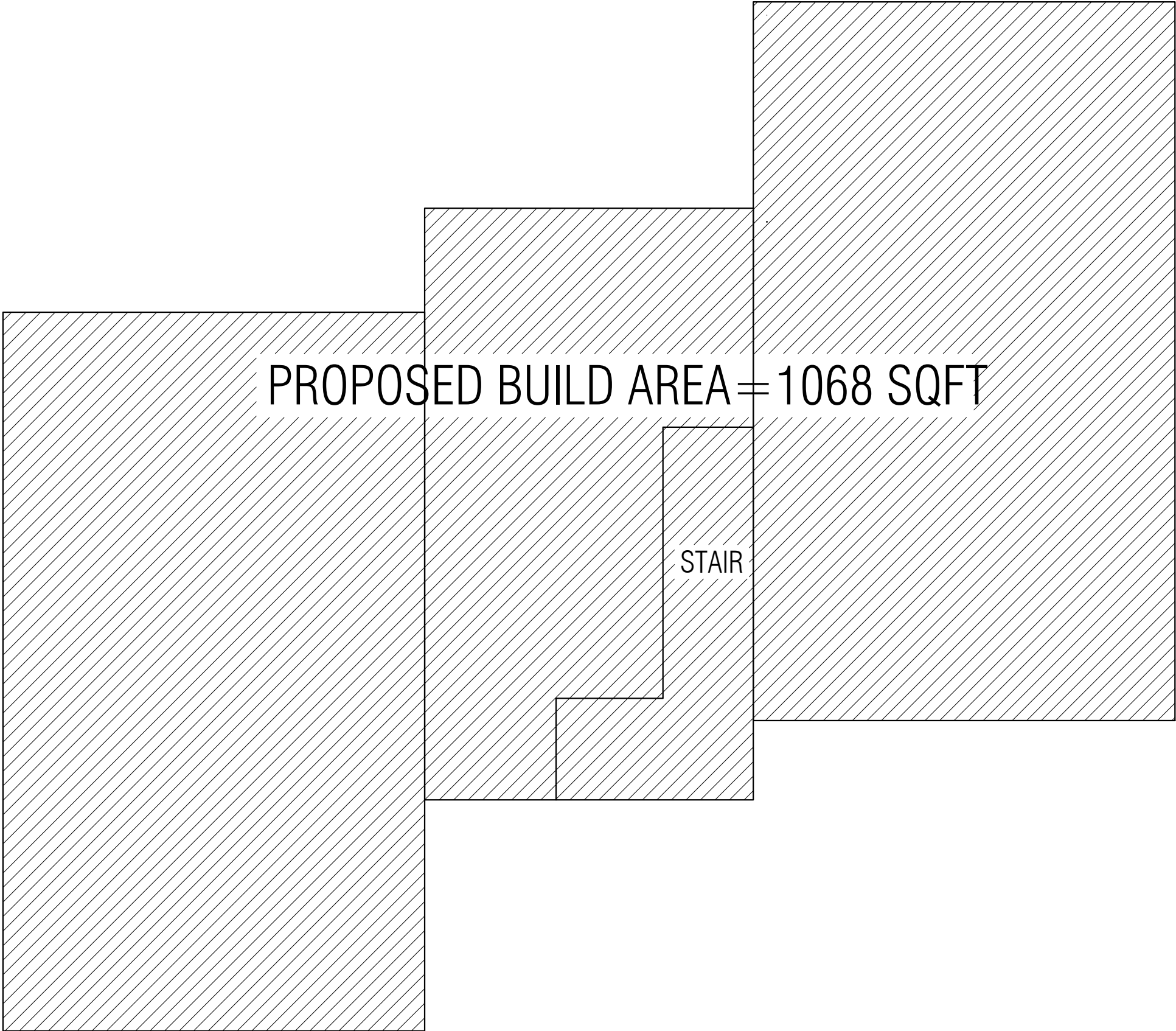


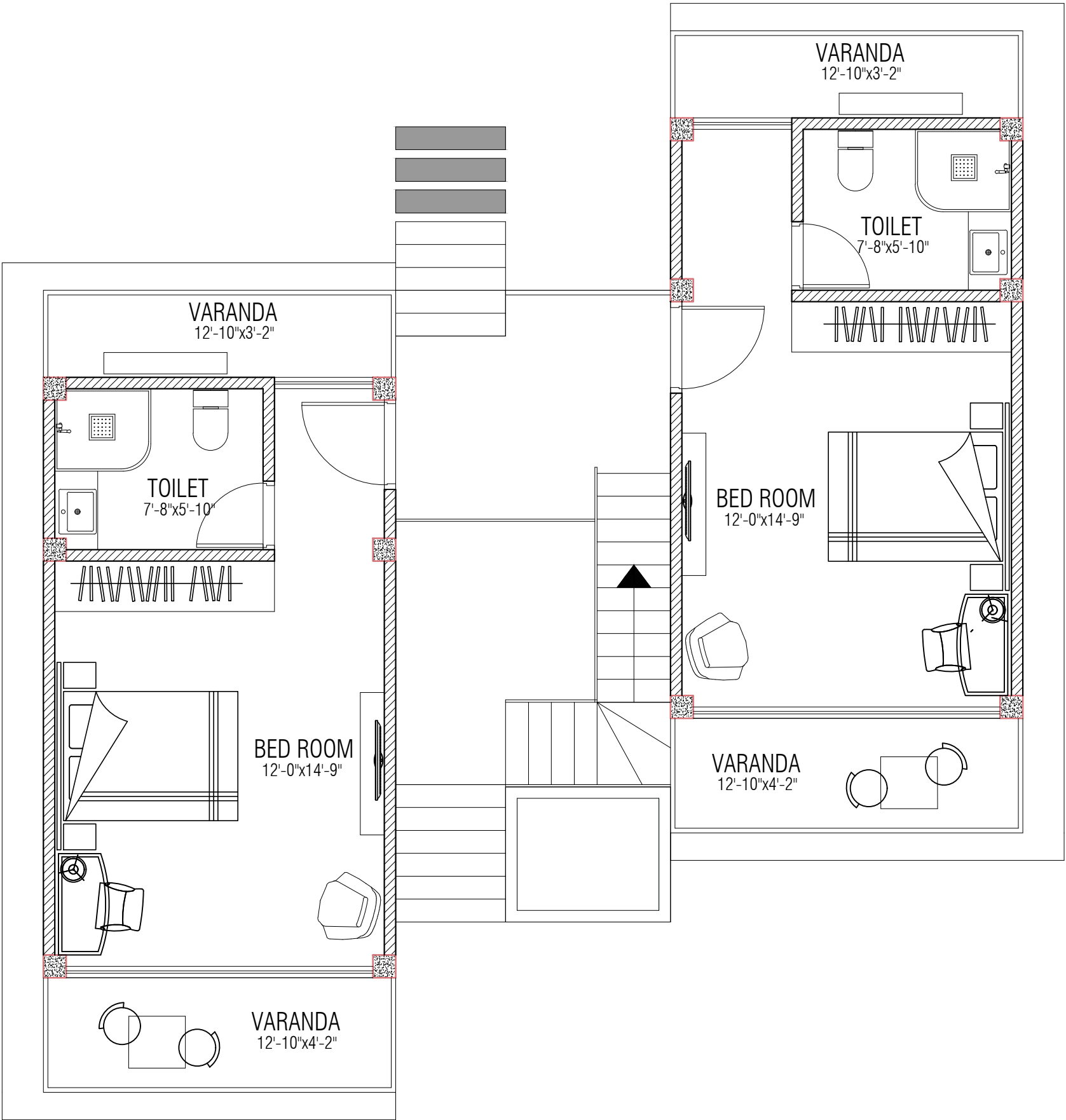
# BEACH PARADISE HOTEL & RESTAURANT

## (COTTAGE ARCHITECTURAL DRAWING)



COTTAGE LAYOUT PLAN

|   |
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| DRAWING TITLE :<br>ARCHITECTURAL DRAWING  |
| DRAWING BY :<br><br>Saif Uddin Hiron<br>Architect (DUET)<br><br>Kaniz Sufia Shimul<br>Jr.Architect  |
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| ENGINEER :      SIGNATURE :<br><br>Md. Solaiman<br>Civil Engineer<br><br>Anik Paul<br>Civil Engineer  |
| DRAWING NO :<br>2-STORIED COTTAGE BUILDING.   |
| SHEET NO :  |
| SCALE :    NTS  |
| DATE :    JAN ,2025   |



COTTAGE FURNITURE LAYOUT PLAN

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INANI,COX'S BAZAR .

CLIENT :  
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DRAWING TITLE :  
ARCHITECTURAL DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
Architect (DUET)  
  
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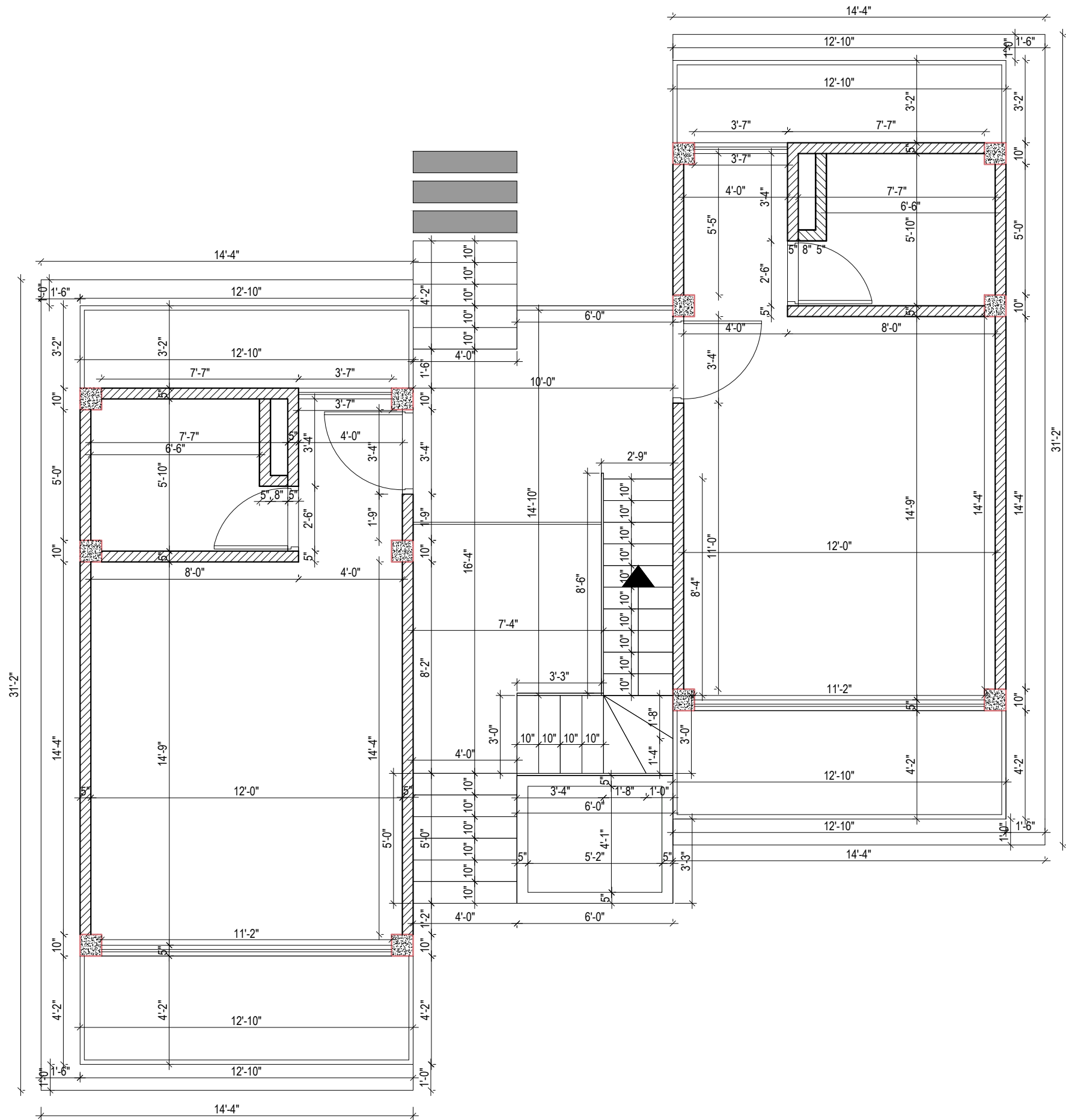
|                                |             |
|--------------------------------|-------------|
| ENGINEER :                     | SIGNATURE : |
| Md. Solaiman<br>Civil Engineer |             |
| Anik Paul<br>Civil Engineer    |             |

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GROUND FLOOR COTTAGE WORKING DRAWING

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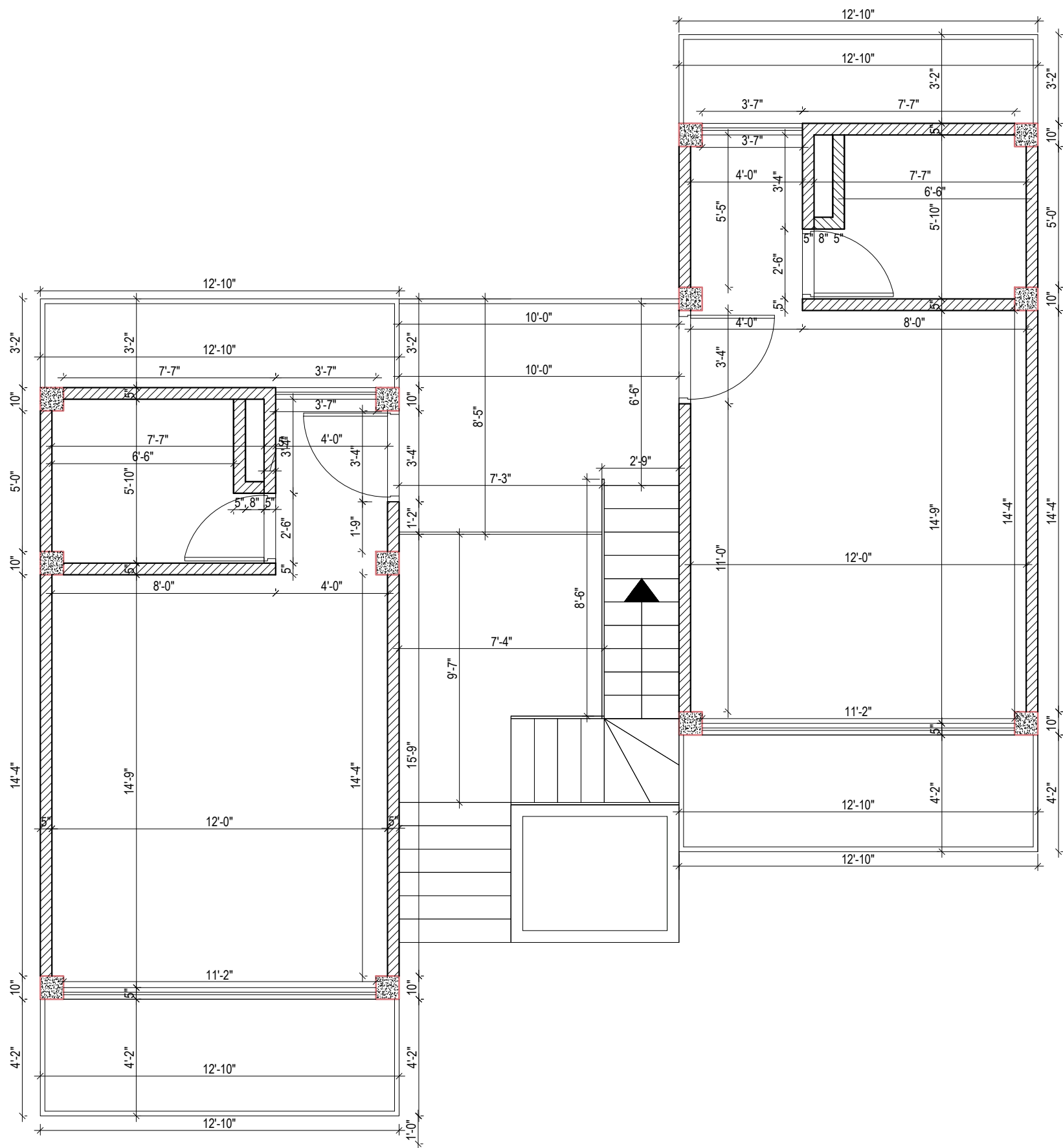
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Civil Engineer  
  
Anik Paul  
Civil Engineer

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1ST FLOOR COTTAGE WORKING DRAWING

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# BEACH PARADISE HOTEL & RESTAURANT

## (COTTAGE STRUCTURAL DRAWING)

1. GENERAL :

- a) Follow BNBC/93 for specifications/structural requirements not mentioned in the drawings or in this note sheet.
- b) Any details not shown in the drawing should be done according to ACI Detailing manual-2005.
- c) Basic wind speed=130km/hr
- d) Seismic zone-2.
- e) Other loads as per BNBC 1993.

2. FOUNDATION :

- a) The building has been designed for a 2- storied MOSJID building
- b) Foundation type - Footing Foundation, based on bearing capacity as per soil report.
- c) Any loose pocket found in foundation bed is to be filled up with compacted sand of f.m. 2.5 min.
- d) Depth of foundation as per drawing.

3. CONCRETE :

- a) TYPE: Concrete compressive strength for all concreting work
  - f'c = minimum 3,500 psi (Foundation,)
  - f'c = minimum 3,500 psi ( Column)
  - f'c = minimum 3,000 psi (Slab, Beam)
- b) MINIMUM CYLINDER STRENGTH : Based on cylinder test of diameter D=4" & height = 8"
  - i) 28 days strength = as specified in 3(a)
  - ii) 7 days strength =65% of the 28 days strength.
- c) CURING OF R.C.C WORK :
  - i) Curing time minimum 28 days .
  - ii) Method of curing :
    - \* Horizontal surface- By ponding of water.
    - \* Other surface-By wrapping moist jute fabric and sprinkling water by hose pipe frequently.

4. CEMENT :

- Ordinary portrand cement type-1 conforming to BDS 232: 1974/ASTM C150.

5. CONCRETE AGGREGATE :

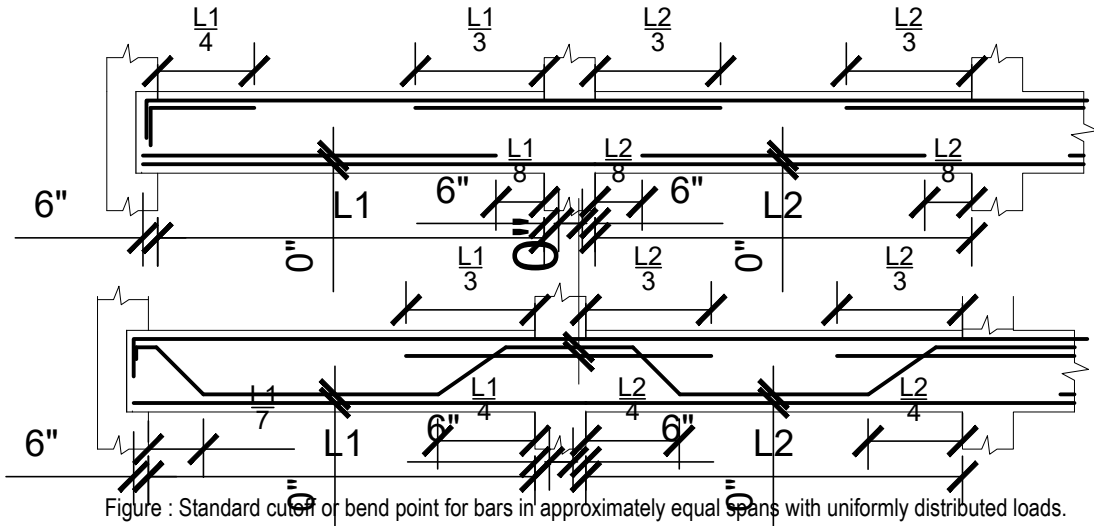
- a) FINE AGGREGATE : Sand of F.M 2.50 (MIN)
- b) COARSE AGGREGATES :
  - i) 3/4 inch down well graded Stone chips to be used as coarse aggregate in Foundation & Column (1:1.5:3),
  - ii) 3/4 inch down well graded Stone chips to be used as coarse aggregate in slab, beam, stair, etc (1:2:3½)

6. WATER :

- Potable water to be used in concrete mix.

7. STEEL REINFORCEMENT :

- a) All reinforcing bars having fy=72,500 psi
- b) The following tests shall be performed for reinforcing bars on randomly collected samples as per ASTM A615M and ASTM A370
  - i) Weight (lb/ft),
  - ii) Tensile strength and
  - iii) Percent elongation



8. LAP LENGTH :

Unless otherwise mentioned in the drawings lap length of bars shall be:

| BAR DIA (mm) | TENSION (INCH) | COMPRESSION (INCH) |
|--------------|----------------|--------------------|
| 10ø          | 15             | 12                 |
| 12ø          | 18             | 15                 |
| 16ø          | 25             | 18                 |
| 20ø          | 30             | 24                 |
| 22ø          | 33             | 25                 |
| 25ø          | 40             | 30                 |

COLUMN LAPS SHALL BE TENSION LAPS

9. HOOKS OF REBAR :

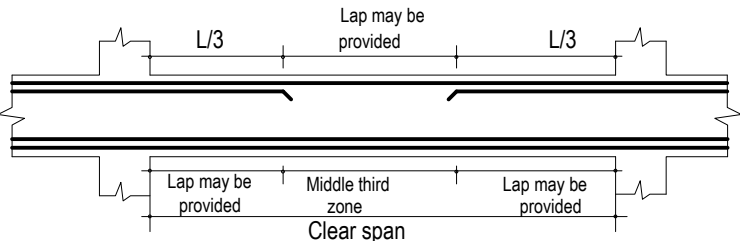
For all re-bar : Provide 90°standard hooks (L-Bent) if not shown in the drawings.

10. SPACER BARS :

To support second layer bars in beams/slab , use 1" spacer bars @ 25" c/c where required.

12. LAP LOCATION :

- a) For beam bottom bar , lap not to be provided at middle third zone of the span (as shown in sketch).
- b) For beam top bar , lap may be provided at middle third zone of the span.
- c) Not more than 50% of the bars shall be spliced at one place.
- d) Lap splices are to be confined by hoops with maximum spacing or pitch of d/4 or 4" where d is the effective depth of the beam.



13. DEVELOPMENT LENGTH :

All beam and slab rebars should be extended into the support up to development length.

14. ADMIXTURE :

Water proofing admixture , plasticiser and jointing admixture may be used if required by design and approved by the consultant

15. WATER STOPPER :

300mm wide pvc water stopper to be used at all construction joints below ground in mat , shear wall , water tank wall E.T.C.

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DRAWING TITLE : STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron Architect (DUET)

Kaniz Sufia Shimul Jr.Architect

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Md. Solaiman Civil Engineer

Anik Paul Civil Engineer

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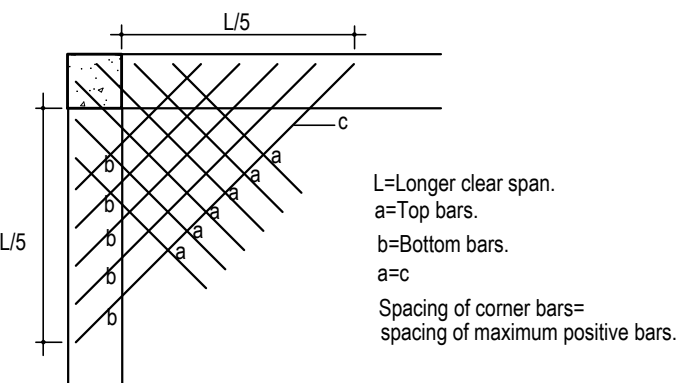
SHEET NO :

SCALE : NTS

DATE : JAN ,2025

STRUCTURAL DESIGN CRITERIA & REQUIREMENT

16. CORNER REINFORCEMENT :  
Corner reinforcement for beam supported 2-way slabs.



17. CONCRETE CLEAR COVER FOR REINFORCING BARS :

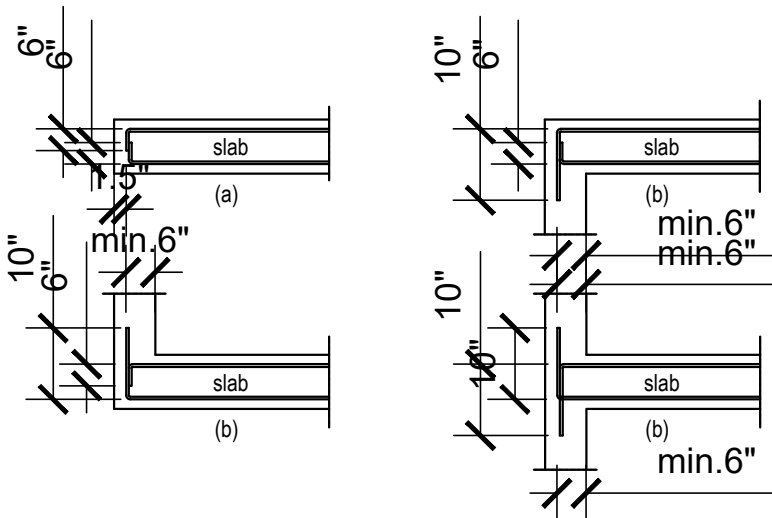
| Member                                   | Location or condition               | Minimum cover (inch) | Figure |
|--|-------------------------------------|----------------------|--------|
| Mat                                      | Side                                | 2.0                  |        |
|  | Bottom                              | 3.0                  |        |
| Column                                   | Above ground level                  | * 1.5                |        |
|  | Below ground level                  | * 2.0                |        |
| Beam                                     | Indoors face : top, side & bottom   | ** 1.5               |        |
|  | Outdoors face : top, side & bottom. | ** 1.5               |        |
| Slab & stair                             | Top and bottom                      | 0.75                 |        |
| Wall (Above 250mm except base ment wall) | Exterior                            | 2.0                  |        |
|  | Interior                            | 0.75                 |        |
| Water tank                               | Water face                          | 2.0                  |        |
|  | Other face                          | 1.0                  |        |

\* From tie  
\*\* From stirrups

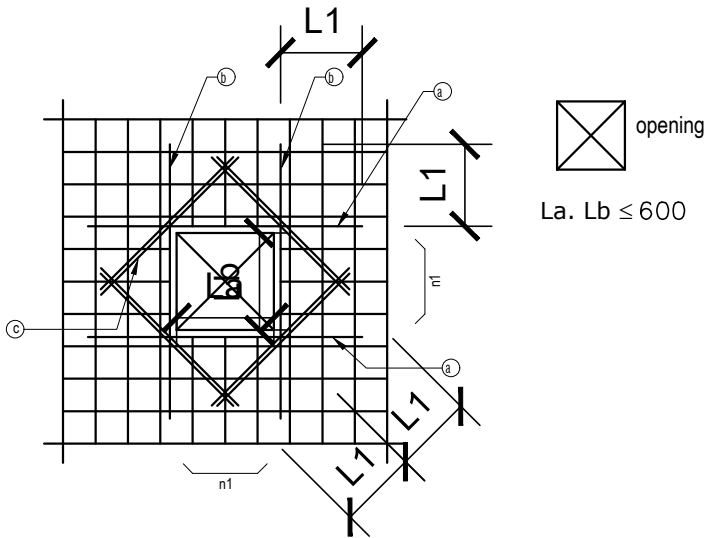
18. MAXIMUM BARS IN BEAMS IN SINGLE LAYER :  
Maximum number of bars as a single layer in beam stem shall be as per ACI detailing manual 1994.

19. MINIMUM BAR SPACING OF COLUMN LONGITUDINAL BARS :  
Clear distance between longitudinal bars shall not be less than 1.5 times bar diameter, 1.5 times the size of course aggregate nor 40mm.

20. SLAB & REINFORCING DETAIL :  
a) Free end of slab incapable of embedding of skd bar in Beam/Wall.  
b) Others,



21. REINFORCEMENT DETAILS FOR SLAB OPENINGS :

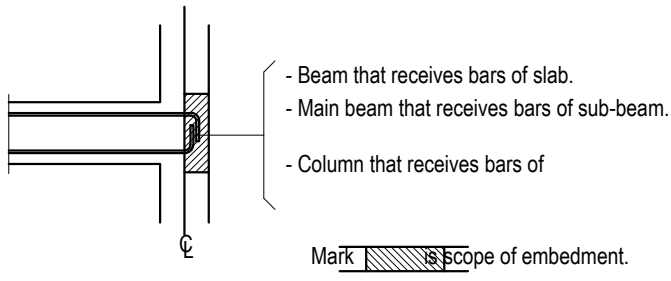


n1,n2 : The number of bars which are cut off for opening.  
a) The number of extra bars > n1/2 (top and bott. bars)  
b) The number of extra bars > n2/2 (top and bott. bars)  
c) The number of extra bars = 2-D12 (top and bott. bars)

22. RECOMMENDED END HOOKS

| Bar Hook       | From end Extention | Bend Angle (Degree) | Bend Redius (r) | Used Bar | Location                             |
|----------------|--------------------|---------------------|-----------------|----------|--------------------------------------|
| Primary reinf. |                    | 180°                | r = 2db         | 6 to 25  | lap splice end of anchorage          |
| Tie/stirrups   |                    | 135°                | r = 1.25db      | 6 to 12  | stirrups fastening bar diagonal hook |
| Primary reinf. |                    | 90°                 | r = 2.5db       | 6 to 32  | bend-up for embedment                |
| Slab           |                    | 45°                 | r = 5db         | 8 to 20  | bend bar in slab                     |

23. SCOPE OF EMBEDMENT



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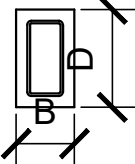

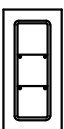
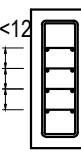
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SIGNATURE :  
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Civil Engineer

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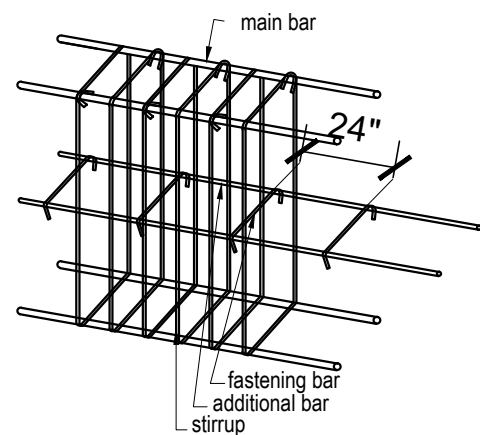
STRUCTURAL DESIGN CRITERIA & REQUIREMENT



24. ADDITIONAL BAR, FASTENING BAR IN BEAM

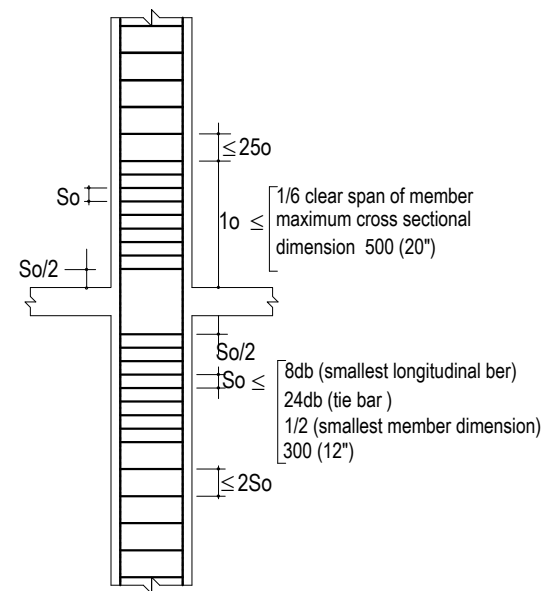
| Depth (D) inch | D < 24  | 24<D<36   | 36<D<48   | D≥48  |
|----------------|---|---|---|---|
| Additional bar | not necessary   | 2-#3  | 4-#4  | n-#4  |
| SECTION        |  |  |  |  |
| Fastening      |   | 3/8" @ 24"  |   |   |

25. END HOOK OF STIRRUPS.

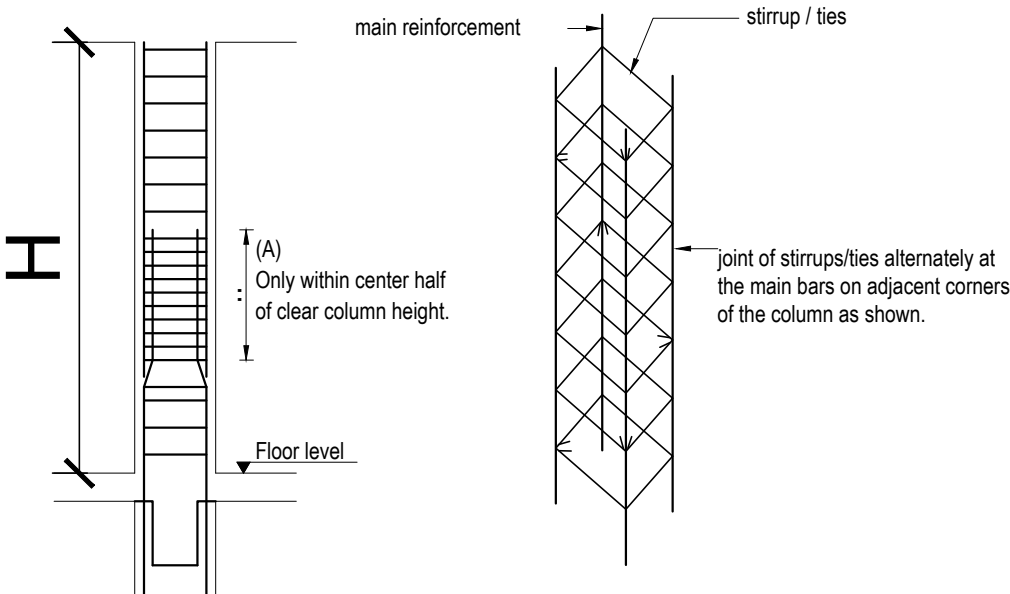
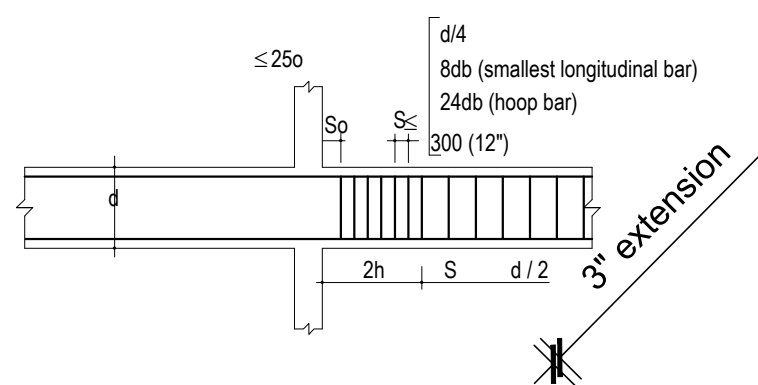


26. COLUMN SPLICE LOCATION :

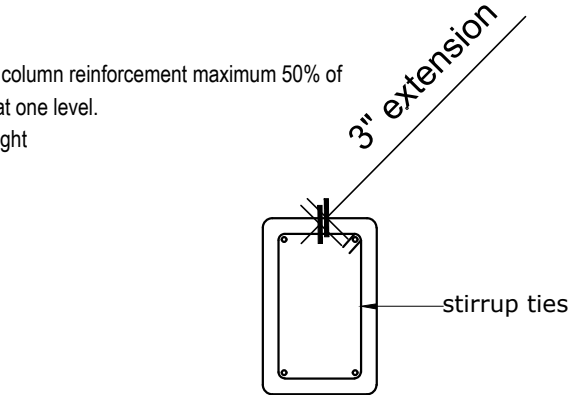
27. CONFINEMENT REQUIREMENTS OF COLUMN AT JOINTS FOR EARTHQUAKE LOADING :



28.CONFINEMENT REQUIREMENTS OF BEAM AT JOINTS FOR EARTHQUAKE LOADING :



(A) is area for splice of column reinforcement maximum 50% of total bar is spliced at one level.  
H = clear column height

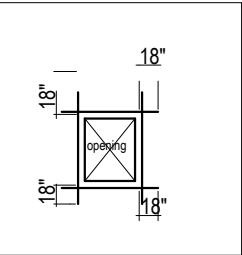


29. BUNDLE BAR splice bar

bars in a bundle must be terminates with at least 40 bar dia stagger except where the bundle terminated.

30. OPENING IN SLABS

Not less than four #5 extra bars (two at top and two at bottom) shall be provided around all openings in slab. The bars shall extend at least 18" beyond the corner of such opening.



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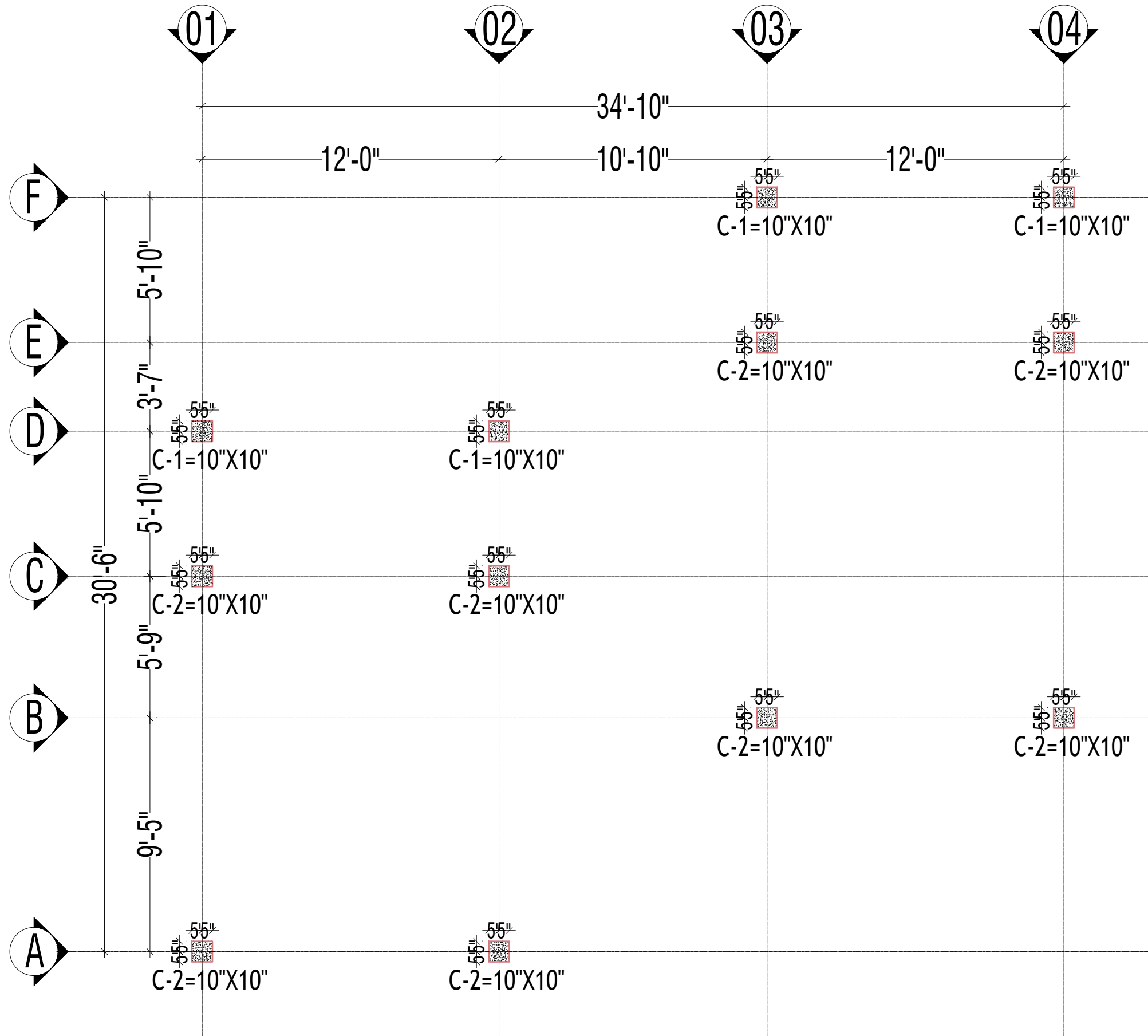
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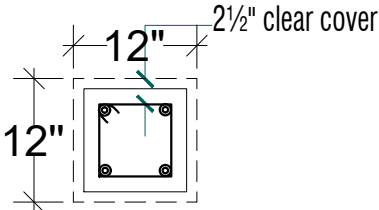
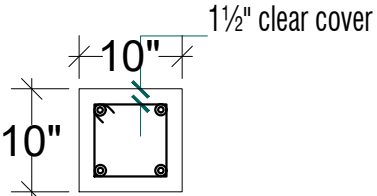
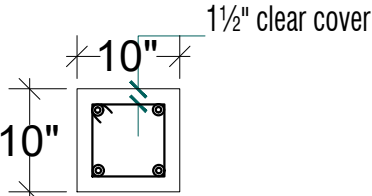
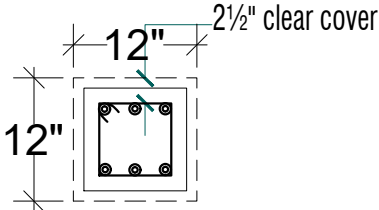
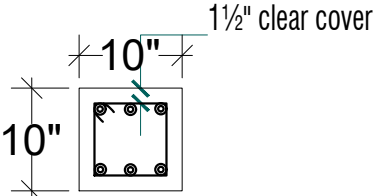
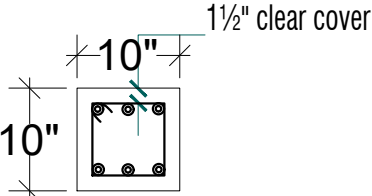


COLUMN LAY OUT

|   |
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COLUMN SCHEDULE

● :- Larger dia bar  
○ :- Smaler dia bar

| COL <sup>m</sup><br>INDEX \<br>COL <sup>m</sup><br>SECTION | Below G.L.  | Ground Floor   | 1st Floor  |
|--|---|--|--|
| C1<br>SIZE=10"x10"   |   |   |   |
| VERTICAL BAR   | 4-Ø 16.   | 4-Ø 16.  | 4-Ø 16.  |
| TIE BAR  | Ø8-@4"/6"/4".c/c  | Ø8-@4"/6"/4".c/c   | Ø8-@4"/6"/4".c/c   |
| C2<br>SIZE=10"x10"   |  |  |  |
| VERTICAL BAR   | 6-Ø 16.   | 6-Ø 16.  | 4-Ø 16.  |
| TIE BAR  | Ø8-@4"/6"/4".c/c  | Ø8-@4"/6"/4".c/c   | Ø8-@4"/6"/4".c/c   |
| fy,(rebar strength)  | 60000 psi   | 60000 psi  | 60000 psi  |
| f'c (28 day's cylinder strength)                           | 3500 psi  | 3500 psi   | 3500 psi   |
| MIX RATIO  | 1 : 1.5: 3  | 1 : 1.5 : 3  | 1 : 1.5 : 3  |
| Coarse Agg.  | CRUSHED STONE   | CRUSHED STONE  | CRUSHED STONE  |
| W / C<br>(by wt)   | 0.42  | 0.42   | 0.42   |

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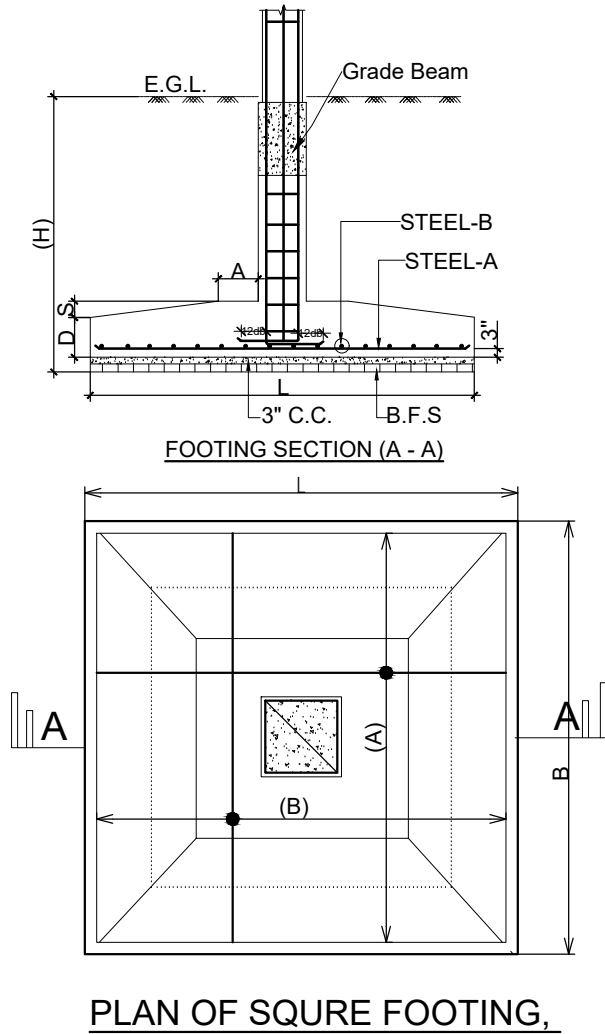
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2-STORIED COTTAGE BUILDING.  
SHEET NO :  
SCALE : NTS  
DATE : JAN ,2025

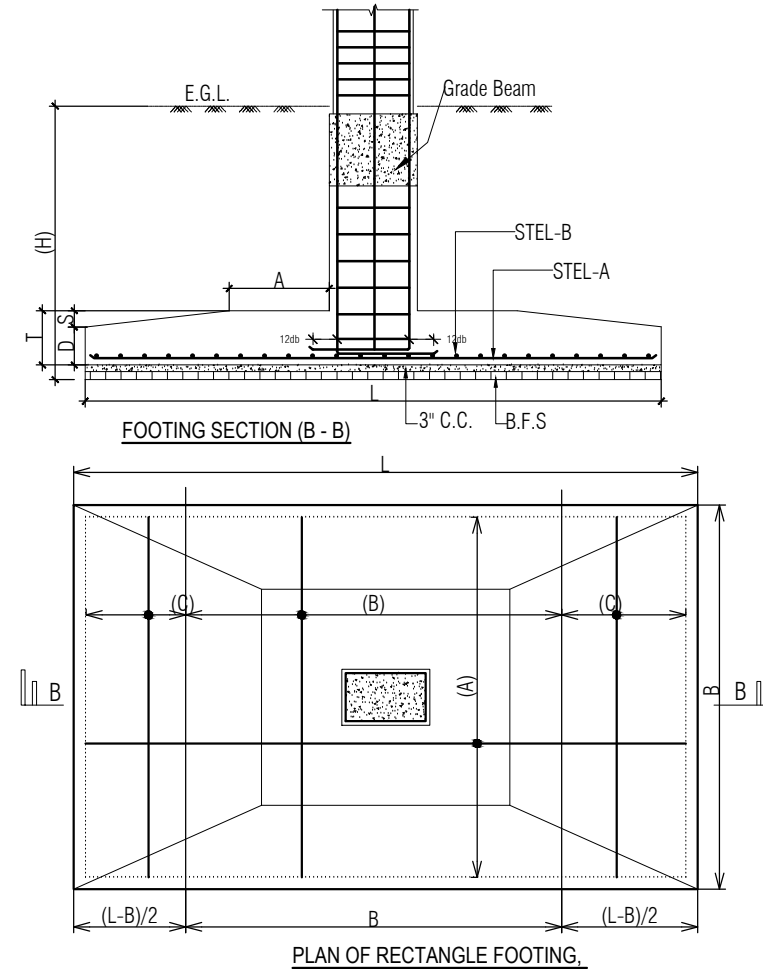




## Note:

- Minimum Clear Cover to rebar = 3"
- $\text{Min}^m f'c = 3500 \text{ psi}$  (28 days cylinder strength)  
use mix ratio = 1:1.5:3.0 and  $w/c = 0.42$ .
- $\text{Min}^m f_y = 60000 \text{ psi}$
- use crushed stone.

N.B. = considered bearing capacity of soil = 3.0ksf



## FOOTING SCHEDULE:-

| FOOTING NO | LENGTH (L) | BREADTH (B) | FOUNDATION DEPTH-(H) | FOOTING THICK-(D) | FOOTING THICK-(S) | DISTANCE (A) | STEEL-(A) | STEEL-(B) | STEEL-(C) | REMARKS |
|------------|------------|-------------|----------------------|-------------------|-------------------|--------------|-----------|-----------|-----------|---------|
| F-01       | 3'-6"      | 3'-6"       | 4'-6"                | 14"               | 4"                | 15"          | 16Ø@6"c/c | 16Ø@6"c/c |           |         |
| F-02       | 4'-0"      | 4'-0"       | 4'-6"                | 14"               | 4"                | 15"          | 16Ø@6"c/c | 16Ø@6"c/c |           |         |
|            |            |             |                      |                   |                   |              |           |           |           |         |

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
Jr. Architect



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Email : kanonarchitects01@gmail.com  
Web : www.kanonarchbd.com

ENGINEER : SIGNATURE :

Md. Solaiman  
Civil Engineer

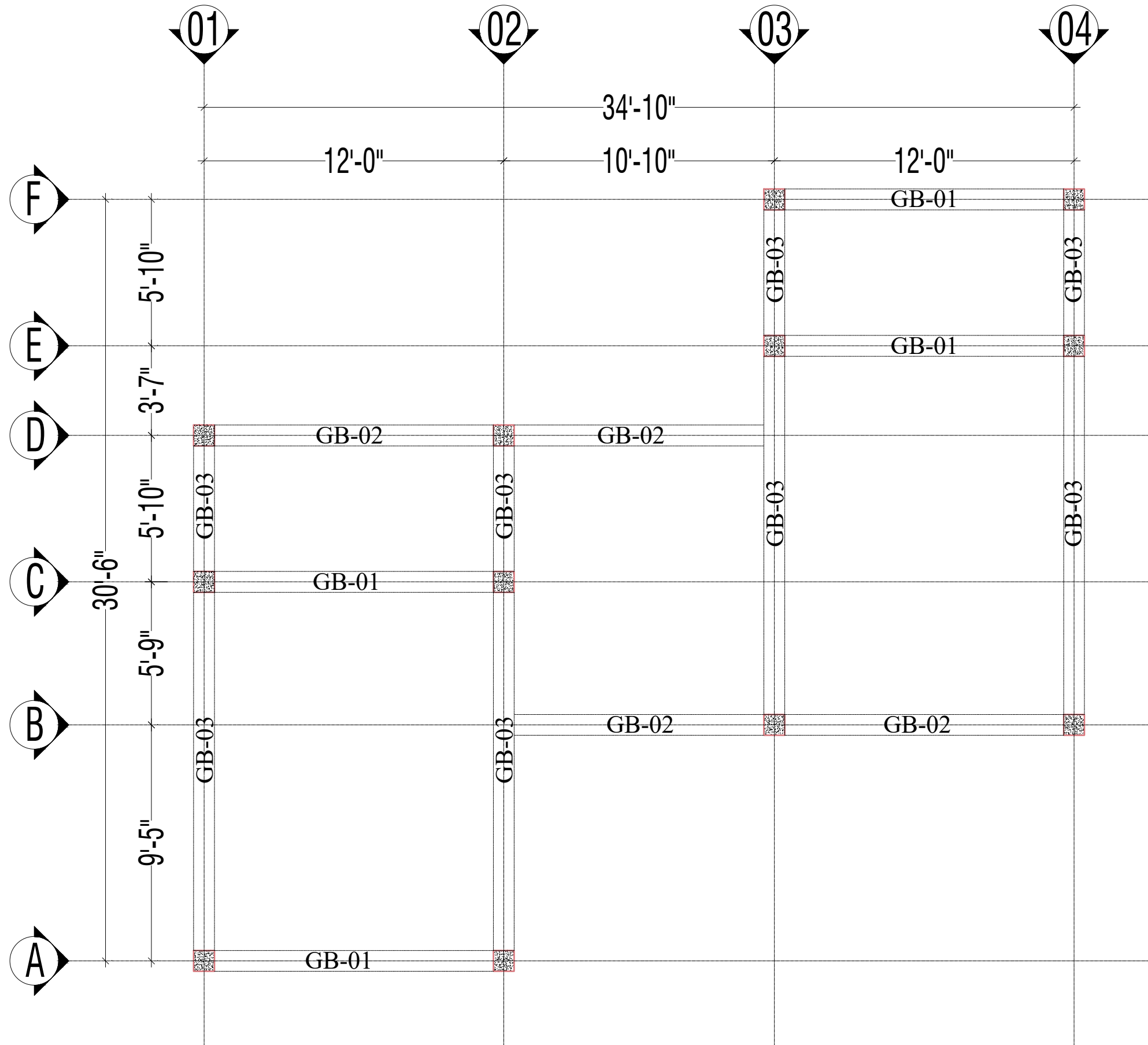
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

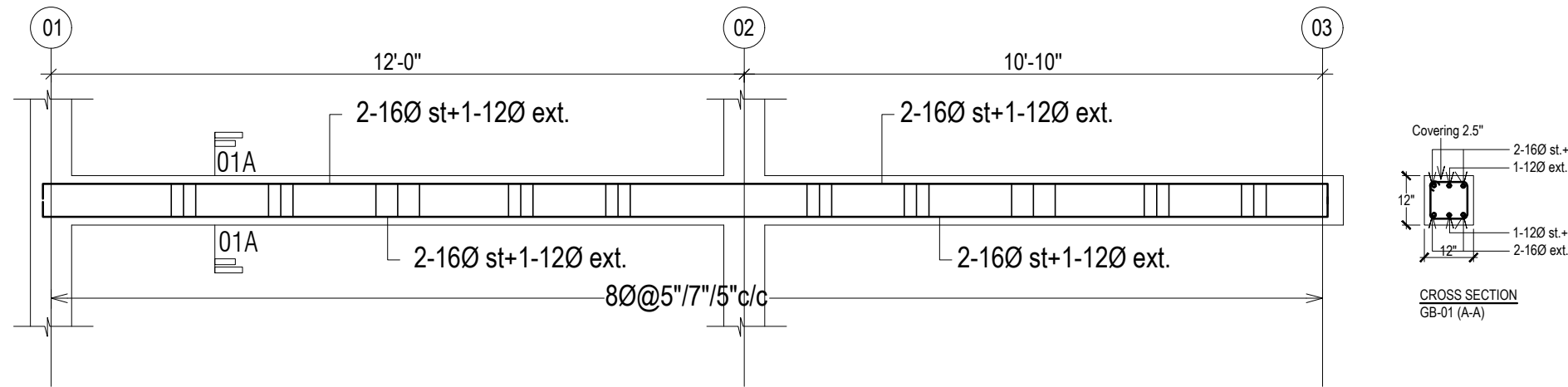
SCALE : NTS

DATE : JAN , 2025

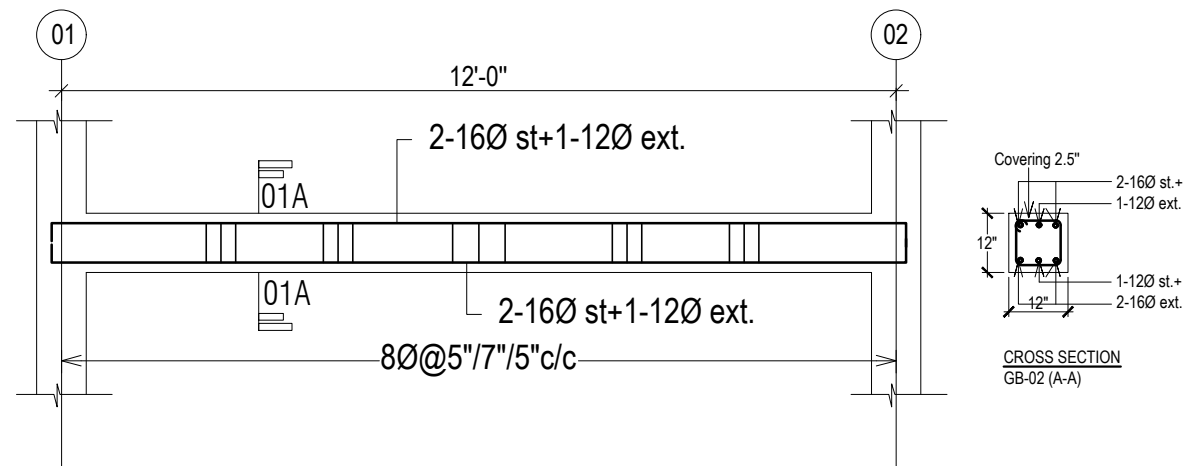


GRADE BEAM LAY OUT

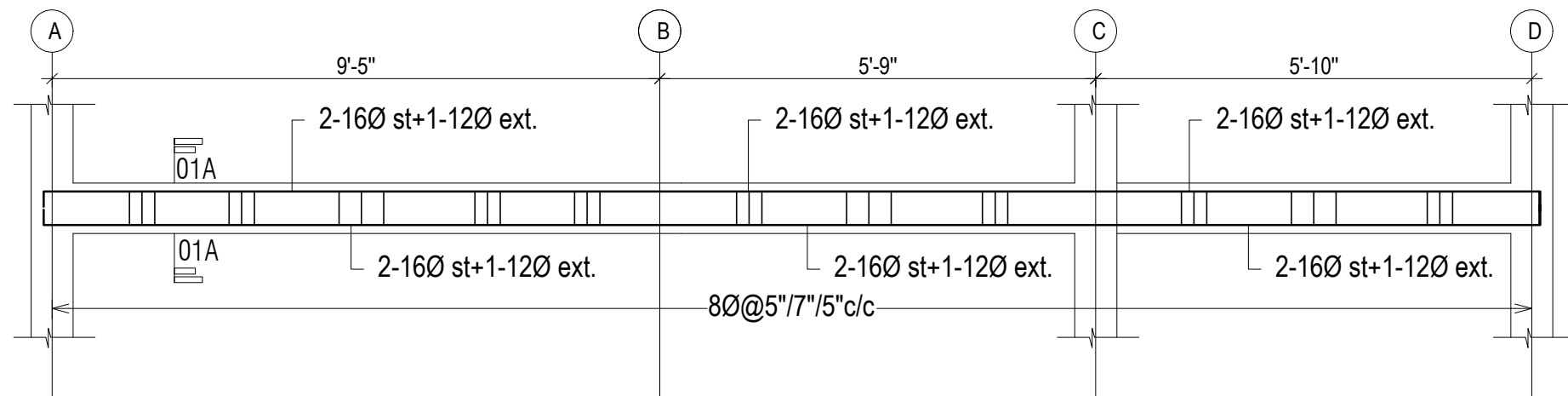
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| PROPOSED 02 STORIED COTTAGE BUILDING<br>INANI,COX'S BAZAR .   |             |
| CLIENT :<br>BEACH PARADISE HOTEL & RESTAURANT   |             |
| DRAWING TITLE :<br>STRUCTURAL DRAWING   |             |
| DRAWING BY :<br><br>Saif Uddin Hiron<br>Architect (DUET)<br><br>Kaniz Sufia Shimul<br>Jr.Architect  |             |
| <div><div></div><div><div>KANON</div><div>ARCHITECTS</div></div></div> <div>ADDRESS : 1ST FLOOR,HOUSE NO-03,<br/>BLOCK-L,ROAD-2/2,BANANI<br/>DHAKA -1213, BANGLADESH.<br/>CELL : +8801811791189.<br/>Email : kanonarchitects01@gmail.com<br/>Web : www.kanonarchbd.com</div> |             |
| ENGINEER :  | SIGNATURE : |
| Md. Solaiman<br>Civil Engineer<br><br>Anik Paul<br>Civil Engineer   |             |
| DRAWING NO :<br>2-STORIED COTTAGE BUILDING.   |             |
| SHEET NO :  |             |
| SCALE   | : NTS       |
| DATE  | : JAN ,2025 |



LONG SECTION OF GB-01  
SIZE:-(12"X12")



LONG SECTION OF GB-02  
SIZE:-(12"X12")



LONG SECTION OF GB-03  
SIZE:-(12"X12")

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

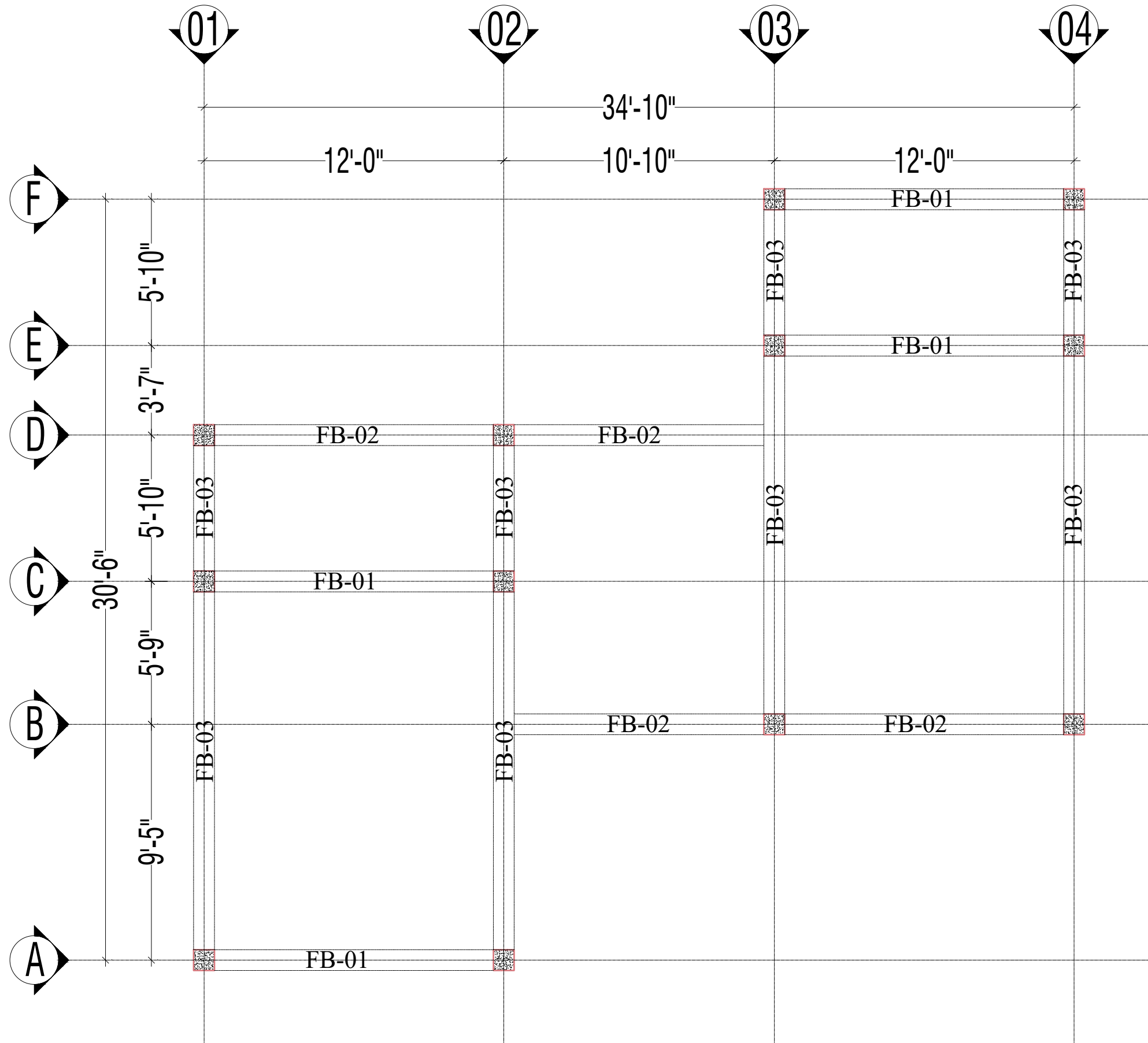
DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
Architect (DUET)  
  
Kaniz Sufia Shimul  
Jr.Architect

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ENGINEER :      SIGNATURE :  
  
Md. Solaiman  
Civil Engineer  
  
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.  
SHEET NO :  
SCALE : NTS  
DATE : JAN ,2025



GROUND FLOOR BEAM LAYOUT

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : STRUCTURAL DRAWING

DRAWING BY :  
Saif Uddin Hiron  
Architect (DUET)  
Kaniz Sufia Shimul  
Jr.Architect

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Civil Engineer  
  
Anik Paul  
Civil Engineer

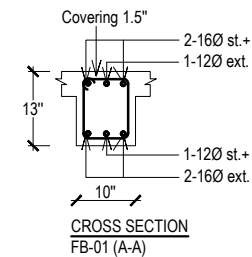
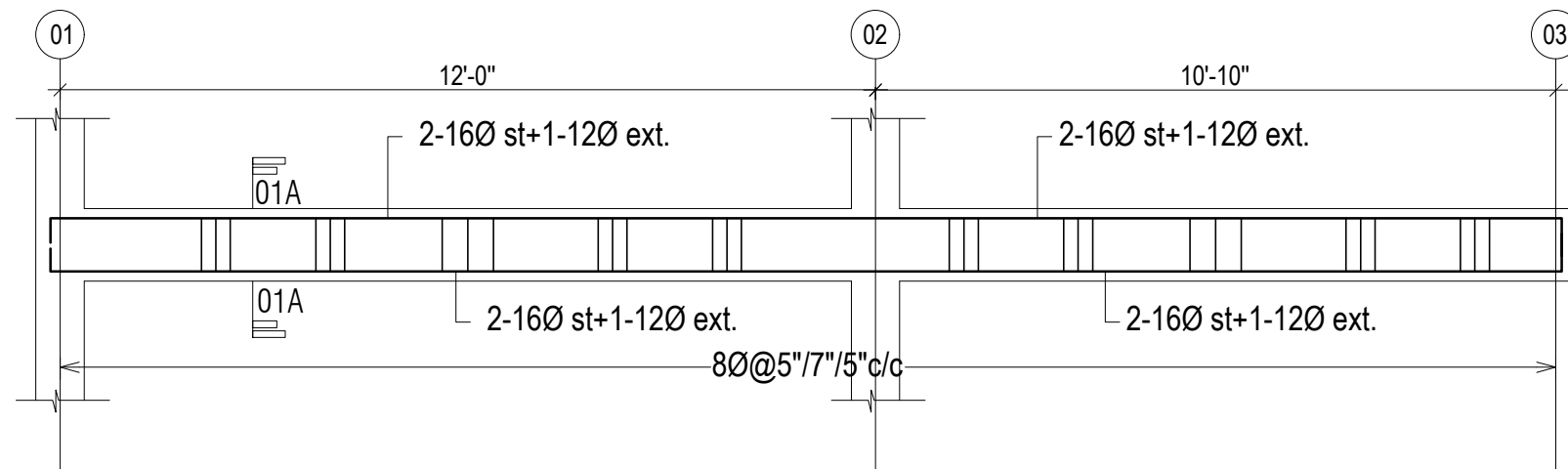
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2-STORIED COTTAGE BUILDING.

SHEET NO :

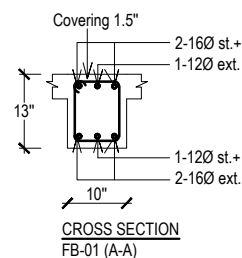
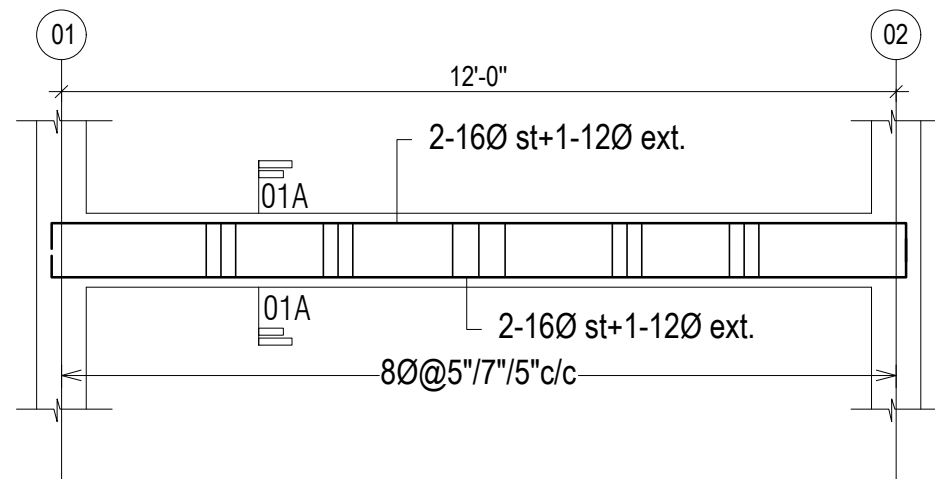
SCALE : NTS

DATE : JAN ,2025

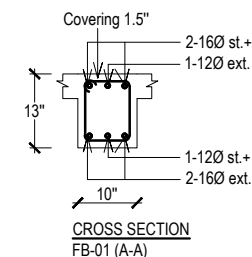
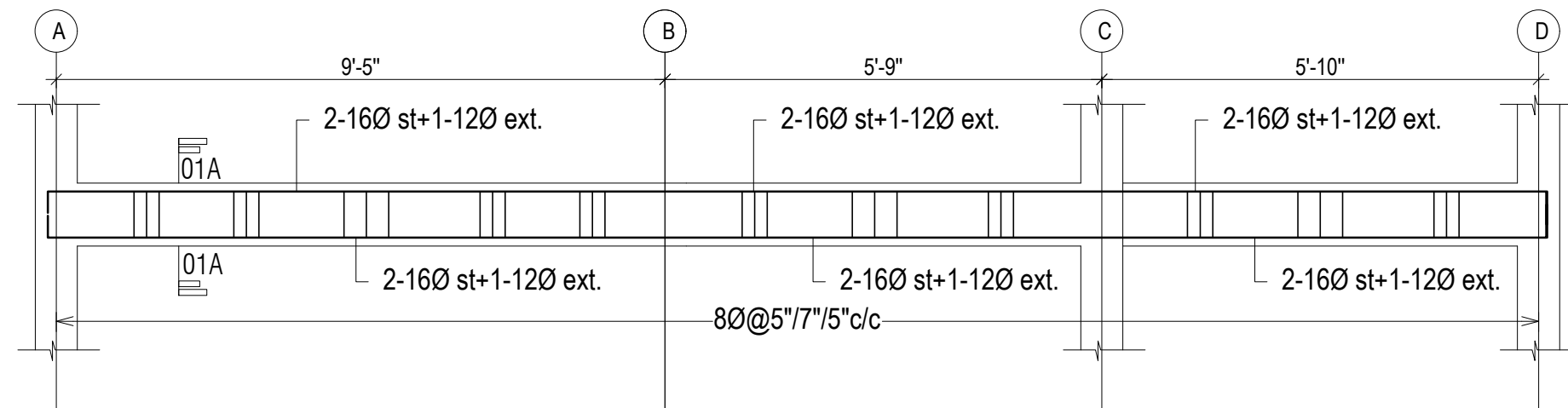




LONG SECTION OF FB-01  
SIZE:-(10"X13")



LONG SECTION OF FB-02  
SIZE:-(10"X13")



LONG SECTION OF FB-03  
SIZE:-(10"X13")

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
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DRAWING BY :

Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
Jr.Architect



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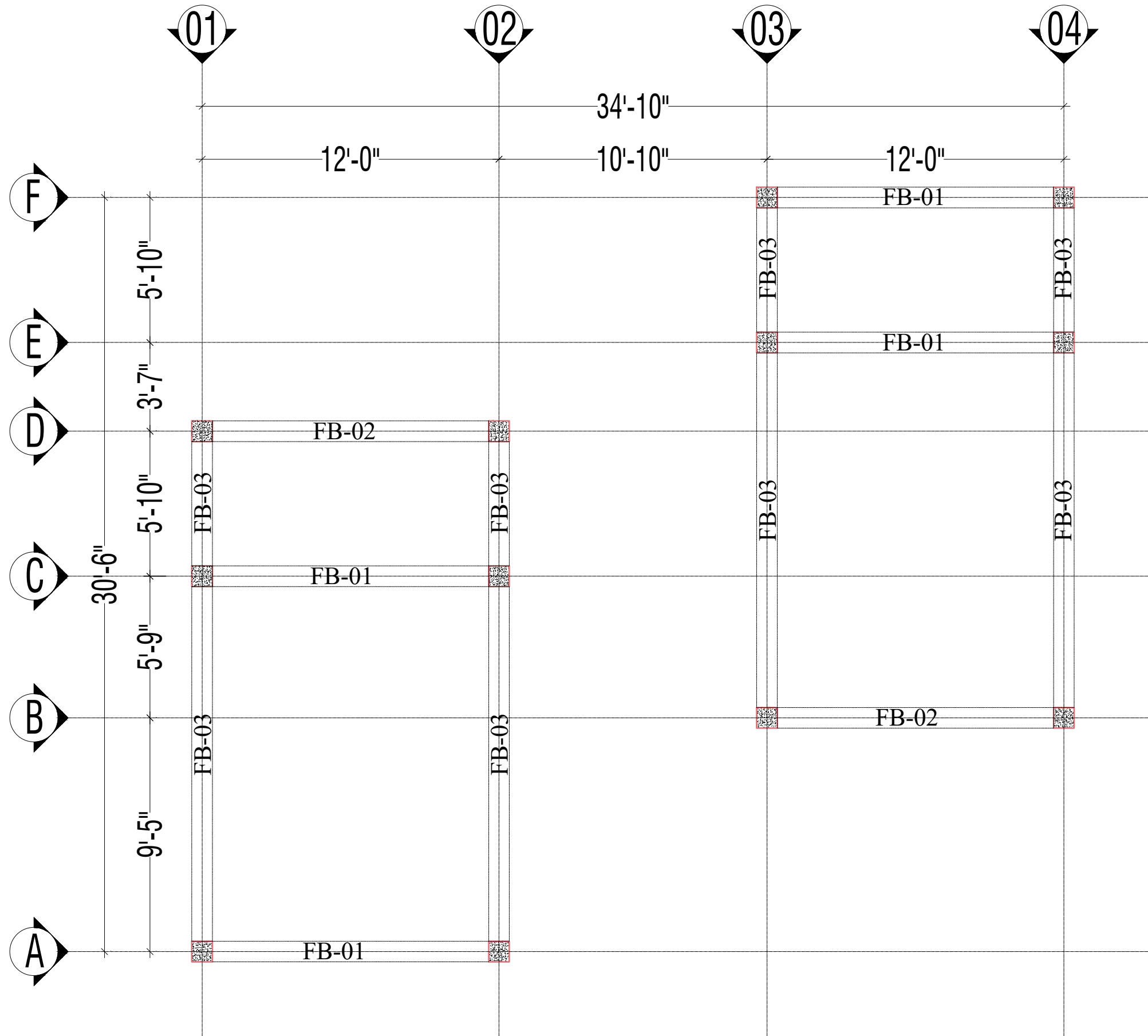
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



GROUND FLOOR ROOF BEAM LAYOUT

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
Architect (DUET)  
  
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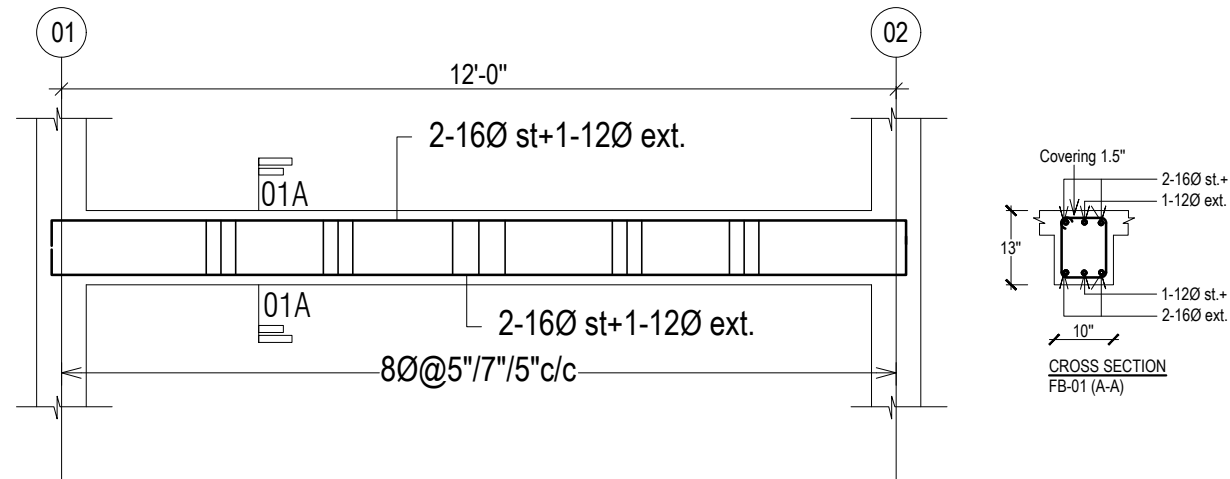
|                                |             |
|--------------------------------|-------------|
| ENGINEER :                     | SIGNATURE : |
| Md. Solaiman<br>Civil Engineer |             |
| Anik Paul<br>Civil Engineer    |             |

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

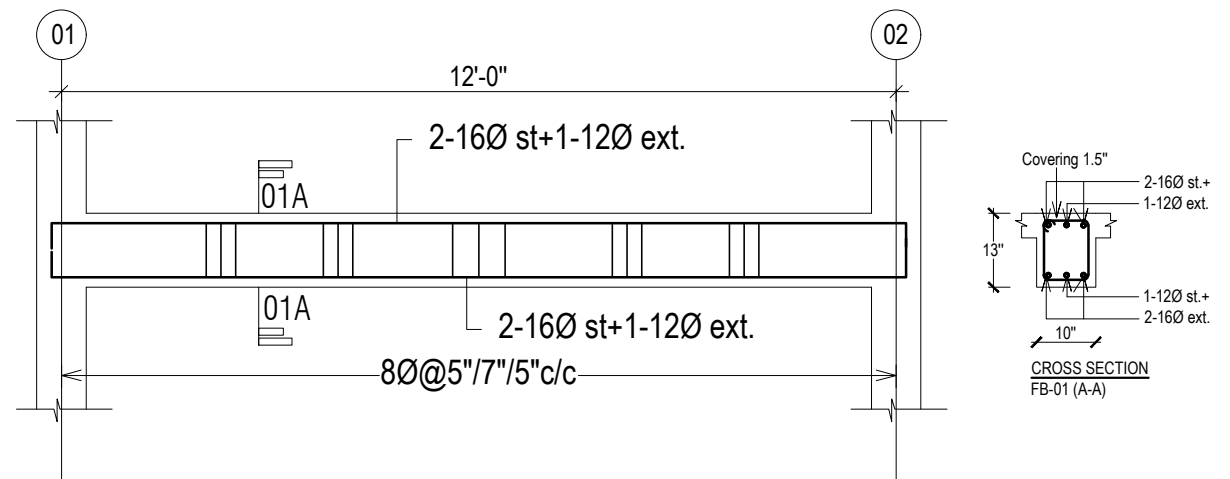
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SCALE : NTS

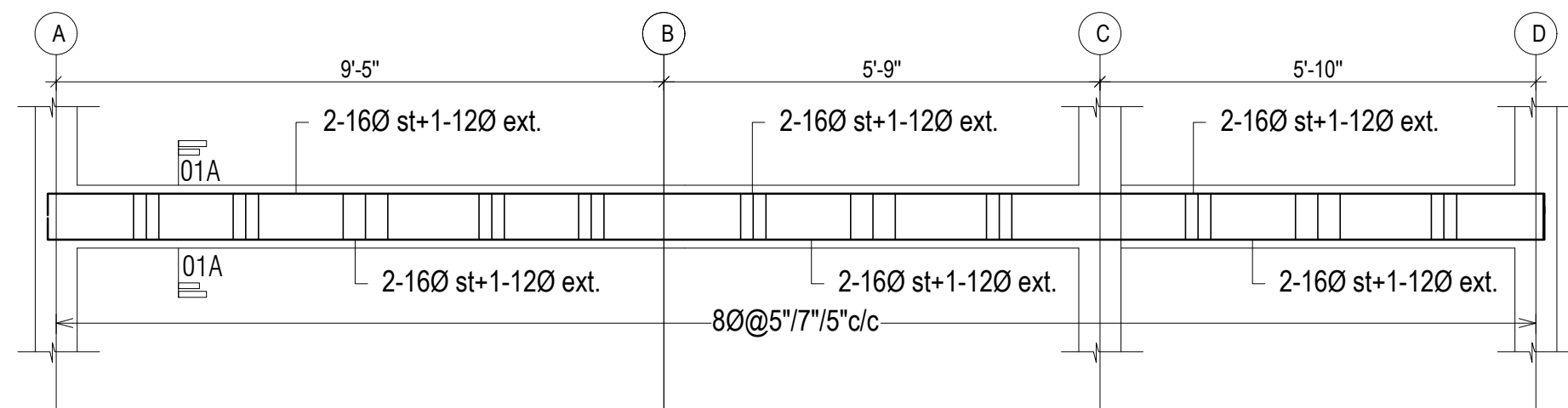
DATE : JAN ,2025



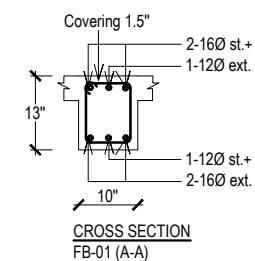
LONG SECTION OF FB-01  
SIZE:-(10"X13")



LONG SECTION OF FB-02  
SIZE:-(10"X13")



LONG SECTION OF FB-03  
SIZE:-(10"X13")



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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :  
Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
Jr.Architect

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Civil Engineer

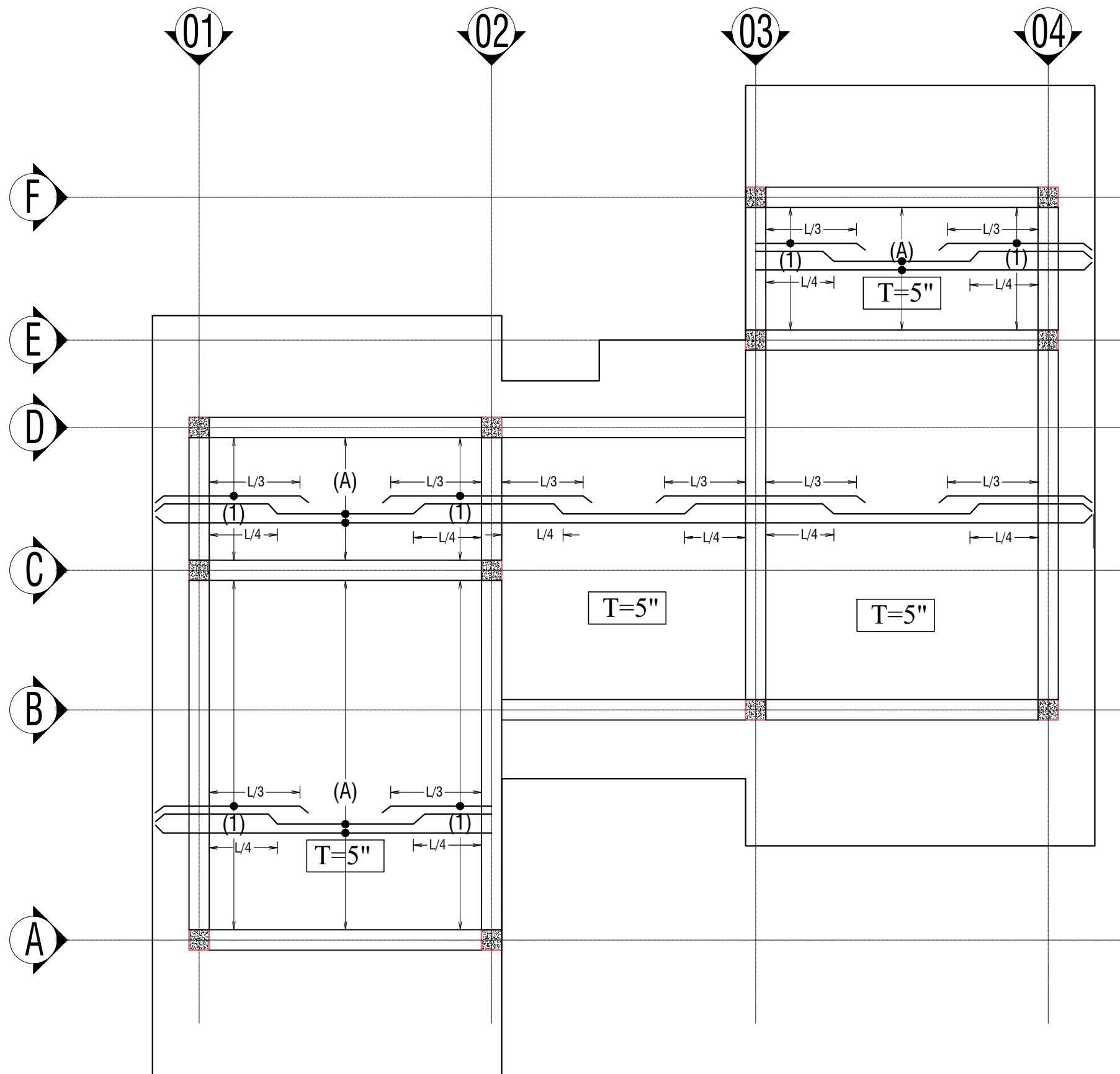
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



GROUND FLOOR SLAB

### Note:

- Minimum Clear Cover to rebar top =  $\frac{3}{4}$ "
- Minimum Clear Cover to rebar bottom = 1"
- Min  $f'c=3000$  psi (28 days cylinder strength)  
use mix ratio = 1:2:4 and w/c=0.42
- Min  $f_y=60000$ psi

- BEAM COLUMN JOINT CASTING AS COLUMN CONCRETE CASTING.

### NOTE:-

#### BOTTOM BAR-

(A)-10Ø@5.0"c/c

#### TOP BAR-

(1) - 1-10Ø ext top.

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
Jr.Architect



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ENGINEER : SIGNATURE :

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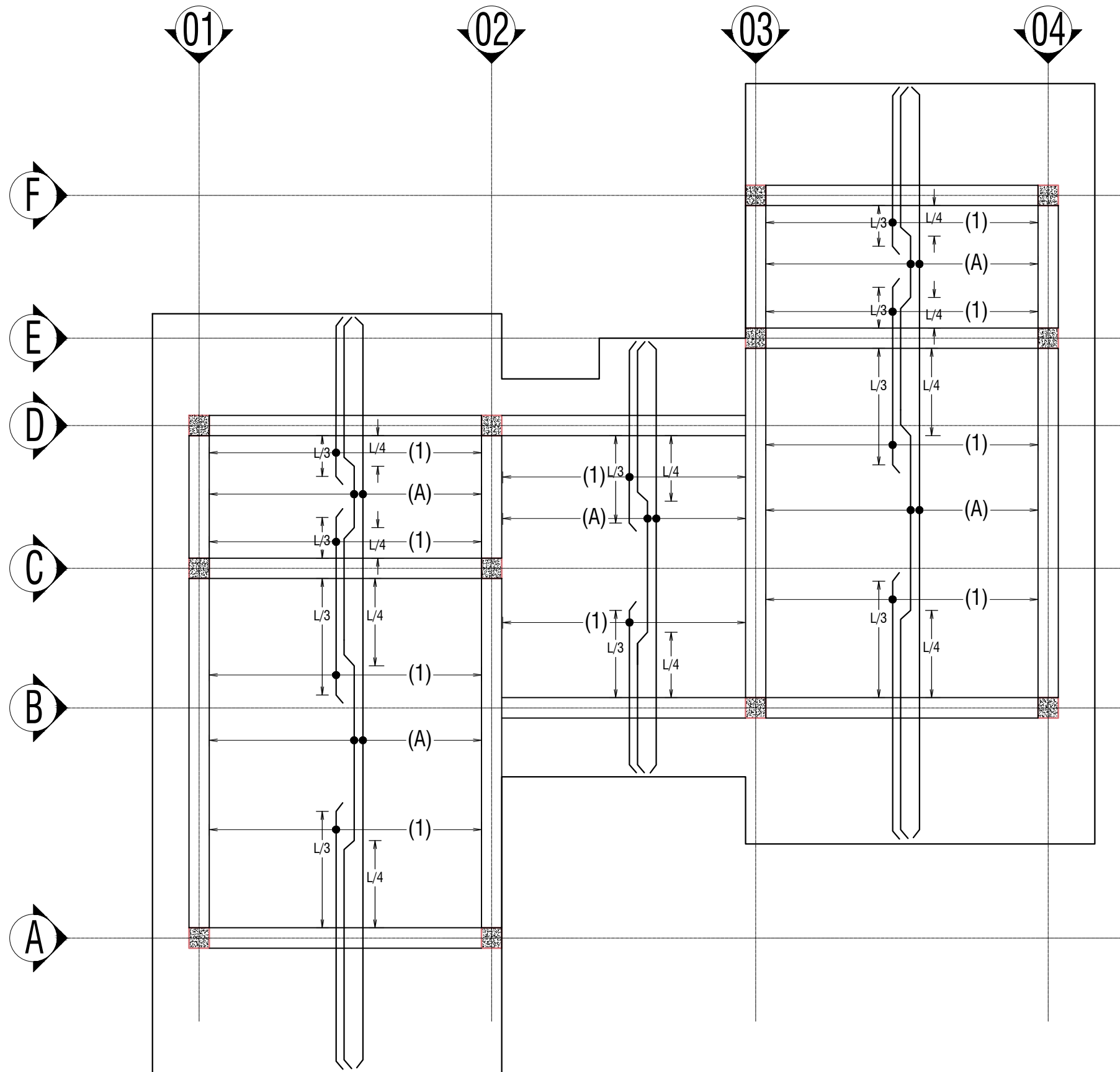
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



GROUND FLOOR SLAB

## Note:

- i) Minimum Clear Cover to rebar top =  $\frac{3}{4}$ "
- ii) Minimum Clear Cover to rebar bottom = 1"
- iii) Min  $f'c=3000$  psi (28 days cylinder strength)  
use mix ratio = 1:2:4 and w/c=0.42
- iv) Min  $f_y=60000$ psi
- BEAM COLUMN JOINT CASTING AS COLUMN CONCRETE CASTING.

## NOTE:-

### BOTTOM BAR-

(A)-10Ø@5.0"c/c

### TOP BAR-

(1) - 1-10Ø ext top.

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
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ENGINEER : SIGNATURE :

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Civil Engineer

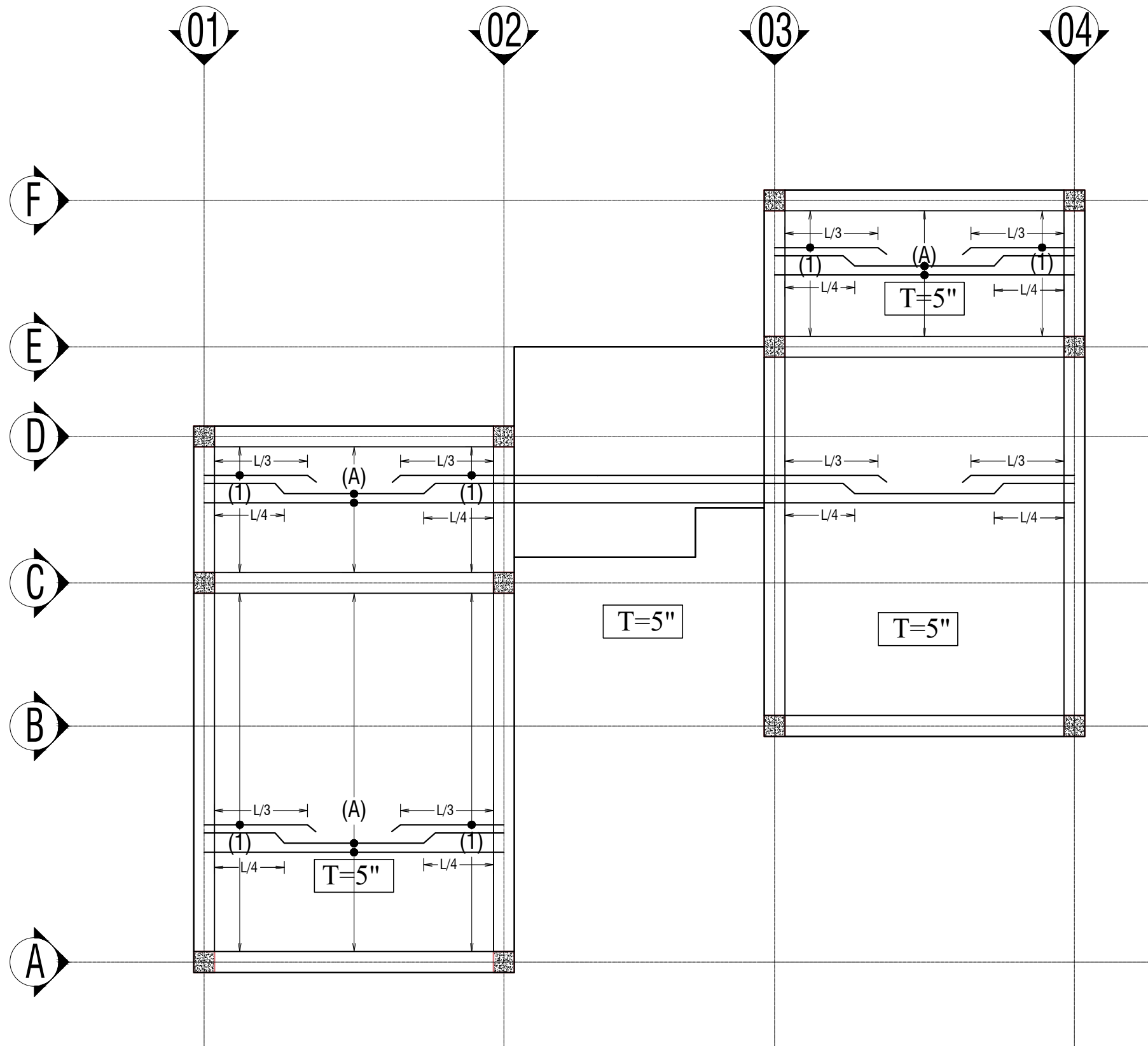
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



1ST FLOOR SLAB

### Note:

- i) Minimum Clear Cover to rebar top =  $\frac{3}{4}$ "
- ii) Minimum Clear Cover to rebar bottom = 1"
- iii) Min  $f'c=3000$  psi (28 days cylinder strenth)  
use mix ratio = 1:2:4 and w/c=0.42
- iv) Min  $f_y=60000$ psi
- BEAM COLUMN JOINT CASTING AS  
COLUMN CONCRETE CASTING.

### NOTE:-

#### BOTTOM BAR-

(A)-10Ø@5.0"c/c

#### TOP BAR-

(1) - 1-10Ø ext top.

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PROPOSED 02 STORIED  
COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron  
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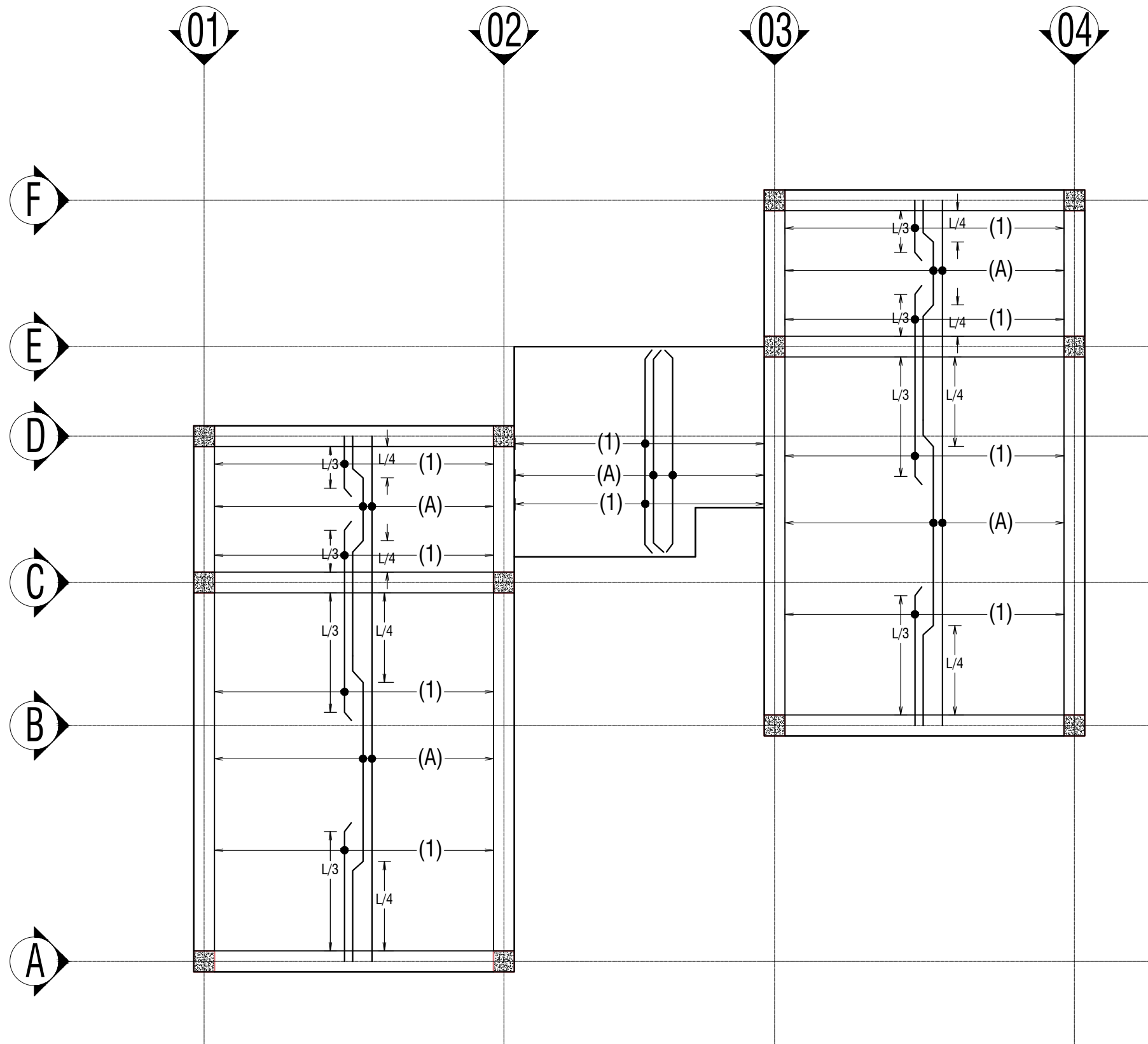
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



## Note:

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use mix ratio = 1:2:4 and w/c=0.42
- iv) Min  $f_y=60000$ psi

- BEAM COLUMN JOINT CASTING AS  
COLUMN CONCRETE CASTING.

## NOTE:-

**BOTTOM BAR-**  
(A)-10Ø@5.0"c/c

**TOP BAR-**  
(1) - 1-10Ø ext top.

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PROPOSED 02 STORIED  
COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STRUCTURAL DRAWING

DRAWING BY :

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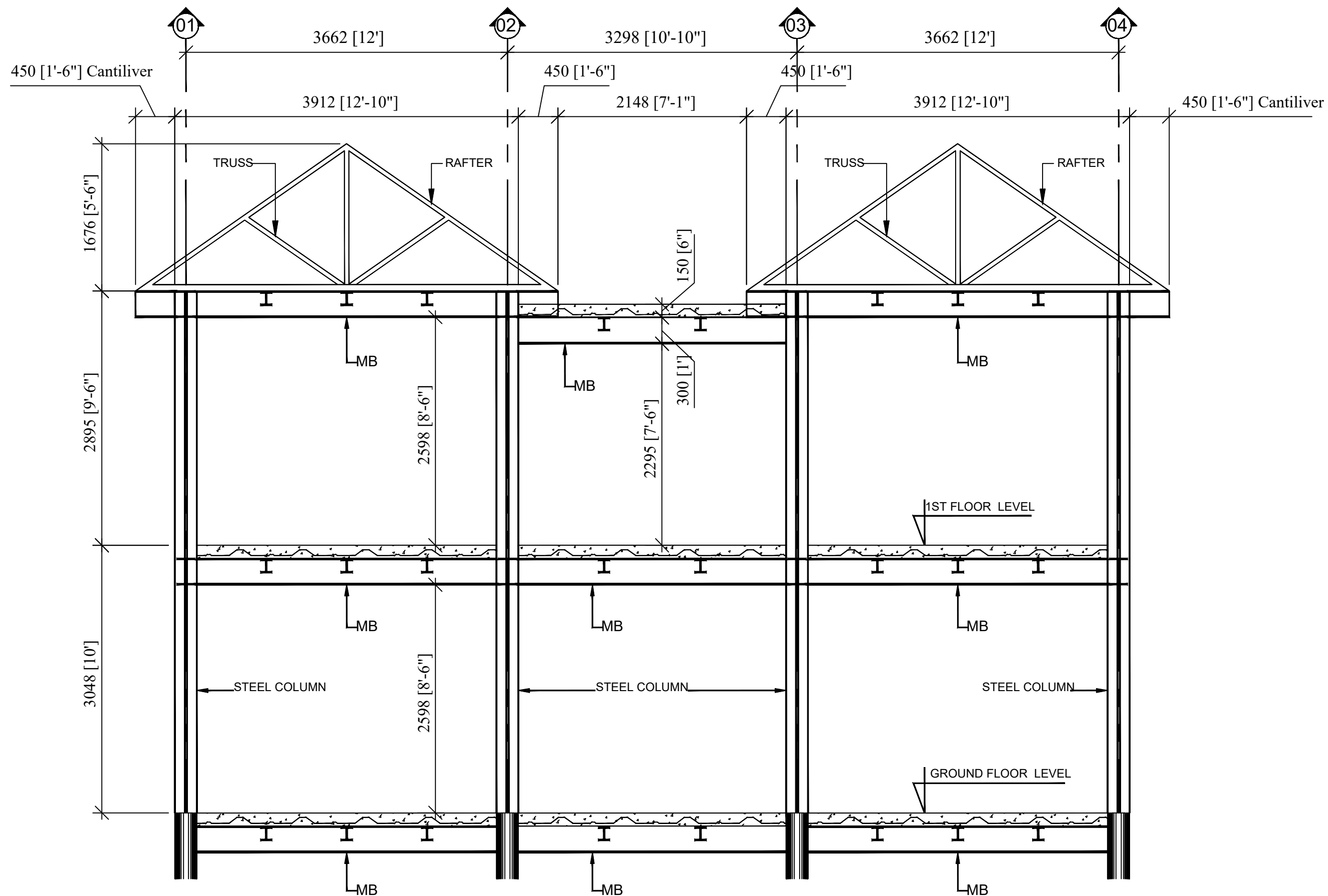
DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025

1ST FLOOR SLAB



SECTION ON : A-A

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PROPOSED 02 STORIED  
COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
STEEL STRUCTURAL  
DRAWING

DRAWING BY :

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Kaniz Sufia Shimul  
Jr. Architect



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ENGINEER :      SIGNATURE :

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Anik Paul  
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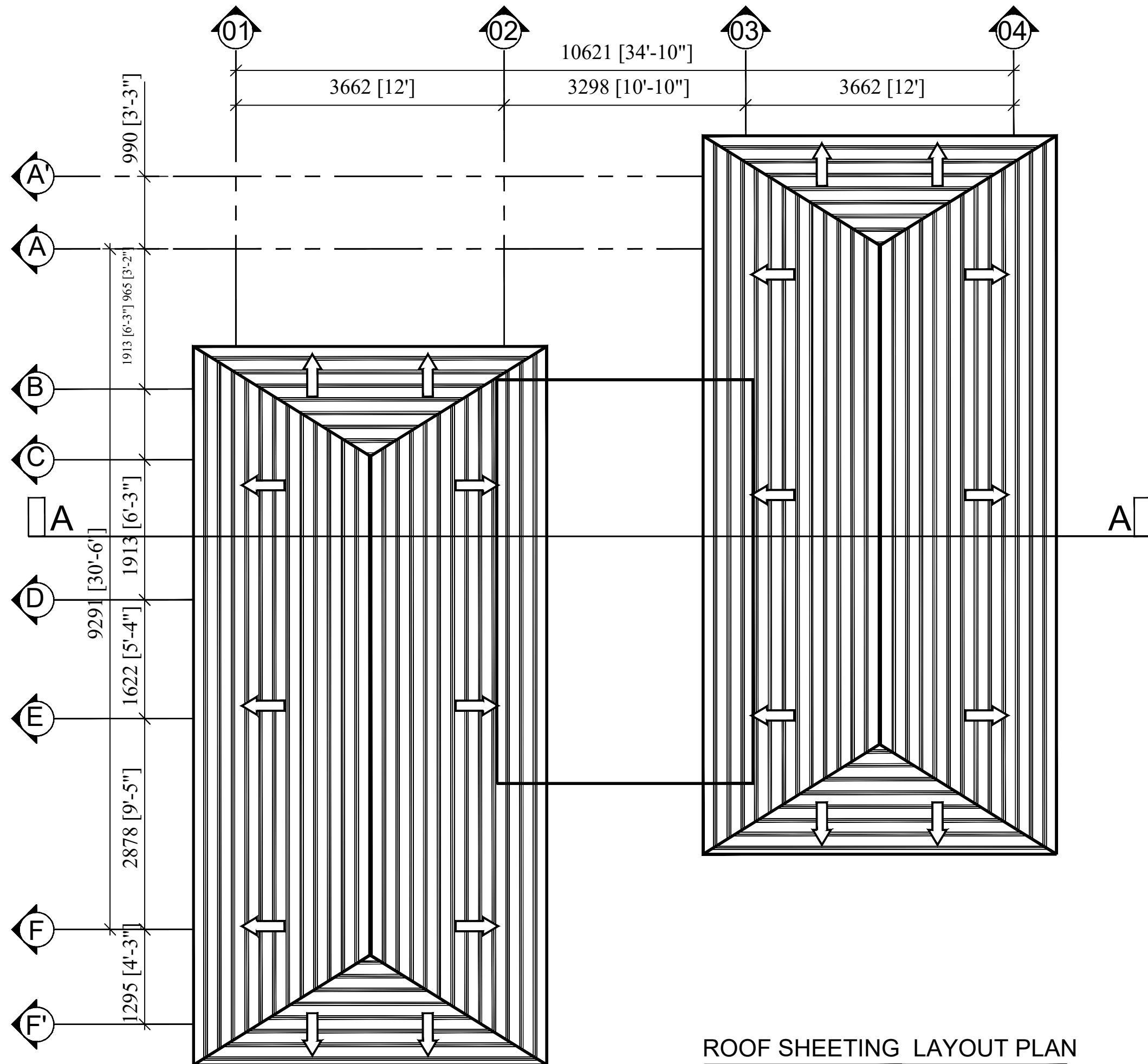
DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025





ROOF SHEETING LAYOUT PLAN

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PROPOSED 02 STORIED COTTAGE BUILDING INANI, COX'S BAZAR .

CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : STEEL STRUCTURAL DRAWING

DRAWING BY :

Saif Uddin Hiron  
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Kaniz Sufia Shimul  
Jr. Architect



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Web : www.kanonarchbd.com

ENGINEER : SIGNATURE :

Md. Solaiman  
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Anik Paul  
Civil Engineer

DRAWING NO : 2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN , 2025

# BEACH PARADISE HOTEL & RESTAURANT

## (COTTAGE PLUMBING DRAWING)

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
PLUMBING DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
Architect (DUET)  
  
Kaniz Sufia Shimul  
Jr.Architect



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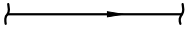
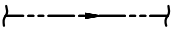

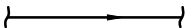
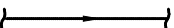










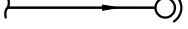
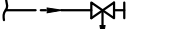




























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Anik Paul  
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DRAWING NO :  
2-STORIED COTTAGE BUILDING.

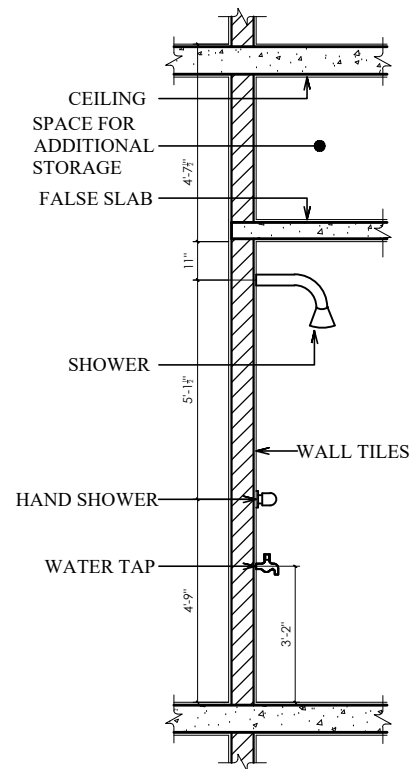
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SCALE : NTS

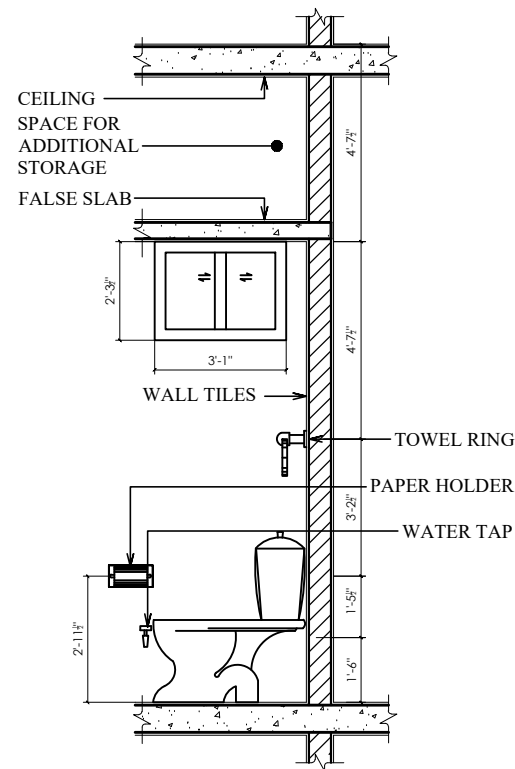
DATE : JAN ,2025

| LEGEND : (SEWERAGE & DRAINAGE) : |   | ABBREVIATION<br>(SEWERAGE & DRAINAGE) : |   | LEGENDS : (WATER SUPPLY) :  |                                  | ABBREVIATION : (WATER SUPPLY) :  |   |
|----------------------------------|---|---|---|---|----------------------------------|--|---|
| 01.                              |    | SOIL PIPE                               | 01. C.O. : CLEAN OUT  | 01.    | COLD WATER PIPE                  | 01. C.W.P. : COLD WATER PIPE   | 01.  SS : SOIL WATER STACK   |
| 02.                              |    | WASTE WATER PIPE                        | 02. F.P. : FLOOR PASS   | 02.    | HOT WATER PIPE                   | 02. F.C. : FALSE CEILING   | 02.  WWS : WASTE WATER STACK |
| 03.                              |    | RAIN WATER PIPE                         | 03. F.T. : FLOOR TRAP   | 03.    | PIPE DROPPING DOWN               | 03. F.P. : FLOOR PASS  | 03.  RWS : RAIN WATER STACK  |
| 04.                              |    | VENT PIPE                               | 04. D.I.L.S. : DEPTH OF INVERT LEVEL OF I.P (SOIL) FROM FGL.  | 04.    | GATE VALVE                       | 04. F.F.L. : FINISHED FLOOR LEVEL  | 04.  VS : VENT STACK         |
| 05.                              |    | PIPE DROPPING DOWN                      | 05. D.I.L.W. : DEPTH OF INVERT LEVEL OF I.P (RAIN & WASTE) FROM FGL.  | 05.    | ANGLE VALVE                      | 05. F.T. : FLOOR TRAP  | 05.  WDP : WATER DOWN PIPE   |
| 06.                              |    | BEND WITH ACCESS DOOR                   | 06. I.P. : INSPECTION PIT   | 06.    | GLOBE VALVE                      | 06. G.I. : GALVANIZING IRON  | 06.  GATE VALVE              |
| 07.                              |    | CROSS TEE WITH ACCESS DOOR              | 07. K.W. : KITCHEN WASTE  | 07.    | CHECK VALVE                      | 07. H.W.P. : HOT WATER PIPE  | 07.  REDUCER                 |
| 08.                              |    | Y-TEE WITH ACCESS DOOR                  | 08. R.W. : RAIN WATER   | 08.    | FLEXIBLE JOINT                   | 08. P.S. : PRESSURE SWITCH   | 08.  ELBOW                   |
| 09.                              |    | P-TRAP                                  | 09. S. : SOIL   | 09.    | WATER TAP                        | 09. Ø. : DIAMETER  | 09.  WASTE PIT               |
| 10.                              |    | CLEAN OUT                               | 10. V. : VENT   | 10.    | MIXER TAP                        | 10. UV : ULTRA VIOLET  | 10.  SOIL PIT                |
| 11.                              |  | FLOOR TRAP/ FLOOR DRAIN                 | 11. W.W. : WASTE WATER  | 11.  | FAUCET                           | 11. W.H. : WATER HEATER  | 11.  WASH BASIN (WB)       |
| 12.                              |  | INSPECTION PIT                          | 12. W.W.P. : WASTE WATER PIPE   | 12.  | SHOWER HEAD                      | 12. W.S. : WATER SUPPLY  | 12.  LONG PAN (LP)         |
| 13.                              |  | MANHOLE COVER                           | 13. THRU. : THROUGH   | 13.  | WATER SUPPLY PUMP                | <u>GENERAL NOTE : (WATER SUPPLY) :</u>   |   |
|                                  |   |   | 14. uPVC. : UNPLASTICIZED POLYVINYL CHLORIDE  | 14.  | ELECTRICAL WATER HEATER (GEYSER) | 01. ALL WASH BASINS & SINKS SHALL BE PROVIDED WITH BOTTLE TRAP   |   |
|                                  |   |   | <u>GENERAL NOTE : (SOIL &amp; WASTE WATER)</u>  |   |                                  | 02. ALL WATER SUPPLY PIPES (COLD OR HOT) SHALL BE OF G.I / PPR.  |   |
|                                  |   |   | 01. ALL INTERNAL WASTE WATER PIPES CONNECTION BELOW FLOOR (THRU F.C) FROM FLOOR TRAP TO VERTICAL STACK SHALL BE 4" DIA. |   |                                  | 13.  SHOWER POINT |   |
|                                  |   |   | 02. ALL OTHER WASTE WATER PIPE CONNECTION THRU FLOOR FROM BASIN TO FLOOR TRAP SHALL BE 1-1/4" DIA                       |   |                                  | 14.  BIB COCK     |   |
|                                  |   |   | 03. FROM WASH,SINK, BATH TUB, SHOWER TRAY TO FLOOR TRAP SHALL BE 1-1/2" DIA.  |   |                                  | 15.  BATH TUB     |   |
|                                  |   |   | 04. ALL INTERNAL SOIL PIPES CONNECTION BELOW FLOOR (THRU F.C) FROM WC/PAN TO VERTICAL STACK SHALL BE 4" DIA.            |   |                                  | 16.  BURNER       |   |
|                                  |   |   |   |   |                                  | 17.  KITCHEN SINK |   |
|                                  |   |   |   |   |                                  | 18.  KITCHEN SINK |   |

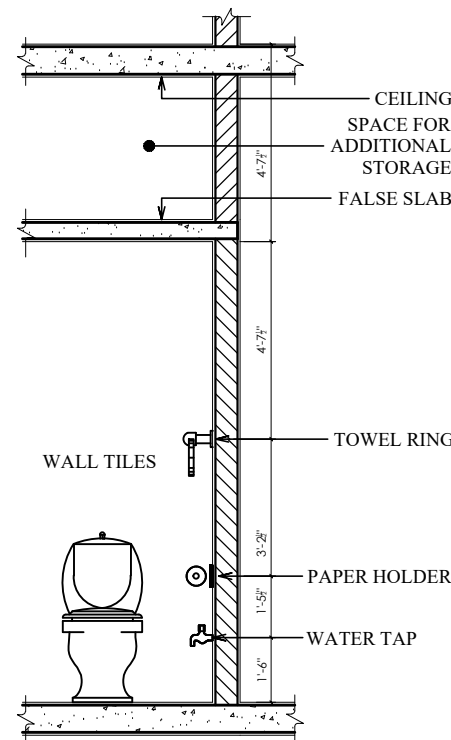
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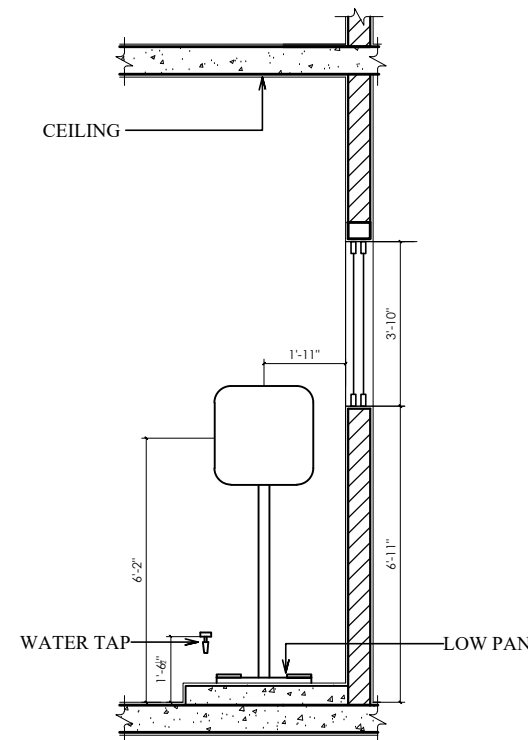
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SHOWER



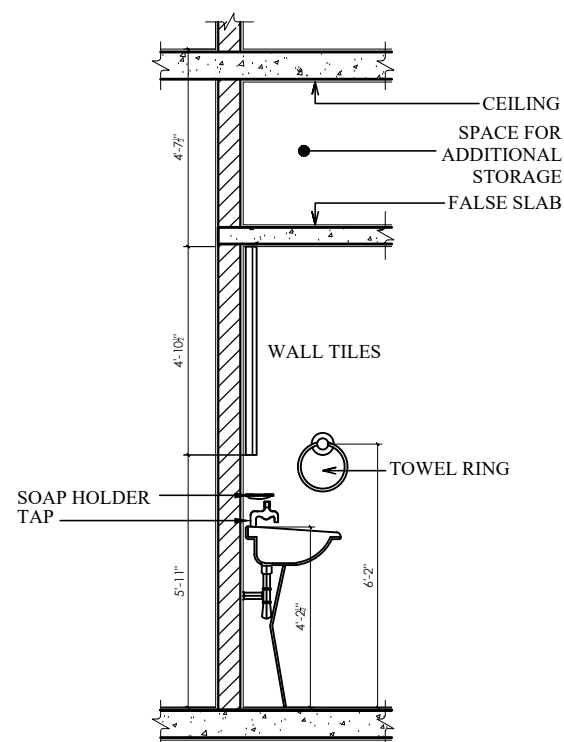
TYPICAL SECTION OF  
COMMODE



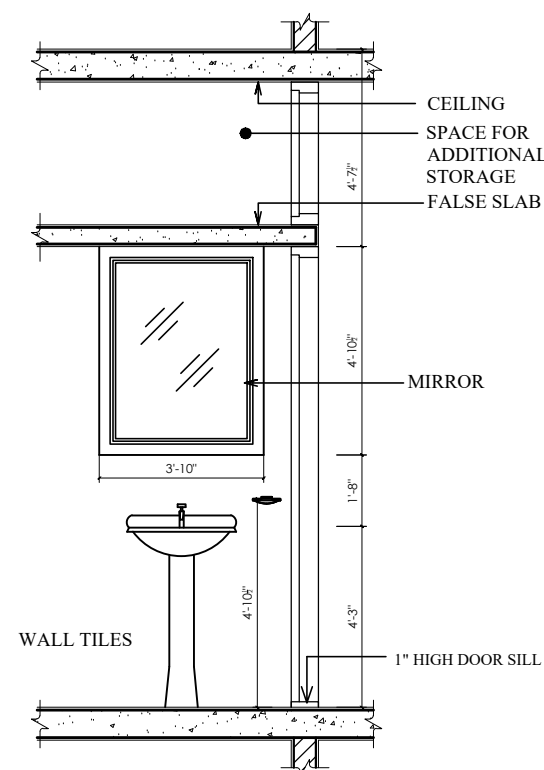
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COMMODE



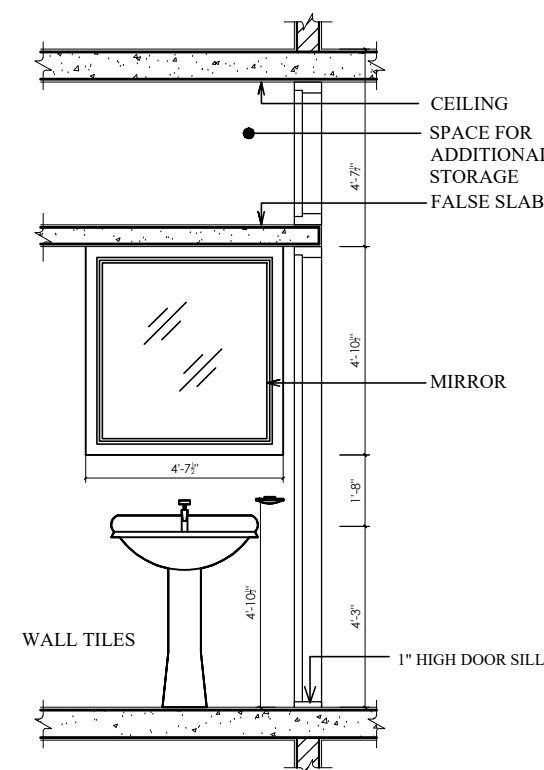
TYPICAL SECTION OF  
LOW PAN (common toilet zone)



TYPICAL SECTION OF  
PEDESTRIAN BASIN



TYPICAL SECTIONAL ELEVATION OF  
PEDESTRIAN BASIN



TYPICAL SECTIONAL ELEVATION OF  
PEDESTRIAN BASIN

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PROPOSED 02 STORIED  
COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL &  
RESTAURANT

DRAWING TITLE :  
PLUMBING DRAWING

DRAWING BY :

Saif Uddin Hiron  
Architect (DUET)

Kaniz Sufia Shimul  
Jr. Architect



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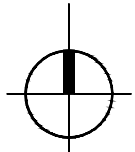
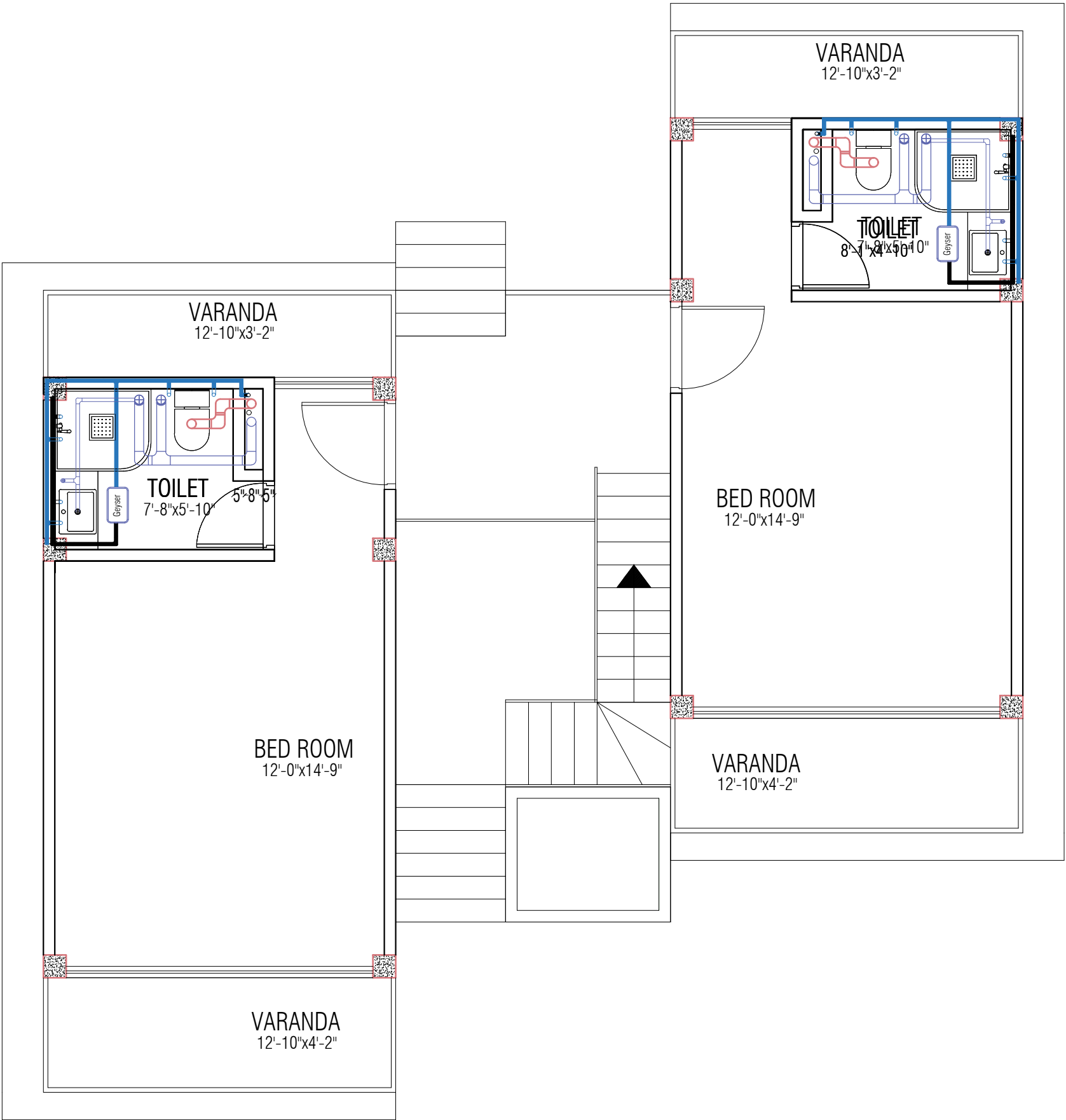
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN , 2025



# COTTAGE SANITARY FITTINGS LAYOUT

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : PLUMBING DRAWING

DRAWING BY :  
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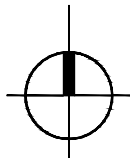
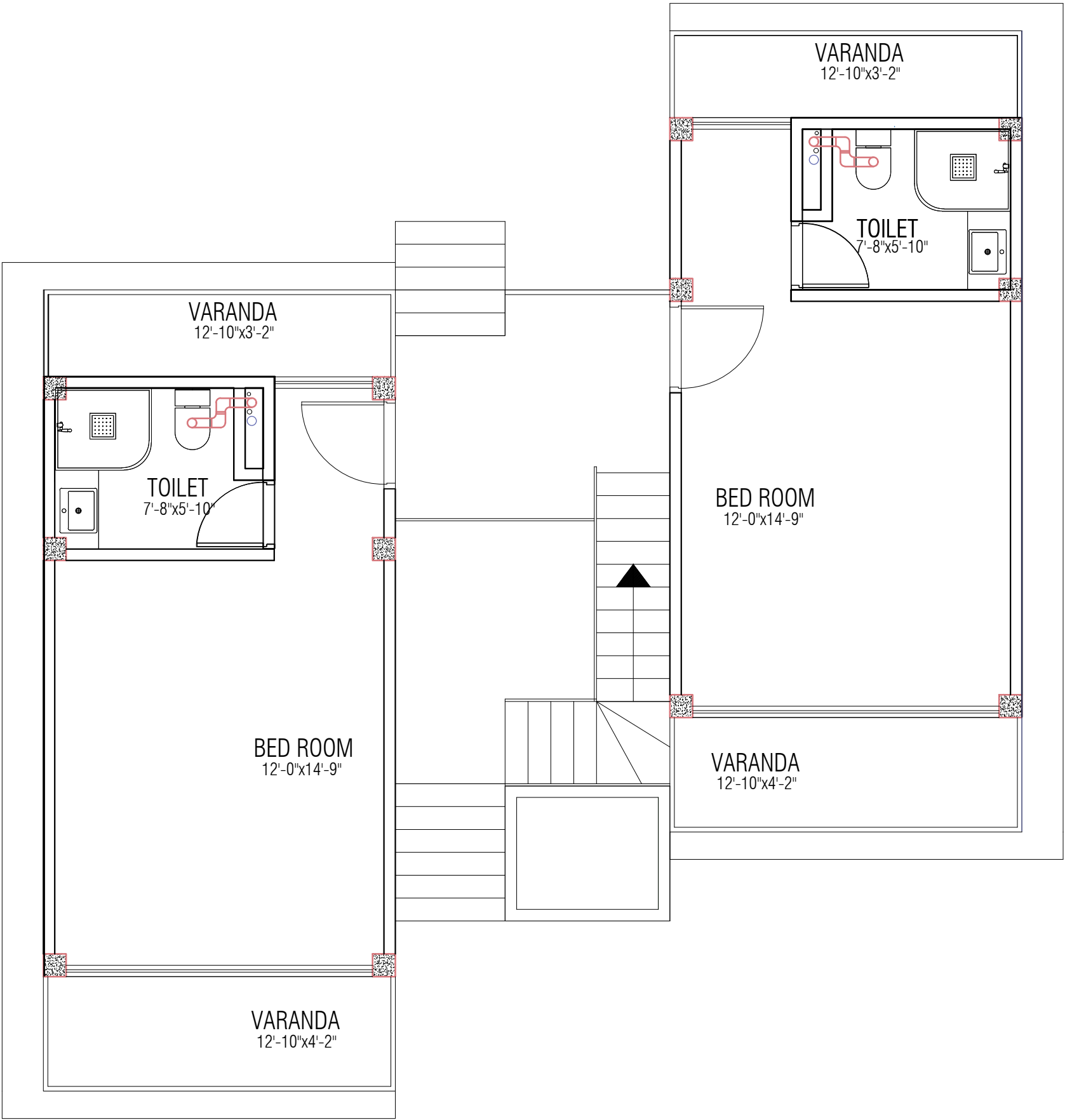
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2-STORIED COTTAGE BUILDING.

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DATE : JAN ,2025



# COTTAGE SOIL PIPE FITTINGS LAYOUT

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CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : PLUMBING DRAWING

DRAWING BY :  
Saif Uddin Hiron  
Architect (DUET)  
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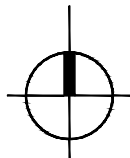
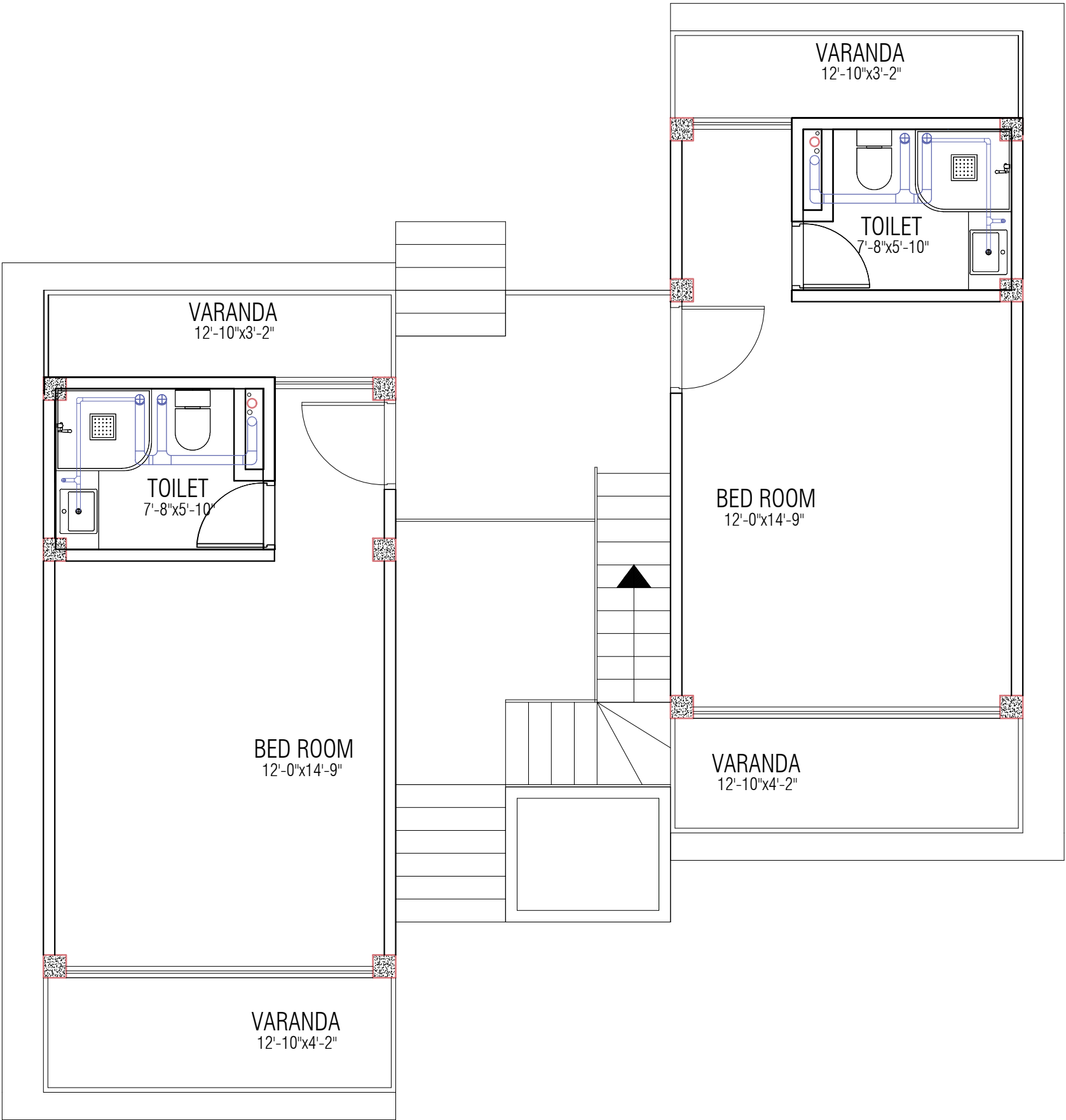
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# COTTAGE WASTE WATER PIPE FITTINGS LAYOUT

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CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : PLUMBING DRAWING

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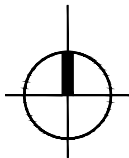
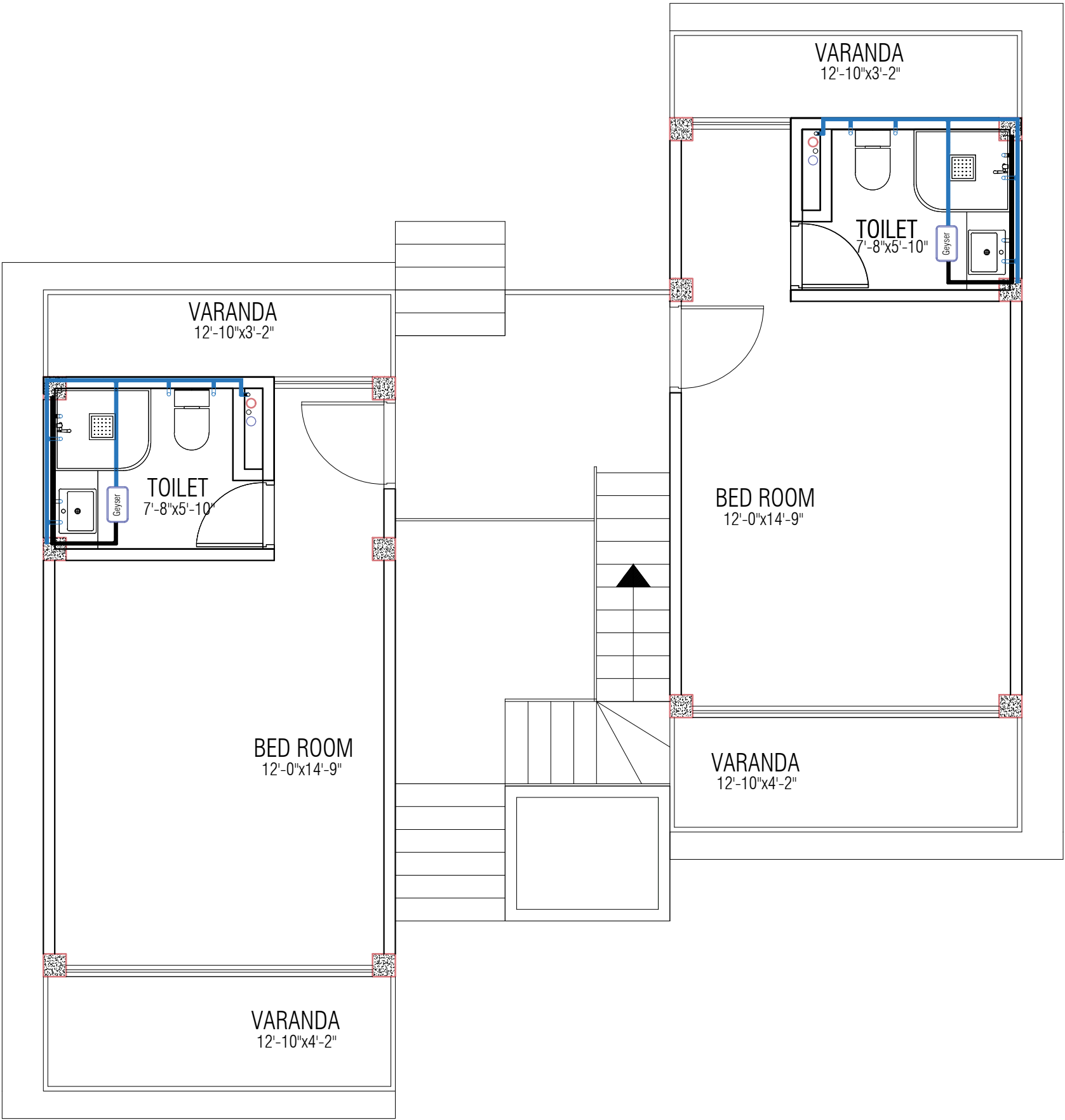
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SHEET NO :

SCALE : NTS

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# COTTAGE WATER SUPPLY SYSTEM FITTINGS LAYOUT

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DRAWING TITLE : PLUMBING DRAWING

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






















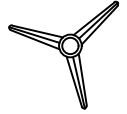



















SCALE : NTS

DATE : JAN ,2025



# BEACH PARADISE HOTEL & RESTAURANT

## (COTTAGE ELECTRICAL DRAWING)

| LEGEND  |      |                          |   |      |  |
|---|------|--------------------------|---|------|--|
|    | CL   | CEILING ROSE             |    | QS   | 15A 3PIN AT SKIRTING                   |
|    | WL   | WALL BRACKET             |    | RS   | 13A 3-PIN AT SKIRTING                  |
|    | BL   | LIGHT ON BASIN           |    | RM   | 13A 3PIN ON MAN HEIGHT                 |
|    | wL   | WALL LIGHT               |    | TS   | TELEPHONE SOCKET AT SKIRTING           |
|    | FWL  | LIGHT IN FALSE CEILING   |    | AS   | ANTENA SOCKET AT SKIRTING              |
|    | SP   | Spot Light               |    | SB   | SWITCH BOARD                           |
|    | GL   | Gate Light               |    | SDB  | SWITCH DISTRIBUTION BOARD              |
|    | SL   | SECURITY LIGHT           |    | BP   | BELL PUSH                              |
|    | GR   | Garden Light             |    | CB   | CALLING BELL                           |
|    | cctv | CC. CAMERA               |    | FDB  | FLAT DISTRIBUTION BOARD                |
|    | TL   | 2' x 4 TUBE LIGHT SHADE  |    | E    | EARTHING                               |
|    | TL   | TUBE LIGHT               |  | L/A  | LIGHTNING ARRESTER                     |
|   | CF   | CEILING FAN              |  | eSB  | EMERGENCY SWITCH BOARD                 |
|  | DP   | 20A Switch               |  | DJB  | CABLE TV JUNCTION BOX                  |
|  | EF   | EXHAUST FAN              |  | MB   | METER BOARD                            |
|  | PS   | 2PIN 10A AT SKIRTING     |  | EMDB | EMERGENCY MAIN/WING DISTRIBUTION BOARD |
|  | PB   | 2PIN 10A ON SB           |  | MDB  | MAIN/WING DISTRIBUTION BOARD           |
|  | PM   | 2PIN 10A ON MAN HEIGHT   |  | IPS  | Integrated Power System                |
|  | QM   | 15A 3PIN ON MAN HEIGHT   |  | IJB  | INTERCOM JUNCTION BOARD                |
|  | QL   | 15A 3PIN AT LINTEL LEVEL |  | IJB  | INTERNET JUNCTION BOARD                |
|  | AC   | AIR CONDITIONER          |  | GS   | GRITURE SWITCH                         |
|   |      |                          |  | TV   | TV ANTINA                              |
|   |      |                          |  | TL   | TELEPHONE LINE                         |

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
ELECTRICAL DRAWING

DRAWING BY :  
  
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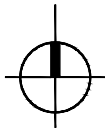
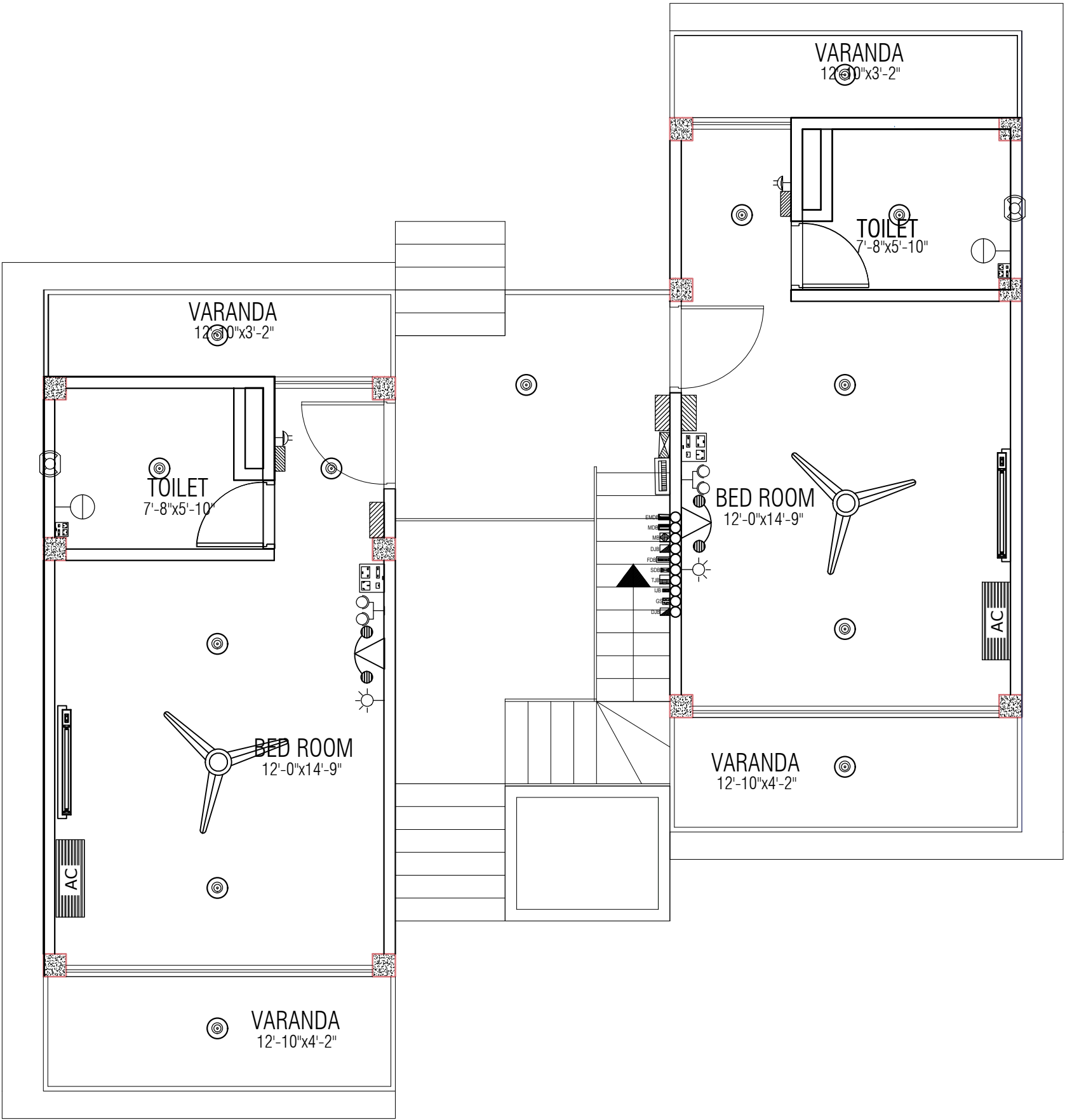
ENGINEER :      SIGNATURE :  
  
Md. Solaiman  
Civil Engineer  
  
Anik Paul  
Civil Engineer

DRAWING NO :  
2-STORIED COTTAGE BUILDING.

SHEET NO :

SCALE : NTS

DATE : JAN ,2025



COTTAGE ELECTRICAL LAYOUT PLAN

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PROPOSED 02 STORIED COTTAGE BUILDING INANI,COX'S BAZAR .

CLIENT : BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE : ELECTRICAL DRAWING

DRAWING BY :  
Saif Uddin Hiron  
Architect (DUET)  
Kaniz Sufia Shimul  
Jr.Architect



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ENGINEER :  
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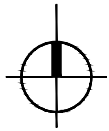
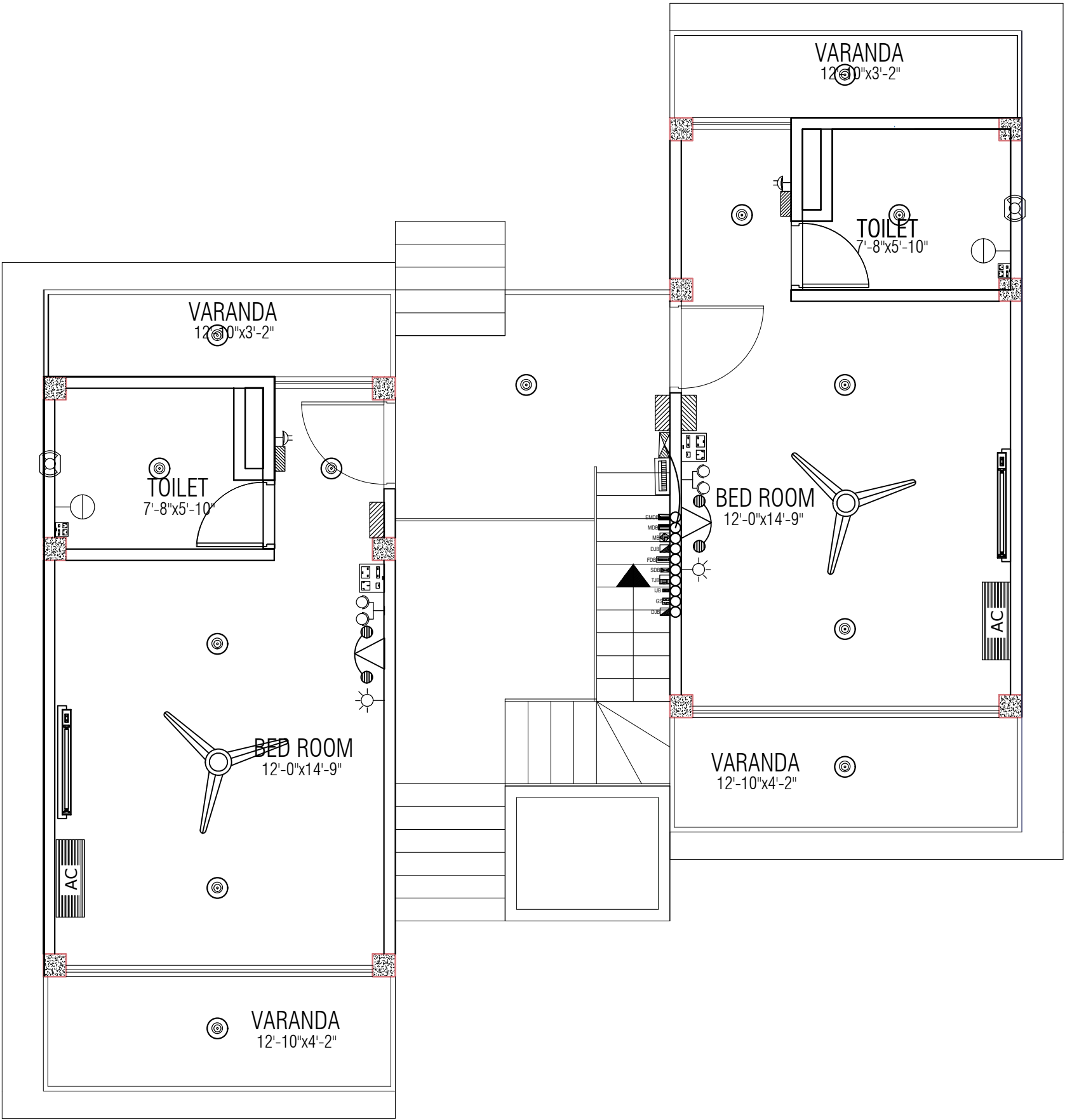
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**COTTAGE MDB TO SDB CONNECTION LAYOUT PLAN**  
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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
ELECTRICAL DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
Architect (DUET)  
  
Kaniz Sufia Shimul  
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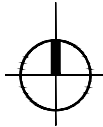
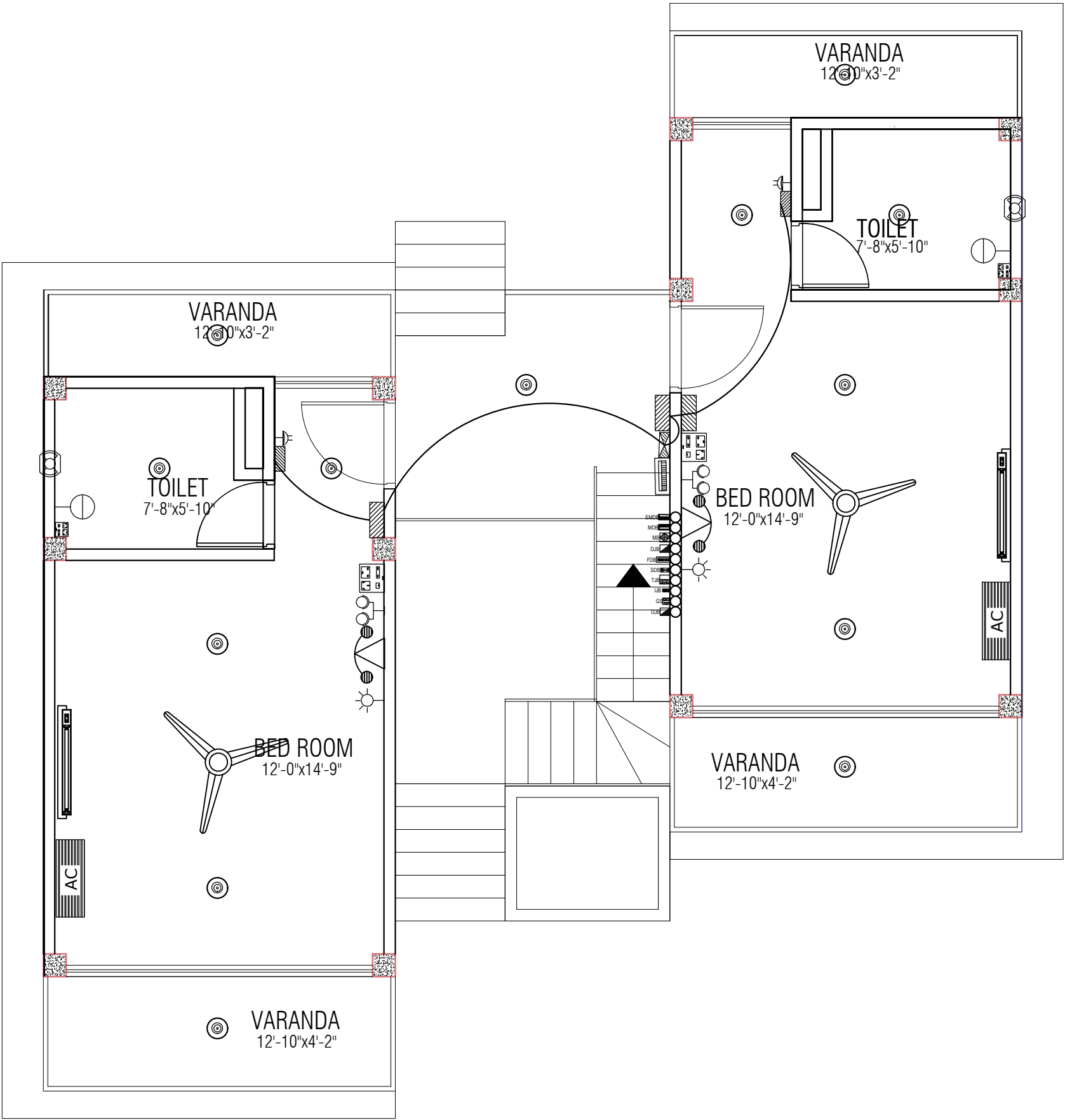


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**COTTAGE SDB TO SB CONNECTION LAYOUT PLAN**

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI, COX'S BAZAR .

CLIENT :  
BEACH PARADISE HOTEL & RESTAURANT

DRAWING TITLE :  
ELECTRICAL DRAWING

DRAWING BY :  
  
Saif Uddin Hiron  
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Kaniz Sufia Shimul  
Jr. Architect

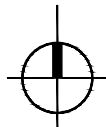
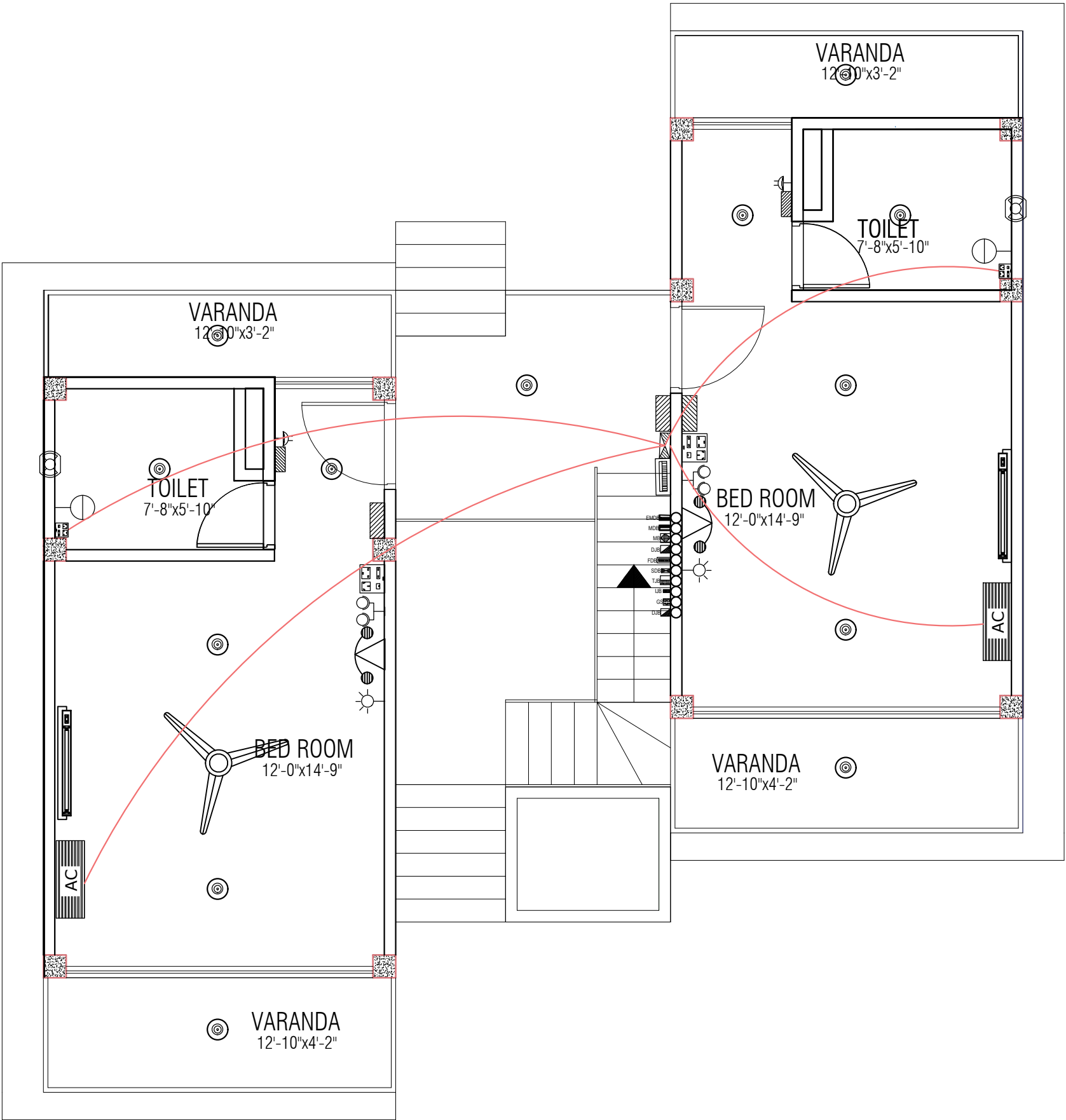


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| Anik Paul<br>Civil Engineer    |             |

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**COTTAGE SDB TO AC CONNECTION LAYOUT PLAN**

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PROPOSED 02 STORIED COTTAGE BUILDING  
INANI,COX'S BAZAR .

CLIENT :  
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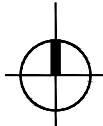
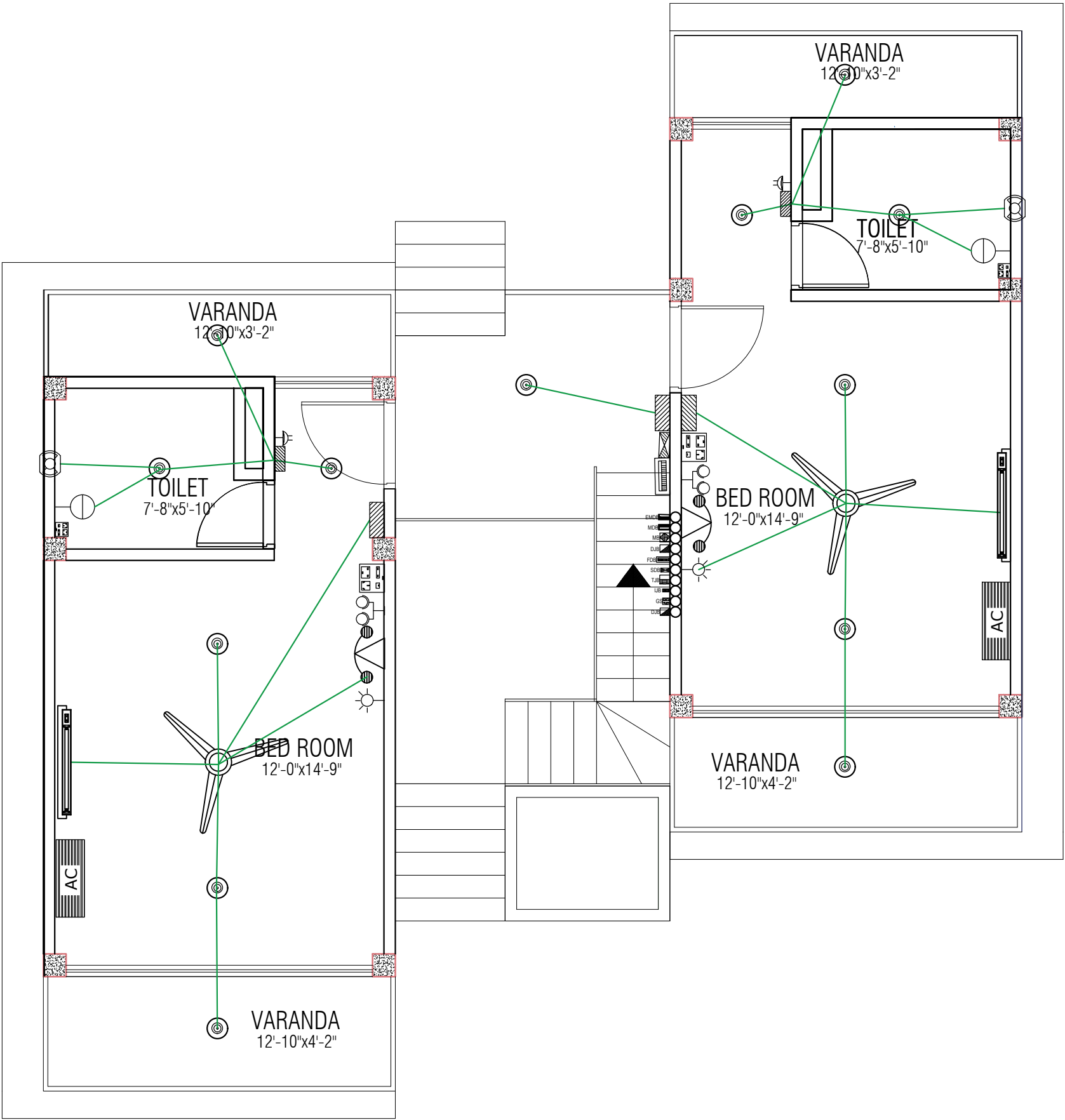
ENGINEER :      SIGNATURE :  
  
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Civil Engineer  
  
Anik Paul  
Civil Engineer

DRAWING NO :  
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**COTTAGE SB TO FITTINGS LAYOUT PLAN**  
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