

PROPOSED DESIGN OF
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK



PLANNERS CONSULTANTS ENGINEERS (PCE)

97-K Industrial Estate, Hayatabad Peshawar Pakistan
Ph: 0092-91-5816017, 5891661-4, Fax: 5891845
E-Mail: pce.pesh@yahoo.com

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS			ELECTRICAL DRAWINGS		
SR.NO	DESCRIPTION	DRG. NO.	SR.NO	DESCRIPTION	DRG. NO.
1	SITE PLAN	A-01	17	GROUND FLOOR BEAM PLAN	S-07
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15	GROUND FLOOR COLUMN LAYOUT PLAN	S-05	31	LOAD CALCULATION	E-09
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CLIENT:



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SCHOOL NAME

GBHSS HASSAN ABDAL
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Date of Revision

Prepared By

FARID KHAN
 KHAN HABIBER
 ARCHITECT

Designed By

MARWAT KHAN OKARZAI
 (B.Arch/D.C.E.T.Karachi)
 (M.Arch/DET.Lahore)

Checked By

Approved By

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
 FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

LIST OF DRAWINGS

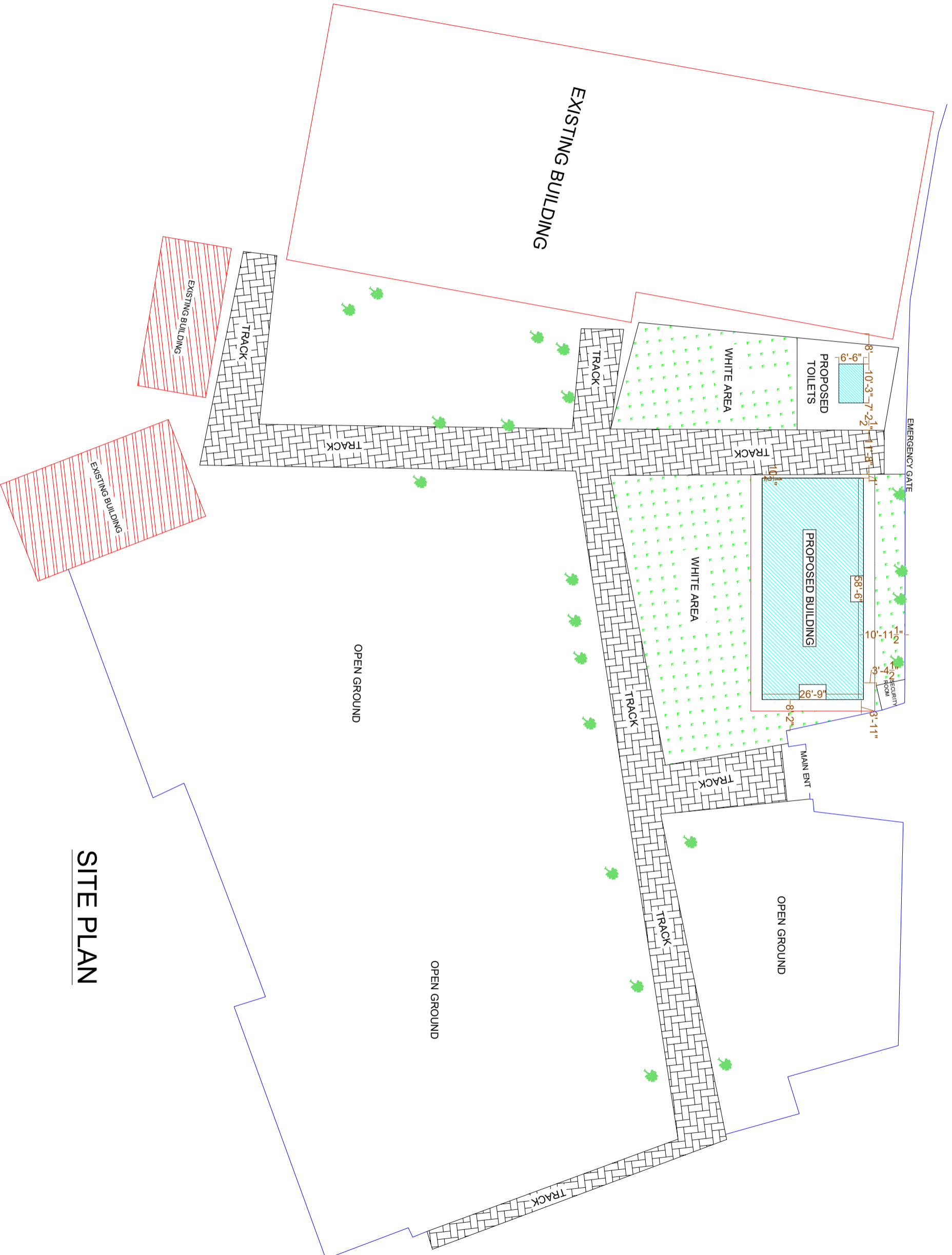
DATE

SEP 2023

SCALE

DRG.NO.

A-00



SITE PLAN

CLIENT:

 The UN Refugee Agency

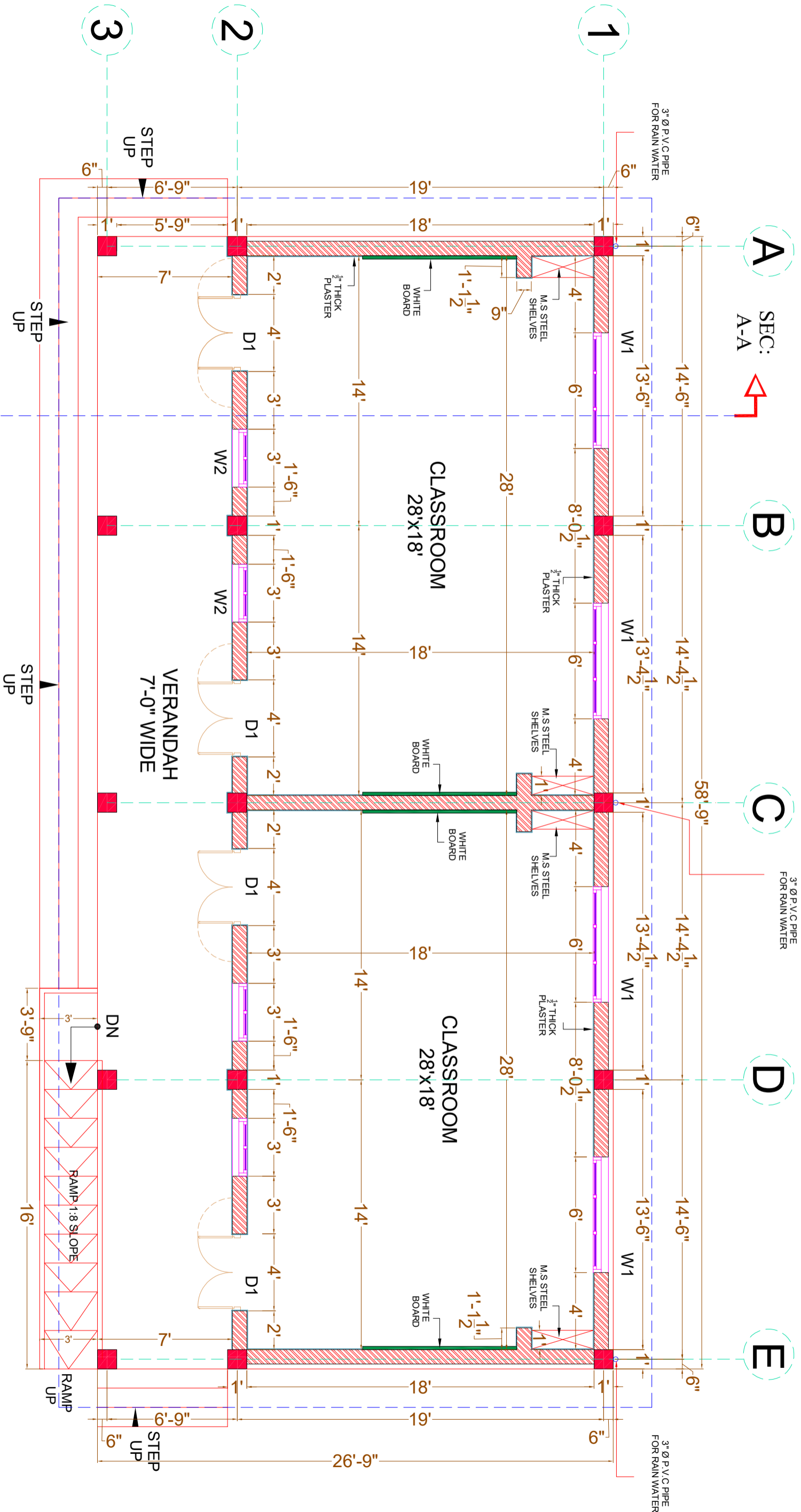
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Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORARZA (B.Arch D.C.E.T Karachi)
	Checked By	(M.Arch. UET, Lahore)
	Approved By	

PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES	SEP 2023		A-01
TITLE:			
SITE PLAN			





SEC: A-A

GROUND FLOOR PLAN

CLIENT:



CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

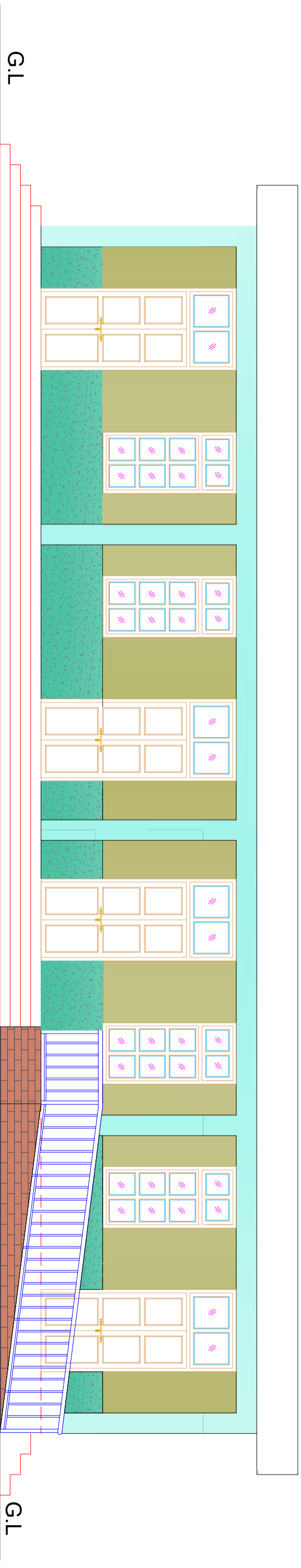
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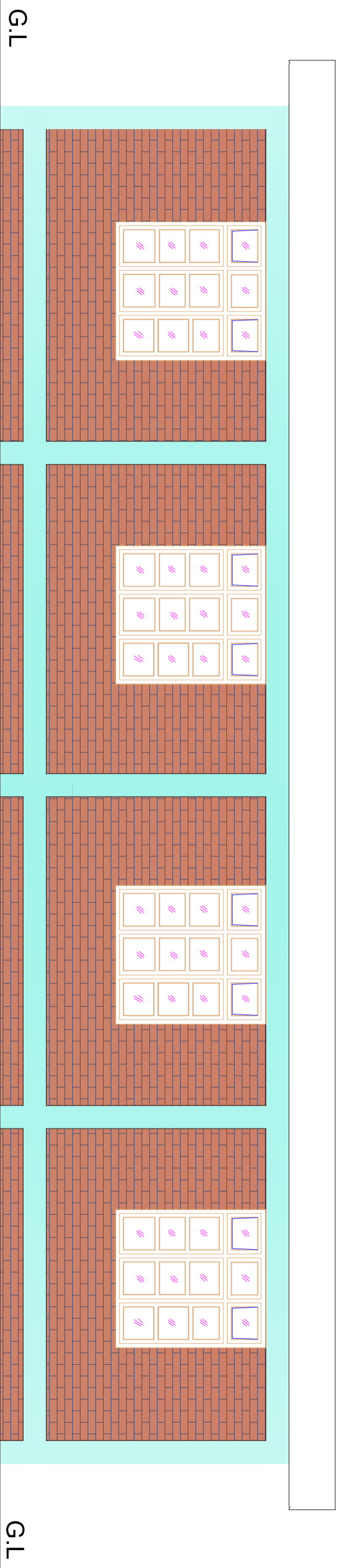
Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORAKZAI (M.Arch, UET Lahore)
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	Approved By	

PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/ REHABILITATION OF SITES	SEPT 2023		A-02
GROUND FLOOR PLAN			





FRONT ELEVATION

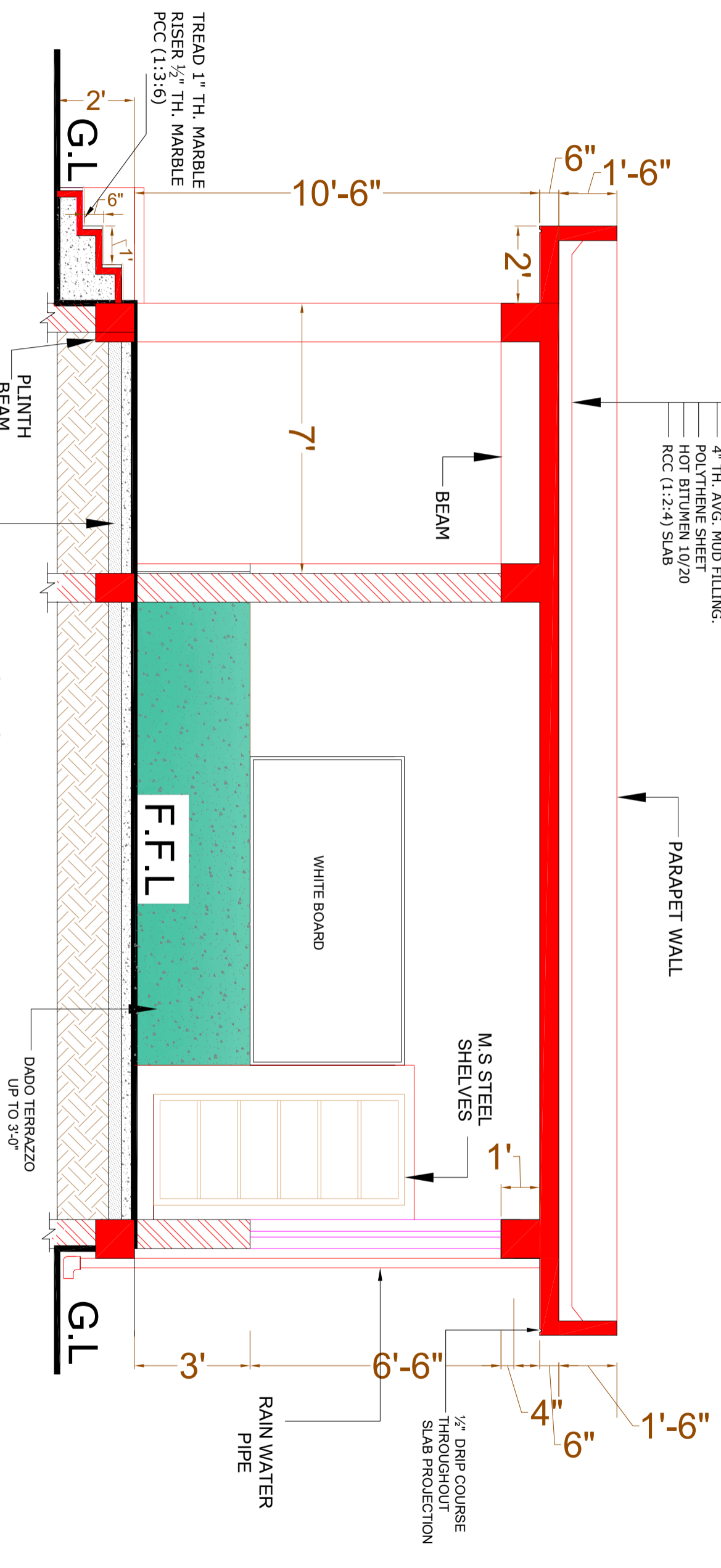
CLIENT:  		SCHOOL NAME GBHSS HASSAN ABDAL TEHSIL & DISTRICT ATTOCK		Date of Revision Prepared By Designed By Checked By Approved By		PROJECT: PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES TITLE: FRONT ELEVATION	
CONSULTANTS: PLANNERS CONSULTANTS ENGINEERS (PCE) 97-K Industrial Estate, Hayatabad Peshawar Pakistan Ph: 0092-91-5816017, 5891661-4, Fax: 5891845 E-Mail: pce.pesh@yahoo.com				Prepared By FARID KHAN KHAN HAIDER ARCHITECT		DATE SEP 2023	
				Checked By		SCALE	
				Approved By		DRG.NO. A-03	



REAR ELEVATION

CLIENT: 		CONSULTANTS: 	
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Date of Revision	Prepared By	ARCHITECT	PROJECT: PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Designed By	MARWAT KHAN OKARZAI (B.Arch D.E.T Karachi)	
	Checked By		
	Approved By		DATE SEP 2023
			SCALE A-04
			DRG.NO. REAR ELEVATION

- 1.25" TH. BRICK TILES
- SET & GROUDED IN C/S (1:2)
- 4" TH. AVG. MUD FILLING.
- POLYTHENE SHEET
- HOT BITUMEN 10/20
- RCC (1:2:4) SLAB



SECTION AT A-A

CLIENT:

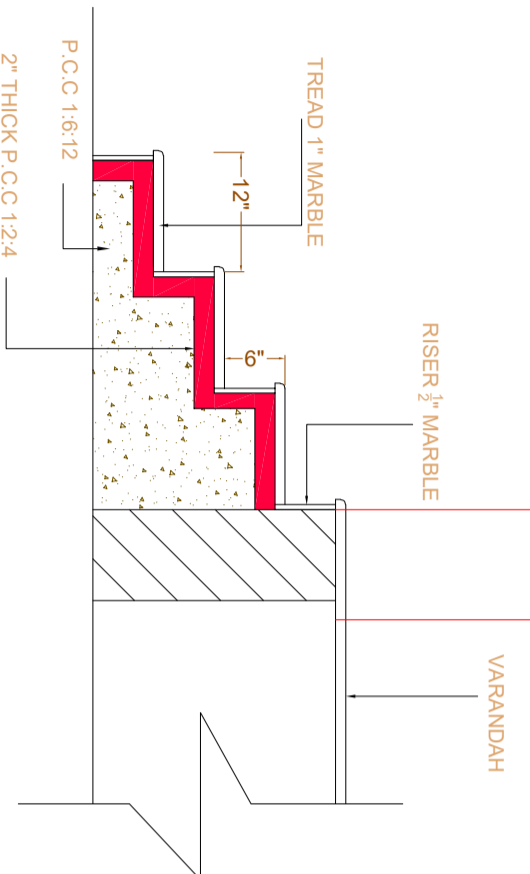
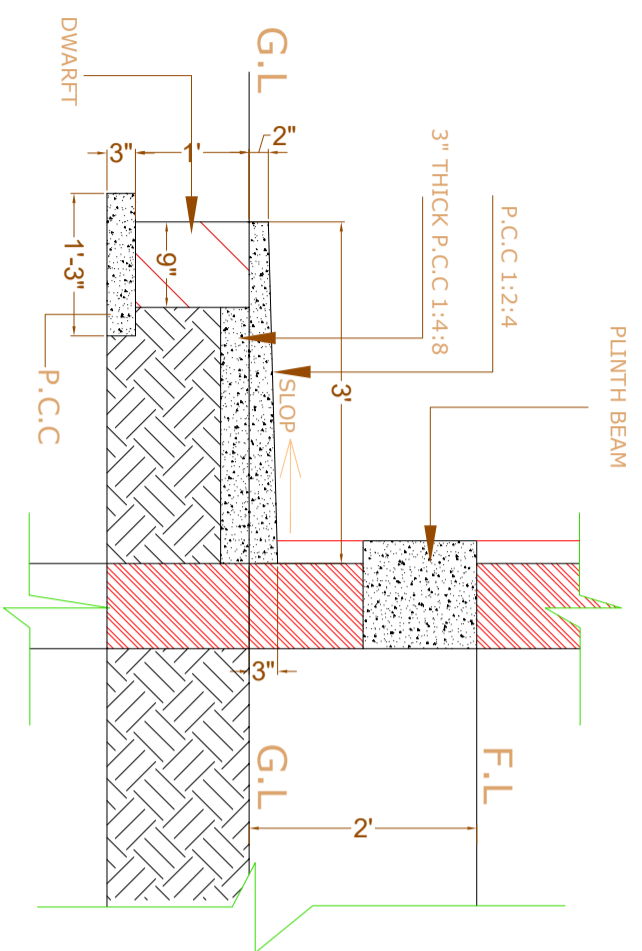


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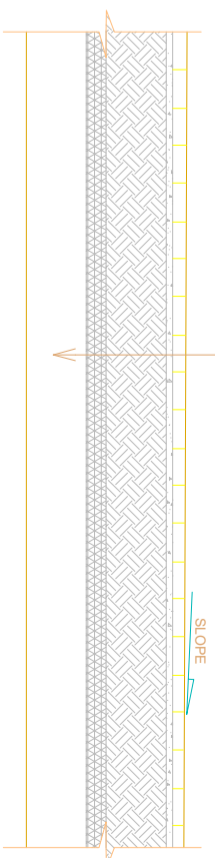
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	Designed By	MARWAT KHAN ORAKZAI (B.Arch, D.C.E.T, Karachi)
	Checked By	(M.Arch, UET, Lahore)
	Approved By	

PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023	SECTION AT A A	A-05

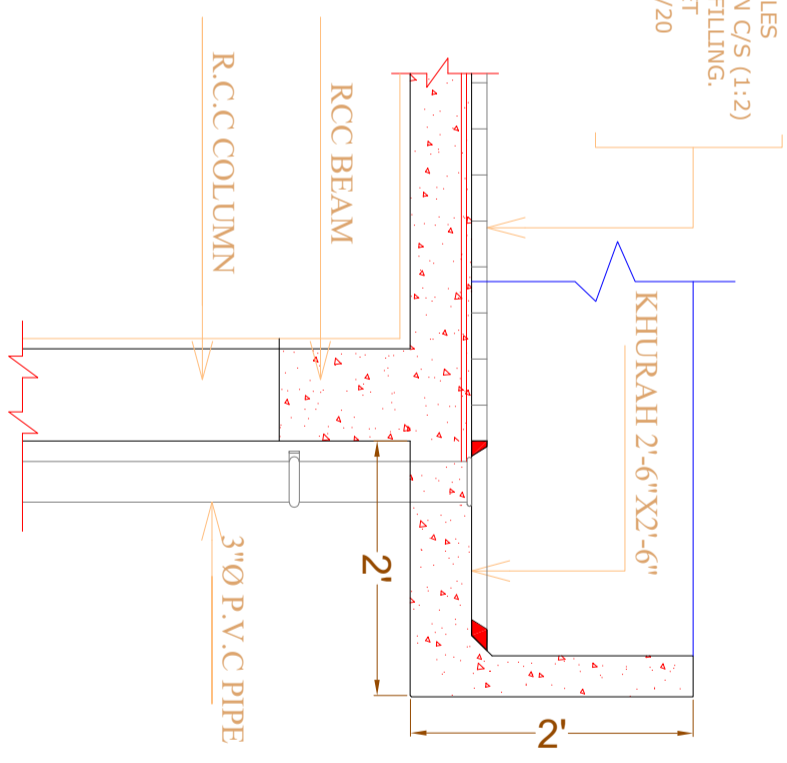


VERANDAH STEPS DETAILS

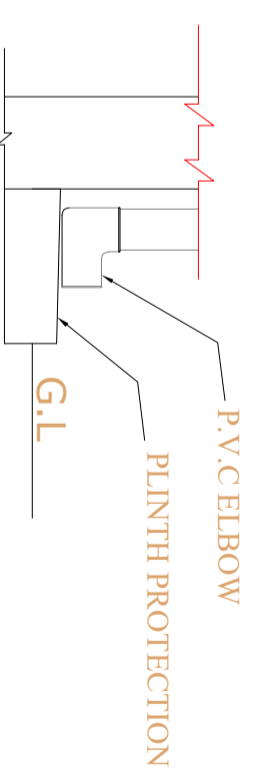
1.25" TH. BRICK TILES
SET & GROUDED IN C/S (1:1:2)
4" TH. AVG. MUD FILLING.
POLYTHENE SHEET
HOT BITUMEN 10/20
RCC (1:2:4) SLAB



1.25" TH. BRICK TILES
SET & GROUDED IN C/S (1:1:2)
4" TH. AVG. MUD FILLING.
POLYTHENE SHEET
HOT BITUMEN 10/20
RCC (1:2:4) SLAB



RAIN WATER PIPE DETAIL



CLIENT:



CONSULTANTS:

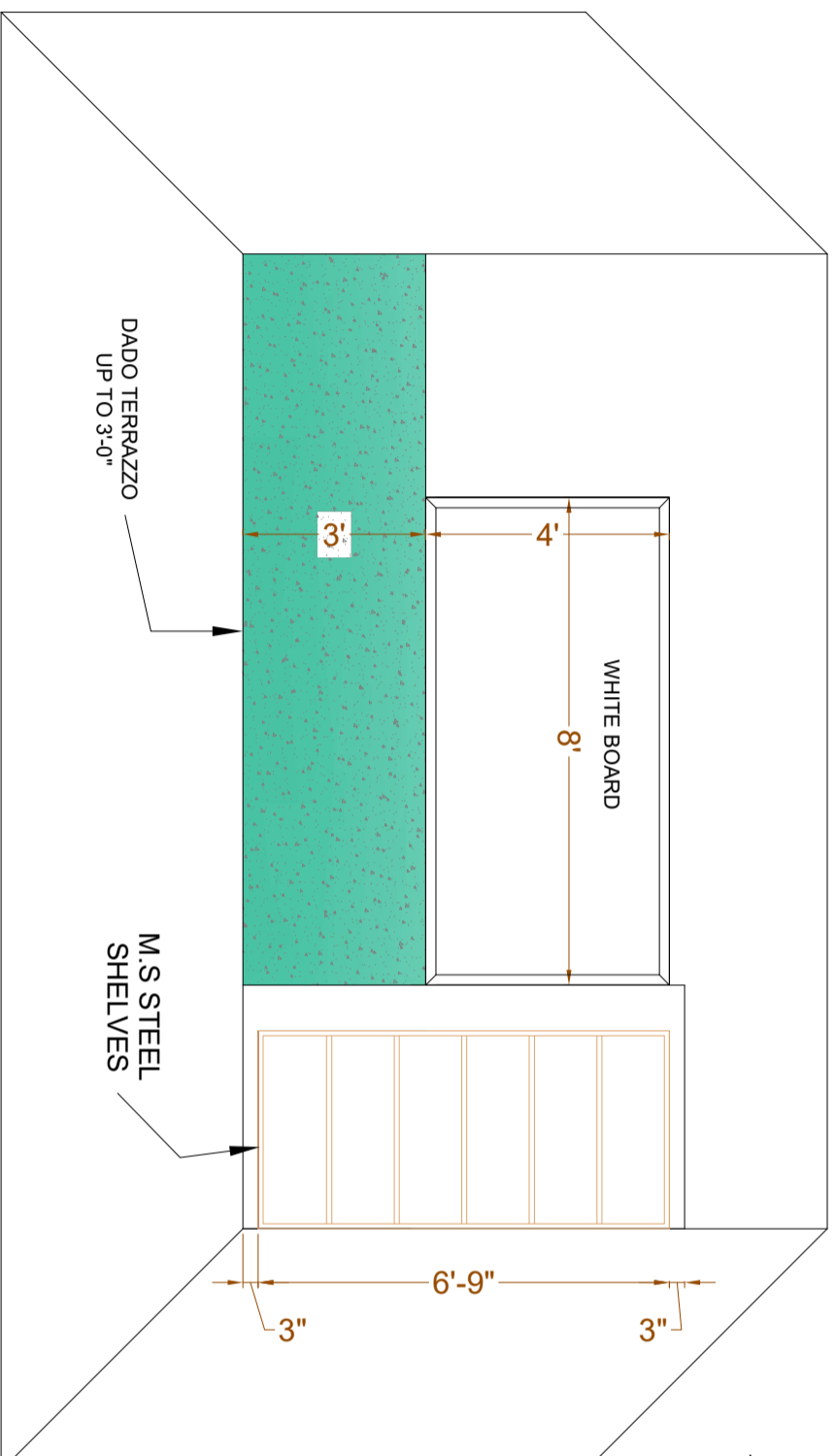


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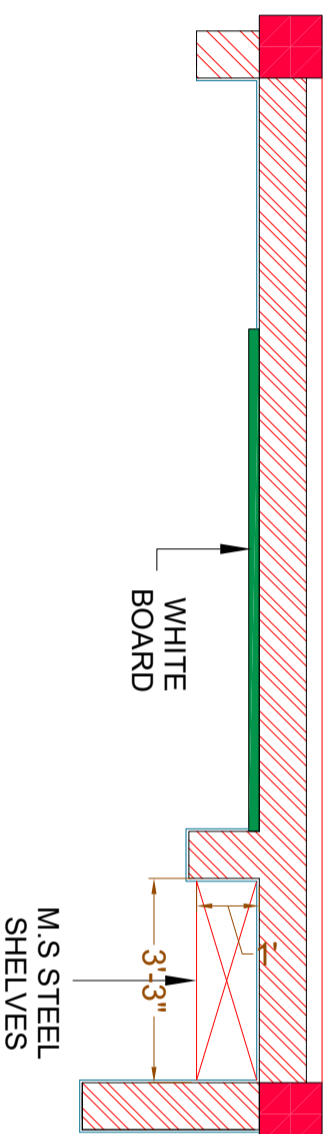
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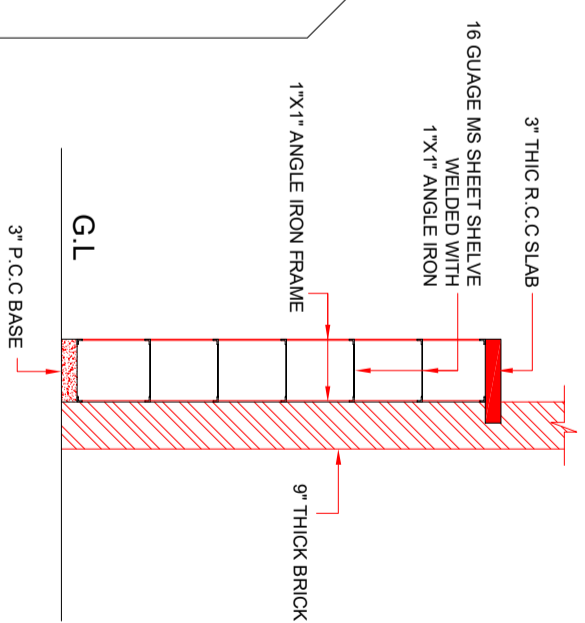
Date of Revision	Prepared By	ARCHITECT	PROJECT:
	FARID KHAN KHANHAIDER	MARWAT KHAN ORAKZAI (B.Arch, D.C.E.T Karachi) (M.Arch, U.E.T. Lahore)	PREPARATION OF DESIGN, DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By		TITLE:
	Checked By		PLINTH PROTECTION, RAIN WATER PIPE, AND ROOF TREATMENT DETAILS
	Approved By		DATE
			SEP 2023
			SCALE
			DRG.NO.
			A-06



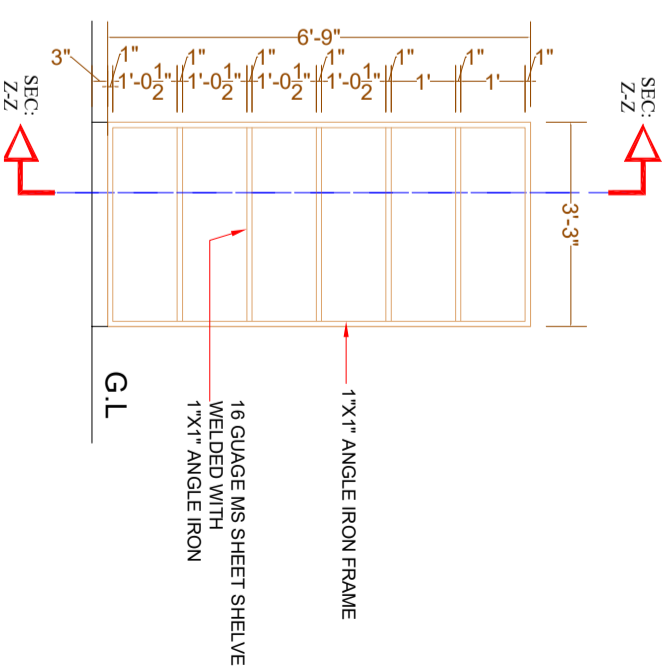
ELEVATION OF WHITE BOARD & CUPBOARD



PLAN OF WHITE BOARD & M.S STEEL SHELVES



SHELVES SECTION AT Z-Z



SHELVES ELEVATION

CLIENT:



CONSULTANTS:



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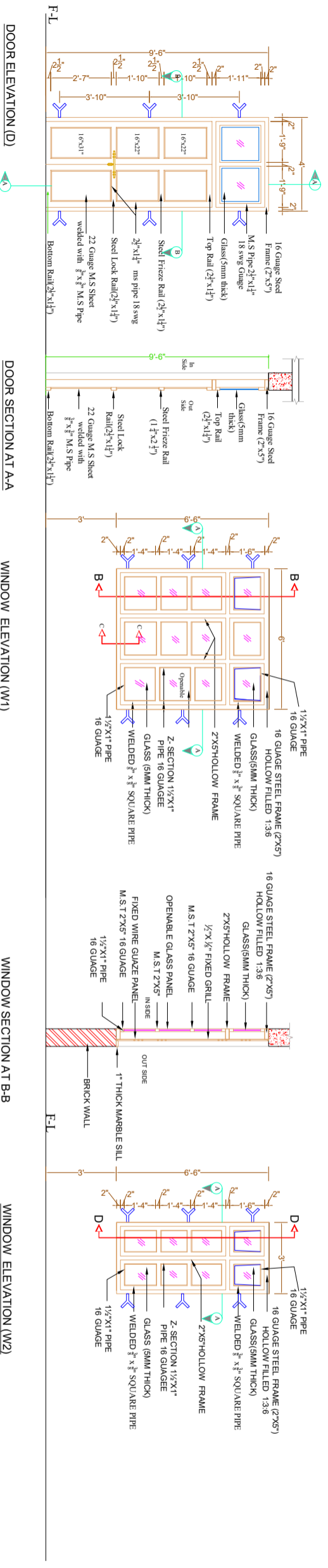
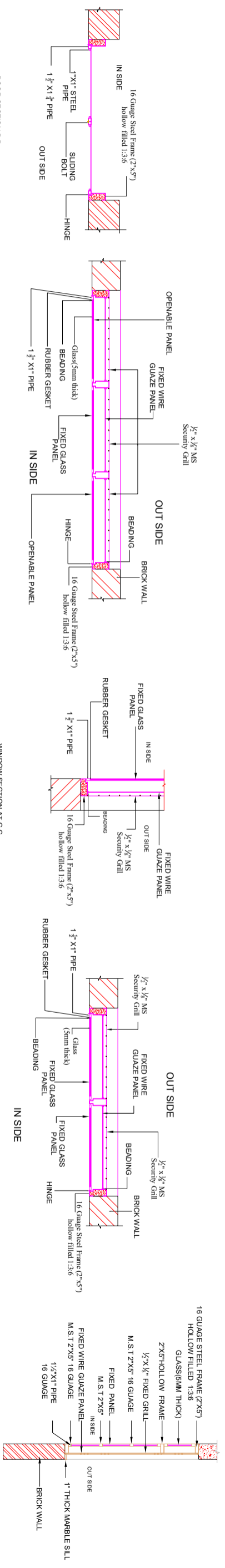
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	FARID KHAN KHAN HADDER	MARWAT KHAN ORAKZAI (B.Arch, D. Cert. Karachi) (M.Arch, UET, Lahore)
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	Checked By	
	Approved By	

PROJECT:	DATE	SCALE	DRG.NO.
PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023		A-07
TITLE:			
PLAN OF WHITE BOARD & M.S STEEL SHELVES			

SCHEDULE OF OPENING			
TYPE	SIZE	S-LEVEL	DESCRIPTION
D1	4'-0" X 9'-6"	0'-0"	STEEL
W1	6'-0" X 6'-6"	3'-0"	STEEL
W2	3'-0" X 6'-6"	3'-0"	STEEL



CLIENT:

 The UN Refugee Agency

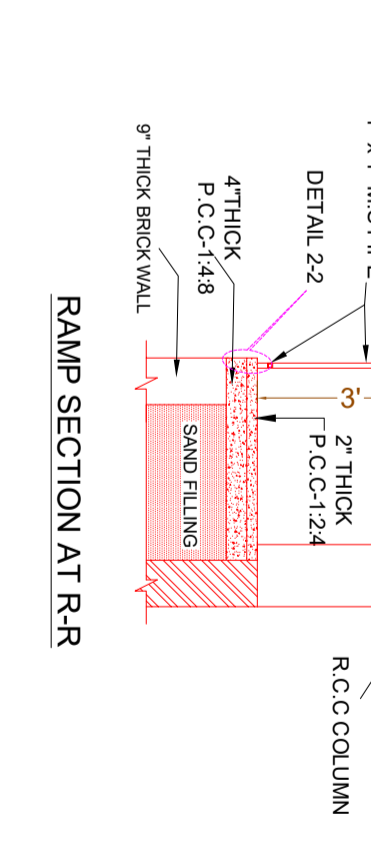
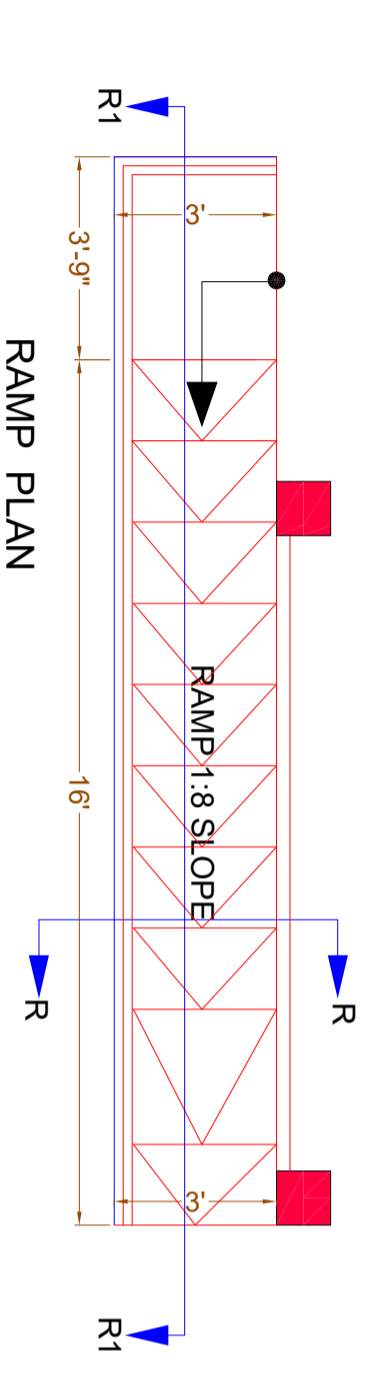
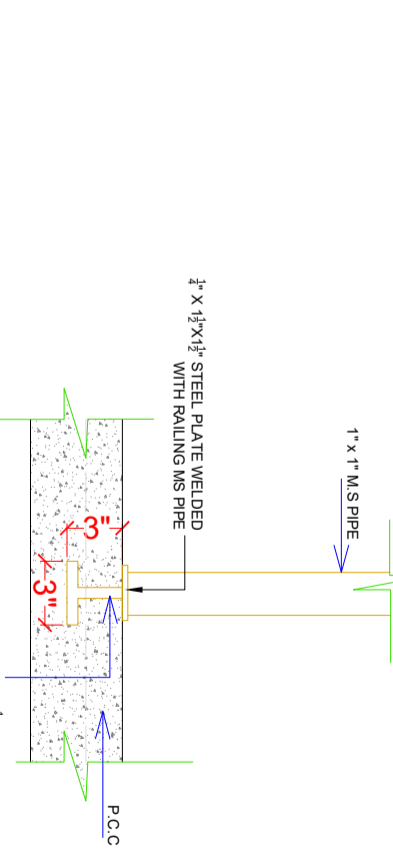
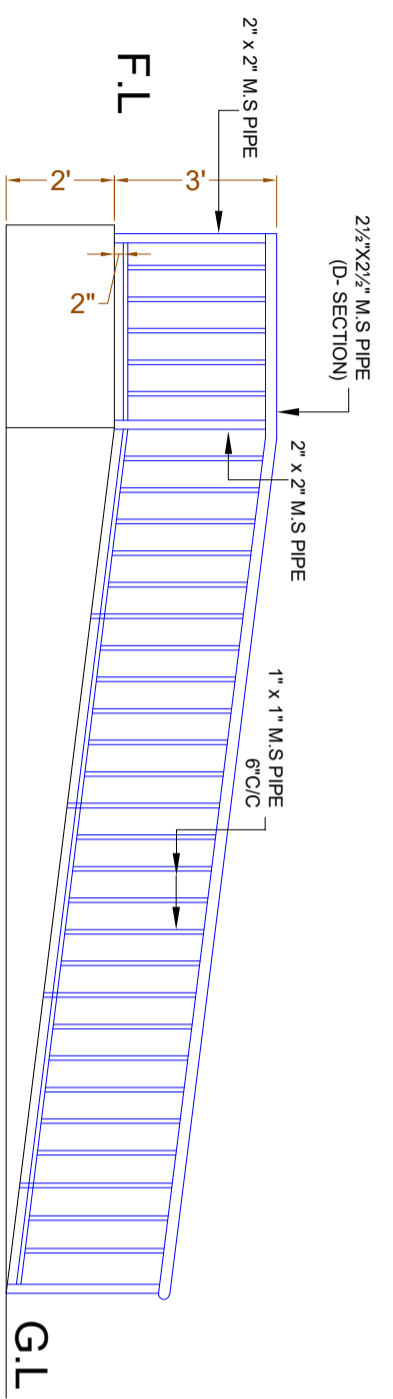
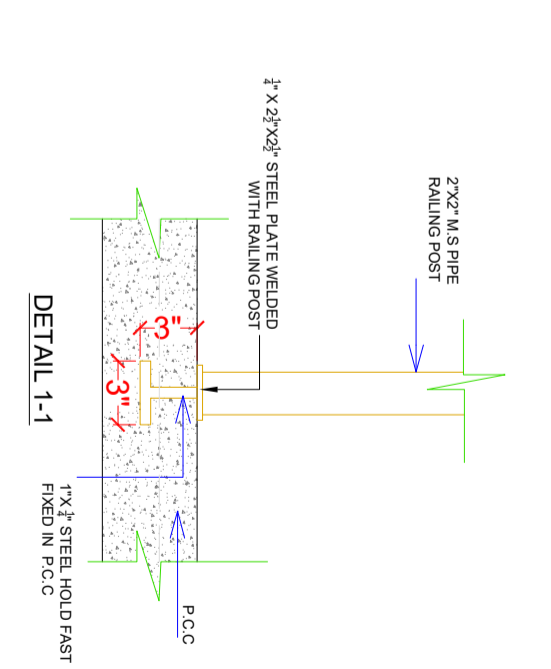
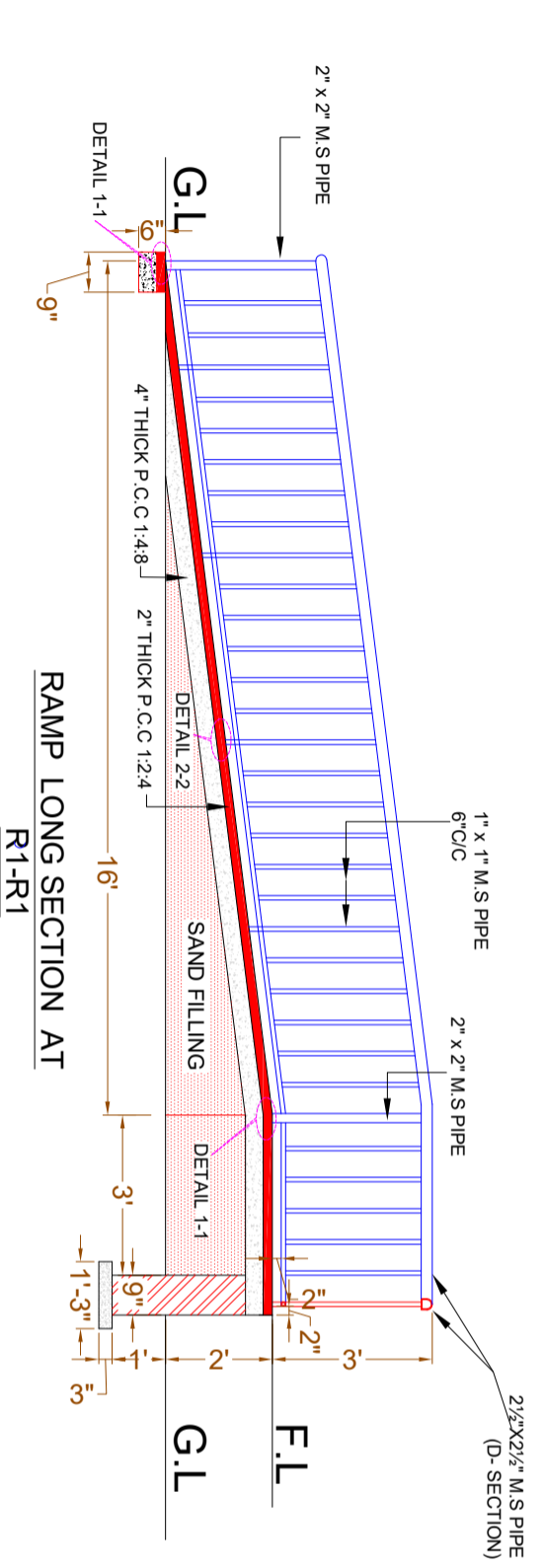
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	Checked By	
	Approved By	

PROJECT:
 PREPARATION OF DESIGN DRAWINGS & BOQS
 FOR CONSTRUCTION/REHABILITATION OF SITES
 TITLE:
DOOR WINDOW DETAILS
 DATE: **SEP 2023** SCALE: DRG. NO. **A-08**



CLIENT:



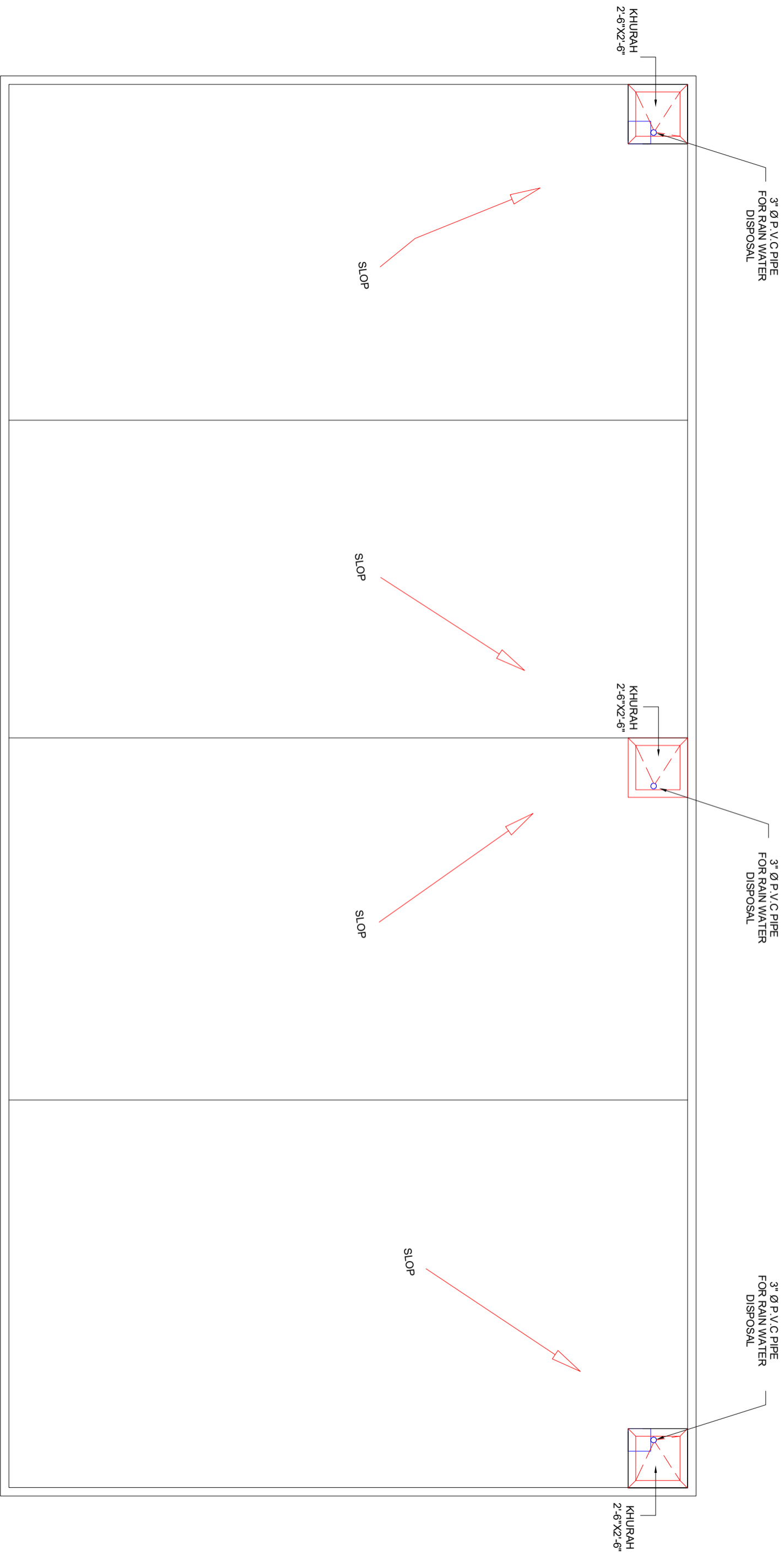
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PROJECT:
 PREPARATION OF DESIGN DRAWINGS & BOQS
 FOR CONSTRUCTION/REHABILITATION OF SITES
 TITLE:
 RAMP DETAILS
 DATE: SEP 2023
 SCALE:
 DRG. NO. A-09



TOP ROOF PLAN

CLIENT:



CONSULTANTS:



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	Designed By	MARWAT KHAN ORAZAI (B.Arch D. CET, Karachi) (M.Arch. UET, Lahore)	PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES TOP ROOF PLAN
	Checked By		
	Approved By		
			DATE: <i>SEP 2023</i> SCALE: DRG.NO: A-10

**STRUCTURE DRAWING
OF
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK**

1. GENERAL

1. READ ALL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, GEOTECHNICAL, PLUMBING, MECHANICAL, ELECTRICAL & ANY OTHER RELEVANT DRAWINGS.
2. NOTES GIVEN IN THIS DRAWING ARE APPLICABLE TO ALL DRAWINGS UNLESS MENTIONED OTHERWISE. NOTES WRITTEN ON A DRAWING, SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS-REFERRED.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS, IN ABSENCE OF ANY SPECIFICATIONS, ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO RELEVANT ACI/BRITISH CODES AND SHALL BE SUBJECTED TO APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURES DURING CONSTRUCTION, HE SHALL ALSO VERIFY ALL DIMENSIONS AND LEVELS BEFORE EXECUTION OF WORK, ANY DISCREPANCY, ERROR OR OMISSION, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR CORRECTION AND APPROVAL.
5. THE CONTRACTOR SHALL CO-ORDINATE WITH VARIOUS SERVICES DRAWINGS FOR SIZES & LOCATION OF ALL STRUCTURAL MEMBERS, FLOORS, WALLS, OPENINGS, FLOOR FINISHES, PIPES ETC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF DEWATERING SYSTEM WHERE SO REQUIRED DURING CONSTRUCTION.
7. ALL DIMENSIONS & LEVELS ARE IN FEET & INCHES.
8. DO NOT SCALE THE DRAWINGS. DIMENSIONS, GIVEN ON THE DRAWING, SHALL GOVERN.
9. ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE ACI/BRITISH SPECIFICATIONS.
10. BACKFILLING AROUND FOUNDATIONS AND WALLS SHALL BE WELL COMPACTED LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS.
11. IT IS STRONGLY RECOMMENDED TO RECONFIRM THE SITE PLAN BEFORE START OF EXECUTION AT SITE, THE SITE SHOULD BE EXAMINED FOR CLEARANCE WITH RESPECT TO LOCAL/SEISMIC HAZARDS.
12. THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS IN THE STRUCTURE AND OBTAIN ENGINEERS APPROVAL THEREOF BEFORE COMMENCING THE WORK.
13. THE CONTRACTOR SHALL VERIFY LAYOUT, CONFIGURATION, ALL DIMENSIONS AND LEVELS PERTAINING TO EXISTING WORKS BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL ADOPT ADEQUATE AND APPROPRIATE MEASURES SO AS NOT TO DAMAGE THE EXISTING WORKS.
14. THE CONTRACTOR SHALL EXERCISE UTMOST CARE AND PRECAUTION DURING THE WORKS, AGAINST ANY MISHAPS OR ACCIDENTS, FOR WHICH THE CONTRACTOR SHALL BE WHOLLY AND SOLELY RESPONSIBLE. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ANY ACCIDENTS AND ANY LOSSES THEREFROM AND SHALL REPAIR AND RECTIFY THEM AT HIS OWN COST AND TIME.
15. ANY DEPARTURES/DEVIATIONS DESIRED FROM THE DESIGN OR SPECIFICATIONS, OR SOLUTIONS TO ANY PROBLEMS ENCOUNTERED, SHALL BE GOT APPROVED FROM THE ENGINEER PRIOR TO IMPLEMENTATION. UNAPPROVED DEPARTURES/DEVIATIONS MAY LEAD TO REJECTION/REPLACEMENT OF THE ENTIRE WORK AT THE CONTRACTOR'S COST.
16. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND BAR BENDING SCHEDULES. THE ENGINEER'S APPROVAL SHALL NOT RELIEVE THE APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS AND BAR BENDING SCHEDULES. FOR ENGINEER'S APPROVAL AND OBTAIN HIS CONTRACTOR FROM HIS RESPONSIBILITY.
17. The allowable bearing capacity of soil should be 1st.

2. SHORING AND BRACING

1. SHORE & BRACE ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION, TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH & SERVICEABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS WHICH MAY OCCUR DURING CONSTRUCTION. SUCH SHORING & BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE SLOPES AND SHALL PROVIDE SHORING AND BRACING DURING EXCAVATION AND CONSTRUCTION, WHEREVER AND WHENEVER REQUIRED.
3. SEQUENCE OF REMOVAL OF FORMWORK SHALL BE APPROVED BY THE ENGINEER, AT LEAST ONE LOWER FLOOR SHALL REMAIN PROPPED UNTILL THE UPPER FLOOR IS CAST AND CURED.

3. REINFORCED CONCRETE

1. STRUCTURAL DESIGN IS BASED ON THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF AMERICAN CONCRETE INSTITUTE (ACI 318).
2. ALL STRUCTURAL CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) REQUIREMENTS.
3. CONCRETE MIX TO BE DESIGNED ON THE BASIS OF ACI 211 OR EQUIVALENT. TRIAL STRENGTH RESULTS TO BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BEFORE CONCRETING.
4. NO CONCRETING SHALL BE CARRIED OUT UNTIL PERMISSION IS GIVEN IN WRITING OR APPROVED BY STRUCTURE ENGINEER.
5. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARDS C31, C39, C143 & AS WRITTEN IN SPECIFICATIONS AND THE MINIMUM CYLINDER CRUSHING STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS. TESTING OF CLASS D & E CONCRETE SHALL BE PERFORMED IF SO SHAHEED CHAWK EXACT, NEAR ALFALAH FURNITURE LOWER DIRECTED BY THE ENGINEER.

CLASS	MIN. CYLINDER CRUSHING STRENGTH AT 28 DAYS (psi).
A	4000
B	3000
C	2400
D	1200
E	800

6. CLASS OF CONCRETE FOR DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE AS FOLLOWS UNLESS NOTED OTHER WISE:

COMPONENT	CONCRETE CLASS
COLUMNS	CLASS 'A'
SLABS, BEAMS, FOUNDATION	CLASS 'A'
RCC WALLS	CLASS 'B'
PCC STEPS	CLASS 'D'
LEAN / BLINDING CONCRETE	CLASS 'E'
ORDINARY PORTLAND CEMENT SHALL BE USED FOR ALL CONCRETE WORKS.	
AN INTEGRAL WATER PROOFING AGENT SHALL BE USED IN CONCRETE THAT IS CONSTANTLY OR INTERMITTENTLY IN CONTACT WITH WATER AS PER MANUFACTURER'S RECOMMENDATIONS (GENCON GENPRUF RMG OR PENETRON ADMIX OR EQUIVALENT).	
ALL DETAILING SHALL BE DONE AS PER ACI STANDARDS ACI-315, ACI-318 & ACI-350R.	

4. REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI. FOR STIRRUPS, TIES AND #3 BARS USE ASTM A615, GRADE 60 HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI.
 2. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED STRENGTH BY MORE THAN 18,000 PSI (RETETS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI)
 3. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRENGTH TO THE TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25
- L-GREATER CLEAR SPAN, 4x-DIAMETER OF BAR, d-EFFECTIVE DEPTH
- THE FIRST HOOP SHALL BE LOCATED NOT MORE THAN 2" FROM THE FACE OF THE SUPPORTING MEMBER.
- WHERE:

7. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACEMENT OF CONCRETE, BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
8. LINTELS ARE EXTENDED AT 9 (INCHES) FROM BOTH SIDES OF OPENING.
9. PROVIDE 135° HOOK IN ADJACENT STIRRUPS ON ALTERNATE SIDES.

5. CONCRETE CONSTRUCTION

1. ALL STRUCTURAL SURFACES, AGAINST WHICH EARTH IS TO BE FILLED, SHALL BE COATED WITH TWO COATS OF HOT BITUMEN OF 10/20 GRADE AT THE RATE OF 0.2 lbs/ft²/coat.
2. PROVIDE POLYTHENE SHEET OVER TWO COATS OF HOT BITUMEN AT TOP OF PLINTH BEAM/DPC FOR EXTERIOR WALLS.
3. BEFORE CASTING OF ANY STRUCTURAL MEMBER, THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED AND FIRMLY SECURED IN PLACE.
4. DURING CONSTRUCTION, STACKING OF CONSTRUCTION MATERIALS, BLOCKS, etc. SHOULD BE AVOIDED ON SLAB PANELS.

6. BRICK WORK

1. ALL BRICK WORK SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
2. ALL BRICK SHALL BE SOUND, HARD, WELL BURNED AND OF UNIFORM SIZE COLOUR AND TEXTURE. DIMENSIONAL VARIATION IN SIZES SHALL NOT EXCEED 1/8". BRICKS SHOULD BE IN ACCORDANCE WITH SPECIFICATIONS AND SHOULD CONFORM TO ASTM 082.
3. ALL BRICK WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 1/8" IN 10'-0".
4. MORTAR USED IN MASONRY CONSTRUCTION SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 12 MPa (1800psi) AND SHALL CONFORM TO ASTM C270.
5. COMPRESSIVE STRENGTH OF BRICK MASONRY AVERAGE OF 5 UNITS AT 28 DAYS SHALL NOT BE LESS THAN AS SPECIFIED IN SPECIFICATION AND SHALL CONFORM TO RELEVANT ASTM STANDARD.
6. ALL DESIGN, DETAILING, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT ACI, ASTM, AND UBC CODES AND STANDARDS.
7. BRICK SHALL BE LAID "FROG" UPWARD WITH MORTAR JOINT AND IN ENGLISH FLEMISH BOND OR AS SHAHEED CHAWK EXACT, NEAR ALFALAH FURNITURE LOWER DIRECTED BY THE ENGINEER.
8. BRICKS SHOULD BE SOAKED WITH WATER PROPERLY BEFORE USE.
9. VERTICAL JOINTS SHOULD BE STAGGERED.
10. ALL MASONRY WALLS SHALL BE ANCHORED TO STRUCTURAL FRAME WORK AS INDICATED ON THE DRAWINGS

CLIENT:



The UN Refugee Agency

CONSULTANTS:



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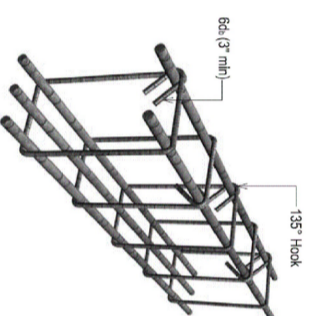
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK

Date of Revision	Prepared By	Checked By	Approved By
	FAHD KHAN KIYAN HAIDER STRUCTURE ENGINEER	Engr. HUMZA AHMAD	
	Designed By		
	Checked By		
	Approved By		

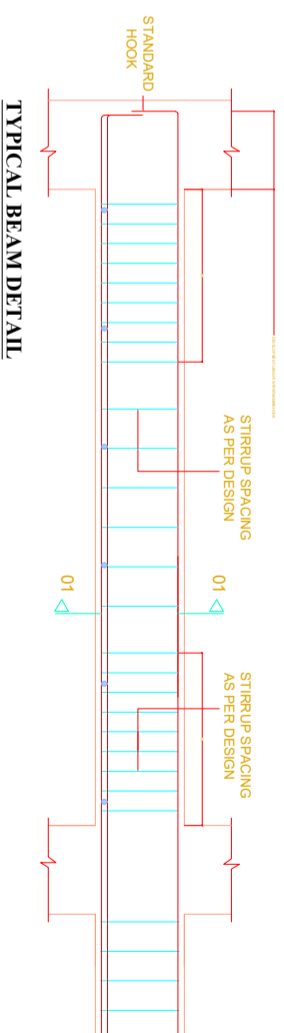
PROJECT:	TITLE:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES	GENERAL NOTES	SEP 2023		S-01

7. CONSTRUCTION JOINTS

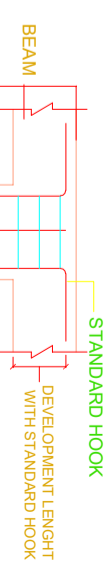
1. JOINTS, NOT SHOWN ON THE DRAWING, SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. THEY SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLAB & BEAMS. JOINTS IN WALLS & COLUMNS SHALL BE AT THE UNDER-SIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS.
2. JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS THE JOINTS.
3. JOINTS IN BASE SLAB & WALLS AND ROOF SLAB, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR. BEAMS & BRACKETS SHALL BE PLACED AT THE SAME TIME AS SLABS.



SEISMIC HOOK DETAILS



TYPICAL BEAM DETAIL



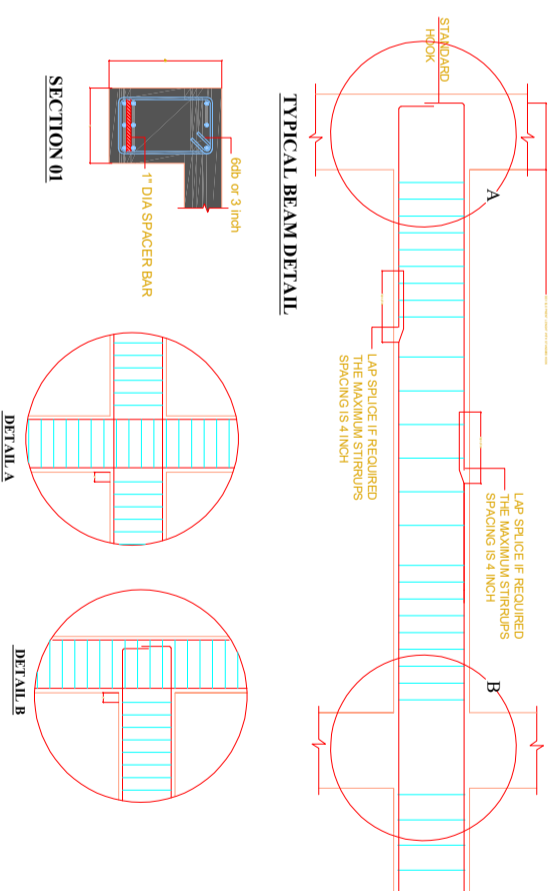
TYPICAL COLUMN DETAIL

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)	
BAR DIA	DEVELOPMENT LENGTH (INCHES)
3/8"	18
1/2"	24
3/4"	30
1"	48

SPICE LENGTH (ACI 21.3.2.4, Class B Splice)	
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES)
3/8"	15
1/2"	20
3/4"	30
1"	48

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)	
BAR DIA	DEVELOPMENT LENGTH (INCHES)
1/2"	22
5/8"	30
3/4"	34
1"	55

SPICE LENGTH (ACI 21.3.2.4, Class B Splice)	
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES)
1/2"	25
5/8"	-
3/4"	-
1"	-



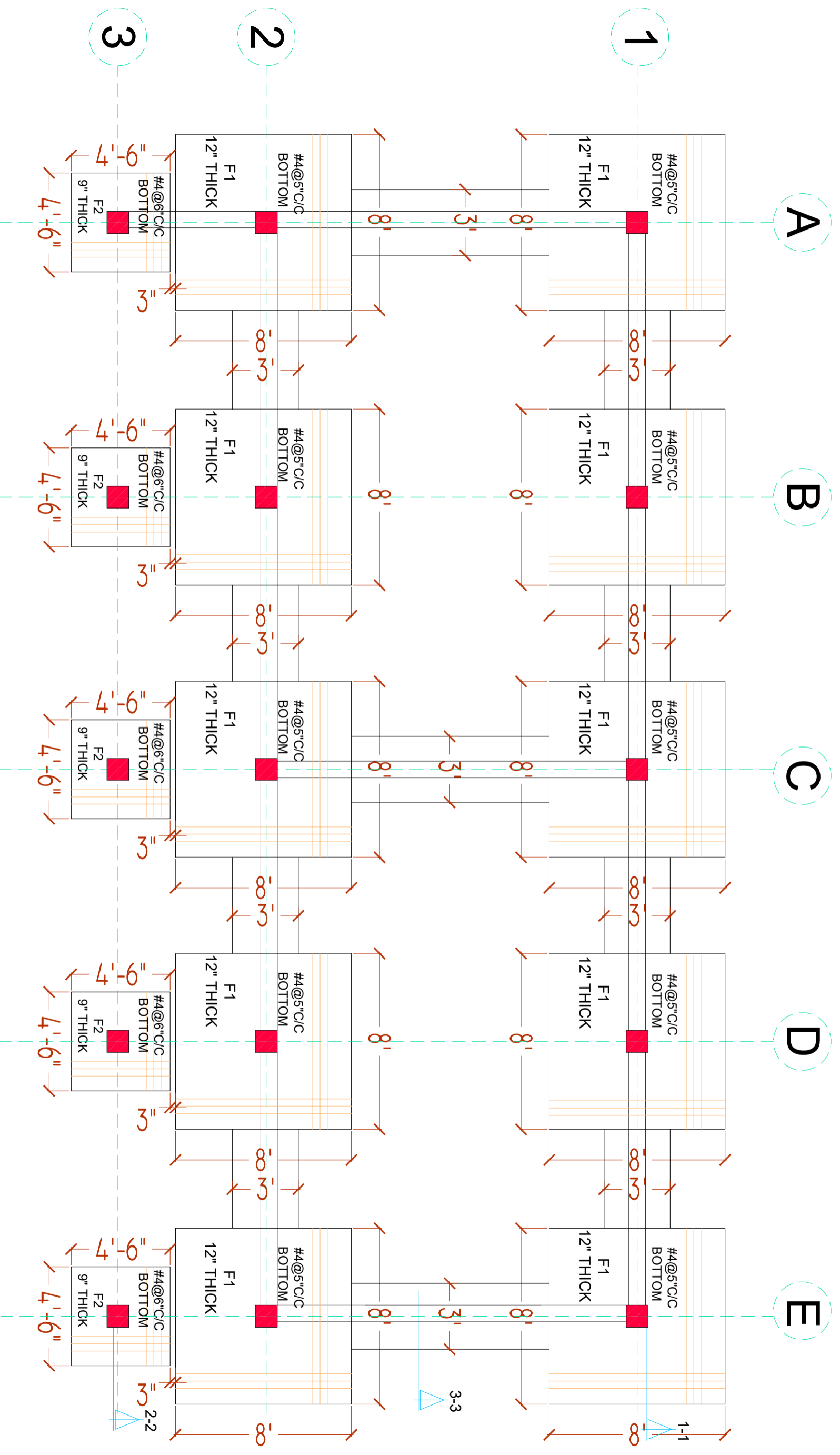
TYPICAL BEAM DETAIL

SECTION 01

DETAIL A

DETAIL B

<p>CLIENT:</p> <p>CONSULTANTS:</p> <p>PLANNERS CONSULTANTS ENGINEERS (PCE)</p> <p>97-K Industrial Estate, Hayatabad Peshawar Pakistan Ph: 0092-91-5816017, 5891661-4, Fax: 5891845 E-Mail: pce.pesh@yahoo.com</p>	<p>SCHOOL NAME</p> <p>GBHSS HASSAN ABDAL TEHSIL & DISTRICT ATTOCK</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Date of Revision</td> <td style="width: 33%;">Prepared By</td> <td style="width: 33%;">FARID KHAN KIANNI AIDER</td> </tr> <tr> <td></td> <td>Designed By</td> <td>Engr. HUMZA AHMAD</td> </tr> <tr> <td></td> <td>Checked By</td> <td></td> </tr> <tr> <td></td> <td>Approved By</td> <td></td> </tr> </table>	Date of Revision	Prepared By	FARID KHAN KIANNI AIDER		Designed By	Engr. HUMZA AHMAD		Checked By			Approved By		<p>PROJECT:</p> <p>PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES</p> <p>TITLE: GENERAL NOTES</p> <p>DATE: SEP 2023</p> <p>SCALE:</p> <p>DRG.NO.: S-02</p>
Date of Revision	Prepared By	FARID KHAN KIANNI AIDER													
	Designed By	Engr. HUMZA AHMAD													
	Checked By														
	Approved By														



FOUNDATION PLAN

CLIENT:



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Date of Revision	Prepared By	STRUCTURE ENGINEER:
	Eng. HUMZA AHMAD	
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	Approved By	

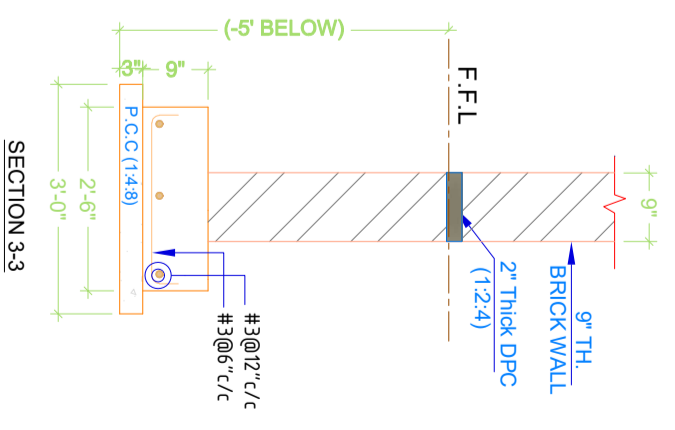
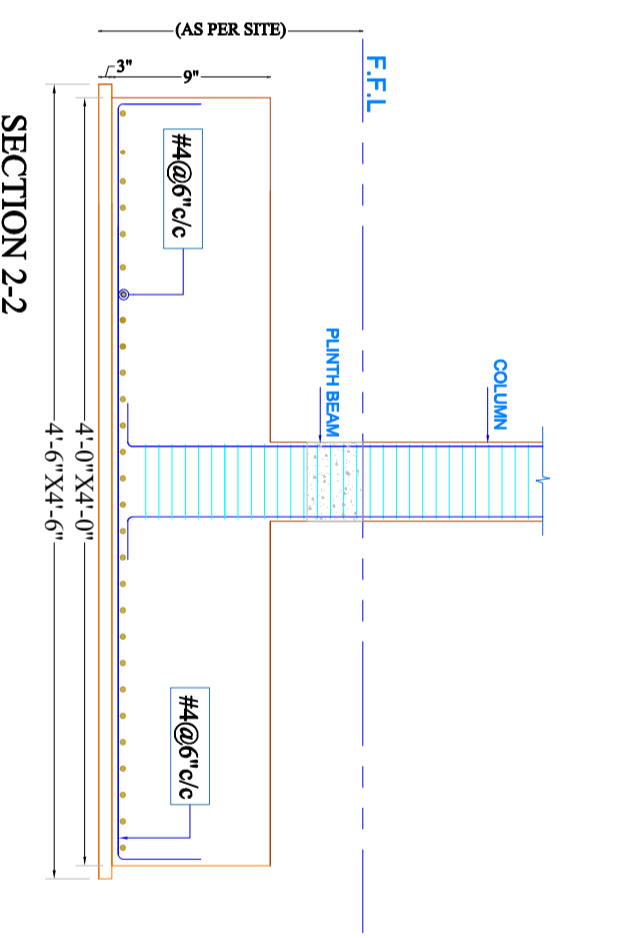
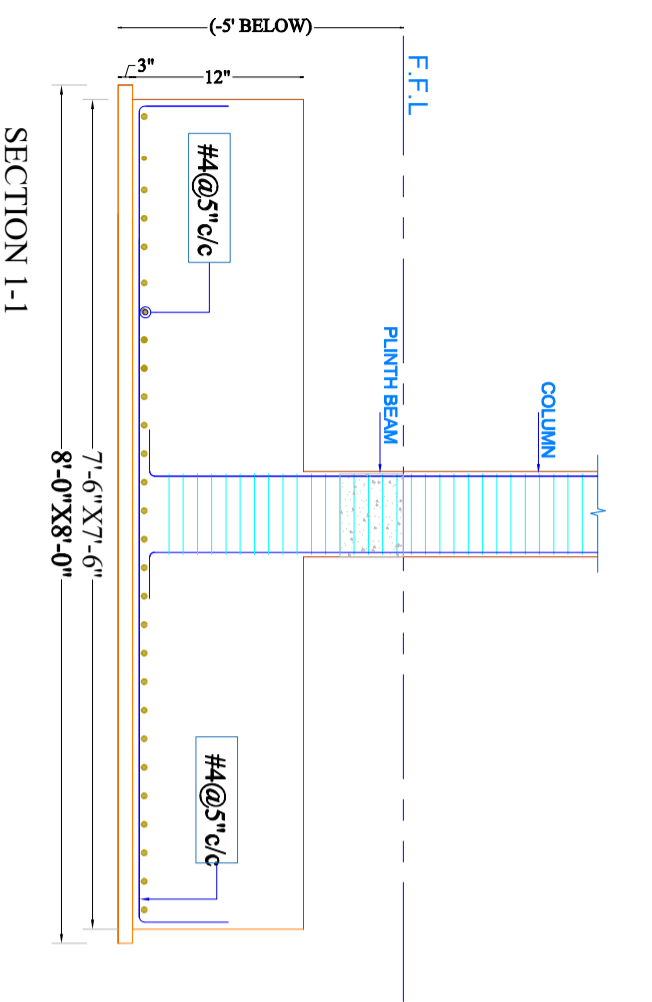
PROJECT:
 PREPARATION OF DESIGN, DRAWINGS & BOQS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
 FOUNDATION PLAN

DATE: SEP 2023

SCALE:

DRG.NO.: S-03



CLIENT:



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	Checked By	
	Approved By	

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

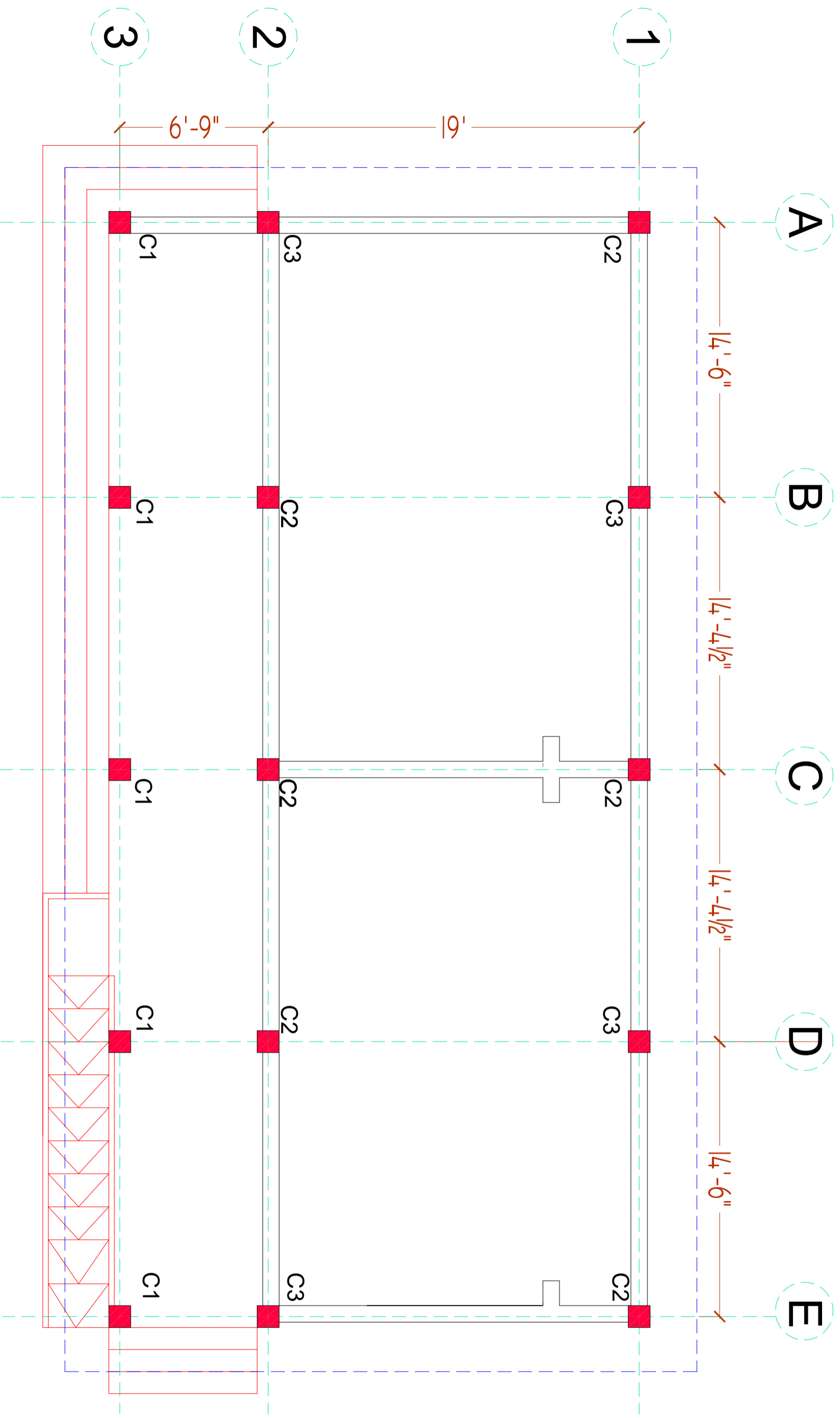
TITLE:

FOUNDATION SECTION DETAIL

DATE: SEP 2023

SCALE:

DRG. NO.: S-04



GROUND FLOOR COLUMN LAYOUT PLAN

CLIENT:



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CONSULTANTS:



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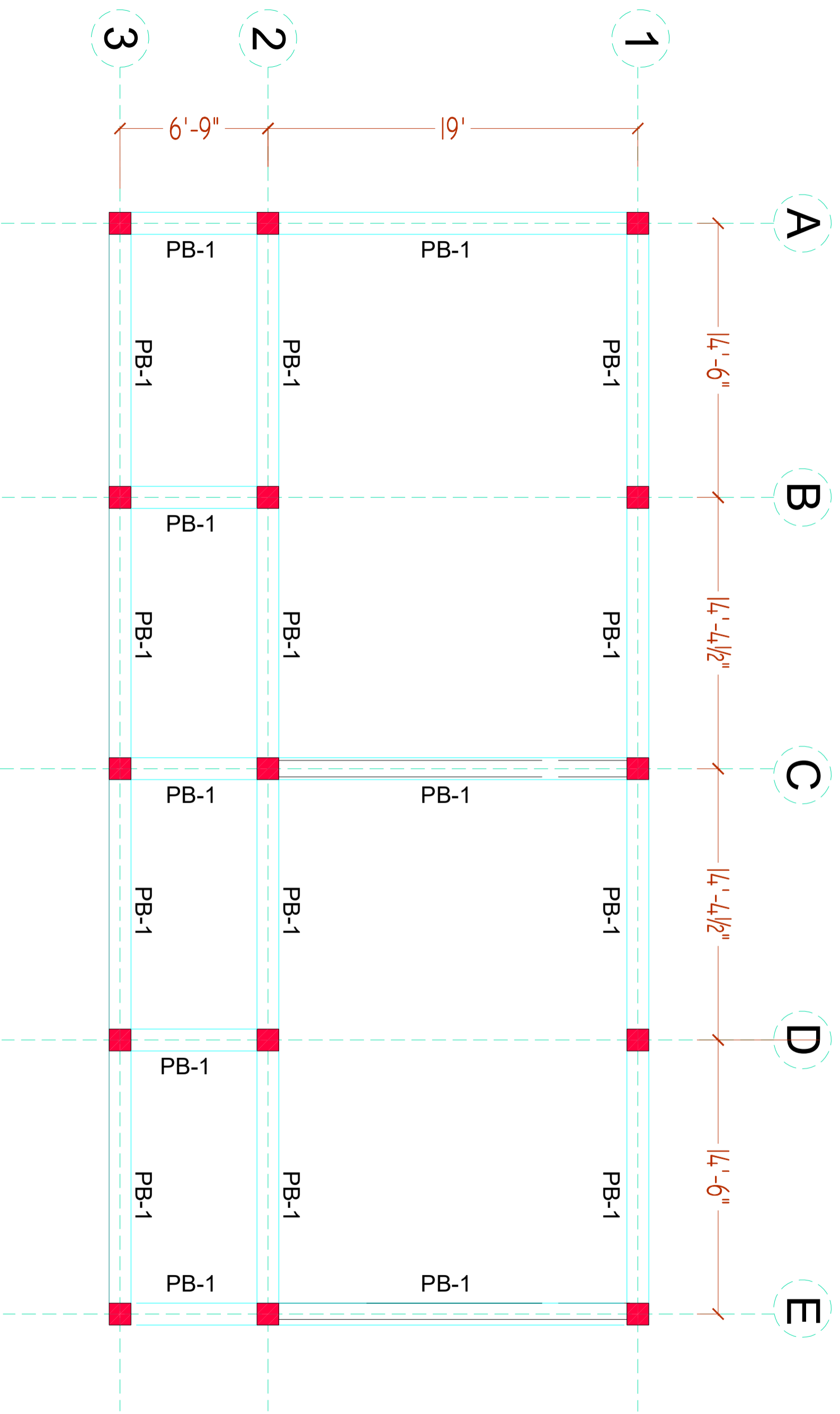
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	Approved By	

PROJECT:		
PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE: GROUND FLOOR COLUMN LAYOUT PLAN		
DATE	SCALE	DRG. NO.
SEP 2023		S-05



PLINTH BEAM PLAN

CLIENT:



CONSULTANTS:



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PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOQS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:

PLINTH BEAM PLAN

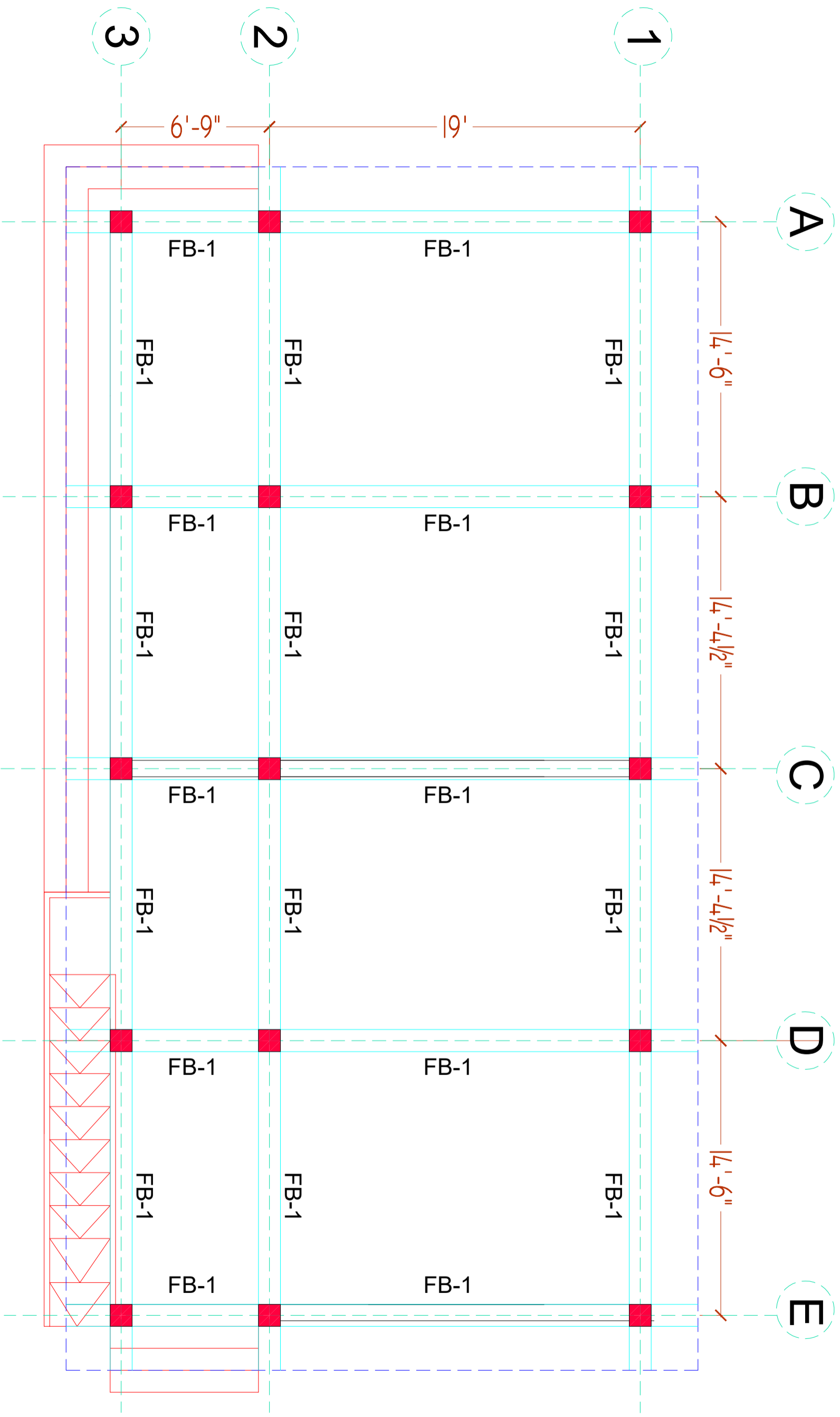
DATE

SEP 2023

SCALE

DRG.NO.

S-06



GROUND FLOOR BEAM PLAN

CLIENT:

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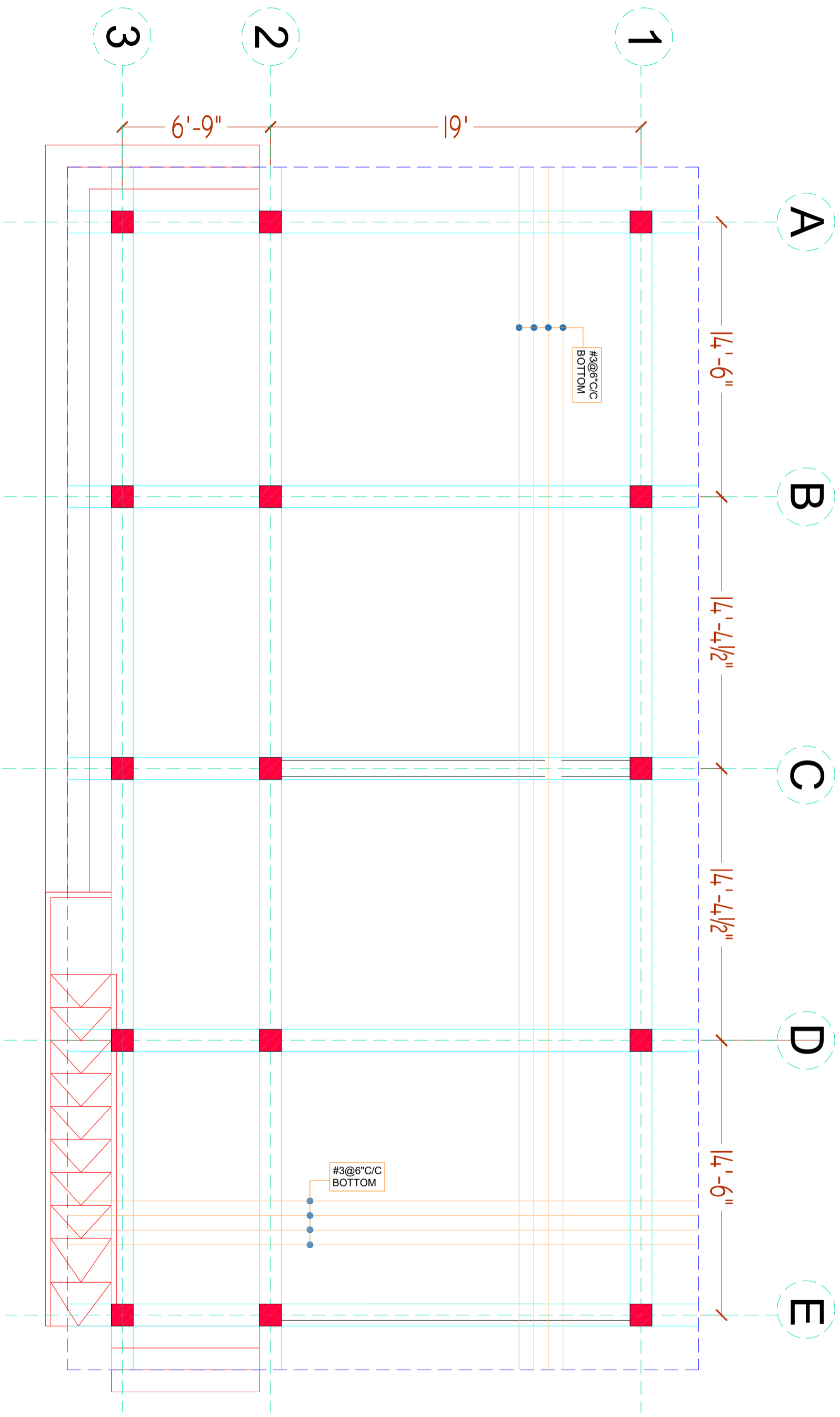
SCHOOL NAME
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Date of Revision	Prepared By	Checked By	Approved By
	FARID KHAN KIYAN HANIDER STRUCTURE ENGINEER	ENGR. HUMZA AHMAD	
	Designed By	Checked By	Approved By

PROJECT:
 PREPARATION OF DESIGN DRAWINGS & BOQS
 FOR CONSTRUCTION/REHABILITATION OF SITES



TITLE:
 GROUND FLOOR BEAM PLAN

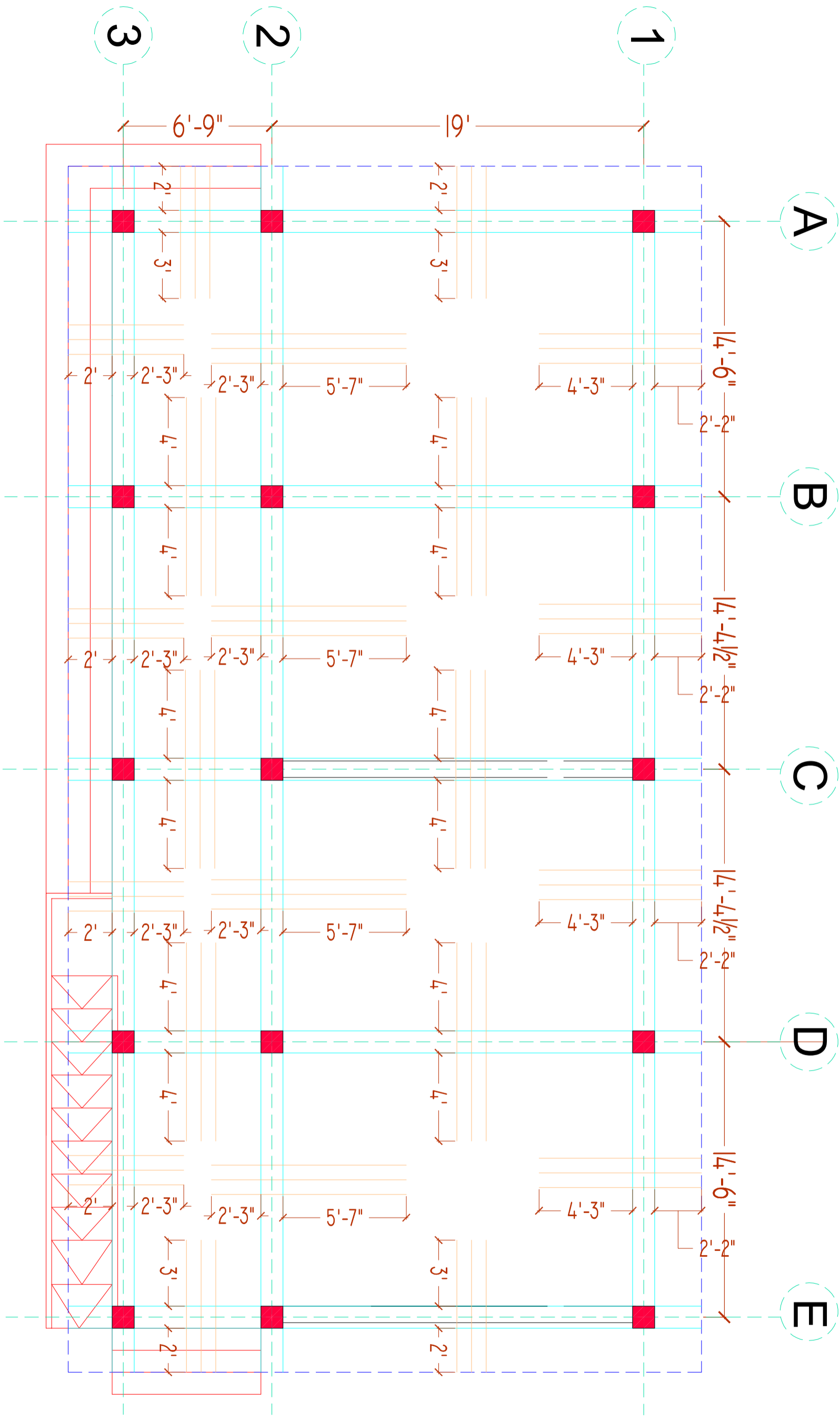
DATE: **SEP 2023** SCALE: DRG.NO: S-07



NOTE:
SLAB THICKNESS = 6"

GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN

CLIENT: 		CONSULTANTS: 	
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Date of Revision	Prepared By FARID KHAN KHAN HAIDER STRUCTURE ENGINEER	PROJECT: PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	TITLE: GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN
Designed By Engr. HUMZA AHMAD	Checked By	DATE SEP 2023	SCALE DRG.NO. S-08
Approved By			



GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

NOTE:
SLAB THICKNESS = 6"
TOP REINFORCEMENT = #4@8"/C/C

CLIENT:



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SCHOOL NAME

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Date of Revision	Prepared By	STRUCTURE ENGINEER:	PROJECT:
	Farid Khan	KHAN HAIDER	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By	Engr. HUMZA AHMAD	TITLE:
	Checked By		GROUND FLOOR SLAB TOP REINFORCEMENT PLAN
	Approved By		DATE: SEP 2023
			SCALE: DRG.NO: S-09

COLUMN TYPES	COLUMN C1	COLUMN C2	COLUMN C3
GROUND FLOOR			
T1	# 3 @ 4" C/C	# 3 @ 4" C/C	# 3 @ 4" C/C
TIES	# 3 @ 4" C/C	# 3 @ 4" C/C	# 3 @ 4" C/C
T2	# 3 @ 4" C/C	# 3 @ 4" C/C	# 3 @ 4" C/C
T3	# 3 @ 4" C/C	# 3 @ 4" C/C	# 3 @ 4" C/C

CLIENT:

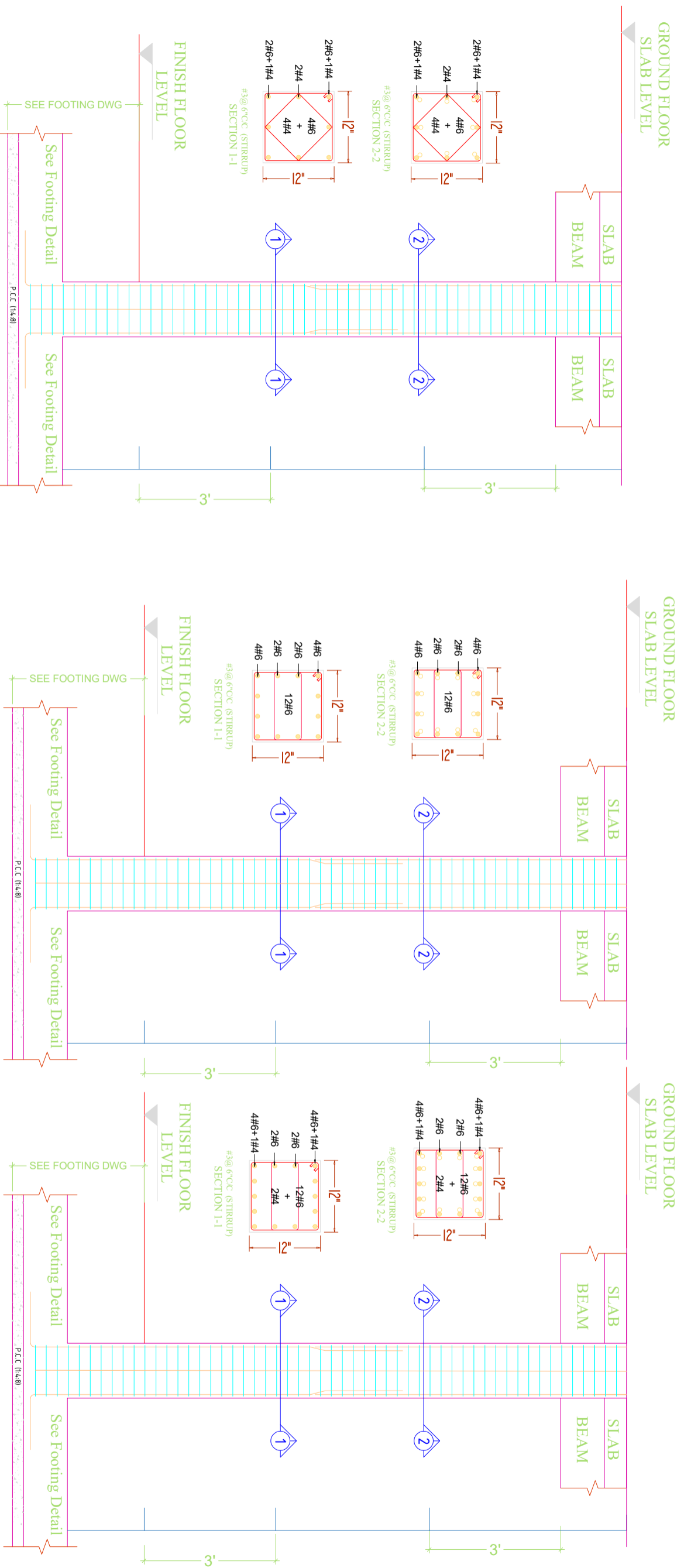


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SCHOOL NAME

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Date of Revision	Prepared By	FAKID KHAN KHAN HADDER STRUCTURE ENGINEER	PROJECT:
	Designed By	Engr. HUMZA AHMAD	PREPARATION OF DESIGN DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		TITLE: COLUMN DETAIL
	Approved By		DATE: SEP 2023
			SCALE: DRG.NO. S-10



COLUMN LONG SECTION C1

COLUMN LONG SECTION C2

COLUMN LONG SECTION C3

CLIENT:



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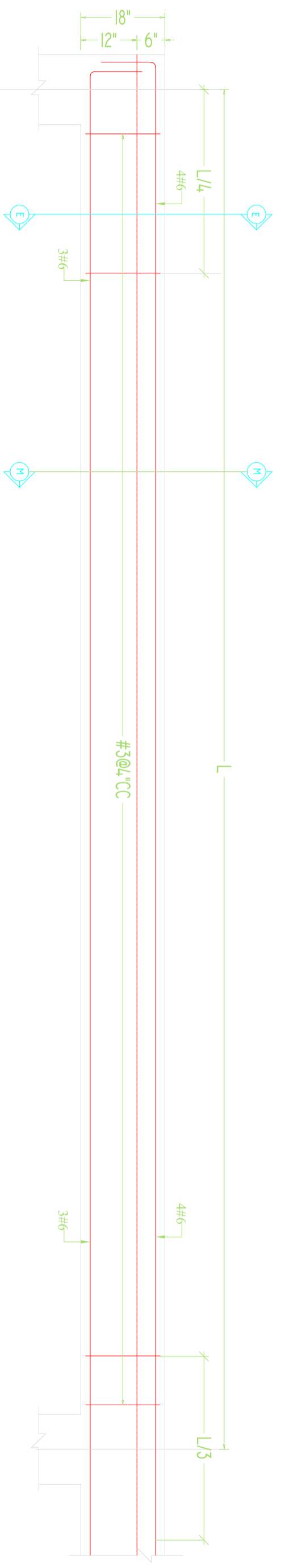
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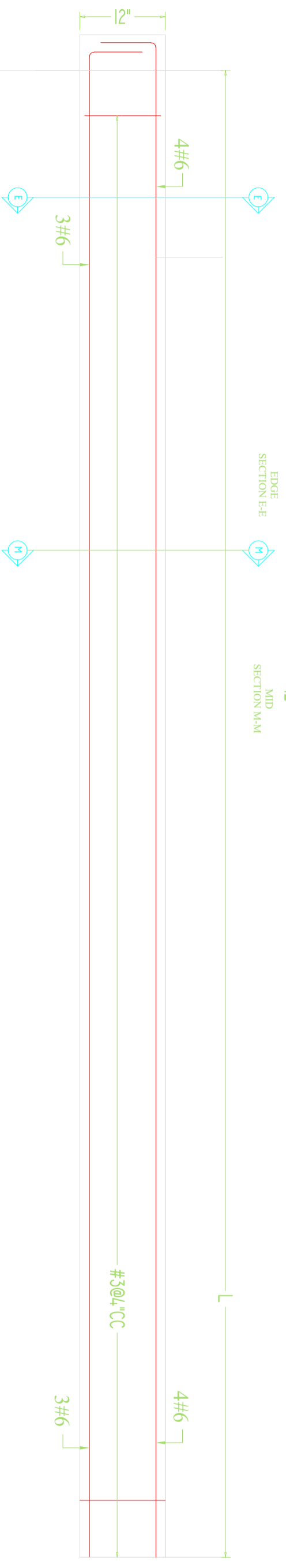
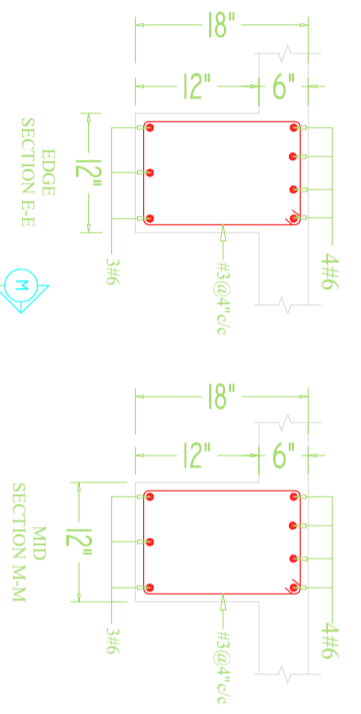
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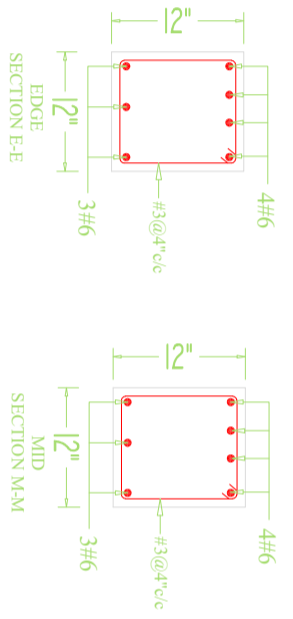
Date of Revision	Prepared By	STRUCTURE ENGINEER:	PROJECT:
	Engr. KHAN KHAN	Engr. HUMZA AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Designed By		
	Checked By		
	Approved By		TITLE: COLUMN DETAIL
			DATE: SEP 2023
			SCALE
			DRG.NO: S-11



TYPICAL ELEVATION OF FB-1



TYPICAL ELEVATION OF PB-1



CLIENT:



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SCHOOL NAME

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	Approved By	

PROJECT:	DATE	SCALE	DRG.NO.
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023		S-12
TITLE:			
BEAM DETAIL			

**ELECTRIFICATION DRAWINGS OF
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK**

ELECTRICAL DRAWINGS		
1	GENERAL NOTES	E-01
2	APPROVED MANUFACTURE LIST	E-02
3	LEGEND	E-03
4	GROUND FLOOR PLAN	E-04
5	GROUND FLOOR DIMENSION PLAN	E-05
6	SECTION	E-06
7	EARTHING DETAIL PLAN	E-07
8	MAIN DISTRIBUTION BOARD	E-08
9	LOAD CALCULATION	E-09

CLIENT:



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	Checked By	
	Approved By	

PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOQS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:	LIST OF DRAWINGS
DATE	SEPT 2023
SCALE	
DRG.NO.	E-00

ELECTRICAL SYSTEMS

FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.

1. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS THE SITE CONDITIONS NECESSITATE ALTERATION OR DEVIATION OF THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
2. DIMENSIONS / MEASUREMENTS IS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITION OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
4. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
5. ALL NON CURRENT CARRYING PARTS i.e OUTER CASINGS OF EQUIPMENT SUCH AS H.T & IT PANELS, DISTRIBUTION BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTION FOR EQUIPMENT ETC. SHALL BE CONNECTED TO THE GROUND-EARTHING SYSTEM AS REQUIRED NUMBER OF POINTS WITH SPECIFIED SIZES OF CONDUCTORS. WATER PIPES ALONG ELECTRICAL LINE SHALL BE BONDED TO THE EARTHING SYSTEM WITH TO 10MMsq SINGLE CORE COPPER CONDUCTOR PVC CABLE.
6. 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.
7. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENT SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASY OF MAINTENANCE.
8. LOAD ON ALL PHASES SHALL BE MAXIMUM BALANCED AT THE TIME OF COMMISSIONING STAGE. IT IS RESPONSIBILITY OF CONTRACTOR.
9. CONDUIT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP TO CONDUIT TO FINISH FLOOR LEVEL.
10. ALL WIRING SHOULD BE CARRIED OUT ACCORDING TO THE PHASES RED, YELLOW, BLUE CABLE COLOUR ARE AS PER PHASE DISTRIBUTION IN BUILDING.
11. RUN WHITE OR WHITE SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZE AS PROTECTIVE EARTH CONDUCTOR (LCC) ALL ALONG LIGHT AND POWER WIRING WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING OR LITERA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR (ECC) IN RELATION TO THE AREA OFFICE PHASE CONDUCTORS RUN SEPARATE ECC FOR EACH CIRCUIT.
-ECC 2 PHASE CONDUCTOR OF SAME SIZE FOR UPTO AND INCLUDING 16 MMSQ CABLES
-FOR CABLES OF 50 MM SQ AND ABOVE SIZES IS HALF SIZE OF PHASE CONDUCTOR
-MINIMUM SIZE ECC IS 70MM SQ.
12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE FLEXIBLE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMILAR TONCOUS 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

NUMBER OF CABLE IN (CONDUIT)	SIZE OF CABLE		
NEW STANDER SIZE MM sq	25 MM (1")	20 MM (¾")	15 MM (½")
1.5 MM sq	13	8	5
2.5 MM sq	10	6	4
4 MM sq	7	4	3
6 MM sq	5	3	2
10 MM sq	3	2	1

14. NORMAL & EMERGENCY CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS.
15. THE WIRING SHELL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHELL BE ALLOWED.
16. THE WIRING SYSTEM SHELL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
17. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (ECC) TO THE BOTTOM OF FITTINGS SHELL BE AS UNDER UNLESS OTHERWISE SHOWN OR INSTRUCTED
 - > SWITCH BOARD 48 INCHES
 - > EXHAUST FAN REF TO ARCH DRAWING
 - > DISTRIBUTION BOARD 56 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
 - > 5 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
 - > 15 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
 - > 20 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
 - > 16 AMP SOCKET OUTLETS IN KITCHEN (ABOVE COUNTER) 10 INCHES
 - > 16 AMP TP SPIN INDUSTRIAL SOCKET OUTLETS IN LABS 12 INCHES
 - > CEILING FAN ON SLAB 12 INCHES
 - > WALL BRACKET FAN 90 INCHES

CLIENT:



CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

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SCHOOL NAME

GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK

Date of Revision	Prepared By	FAHID KHAN KHANHAIDER ELECTRICAL ENGINEER:
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:		
PREPARATION OF DESIGN DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE:	GENERAL NOTES	
DATE	SCALE	DRG. NO.
SEP 2023		E-01

APPROVED MANUFACTURE LIST

S NO.	ITEM OR ACCESSORIES	BRAND
01	WIRING CABLE	PAKISTAN,NEW AGE,FAST, GM, COPPERGAT CABLE
02	POWER CABLE	PAKISTAN,NEW AGE,FAST, GM, COPPERGAT CABLE
03	LIGHT FIXTURES	PHILIPS,PIERLITE,CLIPSAL, OSAKA, FAST LIGHT
04	CEILING FAN	PAK, GFC, ROYAL, LAHORE FAN
05	PVC CONDUIT	POLO,BETA,POPULAR, GM, ADAMJEE
06	SWITCHES	PPL
07	LT SWITCHGEAR	SCHNEIDER, ABB, PEL,ELECTRECH
08	MOULDED CASE CIRCUIT BREAKER	SCHNEIDER, CHINT, LS, ABB
9	MINIATURE CIRCUIT BREAKER	SCHNEIDER, CHINT, LS, ABB

CLIENT:



CONSULTANTS:





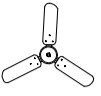

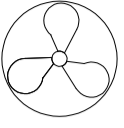
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TEHSIL & DISTRICT
ATTOCK

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	Designed By	Engr. HAMMAD AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		TITLE: APPROVED MANUFACTURE LIST
	Approved By		DATE: SEP 2023 SCALE: DRG.NO. E-02

SYMBOL	DESCRIPTION	INSTALLATION HEIGHT
	SURFACE MOUNTED DOWN LIGHT WITH 17 WATT ENERGY SAVER	CEILING MOUNTED
	TMS 136	SLAB MOUNTED
	56" SWEEP CEILING FAN	SLAB MOUNTED
	SWITCH BOARD	56" FROM FFL
	DISTRIBUTION UNIT	60" FROM FFL
	EXHAUST FAN POINT	

CLIENT:



CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

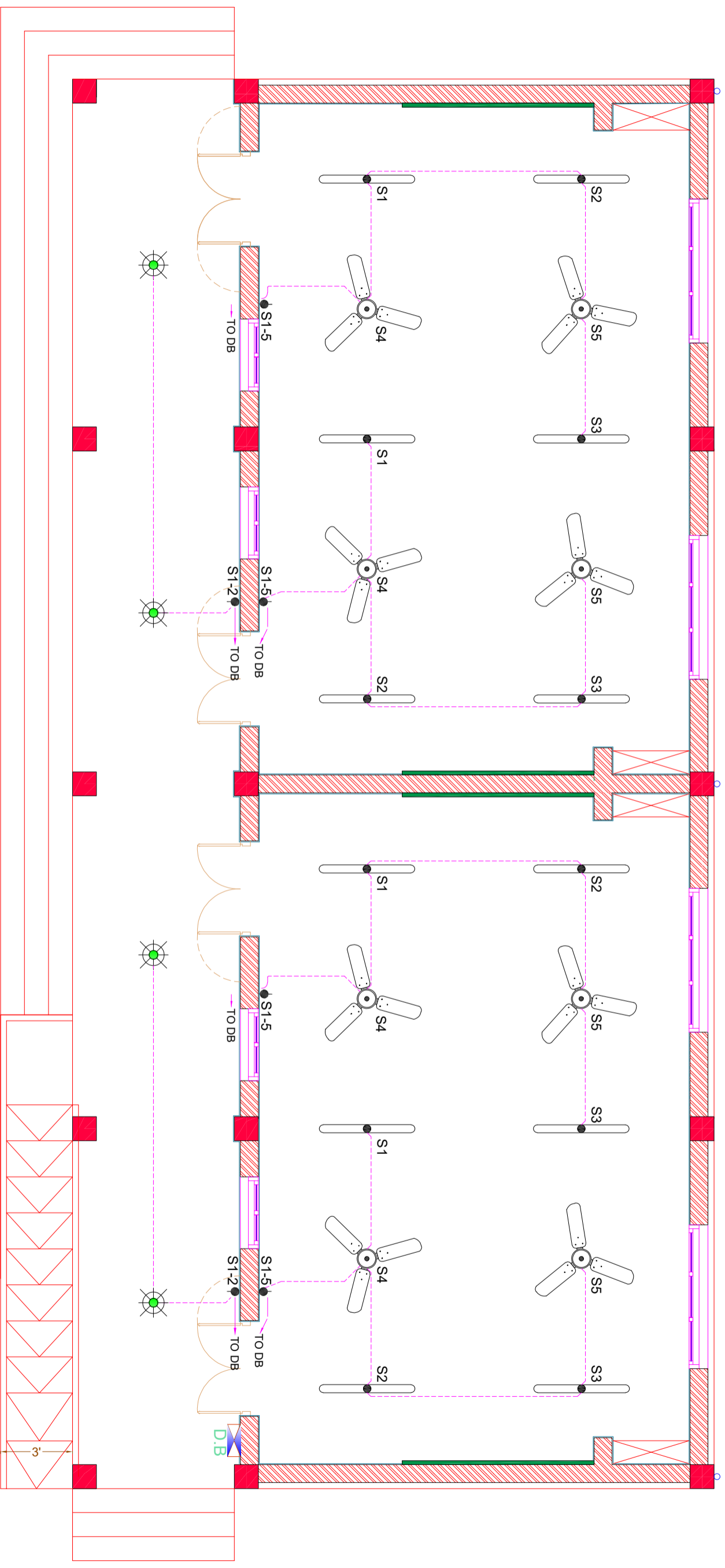
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TEHSIL & DISTRICT
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Date of Revision	Prepared By	FAHID KHAN KHANHAIDER ELECTRICAL ENGINEER:	PROJECT:
	Designed By	Engr. HAMMAD AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		TITLE: LEGEND
	Approved By		DATE: SEP 2023
			SCALE
			DRG.NO. E-03



GROUND FLOOR PLAN

CLIENT:



CONSULTANTS:

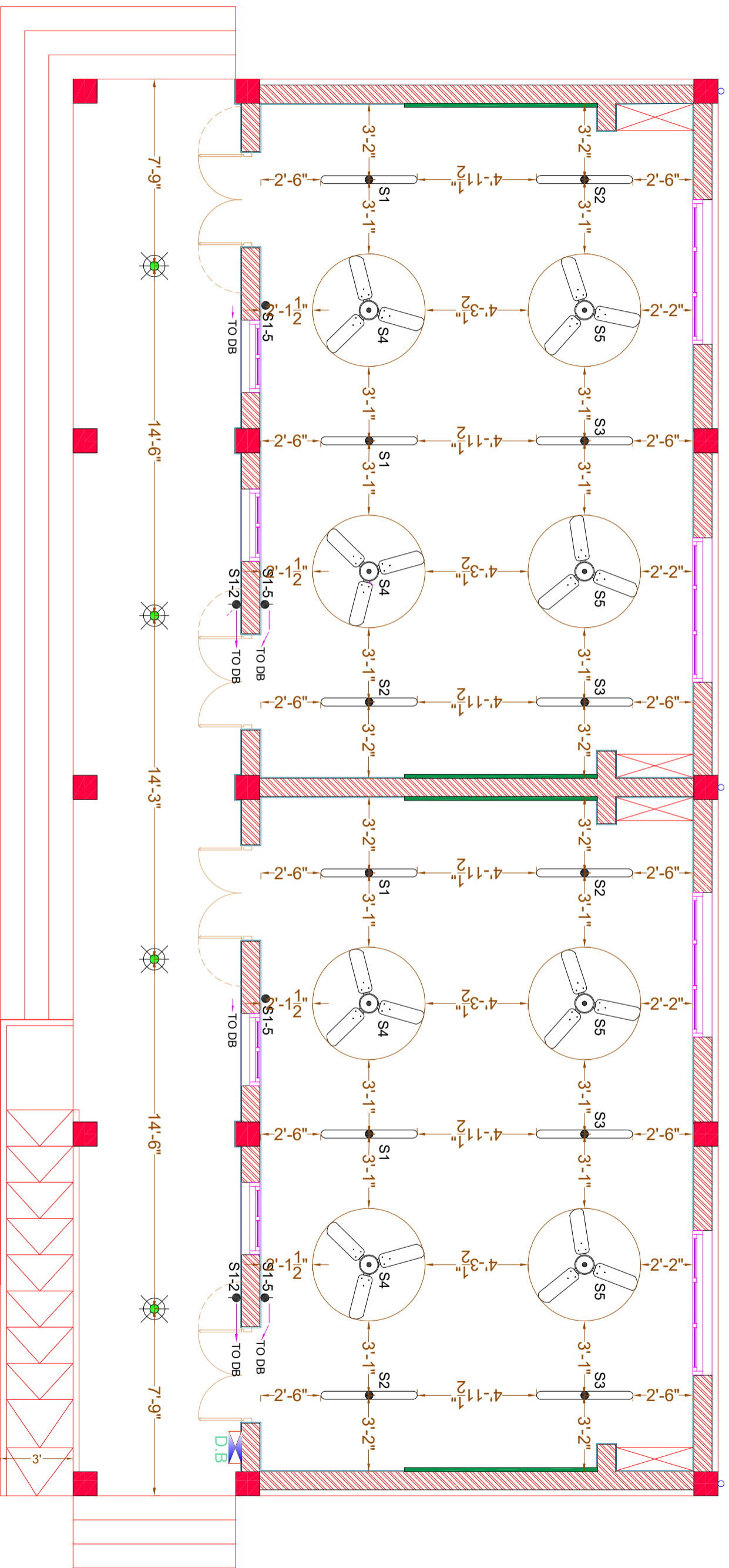


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SCHOOL NAME

GBHSS HASSAN ABDAL
 TEHSIL & DISTRICT
 ATTOCK

Date of Revision	Prepared By	PROJECT:
	FARID KHAN KIYAN IASIR	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Designed By	TITLE:
	Checked By	GROUND FLOOR PLAN
	Approved By	DATE
		SEP 2023
		SCALE
		DRG. NO.
		E:04



GROUND FLOOR DIMENSION PLAN

CLIENT:



UNHCR
The UN Refugee Agency

CONSULTANTS:

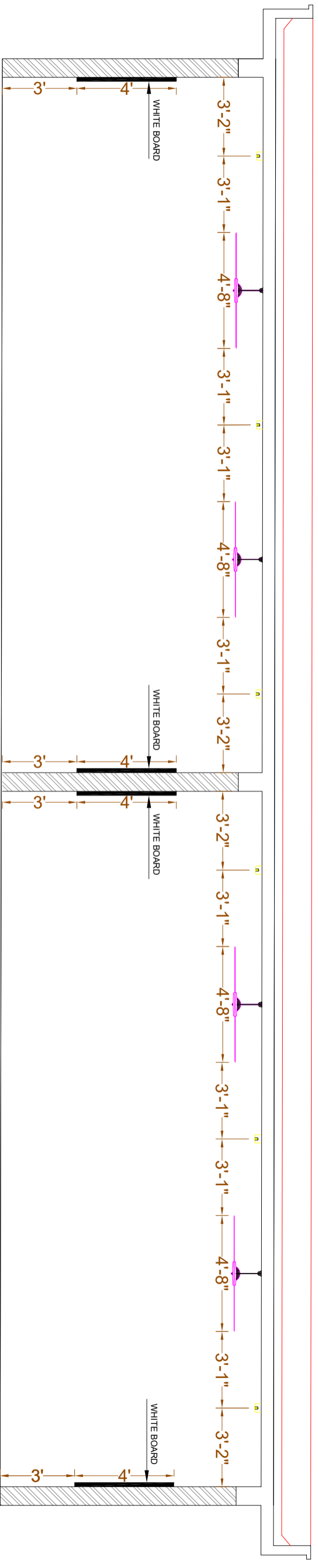


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Date of Revision	Prepared By	PROJECT:
	FARID KHAN KIYAN HADDER ELECTRICAL ENGINEER	PREPARATION OF DESIGN, DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By	TITLE:
	Checked By	GROUND FLOOR DIMENSION PLAN
	Approved By	DATE
		SEP 2023
		SCALE
		DRG.NO.
		E-05



SECTION

CLIENT:



CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

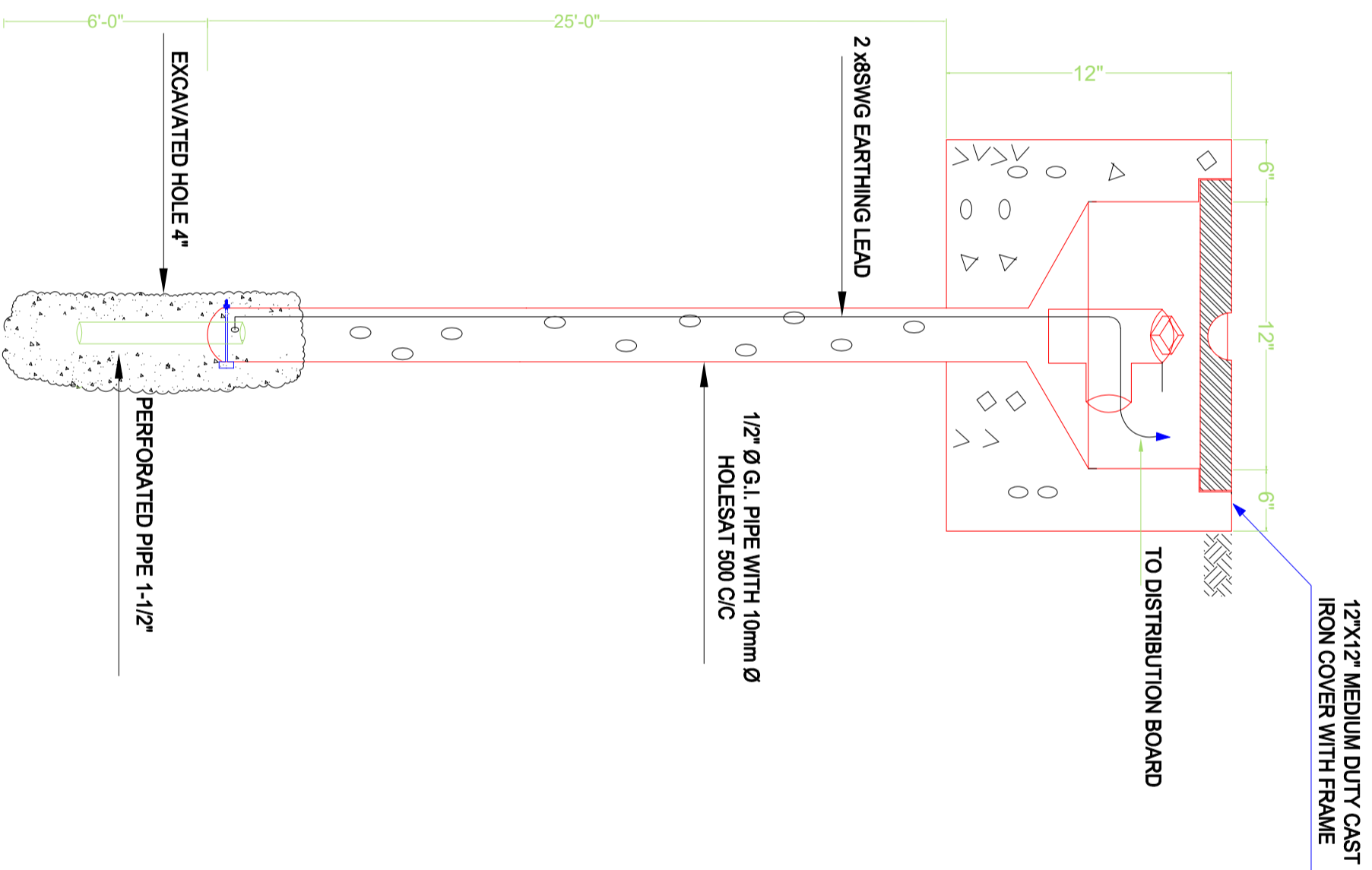
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SCHOOL NAME

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Date of Revision	Prepared By	Checked By	Approved By
	FARID KHAN KHAN HANIDER ELECTRICAL ENGINEER	Engr. HAMMAD AHMAD	
	Designed By	Checked By	Approved By

PROJECT:	
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	
TITLE:	SECTION
DATE	SEP 2023
SCALE	
DRG.NO.	E-06



12"x12" MEDIUM DUTY CAST
IRON COVER WITH FRAME

TO DISTRIBUTION BOARD

2 x 8SWG EARTHING LEAD

1/2" Ø G.I. PIPE WITH 10mm Ø
HOLES AT 500 C/C

EXCAVATED HOLE 4"

PERFORATED PIPE 1-1/2"

CLIENT:



CONSULTANTS:



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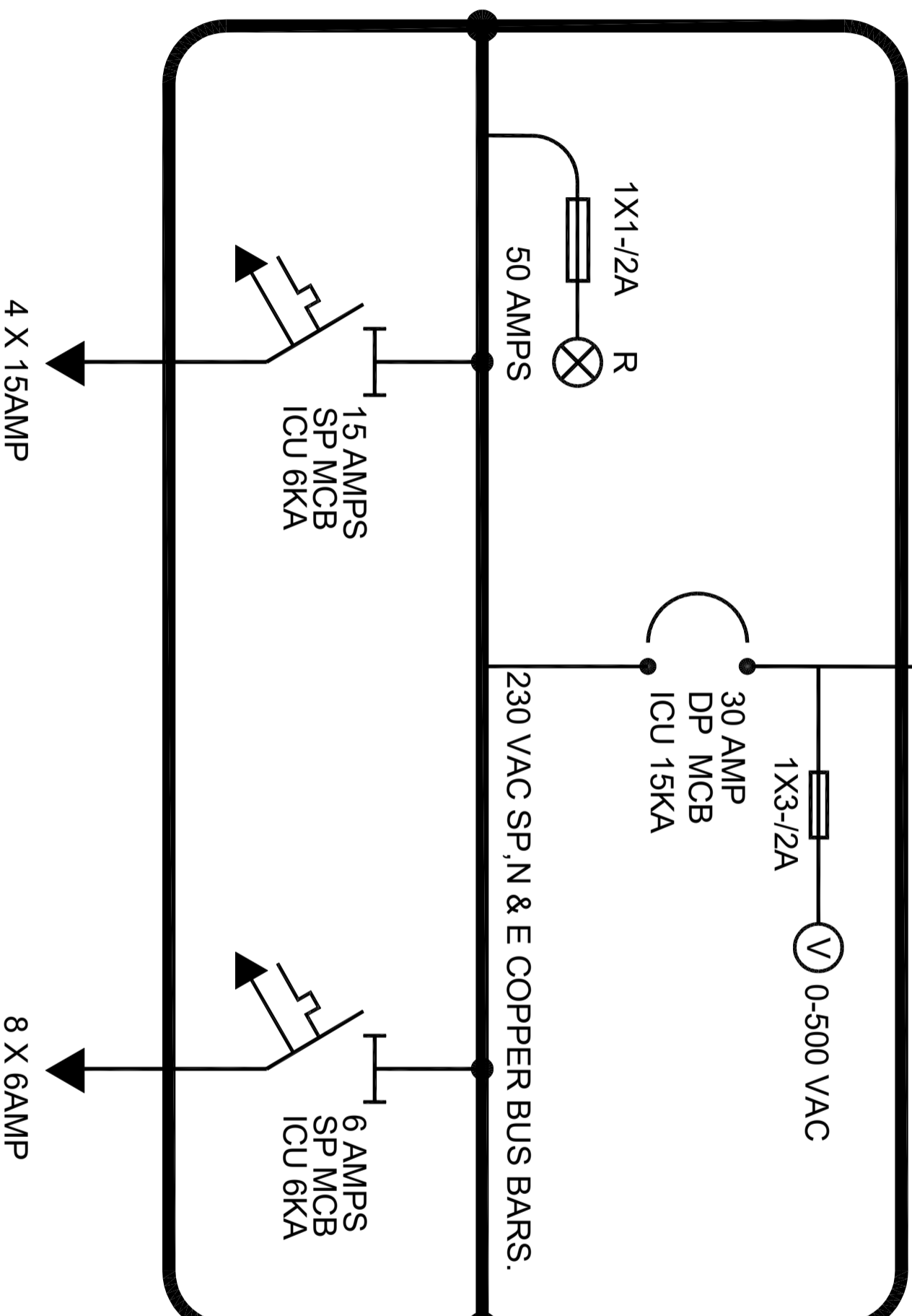
SCHOOL NAME

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TEHSIL & DISTRICT
ATTOCK

Date of Revision	Prepared By	FARID KHAN KHAN HADDER ELECTRICAL ENGINEER :	PROJECT:
	Designed By	Engr. HAMMAD AHMAD	PREPARATION OF DESIGN DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Checked By		TITLE: EARTHING DETAIL PLAN
	Approved By		DATE: <i>SEP 2023</i> SCALE: DRG.NO. E-07

INCOMING FROM MAIN
DISTRIBUTION BOARD
2 X 7/0.044" SINGLE CORE
1X7/0.044" SINGLE CORE AS EARTH

DISTRIBUTION BOARD
16 SWG SHEET STEEL POWDER
PAINTED RECESSED IN WALL.



CLIENT:



CONSULTANTS:

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SCHOOL NAME

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TEHSIL & DISTRICT
ATTOCK

Date of Revision	Prepared By	FARID KHAN KHAN HADDER ELECTRICAL ENGINEER:
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:		
PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE:	MAIN DISTRIBUTION BOARD	
DATE	SCALE	DRG.NO.
SEP 2023		E-08

LOAD CALCULATION

LOAD (W)	528
PEAK DEMAND LOAD (W)	528
25% FUTURE LOAD PROVISION (W)	660
TOTAL LOAD (W)	733
CABLE SIZE (MM sq)	1.5

CLIENT:



CONSULTANTS:

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Date of Revision	Prepared By	FARID KHAN KHAN HADDER ELECTRICAL ENGINEER:
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOQS
FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

LOAD CALCULATION

DATE
SEP 2023

SCALE

DRG.NO.

E-09

PROPOSED DESIGN
OF
REHAB WORKS
AT
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOK



UNHCR
The UN Refugee Agency



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LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS		PLUMBING DRAWINGS			
SR.NO	DESCRIPTION	DRG. NO.	SR.NO	DESCRIPTION	DRG. NO.
1	GROUND FLOOR PLAN	A-01	14	GENERAL NOTES	P-01
2	FRONT ELEVATION	A-02	15	GROUND FLOOR PLUMBING PLAN	P-02
3	SECTION AT B-B	A-03	16	SEPTIC TANK PLAN	P-03
4	SCHEDULE OF OPENING	A-04	WATER SUPPLY DRAWINGS		
5	VENTILATOR, PROJECTION, DRIP COURSE & RAILING DETAILS	A-05	17	LEGEND	WS-01
6	P.C.C FLOORING	A-06	18	GROUND FLOOR WATER SUPPLY PLAN	WS-02
STRUCTURAL DRAWINGS					
6	GENERAL NOTES	S-01	ELECTRICAL DRAWINGS		
7	GENERAL NOTES	S-02	19	GENERAL NOTES	E-01
8	FOUNDATION PLAN	S-03	20	APPROVED MANUFACTURE LIST	E-02
9	FOUNDATION SECTION DETAIL	S-04	21	LEGEND	E-03
10	GROUND FLOOR LINTEL BEAM PLAN	S-05	22	GROUND FLOOR PLAN	E-04
11	GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN	S-06	23	GROUND FLOOR DIMENSION PLAN	E-05
12	GROUND FLOOR SLAB TOP REINFORCEMENT PLAN	S-07			
13	LINTEL BEAM DETAIL	S-08			

CLIENT:



UNHCR
The UN Refugee Agency

CONSULTANTS:



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SCHOOL NAME

REHAB WORKS OF
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT
ATTOCK

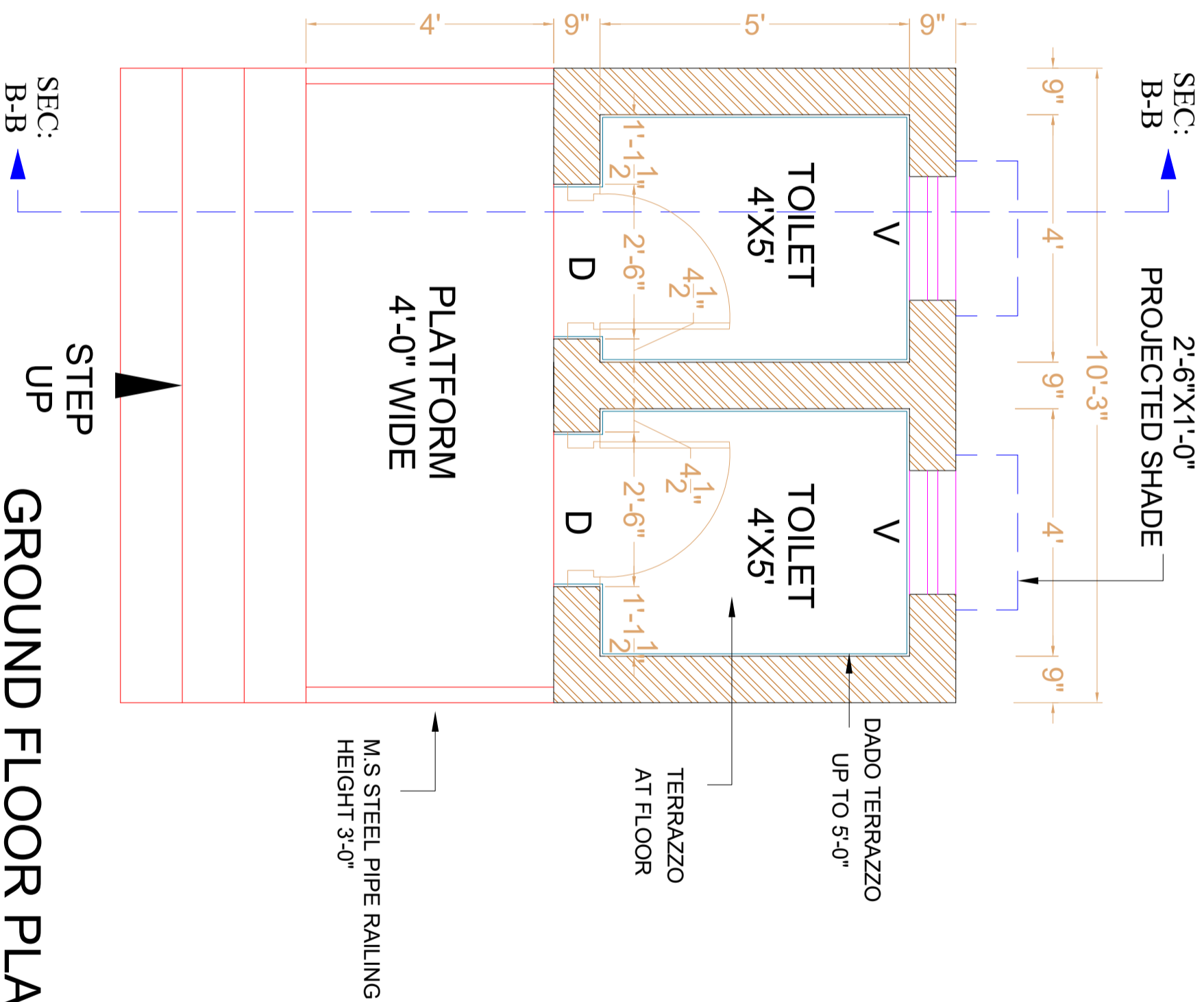
Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORAKZAI (P. ARCHITECT, KARACHI) (M. ARCHITECT, ISLAMABAD)
	Checked By	
	Approved By	

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
LIST OF DRAWINGS

DATE: *SFP 2023* SCALE: DRG. NO. *A-00*



GROUND FLOOR PLAN

CLIENT:



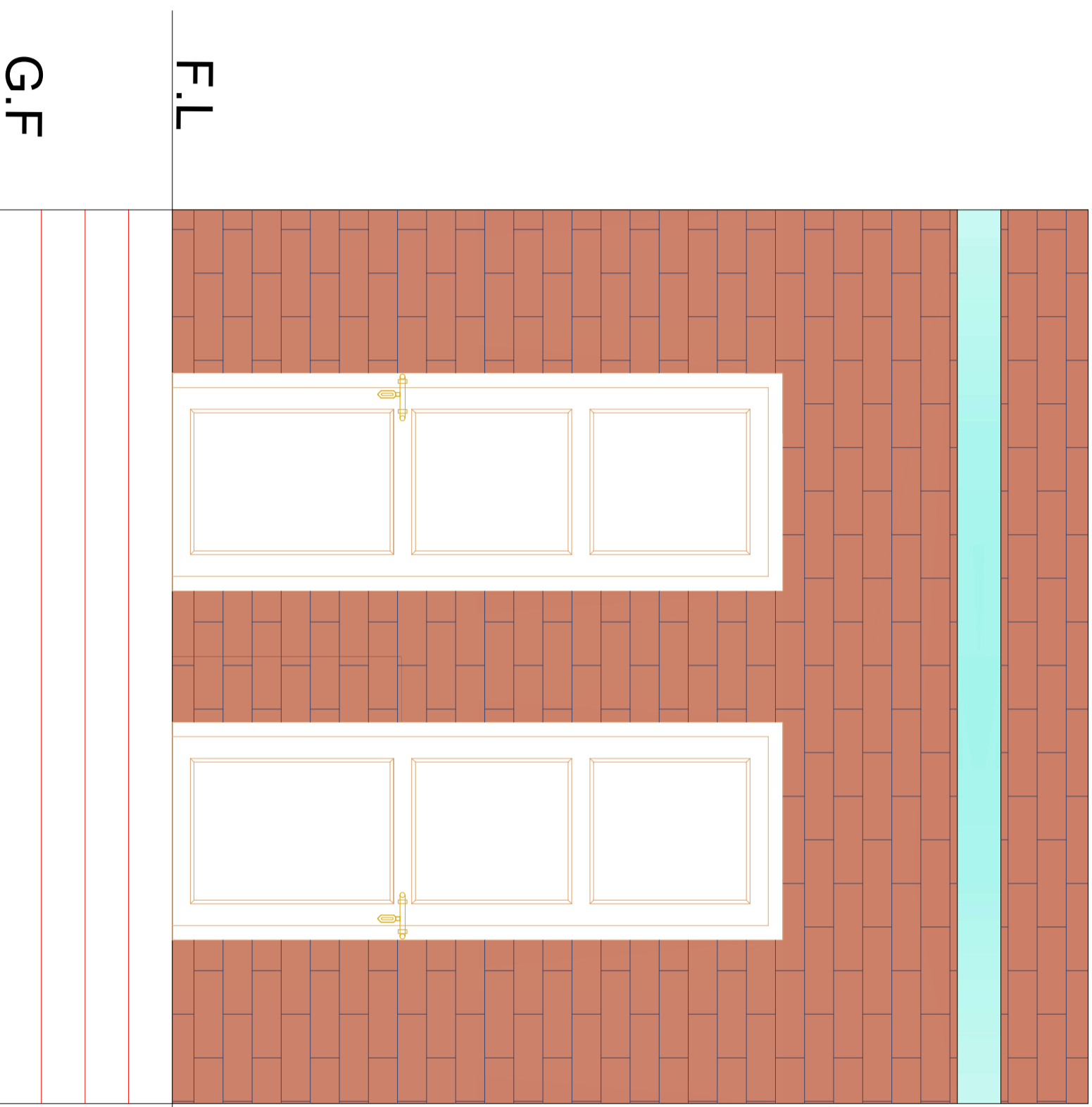
CONSULTANTS:
PLANNERS CONSULTANTS ENGINEERS (PCE)
 97-K Industrial Estate, Hayatabad Peshawar Pakistan
 Ph: 0092-91-5816017, 5891661-4, Fax: 5891845
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SCHOOL NAME

REHAB WORKS OF
 GBHSS HASSAN ABDAL
 TEHSIL & DISTRICT
 ATTOCK

Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORAKZAI (B.Arch, D.CET Karachi) (M.Arch, UET Lahore)
	Checked By	
	Approved By	

PROJECT:	DATE	SCALE	DRG.NO.
PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023		A-01
TITLE:			
GROUND FLOOR PLAN			



FRONT ELEVATION

CLIENT:



CONSULTANTS:
PLANNERS CONSULTANTS ENGINEERS (PCE)
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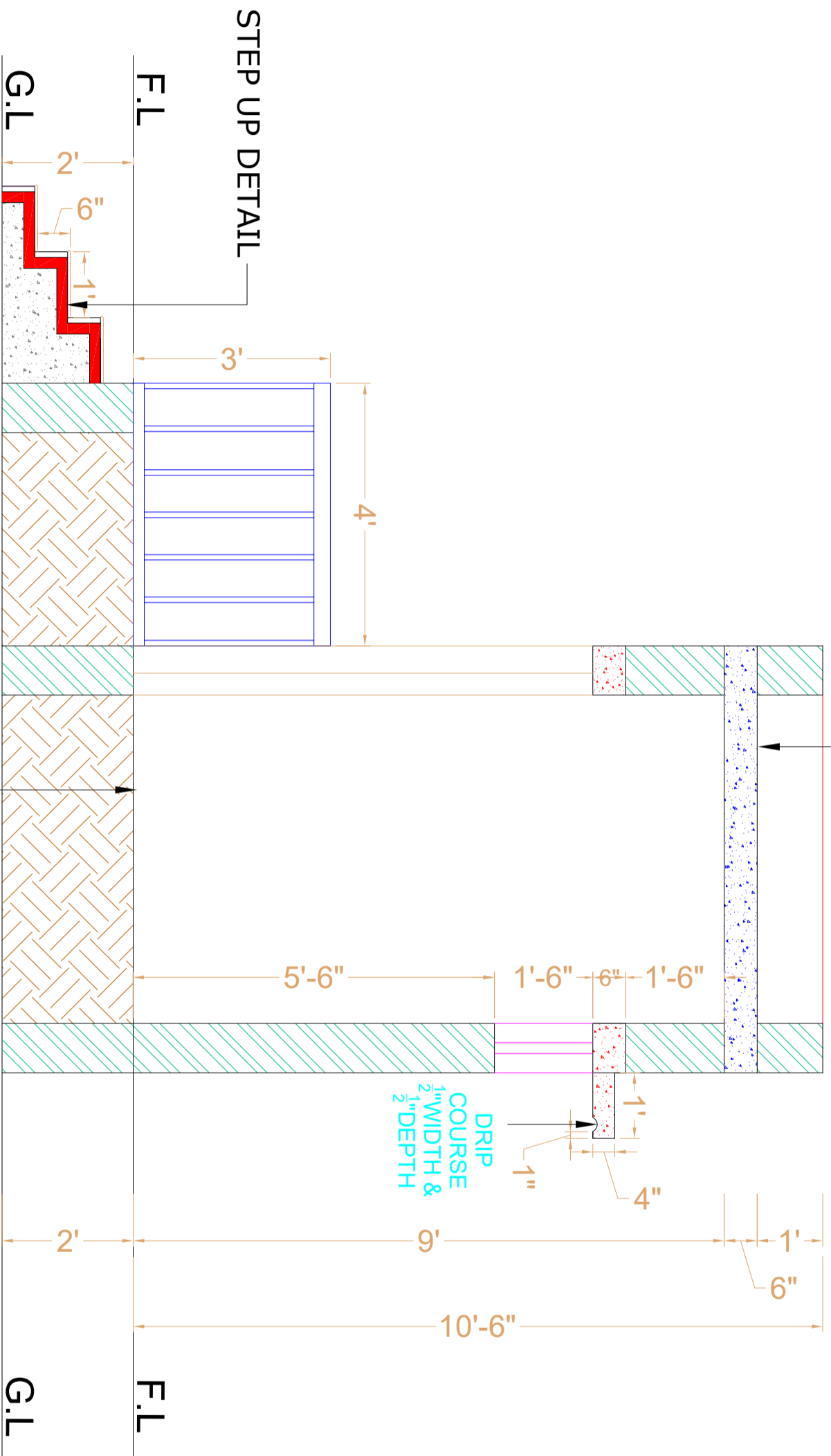
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 ATTOCK

Date of Revision	Prepared By	ARCHITECT
	Designed By	MARVAT KHAN ORAKZAI (M.Arch, UET, Lahore)
	Checked By	
	Approved By	

PROJECT:		
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE: FRONT ELEVATION		
DATE	SCALE	DRG.NO.
SEP 2023		A-02

- 1.25" TH. BRICK TILES
- SET & GROUTED IN C/S (1:2)
- 4" TH. AVG. MUD FILLING.
- POLYTHENE SHEET
- HOT BITUMEN 10/20
- RCC (1:2:4) SLAB



SECTION AT B.B

MARBLE TOPPING
3" PCC 1:3:6
4" SAND FILLING
COMPACTED EARTH

CLIENT:



CONSULTANTS: **PLANNERS CONSULTANTS ENGINEERS (PCE)**

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Date of Revision

Prepared By

FARID KHAN
KHAN HABIBER
ARCHITECT

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

SECTION AT B.B

DATE

SEP 2023

SCALE

DRG. NO.

A-03

SCHEDULE OF OPENING

TYPE	SIZE	S-LEVEL	DESCRIPTION
D	2'-6" X 7'-0"	0"-0"	STEEL
V	2'-0" X 1'-6"	5'-6"	STEEL

CLIENT:



CONSULTANTS:

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SCHOOL NAME

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TEHSIL & DISTRICT
ATTOCK

Date of Revision

Prepared By

FARID KHAN
KHAN HADDER
ARCHITECT

Designed By

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(B.Arch, D.C.E.T, Karachi)
(M.Arch, UET, Lahore)

Checked By

Approved By

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

SCHEDULE OF OPENING

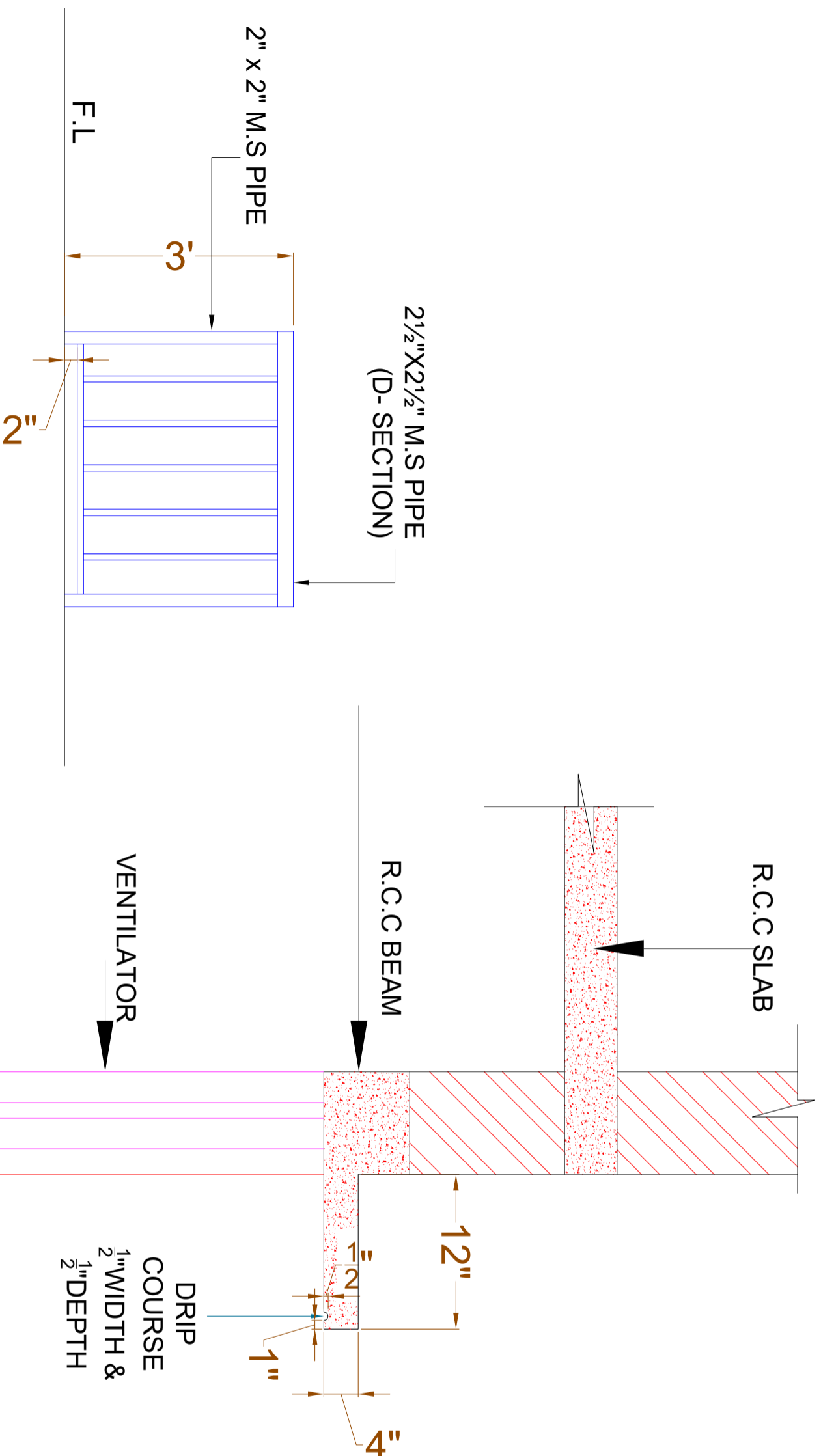
DATE

SEP 2023

SCALE

DRG.NO.

A-04



RAILING DETAILS

VENTILATOR PROJECTION & DRIP COURSE DETAIL

CLIENT:



CONSULTANTS:

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SCHOOL NAME

REHAB WORKS OF
 GBHSS HASSAN ABDAL
 TEHSIL & DISTRICT
 ATTOK

Date of Revision

Prepared By

FARID KHAN
 KHAN HANIDER
 ARCHITECT

Designed By

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 (M.Arch,UET, Lahore)

Checked By

Approved By

PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOOKS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:

VENTILATOR, PROJECTION, DRIP COURSE
 AND RAILING DETAILS

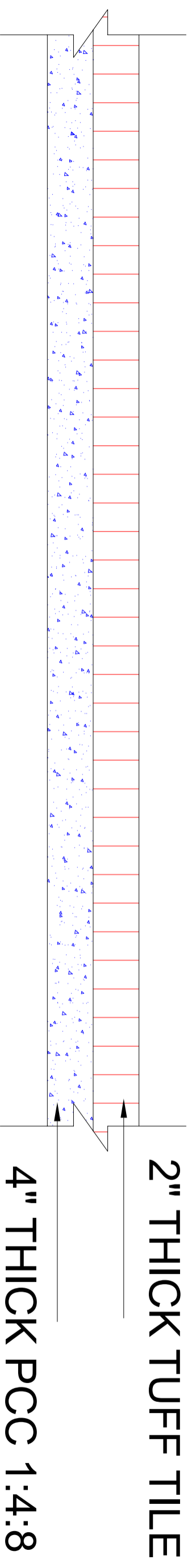
DATE

SEP 2023

SCALE

DRG.NO.

A-05



P.C.C FLOORING

3000.SFT

CLIENT:



CONSULTANTS:



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SCHOOL NAME

REHAB WORKS OF
 GBHSS HASSAN ABDAL
 TEHSIL & DISTRICT
 ATTOCK

Date of Revision	Prepared By	ARCHITECT	PROJECT:		
	Designed By	MARWAT KHAN ORAKZAI (B.Archd. CET Karachi) (M.Archd. UET, Lahore)	PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/ REHABILITATION OF SITES P.C.C FLOORING		
	Checked By				
	Approved By				
			DATE	SCALE	DRG.NO.
			SEPT 2023		A-06

**STRUCTURE DRAWING
OF
REHAB WORKS AT
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOCK**

1. GENERAL

1. READ ALL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, GEOTECHNICAL, PLUMBING, MECHANICAL, ELECTRICAL & ANY OTHER RELEVANT DRAWINGS.
2. NOTES GIVEN IN THIS DRAWING ARE APPLICABLE TO ALL DRAWINGS UNLESS MENTIONED OTHERWISE. NOTES WRITTEN ON A DRAWING, SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS-REFERRED.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS. IN ABSENCE OF ANY SPECIFICATIONS, ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO RELEVANT AC/BRITISH CODES AND SHALL BE SUBJECTED TO APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURES DURING CONSTRUCTION. HE SHALL ALSO VERIFY ALL DIMENSIONS AND LEVELS BEFORE EXECUTION OF WORK. ANY DISCREPANCY, ERROR OR OMISSION, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR CORRECTION AND APPROVAL.
5. THE CONTRACTOR SHALL CO-ORDINATE WITH VARIOUS SERVICES DRAWINGS FOR SIZES & LOCATION OF ALL STRUCTURAL MEMBERS, FLOORS, WALLS, OPENINGS, FLOOR FINISHES, PIPES ETC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF DEWATERING SYSTEM WHERE SO REQUIRED DURING CONSTRUCTION.
7. ALL DIMENSIONS & LEVELS ARE IN FEET & INCHES.
8. DO NOT SCALE THE DRAWINGS. DIMENSIONS, GIVEN ON THE DRAWING, SHALL GOVERN.
9. ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE ACI/BRITISH SPECIFICATIONS.
10. BACKFILLING AROUND FOUNDATIONS AND WALLS SHALL BE WELL COMPACTED LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS.
11. IT IS STRONGLY RECOMMENDED TO RECONFIRM THE SITE PLAN BEFORE START OF EXECUTION AT SITE. THE SITE SHOULD BE EXAMINED FOR CLEARANCE WITH RESPECT TO LOCAL/SEISMIC HAZARDS.
12. THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS IN THE STRUCTURE AND OBTAIN ENGINEER'S APPROVAL THEREOF BEFORE COMMENCING THE WORK.
13. THE CONTRACTOR SHALL VERIFY LAYOUT, CONFIGURATION, ALL DIMENSIONS AND LEVELS PERTAINING TO EXISTING WORKS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ADOPT ADEQUATE AND APPROPRIATE MEASURES SO AS NOT TO DAMAGE THE EXISTING WORKS.
14. THE CONTRACTOR SHALL EXERCISE UTMOST CARE AND PRECAUTION DURING THE WORKS, AGAINST ANY MISHAPS OR ACCIDENTS, FOR WHICH THE CONTRACTOR SHALL BE WHOLLY AND SOLELY RESPONSIBLE. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ANY ACCIDENTS AND ANY LOSSES THEREFROM AND SHALL REPAIR AND RECTIFY THEM AT HIS OWN COST AND TIME.
15. ANY DEPARTURES/DEVIATIONS DESIRED FROM THE DESIGN OR SPECIFICATIONS, OR SOLUTIONS TO ANY PROBLEMS ENCOUNTERED, SHALL BE GOT APPROVED FROM THE ENGINEER PRIOR TO IMPLEMENTATION. UNAPPROVED DEPARTURES/DEVIATIONS MAY LEAD TO REJECTION/REPLACEMENT OF THE ENTIRE WORK AT THE CONTRACTOR'S COST.
16. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND BAR BENDING SCHEDULES. THE ENGINEER'S APPROVAL SHALL NOT RELIEVE THE APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS AND BAR BENDING SCHEDULES FOR ENGINEERS APPROVAL AND OBTAIN HIS CONTRACTOR FROM HIS RESPONSIBILITY.
17. The allowable bearing capacity of soil should be 1stf.

2. SHORING AND BRACING

1. SHORE & BRACE ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION, TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH & SERVICEABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS WHICH MAY OCCUR DURING CONSTRUCTION. SUCH SHORING & BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE SLOPES AND SHALL PROVIDE SHORING AND BRACING DURING EXCAVATION AND CONSTRUCTION, WHEREVER AND WHENEVER REQUIRED.
3. SEQUENCE OF REMOVAL OF FORMWORK SHALL BE APPROVED BY THE ENGINEER.
4. AT LEAST ONE LOWER FLOOR SHALL REMAIN PROPPED UNTILL THE UPPER FLOOR IS CAST AND CURED.

3. REINFORCED CONCRETE

1. STRUCTURAL DESIGN IS BASED ON THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF AMERICAN CONCRETE INSTITUTE (ACI 318).
2. ALL STRUCTURAL CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) REQUIREMENTS.
3. CONCRETE MIX TO BE DESIGNED ON THE BASIS OF ACI 211 OR EQUIVALENT. TRIAL STRENGTH RESULTS TO BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BEFORE CONCRETING.
4. NO CONCRETING SHALL BE CARRIED OUT UNTIL PERMISSION IS GIVEN IN WRITING OR APPROVED BY STRUCTURE ENGINEER.
5. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARDS C31, C39, C173 & AS WRITTEN IN SPECIFICATIONS AND THE MINIMUM CYLINDER CRUSHING STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS. TESTING OF CLASS D & E CONCRETE SHALL BE PERFORMED IF SO SHAHEED CHAWK EXACT, NEAR ALFALAH FURNITURE LOWER DIRECTED BY THE ENGINEER.

CLASS

MIN. CYLINDER CRUSHING STRENGTH

AT 28 DAYS (psi).

A	4000
B	3000
C	2400
D	1200
E	800

6. CLASS OF CONCRETE FOR DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE AS FOLLOWS UNLESS NOTED OTHER WISE:

COMPONENT

CONCRETE CLASS

COLUMNS	CLASS 'A'
SLABS, BEAMS, FOUNDATION	CLASS 'A'
RCC WALLS	CLASS 'B'
PCC STEPS	CLASS 'D'
LEAN / BLINDING CONCRETE	CLASS 'E'

7. ORDINARY PORTLAND CEMENT SHALL BE USED FOR ALL CONCRETE WORKS.
8. AN INTEGRAL WATER PROOFING AGENT SHALL BE USED IN CONCRETE THAT IS CONSTANTLY OR INTERMITTENTLY IN CONTACT WITH WATER AS PER MANUFACTURERS RECOMMENDATIONS (GENCON GENPRUF RMC OR PENETRON ADMIX OR EQUIVALENT).
9. ALL DETAILING SHALL BE DONE AS PER ACI STANDARDS ACI-315, ACI-318 & ACI-350R.

4. REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM-A615 GRADE 60 HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI. FOR STIRRUPS, TIES AND #3 BARS USE ASTM A615, GRADE 60 HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI.
 2. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI)
 3. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRENGTH TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25
- L-GREATER CLEAR SPAN, db-DIAMETER OF BAR,d-EFFECTIVE DEPTH
- THE FIRST HOOP SHALL BE LOCATED NOT MORE THAN 2" FROM THE FACE OF THE SUPPORTING MEMBER.
- WHERE:

7. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACEMENT OF CONCRETE BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
8. LINTELS ARE EXTENDED AT 9 (INCHES) FROM BOTH SIDES OF OPENING.
9. PROVIDE 135° HOOK IN ADJACENT STIRRUPS ON ALTERNATE SIDES.

5. CONCRETE CONSTRUCTION

1. ALL STRUCTURAL SURFACES, AGAINST WHICH EARTH IS TO BE FILLED, SHALL BE COATED WITH TWO COATS OF HOT BITUMEN OF 10/20 GRADE AT THE RATE OF 0.2 lbs/ft²/coat.
2. PROVIDE POLYTHENE SHEET OVER TWO COATS OF HOT BITUMEN AT TOP OF PLINTH BEAM/DPC FOR EXTERIOR WALLS.
3. BEFORE CASTING OF ANY STRUCTURAL MEMBER, THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED AND FIRMLY SECURED IN PLACE.
4. DURING CONSTRUCTION, STACKING OF CONSTRUCTION MATERIALS, BLOCKS, etc. SHOULD BE AVOIDED ON SLAB PANELS.

6. BRICK WORK

1. ALL BRICK WORK SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
2. ALL BRICK SHALL BE SOUND, HARD, WELL BURNT AND OF UNIFORM SIZE COLOUR AND TEXTURE. DIMENSIONAL VARIATION IN SIZES SHALL NOT EXCEED 1/8" BRICKS SHOULD BE IN ACCORDANCE WITH SPECIFICATIONS AND SHOULD CONFORM TO ASTM C82.
3. ALL BRICK WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 1/8" IN 10'-0".
4. MORTAR USED IN MASONRY CONSTRUCTION SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 12 MPa (1800psi) AND SHALL CONFORM TO ASTM C270.
5. COMPRESSIVE STRENGTH OF BRICK MASONRY AVERAGE OF 5 UNITS AT 28 DAYS SHALL NOT BE LESS THAN AS SPECIFIED IN SPECIFICATION AND SHALL CONFORM TO RELEVANT ASTM STANDARD.
6. ALL DESIGN, DETAILING, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT ACI, ASTM, AND UBC CODES AND STANDARDS.
7. BRICK SHALL BE LAID "FROG" UPWARD WITH MORTAR JOINT AND IN ENGLISH FLEMISH BOND OR AS SHAHEED CHAWK EXACT, NEAR ALFALAH FURNITURE LOWER DIRECTED BY THE ENGINEER.
8. BRICKS SHOULD BE SOAKED WITH WATER PROPERLY BEFORE USE.
9. VERTICAL JOINTS SHOULD BE STAGGERED.
10. ALL MASONRY WALLS SHALL BE ANCHORED TO STRUCTURAL FRAME WORK AS INDICATED ON THE DRAWINGS

STRUCTURAL ELEMENT	COVER (INCHES)
FOOTINGS	2"
BEAMS	1 1/2"
COLUMNS	1 1/2"
SLABS	3/4"
WALLS	3/4"

CLIENT:



CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

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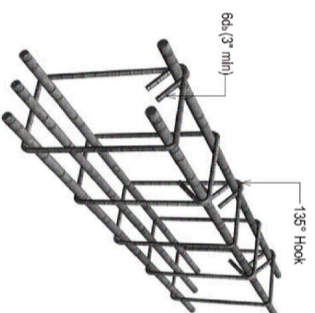
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TEHSIL & DISTRICT ATTOCK

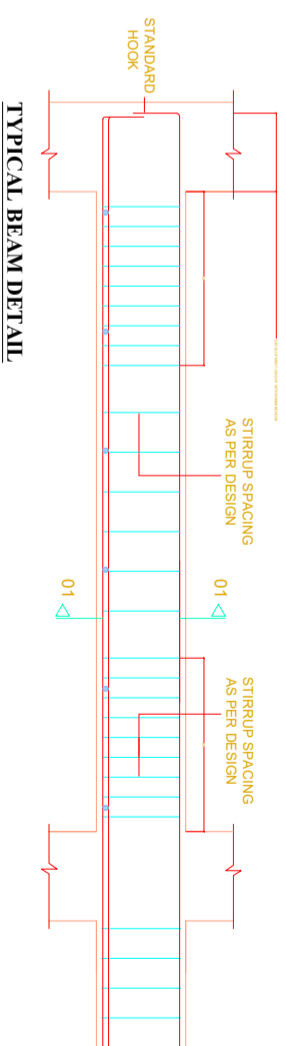
Date of Revision	Prepared By	FAHED KHAN KHAN HANIDER STRUCTURE ENGINEER:	PROJECT:
	Designed By	Engr. HUMZA AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Checked By		TITLE: GENERAL NOTES
	Approved By		DATE: SEP 2023
			SCALE
			DRG.NO. S-01

7. CONSTRUCTION JOINTS

1. JOINTS, NOT SHOWN ON THE DRAWING, SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. THEY SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLAB & BEAMS. JOINTS IN WALLS & COLUMNS SHALL BE AT THE UNDER-SIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS.
2. JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS THE JOINTS.
3. JOINTS IN BASE SLAB & WALLS AND ROOF SLAB, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR. BEAMS & BRACKETS SHALL BE PLACED AT THE SAME TIME AS SLABS.



SEISMIC HOOK DETAILS



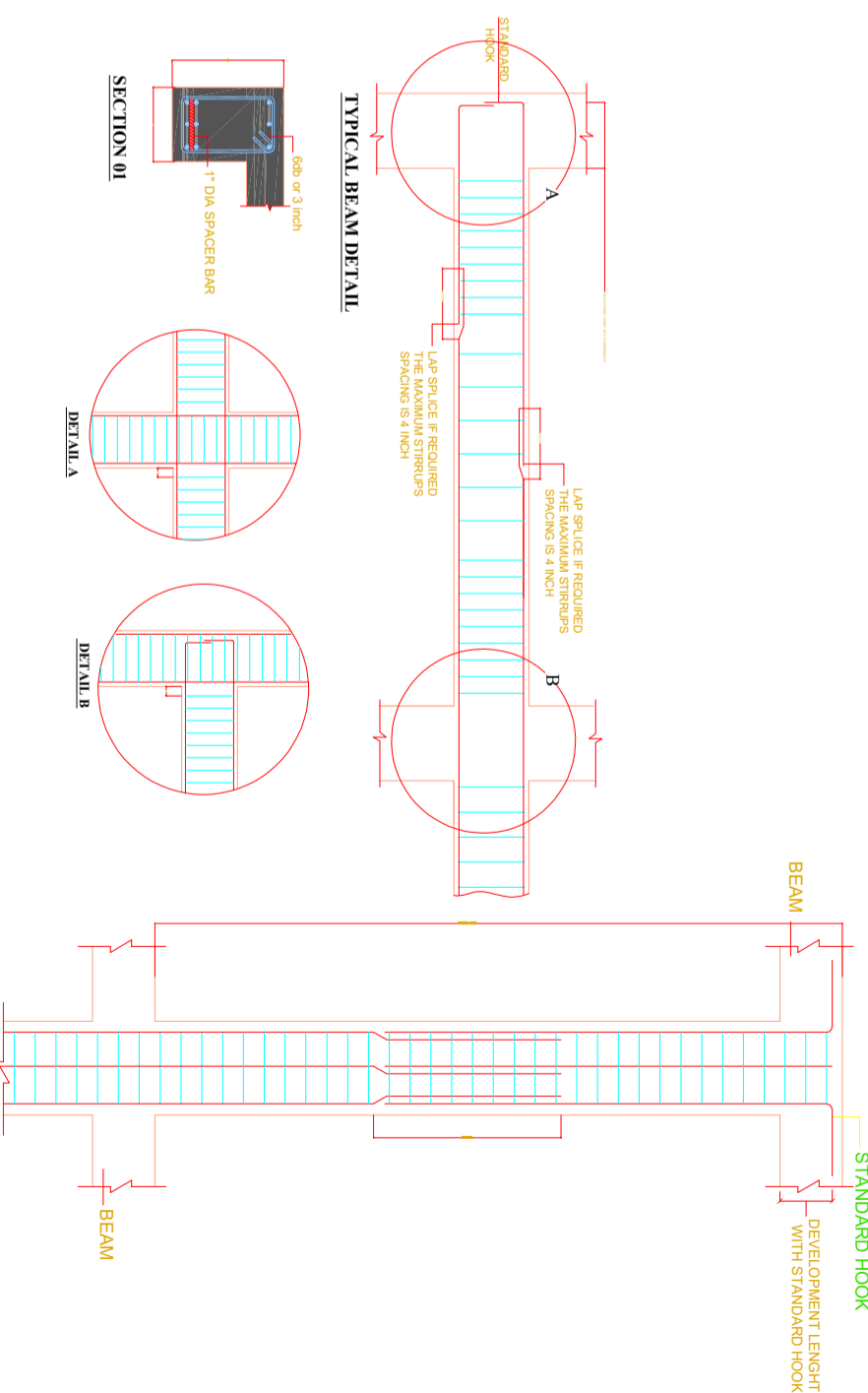
TYPICAL BEAM DETAIL

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)	
BAR DIA	DEVELOPMENT LENGTH (INCHES) $f_c' = 4,000$ psi $f_y = 60,000$ psi
	STRAIGHT BARS WITH STANDARD HOOK
3/8"	18
1/2"	24
3/4"	30
1"	48

SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)	
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES) $f_c' = 3,000$ psi $f_y = 40,000$ psi
	TENSION COMPRESSION
3/8"	15
1/2"	20
3/4"	30
1"	48

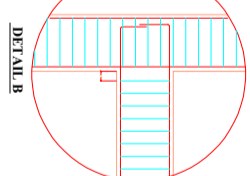
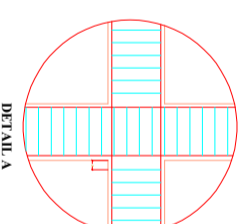
DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)	
BAR DIA	DEVELOPMENT LENGTH (INCHES) $f_c' = 3,000$ psi $f_y = 60,000$ psi
	STRAIGHT BARS WITH STANDARD HOOK
1/2"	22
5/8"	30
3/4"	34
1"	55

SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)	
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES) $f_c' = 3,000$ psi $f_y = 60,000$ psi
	SLAB BEAM / COLUMN
1/2"	25
5/8"	-
3/4"	-
1"	-



TYPICAL COLUMN DETAIL

SECTION 01



CLIENT:



CONSULTANTS:



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SCHOOL NAME

REHAB WORKS AT
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Date of Revision

Prepared By

FAHD KIAN
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PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOOKS
FOR CONSTRUCTION/REHABILITATION OF SITES

Designed By

Engr. HUMZA AHMAD

Checked By

GENERAL NOTES

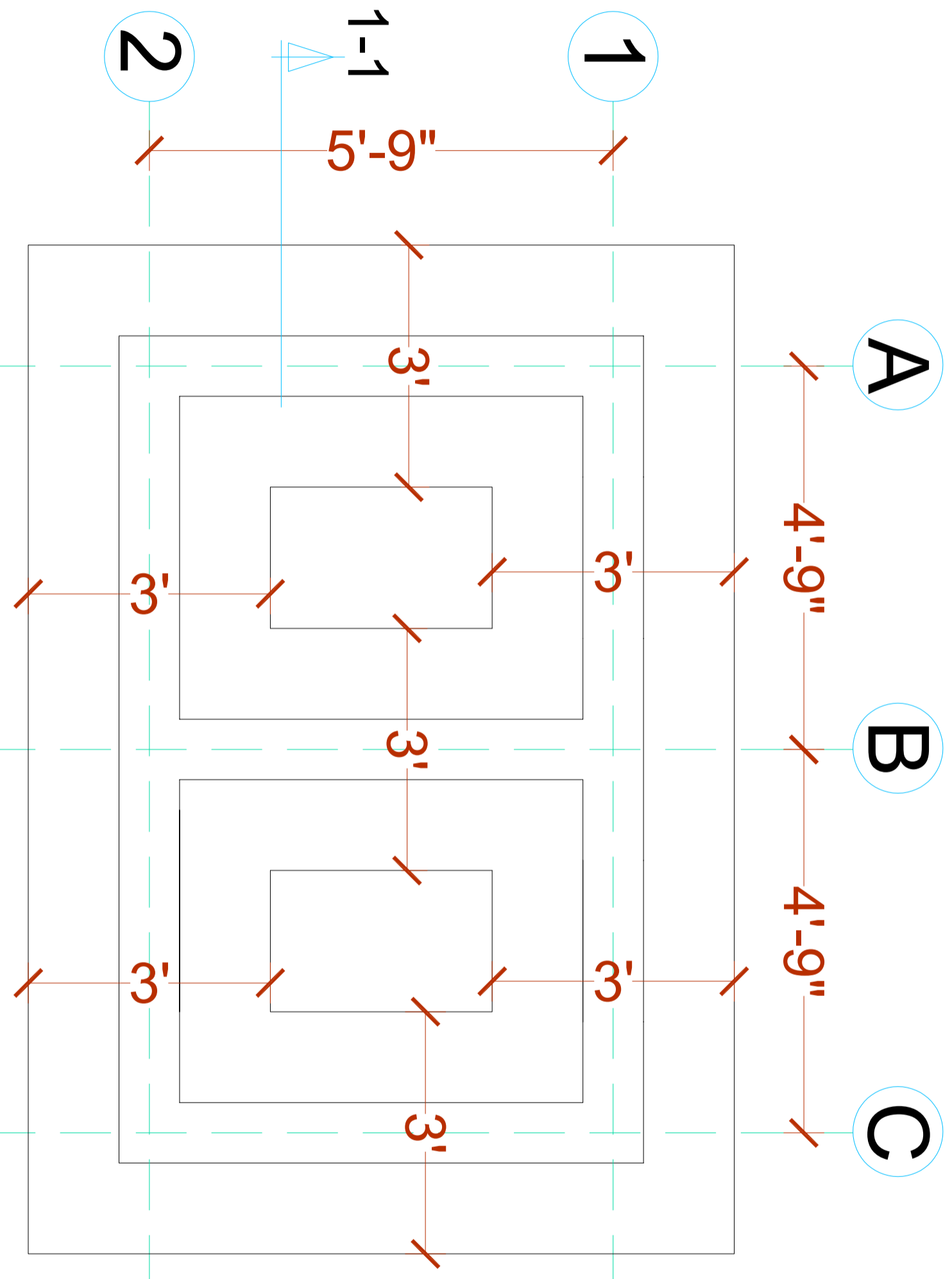
Approved By

DATE
SEP 2023

SCALE

DRG.NO.

S-02



FOUNDATION PLAN

CLIENT:



CONSULTANTS:
PLANNERS CONSULTANTS ENGINEERS (PCE)

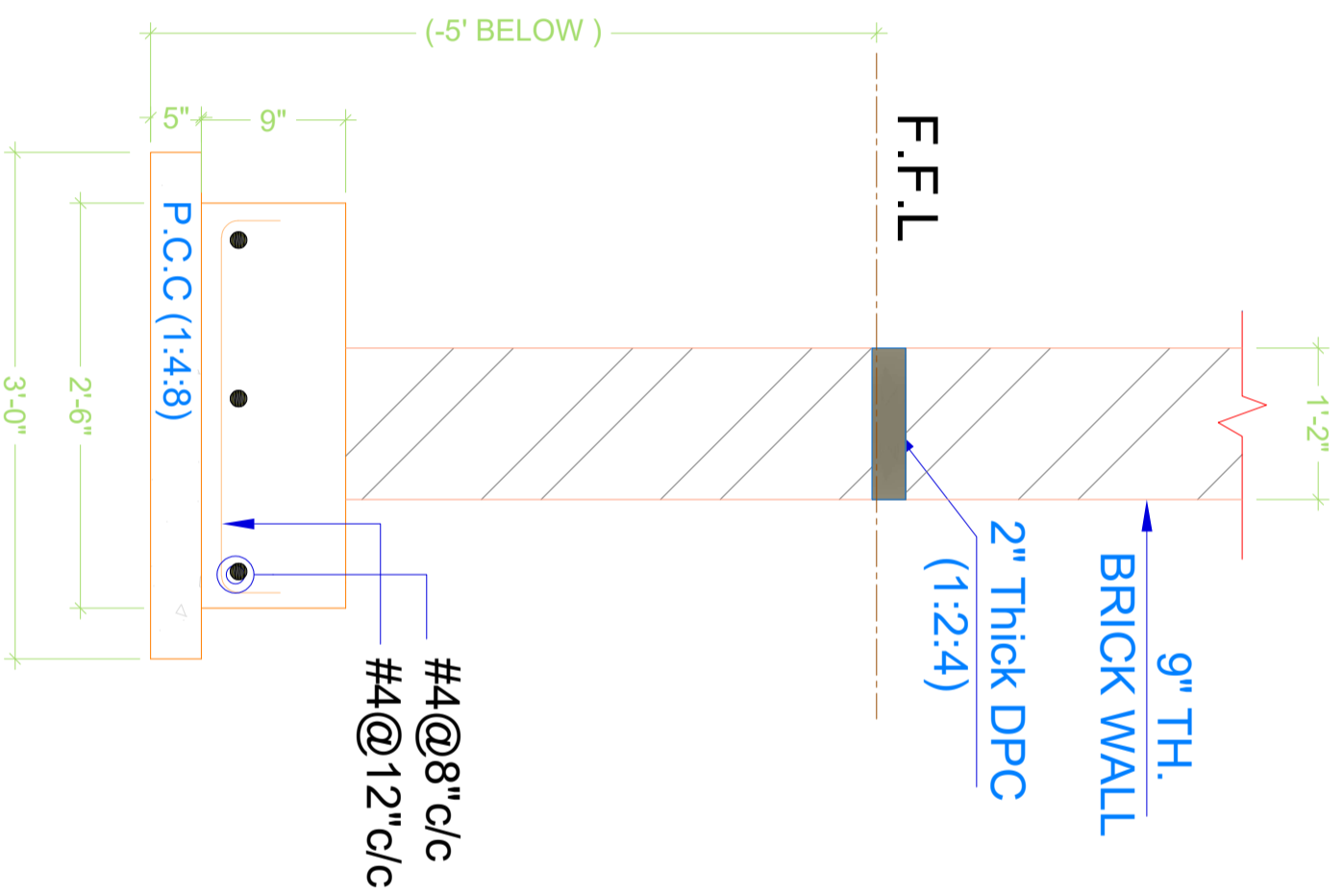
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	Approved By	

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PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES		
TITLE:	FOUNDATION PLAN	
DATE	SCALE	DRG. NO.
SEP 2023		S-03



SECTION 1-1

CLIENT:



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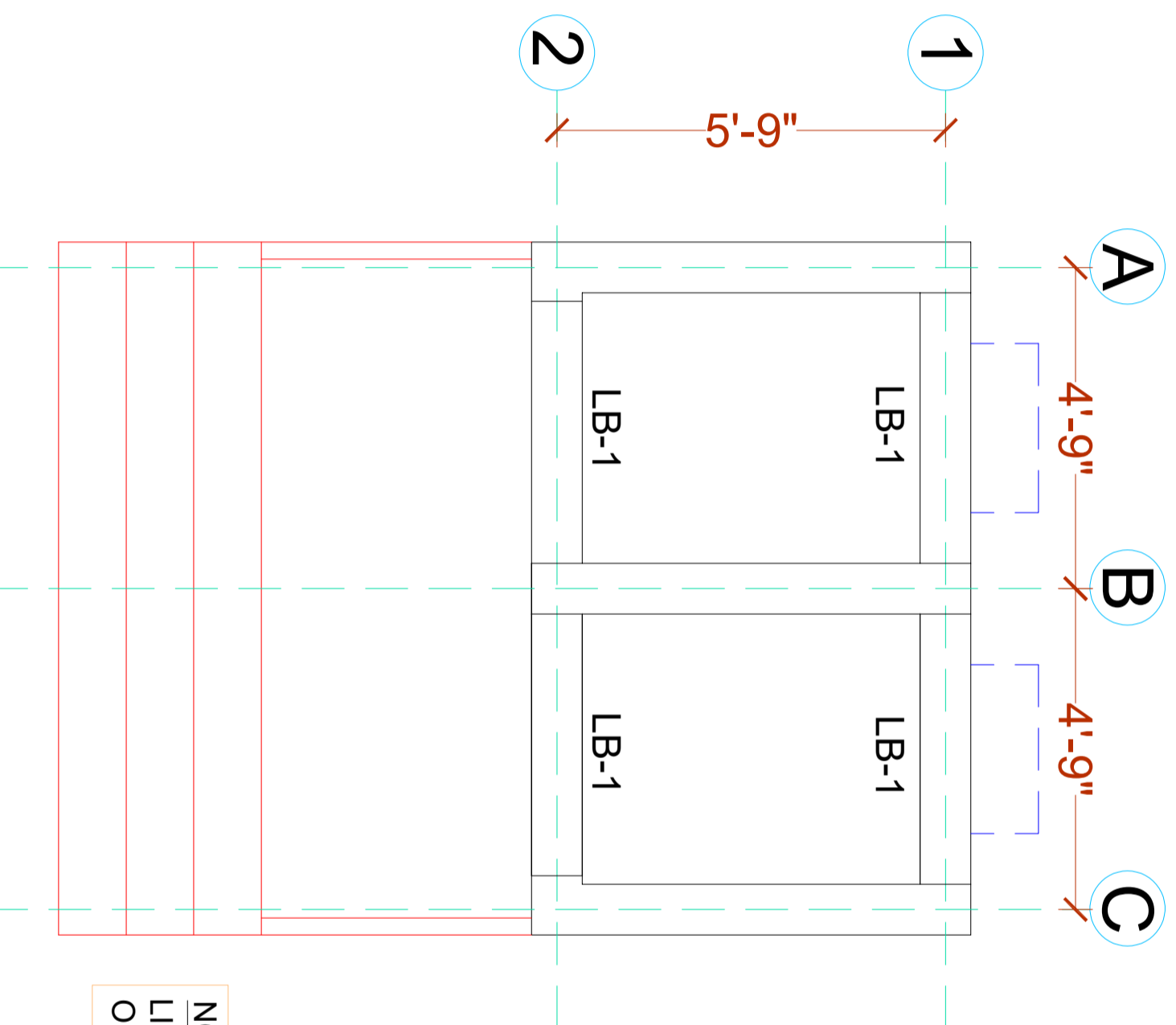
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Date of Revision	Prepared By	RAJIB KHAN KHAJANHADER STRUCTURE ENGINEER	PROJECT:
	Designed By	Engr. HUMZA AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Checked By		
	Approved By		
			DATE: SEP 2023
			SCALE
			DRG. NO. S-04



NOTE
 LINTEL BEAM WILL BE EXTEND
 ON BOTH SIDE UP TO 1'

GROUND FLOOR LINTEL BEAM PLAN

CLIENT:



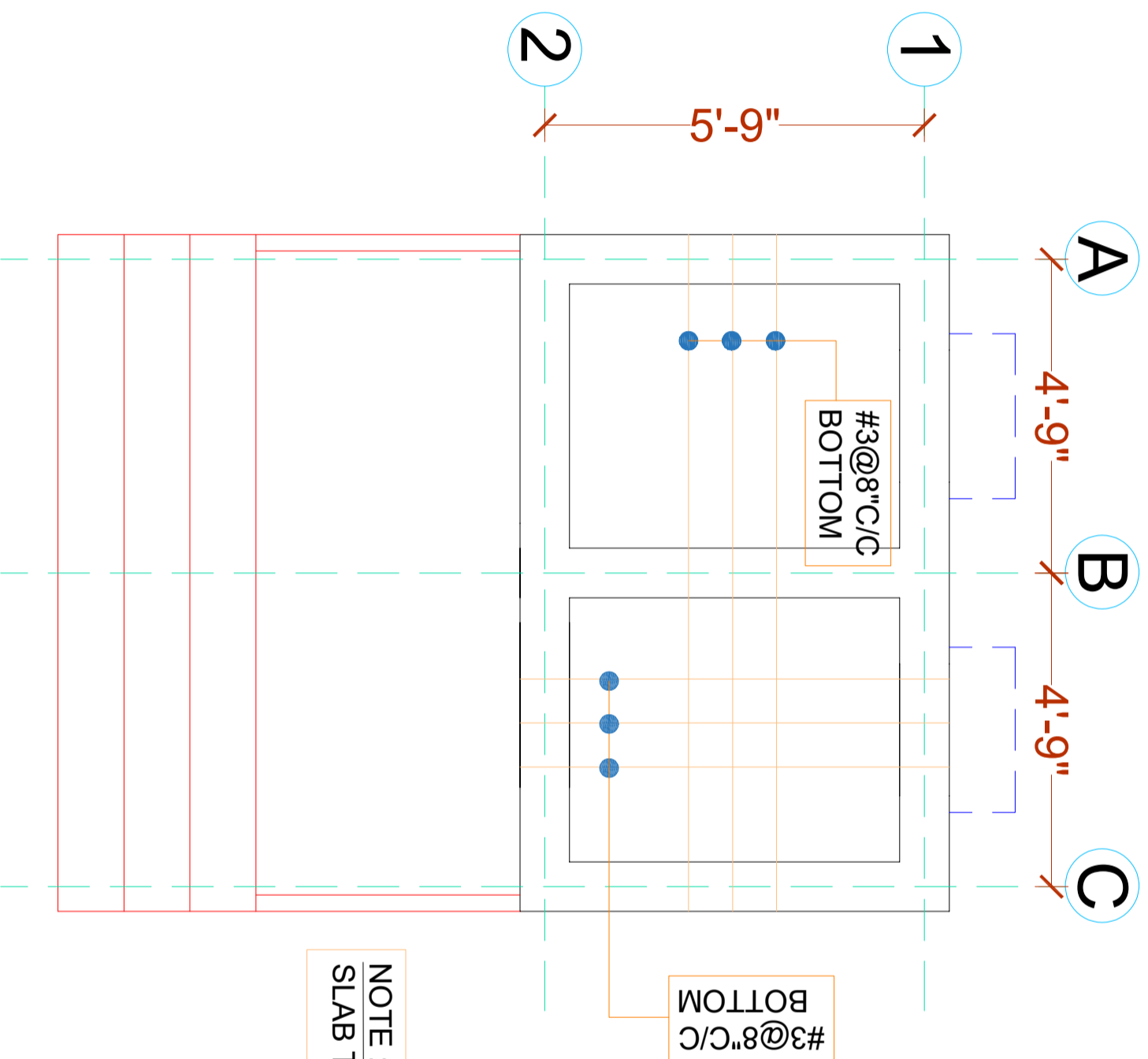
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PROJECT:		
PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES		
TITLE:	GROUND FLOOR LINTEL BEAM PLAN	
DATE	SCALE	DRG. NO.
S/P/ 2023		S-05



NOTE :
SLAB THICKNESS = 5"

GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN

CLIENT:



CONSULTANTS:



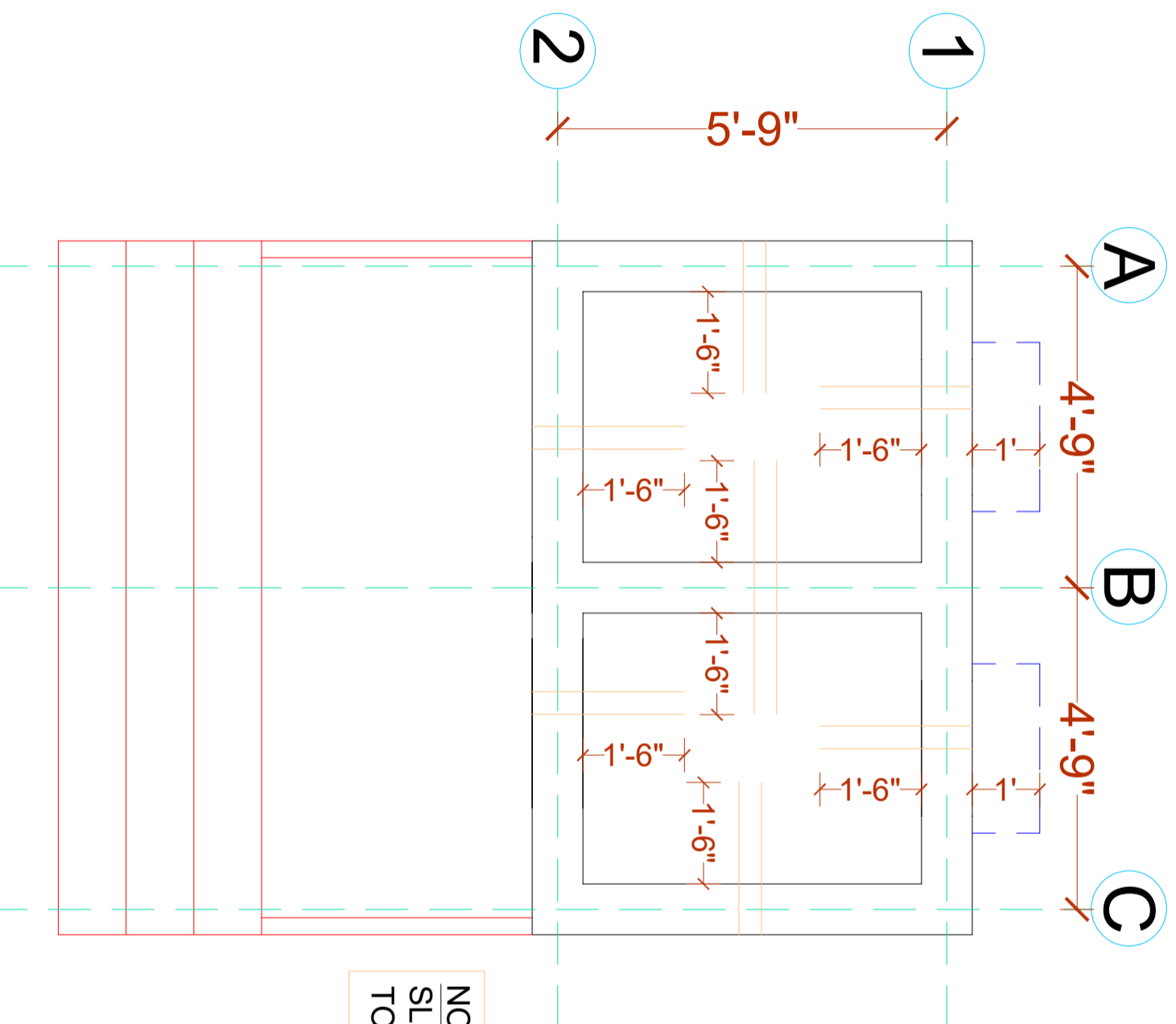
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Date of Revision	Prepared By	STRUCTURE ENGINEER:	PROJECT:
	Farid Khan Khan/Hander	Engr. Humza Ahmad	PREPARATION OF DESIGN DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By		TITLE:
	Checked By		GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN
	Approved By		DATE
			SEP 2023
			SCALE
			DRG.NO.
			S-06



NOTE :
 SLAB THICKNESS = 5"
 TOP REINFORCEMENT = #4@8"C/C

GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

CLIENT:

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	Checked By	
	Approved By	

PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOOKS
 FOR CONSTRUCTION/REHABILITATION OF SITES

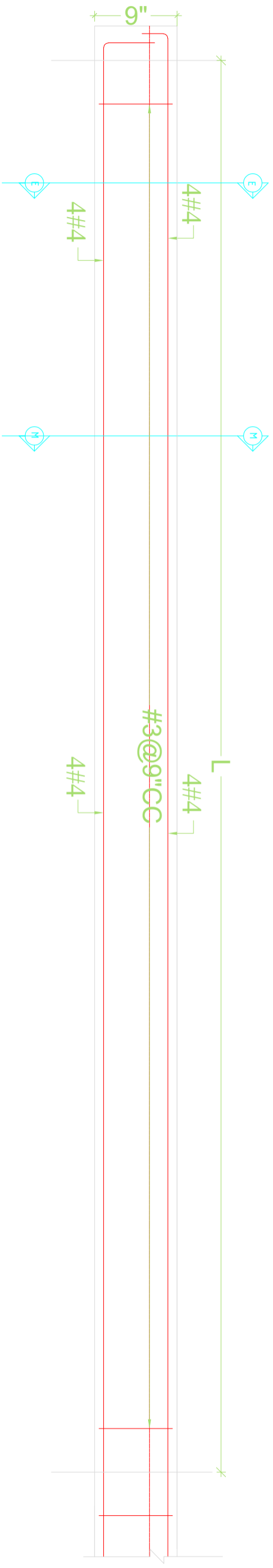
TITLE:

GROUND FLOOR SLAB TOP
 REINFORCEMENT PLAN

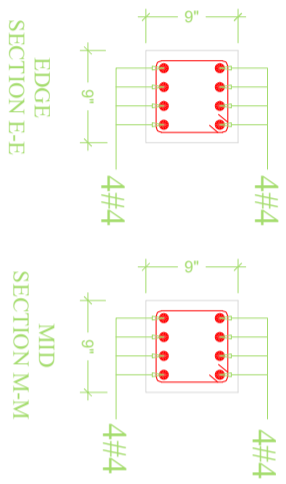
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TYPICAL ELEVATION OF LB-1



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	Approved By	

PROJECT: PREPARATION OF DESIGN DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE: LINTEL BEAM DETAIL		
DATE	SCALE	DRG.NO.
SEP 2023	SCALE	S-08


PLUMBING DRAWING

GENERAL NOTES

ALL UNDER GROUND SEWAGE PIPES SHALL HAVE A MINIMUM SLOPE OF 1%.
 ISOLATING VALVES SHALL BE PROVIDED TO SEPARATE THE INDIVIDUAL TOILETS, GATE VALVES SHALL BE PROVIDED TO/ FROM WATER HEATERS
 EXACT LOCATION OF WATER PIPE WORK SHALL BE DETERMINED ON SITE.
 PROVIDE ISOLATING VALVE ON ALL MAIN AND BRANCH LINES FOR MAINTENANCE.
 IN PLUMBING WATER SUPPLY SYSTEM THE PIPE DIAMETER INDICATED ARE NET FLOW AREAS (i.e. INTERNAL DIAMETERS) AND THE CONTRACTOR SHALL USE ADEQUATE PIPES SIZE, SPECIALLY WHEN USING PLASTIC PIPES TO ACCOUNT FOR PIPE WALL THICKNESS.
 CONTRACTOR TO PROVIDE OVERFLOW, TEST PIPE, WARNING LEVEL AND DRAIN CONNECTION.

FOR COLD WATER SUPPLY PPR PN-20 PIPES SHALL BE USED.
 ALL EXPOSED COLD AND HOT WATER PIPING SHALL BE PPR.
 ALL HOT WATER PIPES SHALL BE PPR PN-20.
 ALL HOT WATER PIPES SHALL BE INSULATED.
 PPR PIPE INTERNAL CLEAR DIA.
 ALL SUI GAS PIPE SHALL BE G.I PIPE BEST QUALITY

LEGEND FOR PLUMBING	
1	MAIN HOLE
2	2" Ø u.p.v.c VENT PIPE ABOVE

LEGEND	
	CW COLD WATER SUPPLY & MAKEUP WATER
	HW HOT WATER SUPPLY
	WMH WASTE WATER MANHOLE
	SMH SOIL WATER MANHOLE
	HWG HOT WATER GEYSER
	W.C WATER CLOSET (ENGLISH)
	W.C WATER CLOSET (INDIAN)
	W.B WASH BASIN
	F.T FLOW TRAP
	T.R TOWEL RAIL (ROD)
	SH SHOWER
	TAP
	OHWT OVER HEAD WATER TANK
	UGWT UNDER GROUND WATER TANK

CLIENT:



The UN Refugee Agency

CONSULTANTS:

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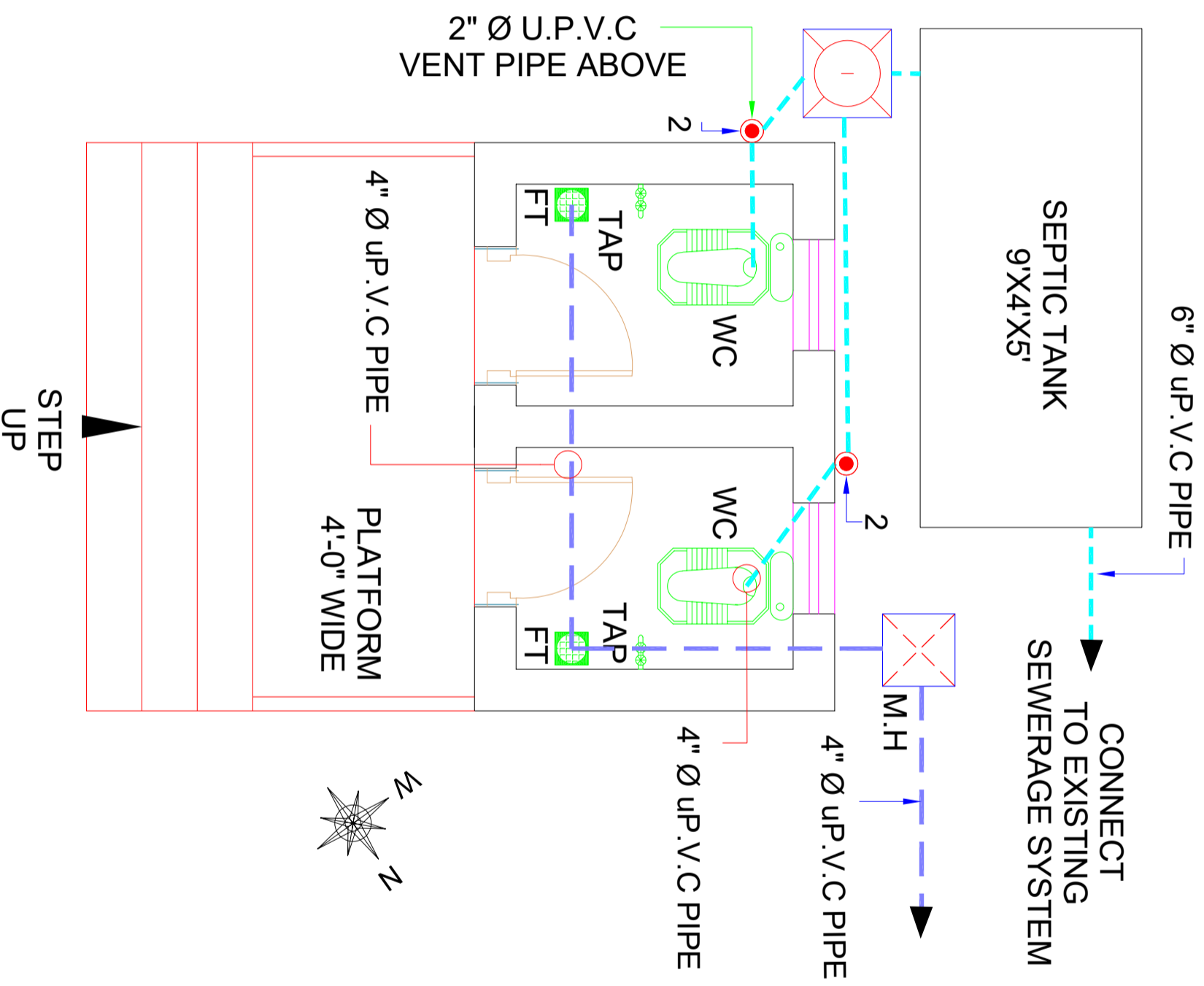
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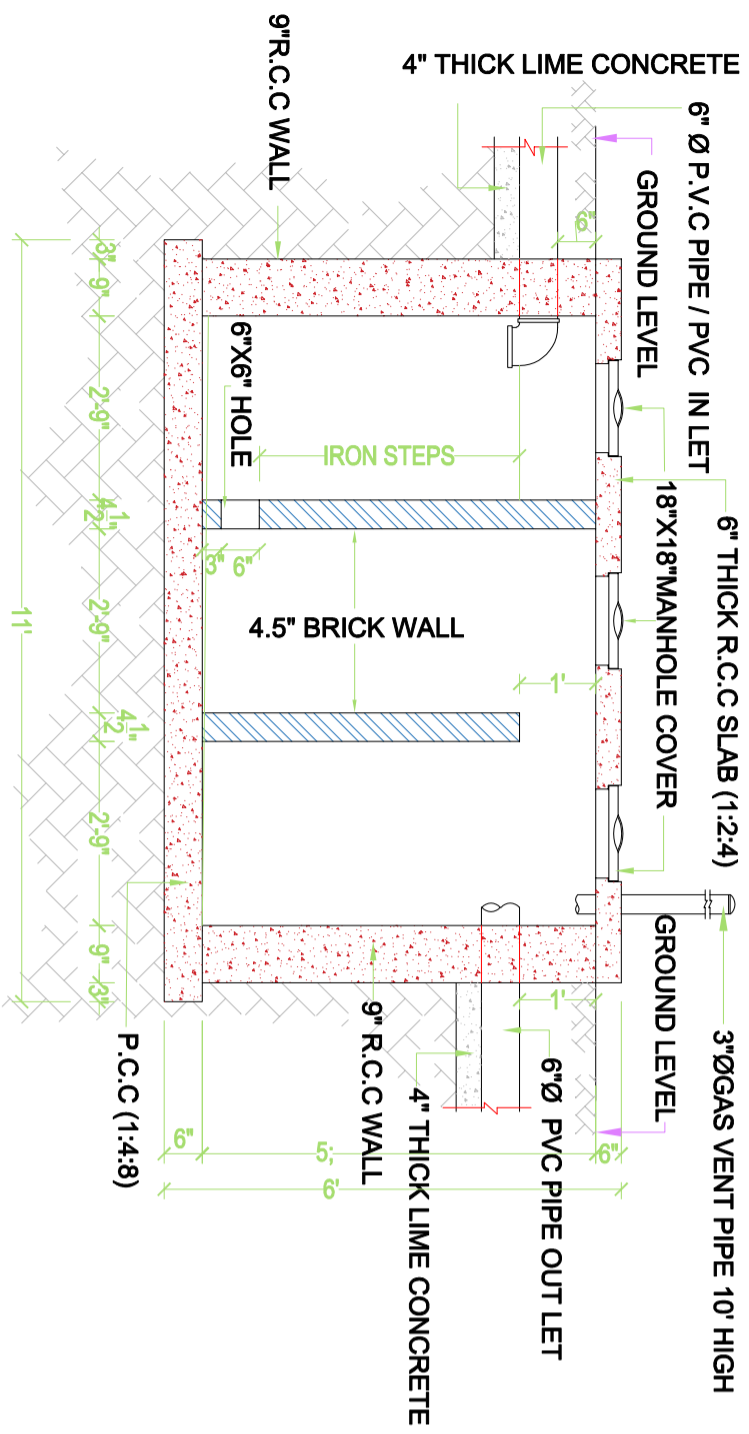
REHAB WORKS OF
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 TEHSIL & DISTRICT
 ATTOCK

Date of Revision	Prepared By	ARCHITECT	PROJECT:
	Designed By	MARWAT KHAN ORAKZAI (B.Arch, C.E.T Karachi) (M.Arch, UET, Lahore)	PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/ REHABILITATION OF SITES
	Checked By		GENERAL NOTES
	Approved By		DATE: SEP 2023
			SCALE
			DRG.NO. P-01

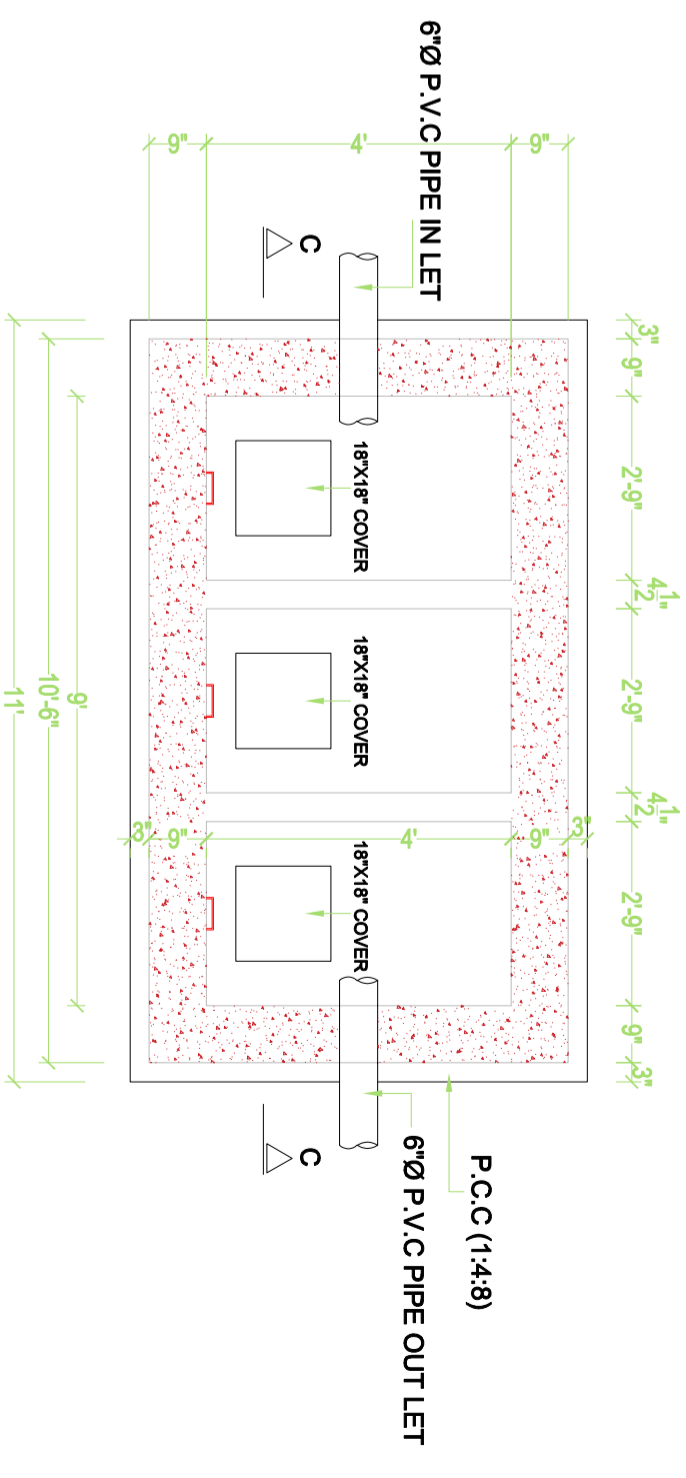


GROUND FLOOR PLUMBING PLAN

CLIENT:		CONSULTANTS:		SCHOOL NAME		PROJECT:	
 UNHCR The UN Refugee Agency		 PLANNERS CONSULTANTS ENGINEERS (PCE)		REHAB WORKS OF GBHSS HASSAN ABDAL TEHSIL & DISTRICT ATTOCK		PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES	
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				Designed By MARWAT KHAN ORAKZAI (B.Arch.D.C.E.T Karachi) (M.Arch.DET, Lahore)		TITLE: GROUND FLOOR PLUMBING PLAN	
				Checked By		DATE SEP 2023	
				Approved By		SCALE	
						DRG.NO. 1-02	



SEPTIC TANK SECTION



SEPTIC TANK PLAN

CLIENT:



CONSULTANTS:

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REHAB WORKS OF
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 TEHSIL & DISTRICT
 ATTOCK

Date of Revision

Prepared By

ARCHITECT
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 KHANHAIDR

PROJECT:
 PREPARATION OF DESIGN DRAWINGS & BOQS
 FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:
 SEPTIC TANK PLAN

DATE
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SCALE

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 P-03













Designed By

ARCHITECT
 MARWAT KHAN ORAKZAI
 (B.Archd C.E.T Karachi)
 (M.Archd. UET, Lahore)

Checked By

Approved By

**WATER SUPPLY
DRAWING**

LEGEND	
	CW COLD WATER SUPPLY & MAKEUP WATER
	HW HOT WATER SUPPLY
	WMH WASTE WATER MANHOLE
	SMH SOIL WATER MANHOLE
	HWG HOT WATER GEYSER
	W.C WATER CLOSET (ENGLISH)
	W.C WATER CLOSET (INDIAN)
	W.B WASH BASIN
	F.T FLOW TRAP
	T.R TOWEL RAIL (ROD)
	SH SHOWER
	TAP
	OHWT OVER HEAD WATER TANK
	UGWT UNDER GROUND WATER TANK

CLIENT:



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SCHOOL NAME

REHAB WORKS OF
 GBHSS HASSAN ABDAL
 TEHSIL & DISTRICT
 ATTOCK

Date of Revision

Prepared By

FARID KHAN
 KHAN HAIDER

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOOKS
 FOR CONSTRUCTION/REHABILITATION OF SITES

Designed By

ARCHITECT
 MARWAT KHAN ORAKZAI
 (B.Arch, D.C.E.T Kanesh)
 (M.Arch, UET, Lahore)

TITLE:

LEGEND

Checked By

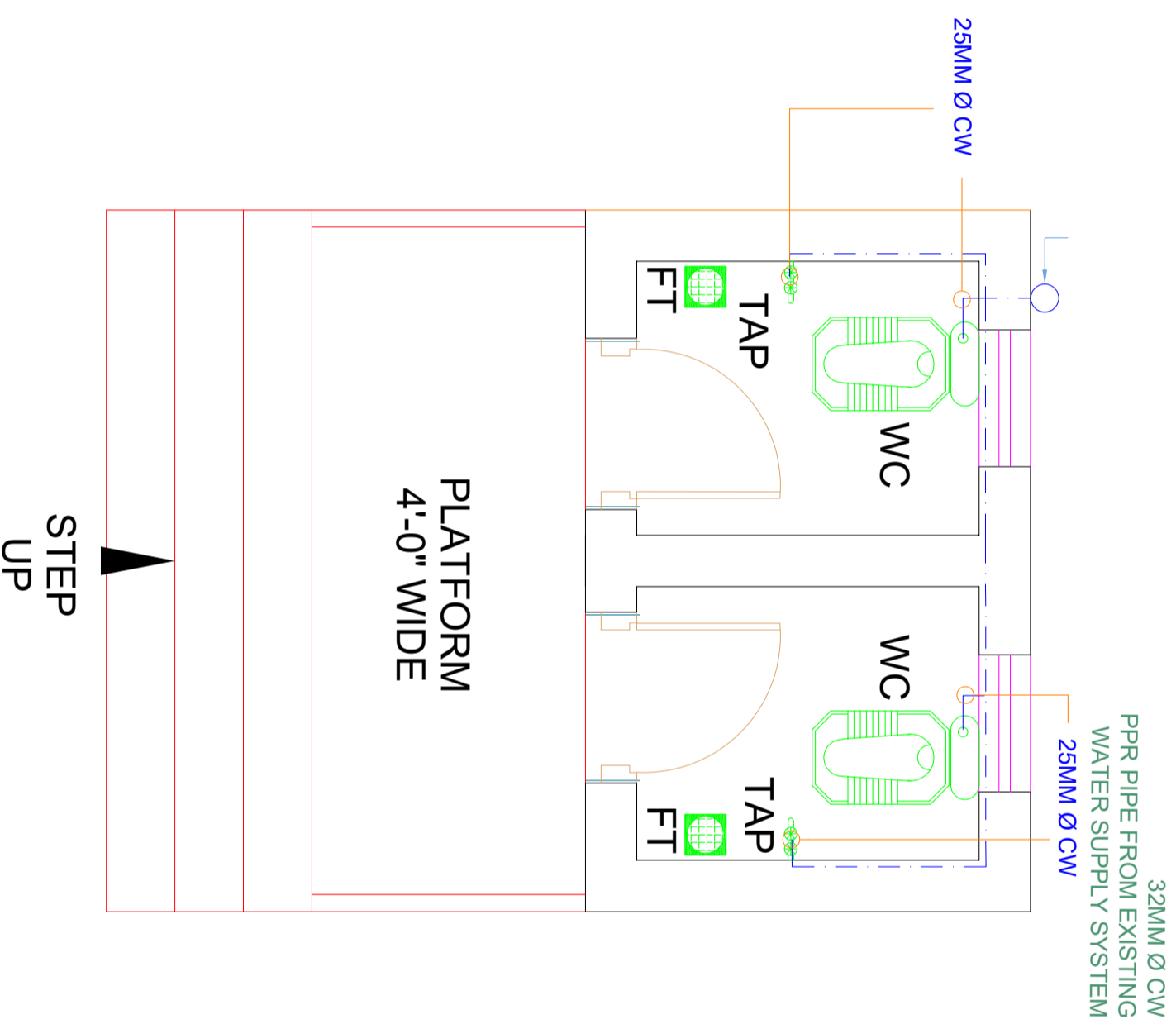
Approved By

DATE
 SEP 2023

SCALE

DRG.NO.

WS-01



GROUND FLOOR WATER SUPPLY PLAN

CLIENT:



CONSULTANTS:



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Date of Revision

Prepared By

FAHIM KHAN
KHAN HADIR
ARCHITECT

PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOQS
FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

GROUND FLOOR WATER SUPPLY PLAN

Designed By

MARWAJ EBANORAZAI
ARCHITECT (Peshawar)
(Member IET, Lahore)

Checked By

Approved By

DATE

SEP 2023

SCALE

DRG.NO.

WS-02

**ELECTRIFICATION DRAWINGS
OF
REHAB WORKS
AT
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOK**

	ELECTRICAL DRAWINGS		
1	GENERAL NOTES	E-01	
2	APPROVED MANUFACTURE LIST	E-02	
3	LEGEND	E-03	
4	GROUND FLOOR PLAN	E-04	
5	GROUND FLOOR DIMENSION PLAN	E-05	

CLIENT:



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SCHOOL NAME
 REHAB WORKS OF
 GBHSS HASSAN ABDAL
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Date of Revision	Prepared By	FAHAD KHAN KHAJ HAJER ELECTRICAL ENGINEER
	Designed By	Egr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:
 PREPARATION OF DESIGN, DRAWINGS & BOQS
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
 LIST OF DRAWINGS

DATE SEP 2023 **SCALE** **DRG.NO.** E-00

ELECTRICAL SYSTEMS

FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.

1. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS. THE SITE CONDITIONS NECESSITATE ALTERATION OR DEVIATION OF THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
2. DIMENSIONS / MEASUREMENTS IS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITION OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.

4. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.

5. ALL NON CURRENT CARRYING PARTS, i.e. OUTER CASINGS OF EQUIPMENT SUCH AS H.T & IT PANELS, DISTRIBUTION BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTION FOR EQUIPMENT ETC.

SHALL BE CONNECTED TO THE GROUND-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 TO 10MMsq SINGLE CORE COPPER CONDUCTOR PVC CABLE.

6. 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.

7. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENT SHALL BE VADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASY OF MAINTENANCE.

8. LOAD ON ALL PHASES SHALL BE MAXIMUM BALANCED AT THE TIME OF COMMISSIONING STAGE. IT IS RESPONSIBILITY OF CONTRACTOR.

9. CONDUIT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP TO CONDUIT TO FINISH FLOOR LEVEL.

10. ALL WIRING SHOULD BE CARRIED OUT ACCORDING TO THE PHASES RED, YELLOW, BLUE CABLE COLOUR ARE AS PER PHASE DISTRIBUTION IN BUILDING.

11. RUN GREEN OR WHITE SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZE AS PROTECTIVE EARTH CONDUCTOR (LCC) ALL ALONG LIGHT AND POWER WIRING WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING OR ILLERIA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR (ECC) IN RELATION TO THE AREA OFFICE PHASE CONDUCTORS RUN SEPARATE ECC FOR EACH CIRCUIT.
 -ECC 2 PHASE CONDUCTOR OF SAME SIZE FOR UPTO AND INCLUDING 16 MMSQ CABLES
 -FOR CABLES OF 50 MM SQ AND ABOVE SIZES IS HALF SIZE OF PHASE CONDUCTOR
 -MINIMUM SIZE ECC IS 70MM SQ.

12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE FLEXIBLE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.

13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMILAR TONCOUS 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

NUMBER OF CABLE IN (CONDUIT)	SIZE OF CABLE		
NEW STANDER SIZE MM sq	25 MM (1")	20 MM (¾")	15 MM (½")
1.5 MM sq	13	8	5
2.5 MM sq	10	6	4
4 MM sq	7	4	3
6 MM sq	5	3	2
10 MM sq	3	2	1

14. NORMAL & EMERGENCY CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS.

15. THE WIRING SHELL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHELL BE ALLOWED.

16. THE WIRING SYSTEM SHELL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.

17. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (ECC) TO THE BOTTOM OF FITTINGS SHELL BE AS UNDER UNLESS OTHERWISE SHOWN OR INSTRUCTED

- > SWITCH BOARD 48 INCHES
- > EXHAUST FAN REF TO ARCH DRAWING
- > DISTRIBUTION BOARD 56 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
- > 5 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
- > 15 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
- > 20 AMP SOCKET OUTLETS IN GENERAL AREAS 12 INCHES
- > 16 AMP SOCKET OUTLETS IN KITCHEN (ABOVE COUNTER) 10 INCHES
- > 16 AMP TP SPIN INDUSTRIAL SOCKET OUTLETS IN LABS 12 INCHES
- > CEILING FAN ON SLAB 12 INCHES
- > WALL BRACKET FAN 90 INCHES

CLIENT:



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

Date of Revision	Prepared By	FAHID KHAN KHAN HADDER ELECTRICAL ENGINEER :
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023		E-01
TITLE:		GENERAL NOTES	

APPROVED MANUFACTURE LIST

S NO.	ITEM OR ACCESSORIES	BRAND
01	WIRING CABLE	PAKISTAN,NEW AGE,FAST, GM, COPPERGAT CABLE
02	POWER CABLE	PAKISTAN,NEW AGE,FAST, GM, COPPERGAT CABLE
03	LIGHT FIXTURES	PHILIPS,PIERLITE,CLIPSAL, OSAKA, FAST LIGHT
04	CEILING FAN	PAK, GFC, ROYAL, LAHORE FAN
05	PVC CONDUIT	POLO,BETA,POPULAR, GM, ADAMJEE
06	SWITCHES	PPL
07	LT SWITCHGEAR	SCHNEIDER, ABB, PEL,ELECTRECH
08	MOULDED CASE CIRCUIT BREAKER	SCHNEIDER, CHINT, LS, ABB
9	MINIATURE CIRCUIT BREAKER	SCHNEIDER, CHINT, LS, ABB

CLIENT:  	CONSULTANTS: PLANNERS CONSULTANTS ENGINEERS (PCE) 97-K Industrial Estate, Hayatabad Peshawar Pakistan Ph: 0092-91-5816017, 5891661-4, Fax: 5891845 E-Mail: pce.pesh@yahoo.com	SCHOOL NAME REHAB WORKS OF GBHSS HASSAN ABDAL TEHSIL & DISTRICT ATTOCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">Date of Revision</td> <td style="font-size: small;">Prepared By</td> <td style="font-size: small;">FARID KHAN KIANN HANIDER ELECTRICAL ENGINEER</td> </tr> <tr> <td style="font-size: small;"> </td> <td style="font-size: small;">Designed By</td> <td style="font-size: small;">Engr. HAMMAD AHMAD</td> </tr> <tr> <td style="font-size: small;"> </td> <td style="font-size: small;">Checked By</td> <td style="font-size: small;"> </td> </tr> <tr> <td style="font-size: small;"> </td> <td style="font-size: small;">Approved By</td> <td style="font-size: small;"> </td> </tr> </table>	Date of Revision	Prepared By	FARID KHAN KIANN HANIDER ELECTRICAL ENGINEER		Designed By	Engr. HAMMAD AHMAD		Checked By			Approved By	
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TITLE:	APPROVED MANUFACTURE LIST														
DATE	SEP 2023														
SCALE															
DRG.NO.	E-02														

SYMBOL	DESCRIPTION	INSTALLATION HEIGHT
	SURFACE MOUNTED DOWN LIGHT WITH 17 WATT ENERGY SAVER	CEILING MOUNTED
	TMS 136	SLAB MOUNTED
	56" SWEEP CEILING FAN	SLAB MOUNTED
	SWITCH BOARD	56" FROM FFL
	DISTRIBUTION UNIT	60" FROM FFL
	EXHAUST FAN POINT	

CLIENT:



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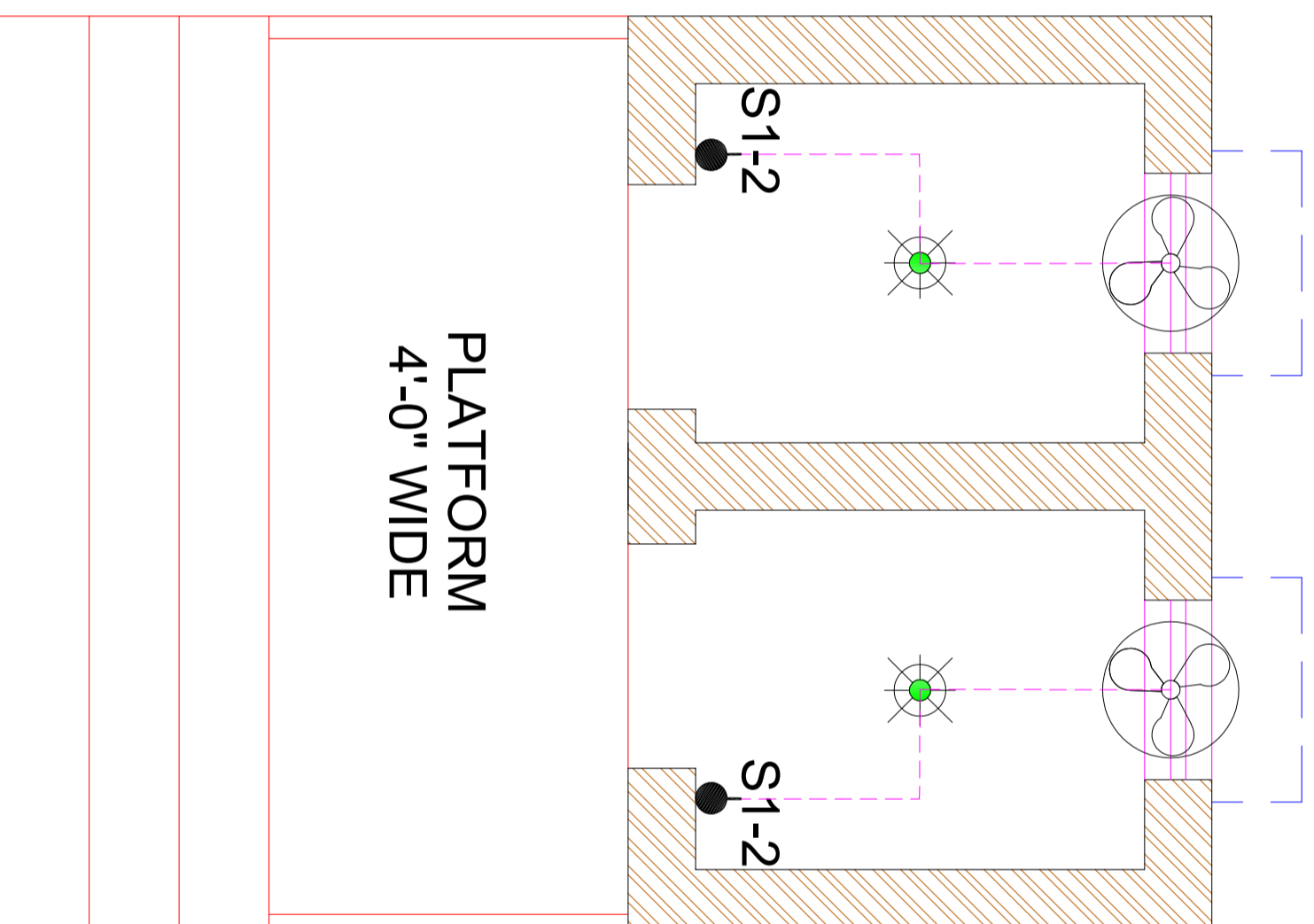
REHAB WORKS OF
GBHSS HASSAN ABDAL
TEHSIL & DISTRICT ATTOK

Date of Revision	Prepared By	ELECTRICAL ENGINEER:
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	Approved By	

PROJECT:

PREPARATION OF DESIGN DRAWINGS & BOQS
FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:	LEGEND
DATE SEP 2023	SCALE
	DRG.NO.
	E-03



GROUND FLOOR PLAN

CLIENT:



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Date of Revision

Prepared By

FARID KHAN
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PROJECT:

PREPARATION OF DESIGN, DRAWINGS & BOQS
 FOR CONSTRUCTION/REHABILITATION OF SITES

TITLE:

GROUND FLOOR PLAN

Designed By
 Checked By
 Approved By

Engr. HAMMAD AHMAD

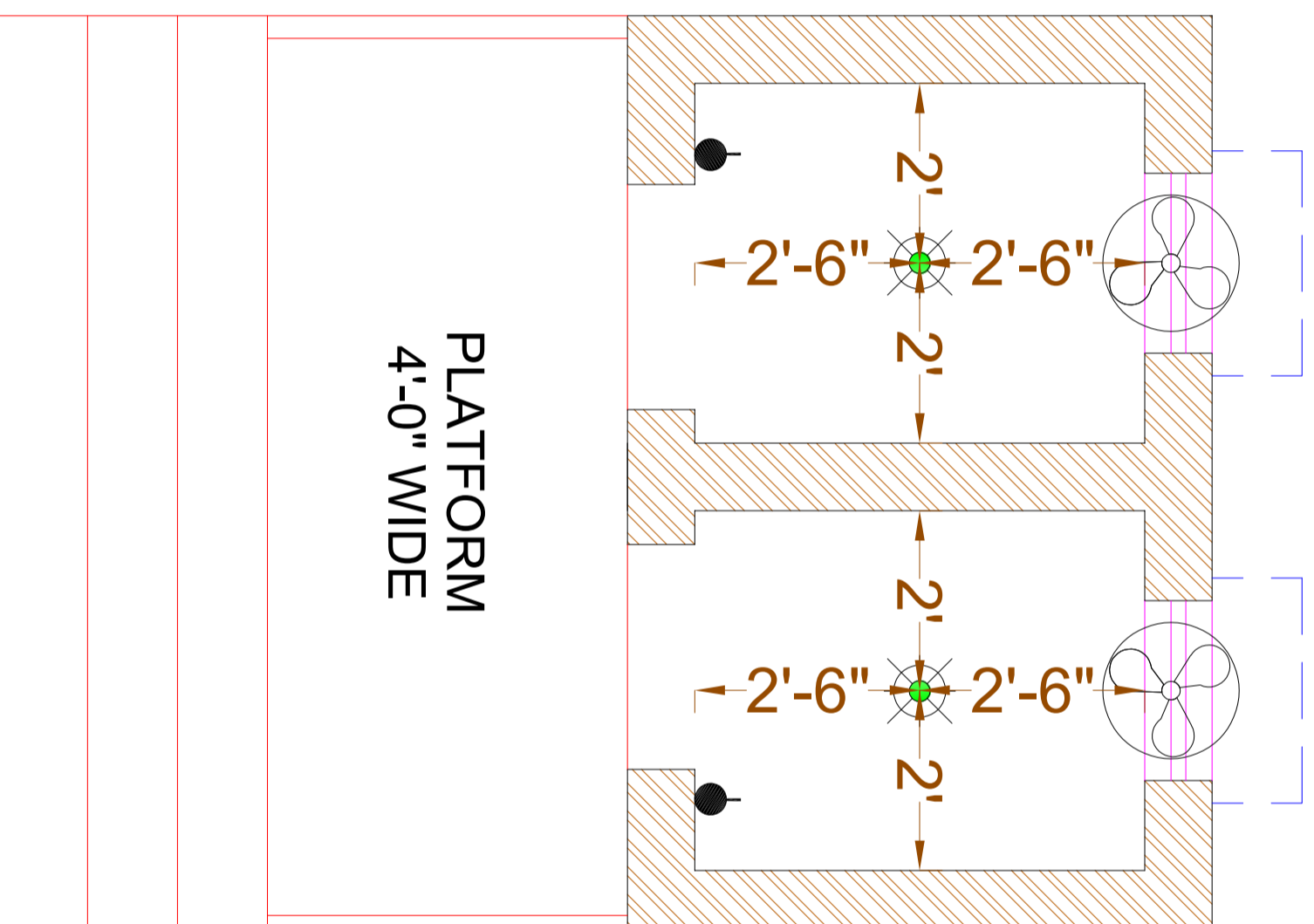
DATE

SEP 2023

SCALE

DRG.NO.

E-04



GROUND FLOOR PLAN

CLIENT:



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	Designed By	Egr. HAMMAD AHMAD	PREPARATION OF DESIGN DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES GROUND FLOOR DIMENSION PLAN		
	Checked By				
	Approved By				
			DATE	SCALE	DRG.NO.
			SEP 2023		E-05