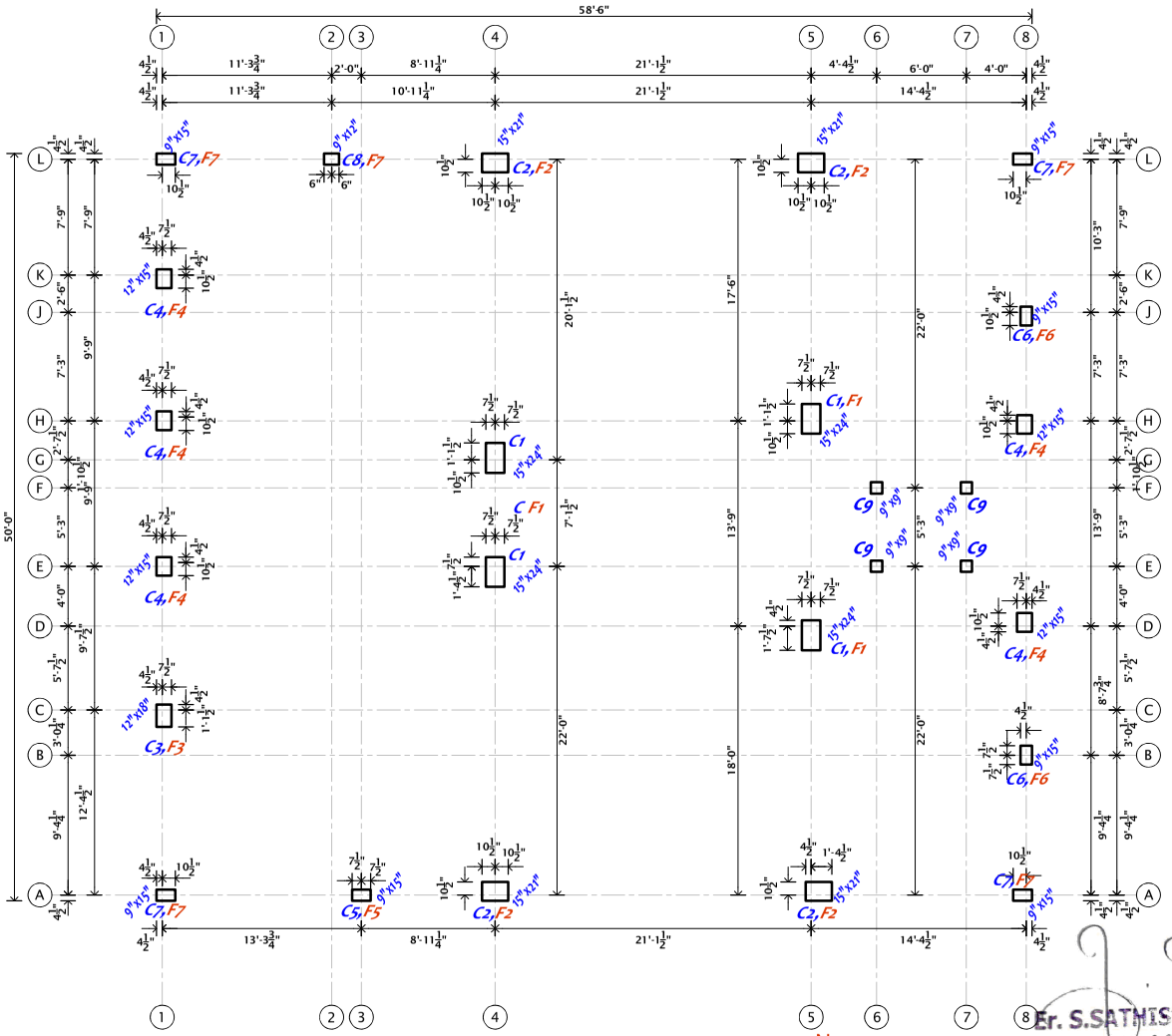



## LAYOUT OF CENTER LINE MARKING

(Scale 1" = 6'0")

N


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## General Notes:

1. ALL DIMENSIONS ARE IN FEET-INCHES [METER]
2. SBC OF SOIL AS PER SOIL TEST REPORT IS 201 kN/M²
3. FOUNDATION DESIGNED FOR STILT + 4 UPPER FLOOR ONLY
4. CONCRETE GRADE SHALL BE FOR COLUMNS M25 (1:1:2) & OTHER ELEMENTS M20 (1:1½:3) CONFIRMING TO IS 456 : 2000
4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHOULD BE Fe500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT FOOTING = 2", COLUMN = 1.5", BEAM = 1", SLAB = ¾"
6. HOOK 90 DEG TOP BARS OF EARTH / PLINTH BEAM
7. CONCRETE SHOULD BE VIBRATED
8. LAP LENGTH SHALL BE AS PER (SP: 34-1999) TABLE BELOW DEVELOPMENT LENGTH FOR COLUMN BARS - 40d, FOR BEAMS - 50D
9. LAPS IN BEAMS & SLAB SHALL BE PROVIDED AT THE POINT OF CONTRA FLEXURE
10. DON'T USE SALT CONTENT WATER IN CONCRETE
11. USE PEST CONTROL TERMINATOR IN FOUNDATION DITCH BEFORE TO RE-FILLING & ALSO USE IN BASEMENT FILLING
12. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT DONE FOR VARIOUS MEMBERS (via) BEAMS, SLABS, COLUMN, FOOTING, ETC. AND SHOULD BE CHECKED AS PER STRUCTURAL LATEST REVISION DRAWINGS BY QUALIFIED SITE CIVIL ENGINEER TO AVOID ANY MISTAKE AT SITE IN FABRICATION OF REINFORCEMENT BAR *(IF SITE VISIT NOT MADE BY US WE ARE NOT RESPONSIBLE FOR THE STRUCTURE)*
13. BEFORE TO FIX THE BUILDING SETTING OUT POINT, CHECK ROAD WIDTH AS PER FMB & ALL OTHER SIDE DIMENSIONS AS PER DOCUMENTS
14. THE BUILDING CONTRACTOR IS FULL RESPONSIBLE FOR FIXING THE BUILDING SETTING OUT POINT & BUILDING SUPERVISION

## Legend 2

| | |
|---|---|
| 9"x15" | Column Size |
| 9"x15" | Column Size |
| C1 to C9 | Column Mark |
| F1 to F7 | Footing Mark |
| C4,F4 | Column & Footing Mark |
| 4'-0" [1.22] | Dimensions for Excavation Size *(Located near Footing)* |
| 3'-6" | Dimensions for Footing Size *(Located near Footing)* |

## Legend 1

SD 2 01

- DRAWING SHEET SERIES
- PRINTABLE SHEET SIZE (A2)
- STRUCTURAL DRAWING

| Rev | Drawn | Date | Particulars / Description | Chkd | Apprd |
|---|---|---|---|---|---|
| A | Cnu | 09/Mar/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title

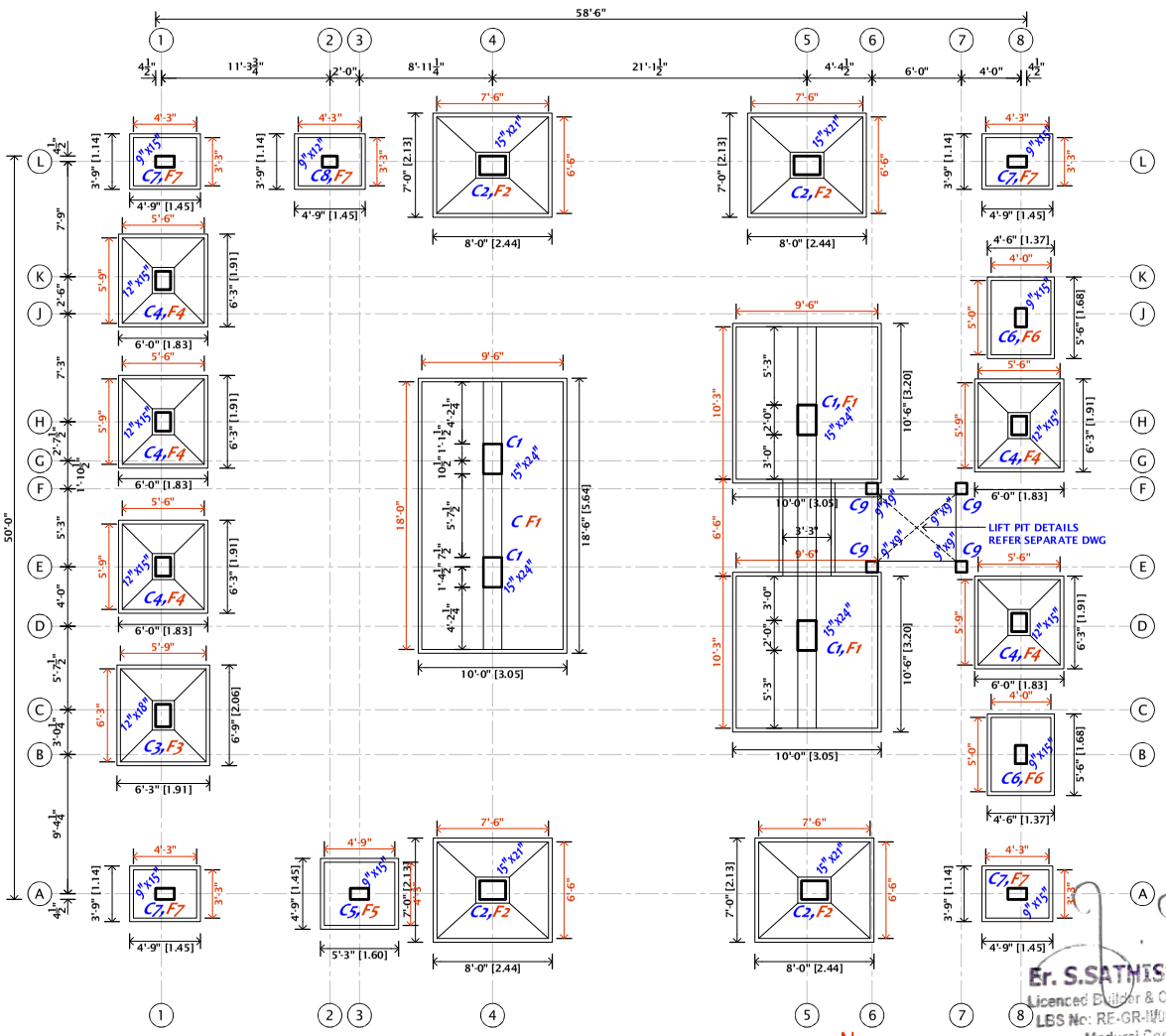
**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

Sheet Title

**CENTER LINE MARKING**
*(Structural Drawing)*

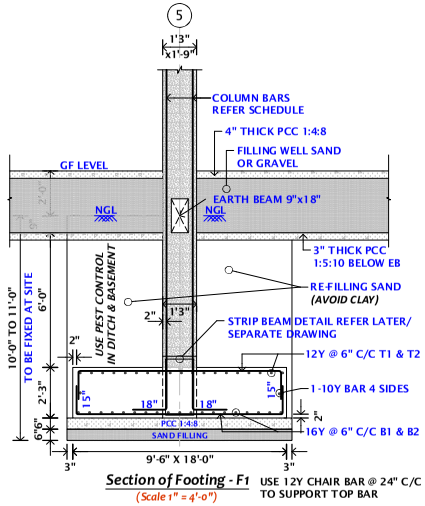

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| Scale @ A2 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=6' | MKS Consultant | 10-Apr-26 | PSD201 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |




## LAYOUT OF EARTH WORK EXCAVATION

(Scale 1" = 6'0")




Section of Footing - F1 (Scale 1" = 4'-0")

USE 12Y CHAIR BAR @ 24" C/C TO SUPPORT TOP BAR

## General Notes:

1. ALL DIMENSIONS ARE IN FEET-INCHES [METER]
2. SBC OF SOIL AS PER SOIL TEST REPORT IS 201 kN/M²
3. FOUNDATION DESIGNED FOR STILT + 4 UPPER FLOOR ONLY
4. CONCRETE GRADE SHALL BE FOR COLUMNS M25 (1:1:2) & OTHER ELEMENTS M20 (1:1½:3) CONFIRMING TO IS 456 : 2000
4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHOULD BE Fe500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT FOOTING = 2", COLUMN = 1.5", BEAM = 1", SLAB = 3/4"
6. HOOK 90 DEG TOP BARS OF EARTH / PLINTH BEAM
7. CONCRETE SHOULD BE VIBRATED
8. LAP LENGTH SHALL BE AS PER (SP: 34-1 999) TABLE BELOW DEVELOPMENT LENGTH FOR COLUMN BARS - 40d, FOR BEAMS - 50D
9. LAPS IN BEAMS & SLAB SHALL BE PROVIDED AT THE POINT OF CONTRA FLEXURE
10. DON'T USE SALT CONTENT WATER IN CONCRETE
11. USE PEST CONTROL TERMINATOR IN FOUNDATION DITCH BEFORE TO RE-FILLING & ALSO USE IN BASEMENT FILLING
12. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT DONE FOR VARIOUS MEMBERS (via) BEAMS, SLABS, COLUMN, FOOTING, ETC. AND SHOULD BE CHECKED AS PER STRUCTURAL LATEST REVISION DRAWINGS BY QUALIFIED SITE CIVIL ENGINEER TO AVOID ANY MISTAKE AT SITE IN FABRICATION OF REINFORCEMENT BAR *(IF SITE VISIT NOT MADE BY US WE ARE NOT RESPONSIBLE FOR THE STRUCTURE)*
13. BEFORE TO FIX THE BUILDING SETTING OUT POINT, CHECK ROAD WIDTH AS PER FMB & ALL OTHER SIDE DIMENSIONS AS PER DOCUMENTS
14. THE BUILDING CONTRACTOR IS FULL RESPONSIBLE FOR FIXING THE BUILDING SETTING OUT POINT & BUILDING SUPERVISION

## Legend 2

- 9" x 15" Column Size
- 9" x 15" Column Size
- C1 to C9 Column Mark
- F1 to F7 Footing Mark
- C4,F4 Column & Footing Mark
- Dimensions for Excavation Size *(Located near Footing)*
- 4'-0" [1.22]
- 3'-6"
- Dimensions for Footing Size *(Located near Footing)*

## Legend 1

SD 2 02

- DRAWING SHEET SERIES
- PRINTABLE SHEET SIZE (A2)
- STRUCTURAL DRAWING


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| Rev | Drawn | Date | Particulars / Description | Chkd | Apvd |
|---|---|---|---|---|---|
| A | Cnu | 12/Apr/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title

**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

Sheet Title

**EARTH WORK EXCAVATION (Structural Drawing)**


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| Scale @ A2 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=6' | MKS Consultant | 10-Apr-26 | PSD202 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |

# COLUMN SCHEDULE

| MARK | GRID LOCATION | REQ. Nos | GROUND FLOOR | | | FIRST FLOOR | | | SECOND FLOOR | | | THIRD FLOOR | | | FOURTH FLOOR | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE (CONCRETE MIX) | VERTICAL | TIES & LINKS | SIZE (CONCRETE MIX) | VERTICAL | TIES & LINKS | SIZE (CONCRETE MIX) | VERTICAL | TIES & LINKS | SIZE (CONCRETE MIX) | VERTICAL | TIES & LINKS | SIZE (CONCRETE MIX) | VERTICAL | TIES & LINKS |
| C1 | D-5, E-4, G-4, H-5 | 4 | 15"x24" (M25) | 4-25Y + 4-25Y + 2-20Y | 8Y @ 6" C/C | 12"x24" (M25) | 4-25Y + 4-20Y + 2-16Y | 8Y @ 6" C/C | 9"x24" (M25) | 4-20Y + 4-20Y | 8Y @ 6" C/C | 9"x18" (M25) | 4-16Y + 4-16Y | 8Y @ 6" C/C | 9"x18" (M25) | 4-16Y + 4-12Y | 8Y @ 6" C/C |
| C2 | A-4, A-5, L-4, L-5 | 4 | 15"x21" (M25) | 4-25Y + 4-16Y + 2-16Y | 8Y @ 6" C/C | 12"x18" (M25) | 4-20Y + 4-16Y + 2-16Y | 8Y @ 6" C/C | 12"x18" (M25) | 4-20Y + 4-16Y + 2-16Y | 8Y @ 6" C/C | 9"x18" (M25) | 4-16Y + 4-12Y | 8Y @ 6" C/C | 9"x18" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C |
| C3 | C-1 | 1 | 12"x18" (M25) | 4-20Y + 4-16Y + 2-16Y | 8Y @ 6" C/C | 9"x18" (M25) | 4-16Y + 4-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C |
| C4 | D-8, E-1, H-1, H-8, K-1 | 5 | 12"x15" (M25) | 4-20Y + 2-16Y + 2-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-20Y + 2-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-20Y + 2-16Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C |
| C5 | A-3 | 1 | 9"x15" (M25) | 4-20Y + 2-16Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-16Y + 2-16Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-12Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-12Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-12Y + 2-12Y | 8Y @ 6" C/C |
| C6 | B-8, J-8 | 2 | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-12Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-12Y + 2-12Y | 8Y @ 6" C/C |
| C7 | A-1, A-8, L-1, L-8 | 4 | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x15" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C |
| C8 | L-2 | 1 | 9"x12" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 4-16Y + 2-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C | 9"x12" (M25) | 6-12Y | 8Y @ 6" C/C |
| C9 | E-6, E-7, F-6, F-7 | 4 | 9"x9" (M25) | 4-16Y | 8Y @ 6" C/C | 9"x9" (M25) | 4-16Y | 8Y @ 6" C/C | 9"x9" (M25) | 4-16Y | 8Y @ 6" C/C | 9"x9" (M25) | 4-16Y | 8Y @ 6" C/C | 9"x9" (M25) | 4-16Y | 8Y @ 6" C/C |
| Total | | 26 Nos | | | | | | | | | | | | | | | |

# SCHEDULE OF FOOTINGS

| Ftg Mark | Grid Location | Req. No | Excavation Size ( *b x l* ) குழி அளவு | Footing Size | | | | Reinforcement | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Breadth (B) x Length (L) புட்டிங் அளவு | Mat (d1) | Coping (d2) | Over all depth (D) | Bottom Short Way (B1) & Long Way (B2) | Top Short Way (T1) & Long Way (T2) |
| CF1 | E-4, G-4 | 1 | 10'-0"x18'-6" | 9'-6" x 18'-0" | 27" | --- | 2'-3" | 16Y @ 6" C/C B1<br>16Y @ 6" C/C B2 | 12Y @ 6" C/C T1<br>12Y @ 6" C/C T2 |
| F1 | D-5, H-5 | 2 | 10'-0"x10'-9" | 9'-6" x 10'-3" | 27" | --- | 2'-3" | 16Y @ 6" C/C B1<br>16Y @ 6" C/C B2 | 12Y @ 6" C/C T1<br>12Y @ 6" C/C T2 |
| F2 | A-4, A-5, L-4, L-5 | 4 | 7'-0" x 8'-0" | 6'-6" x 7'-6" | 24" | --- | 2'-0" | 12Y @ 6" C/C B1<br>12Y @ 6" C/C B2 | 10Y @ 6" C/C T1<br>10Y @ 6" C/C T2 |
| F3 | C-1 | 1 | 6'-3" x 6'-9" | 5'-9" x 6'-3" | 18" | --- | 1'-6" | 12Y @ 6" C/C B1<br>12Y @ 6" C/C B2 | --- |
| F4 | D-8, E-1, H-1, H-8, K-1 | 5 | 6'-0" x 6'-3" | 5'-6" x 5'-9" | 18" | --- | 1'-6" | 12Y @ 6" C/C B1<br>12Y @ 6" C/C B2 | --- |
| F5 | A-3 | 1 | 4'-9" x 5'-3" | 4'-3" x 4'-9" | 15" | --- | 1'-3" | 10Y @ 6" C/C B1<br>10Y @ 6" C/C B2 | --- |
| F6 | B-8, J-8 | 2 | 4'-6" x 5'-6" | 4'-0" x 5'-0" | 15" | --- | 1'-3" | 10Y @ 6" C/C B1<br>10Y @ 6" C/C B2 | --- |
| F7 | A-1, A-8, L-1, L-2, L-8 | 5 | 3'-9" x 4'-9" | 3'-3" x 4'-3" | 12" | --- | 1'-0" | 10Y @ 6" C/C B1<br>10Y @ 6" C/C B2 | --- |
| Total | | 21 Nos | | | | | | | |

## Notes :

1. FOR STAIR HEAD ROOM COLUMN & LIFT MACHINE ROOM COLUMN DETAILS FOLLOW BELOW LEVEL COLUMN SIZE & REINFORCEMENT DETAILS


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| Rev | Drawn | Date | Particulars / Description | Chkd. | Aprd. |
|---|---|---|---|---|---|
| A | Cnu | 12/Apr/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title
**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

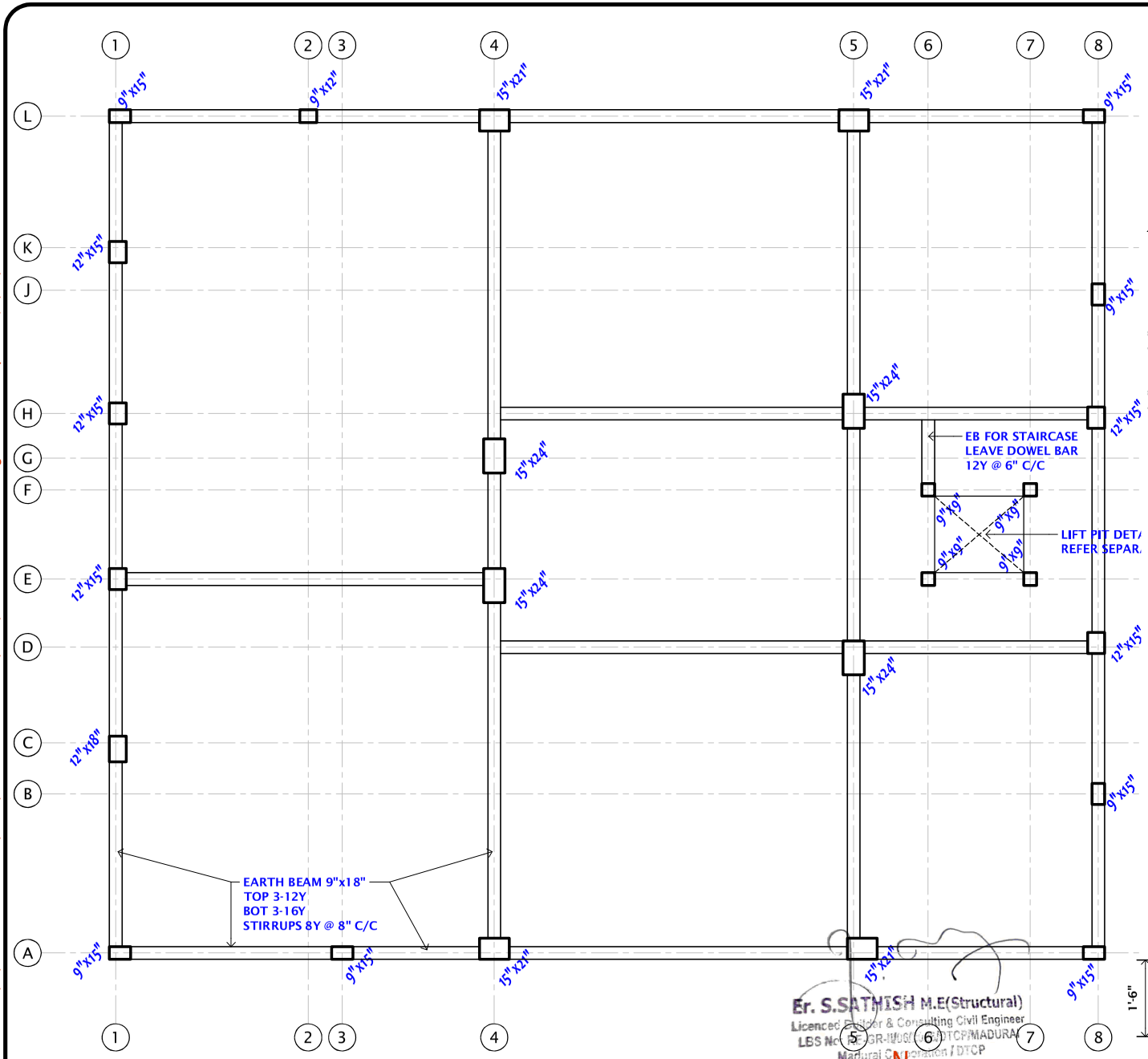
Sheet Title
**COLUMN & FOOTING SCHEDULE**
*Structural Drawing*


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Madurai Civil Engineers — Engineers make the World

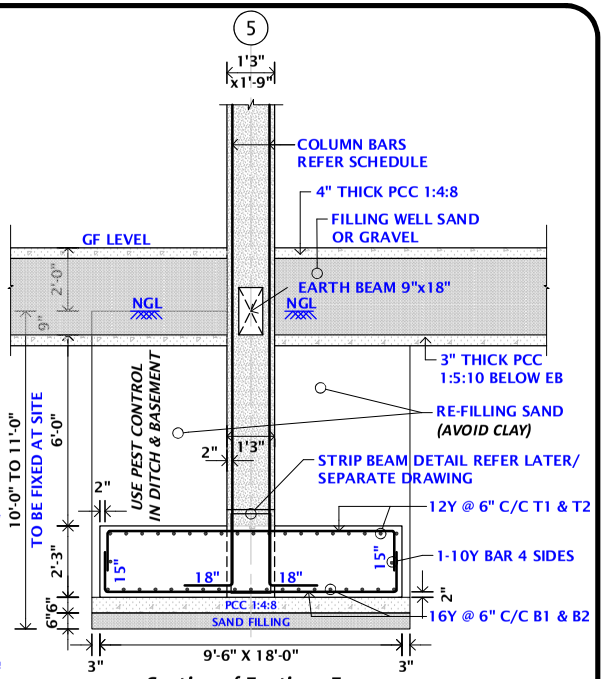
| Scale @ A3 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=2' | MKS Consultant | 10-Apr-26 | PSD303 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |


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## LAYOUT OF EARTH / TIE BEAM

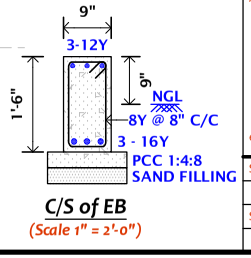
*(Scale 1" = 6'o")*




### Section of Footing - F1

*(Scale 1" = 4'-0")*

USE 12Y CHAIR BAR @ 24" C/C
TO SUPPORT TOP BAR




### C/S of EB

*(Scale 1" = 2'-0")*

| Rev | Drawn | Date | Particulars / Description | Chkd. | Aprd. |
|---|---|---|---|---|---|
| A | Cnu | 12/Apr/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title

**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

Sheet Title

**LAYOUT OF EARTH BEAM**

***(Structural Drawing)***

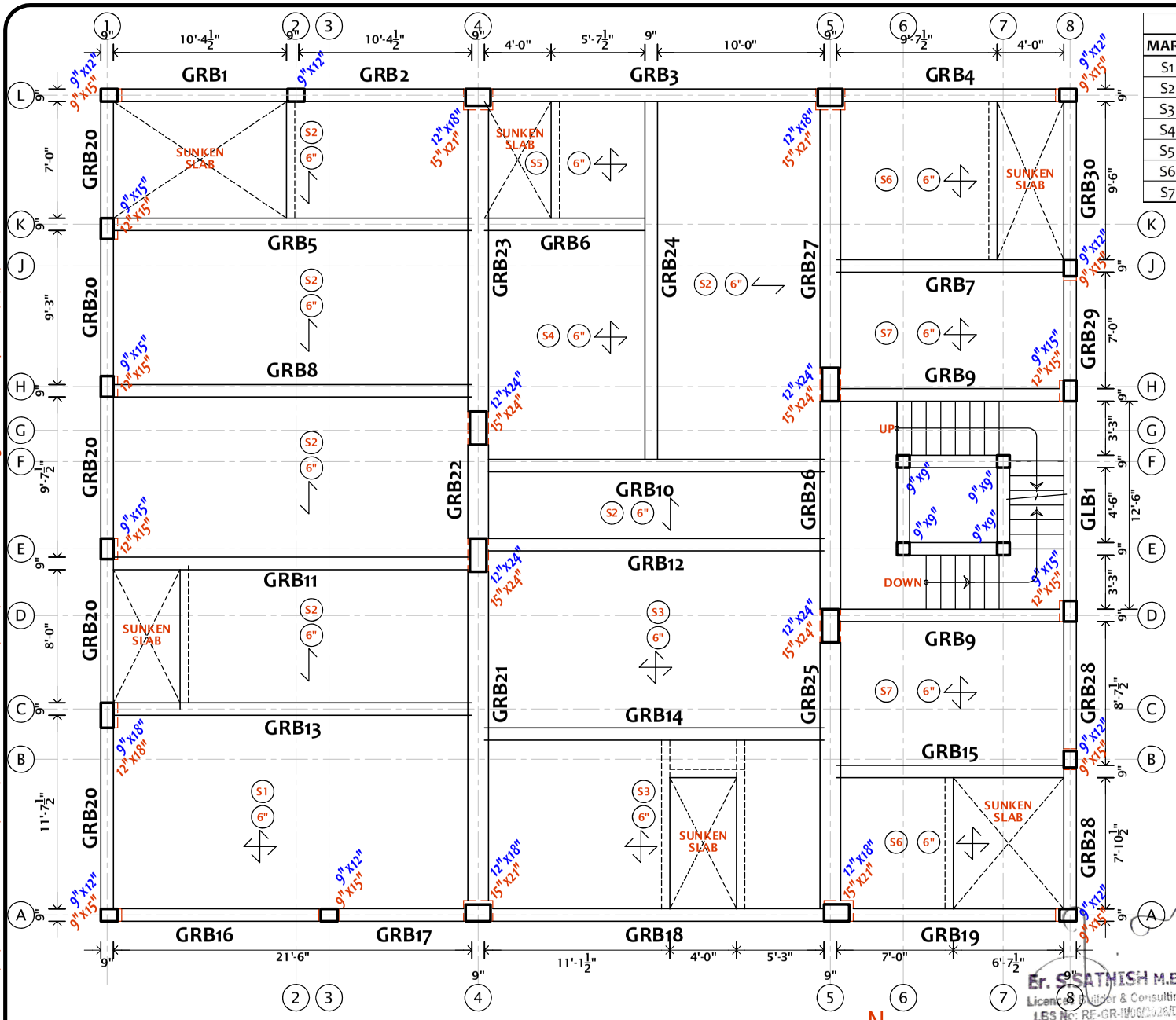

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| Scale @ A3 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=6', 1"=4' | MKS Consultant | 10-Apr-26 | PSD304 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |


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D:\MKS Consultant\Er\M.S.K.Seenivaashan\2026\586_Mr B Kumaresan\DWG\586_SD_10-04-26_A.dwg_PSD304_12-Apr-26_A, 4/12/2026 10:51 PM

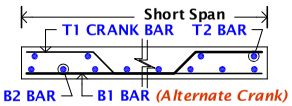



## LAYOUT OF STILT FLOOR ROOF SLAB & BEAM

*(Scale 1" = 6'0")*

N

| SLAB SCHEDULE | | | | |
|---|---|---|---|---|
| MARK | SPANNING | THICK | SHORTER BAR - B1 | LONGER BAR - B2 |
| S1 | TWO WAY | 6" | 10Y @ 6" C/C B1 | 10Y @ 8" C/C B2 |
| S2 | ONE WAY | 6" | 10Y @ 6" C/C B1 | 8Y @ 6" C/C B2 |
| S3 | TWO WAY | 6" | 12Y @ 6" C/C B1 | 10Y @ 7" C/C B2 |
| S4 | TWO WAY | 6" | 10Y @ 6" C/C B1 | 10Y @ 7" C/C B2 |
| S5 | TWO WAY | 6" | 10Y @ 6" C/C B1 | 10Y @ 6" C/C B2 |
| S6 | TWO WAY | 6" | 12Y @ 6" C/C B1 | 10Y @ 6" C/C B2 |
| S7 | TWO WAY | 6" | 10Y @ 6" C/C B1 | 10Y @ 7" C/C B2 |




## TYPICAL SLAB BARS

(Scale 1" = 2')

### Legend

- GLB1 → G.F Landing Level Beam
- GRB1 to GRB30 → G.F / STILT Roof Beam
- GCB1, 2 → G.F Roof Concealed Beam
- Above Slab Level Column Size
- Below Slab Level Column Size (12" x24" / 15" x24")
- S1 Slab Mark
- 6" RC Slab Concrete Thickness
- Two Way Slab - Spanning in Both Direction
- One Way Slab - Spanning in One Direction

| Rev | Drawn | Date | Particulars / Description | Chkd. | Aprd. |
|---|---|---|---|---|---|
| A | Cnu | 12/Apr/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title

**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

Sheet Title

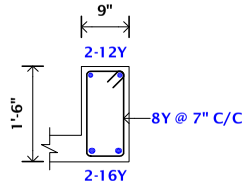
**LAYOUT OF STILT FLOOR ROOF** *(Structural Drawing)*


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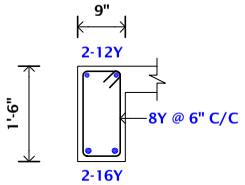
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| Scale @ A3 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=6', 1"=4' | MKS Consultant | 10-Apr-26 | PSD305 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |

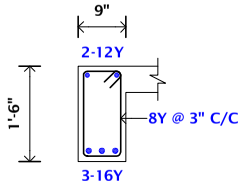
D:\MKS Consultant\Er\M.S.K.Seenivaashan\2026\586_Mr B Kumaresan\DWG\586_SD_10-04-26_A.dwg, PSD305_12-Apr-26_A, 4/12/2026 10:52 PM



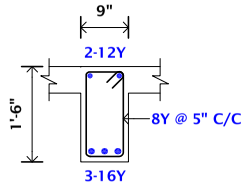

## Detail of GLB - 1
(Scale 1" = 2'-0")



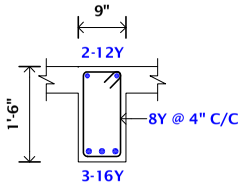

## Detail of GRB - 1, 2,4,6,9,16,17,20,29,30
(Scale 1" = 2'-0")



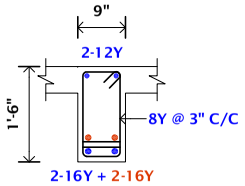

## Detail of GRB - 3, 5,11,24
(Scale 1" = 2'-0")



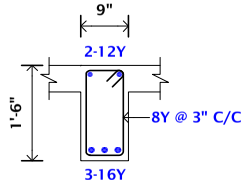

## Detail of GRB - 7
(Scale 1" = 2'-0")



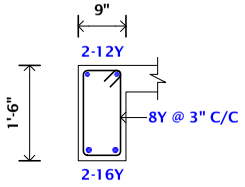

## Detail of GRB - 8
(Scale 1" = 2'-0")



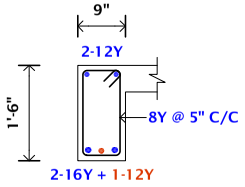

## Detail of GRB - 10
(Scale 1" = 2'-0")



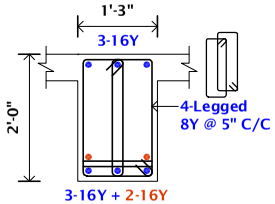

## Detail of GRB - 12, 13, 14, 15
(Scale 1" = 2'-0")



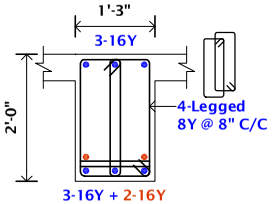

## Detail of GRB - 18
(Scale 1" = 2'-0")




## Detail of GRB - 19,28
(Scale 1" = 2'-0")




## Detail of GRB - 21, 22, 23, 25, 26
(Scale 1" = 2'-0")




## Detail of GRB - 27
(Scale 1" = 2'-0")

## General Notes:

1. ALL DIMENSIONS ARE IN FEET & INCHES
2. CONCRETE GRADE SHALL BE M20 (1:1½:3) CONFIRMING TO IS 456 : 2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHOULD BE Fe500 CONFIRMING TO IS 1786-1985
4. CLEAR COVER FOR REINFORCEMENT FOOTING = 2", COLUMN = 1.5", BEAM = 1", SLAB = 3/4"
5. CONCRETE SHOULD BE VIBRATED
6. LAP LENGTH SHALL BE AS PER (SP: 34-1999) TABLE BELOW
   DEVELOPMENT LENGTH FOR COLUMN BARS - 45d, FOR BEAMS - 56D
7. LAPS IN BEAMS & SLAB SHALL BE PROVIDED AT THE POINT OF CONTRA FLEXURE
8. DON'T USE SALT CONTENT WATER IN CONCRETE
9. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT DONE FOR VARIOUS MEMBERS (via) BEAMS, SLABS, COLUMN, FOOTING, ETC. AND SHOULD BE CHECKED AS PER STRUCTURAL LATEST REVISION DRAWINGS BY OUR QUALIFIED CIVIL ENGINEER TO AVOID ANY MISTAKE AT SITE IN FABRICATION OF REINFORCEMENT BAR *(IF SITE VISIT NOT MADE BY US WE ARE NOT RESPONSIBLE FOR THE STRUCTURE)*
10. *GROUND FLOOR ROOF SLAB EAST TO WEST & NORTH TO SOUTH DIRECTIONAL REINFORCEMENTS REFER LATER DWG.*
11. LAYOUT OF STILT FLOOR ROOF SLAB & BEAM REFER DWG. PSD305
12. *GROUND FLOOR ROOF BEAM REINFORCEMENTS DETAILS OF L/S & C/S REFER LATER DWG.*
13. PROVIDE SLAB TOP DISTRIBUTOR (T2) 8Y @ 9" C/C. HERE NOT SHOWN FOR CLARITY

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| Rev | Drawn | Date | Particulars / Description | Chkd. | Aprd. |
|---|---|---|---|---|---|
| A | Cnu | 12/Apr/26 | PRELIMINARY FOR ESTIMATION | MKS | |

Project Title
**Proposed Residence for Mr. B.KUMARESAN, Duraisamy Nagar, Madurai**

Sheet Title
**REINFORCEMENT DETAILS OF STILT ROOF BEAMS**


Architectural & Structural Consultant
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| Scale @ A3 | Drawn | Date | Drawing No. |
|---|---|---|---|
| 1"=2' | MKS Consultant | 10-Apr-26 | PSD306 |
| Status | | Project Number | Revision |
| PRELIMINARY | | 2026-01-586 | A |

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