

# KWABENA KISSIEDU

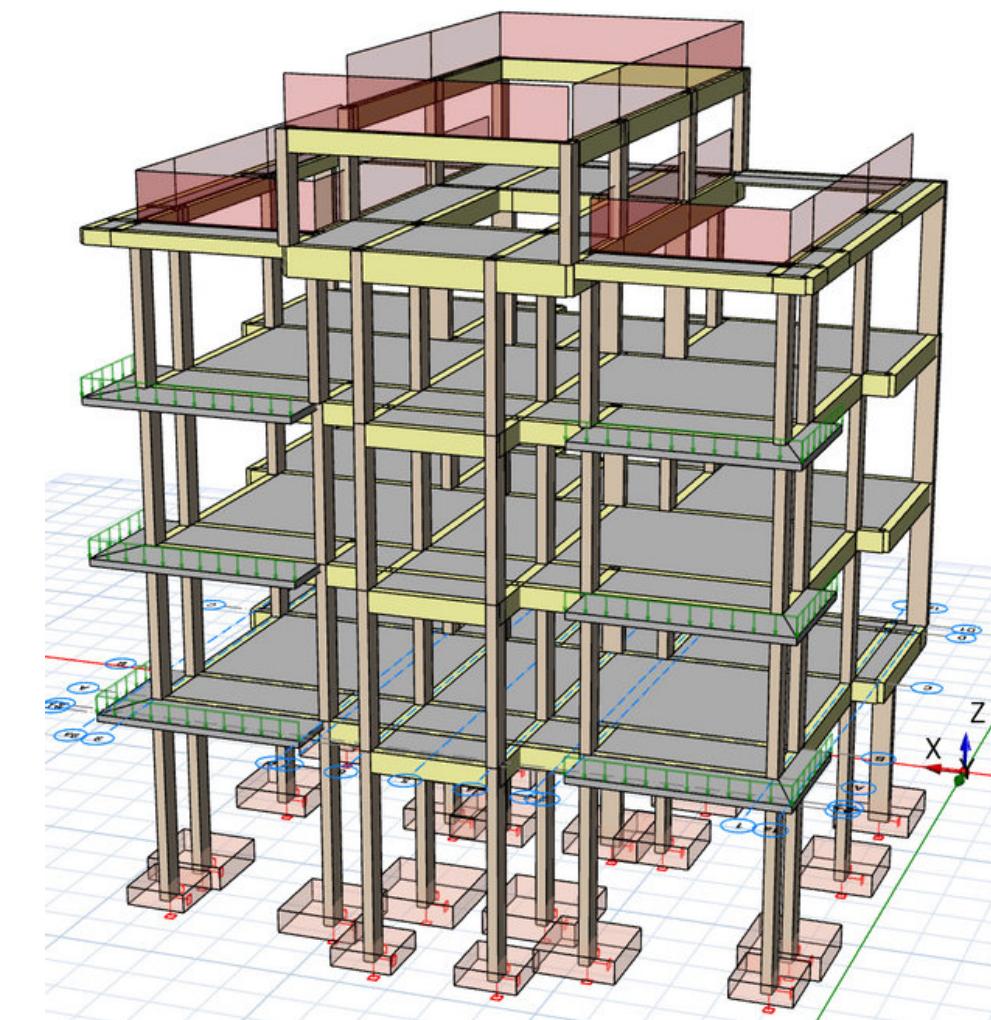
GRADUATE STRUCTURAL ENGINEER TRAINEE | K.N.U.T.

✉️ [kissiedukwabena4@gmail.com](mailto:kissiedukwabena4@gmail.com)

📞 0501101620

🌐 <https://kwabena-kissiedu.webflow.io/>

## WD STUDIO APARTMENT - THE ANTHRACITE LTD.



### Tasks

- Prepared General Arrangement for the building using **Autodesk Revit**.
- Ran structural analysis and determined structural member sizes and rebar specifications using **ProtaStructure**.
- Prepared detailed structural drawings for construction using **Autodesk Revit**.
- Rendered cover image using **Lumion**.

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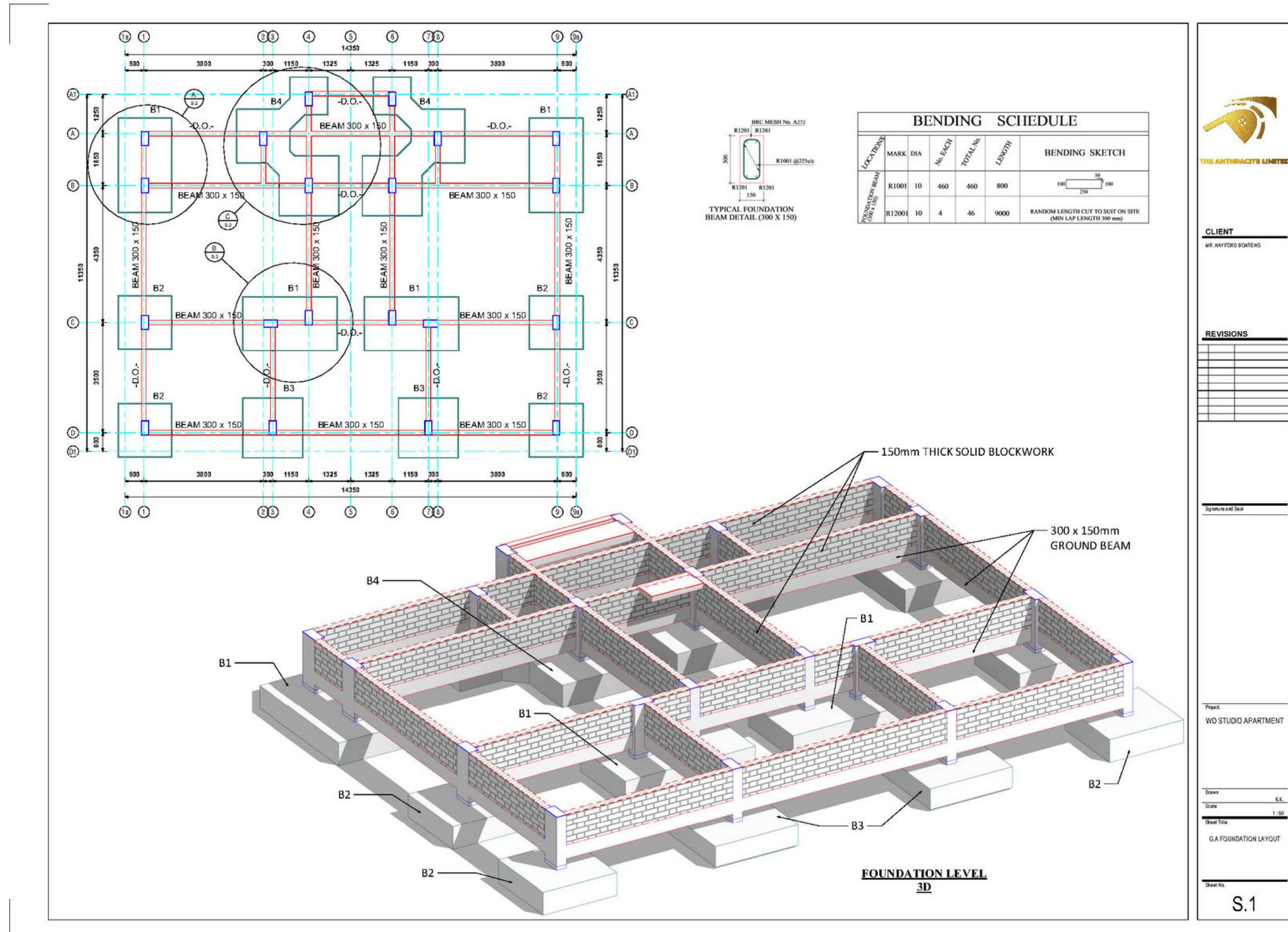
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## WD STUDIO APARTMENT - THE ANTHRACITE LTD.



BUILDING FOUNDATION  
LAYOUT DETAILED IN  
AUTODESK REVIT

# KWABENA KISSIEDU

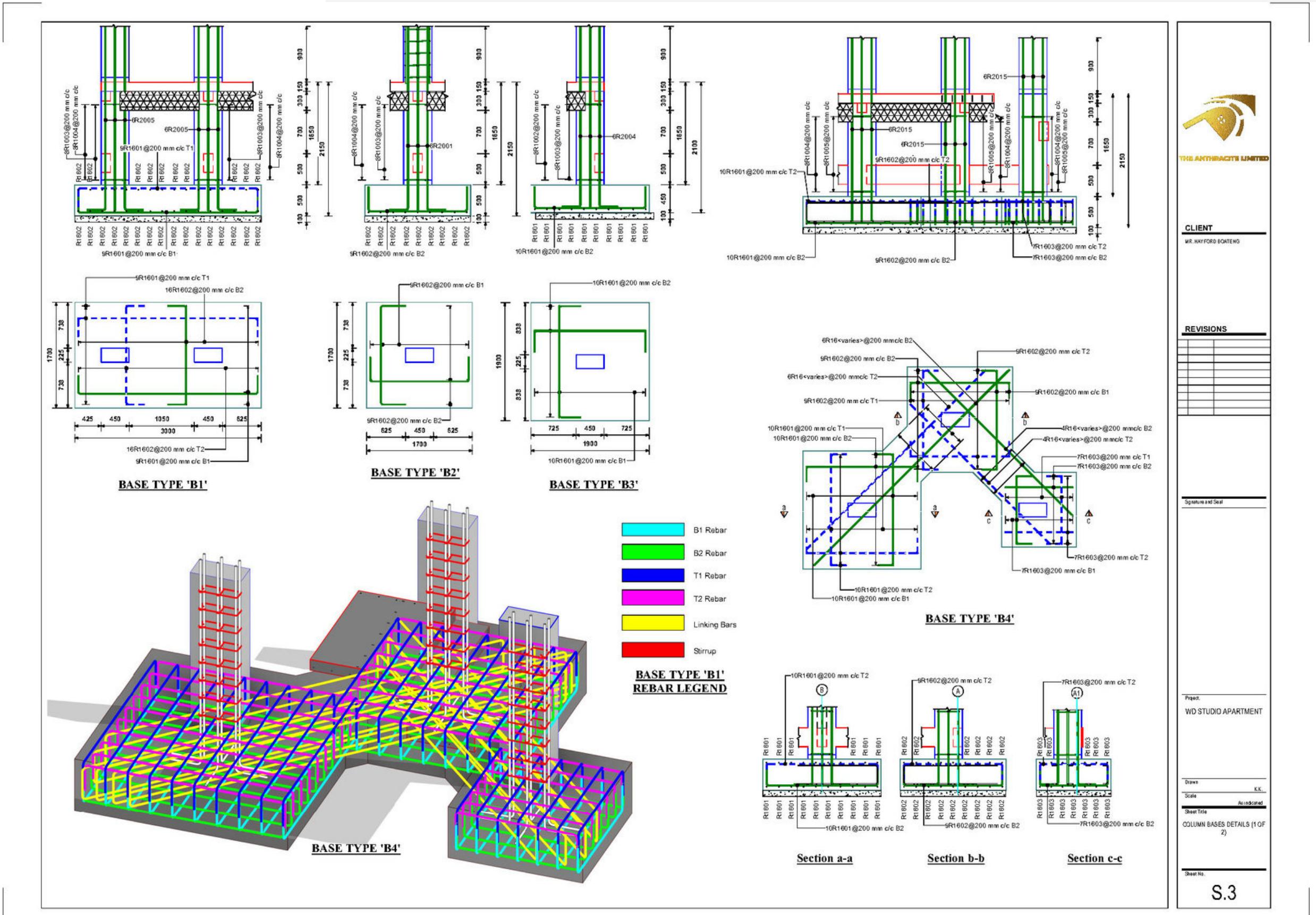
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## WD STUDIO APARTMENT - THE ANTHRACITE LTD.



BUILDING COLUMN BASE  
DETAILS MADE IN AUTODESK  
REVIT

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# **GRADUATE STRUCTURAL ENGINEER TRAINEE | K.N.U.S.T.**



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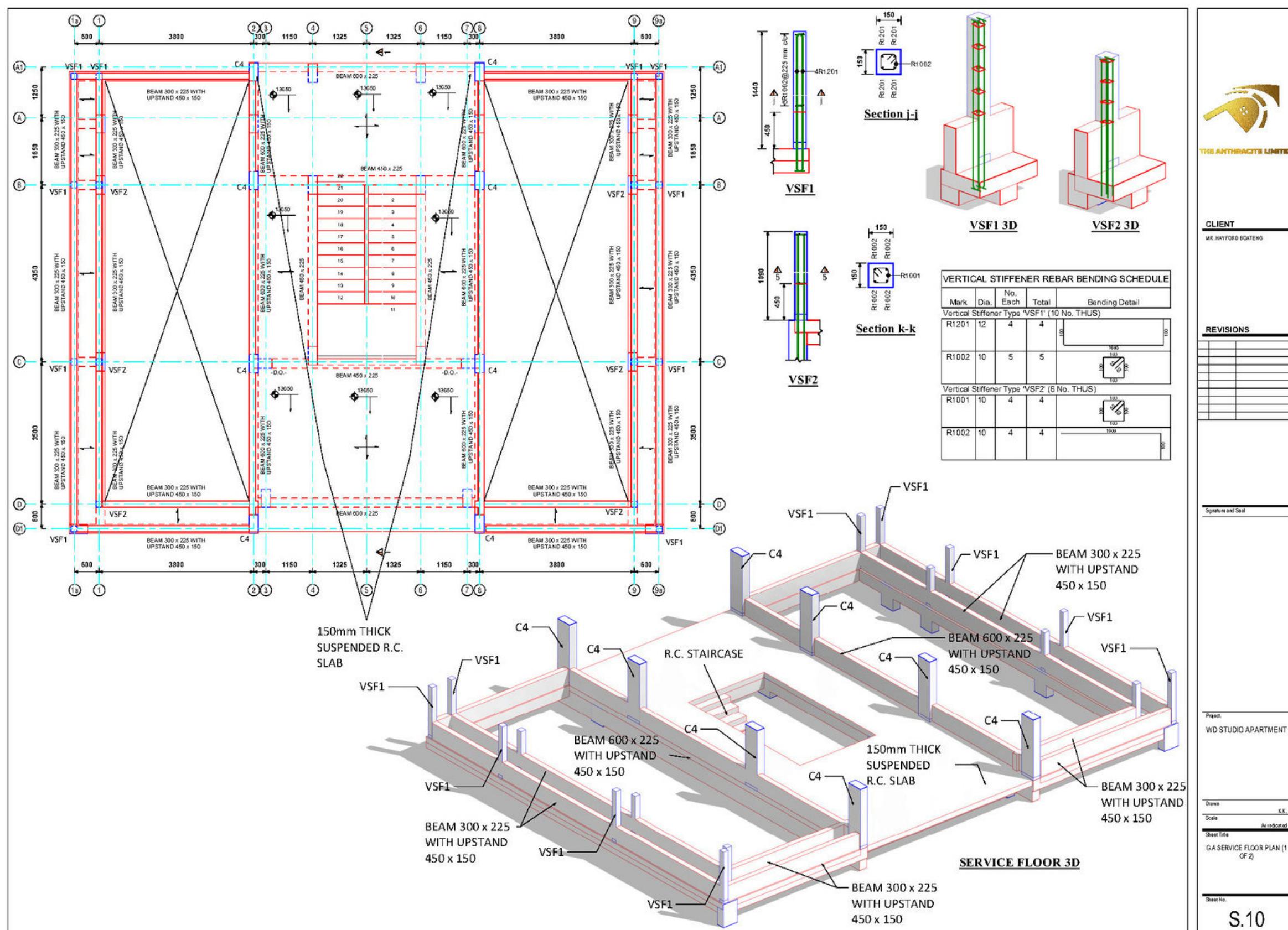


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# WD STUDIO APARTMENT - THE ANTHRACITE LTD.



# **SAMPLE BUILDING GENERAL ARRANGEMENT MADE IN AUTODESK REVIT**

# KWABENA KISSIEDU

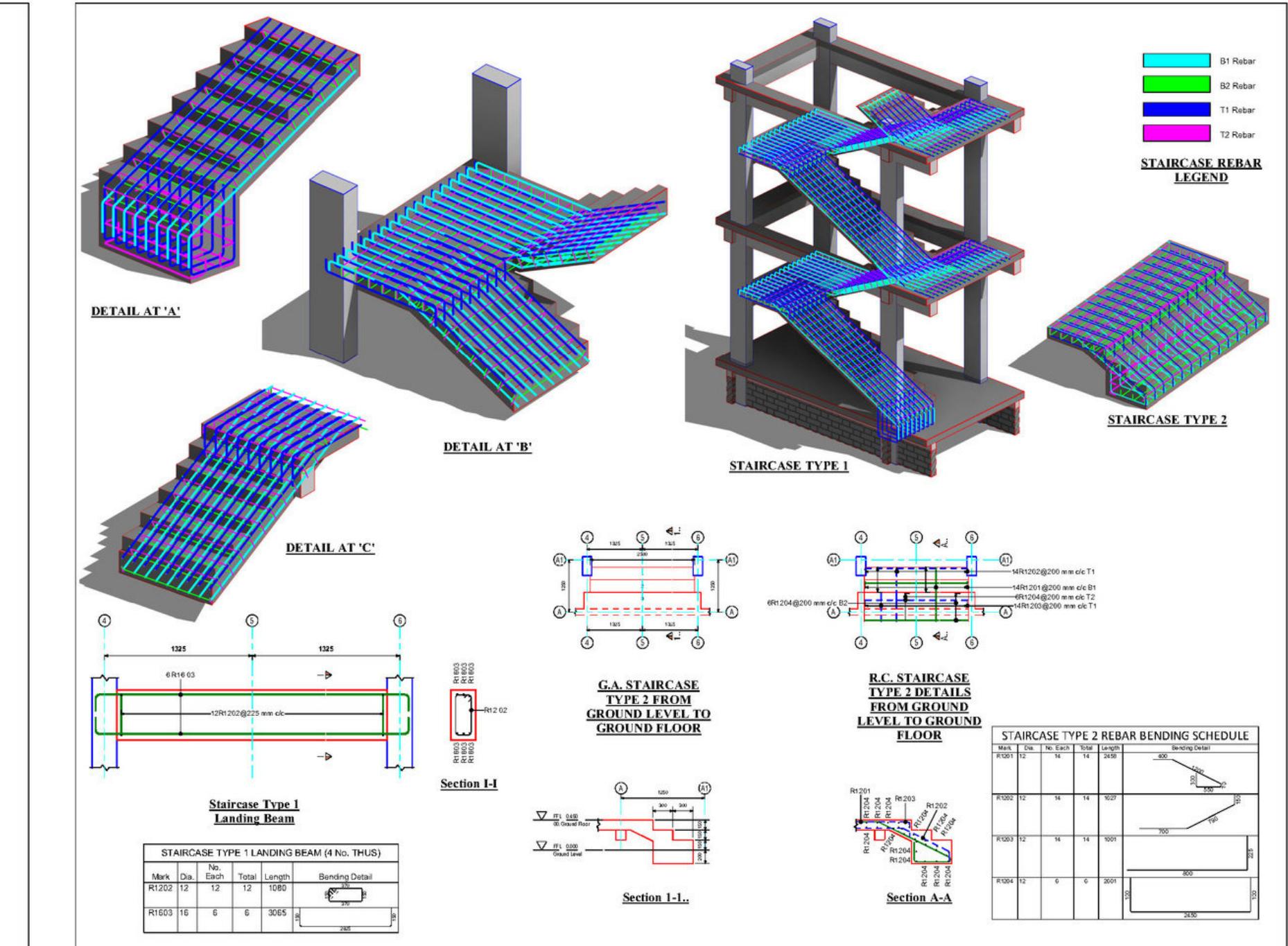
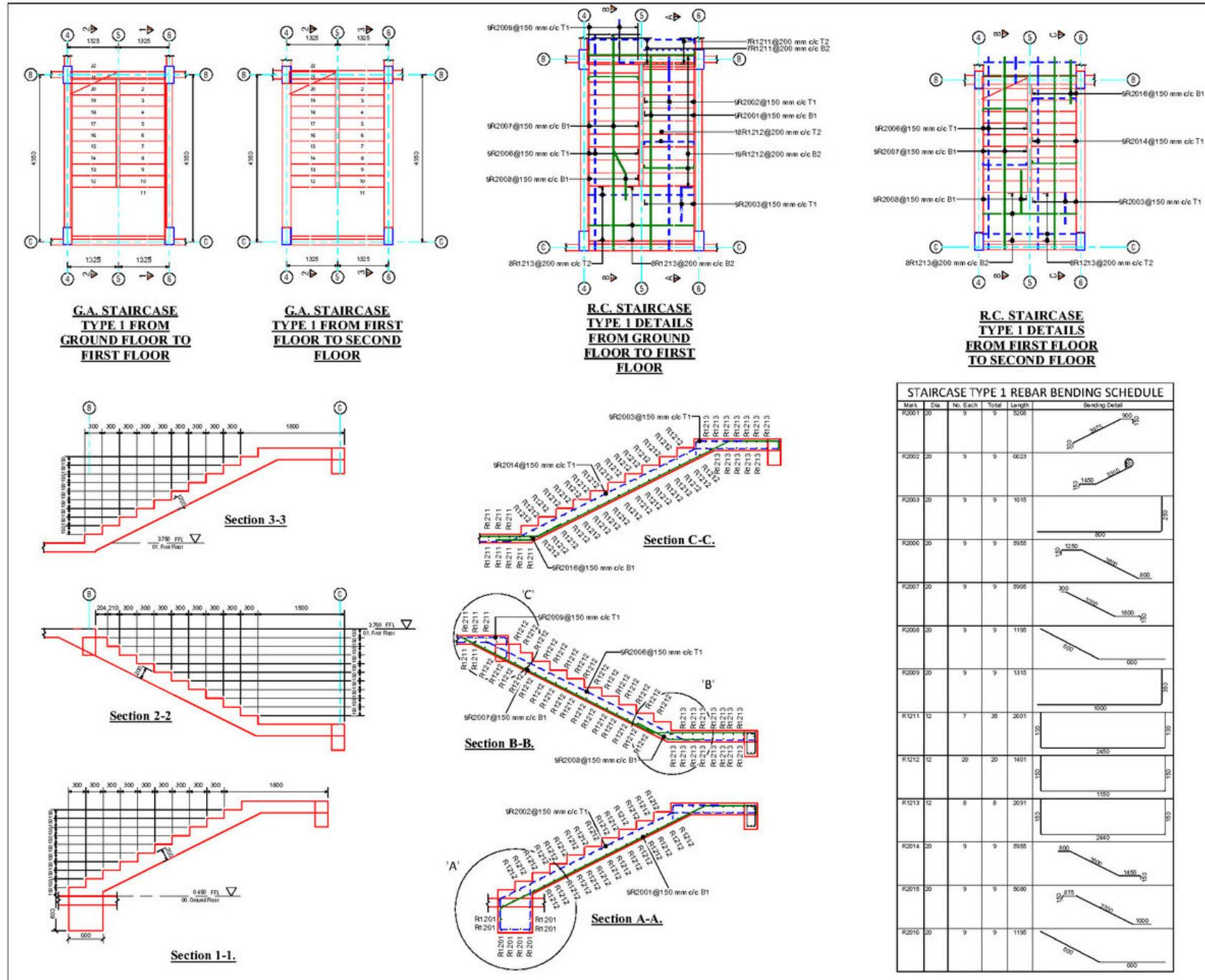
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## WD STUDIO APARTMENT - THE ANTHRACITE LTD.



BUILDING STAIRCASE DETAILS MADE IN AUTODESK REVIT

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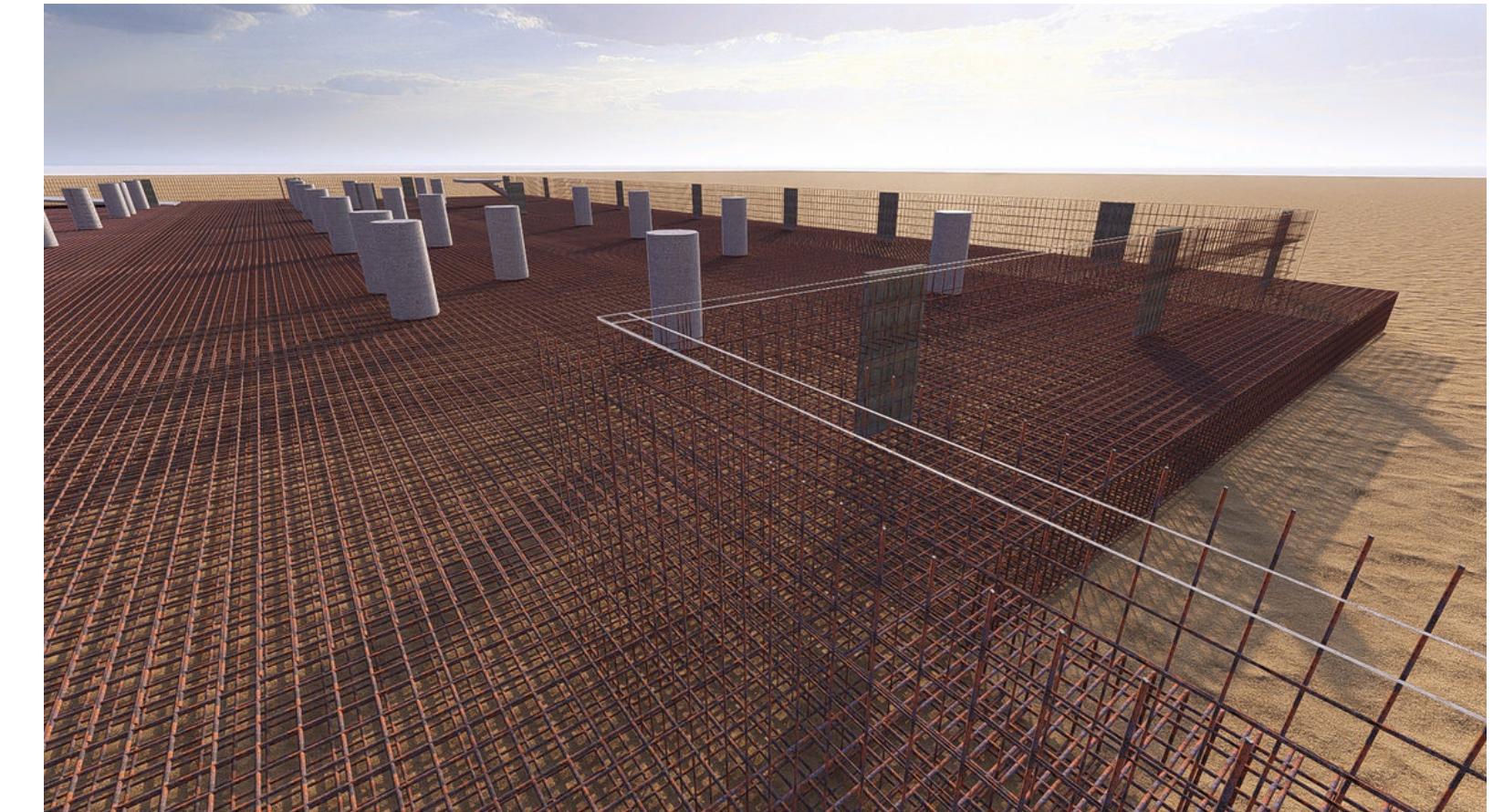
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## ZENKAWA HOSPITALS MAIN BUILDING - EKODEK ENGINEERING & CONSTRUCTION



### Tasks

- Analyzed and detailed the building's raft foundation in **Autodesk Revit**.
- Analyzed and detailed the building's retaining walls in **Autodesk Revit**.
- Prepared detailed structural drawings for construction using **Autodesk Revit**.
- Rendered cover image and images of reinforcement using **Lumion**.

# KWABENA KISSIEDU

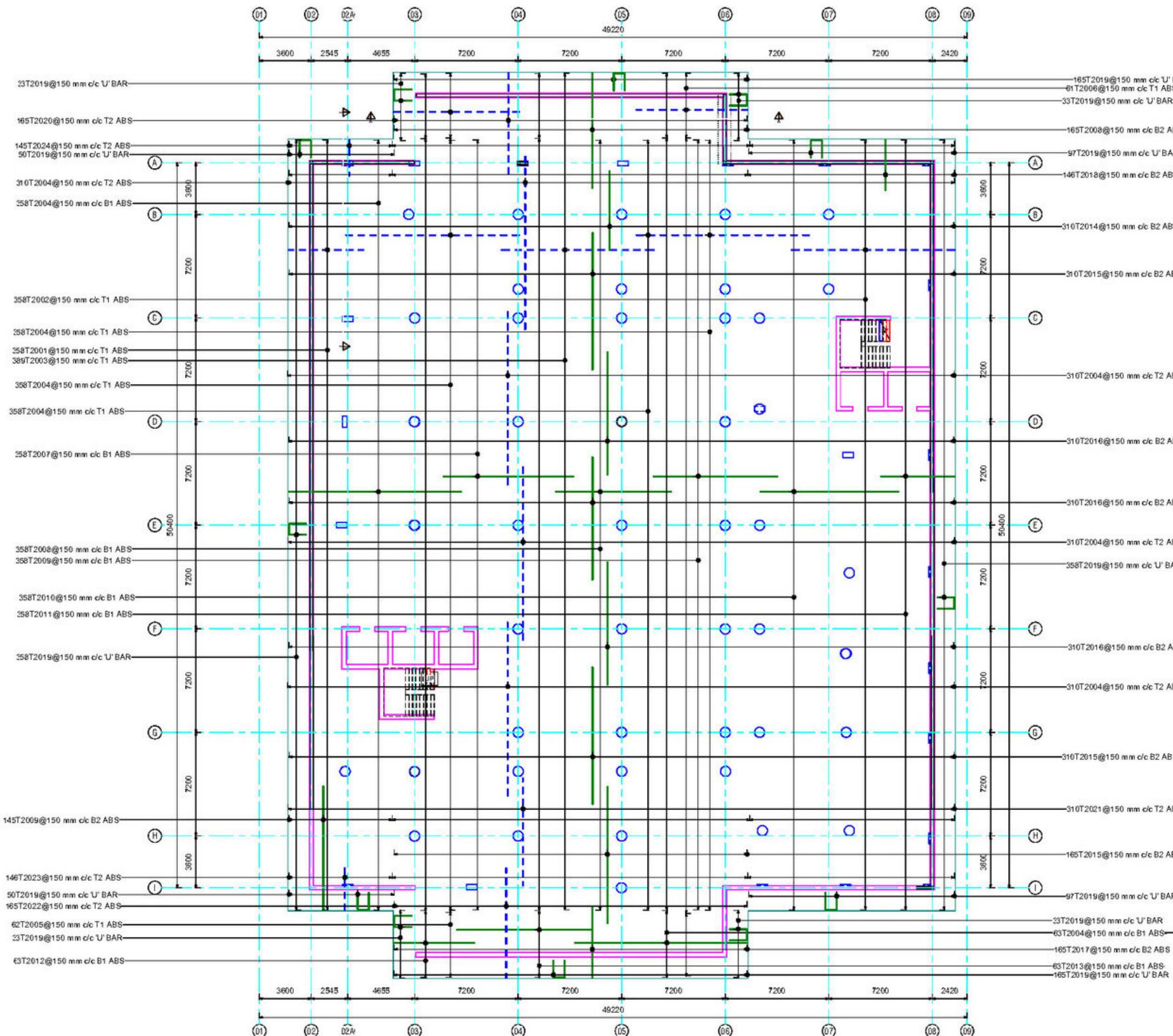
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## ZENKAWA HOSPITALS MAIN BUILDING - EKODEK ENGINEERING & CONSTRUCTION



RAFT FOUNDATION  
REINFORCEMENT DETAILS  
MADE IN AUTODESK REVIT

# KWABENA KISSIEDU

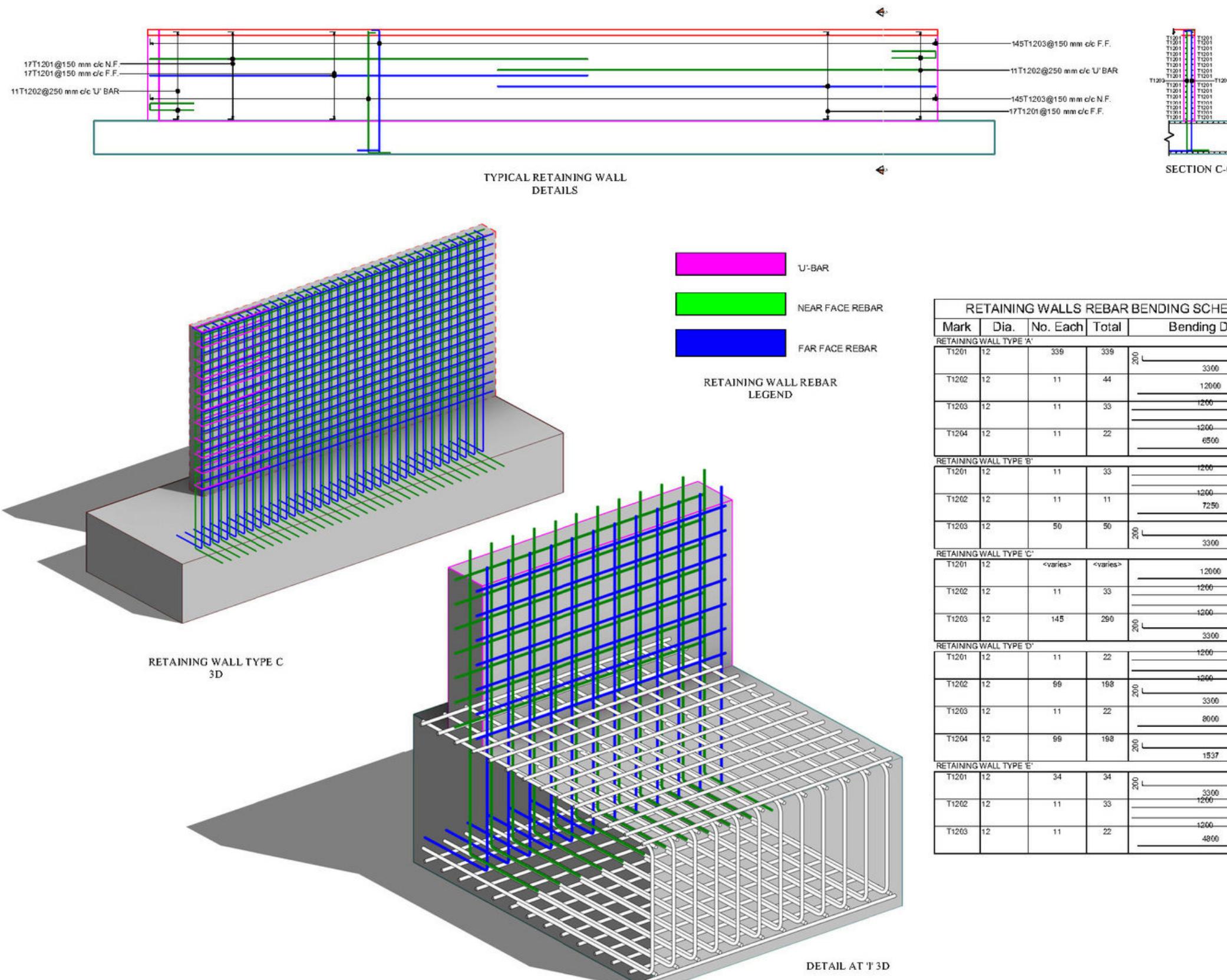
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## ZENKAWA HOSPITALS MAIN BUILDING - EKODEK ENGINEERING & CONSTRUCTION



**TYPICAL RETAINING WALL DETAILS FOR THE BUILDING  
DETAILED IN AUTODESK REVIT**

Mark	Dia.	No. Each	Total	Bending Detail
RETAINING WALL TYPE 'A'				
T1201	12	339	339	200 3300 600
T1202	12	11	44	12000
T1203	12	11	33	1200 200
T1204	12	11	22	1200 6500
RETAINING WALL TYPE 'B'				
T1201	12	11	33	1200 200
T1202	12	11	11	7250
T1203	12	50	50	200 3300 600
RETAINING WALL TYPE 'C'				
T1201	12	<varies>	<varies>	12000
T1202	12	11	33	1200 200
T1203	12	145	290	200 1200 3300 600
RETAINING WALL TYPE 'D'				
T1201	12	11	22	1200 200
T1202	12	99	188	200 1200 3300 600
T1203	12	11	22	1200 8000
T1204	12	99	198	200 1537 600
RETAINING WALL TYPE 'E'				
T1201	12	34	34	200 3300 1200 600
T1202	12	11	33	1200 200
T1203	12	11	22	1200 4800

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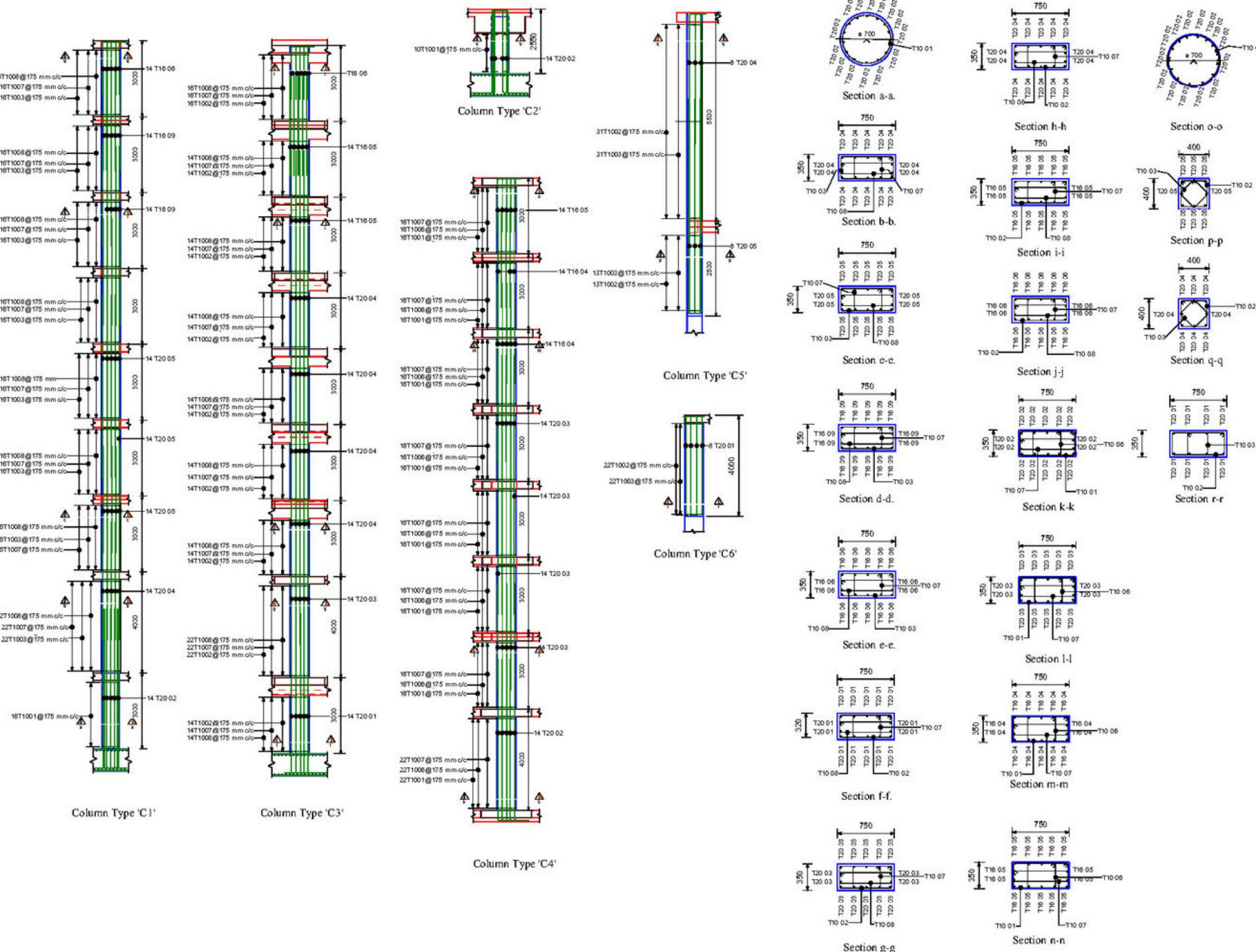
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## ZENKAWA HOSPITALS MAIN BUILDING - EKODEK ENGINEERING & CONSTRUCTION



COLUMN REINFORCEMENT  
DETAILS FOR THE BUILDING  
DRAUGHTED IN AUTODESK  
REVIT

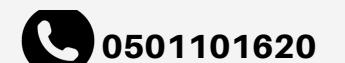
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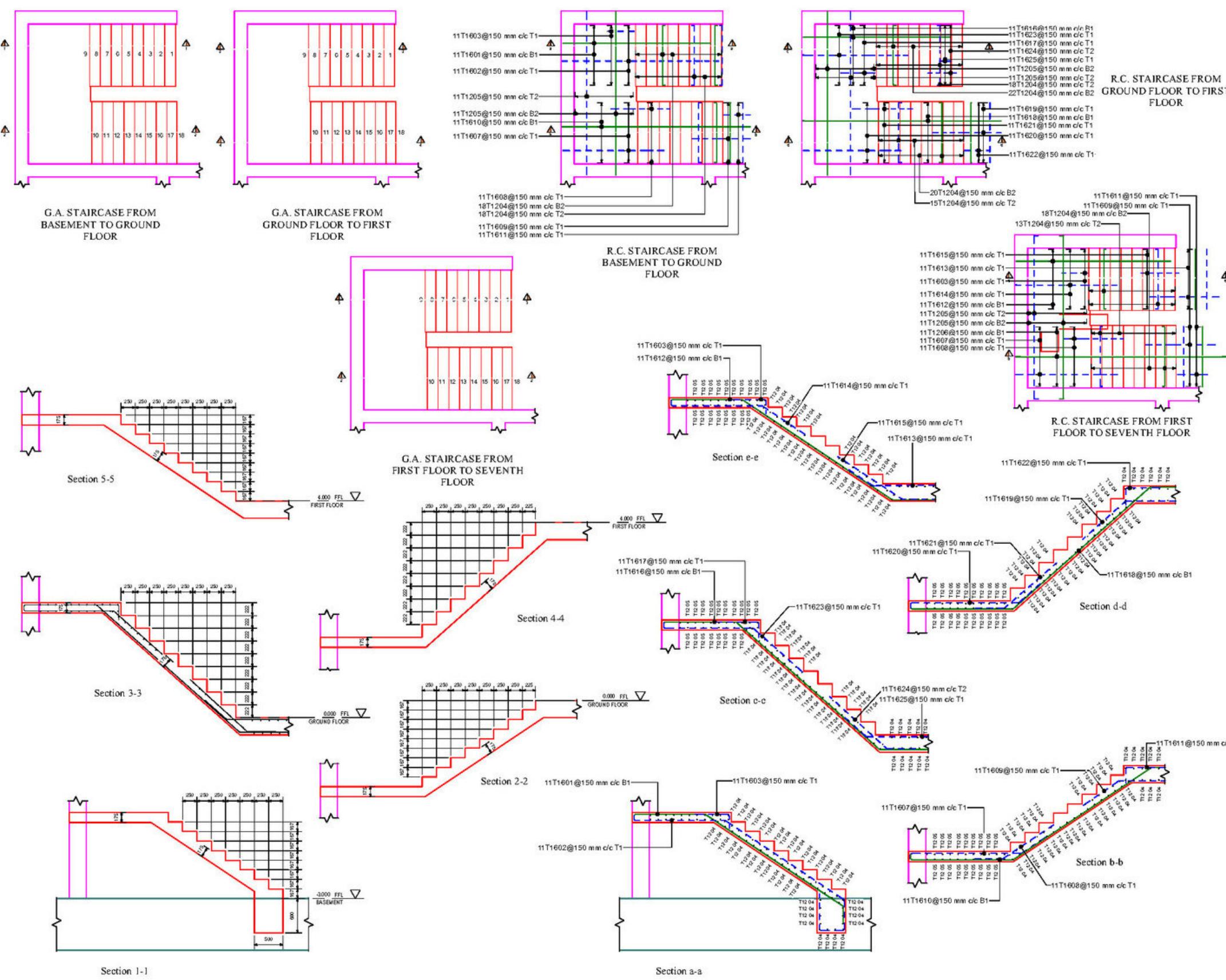


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ZENKAWA HOSPITALS MAIN BUILDING - EKODEK ENGINEERING & CONSTRUCTIONS



# STAIRCASE REINFORCEMENT DETAILS FOR THE BUILDING DRAUGHTED IN AUTODESK

# KWABENA KISSIEDU

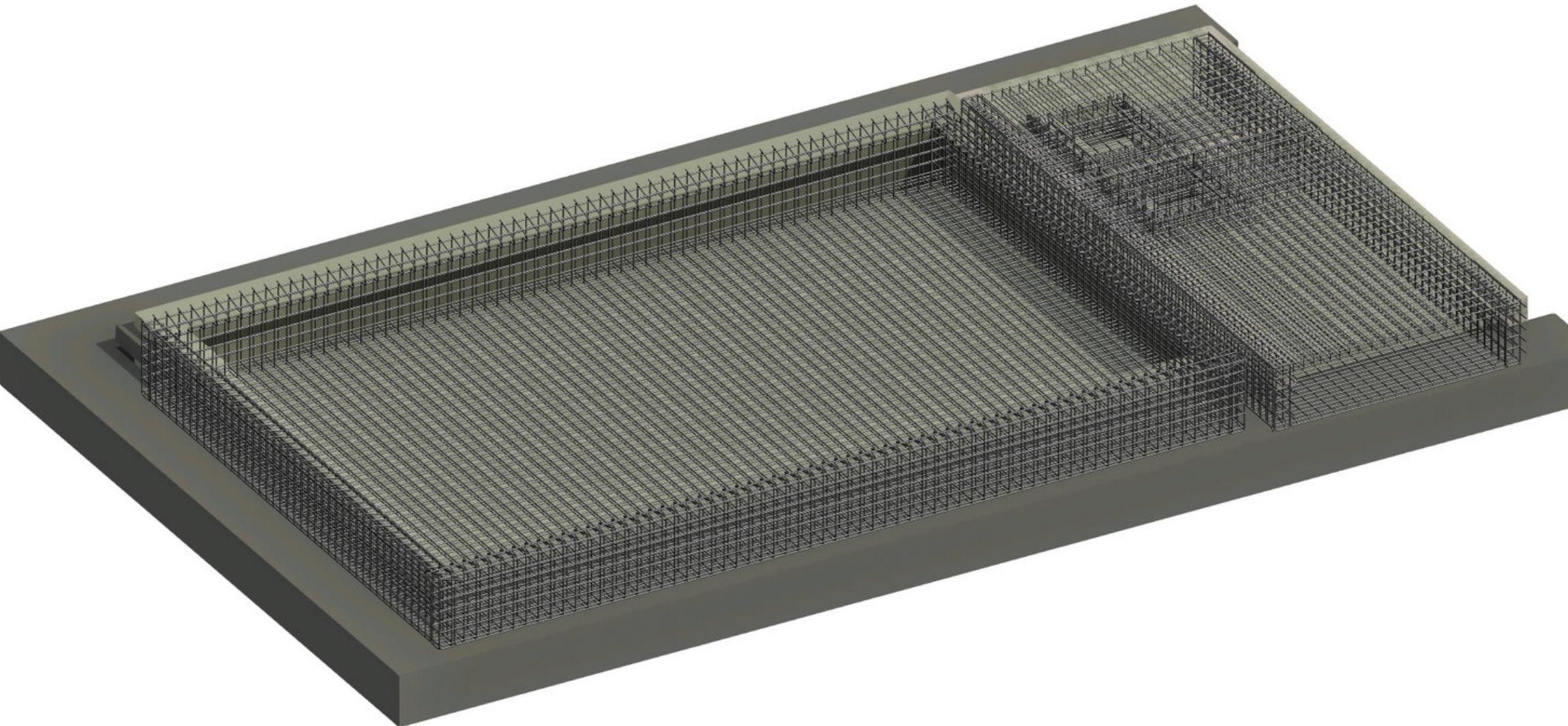
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## FOUNTAIN - BANK OF GHANA HEADQUARTERS, ACCRA



### Tasks

- Ran structural analysis and determined structural member sizes and rebar specifications.
- Designed and detailed fountain retaining wall reinforcements using **Autodesk Revit**.
- Designed and detailed fountain base reinforcements using **Autodesk Revit**.
- Provided instructions for waterproofing the structure.

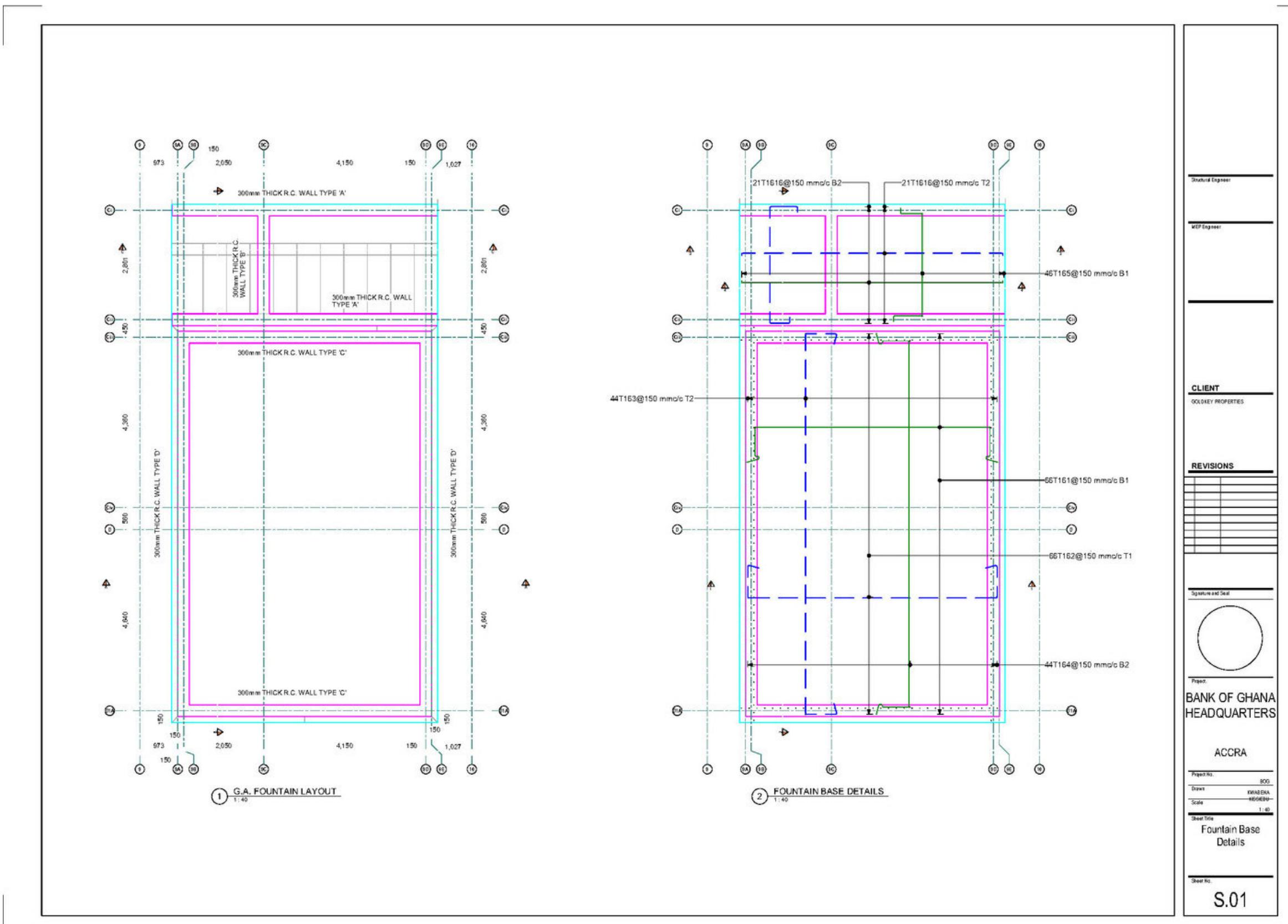
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# **GRADUATE STRUCTURAL ENGINEER TRAINEE | K.N.U.S.T.**



# **FOUNTAIN - BANK OF GHANA HEADQUARTERS, ACCRA**



# **FOUNTAIN FOUNDATION BASE DETAILS DETAILED USING AUTODESK REVIT**

# KWABENA KISSIEDU

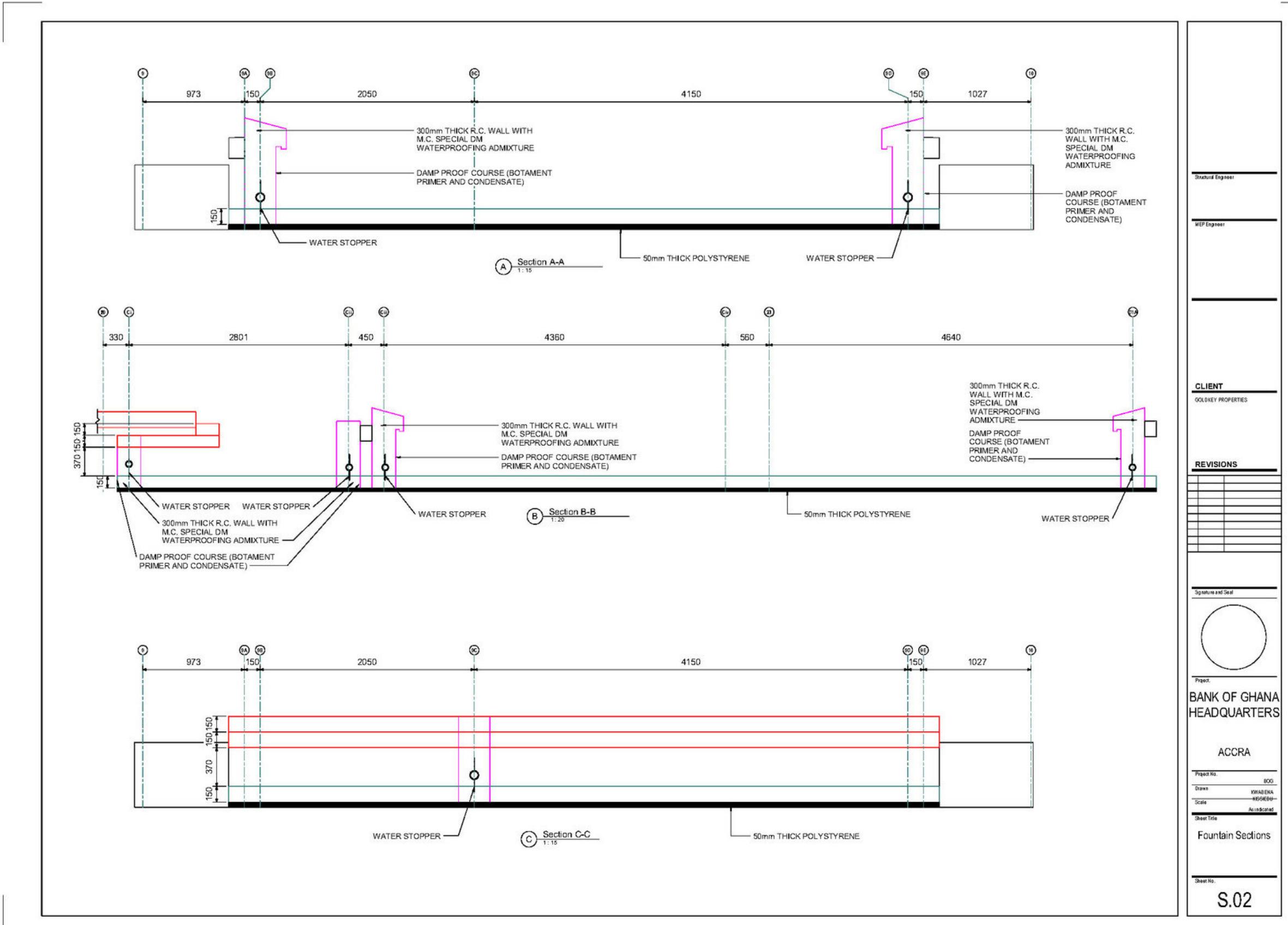
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## FOUNTAIN - BANK OF GHANA HEADQUARTERS, ACCRA



FOUNTAIN SECTIONS DETAILED  
USING AUTODESK REVIT

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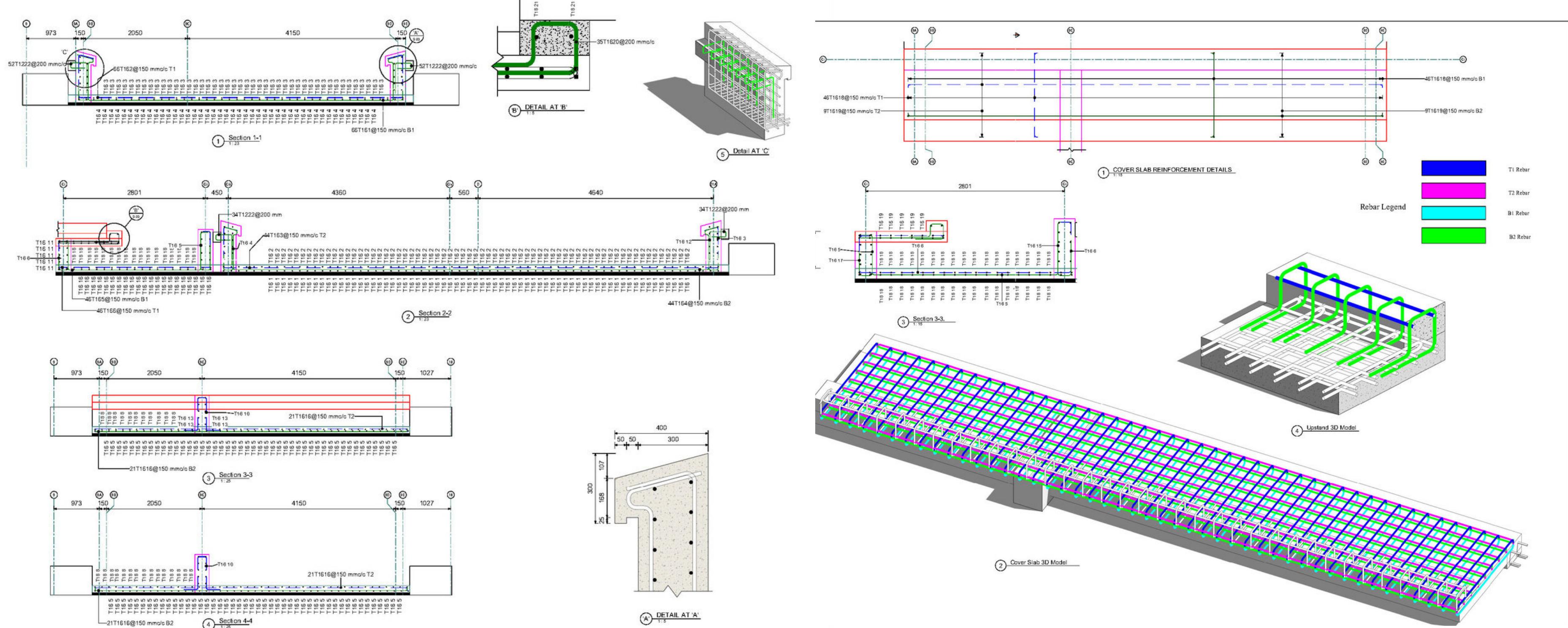
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## **FOUNTAIN - BANK OF GHANA HEADQUARTERS, ACCRA**



# FOUNTAIN SECTIONAL DETAILS AND COVER SLAB DETAILS MADE USING AUTODESK REVIT

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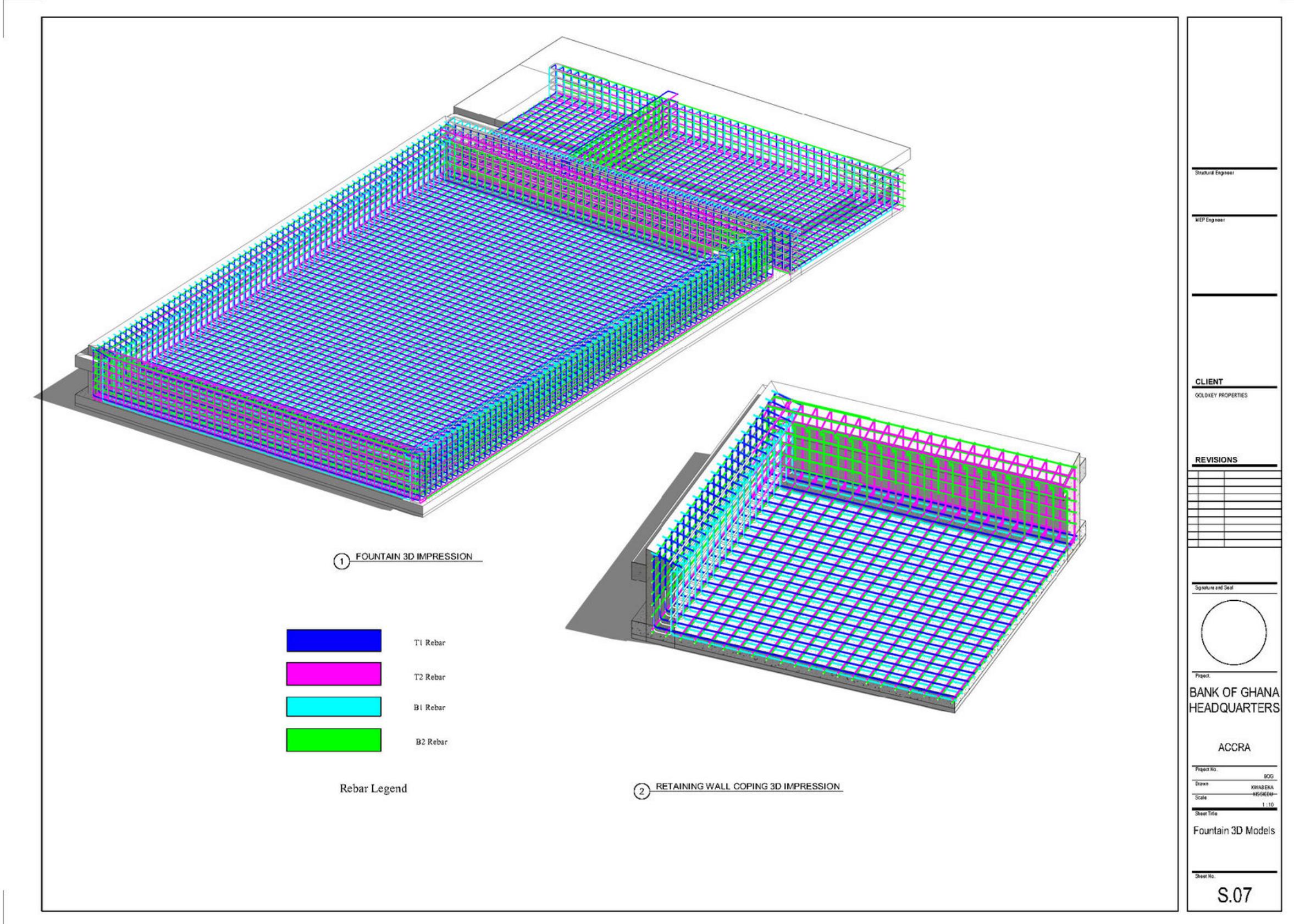
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## FOUNTAIN - BANK OF GHANA HEADQUARTERS, ACCRA



FOUNTAIN REINFORCEMENT 3D  
IMPRESSION MADE USING  
AUTODESK REVIT

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## 8-STOREY HOSPITAL BUILDING - SPECTRA MEDICAL CENTER



### Tasks

- Ran structural analysis and determined structural member sizes and rebar specifications using **ProtaStructure**.
- Analyzed and detailed the building's Lower and Upper Basement raft foundation in **Autodesk Revit**.
- Analyzed and detailed selected floor flat slab reinforcement.
- Rendered cover image and images of reinforcement using **Lumion**.

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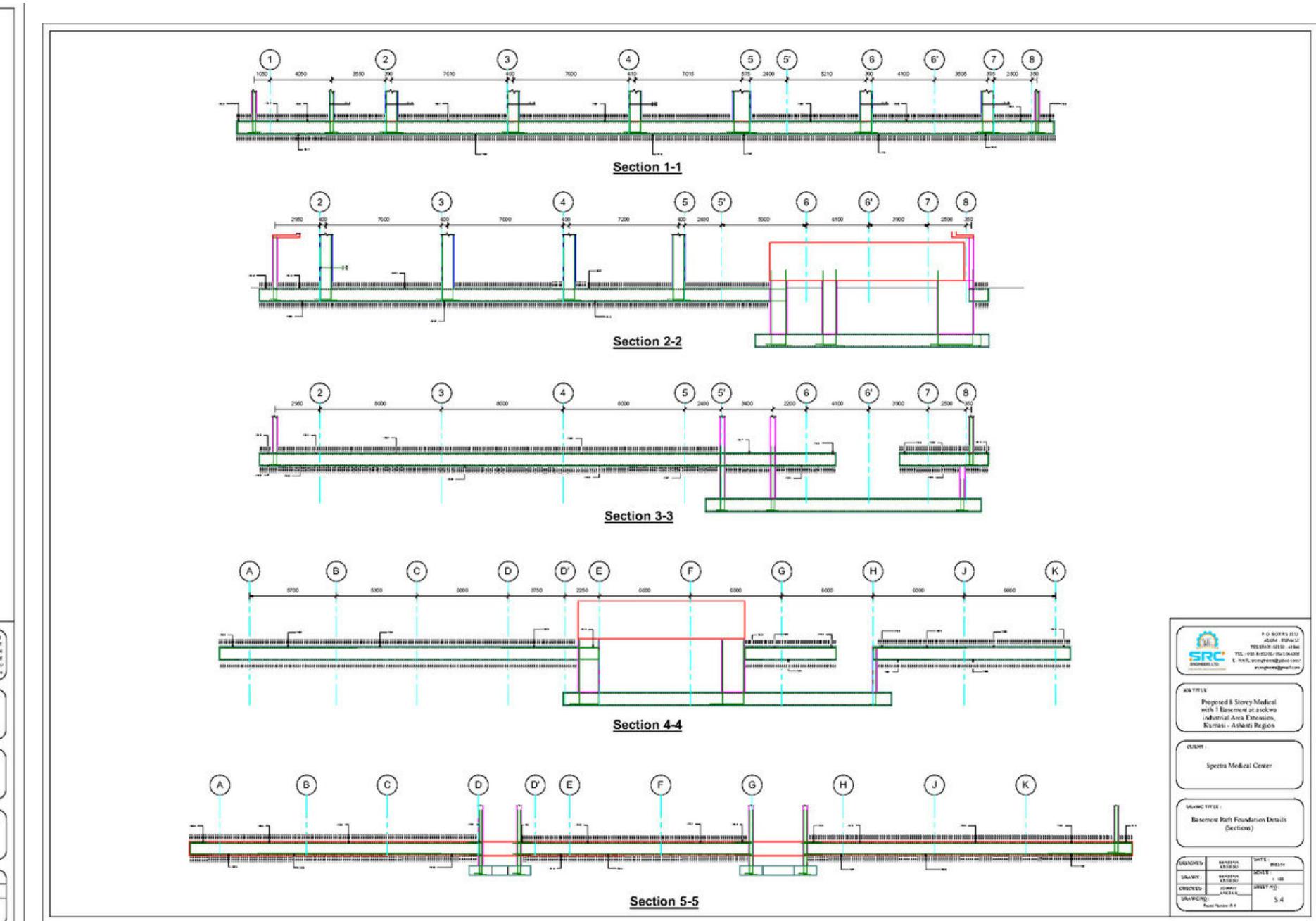
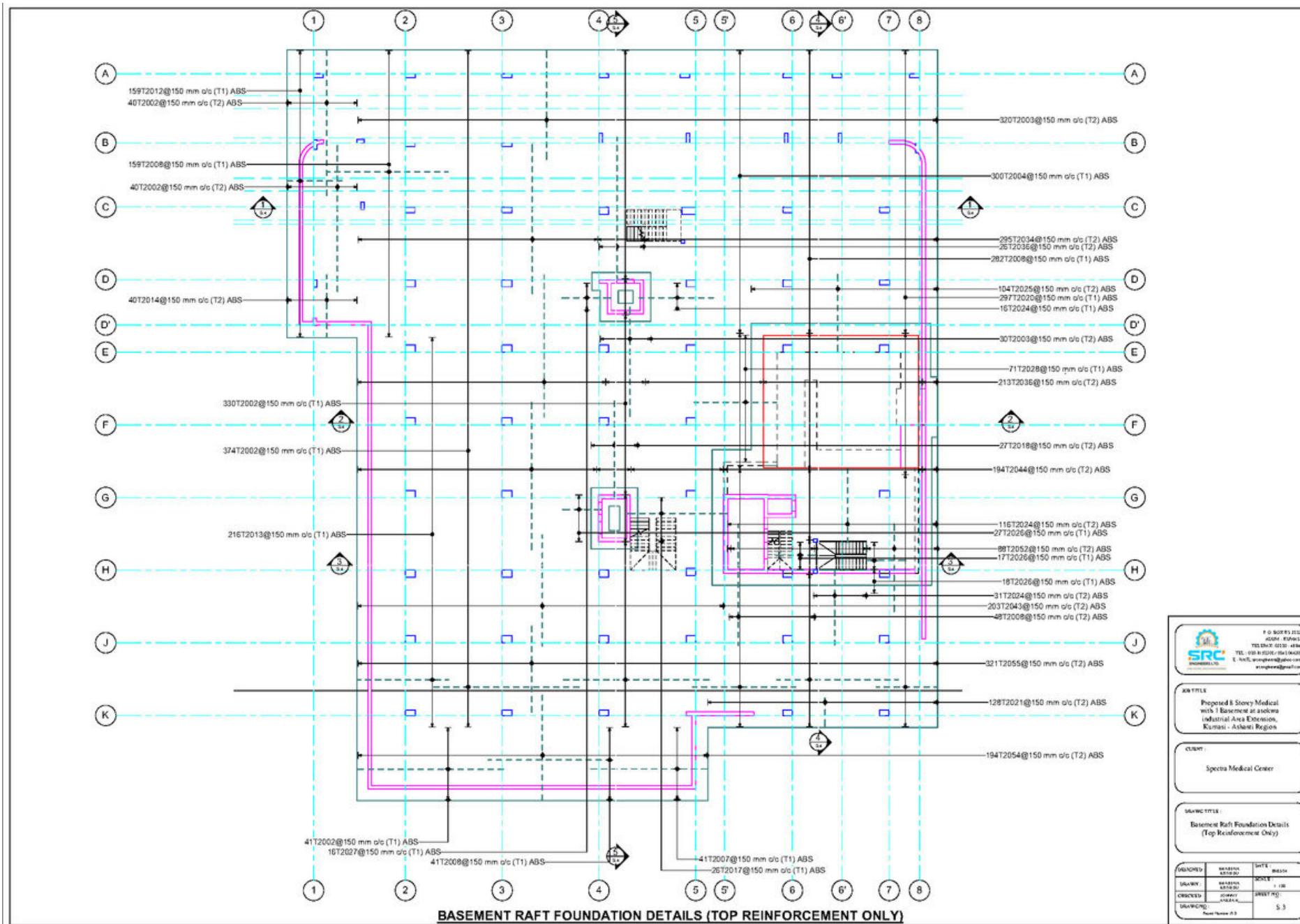
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## 8-STOREY HOSPITAL BUILDING - SPECTRA MEDICAL CENTER



UPPER BASEMENT RAFT FOUNDATION TOP REINFORCEMENT DETAILS AND SECTIONS  
MADE IN AUTODESK REVIT

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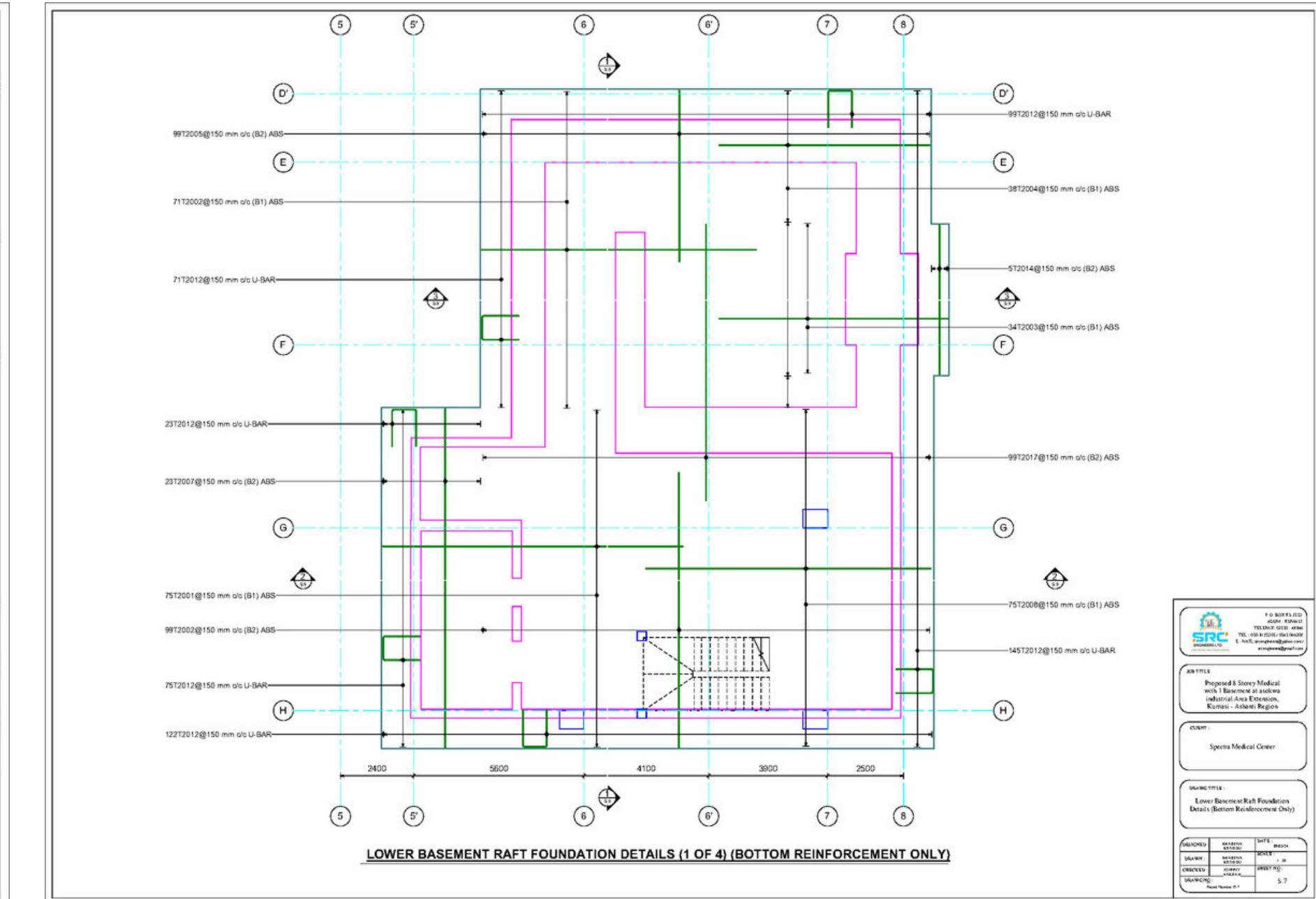
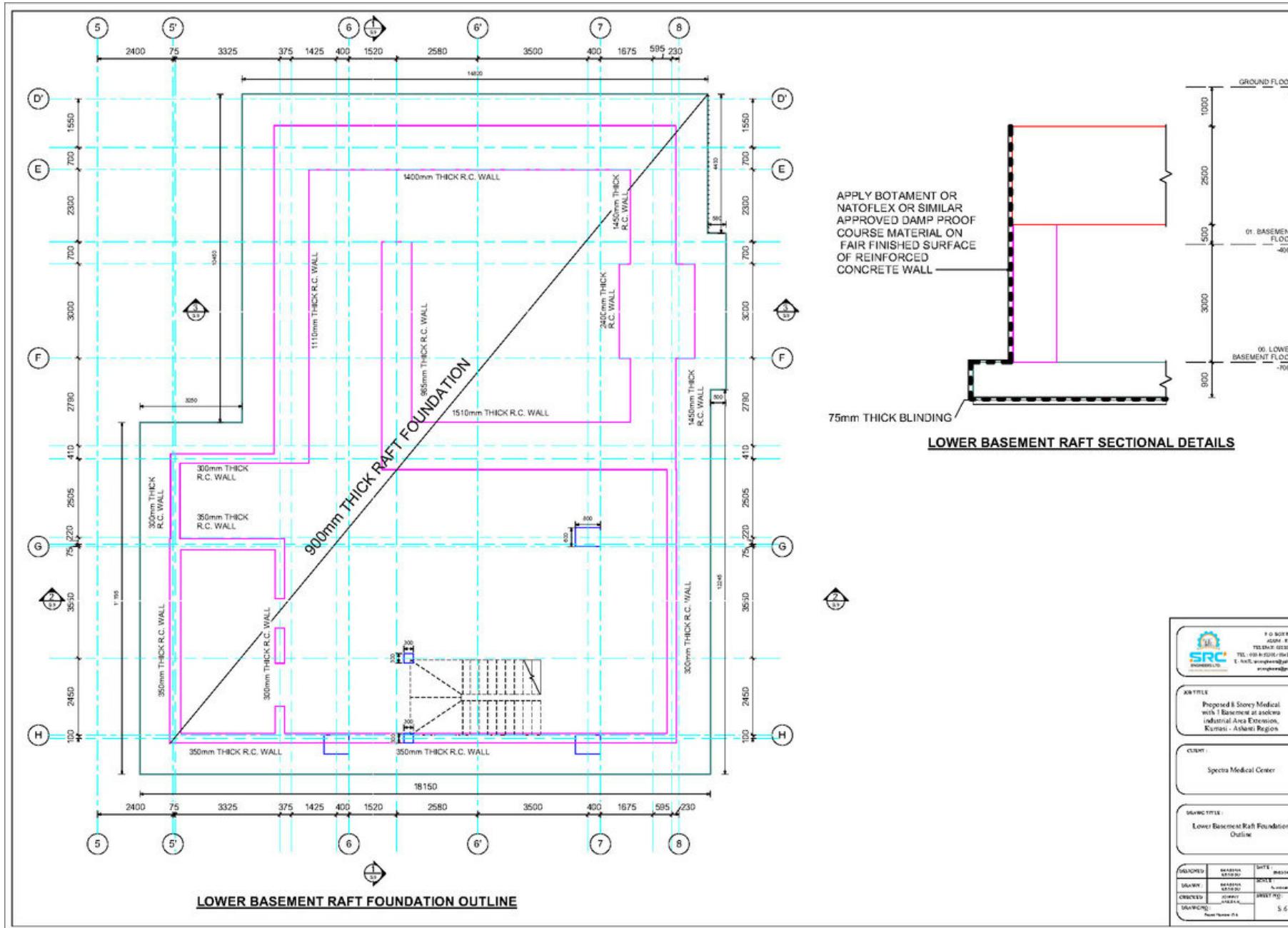
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## 8-STOREY HOSPITAL BUILDING - SPECTRA MEDICAL CENTER



LOWER BASEMENT RAFT FOUNDATION OUTLINE AND TOP REINFORCEMENT  
DETAILS MADE IN AUTODESK REVIT

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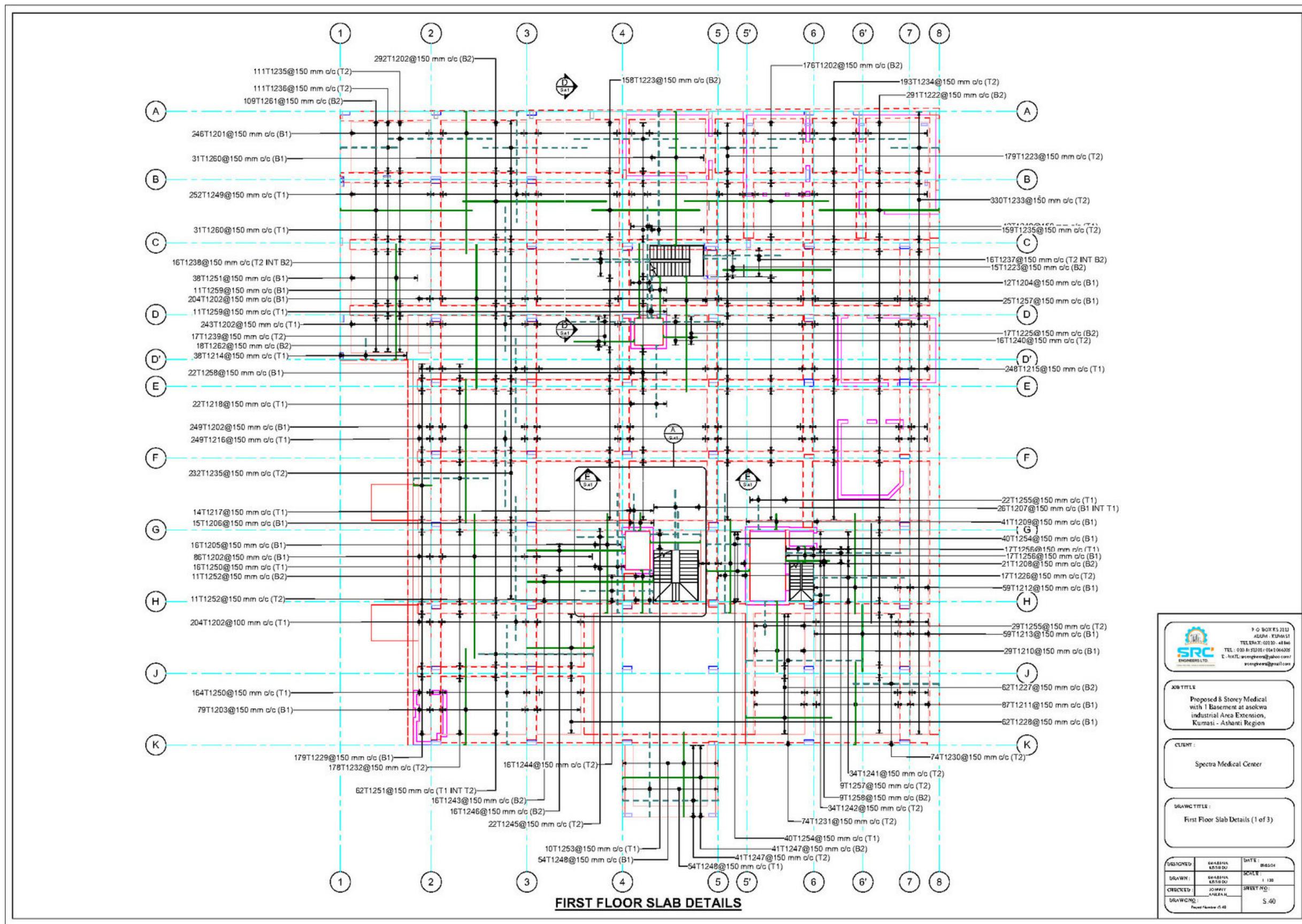
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# **8-STOREY HOSPITAL BUILDING - SPECTRA MEDICAL CENTER**



# FIRST FLOOR FLAT SLAB DETAILS

## MADE IN AUTODESK REVIT

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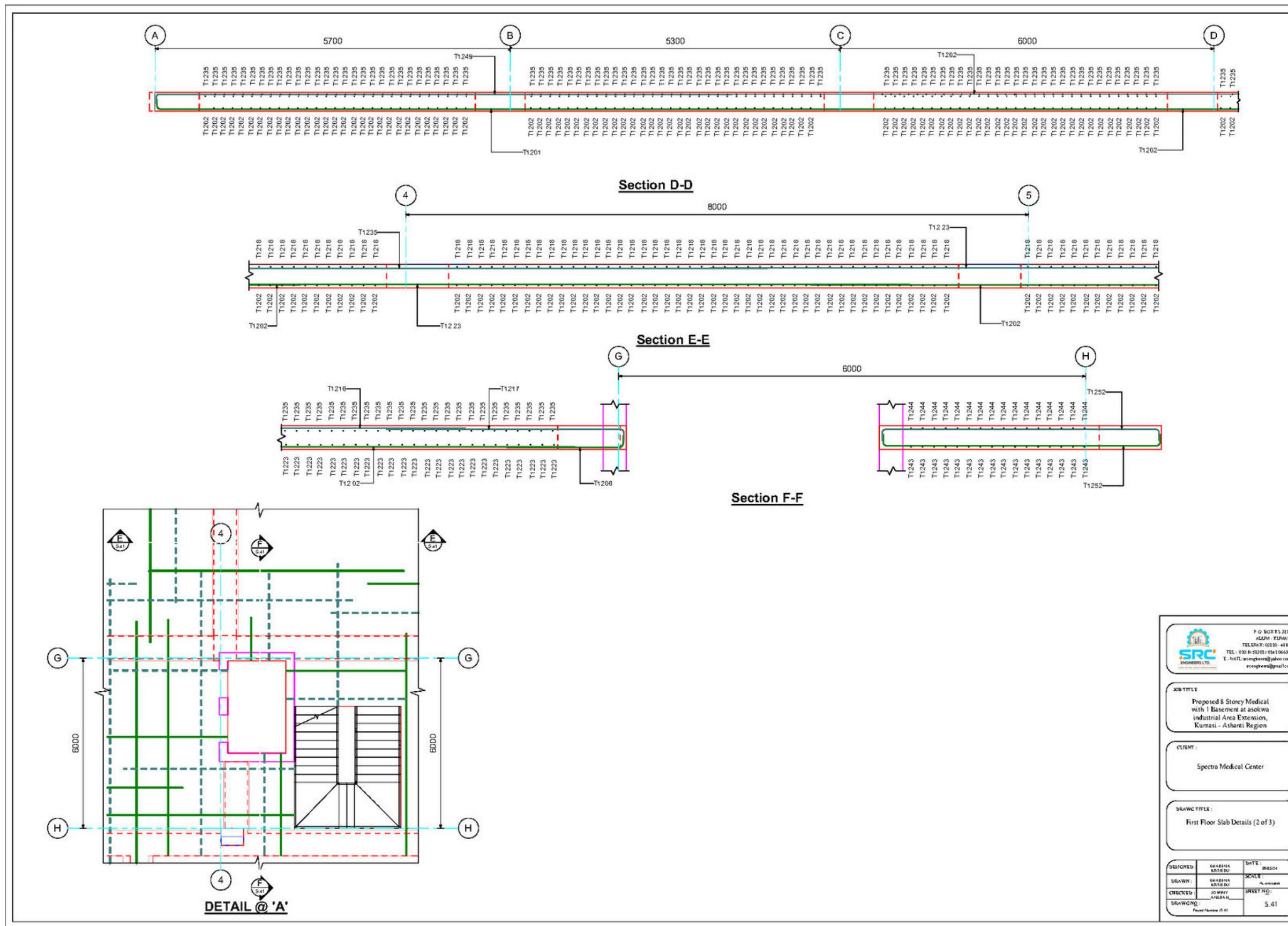
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## **8-STORY HOSPITAL BUILDING - SPECTRA MEDICAL CENTER**



# FIRST FLOOR FLAT SLAB SECTIONS MADE IN AUTODESK REVIT

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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION



### Tasks

- Ran structural analysis and determined structural member sizes and rebar specifications using **ProtaStructure**.
- Analyzed and detailed the building's column bases in **Autodesk Revit**.
- Analyzed and detailed column reinforcements in **Autodesk Revit**.
- Analyzed and detailed retaining wall reinforcements in **Autodesk Revit**.
- Analyzed and detailed staircase reinforcements in **Autodesk Revit**.
- Rendered cover image and images of reinforcement using **Lumion**.

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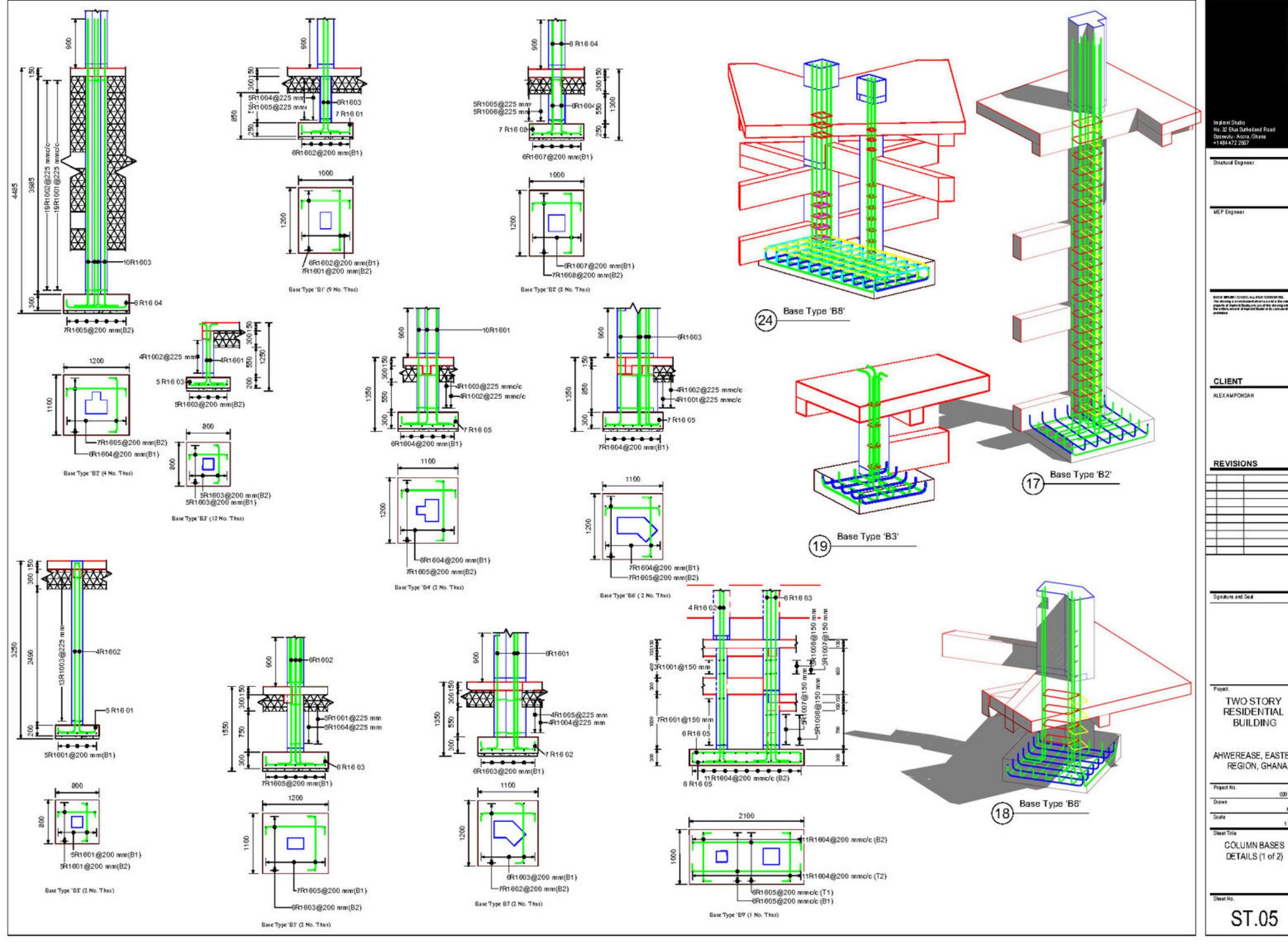
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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION



COLUMN BASES  
REINFORCEMENT DETAILS  
MADE IN AUTODESK REVIT

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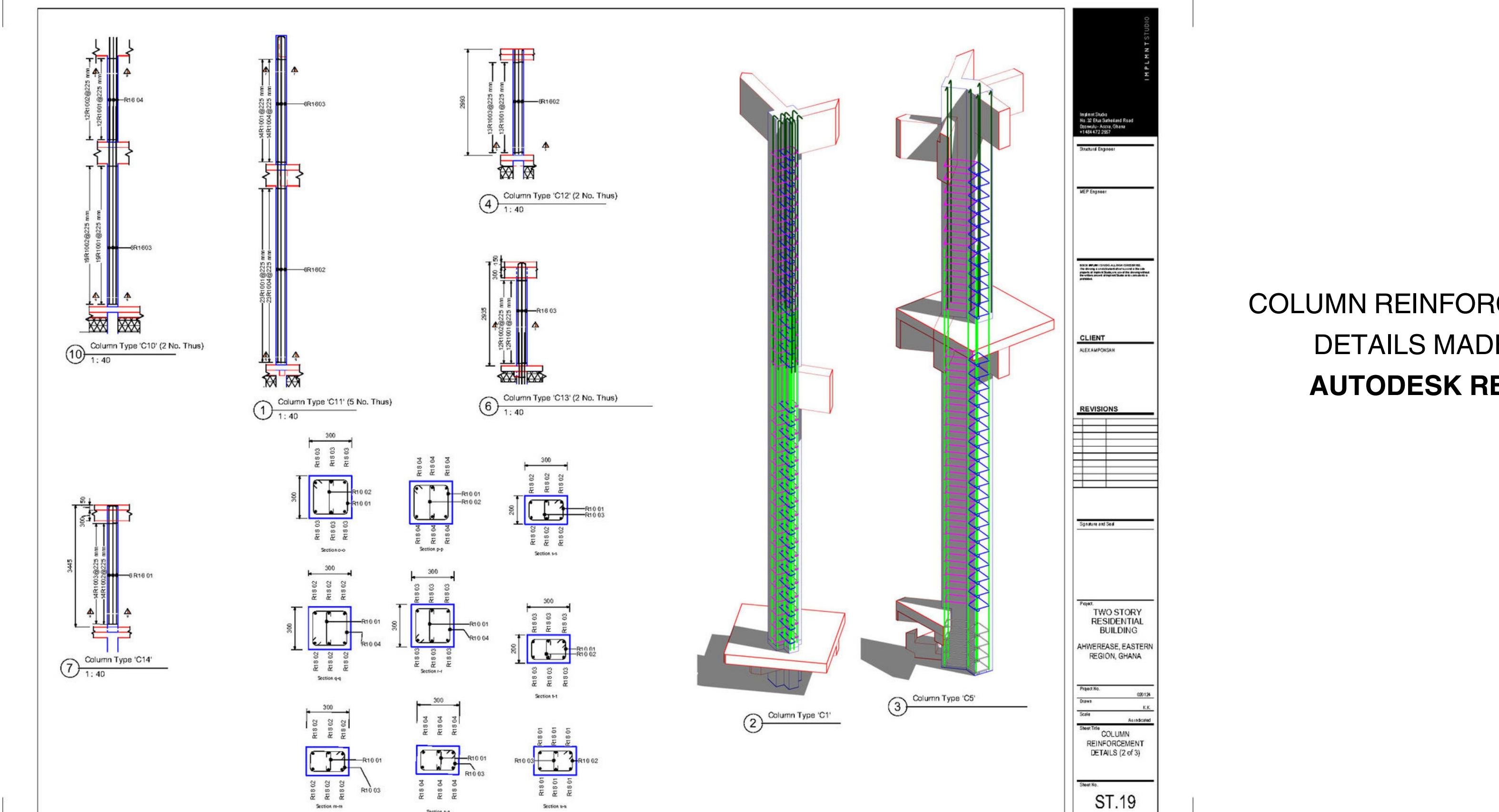
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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION



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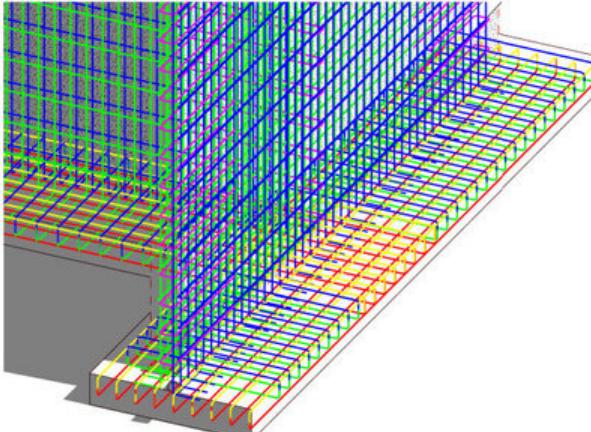
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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION

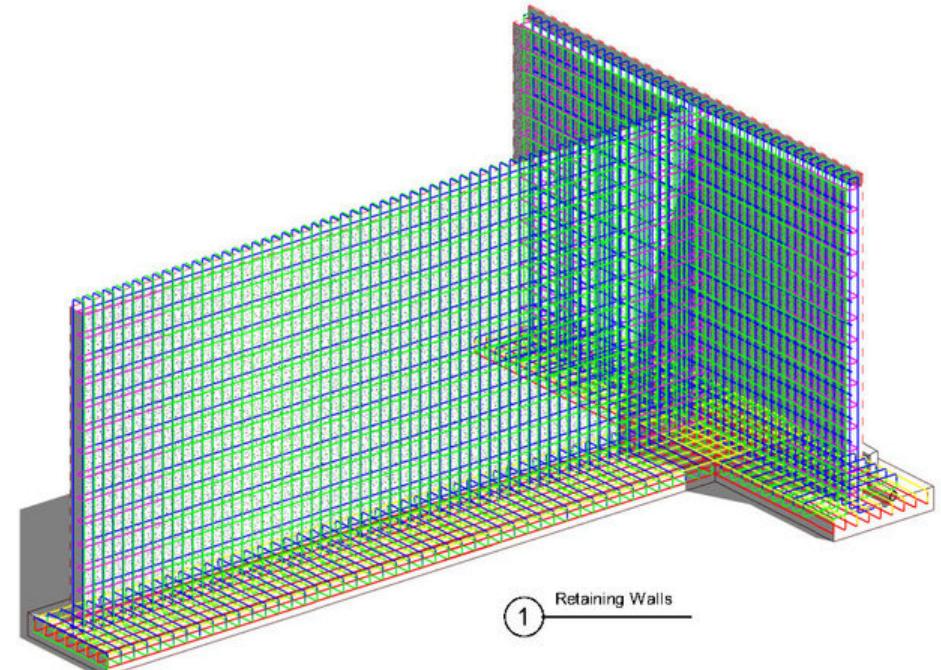
WALL BASE  
T1 Rebar  
T2 Rebar  
B1 Rebar  
B2 Rebar

WALL  
T1 Rebar  
T2 Rebar  
B1 Rebar  
B2 Rebar  
U-Bar

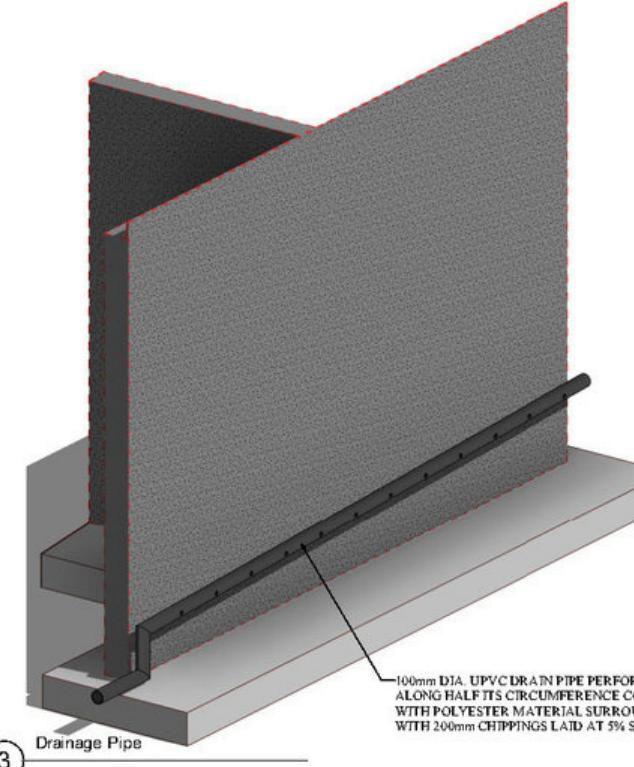
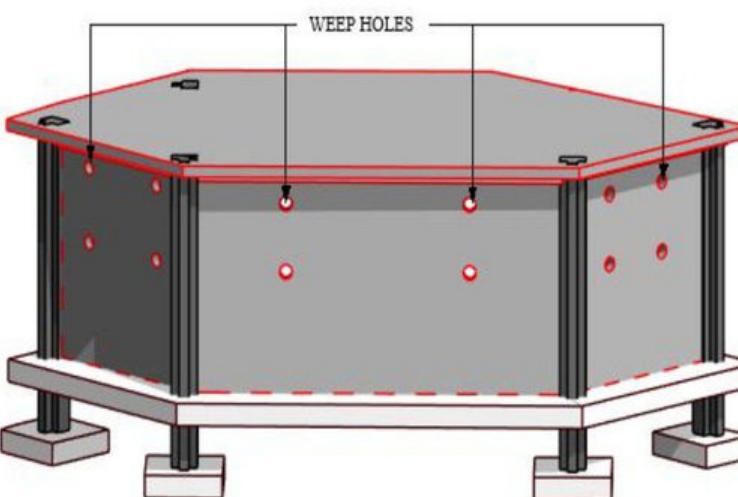
Retaining Wall Rebar Legend



② Retaining Wall Base



① Retaining Walls



③ Drainage Pipe

RETAINING WALL REBAR SCHEDULE			
Mark	Dia.	Length	Bending Detail
Retaining Wall Type A			
R1201	12	9000	9000
R1202	12	4690	4330
R1203	12	2510	1200
R1204	12	1660	1400
R1205	12	5610	5480
R1206	12	5920	5790
Retaining Wall Type B			
R1201	12	6000	6000
R1202	12	4690	4330
R1203	12	2510	1200
R1204	12	1580	1420
R1205	12	7060	6800
R1606	16	6000	6000

IMPLEMENT STUDIO  
No. 30 Blue Sutherland Road  
Odworso, Accra, Ghana  
+233 547 22957

Structural Engineer:

MEP Engineer:

Notes: All dimensions are in millimeters. The drawing is a technical document and is the sole property of Kwabena Kissiedu. Any unauthorized copying or distribution of this document is illegal.

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ALEX AMPONSAH

REVISIONS

Signature and Seal

Project:  
TWO STORY  
RESIDENTIAL  
BUILDING  
AHWEREAH, EASTERN  
REGION, GHANA

Project No.: 020124  
Drawn by: K.K.  
Scale: 1:20  
Sheet Title:  
Retaining Wall  
Details (2 of 2)  
Sheet No.:  
ST.22

RETAINING WALL 3D DETAILS  
MADE IN AUTODESK REVIT

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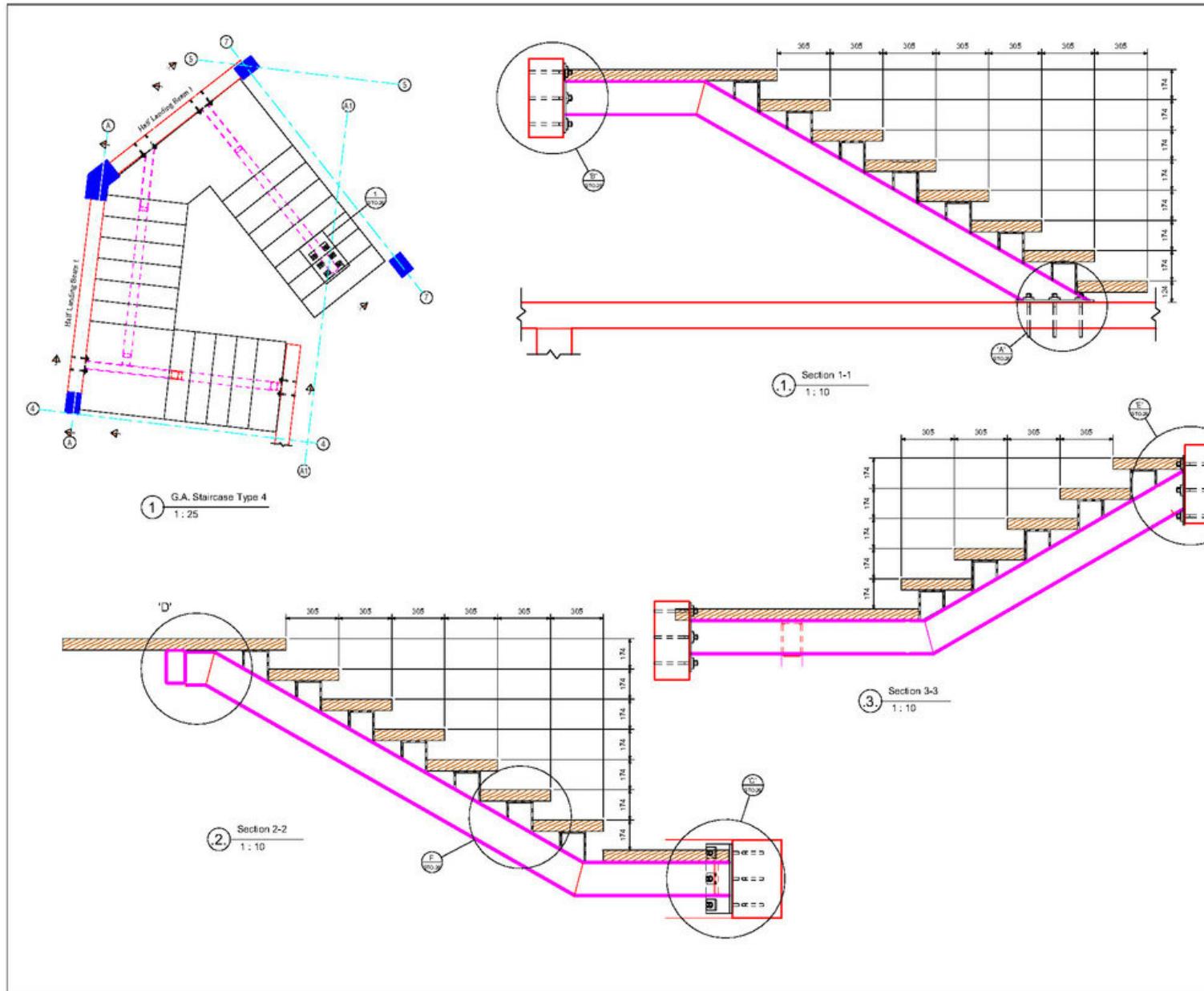
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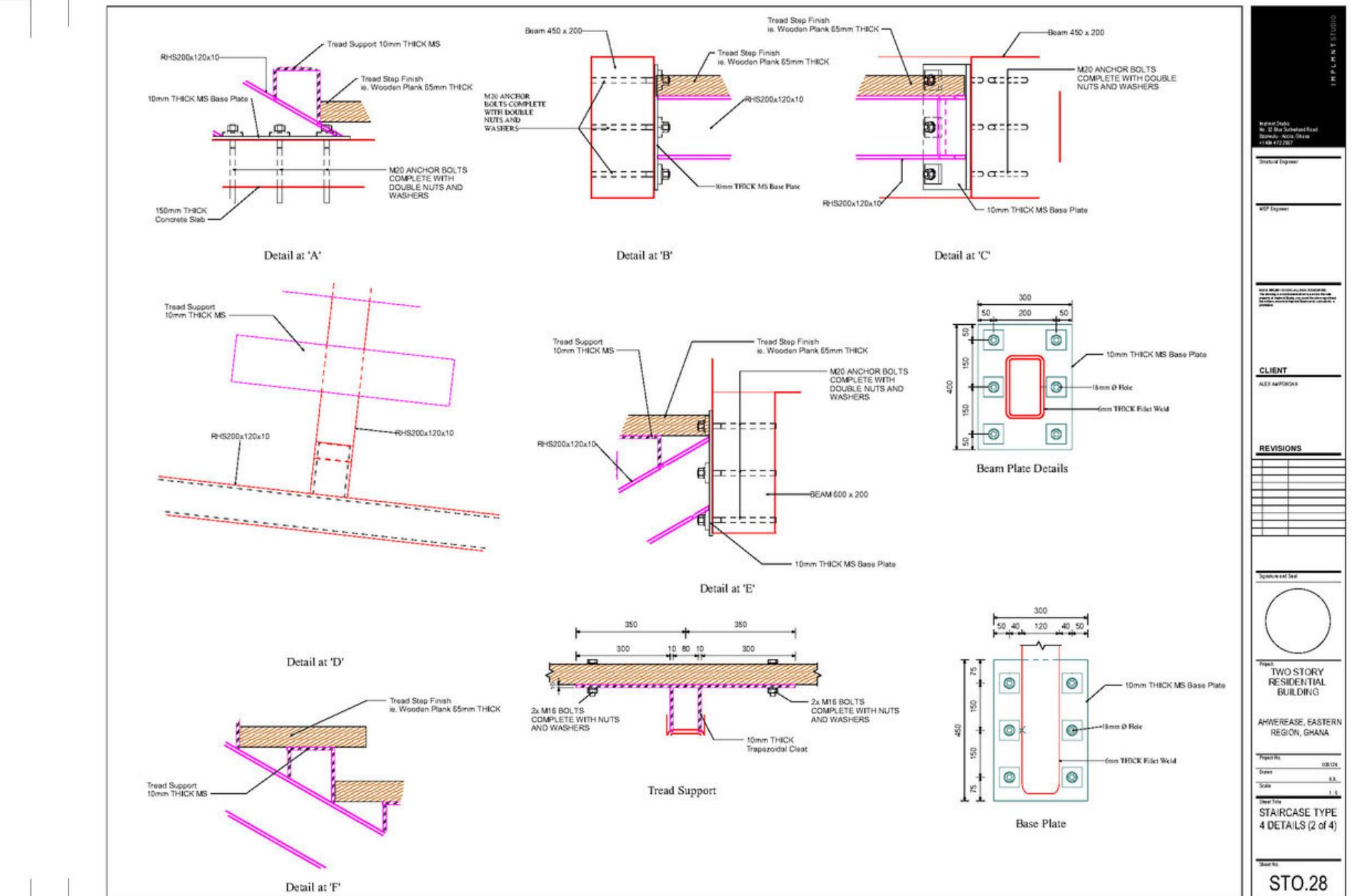
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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION



Project: TWO STORY RESIDENTIAL BUILDING  
Ahwease, Eastern Region, Ghana  
Project No.: 08.04  
Drawn: XX  
Scale: 1:10  
Sheet Title: STAIRCASE TYPE 4 DETAILS (1 of 4)  
Sheet No: STO.27



Project: TWO STORY RESIDENTIAL BUILDING  
Ahwease, Eastern Region, Ghana  
Project No.: 08.04  
Drawn: XX  
Scale: 1:10  
Sheet Title: STAIRCASE TYPE 4 DETAILS (2 of 4)  
Sheet No: STO.28

STRINGER STAIRCASE DETAILS  
MADE IN AUTODESK REVIT

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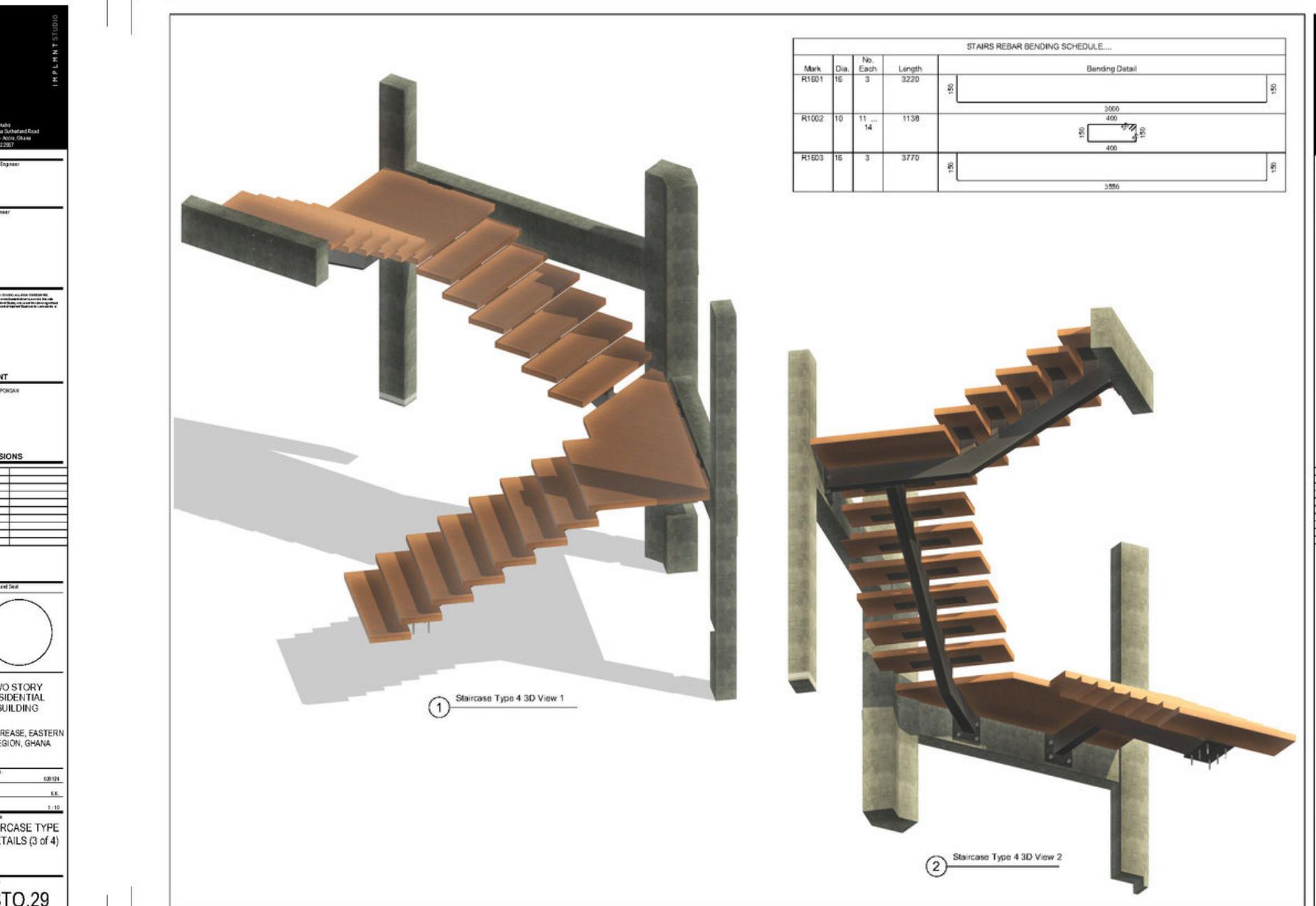
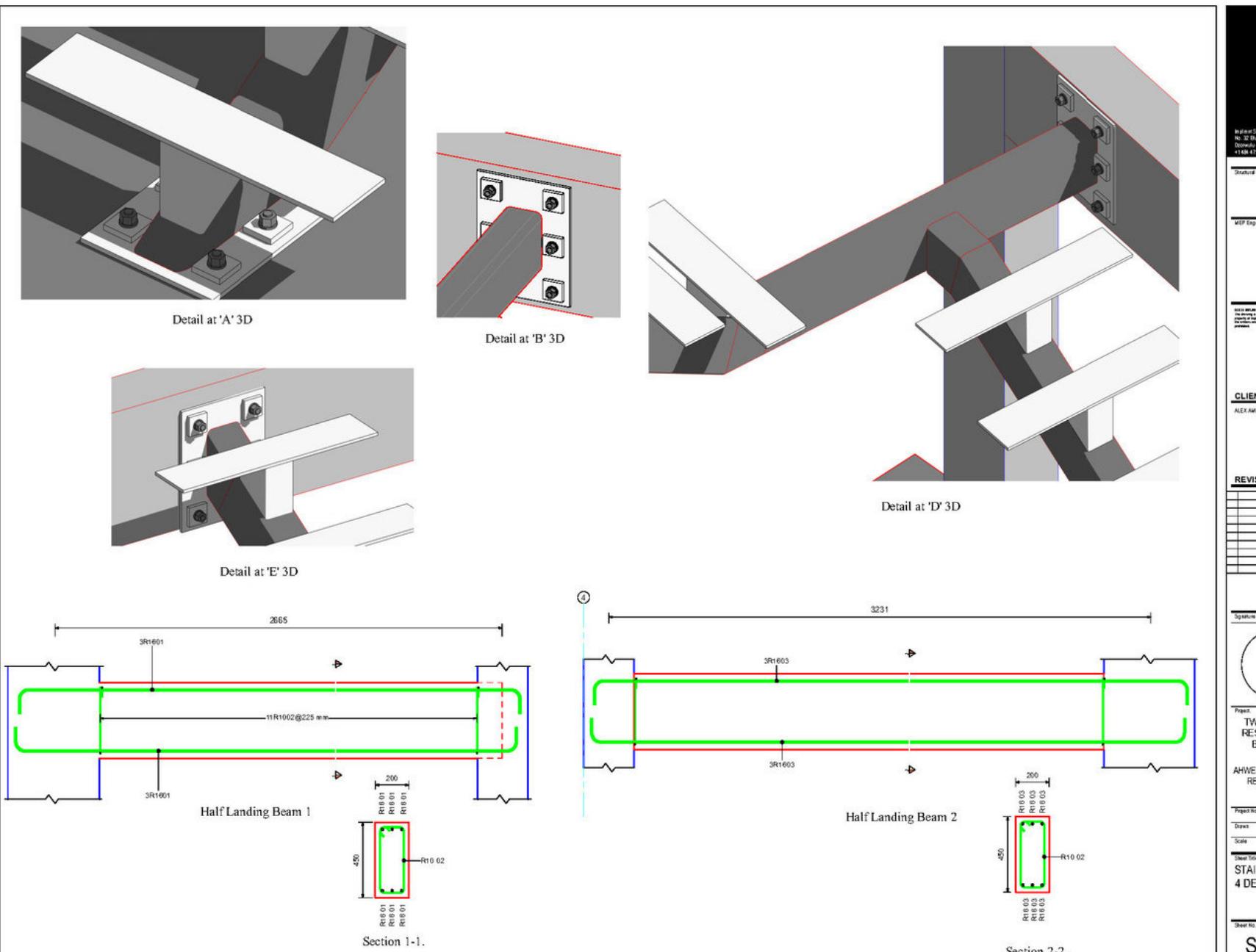
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## PINEAPPLE HILLS RESIDENTIAL BUILDING - EKODEK ENGINEERING AND CONSTRUCTION



STRINGER STAIRCASE DETAILS  
MADE IN AUTODESK REVIT

# KWABENA KISSIEDU

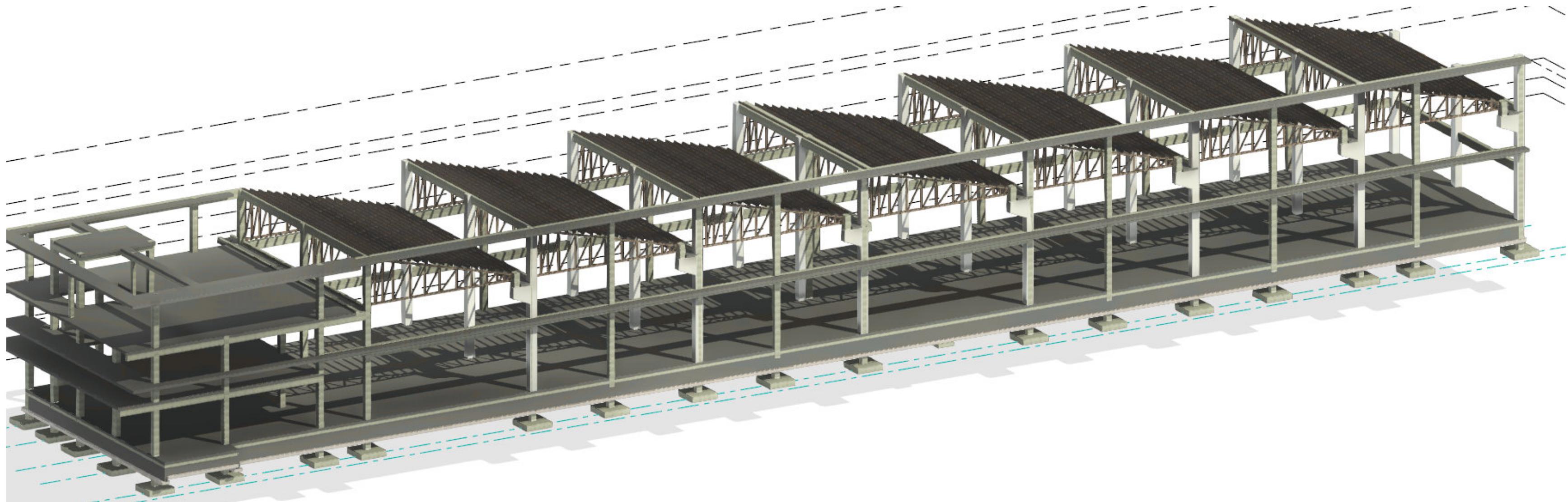
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## ONYX PROPERTIES WAREHOUSE - EKODEK ENGINEERING AND CONSTRUCTION



### Tasks

- Ran structural analysis and determined structural member sizes and rebar specifications using **ProtaStructure**.
- Analyzed and detailed column reinforcements in **Autodesk Revit**.
- Analyzed and detailed staircase reinforcements in **Autodesk Revit**.
- Draughted truss and blockwall details using **Autodesk Revit** and **AutoCAD**.
- Rendered images of reinforcement using **Lumion**.

# KWABENA KISSIEDU

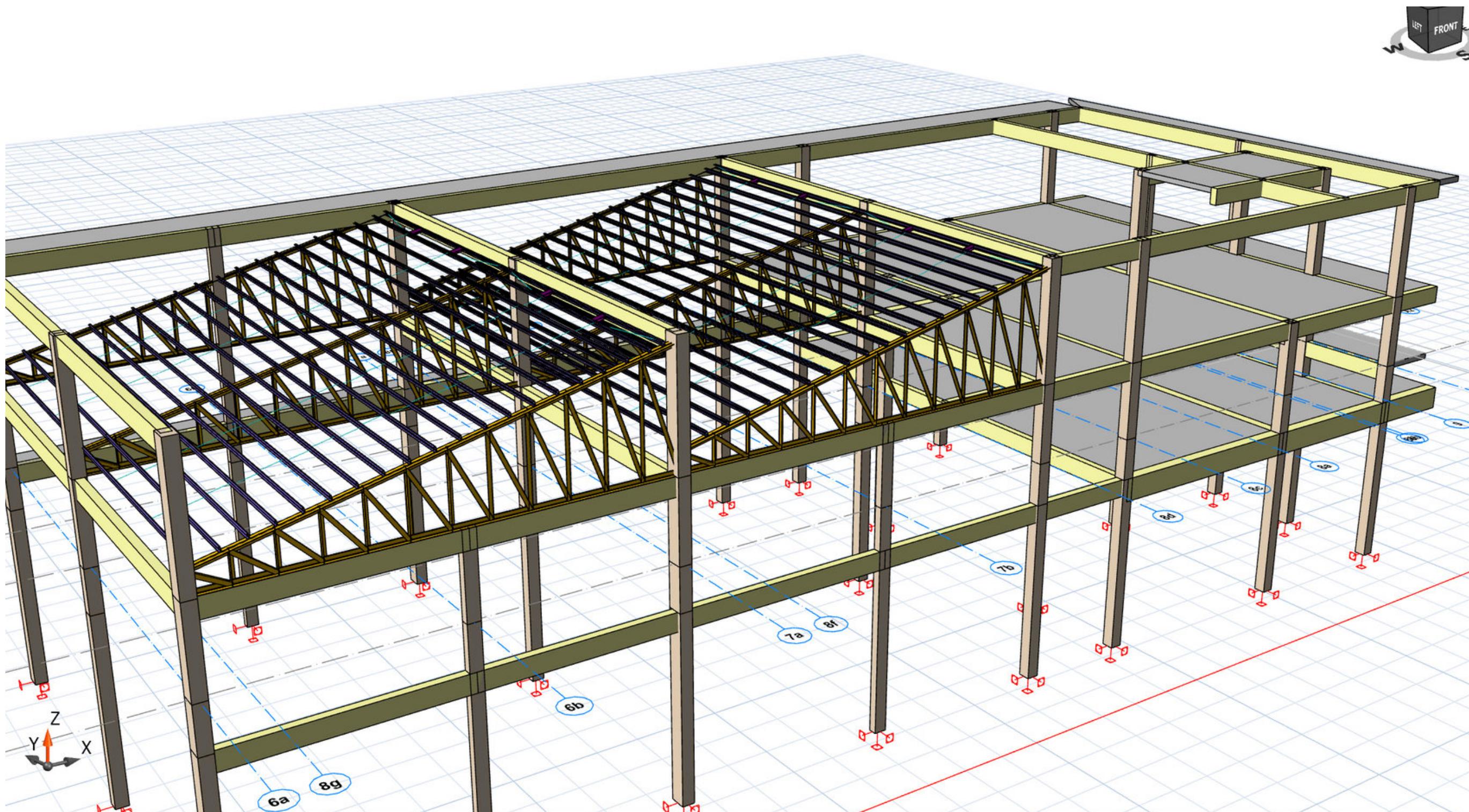
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## ONYX PROPERTIES WAREHOUSE - EKODEK ENGINEERING AND CONSTRUCTION



COLUMN REINFORCEMENT  
DETAILS MADE IN  
AUTODESK REVIT

# KWABENA KISSIEDU

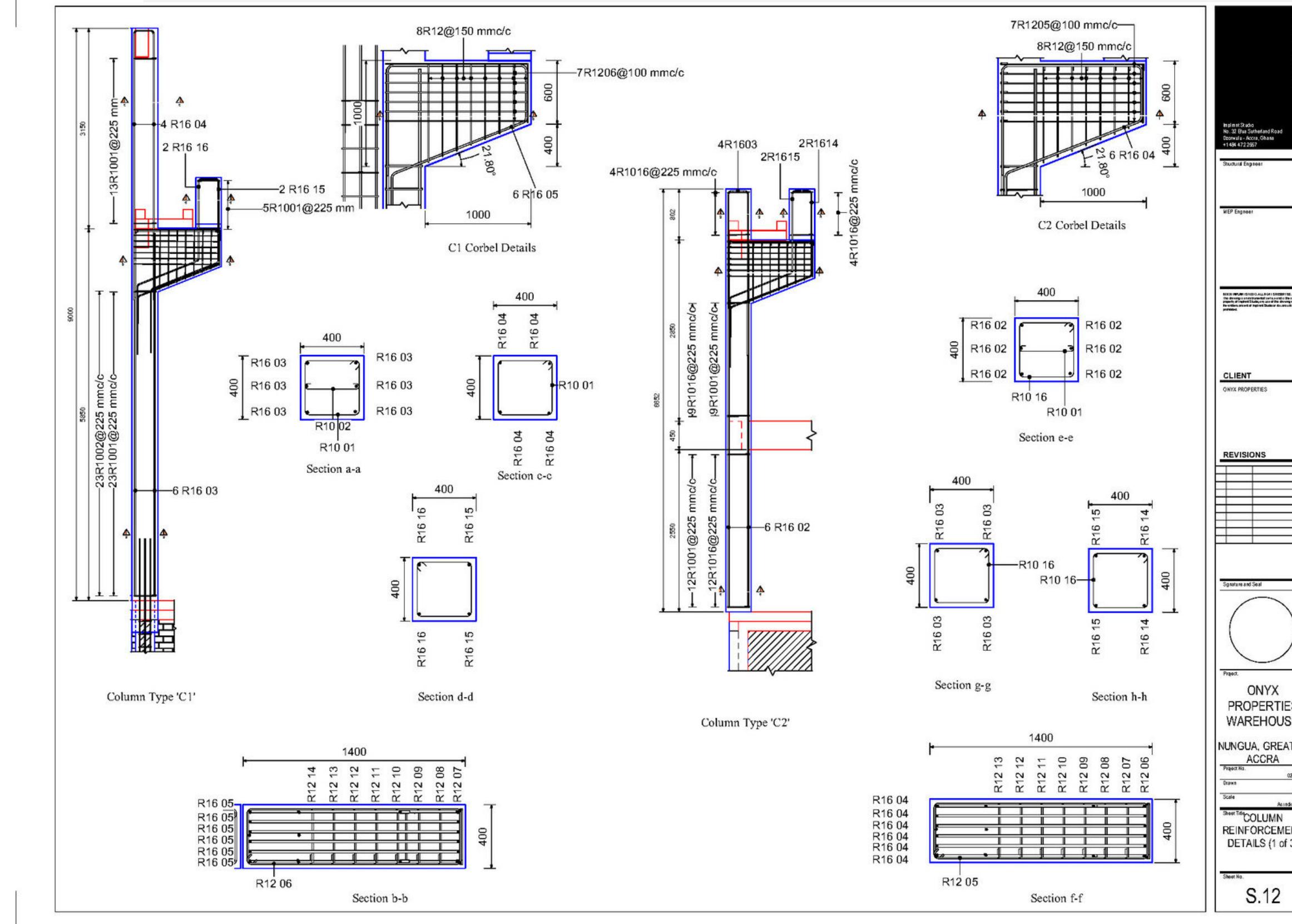
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 kissiedukwabena4@gmail.com

 0501101620

 <https://kwabena-kissiedu.webflow.io/>

## ONYX PROPERTIES WAREHOUSE - EKODEK ENGINEERING AND CONSTRUCTION



**COLUMN REINFORCEMENT  
DETAILS MADE IN  
AUTODESK REVIT**

# KWABENA KISSIEDU

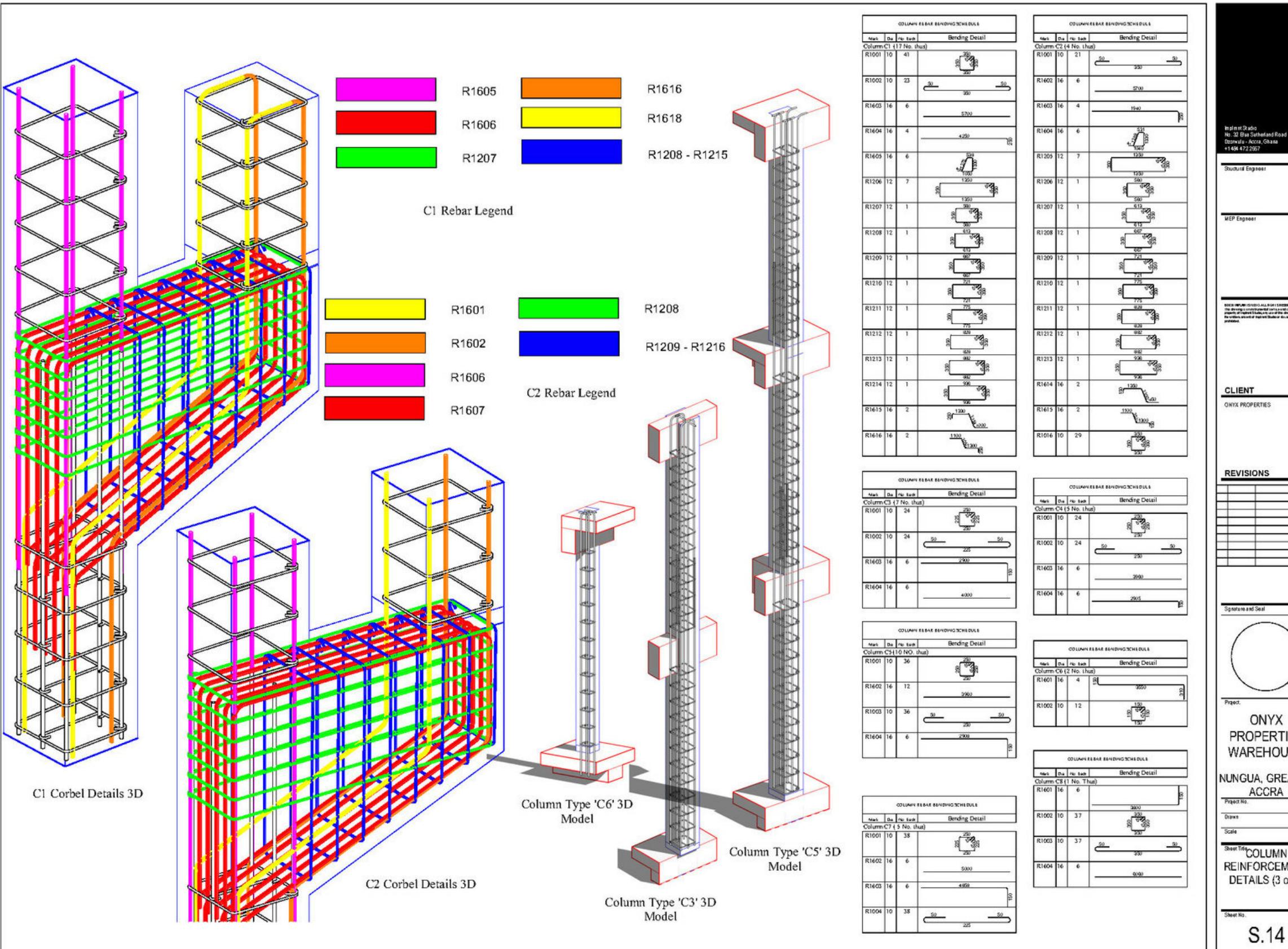
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## ONYX PROPERTIES WAREHOUSE - EKODEK ENGINEERING AND CONSTRUCTION



COLUMN REINFORCEMENT  
3D DETAILS MADE IN  
AUTODESK REVIT

# **KWABENA KISSIEDU**

GRADUATE STRUCTURAL ENGINEER TRAINEE | KNUST

# **GRADUATE STRUCTURAL ENGINEER TRAINEE | K.N.U.S.T.**



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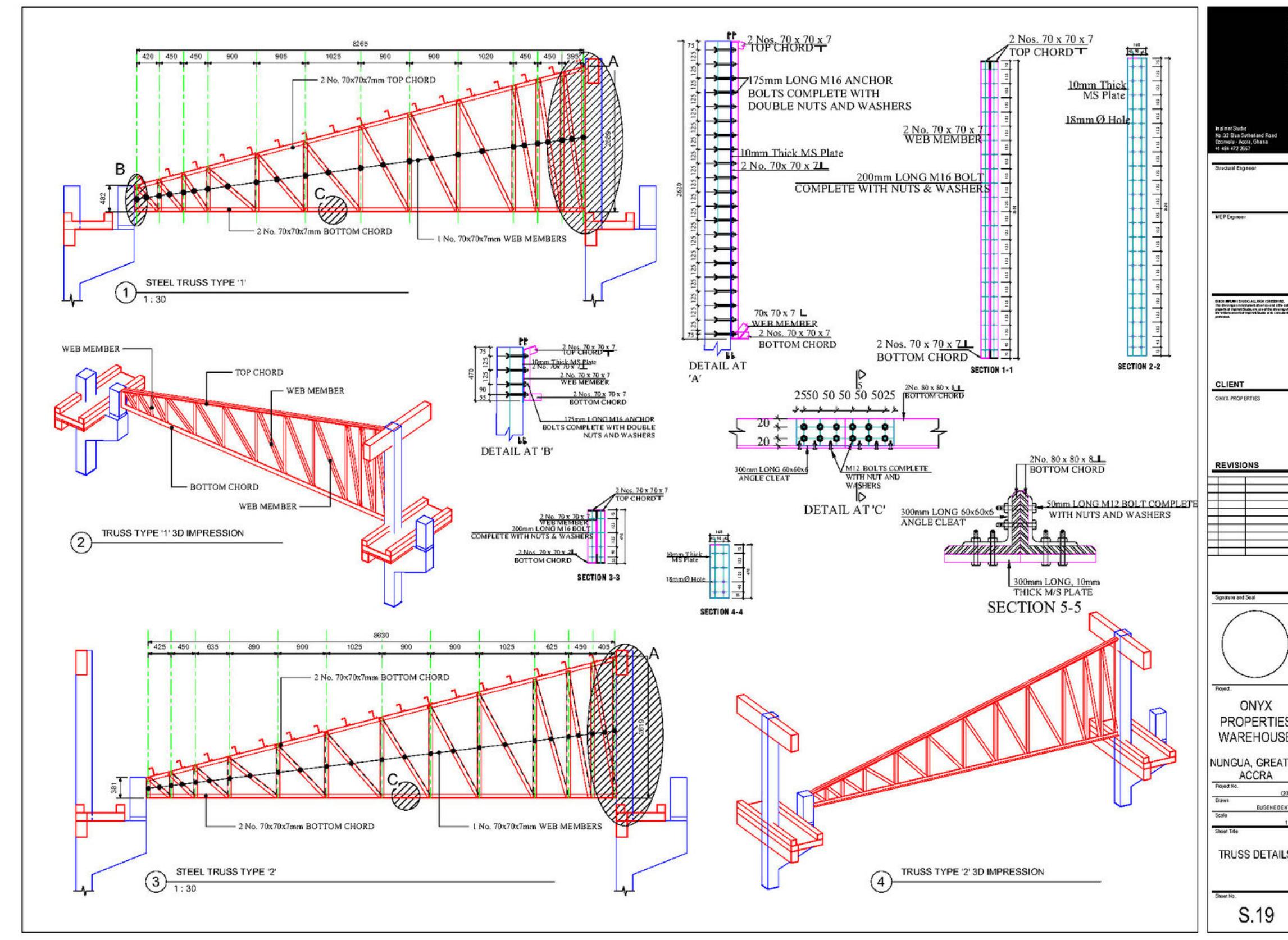


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ONYX PROPERTIES WAREHOUSE - EKODEK ENGINEERING AND CONSTRUCTION



# TRUSS DETAILS MADE IN AUTODESK REVIT

# KWABENA KISSIEDU

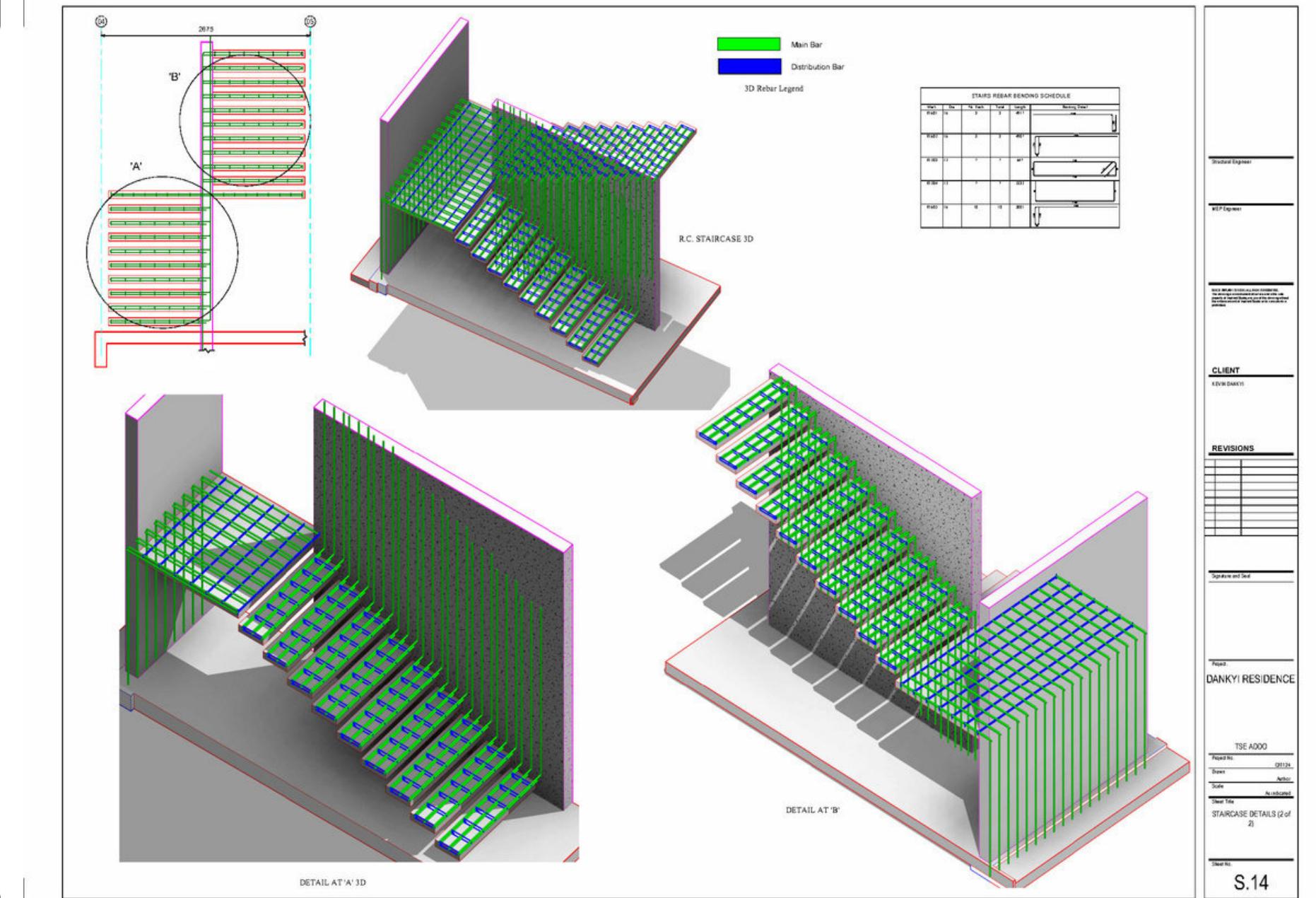
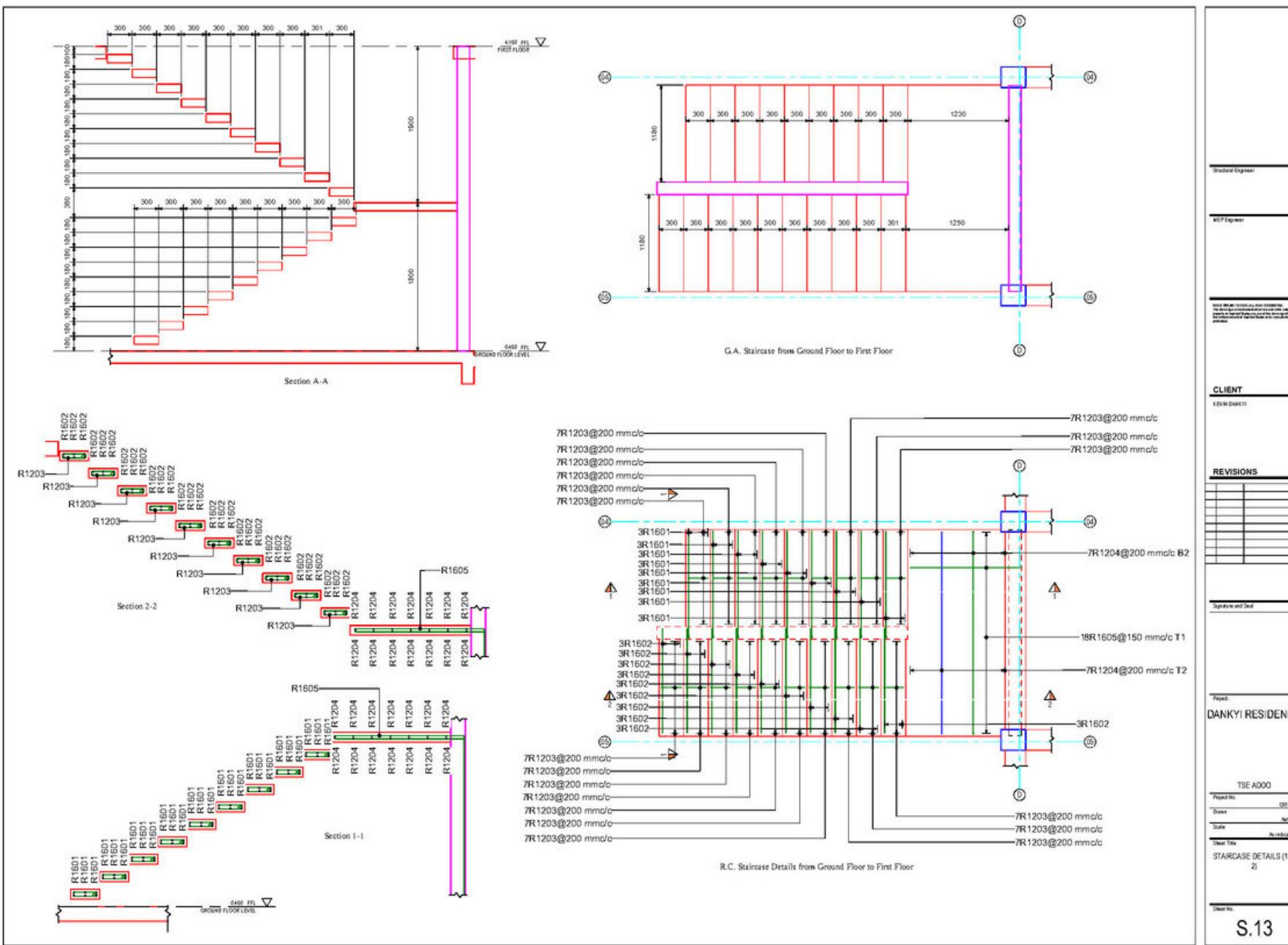
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# SAMPLES FROM OTHER PROJECTS



# CONCRETE FLOATING STAIR DETAILS

## MADE IN AUTODESK REVIT

# KWABENA KISSIEDU

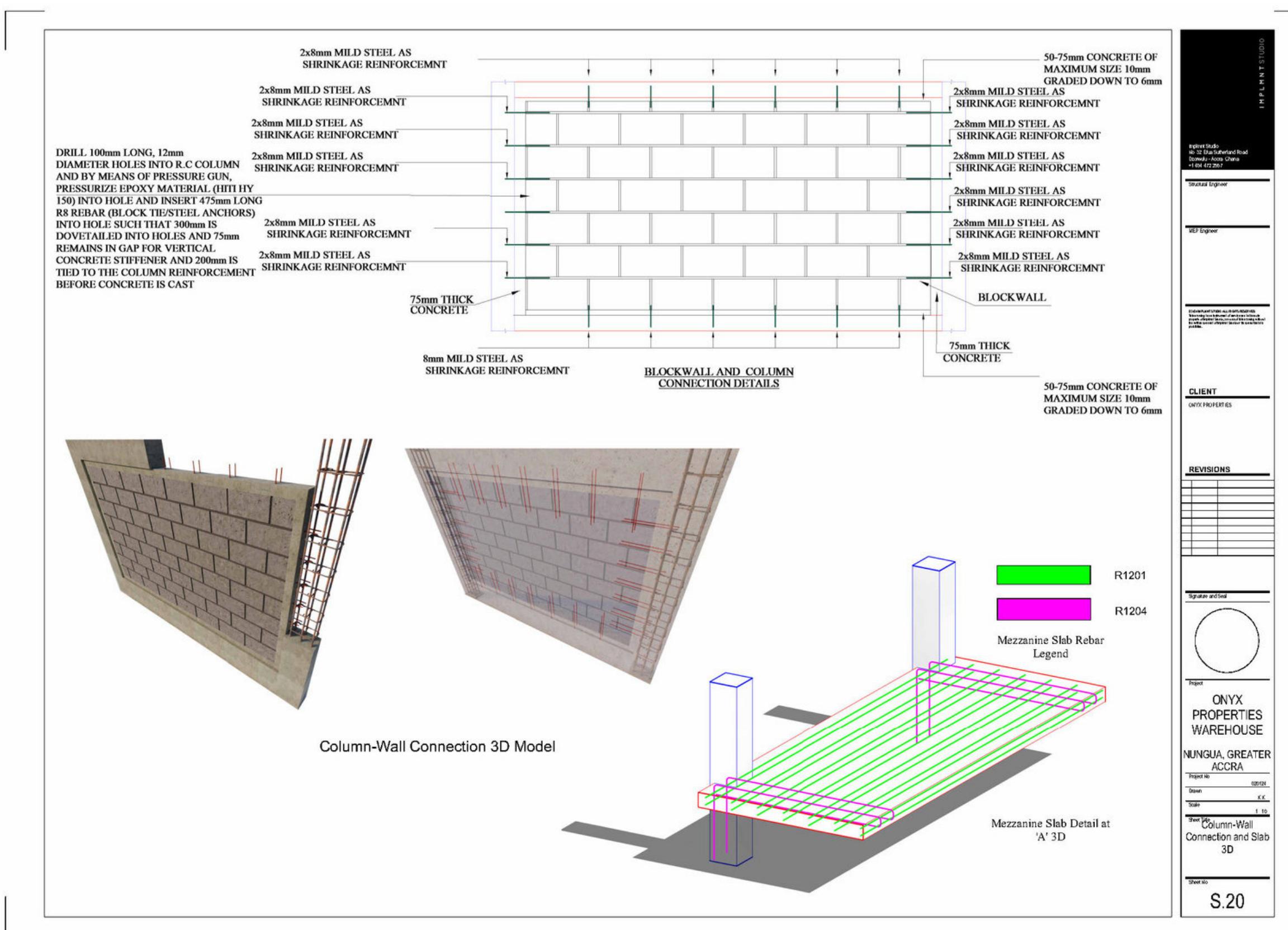
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## SAMPLES FROM OTHER PROJECTS



COLUMN-WALL CONNECTION  
DETAILS MADE USING  
AUTODESK REVIT AND  
AUTOCAD