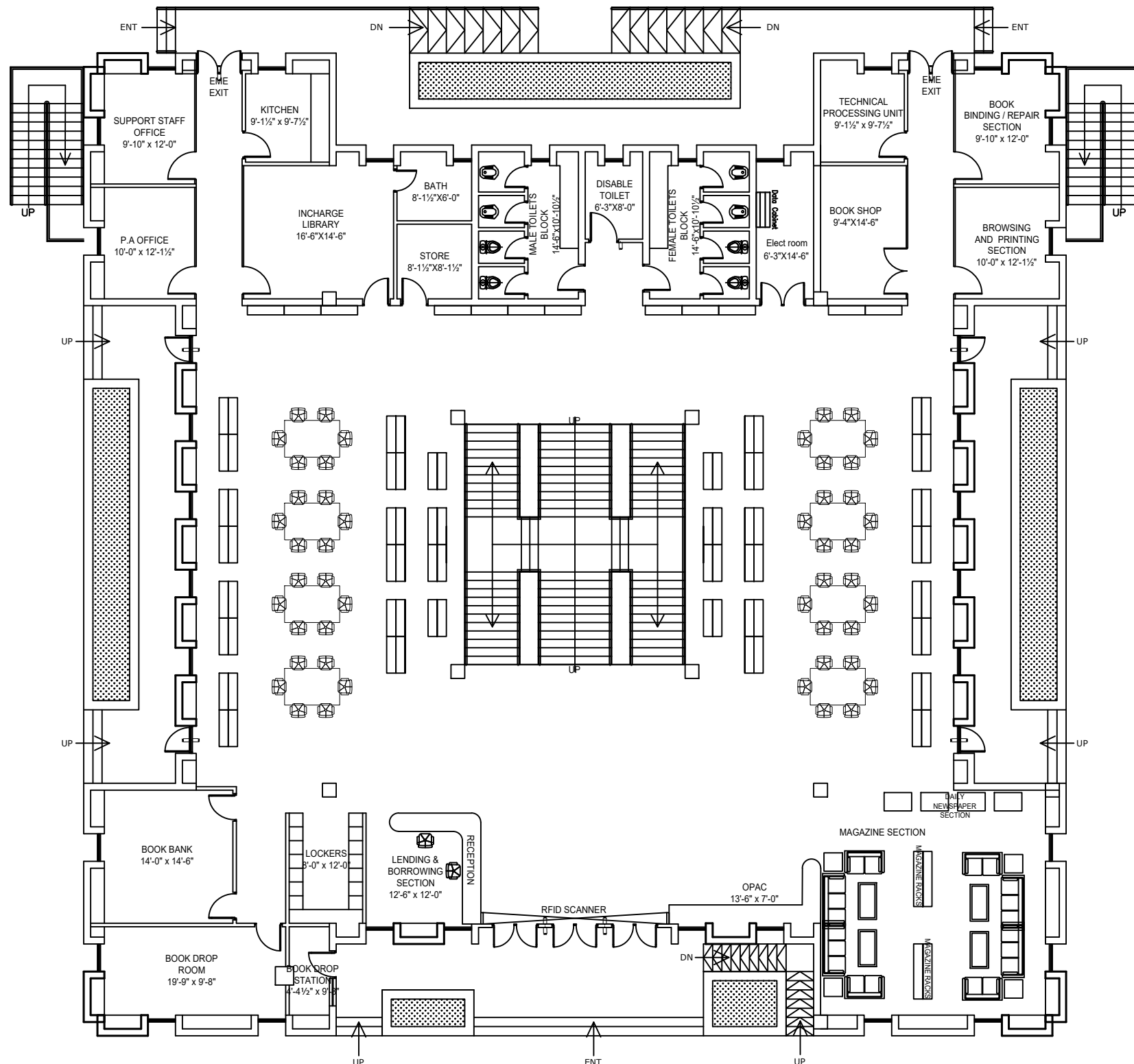
TITLE:
**LUMHS LIBRARY BLOCK
 FIRST FLOOR FIRE ALARM
 SYSTEM LAYOUT**

CAD filename:

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE : JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S

DRG. NO. EL-12



GROUND FLOOR PLAN
COVERED AREA = 9157 sft
TOTAL COVERED AREA = 14875 sft

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

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 IJP Road Islamabad.
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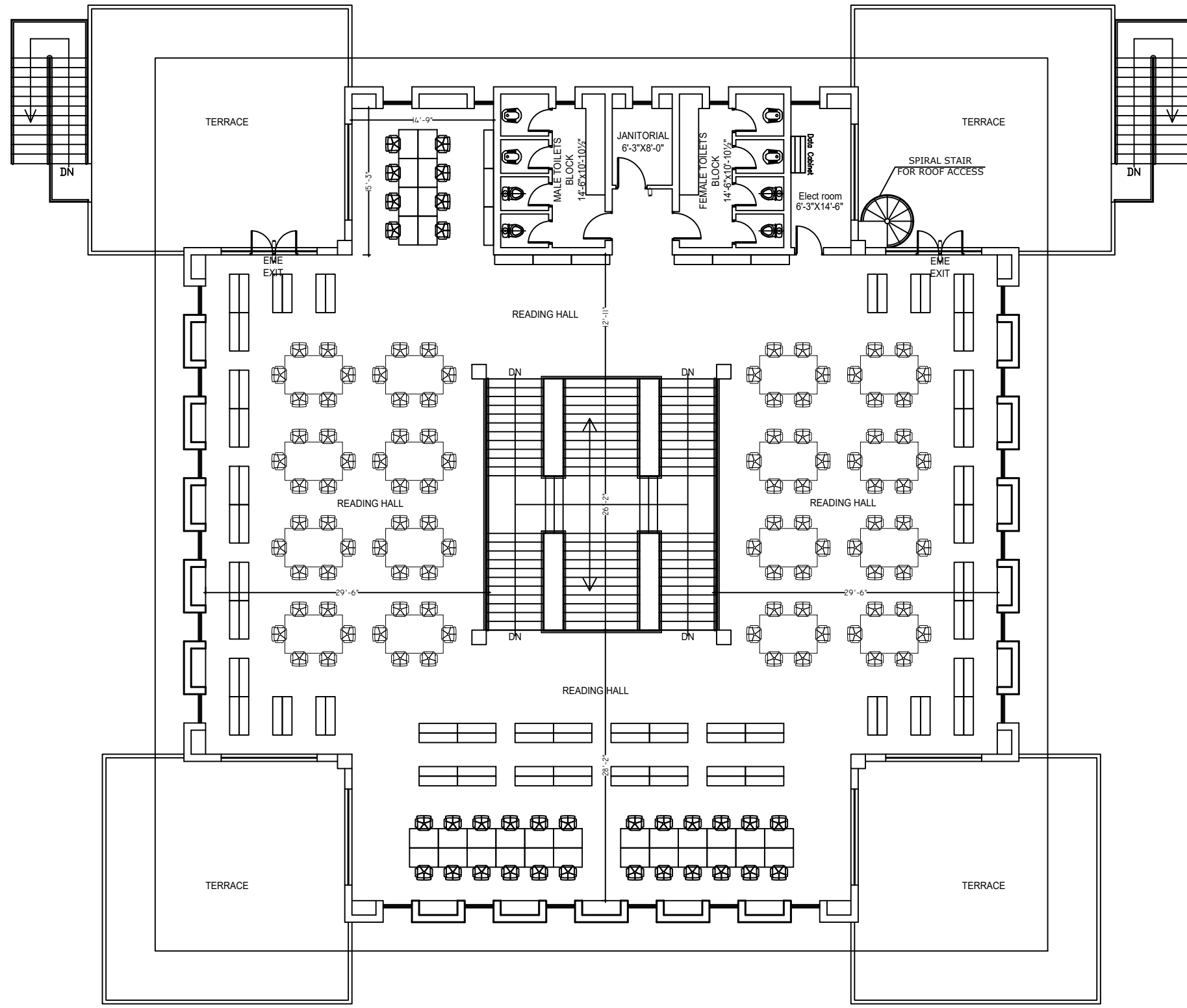
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS LIBRARY BLOCK GROUND FLOOR CCTV LAYOUT**

CAD filename:

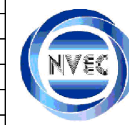
CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN, 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-13	



FIRST FLOOR PLAN
COVERED AREA = 5718 sft

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



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 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **LUMHS LIBRARY BLOCK FIRST FLOOR CCTV LAYOUT**
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: ENGR. SHADAB
 APPROVED BY: A.S
 DATE: JAN, 2024
 DRAWN BY: ENGR. AHMAD
 JOB NO.:
 SCALE: N.T.S
 DRG. NO.: EL-14

**PLUMBING
LUMHS LIBRARY**

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 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	TYPICAL DETAILS	PL-08
10	TYPICAL DETAILS	PL-09

ADDITION & REVISION				
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 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: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LIST OF DRAWINGS

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : FEB,2024
DRAWN BY: HANIF	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-00	

GENERAL NOTES.

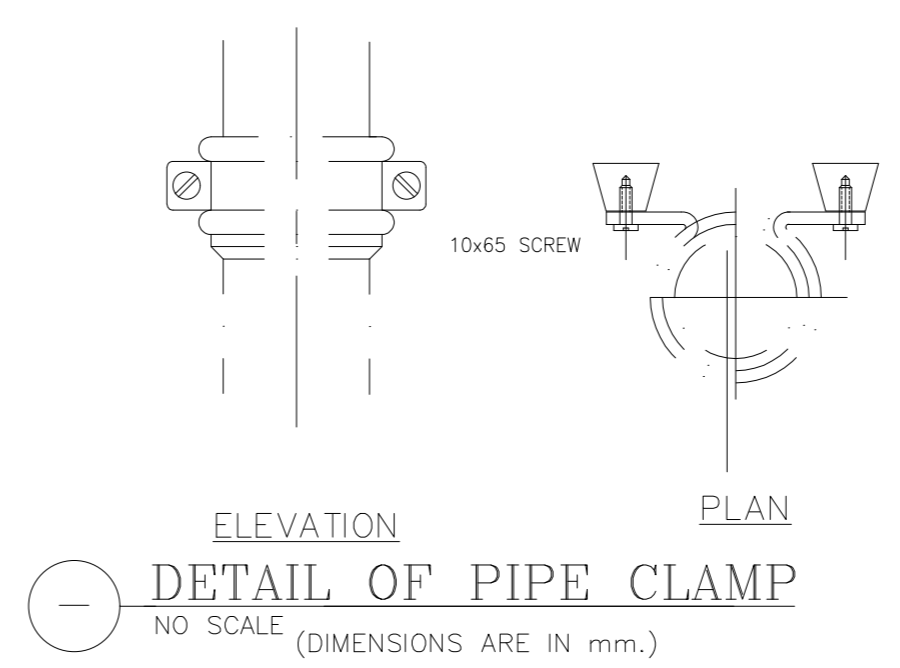
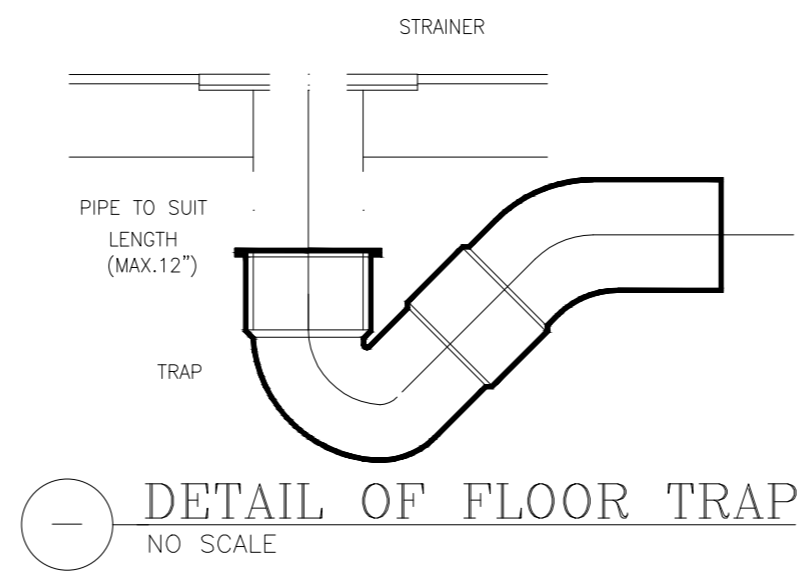
- 1 - PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES
- 2 - PIPE SIZES & DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE MENTIONED
- 3 - PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, ETC. TO AVOID CONFLIT OR INTERFERENCE WITH THEM.
- 4 - SIZE OF 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



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

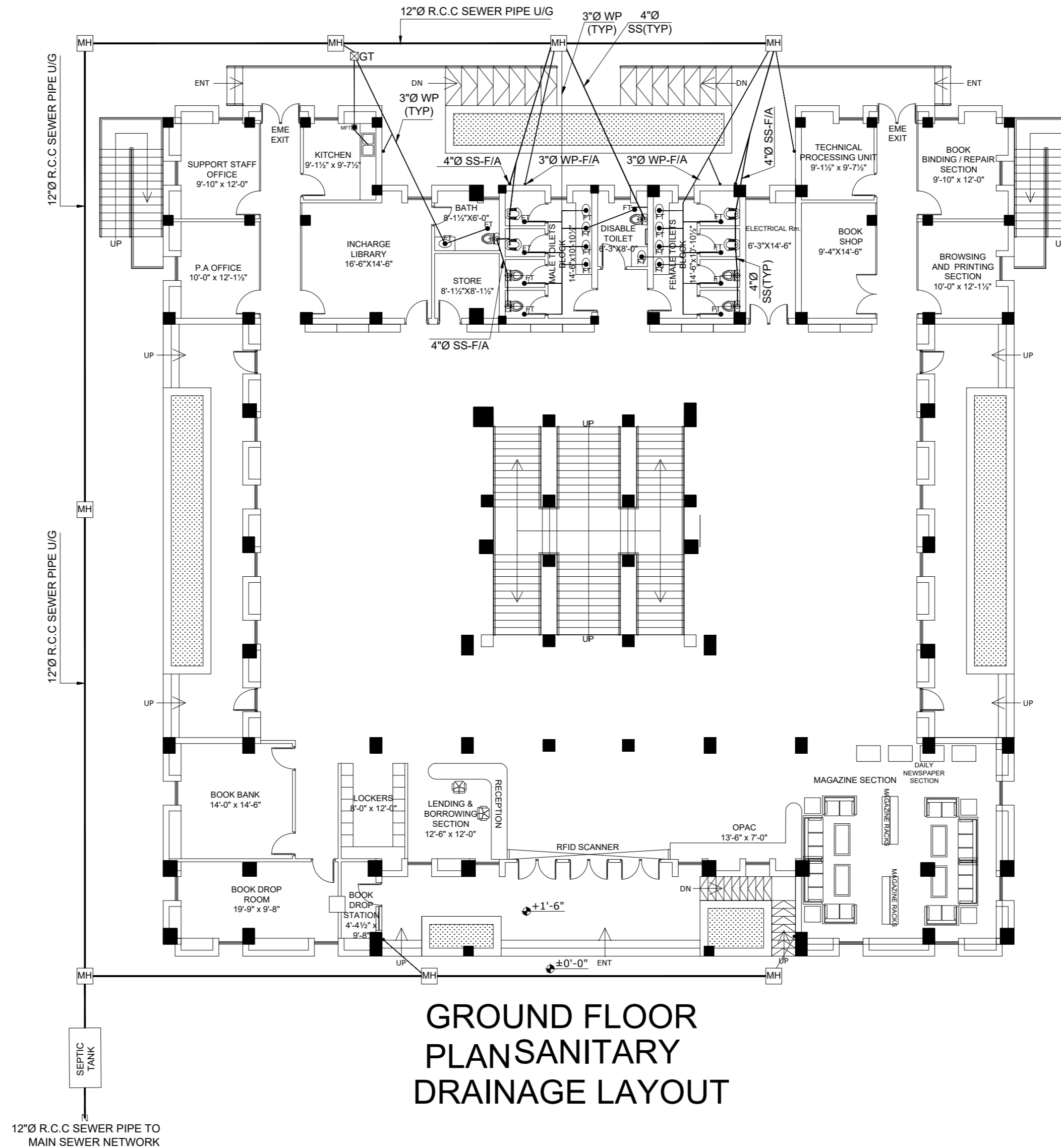
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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **GENERAL NOTES**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB,2024
DRAWN BY: HANIF	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-01	



ADDITION & REVISION					
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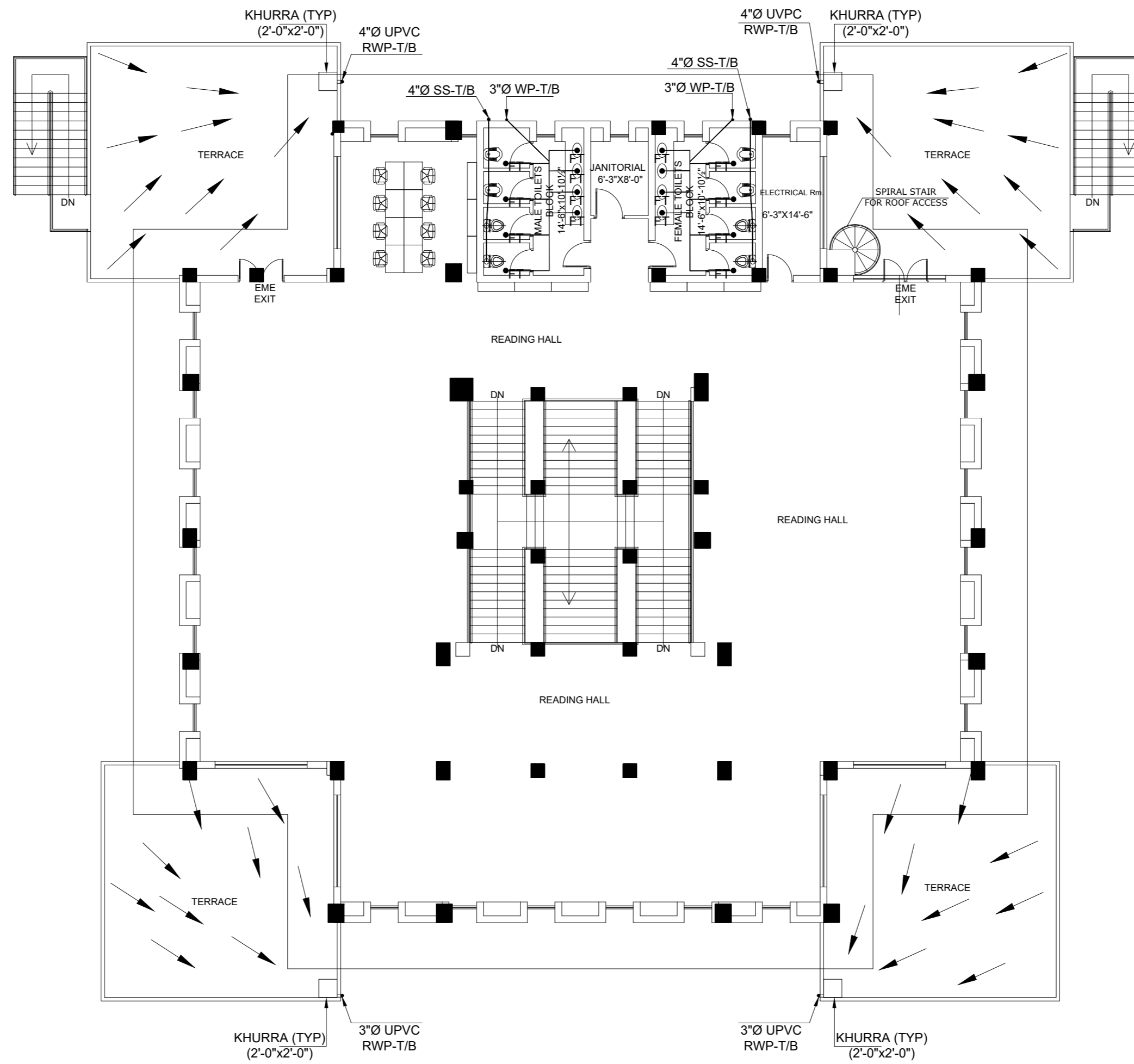
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
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TITLE:
**GROUND FLOOR PLAN
 SANITARY DRAINAGE LAYOUT**

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: HANIF	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-02	



FIRST FLOOR PLAN SANITARY DRAINAGE LAYOUT

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



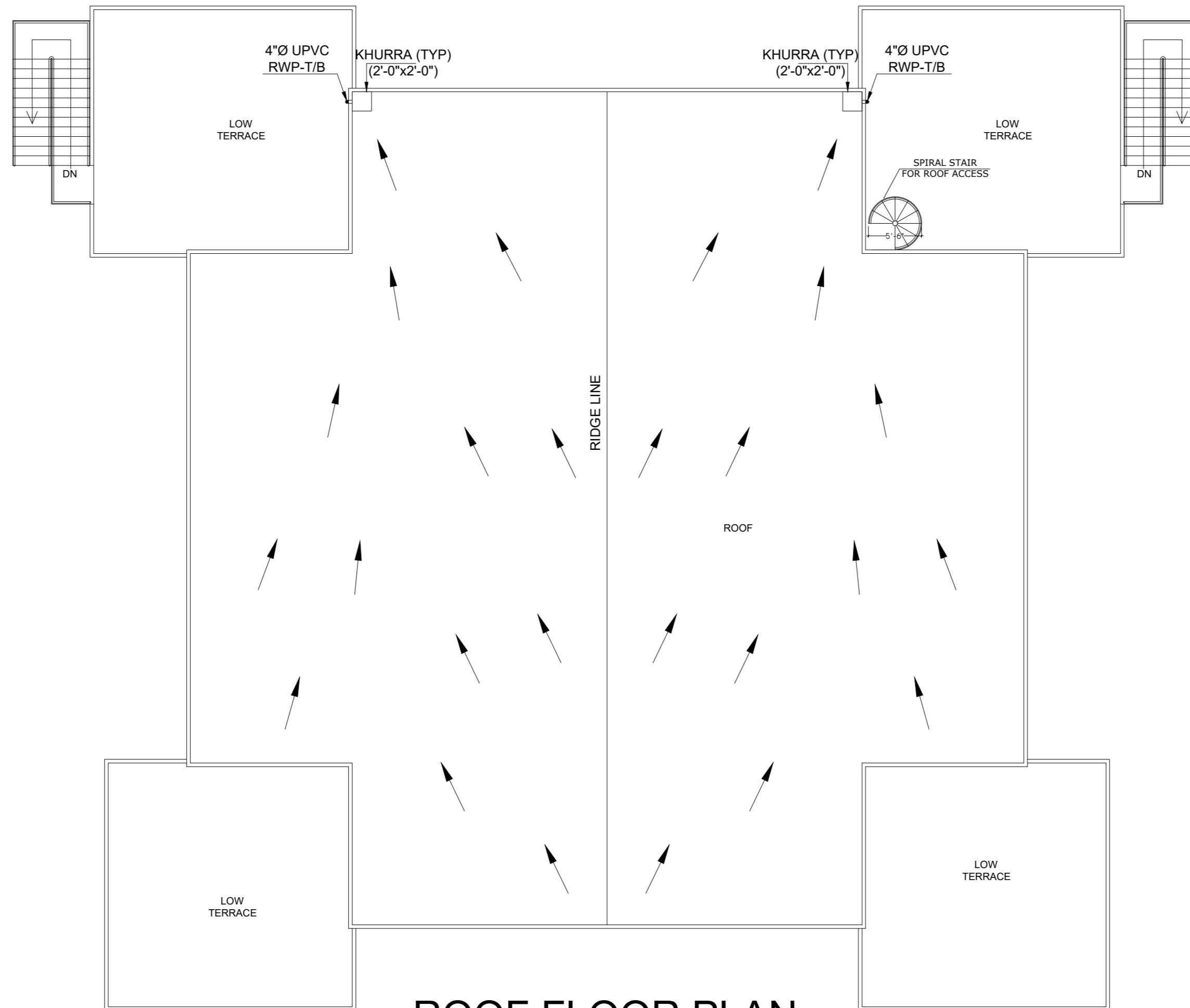
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
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TITLE:
**FIRST FLOOR PLAN
 SANITARY DRAINAGE LAYOUT**

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
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DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: HANIF	JOB NO.:	SCALE: N.T.S
DRG. NO.:		PL-03



**ROOF FLOOR PLAN
SANITARY
DRAINAGE LAYOUT**

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



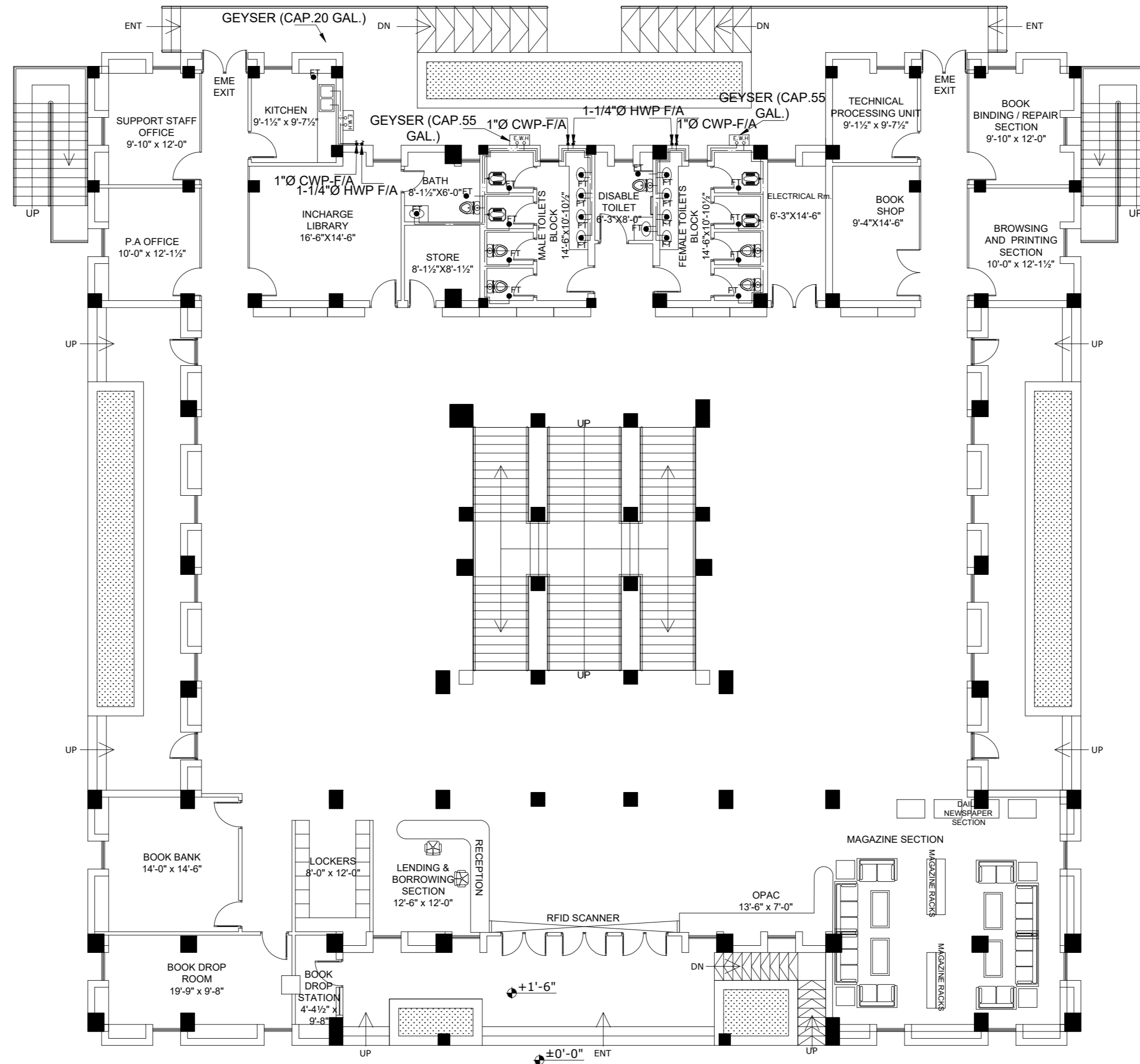
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
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TITLE:
**ROOF FLOOR PLAN
 SANITARY DRAINAGE LAYOUT**

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
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DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : FEB,2024
DRAWN BY: HANIF	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



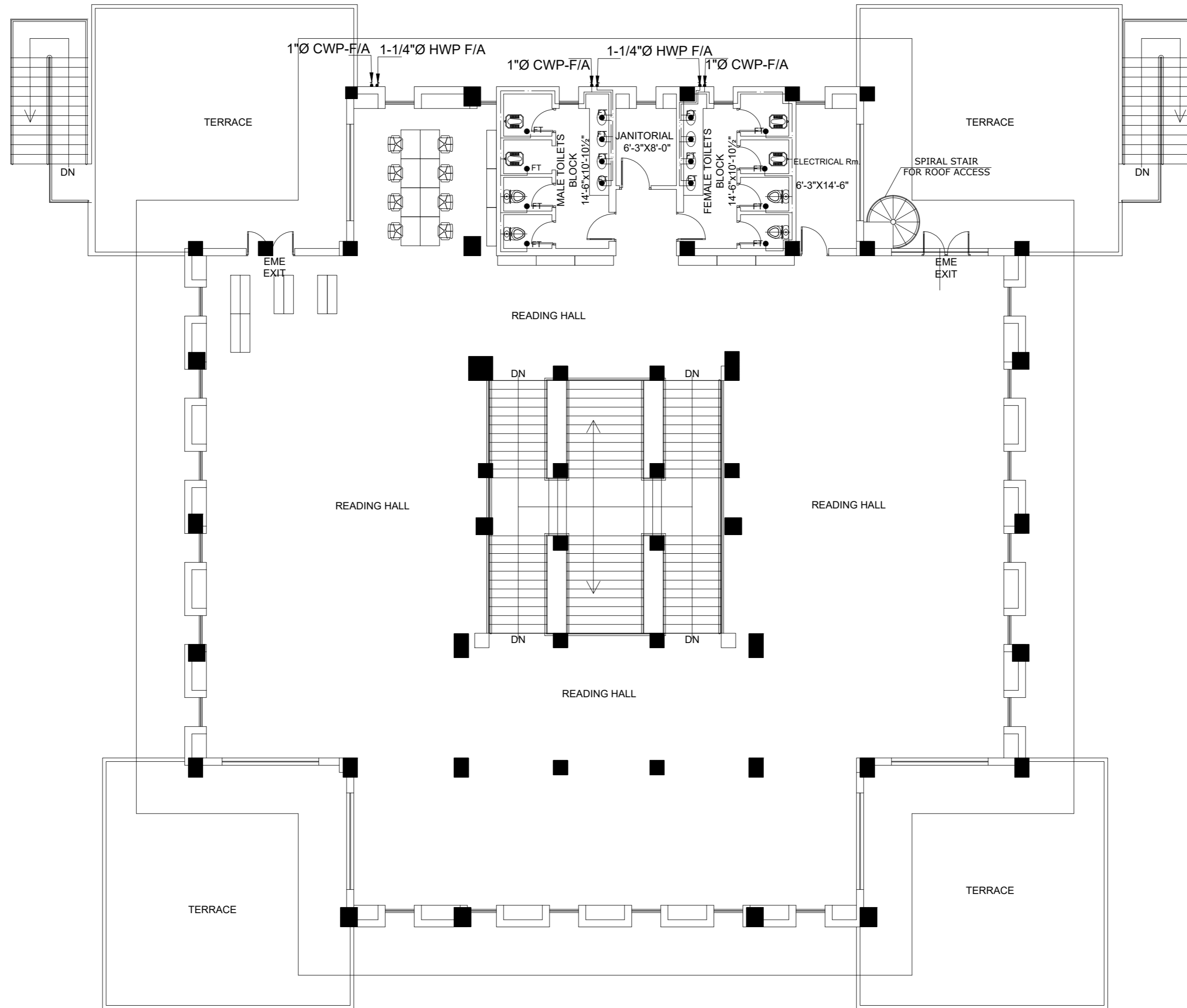
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
 MEDICAL & HEALTH SCIENCE JAMSHORO**

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

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: HANIF	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-05	



ROOF FLOOR PLAN WATER SUPPLY LAYOUT

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



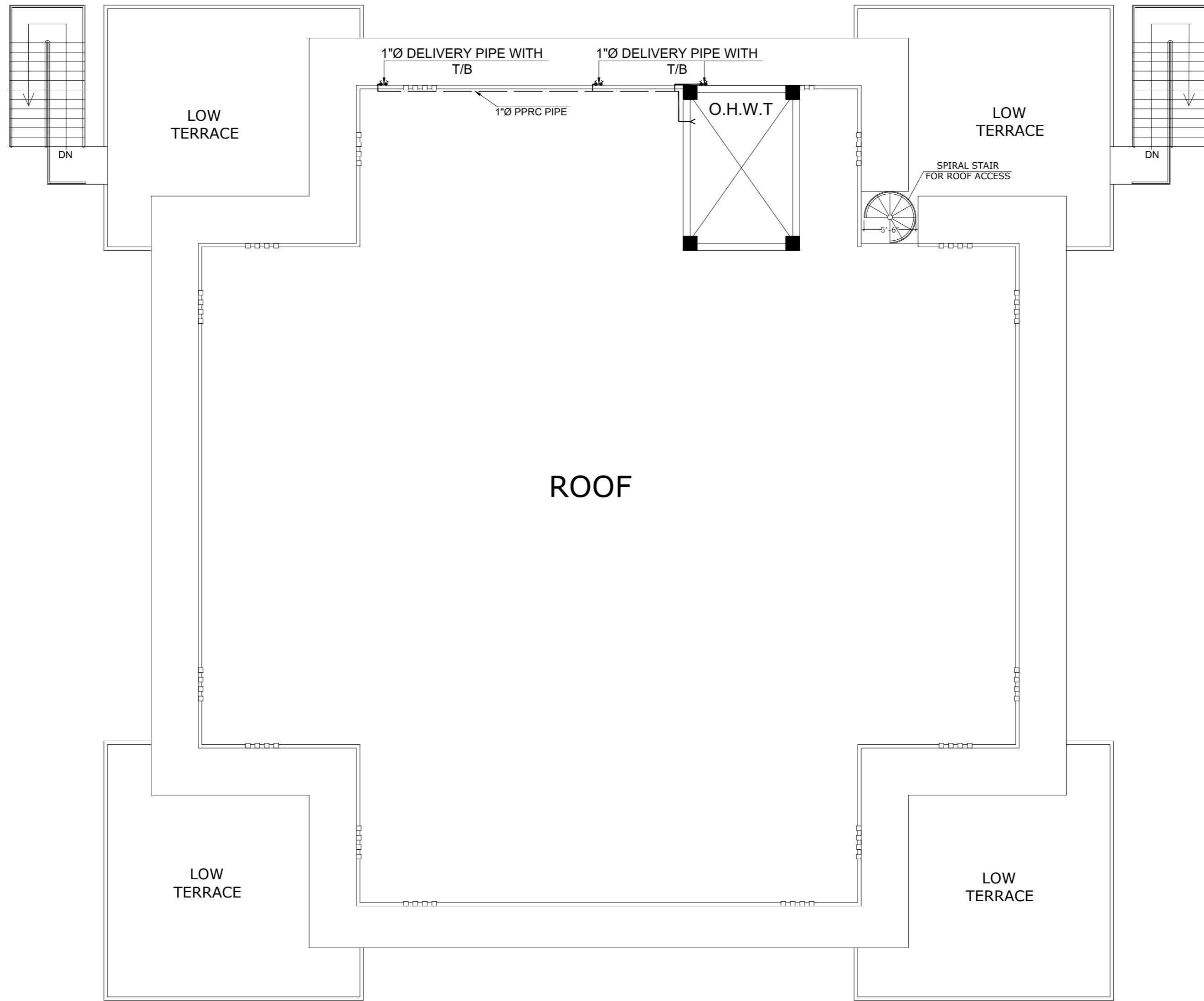
NEW VISION ENGINEERING CONSULTANT
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade
 IJP Road Islamabad.
 Ph: +92-51-4848375, Fax: +92-51-4848375
 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:
**FIRST FLOOR PLAN
 WATER SUPPLY LAYOUT**

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : FEB,2024
DRAWN BY: HANIF	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-06	



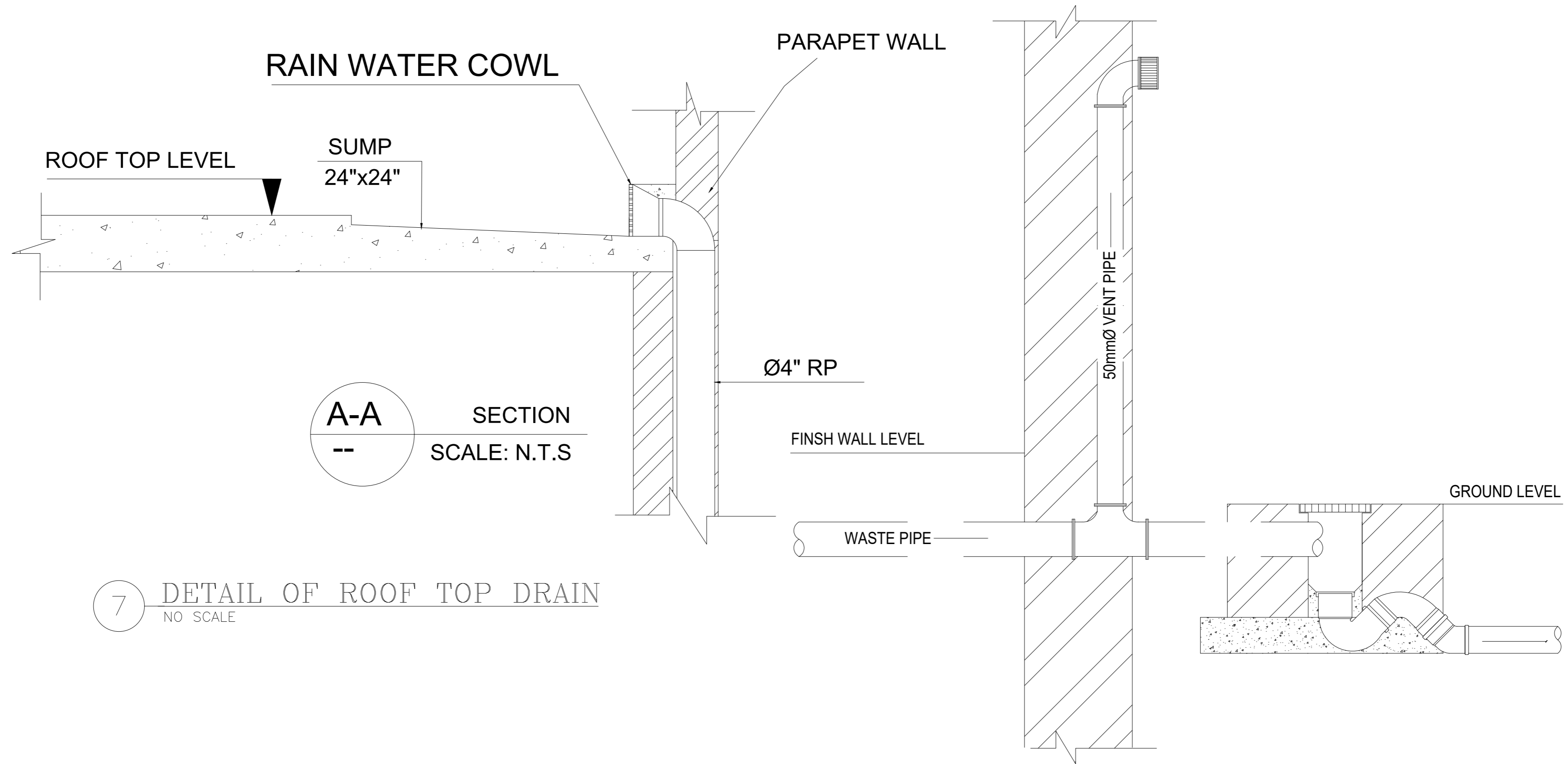
ROOF FLOOR PLAN WATER SUPPLY LAYOUT

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



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 Email: newvisionec@yahoo.com
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
 Ph: +92-42-37250130

PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: ROOF PLAN WATER SUPPLY LAYOUT	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DATE : FEB, 2024
	DRAWN BY: HANIF
	JOB NO.
	SCALE: N.T.S
	DRG. NO. PL-07



7 DETAIL OF ROOF TOP DRAIN
NO SCALE

DETAIL OF WASTE VENT PIPE
NO SCALE

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



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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:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:
TYPICAL DETAILS

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB,2024
DRAWN BY: HANIF	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-08	

3" THICK R.C.C COVER
22" DIA WITH C.I FRAME OF
20" CLEAR DIA

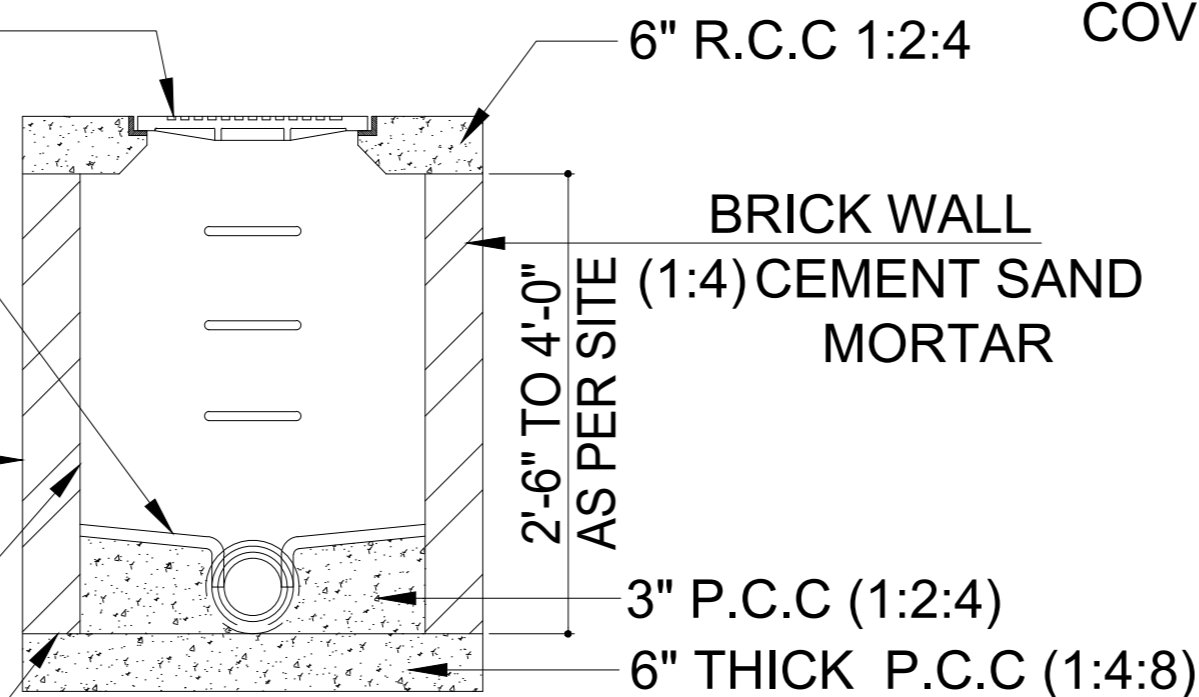
BENCHING FLOATED SMOOTH
WITH STEEL TROWEL.
SLOPE ABOUT 1 IN 6 CEMENT
MORTAR 1:1

CEMENT PLASTER 1:3 +
BITUMEN COAT 20lb/100 sft

CEMENT PLASTER 1:3

ROUGHENED CLEANED
AND WETTED BEFORE
PLACING CONCRETE FOR
THE WALLS

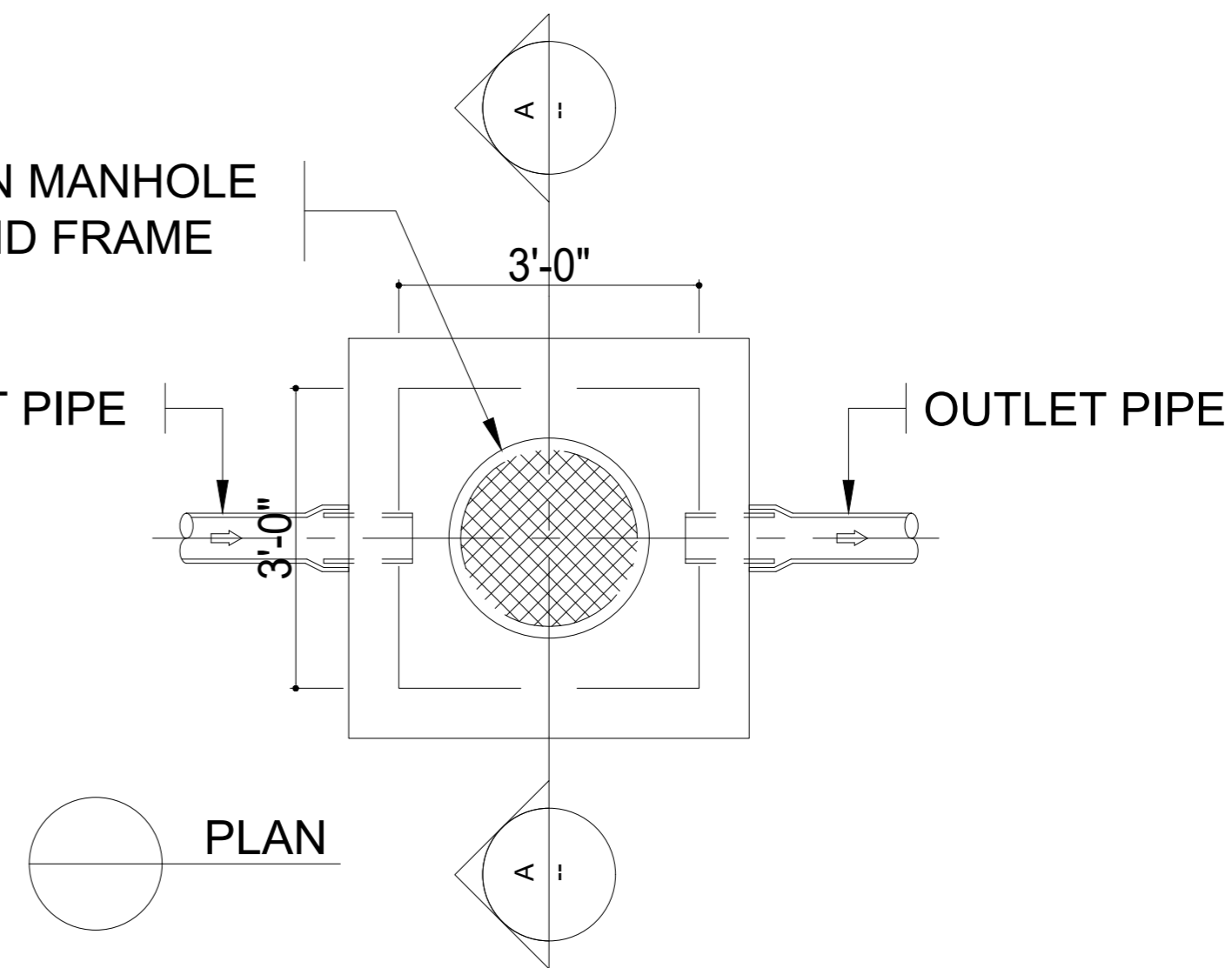
A-A SECTION
--



CAST IRON MANHOLE
COVER AND FRAME

INLET PIPE

OUTLET PIPE



PLAN

MANHOLE DETAIL

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



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IJP Road Islamabad.
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
NURSING SCHOOL, LIAQUAT UNIVERSITY OF
MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:
TYPICAL DETAILS

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: FEB, 2024
DRAWN BY: HANIF	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-09	