

- columns. Cutting the cement block where the
- Demolition for Roof and walls of the Staircase.
- Demolition for the existing floor tiles with screed plain concrete.

4.

- roof to supply the building while working then install it again on the Relocate the water tank to be on the
- on the new staircase roof.

 Dismantling for the existing Solar water heater then reinstall it again on the new roof. roof of the staircase.

 Dismantling the exiting staircase solid door with its frame then install it again

6.

5

- Demolition for the wall to be as a
- emergency door.

 Dismantling the exiting Aluminum

8

Dismantling the Ac then reinstall it

9.

Demolition for the staircase walls.

10.

Date: 21 September 2022

Drawing No. (1)

Drawing Type: Architecture

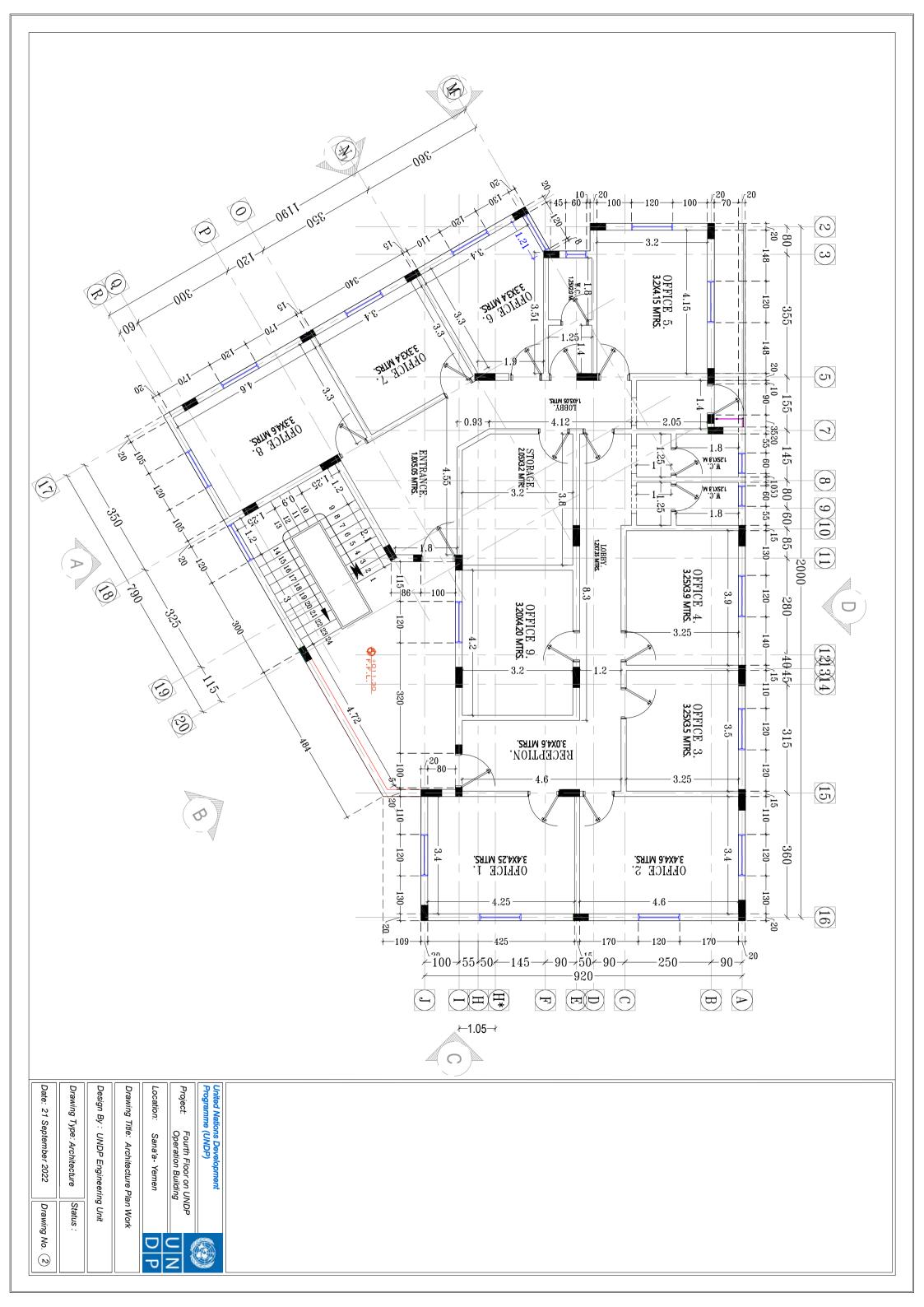
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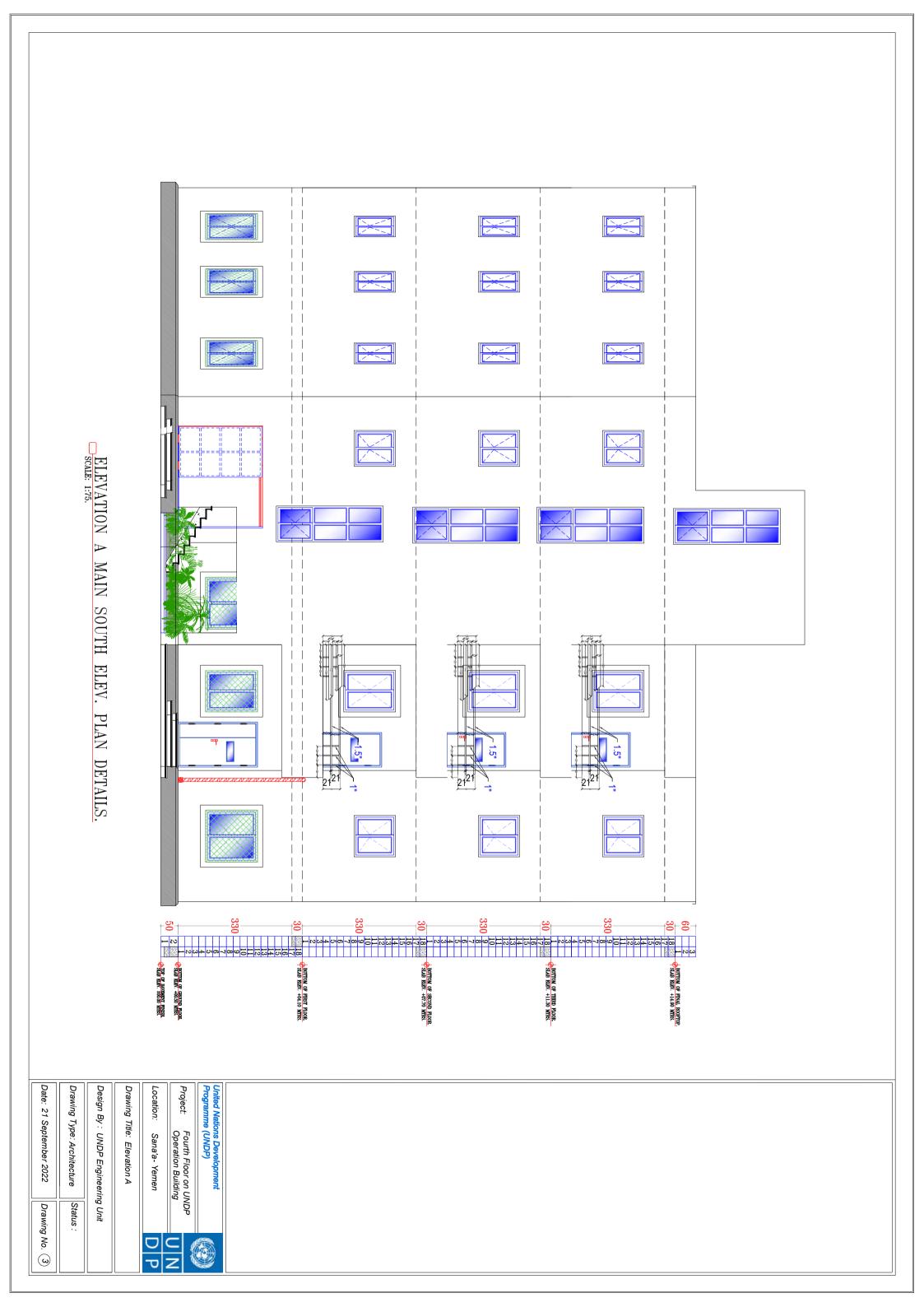
Design By: UNDP Engineering Unit

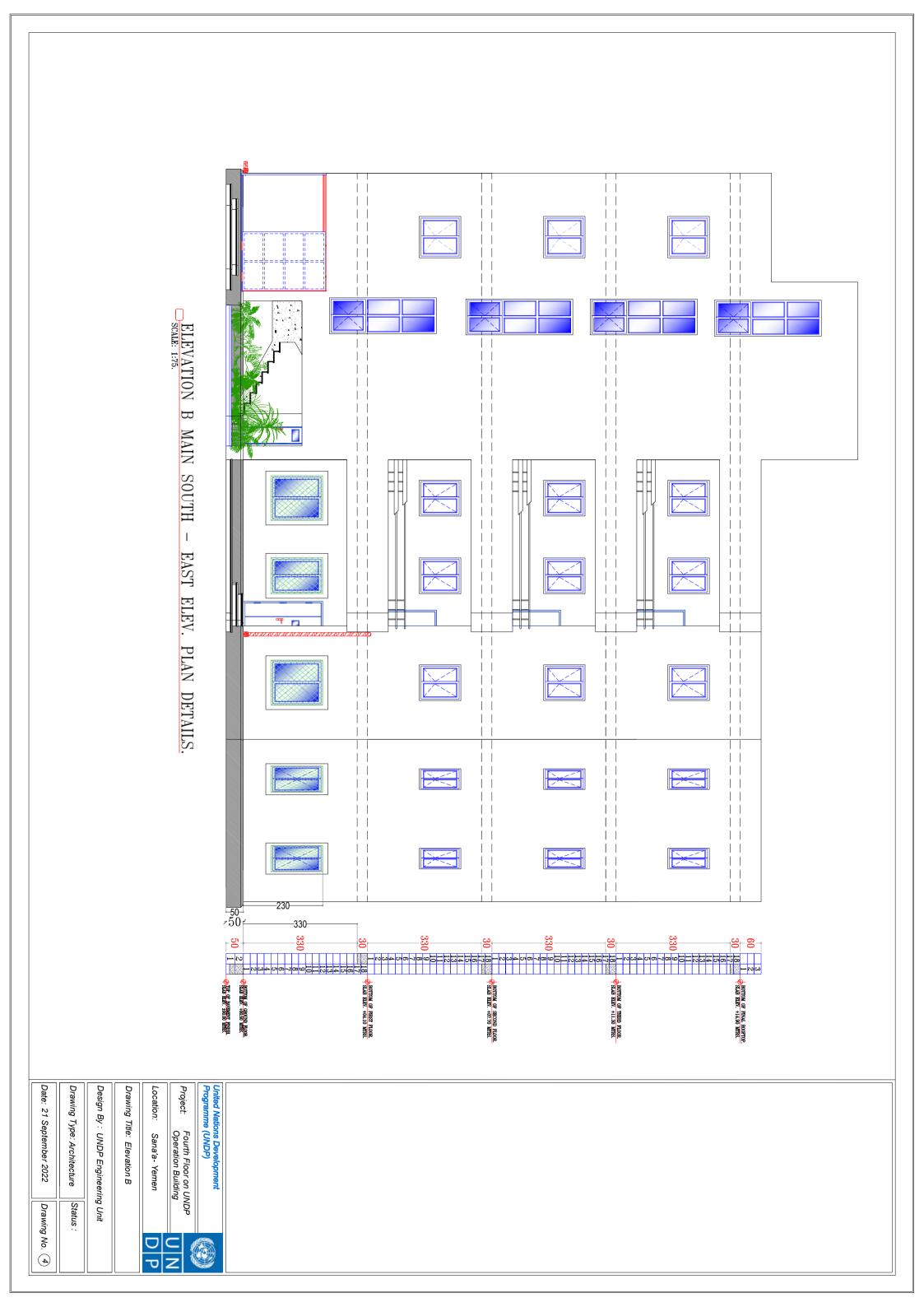
Drawing Title: Mobilization Work

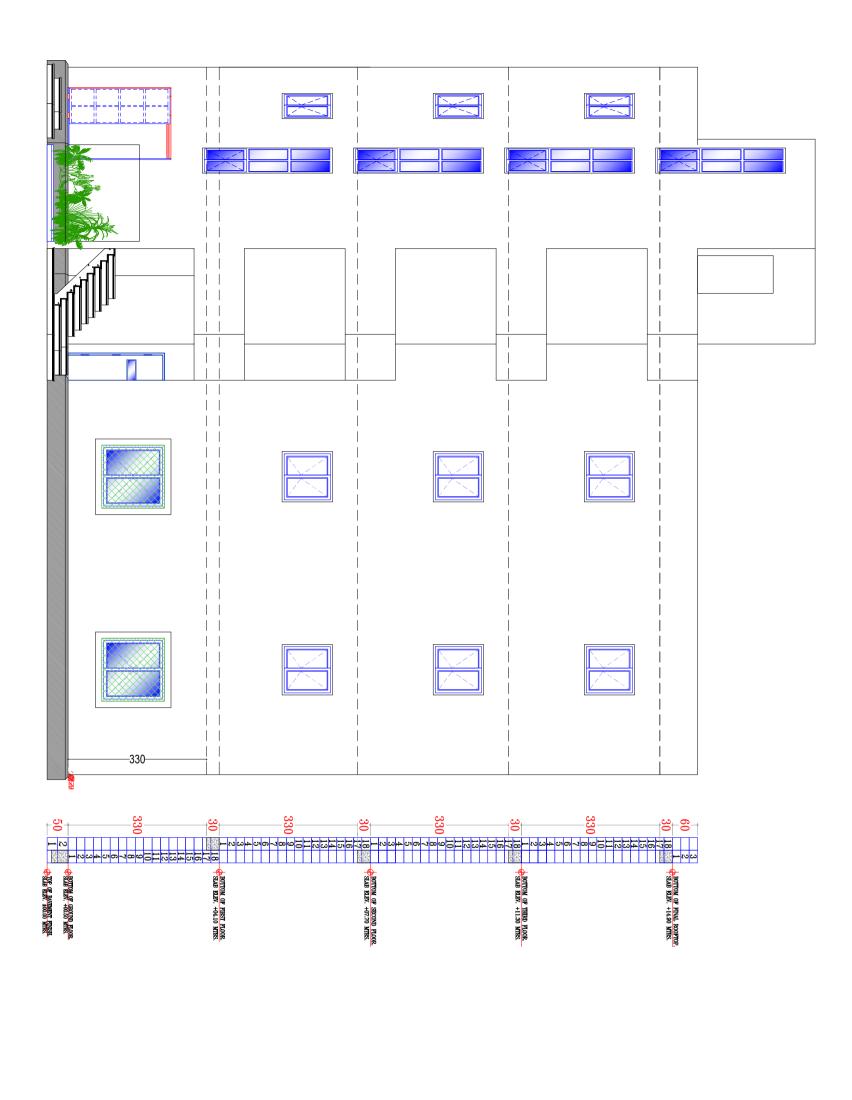
United Nations Development Programme (UNDP)

Fourth Floor on UNDP
Operation Building

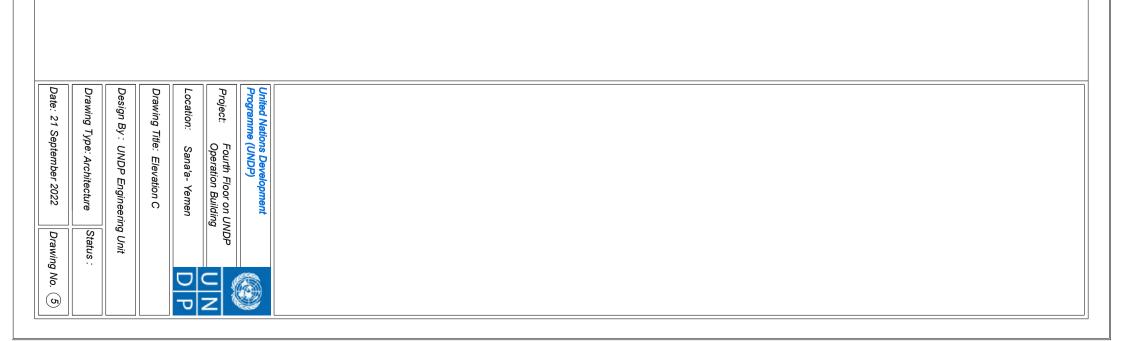


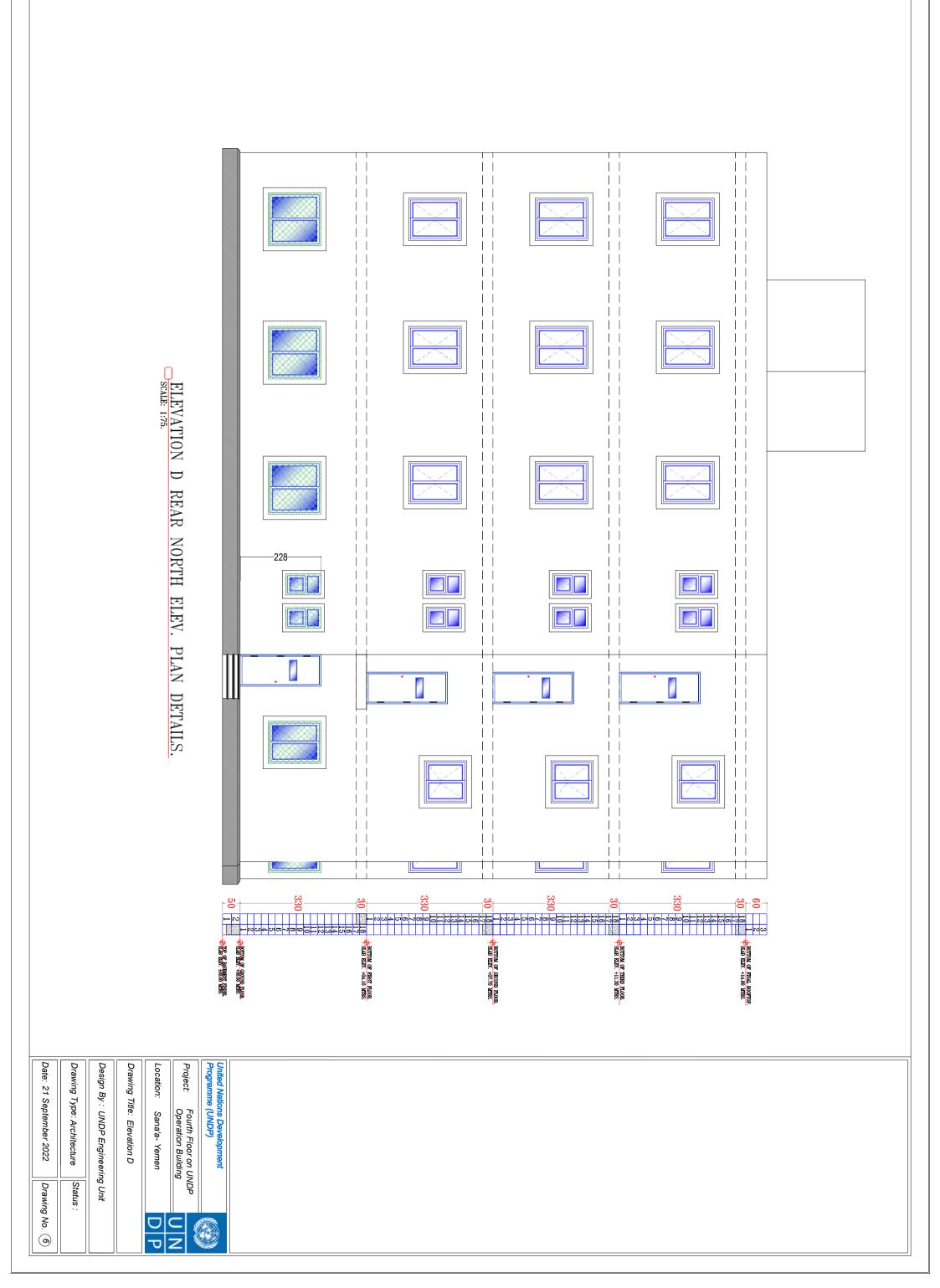


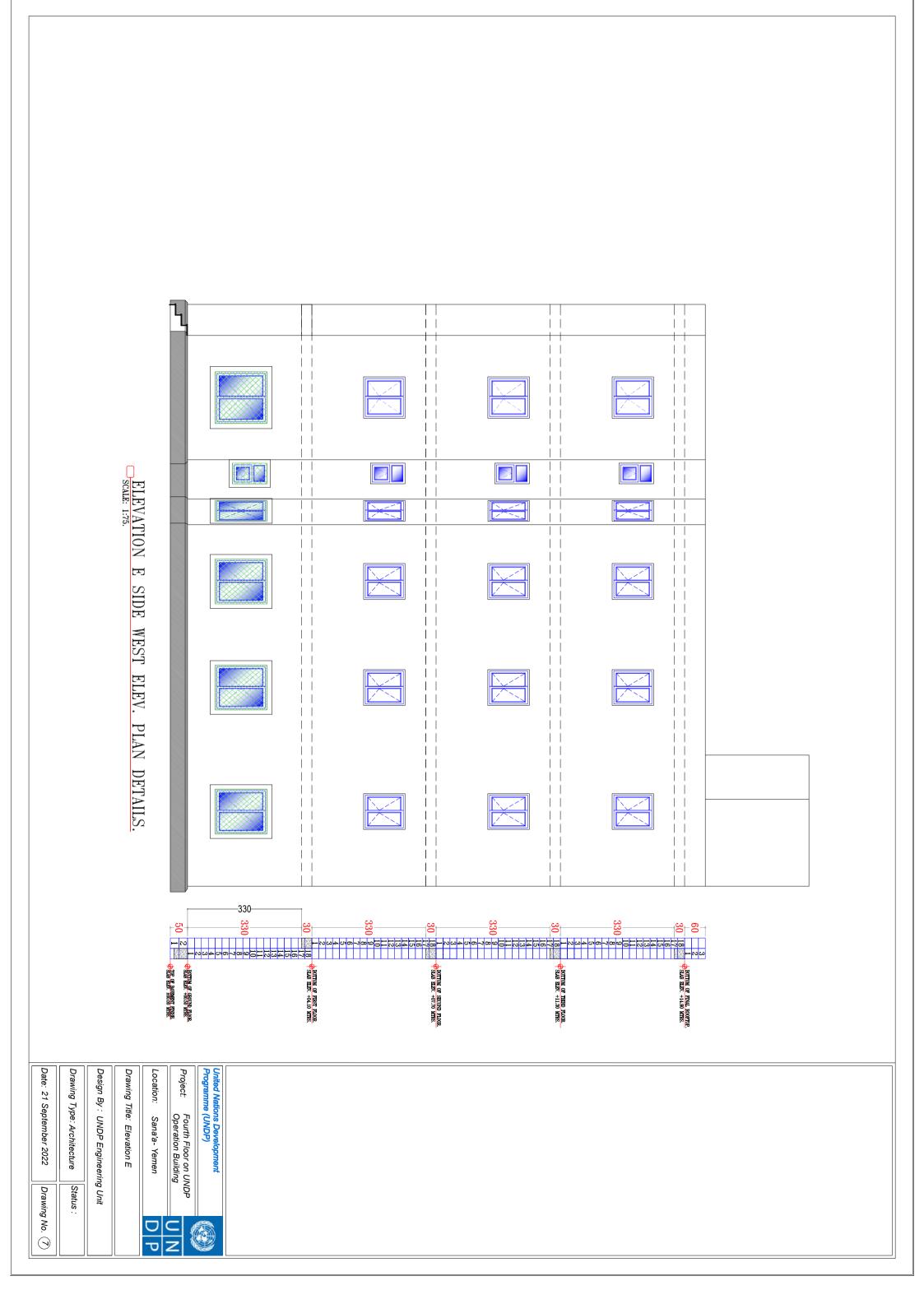


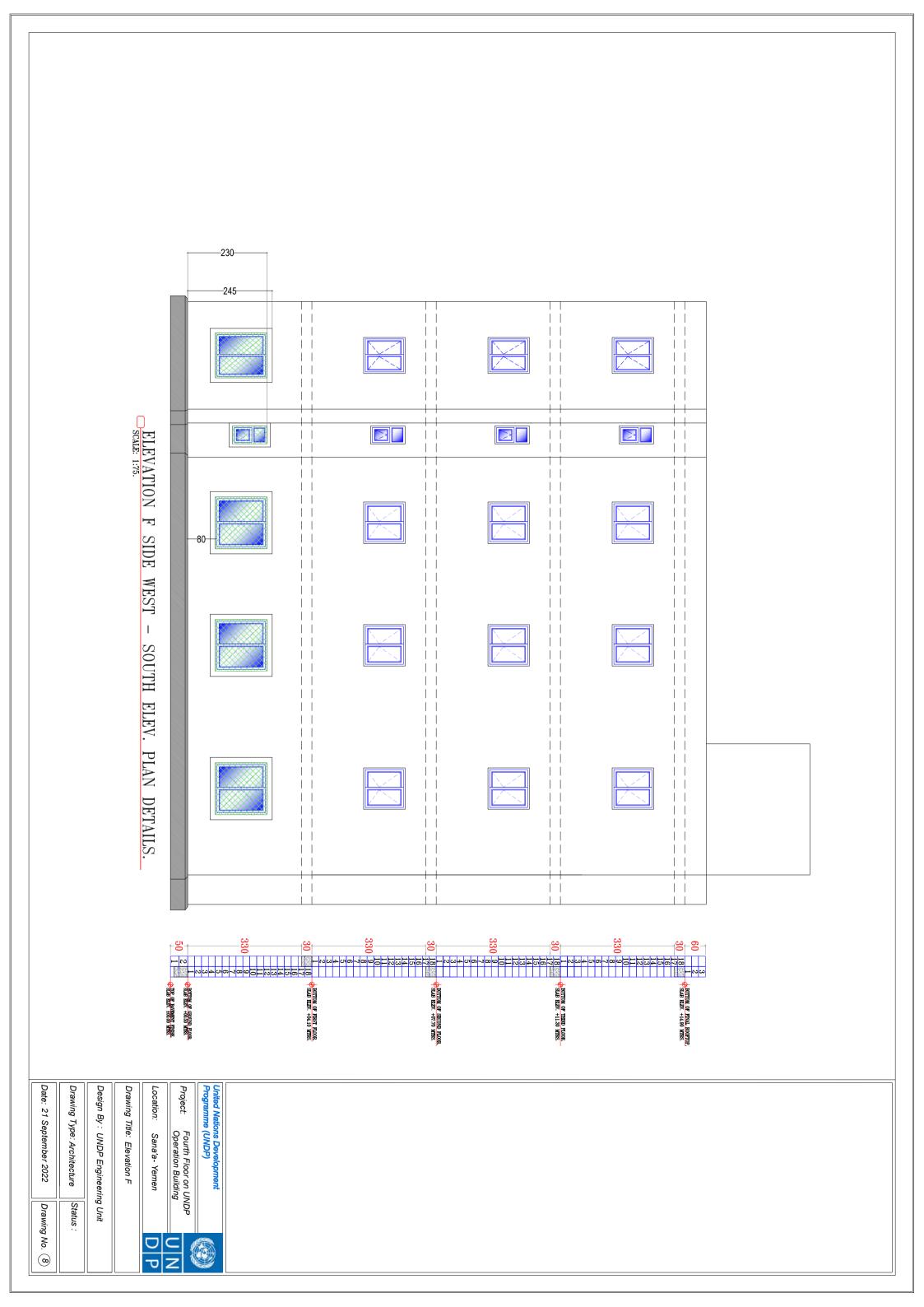


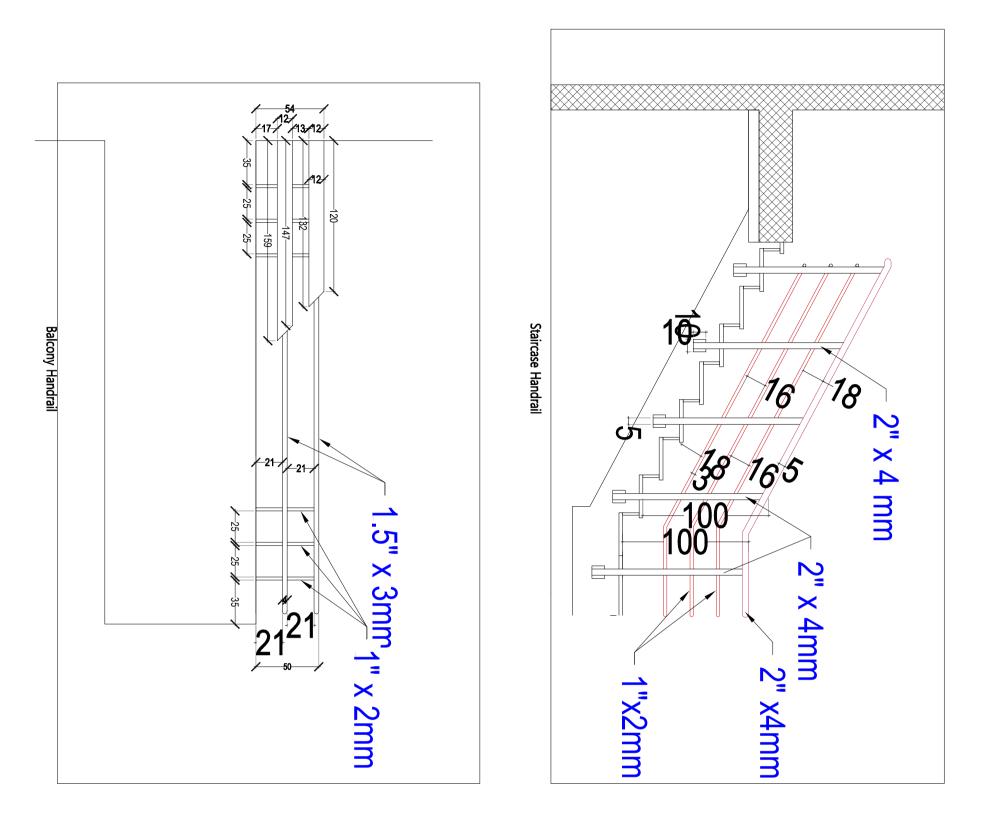




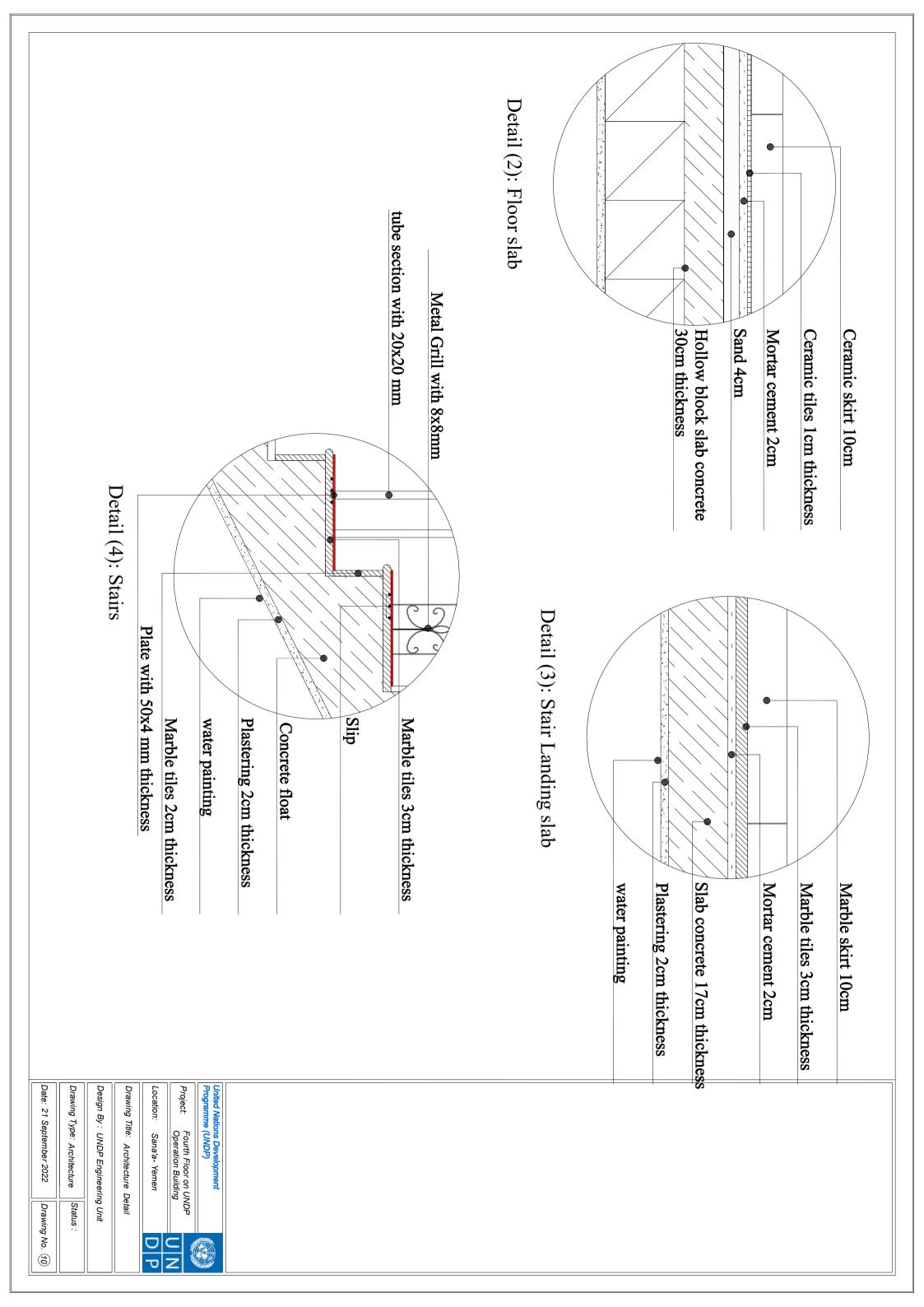


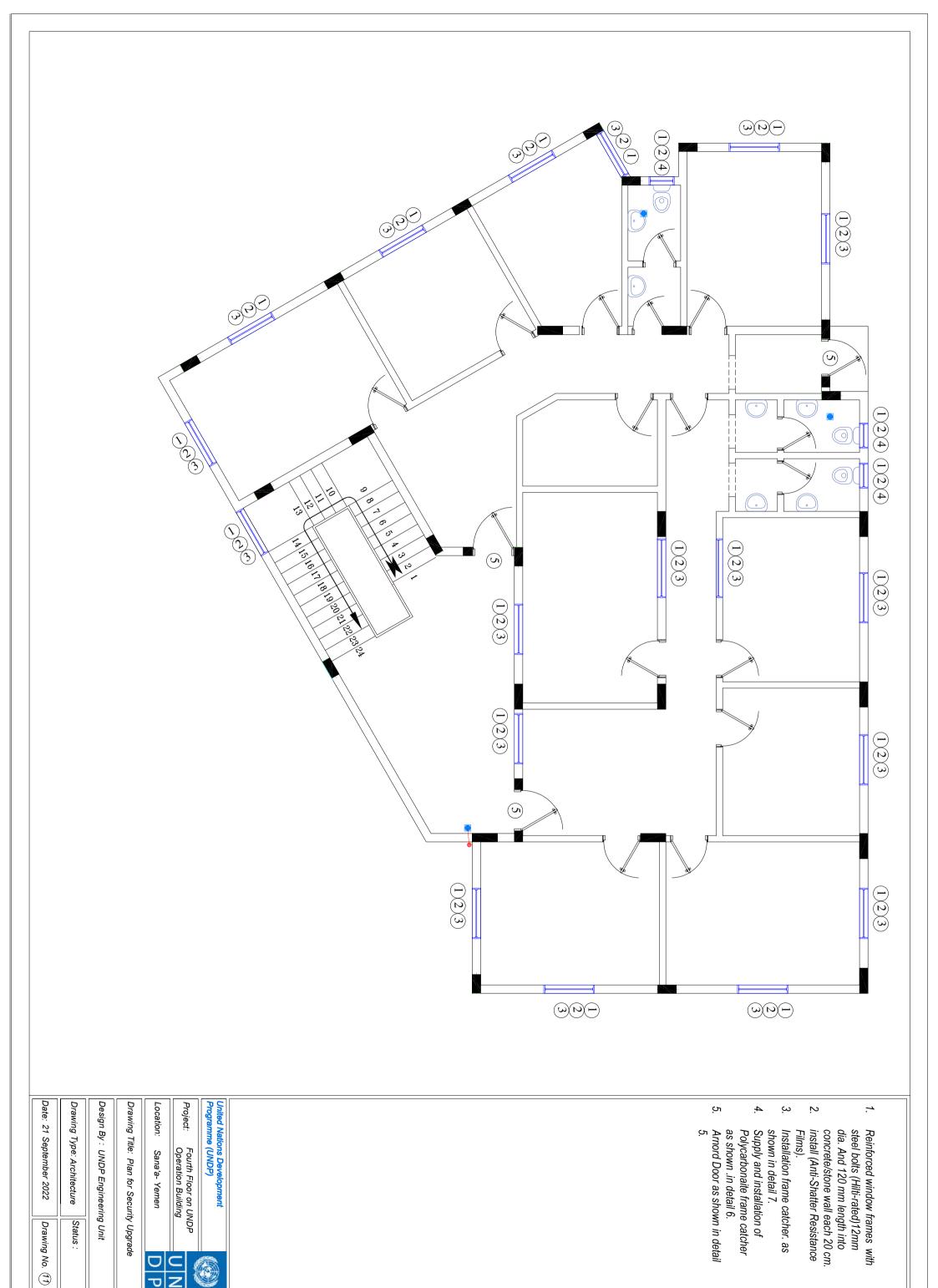


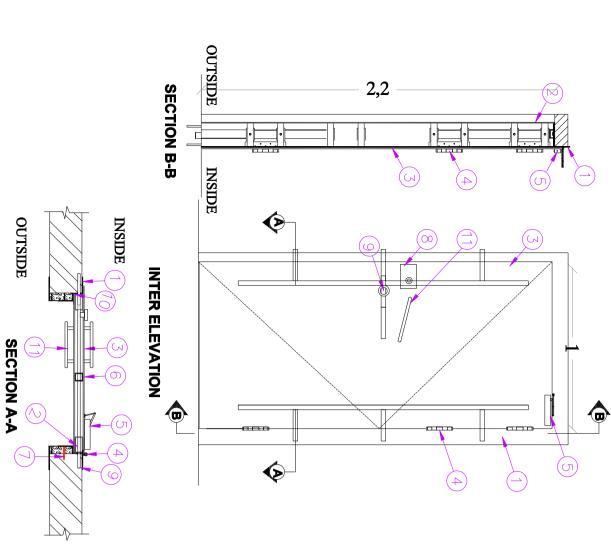












- <u>+</u> α α - Blast-Resistant External Frame size 10 cm X50cm X6mm X 2. Blast-Resistant Internal Frame size 50 X100 X3mm.
 - Steel door full metal plate 8 mm two sides (16mm thickness)
- 45mm *150mm *3 Heavy Weight Hinge / Welded Knuckles / reinforced by steel plate from/to door steel frame.
- Door closer.

ю Ω

- A Tube with size 50 mm *50 mm * 3 mm to distribute it each 40 cm horizontal and vertical.
- Hex Bolt on Concrete Anchor size D 20mm* 20 cm* 6 in all directions
- handle and covering the grooves by plate 4mm. Four side sealing strip smoke protection.

Manual lock inside 3* 400mm*30mm *2 in both side with

9.00

Electrical locked.

- 11. Handles with steel pipe 1 in Dia

Detail 5 : Steel Door

Date: 21 September 2022

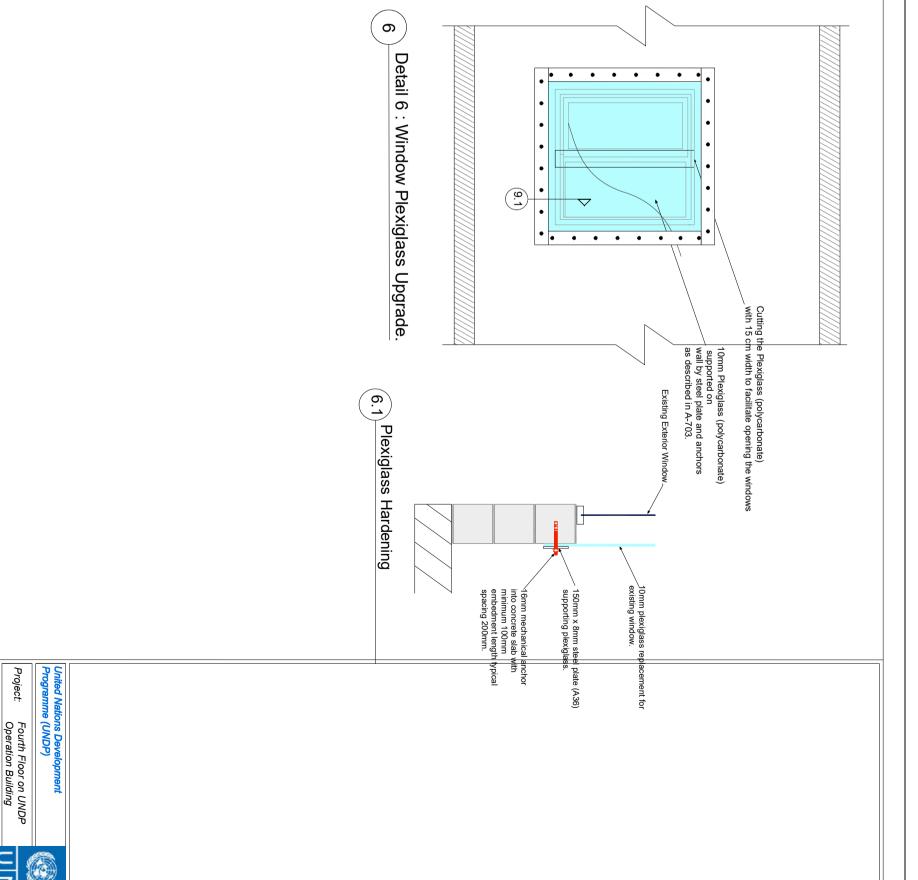
Drawing No. 12

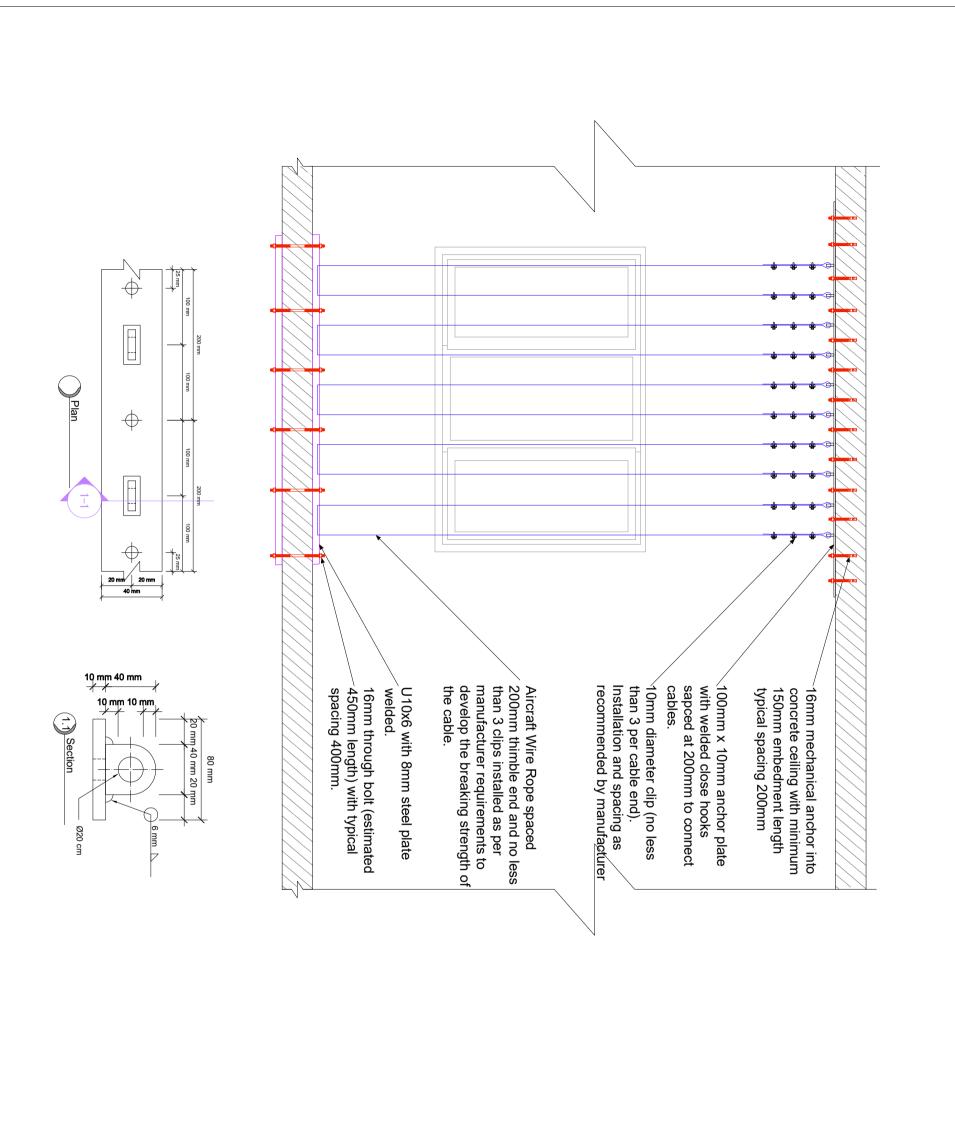
Drawing Type: Architecture

Status :

Design By: UNDP Engineering Unit

Drawing Title: Detail 5 Armored Door



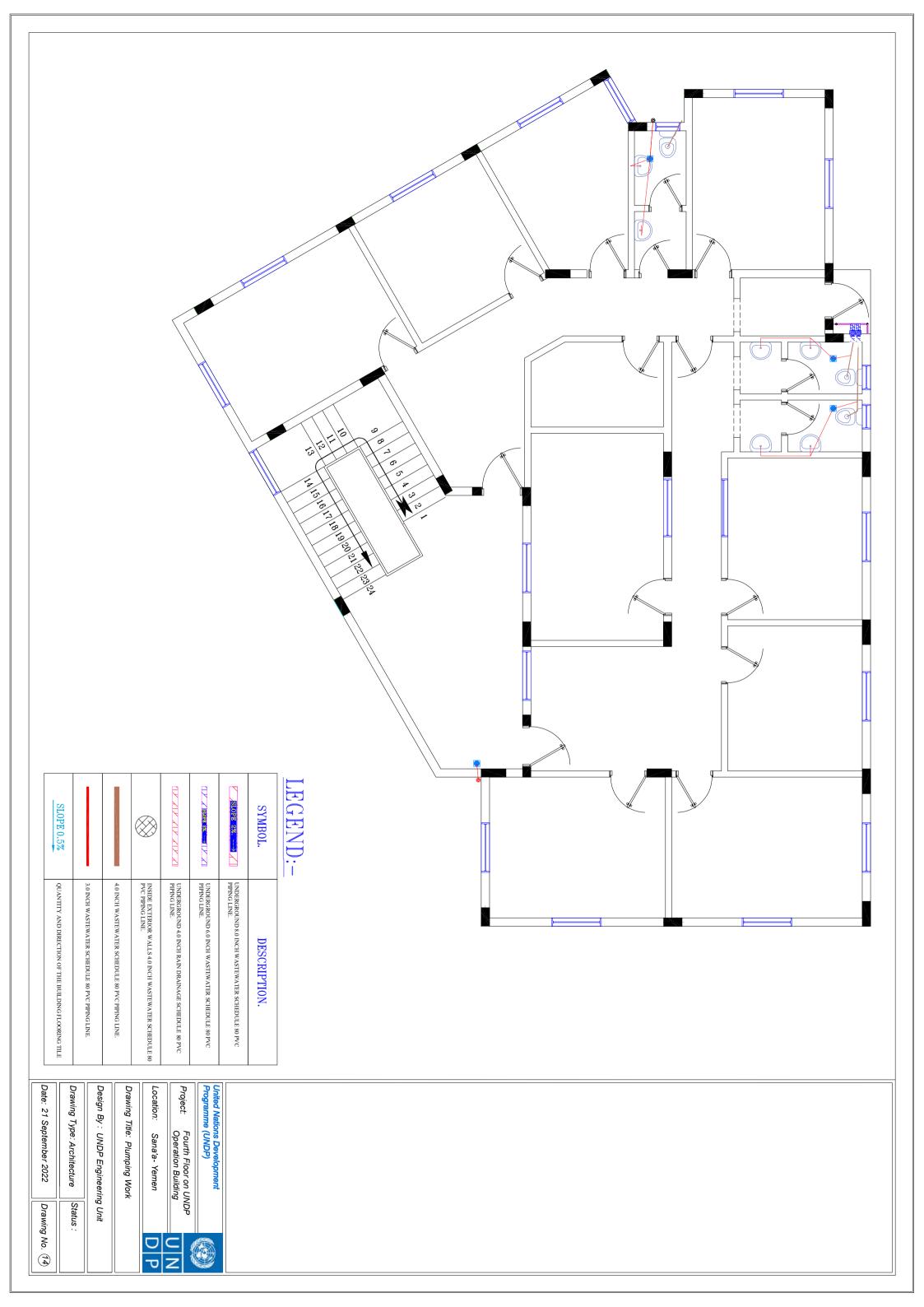


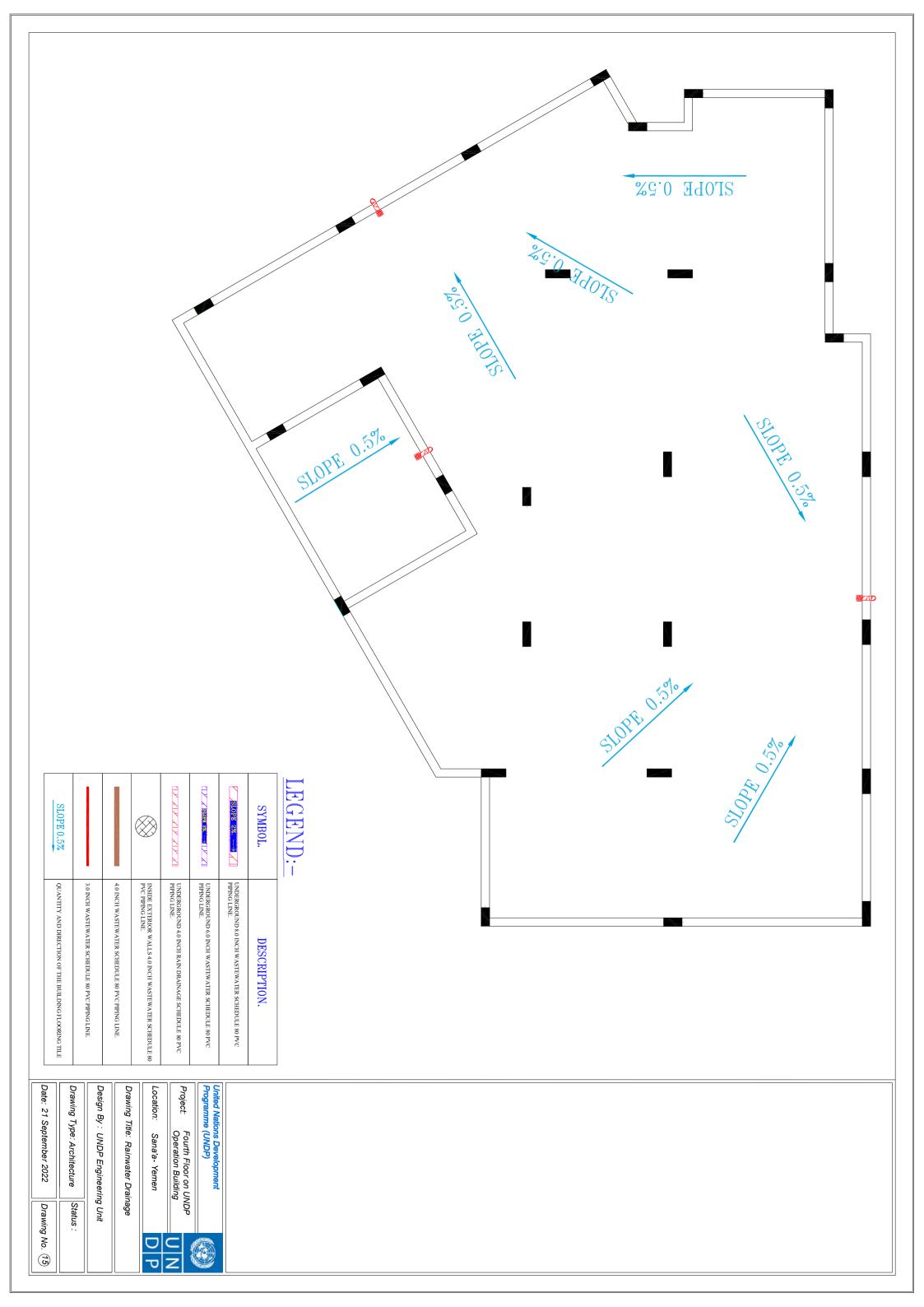
Detail 7 : Frame Catcher

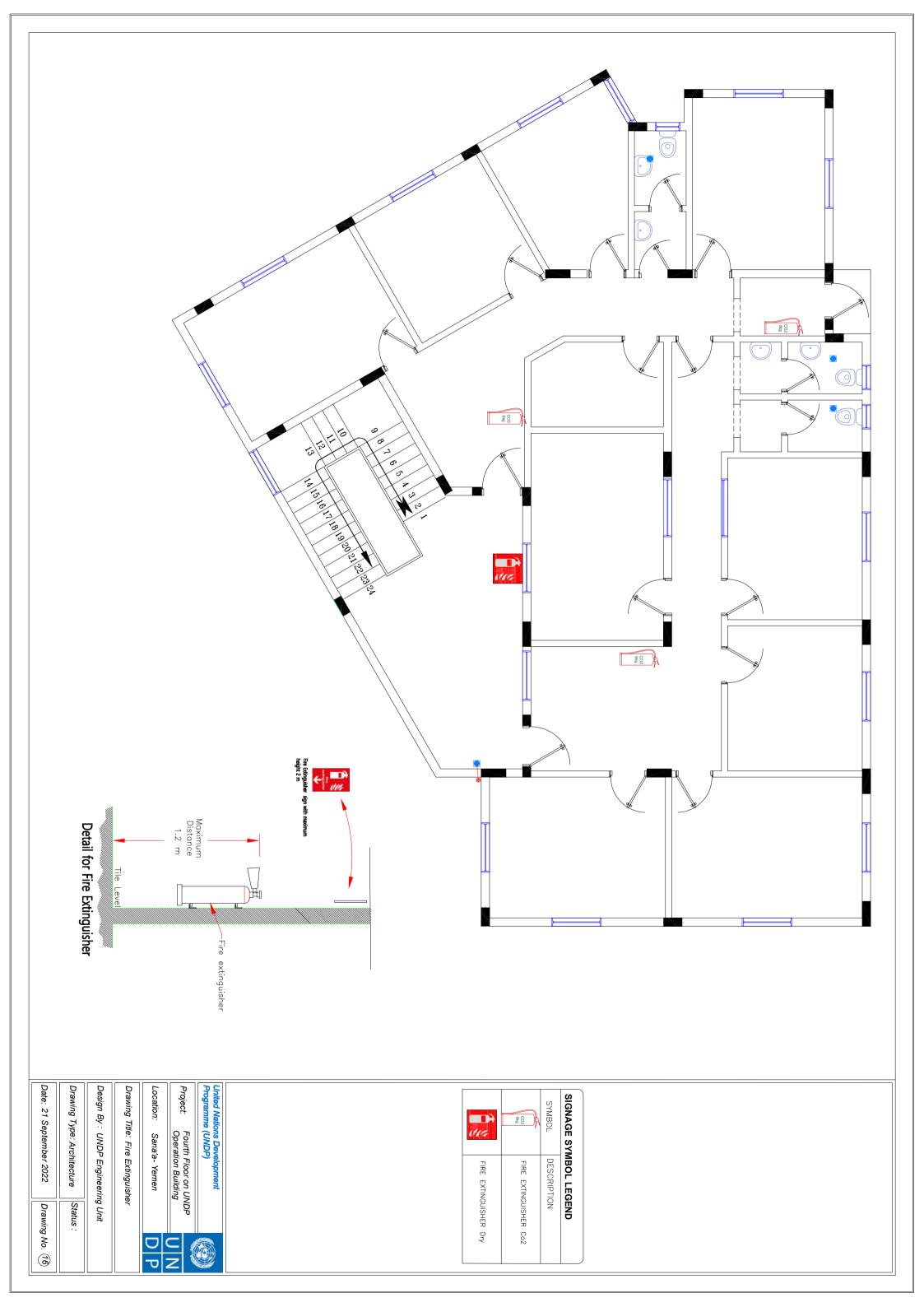


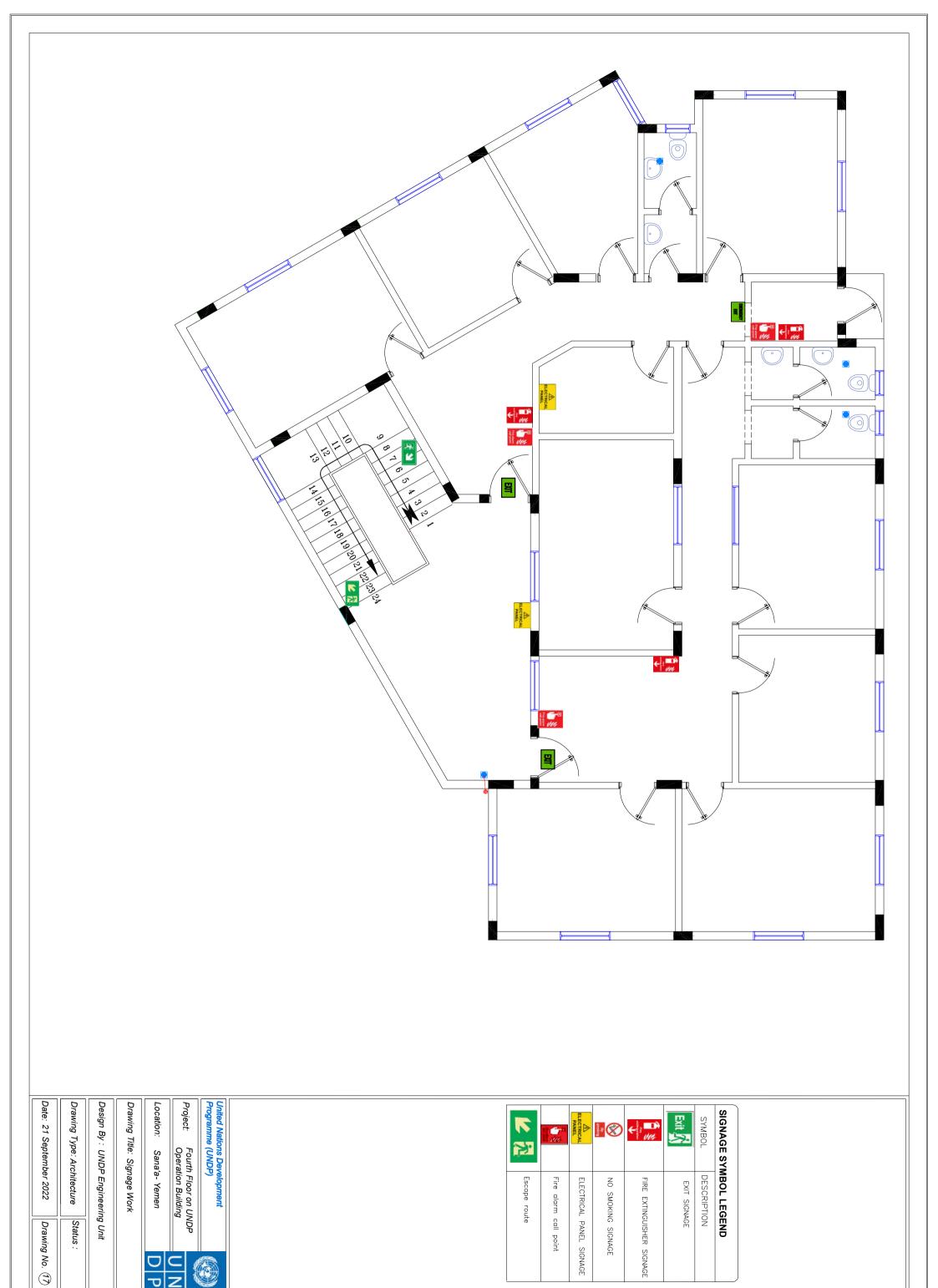
Date: 21 September 2022

Drawing No. 13









DRAWINGS

- **DRAWINGS** ARCHITECTURAL, ELECTRICAL, MECHANICAL, SANITARY AND OTHER STRUCTURAL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PERTINENT
- DIMENSIONS OF FLOOR OPENINGS IN R.C. MEMBERS. THESE OPENINGS SHALL BE COORDINATED WITH THOSE SHOWN ON STRUCT'L, MECHA'L, AND ELECT'L DWGS REFERENCE TO BE MADE TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND
- DRAWINGS OR COMPUTED. DO NOT SCALE FROM THE DRAWINGS, ALL DIMENSIONS SHALL BE READ FROM
- ARE IN m.REINFORCING BARS SIZES ARE IN mm. UNLESS OTHERWISE INDICATED ON DRAWINGS ALL DIMENSIONS AND ELEVATIONS
- ENGINEERS FOR VERIFICATION AND APPROVAL THAN SHOWN ON STRUCTURAL DWG'S MUST BE REPORTED TO THE STRUCTURAL ANY POSSIBLE CHANGES TO SLEEVES OR OPENINGS IN STRUCTURAL ELEMENTS OTHER
- FOR EXACT LOCATIONS AND DIMENSIONS OF OPENINGS IN FLOOR SLABS, REFER TO ARCHITECTURAL DRAWINGS
- OF THE ENGINEER FOR CLARIFICATION ERECTION OF FORMWORK. ANY DISCREPANCY MUST BE BROUGHT TO THE NOTICE ALL SECTIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS BEFORE
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE NOT ATTAINED DESIGN STRENGTH METER, PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS

DESIGN CRITERIA

UNIFORM BUILDING CODE (UBC 97) & ASTM. CODE REQUIREMENTS FOR REINFORCED CONCRETE STRUCTURES (ACI 318M-14), & 1. DESIGN AND CONSTRUCTION ARE IN ACCORDANCE WITH THE ACI STANDARD BUILDING

CONCRETE:

Concrete mixture ingredients shall conform to the Specifications in the table:

ASTM C260M	Air entrainment admixtures
ASTM C1017M	Water reduction & setting time modification admixtures
ASTM C1602M	Water
ASTM C33M	Aggregates
ASTM C150M	Portland Cement
Specifications	Mixture Ingredients
Concrete Materials Specifications	Concrete Materia

concrete Production :

- Equipment for mixing and transporting concrete shall conform to Astm c94m or astm
- ready-mixed and site mixed concrete shall be batched, mixed, and delivered accordance with astm c94m or astm c685m.

PREPARATION OF EQUIPMENT AND PLACE OF DEPOSIT

Preparation before concrete placement shall include the following:

- All equipment for mixing and transporting concrete shall be clean;
- Forms shall be properly coated;

Masonry filler units that will be in contact with concrete shall be well drenched;

- Reinforcement shall be thoroughly clean of corrosion.
- Water shall be removed from place of deposit before concrete is placed

MIXING OF CONCRETE

- ALL CONCRETE SHALL BE MIXED UNTIL THERE IS A UNIFORM DISTRIBUTION OF MATERIALS AND SHALL BE DISCHARGED COMPLETELY BEFORE MIXER IS RECHARGED.
 READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH
- 94M) OR STANDARD SPECIFICATION FOR CONCRETE MADE BY VOLUMETRIC BATCHING REQUIREMENTS OF STANDARD SPECIFICATION FOR READY-MIXED CONCRETE" (ASTM C AND CONTINUOUS MIXING" (ASTM C 685M).

CONVEYING OF CONCRETE

- that will prevent separation or loss of materials.

 Conveying equipment shall be capable of providing a supply of concrete at site of placement without separation of ingredients and without interruptions Concrete shall be conveyed from mixer to place of final deposit by methods sufficient to permit loss of plasticity between successive increments.

DEPOSITING OF CONCRETE

- CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICAL IN ITS FINAL POSITION TO AVOID
- SEGREGATION DUE TO REHANDLING OR FLOWING.
 CONCRETING SHALL BE CARRIED ON AT SUCH A RATE THAT CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT.
 CONCRETE THAT HAS PARTIALLY HARDENED OR BEEN CONTAMINATED BY FOREIGN
- MATERIALS SHALL NOT BE DEPOSITED IN THE STRUCTURE.
 RETEMPERED CONCRETE OR CONCRETE THAT HAS BEEN REMIXED AFTER INITIAL SET SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER.
- ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.

 MINIMUM CLEAR CONCRETE

COVER TO REINFORGING STEEL

Concrete Exposure Cast against and permanently in contact with ground Exposed to weather or in contact with ground	Member Reinforce All No. 19 through bars All No. 16 bar and No. 43 and No.	Reinforcement All No. 19 through No. 57 bars No. 16 bar and smaller No. 43 and No. 57 bars
xposure xposure st and n contact und ather or in ather or in	Member All	Reinforcement All No. 19 through No. 57
veather or in	2	No. 19 through No. 5 bars
ith ground	Ì	No. 16 bar and small
	Slabs,Joist,and	No. 43 and No. 57 ba
Not Exposed to Weather	Walls	No. 36 bar and smaller
or in contact with ground	Beams,Columns, Pedestals,and tension ties	Primary reinforcement, stirrup, ties, spirals, and hoops

Date: 21 September 2022

Drawing No. (18)

Drawing Type:Structure

Status :

Drawing Title: Main Notes

Design By: UNDP Engineering Unit

United Nations Development Programme (UNDP)

Fourth Floor on UNDP
Operation Building

REINFORCING STEEL:

1. REINFORCING STEEL BARS TO BE ACCORDING TO ASTM A615 LATEST REVISION AND DENOTED BY: STRENGTH fy 280 MPA

REINFORCING Details:

SPACING LIMITS FOR REINFORGEMENT

- BE db, BUT NOT LESS THAN 25 MM THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL
- WHERE PARALLEL REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, BOTTOM LAYER WITH CLEAR DISTANCE BETWEEN LAYERS NOT LESS THAN 25 BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE
- CONSTRUCTION, PRIMARY FLEXURAL REINFORCEMENT SHALL NOT BE SPACED FARTHER APART THAN THREE TIMES THE WALL OR SLAB MEMBERS, CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL BE NOT LESS THAN 1.5 db NOR LESS THAN 40 MM CLEAR DISTANCE LIMITATION BETWEEN BARS SHALL APPLY ALSO TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OR BARS. IN SPIRALLY REINFORCED OR TIED REINFORCED COMPRESSION IN WALLS AND SLABS OTHER THAN CONCRETE JOIST

DEVELOPMENT LENGTH

THICKNESS, NOR FARTHER APART THAN 450 MM.

- FOR DEVELOPMENT LENGTH AND TENSION LAP SPLICE USE 50 Db.
- FOR COMPRESSION LAP SPLICE USE 40 Db.

TIES

Column Details:

BAR-SPACING REQUIREMENTS:

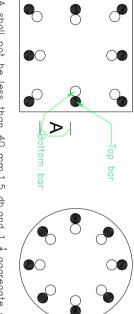
(RE)

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150 (FOR SIZE & NO. T., SEE COLUMN/SHEAR CHED.)

OF ROOF BEAM

LAP-SPLICED BARS AND ADJACENT BARS OF LAP SPLICES. 40 mm OR $\frac{1}{3}$ TIMES THE MAXIMUM SIZE OF THE COARSE AGGREGATE. THESE CLEAR-DISTANCE LIMITATIONS ALSO APPLY TO THE CLEAR DISTANCE BETWEEN THE MINIMUM CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL NOT BE LESS THAN THE LARGER OF 1.5 TIMES THE LONGITUDINAL BAR DIAMETER, OR



(SEE SCHED. FOR SIZE & RF

CONFINEMENT TIES (SEE COLUMN/SHEAR WALL SCHED. FOR SIZE & NO. PER SET)

& RFT.

A shall not be less than 40 mm,1.5 db,and 1 $\frac{1}{3}$ aggregate size.

OFFSET BENT LONGITUDINAL REINFORCEMENT:

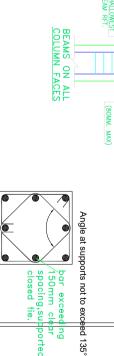
OFFSET BENT LONGITUDINAL BARS SHALL CONFORM TO THE FOLLOWING:

BEAMS ON SOME COLUMN FACES

(80MM. MAX)

S/2

- SLOPE OF INCLINED PORTION OF AN OFFSET BAR WITH AXIS OF COLUMN BEAM RET. SHALL NOT EXCEED 1
- PORTIONS OF BAR ABOVE AND BELOW AN OFFSET SHALL BE PARALLEL
- TO AXIS OF COLUMN.
- WHERE A COLUMN FACE IS OFFSET 75 MM OR GREATER, LONGITUDINAL BARS SHALL NOT BE OFFSET BENT.SEPARATE DOWELS, LAP SPLICED WITH THE LONGITUDINAL BARS ADJACENT TO THE OFFSET COLUMN FACES, SHALL BE PROVIDED. OFFSET BARS SHALL BE BENT BEFORE PLACEMENT IN THE FORMS



TIE REINFORCEMENT FOR COMPRESSION MEMBERS SHALL CONFORM TO THE FOLLOWING:

- ALL NONPRESTRESSED BARS SHALL BE ENCLOSED BY LATERAL TIES, AT LEAST NO. 10 IN SIZE FOR LONGITUDINAL BARS NO. 32 OR SMALLER, AND AT LEAST NO. 13 IN SIZE FOR NO. 36, NO. 43, NO. 57, AND BUNDLED LONGITUDINAL DEFORMED WIRE OR WELDED WIRE REINFORCEMENT OF EQUIVALENT AREA
- COMPRESSION MEMBER. VERTICAL SPACING OF TIES SHALL NOT EXCEED 16 LONGITUDINAL BAR DIAMETERS, 48 TIE BAR OR WIRE DIAMETERS, OR LEAST DIMENSION OF THE
- SHALL BE PERMITTED. FROM SUCH A LATERALLY SUPPORTED BAR. WHERE LONGITUDINAL BARS ARE LOCATED AROUND THE PERIMETER OF A CIRCLE, A COMPLETE CIRCULAR TIE A TIE WITH AN INCLUDED ANGLE OF NOT MORE THAN 135 DEG AND NO BAR SHALL BE FARTHER THAN 150 MM CLEAR ON EACH SIDE ALONG THE TIE TIES SHALL BE ARRANGED SUCH THAT EVERY CORNER AND ALTERNATE LONGITUDINAL BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF

max 7.5 cm

Not more than 7.5 cm

BEAM/GIRDER-COLUMN/
SHEAR WALL JOINT
TIES @10 cm (SEE SCHED.
FOR SIZE & NUMBER
PER SET)

CONFINEMENT TIES

(SEE COLUMN/SHEAR WALL
SCHED. FOR SIZE & NUMBER
PER SET)

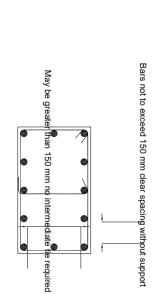
@ 10 cm

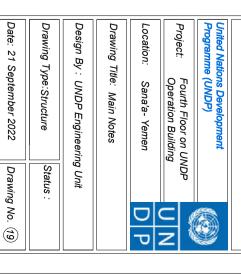
(<u>7.</u>5 cm

Greater than 7.5 cm

7.5 cm

- TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ANY STORY, AND SHALL BE SPACED AS PROVIDED HEREIN TO NOT MORE THAN ONE-HALF A TIE SPACING BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL
- CIRCULAR TIES SHALL BE PERMITTED WHERE LONGITUDINAL BARS ARE LOCATED AROUND THE PERIMETER OF A CIRCLE
- ANCHORAGE OF INDIVIDUAL CIRCULAR TIES SHALL BE IN ACCORDANCE WITH:
- **ENDS SHALL OVERLAP BY AT LEAST 150 MM**
- ENDS SHALL TERMINATE WITH STANDARD HOOKS THAT ENGAGE A LONGITUDINAL BAR.
- OVERLAPS AT ENDS OF ADJACENT CIRCULAR TIES SHALL BE STAGGERED AROUND THE PERIMETER ENCLOSING THE LONGITUDINAL BARS.





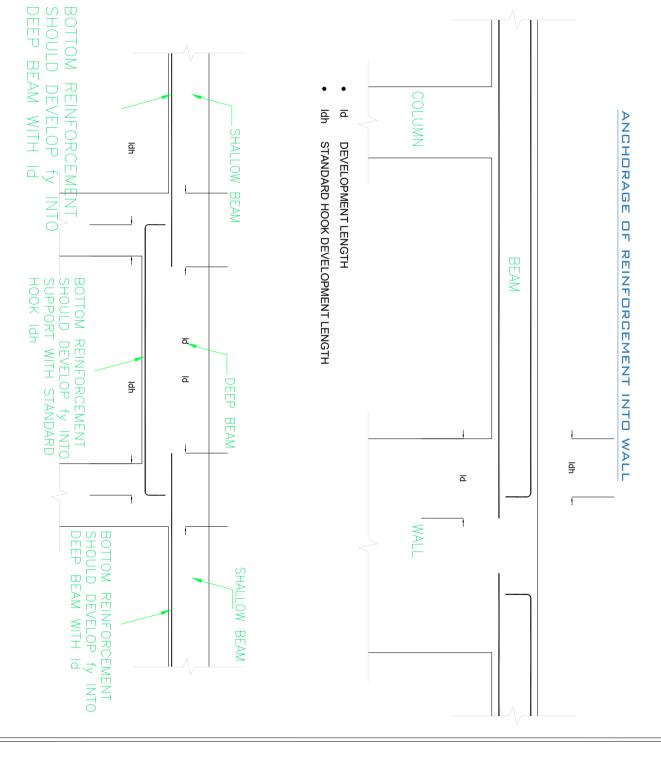
BEAM DETAILS

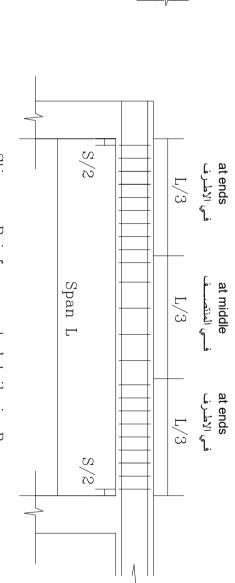
BAR-SPACING REQUIREMENTS:

THE MINIMUM CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL NOT BE LESS THAN THE LARGER OF 1.5 TIMES THE LONGITUDINAL BAR DIAMETER, OR 40 mm OR $\frac{1}{3}$ TIMES THE MAXIMUM SIZE OF THE COARSE AGGREGATE. THESE CLEAR-DISTANCE LIMITATIONS ALSO APPLY TO THE CLEAR DISTANCE BETWEEN LAP-SPLICED BARS AND ADJACENT BARS OF LAP SPLICES.

STRUCTURAL INTEGRITY REINFORCEMENT

- AT LEAST ONE-QUARTER OF THE MAXIMUM POSITIVE MOMENT
 REINFORCEMENT, BUT NOT LESS THAN TWO BARS SHALL BE CONTINUOUS.
- AT LEAST ONE-SIXTH OF THE NEGATIVE MOMENT REINFORCEMENT AT THE SUPPORT, BUT NOT LESS THAN TWO BARS SHALL BE CONTINUOUS.
- LONGITUDINAL REINFORCEMENT SHALL BE ENCLOSED BY CLOSED STIRRUPS OR HOOPS ALONG THE CLEAR SPAN OF THE BEAM.
- LONGITUDINAL STRUCTURAL INTEGRITY REINFORCEMENT AT NONCONTINUOUS SUPPORTS SHALL BE ANCHORED TO DEVELOP FY AT THE FACE OF THE SUPPORT.
- IF SPLICES ARE NECESSARY IN CONTINUOUS STRUCTURAL INTEGRITY
 REINFORCEMENT, THE REINFORCEMENT SHALL BE SPLICED IN ACCORDANCE WITH:
- •• POSITIVE MOMENT REINFORCEMENT SHALL BE SPLICED AT OR NEAR THE SUIPPORT
- •• NEGATIVE MOMENT REINFORCEMENT SHALL BE SPLICED AT OR NEAR MIDSPAN.
- •• SPLICES SHALL BE CLASS B TENSION LAP SPLICES.
- IF THE DEPTH OF A CONTINUOUS BEAM CHANGES AT A SUPPORT, THE BOTTOM REINFORCEMENT IN THE DEEPER MEMBER SHOULD BE TERMINATED INTO THE SUPPORT WITH A STANDARD HOOK AND THE BOTTOM REINFORCEMENT IN THE SHALLOWER MEMBER SHOULD BE EXTENDED INTO AND FULLY DEVELOPED IN THE DEEPER MEMBER.





L/7

L/5

L/4

L/4

Span L

Span L

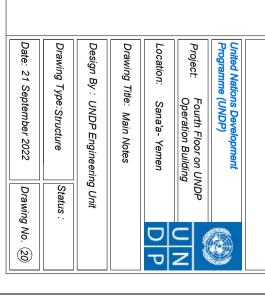
Reinforcement details in continuous Beam

L/5

L/3

L/3

Stirrups Reinforcement details in Beam



GENERAL

- ITHESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONTRACT DRAWINGS, SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- 2DIMENSIONS ARE AS SHOWN. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- SSETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.
- വ ADURING CONSTRUCTION THE STRUCTURE WILL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- SALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATED CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
- . SREFER TO ARCHITECTURAL DRAWINGS FOR BRICK WALL THICKNESSES WHERE NOT MENTIONED ON THESE DRAWINGS AND FOR FALLS IN SLABS, EXTRA PACKINGS. CONSTRUCTION JOINTS, FILLING MATERIALS AND ALL OTHER ARCHITECTURAL FEATURES.

ROOFS	COMRCALTION	Office	 	FLOOR USAGE
1.5 KN/M2	4.0 KN/M2	2.4 KN/M2		DESIGN LIVE LOAD
			CALTION 1	CALTION

- TTHE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS.
- Ō USED IN THE PROJECT. BREFER TO ARCHITECTURAL DRAWINGS FOR THE DIFFERENT CONSTRUCTION MATERIALS TO BE

CONCRETE

- C. 1ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND AMERICAN CONCRETE CODE ACI318-M (1995-REINFORCED CONCRETE STRUCTURES).
- C. 2CONCRETE QUALITY: MINIMUM CONCRETE CUBE STRENGTH (F'C MPA) IS IN TABLE OR STATED IN DRAWING NOTES S

BEAMS & SLABS	COLUMNS	LINING SLABS FOOTINGS & WALLS	ELEMENT
80	80	80	SLUMP
20	20	20	MAX AGG SIZE
26	26	21	MINIMUM CONCRETE CUBE STRENGTH F'c MPA

C. 3CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS INDICATED ON DRAWINGS OR THE TABLE BELOW (U.N.O.):-

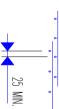
E) <u>COLUMNS</u> LONGITUDINAL REINF. TIES & STIRRUPS	D) <u>BEAMS</u> LONGITUDINAL REINF. TIES & STIRRUPS	C) SLABS, WALLS & RIBS 20MM BARS OR WIRE AND SMALLER	B) STRIP FOOTINGS	A) PAD FOOTINGS	ELEMENT
75 75	75 75	75	75	75	CAST AGAINST & EXPOSED TO EARTH
50 40	50 40	35	I	I	CONCRETE COVER EXPOSED TO EARTH OR WEATHER
40 25	40 25	20	ĺ	I	NOT EXPOSED TO WEATHER OR EARTH

- C. 4SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED INISHES.
- C. SCONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE A ENGINEER. THICKNESS, IF ANY. APPROVAL OF THE
- C. 6BEAM DEPTHS INCLUDE SLAB.
- C. 7NO HOLES OR CHASES ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C. 8PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER. THE CONCRETE COVER TO EMBEDDED PIPES OR CONDUITS SHALL BE A MINIMUM OF 20MM.

REINFORCEMENT

- R. 1REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- R. 2SPLICES IN THE REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES. WHERE THE LAP LENGTH IS NOT SHOWN IT WILL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT
- R. 3WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN DRAWINGS. ON THE STRUCTURAL
- . 4REINFORCEMENT: YIELDING STRESS OF STEEL IS GRADE 60ASTM 420- MPA OR GRADE 40ASTM 280MPA AS STATED IN DRAWING NOTES.

TYPICAL FABRIC LAP:



- R. SALL REINFORCEMENT FABRIC SHALL BE SUPPLIED AS FLAT SHEETS.
- R. 6PLACE SUFFICIENT BAR CHAIRS UNDER BOTTOM REINFORCING RODS AND TOP CROSSROADS IN SLABS TO ALLOW THEM TO BE SUPPORTED IN THEIR CORRECT POSITIONS DURING CONCRETING. 900MM CENTERS BOTH WAYS. NOT GREATER THAN
- R. 7ADDITIONAL TOP REINFORCEMENT SHOULD BE USED ON EXPOSED ROOF SHRINKAGE AND IMPROVE WATERPROOFING. SLABS TO CONTROL

United Nations Development Programme (UNDP)

Fourth Floor on UNDP
Operation Building

Drawing Title: Main Notes

Design By: UNDP Engineering Unit

Date: 21 September 2022

Drawing No. (21)

Drawing Type:Structure

Status :

