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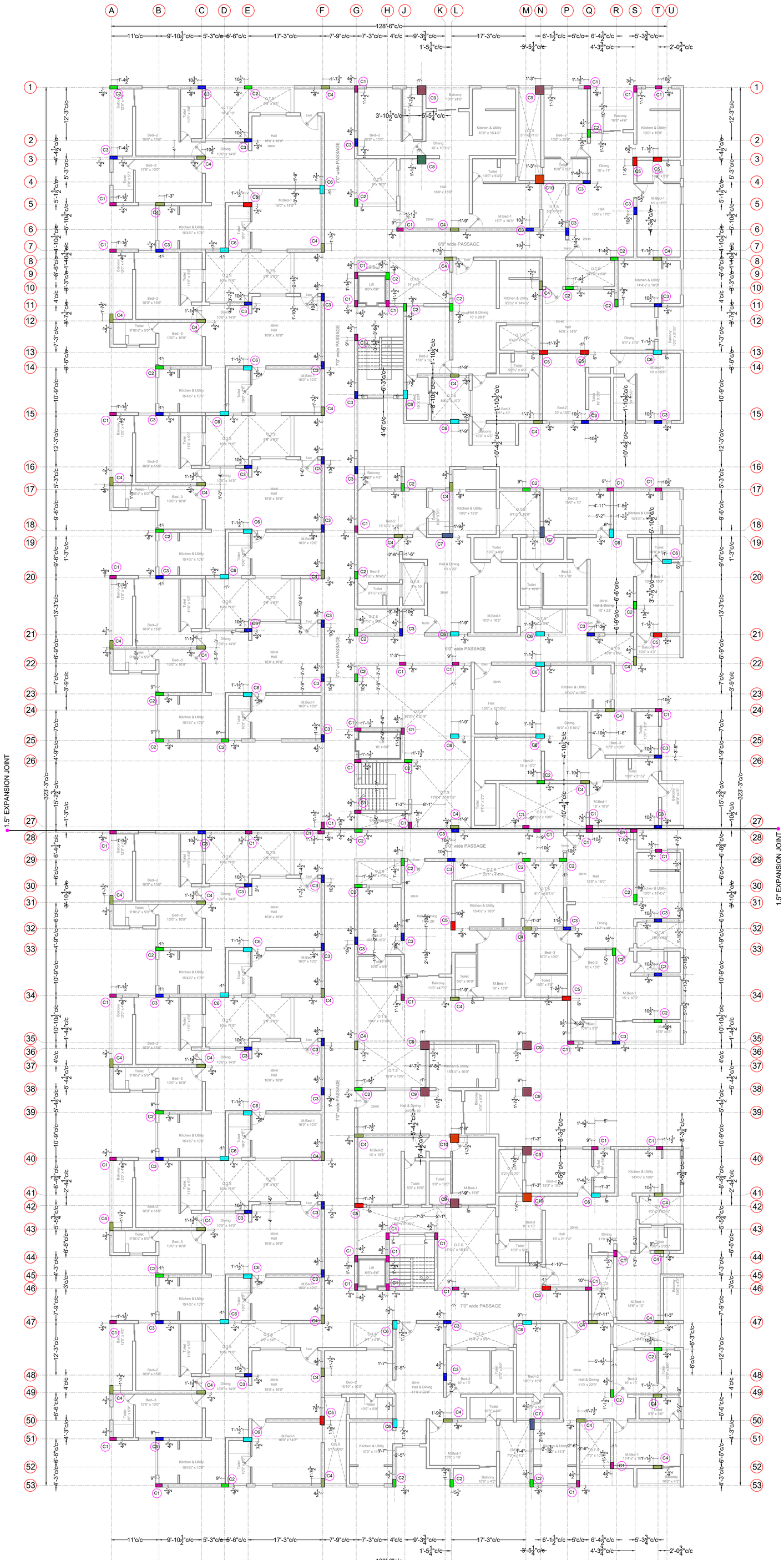
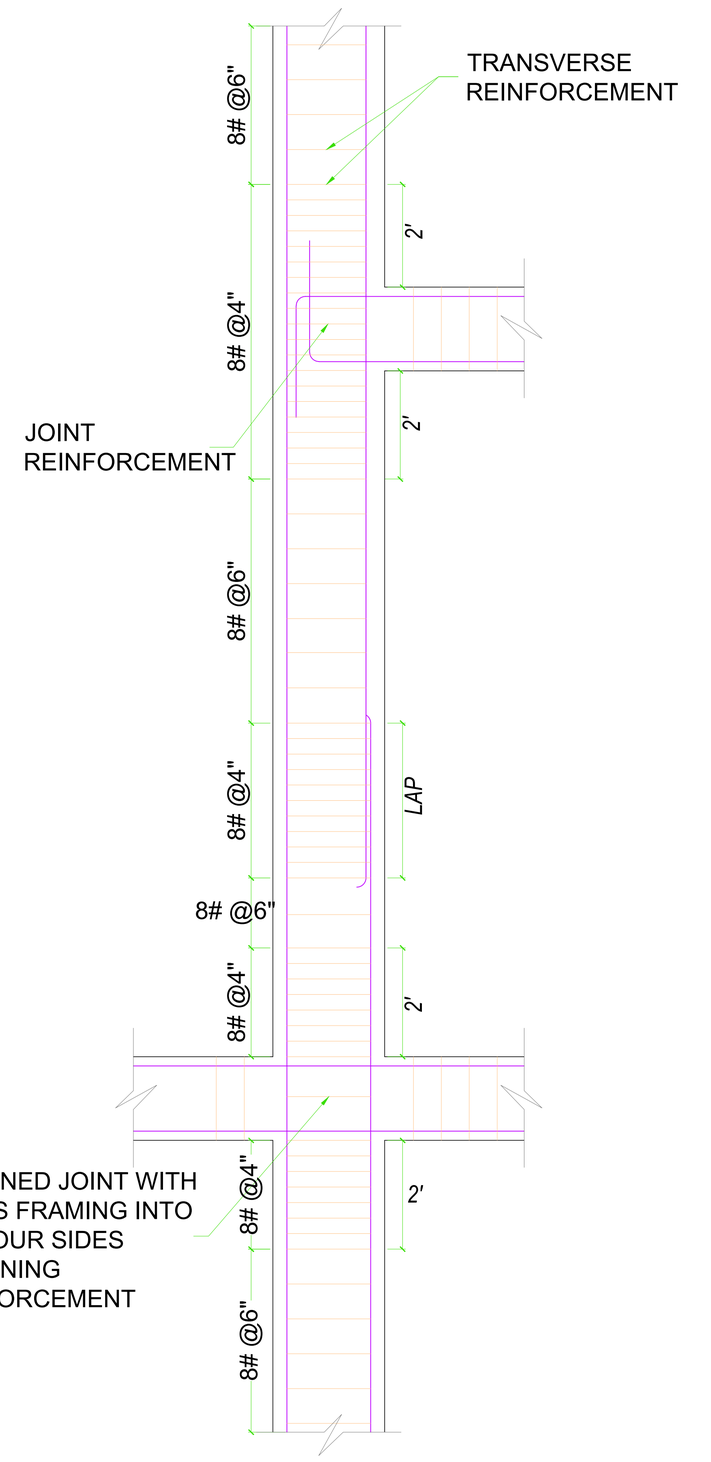
PLAN SHOWING THE PROPOSED RESIDENTIAL APARTMENT BUILDING BLOCK-A (STILT, FIRST,SECOND,THIRD, FOURTH & FIFTH FLOOR) AND BLOCK-B AMENITIES (GROUND AND FIRST FLOOR) IN SF.No: 94/3B AND 94/6, KURUDAMPALAYAM VILLAGE PANCHAYAT, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT

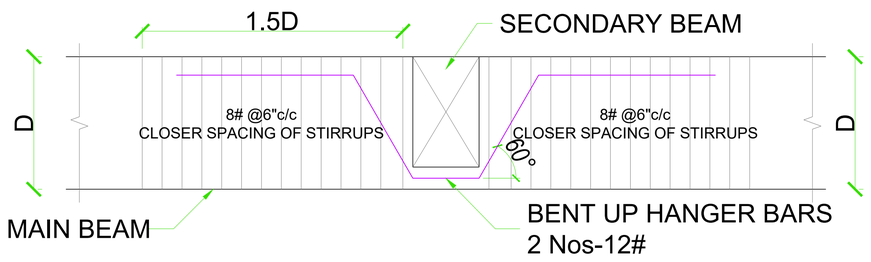




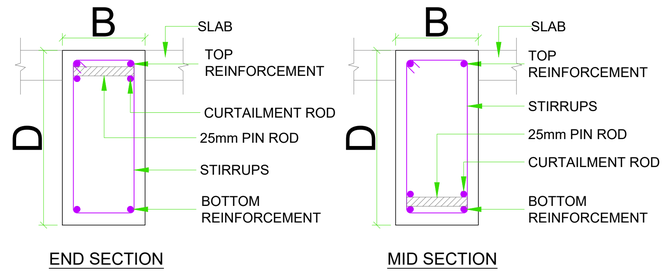
CONFINED JOINT WITH BEAMS FRAMING INTO ALL FOUR SIDES CONFINING REINFORCEMENT

TYPICAL COLUMN AND JOINT DETAILING

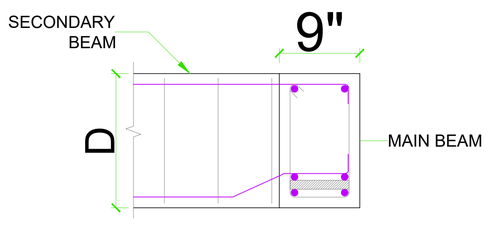
(TIES SHOULD BE CLOSELY SPACED AT BEAM - COLUMN JOINTS)



TYPICAL HANGER BAR DETAILS



TYPICAL CROSS SECTION FOR BEAM



TYPICAL REINFORCEMENT DETAILS OF SECONDARY BEAM RESTING ON MAIN BEAM

Notes:

1) This drawing should be read along with Architectural drawing.
2) Foundation Designed For Stilt Plus Five floors.
3) All centre line dimensions should be checked before marking with site measurement
4) SBC Of soil as per report is 27.97 T/m² but taken as 27.50 T/m²

P. Senthilkumar
P. SENTHIL KUMAR M.E. (STRUCT).AIV
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33-A, 1st Floor, Kalidas Street,
Ramnagar, Coimbatore - 641 009.
Cell: 97866 00478

GENERAL NOTES:

1) ALL DIMENSIONS ARE IN FOOT AND INCHES.
2) USE CONCRETE MIX: M20
3) MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 390 KG/CU.M OF CONCRETE.
5) CLEAR COVER FOR
   FOOTING: SIDE : 75mm
   FOOTING: TOP & BOTTOM : 50mm
   COLUMN : 40mm
   BEAM : 25mm
   SLAB : 20mm
6) LAP LENGTH OF BARS : 50Ø, AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES, NO LAPPING ALLOWED AT BEAM-COLUMN JOINT.
7) NO ADMIXTURES SHALL BE ADDED WITHOUT PERMISSION OF CONSULTANT.
8) CRANK AT L/4OF CLEAR SPAN
9) EXTRA ROD AT TOP TO A LENGTH OF 0.3L OF CLEAR SPAN FROM SUPPORT
10) ST - INDICATES STRAIGHT ROD.
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16) REMOVAL OF SHUTTERING / FORM WORK
   (a) COLUMN : 24 HOURS
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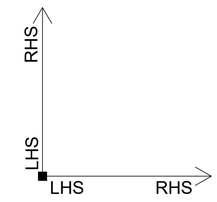

SUPPORT DESTINATION

Date:25/01/24
Scale: NTS
DRAWN BY : NK
CHECKED BY : SK

PROJECT:

PROPOSED RESIDENTIAL APARTMENT AT THUDIYALUR, COIMBATORE

DRAWING TITLE:

CENTERLINE FOUNDATION AND COLUMN KEY PLAN

PROJECT CODE : APT 25-SD-801-01
DWG NO : 801-01/SD/FD/002
REV NO & DATE : 0
FILE NAME : \\Sys2\e\2025\2025- Drawings\3.Apartment\SD-801-Structural\SD-801-01-Thudiyalur Apartment

PROMOTERS:

SREE DAKSHA'S PROPERTY DEVELOPERS

STRUCTURAL CONSULTANT

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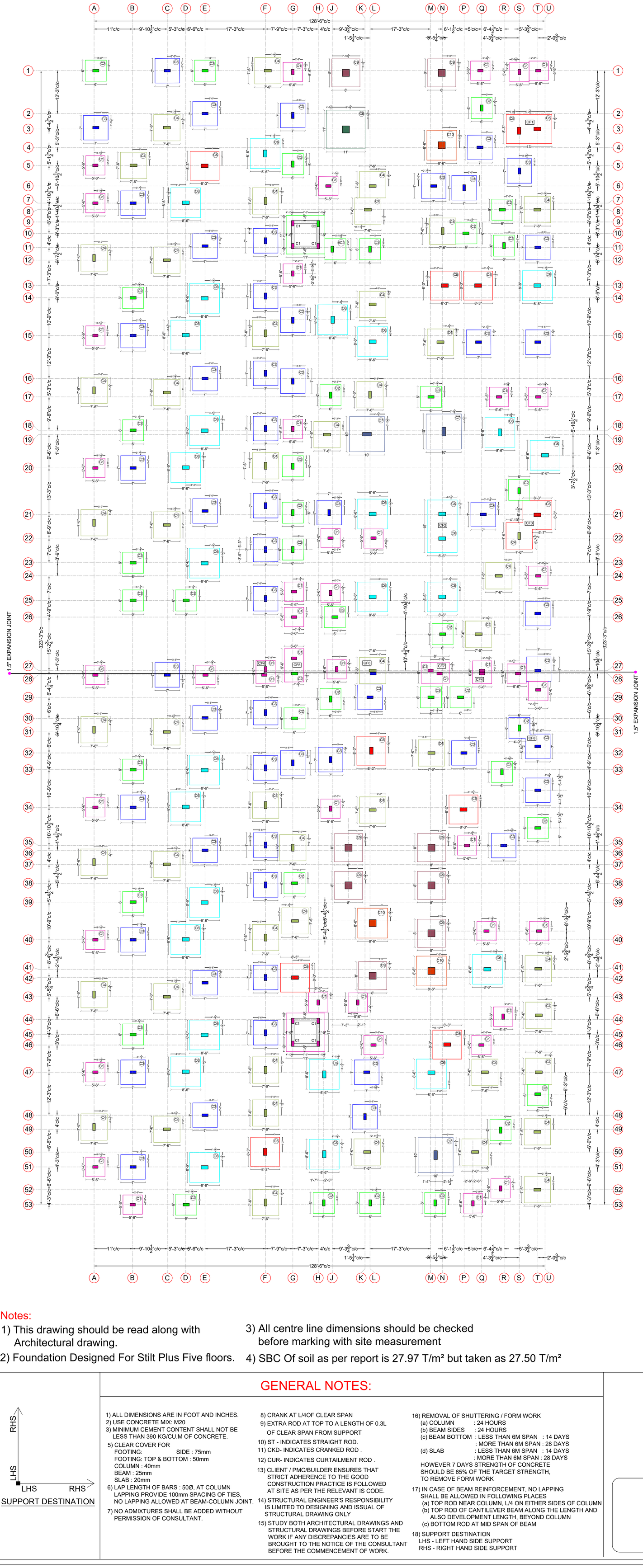

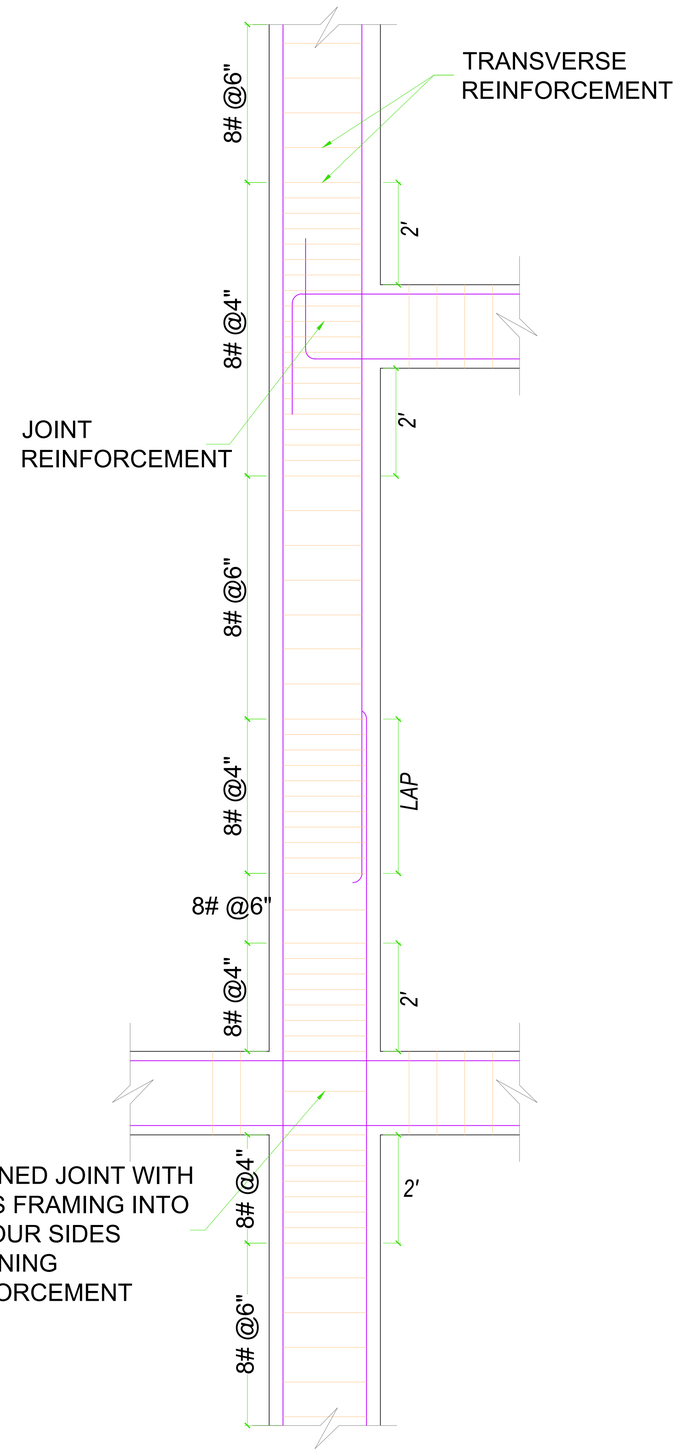

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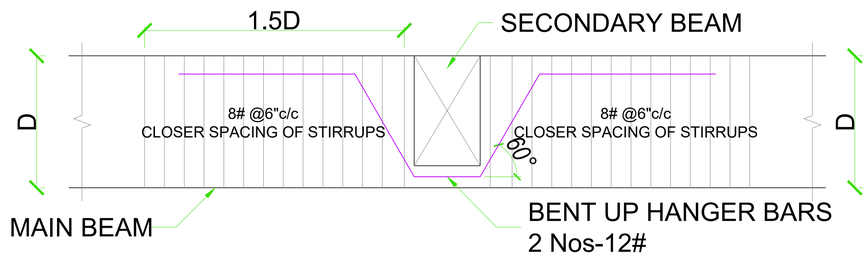

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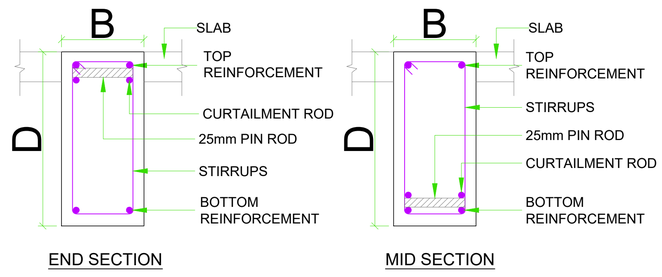

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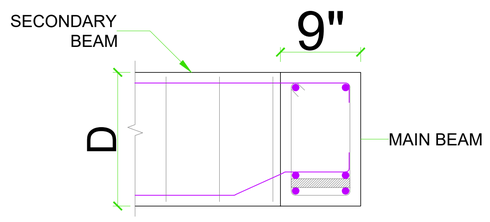

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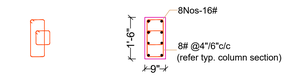
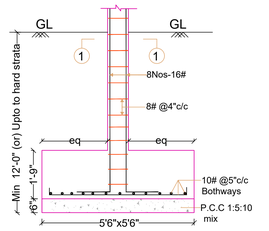
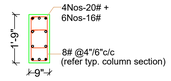


Lateral Tie Section 1-1



R.C.C. COLUMN AND FOOTING-C1



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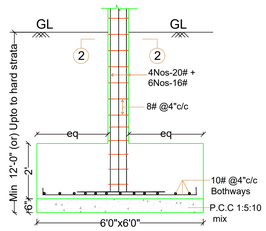

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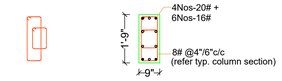
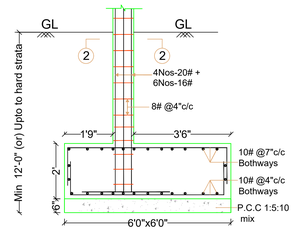


Lateral Tie Section 2-2



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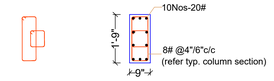

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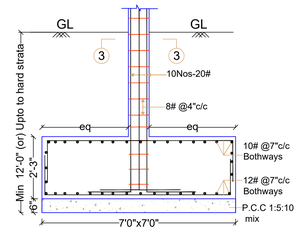

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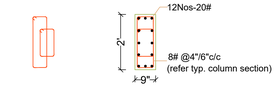

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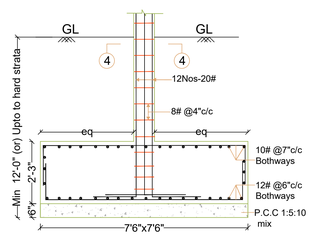

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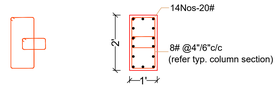
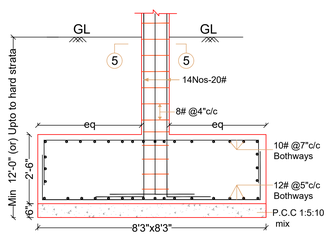
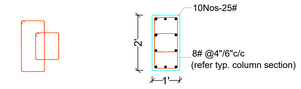


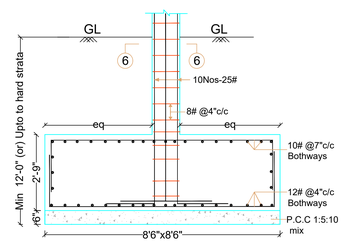
Lateral Tie Section 5-5



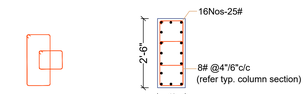
R.C.C. COLUMN AND FOOTING-C5



Lateral Tie Section 6-6



R.C.C. COLUMN AND FOOTING-C6



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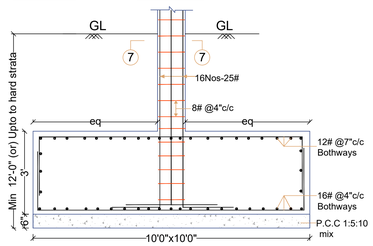

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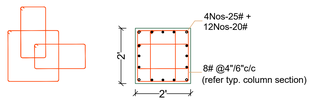
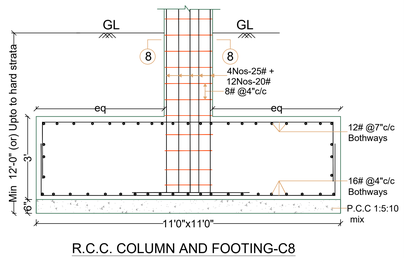
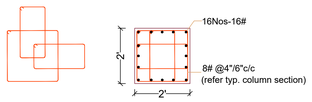


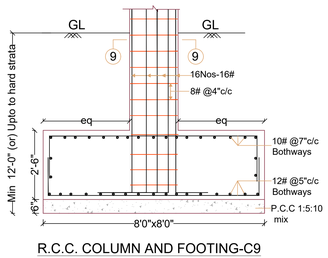
Lateral Tie Section 8-8



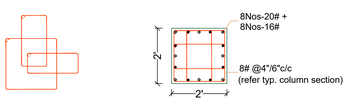
R.C.C. COLUMN AND FOOTING-C8



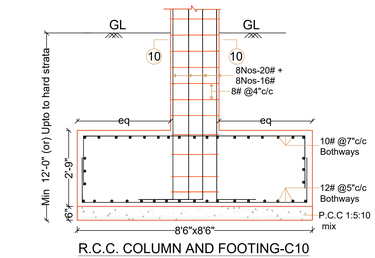
Lateral Tie Section 9-9



R.C.C. COLUMN AND FOOTING-C9

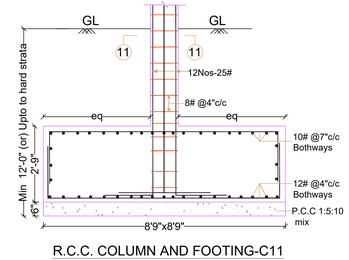


Lateral Tie Section 10-10



R.C.C. COLUMN AND FOOTING-C10

Lateral Tie Section 11-11



R.C.C. COLUMN AND FOOTING-C11

SCHEDULE OF COLUMNS

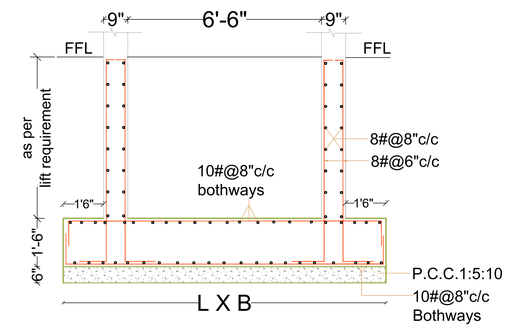
COLUMN TYPE	FOUNDATION TO STILT FLOOR ROOF				REMARKS
	NOS	SIZE	REINFORCEMENT	LATERAL TIE	
C1	32	9" X 18"	8Nos-16#	8# @4/6"C/C	-
C2	21	9" X21"	4Nos-20# + 6Nos-16#	8# @4/6"C/C	-
C3	25	9" X 21"	10Nos-20#	8# @4/6"C/C	-
C4	15	9" X 24"	12Nos-20#	8# @4/6"C/C	-
C5	10	12" X 24"	14Nos-20#	8# @4/6"C/C	-
C6	3	12" X 24"	10Nos-25#	8# @4/6"C/C	-
C7	5	12" X 30"	16Nos-25#	8# @4/6"C/C	-
C8	4	24" X 24"	4Nos-25# + 12Nos-20#	8# @4/6"C/C	-
C9	2	24" X 24"	16Nos-16#	8# @4/6"C/C	-
C10	6	24" X 24"	8Nos-20# + 8Nos-16#	8# @4/6"C/C	-
C11	6	12" X 24"	12Nos-25#	8# @4/6"C/C	-

SCHEDULE OF FOOTINGS

FOOTING TYPE	FOOTING SIZE	DEPTH	BOTTOM STEEL		TOP STEEL		REMARKS
			SHORTER	LONGER	SHORTER	LONGER	
C1	5'6" x 5'6"	21"	10# @ 5"C/C	10# @ 5"C/C	-	-	-
C2	6'0" x 6'0"	24"	10# @ 4"C/C	10# @ 4"C/C	-	-	-
C3	7'0" x 7'0"	27"	12# @ 7"C/C	12# @ 7"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C4	7'6" x 7'6"	27"	12# @ 6"C/C	12# @ 6"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C5	8'3" x 8'3"	30"	12# @ 5"C/C	12# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C6	8'6" x 8'6"	33"	12# @ 4"C/C	12# @ 4"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C7	10'0" x 10'0"	36"	16# @ 4"C/C	16# @ 4"C/C	12# @ 7"C/C	12# @ 7"C/C	-
C8	11'0" x 11'0"	36"	16# @ 4"C/C	16# @ 4"C/C	12# @ 7"C/C	12# @ 7"C/C	-
C9	8'0" x 8'0"	30"	12# @ 5"C/C	12# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C10	8'6" x 8'6"	33"	12# @ 5"C/C	12# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	-
C11	8'9" x 8'9"	33"	12# @ 4"C/C	12# @ 4"C/C	10# @ 7"C/C	10# @ 7"C/C	-
CF1	8'6" x 15'0"	30"	12# @ 5"C/C	12# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF2	6'0" x 10'9"	33"	12# @ 4"C/C	12# @ 4"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF3	As per key plan	30"	12# @ 5"C/C	12# @ 5"C/C	12# @ 7"C/C	12# @ 7"C/C	COMBINED FOOTING
CF4	5'6" x 6'6"	21"	10# @ 5"C/C	10# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF5	5'6" x 9'6"	24"	10# @ 4"C/C	10# @ 4"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF6	7'6" x 7'6"	27"	12# @ 6"C/C	12# @ 6"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF7	8'0" x 6'0"	21"	10# @ 5"C/C	10# @ 5"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
CF8	As per key plan	27"	12# @ 7"C/C	12# @ 7"C/C	10# @ 7"C/C	10# @ 7"C/C	COMBINED FOOTING
LIFT - 1	As per key plan	18"	10# @ 8"C/C	10# @ 8"C/C	10# @ 8"C/C	10# @ 8"C/C	LIFT PIT
LIFT - 2	As per key plan	18"	10# @ 8"C/C	10# @ 8"C/C	10# @ 8"C/C	10# @ 8"C/C	LIFT PIT

Notes:

1) This drawing should be read along with Architectural drawing.
2) Foundation Designed For Stilt Plus Five floors.
3) All centre line dimensions should be checked before marking with site measurement
4) SBC Of soil as per report is 27.97 T/m² but taken as 27.50 T/m²



TYPICAL CROSS SECTION FOR LIFT PIT

GENERAL NOTES:

1) ALL DIMENSIONS ARE IN FOOT AND INCHES.
2) USE CONCRETE MIX: M20
5) CLEAR COVER FOR
FOOTING: SIDE : 75mm
FOOTING: TOP & BOTTOM : 50mm
COLUMN : 40mm
BEAM : 25mm
SLAB : 20mm
6) LAP LENGTH OF BARS : 50Ø, AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES, NO LAPPING ALLOWED AT BEAM-COLUMN JOINT.
7) NO ADMIXTURES SHALL BE ADDED WITHOUT PERMISSION OF CONSULTANT.
8) CRANK AT L/4OF CLEAR SPAN.
9) EXTRA ROD AT TOP TO A LENGTH OF 0.3L OF CLEAR SPAN FROM SUPPORT
10) ST - INDICATES STRAIGHT ROD.
11) CKD- INDICATES CRANKED ROD .
12) CUR- INDICATES CURTAILMENT ROD .
13) CLIENT / PMC/BUILDER ENSURES THAT STRICT ADHERENCE TO THE GOOD CONSTRUCTION PRACTICE IS FOLLOWED AT SITE AS PER THE RELEVANT IS CODE.
14) STRUCTURAL ENGINEER'S RESPONSIBILITY IS LIMITED TO DESIGNING AND ISSUAL OF STRUCTURAL DRAWING ONLY
15) STUDY BOTH ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS BEFORE START THE WORK IF ANY DISCREPANCIES ARE TO BE BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE THE COMMENCEMENT OF WORK.
16) IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
(a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
(b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
(c) BOTTOM ROD AT MID SPAN OF BEAM
17) SUPPORT DESTINATION
LHS - LEFT HAND SIDE SUPPORT
RHS - RIGHT HAND SIDE SUPPORT

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PLAN SHOWING THE PROPOSED RESIDENTIAL APARTMENT BUILDING BLOCK-A (STILT, FIRST,SECOND,THIRD, FOURTH & FIFTH FLOOR) AND BLOCK-B AMENITIES (GROUND AND FIRST FLOOR) IN SF.No: 94/3B AND 94/6, KURUDAMPALAYAM VILLAGE PANCHAYAT, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT

Date:25/01/24
Scale: NTS
DRAWN BY : NK
CHECKED BY : SK

PROJECT:

PROPOSED RESIDENTIAL APARTMENT AT THUDIYALUR, COIMBATORE

DRAWING TITLE:

R.C.C COLUMN AND FOUNDATION DETAILS

PROJECT CODE : APT 25-SD-801-01
DWG NO : 801-01/SD/FD/002
REV NO & DATE : 0
FILE NAME :
\\Sys2\e\2025\2025- Drawings\3.Apartment\SD-801-Structural\SD-801-01-Thudiyalur Apartment

PROMOTERS:

SREE DAKSHA'S PROPERTY DEVELOPERS

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