

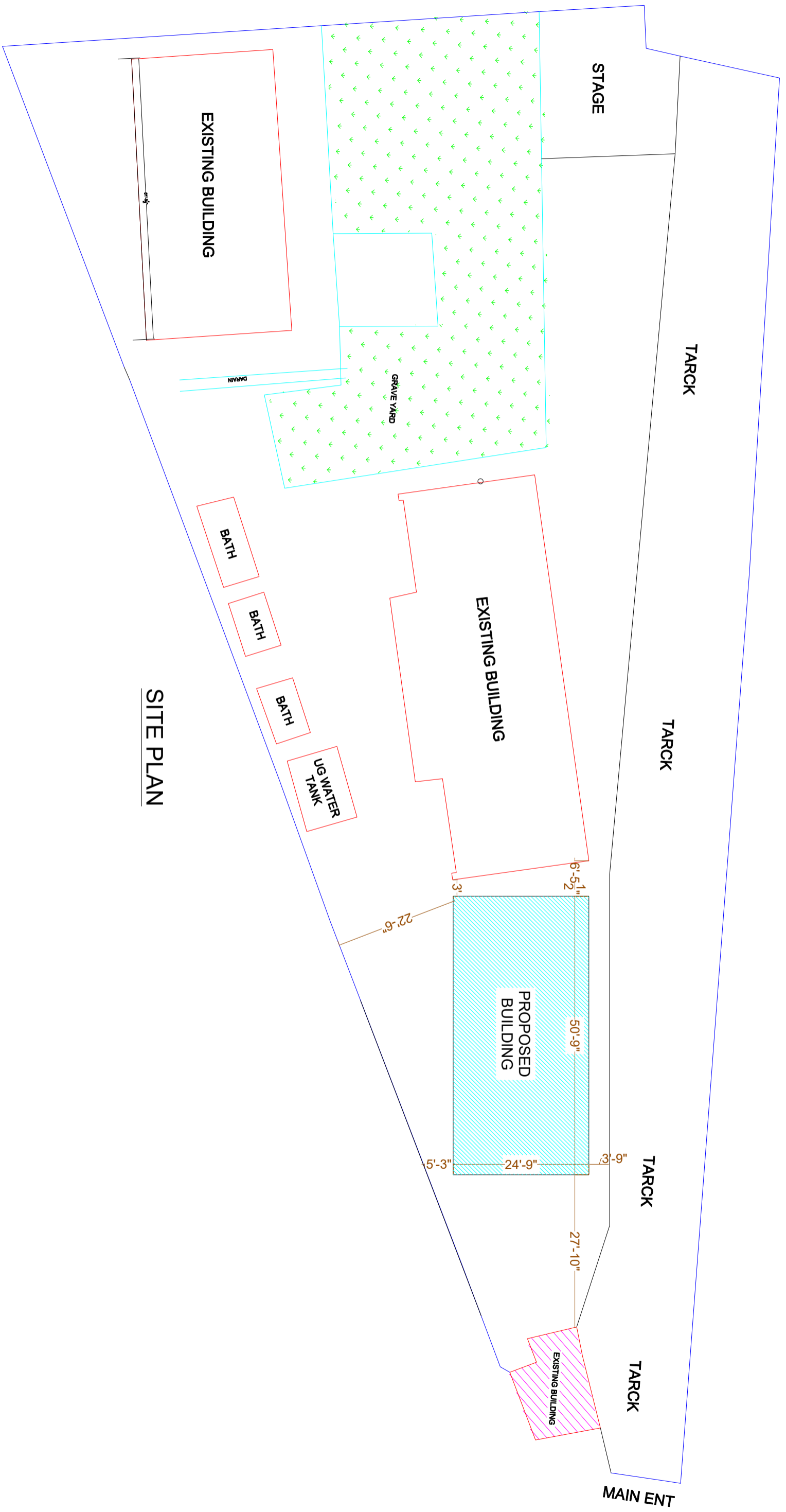
PROPOSED DESIGN  
OF  
GGES HASSAN ABDAL TEHSIL &  
DISTRICT ATTOCK



**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






**SITE PLAN**

CLIENT:



The UN Refugee Agency

CONSULTANTS:



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SCHOOL NAME

GGES HASSAN ABDAL  
 TEHSIL & DISTRICT ATTOCK

Date of Revision	Prepared By	ARCHITECT
	Designed By	MARVAT KHAN ORAKZAI (B.Arch.D.C.E.T Kaneshi)
	Checked By	(M.Arch.UET Lahore)
	Approved By	

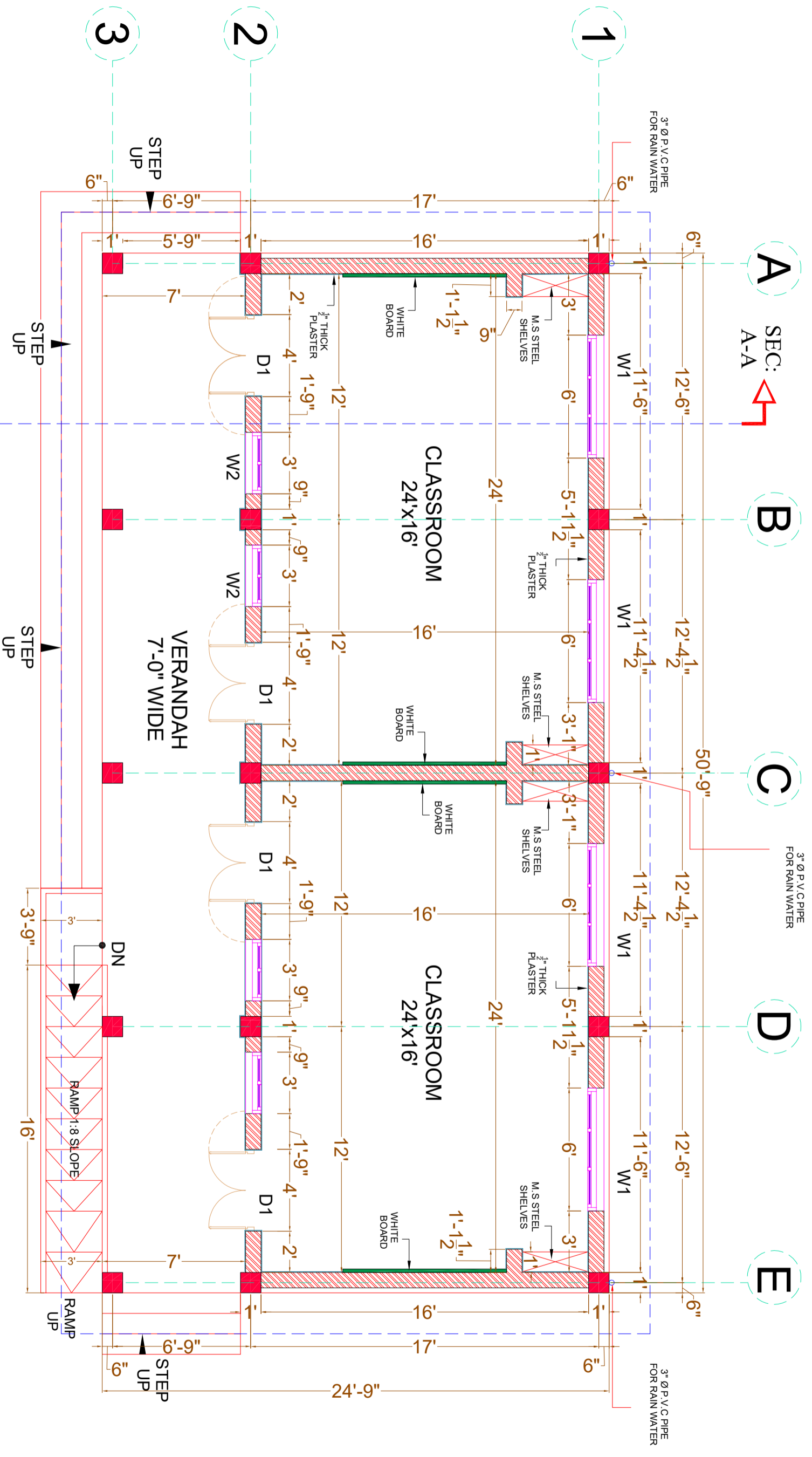
PROJECT:

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

TITLE: SITE PLAN

DATE: SEP 2023

SCALE: DRG.NO. A-01



SEC: A-A  
 A-A

# GROUND FLOOR PLAN

CLIENT:

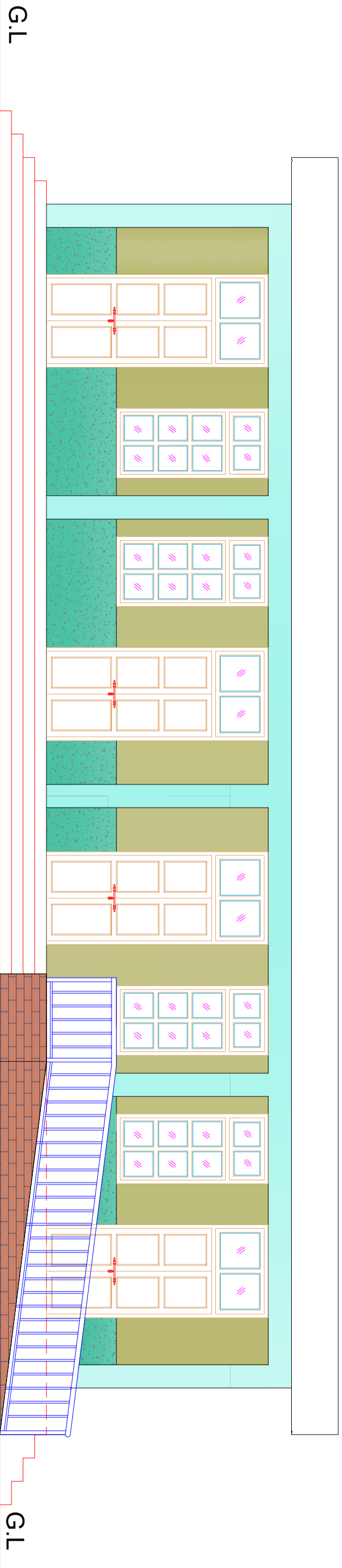


CONSULTANTS:



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SCHOOL NAME		PROJECT:	
GGES HASSAN ABDAL TEHSIL & DISTRICT ATTOCK		PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES	
Date of Revision	Prepared By	ARCHITECT	TITLE: GROUND FLOOR PLAN
	Designed By	MARWAT KHAN ORAZZAI (B.Arch, D.C.E.T. Karachi) (M.Arch, UET, Lahore)	
	Checked By		
	Approved By		DATE: SEP 2023
			SCALE
			DRG. NO.
			A-02



# FRONT ELEVATION

CLIENT:



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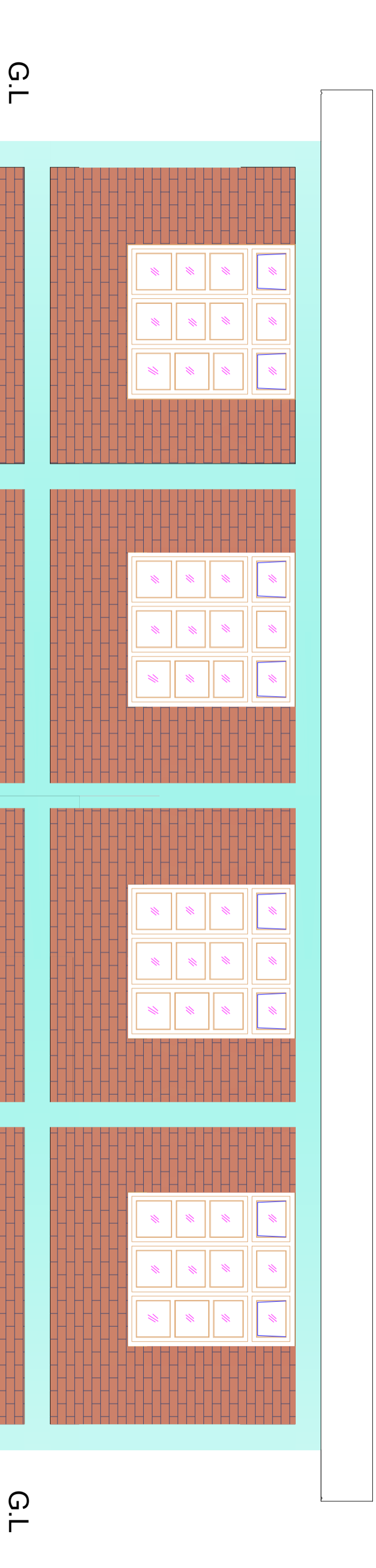
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CONSULTANTS:

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Date of Revision	Prepared By	ARCHITECT	PROJECT:
	FAHAD KHAN KHAN HABIB	MARWAT KHAN ORAKZAI (B. Arch. D. CET Karachi) (M. Arch. UET, Lahore)	PREPARATION OF DESIGN DRAWINGS & BOB FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By		TITLE:
	Checked By		FRONT ELEVATION
	Approved By		DATE
			SEP 2023
			SCALE
			DRG. NO.
			A-03



# REAR ELEVATION

CLIENT:



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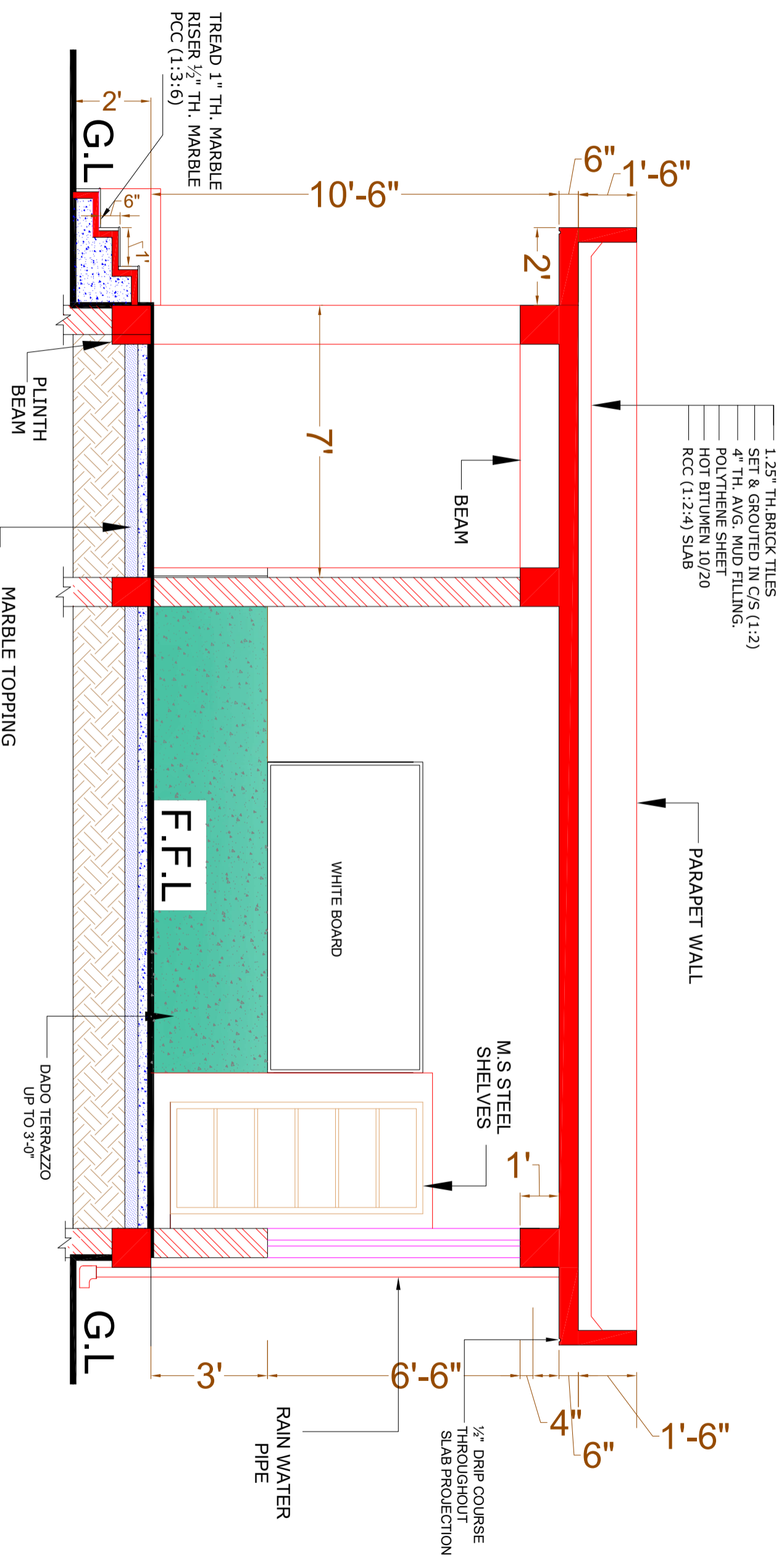
97-K Industrial Estate, Hayatabad Peshawar Pakistan  
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Date of Revision	Prepared By	ARCHITECT	PROJECT:
	Designed By	MARWAT KHAN ORAKZAI (B.Arch/ED C.E.T Karachi) (M.Arch/UEE, Lahore)	PREPARATION OF DESIGN, DRAWINGS & BOOK FOR CONSTRUCTION/ REHABILITATION OF SITES
	Checked By		TITLE: REAR ELEVATION
	Approved By		DATE: SEP 2023
			SCALE
			DRG.NO. A-04



**SECTION AT A-A**

CLIENT:



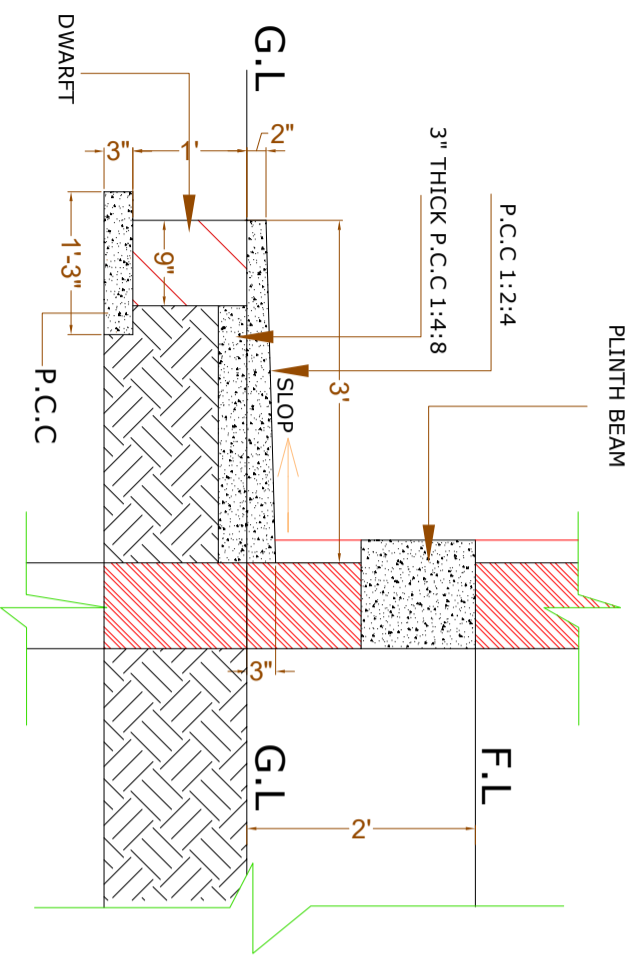
**CONSULTANTS:**  
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**SCHOOL NAME**

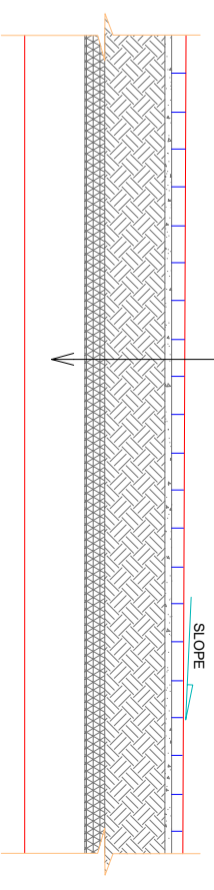
GGES HASSAN ABDAL  
 TEHSIL & DISTRICT ATTOCK

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

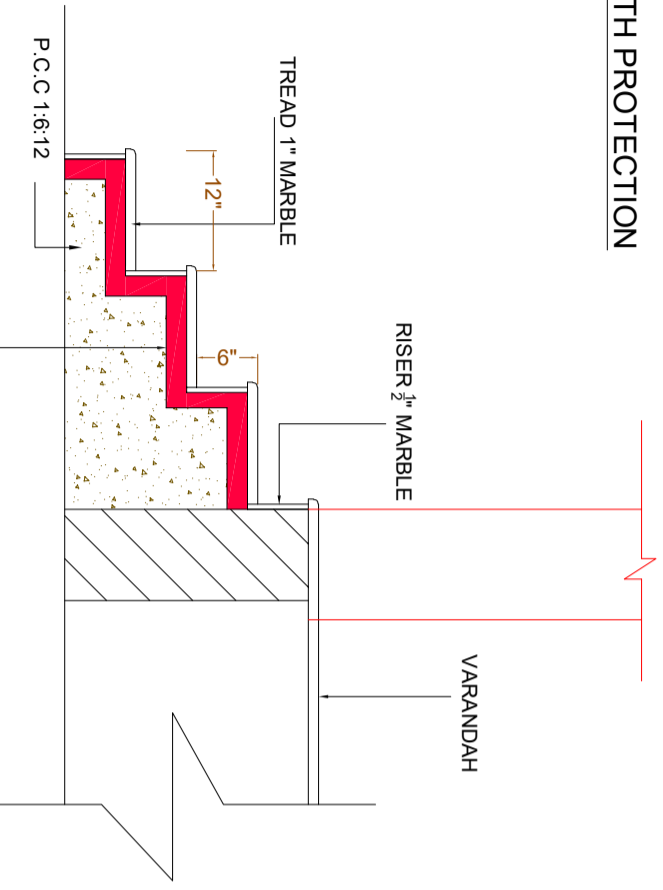
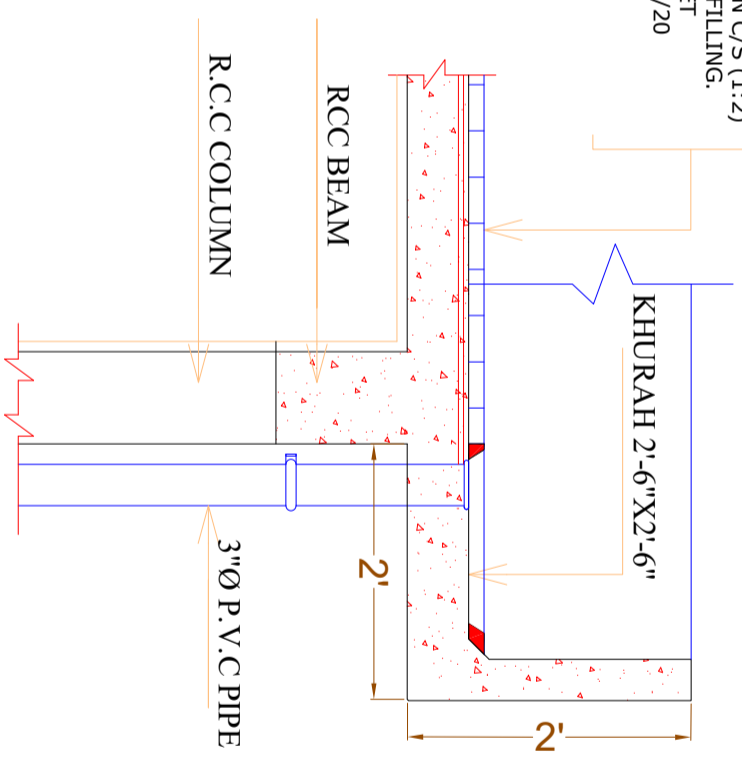
PROJECT:	DATE	SCALE	DRG.NO.
PREPARATION OF DESIGN DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023	SECTION AT AA	A-05



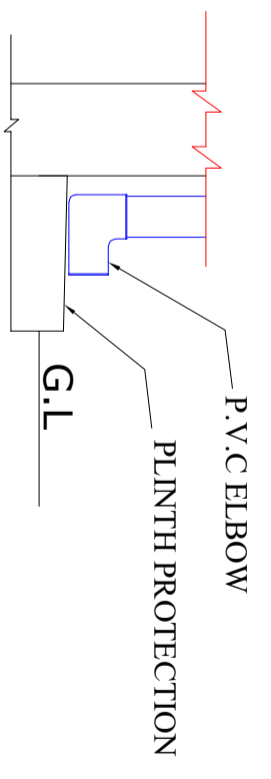
1.25" TH. BRICK TILES  
 SET & GROUTED IN C/S (1:2)  
 4" TH. AVG. MUD FILLING,  
 POLYTHENE SHEET  
 HOT BITUMEN 10/20  
 RCC (1:2:4) SLAB



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



**VERANDAH STEPS DETAILS**




CLIENT:



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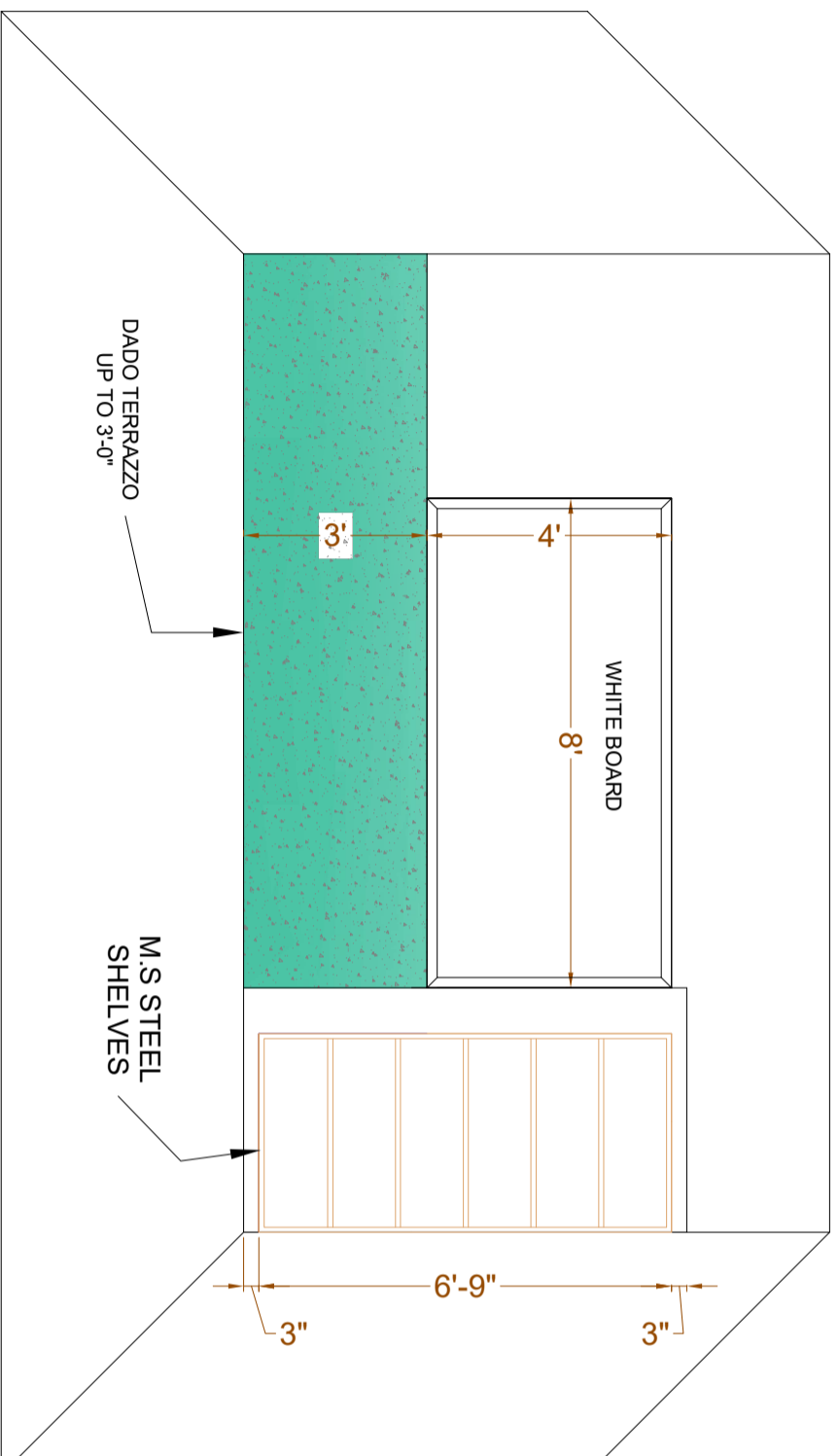
SCHOOL NAME

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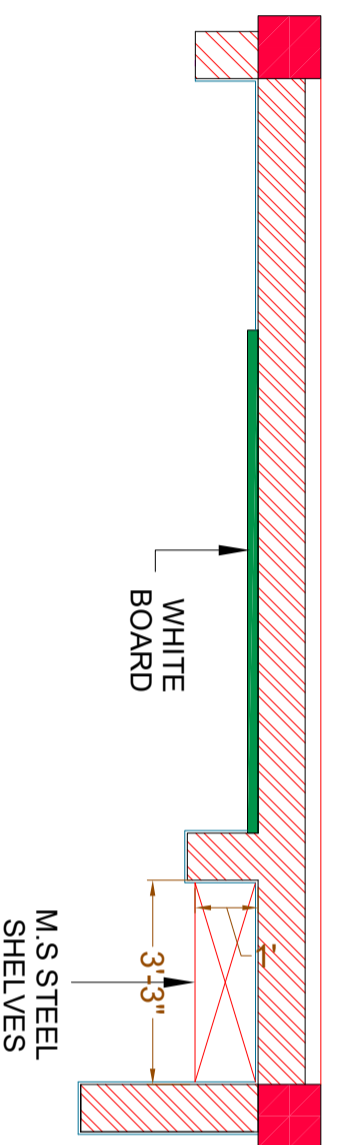
Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORAKZAI (B.Arch.D.C.E.T.Karachi)
	Checked By	(M.Arch.UET, Lahore)
	Approved By	

PROJECT:	PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES
TITLE:	PLINTH PROTECTION, RAIN WATER PIPE AND ROOF TREATMENT DETAILS
DATE	SEP 2023
SCALE	
DRG. NO.	A-06

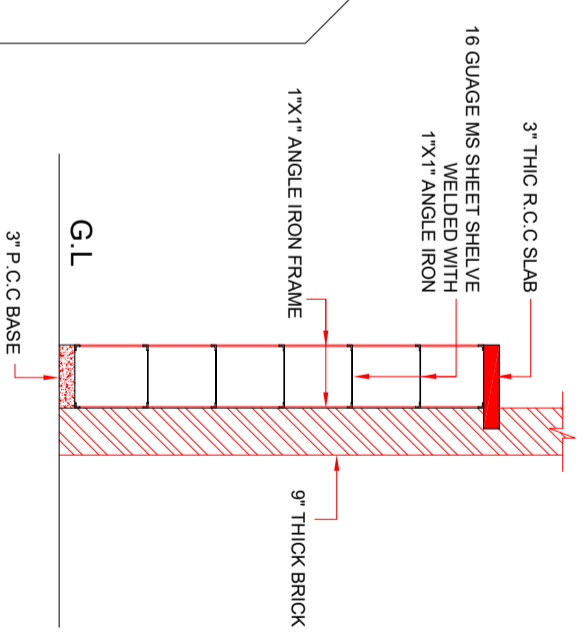




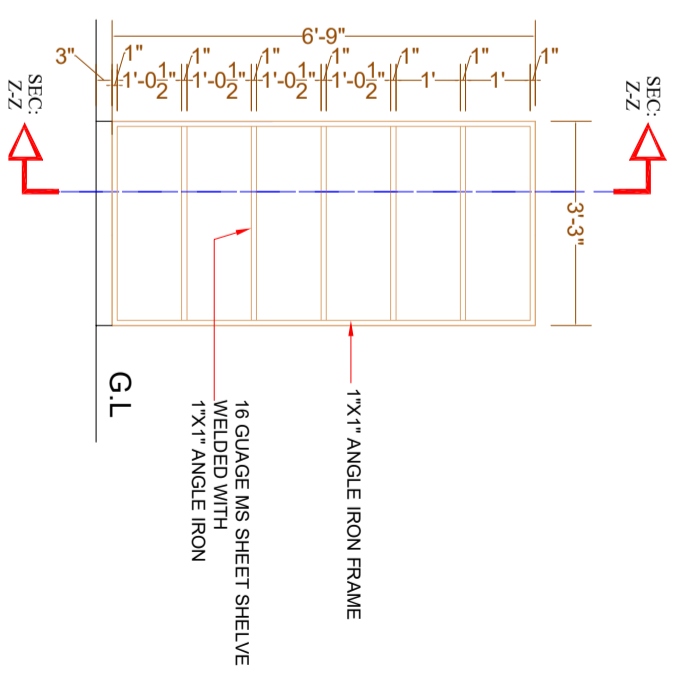
ELEVATION OF WHITE BOARD & CUPBOARD



PLAN OF WHITE BOARD & M.S STEEL SHELVES



SHELVES SECTION AT Z-Z



SHELVES ELEVATION

CLIENT:



CONSULTANTS:

**PLANNERS CONSULTANTS ENGINEERS (PCE)**

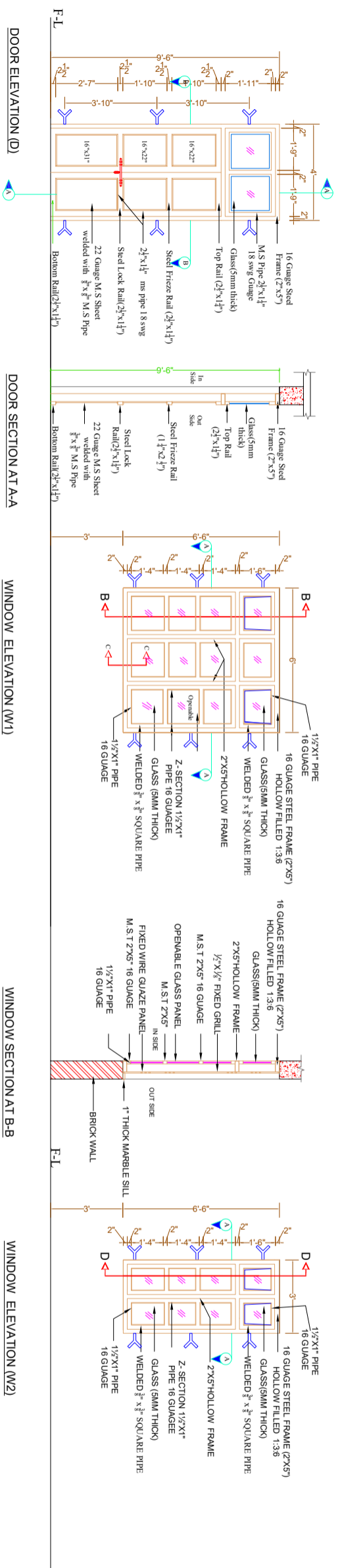
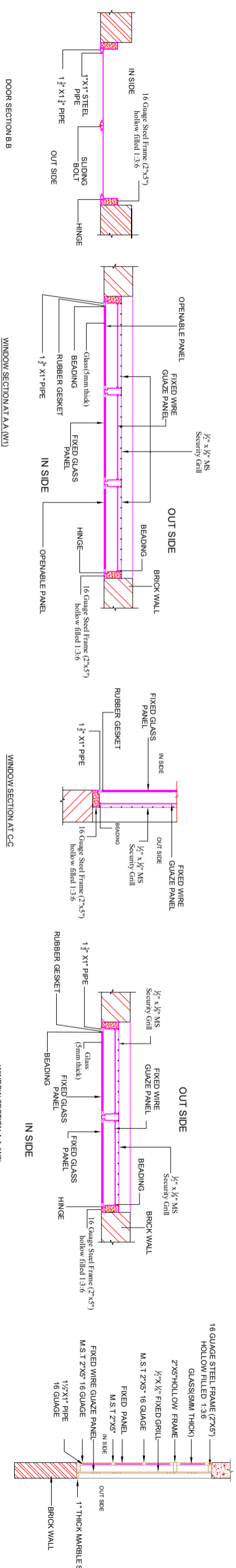
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SCHOOL NAME

GGES HASSAN ABDAL  
 TEHSIL & DISTRICT ATTOCK

Date of Revision	Prepared By	ARCHITECT	PROJECT:
	FARID KHAN KHAN HADDER	ARCHITECT	PREPARATION OF DESIGN DRAWINGS & BOOS FOR CONSTRUCTION/REHABILITATION OF SITES
	Designed By	MARWAT KHAN ORAKZAI (B.Arch D.C.E.T Karachi) (M.Arch UET Lahore)	TITLE: PLAN OF WHITE BOARD & M.S STEEL SHELVES
	Checked By		DATE SEP 2023
	Approved By		SCALE
			DRG.NO. A-07

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

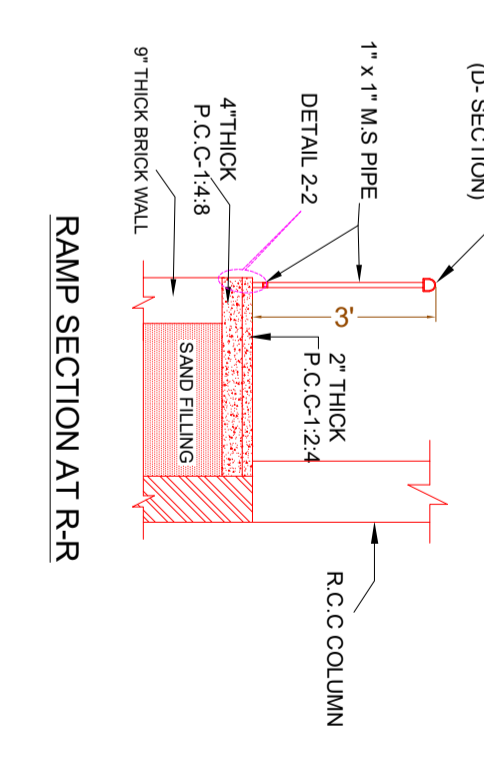
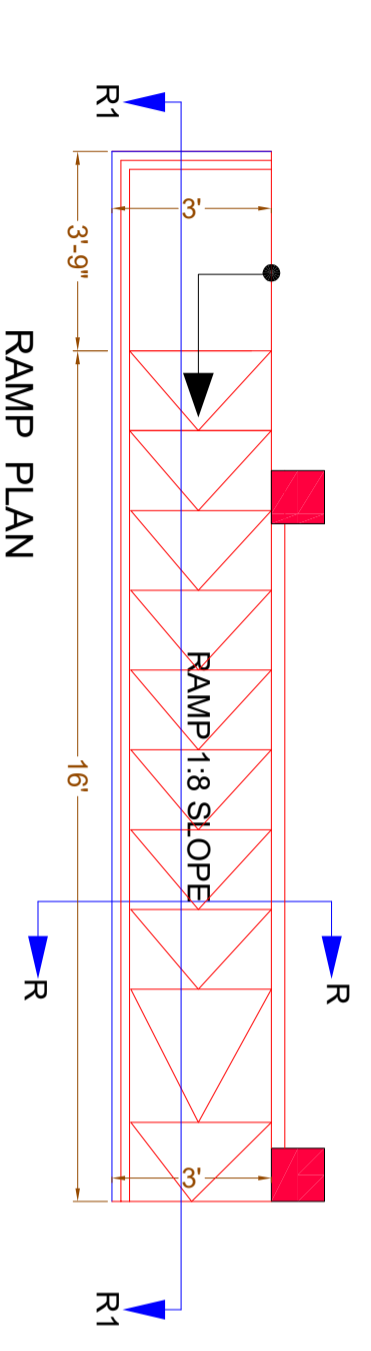
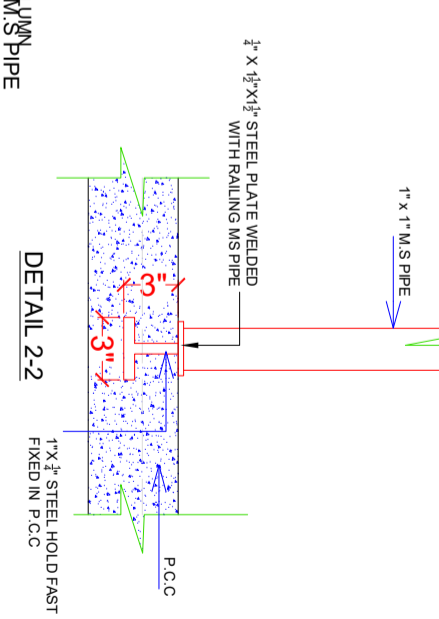
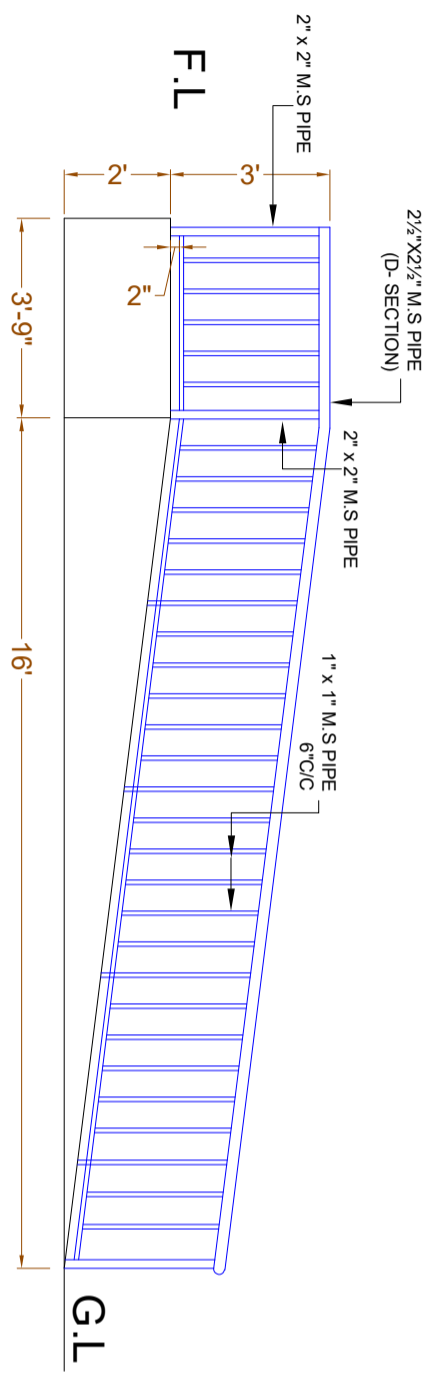
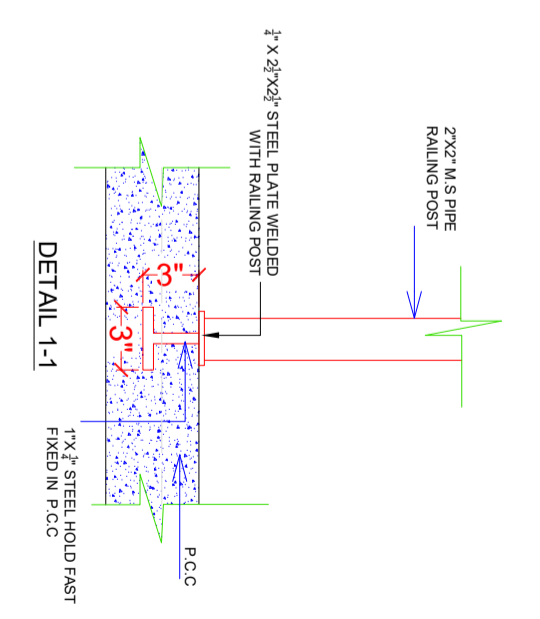
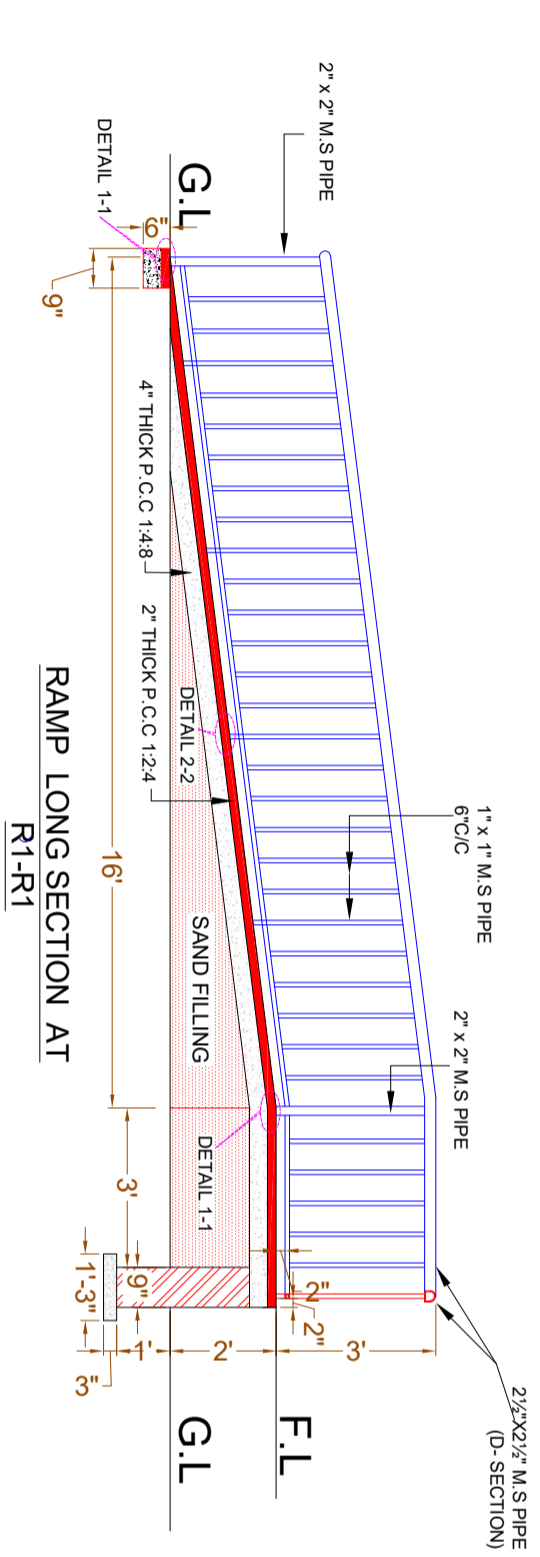


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 The UN Refugee Agency

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SCHOOL NAME  
**GGES HASSAN ABDAL**  
**TEHSIL & DISTRICT ATTOCK**

Date of Revision	Prepared By	ARCHITECT	PROJECT:
	Designed By	ARCHITECT	PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By	MARWAT KHAN ORAKZAI (B.Arch D.C.E.T Karachi) (MArch DEPT. Lahore)	TITLE: DOOR WINDOW DETAILS
	Approved By		DATE: SEP 2023
			SCALE
			DRG.NO. A-08



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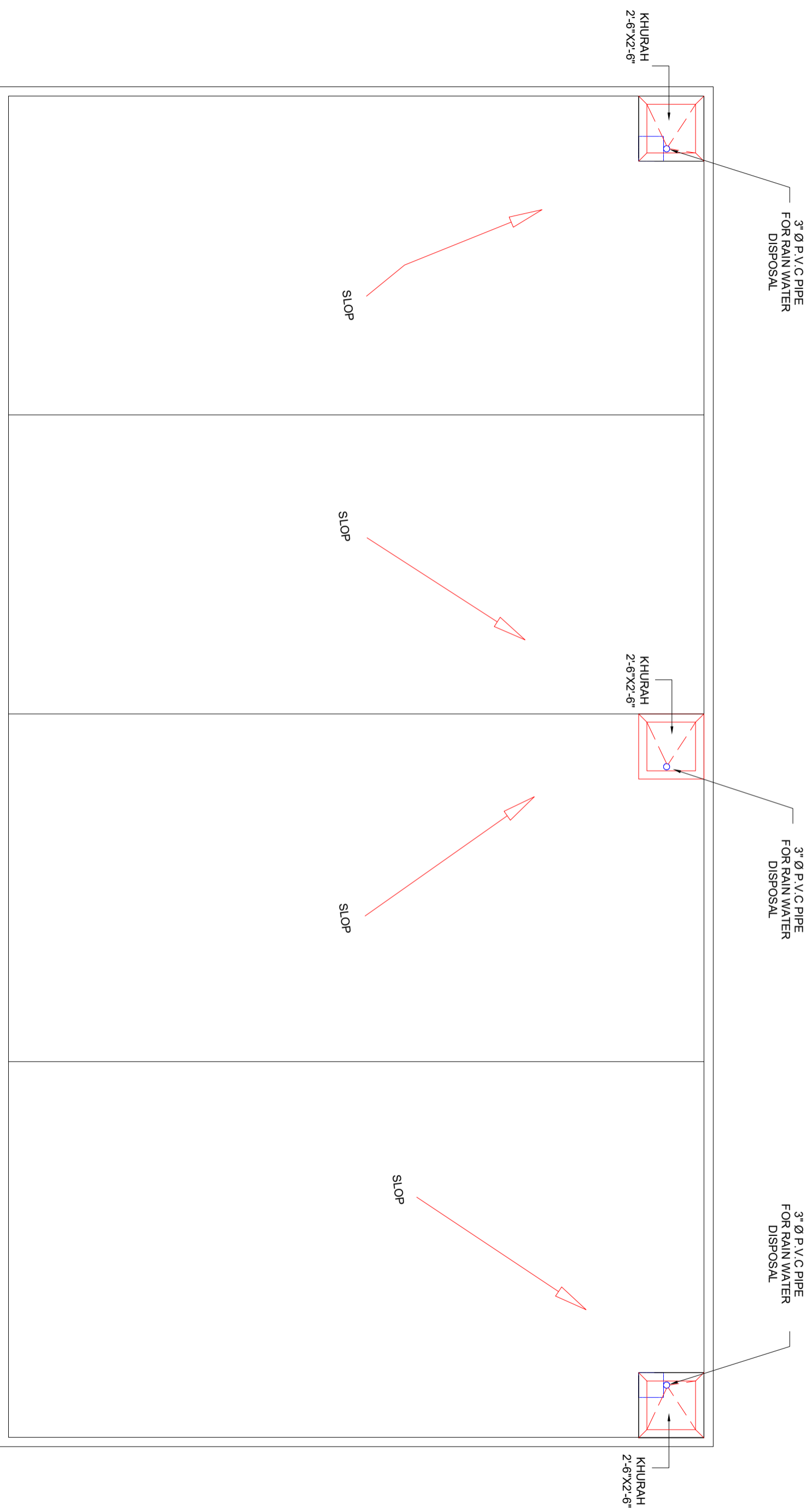
97-K Industrial Estate, Hayatabad Peshawar Pakistan  
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Date of Revision	Prepared By	ARCHITECT
	Designed By	MARWAT KHAN ORAKZAI (B.Arch, C.E.T. Karachi) (M.Arch, UET, Lahore)
	Checked By	
	Approved By	

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



## TOP ROOF PLAN

CLIENT:



CONSULTANTS:



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

PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023	TOP ROOF PLAN	A-10

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

## 1. GENERAL

1. READ ALL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, GEOTECHNICAL, PLUMBING, MECHANICAL, ELECTRICAL & ANY OTHER RELEVANT DRAWINGS. 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.
2. 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.
3. 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.
4. THE CONTRACTOR SHALL CO-ORDINATE WITH VARIOUS SERVICES DRAWINGS FOR SIZES & LOCATION OF ALL STRUCTURAL MEMBERS, FLOORS, WALLS, OPENINGS, FLOOR FINISHES, PIPES ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF DEWATERING SYSTEM WHERE SO REQUIRED DURING CONSTRUCTION.
6. ALL DIMENSIONS & LEVELS ARE IN FEET & INCHES.
7. DO NOT SCALE THE DRAWINGS. DIMENSIONS, GIVEN ON THE DRAWING, SHALL GOVERN.
8. ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE ACI/BRITISH SPECIFICATIONS.
9. BACKFILLING AROUND FOUNDATIONS AND WALLS SHALL BE WELL COMPACTED LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS.
10. 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.
11. THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS IN THE STRUCTURE AND OBTAIN ENGINEER'S APPROVAL THEREOF BEFORE COMMENCING THE WORK.
12. 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.
13. 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.
14. 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.
15. 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.
16. The allowable bearing capacity of soil should be 1tsf.

## 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) GRADE 60 HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI.
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 'B'
RCC WALLS	CLASS 'D'
PCC STEPS, . . . . .	CLASS 'E'
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-308R.

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

## 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.
  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
- 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/sq.ft/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 C62.
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:



UNHCR  
The UN Refugee Agency



PLANNERS CONSULTANTS ENGINEERS (PCE)  
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CONSULTANTS:

SCHOOL NAME

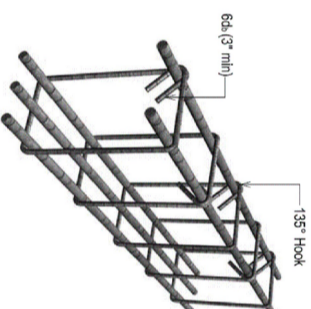
GGES HASSAN ABDAL  
TEHSIL & DISTRICT  
ATTOCK

Date of Revision	Prepared By	STRUCTURE ENGINEER:
	Eng. KIAN YASIN	
	Designed By	Eng. HUMAZ AHMAD
	Checked By	
	Approved By	

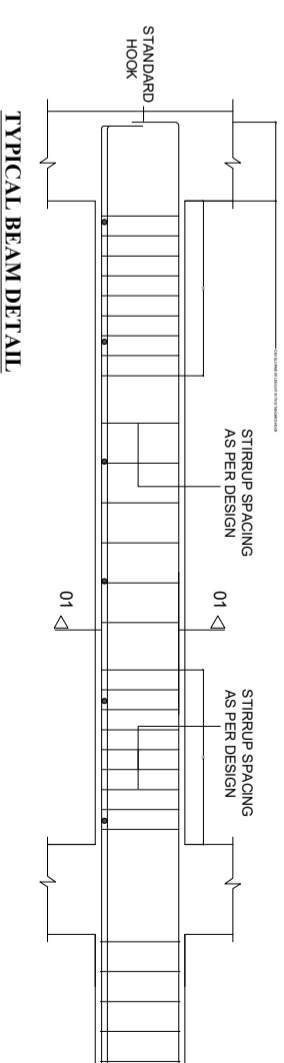
PROJECT:	DATE	SCALE	DRG. NO.
PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023		S-01
TITLE:		GENERAL NOTES	

## 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
3/8"	18	7.5
1/2"	24	9.5
3/4"	30	14.5
1"	48	19

SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)

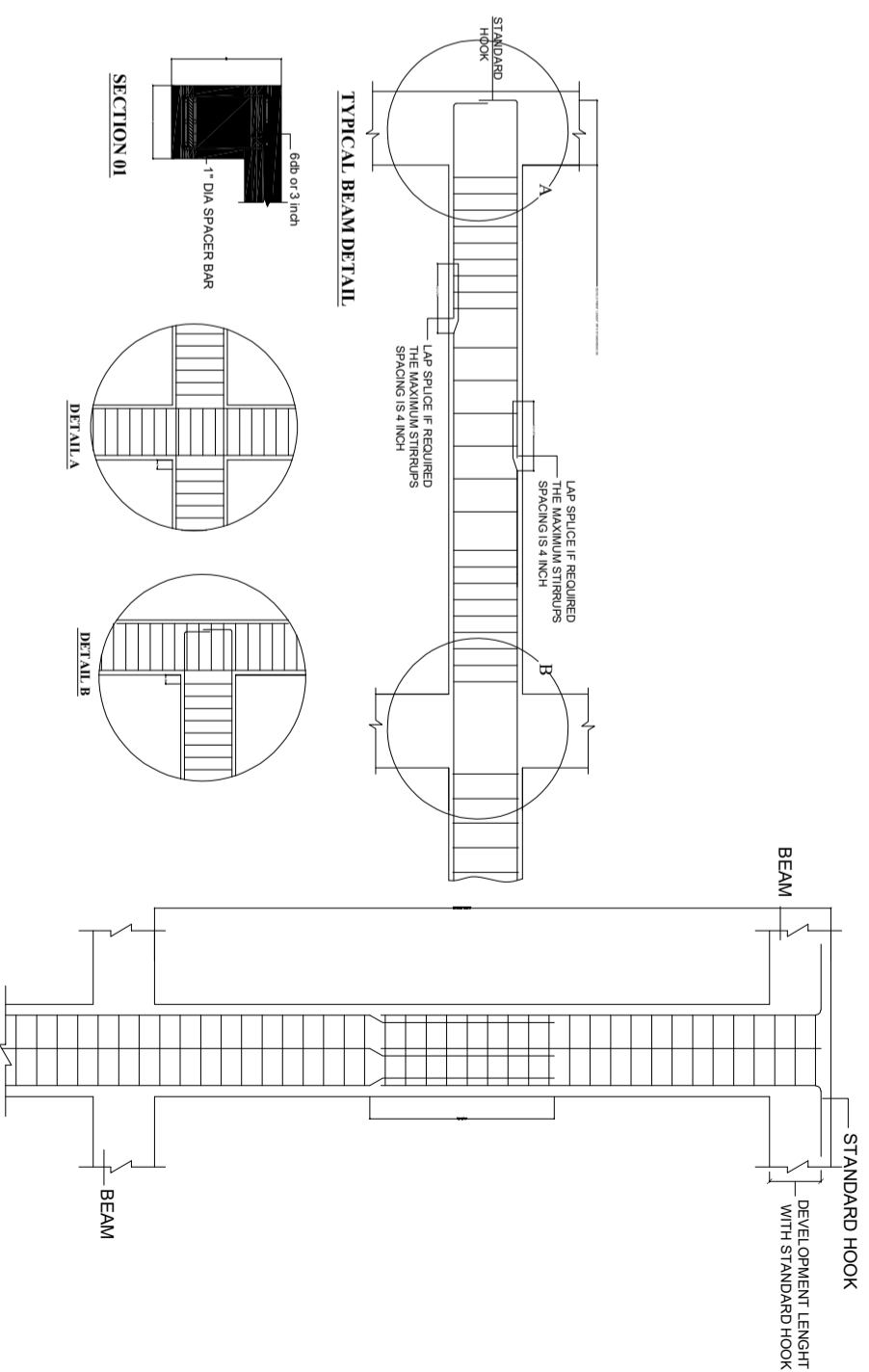
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES)	
	$f_c' = 3,000$ psi	$f_y = 40,000$ psi
3/8"	15	-
1/2"	20	9
3/4"	30	15
1"	48	18

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)

BAR DIA	DEVELOPMENT LENGTH (INCHES)	
	$f_c' = 3,000$ psi	$f_y = 60,000$ psi
1/2"	22	11"
5/8"	30	14"
3/4"	34	17"
1"	55	22"

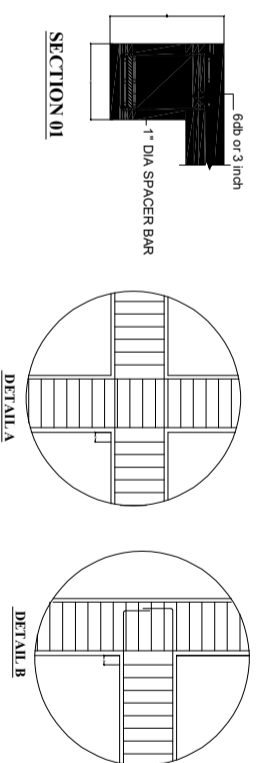
SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)

BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES)	
	$f_c' = 3,000$ psi	$f_y = 60,000$ psi
1/2"	25	35
5/8"	-	44
3/4"	-	55
1"	-	70



TYPICAL COLUMN DETAIL

TYPICAL BEAM DETAIL



SECTION 01

CLIENT:



CONSULTANTS:



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SCHOOL NAME

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 TEHSIL & DISTRICT  
 ATTOCK

Date of Revision

Prepared By

FARID KHAN  
 KHAN HADDER  
 STRUCTURE ENGINEER

PROJECT:

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

Designed By

Engr. HUMZA AHMAD

Checked By

Approved By

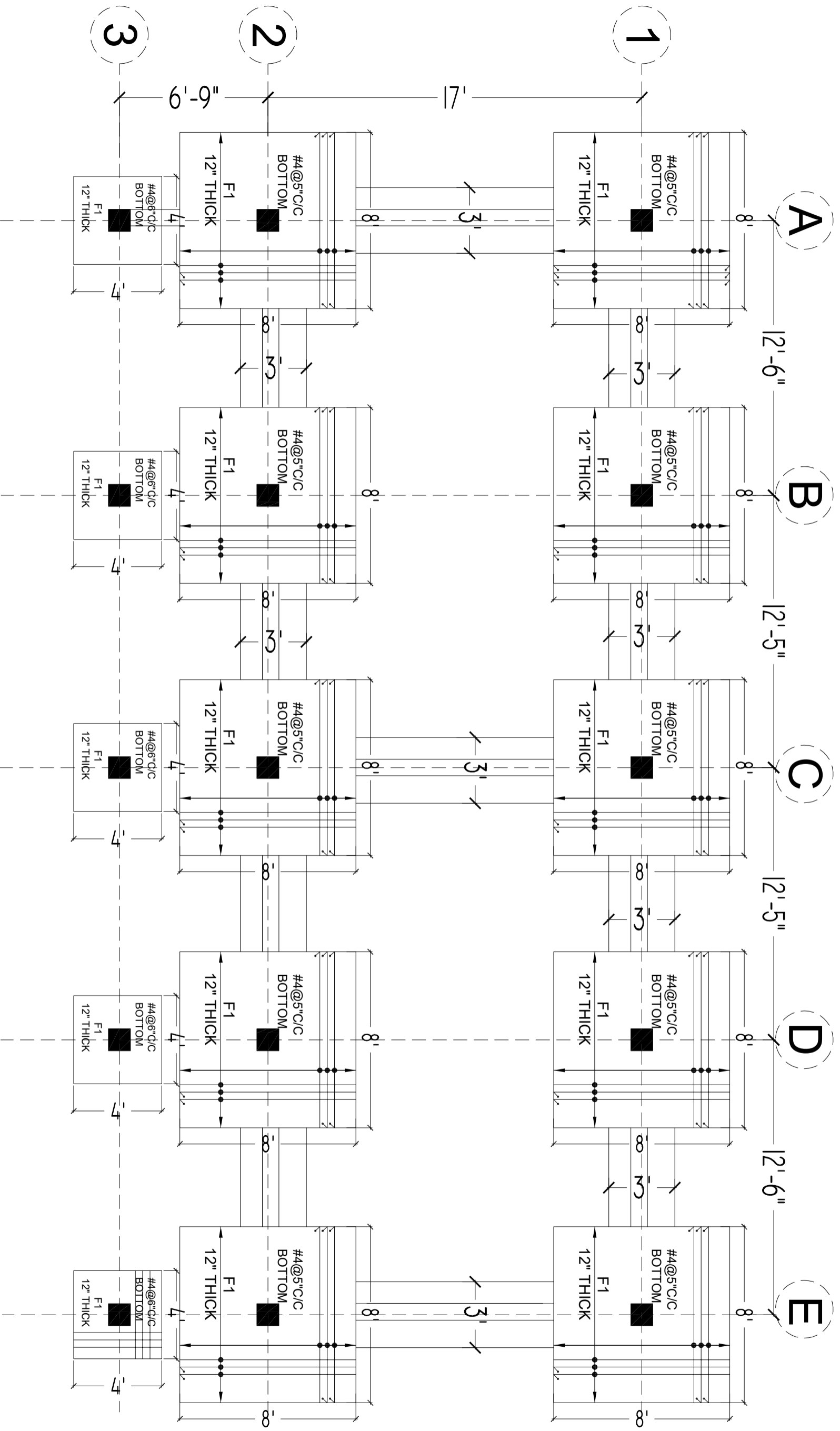
TITLE:  
 GENERAL NOTES

DATE  
 SEP 2023

SCALE

DRG.NO.

S-02



# FOUNDATION PLAN

CLIENT:



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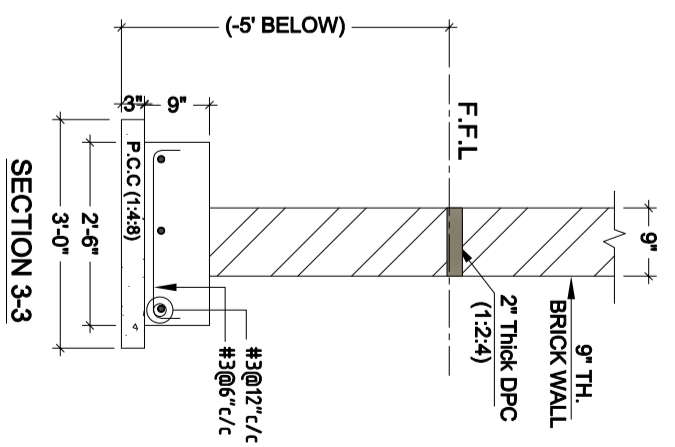
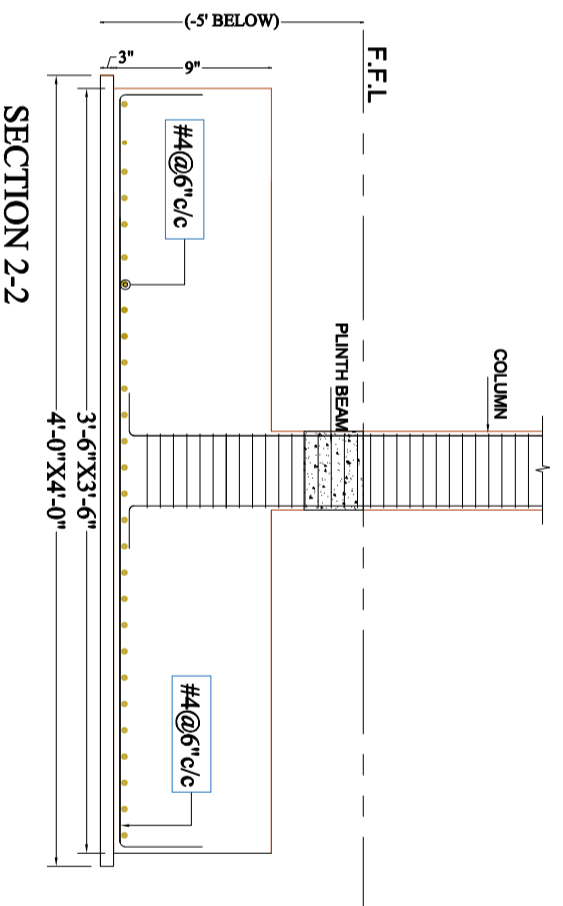
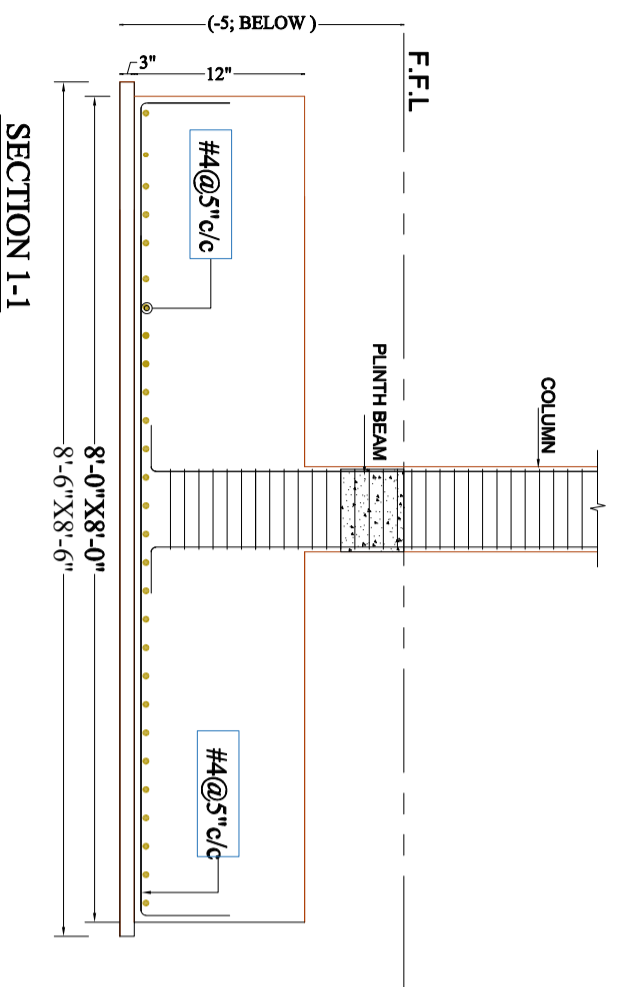
CONSULTANTS:

SCHOOL NAME

GGES HASSAN ABDAL  
 TEHSIL & DISTRICT  
 ATTOCK

Date of Revision	Prepared By	STRUCTURE ENGINEER:	PROJECT:
	Designed By	Eng. HUMZA AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		
	Approved By		
			TITLE: FOUNDATION PLAN
			DATE: SEP 2023
			SCALE
			DRG.NO. S-03





CLIENT:



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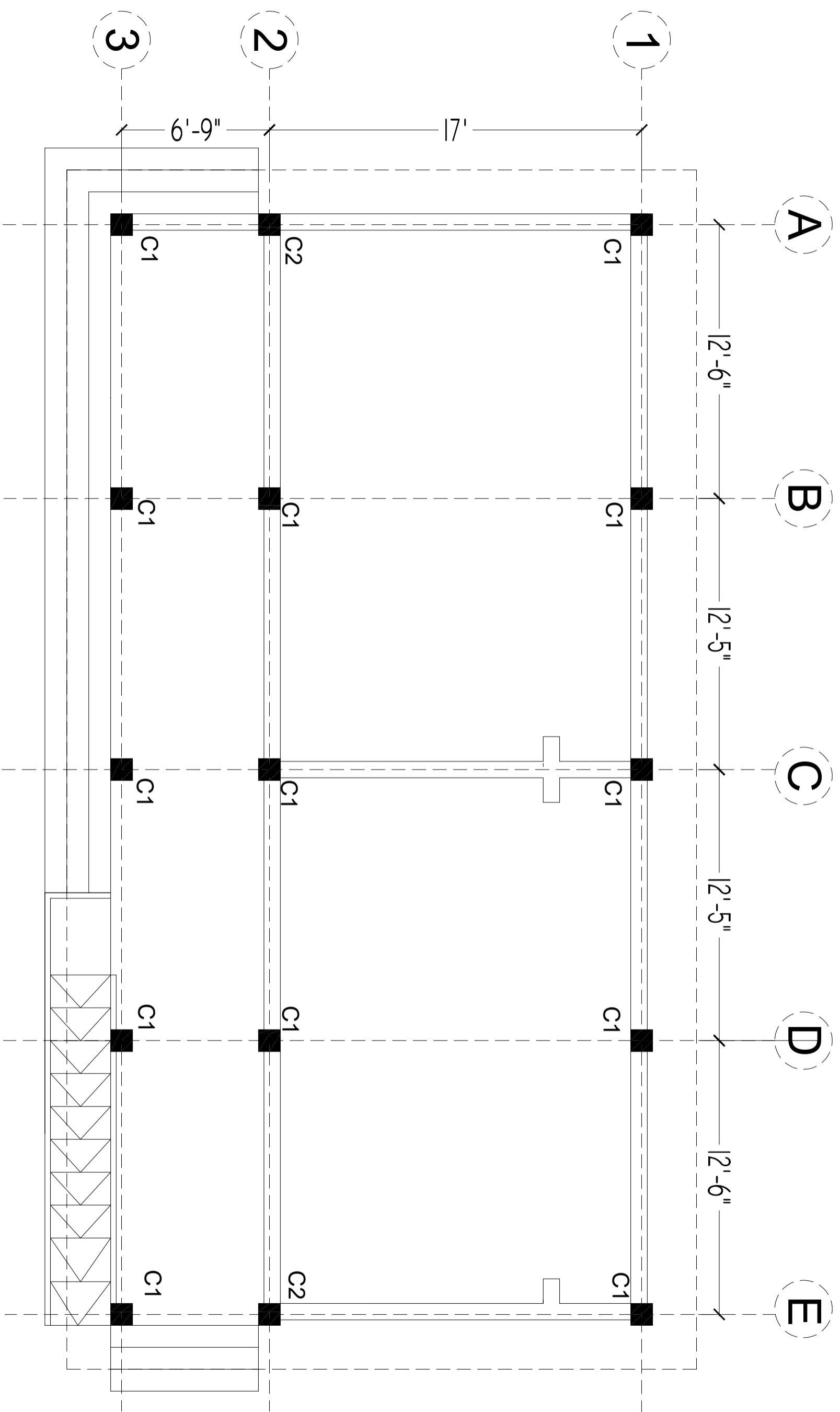
**SCHOOL NAME**  
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Date of Revision	Prepared By	STRUCTURE ENGINEER:
	ENG. KIYAN HANIDER	Engr. HUMZA AHMAD
	Designed By	
	Checked By	
	Approved By	

**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:  
  
 The UN Refugee Agency

CONSULTANTS:  
  
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	Designed By	Engr. HUMZA AHMAD
	Checked By	
	Approved By	

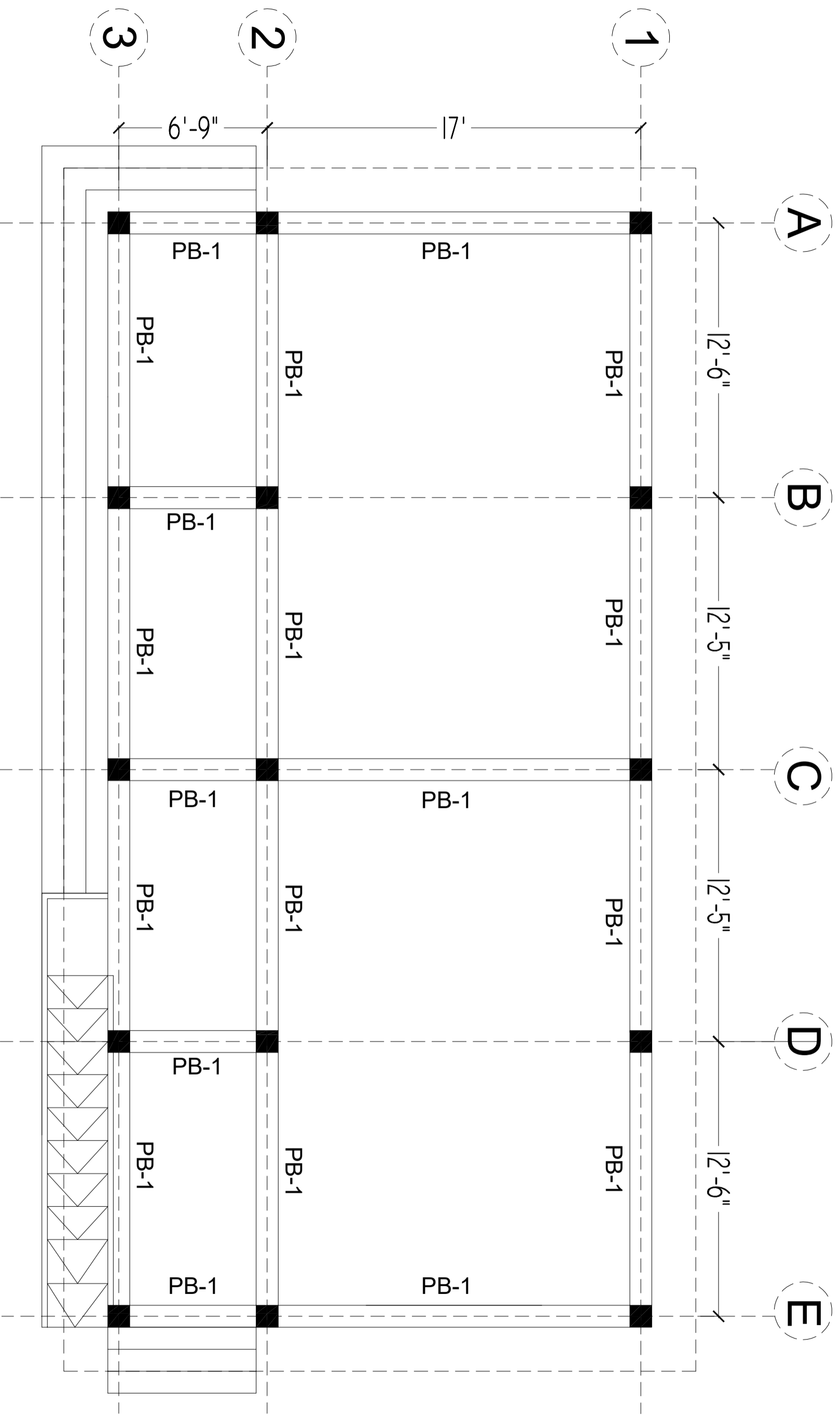
PROJECT:  
 PREPARATION OF DESIGN, DRAWINGS & BOQS  
 FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:  
 GROUND FLOOR COLUMN LAYOUT PLAN

DATE: SEP 2023

SCALE

DRG.NO. S-05



**PLINTH BEAM PLAN**

CLIENT:

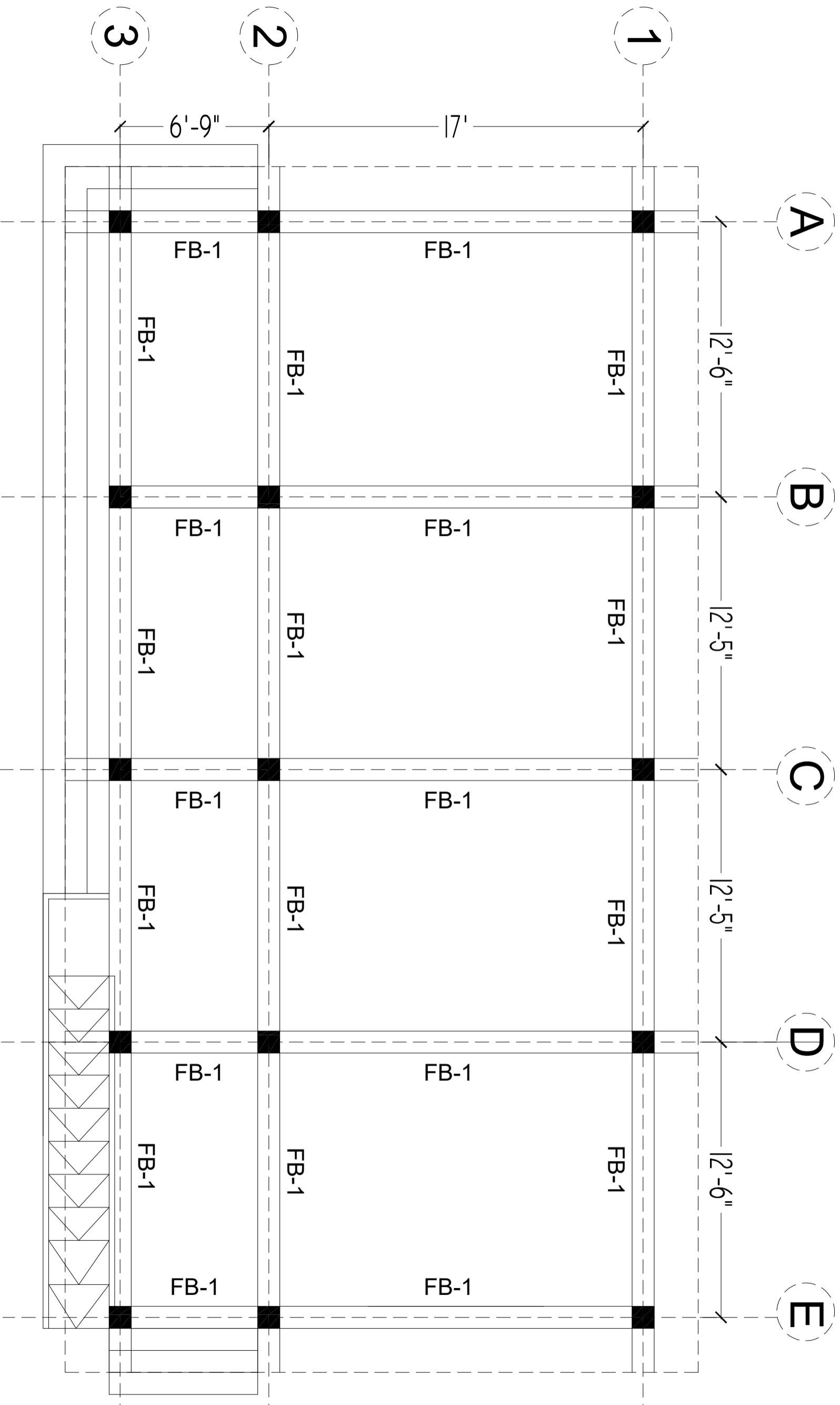


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**SCHOOL NAME**

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Date of Revision	Prepared By	STRUCTURE ENGINEER:	PROJECT:
	Engr. HUMZA AHMAD	FARID KHAN KHAN HAIDER	PREPARATION OF DESIGN DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		TITLE: PLINTH BEAM PLAN
	Approved By		DATE SEP 2023
			SCALE
			DRG. NO. S-06



# GROUND FLOOR BEAM PLAN

CLIENT:



The UN Refugee Agency

CONSULTANTS:



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

PROJECT:

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

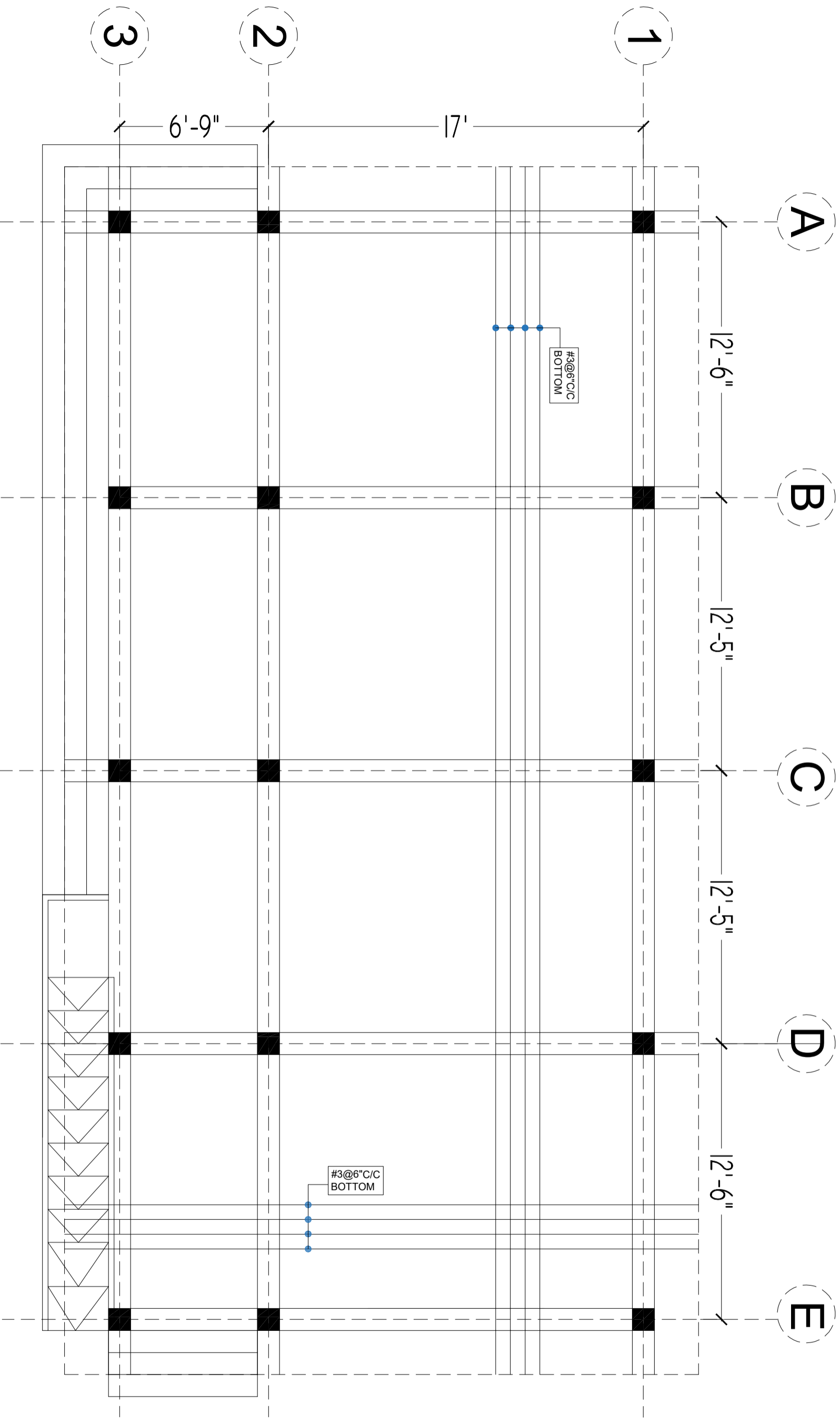
TITLE:

GROUND FLOOR BEAM PLAN

DATE: SEP 2023

SCALE

DRG.NO. S-07



# GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN

NOTE:  
SLAB THICKNESS = 6"

CLIENT:



CONSULTANTS:



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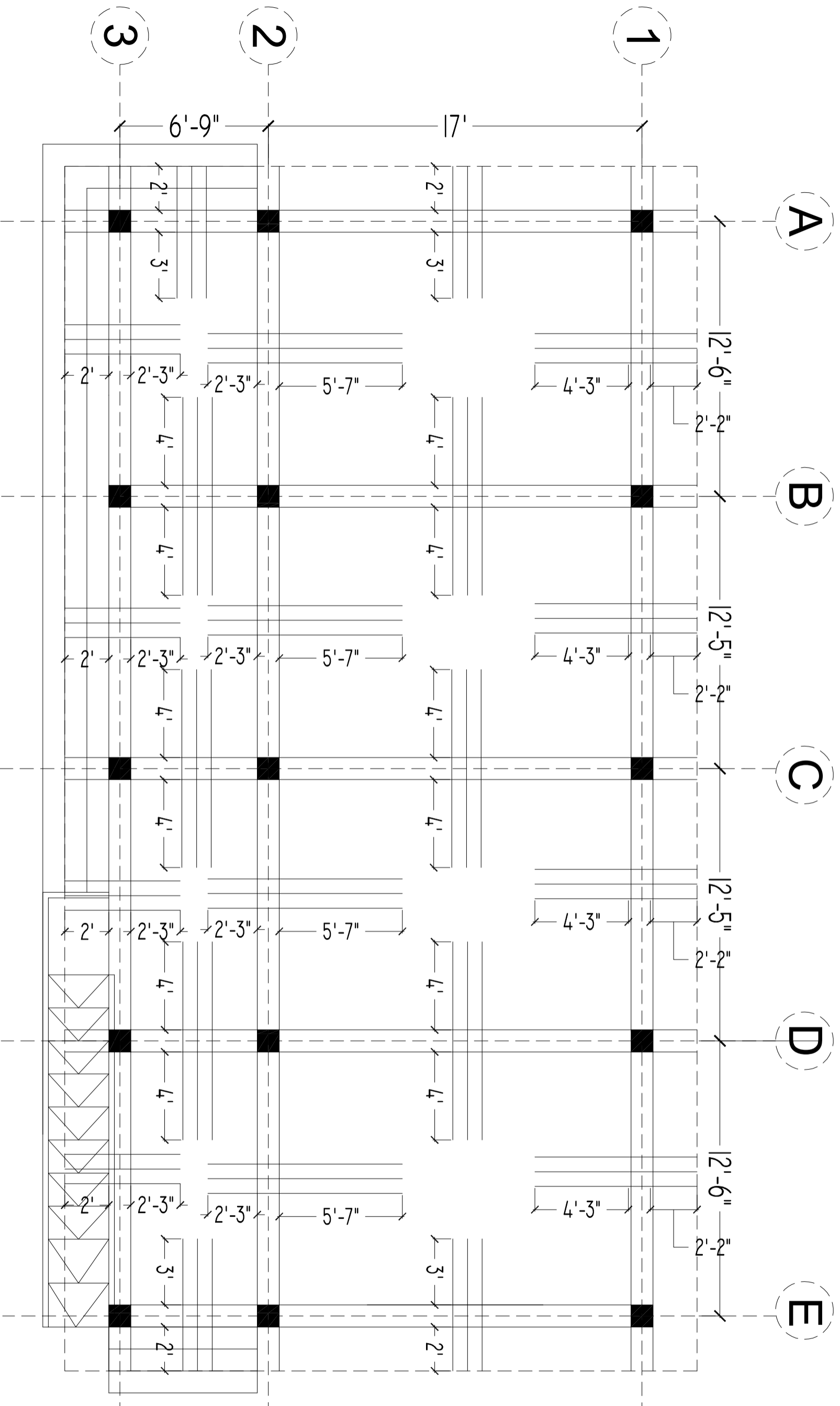
GGES HASSAN ABDAL  
TEHSIL & DISTRICT  
ATTOCK

Date of Revision	Prepared By	Checked By	Approved By

PROJECT:	DATE
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES	SEP 2023
TITLE:	SCALE
GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN	DRG. NO.
	S-08

FAHIM KHAN  
KIBAN HADDER  
STRUCTURE ENGINEER

Engr. HUMZA AHMAD



## GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

NOTE:  
SLAB THICKNESS = 6"  
TOP REINFORCEMENT = #3@6" C/C

CLIENT:



CONSULTANTS:



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Date of Revision

Prepared By

FARID KHAN  
KHAN HADDER  
STRUCTURE ENGINEER

PROJECT:

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

Designed By

Engr. HUMZA AHMAD

TITLE:

GROUND FLOOR SLAB TOP  
REINFORCEMENT PLAN

Checked By

Approved By

DATE

SEP 2023

SCALE

DRG.NO.

S-09

COLUMN TYPES	COLUMN C1	COLUMN C2
--------------	-----------	-----------

GROUND FLOOR		
	T1	# 3 @ 4" C/C
	T2	# 3 @ 4" C/C
	T3	# 3 @ 4" C/C
TIES		
	T1	# 3 @ 4" C/C
	T2	# 3 @ 4" C/C
	T3	# 3 @ 4" C/C

CLIENT:



CONSULTANTS:  
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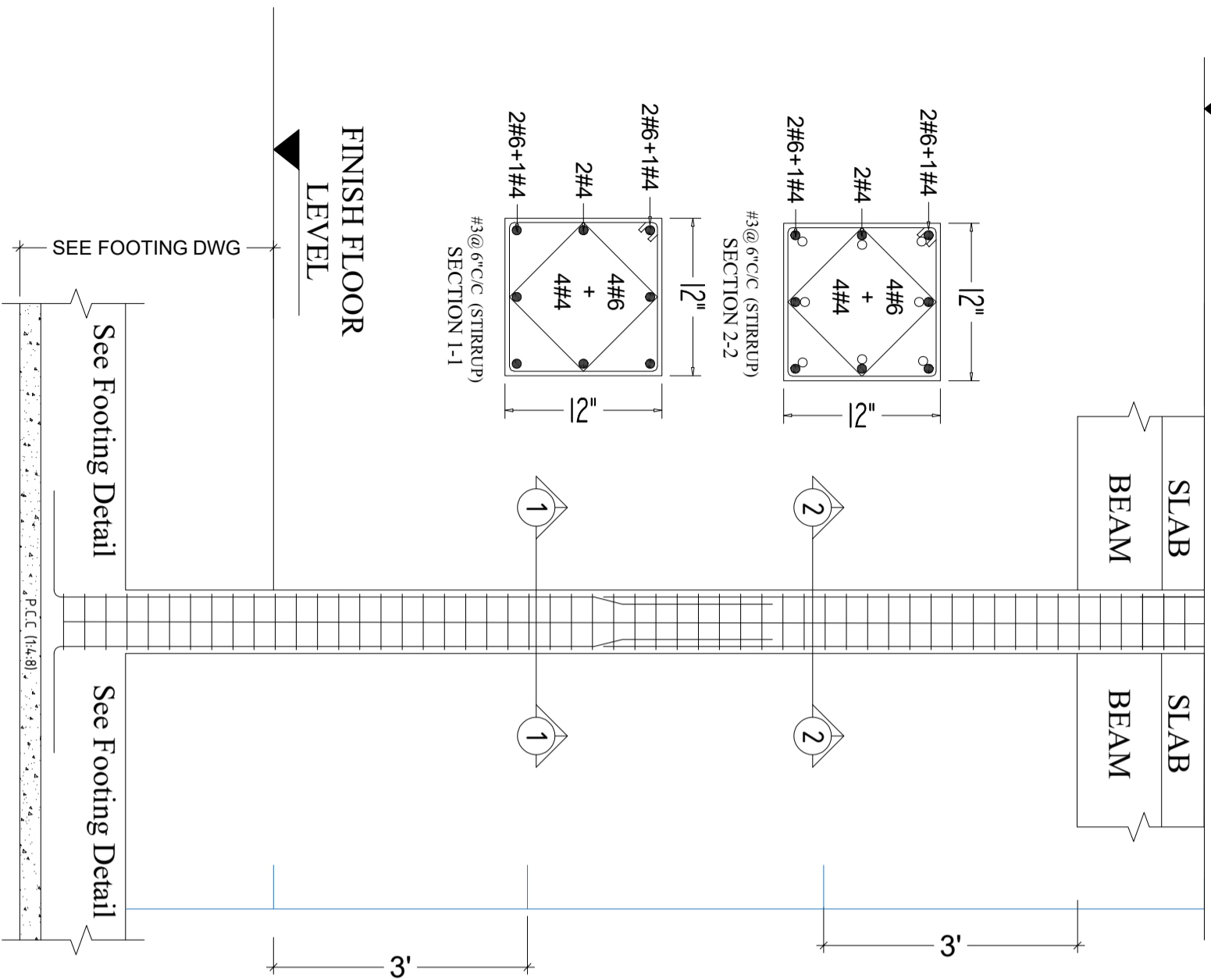
SCHOOL NAME

GGES HASSAN ABDAL  
 TEHSIL & DISTRICT  
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Date of Revision	Prepared By	FARID KHAN KIANS HAJIBER STRUCTURE ENGINEER
	Designed By	Engr. HUMZA AHMAD
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	Approved By	

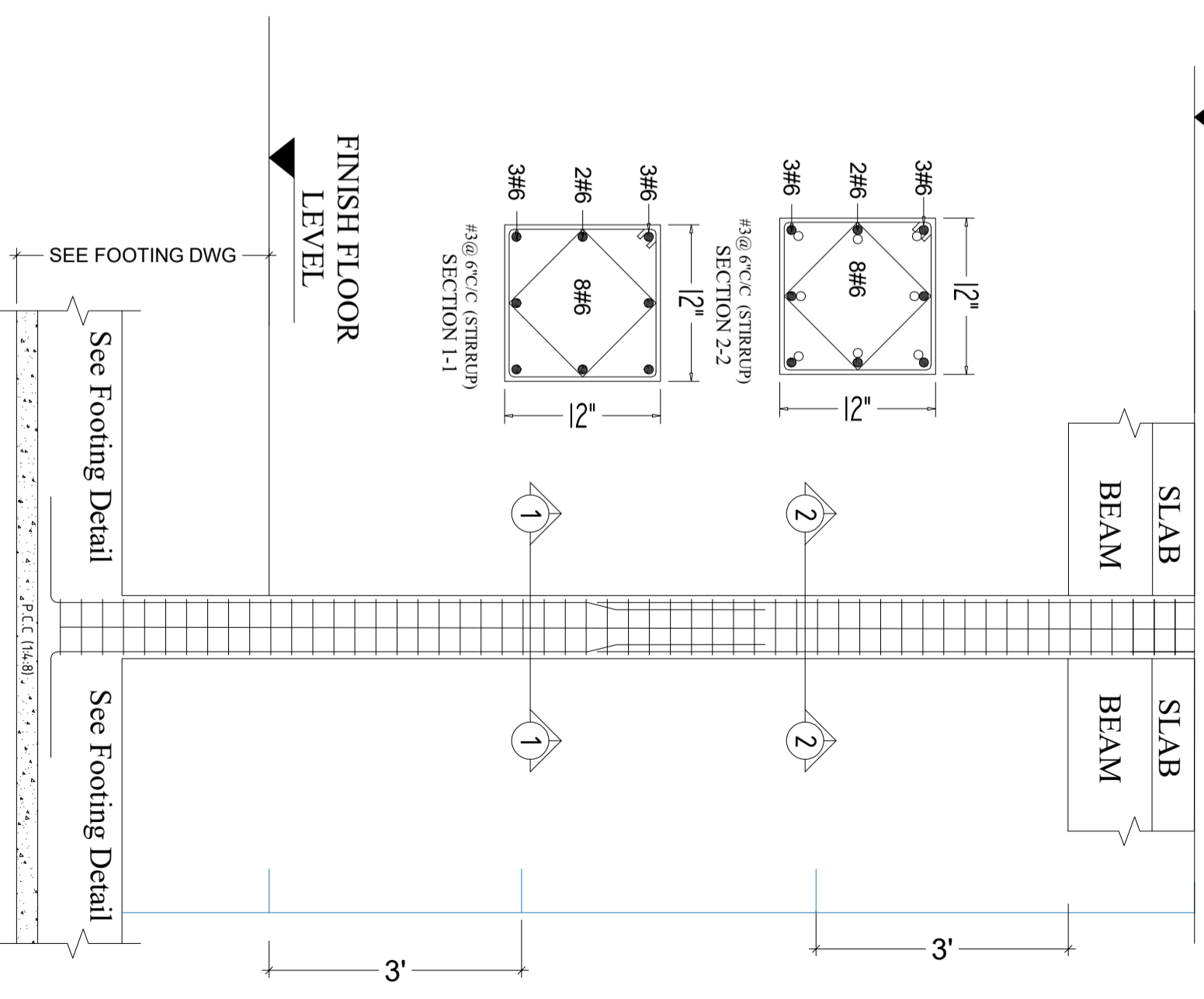
PROJECT:  
 PREPARATION OF DESIGN, DRAWINGS & BOQS  
 FOR CONSTRUCTION/REHABILITATION OF SITES  
 TITLE:  
 COLUMN DETAIL  
 DATE: SEP 2023 SCALE: DRG. NO.: S-10

GROUND FLOOR  
SLAB LEVEL



COLUMN LONG SECTION C1

GROUND FLOOR  
SLAB LEVEL



COLUMN LONG SECTION C2

CLIENT:



UNHCR  
The UN Refugee Agency

CONSULTANTS:



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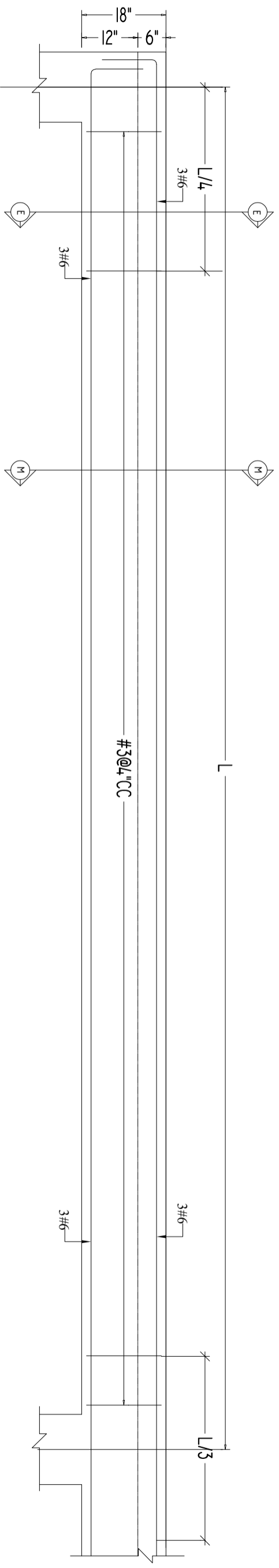
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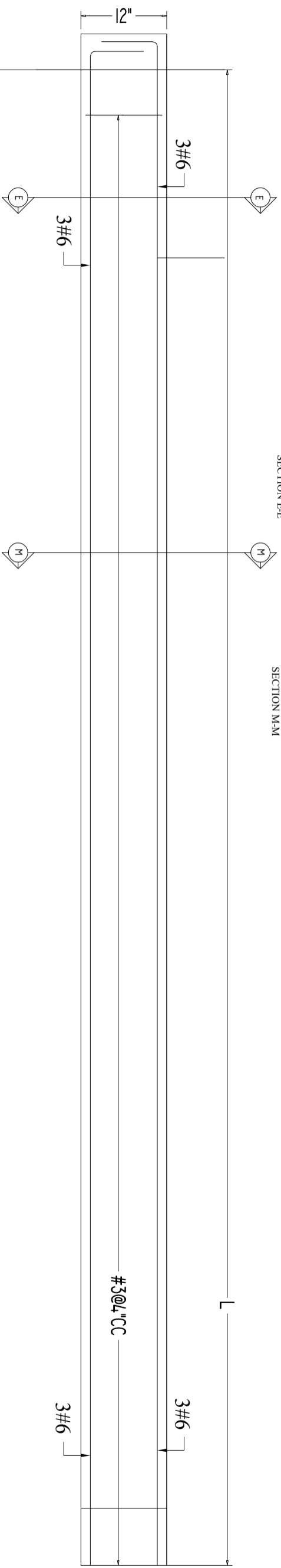
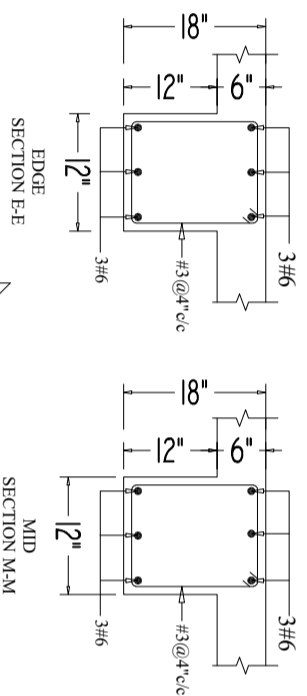
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TEHSIL & DISTRICT  
ATTOCK

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

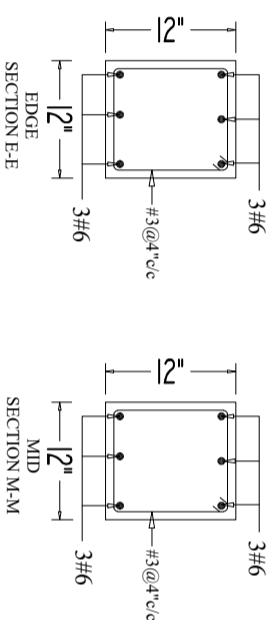




TYPICAL ELEVATION OF FB-1



TYPICAL ELEVATION OF PB-1



CLIENT:



CONSULTANTS:



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Date of Revision	Prepared By	STRUCTURE ENGINEER :	PROJECT:
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	Checked By		TITLE: BEAM DETAIL
	Approved By		DATE: SEP 2023
			SCALE
			DRG. NO. S-12

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

	<b>ELECTRICAL DRAWINGS</b>	
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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Date of Revision

Prepared By

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 KHAN HAIDER  
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PROJECT:

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

Designed By  
 Engr. HAMMAD AHMAD

TITLE:  
 LIST OF DRAWINGS

Checked By

Approved By

DATE

SCALE

DRG.NO.

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 10MM<sup>2</sup>sq 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 CARRYOUT 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 SHELL 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 SMALL TONCOUS DRAWING OF PVC INSULATED CABLES SHALL BE DETERMINED AS PIN BS 4607. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MAXIMUM NUMBER OF CABLES

NUMBER OF CABLE IN (CONDUIT)	SIZE OF CABLE		
NEW STANDARD SIZE MM <sup>2</sup> sq	25 MM (1")	20 MM (3/4")	15 MM (3/8")
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 OTHER WISE 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



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TEHSIL & DISTRICT ATTOCK



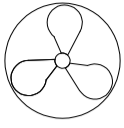
Date of Revision	Prepared By	FAHAD KHAN KIYAN HAUDEER ELECTRICAL ENGINEER:
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

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

<b>CLIENT:</b>  	<b>CONSULTANTS:</b>   <p><b>PLANNERS CONSULTANTS ENGINEERS (PCE)</b>            97-K Industrial Estate, Hayatabad Peshawar Pakistan            Ph: 0092-91-5816017, 5891661-4, Fax: 5891845            E-Mail: pce.pesh@yahoo.com</p>	<b>SCHOOL NAME</b>  GGES HASSAN ABDAL TEHSIL & DISTRICT ATTOCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Date of Revision</td> <td style="width: 25%;">Prepared By</td> <td style="width: 25%;">ELECTRICAL ENGINEER:</td> <td style="width: 25%;">FABD KHAN KHAVAN HAIDER</td> </tr> <tr> <td></td> <td>Designed By</td> <td></td> <td>Engr. HAMMAD AHMAD</td> </tr> <tr> <td></td> <td>Checked By</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Approved By</td> <td></td> <td></td> </tr> </table>	Date of Revision	Prepared By	ELECTRICAL ENGINEER:	FABD KHAN KHAVAN HAIDER		Designed By		Engr. HAMMAD AHMAD		Checked By				Approved By		
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	Designed By		Engr. HAMMAD AHMAD																
	Checked By																		
	Approved By																		
<b>PROJECT:</b> PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/ REHABILITATION OF SITES TITLE: APPROVED MANUFACTURE LIST		<b>DATE</b> SEP 2023	<b>SCALE</b> DRG.NO.																

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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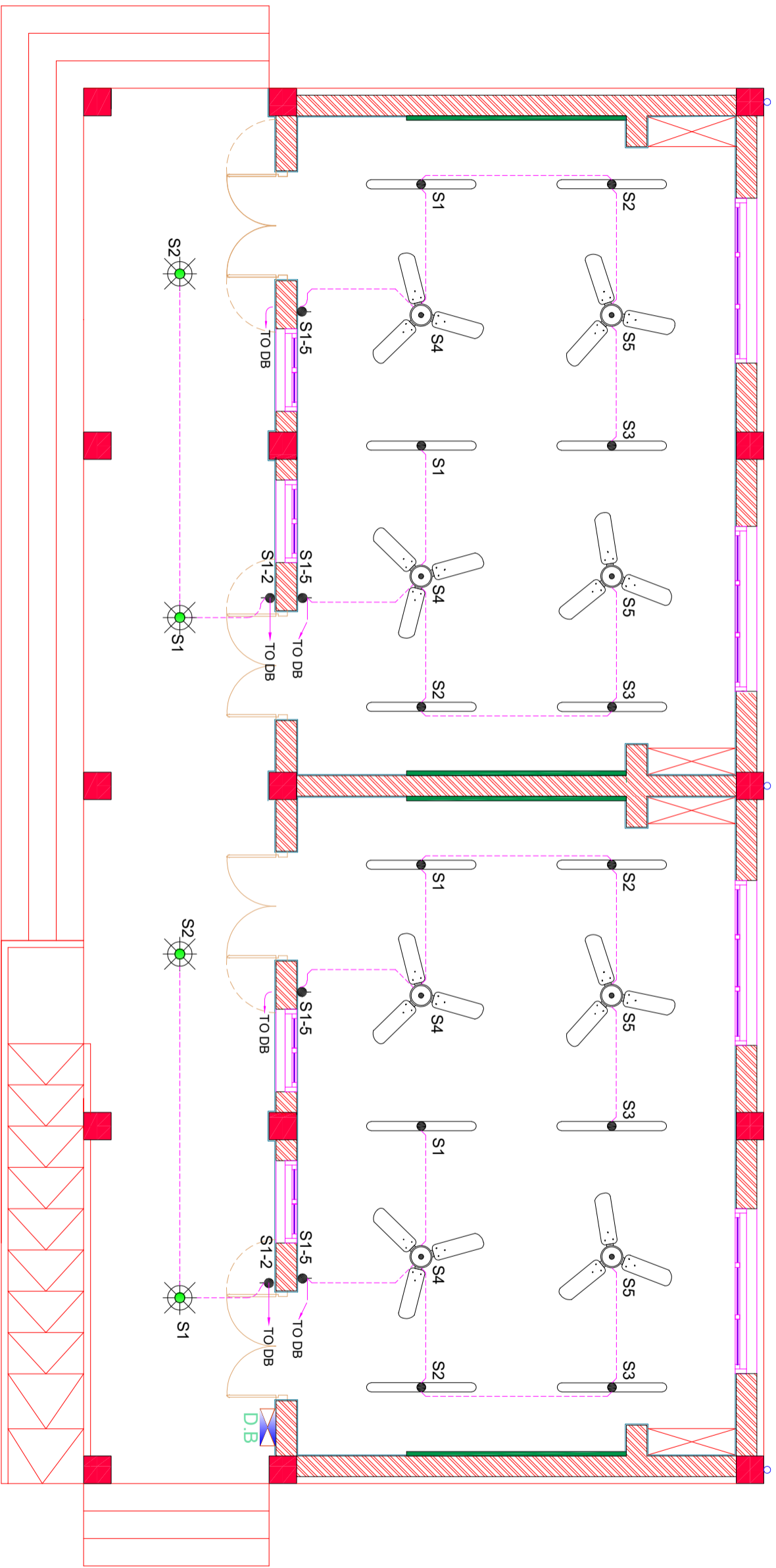
SCHOOL NAME

GGES HASSAN ABDAL TEHSIL &  
DISTRICT ATTOCK

Date of Revision	Prepared By	FAHD KHAN KIAN HAIDER ELECTRICAL ENGINEER	PROJECT:
	Designed By	Engr. HAMMAD AHMAD	PREPARATION OF DESIGN, DRAWINGS & BOOKS FOR CONSTRUCTION/REHABILITATION OF SITES
	Checked By		
	Approved By		
			DATE: <i>SEP 2023</i>
			SCALE
			DRG.NO. E-03

TITLE:

LEGEND



# GROUND FLOOR PLAN

CLIENT:



CONSULTANTS:



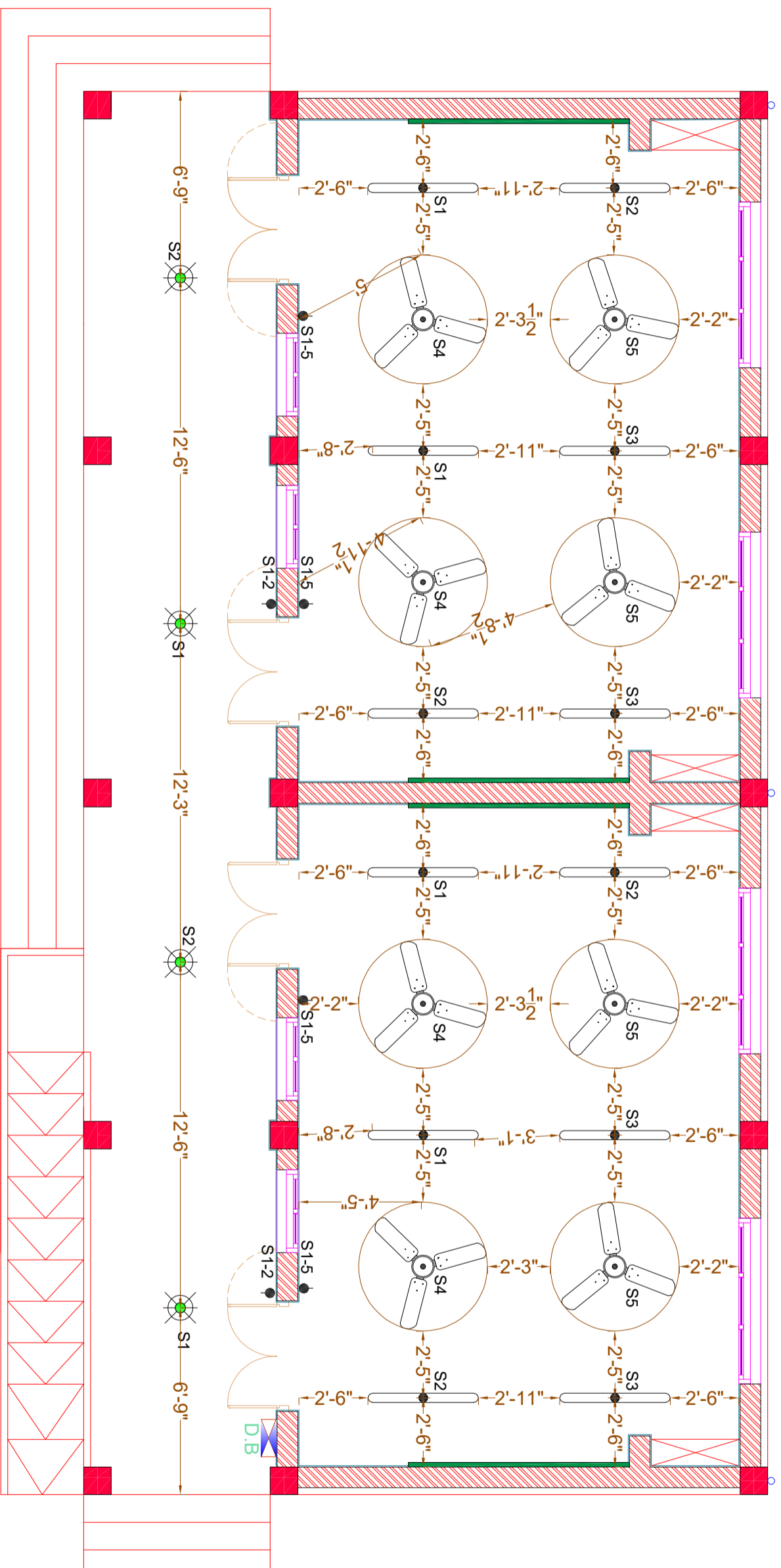
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Date of Revision	Prepared By	FAHAD KHAN KHAJAN HAIDER ELECTRICAL ENGINEER :
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:		
PREPARATION OF DESIGN, DRAWINGS & BOQS FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE: GROUND FLOOR PLAN		
DATE	SCALE	DRG.NO.
SEP 2023		E-04



## GROUND FLOOR DIMENSION PLAN

CLIENT:



**PLANNERS CONSULTANTS ENGINEERS (PCE)**

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CONSULTANTS:

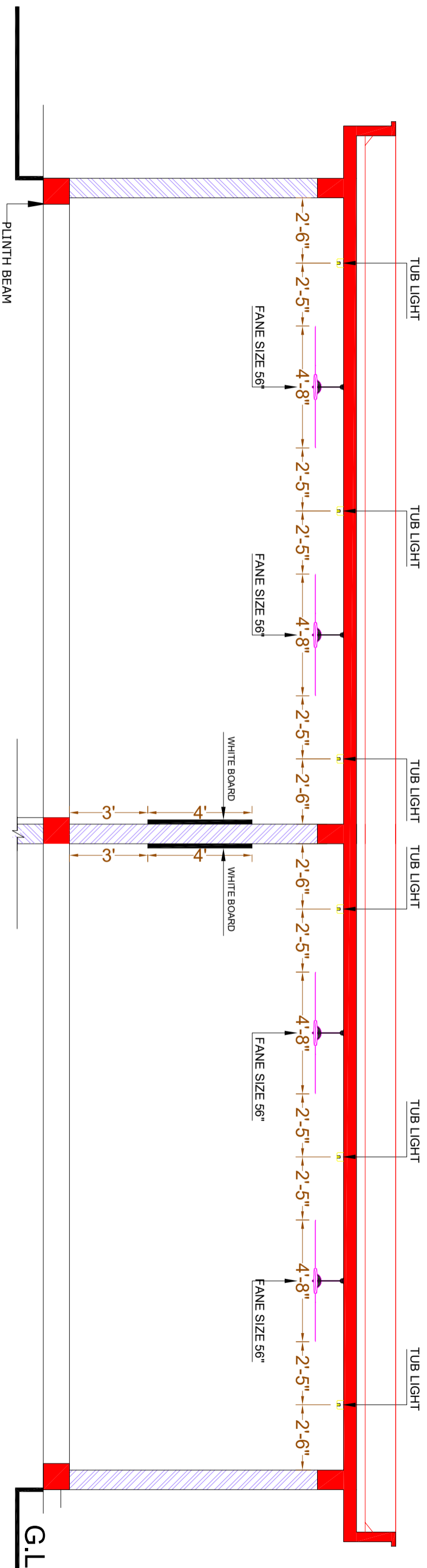
SCHOOL NAME

GGES HASSAN ABDAL TEHSIL  
 & DISTRICT ATTOCK

Date of Revision	Prepared By	Designed By	Checked By	Approved By
	FARID KHAN KHAJANHAIDER	Engr. HAMMAD AHMAD		

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





# SECTION

CLIENT:

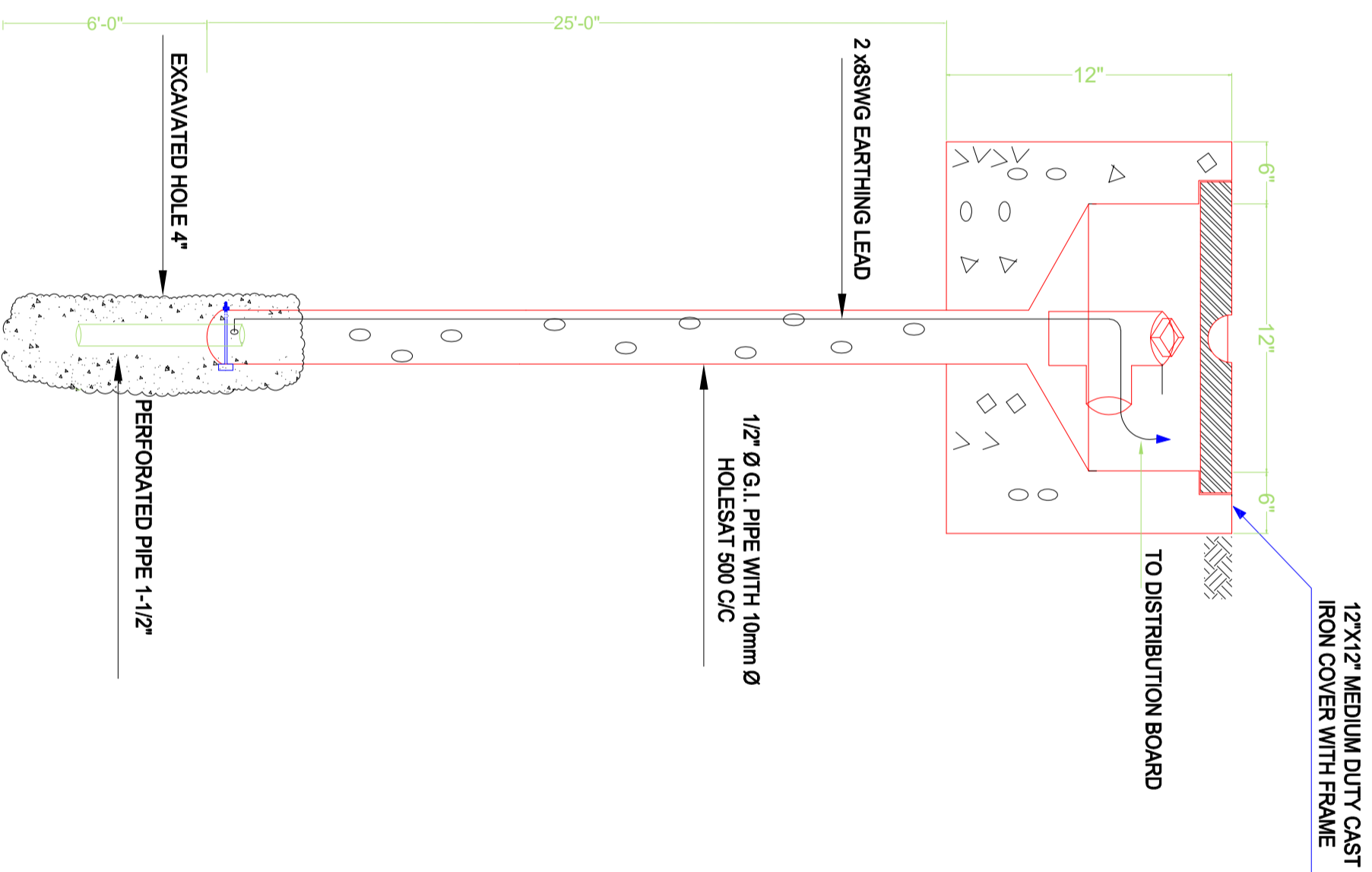


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Date of Revision	Prepared By	Checked By	Approved By
	FAHD KHAN KIYAN HADDER ELECTRICAL ENGINEER	Engr. HAMMAD AHMAD	

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



CLIENT:



CONSULTANTS:

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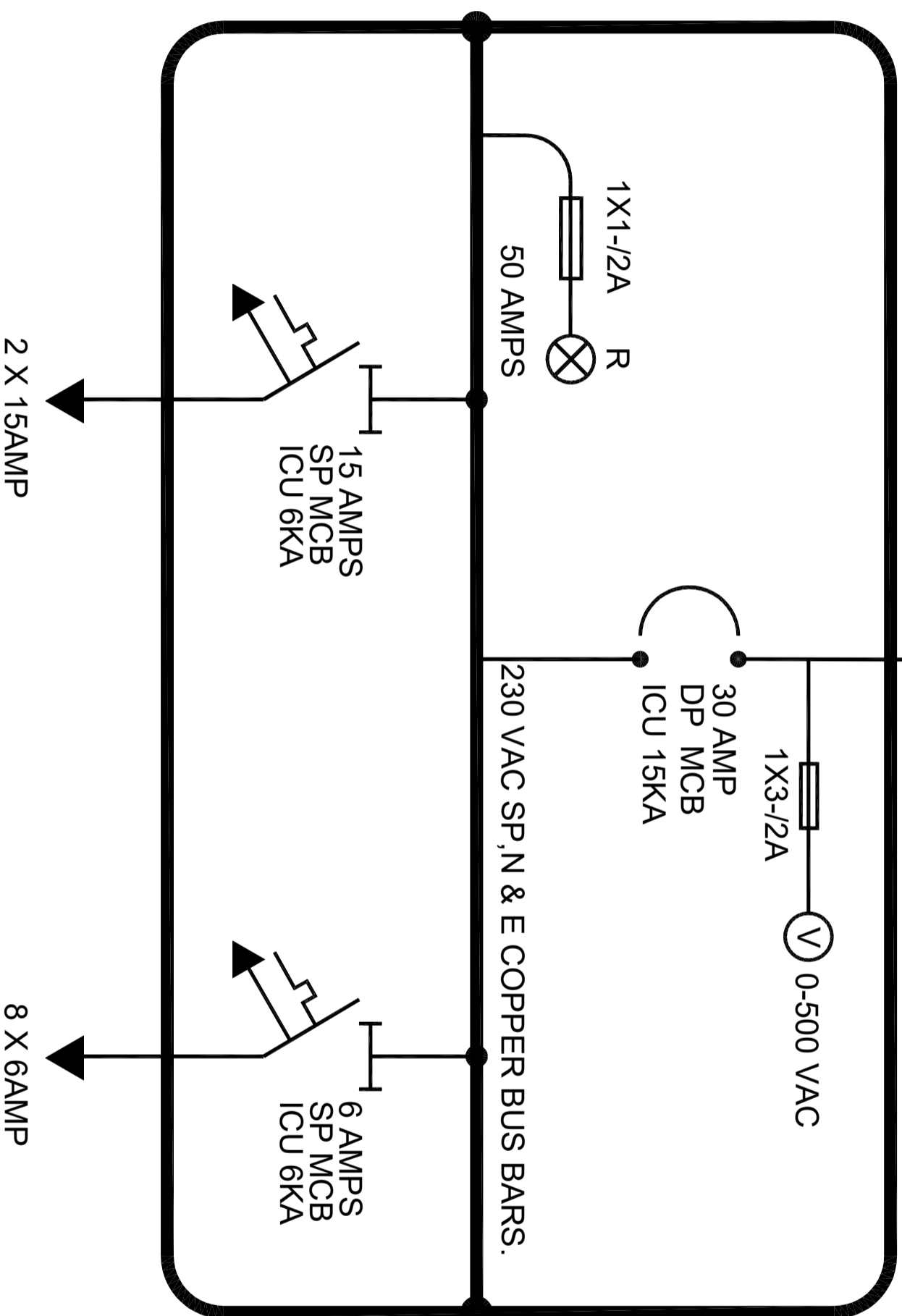
Date of Revision	Prepared By	FARID KHAN KHAN HAIDER ELECTRICAL ENGINEER :
	Designed By	Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

PROJECT:		
PREPARATION OF DESIGN DRAWINGS & BOOK FOR CONSTRUCTION/REHABILITATION OF SITES		
TITLE:		
EARTHING DETAIL PLAN		
DATE	SCALE	DRG.NO.
SEP 2023		E-07

## DISTRIBUTION BOARD

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

16 SWG SHEET STEEL POWDER  
PAINTED RECESSED IN WALL.



CLIENT:



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SCHOOL NAME

GGES HASSAN ABDAL TEHSIL  
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Date of Revision	Prepared By	Checked By	Approved By
	FAHAD KHAN KIBAN HANIDER ELECTRICAL ENGINEER	Engr. HAMMAD AHMAD	

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

## LOAD CALCULATION

LOAD (W)	768
PEAK DEMAND LOAD (W)	768
25% FUTURE LOAD PROVISION (W)	960
TOTAL LOAD (W)	1067
CABLE SIZE (MM sq)	1.5

CLIENT:



CONSULTANTS:

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	Designed By	
	Checked By	
	Approved By	

PROJECT:

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

TITLE:

LOAD CALCULATION

DATE

SEP 2023

SCALE

DRG.NO.

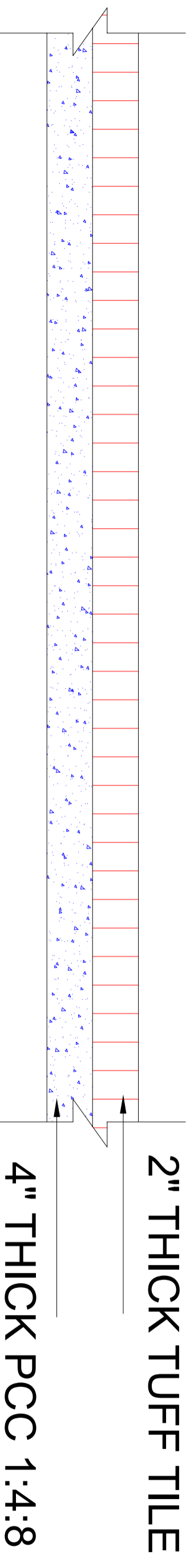
E-09

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



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# TUFF TILE FLOORING

## 1400.SFT

CLIENT:



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

REHAB WORKS OF  
 GGES HASSAN ABDAL  
 TEHSIL & DISTRICT  
 ATTOCK

Date of Revision

Prepared By

ARCHITECT  
 FARID KHAN  
 KHAN HANDEK

PROJECT:

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

Designed By

MARWAT KHAN ORAKZAI  
 (B.Archd.C.E.T.Kanabi)  
 (M.Archd.UET Lahore)

TITLE:

TUFF TILE FLOORING

Checked By

Approved By

DATE

SEP 2023

Scale

DRG.NO.

A-01