

(STRUCTURAL DRAWINGS)

PROJECT MANAGEMENT UNIT
OFFICE

PAKISTAN DIGITAL CITY, HARIPUR
KHYBER PAKHTUNKHWA INFORMATION TECHNOLOGY BOARD (KPITB)
GOVERNMENT OF KHYBER PAKHTUNKHWA

DETAIL OF STRUCTURAL DRAWINGS

S01- GENERAL NOTES 1

S02- GENERAL NOTES 2

S03- FOUNDATION LAYOUT PLAN

S03- STRUCTURAL DETAIL FOR COLUMN SIZE & FOUNDATIONS

S04- STRUCTURAL DETAIL FOR MASONRY WALL & STAIR FOUNDATIONS

S05- GROUND FLOOR FRAMING PLAN & SLAB REINFORCEMENT DETAILS

S06- GROUND FLOOR BEAMS REINFORCEMENT DETAILS

**S07- MUMTY FRAMING PLAN & SLAB REINFORCEMENT DETAILS
& STRUCTURAL DETAILS OF WATER TANKS**

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DRAWN BY GHULAM MURTAZA

APPROVED BY BABAR TANWIR

PROJECT:-
PMU, PAKISTAN DIGITAL
CITY HARIPUR KP

DATE: SCALE: N.T.S.

DRAWING NO:-
S00

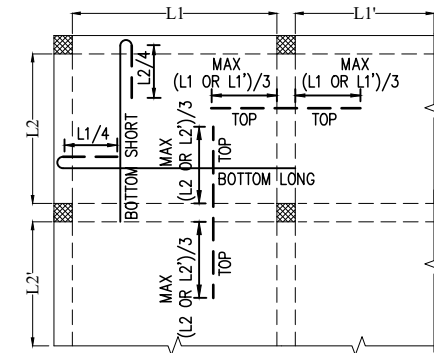
TITEL:-
LIST OF DRAWINGS

SUB TITEL:-
STRUCTURAL DWGS

REV No.	DATE	REVISIONS
1		
2		
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STRUCTURAL NOTES

- USE G-60 DEFORMED STEEL FOR FOOTINGS, SLABS, BEAM STIRRUPS, COLUMN TIES & WATER TANKS.
- USE G-60 DEFORMED STEEL FOR R.C.C. RETAINING WALLS, COLUMNS & BEAMS.
- USE CLASS "C" (1:2:4) CONCRETE IN ALL STRUCTURAL MEMBERS.
- CONCRETE CLEAR COVERAGE SHOULD BE FOLLOWED AS:-
 - SLAB 3/4" BOTTOM.
 - BEAMS 1 1/2" ALL SIDES.
 - COLUMNS 1 1/2" ALL SIDES.
 - FOOTING 2" ALL SIDES.
- LAP LENGTH SHOULD BE FOLLOWED AS:-
 - 3/8" \varnothing = 25"
 - 1/2" \varnothing = 30"
 - 5/8" \varnothing = 40"
 - 3/4" \varnothing = 45"
- FOOTING HAS BEEN DESIGNED FOR TWO STOREYS & A MUMTY WITH ASSUMED BEARING CAPACITY OF SOIL AS 1.00 TSF.
- CLASS "A" KILN BURNT BRICK WITH MINIMUM CRUSHING STRENGTH OF 1500 PSI SHOULD BE USED & JOINT AT END SHOULD BE SLOPPY, VERTICAL TOOTHED JOINT AT CORNERS ARE PROHIBITED.
- CEMENT-SAND MORTAR SHOULD BE USED AS
 - IN FOUNDATION 1:4
 - SUPER STRUCTURE 9"THICK 1:4
 - SUPER STRUCTURE 4 1/2" THICK 1:4
- DOWELS AT CORNERS & JUNCTIONS SHOULD BE PROVIDED AT EACH 3'-0" HEIGHT & 3'-0 ON EITHER SIDE.
- THE DESIGN IS IN ACCORDANCE WITH SEISMIC ZONE 2B.



SLAB REINFORCEMENT PLACEMENT & CURTAILMENT PLAN

* FOR THE CURTAILMENT OF TOP BARS,
L1 OR L2 SHALL BE THE LARGER OF TWO
ADJACENT SPANS.

SLAB REINFORCEMENT MARKS:

- — — — — * INDICATE TOP BARS.
- — — — — * INDICATE BOTTOM BARS.

S/NO	ABBREVIATION USED		S/NO	ABBREVIATION USED		S/NO	ABBREVIATION USED	
1	C/C	Center to Center	7	P.C.C	Plain Cement Concrete	13	GB	Ground Beam
2	E.G.L	Existing Ground Level	8	WF	Wall Footing	14	RB	Roof Beam
3	G.F.F.L	Ground Finish Floor Level	9	P.B	Plinth Beam	15	LBD	Lintel Band Beam
4	F-1	Footing No. 1	10	TB	Tie Beam			
5	C-1	Column No. 1	11	CB	Concealed Beam			
6	B/W	Both Way	12	UB	Upstand Beam			

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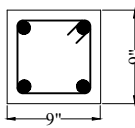
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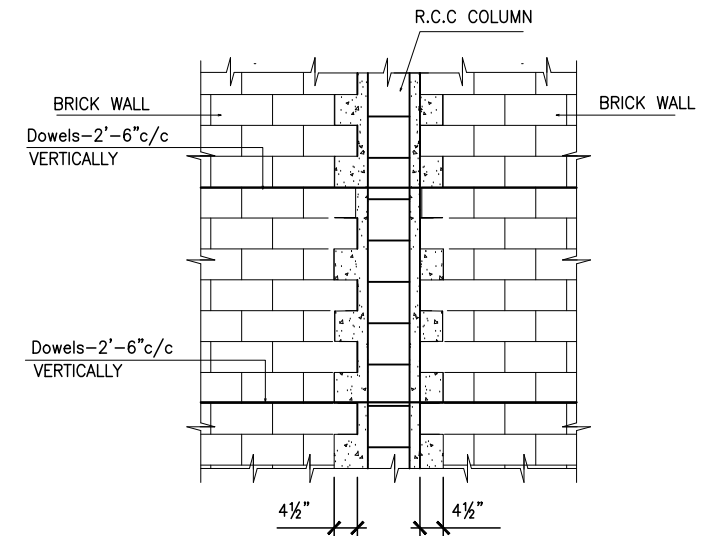
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GENERAL NOTES

SUB TITEL:-
STRUCTURAL DWGS

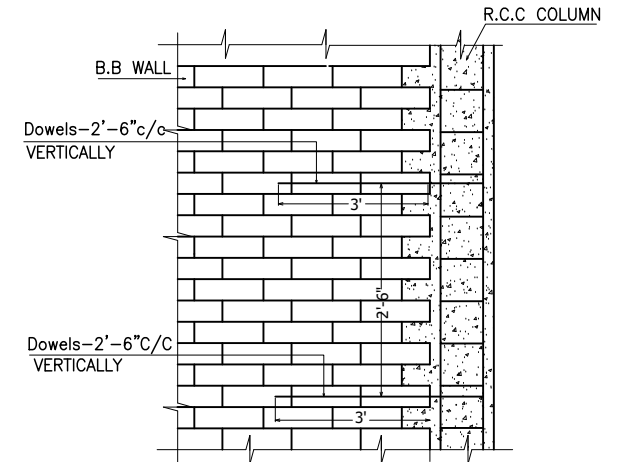
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SCHEDULE OF R.C.C LINTELS

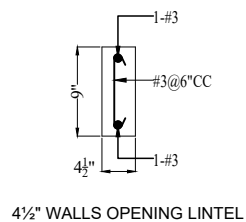
S/NO	SPAN	SIZE	REINFORCEMENT		RINGS	X-SECTION
			BOTTOM	TOP		
1	UP TO 13'	9"x9"	2#4	2#4	#3-6"c/c	



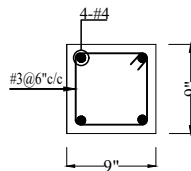
**TOOTHING
BETWEEN COLUMN & BRICK WALL.**



**DETAIL OF SIESMIC JOINT
BETWEEN COLUMN & B.B WALL.**

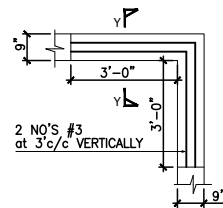


4 1/2" WALLS OPENING LINTEL

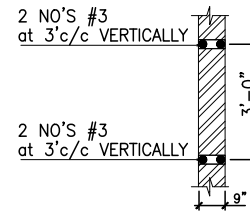


**LINTEL LEVEL
TIE BAND**

(TO BE PROVIDED IN ALL EXTERNAL & INTERNAL 9" THICK BRICK MASONRY WALLS AT LINTEL LEVEL)



DOWELS AT CORNERS



X. SECTION AT Y-Y

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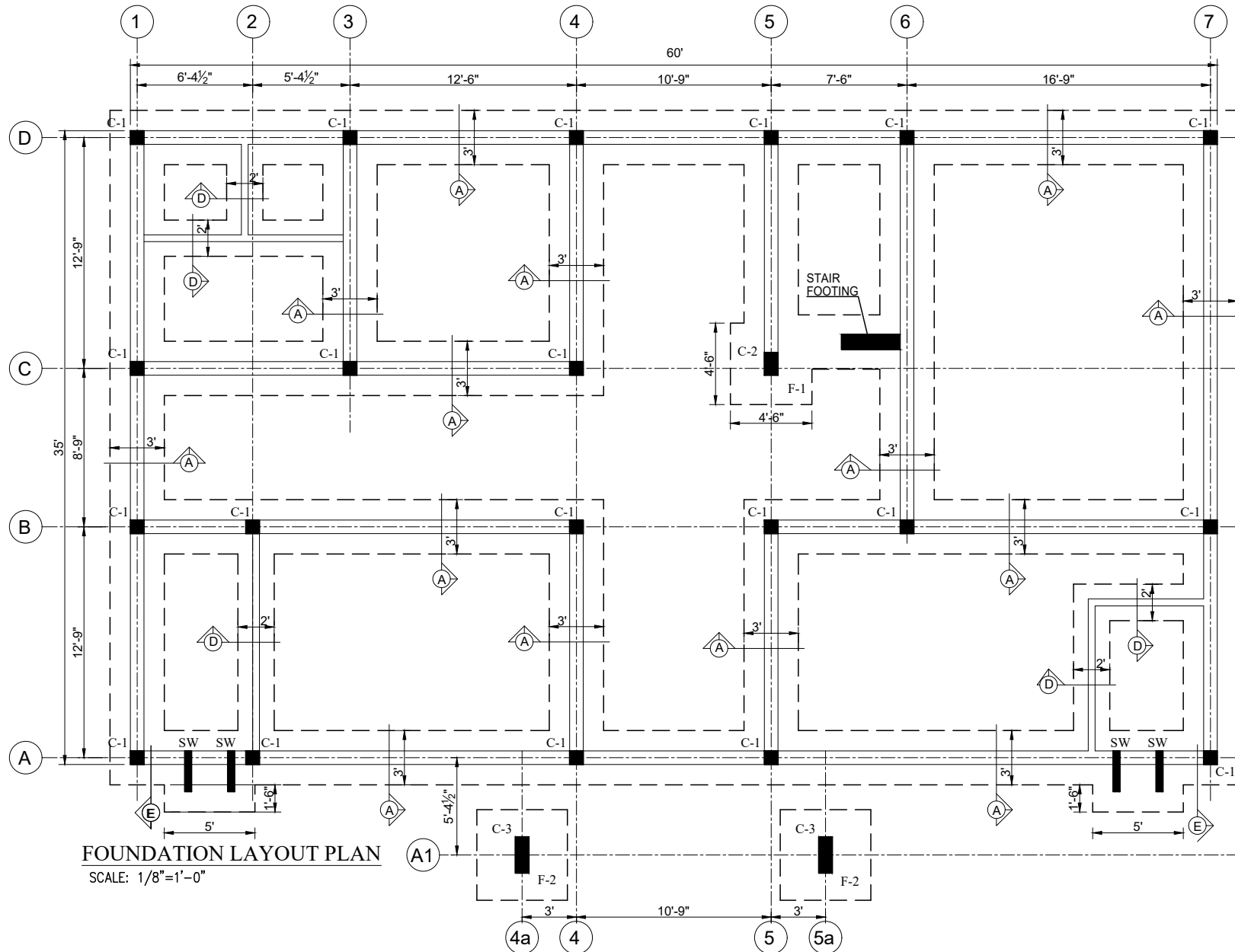
DATE: _____
SCALE: N.T.S

DRAWING NO:-
S02

TITLE:-
GENERAL NOTES 2

SUB TITEL:-
STRUCTURAL DWGS

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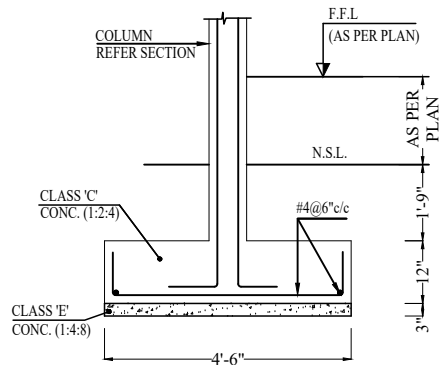
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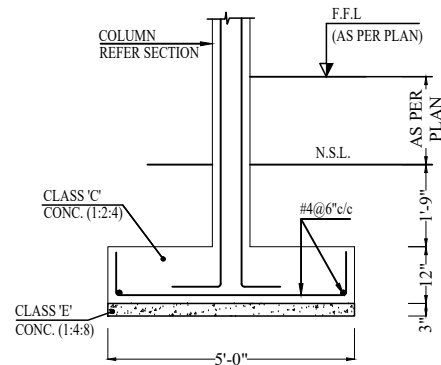
PROJECT:-
 PMU, PAKISTAN DIGITAL
 CITY HARIPUR KP
 DRAWING NO:-
 S03
 DATE: _____
 SCALE: N.T.S

TITLE:-
 FOUNDATION PLAN
 SUB TITLE:-
 EXCAVATION & COL LAYOUT

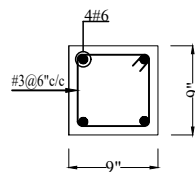
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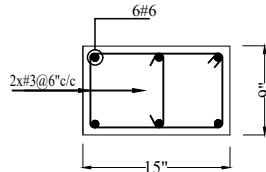
SECTION OF FOOTING F1
(4'-6"x4'-6")



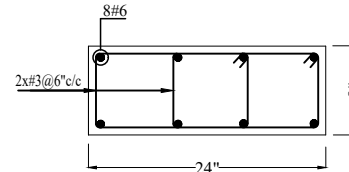
SECTION OF FOOTING F2
(5'-0"x5'-0")



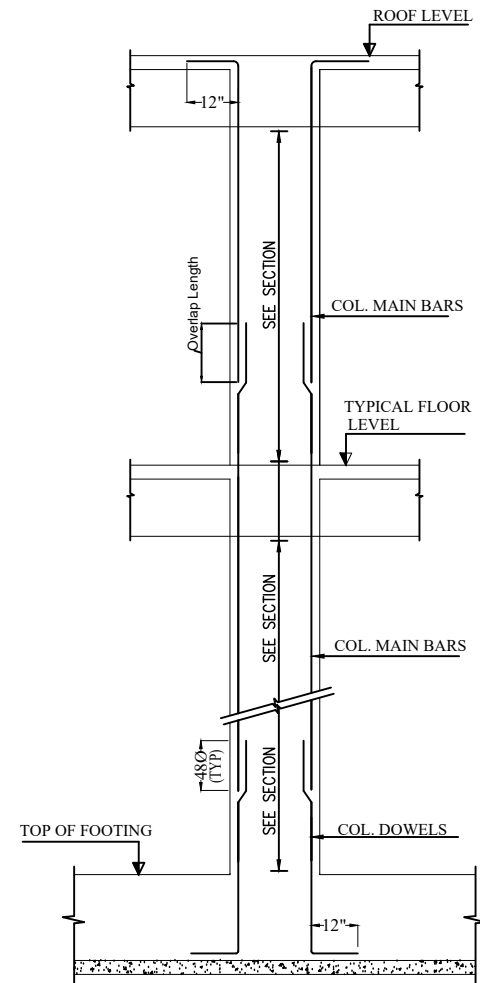
COLUMN C1



COLUMN C2



COLUMN C3



**COLUMN ELEVATION FOR TYPICAL
DETAILS OF COLUMN TIES**

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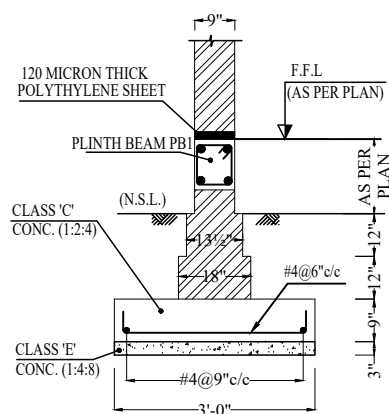
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SCALE: N.T.S.

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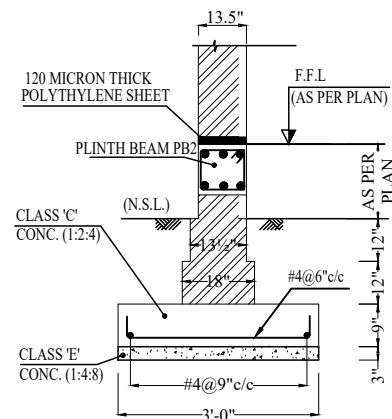
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TITLE:-
FOOTING & COL. DETAILS
SUB TITLE:-
STRUCTURAL DWGS

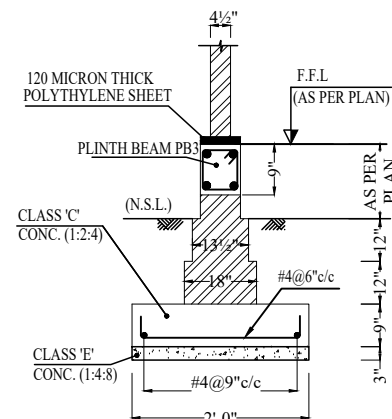
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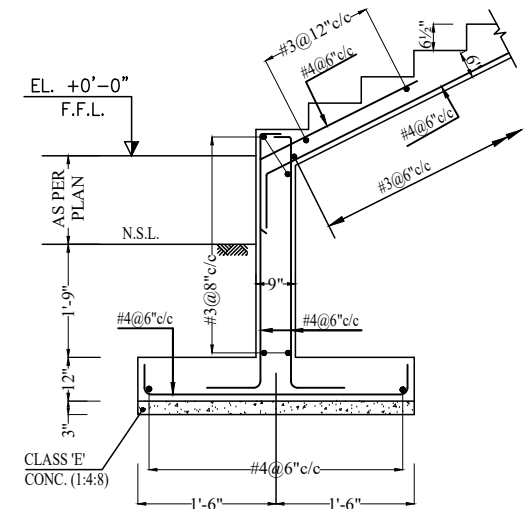
**SECTION OF FOOTING FOR
9" THICK MASONRY WALL
SECTION - A**



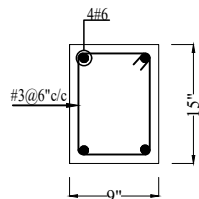
**SECTION OF FOOTING FOR
13.5" THICK MASONRY WALL
SECTION - E**



**SECTION OF FOOTING FOR
4 1/2" THICK MASONRY WALL
SECTION - D**

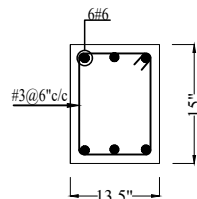


DETAIL OF STAIR CASE



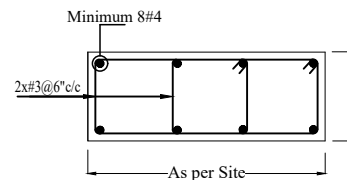
PLINTH BEAM PB1

(TO BE PROVIDED BELOW ALL EXTERNAL &
INTERNAL 9" THICK BRICK MASONRY)



PLINTH BEAM PB2

(TO BE PROVIDED BELOW ALL EXTERNAL
13.5" THICK BRICK MASONRY)



SHEAR WALL

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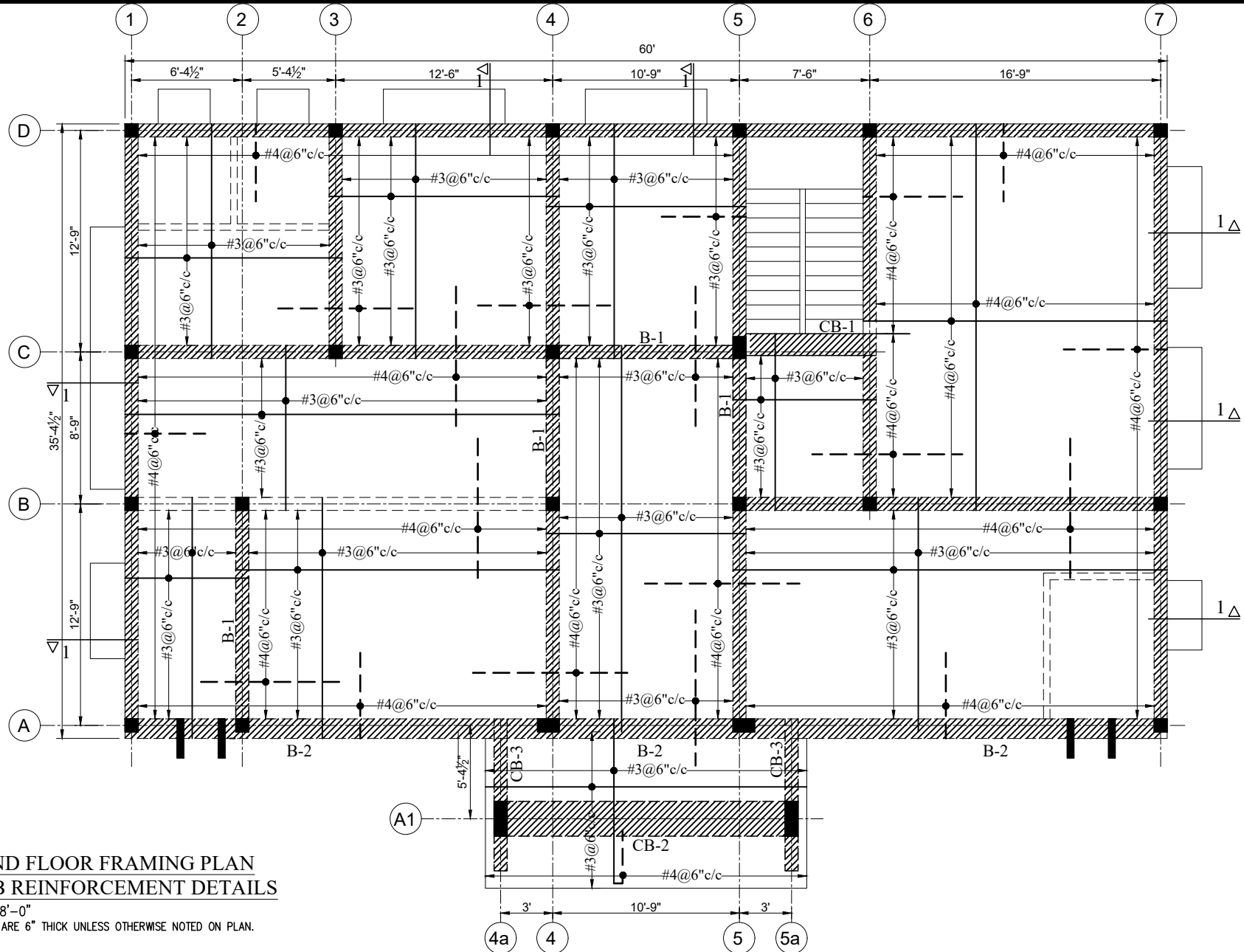
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PROJECT:-
PMU, PAKISTAN DIGITAL
CITY HARIPUR KP
DATE: _____
SCALE: N.T.S.
DRAWING NO:-
S05

TITLE:-
FOOTING & PLINTH BEAM
SUB TITLE:-
STEEL SECTIONS

REV No.	DATE	REVISIONS
1		
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GROUND FLOOR FRAMING PLAN & SLAB REINFORCEMENT DETAILS

SCALE: 1"=8'-0"

* ALL SLABS ARE 6" THICK UNLESS OTHERWISE NOTED ON PLAN.

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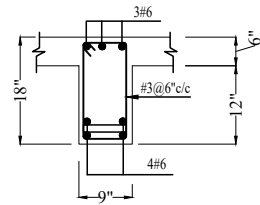
PROJECT:-
PMU, PAKISTAN DIGITAL
CITY HARIPUR KP

DRAWING NO:-
S06

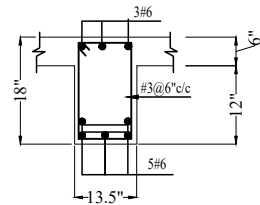
TITLE:-
SLAB REINFORCEMENT

SUB TITLE:-
GROUND FLOOR

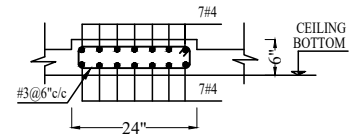
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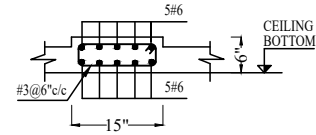
BEAM B-1



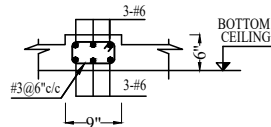
BEAM B-2



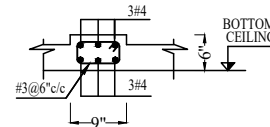
BEAM CB-2



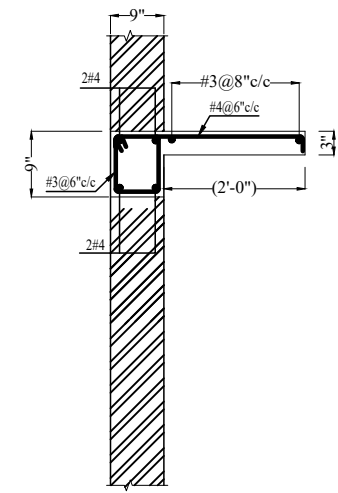
BEAM CB-1



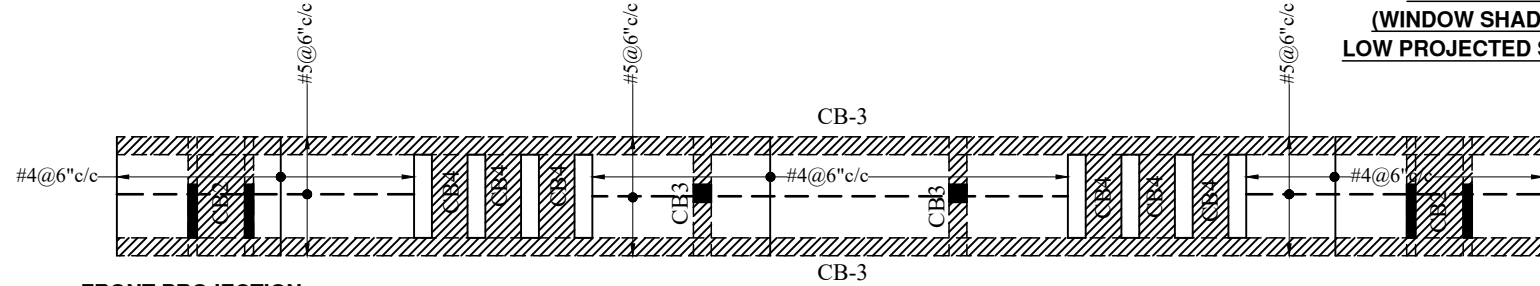
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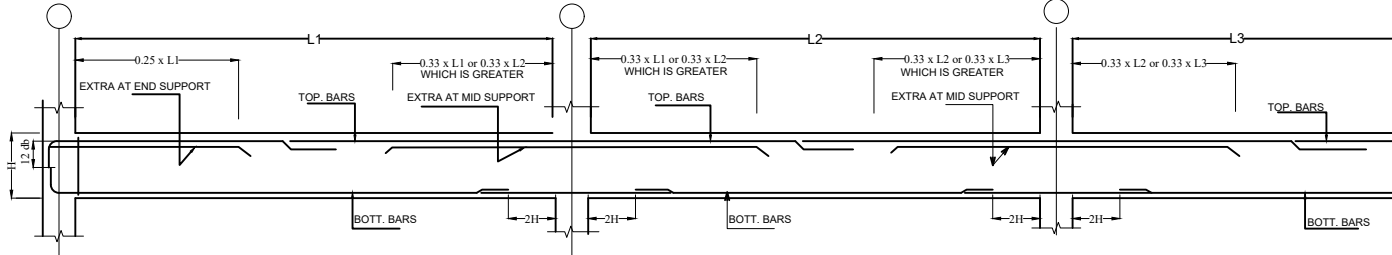
BEAM CB-4



**SECTION 1-1
(WINDOW SHADES /
LOW PROJECTED SLABS)**



FRONT PROJECTION



TYP BARS CUTOFF DETAILS FOR BEAM

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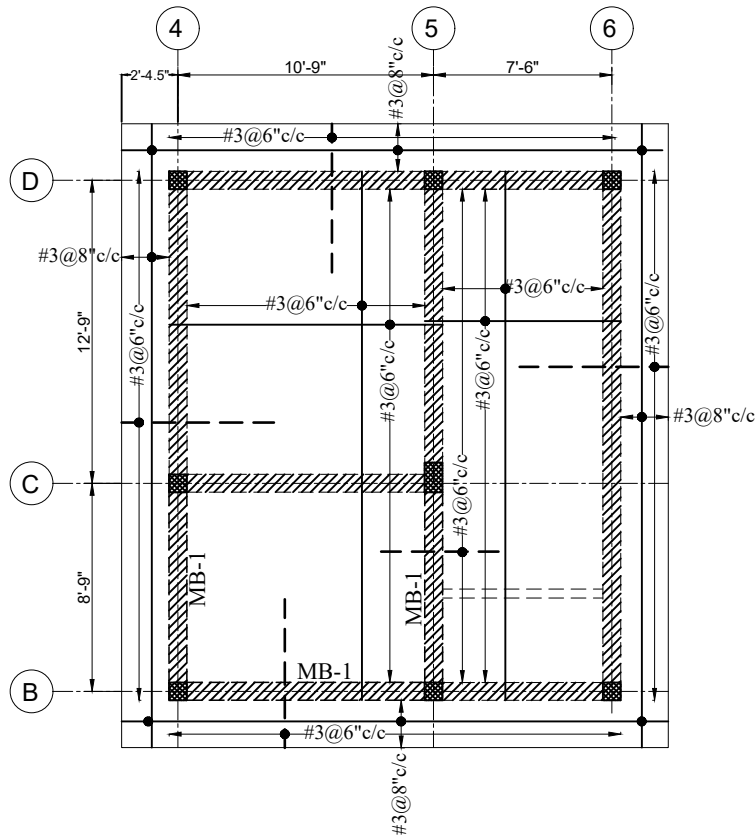
DRAWING NO:-
S07

DATE:
SCALE: N.T.S

TITEL:-
BEAM SECTIONS

SUB TITEL:-
GROUND FLOOR

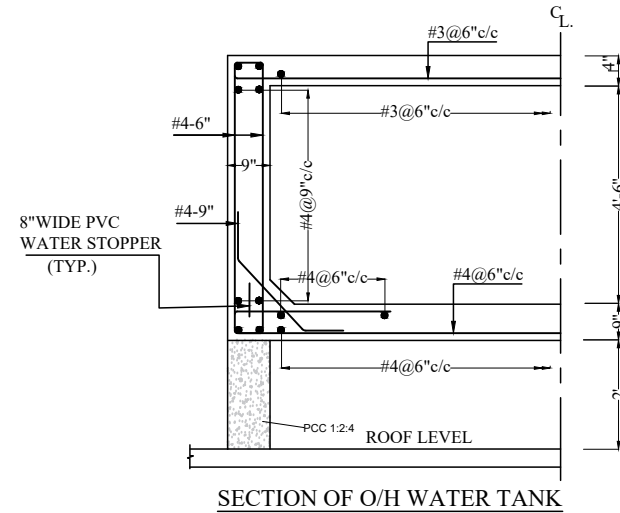
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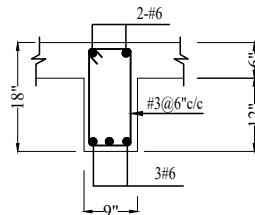
**MUMTY FRAMING PLAN &
SLAB REINFORCEMENT DETAILS**

SCALE: 1"=8'-0"

* MUMTY SLABS ARE 5" THICK.



SECTION OF O/H WATER TANK



BEAM MB-1

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PROJECT:-
PMU, PAKISTAN DIGITAL
CITY HARIPUR KP

DATE: _____

SCALE: N.T.S.

DRAWING NO:-
S08

TITLE:-
MUMTY & WATER TANK

SUB TITLE:-
MUMTY

REV No.	DATE	REVISIONS
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