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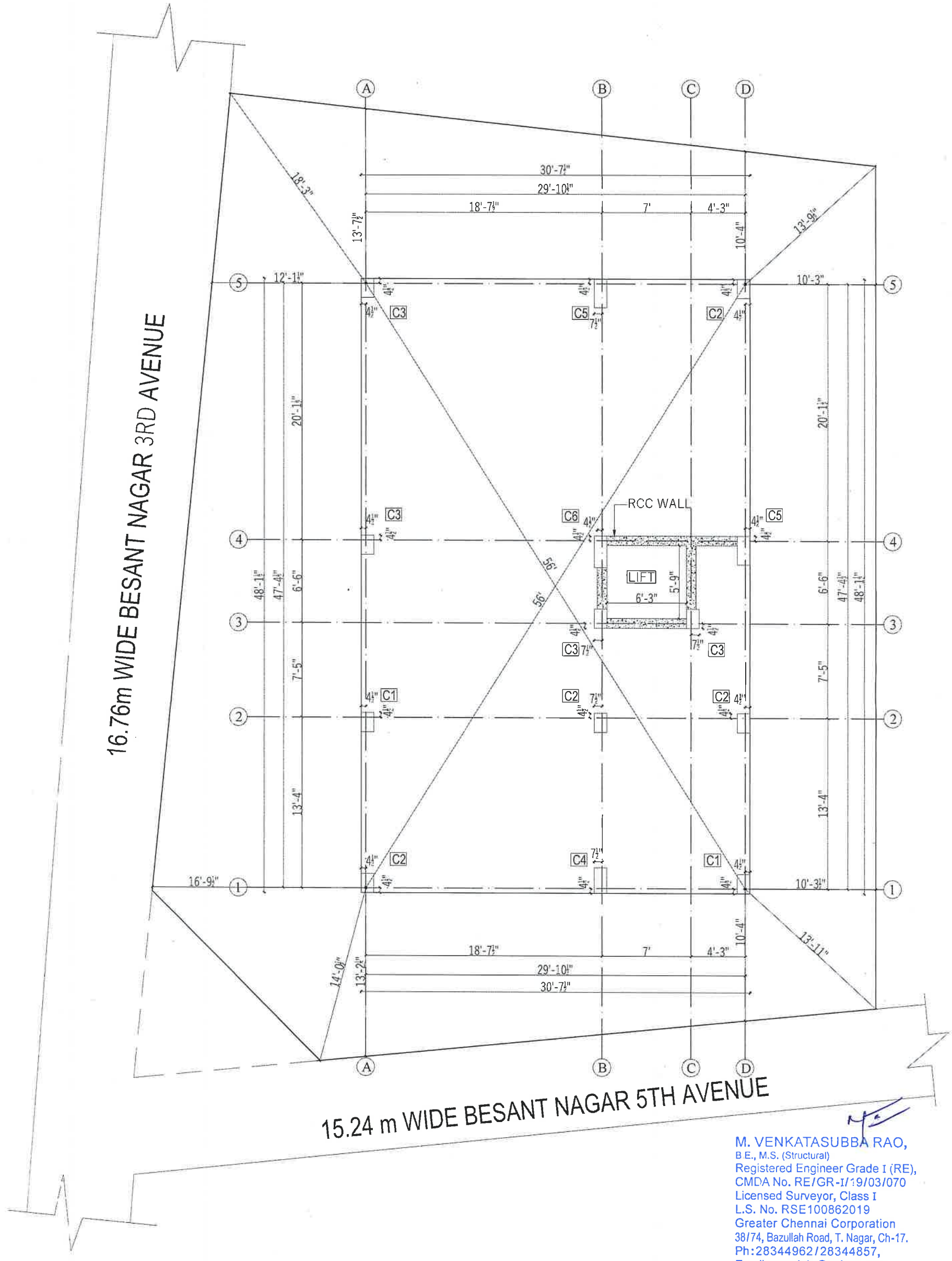
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PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS COMMERCIAL CUM RESIDENTIAL BUILDING (1ST TO 3RD FLOOR+4TH FLOOR(PART)- OFFICE USE & 4TH FLOOR(PART)+5TH FLOOR- RESIDENTIAL) (HEIGHT-18.30M) WITH 2 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO.7A, OLD DOOR NO.1, NEW DOOR NO.7A, 3RD AVENUE & 5TH AVENUE, BESANT NAGAR, CHENNAI COMPRISED IN OLD S.NO.12 PART, T.S.NO.1/2, BLOCK NO.16 OF URUR VILLAGE

GREATER CHENNAI CORPORATION.
ZONE:NO - XIII , DIVISION .NO. 174
EARLIER APPROVED NO:
B.A.NO - CEBA/WDCN 13/00013/2020 DATED : 22/01/2020
P.P.A.NO - PP/SB/S/0246/2019 DATED : 21/06/2019

STAGE:	STRUCTURAL DRAWING	
DESIGN BY:	HARISH	CHECKED BY:
DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	CENTERLINE DRAWING	

AUDISESHAIAH & SONS
ARCHITECTS, ENGINEERS & PROJECT MANAGEMENT CONSULTANTS
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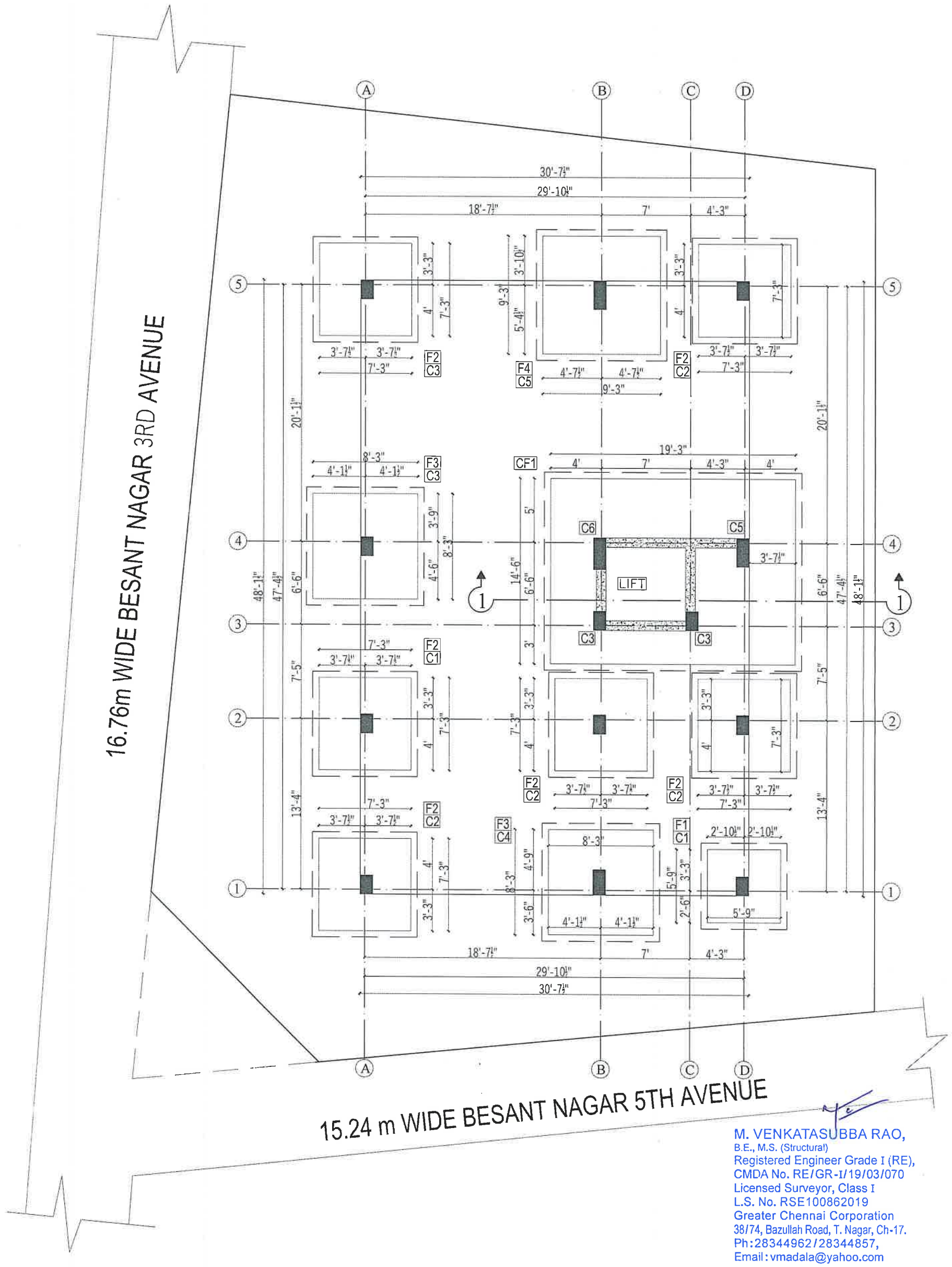
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DRAWING NO:ST-1
REVISION NO:R0

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

Z:\2023 PROJECTS\2023 037 -SHANTHA KUMAR -BESENT NAGAR\STABILITY DRWG\STABILITY DRAWING.dwg



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DESIGN BY:	HARISH	CHECKED BY:	
DRAWN BY:	HARISH	VENKAT	
PROJECT NO:	2023 037	DATE: 11.10.23	
BLDG/BLOCK:	COMMERCIAL BUILDING		
FLOOR:	FOUNDATION DRAWING		

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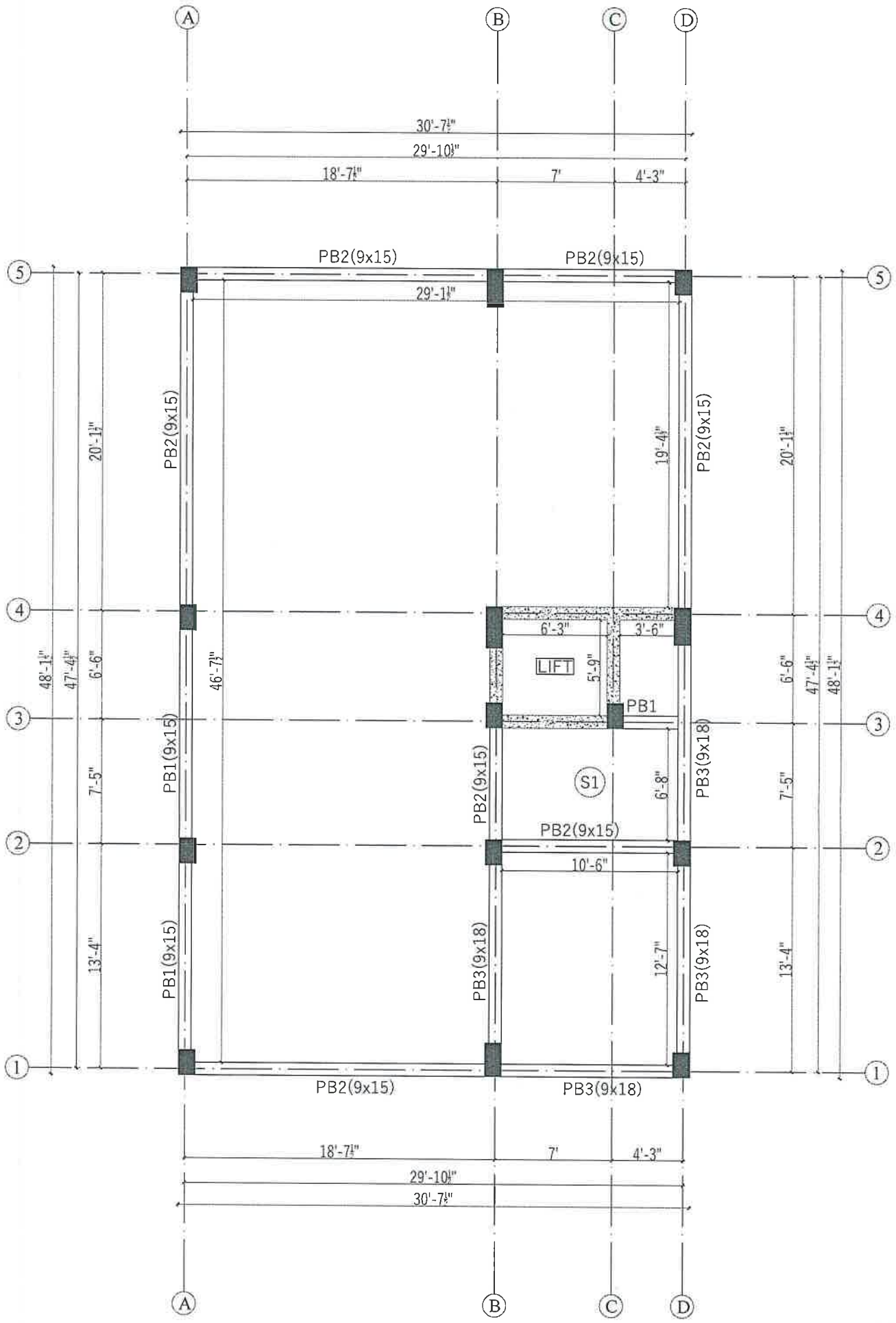
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DRAWING NO:ST-2

REVISION NO:R0



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DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	PLINTH BEAM DRAWING	

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N W E S

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REVISION NO:R0

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COLUMN SCHEDULE (M25)

NAME	COLUMN LOCATIONS	REINFORCEMENT DETAILS						COLUMN TIES	NO.OF COLUMNS
		UPTO STILT FLOOR ROOF	STILT TO SECOND FLOOR ROOF	SECOND TO (III,IV,V) FLOOR ROOF LVL	UPTO STILT FLOOR ROOF	STILT TO SECOND FLOOR ROOF	SECOND TO (III,IV,V) FLOOR ROOF LVL		
C1	A2 - D1	1'-6" x 1'-0" ● (8) - 20Ø	1'-6" x 9" ● (8) - 20Ø	1'-6" x 9" ● (8) - 20Ø	① ② 2-TIES	① ② 2-TIES	① ② 2-TIES	8Ø @ 8"c/c	02
C2	A1 - B2 D2 - D5	1'-6" x 1'-0" ● (8) - 25Ø	1'-6" x 9" ● (8) - 25Ø	1'-6" x 9" ● (8) - 25Ø	① ② 2-TIES	① ② 2-TIES	① ② 2-TIES	8Ø @ 8"c/c	04
C3	A4 - A5 B3 - C3	1'-6" x 1'-0" ● (8) - 25Ø + ○ (2) - 20Ø	1'-6" x 9" ● (8) - 25Ø + ○ (2) - 20Ø	1'-6" x 9" ● (8) - 25Ø + ○ (2) - 20Ø	① ② ③ 3-TIES	① ② ③ 3-TIES	① ② ③ 3-TIES	8Ø @ 8"c/c	04
C4	B1	2'-0" x 1'-0" ● (12) - 25Ø	2'-0" x 9" ● (12) - 25Ø	2'-0" x 9" ● (10) - 25Ø	① ② ③ 3-TIES	① ② ③ 3-TIES	① ② 3-TIES	8Ø @ 8"c/c	01
C5	B5 - D4	2'-3" x 1'-0" ● (14) - 25Ø	2'-3" x 9" ● (14) - 25Ø	2'-3" x 9" ● (14) - 25Ø	① ② ③ ④ 4-TIES	① ② ③ ④ 4-TIES	① ② ③ ④ 4-TIES	8Ø @ 8"c/c	02
C6	B4	2'-6" x 1'-0" ● (16) - 25Ø	2'-6" x 9" ● (16) - 25Ø	2'-3" x 9" ● (10) - 20Ø	① ② ③ ④ 4-TIES	① ② ③ ④ 4-TIES	① ② ③ 4-TIES	8Ø @ 8"c/c	01
								TOTAL	14

FOOTING DETAILS (M25)

NAME	FOOTING LOCATION	FOOTING SIZE	DEPTH		REINFORCEMENT (BOTHWAYS)		NO OF FOOTINGS
		L x B	"D"	"d"	BAR -1	BAR -2	
F1	D1	5'-9" x 5'-9"	18"	12"	10@ 6" c/c	10@ 6" c/c	01
F2	A1 - A2 - A5 B2 - D2 - D5	7'-3" x 7'-3"	18"	12"	12@ 6" c/c	12@ 6" c/c	06
F3	A4 - B1	8'-3" x 8'-3"	21"	12"	16@ 6" c/c	16@ 6" c/c	02
F4	B5	9'-3" x 9'-3"	24"	12"	16@ 6" c/c	16@ 6" c/c	01
						TOTAL	10

COMBINED FOOTING DETAILS (M25)

NAME	FOOTING LOCATION	FOOTING SIZE	DEPTH		REINFORCEMENT (BOTHWAYS)		NO OF FOOTINGS
		L x B	"D"	"d"	BAR -1	BAR -2	
CF1	B3 - B4 C3 - D4	14'-6" x 19'-3"	24"	-	TOP		01
					12@ 6" c/c	12@ 6" c/c	
					BOTTOM		
					16@ 6" c/c	16@ 6" c/c	
						TOTAL	01

PLINTH BEAM DETAILS (M25)

NAME	SIZE	TOP			BOTTOM		STIRRUPS	
		BAR-1	BAR-2	BAR-3	BAR-4	BAR-5	BAR-6	BAR-7
		CONT.	L/4 - SUP	2L/4-MIDSUP	CONT.	3L/4-MID	L/4 - SUP	L/2-MID SUP
B1	9" x 15"	(2) - 12Ø	-	-	(2) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B2	9" x 15"	(2) - 12Ø	(1) - 12Ø	(1) - 12Ø	(2) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B3	9" x 18"	(2) - 16Ø	(1) - 12Ø	(1) - 12Ø	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c

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STAGE:	STRUCTURAL DRAWING	
DESIGN BY:	HARISH	CHECKED BY:
DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	FOUNDATION REINFT DETAIL	

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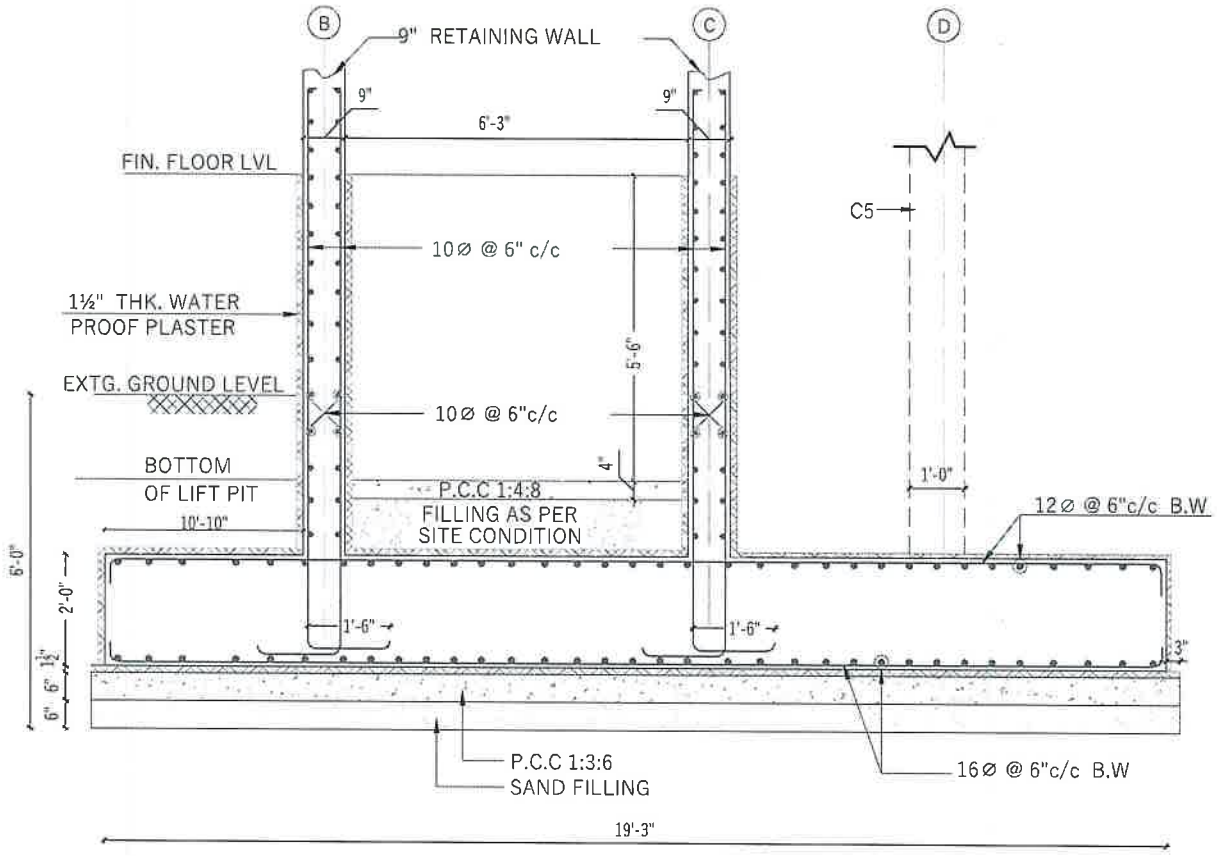
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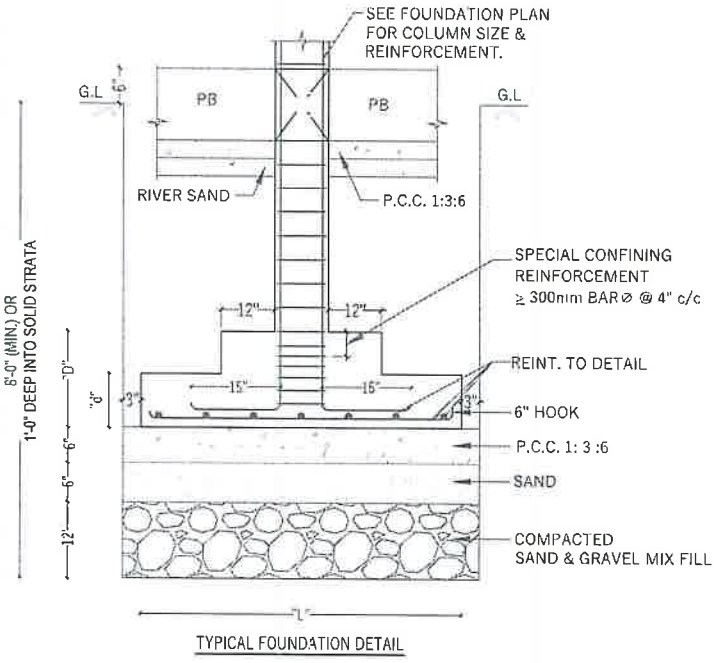
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DRAWING NO:ST-4

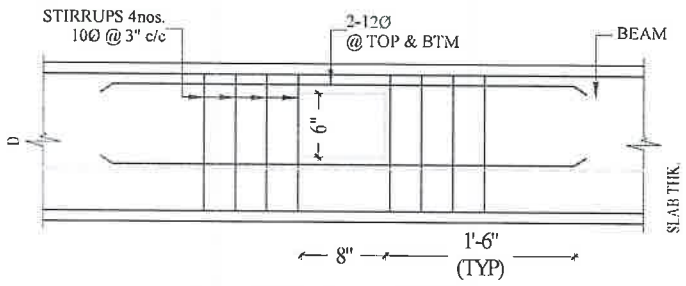
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SECTION 1-1



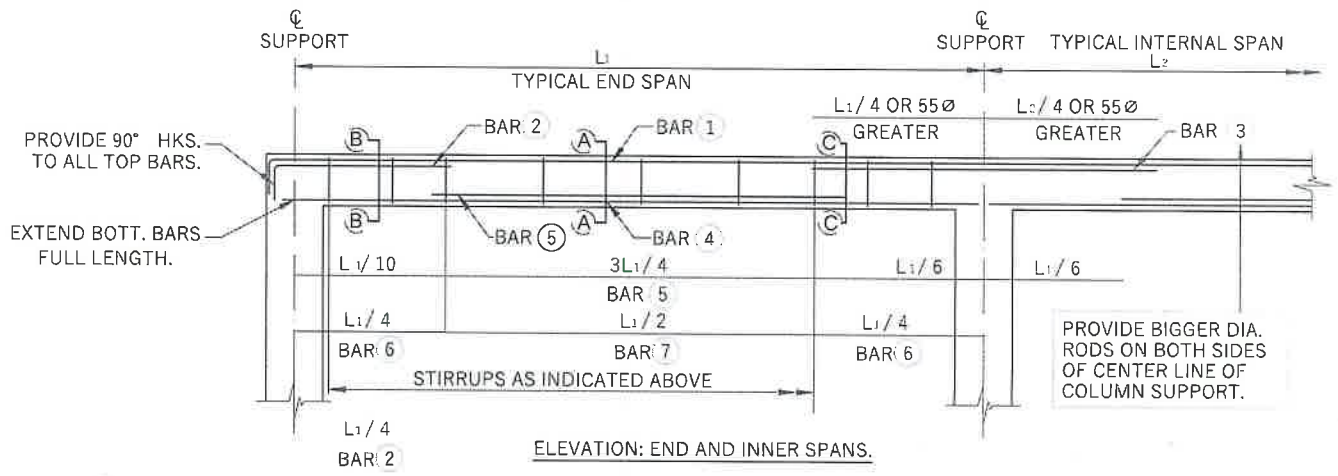
TYPICAL FOUNDATION DETAIL



TYP. DETAILS FOR SLEEVES

IN FLOOR BEAMS FOR SANITARY PIPES.

(LOCATION SHALL BE AS PER SANITARY DWG.)



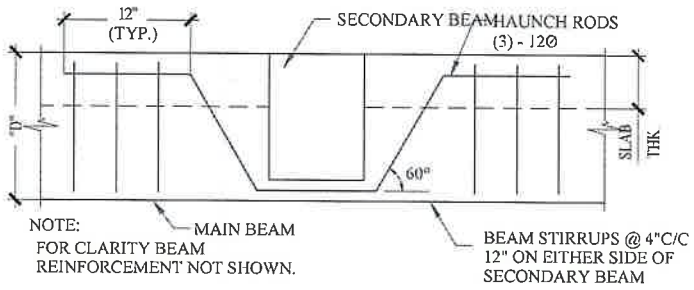
ELEVATION: END AND INNER SPANS.

BAR (?) - SEE BEAM SCHEDULE FOR BAR SIZES

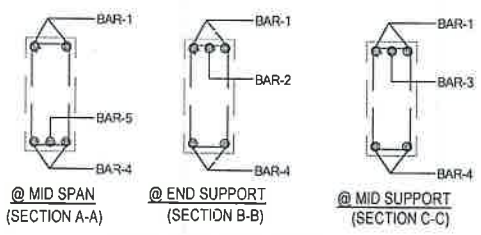
REFER TO PLANS FOR REQUIRED REINFORCEMENT.

REINF. COVER TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

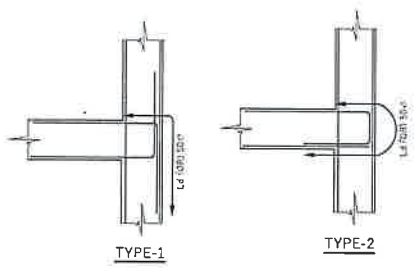
TYPICAL BEAM REINFT. LAYOUT DETAIL



HAUNCH DETAIL AT BEAM INTERSECTIONS



TYPICAL BEAM CROSS SECTION



TYPICAL DETAIL - DEVELOPMENT LENGTH

NOTES:
1. USE CONCRETE MIX M25 FOR COLUMN
2. USE CONCRETE MIX 1:1.2 (M30) FOR FOUNDATION AND PLINTH BEAM
3. USE STEEL GRADE Fe 500
4. USE VIBRATOR FOR ALL CONCRETING WORKS
5. USE MIN. LAP LENGTH OF 55ø FOR ALL RODS
6. THE WATER USED FOR CONCRETE SHOULD BE POTABLE (PH-7).
7. REMOVE BENDS IN ALL RODS (EXCEPT 6MM RODS).
8. AVOID LAPPING AT TENSION PORTIONS.
9. THE GAP BETWEEN THE TWO LAYERS OF REINFORCEMENT SHOULD BE MAINTAINED BY PROVIDING SPACER RODS (DISTANCE SHOULD NOT BE MORE THAN DIA. OF BAR OR 1").
10. CONCRETING NOT PERMITTED WITHOUT THE PERMISSION / APPROVAL/SITE INSPECTION FROM / BY STRUCTURAL ENGINEER.
11. ø - INDICATES BAR DIAMETER IN mm.
12. COVER FOR FOUNDATION 3" (75 mm)
13. COVER FOR COLUMN 1½" (40 mm)

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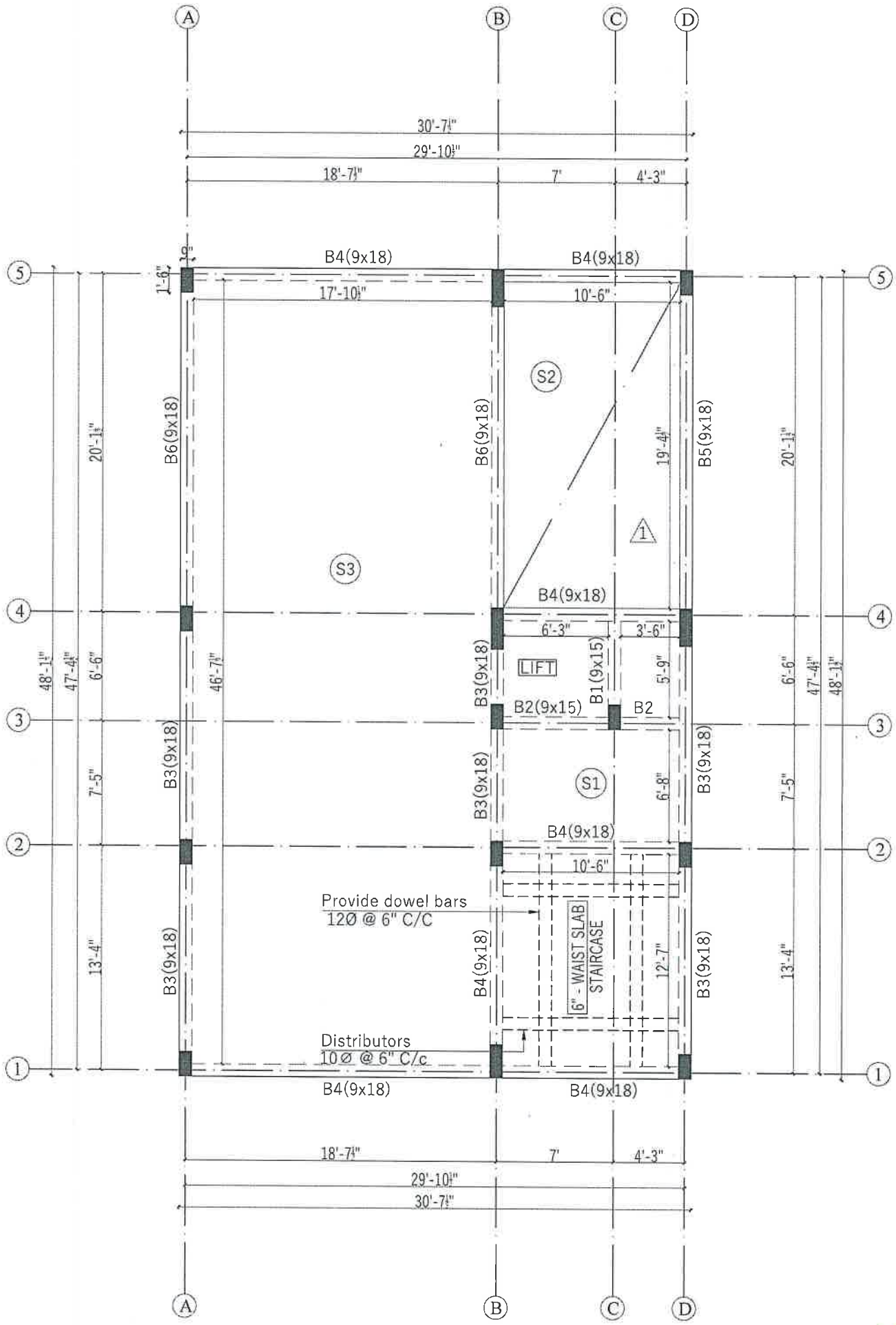
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N W E S

DRAWING NO:ST-5

REVISION NO:R0



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GREATER CHENNAI CORPORATION.
ZONE:NO - XIII , DIVISION .NO. 174
EARLIER APPROVED NO:
B.A.NO - CEBA/WDCN 13/00013/2020 DATED : 22/01/2020
P.P.A.NO - PP/SB/S/0246/2019 DATED : 21/06/2019

STAGE:	STRUCTURAL DRAWING	
DESIGN BY:	HARISH	CHECKED BY:
DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	STILT,I,II,III,IV FLOOR ROOF BEAM DRAWING	

AUDISESHAIAH & SONS
ARCHITECTS, ENGINEERS & PROJECT MANAGEMENT CONSULTANTS
38/74, BAZULLAH ROAD, MASS TOWER, FIRST FLOOR, T. NAGAR, CHENNAI – 600 017.
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N W E S

DRAWING NO:ST-6

REVISION NO:R0

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

Z:\2023 PROJECTS\2023 037 -SHANTHA KUMAR -BESENT NAGAR\STABILITY DRWG\STABILITY DRAWING.dwg

LEGEND:-

B? - E - BEAM TOP & BOTTOM BARS SHOULD BE EXTENDED

B? - E(T) - BEAM TOP BARS SHOULD BE EXTENDED

TYPICAL FLOOR ROOF BEAM DETAILS (M25)								
NAME	SIZE	TOP			BOTTOM		STIRRUPS	
		BAR-1	BAR-2	BAR-3	BAR-4	BAR-5	BAR-6	BAR-7
		CONT.	L/4 - SUP	2L/4-MIDSUP	CONT.	3L/4-MID	L/4 - SUP	L/2-MID SUP
B1	9" x 15"	(3) - 12Ø	-	-	(3) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B2	9" x 15"	(2) - 16Ø	-	-	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B3	9" x 18"	(2) - 16Ø	(1) - 16Ø	(1) - 16Ø	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B4	9" x 18"	(2) - 16Ø	(1) - 16Ø	(1) - 16Ø	(2) - 16Ø	(1) - 16Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B5	9" x 18"	(2) - 16Ø	(1) - 20Ø	(1) - 20Ø	(2) - 16Ø	(1) - 16Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B6	9" x 18"	(2) - 20Ø	(1) - 25Ø	(1) - 25Ø	(2) - 20Ø	(1) - 25Ø	8Ø @ 6" c/c	8Ø @ 8" c/c

TYPICAL FLOOR ROOF SLAB DETAILS (M25)				
SLAB ID.	THICKNESS (INCHES)	REINFORCEMENT		TYPE OF SLAB
		SHORT SPAN	LONG SPAN	
S1	5"	8Ø @ 6"c/c	8Ø @ 6"c/c	TWO WAY
S2	5.5"	8Ø @ 6"c/c	8Ø @ 6"c/c	TWO WAY
S2	8"	TOP		ONE WAY
		12@ 6" c/c	12@ 6" c/c	
		BOTTOM		
		16@ 6" c/c	16@ 6" c/c	

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3 - SUNKEN BY 3"

2 - SUNKEN BY 6"

1 - SUNKEN BY 10"

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS COMMERCIAL CUM RESIDENTIAL BUILDING (1ST TO 3RD FLOOR+ 4TH FLOOR(PART)- OFFICE USE & 4TH FLOOR(PART)+5TH FLOOR- RESIDENTIAL) (HEIGHT-18.30M) WITH 2 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO.7A, OLD DOOR NO.1, NEW DOOR NO.7A, 3RD AVENUE & 5TH AVENUE, BESANT NAGAR, CHENNAI COMPRISED IN OLD S.NO.12 PART, T.S.NO.1/2, BLOCK NO.16 OF URUR VILLAGE

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DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	STILT,I,II,III,IV FLOOR ROOF REIN.FT DETAIL	

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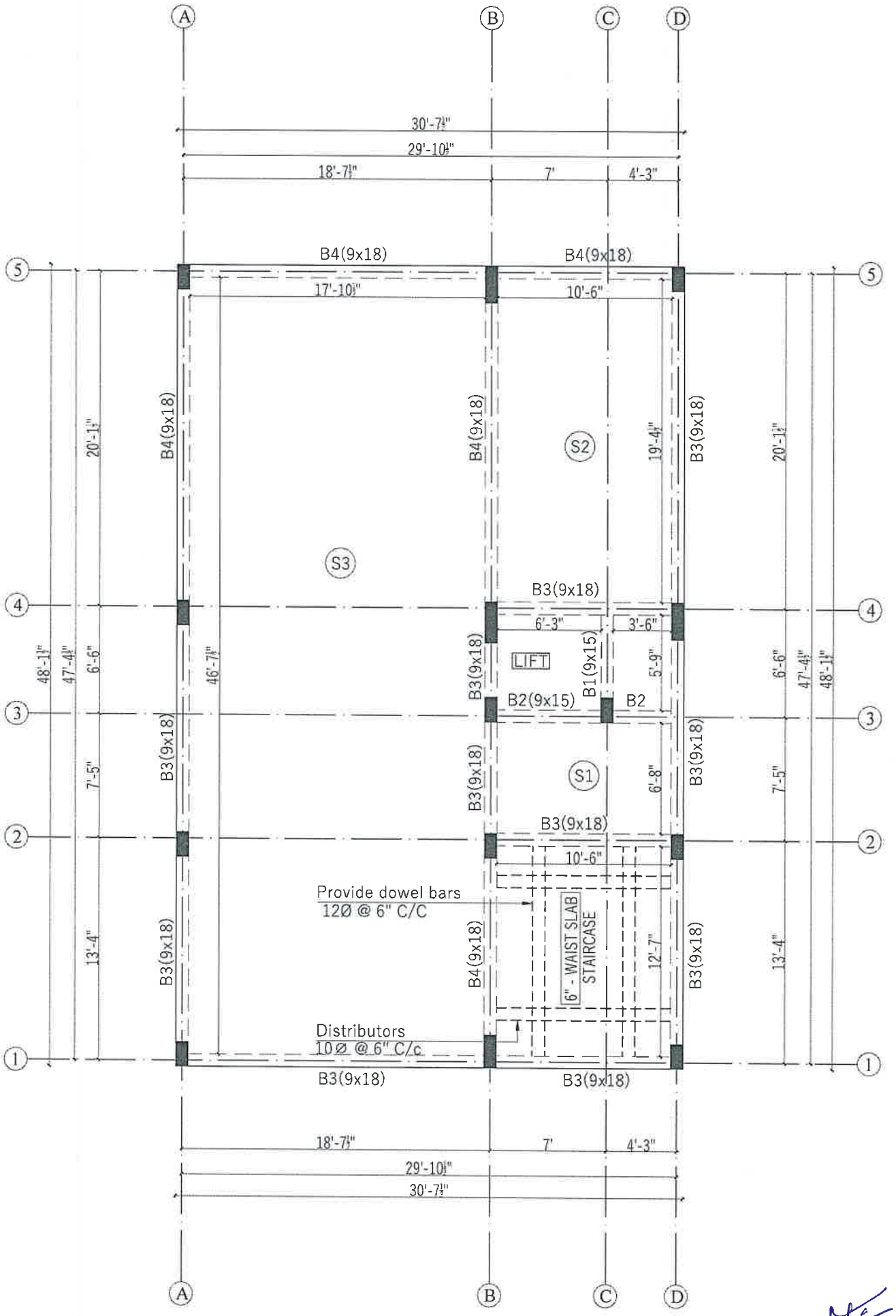
N W E S

DRAWING NO:ST-7

REVISION NO:R0

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS.IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER IFR OR APPROVAL

Z:\2023 PROJECTS\2023 037 -SHANTHA KUMAR -BESENT NAGAR\STABILITY DRWG\STABILITY DRAWING.dwg



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STAGE:	STRUCTURAL DRAWING	
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DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	FIFTH FLOOR ROOF BEAM DRAWING	

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Z:\2023 PROJECTS\2023 037 -SHANTHA KUMAR - BESENT NAGAR\STABILITY DRWGS\STABILITY DRAWING.dwg

N W E S

DRAWING NO:ST-8

REVISION NO:R0

LEGEND:-

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B? - E(T) - BEAM TOP BARS SHOULD BE EXTENDED

FINAL FLOOR ROOF BEAM DETAILS (M25)								
NAME	SIZE	TOP			BOTTOM		STIRRUPS	
		BAR-1	BAR-2	BAR-3	BAR-4	BAR-5	BAR-6	BAR-7
		CONT.	L/4 - SUP	2L/4-MIDSUP	CONT.	3L/4-MID	L/4 - SUP	L/2-MID SUP
B1	9" x 15"	(3) - 12Ø	-	-	(3) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B2	9" x 15"	(2) - 16Ø	-	-	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B3	9" x 18"	(2) - 16Ø	(1) - 16Ø	(1) - 16Ø	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B4	9" x 18"	(2) - 20Ø	(1) - 25Ø	(1) - 25Ø	(2) - 20Ø	(1) - 25Ø	8Ø @ 6" c/c	8Ø @ 8" c/c

FINAL FLOOR ROOF SLAB DETAILS (M25)				
SLAB ID.	THICKNESS (INCHES)	REINFORCEMENT		TYPE OF SLAB
		SHORT SPAN	LONG SPAN	
S1	5"	8Ø @ 6"c/c	8Ø @ 6"c/c	TWO WAY
S2	5.5"	8Ø @ 6"c/c	8Ø @ 6"c/c	TWO WAY
S2	8"	TOP		ONE WAY
		12@ 6" c/c	12@ 6" c/c	
		BOTTOM		
		16@ 6" c/c	16@ 6" c/c	

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STAGE:	STRUCTURAL DRAWING	
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DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	FIFTH FLOOR ROOF REIN.FT DETAIL	

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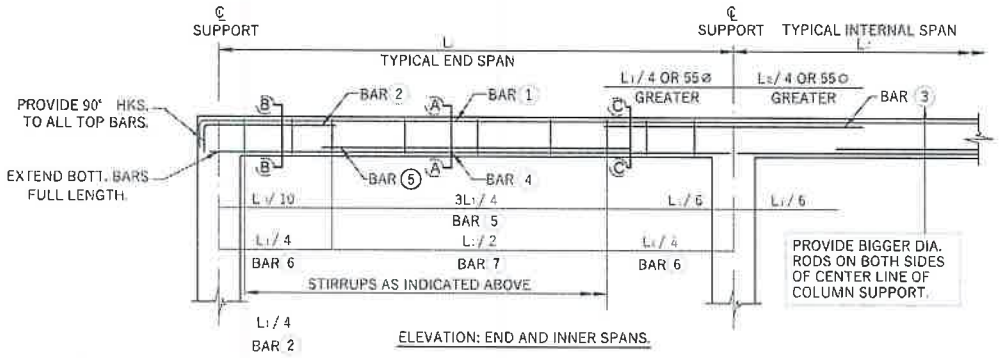
N W E S

DRAWING NO:ST-9

REVISION NO:R0

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS ITS USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

Z:\2023 PROJECTS\2023 037 -SHANTHA KUMAR -BESENT NAGAR\STABILITY DRWG\STABILITY DRAWING.dwg

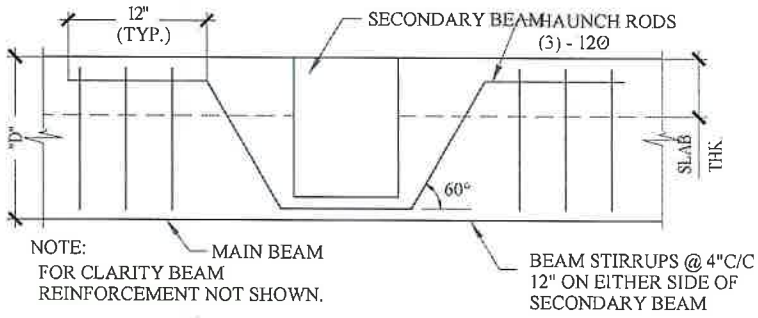


BAR ? - SEE BEAM SCHEDULE FOR BAR SIZES

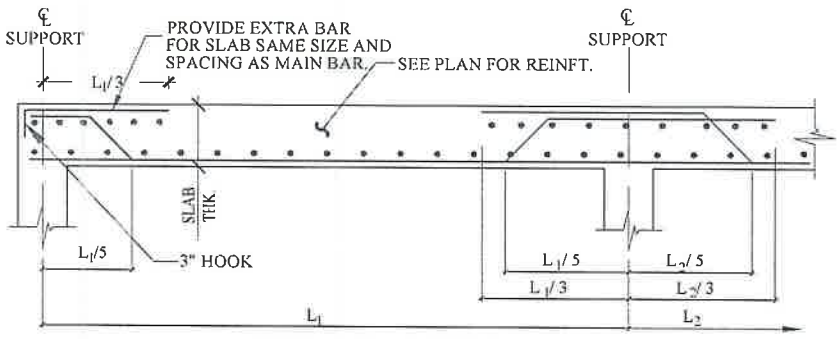
REFER TO PLANS FOR REQUIRED REINFORCEMENT.

REINF. COVER TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

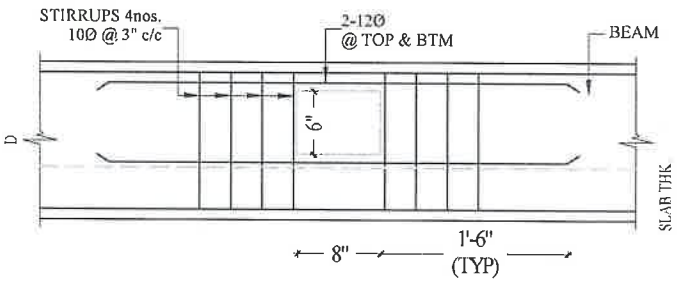
TYPICAL BEAM REINFT. LAYOUT DETAIL



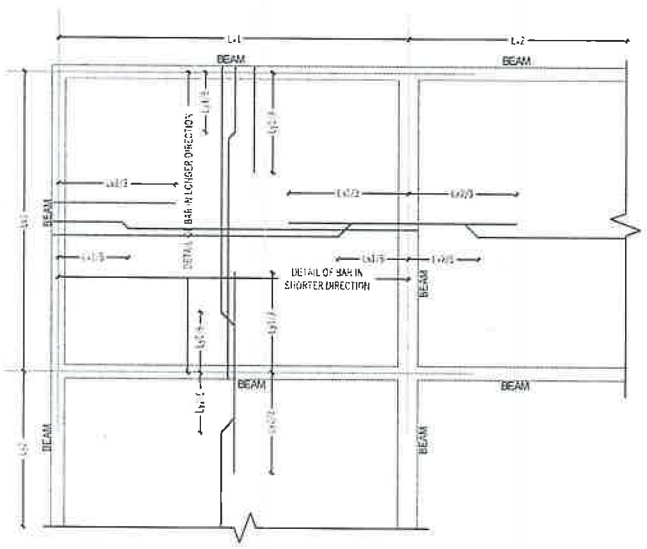
HAUNCH DETAIL AT BEAM INTERSECTIONS



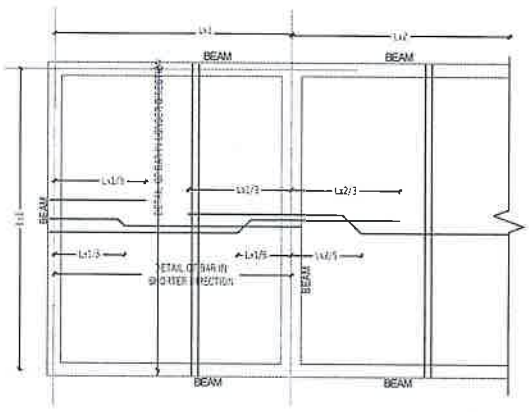
TYPICAL SLAB DETAIL



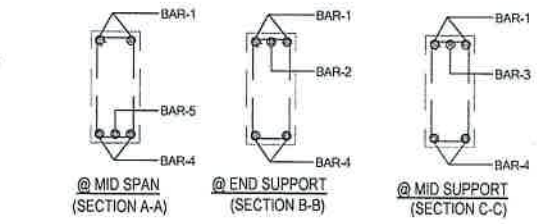
TYP. DETAILS FOR SLEEVES IN FLOOR BEAMS FOR SANITARY PIPES. (LOCATION SHALL BE AS PER SANITARY DWG.)



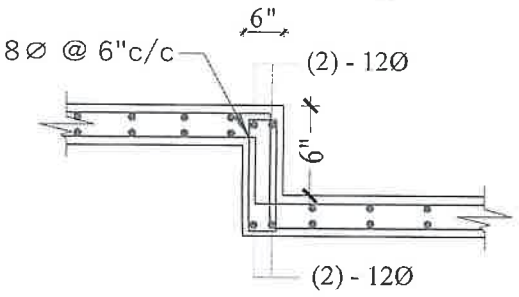
TYPICAL TWO WAY SLAB REINFORCEMENT DETAILS



TYPICAL ONE WAY SLAB REINFORCEMENT DETAILS



TYPICAL BEAM CROSS SECTION

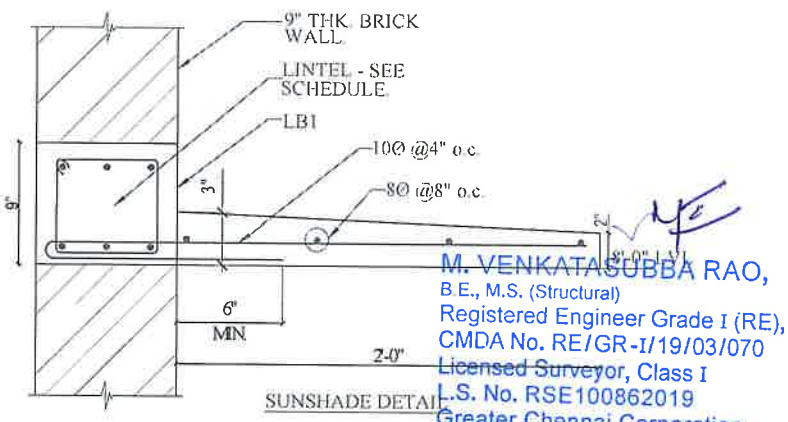


TYPICAL SERVICE SUNK DETAILS

SLAB SUNKEN (SECTION 1-1) REFER SHEET NO ST- 6

NOTE:-

1. USE CONCRETE MIX M25 (1 : 1 :2) FOR BEAMS & SLAB.
2. USE STEEL GRADE Fe 500.
3. USE VIBRATOR FOR ALL CONCRETING WORKS.
4. USE MIN. LAP LENGTH OF 55Ø FOR ALL RODS.
5. THE WATER USED FOR CONCRETE SHOULD BE POTABLE (PH-7).
6. REMOVE BENDS IN ALL RODS (EVEN IN 6MM RODS).
7. AVOID LAPPING AT TENSION PORTIONS.
8. THE GAP BETWEEN THE TWO LAYERS OF REINFORCEMENT SHOULD BE MAINTAINED BY PROVIDING SPACER RODS (DISTANCE SHOULD NOT BE MORE THAN DIA. OF BAR OR 1").
9. IN ALL CANTILEVER PORTION THE BEAM TOP RODS SHOULD BE EXTENDED.
10. Ø - INDICATES ROD DIAMETER IN MM.
11. CONCRETE MIX M25 (1:1:2) FOR COLUMN
12. COVER FOR COLUMN 1½"
13. COVER FOR BEAM 1"
14. COVER FOR SLAB ¾"
15. ALL SLABS ARE 5"TK UNLESS OTHERWISE SPECIFIED.
16. ALL SERVICE AREA SLABS SHOULD BE SUNKEN BY 3" UNLESS OTHERWISE NOTED.
17. CONCRETING NOT PERMITTED WITHOUT THE PERMISSION / APPROVAL/SITE INSPECTION FROM / BY STRUCTURAL ENGINEER.



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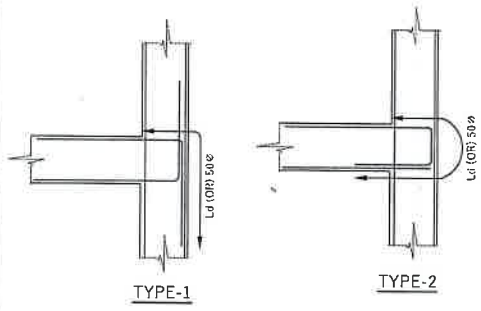
LINTEL NOTES

(8" MIN. BEARING EACH END.)

WHERE LINTELS ARE INDICATED ON THE ARCHITECTURAL PLANS THEY SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE.

1. CONCRETE BLOCK LINTEL SCHEDULE:

LINTEL SCHEDULE				
OPENING WIDTH	BEAM SIZE	REINFORCEMENT		STIRRUP SIZE
		TOP	BOTTOM	
UP TO 6'-0"	9" x 6" 4½" x 6"	(2) - 8Ø	(2) - 10Ø	8Ø @6" c/c
6'-0" TO 8'-0"	9" x 6"	(3) - 8Ø	(3) - 10Ø	8Ø @6" c/c
8'-0" TO 12'-0"	9" x 9"	(2) - 10Ø	(2) - 10Ø + (1) -12Ø	8Ø @6" c/c



TYPICAL DETAIL - DEVELOPMENT LENGTH

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DRAWN BY:	HARISH	VENKAT
PROJECT NO:	2023 037	DATE: 11.10.23
BLDG/BLOCK:	COMMERCIAL BUILDING	
FLOOR:	ROOF TYPICAL SECTION	

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N W E S

DRAWING NO:ST–10

REVISION NO:R0

Our services go beyond

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.

Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

Verified RealEstate™

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We're honored to be part of your
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