PROPOSED DESIGN OF
GGES JASSIAN
DISTRICT ATTOCK

UNHCR
The UN Refugee Agency

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

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SCHOOL NAME

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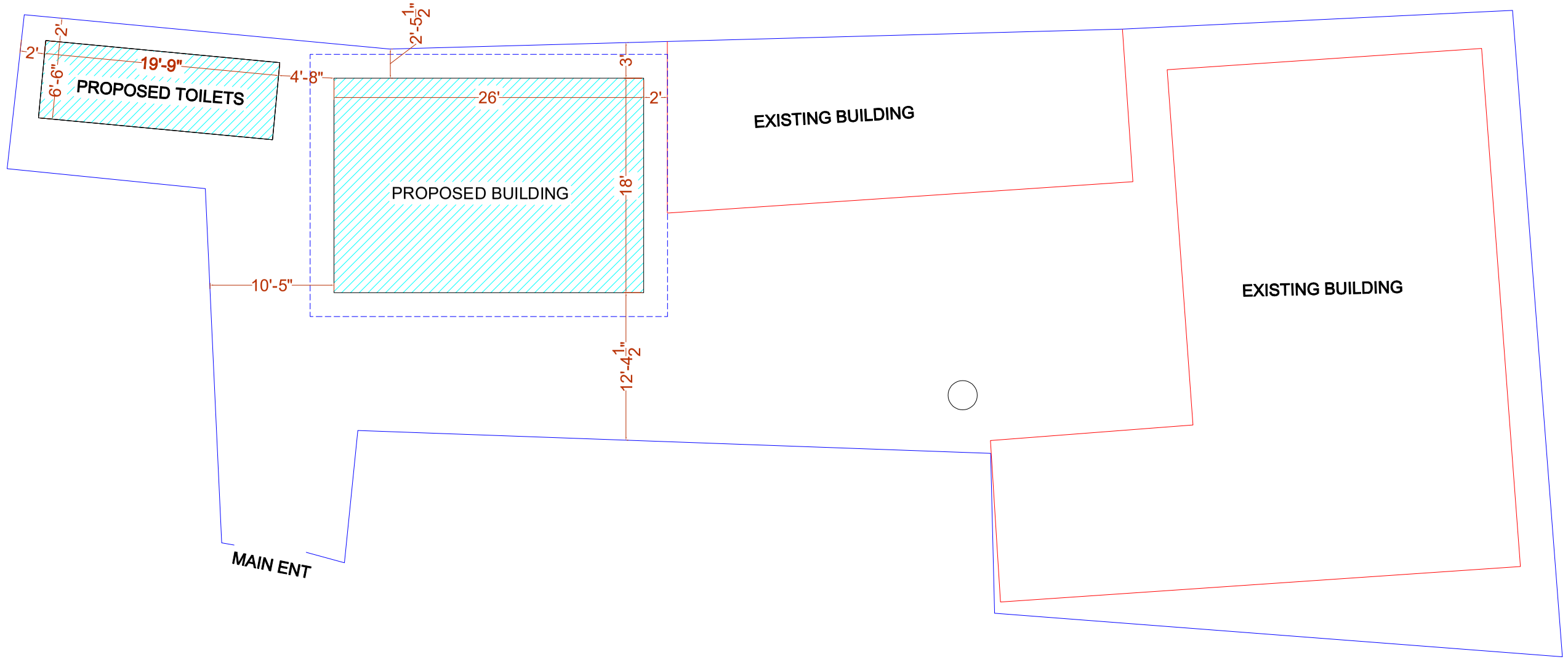
Date of Revision	Prepared By	FARID KHAN KHAN HAIDER
	Designed By	ARCHITECT MARWAT KHAN ORAKZAI (B.Arch.D.C.E.T Karachi) (M.Arch.UET. Lahore)
	Checked By	
	Approved By	

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

TITLE:
LIST OF DRAWINGS

DATE	SCALE	DRG.NO.
SEP 2023		A-00



SITE PLAN

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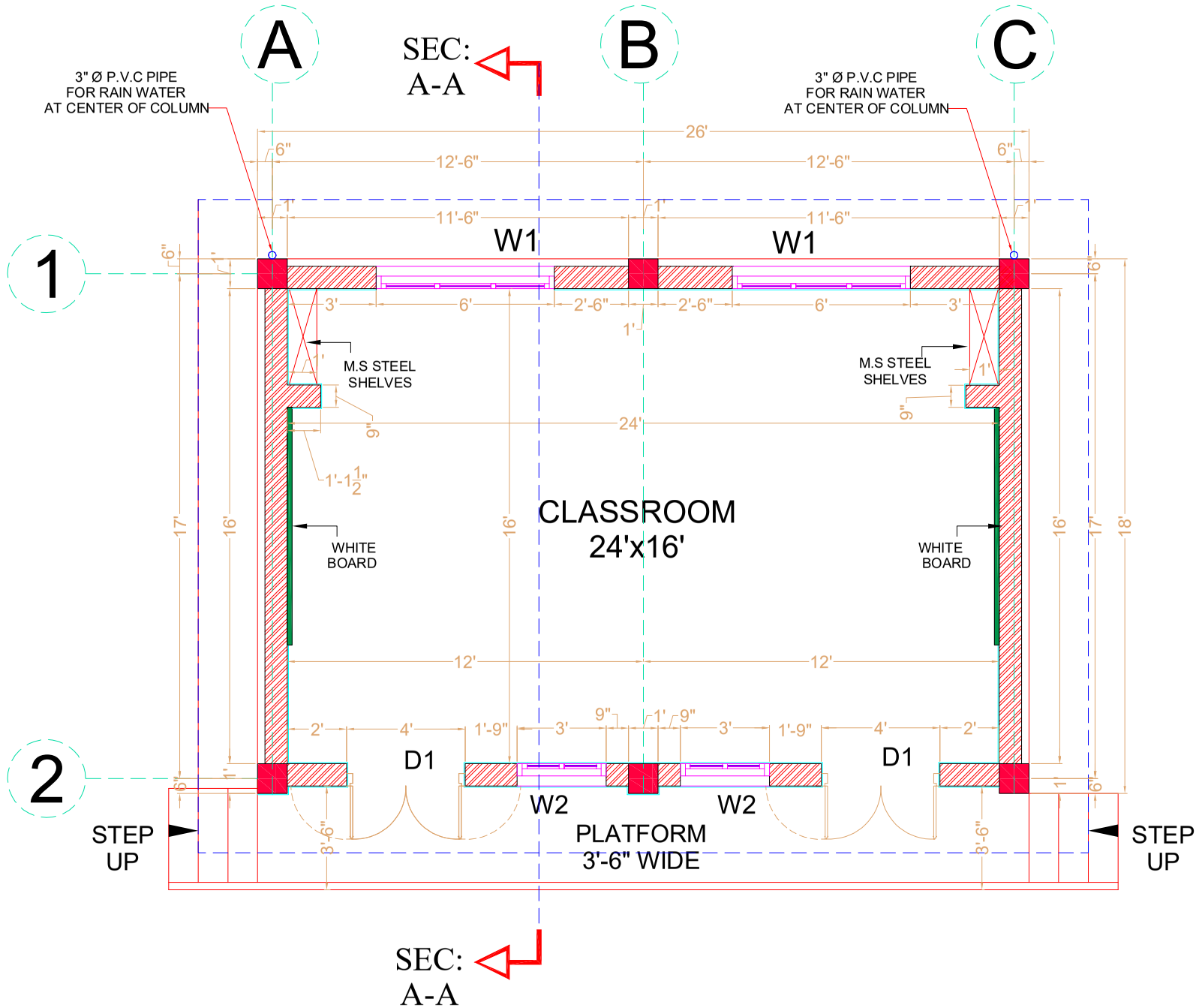
TITLE:
SITE PLAN

DATE	SCALE	DRG.NO.
SEP 2023		A-01



GROUND FLOOR PLAN

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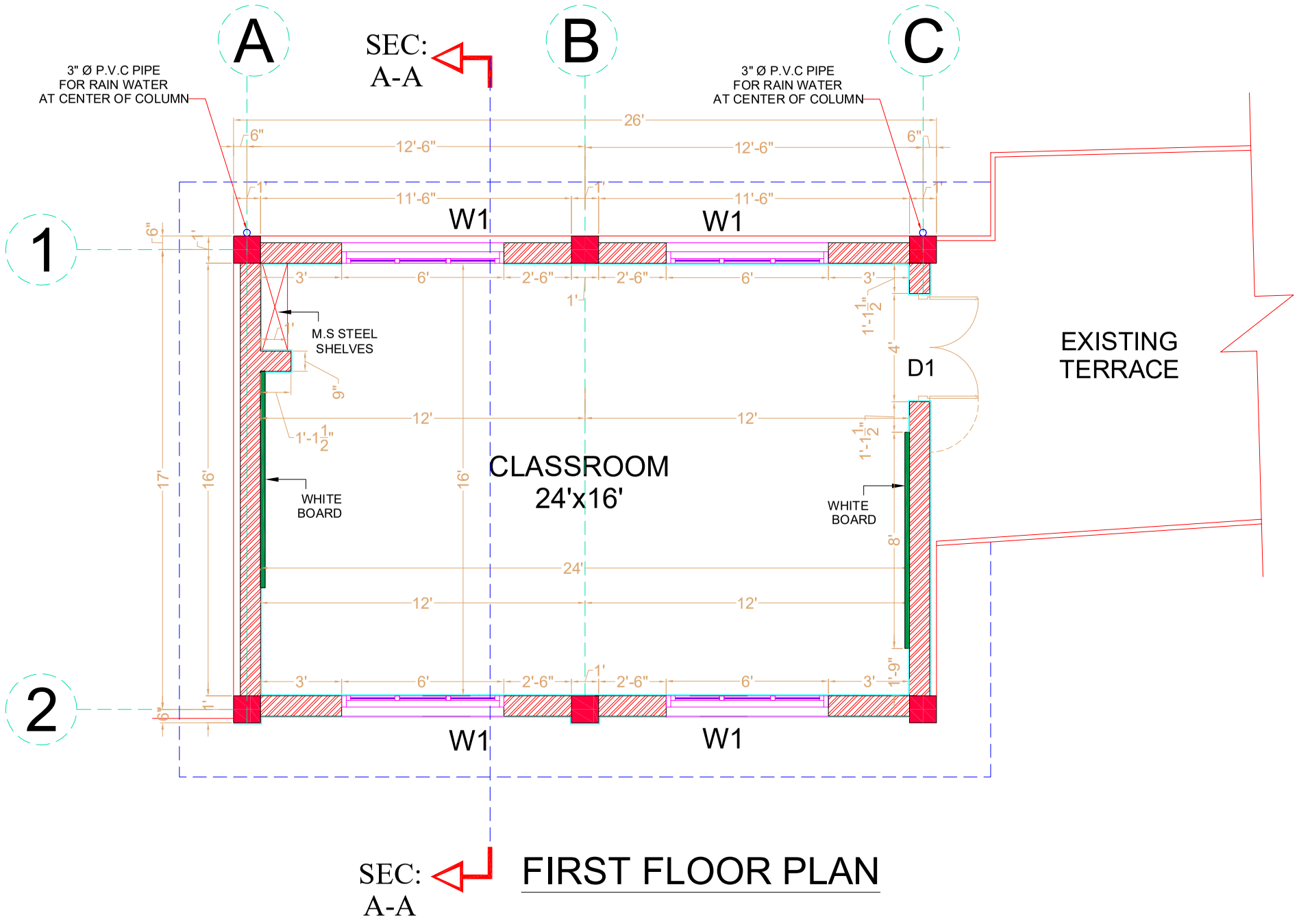
TITLE:
GROUND FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		A-02



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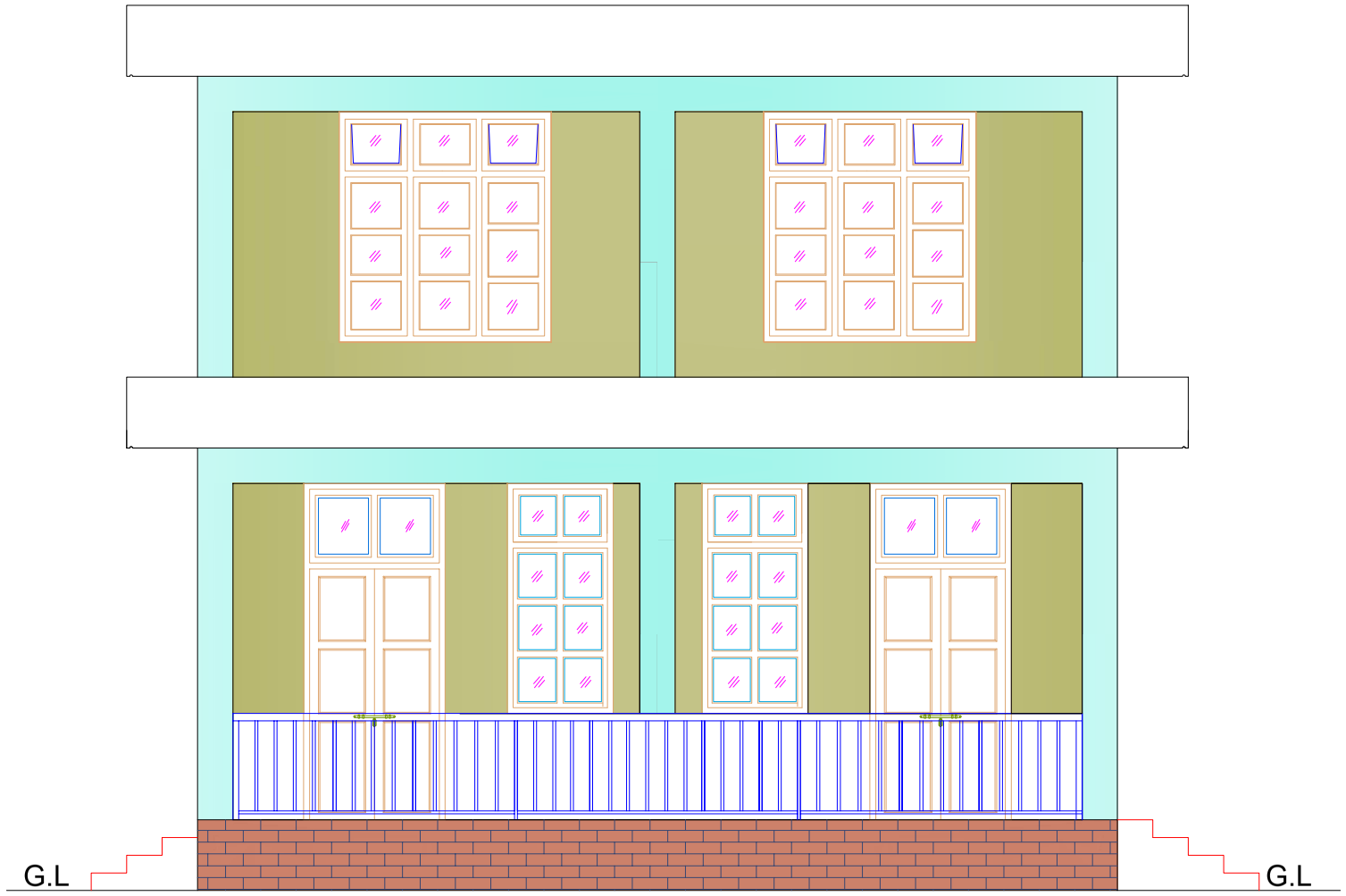
TITLE:
FIRST FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		A-03



FRONT ELEVATION

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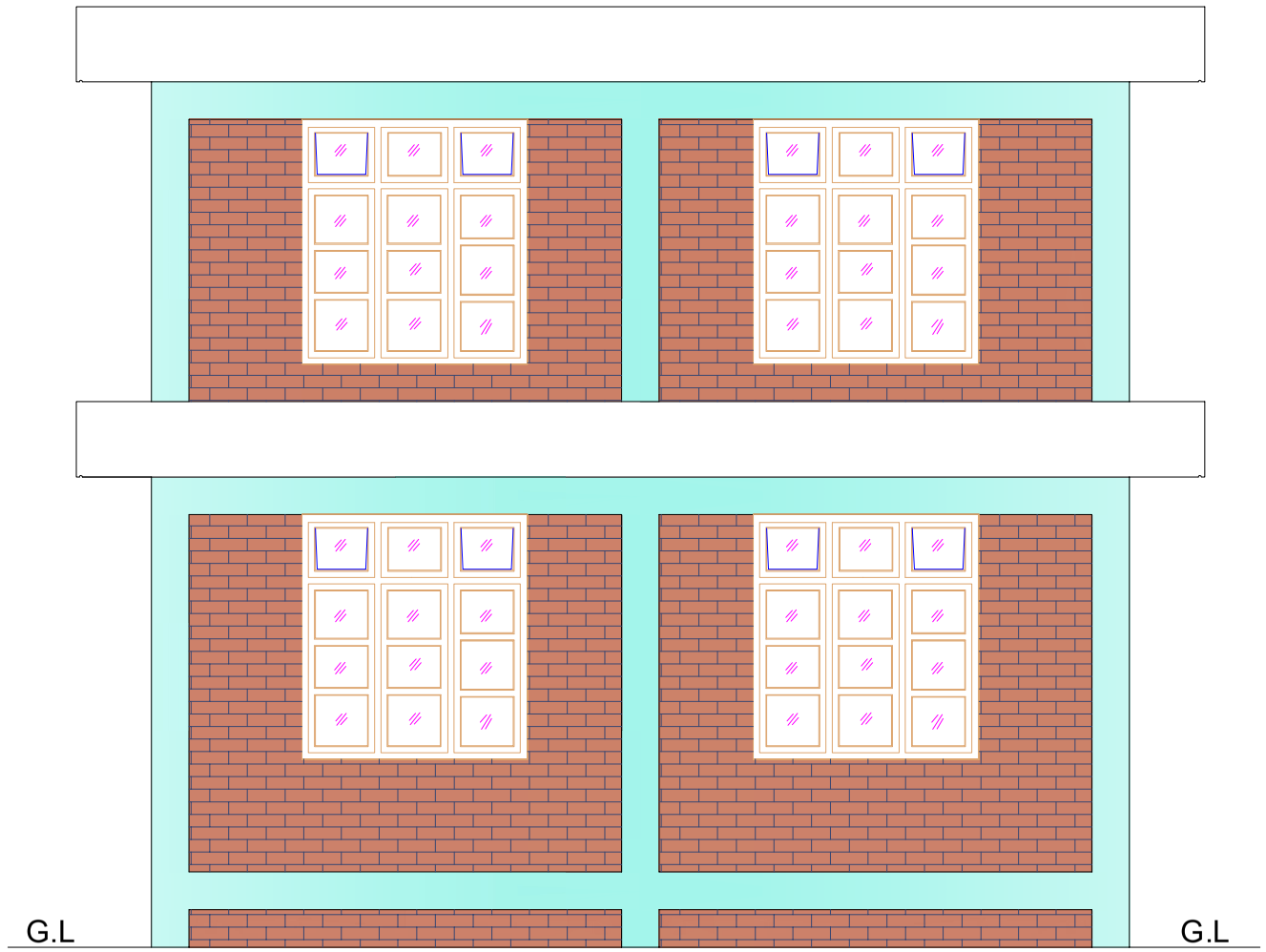
TITLE:
FRONT ELEVATION

DATE	SCALE	DRG.NO.
SEP 2023		A-04



REAR ELEVATION

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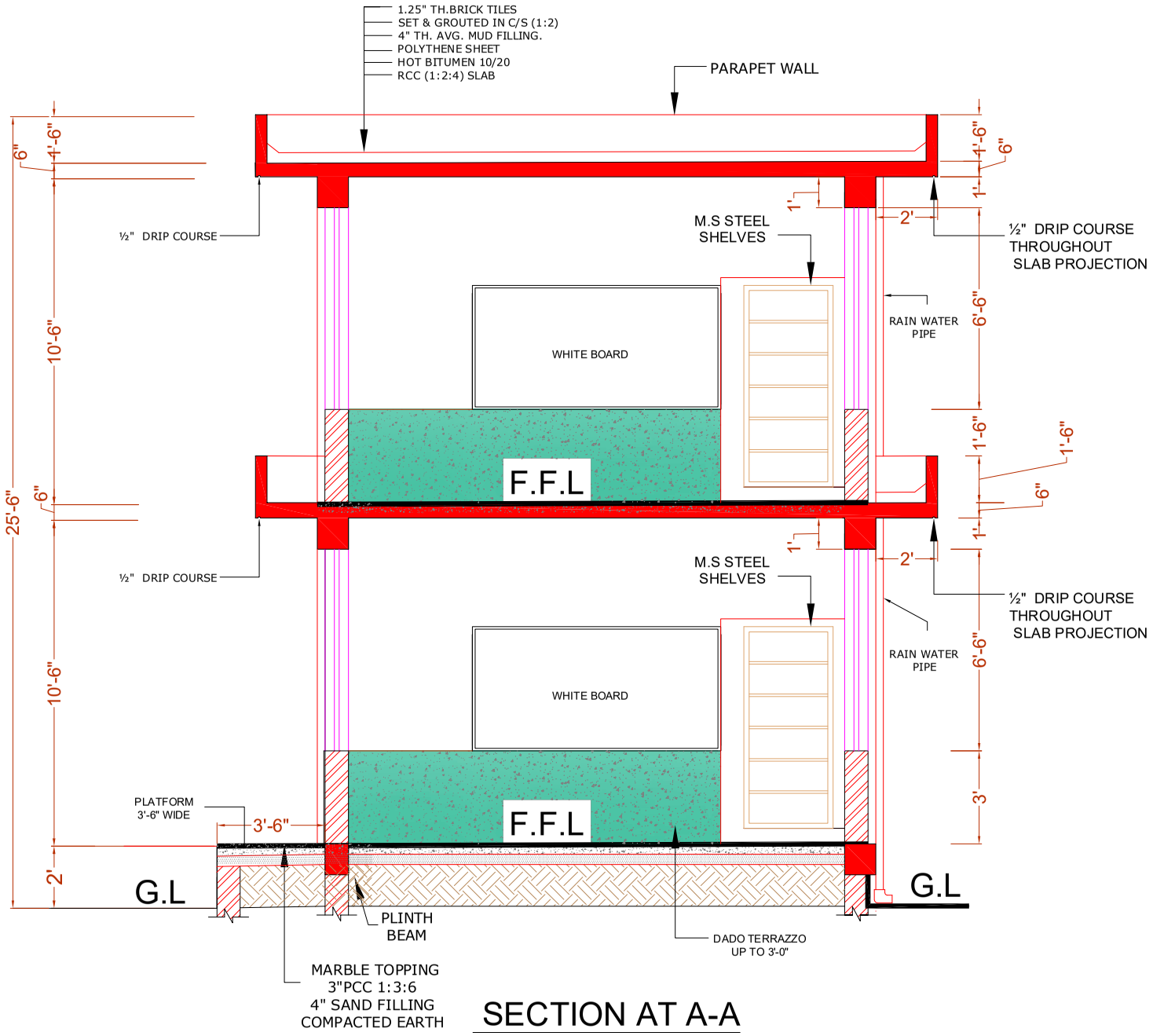
TITLE:
REAR ELEVATION

DATE	SCALE	DRG.NO.
SEP 2023		A-05



SECTION AT A-A

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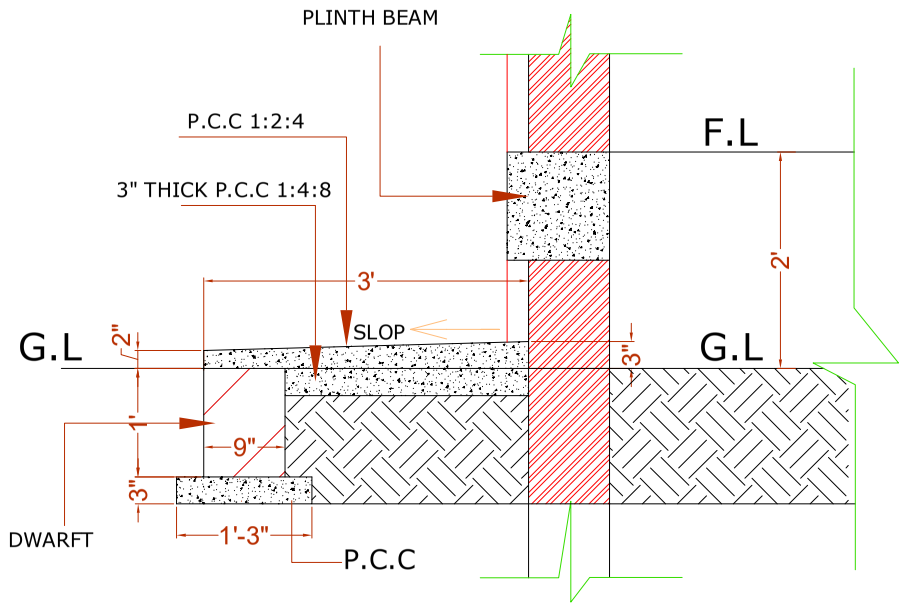
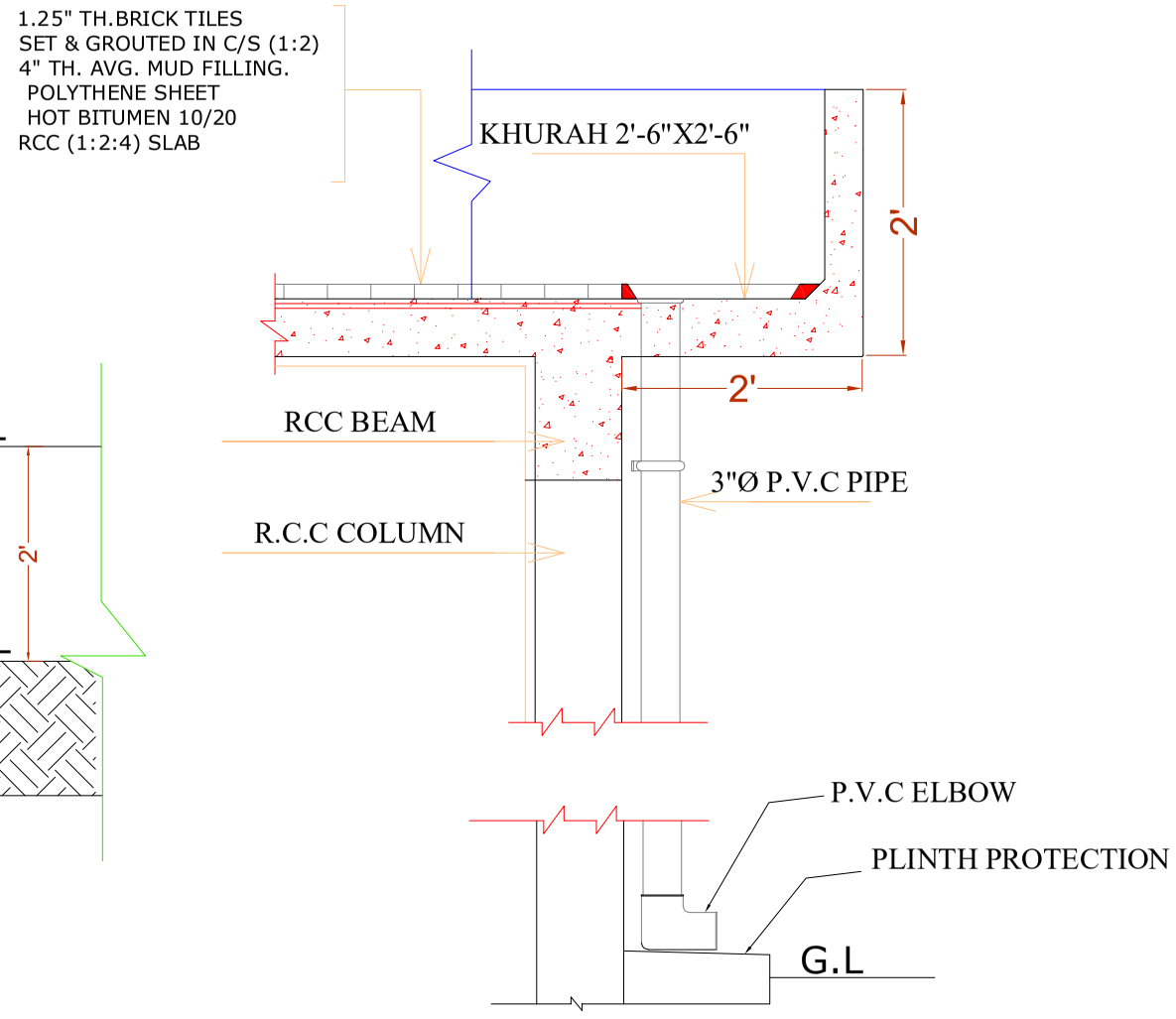
TITLE:
SECTION AT A-A

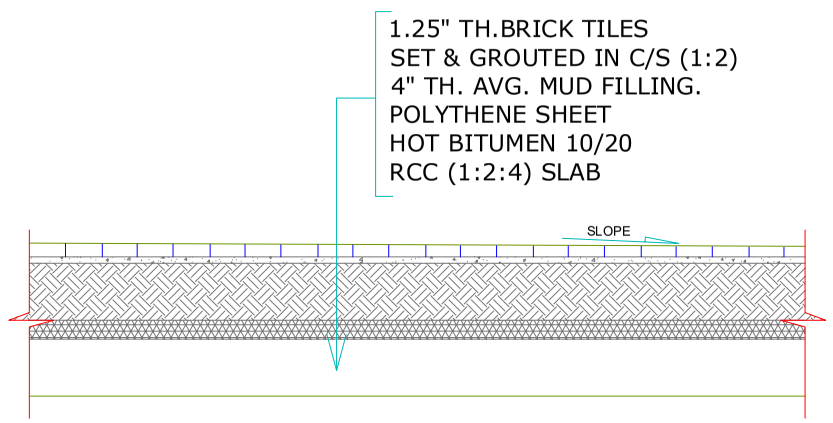
DATE	SCALE	DRG.NO.
SEP 2023		A-06



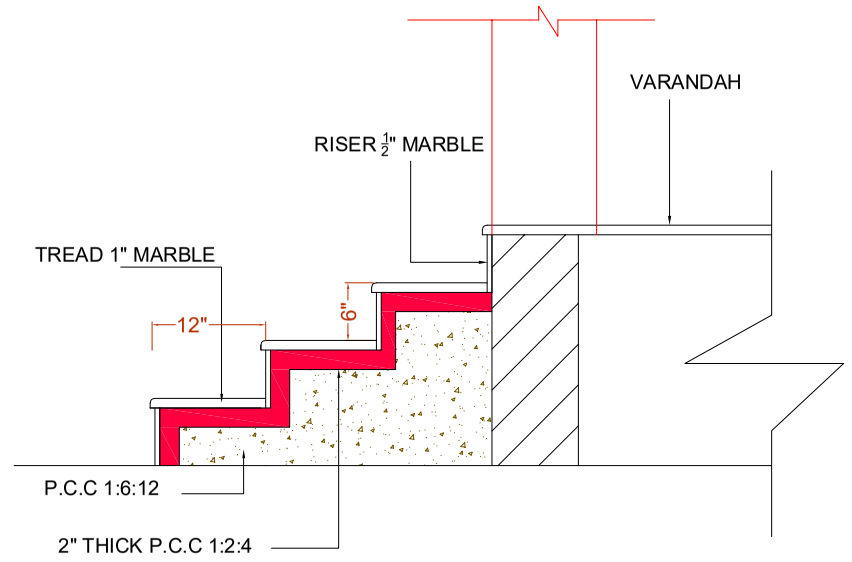
PLINTH PROTECTION



RAIN WATER PIPE DETAIL



ROOF TREATMENT



VERANDAH STEPS DETAILS

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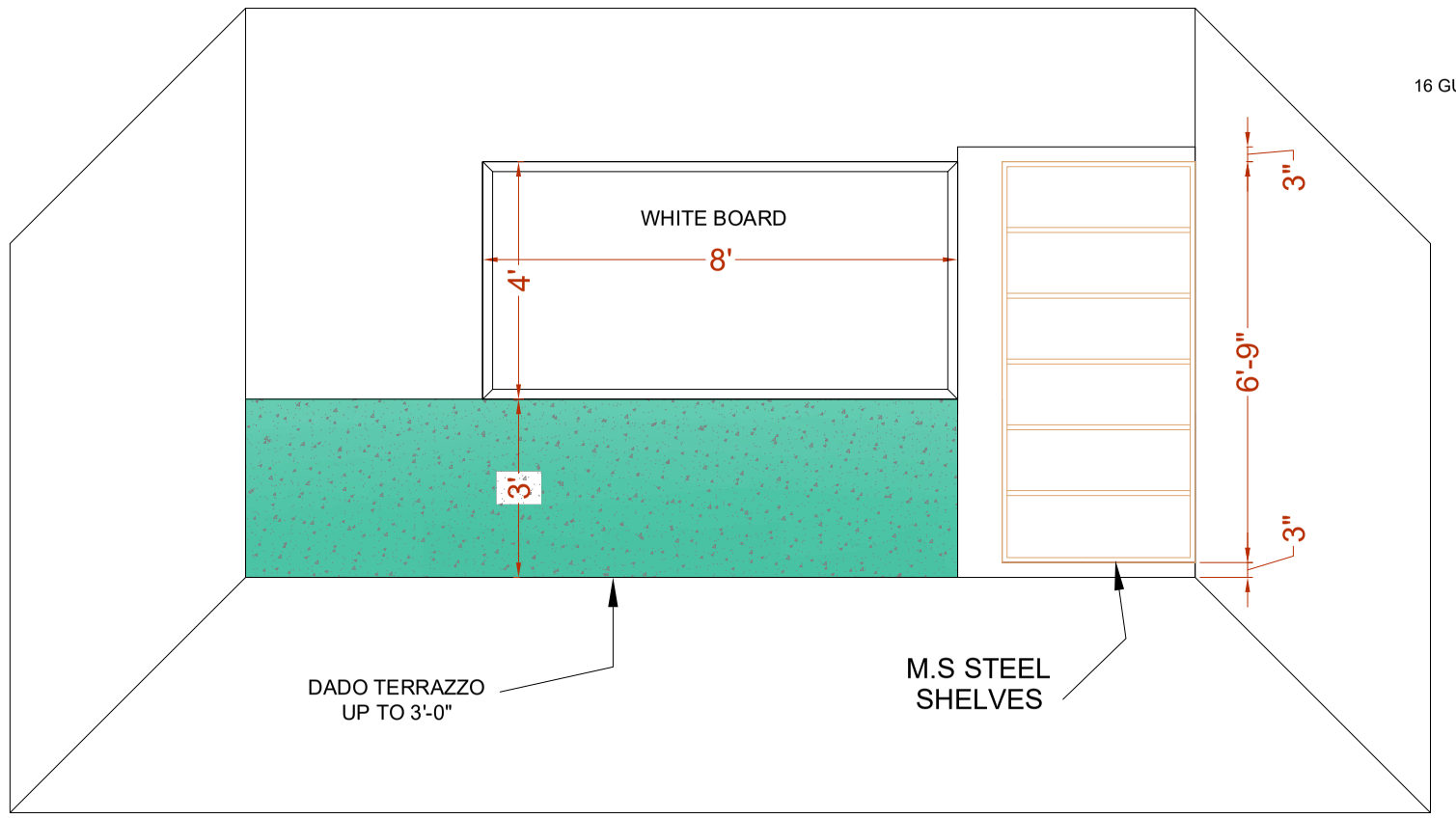
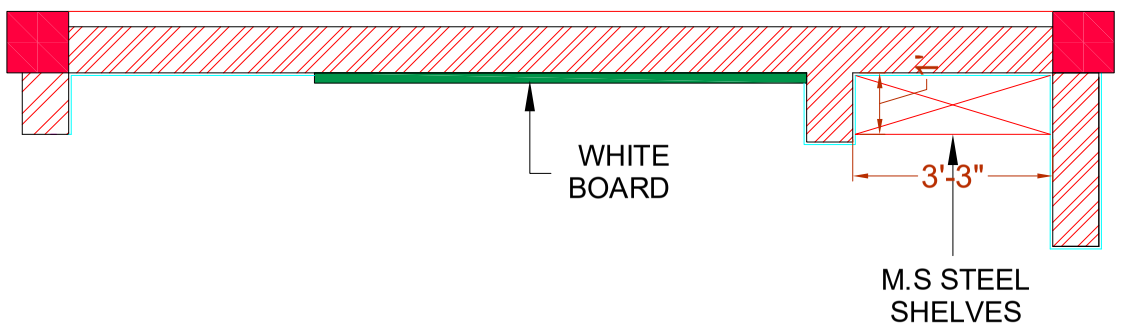
TITLE:
PLINTH PROTECTION, RAIN WATER PIPE,
AND ROOF TREATMENT DETAILS

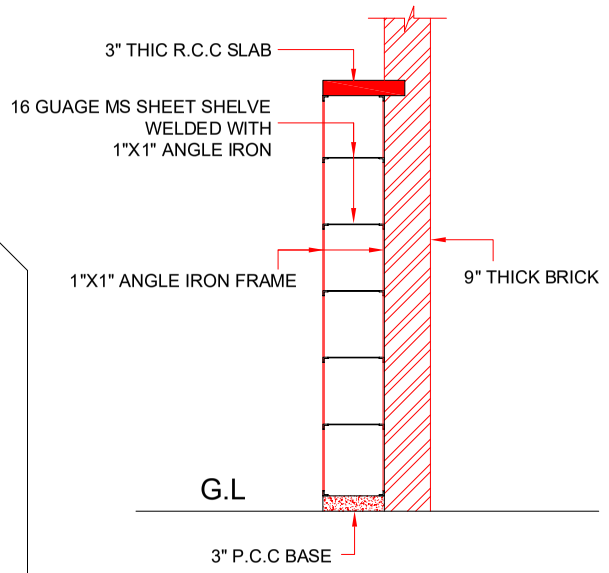
DATE	SCALE	DRG.NO.
SEP 2023		A-07



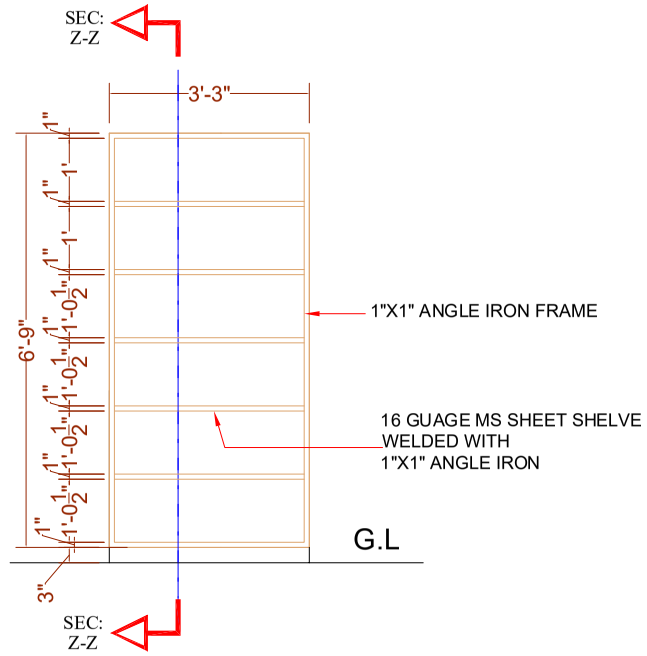
ELEVATION OF WHITE BOARD & CUPBOARD



PLAN OF WHITE BOARD & M.S STEEL SHELVES



SHELVES SECTION AT Z-Z



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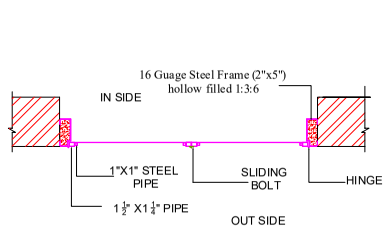
PROJECT: PREPARATION OF DESIGN, DRAWINGS & BOQs FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE: PLAN OF WHITE BOARD & M.S STEEL SHELVES

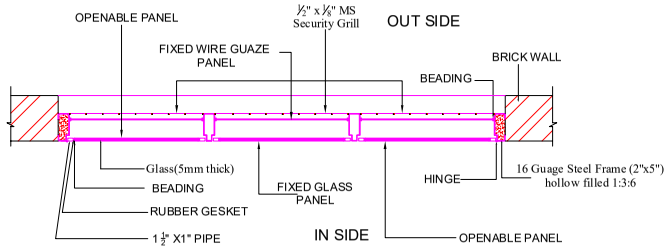
DATE: *SEP 2023* | SCALE: | DRG.NO.: A-08

SCHEDULE OF OPENING

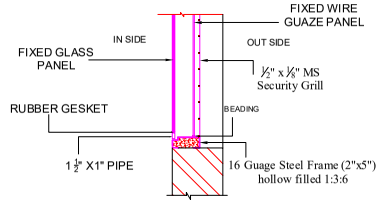
TYPE	SIZE	S-LEVEL	DESCRIPTION
D1	4'-0" X 9'-6"	0"-0"	STEEL
W1	6'-0" X6'-6"	3'-0"	STEEL



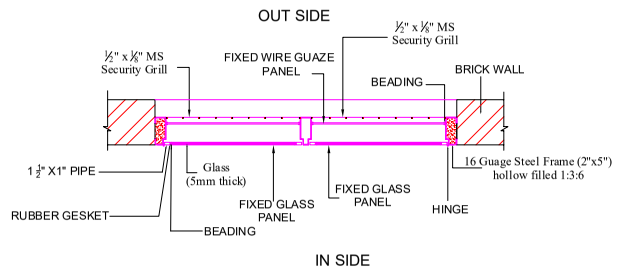
DOOR SECTION B.B



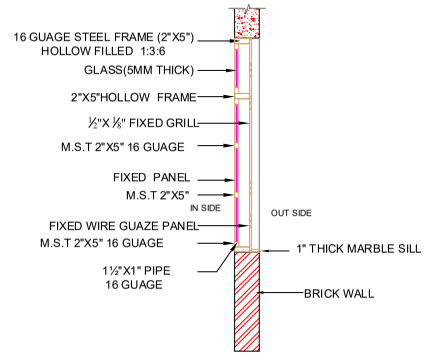
WINDOW SECTION AT A.A (W1)



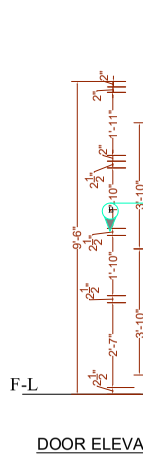
WINDOW SECTION AT C-C



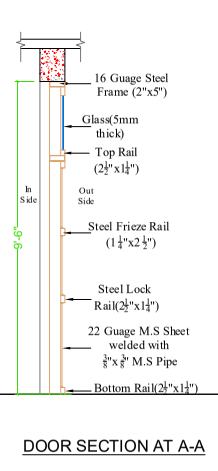
WINDOW SECTION A.A (W2)



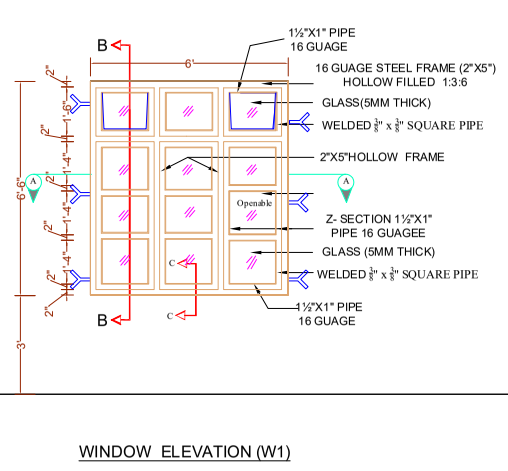
WINDOW SECTION AT D-D



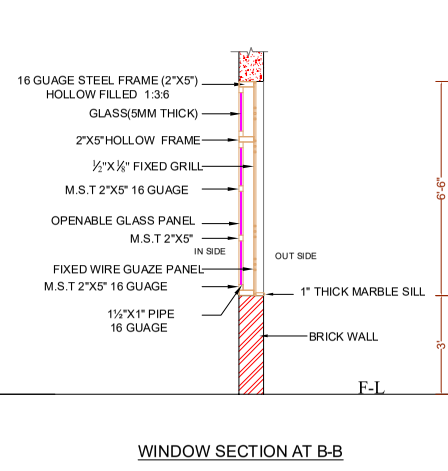
DOOR ELEVATION (D)



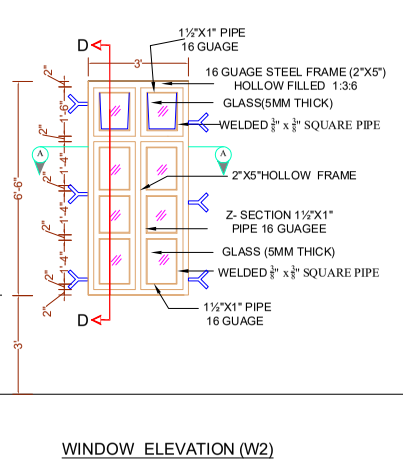
DOOR SECTION AT A-A



WINDOW ELEVATION (W1)



WINDOW SECTION AT B-B



WINDOW ELEVATION (W2)

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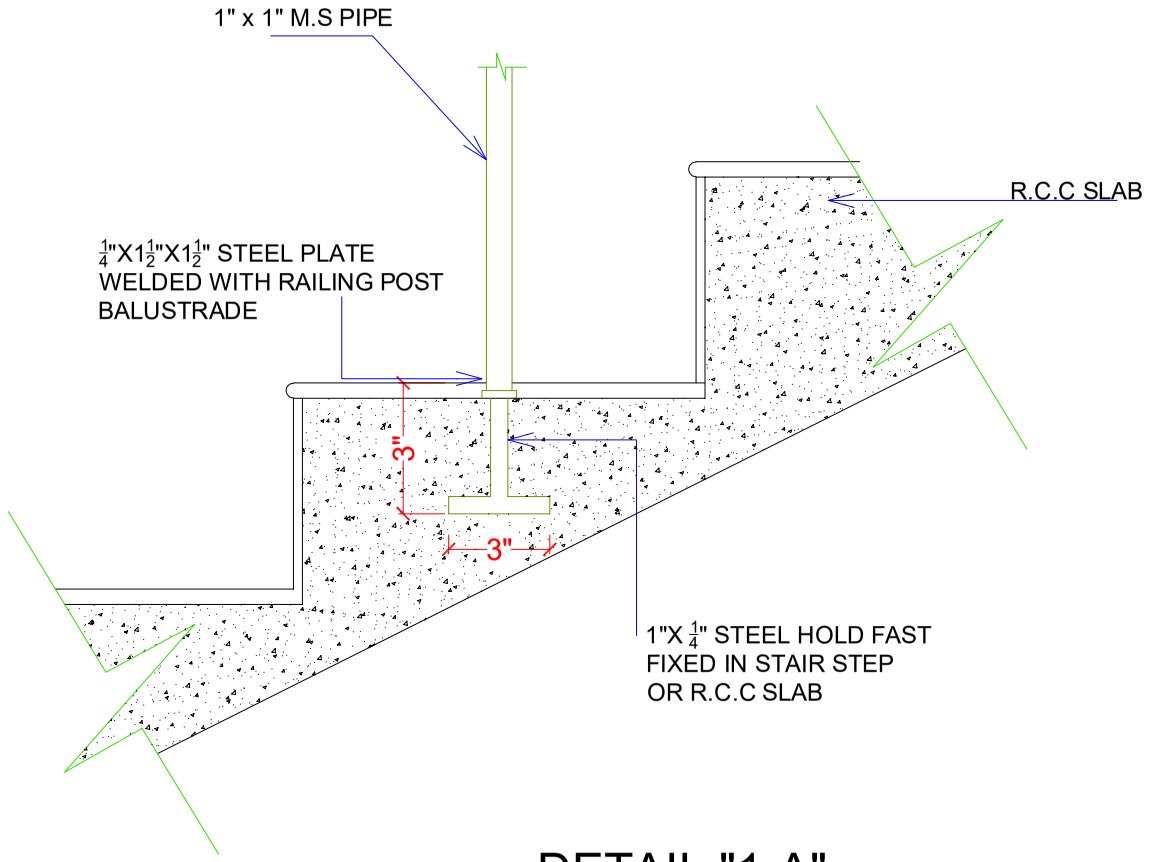
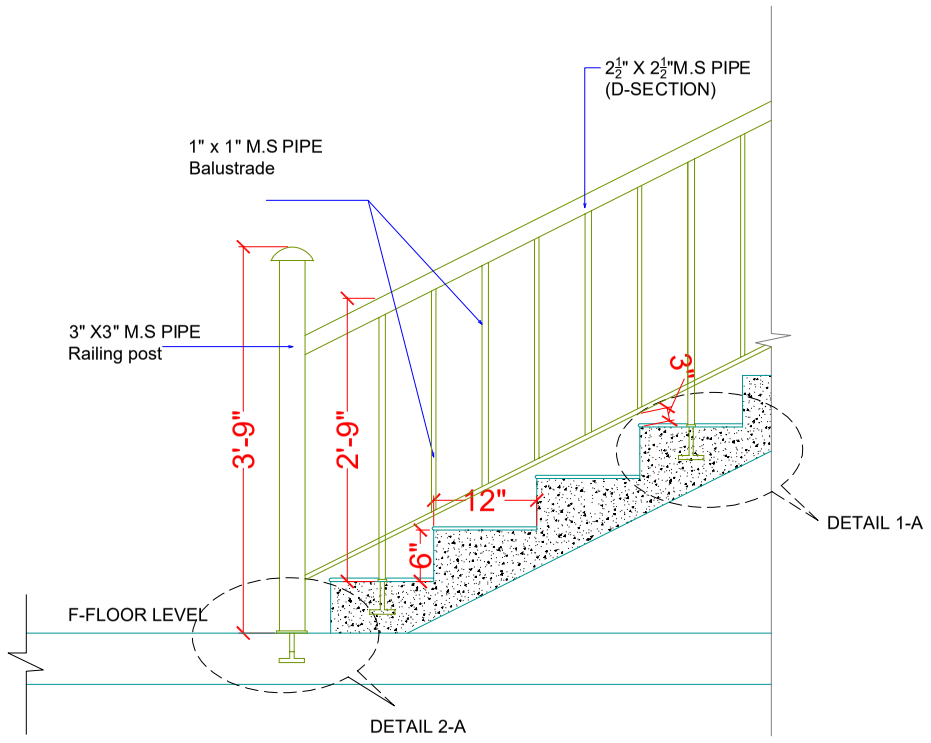
TITLE:
DOOR ,WINDOW DETAILS

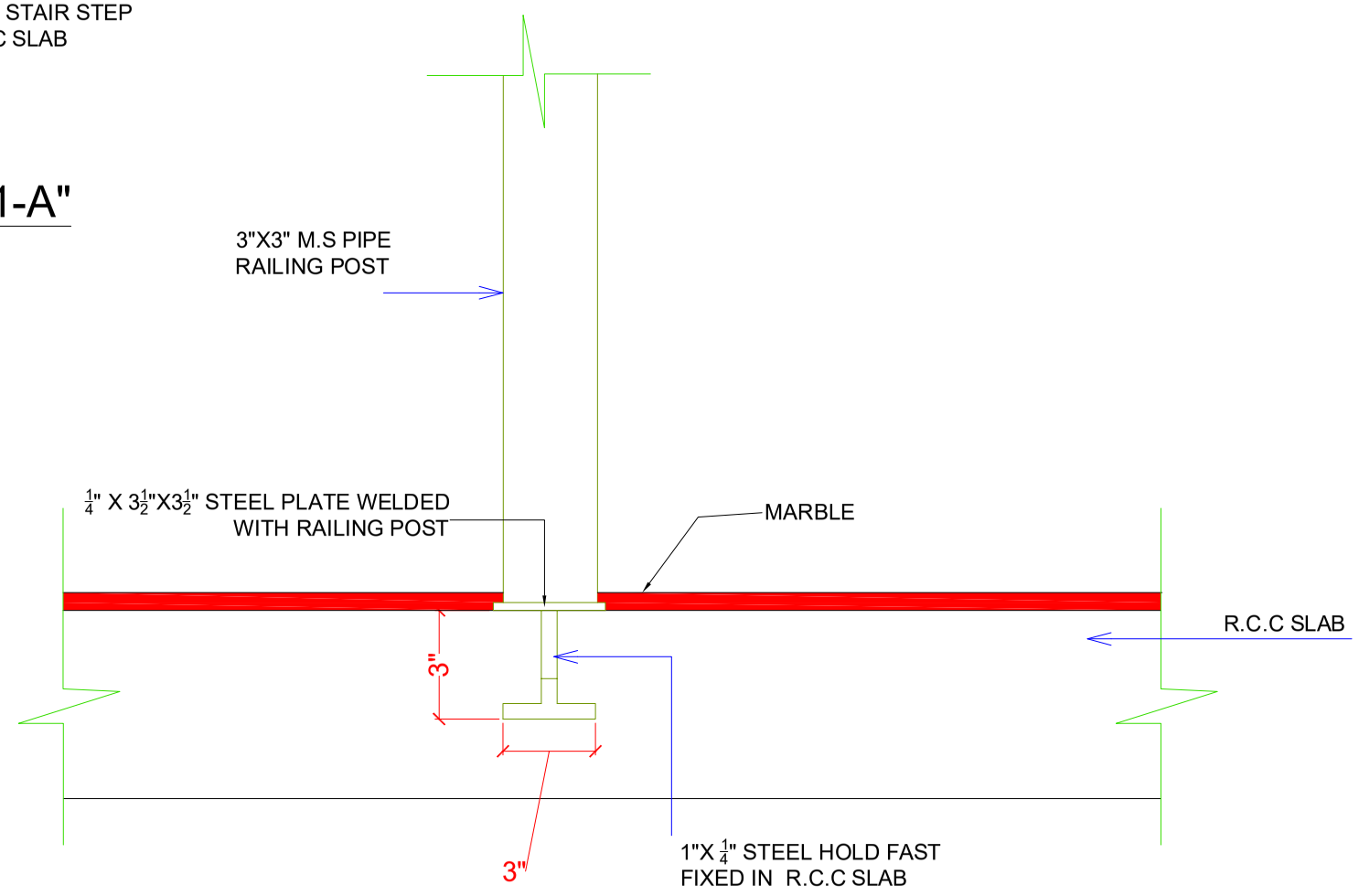
DATE	SCALE	DRG.NO.
SEP 2023		A-09



DETAIL "1-A"



STAIR RAILING DETAILS



DETAIL "2-A"

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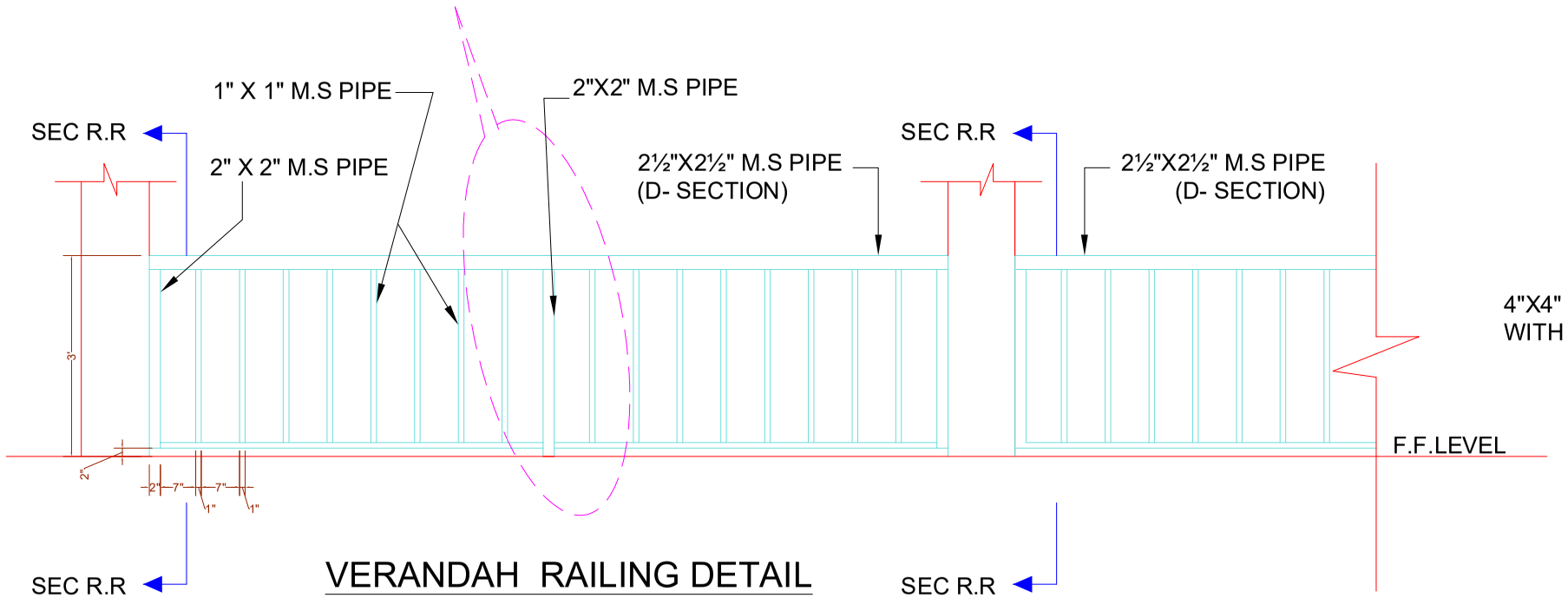
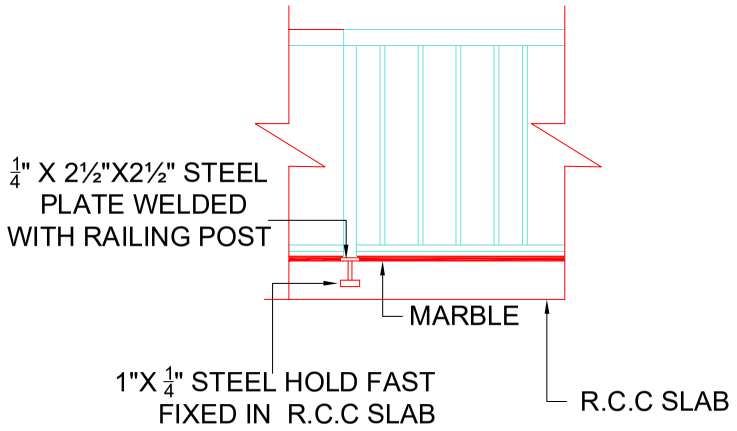
TITLE:
STAIRS RAILING DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		A-10

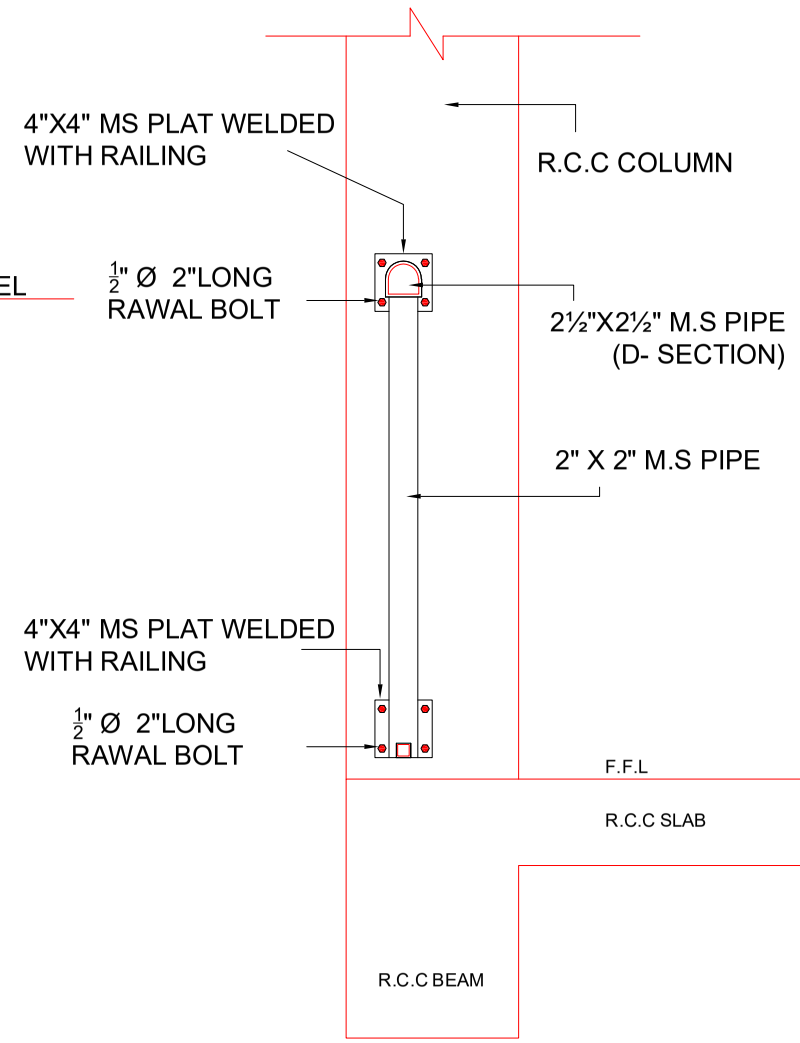
DETAIL R-2



VERANDAH RAILING DETAIL



VERANDAH RAILING DETAIL -R-2



SECTION R.R

CLIENT:

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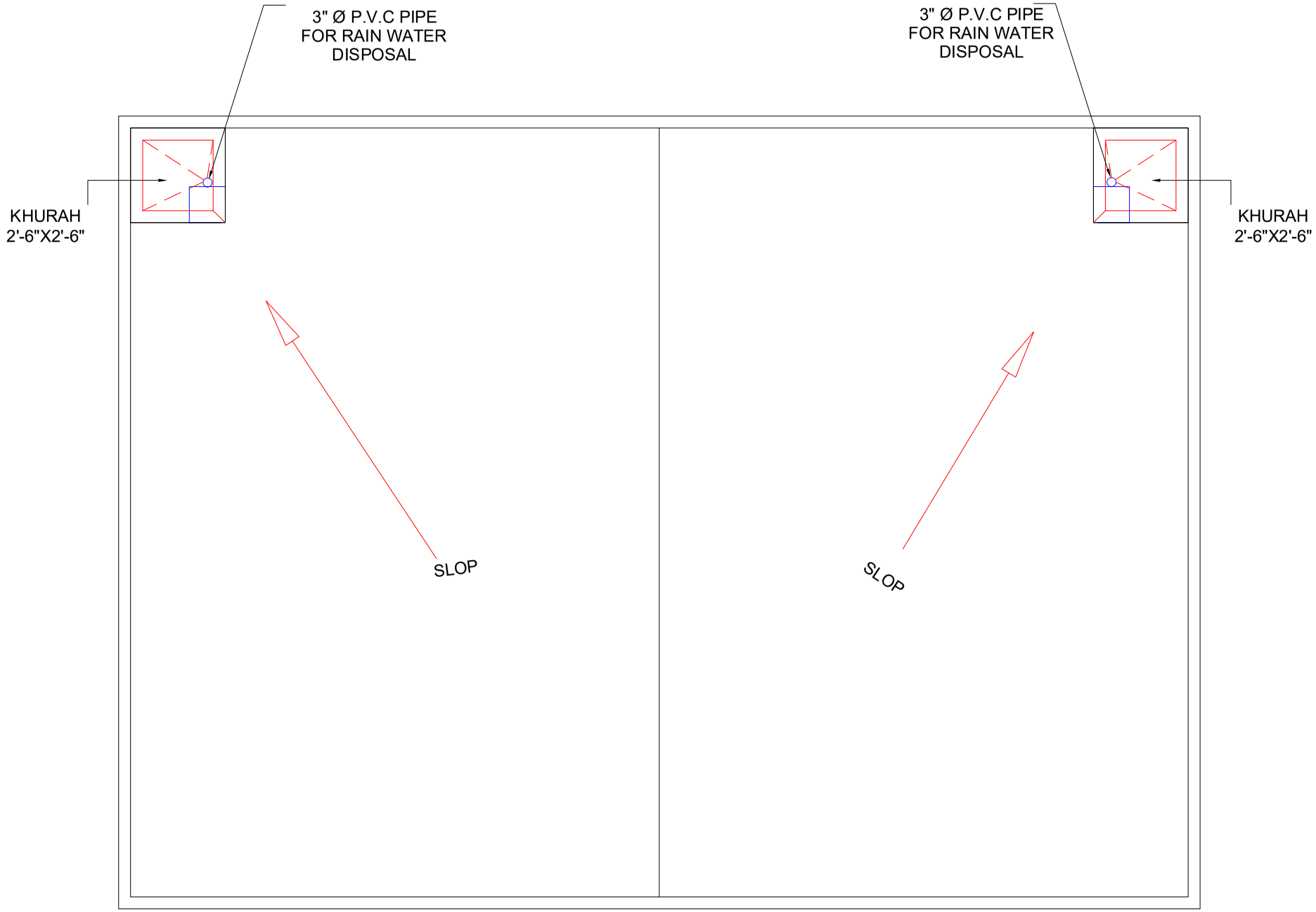
DISTRICT ATTOCK

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

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

TITLE:
VERANDAH RAILING DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		A-11



TOP ROOF PLAN

CLIENT:

UNHCR
The UN Refugee Agency

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

GGES JASSIAN
DISTRICT ATTOCK

Date of Revision	Prepared By	FARID KHAN KHAN HAIDER
	Designed By	ARCHITECT MARWAT KHAN ORAKZAI (B.Arch.D.C.E.T Karachi) (M.Arch.UET. Lahore)
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TOP ROOF PLAN

DATE	SCALE	DRG.NO.
SEP 2023		A-12

STRUCTURE DRAWINGS
OF
GGES JASSIAN
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 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 ENGINEER'S APPROVAL AND OBTAIN HIS CONTRACTOR FROM HIS RESPONSIBILITY.
17. 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) 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, C172 & 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 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 MANUFACTURER'S 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.

STRUCTURAL ELEMENT	COVER (INCHES)
FOOTINGS	2"
BEAMS	1½"
COLUMNS	1½"
SLABS	3/4"
WALLS	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, 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
3. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRENGTH TO THE ADDITIONAL 3000 PSI)
ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25
4. CLEAR COVER TO REINFORCEMENT SHALL BE: (inches)

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/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 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 CONFIRM 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

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SCHOOL NAME

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DISTRICT ATTOCK

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

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

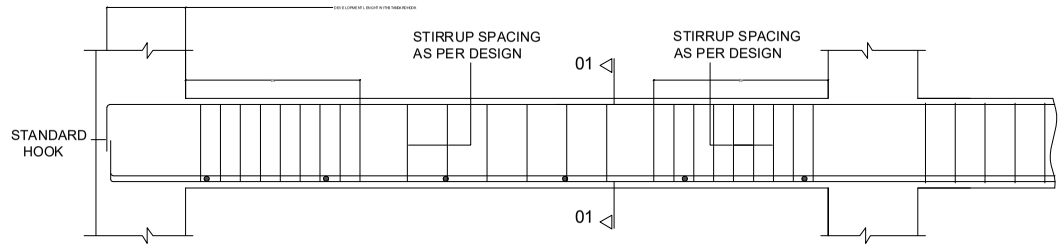
TITLE: GENERAL NOTES

DATE	SCALE	DRG.NO.
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

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)

BAR DIA	DEVELOPMENT LENGTH (INCHES) fc' = 4,000 psi fy = 60,000 psi	
	STRAIGHT BARS	WITH STANDARD HOOK
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)

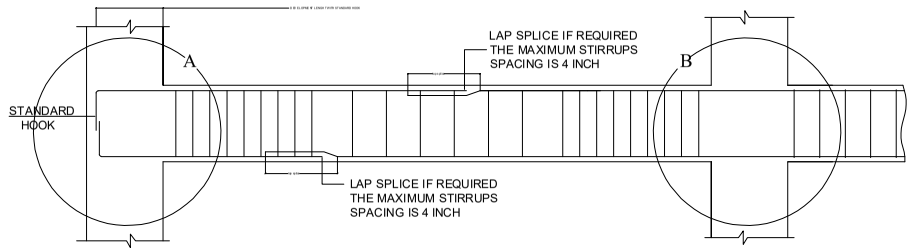
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES) fc' = 3,000 psi fy = 40,000 psi	
	TENSION	COMPRESSION
3/8"	15	-
1/2"	20	9
3/4"	30	15
1"	48	18

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)

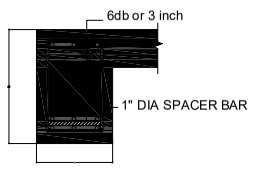
BAR DIA	DEVELOPMENT LENGTH (INCHES) fc' = 3,000 psi fy = 60,000 psi	
	STRAIGHT BARS	WITH STANDARD HOOK
1/2"	22	11"
5/8"	30	14"
3/4"	34	17"
1"	55	22"

SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)

BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES) fc' = 3,000 psi fy = 60,000 psi	
	SLAB	BEAM / COLUMN
1/2"	25	35
5/8"	-	44
3/4"	-	55
1"	-	70



TYPICAL BEAM DETAIL



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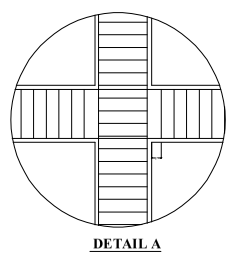
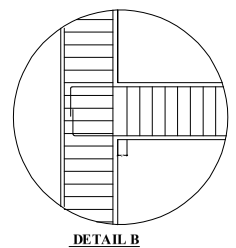


DETAIL A



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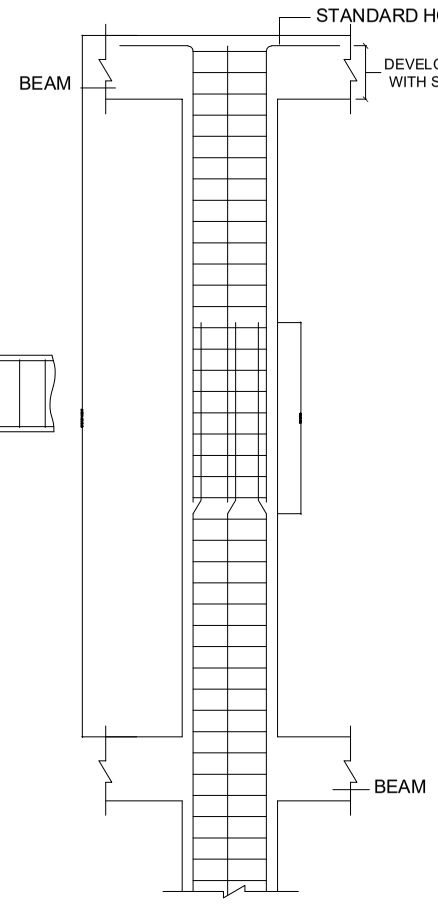

TYPICAL COLUMN DETAIL

CLIENT: UNHCR The UN Refugee Agency

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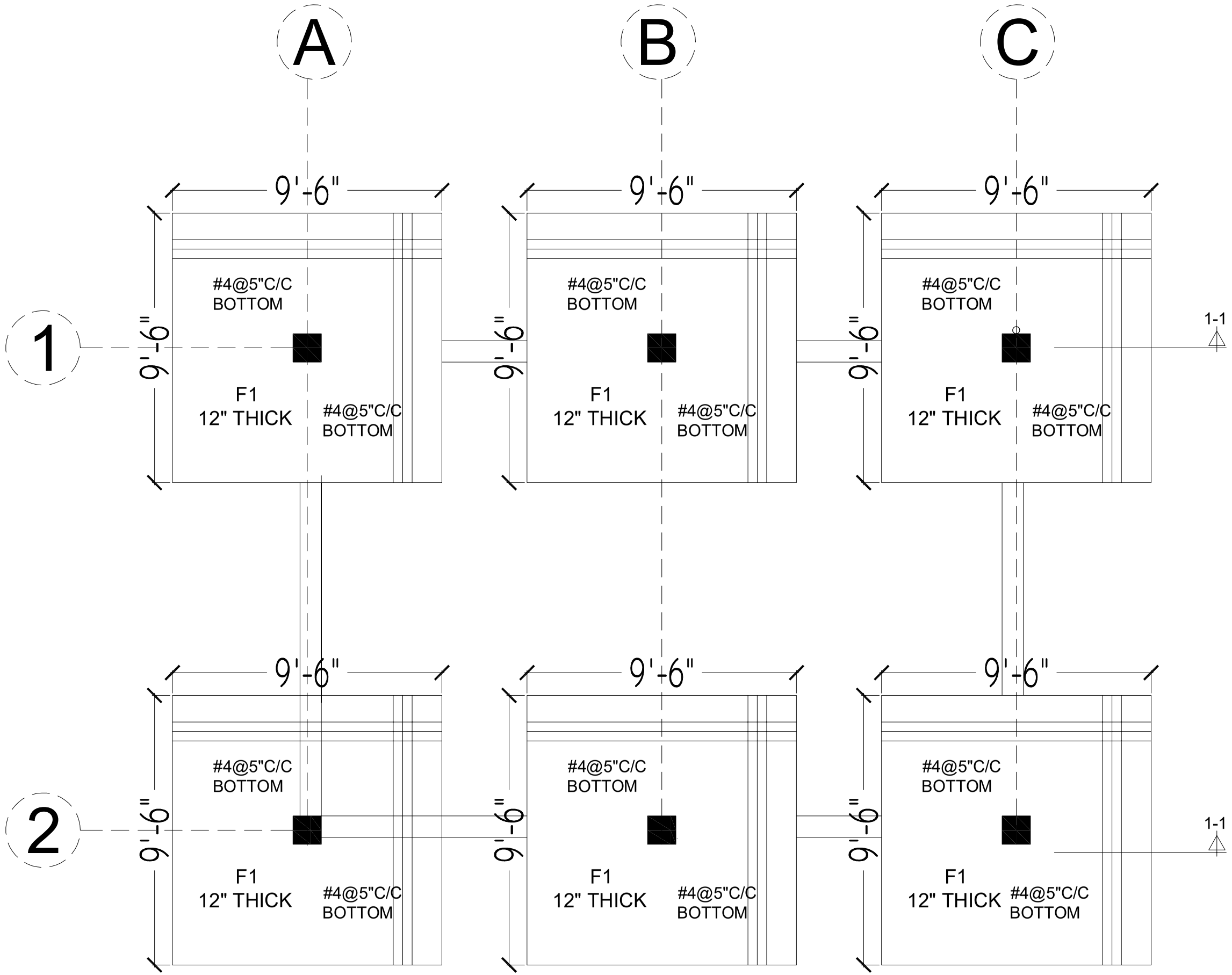
TITLE: GENERAL NOTES

DATE	SCALE	DRG.NO.
SEP 2023		S-02



FOUNDATION PLAN

CLIENT:

UNHCR
The UN Refugee Agency

CONSULTANTS:

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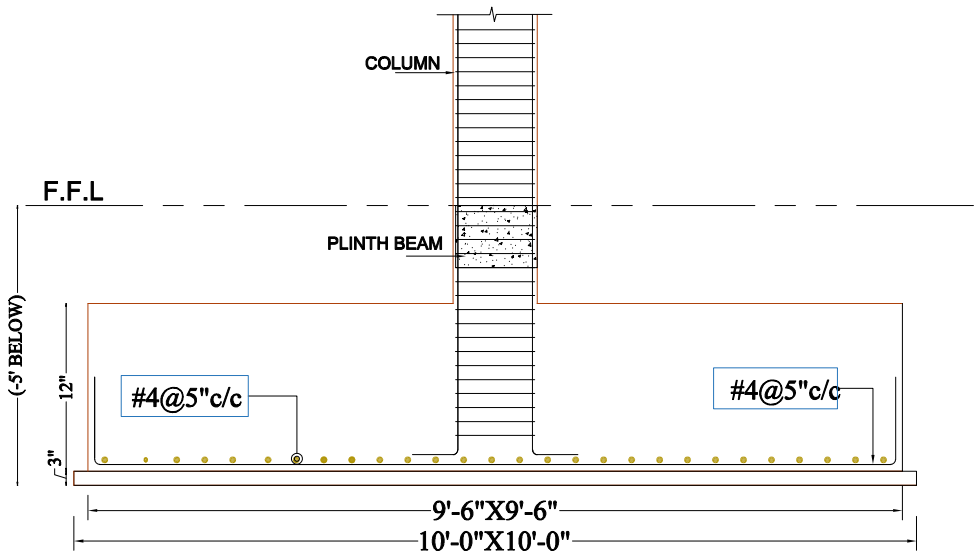
FOUNDATION PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-03



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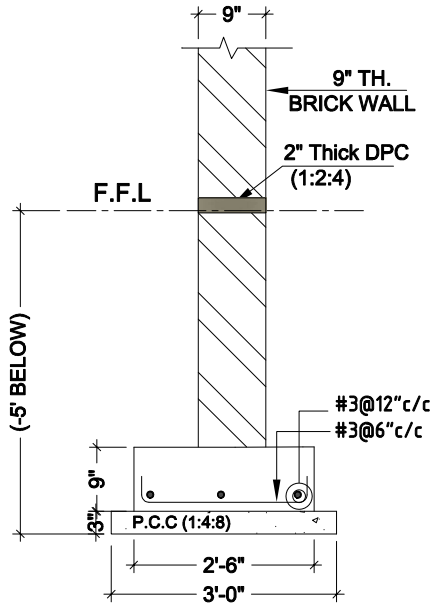

SECTION 4-4

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FOUNDATION SECTION DETAIL

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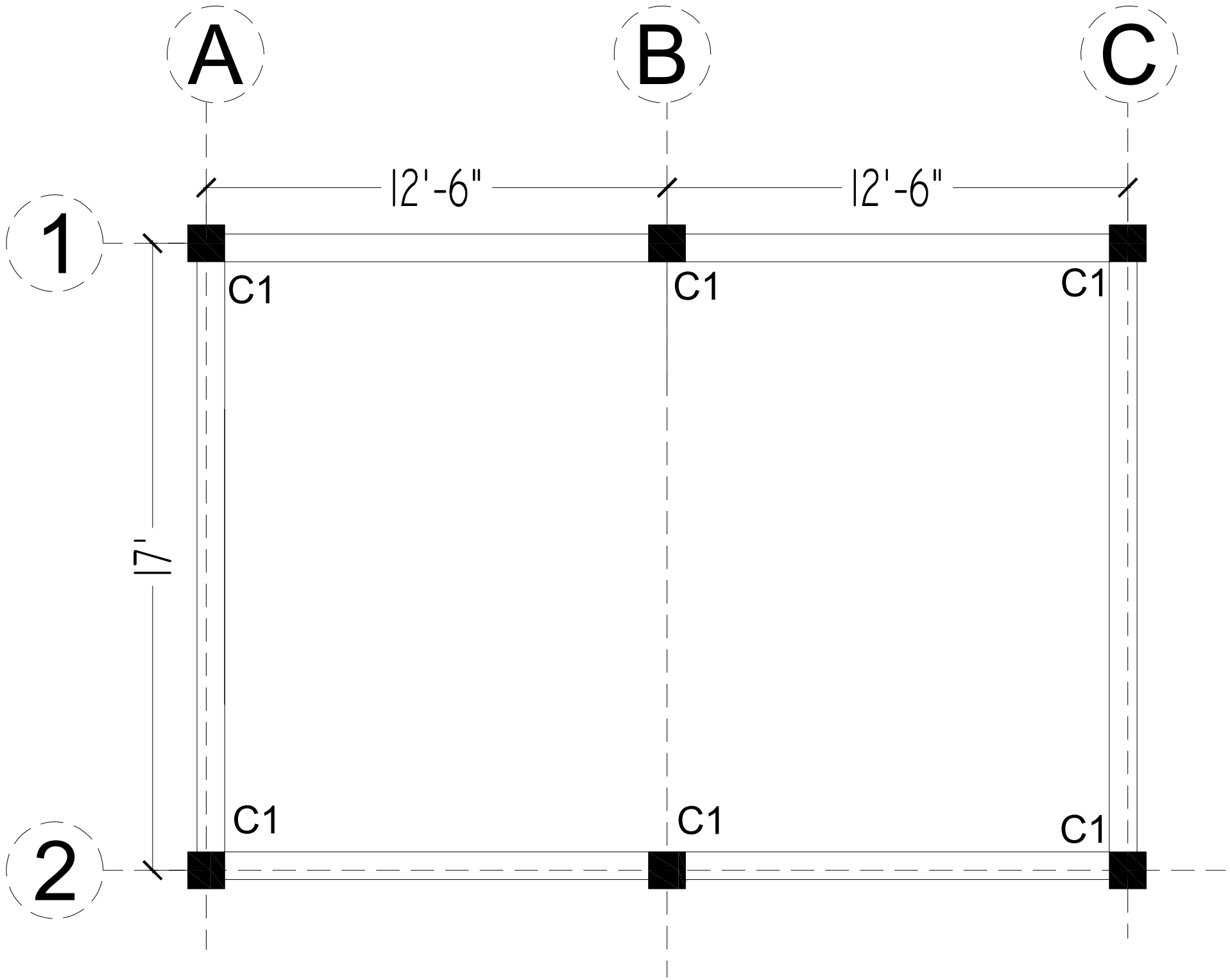
SEP 2023		S-04



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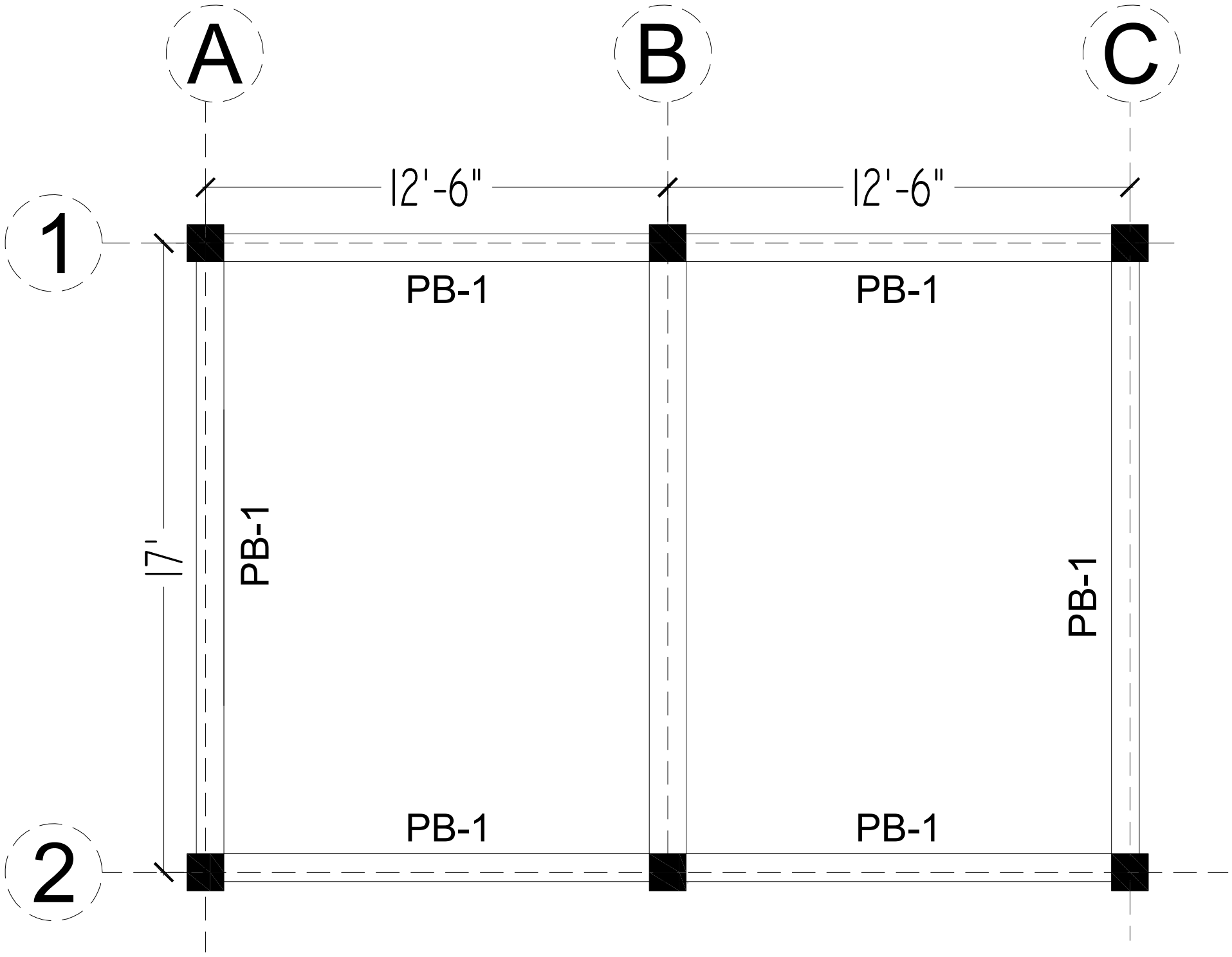
TITLE:
GROUND FLOOR COLUMN LAYOUT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-05



PLINTH BEAM PLAN

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PLINTH BEAM PLAN

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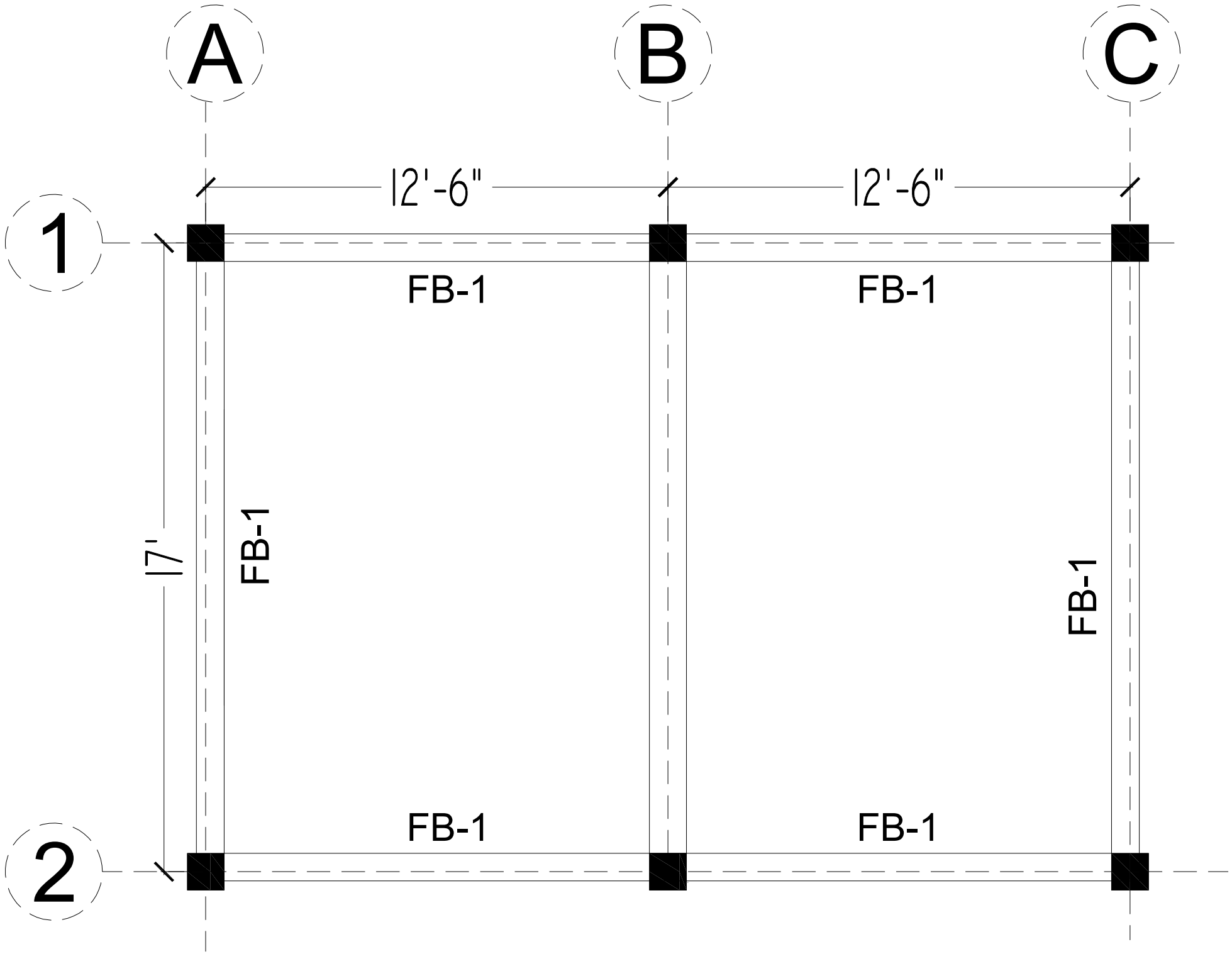
SEP 2023		S-06



GROUND FLOOR BEAM PLAN

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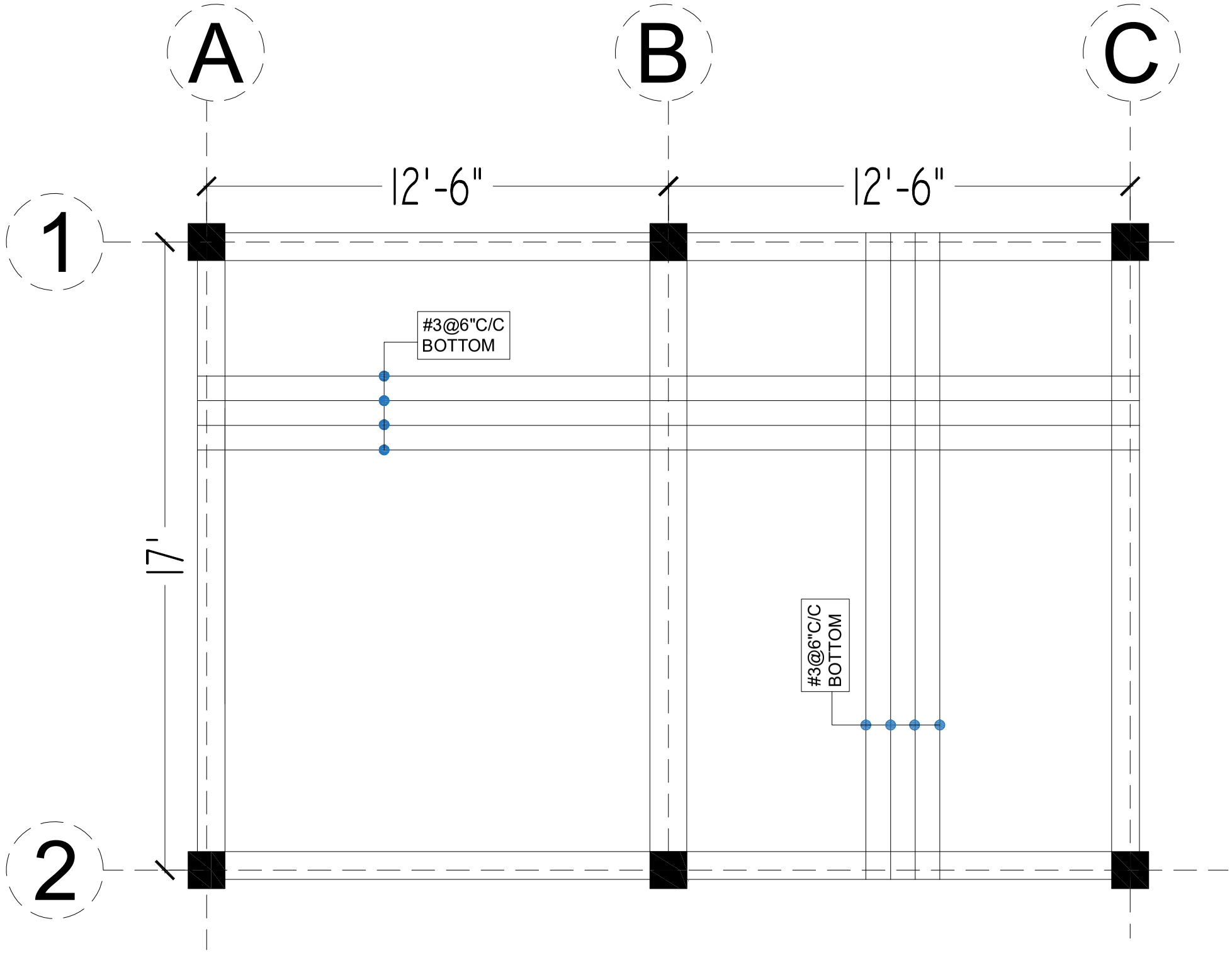
SEP 2023		S-07



GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN

NOTE :
SLAB THICKNESS = 6"

CLIENT:

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DISTRICT ATTOCK

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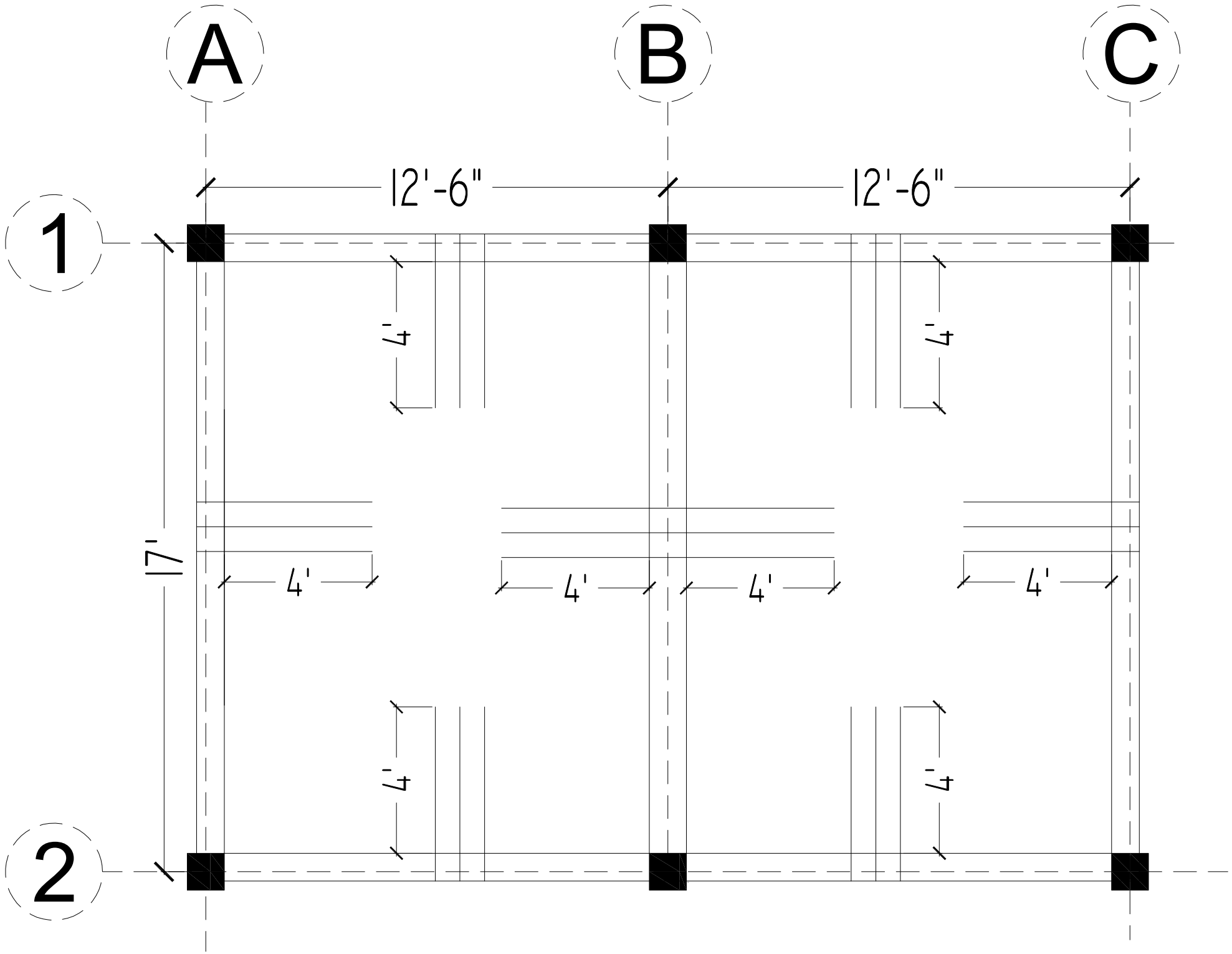
	Designed By	STRUCTURE ENGINEER : Engr. HUMZA AHMAD
	Checked By	
	Approved By	

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

TITLE:
GROUND FLOOR SLAB BOTTOM
REINFORCEMENT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-08



GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

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

CLIENT:
UNHCR
The UN Refugee Agency

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

GGES JASSIAN
DISTRICT ATTOCK

Date of Revision	Prepared By	FARID KHAN KHAN HAIDER
	Designed By	STRUCTURE ENGINEER : Engr. HUMZA AHMAD
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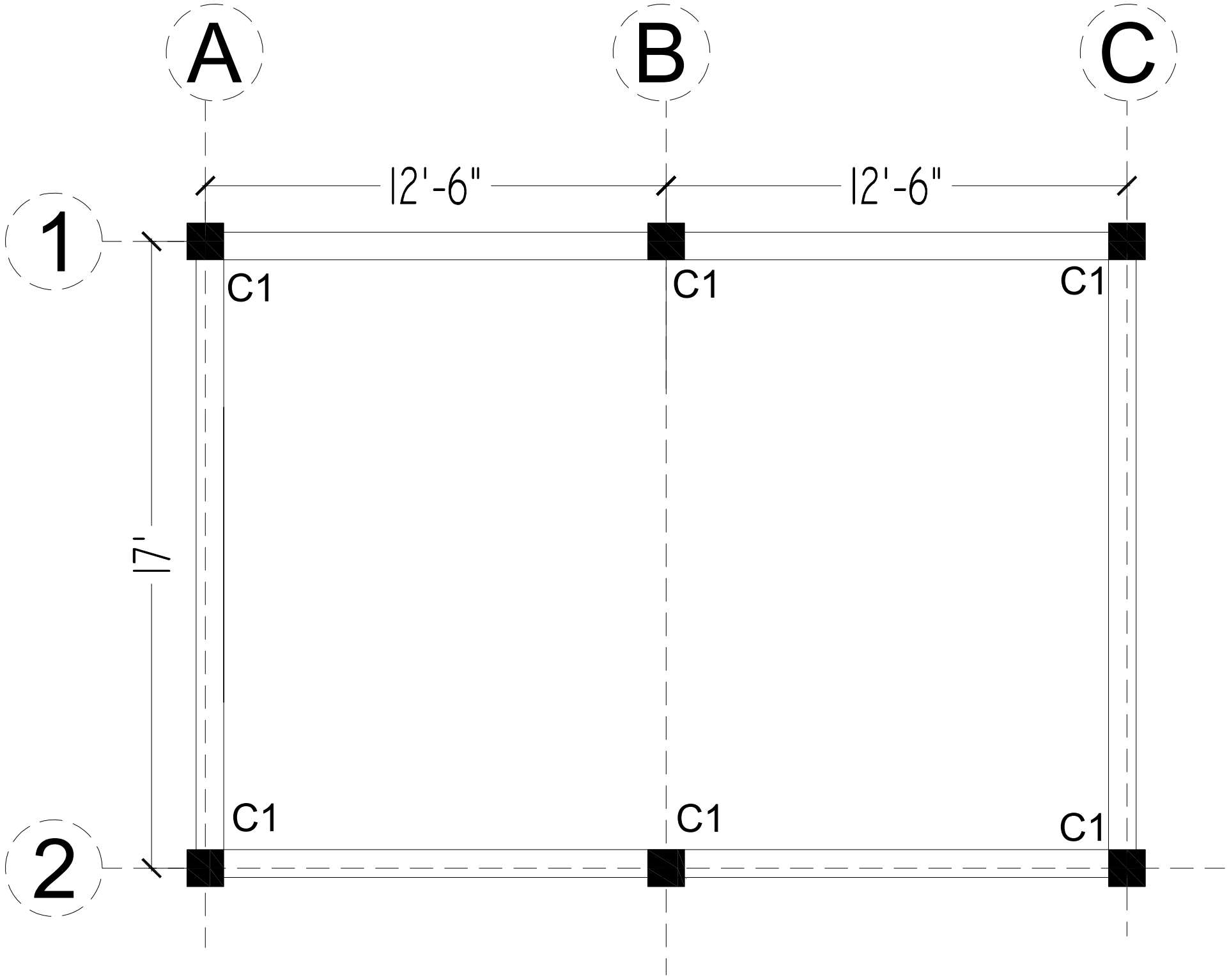
	Approved By	

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

TITLE:
GROUND FLOOR SLAB TOP
REINFORCEMENT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-09



CLIENT:

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PROJECT:
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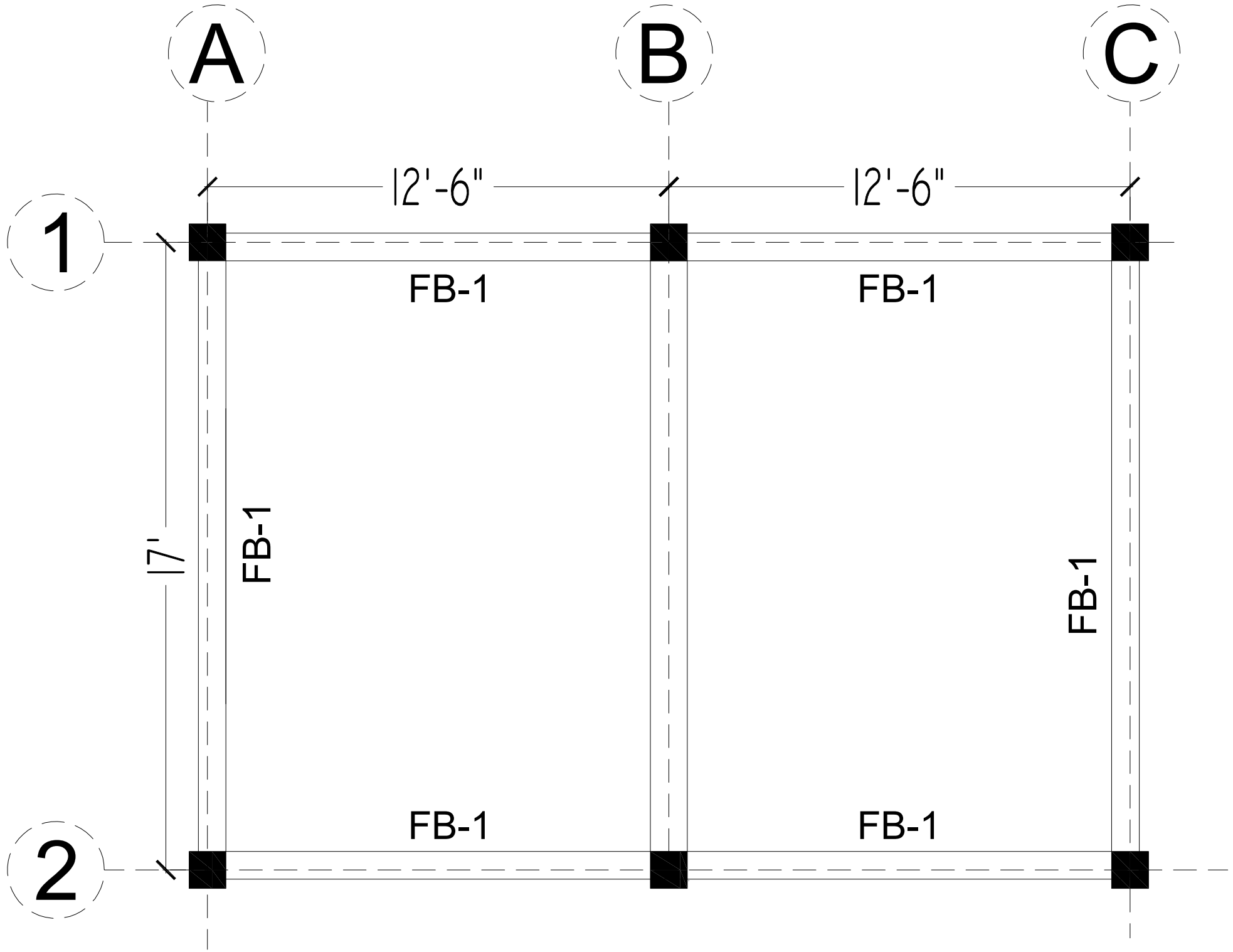
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
FIRST FLOOR COLUMN LAYOUT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-10



CLIENT:

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The UN Refugee Agency

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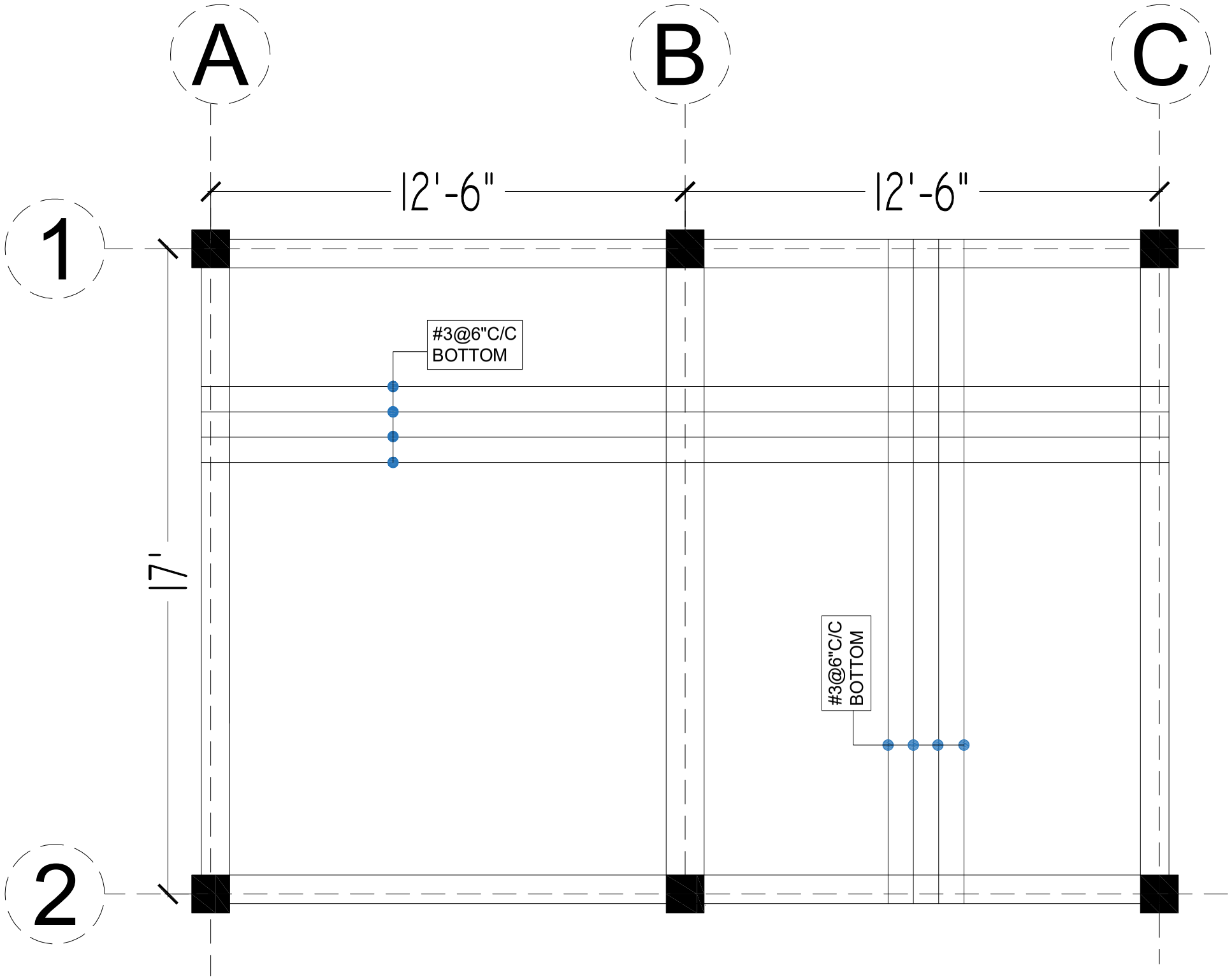
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
FIRST FLOOR BEAM PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-11



FIRST FLOOR SLAB BOTTOM REINFORCEMENT PLAN

NOTE :
SLAB THICKNESS = 6"

CLIENT:

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The UN Refugee Agency

CONSULTANTS:

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PROJECT:
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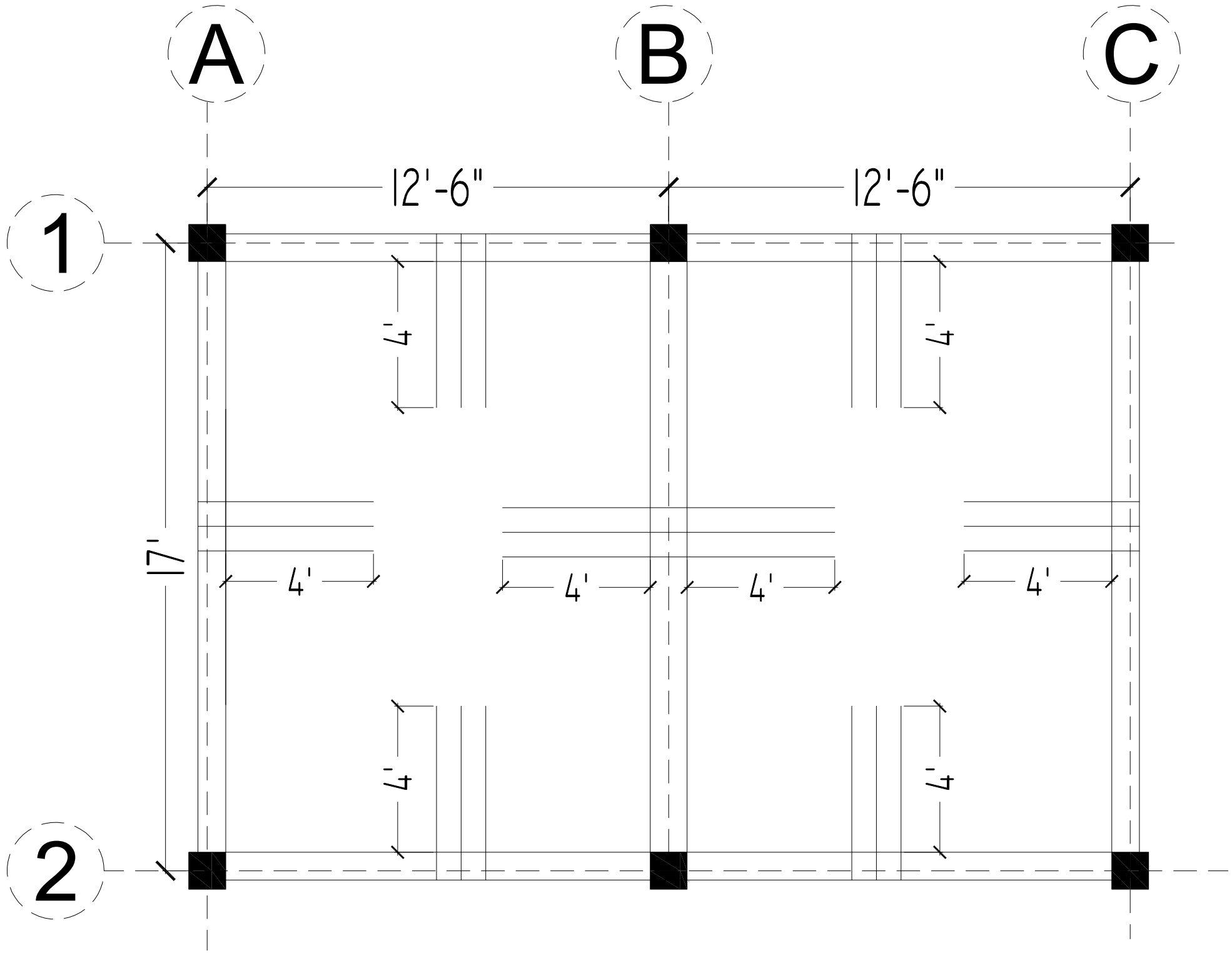
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
FIRST FLOOR SLAB BOTTOM
REINFORCEMENT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-12



FIRST FLOOR SLAB TOP REINFORCEMENT PLAN

NOTE :
SLAB THICKNESS = 6"

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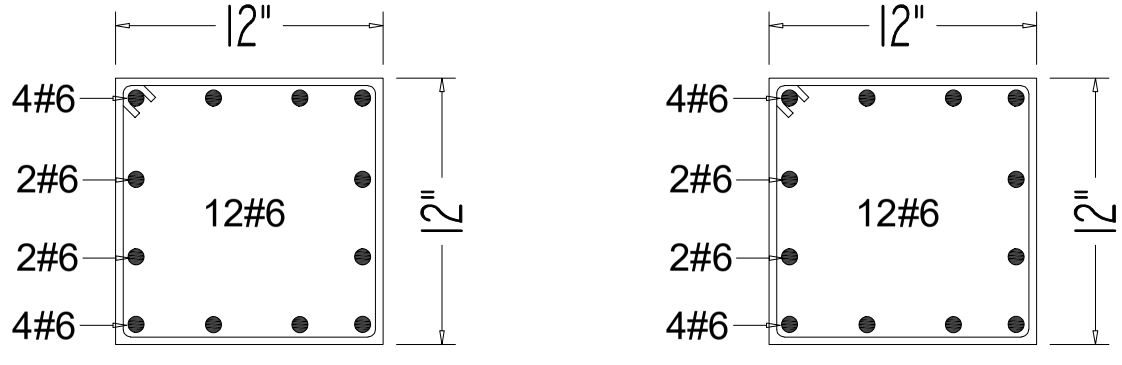
PROJECT:
PREPARATION OF DESIGN, DRAWINGS & BOQs
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
FIRST FLOOR SLAB TOP
REINFORCEMENT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-13

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

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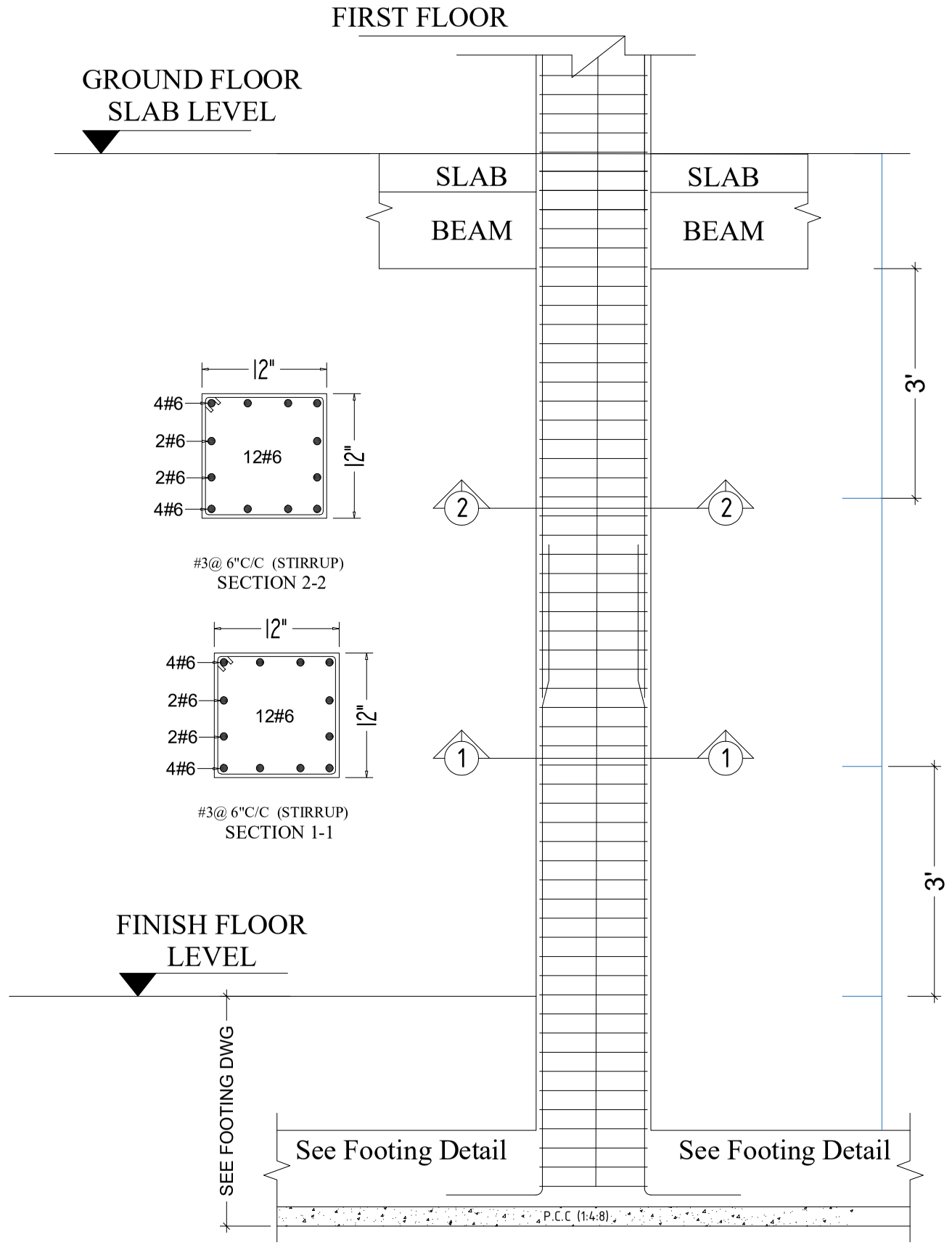
PROJECT:
PREPARATION OF DESIGN, DRAWINGS & BOQs
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
COLUMN DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		S-14



COLUMN LONG SECTION C1

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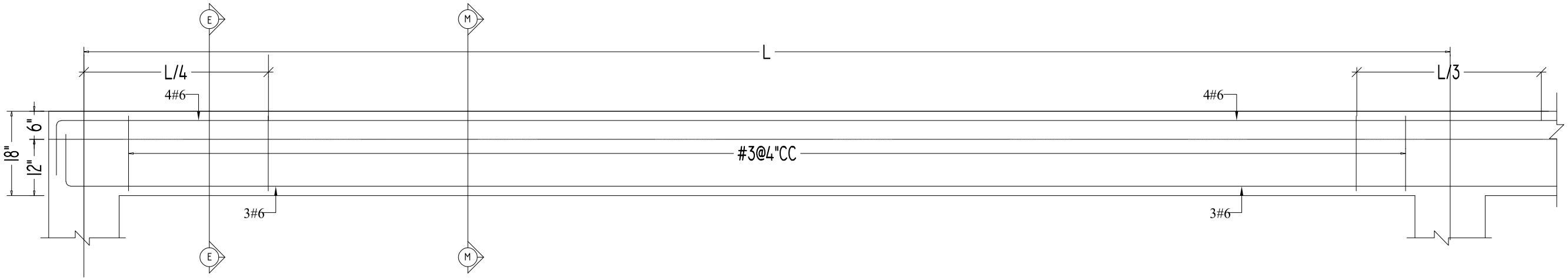
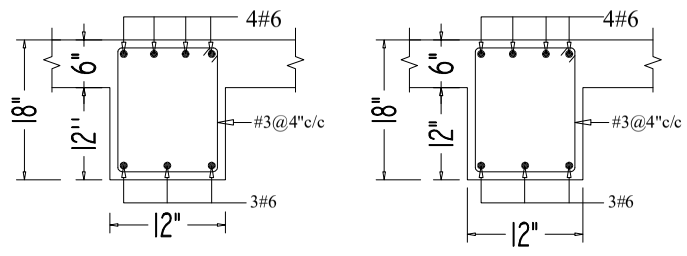
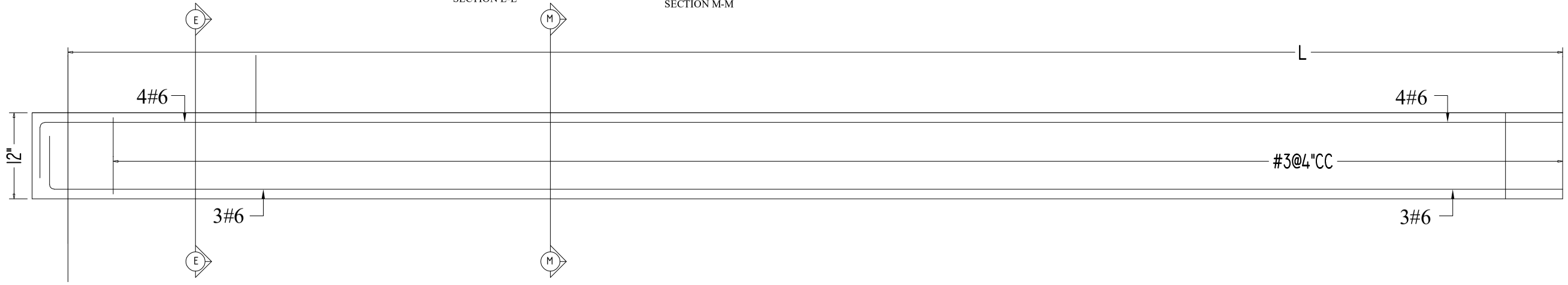
TITLE:
COLUMN DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		S-15

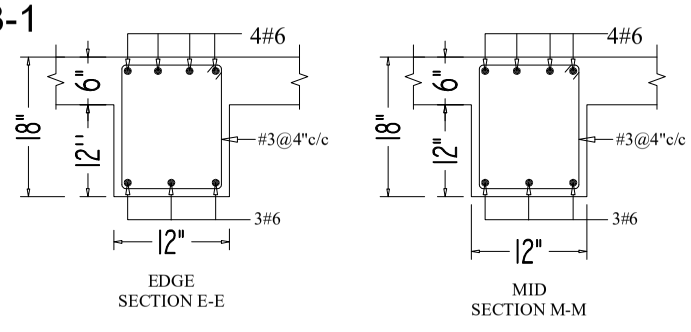


TYPICAL ELEVATION OF FB-1





TYPICAL ELEVATION OF PB-1



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

TITLE:
BEAM DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		S-16

ELECTRIFICATION DRAWINGS
OF
GGES JASSIAN 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	FIRST FLOOR PLAN	E-06
7	FIRST FLOOR DIMENSION PLAN	E-07
8	SECTION	E-08
9	EARTHING DETAIL PLAN	E-09
10	MAIN DISTRIBUTION BOARD	E-10
11	LOAD CALCULATION	E-11

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SCHOOL NAME

GGES JASSIAN DISTRICT
ATTOCK

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

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

TITLE:
LIST OF DRAWINGS

DATE	SCALE	DRG.NO.
SEP 2023		E-00

ELECTRICAL SYSTEMS

FOLLOWING NOTES SHELL 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 NECESSITATY ALTERATION OR DEVIATION OF THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.

2. DIMENSIONS / MLASURLMENTS 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.ARRANGMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE EXACT ARRANGMENT OF EQUIPMENT SHALL BE VADE IN VIEW OF ITS PHYSICAL DIMENTIONS AND EASY OF MAINTENANCE.

8.LOAD ON ALL PHASES SHELL BE MAXIMUM BALANCED AT THE TIME OF COMMISSIONING STAGE.IT IS RESPNSIBILITY 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 ORILERIA 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 SAVE SIZE FOR UPTO AND INCLUDING16 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 SHELL BE CARRIED OUT WITH 1 CORE FLEXIBLE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.

13.THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMAL 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 STANDER SIZE MM sqr	25 MM (1")	20 MM ($\frac{3}{4}$")	15 MM ($\frac{3}{8}$")
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 BOAD	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 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS	12 INCHES
> CEILING FAN	ON SLAB
> WALL BRACKET FAN	90 INCHES

CLIENT:

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SCHOOL NAME

GGES JASSIAN DISTRICT ATTOCK

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

PROJECT:
PREPARATION OF DESIGN, DRAWINGS & BOQs 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

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ATTOCK

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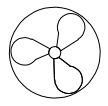
	Approved By	

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

TITLE:
APPROVED MANUFACTURE LIST

DATE	SCALE	DRG.NO.
SEP 2023		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	

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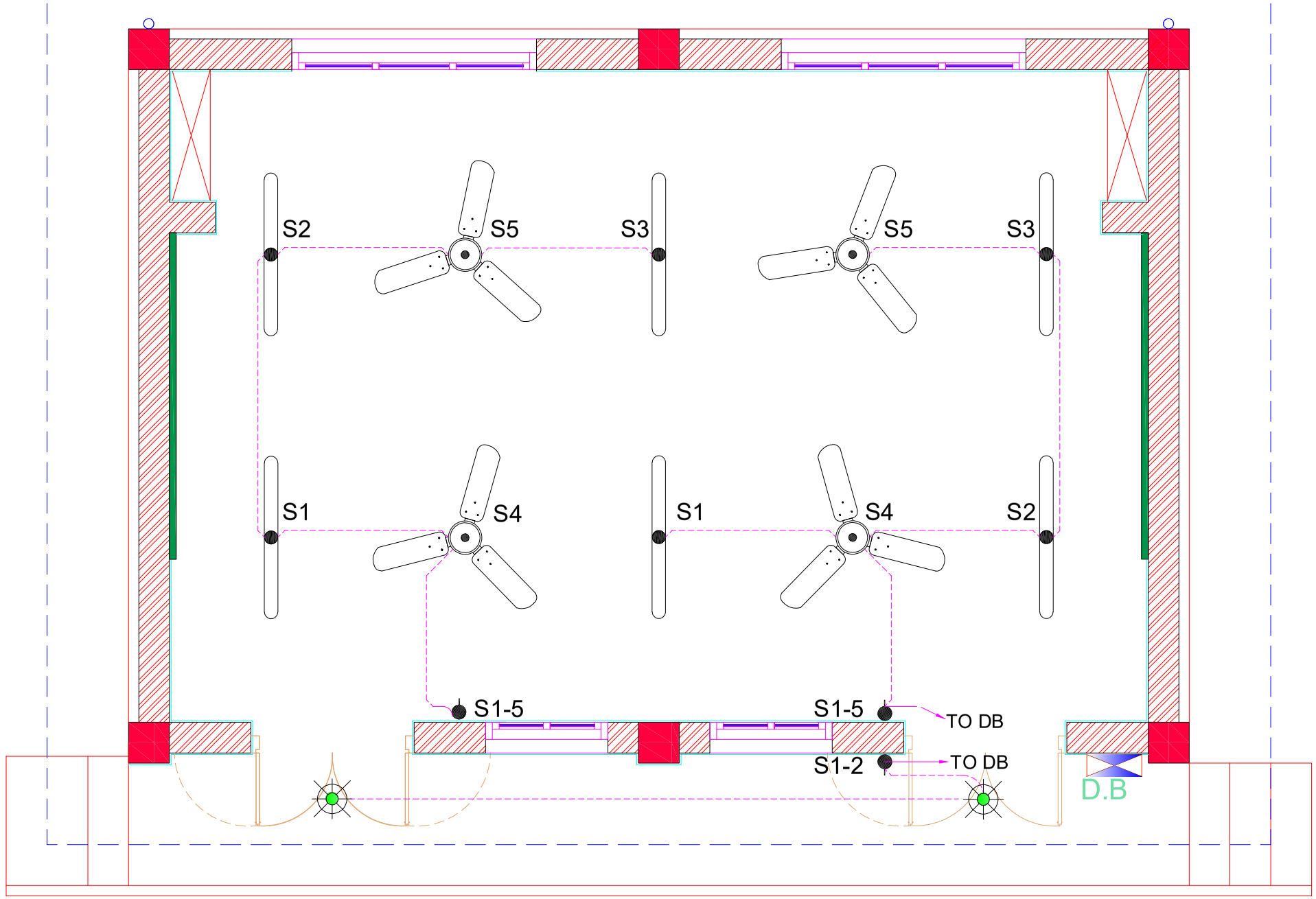
TITLE:
LEGEND

DATE	SCALE	DRG.NO.
SEP 2023		E-03



GROUND FLOOR PLAN

CLIENT:

UNHCR
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CONSULTANTS:

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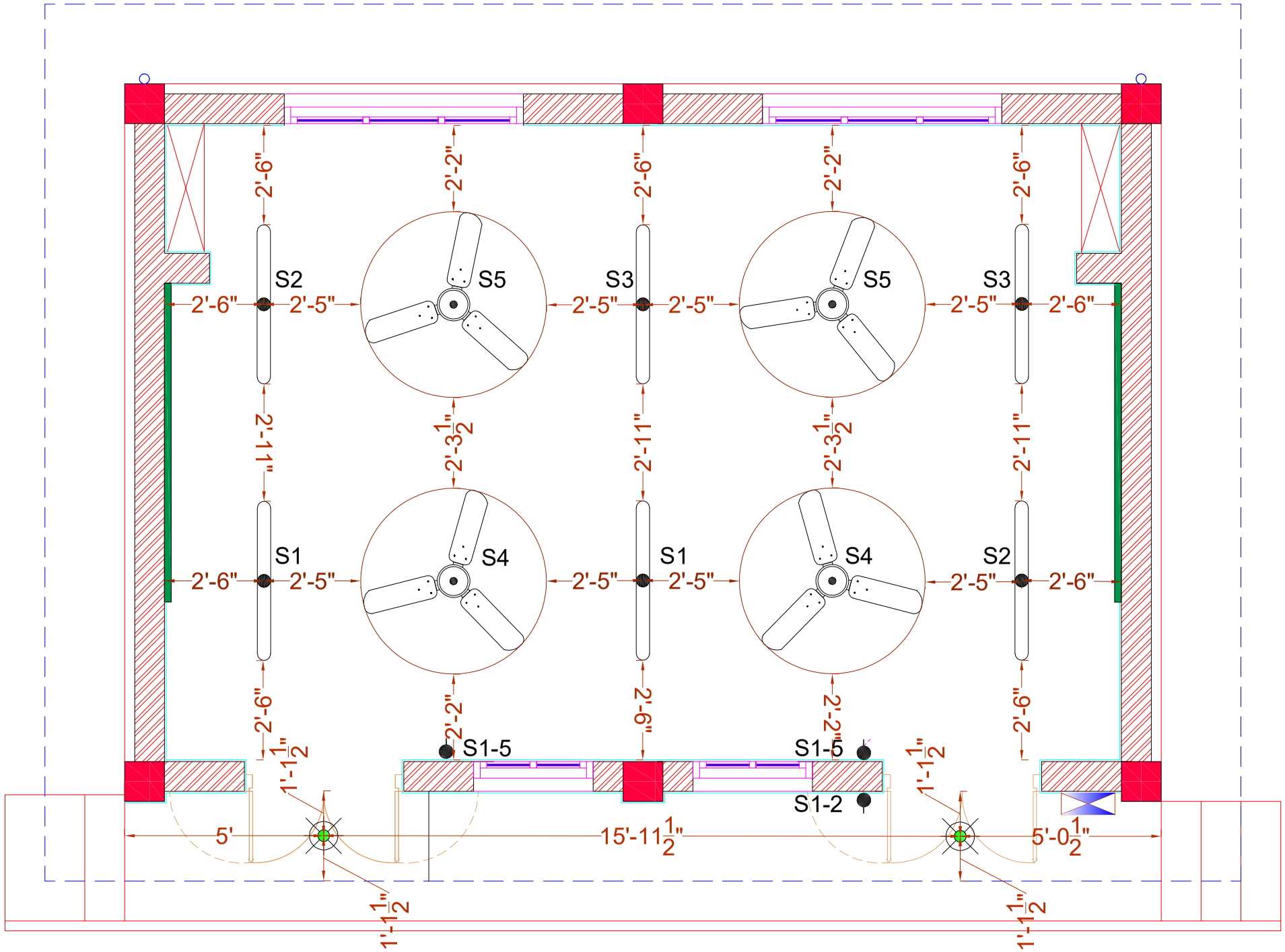
TITLE:
GROUND FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-04



GROUND FLOOR DIMENSION PLAN

CLIENT:

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CONSULTANTS:

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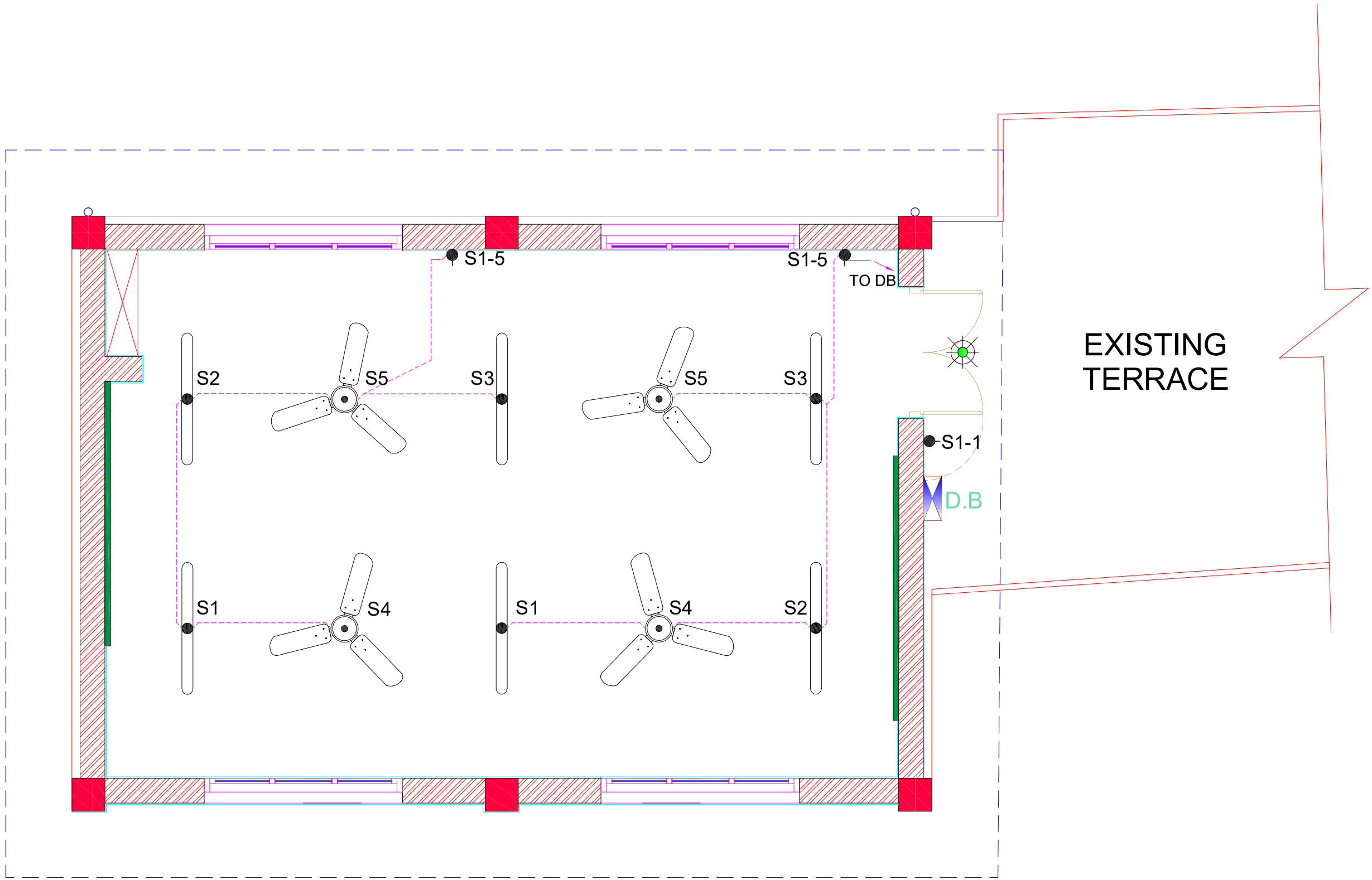
TITLE:
GROUND FLOOR DIMENSION PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-05



FIRST FLOOR PLAN

CLIENT:

UNHCR
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CONSULTANTS:

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ATTOCK

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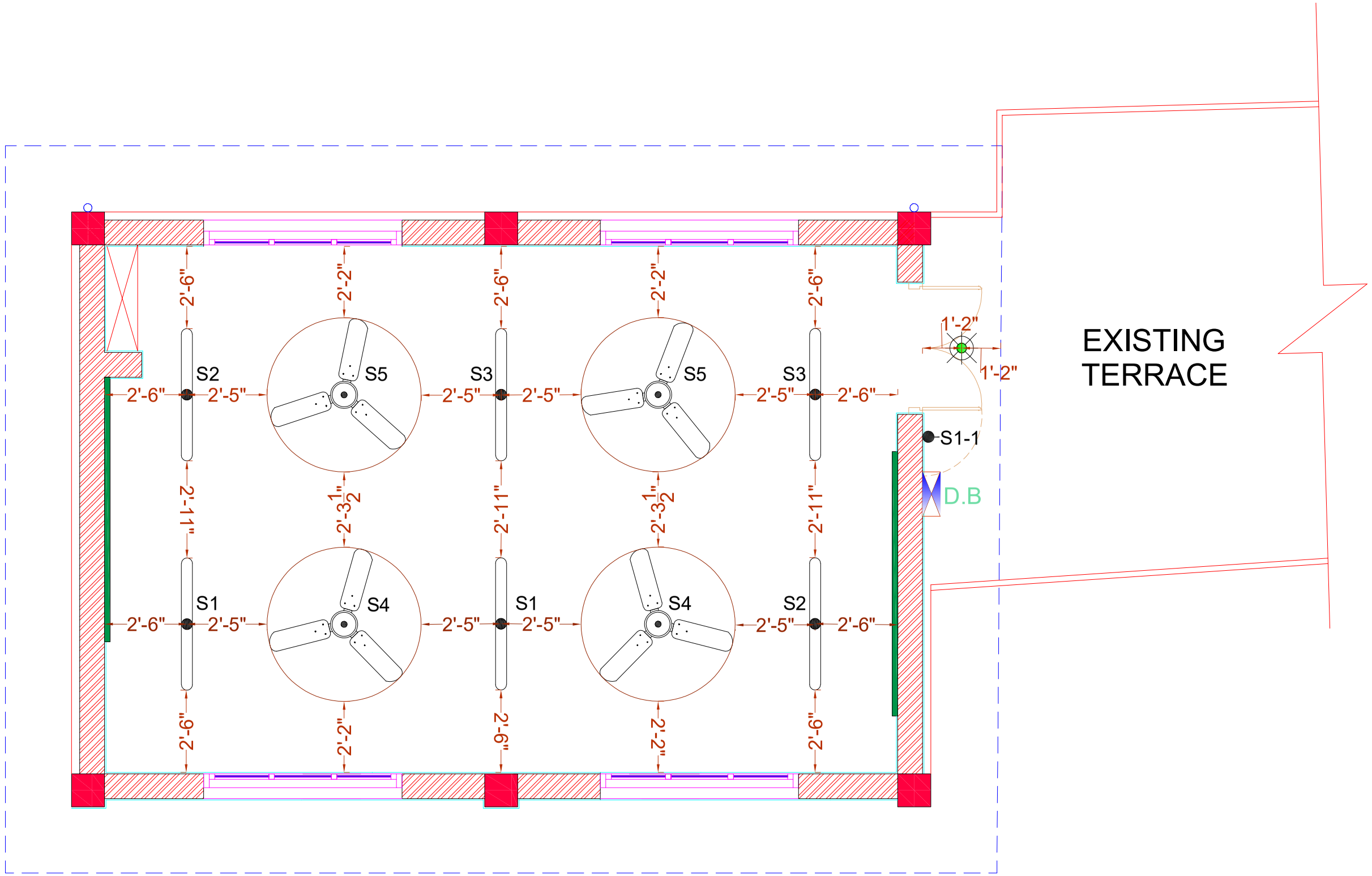
	Designed By	ELECTRICAL ENGINEER : Engr. HAMMAD AHMAD
	Checked By	
	Approved By	

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

TITLE:
FIRST FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-06



FIRST FLOOR DIMENSION PLAN

CLIENT:

UNHCR
The UN Refugee Agency

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

GGES JASSIAN DISTRICT
ATTOCK

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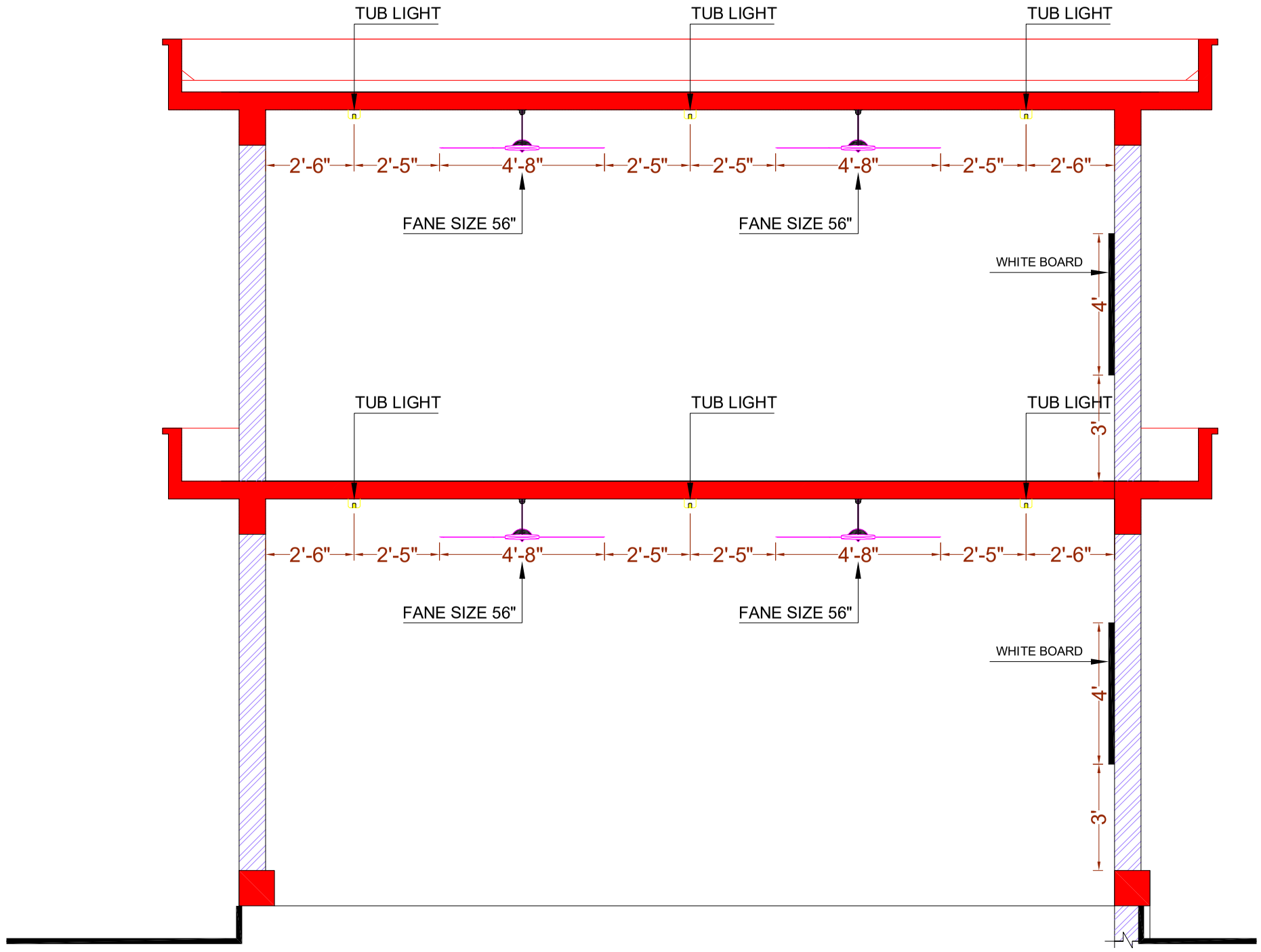
DATE	SCALE	DRG.NO.
SEP 2023		E-07



SECTION

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The UN Refugee Agency

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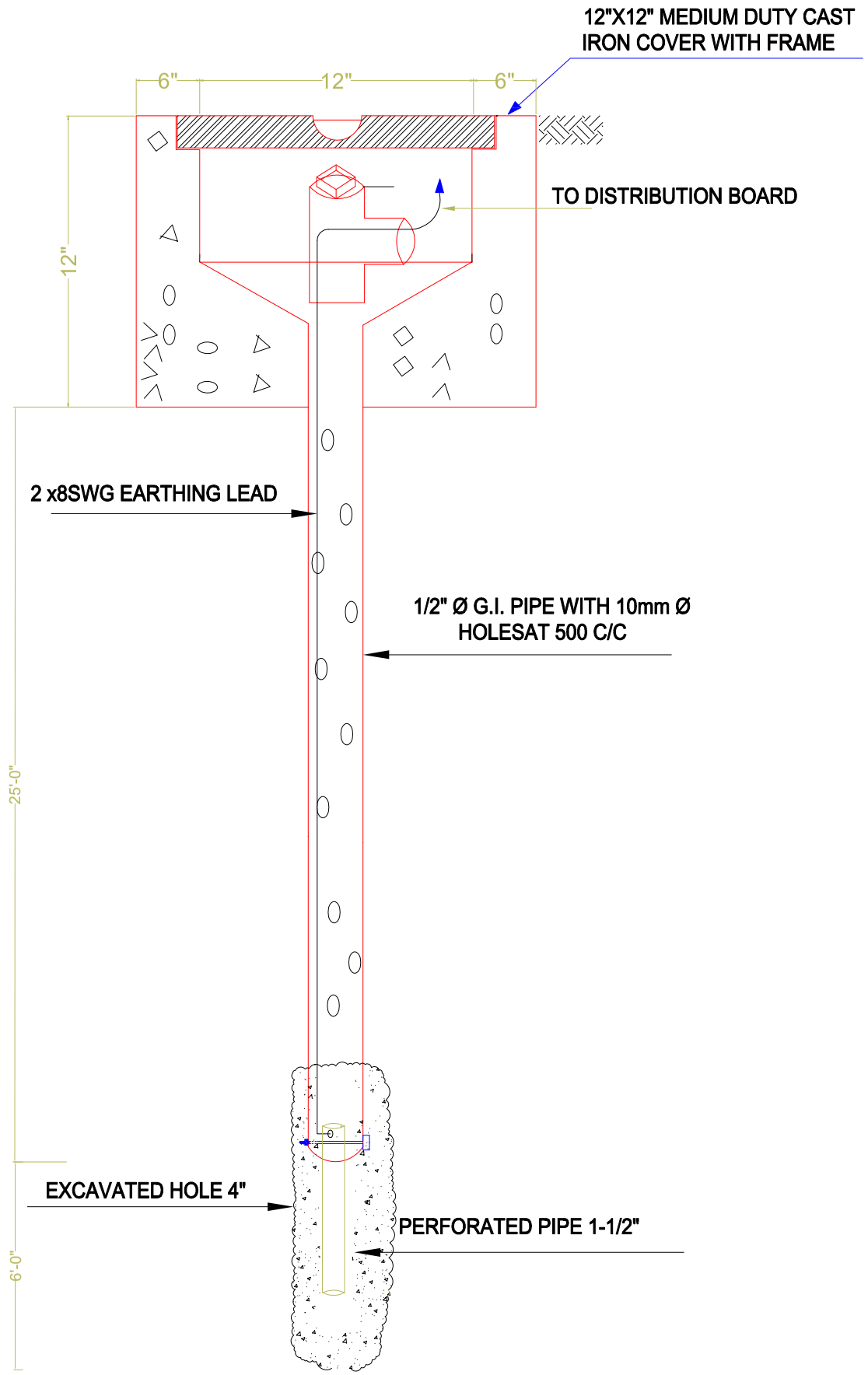
TITLE:
SECTION

DATE	SCALE	DRG.NO.
SEP 2023		E-08



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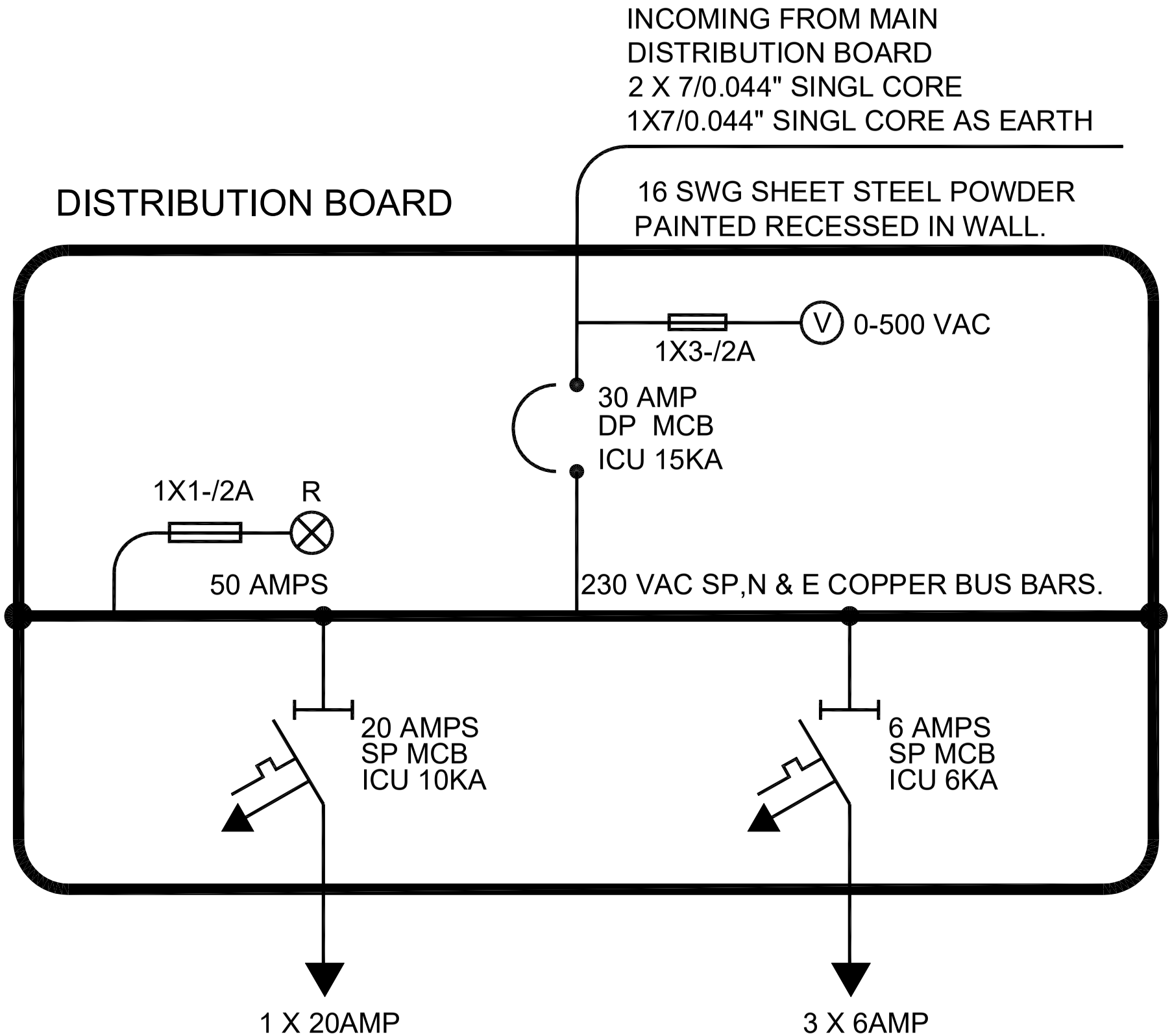
TITLE:
EARTHING DETAIL PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-09



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PROJECT:
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TITLE:
MAIN DISTRIBUTION BOARD

DATE	SCALE	DRG.NO.
SEP 2023		E-10

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

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TITLE:
LOAD CALCULATION

DATE	SCALE	DRG.NO.
SEP 2023		E-11

PROPOSED DESIGN
OF
REHAB WORKS
AT
GGES JASSIAN
DISTRICT ATTOCK

UNHCR
The UN Refugee Agency

PLANNERS CONSULTANTS ENGINEERS (PCE)
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LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

SR.NO	DESCRIPTION	DRG. NO.
1	GROUND FLOOR PLAN	A-01
2	FRONT ELEVATION	A-02
3	SECTION AT B-B	A-03
4	SECTION AT C-C	A-04
5	SCHEDULE OF OPENING	A-05
6	VENTILATOR PROJECTION	A-06
7	P.C.C FLOORING	A-07

STRUCTURAL DRAWINGS

8	GENERAL NOTES	S-01
9	GENERAL NOTES	S-02
10	FOUNDATION PLAN	S-03
11	SECTION AT 1-1	S-04
12	GROUND FLOOR LINTEL BEAM PLAN	S-05
13	GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN	S-06
14	GROUND FLOOR SLAB TOP REINFORCEMENT PLAN	S-07
15	LINTEL BEAM DETAIL	S-08

PLUMBING DRAWINGS

SR.NO	DESCRIPTION	DRG. NO.
16	GENERAL NOTES	P-01
17	GROUND FLOOR PLUMBING PLAN	P-02
18	SEPTIC TANK PLAN	P-03

WATER SUPPLY DRAWINGS

19	LEGEND	WS-01
20	GROUND FLOOR WATER SUPPLY PLAN	WS-02

ELECTRICAL DRAWINGS

21	GENERAL NOTES	E-01
22	APPROVED MANUFACTURE LIST	E-02
23	LEGEND	E-03
24	GROUND FLOOR PLAN	E-04
25	GROUND FLOOR DIMENSION PLAN	E-05

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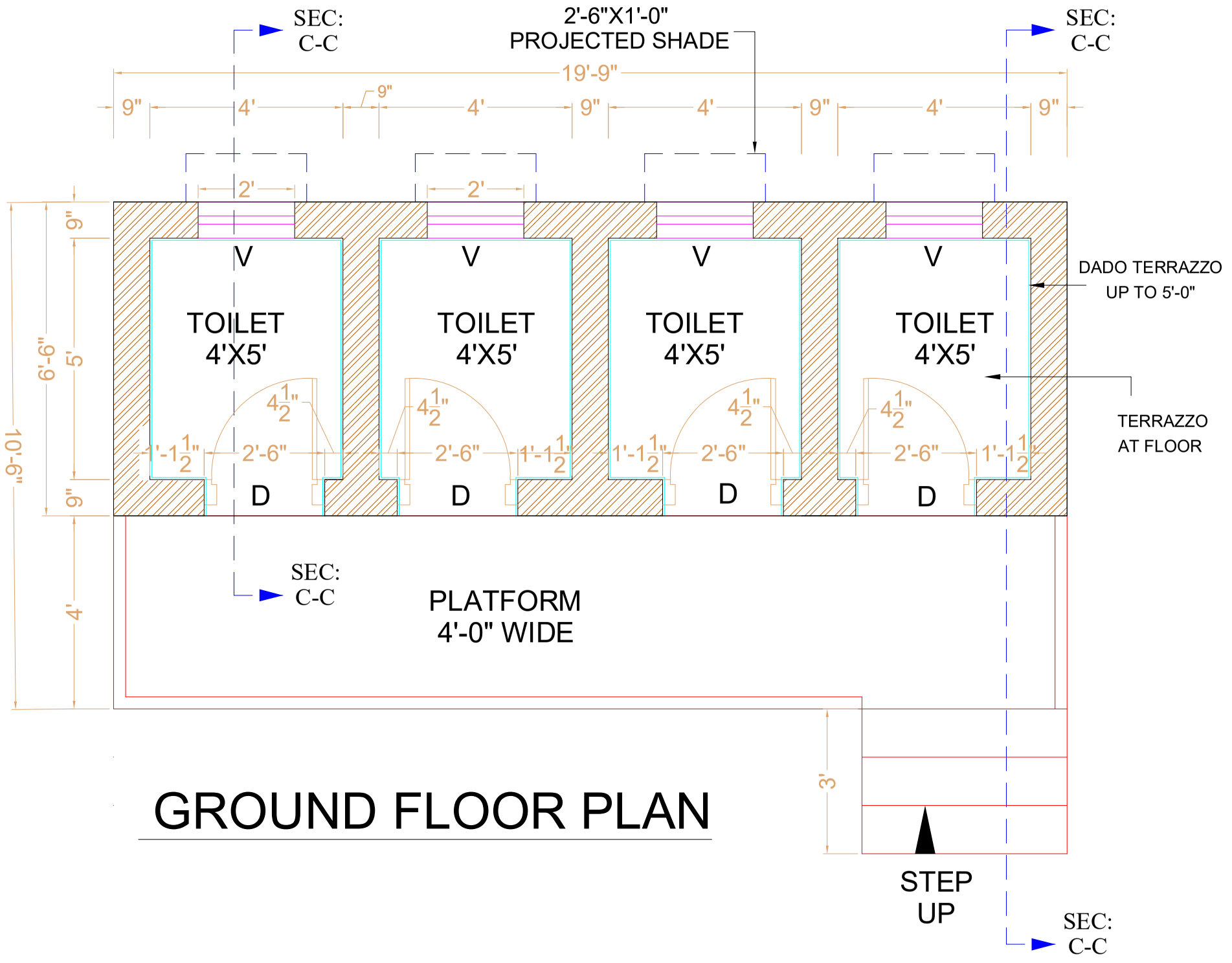
TITLE:
LIST OF DRAWINGS

DATE	SCALE	DRG.NO.
SEP 2023		A-00



GROUND FLOOR PLAN

CLIENT:

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

TITLE:
GROUND FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		A-01

FRONT ELEVATION

CLIENT:

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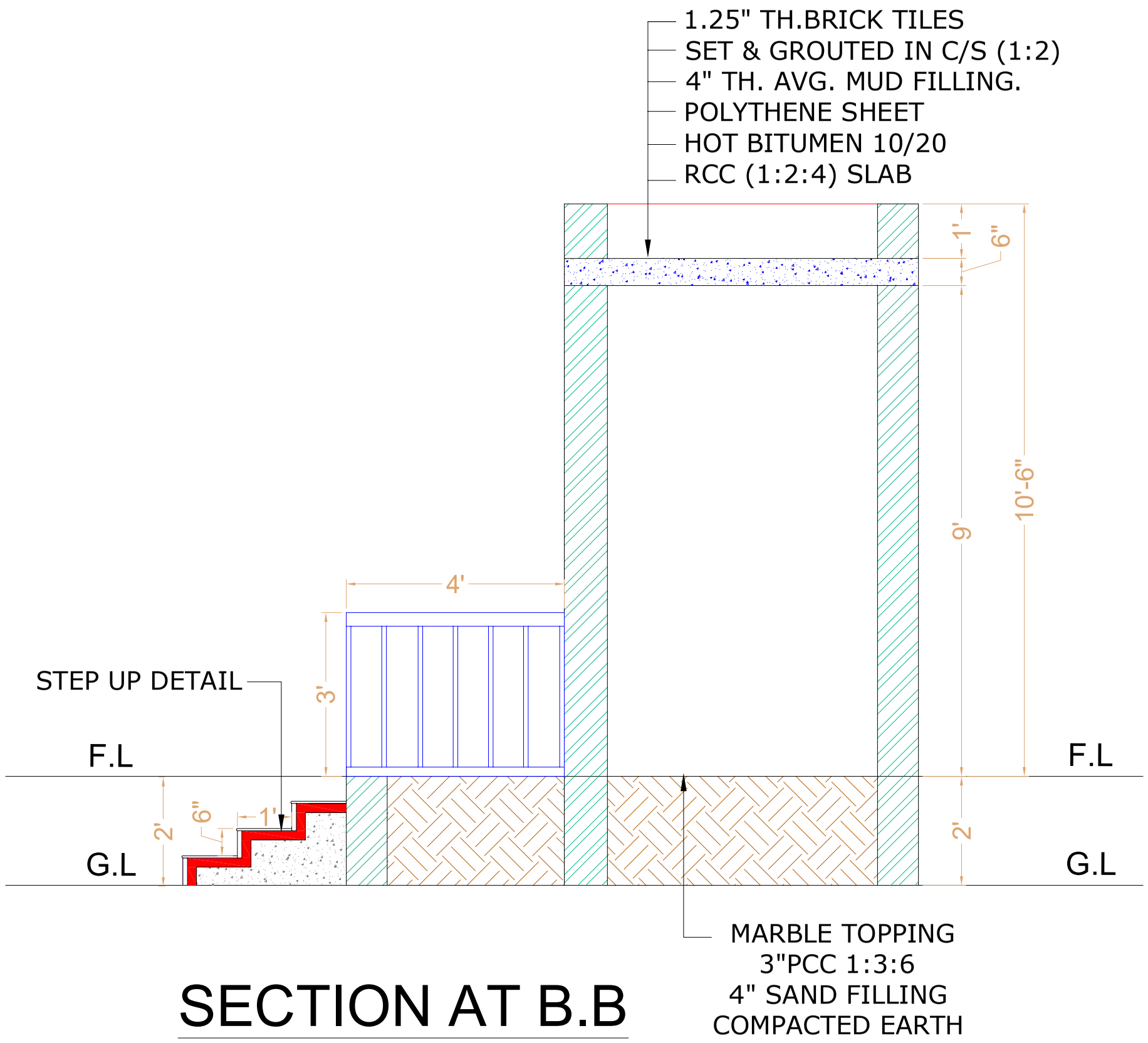
TITLE:
FRONT ELEVATION

DATE	SCALE	DRG.NO.
SEP 2023		A-02



SECTION AT B.B

CLIENT:

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PROJECT:
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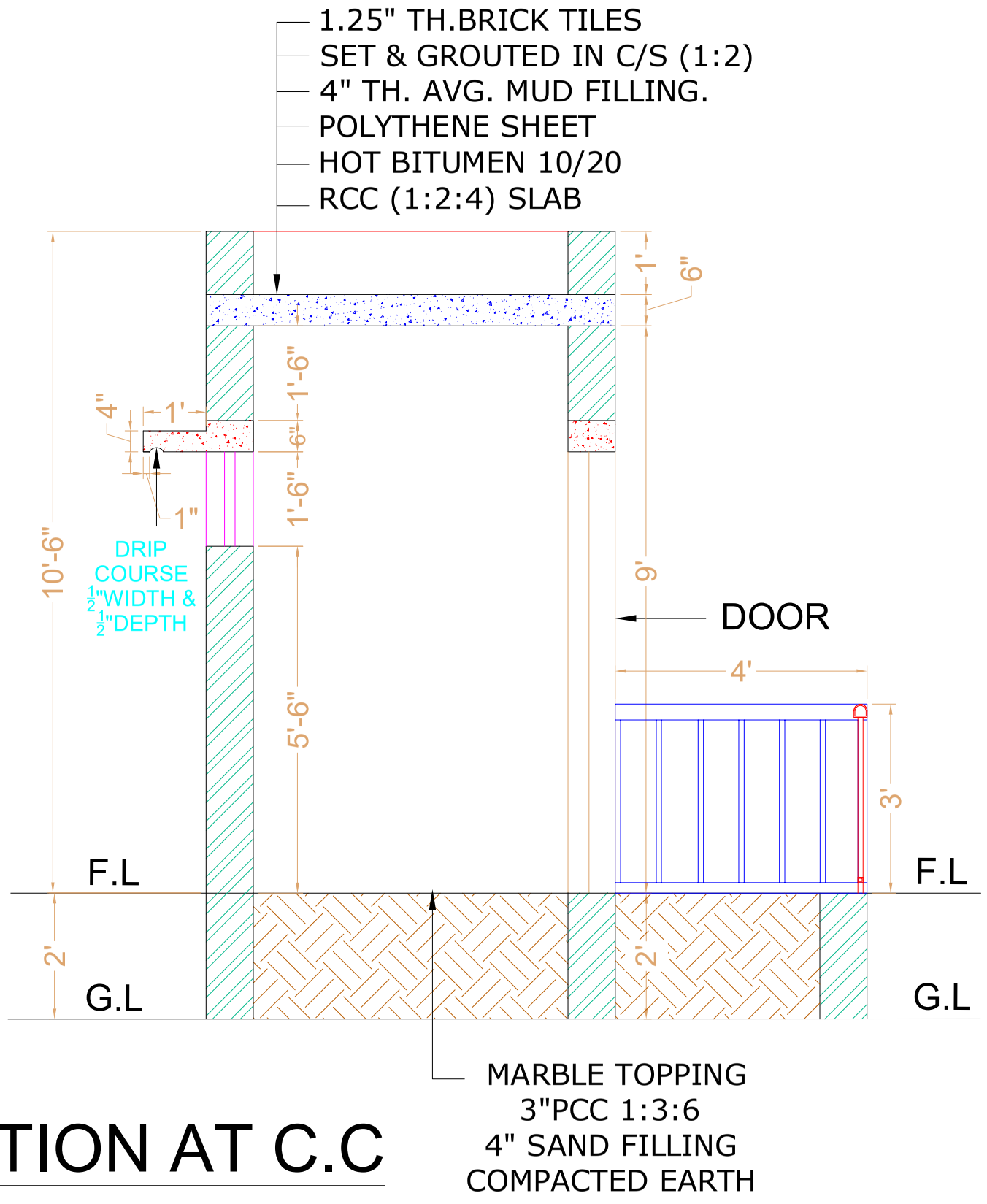
TITLE:
SECTION AT B.B

DATE	SCALE	DRG.NO.
SEP 2023		A-03



SECTION AT C.C

CLIENT:

UNHCR
The UN Refugee Agency

CONSULTANTS:

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

TITLE:
SECTION AT C.C

DATE	SCALE	DRG.NO.
SEP 2023		A-04

SCHEDULE OF OPENING

TYPE	SIZE	S-LEVEL	DESCRIPTION
D	2'-6" X 7'-0"	0"-0"	STEEL
V	2'-0" X1'-6"	5'-6"	STEEL

CLIENT:

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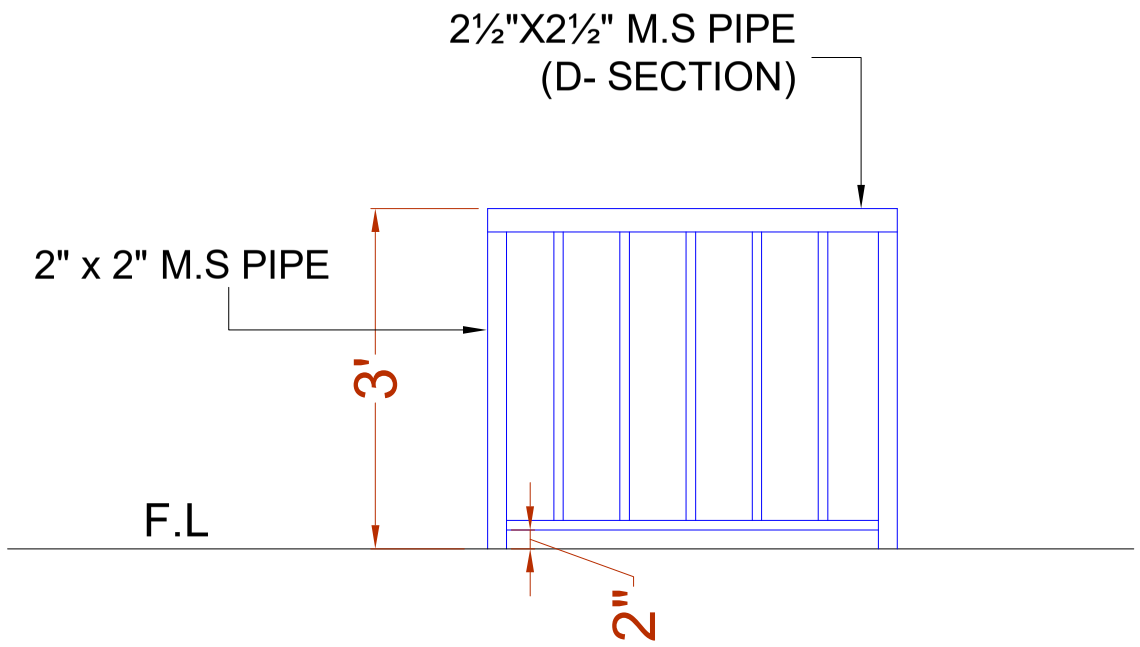
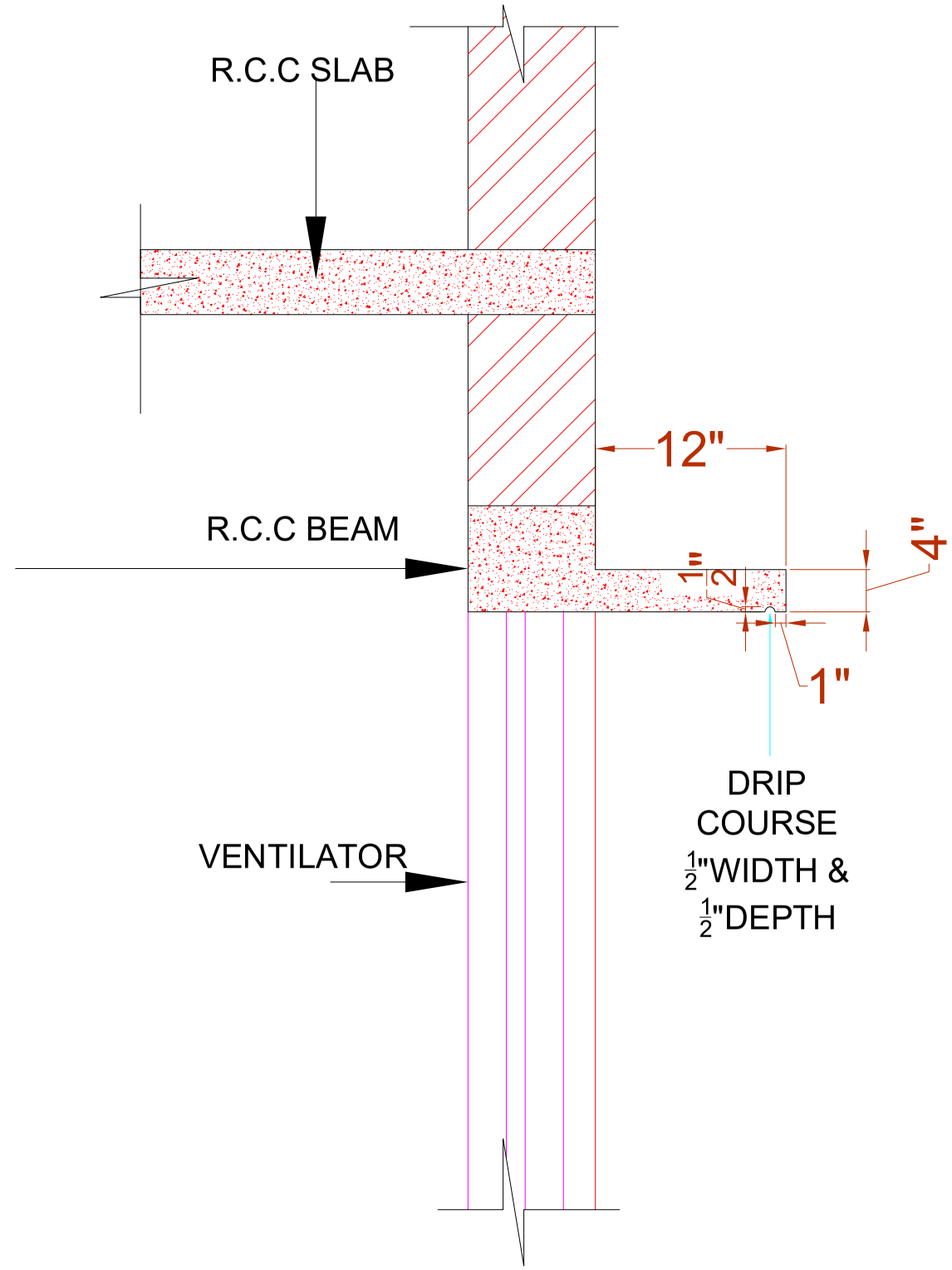
TITLE:
SCHEDULE OF OPENING

DATE	SCALE	DRG.NO.
SEP 2023		A-05



RAILING DETAILS



VENTILATOR
PROJECTION &
DRIP COURSE DETAIL

CLIENT:

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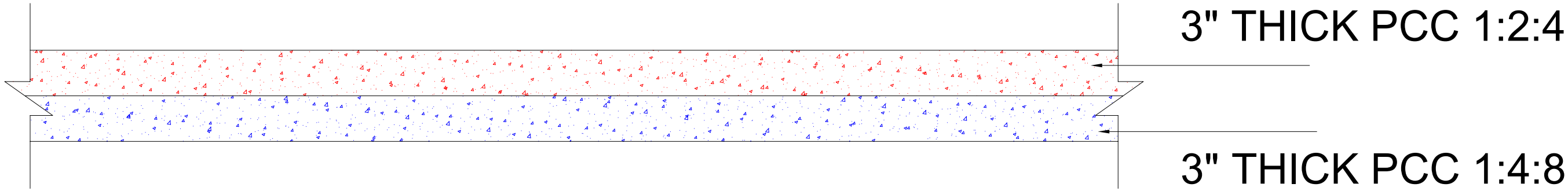
TITLE:
VENTILATOR
PROJECTION &
DRIP COURSE DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		A-06



P.C.C FLOORING

400.SFT

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DATE	SCALE	DRG.NO.
SEP 2023		A-07

STRUCTURE DRAWINGS OF
REHAB WORKS AT
GGES JASSIAN
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 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 ENGINEER'S APPROVAL AND OBTAIN HIS CONTRACTOR FROM HIS RESPONSIBILITY.
17. 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) 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, C172 & 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 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 MANUFACTURER'S 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.

STRUCTURAL ELEMENT	COVER (INCHES)
FOOTINGS	2"
BEAMS	1½"
COLUMNS	1½"
SLABS	3/4"
WALLS	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, 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
4. CLEAR COVER TO REINFORCEMENT SHALL BE: (inches)

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/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 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 CONFIRM 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

CONSULTANTS:

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SCHOOL NAME

REHAB WORKS AT
GGES JASSIAN
DISTRICT ATTOCK

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

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

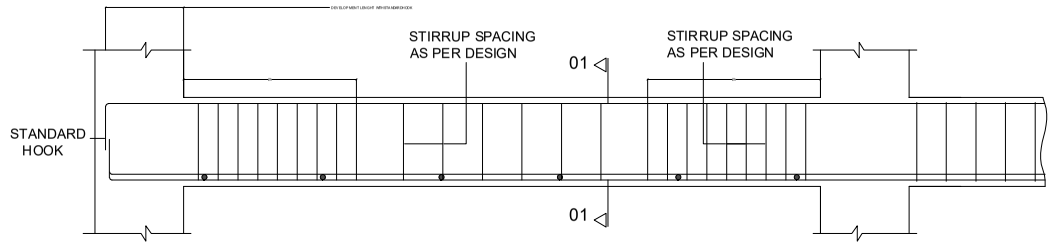
TITLE:
GENERAL NOTES

DATE	SCALE	DRG.NO.
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



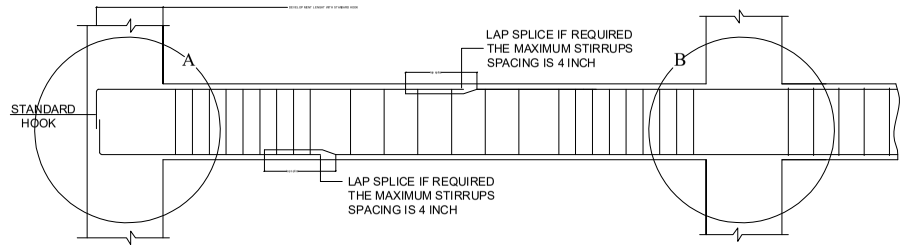
TYPICAL BEAM DETAIL

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)

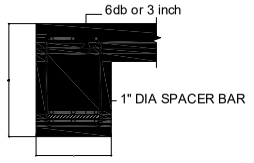
BAR DIA	DEVELOPMENT LENGTH (INCHES) fc' = 4,000 psi fy = 60,000 psi	
	STRAIGHT BARS	WITH STANDARD HOOK
3/8"	18	7.5
1/2"	24	9.5
3/4"	30	14.5
1"	48	19

SPLICE LENGTH (ACI 21.3.2.4, Class B Splice)

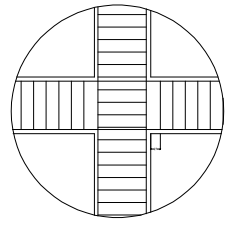
BAR DIA	MINIMUM SPLICE LAP LENGTH (INCHES) fc' = 3,000 psi fy = 40,000 psi	
	TENSION	COMPRESSION
3/8"	15	-
1/2"	20	9
3/4"	30	15
1"	48	18



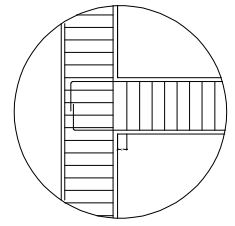
TYPICAL BEAM DETAIL



SECTION 01



DETAIL A



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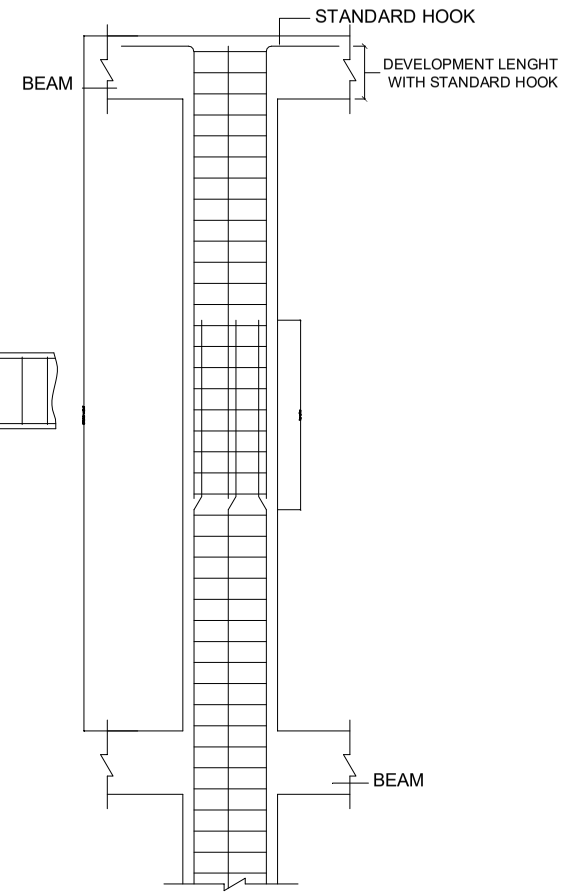

TYPICAL COLUMN DETAIL

DEVELOPMENT LENGTH IN TENSION (ACI 21.5.4.1)

BAR DIA	DEVELOPMENT LENGTH (INCHES) fc' = 3,000 psi fy = 60,000 psi	
	STRAIGHT BARS	WITH STANDARD HOOK
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) fc' = 3,000 psi fy = 60,000 psi	
	SLAB	BEAM / COLUMN
1/2"	25	35
5/8"	-	44
3/4"	-	55
1"	-	70

CLIENT:

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CONSULTANTS:

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SCHOOL NAME

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GGES JASSIAN
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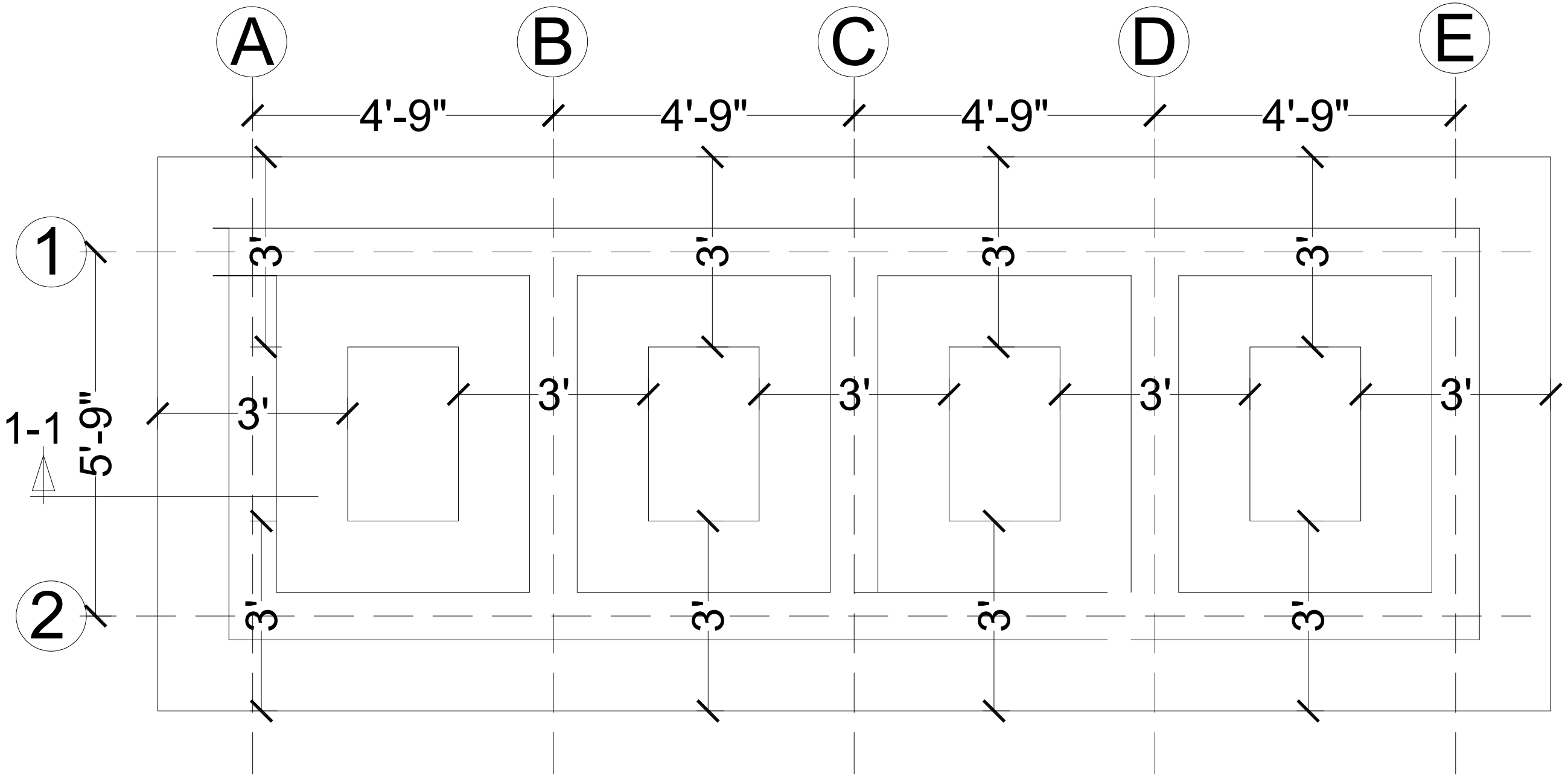
	Designed By	STRUCTURE ENGINEER : Engr. HUMZA AHMAD
	Checked By	
	Approved By	

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

TITLE: GENERAL NOTES

DATE	SCALE	DRG.NO.
SEP 2023		S-02



FOUNDATION PLAN

CLIENT:

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TITLE:
FOUNDATION PLAN

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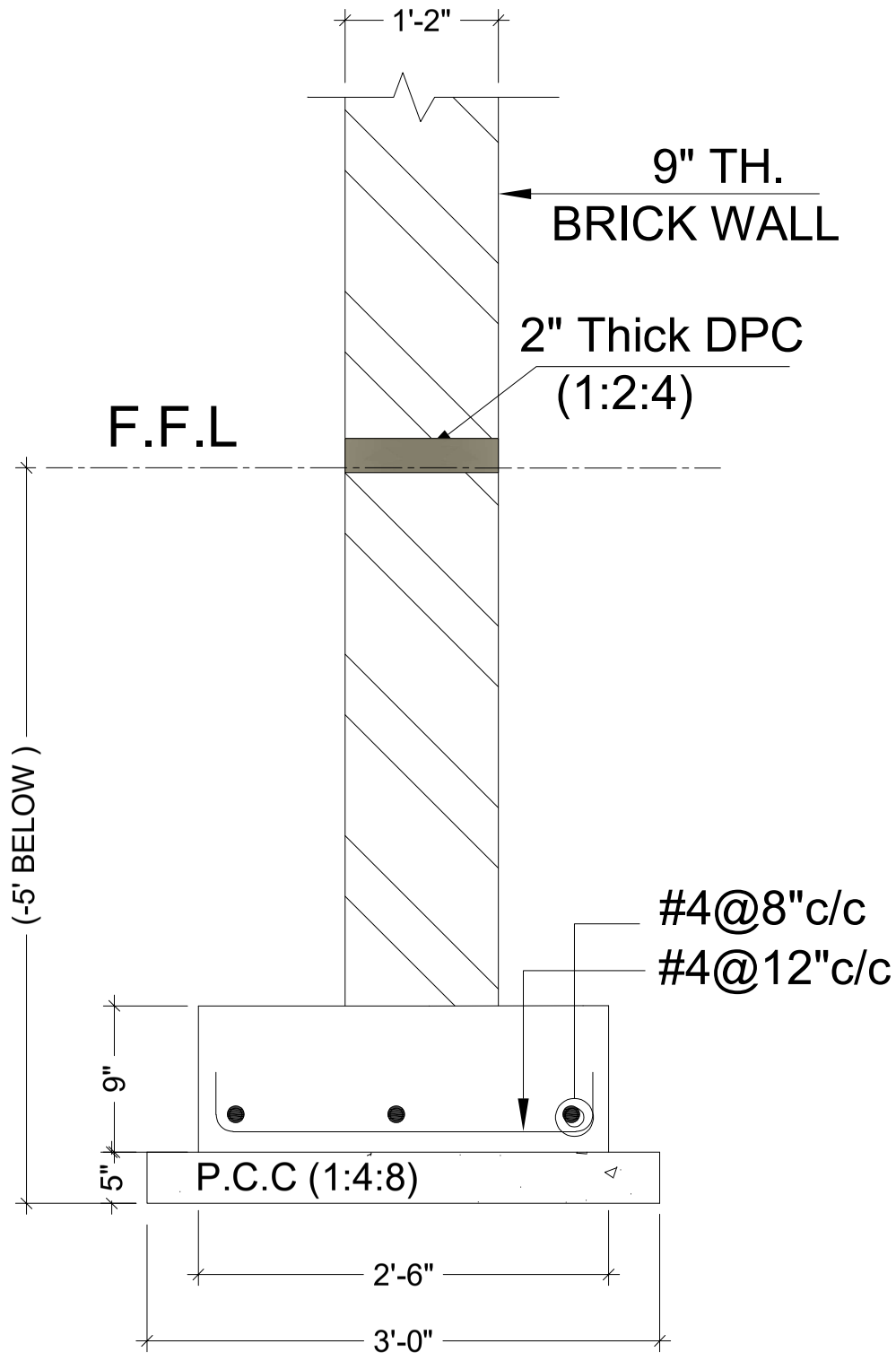
SEP 2023		S-03



SECTION 1-1

CLIENT:

UNHCR
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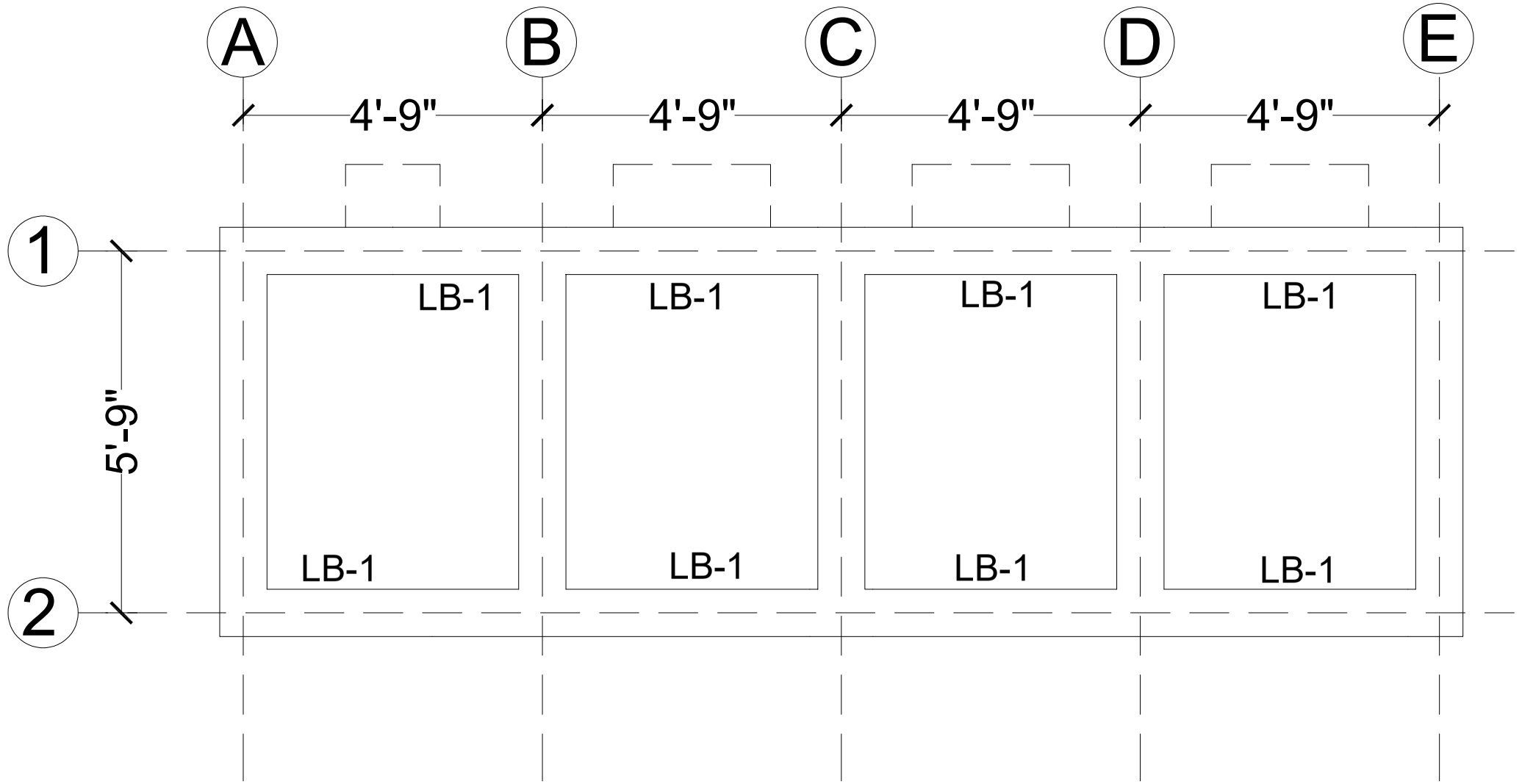
TITLE:
SECTION AT 1-1

DATE	SCALE	DRG.NO.
SEP 2023		S-04



GROUND FLOOR LINTEL BEAM PLAN

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

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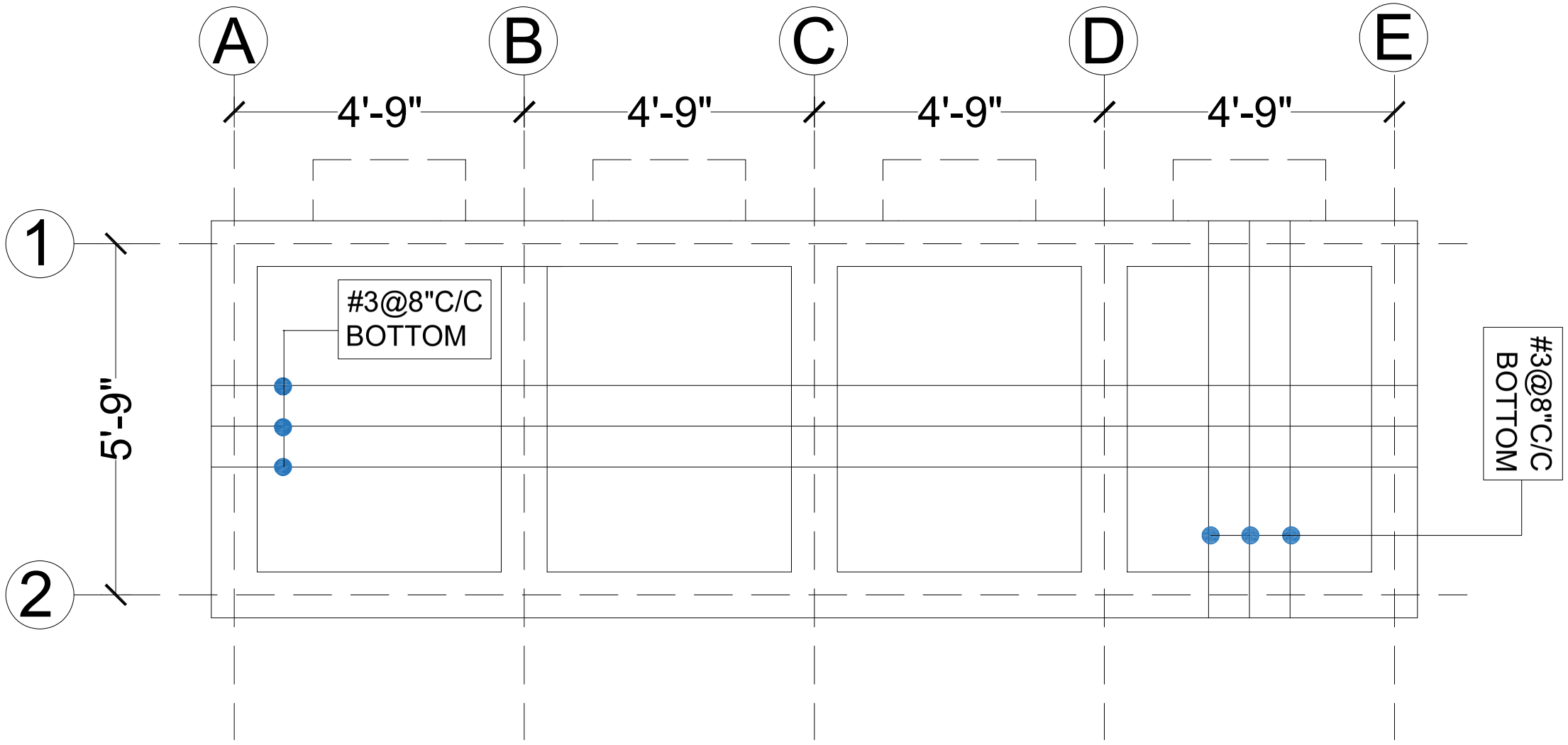
TITLE:
GROUND FLOOR LINTEL BEAM PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-5



GROUND FLOOR SLAB BOTTOM REINFORCEMENT PLAN

NOTE :
SLAB THICKNESS = 5"

CLIENT:
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The UN Refugee Agency

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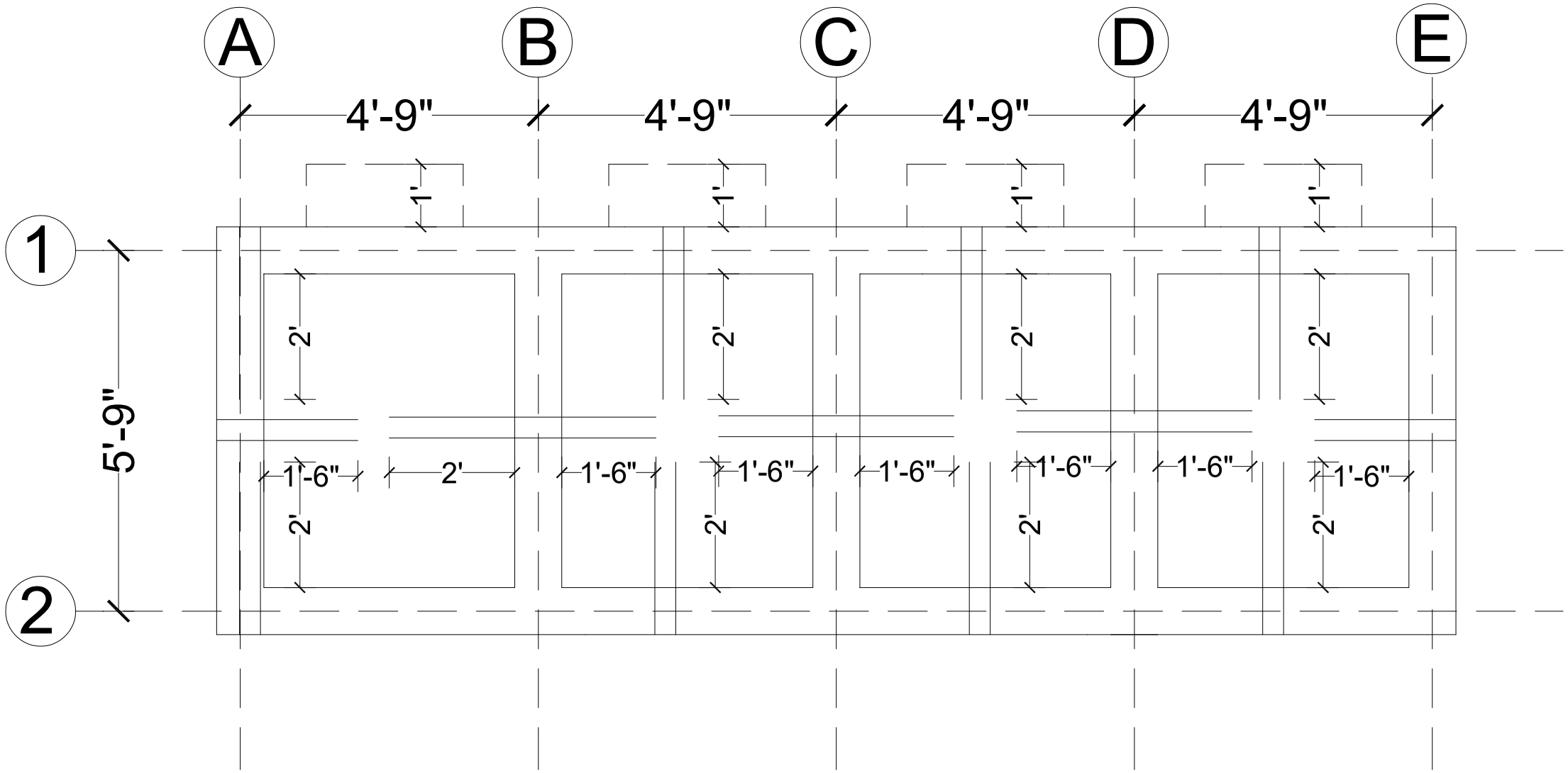
TITLE:
GROUND FLOOR SLAB BOTTOM
REINFORCEMENT PLAN

DATE	SCALE	DRG.NO.
SEP 2023		S-6



GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

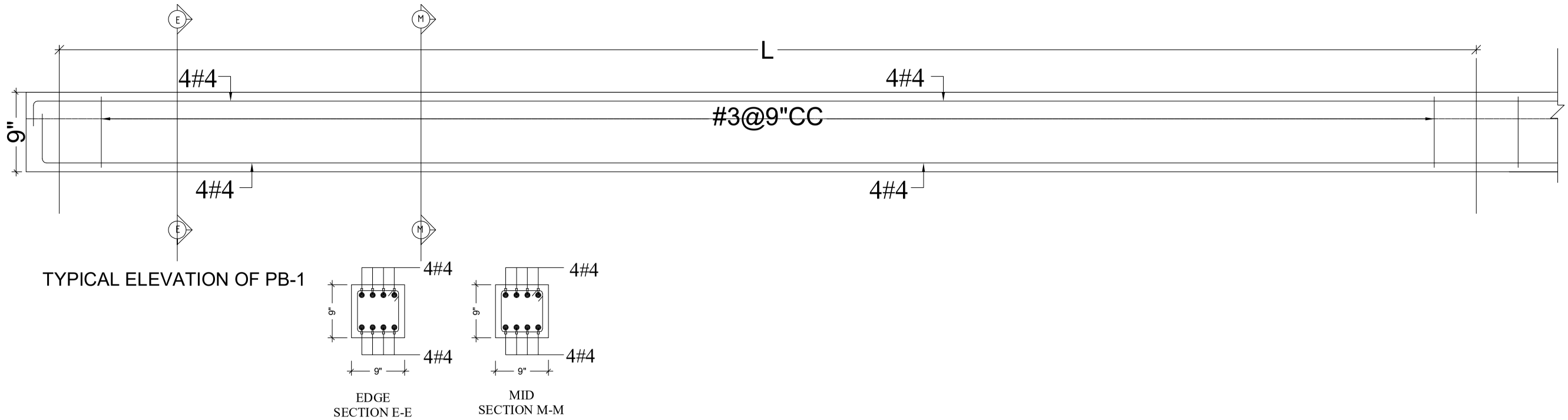
NOTE :
SLAB THICKNESS = 5"
TOP REINFORCEMENT = #4@8"C/C

CLIENT: UNHCR The UN Refugee Agency	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 AT GGES JASSIAN DISTRICT ATTOCK	Date of Revision / Prepared By: FARID KHAN, KHAN HAIDER	Designed By: STRUCTURE ENGINEER : Engr. HUMZA AHMAD	Checked By / Approved By

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

TITLE: GROUND FLOOR SLAB TOP REINFORCEMENT PLAN

DATE: SEP 2023 | SCALE | DRG.NO. S-7



TYPICAL ELEVATION OF PB-1

EDGE
SECTION E-E

MID
SECTION M-M

CLIENT:

UNHCR
The UN Refugee Agency

CONSULTANTS:

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

TITLE:
LINTEL BEAM DETAIL

DATE	SCALE	DRG.NO.
SEP 2023		S-8

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

	L E G E N D 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

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TITLE:
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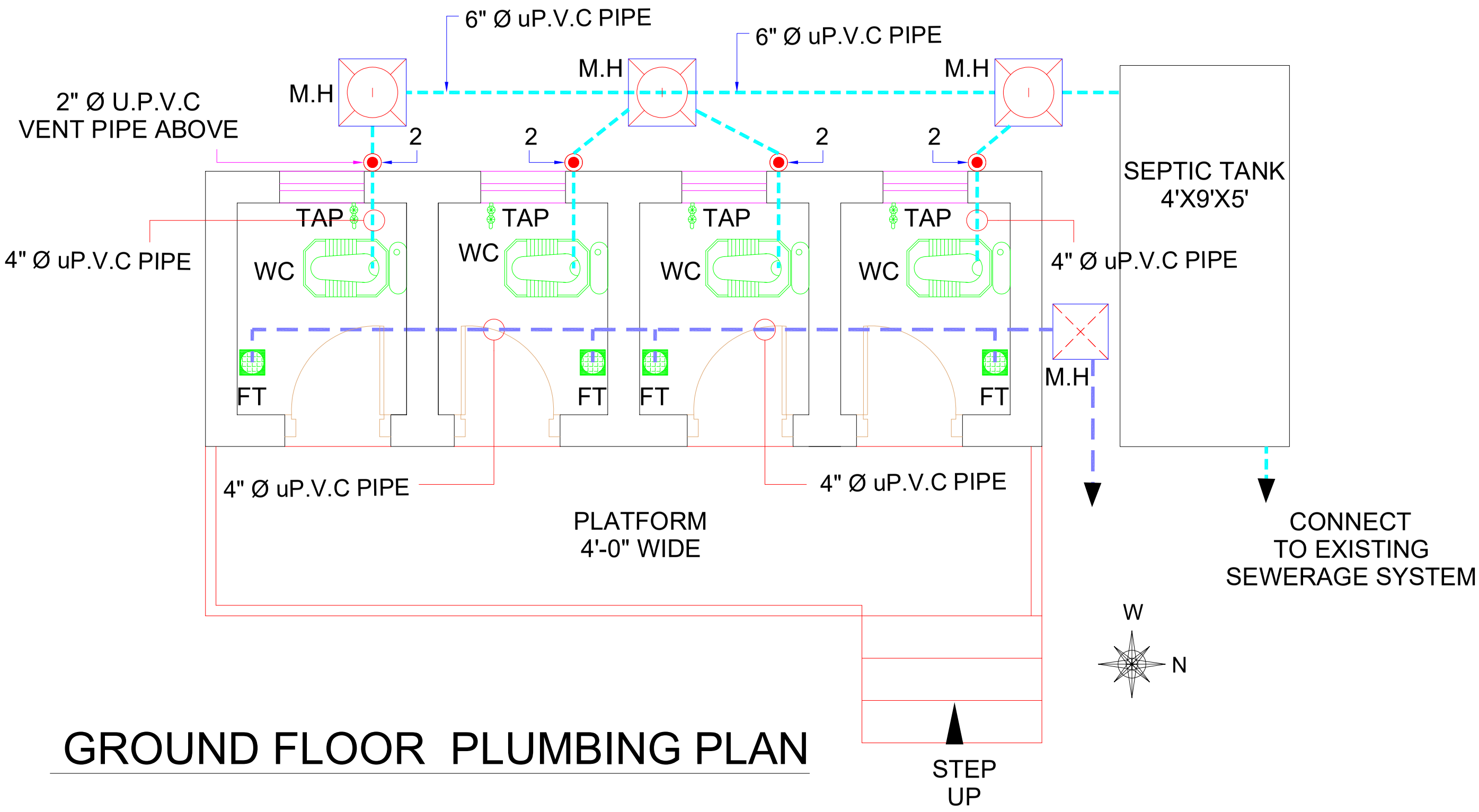

GROUND FLOOR PLUMBING PLAN

CLIENT:

UNHCR
The UN Refugee Agency

CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

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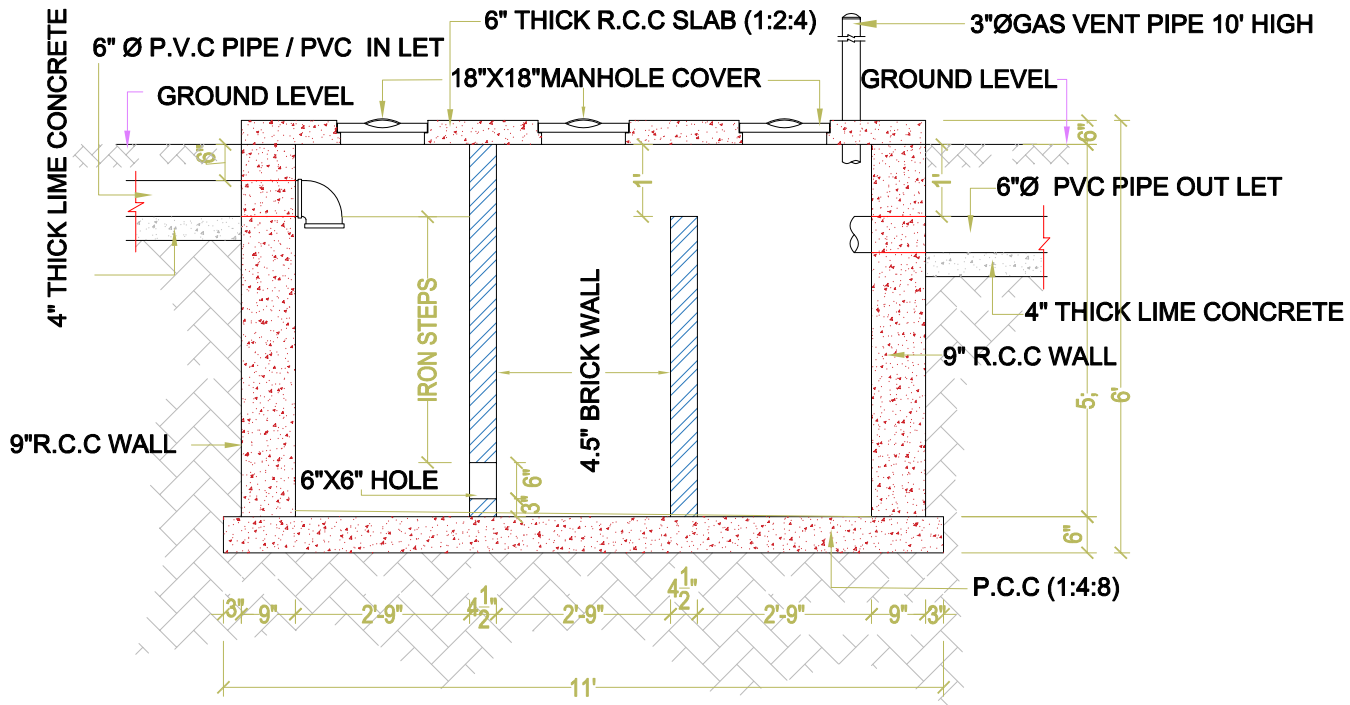
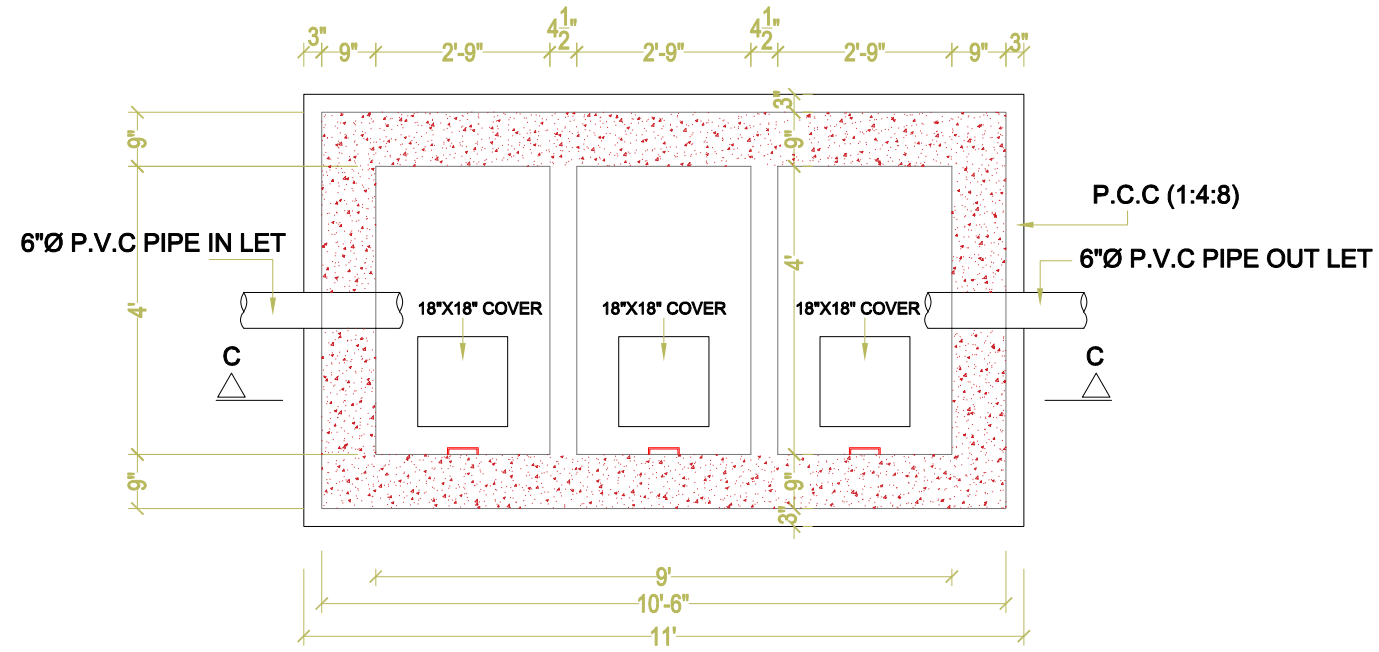
FOR CONSTRUCTION/ REHABILITATION OF SITES

TITLE:
GROUND FLOOR PLUMBING PLAN

DATE	SCALE	DRG.NO.
SEP 2023		P-02



SEPTIC TANK SECTION



SEPTIC TANK PLAN

CLIENT:

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TITLE:
SEPTIC TANK PLAN

DATE	SCALE	DRG.NO.
SEP 2023		P-03

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)
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SH	SHOWER
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OHWT	OVER HEAD WATER TANK
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TITLE:
LEGEND

DATE	SCALE	DRG.NO.
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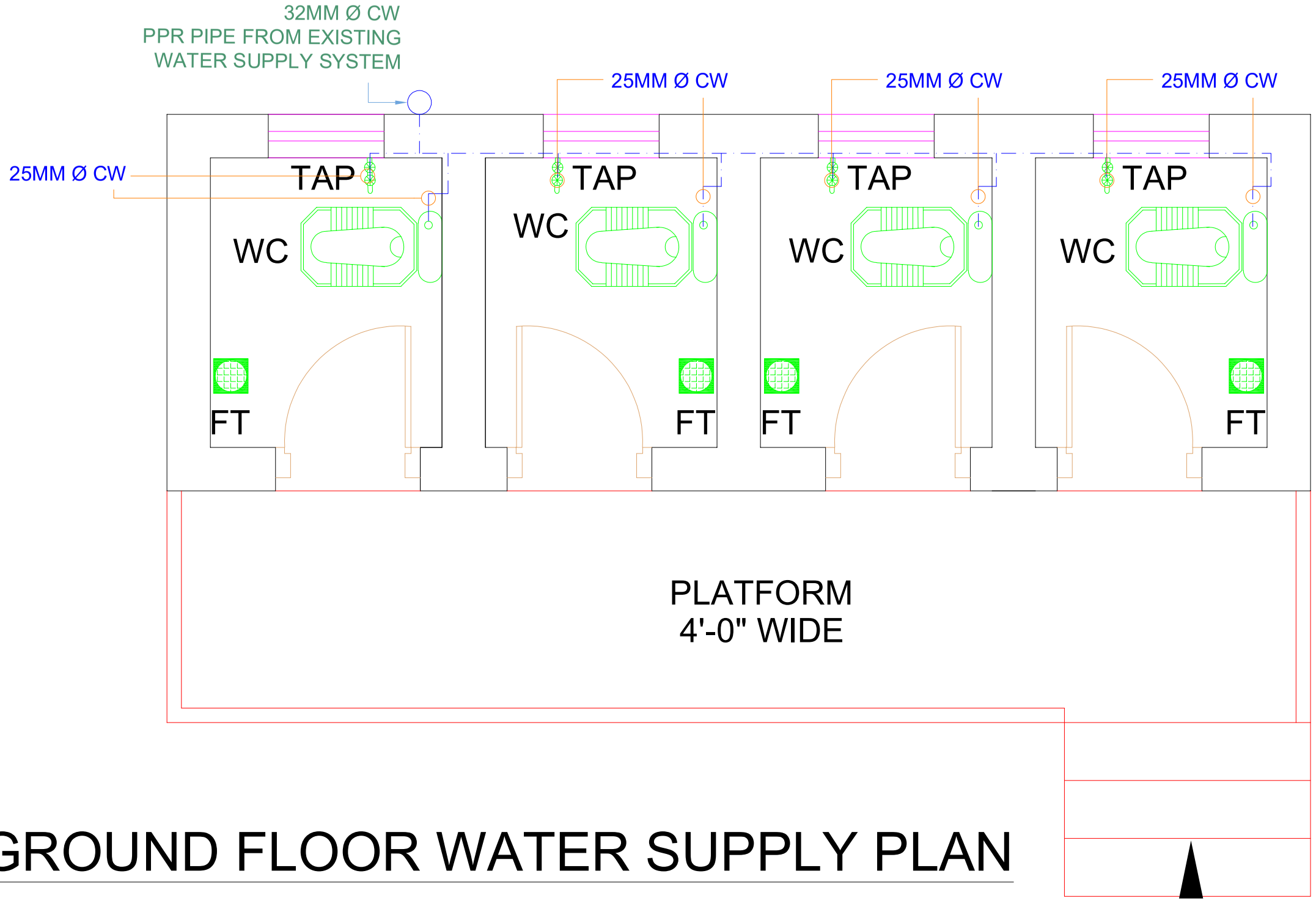

GROUND FLOOR WATER SUPPLY PLAN

CLIENT:

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CONSULTANTS:

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GROUND FLOOR WATER SUPPLY PLAN

DATE	SCALE	DRG.NO.
SEP 2023		WS-02

ELECTRIFICATION DRAWINGS
OF
REHAB WORKS
AT
GGES JASSIAN DISTRICT
ATTOCK

	ELECTRICAL DRAWINGS	
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CLIENT:

UNHCR
The UN Refugee Agency

CONSULTANTS:

PLANNERS CONSULTANTS ENGINEERS (PCE)

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SCHOOL NAME

REHAB WORKS OF
GGES JASSIAN DISTRICT
ATTOCK

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

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

TITLE:
LIST OF DRAWINGS

DATE	SCALE	DRG.NO.
SEP 2023		E-00

ELECTRICAL SYSTEMS

FOLLOWING NOTES SHELL 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 NECESSITATY ALTERATION OR DEVIATION OF THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.

2. DIMENSIONS / MLASURLMENTS 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.ARRANGMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE EXACT ARRANGMENT OF EQUIPMENT SHALL BE VADE IN VIEW OF ITS PHYSICAL DIMENTIONS AND EASY OF MAINTENANCE.

8.LOAD ON ALL PHASES SHELL BE MAXIMUM BALANCED AT THE TIME OF COMMISSIONING STAGE.IT IS RESPNSIBILITY 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 ORILERIA 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 SAVE SIZE FOR UPTO AND INCLUDING16 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 SHELL BE CARRIED OUT WITH 1 CORE FLEXIBLE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.

13.THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMAL 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 STANDER SIZE MM sqr	25 MM (1")	20 MM ($\frac{3}{4}$")	15 MM ($\frac{3}{8}$")
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 BOAD	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 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS	12 INCHES
> CEILING FAN	ON SLAB
> WALL BRACKET FAN	90 INCHES

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PCE Peshawar

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ATTOCK

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PROJECT:
PREPARATION OF DESIGN, DRAWINGS & BOQs 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

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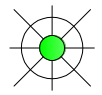
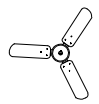
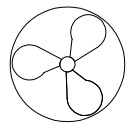
APPROVED MANUFACTURE LIST

DATE	SCALE	DRG.NO.
SEP 2023		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	

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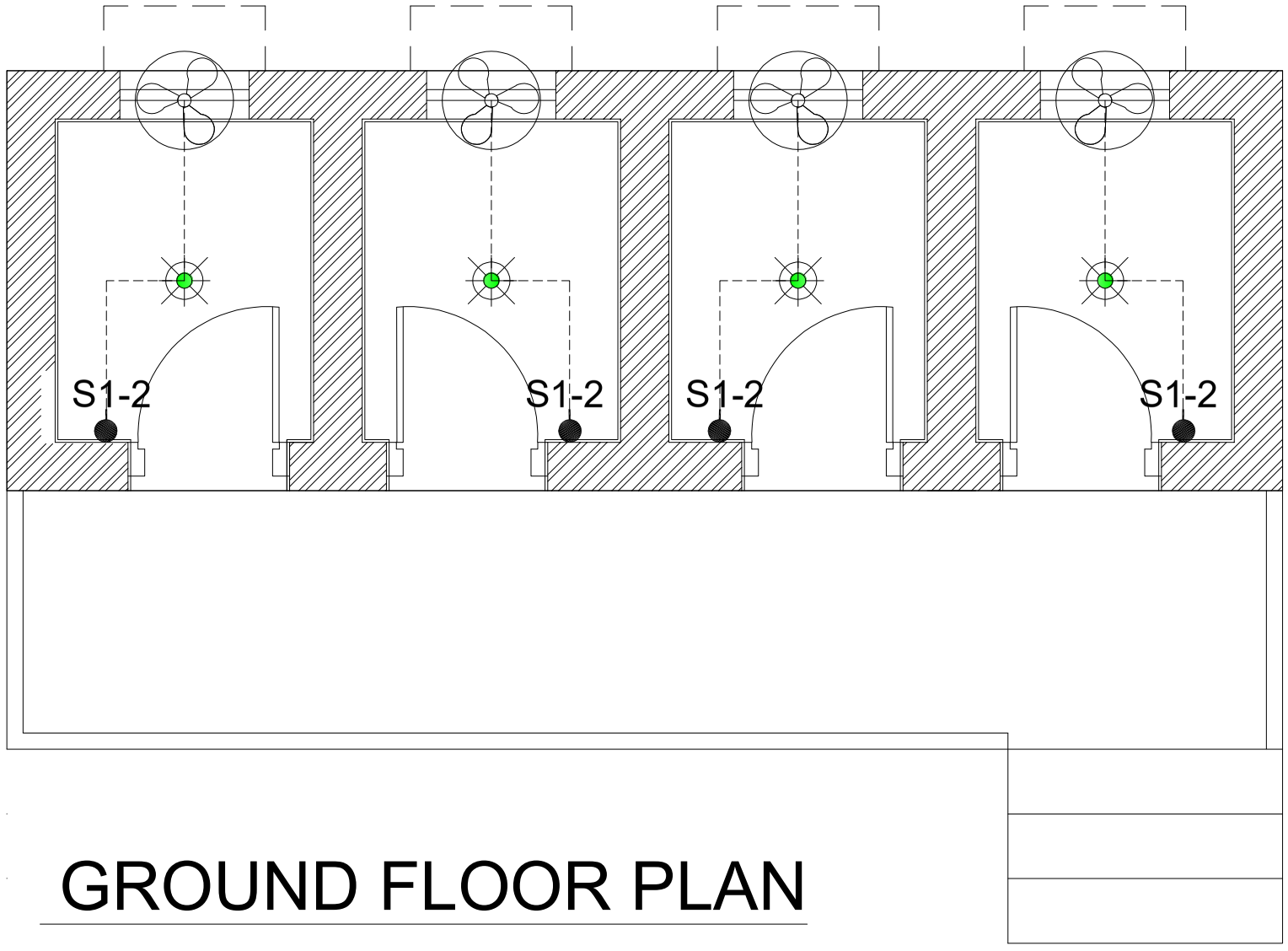
TITLE:
LEGEND

DATE	SCALE	DRG.NO.
SEP 2023		E-03



GROUND FLOOR PLAN

CLIENT:

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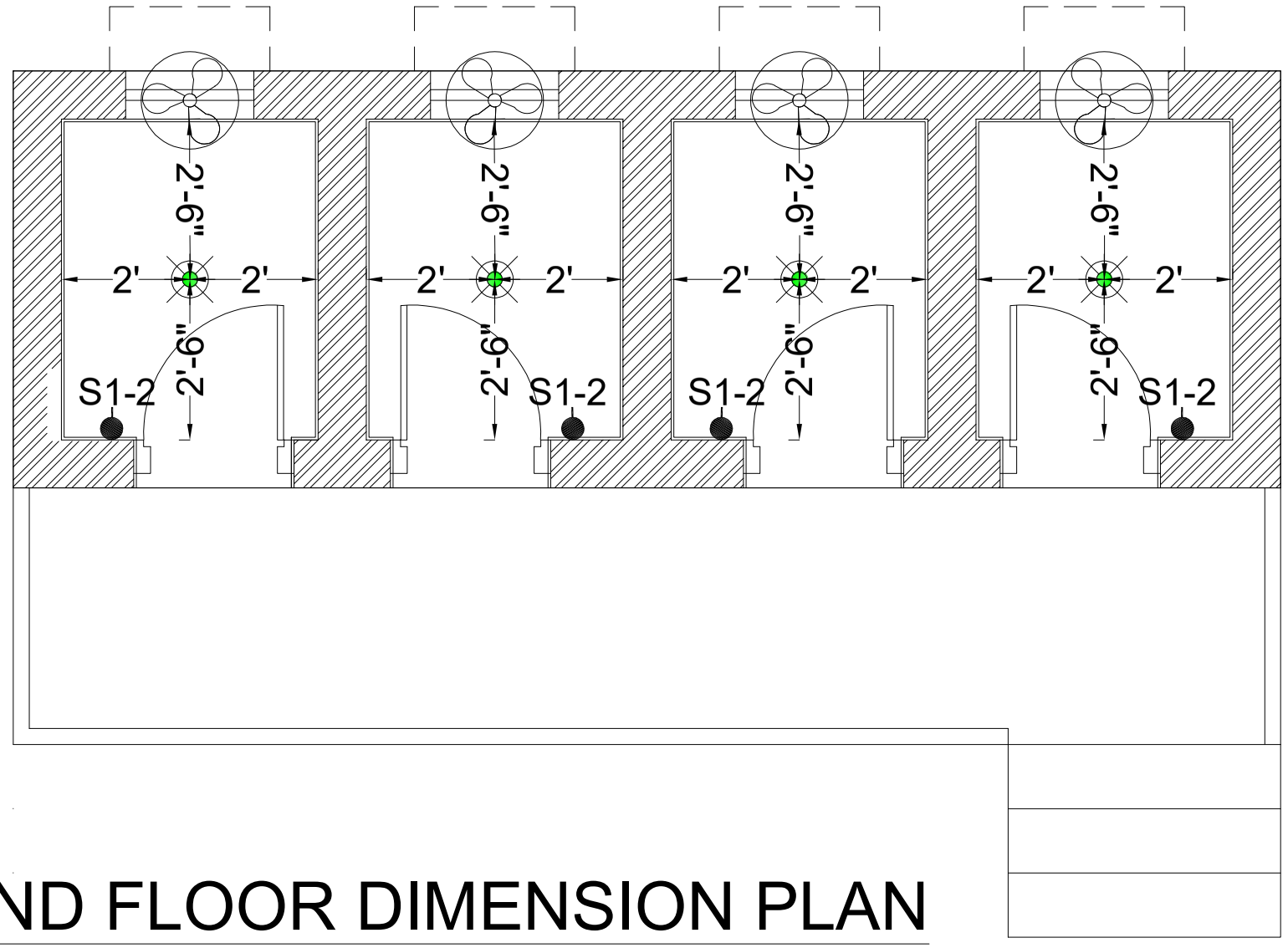
TITLE:
GROUND FLOOR PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-04



GROUND FLOOR DIMENSION PLAN

CLIENT:

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TITLE:
GROUND FLOOR DIMENSION
PLAN

DATE	SCALE	DRG.NO.
SEP 2023		E-05