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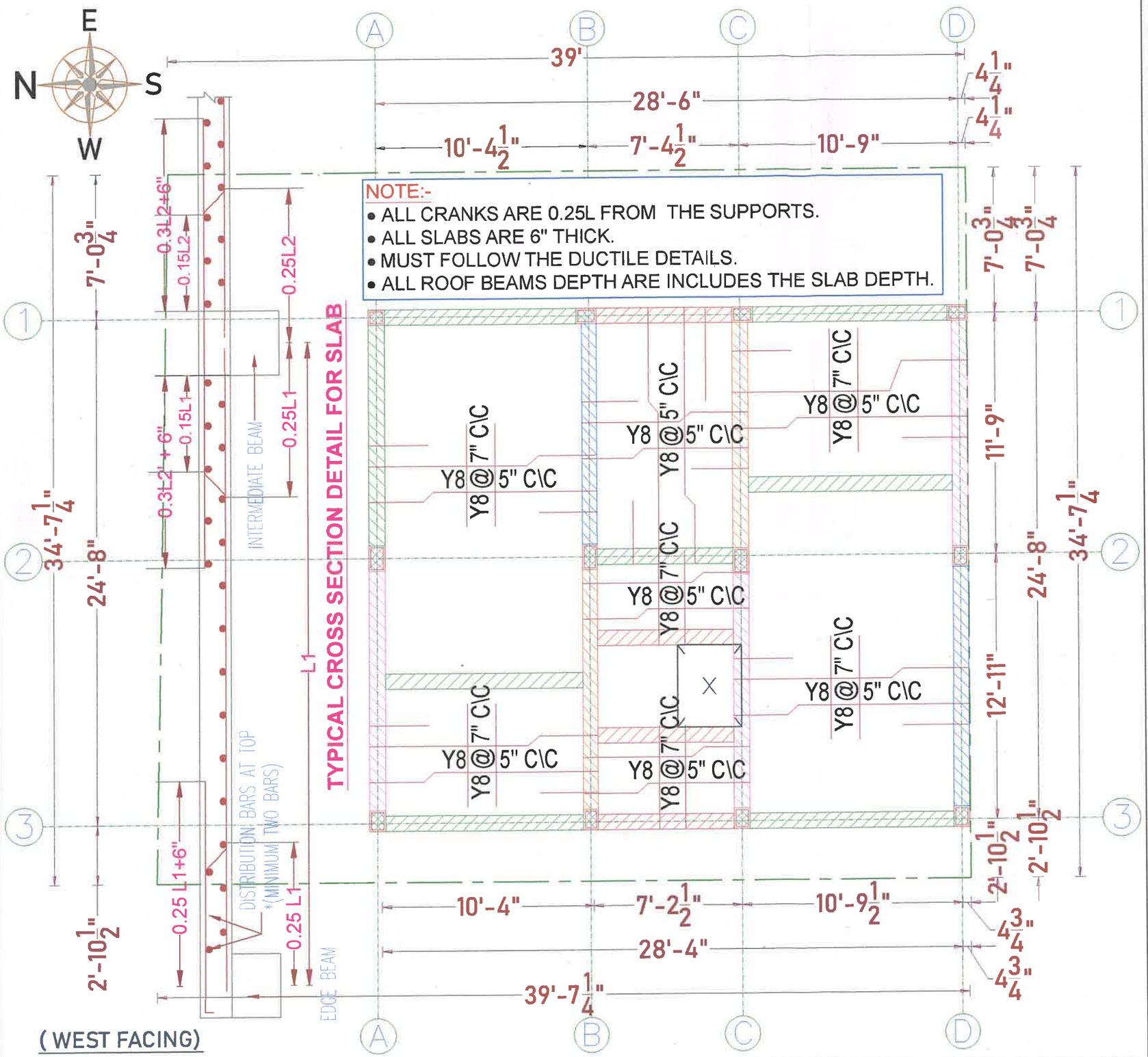
3/350/2 Mettukuppam,
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Drawn and Design: BHARATHI.R

Date : 10-04-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE: F.F.ROOF SLAB LAYOUT DETAILS.

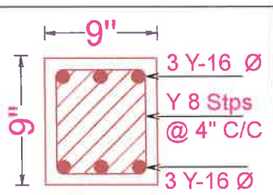
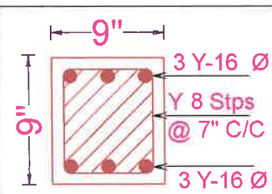
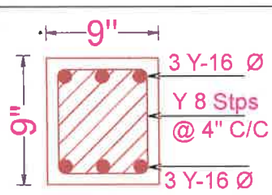
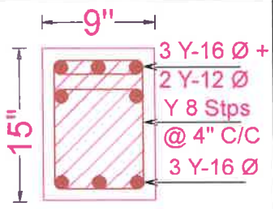
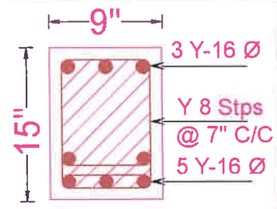
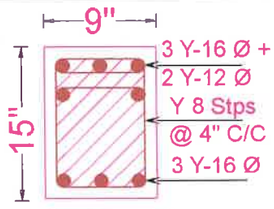
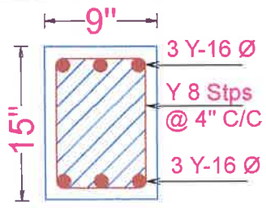
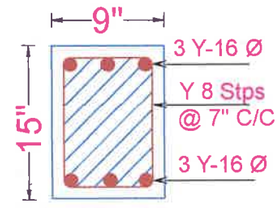
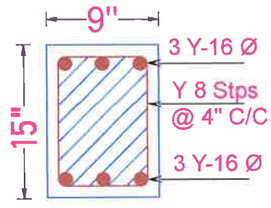
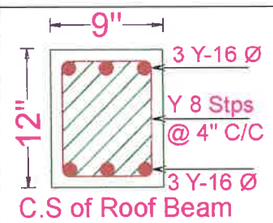
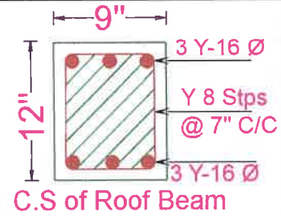
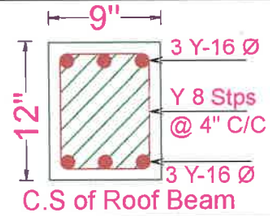
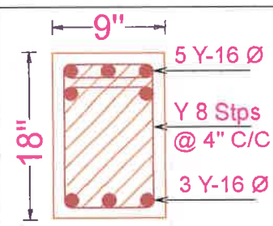
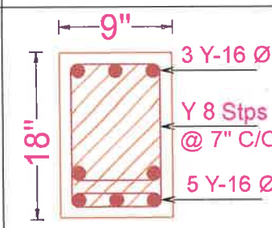
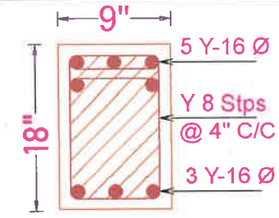
PROJECT: Mr. PRAGADEESH-
VILLAS AT TIRUPUR (VILLA - 06 TO 12).

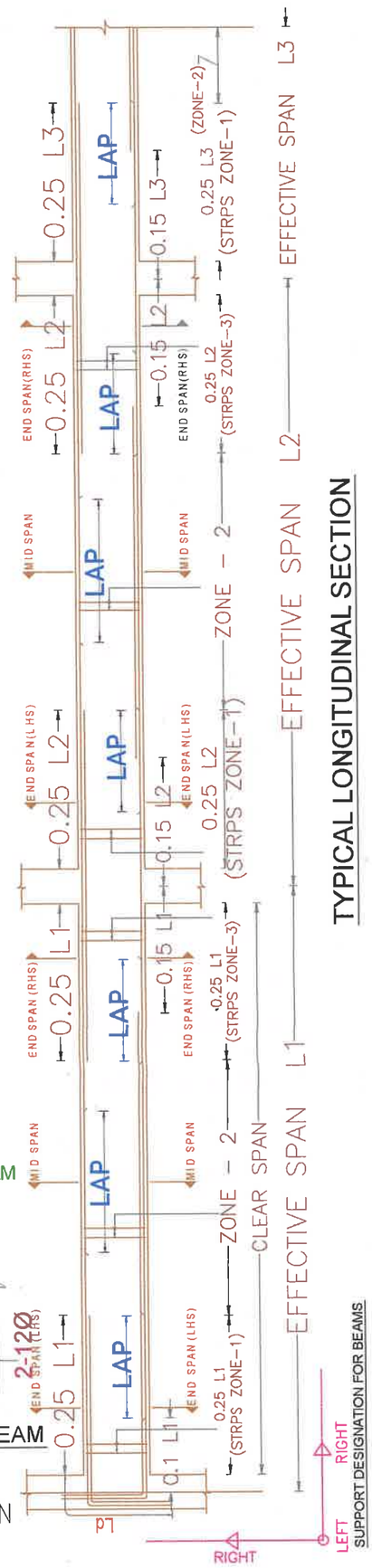
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph: 4321460779
STUDIO

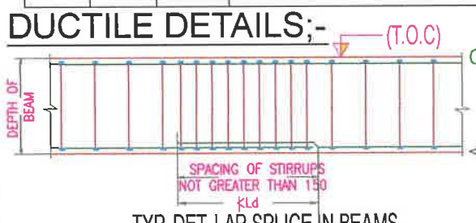
SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

ROOF BEAM REINFORCEMENT DETAILS:-

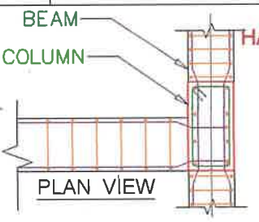
Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 9"	R.B- 1	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
2.	9" X 15"	R.B- 2	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
3.	9" X 15"	R.B- 3	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
4.	9" X 12"	R.B- 4	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
5.	9" X 18"	R.B- 5	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam



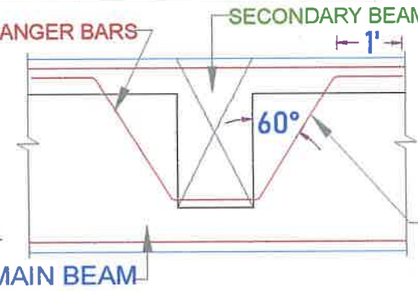
DUCTILE DETAILS;-



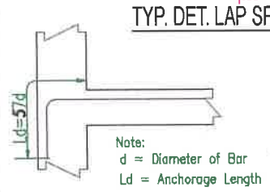
TYP. DET. LAP SPLICE IN BEAMS



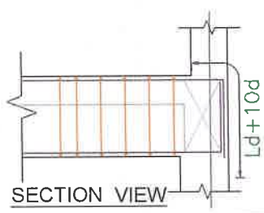
TYPICAL BEAM COLUMN JUNCTION



DET. OF HANGER BARS IN MAIN BEAM



Anchorage Length (Tension)



* Y –DIA OF RIBBED STEEL

* LEVELS TO BE FIXED ON SITE CONDITION

* REFER BOUNDARY CONDITIONS

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SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

Drawn and Design: BHARATHI.R

Date :10-04-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-1&2)

TITLE:- F.FLOOR ROOF BEAM REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-

Er.BALAJI.M.E.,(struct).,

ARCHITECT :

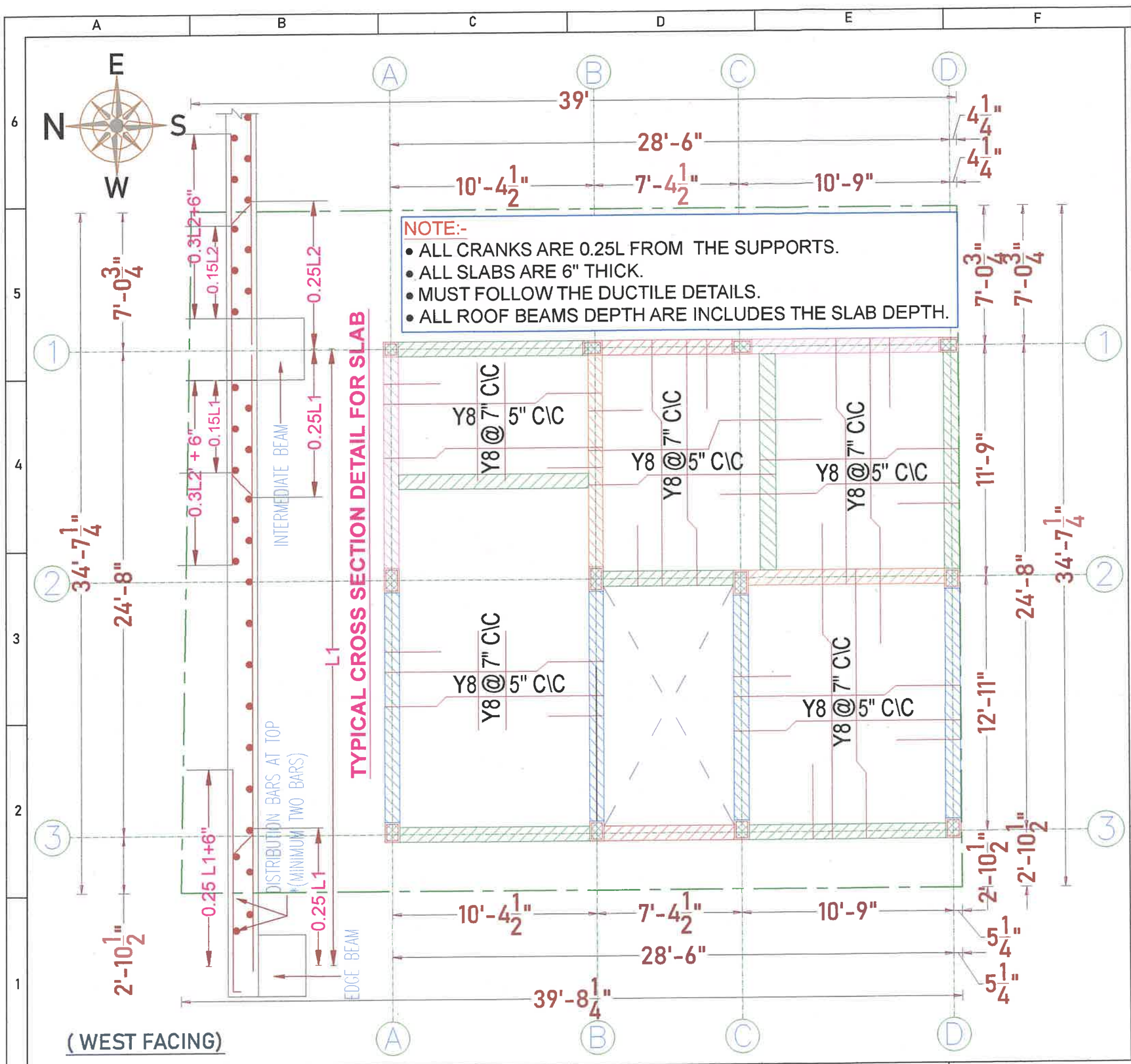
DNA STUDIO

Design n Architectural Studio India pvt ltd

110, 3rd Street, Robertson Road,

PM Swamy Colony, RS Puram,

Coimbatore 641002 ph : +422-4367779



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Drawn and Design: BHARATHI.R

Date : 10-04-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE: G.F.ROOF SLAB LAYOUT DETAILS.

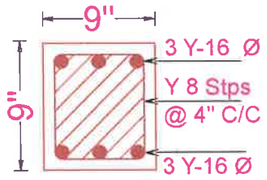
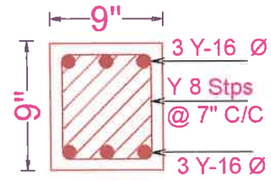
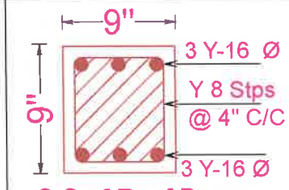
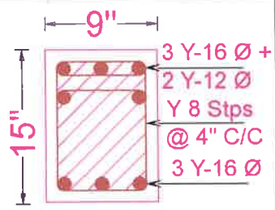
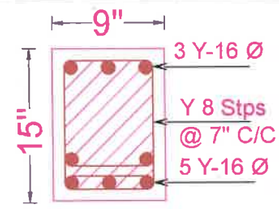
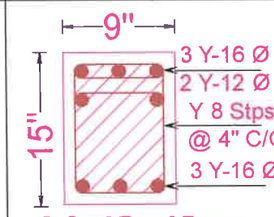
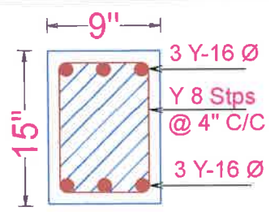
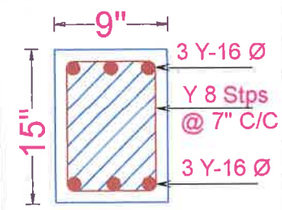
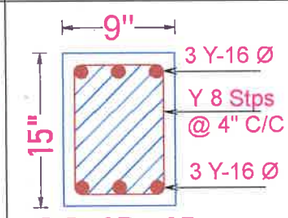
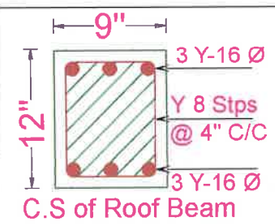
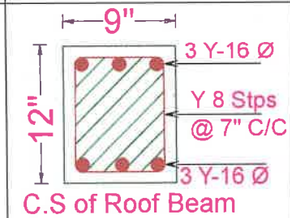
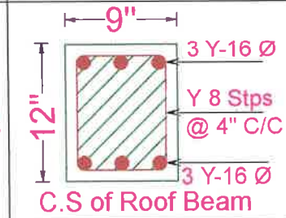
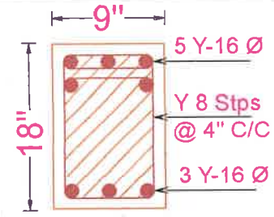
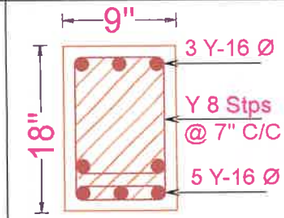
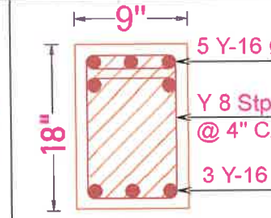
PROJECT: Mr. PRAGADEESH-
VILLAS AT TIRUPUR (VILLA - 06 TO 12).

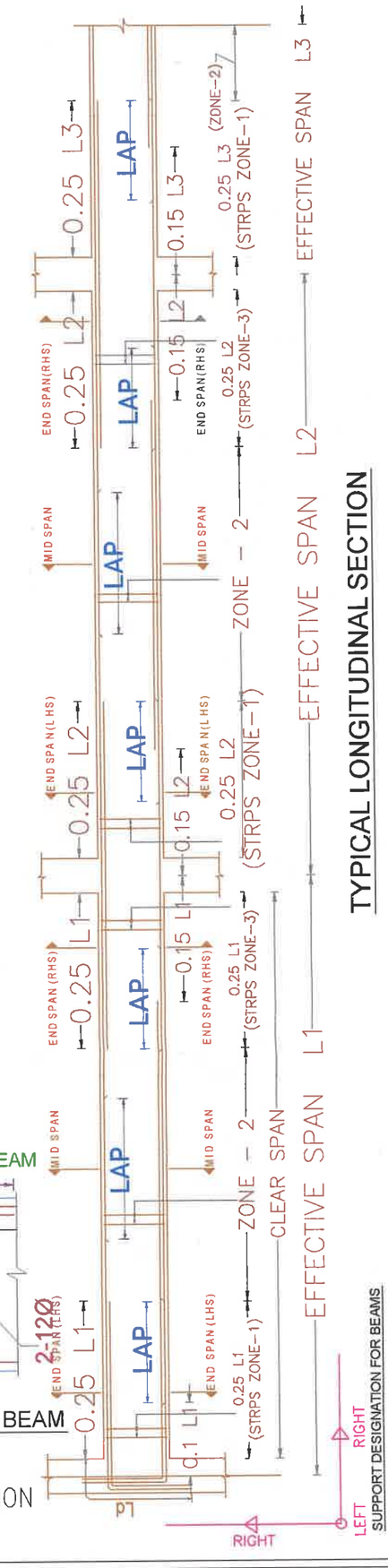
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

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STUDIO

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
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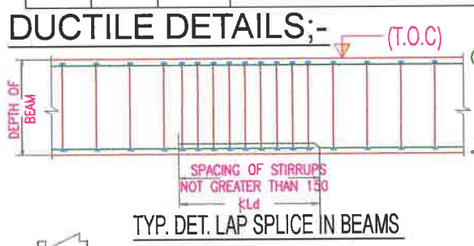
ROOF BEAM REINFORCEMENT DETAILS:-

Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 9"	R.B- 1	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
2.	9" X 15"	R.B- 2	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
3.	9" X 15"	R.B- 3	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
4.	9" X 12"	R.B- 4	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam
5.	9" X 18"	R.B- 5	 C.S of Roof Beam	 C.S of Roof Beam	 C.S of Roof Beam

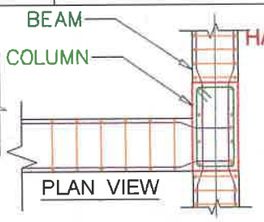


TYPICAL LONGITUDINAL SECTION

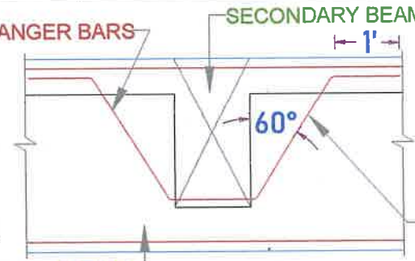
DUCTILE DETAILS;-



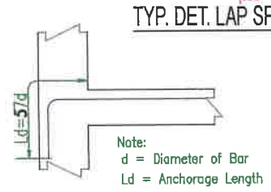
TYP. DET. LAP SPLICE IN BEAMS



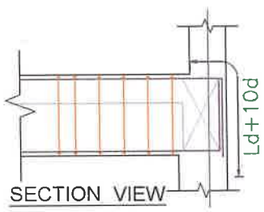
PLAN VIEW
TYPICAL BEAM COLUMN JUNCTION



MAIN BEAM
DET. OF HANGER BARS IN MAIN BEAM



Anchorage Length (Tension)



SECTION VIEW

* Y –DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
- IF FLOOR TO FLOOR IS MORE THAN 11' FEET MUST INFORMED TO THE STRUCTURAL ENGINEER FOR FURTHER ASSISTANCE.
- STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

Drawn and Design: BHARATHI.R

Date :10-04-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-1&2)

TITLE:- G.FLOOR ROOF BEAM REINFORCEMENT DETAILS.

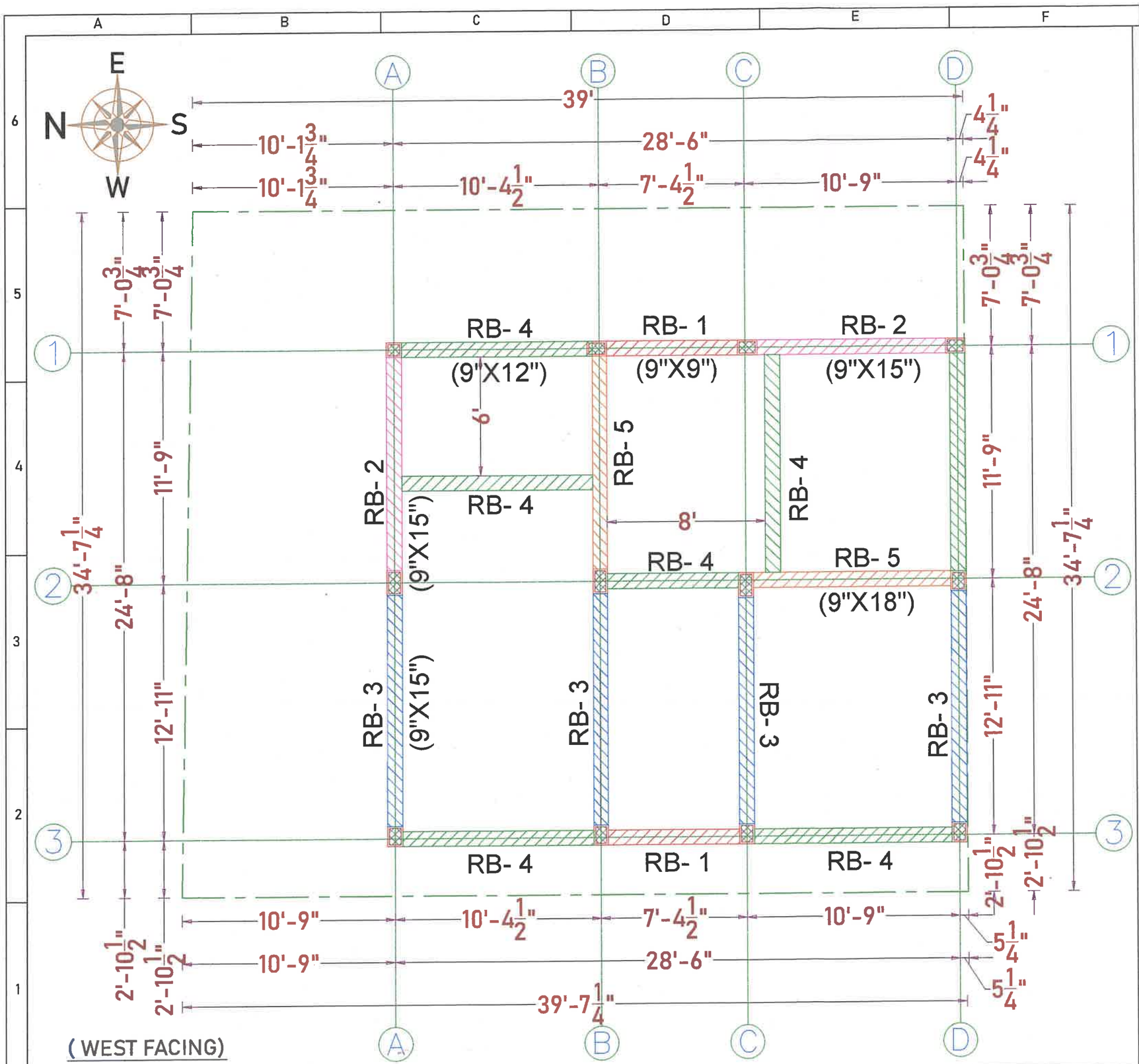
STRUCTURAL CONSULTANT:-

Er.BALAJI.M.E.,(struct).,

ARCHITECT :

Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4347779

SAI STRUCTURAL DESIGNS
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LPA/SE/GR-1/076/2024
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REFERENCE: –

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Drawn and Design: BHARATHI.R

Date : 10-04-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE: G.F.ROOF BEAM LAYOUT DETAILS.

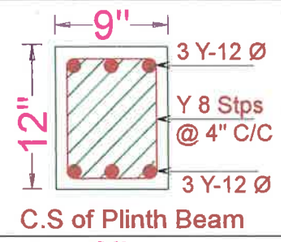
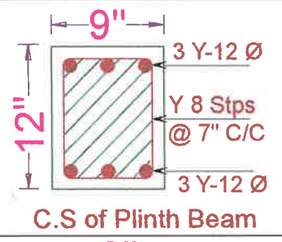
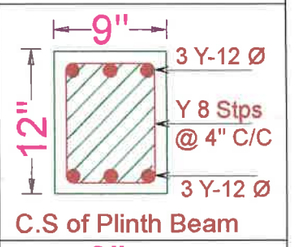
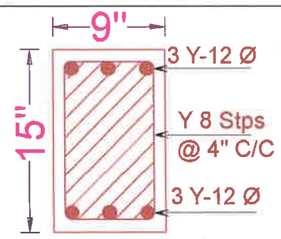
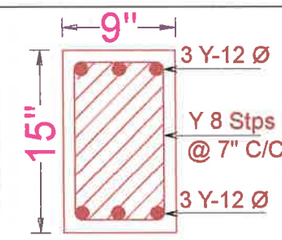
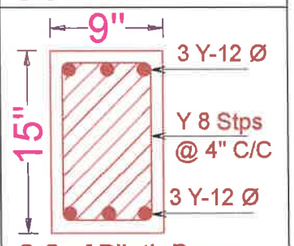
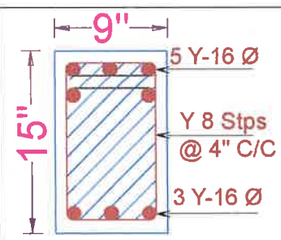
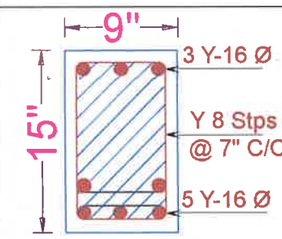
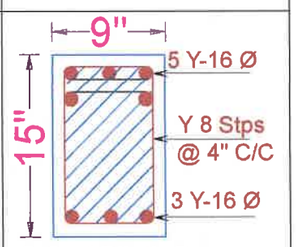
PROJECT: Mr. PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 06 TO 12).

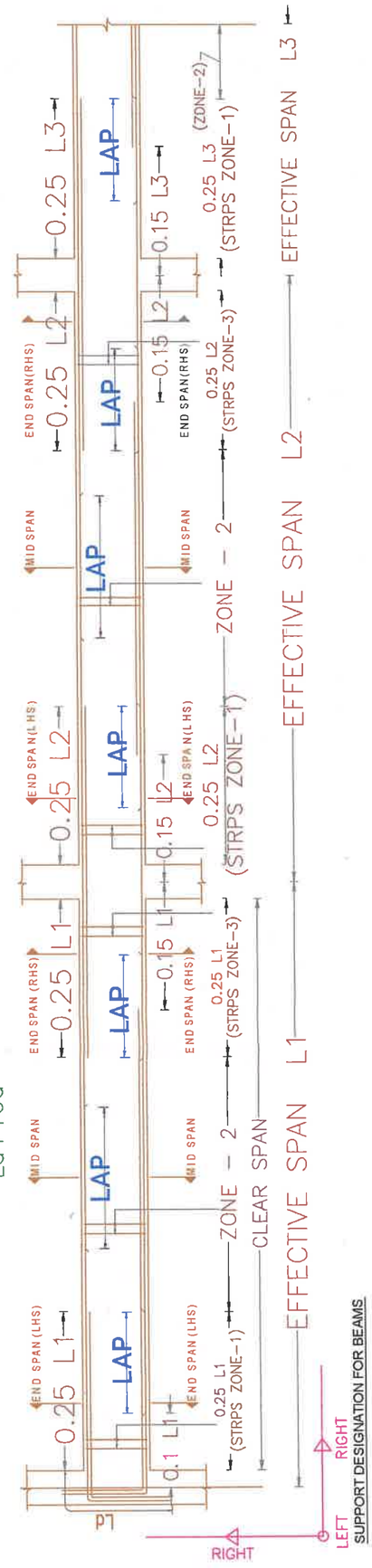
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779
STUDIO

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

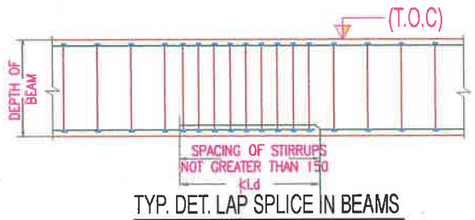
PLINTH BEAM REINFORCEMENT DETAILS:-

Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 12"	P.B- 1	 C.S of Plinth Beam	 C.S of Plinth Beam	 C.S of Plinth Beam
2.	9" X 15"	P.B- 2	 C.S of Plinth Beam	 C.S of Plinth Beam	 C.S of Plinth Beam
3.	9" X 15"	P.B- 3	 C.S of Plinth Beam	 C.S of Plinth Beam	 C.S of Plinth Beam

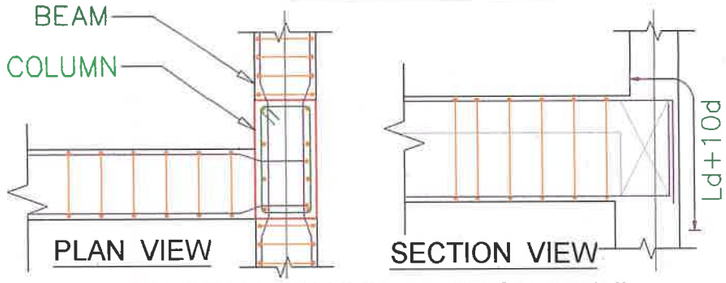


DUCTILE DETAILS;-

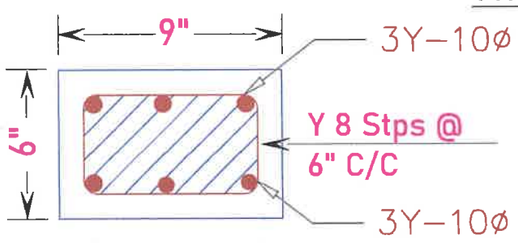
NOTE:-
IF BASEMENT HEIGHT IS MORE THAN 3'6", MUST PROVIDE THE TIE BEAM AT THE TOP OF BASEMENT.



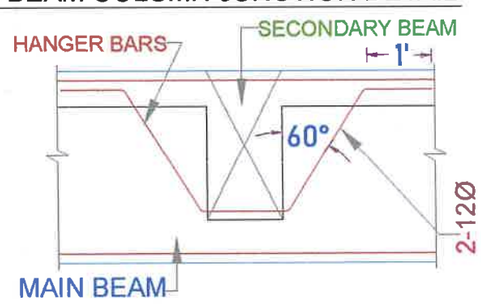
TYP. DET. LAP SPLICE IN BEAMS



TYPICAL BEAM COLUMN JUNCTION DETAIL



C.S of 9"X6" size Tie Beam.



DET. OF HANGER BARS IN MAIN BEAM

REFERENCE:-

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Drawn and Design: BHARATHI.R
Date :10-04-2024 | Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

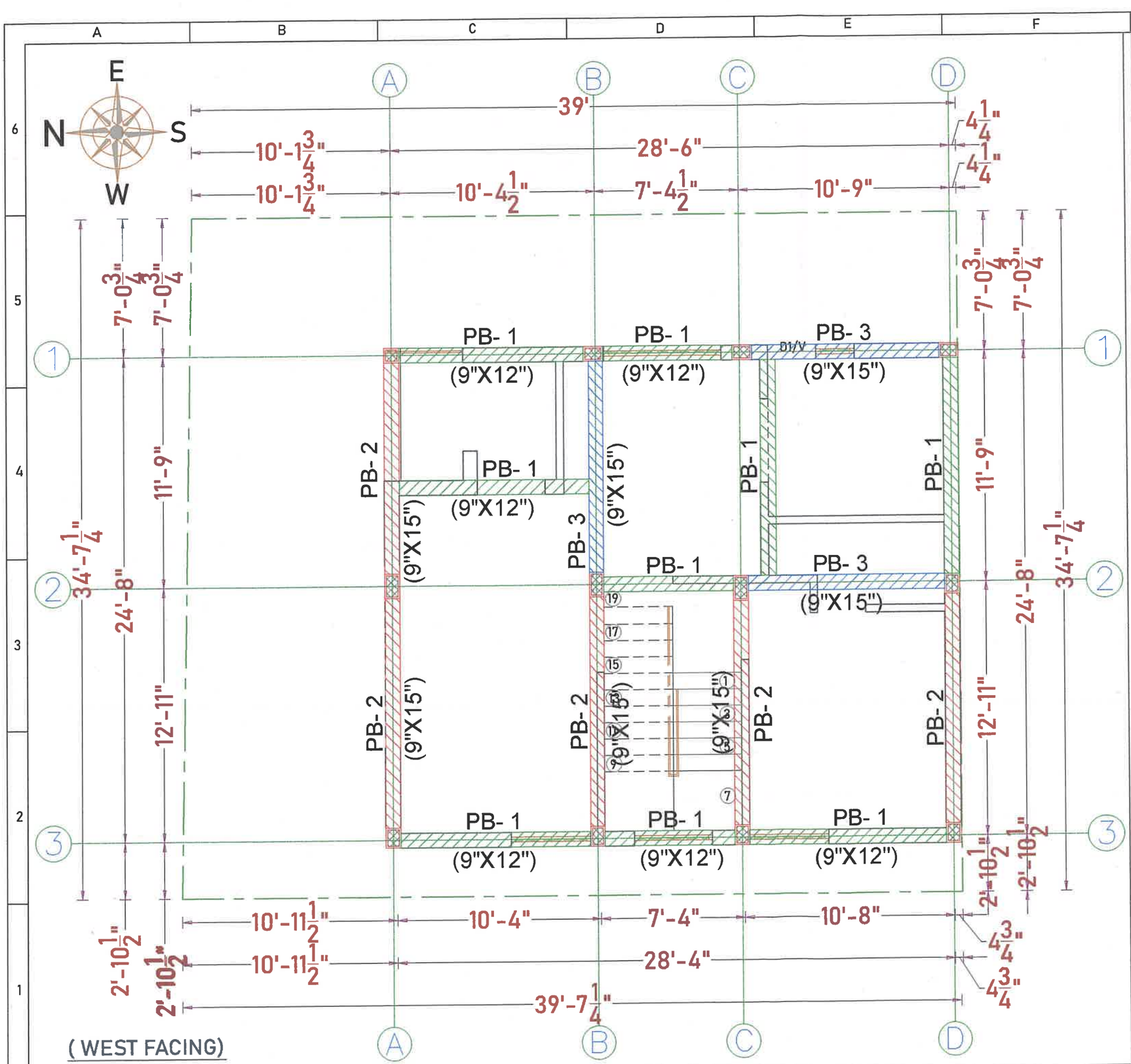
PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-1&2)

TITLE:- PLINTH BEAM (01&02) REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



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Drawn and Design: BHARATHI.R

Date : 10-10-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE: PLINTH BEAM LAYOUT & DETAILS.

PROJECT: Mr. PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 06 TO 12).

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

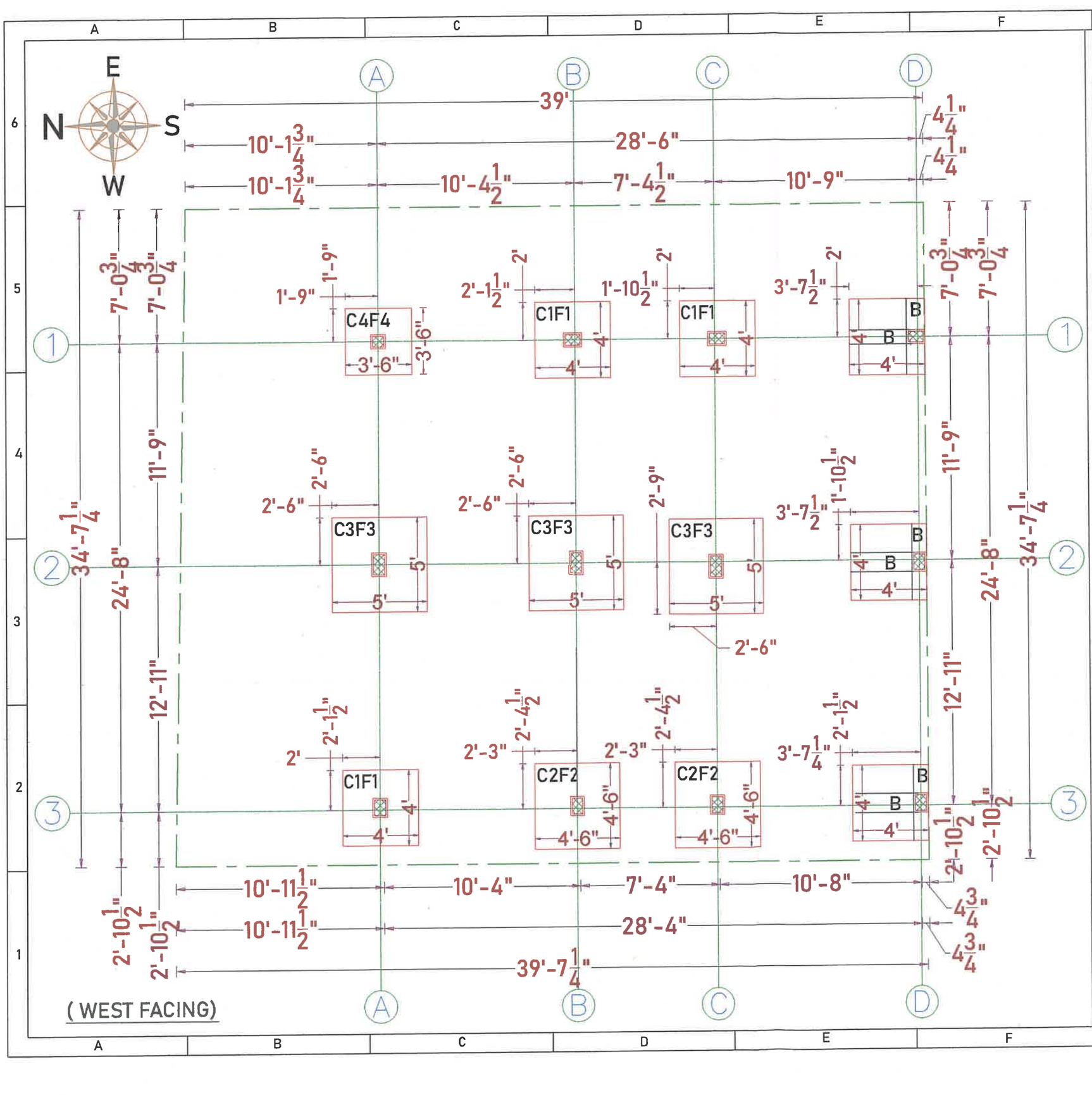
Design n Architectural Studio India pvt ltd

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Drawn and Design: BHARATHI.R

Date : 12-03-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / COLUMN & FOOTING LAYOUT AND DETAILS.

TITLE: REVISED FOOTING AXIS LAYOUT.

PROJECT: Mr. PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 06 TO 12).

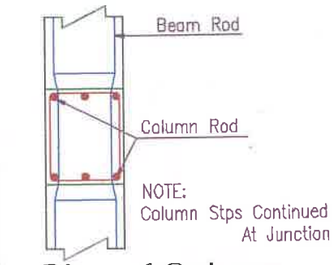
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
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STUDIO Coimbatore 641002 ph : +422-4367779

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M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

COLUMN AND FOOTING REINFORCEMENT SCHEDULE:-

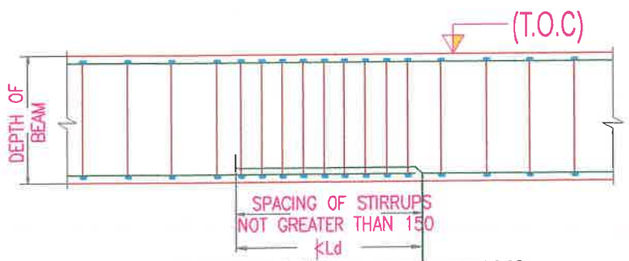
SL.NO	COLUMN SCHEDULE: TYPE	COLUMN SIZE	COLUMN REINFORCEMENT	COLUMN RINGS 8 mm Ø BARS	FOOTING SCHEDULE: SIZE L x B	DEPTH (TOTAL) D	STEEL (a)	STEEL (b)	SECTION	GRID NO
1.	C1F1	9" X 12"	12" × 9" ● 4 X 16 Y + ○ 2 X 12 Y	@ Support 4" C/c; @ Midspan 7" C/c	4'0" X 4'0"	15"	10 # @ 5" C/c	10 # @ 5" C/c	A - A	B - 1, C - 1, D - 1, D - 2, A - 3, D - 3. Nos - 6
2.	C2F2	9" X 12"	12" × 9" ● 4 X 16Y + ○ 4 X 12Y	@ Support 4" C/c; @ Midspan 7" C/c	4'6" X 4'6"	15"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	C - 3, B - 3. Nos - 2
3.	C3F3	9" X 15"	15" × 9" ● 8 X 16Y	@ Support 4" C/c; @ Midspan 7" C/c	5'0" X 5'0"	15"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	A - 2, B - 2, C - 2. Nos - 3
4.	C4F4	9" X 9"	9" × 9" ● 6 X 12Y	@ Support 4" C/c; @ Midspan 7" C/c	3'6" X 3'6"	12"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	A - 1. No - 1



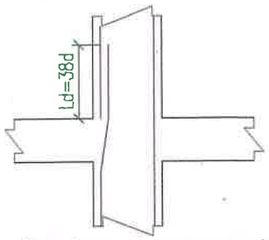
TYPICAL BEAM COLUMN JUNCTION DETAIL

DUCTILE DETAILS;-

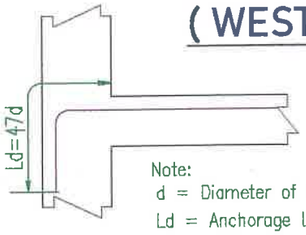
NOTE:-
MUST FOLLOW THE DUCTILE DETAILS.



TYP. DET. LAP SPLICE IN BEAMS



Anchorage Length (Compression)



Anchorage Length (Tension)

Note:
d = Diameter of Bar
Ld = Anchorage Length

(WEST FACING)

REFERENCE: –
* Y –DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE: –
- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.

SOIL REPORT :- S.B.C. 368.3 kN/M ^{2} | LIVE LOAD :- 2 kN/M ^{2}

- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
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- STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- FOUNDATION DESIGNED FOR - GROUND + TWO FLOOR + OHT.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.

Drawn and Design : R.BHARATHI.M.E., Chd : BALAJI.M Date :12-03-2024

Drg No : D/JOBS/D.N.A./SHREYAM VEDA/ WEST -TYPE 1 / VILLA - 06 TO 12 / REV.COLUMN & FOOTING LAYOUT & DETAILS

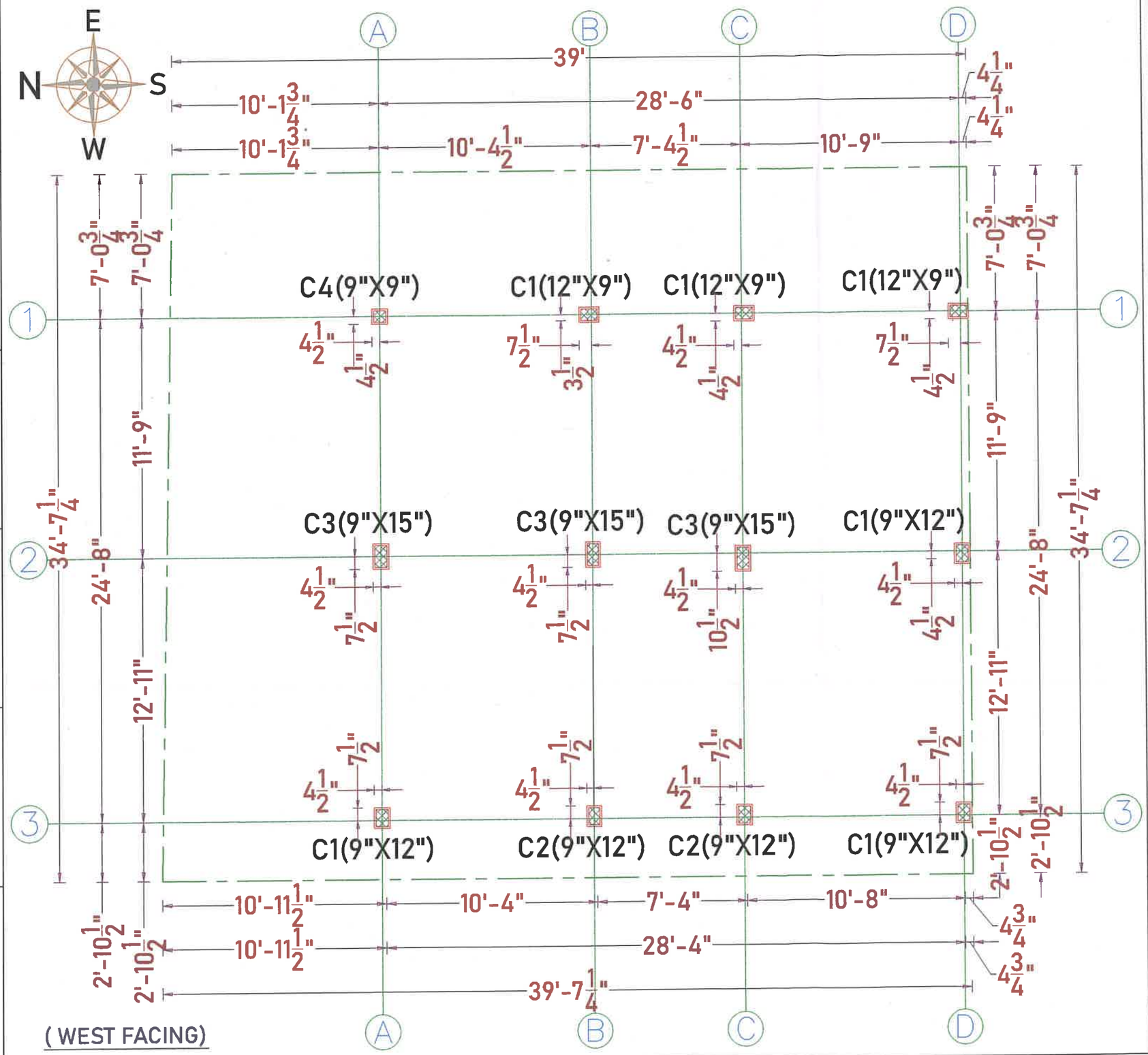
PROJECT: Mr. PRAGADEESH - RESIDENTIAL PROJECT AT TIRUPUR (VILLA - 06 TO 12).

TITLE:- COLUMN, FOOTING REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
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Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



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Drawn and Design: BHARATHI.R

Date : 12-03-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ WEST -TYPE - 1 / VILLA - 6 TO 12 / COLUMN & FOOTING LAYOUT AND DETAILS.

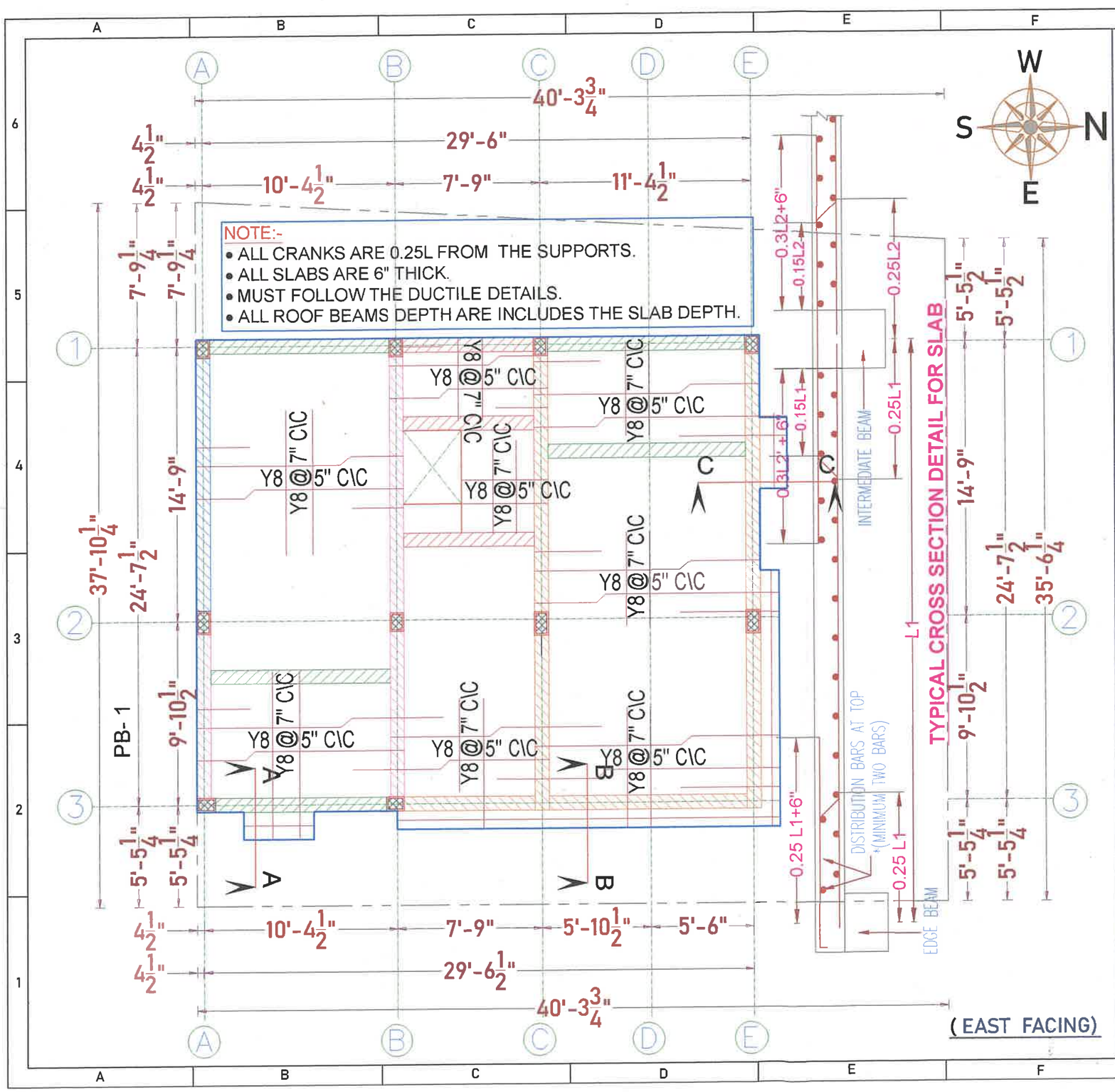
TITLE: REVISED COLUMN AXIS LAYOUT.

PROJECT: Mr. PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 06 TO 12).

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
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Drawn and Design : BHARATHI.R

Date : 03-09-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / FIRST FLOOR ROOF BEAM AND ROOF SLAB LAYOUT WITH REINFORCEMENT DETAILS.

TITLE: F.F. ROOF SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

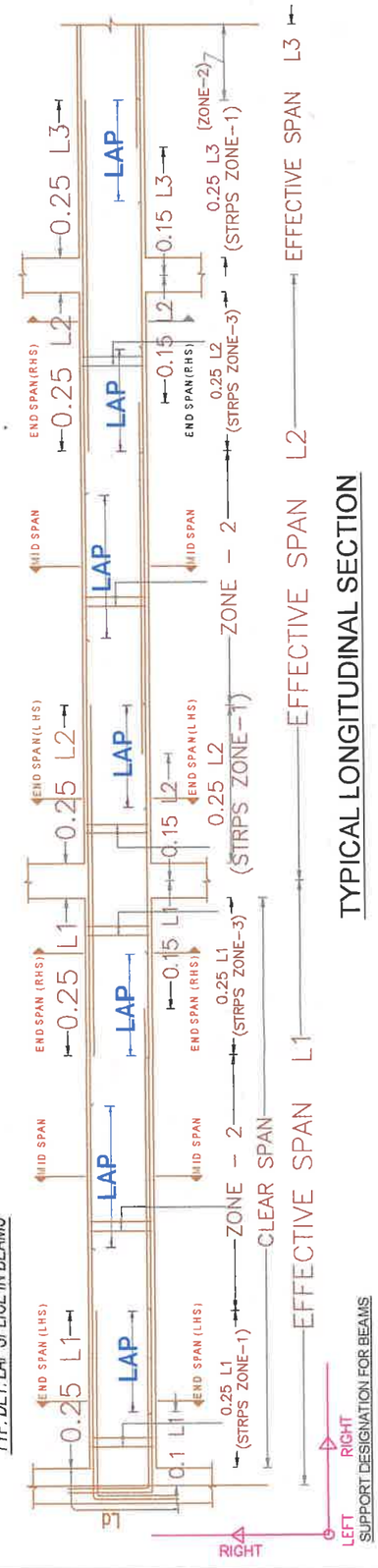
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

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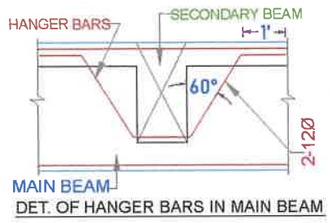
ROOF BEAM REINFORCEMENT DETAILS:-

Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 9"	R.B- 1	9" × 9", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 9", 3 Y-16 Ø, Y 8 Stps @ 7" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 9", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam
2.	9" X 15"	R.B- 2	9" × 15", 3 Y-16 Ø + 2 Y-12 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 15", 3 Y-16 Ø, Y 8 Stps @ 7" C/C, 5 Y-16 Ø — C.S of Roof Beam	9" × 15", 3 Y-16 Ø + 2 Y-12 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam
3.	9" X 15"	R.B- 3	9" × 15", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 15", 3 Y-16 Ø, Y 8 Stps @ 7" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 15", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam
4.	9" X 12"	R.B- 4	9" × 12", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 12", 3 Y-16 Ø, Y 8 Stps @ 7" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 12", 3 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam
5.	9" X 18"	R.B- 5	9" × 18", 5 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam	9" × 18", 3 Y-16 Ø, Y 8 Stps @ 7" C/C, 5 Y-16 Ø — C.S of Roof Beam	9" × 18", 5 Y-16 Ø, Y 8 Stps @ 4" C/C, 3 Y-16 Ø — C.S of Roof Beam

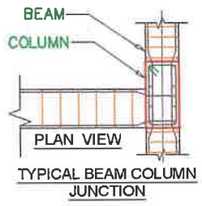


TYPICAL LONGITUDINAL SECTION

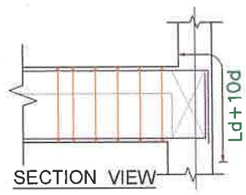
DUCTILE DETAILS;-

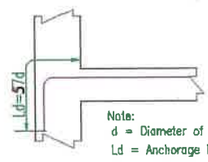


DET. OF HANGER BARS IN MAIN BEAM

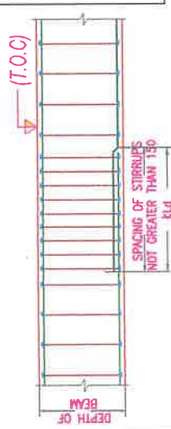


TYPICAL BEAM COLUMN JUNCTION





Anchorage Length (Tension)



TYP. DET. LAP SPLICE IN BEAMS

* Y –DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE:-

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Drawn and Design: BHARATHI.R

Date : 03-09-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / FIRST FLOOR ROOF BEAM AND ROOF SLAB LAYOUT WITH REINFORCEMENT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-1&2)

TITLE:- F.FLOOR ROOF BEAM REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-

Er.BALAJI.M.E.,(struct).,

ARCHITECT :

Design n Architectural Studio India pvt ltd

110, 3rd Street, Robertson Road,

PM Swamy Colony, RS Puram,

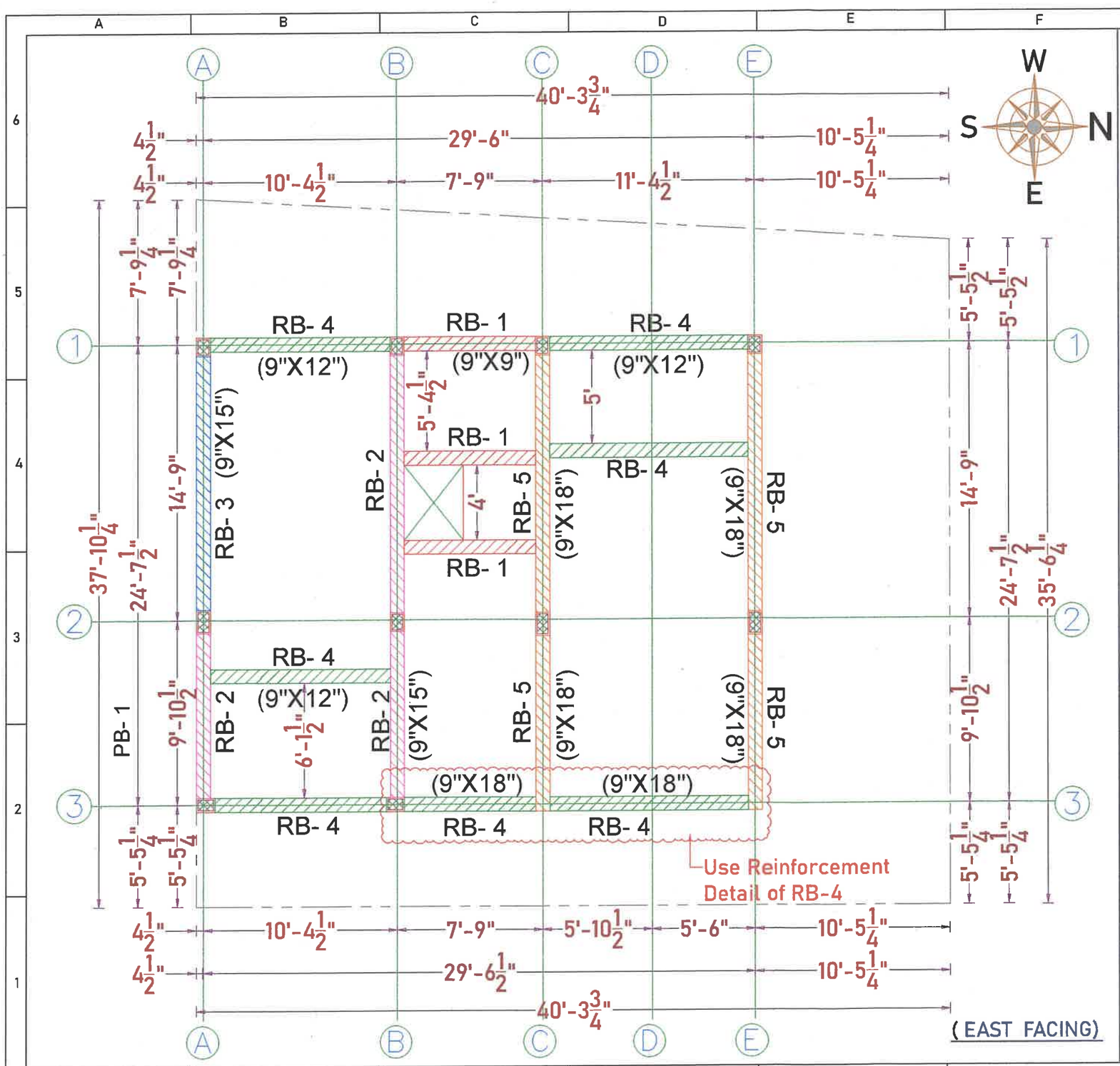
DN STUDIO Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS

M.BALAJI, M.E.,(Struct)

LPA/SE/GR-1/076/2024

Coimbatore - 04



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Drawn and Design: BHARATHI.R

Date : 03-09-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / FIRST FLOOR ROOF BEAM AND ROOF SLAB LAYOUT WITH REINFORCEMENT DETAILS.

TITLE: F.FLOOR R.BEAM LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

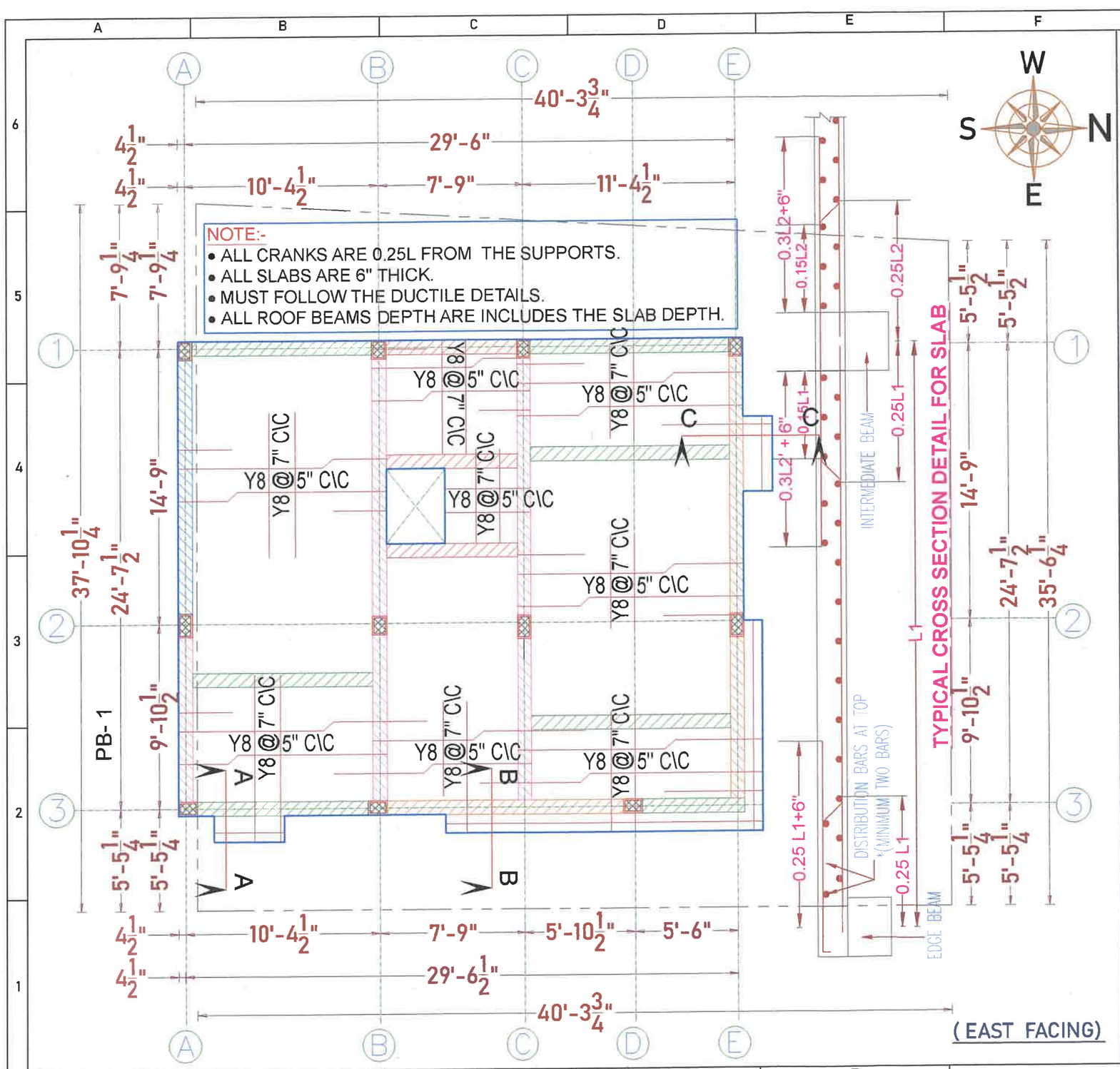
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

DN STUDIO

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Drawn and Design: BHARATHI.R

Date : 17-06-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

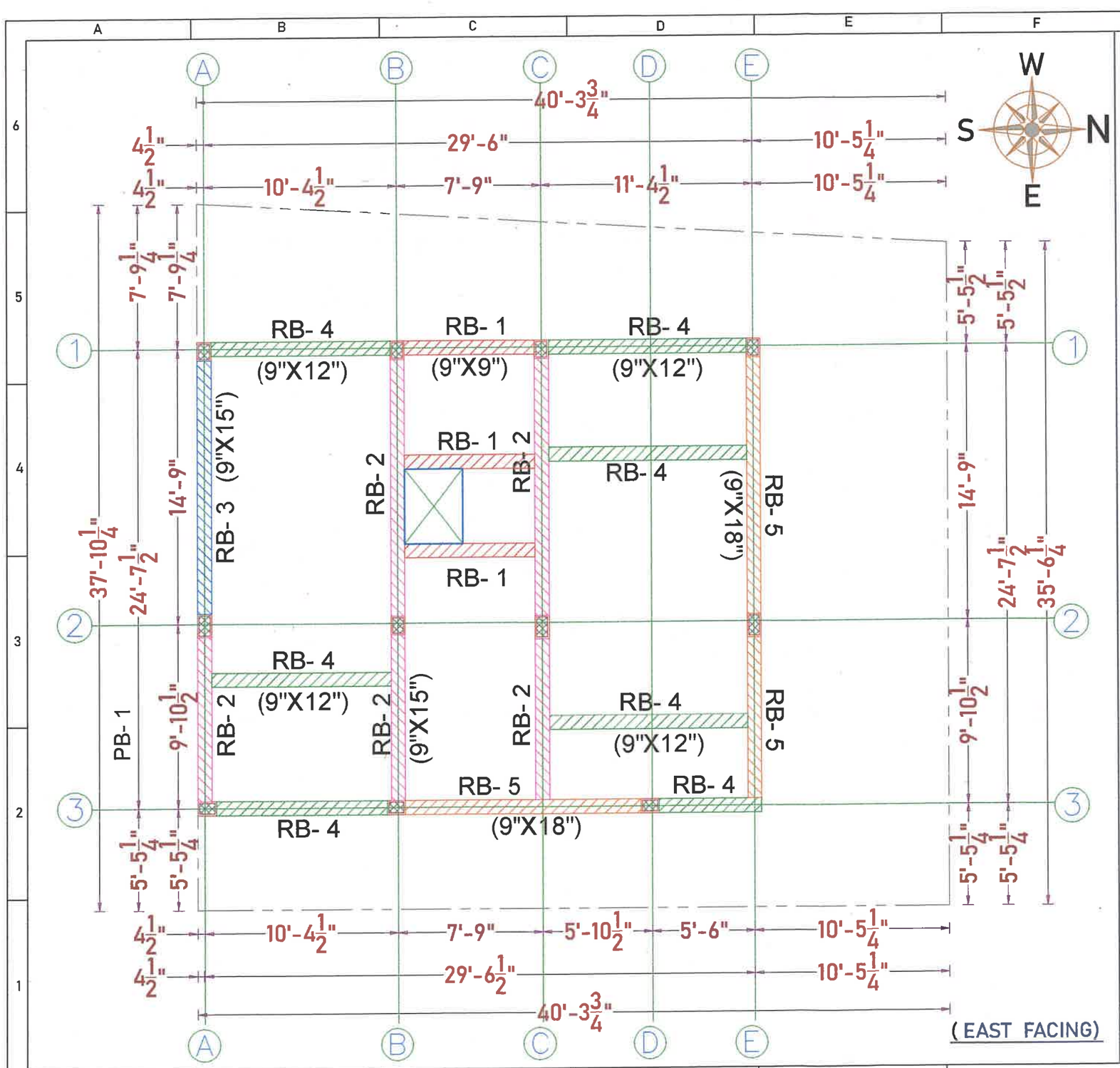
TITLE: F.F. ROOF SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

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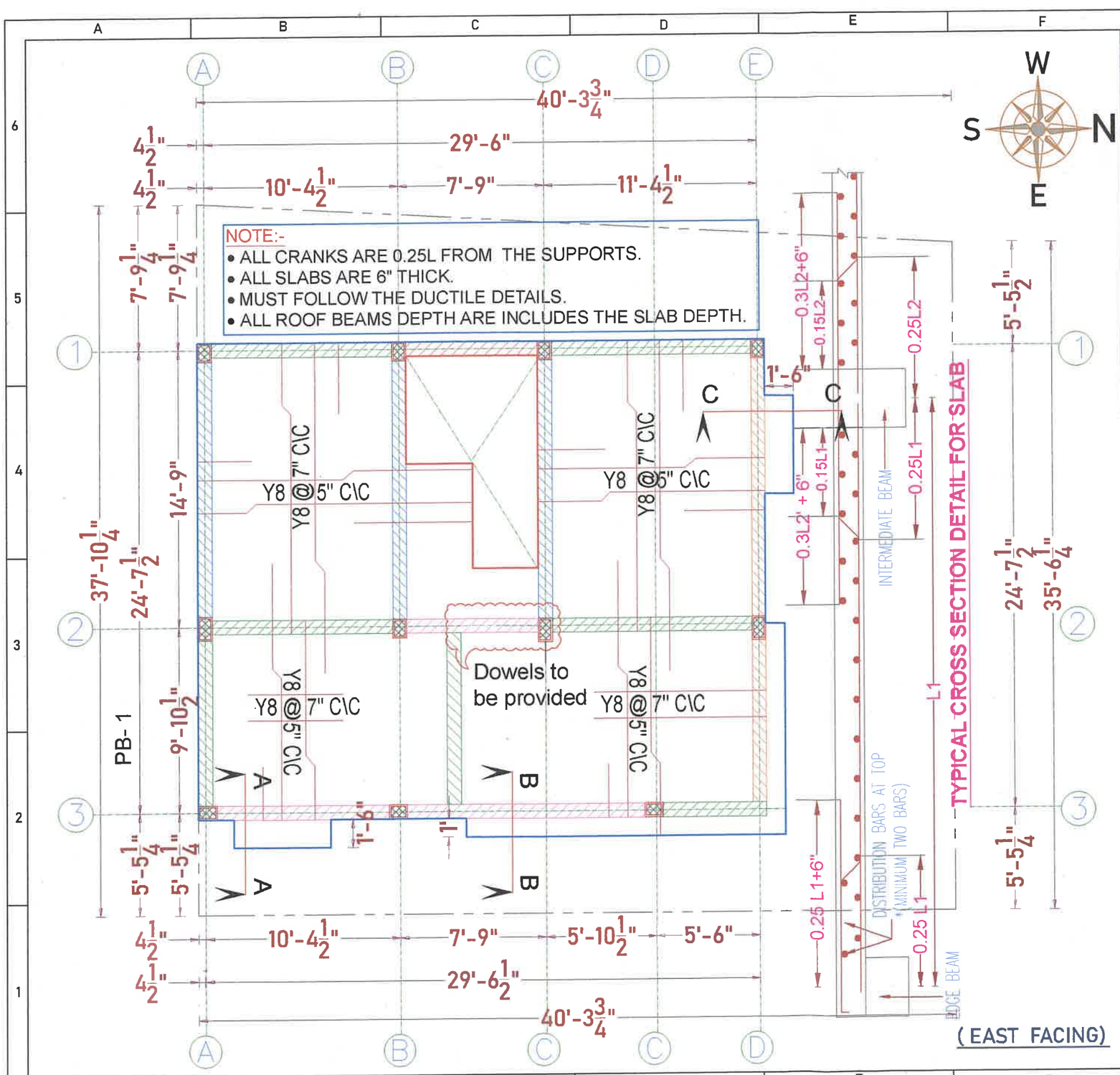
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STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

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LPA/SE/GR-1/076/2024
Coimbatore - 04



REFERENCE: –

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
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- FOUNDATION DESIGNED FOR - GROUND FLOOR + TWO FLOORS + OHT.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.

Drawn and Design : BHARATHI.R

Date : 17-06-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

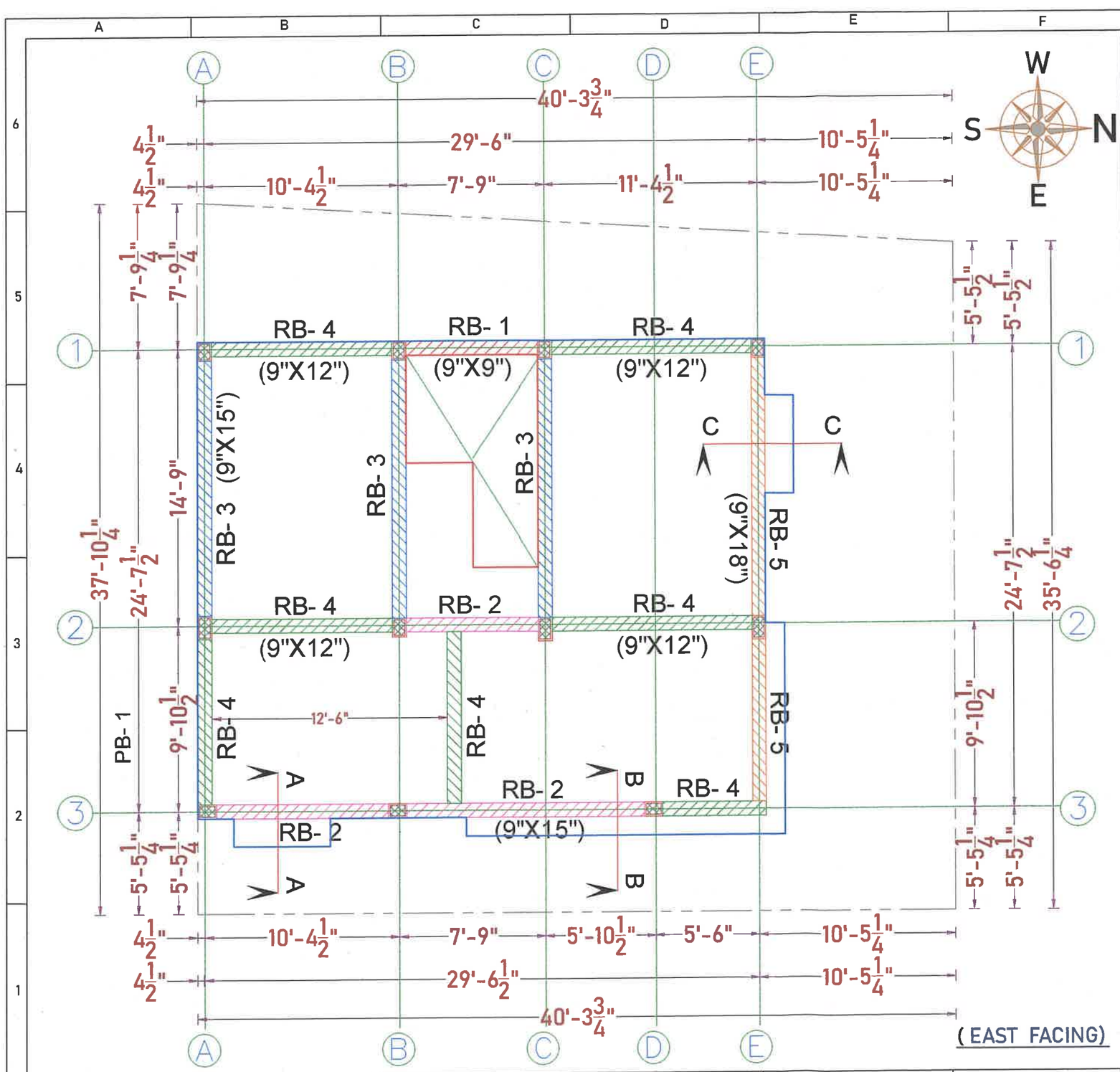
TITLE:GROUND R.SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
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STUDIO Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



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Drawn and Design: BHARATHI.R

Date : 17-06-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE:GROUND R.BEAM LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

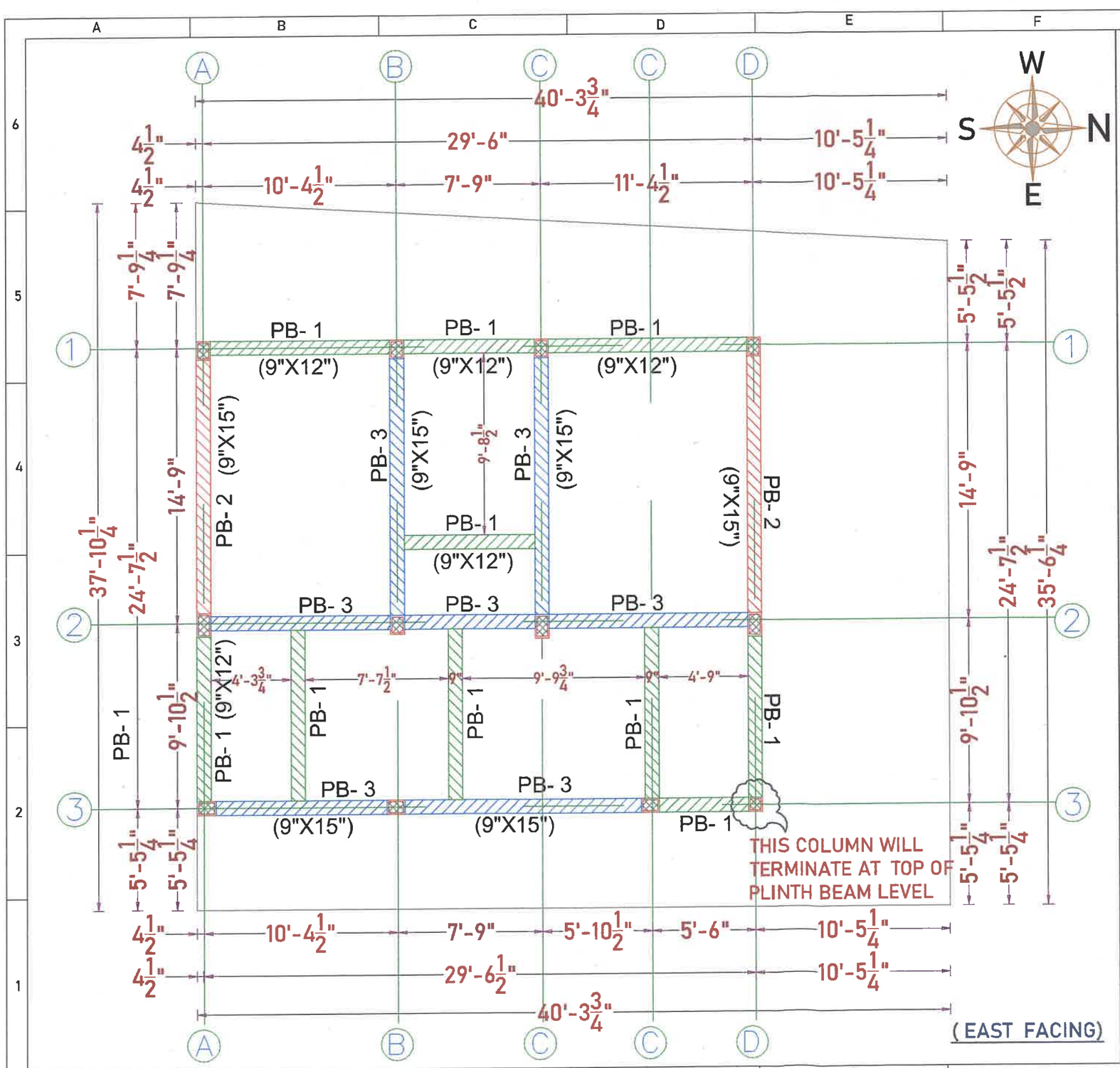
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

DNA STUDIO

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Coimbatore 641002 ph : +422-4367779

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LPA/SE/GR-1/076/2024
Coimbatore - 04



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Drawn and Design: BHARATHI.R

Date : 08-04-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -T1 / VILLA - 1 & 2 / PLINTH, ROOF BEAM & ROOF SLAB LAYOUT AND DETAILS.

TITLE:PLINTH BEAM LAYOUT AND DETAILS.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

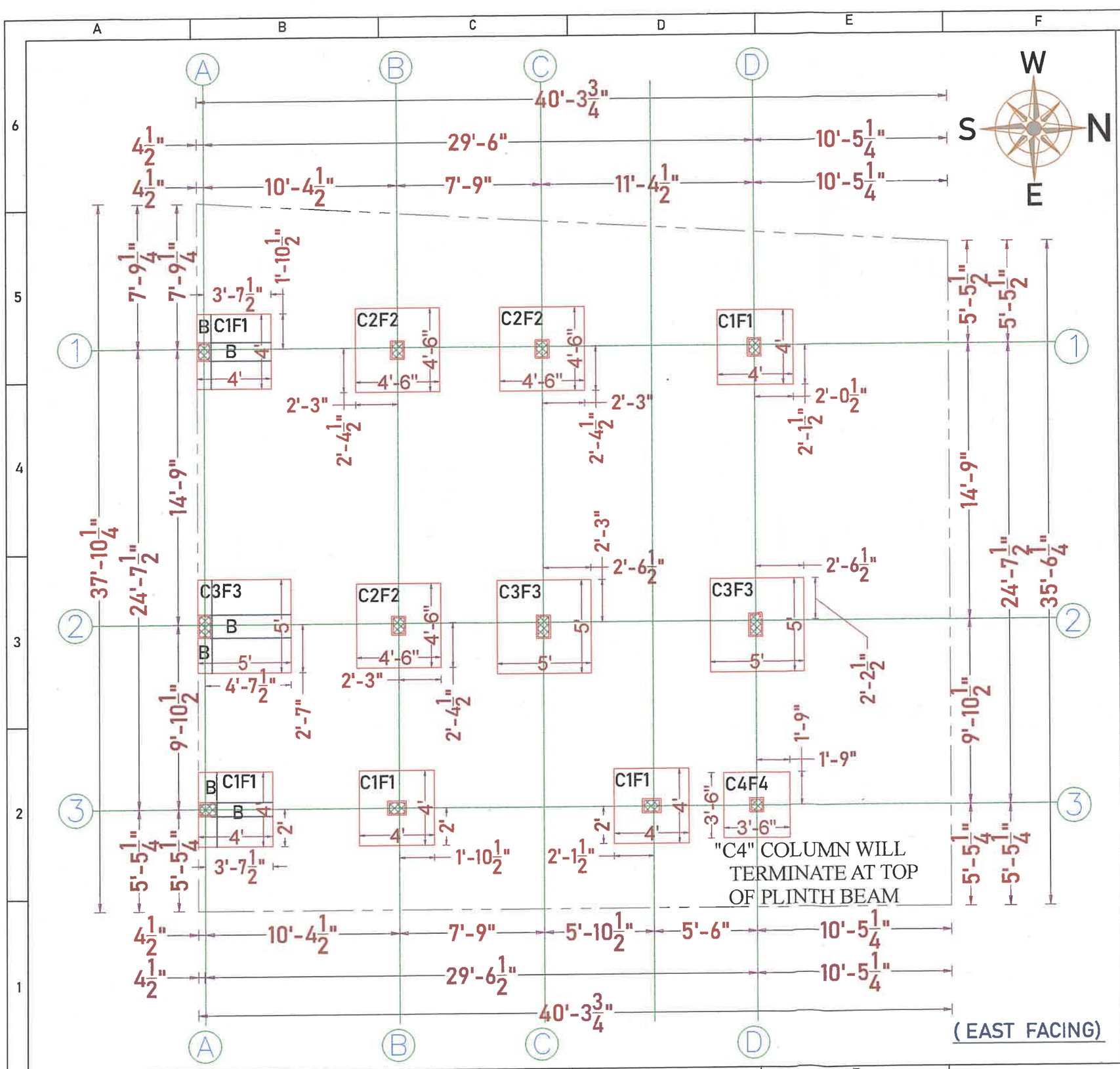
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

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110, 3rd Street, Robertson Road,
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Coimbatore 641002 ph : +422-4367779

STUDIO

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



REFERENCE: –

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Drawn and Design: BHARATHI.R

Date : 29-03-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -TI / VILLA - 1 & 2 / REV. COLUMN & FOOTING LAYOUT AND DETAILS.

TITLE: REVISED FOOTING AXIS LAYOUT.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

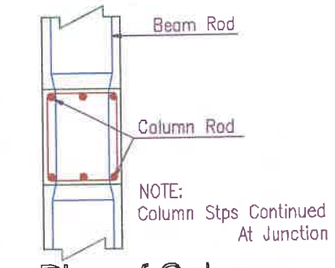
ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 Ph: 0422-4367777
STUDIO

SAI STRUCTURAL DESIGNS
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LPA/SE/GR-1/076/2024
Coimbatore - 04

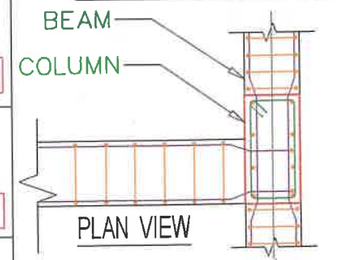
COLUMN AND FOOTING REINFORCEMENT SCHEDULE:-

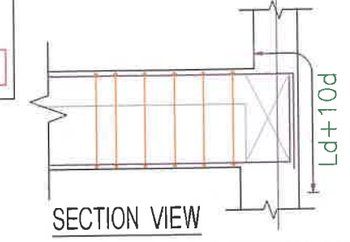
SL.NO	COLUMN SCHEDULE: TYPE	COLUMN SIZE	COLUMN REINFORCEMENT	COLUMN RINGS 8 mm Ø BARS	FOOTING SCHEDULE: SIZE L x B	DEPTH (TOTAL) D	STEEL (a)	STEEL (b)	SECTION	GRID NO
1.	C1F1	9" X 12"	12" × 9" • 4 X 16 Y + ○ 2 X 12 Y	@ Support 4" C/c; @ Midspan 7" C/c	4'0" X 4'0"	15"	10 # @ 5" C/c	10 # @ 5" C/c	A - A	A - 1, D - 1, A - 3, B - 3, C - 3. Nos - 5
2.	C2F2	9" X 12"	12" × 9" • 4 X 16Y+ ○ 4 X 12Y	@ Support 4" C/c; @ Midspan 7" C/c	4'6" X 4'6"	15"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	B - 1, C - 1, B - 2. Nos - 3
3.	C3F3	9" X 15"	15" × 9" • 8 X 16Y	@ Support 4" C/c; @ Midspan 7" C/c	5'0" X 5'0"	15"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	A - 2, C - 2, D - 2. Nos - 3
4.	C4F4	9" X 9"	9" × 9" • 4 X 12Y	@ Support 4" C/c; @ Midspan 7" C/c	3'0" X 3'0"	12"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	D - 3. No - 1

THIS COLUMN WILL TERMINATE AT TOP OF PLINTH BEAM



Plan of Column - - Beam Junction



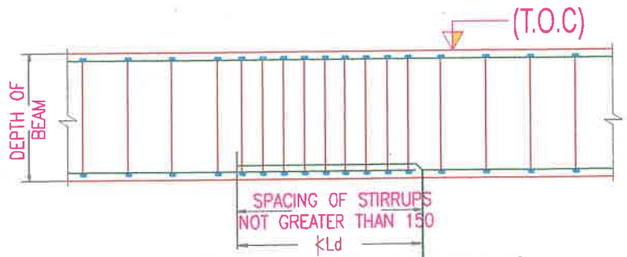


TYPICAL BEAM COLUMN JUNCTION DETAIL

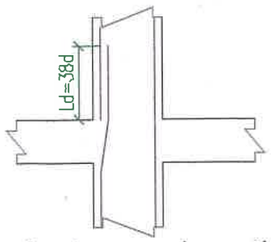
DUCTILE DETAILS;-

NOTE:-

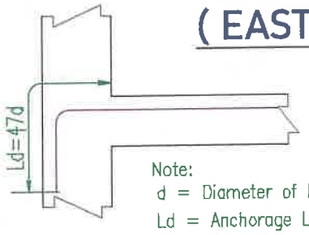
MUST FOLLOW THE DUCTILE DETAILS.



TYP. DET. LAP SPLICE IN BEAMS



Anchorage Length (Compression)



Note:
d = Diameter of Bar
Ld = Anchorage Length

Anchorage Length (Tension)

(EAST FACING)

REFERENCE: –
* Y –DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE: –

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- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
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SOIL REPORT :- S.B.C. 368.3 kN/M ^{2} | LIVE LOAD :- 2 kN/M ^{2}

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Drawn and Design : R.BHARATHI.M.E., Chd : BALAJI.M Date : 29-03-2024

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -TI / VILLA -1 & 2 / REV.COLUMN & FOOTING LAYOUT AND DETAILS.

PROJECT: Mr. PRAGADEESH - RESIDENTIAL VILLA PROJECT AT TIRUPUR (VILLA - 01 & 02).

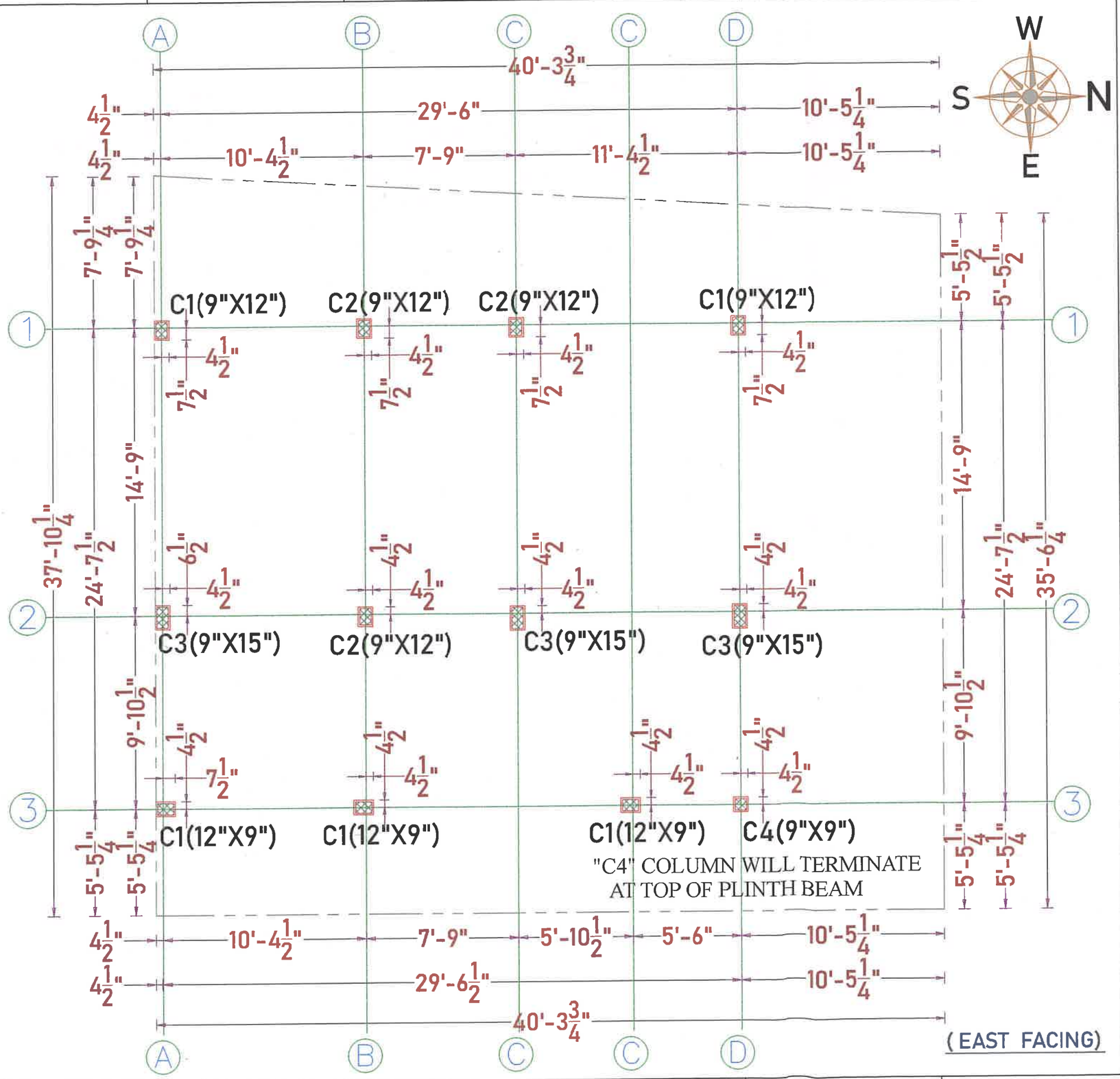
TITLE:- COLUMN, FOOTING REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

DN STUDIO Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
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SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



(EAST FACING)

REFERENCE: –

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Drawn and Design : BHARATHI.R

Date : 29-03-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST -TI / VILLA - 1 & 2 / REV. COLUMN & FOOTING LAYOUT AND DETAILS.

TITLE: REVISED COLUMN AXIS LAYOUT.

PROJECT: Mr.PRAGADEESH- VILLAS AT TIRUPUR (VILLA - 01 & 02).

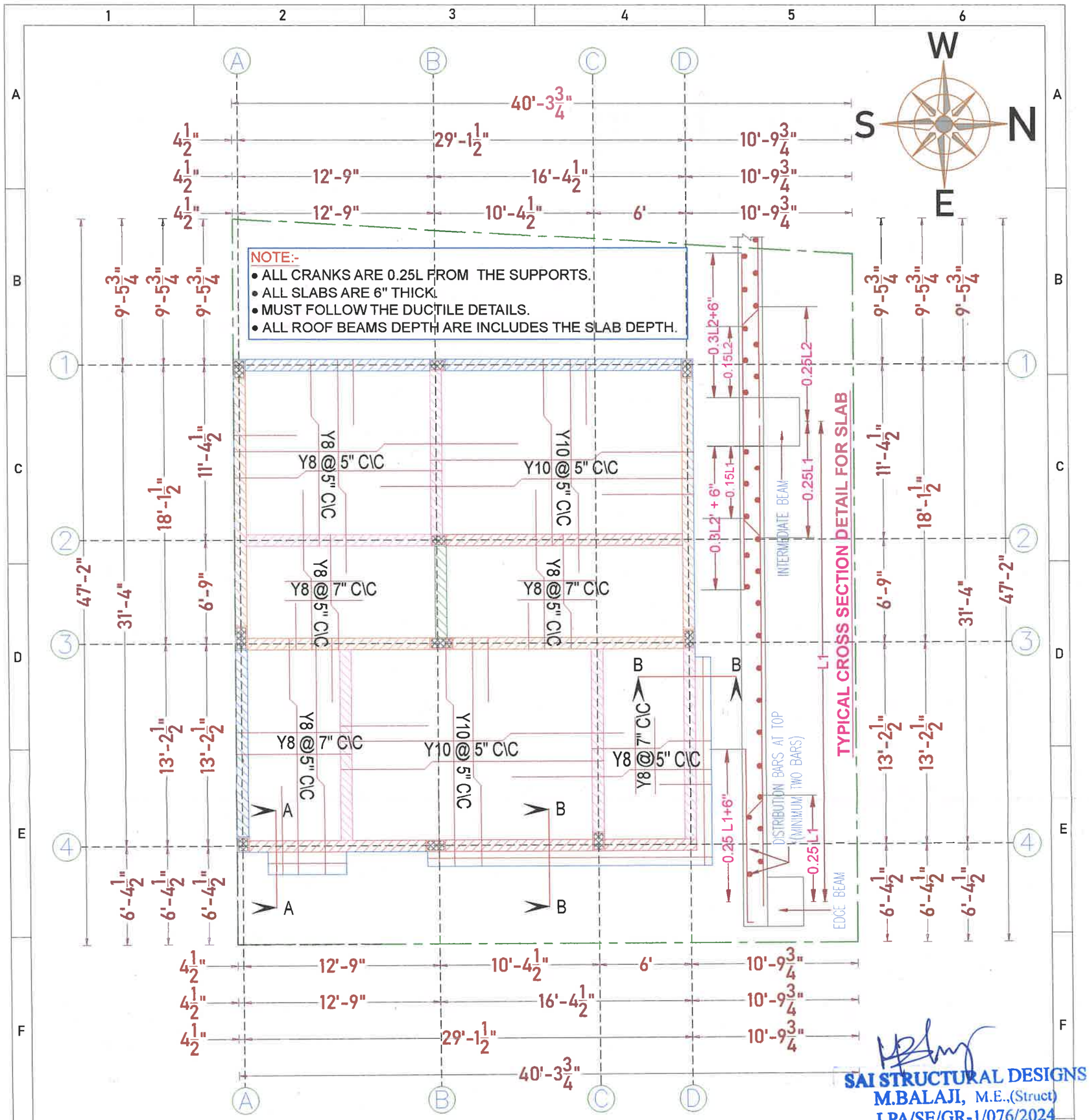
STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :

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M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



SOIL REPORT :- S.B.C. 300.0 kN/M ^{2} (AS PER SOIL REPORT)
LIVE LOAD :- 2 kN/M ^{2}

Ld FOR COMPRESSION : 47D
Ld FOR TENSION : 58D

SAI STRUCTURAL DESIGNS
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LPA/SE/GR-1/076/2024
Coimbatore - 04

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Drawn and Design: BHARATHI.R
Date : 08-11-2024 | Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/ FIRST FLOOR R.BEAM, R.SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

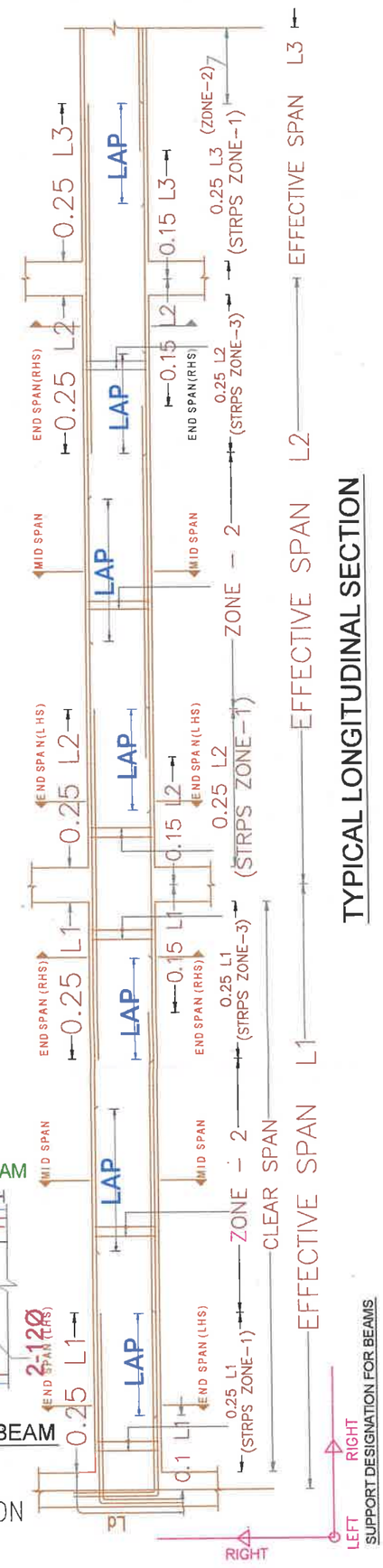
TITLE:- FIRST FLOOR ROOF SLAB LAYOUT REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
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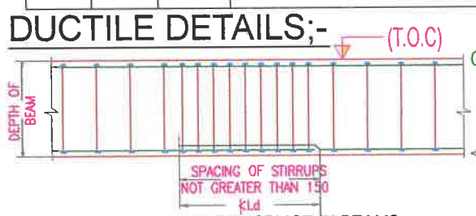
ROOF BEAM REINFORCEMENT DETAILS:-

Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 21"	R.B- 1	9" × 21": 3Y-20 Ø + 2Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-20 Ø — C.S of Roof Beam	9" × 21": 3 Y-20 Ø; Y 8 Stps @ 7" C/C; 2Y-16 Ø + 3Y-20 Ø — C.S of Roof Beam	9" × 21": 3Y-20 Ø + 2Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-20 Ø — C.S of Roof Beam
2.	9" X 15"	R.B- 2	9" × 15": 3 Y-16 Ø + 2 Y-12 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam	9" × 15": 3 Y-16 Ø; Y 8 Stps @ 7" C/C; 5 Y-16 Ø — C.S of Roof Beam	9" × 15": 3 Y-16 Ø + 2 Y-12 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam
3.	9" X 15"	R.B- 3	9" × 15": 3 Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam	9" × 15": 3 Y-16 Ø; Y 8 Stps @ 7" C/C; 3 Y-16 Ø — C.S of Roof Beam	9" × 15": 3 Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam
4.	9" X 12"	R.B- 4	9" × 12": 3 Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam	9" × 12": 3 Y-16 Ø; Y 8 Stps @ 7" C/C; 3 Y-16 Ø — C.S of Roof Beam	9" × 12": 3 Y-16 Ø; Y 8 Stps @ 4" C/C; 3 Y-16 Ø — C.S of Roof Beam
5.	9" X 24"	R.B- 5	9" × 24": 5Y-20 Ø; Y 8 Stps @ 4" C/C; 3 Y-20 Ø — C.S of Roof Beam	9" × 24": 3 Y-20 Ø; Y 8 Stps @ 7" C/C; 5Y-20 Ø — C.S of Roof Beam	9" × 24": 5Y-20 Ø; Y 8 Stps @ 4" C/C; 3 Y-20 Ø — C.S of Roof Beam

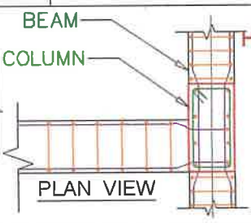


TYPICAL LONGITUDINAL SECTION

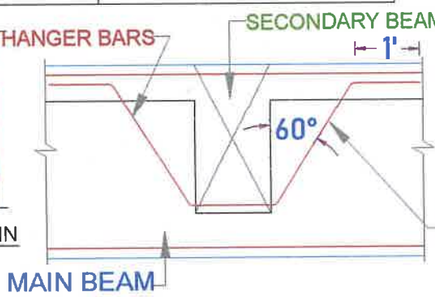
DUCTILE DETAILS;-



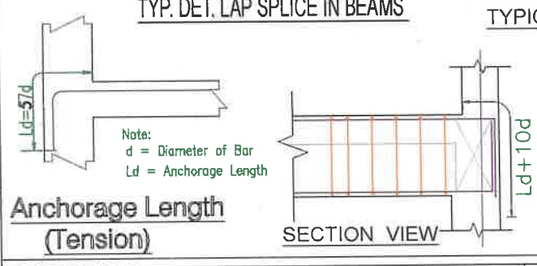
TYP. DET. LAP SPLICE IN BEAMS



TYPICAL BEAM COLUMN JUNCTION



DET. OF HANGER BARS IN MAIN BEAM



Anchorage Length (Tension)

* Y –DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF BUILDER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
- IF FLOOR TO FLOOR IS MORE THAN 11' FEET MUST INFORMED TO THE STRUCTURAL ENGINEER FOR FURTHER ASSISTANCE.
- STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

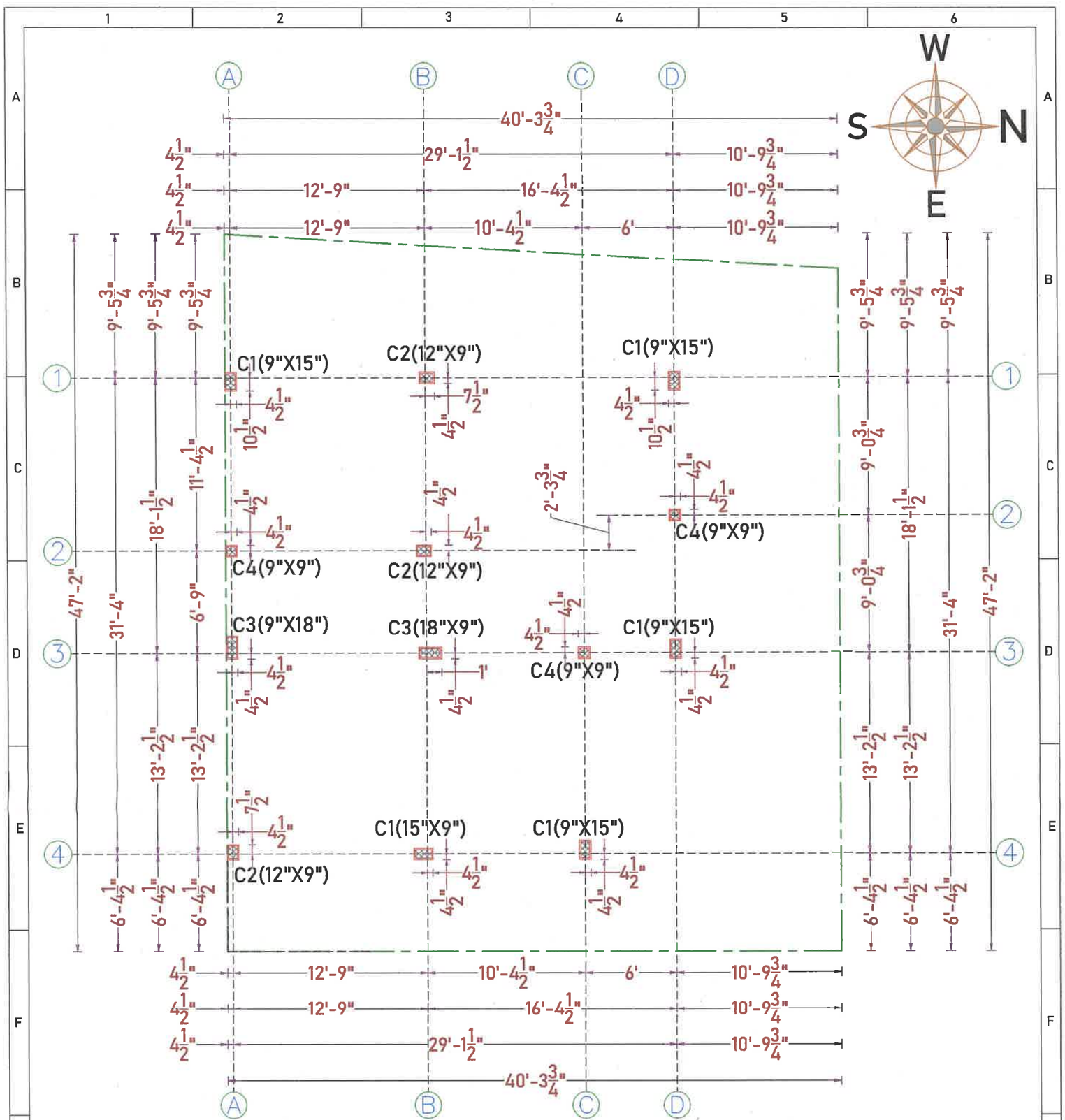
Drawn and Design: BHARATHI.R
Date : 08-11-2024 Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/ FIRST FLOOR ROOF BEAM, ROOF SLAB REINFORCEMENT LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA- 05)

TITLE:- F.FLOOR ROOF BEAM REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
DN STUDIO
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779



SOIL REPORT :- S.B.C. 300.0 kN/M ^{2} (AS PER SOIL REPORT)
LIVE LOAD :- 2 kN/M ^{2}

Ld FOR COMPRESSION : 47D
Ld FOR TENSION : 58D

REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
- IF FLOOR TO FLOOR IS MORE THAN 11' FEET MUST INFORMED TO THE STRUCTURAL ENGINEER FOR FURTHER ASSISTANCE.
- STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

Drawn and Design: BHARATHI.R
Date : 25-06-2024 | Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST / VILLA-5/COLUMN & FOOTING LAYOUT & DETAILS.

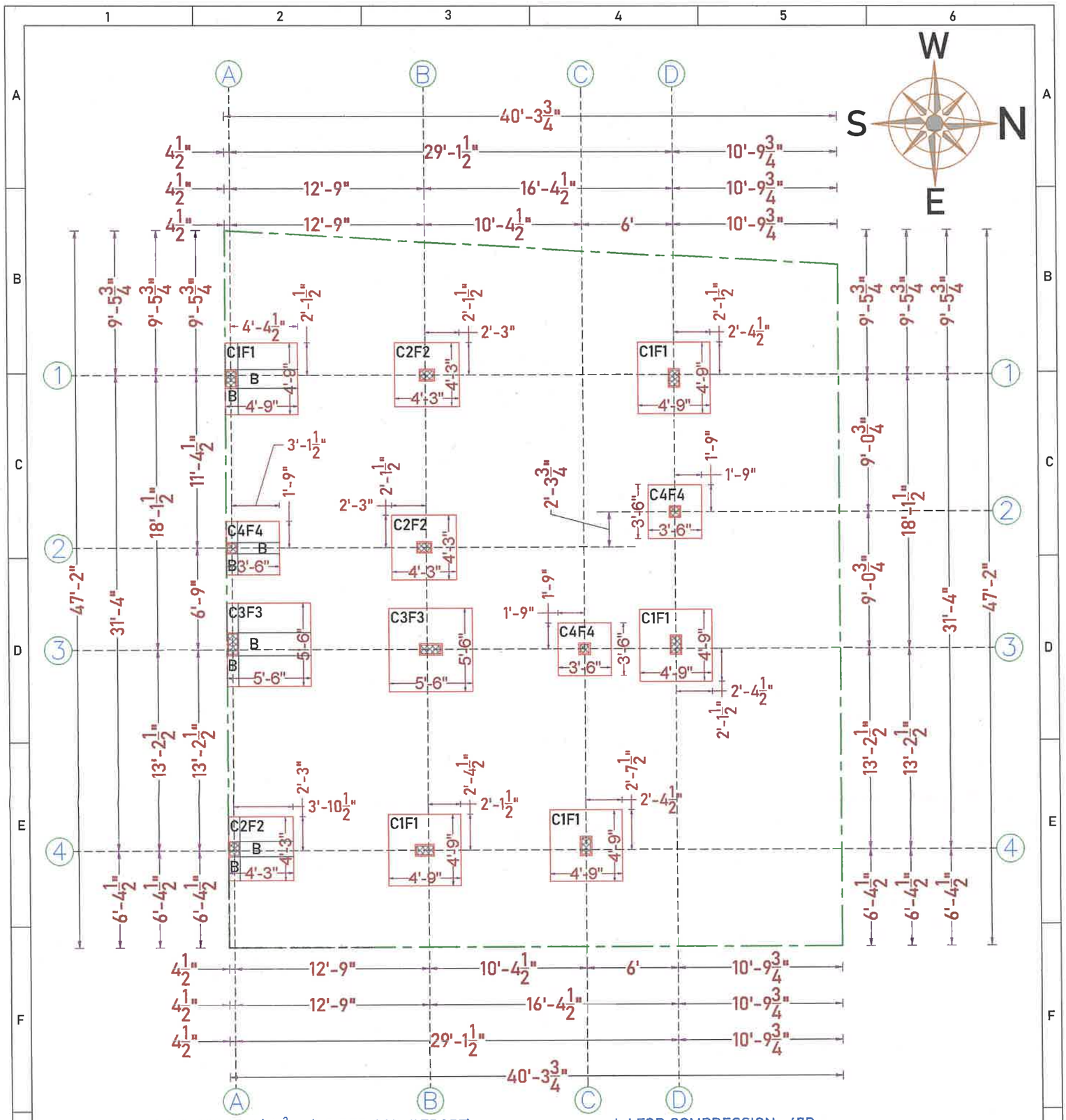
PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- COLUMN AXIS LAYOUT AND DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
DNA STUDIO
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



REFERENCE:-

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- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
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- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

Drawn and Design: BHARATHI.R

Date : 25-06-2024 | Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST / VILLA-5/COLUMN & FOOTING LAYOUT & DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- FOOTING AXIS LAYOUT AND DETAILS.

STRUCTURAL CONSULTANT:-

Er.BALAJI.M.E.,(struct).,

ARCHITECT :

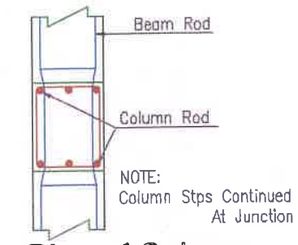
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

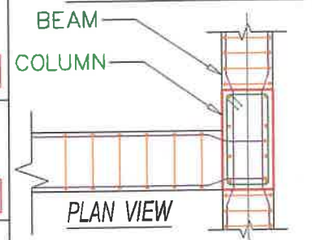
COLUMN AND FOOTING REINFORCEMENT SCHEDULE:-

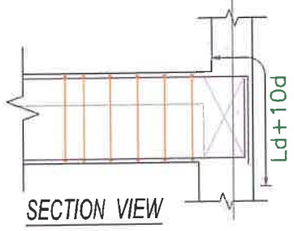
SL.NO	COLUMN SCHEDULE: TYPE	COLUMN SIZE	COLUMN REINFORCEMENT	COLUMN RINGS 8 mm Ø BARS	FOOTING SCHEDULE: SIZE L x B	DEPTH (TOTAL) D	STEEL (a)	STEEL (b)	SECTION	GRID NO
1.	C1F1	9" X 15"	15" × 9" • 4 X 16 Y + ○ 6 X 12 Y	@ Support 4" C/c @ Midspan 7" C/c	4'9" X 4'9"	15"	10 # @ 5" C/c	10 # @ 5" C/c	A - A	A - 1, D - 1, D - 3, B - 4, C - 4. Nos - 5
2.	C2F2	9" X 12"	12" × 9" • 4 X 16Y+ ○ 4 X 12Y	@ Support 4" C/c @ Midspan 7" C/c	4'3" X 4'3"	15"	10 # @ 5" C/c	10 # @ 5" C/c	A - A	B - 1, B - 2, A - 4. Nos - 3
3.	C3F3	9" X 18"	18" × 9" • 8 X 16Y	@ Support 4" C/c @ Midspan 7" C/c	5'6" X 5'6"	18"	10 # @ 5" C/c	10 # @ 5" C/c	A - A	A - 3, B - 3. Nos - 2
4.	C4F4	9" X 9"	9" × 9" • 4 X 12Y	@ Support 4" C/c @ Midspan 7" C/c	3'0" X 3'0"	12"	8 # @ 5" C/c	8 # @ 5" C/c	A - A	A - 2, D - 2, C - 3. Nos - 3

THIS COLUMN WILL TERMINATE AT TOP OF PLINTH BEAM



Plan of Column - - Beam Junction

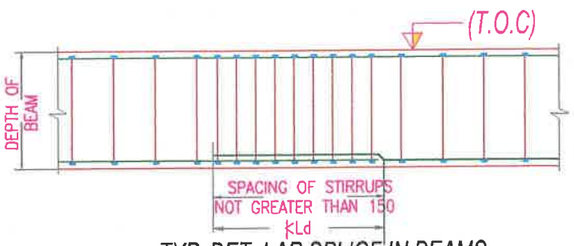




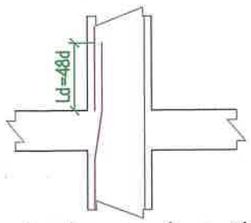
TYPICAL BEAM COLUMN JUNCTION DETAIL

DUCTILE DETAILS;-

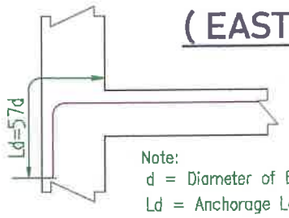
NOTE:-
MUST FOLLOW THE DUCTILE DETAILS.



TYP. DET. LAP SPLICE IN BEAMS



Anchorage Length (Compression)



Note:
d = Diameter of Bar
Ld = Anchorage Length

Anchorage Length (Tension)

(EAST FACING)

REFERENCE:-
* Y -DIA OF RIBBED STEEL
* LEVELS TO BE FIXED ON SITE CONDITION
* REFER BOUNDARY CONDITIONS

REFERENCE:-
- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.

SOIL REPORT :- S.B.C. 300.0 kN/M²

LIVE LOAD :- 2 kN/M²

- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
- IF FLOOR TO FLOOR IS MORE THAN 11' FEET MUST INFORMED TO THE STRUCTURAL ENGINEER FOR FURTHER ASSISTANCE.
- STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
- FOUNDATION DESIGNED FOR - GROUND + ONE FLOOR + OHT.
- BUILDING DESIGN FOR CHAMBER BRICKS ONLY.
- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.

Drawn and Design : R.BHARATHI.M.E., Chd : BALAJI.M Date : 25-06-2024

Drg No : D/JOBS/D.N.A./PRAGADEESH/ EAST / VILLA - 5/ COLUMN & FOOTING LAYOUT AND DETAILS.

PROJECT: Mr. PRAGADEESH - RESIDENTIAL VILLA PROJECT AT TIRUPUR (VILLA - 05).

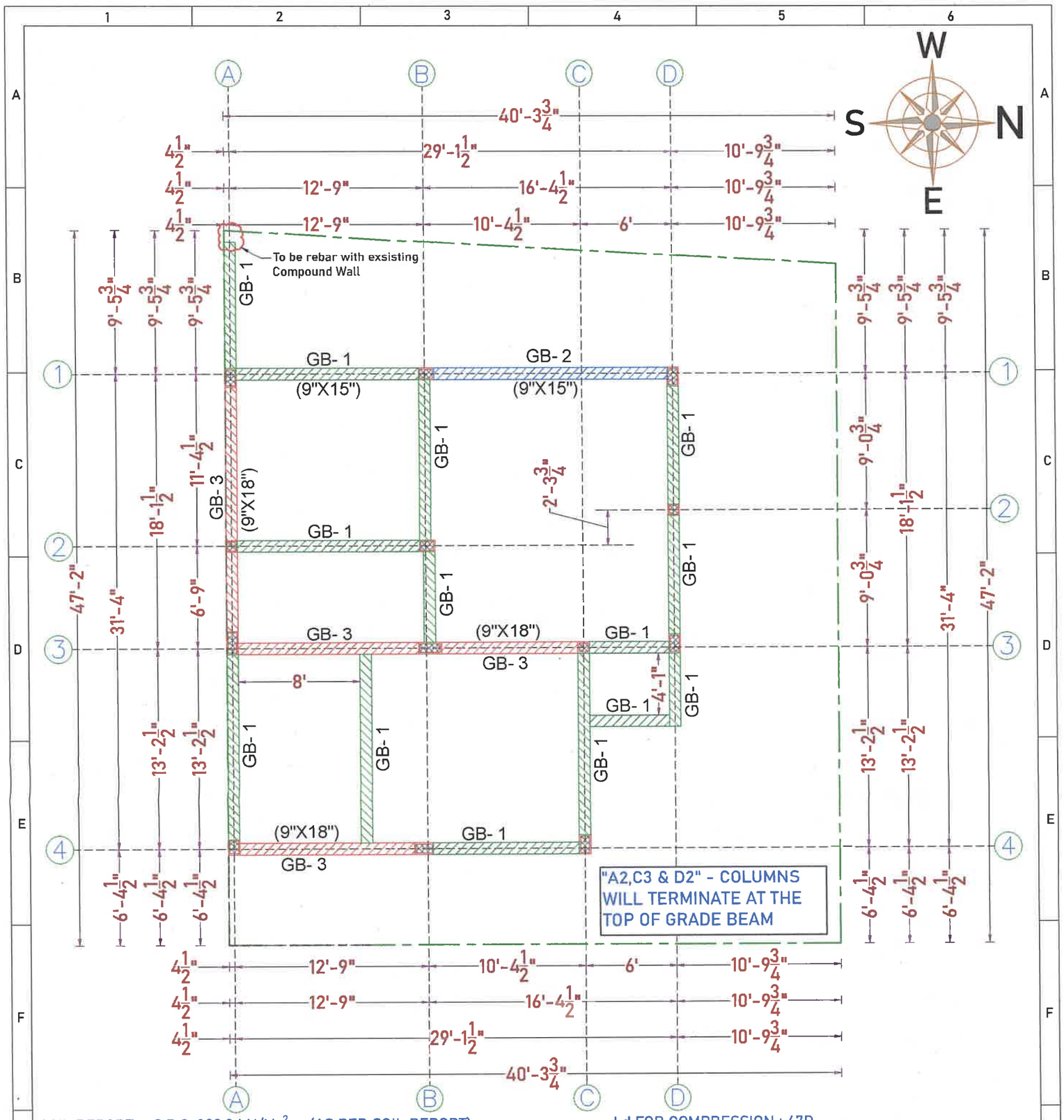
TITLE:- COLUMN, FOOTING REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:- Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
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- ONUS OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
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- ANY DISCREPANCIES FOUND IN THE DRAWING SHOULD BROUGHT TO THE NOTICE OF ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY, BEFORE ANY FURTHER EXECUTION OF WORK ON SITE.
- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

Drawn and Design: BHARATHI.R

Date : 08-07-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/ COLUMN,FOOTING&GRADE BEAM LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- GRADE BEAM LAYOUT AND DETAILS.

STRUCTURAL CONSULTANT:-

Er.BALAJI.M.E.,(struct).,

ARCHITECT :

DN STUDIO

Design n Architectural Studio India pvt ltd

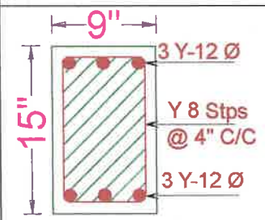
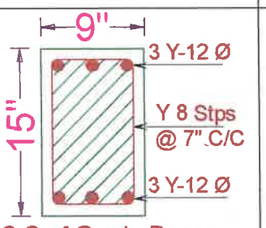
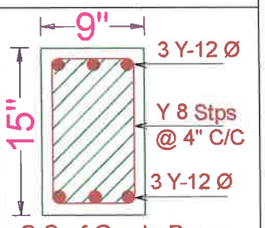
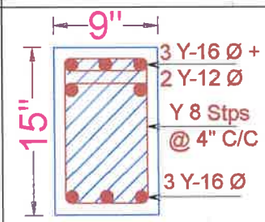
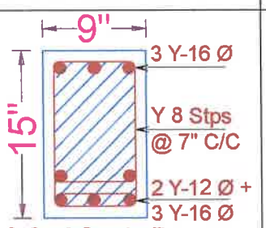
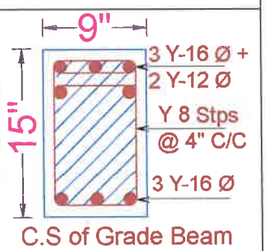
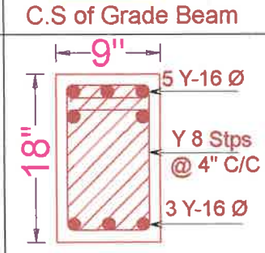
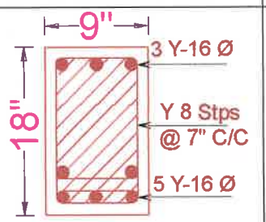
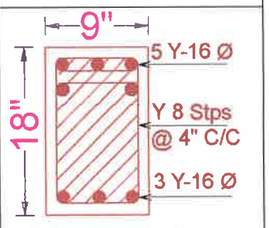
110, 3rd Street, Robertson Road,

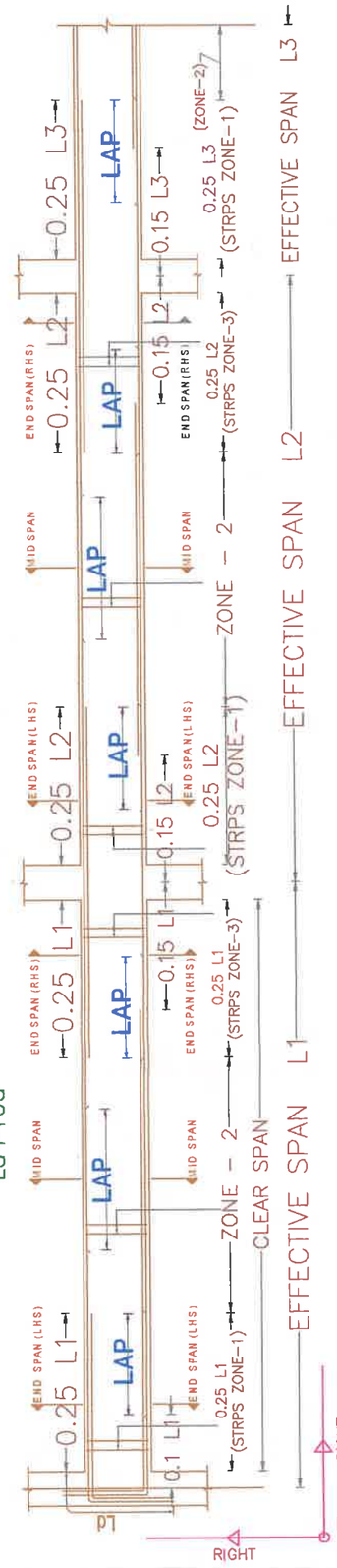
PM Swamy Colony, RS Puram,

Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

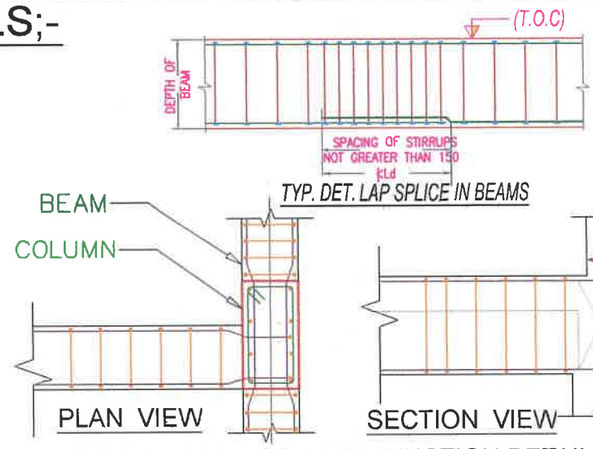
GRADE BEAM REINFORCEMENT DETAILS:-

Sl.No	Size	Name	L.H.S	MID	R.H.S
1.	9" X 15"	G.B- 1	 C.S of Grade Beam	 C.S of Grade Beam	 C.S of Grade Beam
2.	9" X 15"	G.B- 2	 C.S of Grade Beam	 C.S of Grade Beam	 C.S of Grade Beam
3.	9" X 18"	G.B- 3	 C.S of Grade Beam	 C.S of Grade Beam	 C.S of Grade Beam

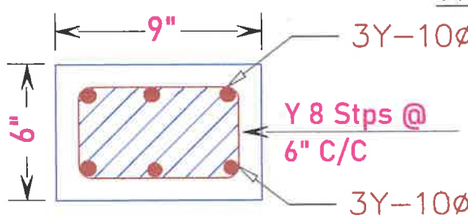


DUCTILE DETAILS;-

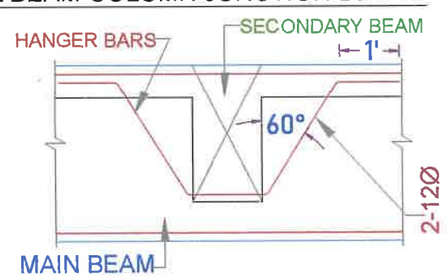
NOTE:-
IF BASEMENT HEIGHT IS MORE THAN 3'6", MUST PROVIDE THE TIE BEAM AT THE TOP OF BASEMENT.



TYPICAL BEAM COLUMN JUNCTION DETAIL



C.S of 9"X6" size Tie Beam.



DET. OF HANGER BARS IN MAIN BEAM

REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
- HIGH YIELD DEFORMED BARS CONFIRMING IS-1786-1985 BE USED. Fe - 500 GRADE.
- DISTANCE BETWEEN THE STRUCTURAL MEMBERS MUST BE CHECKED WITH ARCHITECTS DRAWING.
- A MINIMUM OF 21 DAYS WATER CURING REQUIRED FOR ALL CONCRETE STRUCTURES & IT'S RESPONSIBILITY OF OWNER AND CONTRACTOR.
- MUST TAKE CONCRETE(WHILE CONCRETING) SAMPLE AND MAKE MOULD AS CUBE FOR CONCRETE TEST AT REQUIRED TIME.
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- DIMENSION OF ELEVATION, PROJECTION, CU BOARD, BALCONY SIZE SHALL BE CHECKED WITH ARCHITECTURAL DRAWING.

Drawn and Design: BHARATHI.R
Date : 08-07-2024 | Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA -5/ COLUMN,FOOTING&GRADE BEAM LAYOUT DETAILS.

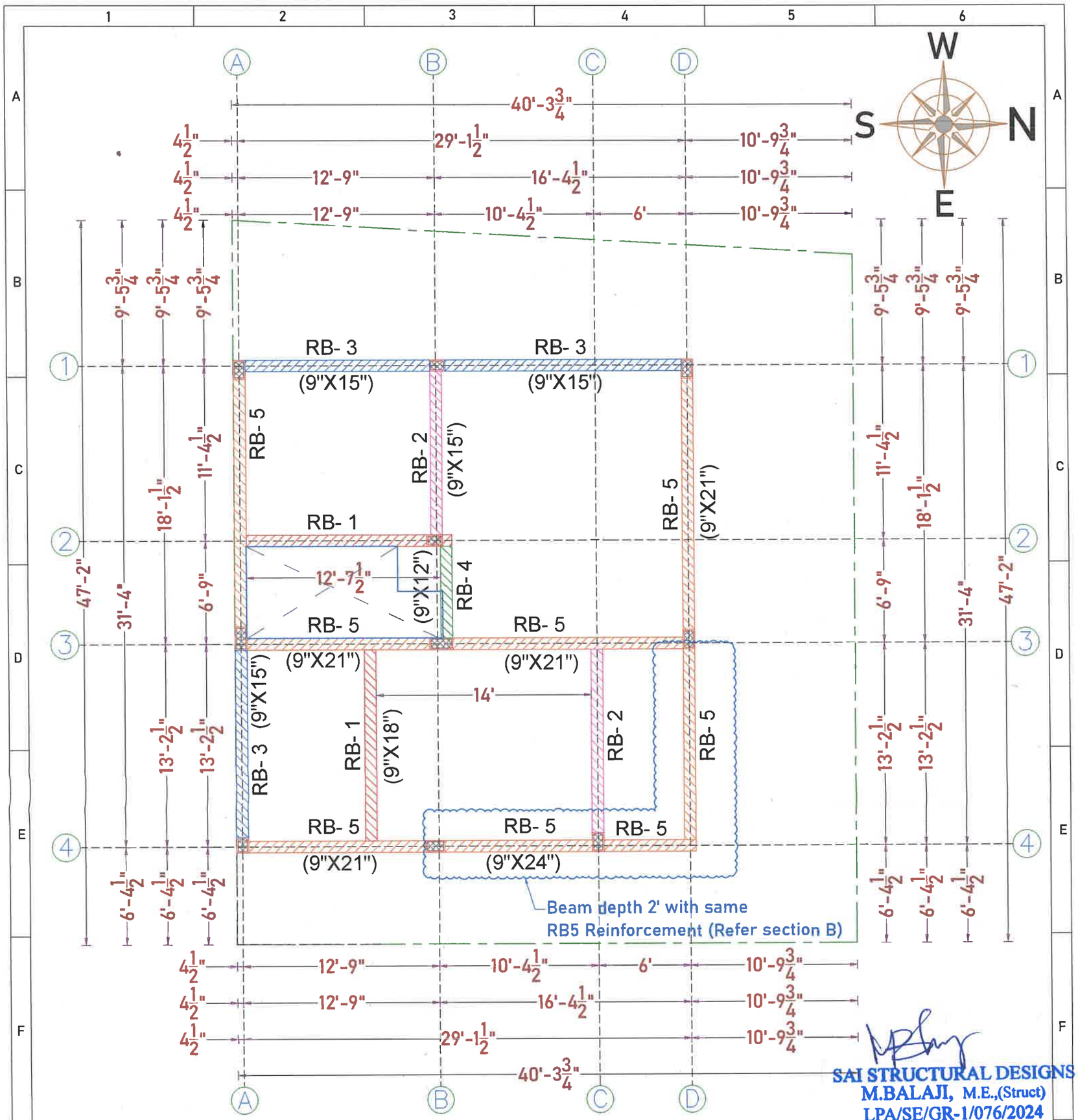
PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- GRADE BEAM (05) REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
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110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
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Coimbatore - 04

SOIL REPORT :- S.B.C. 300.0 kN/M ^{2} (AS PER SOIL REPORT)
LIVE LOAD :- 2 kN/M ^{2}

Ld FOR COMPRESSION : 47D
Ld FOR TENSION : 58D

REFERENCE:-

- ALL DIMENSIONS ARE IN FEET.
- ALL CONCRETE WORK SHALL BE CARRIED OUT AS PER IS 456 - 2000.
- USE MIX M20 FOR ALL CONCRETE WORK(USE READY MIX OR VOLUME BATCH) SHALL NOT LESS THAN 320Kg/cum AND VOLUME BATCHING THE MIX SHALL BE 1: 1.5:3.
- CLEAR COVER TO THE REINFORCEMENT FOR FOOTING 50mm, COLUMN 40mm, BEAM:30mm, SLAB:20mm.
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Drawn and Design: BHARATHI.R
Date :18-07-2024 Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/ GROUND FLOOR R.BEAM, R.SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- GROUND FLOOR ROOF BEAM LAYOUT AND DETAILS.

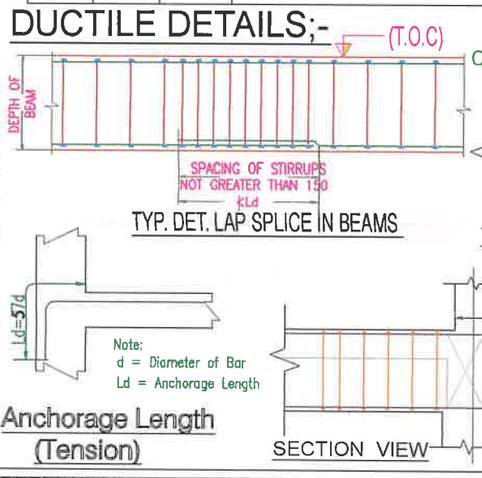
STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
STUDIO Coimbatore 641002 ph : +422-4367779

1.	9" X	R.B	18"	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 7" C/C 5 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø
2.	9" X 15"	R.B- 2	15"	3 Y-16 Ø + 2 Y-12 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 7" C/C 5 Y-16 Ø	3 Y-16 Ø + 2 Y-12 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø
3.	9" X 15"	R.B- 3	15"	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 7" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø
4.	9" X 12"	R.B- 4	12"	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 7" C/C 3 Y-16 Ø	3 Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-16 Ø
5.	9" X 21"	R.B- 5	21"	3Y-20 Ø + 2Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-20 Ø	3 Y-20 Ø Y 8 Stps @ 7" C/C 2Y-16 Ø + 3Y-20 Ø	3Y-20 Ø + 2Y-16 Ø Y 8 Stps @ 4" C/C 3 Y-20 Ø

All cells: 9" wide; C.S of Roof Beam

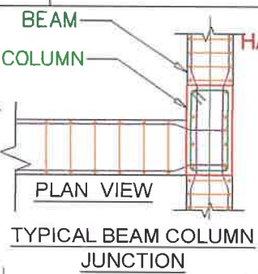
DUCTILE DETAILS;-



TYP. DET. LAP SPLICE IN BEAMS

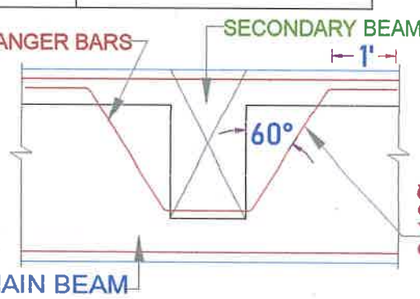
Anchorage Length (Tension)

SECTION VIEW



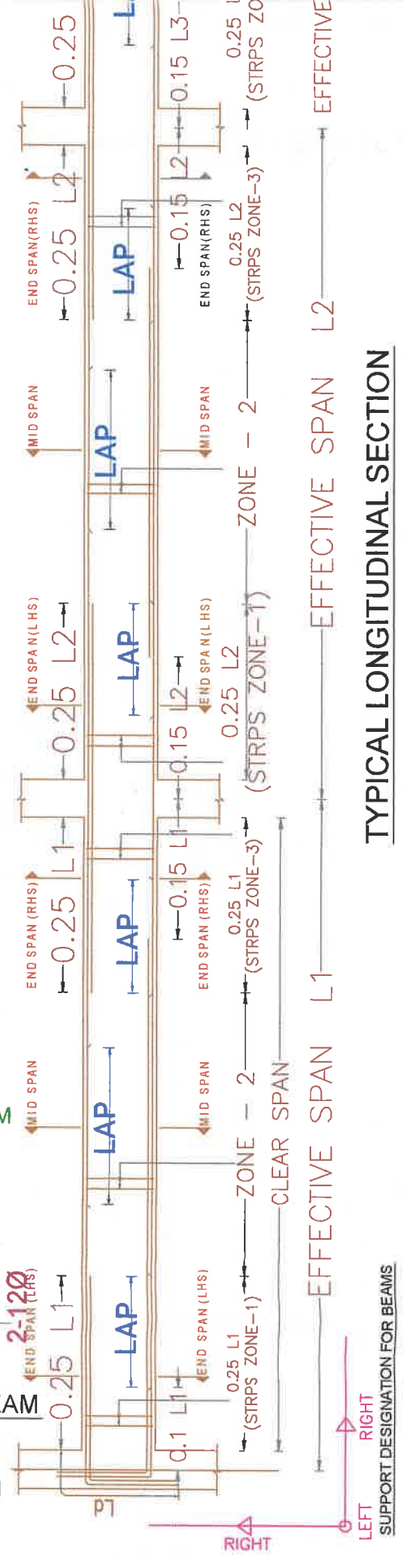
PLAN VIEW

TYPICAL BEAM COLUMN JUNCTION



MAIN BEAM

DET. OF HANGER BARS IN MAIN BEAM



TYPICAL LONGITUDINAL SECTION

* Y –DIA OF RIBBED STEEL

* LEVELS TO BE FIXED ON SITE CONDITION

* REFER BOUNDARY CONDITIONS

REFERENCE:-

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Drawn and Design: BHARATHI.R

Date :18-07-2024 Chd : BALAJI.M

Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/ GROUND FLOOR ROOF BEAM, ROOF SLAB LAYOUT DETAILS.

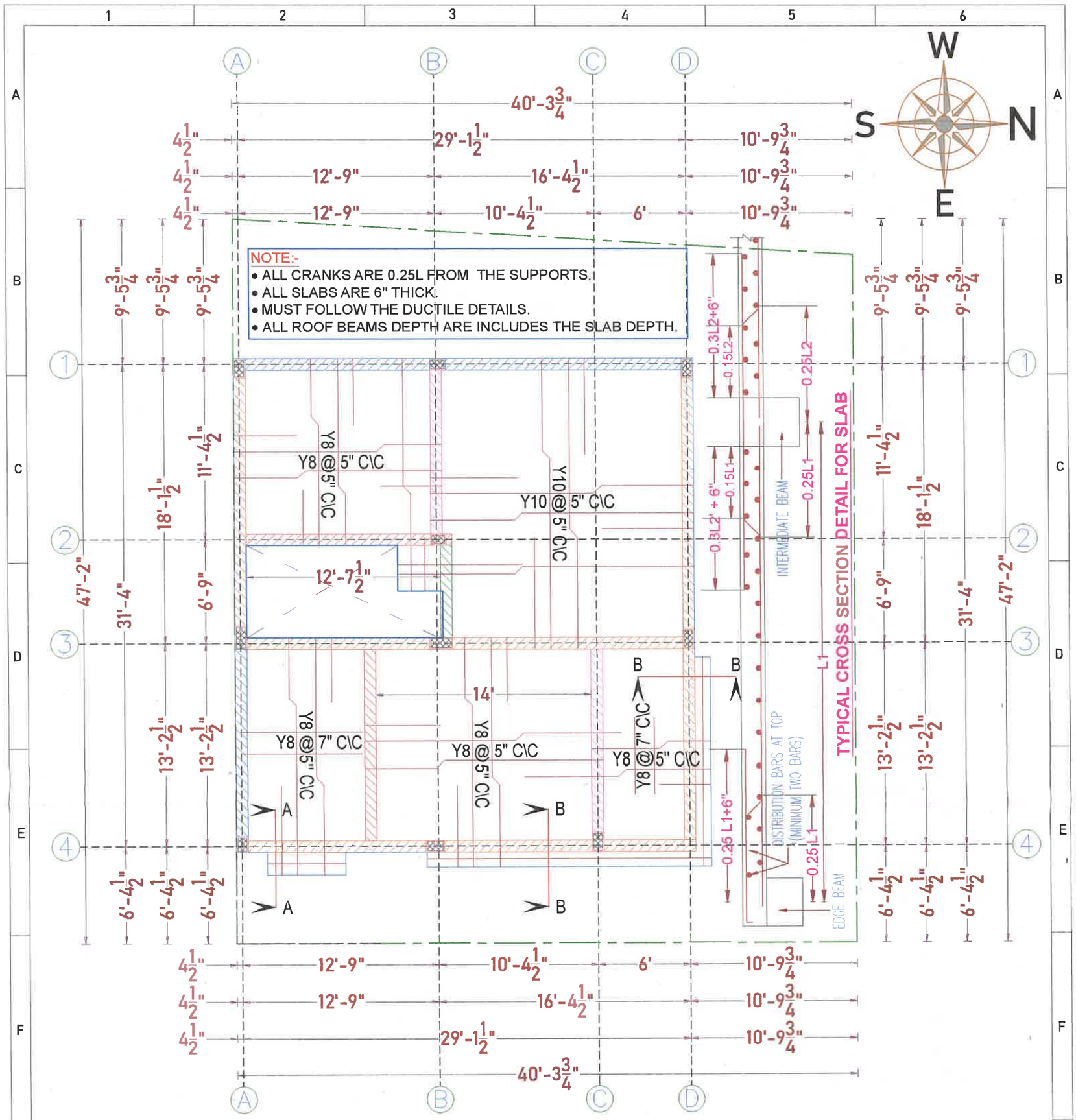
PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA- 05)

TITLE:- G.FLOOR ROOF BEAM REINFORCEMENT DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
STUDIO Coimbatore 641002 ph : +422-4367779

SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04



SOIL REPORT :- S.B.C. 300.0 kN/M ^{2} (AS PER SOIL REPORT)
LIVE LOAD :- 2 kN/M ^{2}

Ld FOR COMPRESSION : 47D
Ld FOR TENSION : 58D

REFERENCE:-

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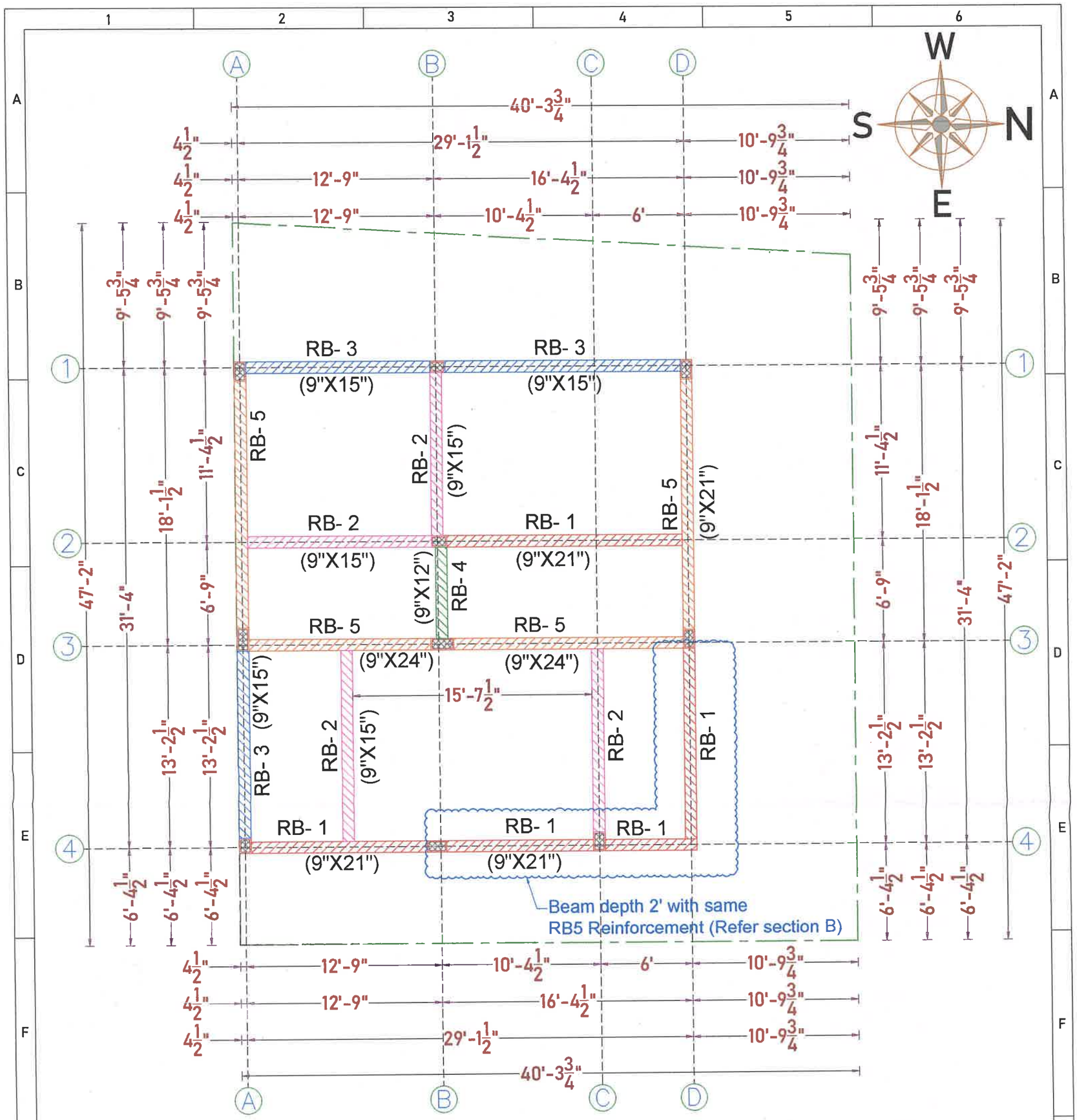
Drawn and Design: BHARATHI.R
Date :18-07-2024 Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/GROUND FLOOR R.BEAM, R.SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- GROUND FLOOR ROOF SLAB LAYOUT AND DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779



SOIL REPORT :- S.B.C. 300.0 kN/M ^{2} (AS PER SOIL REPORT)
LIVE LOAD :- 2 kN/M ^{2}

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Ld FOR TENSION : 58D

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SAI STRUCTURAL DESIGNS
M.BALAJI, M.E.,(Struct)
LPA/SE/GR-1/076/2024
Coimbatore - 04

Drawn and Design: BHARATHI.R
Date : 08-11-2024 Chd : BALAJI.M
Drg No : D/JOBS/D.N.A./PRAGADEESH/EAST/VILLA-5/FIRST FLOOR R.BEAM, R.SLAB LAYOUT DETAILS.

PROJECT: Mr.PRAGADEESH-VILLAS@TIRUPUR(VILLA-05)

TITLE:- FIRST FLOOR ROOF BEAM LAYOUT AND DETAILS.

STRUCTURAL CONSULTANT:-
Er.BALAJI.M.E.,(struct).,

ARCHITECT :
DNA STUDIO
Design n Architectural Studio India pvt ltd
110, 3rd Street, Robertson Road,
PM Swamy Colony, RS Puram,
Coimbatore 641002 ph : +422-4367779

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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

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real estate journey

3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

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+91 9996 12 9996
www.verified.realestate