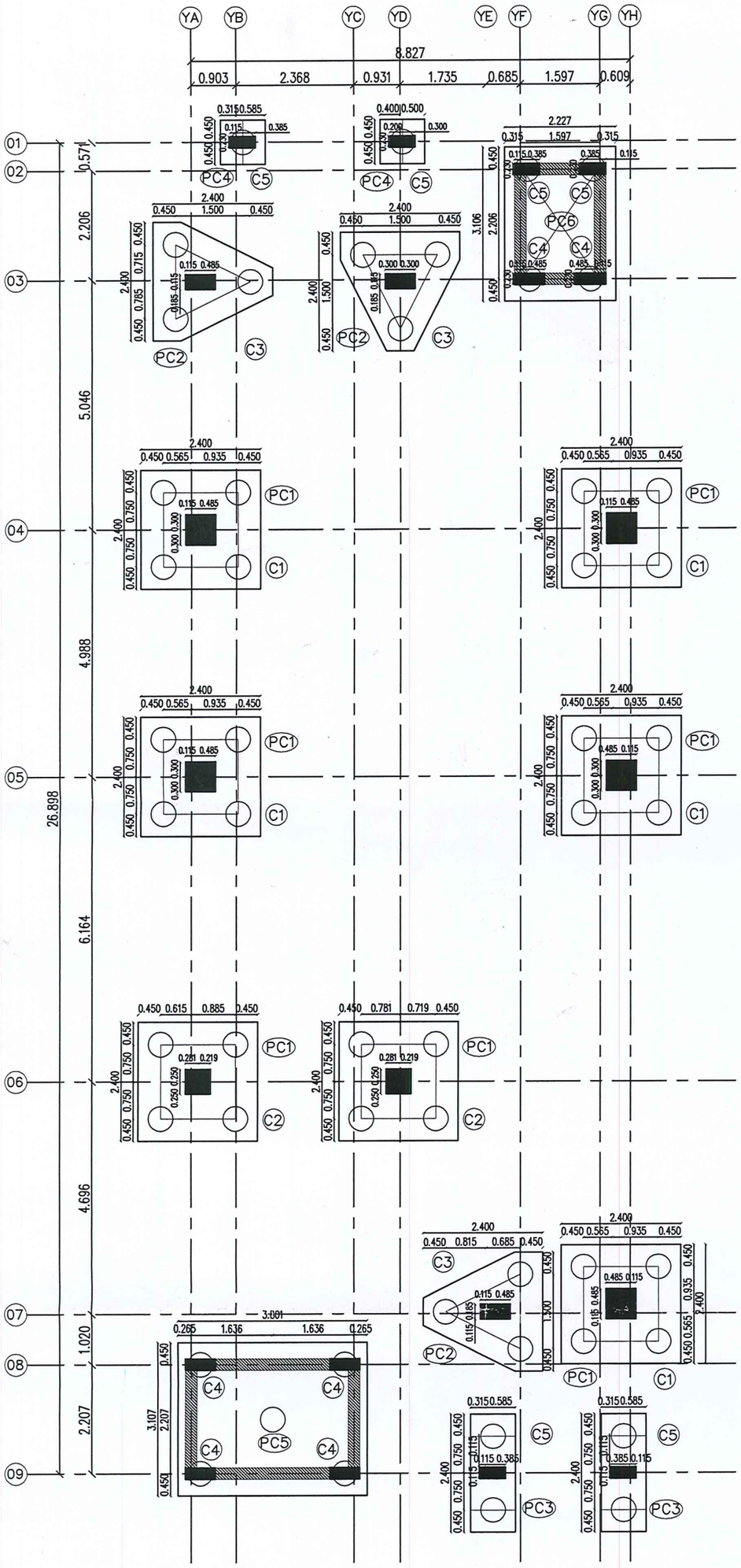


PILE FOUNDATION LAYOUT

Notes :

1. All dimensions are in metres.
2. This drawing shall be read in conjunction with relevant architectural drawing.
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix as shown :
   for Pile – M40 (Cement Content 400 kg/m3)
   for Pile Cap & PB – M40 (Cement Content 400kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Reinforcement : TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
6. Clear concrete cover to main bars :
   for footings – 50mm ; for columns – 40mm;
   for pile – 50mm , for pile cap – 75mm ;
   For plinth beams – 25mm
7. Use stone aggregates and sand conforming to IS 383(latest revision)
   stone aggregate size – 20mm and down grade
8. Use good water for concrete mixing and curing conforming to IS 456(latest revision)
9. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 (latest revision) for 53 grade cement.
10. Piles shall be bored and under reamed as accurately as possible.
11. For construction of piles (Boring and under reaming control of alignment, method of concreting, finishing pile heads, estimation of concrete quantity, etc.) Refer I.S 2911 (PART–III) latest edition.
12. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
13. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
14. Piles are designed for loads from G floor+ 5 floors+weight of pile cap.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD
R1.	–	–		

PILE FOUNDATION LAYOUT

JOB NO : –	DRAWN : –
DRG.NO: S–01	DESIGNED : –
DATE : –	

PROJECT :

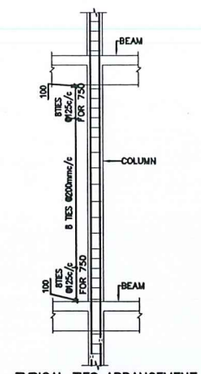
Plan showing the proposed construction of stilt + 5 floors Office cum residential building with one dwelling unit at old door No:12, new no:5, plot no:270 C, E-block, 1st street, Anna nagar east, Chennai-600 102. In T.S.no:118 part (as per doc), old s.no:44/ 1 part, 44 /4 part and 46 part, T.S.no:118/8 (as per patta) block no:1, of Periyakudal village, Aminjikarai Taluk, within the limit of greater Chennai Corporation, Zone : VIII, division - 101

STRUCTURAL CONSULTANT

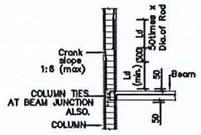
Er. P. RAMAN, B.E., M.Tech. (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF COLUMNS (MIX- M40)

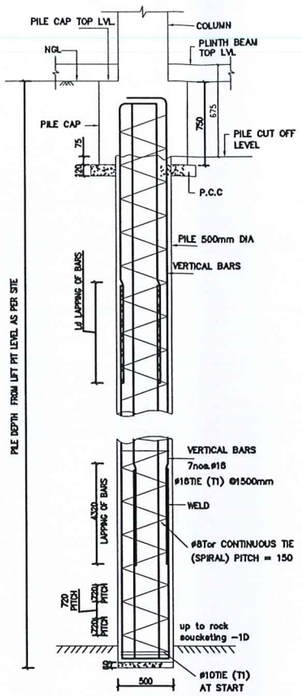
COL. MARK.	COLUMN REINFORCEMENT						
	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
C1	20-ø25Tor	20-ø25Tor	12-ø25Tor+8-ø20Tor	12-ø25Tor+8-ø20Tor	12-ø25Tor+8-ø20Tor	12-ø25Tor+8-ø20Tor	ø10Tor
C2	16-ø25Tor	12-ø25+4-ø20	12-ø25+4-ø20	12-ø25+4-ø20	12-ø25+4-ø20	12-ø25+4-ø20	ø10Tor
C3	12-ø20	12-ø20	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	ø10Tor
C4	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	8-ø20+4-ø16	øBTor
C5	8-ø20+2ø16(a)	8-ø20+2ø16(a)	8-ø20+2ø16(a)	8-ø20+2ø16(a)	8-ø20+2ø16(a)	8-ø20+2ø16(a)	øBTor



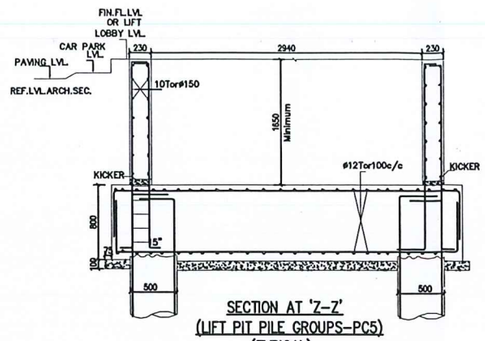
TYPICAL TIES ARRANGEMENT IN COLUMN



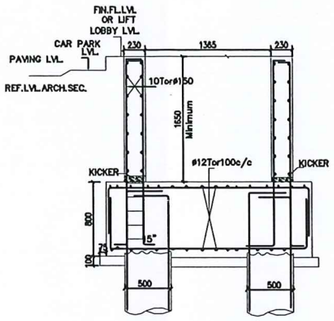
SPLICE WITH UPPER BARS CRANKED INTO POSITION INSIDE LOWER BARS



DETAIL OF PILE BORED CAST IN SITU PILE(500ø)



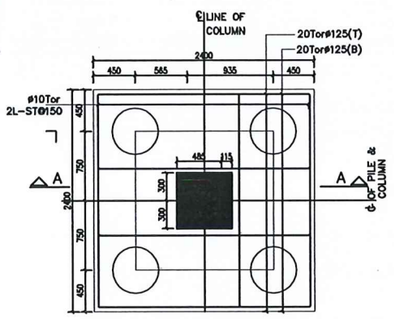
SECTION AT 'Z-Z' (LIFT PIT PILE GROUPS-PC5) (TYPICAL)



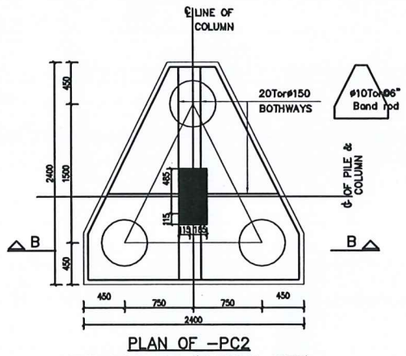
SECTION AT 'Z-Z' (LIFT PIT PILE GROUPS-PC6) (TYPICAL)

Notes :

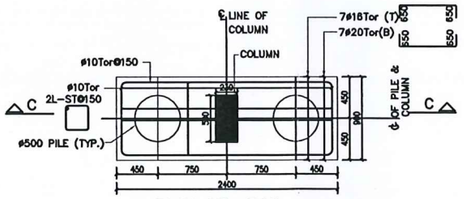
1. All dimensions are in metres.
2. This drawing shall be read in conjunction with relevant architectural drawing.
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix as shown :
   for Pile – M40 (Cement Content 400 kg/m3)
   for Pile Cap & PB – M40 (Cement Content 400kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Reinforcement : TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
6. Clear concrete cover to main bars :
   for footings – 50mm ; for columns – 40mm;
   for pile – 50mm , for pile cap – 75mm ;
   For plinth beams – 25mm
7. Use stone aggregates and sand conforming to IS 383(latest revision)
   stone aggregate size – 20mm and down grade
8. Use good water for concrete mixing and curing conforming to IS 456(latest revision)
9. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 (latest revision) for 53 grade cement.
10. Piles shall be bored and under reamed as accurately as possible.
11. For construction of piles (Boring and under reaming control of alignment, method of concreting, finishing pile heads, estimation of concrete quantity, etc.) Refer I.S 2911 (PART-III) latest edition.
12. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
13. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
14. Piles are designed for loads from G floor+ 5 floors+weight of pile cap.



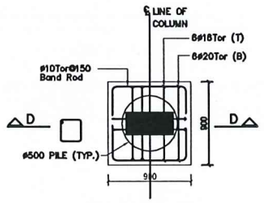
PLAN OF -PC1
TWO PILE CAP (TYPICAL-NTS)



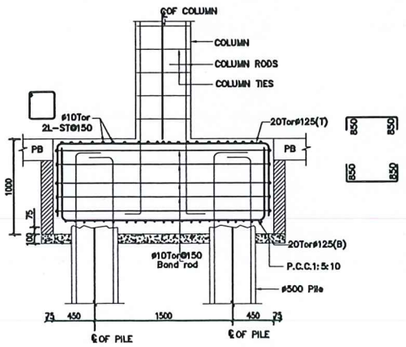
PLAN OF -PC2
TWO PILE CAP (TYPICAL-NTS)



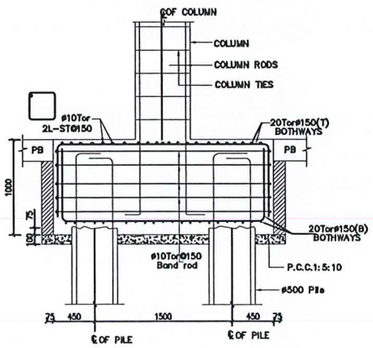
PLAN OF -PC3
TWO PILE CAP (TYPICAL-NTS)



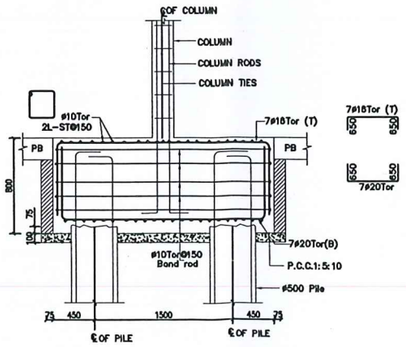
PLAN OF -PC4
FOUR PILE CAP (TYPICAL)



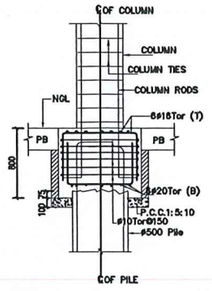
SECTION AT A-A OF PC1 (NTS)



SECTION AT B-B OF PC2 (NTS)



SECTION AT C-C OF PC3 (NTS)



SECTION AT D-D OF PC4(NTS)

R1.	–	–		
REV.	DATE	REVISION NOTE NO	SIGN	CHKD

PILE CAP SECTION AND RCC DETAILS.

JOB NO : –	DRAWN : –
DRG.NO: S-02	DESIGNED: –
DATE : –	

PROJECT :

Plan showing the proposed construction of stilt + 5 floors Office cum residential building with one dwelling unit at old door No:12, new no:5, plot no:270 C, E-block, 1st street, Anna nagar east, Chennai-600 102. In T.S.no:118 part (as per doc), old s.no:44/1 part, 44/4 part and 46 part, T.S.no:118/8 (as per patta) block no:1, of Periyakudal village, Aminjikarai Taluk, within the limit of greater Chennai Corporation, Zone : VIII, division - 101

STRUCTURAL CONSULTANT

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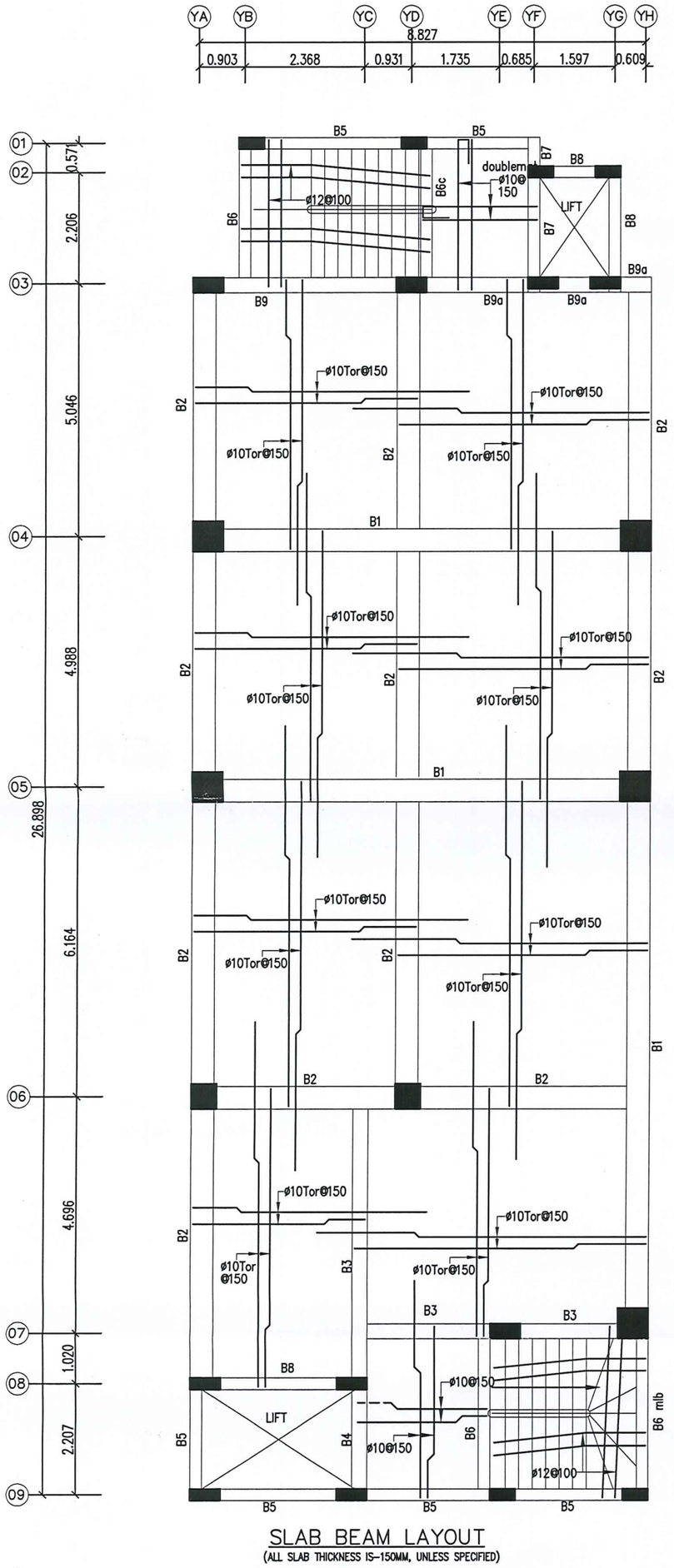
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



SLAB BEAM LAYOUT

(ALL SLAB THICKNESS IS–150MM, UNLESS SPECIFIED)

Notes :

1. All dimensions are in metres.
2. This drawing shall be read in conjunction with relevant architectural drawing.
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix as shown :
   for Pile – M40 (Cement Content 400 kg/m3)
   for Pile Cap & PB – M40 (Cement Content 400kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Reinforcement : TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
6. Clear concrete cover to main bars :
   for footings – 50mm ; for columns – 40mm;
   for pile – 50mm , for pile cap – 75mm ;
   For plinth beams – 25mm
7. Use stone aggregates and sand conforming to IS 383(latest revision)
   stone aggregate size – 20mm and down grade
8. Use good water for concrete mixing and curing conforming to IS 456(latest revision)
9. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 (latest revision) for 53 grade cement.
10. Piles shall be bored and under reamed as accurately as possible.
11. For construction of piles (Boring and under reaming control of alignment, method of concreting, finishing pile heads, estimation of concrete quantity, etc.) Refer I.S 2911 (PART–III) latest edition.
12. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
13. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
14. Piles are designed for loads from G floor+ 5 floors+weight of pile cap.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD
R1.	–	–		

SLAB BEAM LAYOUT.

JOB NO : –	DRAWN : –
DRG.NO: S–03	DESIGNED : –
DATE : –	

PROJECT :

Plan showing the proposed construction of stilt + 5 floors Office cum residential building with one dwelling unit at old door No:12, new no:5, plot no:270 C, E-block, 1st street, Anna nagar east, Chennai-600 102. In T.S.no:118 part (as per doc), old s.no:44/ 1 part, 44 /4 part and 46 part, T.S.no:118/8 (as per patta) block no:1, of Periyakudal village, Aminjikarai Taluk, within the limit of greater Chennai Corporation, Zone : VIII, division - 101

STRUCTURAL CONSULTANT

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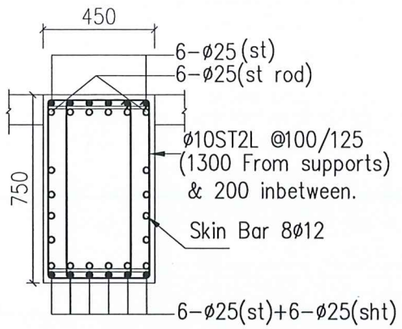
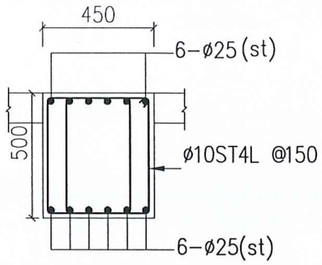
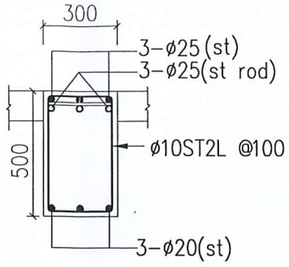
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



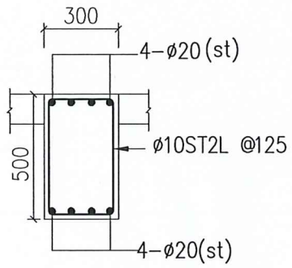
C.S OF B1



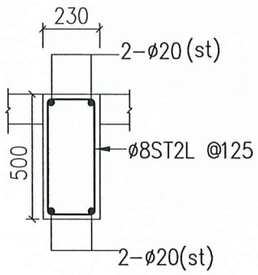
C.S OF B2



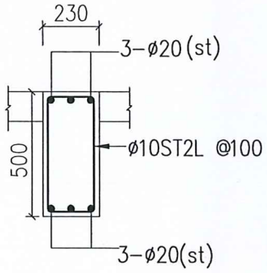
C.S OF B4



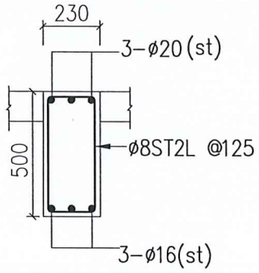
C.S OF B3



C.S OF B5



C.S OF B6



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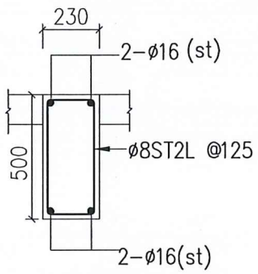
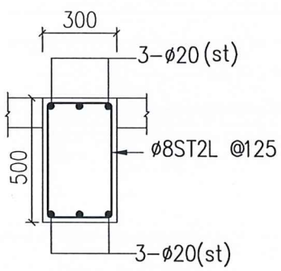
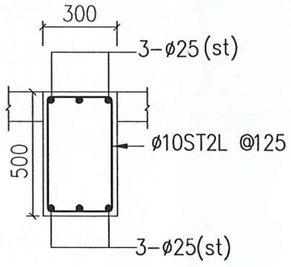


C.S OF B8



C.S OF B9



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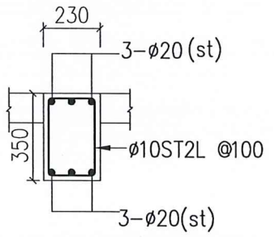

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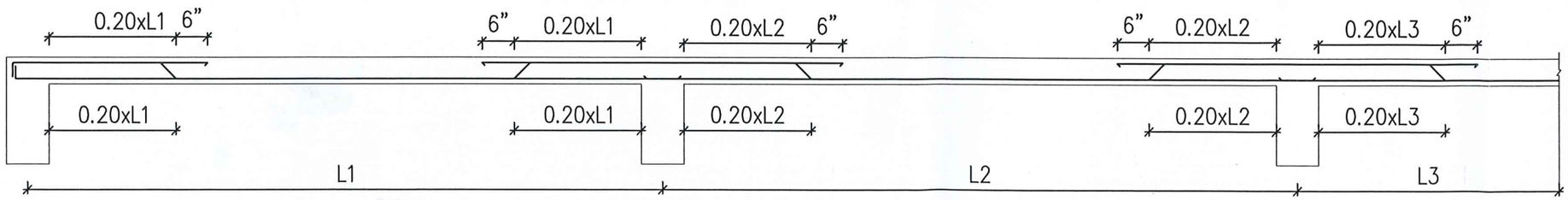

TYPICAL SLAB ROD BENDING DETAILS.

Notes :

1. All dimensions are in metres.
2. This drawing shall be read in conjunction with relevant architectural drawing.
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix as shown :
   for Pile – M40 (Cement Content 400 kg/m3)
   for Pile Cap & PB – M40 (Cement Content 400kg/m3)
   - Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   - If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
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   for pile – 50mm , for pile cap – 75mm ;
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8. Use good water for concrete mixing and curing conforming to IS 456(latest revision)
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13. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
14. Piles are designed for loads from G floor+ 5 floors+weight of pile cap.

–	–	–		
REV.	DATE	REVISION NOTE NO	SIGN	CHKD

RCC DETAILS OF SLAB BEAM.

JOB NO :–	DRAWN : –
DRG.NO: S–04	DESIGNED : –
DATE : –	

PROJECT :

Plan showing the proposed construction of stilt + 5 floors Office cum residential building with one dwelling unit at old door No:12, new no:5, plot no:270 C, E-block, 1st street, Anna nagar east, Chennai-600 102. in T.S.no:118 part (as per doc), old s.no:44/ 1 part, 44 /4 part and 46 part, T.S.no:118/8 (as per patta) block no:1, of Periyakudal village, Aminjikarai Taluk, within the limit of greater Chennai Corporation, Zone : VIII, division - 101

STRUCTURAL CONSULTANT

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No.23, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.