



TRM CONSTRUCTION

Green Nest Homes

Er. T.MURUGANANDHAM .BE

DATE: 10.10.2022

To

The Principal,
Sri Bharathi Engineering College for Women,
Kaikkurichi,
Pudukkottai - 622 303.

Handwritten note: *Hand / as / kindly do the needful*
T.M.

Dear Sir/Madam,

With reference to your letter dated 05.09.2022, We would like to get the quotation for the Design of a Residential Building with a plinth area of 4200 sq.ft for duplex home with two floors as per the attached building plan. The design should include complete and accurate reinforcement detailing of all sections with drawings for each floor separately based on our requirements. Any other input or specific requirements or documents needed from our end may be provided for the completion of the design.

Thanking you

Handwritten signature in green ink

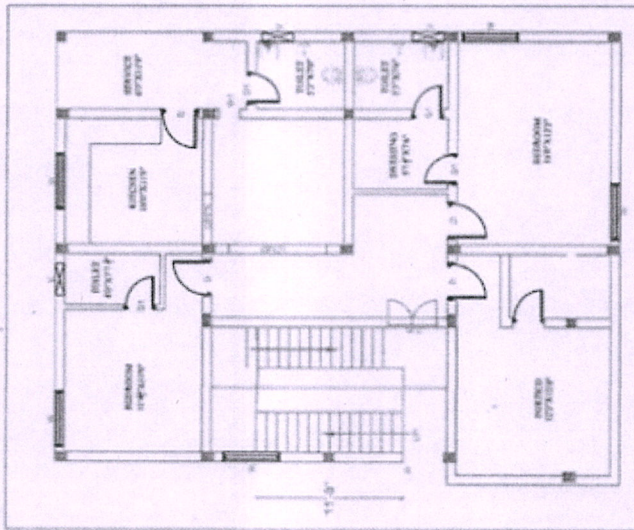
Engineer
Handwritten signature
T. MURUGANANDHAM, P.C.E.,
REGISTERED ENGINEER (G-VII)
10/10/22
T.R.M. CONSTRUCTIONS
A.I.R. Complex, Melavaladi, Trichy-621 218
Cell: +91 99521 56613

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL

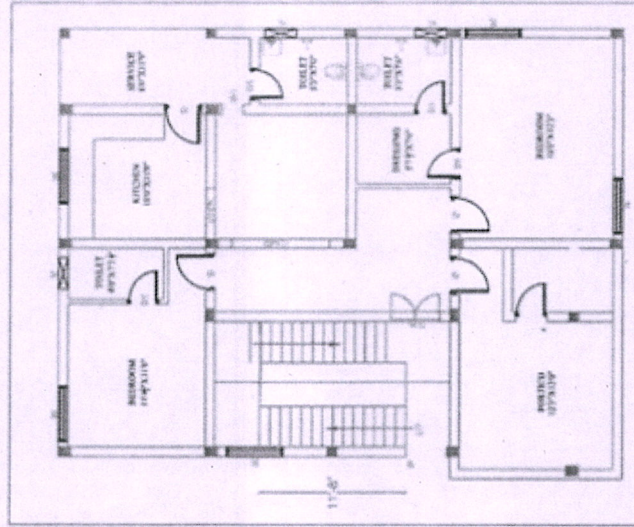
**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**
Kaikkurichi - 622 303, Pudukkottai Dt.

A.I.R.COMPLEX, J.S GARDEN MELAVALADI POST,
LALGUDI MAIN ROAD, TIRUCHIRAPPALLI DISTRICT -621218.

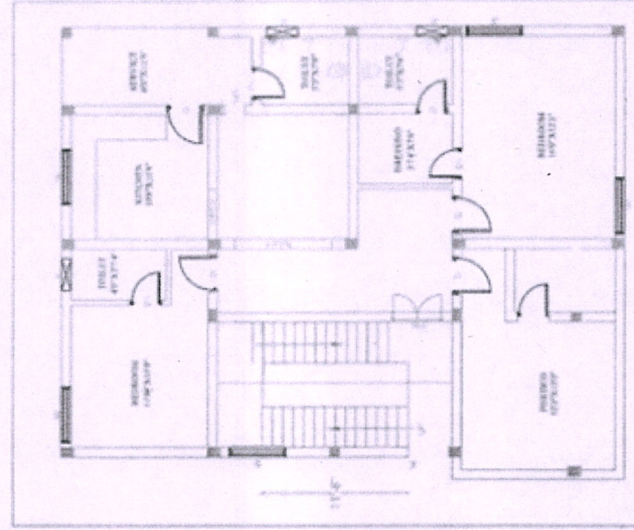
P2




GROUND FLOOR PLAN



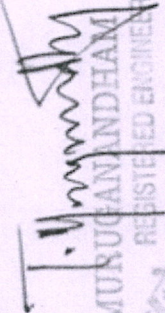
FIRST FLOOR PLAN

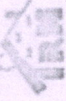


SECOND FLOOR PLAN



Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 Kaikurchi - 622 303, Pudukkottai Dt.



T. MURUGANANDHAM D.C.E.,
 REGISTERED ENGINEER (G-III)

T.R.M. CONSTRUCTIONS
 A.I.R. Complex, Melavalladi, Trichy-621 218
 Cell: +91 99521 56613



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Pudukkottai - Aranthangi Road,
Kaikkurichi, Pudukkottai - 622 303.

Date : 27.10.2022.

To

TRM Construction

A.I.R Complex

Lalkudi Main Road

Trichy-621218


Respected Sir,

Sub: Submission of quotation for consultancy work "Design of Residential Building" – Reg.

Greetings from Sri Bharathi Engineering College for Women !!!

On behalf of our Organization, I would like to extend our appreciation to you for showing interest in our organization regarding consultancy project work. In continuation with your reference letter dated 10.10.2022, we would like to quote the charges for the consultancy work 'Design of a residential building' as Rs.37, 800/- (Rs. 9 per sq.ft). We assure to furnish all the details within the stipulated time and as per your requirements.

Thanking you



PRINCIPAL
27/10/22

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT



Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



TRM CONSTRUCTION

Green Nest Homes

Er. T.MURUGANANDHAM .BE

DATE: 09.11.2022

To

The Principal,
Sri Bharathi Engineering College for Women,
Kaikkurichi,
Pudukkottai – 622 303.

Dear Sir/Madam,

With reference to your project work quotation letter dated 27.10.2022, We would like to approve Rs.37,800/- as an endowment towards successful submission of our requirements mentioned in the letter dated 10.10.2022 and the work may be completed within 30 days from the date of this letter. Please contact us if you have any clarifications about the sanctioned endowment work.

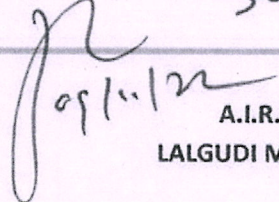
Thanking you

Hing / ai |

Necessary action may
Please be taken to
Complete the work within
30 days.

Engineer


T. MURUGANANDHAM, D.C.E.,
REGISTERED ENGINEER (G-III)
 T.R.M. CONSTRUCTIONS
A.I.R. Complex, Melavaladi, Trichy-621 218
Cell: +91 99521 56613


A.I.R.COMPLEX, J.S GARDEN MELAVALADI POST,
LALGUDI MAIN ROAD, TIRUCHIRAPPALLI DISTRICT -621218.


Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Kaikkurichi, Pudukkottai - 622 303.

DEPARTMENT OF CIVIL ENGINEERING

CONSULTANCY PROJECT WORK

REPORT

DESIGN OF RESIDENTIAL BUILDING

SUBMITTED

TO

TRM Construction,

A.I.R Complex,

Lalkudi Main Road,

Trichy-621218

REPORT DATE : 29.12.2022


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

CONSULTANCY PROJECT REPORT

As per your requirement, we designed a plan (G+2) which was given by you using STADD PRO with reinforcement details. We hereby attached a hard copy of it for your reference. Kindly come and collect the original copy in person from our institution. In case of any alterations, we will redesign as per your need.

A. Srinivasan
29/12/22
TEST CONDUCTED

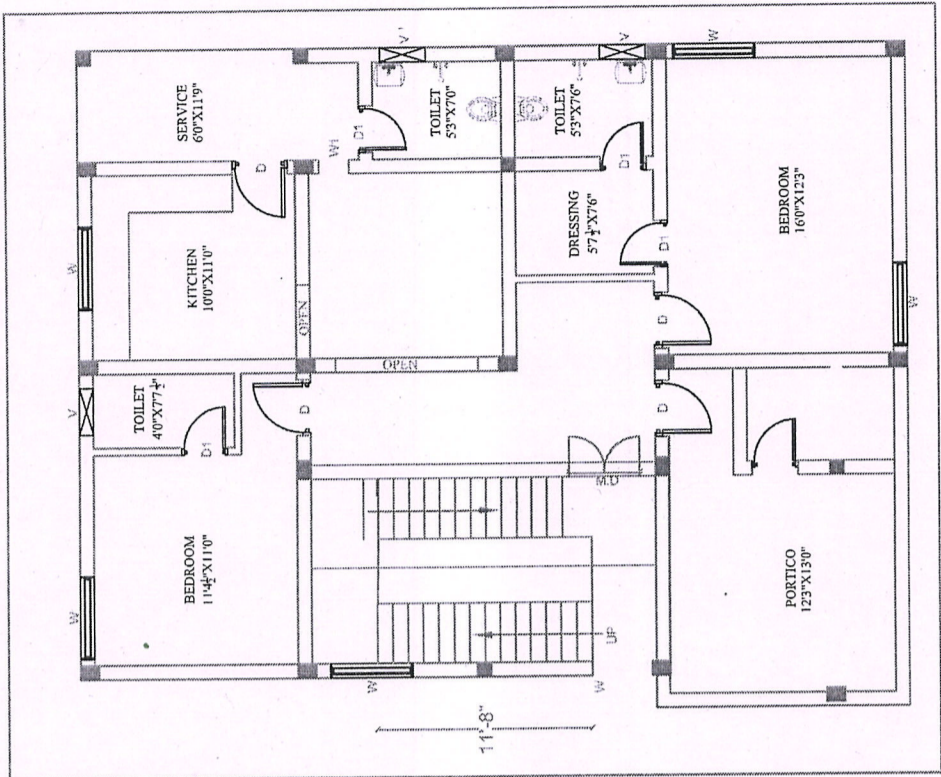
R. Srinivasan
HoD 29/12/22
HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

[Signature]
PRINCIPAL
29/12/22
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

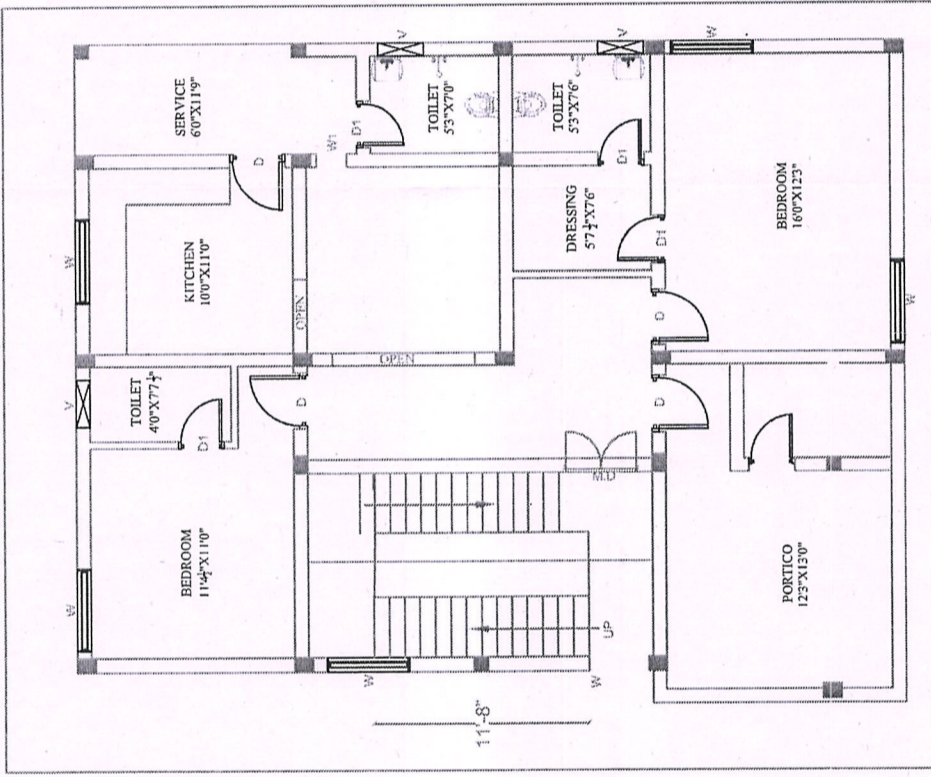
Recd by
[Signature]
29/12/22

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

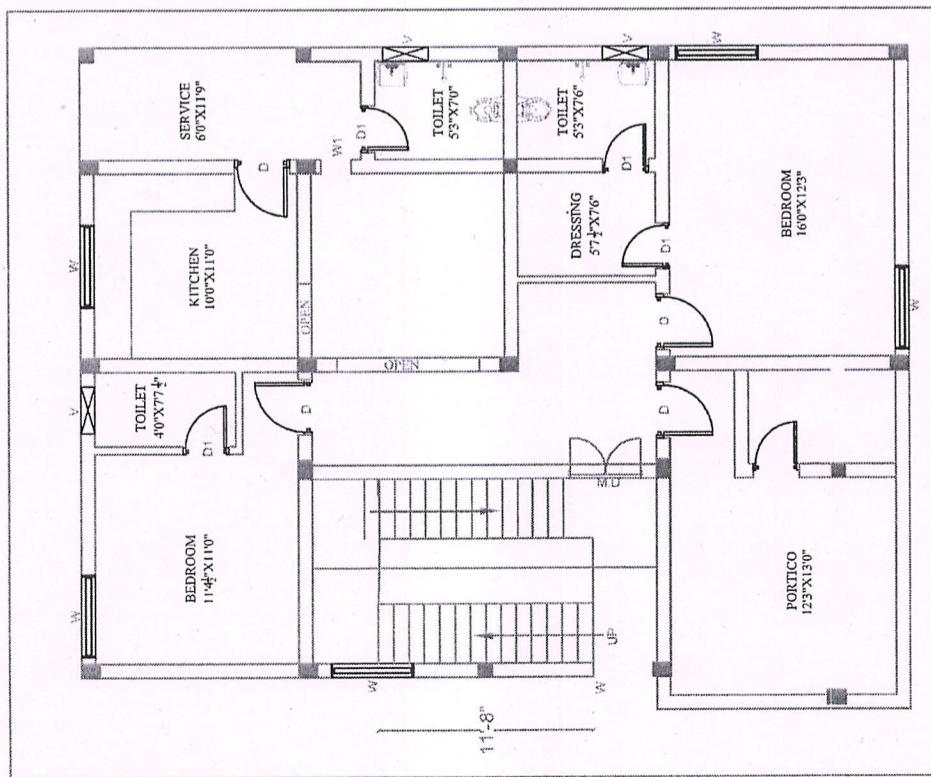
Y2



SECOND FLOOR PLAN



FIRST FLOOR PLAN



GROUND FLOOR PLAN

Reviewed by *[Signature]*

[Signature]

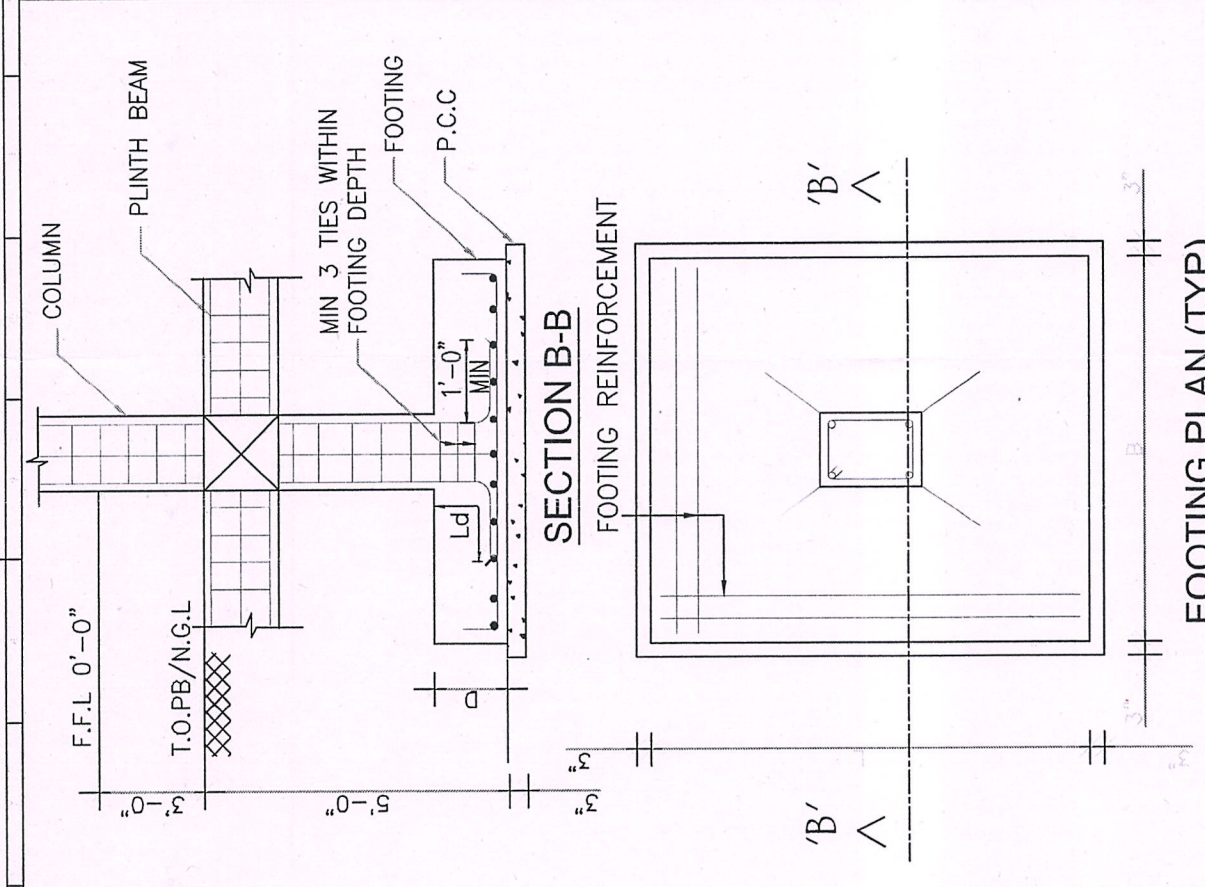
Dr. S. THILAGAVATHI M.E., PH.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kalbhurubi - 622 303, Pudukkottai Dt.

P2.



THIS DRAWING IS FOR EXCAVATION PURPOSE ONLY

CLEAR COVER
FOOTING = 2"
COLUMN = 1.5"

MINIMUM DEPTH OF EXCAVATION
5 FEET BELOW THE
NATURAL GROUND LEVEL

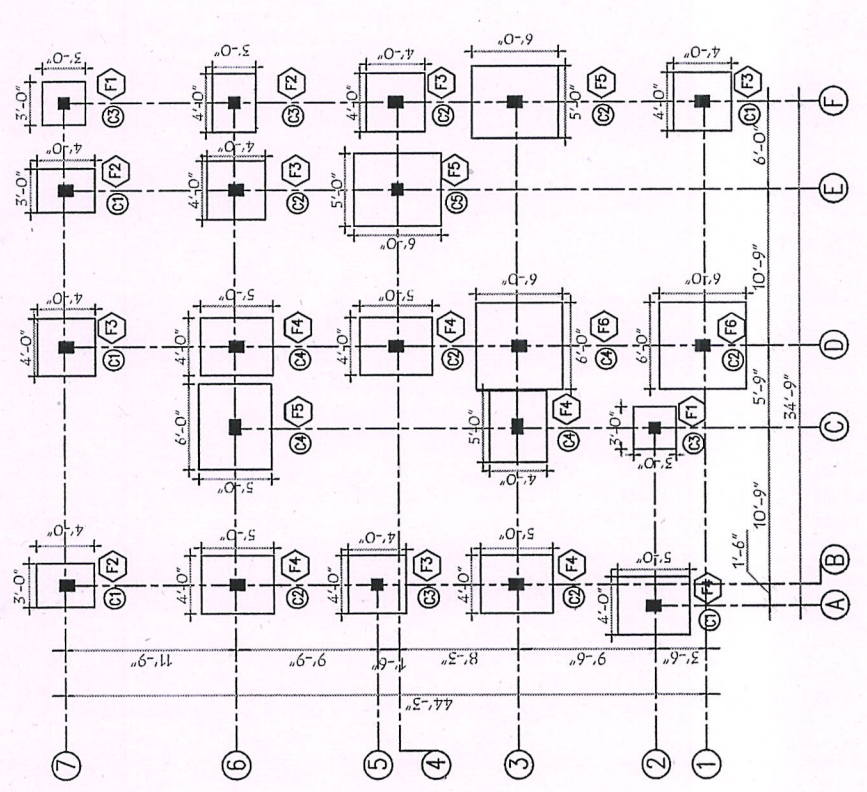
ALL DIMENSIONS ARE IN
FEET AND INCHES

GRADE OF CONCRETE - M20

GRADE OF STEEL - Fe 500

SCHEDULE OF COLUMNS

S.NO	COLUMN TYPE	SIZE	CROSS SECTION	LONGITUDINAL RFT	LATERAL TIES
1.	C1	12"X12"		6 - #16	#8@7" c/c [1Tie]
2.	C2	12"X12"		6 - #16	#8@7" c/c [1Tie]
3.	C3	9"X12"		6 - #12	#8@7" c/c [1Tie]
4.	C4	12"X12"		6 - #16	#8@7" c/c [1Tie]
5.	C5	9"X12"		6 - #16	#8@7" c/c [1Tie]



FOOTING LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

SCHEDULE OF FOOTINGS

TYPE	FOOTING SIZE		FOOTING REINFORCEMENT
	L	B	
F1	3'-0"	3'-0"	BOTHWAYS - #12 @ 6"C/C
F2	4'-0"	3'-0"	BOTHWAYS - #12 @ 6"C/C
F3	4'-0"	4'-0"	BOTHWAYS - #12 @ 6"C/C
F4	5'-0"	4'-0"	BOTHWAYS - #16 @ 6"C/C
F5	6'-0"	5'-0"	BOTHWAYS - #16 @ 6"C/C
F6	6'-0"	6'-0"	BOTHWAYS - #16 @ 6"C/C

CLIENT : TRM CONSTRUCTION

DESIGNER : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN.
KAIKURCHI,
PUDUKKOTTAI.

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

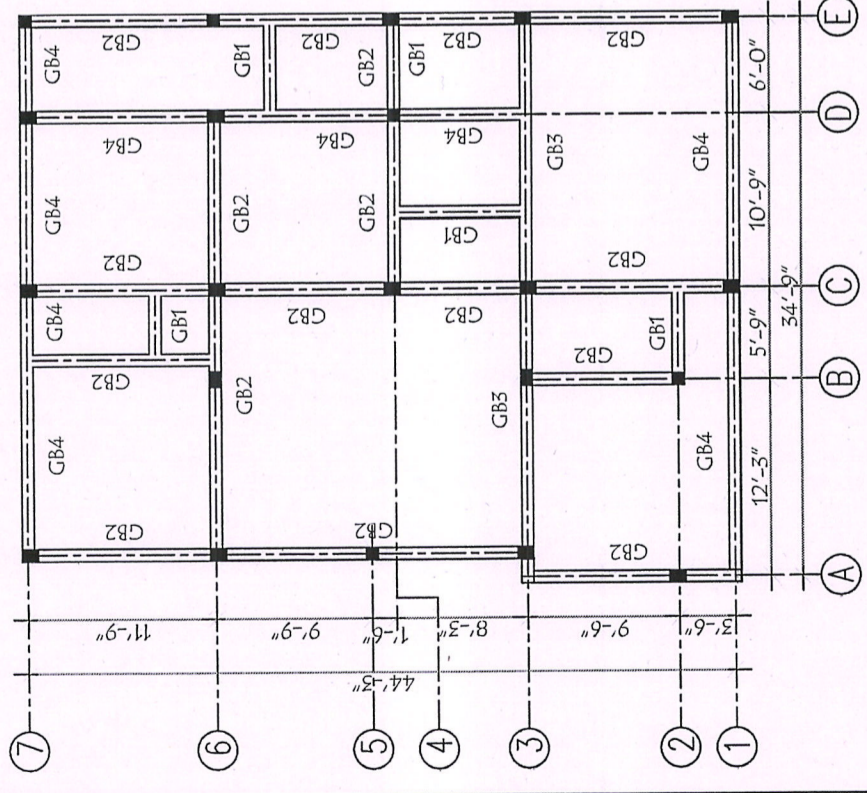
TITLE : R.C DETAIL OF COLUMNS & FOOTINGS

SCALE : NTS

SHEET REV
1 OF 1.00

DR. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Revised by
[Signature]



GROUND FLOOR ROOF BEAM LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

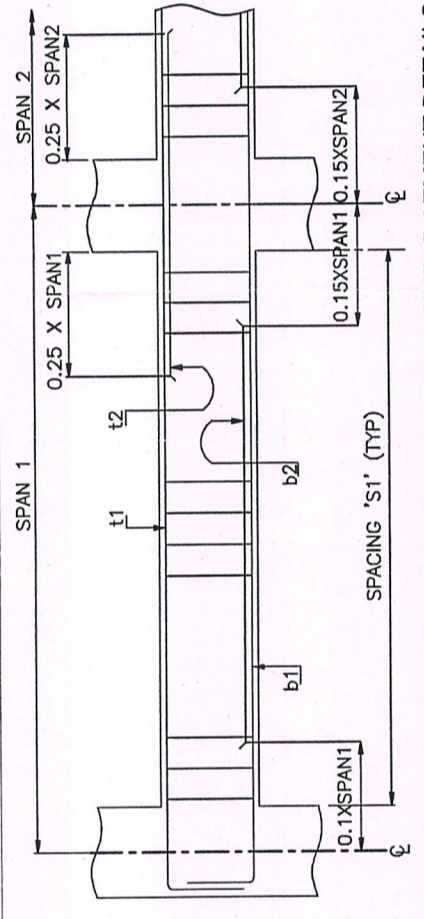
ISSUED FOR CONSTRUCTION

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500



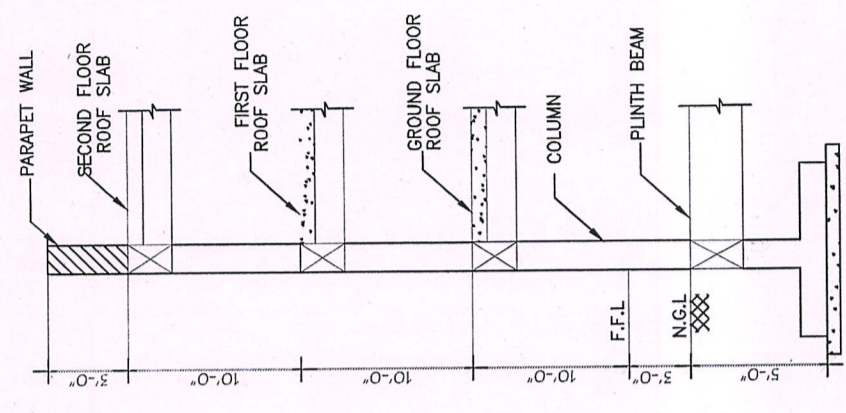
TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

BEAM REINFORCEMENT SCHEDULE

BEAM MARKED	BEAM SIZE WIDTH (W)	DEPTH (D)	ELEVATION LVL (T.O.C)	BOTTOM RFT (b1)	BOTTOM RFT (b2) EXTRA	TOP RFT (t1)	TOP RFT (t2) EXTRA	STIRRUPS 2 LEGGED LEG-DIA SPACING S1
GB1	12"	12"	EL.(+)'10'-0"	2 - # 16	1 - # 16	2 - # 16	-	# 8 7"
GB2	12"	12"	EL.(+)'10'-0"	2 - # 16	2 - # 16	2 - # 16	2 - # 12	# 8 7"
GB3	12"	12"	EL.(+)'10'-0"	2 - # 16	-	2 - # 16	-	# 8 7"
GB4	12"	12"	EL.(+)'10'-0"	2 - # 16	1 - # 16	2 - # 16	-	# 8 7"

[Handwritten Signature]

Dr. S.THILAGAVATHI M.E., Ph.D.
PRINCIPAL
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN



TYP SECTIONAL ELEVATION FOR COLUMN

CLIENT : TRM CONSTRUCTION

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN. KAIKURCHI. PUDUKKOTTAI.

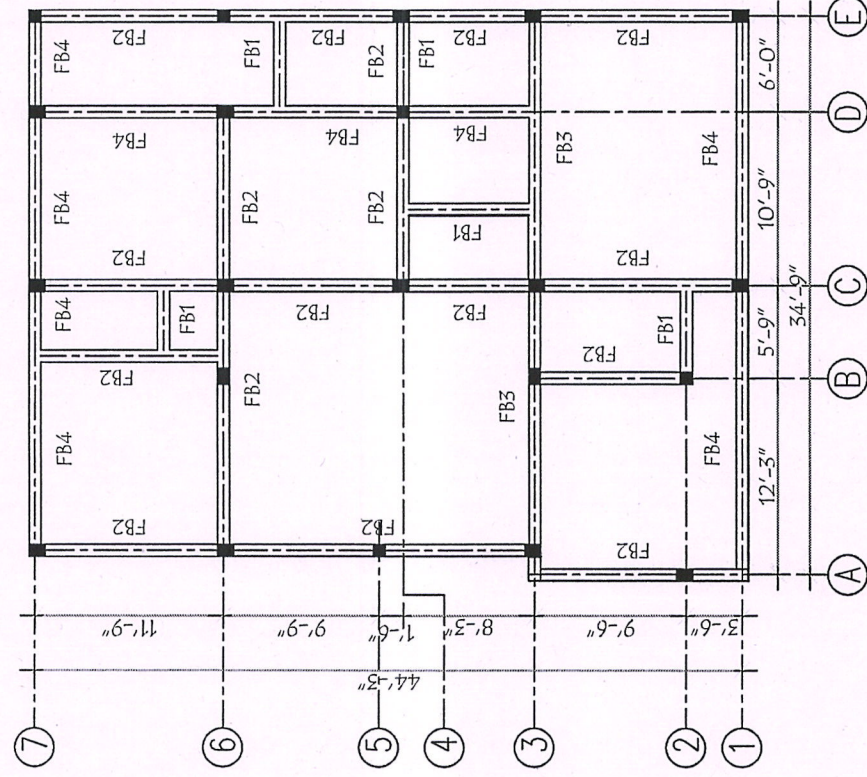
PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF GROUND FLOOR ROOF BEAM

SCALE : NTS

SHEET REV 1 OF 1.00

Recd by T.M.M...



FIRST FLOOR ROOF BEAM LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

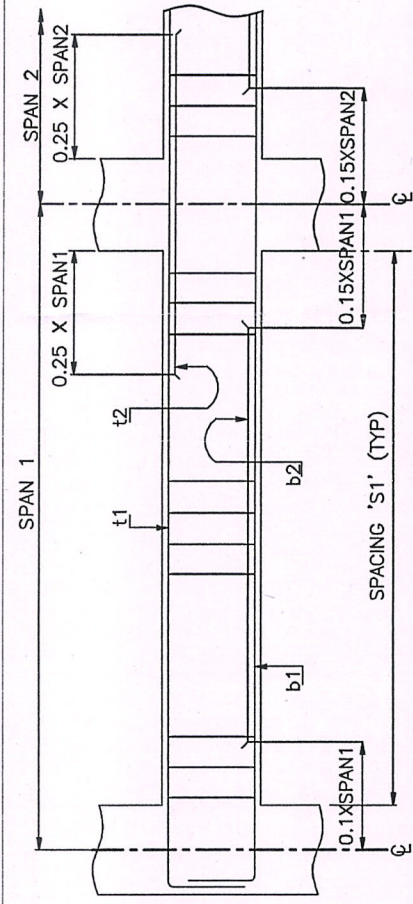
ISSUED FOR CONSTRUCTION

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500



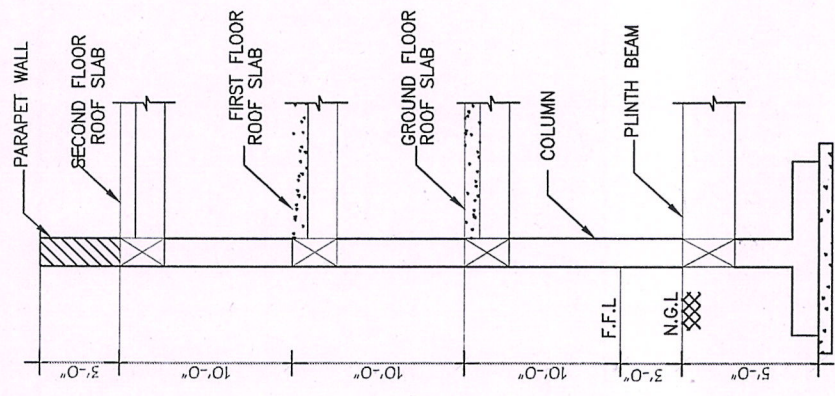
TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

BEAM REINFORCEMENT SCHEDULE

BEAM MARKED	BEAM SIZE WIDTH (W)	BEAM SIZE DEPTH (D)	ELEVATION LVL (T.O.C)	BOTTOM RFT (b1)	BOTTOM RFT (b2) EXTRA	TOP RFT (t1)	TOP RFT (t2) EXTRA	STIRRUPS 2 LEGGED	
								LEG-DIA	SPACING S1
FB1	9"	12"	EL.(+20'-0"	2 - # 12	1 - # 12	2 - # 12	-	# 8	7"
FB2	9"	12"	EL.(+20'-0"	2 - # 12	2 - # 16	2 - # 12	1 - # 12	# 8	7"
FB3	9"	12"	EL.(+20'-0"	2 - # 12	-	2 - # 12	-	# 8	7"
FB4	9"	12"	EL.(+20'-0"	2 - # 12	1 - # 16	2 - # 12	-	# 8	7"

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.
 PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN



TYP SECTIONAL ELEVATION FOR COLUMN

CLIENT : TRM CONSTRUCTION

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKURCHI, PUDUKKOTTAI.

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF FIRST FLOOR ROOF BEAM

SCALE : NTS

SHEET REV 1 OF 1 00

[Signature]

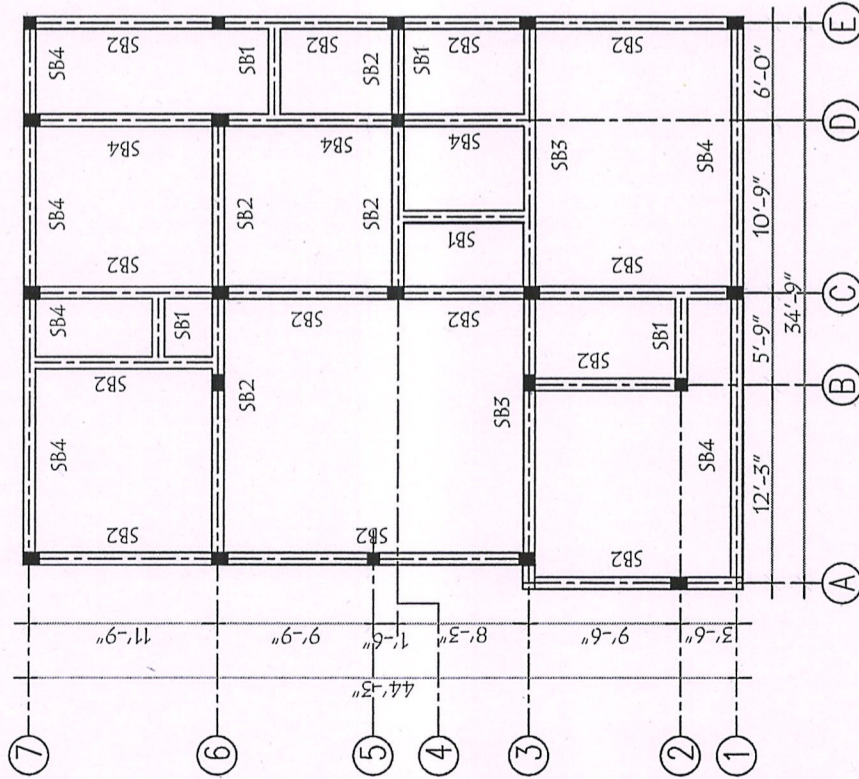
ISSUED FOR CONSTRUCTION

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

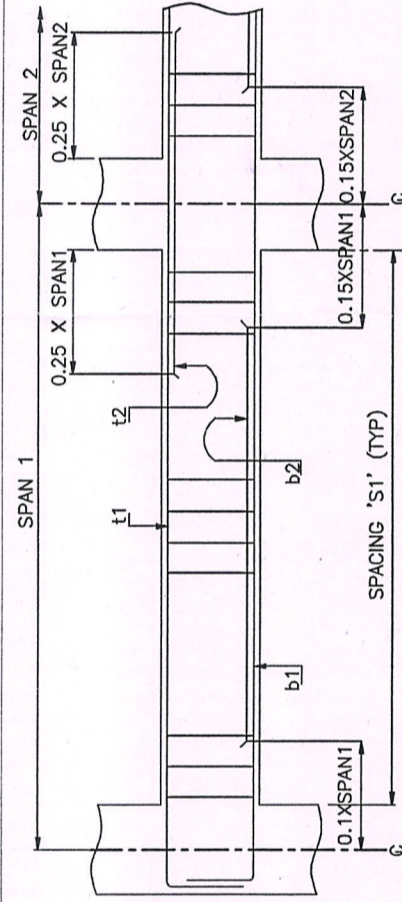
GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500



SECOND FLOOR ROOF BEAM LAYOUT

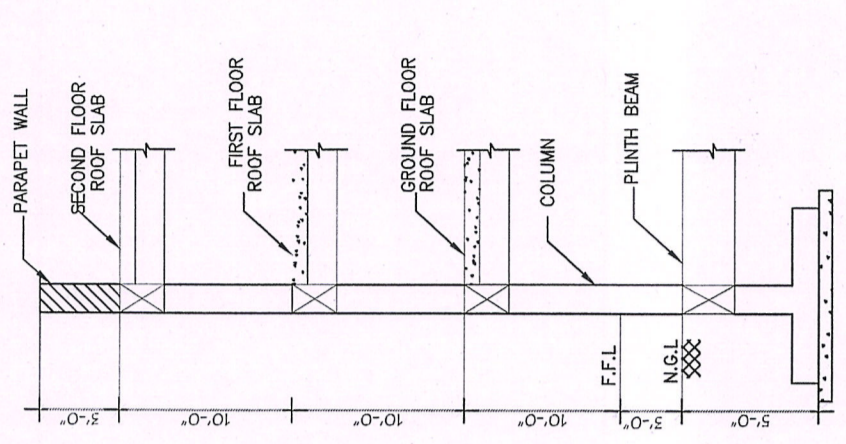
(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)



TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

BEAM REINFORCEMENT SCHEDULE

BEAM MARKED	BEAM SIZE WIDTH (W)	DEPTH (D)	ELEVATION LVL (T.O.C)	BOTTOM RFT		TOP RFT		STIRRUPS 2 LEGGED	
				(b1)	(b2) EXTRA	(t1)	(t2) EXTRA	LEG-DIA	SPACING S1
SB1	12"	12"	EL(+30'-0")	2 - # 10	1 - # 12	2 - # 12	-	# 8	7"
SB2	12"	12"	EL(+30'-0")	2 - # 10	2 - # 12	2 - # 12	-	# 8	7"
SB3	12"	12"	EL(+30'-0")	2 - # 10	-	2 - # 12	-	# 8	7"
SB4	12"	12"	EL(+30'-0")	2 - # 10	1 - # 12	2 - # 12	-	# 8	7"



TYP SECTIONAL ELEVATION FOR COLUMN

CLIENT : TRM CONSTRUCTION

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKURCHI, PUDUKKOTTAI.

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

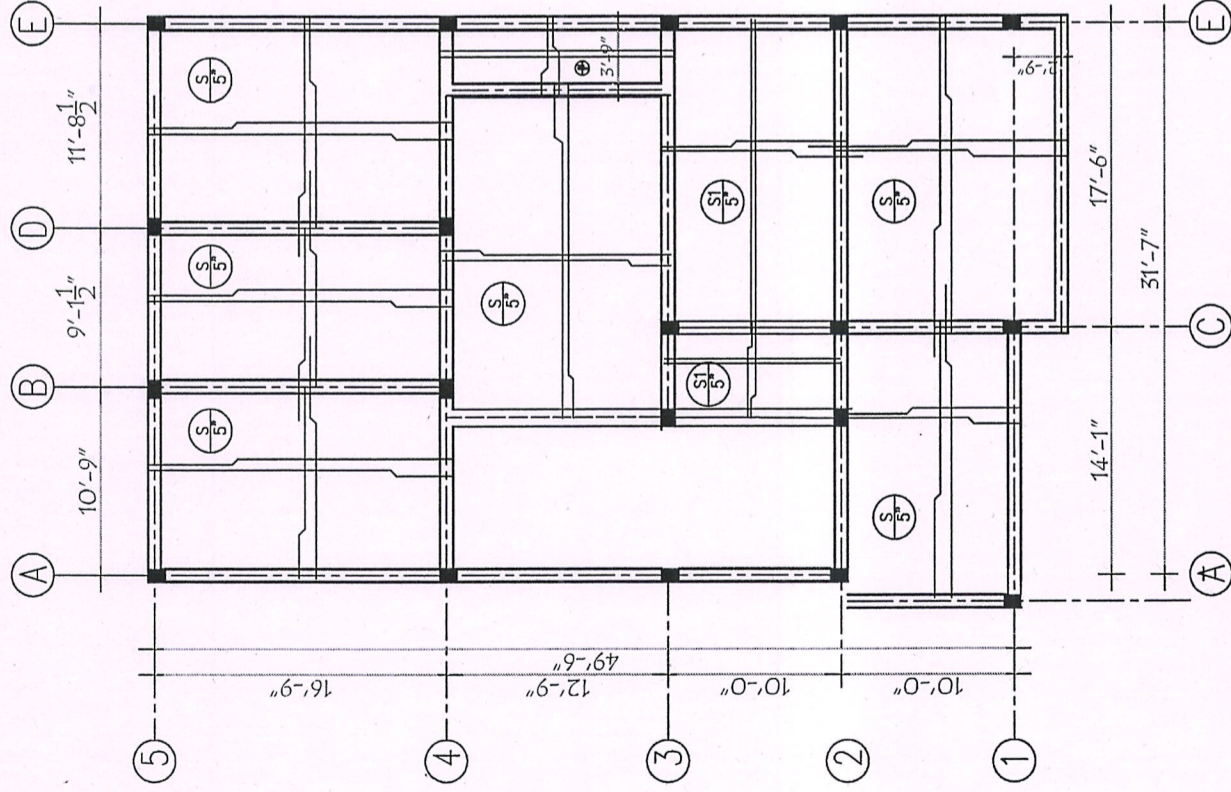
TITLE : R.C DETAIL OF SECOND FLOOR ROOF BEAM

SCALE : NTS
SHEET REV 1 OF 1 00

Dr. S. THILAGAVATHI M.E., Ph.D. PRINCIPAL

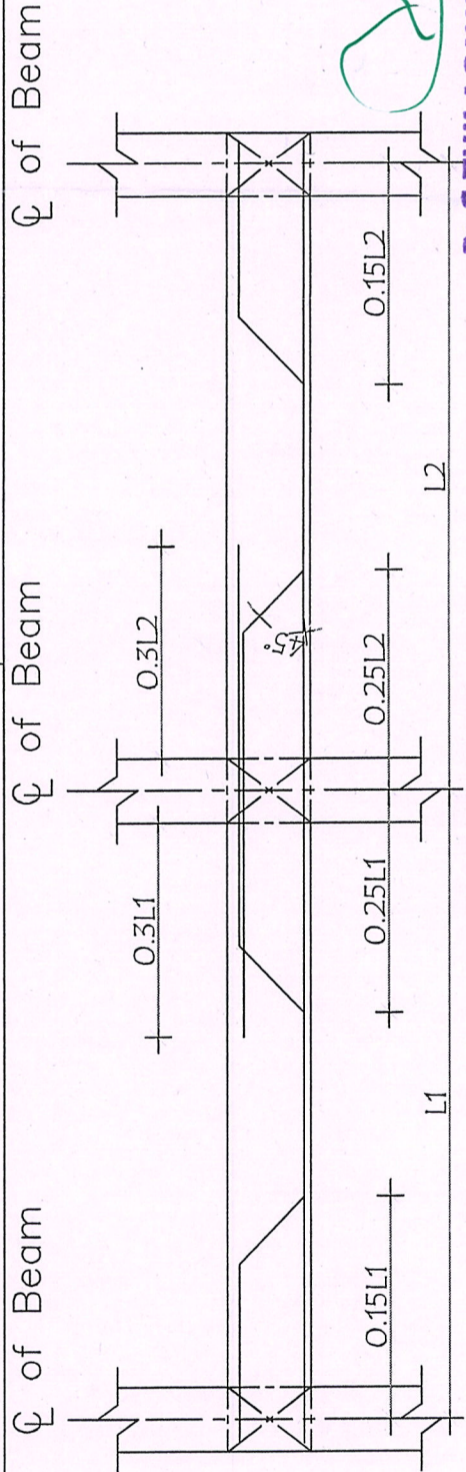
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Revised by



FLOOR SLAB LAYOUT T.O.S

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)



SLAB CRANK DETAIL (TYP)

SCHEDULE OF SLAB

NAME	SLAB TYPE	REINFORCEMENT
(S)	TWOWAY SLAB	# 10 @ 7"C\C -BOTH WAYS
(S1)	ONEWAY SLAB	# 10 @ 7"C\C -BOTH WAYS

ISSUED FOR CONSTRUCTION

ALL LEVELS ARE FOLLOWED FROM F.F.I

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = SLAB - 3/4"

GRADE OF CONCRETE - M20

GRADE OF STEEL - Fe 500

CLIENT : TRM CONSTRUCTION

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN. KAIKURCHI. PUDUKKOTTAI.

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF ROOF SLAB

SCALE : NTS

SHEET REV 1 OF 1.00

DR. S. THILAGAVATHI M.E., Ph.D.
PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

D. Senthil Kumar



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Pudukkottai - Aranthangi Road,
Kaikkurichi, Pudukkottai - 622 303.

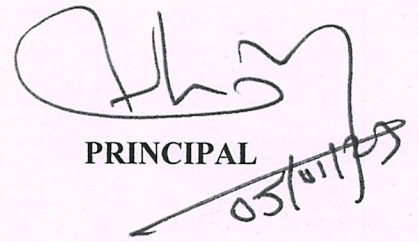
Date : 5.1.2023

UTILISATION CERTIFICATE

Certified that an amount of Rs. 37,800/- (thirty-seven thousand eight hundred only) sanctioned during the year 2023 in favor of civil engineering received from TRM Construction has been utilized for the project consultancy work titled "Design of Residential Building". The purpose for which it was sanctioned has been duly fulfilled and delivered as per the conditions of the grant.

A. Srinivas
5/1/23

PROJECT INVESTIGATOR



PRINCIPAL

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.