

job title

MALL BUILDING



M

Eng MAJ D A bana

المصمم الاستشاري

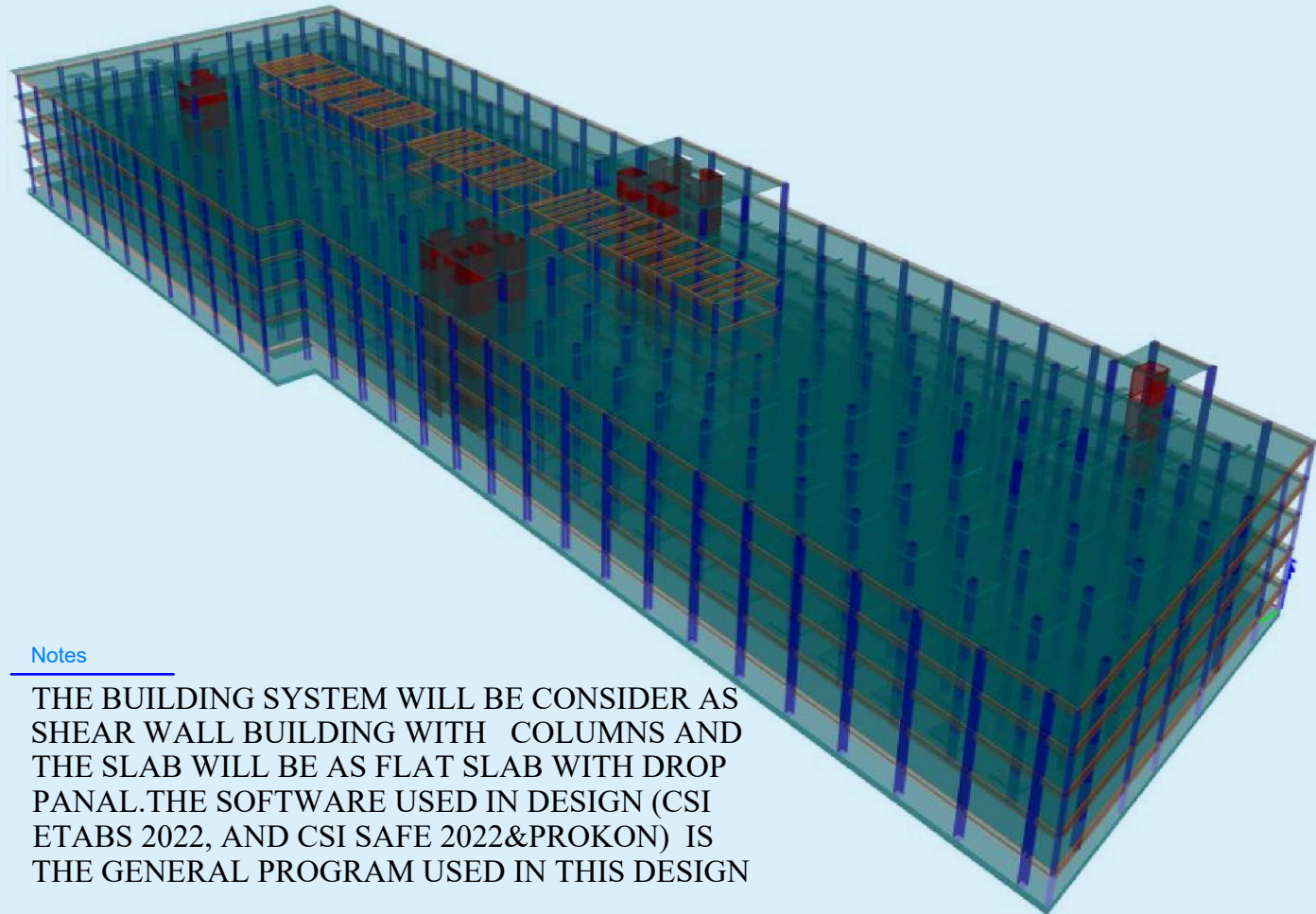
د. ماجد البنا

+964 770 272 4811

+964 782 595 3403

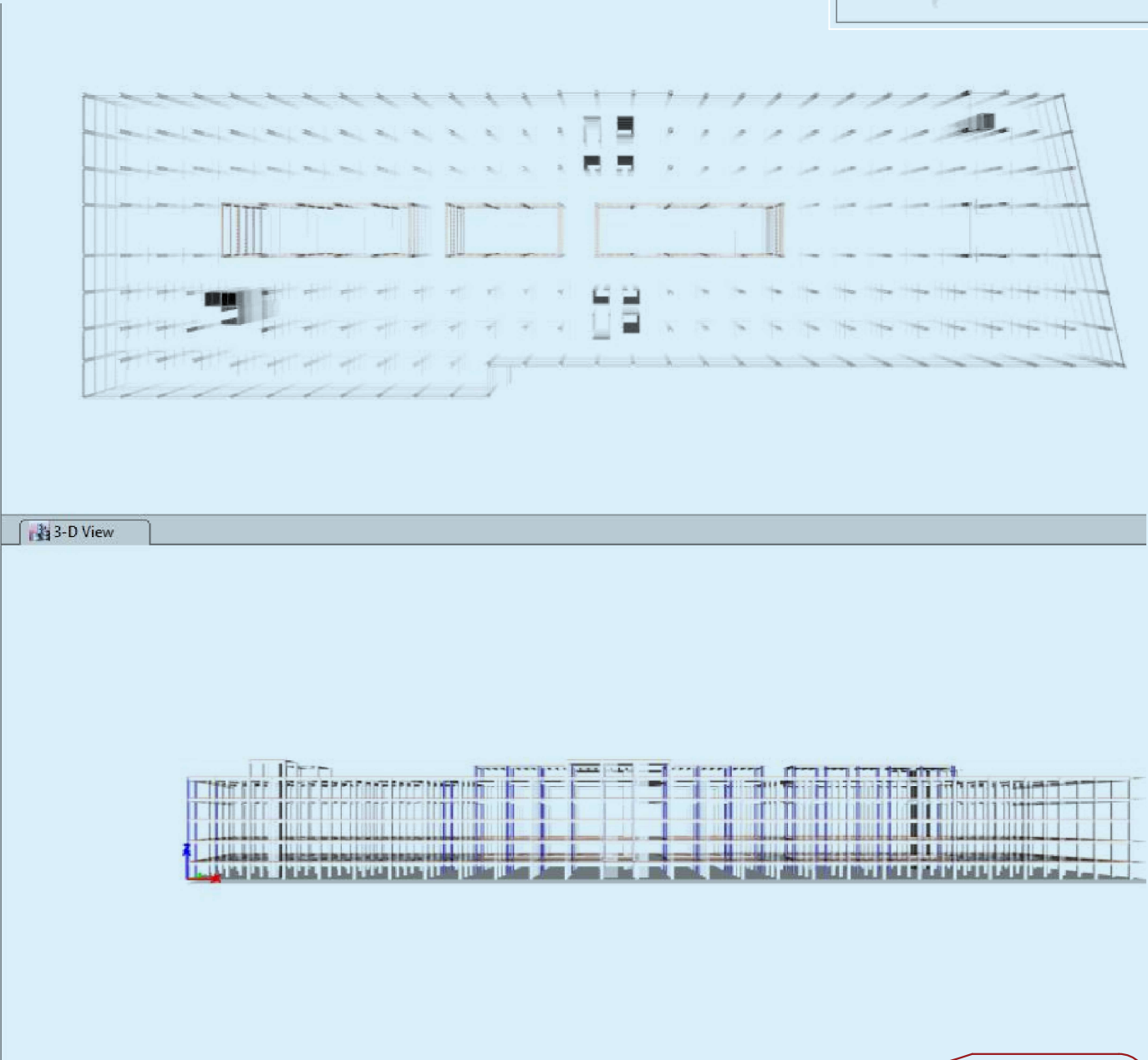
www.majidalbana.com

majidalbana@hotmail.com

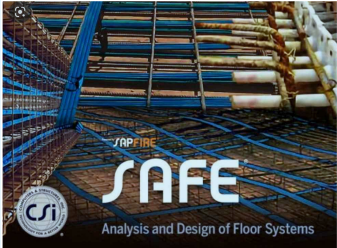
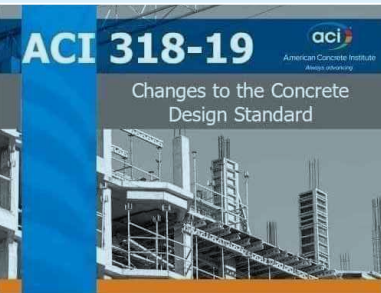


Notes

THE BUILDING SYSTEM WILL BE CONSIDER AS SHEAR WALL BUILDING WITH COLUMNS AND THE SLAB WILL BE AS FLAT SLAB WITH DROP PANEL.THE SOFTWARE USED IN DESIGN (CSI ETABS 2022, AND CSI SAFE 2022&PROKON) IS THE GENERAL PROGRAM USED IN THIS DESIGN



THE COPYRIGHTS OF THESE PLANS AND DRAWINGS ARE RESERVED FOR DR-MAJID AL BANA



DRWG. TITLE:

DESIGNED BYDR-Majid Albana

CHECKED BY

SCALEAs Shown

DATE10 /2023

SHEET NO.

Str.1

1. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS, (DO NOT SCALE FROM DRAWINGS).
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS IN METRES (UNO).
3. THE STRUCTURAL DRAWINGS SHOULD BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, CIVIL, PLUMBING AND ELECTRICAL DRAWINGS.
4. ALL OPENINGS SIZE AND LOCATION SHOULD BE VERIFIED AND CHECKED WITH SERVICES DRAWINGS, WHERE OPENINGS SIZES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, SITE ENGINEER SHALL INTRODUCE SUCH OPENINGS WITH PROPER FRAMING INCLUDING ANY REVISION TO THE SIZES SHOWN ON THE DRAWINGS.
5. DESIGN STANDARD & LOADS :-
 - DESIGN & CONSTRUCTION OF REINFORCED CONCRETE STRUCTURES MEMBERS SHALL IN ACCORDANCE WITH ACI-318-95 (ULTIMATE STRENGTH DESIGN METHOD).
 - ALL RETAINING WALL STRUCTURE SHOULD BE AS BRITISH 8 97- 110 or ACI - 93 - 318.
 - MASONRY BRICK OR CONCRETE BLOCK ACCORDING TO B.S - 5628.
6. LOADING :-
 - MINIMUM DESIGN LOAD (LIVE LOAD) ACCORDING TO IBC-09.
 - SEISMIC LOAD ACCORDING TO IRAQI SEISMIC CODE 1997.
 - WIND LOAD ACCORDING TO ASCE-05.
7. FOR TYP. SECTIONS & DETAILS SEE ST-G2.

1. FOUNDATION DESIGN BASED ACCORDING TO THE SOIL REPORT PREPARED BY THE
& RESEARCH () 2023\11\14).
2. BEARING CAPACITY ACCORDING TO THE SOIL REPORT IS (10K/m²) AT DEPTH OF (-4.00m)
BELOW THE EXISTING N.G.L.
3. A WELL COMPACTED SUB-BASE LAYERS OF A TOTAL THICK AS INDICATED IN THE DWG.
SHOULD BE USED UNDER FOOTING WITH FOLLOWING SPECIFICATIONS :-
 - THE DIMENSION OF THE SUB-BASE LAYERS SHOULD BE LARGER THAN THE DIMENSIONS OF
THE FOUNDATION FROM ALL SIDES BY 0.25m.
 - THE VALUE OF CALIFORNIA BEARING RATIO (C.B.R) SHALL NOT BE LESS THAN (35% ASTM D)
1883 AT 95% OF THE MAXIMUM DRY DENSITY ESTABLISHED ACCORDING TO (ASTM D)1557.
 - LIQUID LIMIT ≤ 25%.
 - PLASTICITY INDEX ≤ 6%.
 - ORGANIC MATERIAL ≤ 2%.
 - SO₃ ≤ 5%.
 - TOTAL SOLUBLE SALTS ≤ 5%.
 - GYPSUM CONTENT ≤ 10.75%.
 - RELATIVE COMPACTION 95% (MODIFIED PROCTOR).

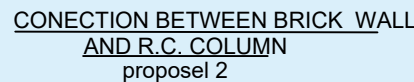
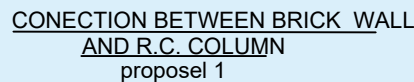
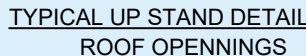
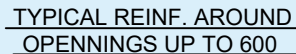
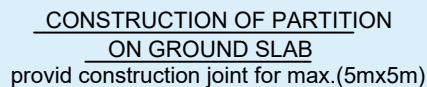
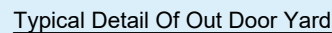
1. CONSTRUCTION JOINT :-
 - CONSTRUCTION JOINT IN FLOORS SHOULD BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS, BEAMS & GIRDERS, JOINT IN GIRDER SHOULD BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS.
 - AT CONSTRUCTION JOINTS SURFACES SHOULD BE ROUGHENED BY BROOMING OUT MORTAR, EXPOSING 12mm OF COARSE AGGREGATE TWO HOURS AFTER PLACING CONCRETE.
 - CONSTRUCTION JOINTS FOR STRUCTURAL SLAB / FOUNDATION / WALLS ETC. AND VOLUME OF CASTING IN A POUR SHOULD BE APPROVED BY THE ENGINEER.
 - CONSTRUCTION JOINTS SHOULD BE DOWELED, KEYED AND THOROUGHLY CLEANED, ALL CONSTRUCTION JOINTS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS, CONTRACTOR HAVE TO PREPARE ANY MISSING DETAILS NOT COVERED IN THE STRUCTURAL DRAWINGS AND SUBMIT FOR ENGINEER'S APPROVAL.
2. WATERPROOFING :-
 - WATER STOPS SHOULD BE USED AT ALL CONSTRUCTION, CONTRACTION & EXPANSION JOINTS, WHERE WATERPROOFING SYSTEM IS APPLIED ALL INTERSECTION PIECES OF WATER STOPS SHOULD BE FACTORY MOLDED.
 - ALL CONCRETE WORKS IN CONTACT WITH SOIL FOR NORMAL STRUCTURE SHOULD BE COATED WITH PROTECTIVE LAYER.

MEMBER TYPE \ LOCATIONS	MINIMUM 28 DAYS CUBE COMPRESSIVE STRENGTH(f_{cu}) (MPa)	AGGREGATE MAX. SIZE
SCREED	20	10 mm
BLINDING OR LEAN CONCRETE	20	20 mm
SLABS	35	20 mm
PILES	-	20-38 mm
FOUNDATIONS	40	20 mm
COLUMNS AND SHEAR WALLS	45	20 mm
SUSPENDED SLAB, BEAMS AND WALLS	35	20 mm
WATER RETAINING STRUCTURES	-	20 mm
PLAIN CONCRETE	25	20 mm

- | MEMBER | (mm) |
|-----------------------|------|
| SLABS | 25 |
| BEAMS & GIRDERS | 40 |
| COLUMNS | 40 |
| INTERIOR WALLS | 25 |
| EXTERIOR FACE OF WALL | 40 |
| FORMED FOUNDATION | 50 |
| NON-FORMED FOUNDATION | 75 |

- | | | | | | | | |
|---------------------------------|-----|-----|-----|-----|-----|------|------|
| BAR DIA.(mm) | 10 | 12 | 16 | 18 | 20 | 22 | 25 |
| LAP LENGTH (mm) IN COLUMNS | 400 | 500 | 600 | 650 | 700 | 800 | 900 |
| LAP LENGTH (mm) IN F.I.SF WHERE | 400 | 600 | 700 | 800 | 900 | 1000 | 1250 |

- WHERE COLUMN FACE ARE OFFSET 75mm OR MORE SPLICE OF VERTICAL BARS TO THE OFFSET FACE SHOULD BE MADE BY SEPARATE DOWELS OVER LAP AS SPECIFIED ABOVE.
 - WHERE A LONGITUDINAL BARS ARE OFFSET AT SPLICE THE SLOPE OF INCLINED ADJACENT PORTION SHALL NOT EXCEED 1:6 (HORIZONTAL:VERTICAL).
 - CHANGING OF REINFORCEMENT BETWEEN FLOORS WHERE SUCH SITUATION OCCURS THE REINFORCEMENT OFF SHOULD BE CUT OFF AT DISTANCE 75mm BELOW FLOOR LEVEL SPACED 100mm AND PLACED BEFORE THE POINT OF BEND.
 - WHERE LONGITUDINAL BARS OFFSET, PROVIDE 4TIES.
9. HOT & COLD WETHERING SHOULD BE ACCORDING TO ACI-305R-99.
 10. ALL REINFORCING BAR BENDS TO BE MADE COLD.
 11. IN ONE-WAY SLAB, SHRINKAGE & TEMPERATURE REINF. STEEL EXTENDING IN THE LONG DIRECTION SHALL BE PLACED IN THE PLACE OF, AND TIED TO THE MAIN REINF. EXTENDING IN THE SHORT DIRECTION.
 12. MIXING & PLACING CONCRETE SHOULD BE DONE ACCORDING TO ACI - 318M - 95 (CHAPTER 5) CONDUIT OR PIPE SIZE SHALL NOT EXCEED 30% OF SLAB THICKNESS UNLESS SPECIFICALLY DETAILED. OTHERWISE CONCENTRATIONS OF CONDUITS OR PIPES SHOULD BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED, ALL SUBJECTED TO ENGINEER'S APPROVAL.

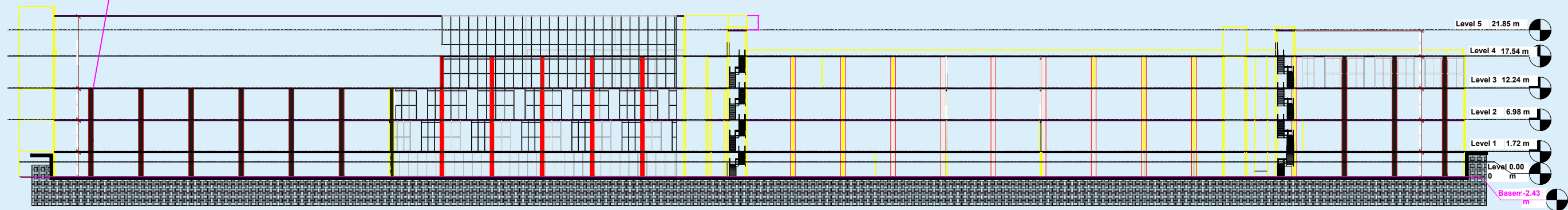
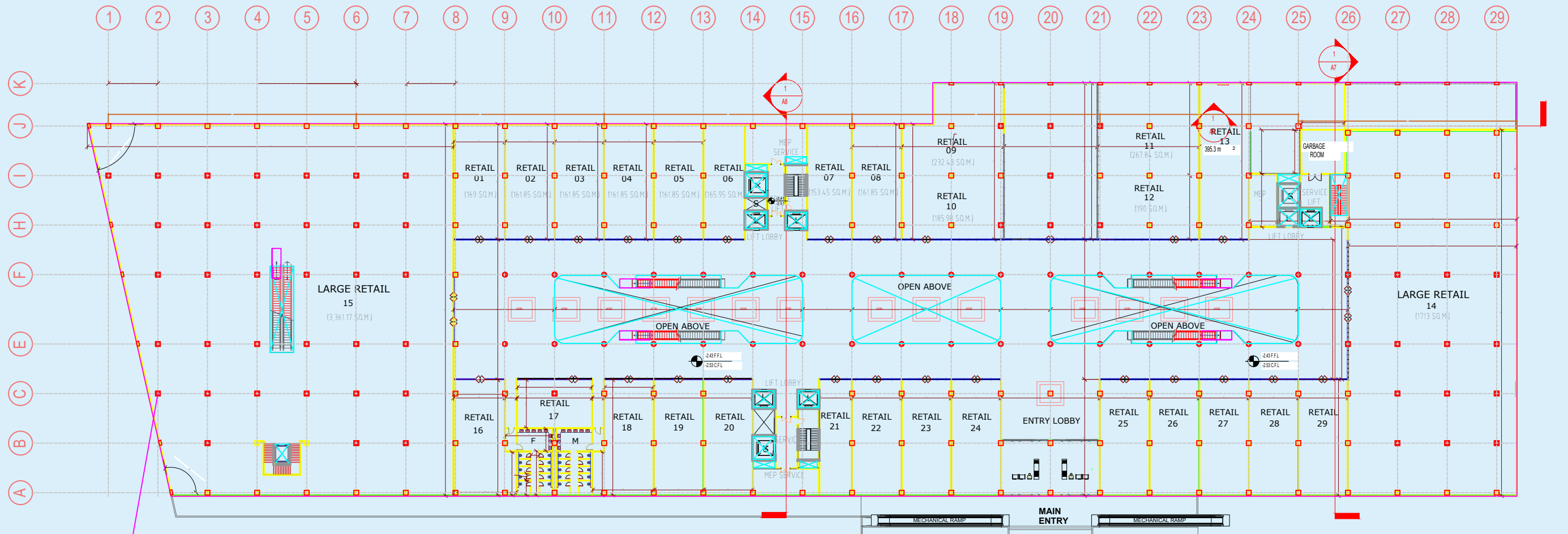


ADD	ADDITIONAL
ARCH	ARCHITECTURAL
B	BEAM
BOTT	BOTTOM
C1	COLUMN TYPE C1
CANT	CANTILEVER
CJ	CONSTRUCTION JOINT
CL	CENTRE
C	COLUMN
CONC	CONCRETE
DET	DETAIL
DIM	DIMENSION
DWG	DRAWING
D	DEPTH
E.A	EACH
E.F	EACH FACE
E.J	EXPANSION JOINT
ELEV	ELEVATION
E.W	EACH WAY
EXP	EXPANSION
F	FOOTING
F1	FOOTING TYPE-1
FDN	FOUNDATION
F.F.L	FINISH FLOOR LEVEL
GEN	GENERAL
GL	GRID LINE
LL	LIVE LOAD
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
mm	MILLIMETRES
SEC	SECTION

[illegible]

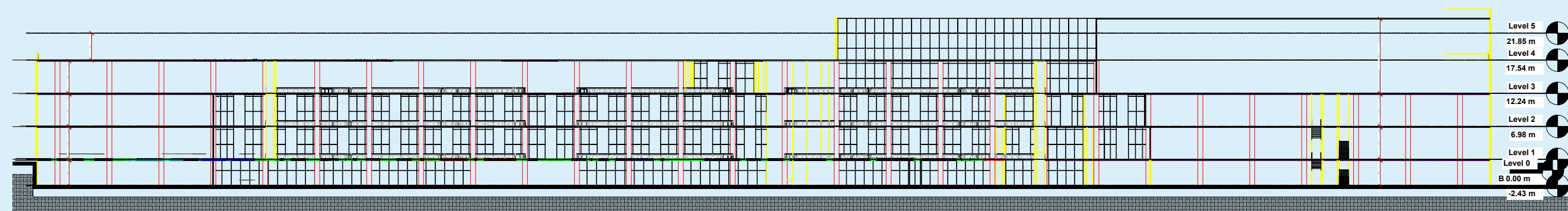


Area =15172 m2



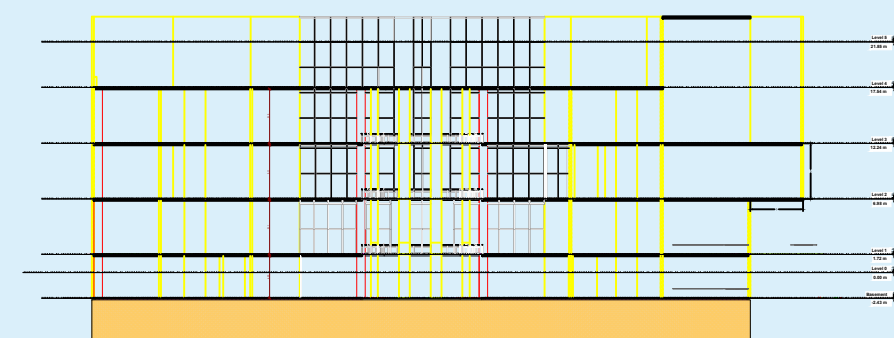
SEC 5

no.	date	initials	revision
job title			
(A)			
drawing title			
Plan of Basement floor			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	10 /2023
approved		job no.	4
		sheet no.	ST/D/06



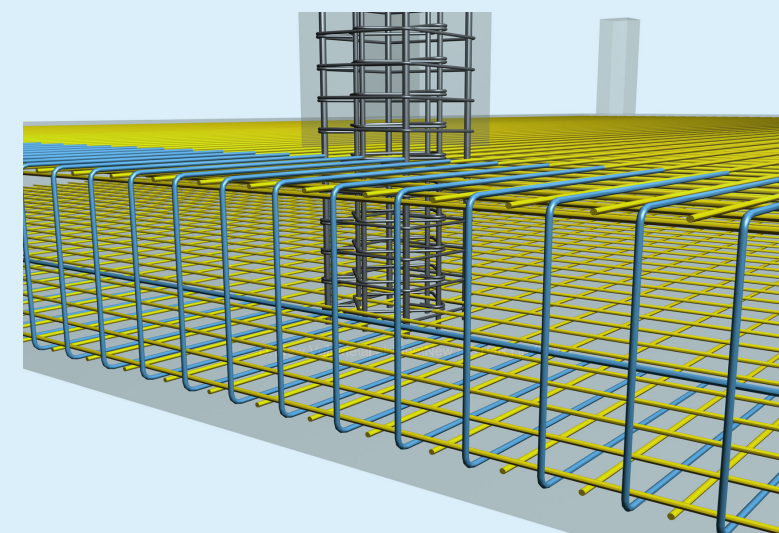
Technical drawing of a building facade section. The drawing shows a cross-section of a building with a grid system. The grid lines are labeled with letters A through J. The drawing includes structural elements such as columns, beams, and floor slabs. The drawing is oriented horizontally, with the building's length along the horizontal axis and the height along the vertical axis. The drawing is a detailed architectural section showing the internal structure of a building facade. It includes a grid system with vertical lines labeled A through J and horizontal lines labeled 1 through 5. The drawing shows the building's footprint, including columns, beams, and floor slabs. The drawing is oriented horizontally, with the building's length along the horizontal axis and the height along the vertical axis. The drawing is a detailed architectural section showing the internal structure of a building facade. It includes a grid system with vertical lines labeled A through J and horizontal lines labeled 1 through 5. The drawing shows the building's footprint, including columns, beams, and floor slabs. The drawing is oriented horizontally, with the building's length along the horizontal axis and the height along the vertical axis. The drawing is a detailed architectural section showing the internal structure of a building facade. It includes a grid system with vertical lines labeled A through J and horizontal lines labeled 1 through 5. The drawing shows the building's footprint, including columns, beams, and floor slabs. The drawing is oriented horizontally, with the building's length along the horizontal axis and the height along the vertical axis.

SEC7



SEC8

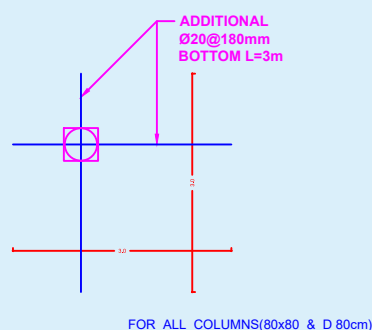
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job title		
(A)		
drawing title		
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designed	project manager	
checked	scale	date
	1-100	10 / 2
drawn	job no.	sheet no.
	5	
approved		\$T/D



-F_{ax} = 40 K/segment
-F_y = 400 K/segment

CONCRETE COVERS

-SLABS	= 25 mm
-BEAMS	= 40 mm
-COLUMNS	= 40 mm
-WALLS	= 25 mm
-SLAB ON GRADE	= 50 mm
-RAFT FOUNDATION	= 75 mm



MINIMUM LAP LENGTH (UNLESS NOTED ON DRAWINGS) SHOULD BE AS TABLE BELWO :-

BAR DIA.(mm)	10	12	16	18	20	22	25
LAP LENGTH (mm) IN COLUMNS	400	500	600	650	700	800	900
LAP LENGTH (mm) IN R/S BEAMS	400	600	700	800	900	1000	1250

. all dim. from ARCH D.W.G.

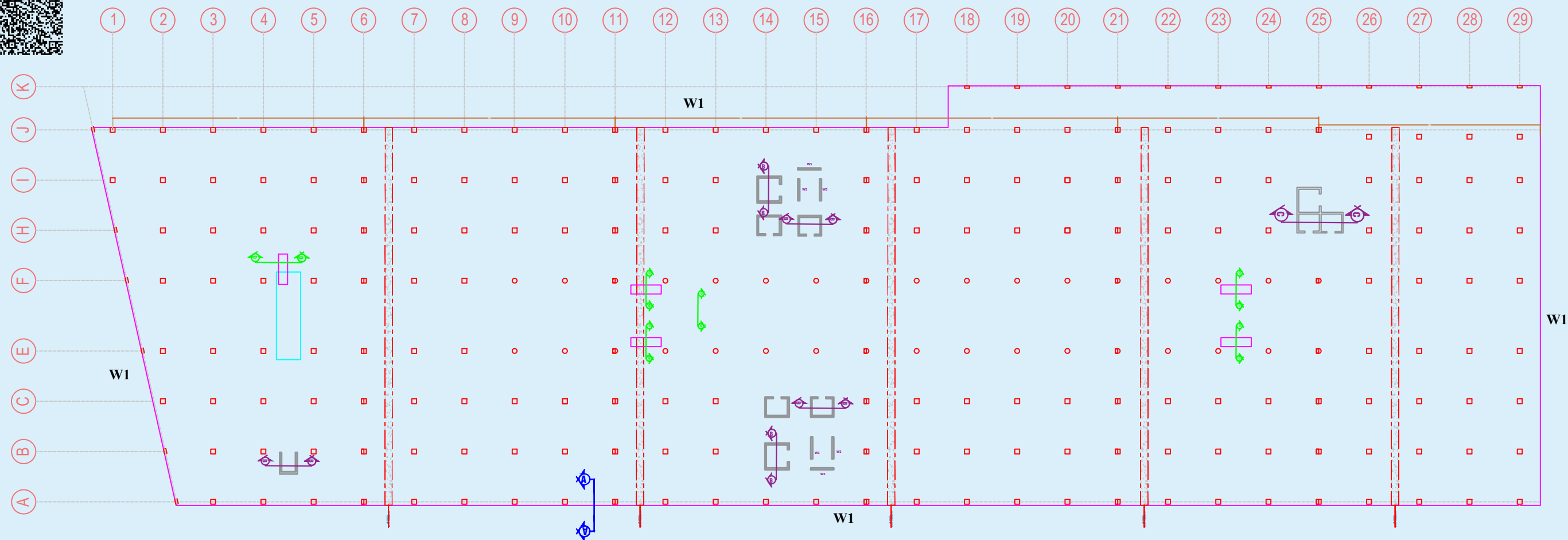
Foundation Plan

THICK. = 1000 mm

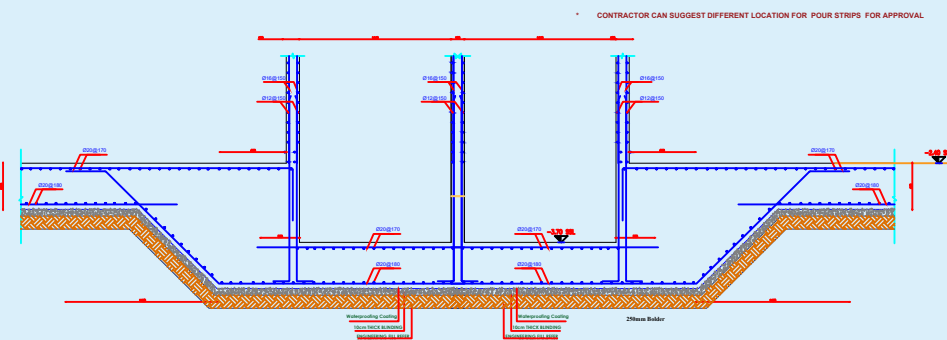
no.	date	initials	revision
job title			
(A)			
drawing title			
PLAN OF FOUNDATION			
designed	project manager		
checked	scale 1-100		date 10/2
drawn	job no.	sheet no.	
approved	6		ST/D/



no.	date	initials	revision
job title			
(A)			
drawing title			
<h1 style="text-align: center;">Foundation Plan</h1>			
designed ENG : DR-Majdi Albana		project manager	
checked	scale 1-100	date 10 / 2023	
drawn	job no. 7	sheet no.	
approved			ST/D/06

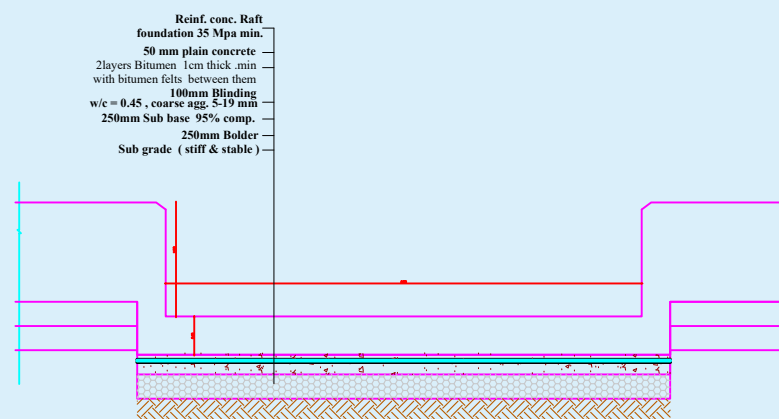


* LOCATION FOR POUR STRIP SHOULD BE AS INDICATED ON DRAWINGS

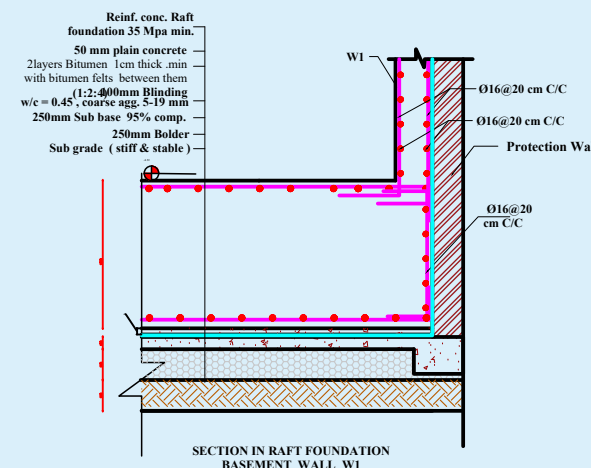


Foundation Plan
THICK. = 1000 mm

FOUNDATION DETAILS
TYPICAL SECTION (C-C)/LIFT PIT

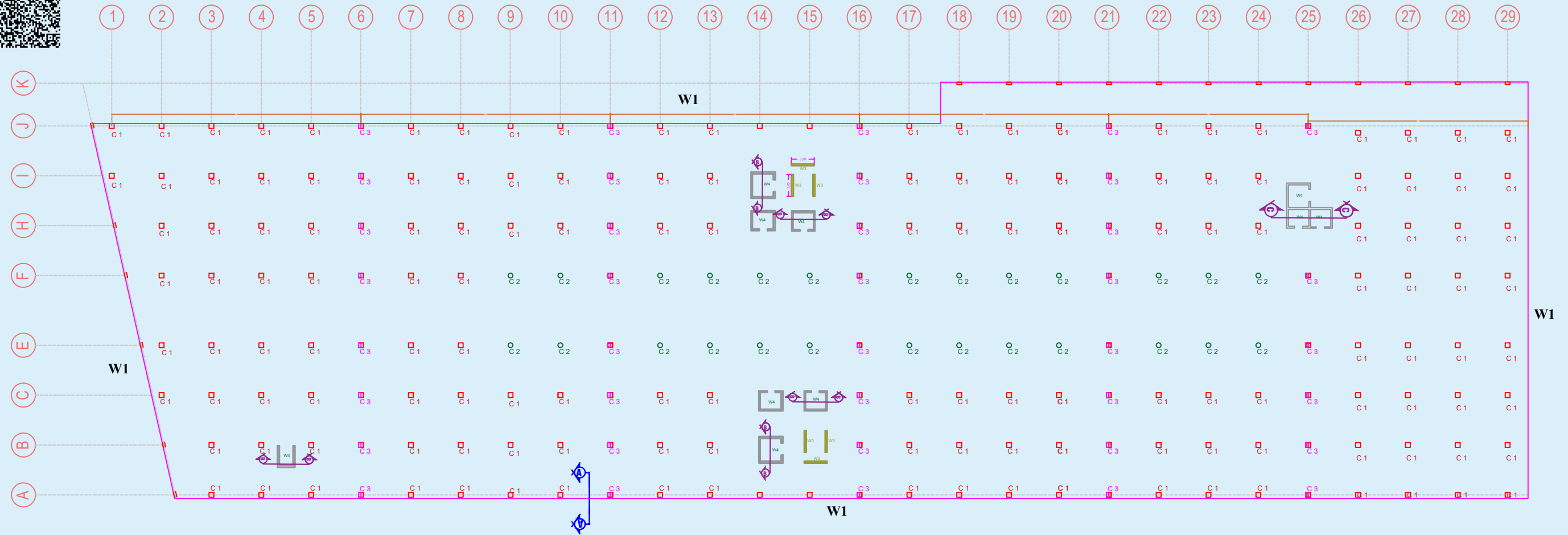


Typical Section (D-D)



Typical Section (A-A) of raft foundation

no.	date	initials	revision
job title			
(A)			
drawing title			
PLAN OF FOUNDATION			
designed		project manager	
checked		scale	
drawn		date	
approved		job no.	
		sheet no.	
		8	
		ST/D/06	



Notes

-Fcu = 45 N/mm2
-Fy = 420 N/mm2.

CONCRETE COVERS

-SLABS = 25 mm
-BEAMS = 40 mm
-COLUMNS = 40 mm
-WALLS = 25 mm
-SLAB ON GRADE = 50 mm
-RAFT FOUNDATION = 75 mm

-THE GEOTECHNICAL THE BEARING
CAPACITY OF THE SOIL = 100 kN/m2
-THE BUILDING IS DESIGNED FOR
BASEMENT + GROUND FLOOR +3 FLOORS
+ PENT-HOUSE

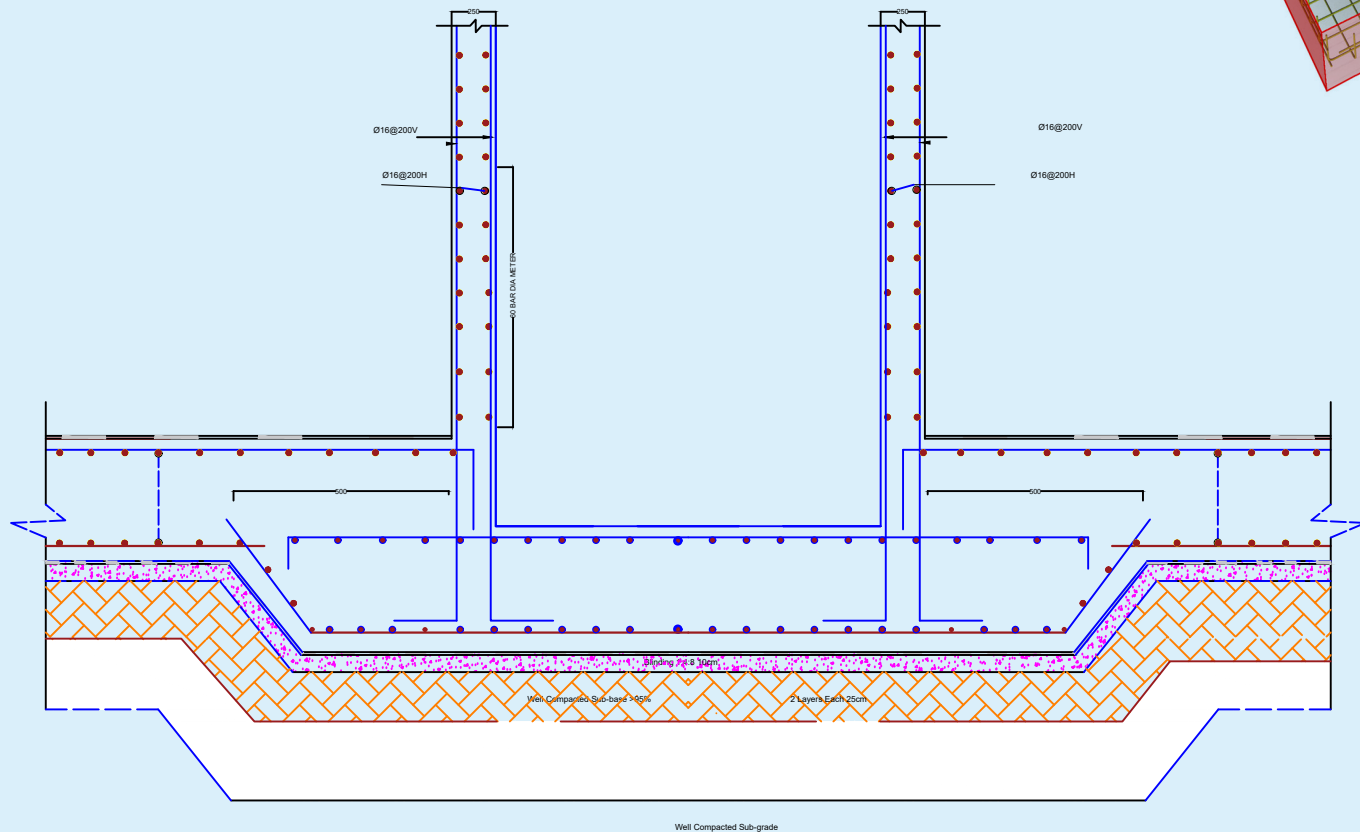
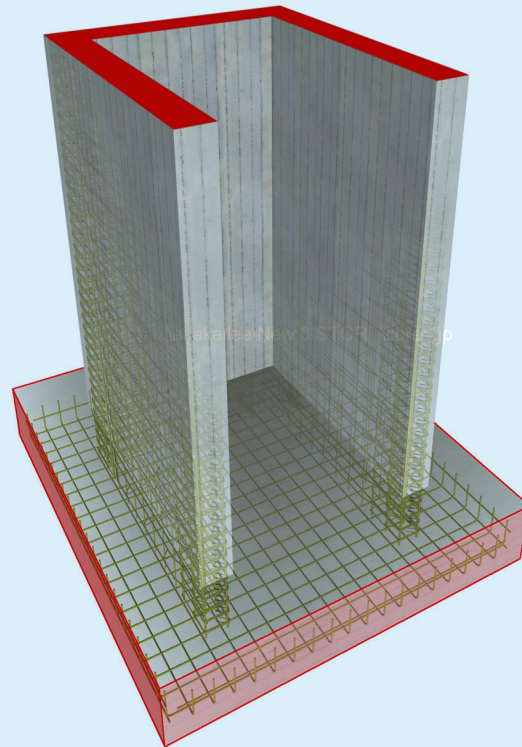
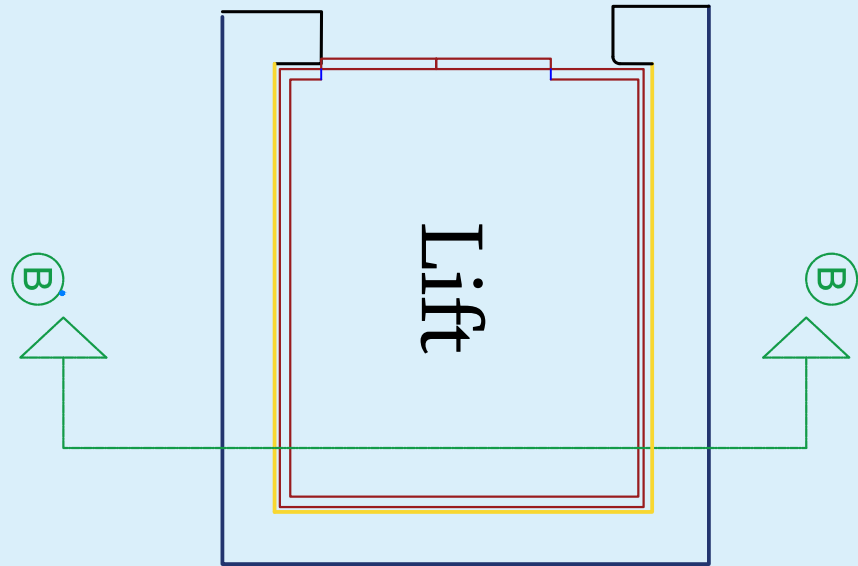


SCHEDULE OF COLUMNS AND WALLS

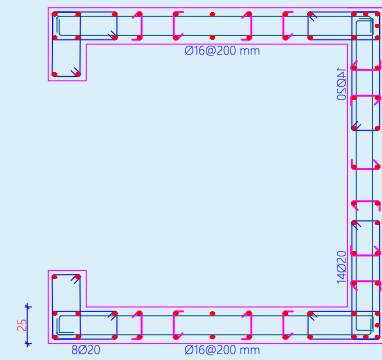
COLUMNS OR WALLS ID	SIZE		REMARK
	(mm)	WIDTH (mm)	
C1	800	800	
C2	800		
C3	800	400	
W3	dwg.	300	
W4	dwg.	dwg.	lift <input type="checkbox"/>

COLUM & WALL KEY PLAN

no.	date	initials	revision
job title			
(A)			
drawing title			
COLUM & WALL KEY PLAN			
designed	project manager		
checked	scale	date	
drawn	1-100	10 / 2023	
approved	job no.	sheet no.	
	9	ST/D/06	

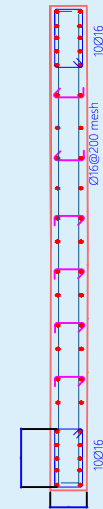


Section B'-B'

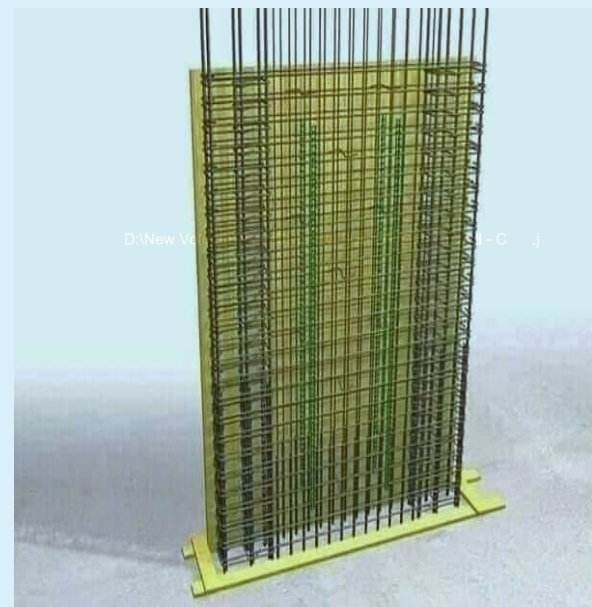


Section B-B

W1 Reinf.



W3 Reinf.



MINIMUM LAP LENGTH (UNLESS NOTED ON DRAWINGS) SHOULD BE AS TABLE BELWO :-

BAR DIA.(mm)	10	12	16	18	20	22	25
LAP LENGTH (mm) IN COLUMNS	400	500	600	650	700	800	900
LAP LENGTH (mm) IN ELSE WHERE	400	600	700	800	900	1000	1250

M

Eng MAJ D A bana

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+964 782 595 3403

المصمم الاستشاري

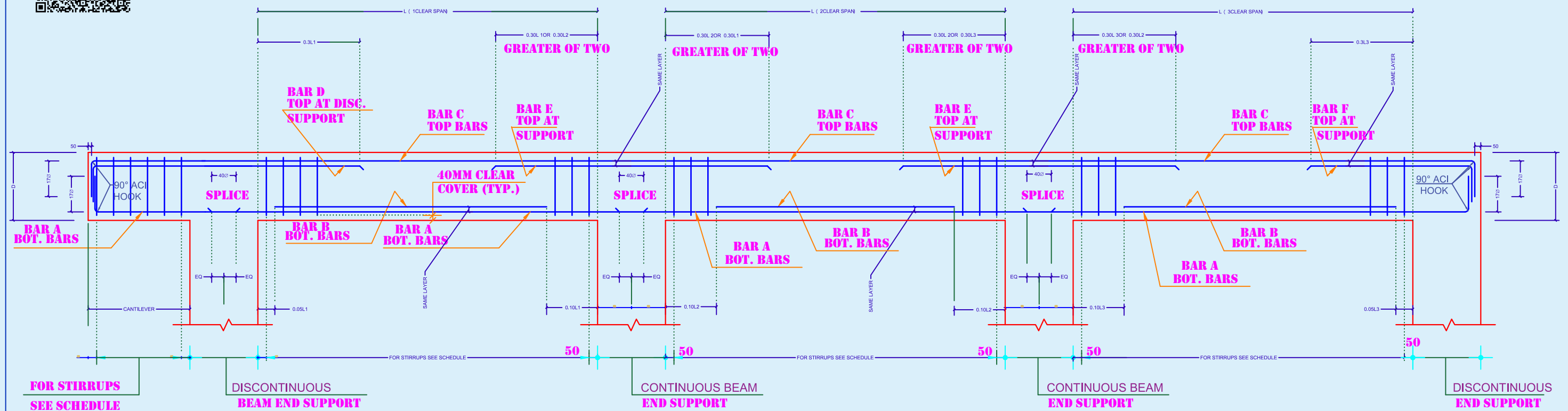
د. ماجد البنا

C:\Users\Dem Pictures\card1.jpg

www.majidalbana.com

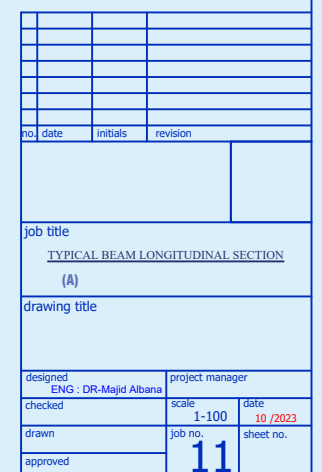
majidalbana@hotmail.com

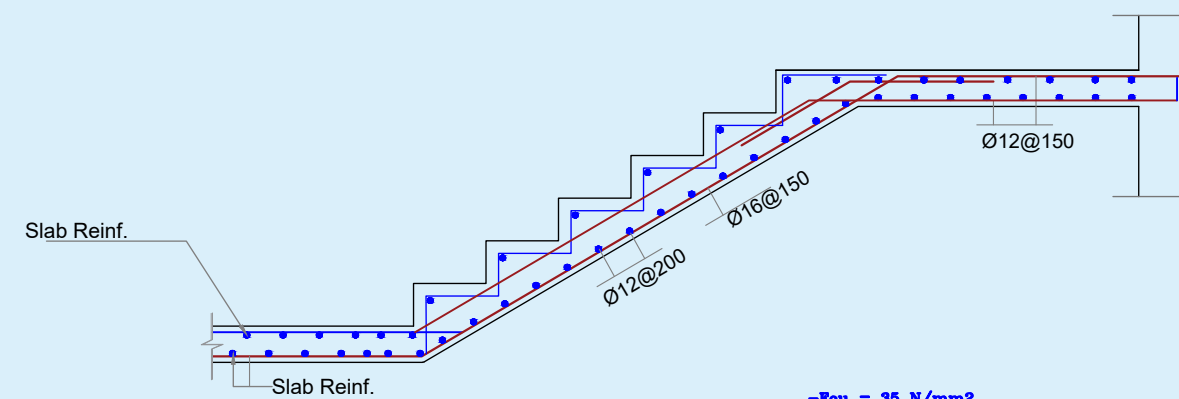
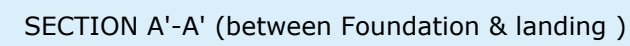
no.	date	initials	revision
job title			
(A)			
drawing title			
Section A'-A' lift detail			
designed	ENG : Majid Albana	project manager	
checked	ENG : Majid Albana	scale	1-100
drawn	ENG : Majid Albana	date	10 /2023
approved		job no.	
		sheet no.	
		9.1	ST/D/06



NOT TO SCALE

1. REFER TO BEAM SCHEDULE FOR NO. AND SIZE OF TOP AND BOTTOM BARS REQUIRED PER BEAM.
2. PROVIDE 60MM CENTRE TO CENTRE WHEN SCHEDULES CALL FOR 2 LAYERS OF REBARS.
3. FOR CANTILEVER BEAMS OR RIBS, BARS SHOULD BE EXTENDED UP TO ONE HALF THE CANTILEVER SPAN.



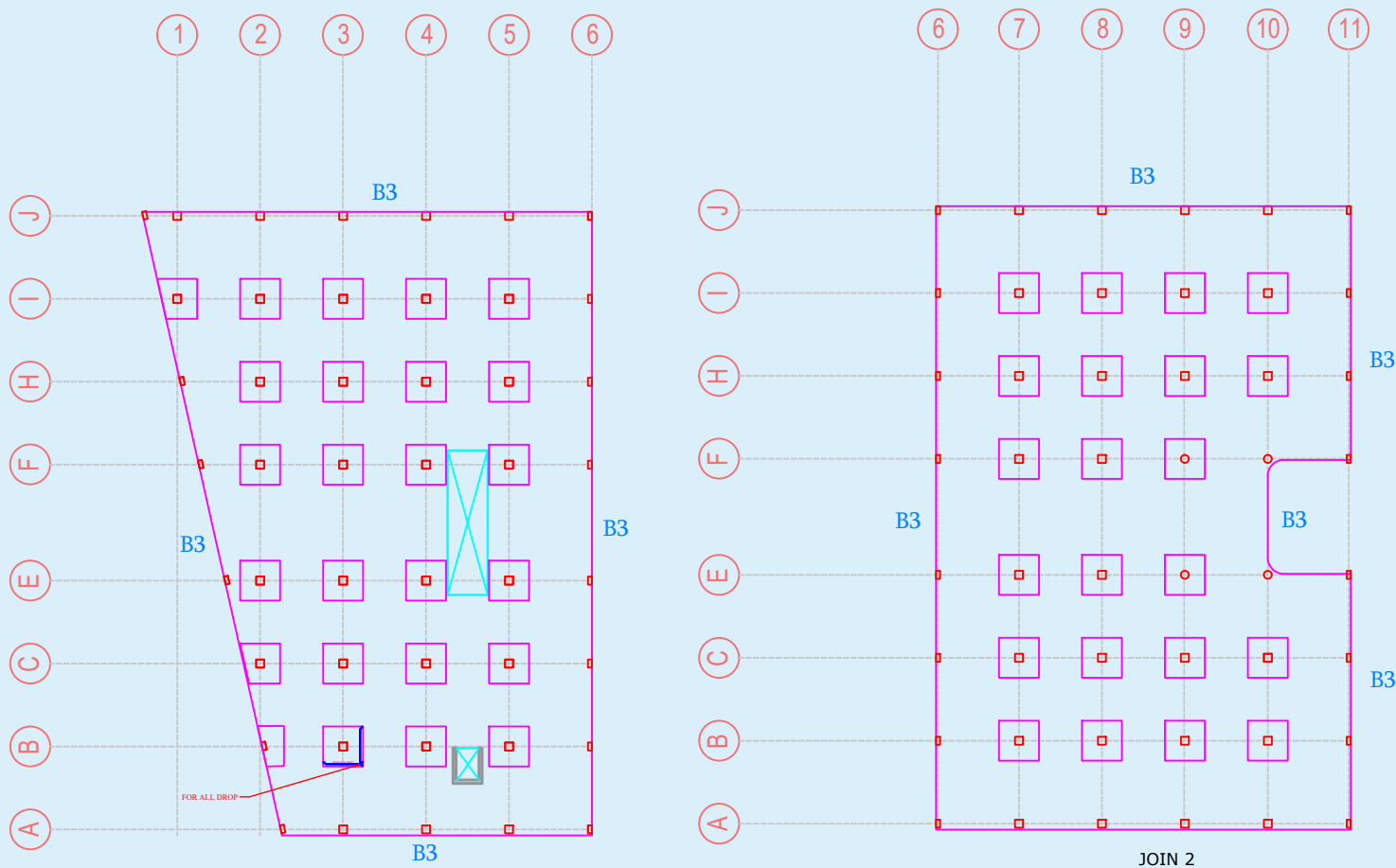
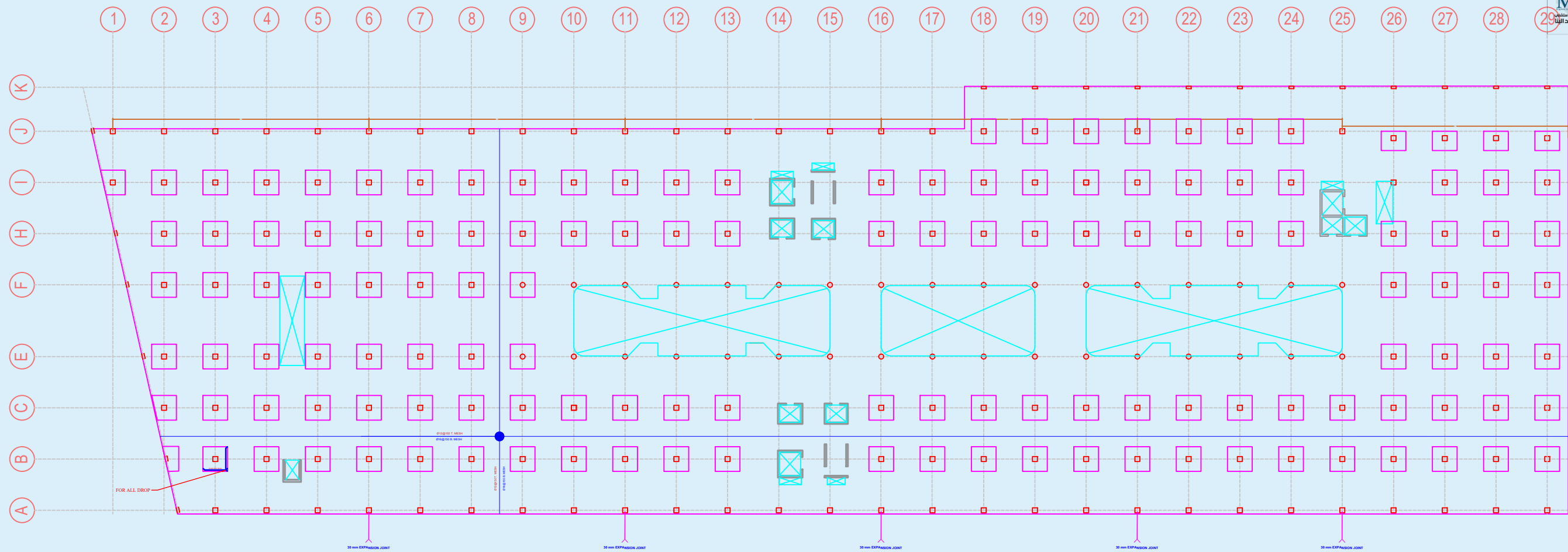


CONCRETE COVERS

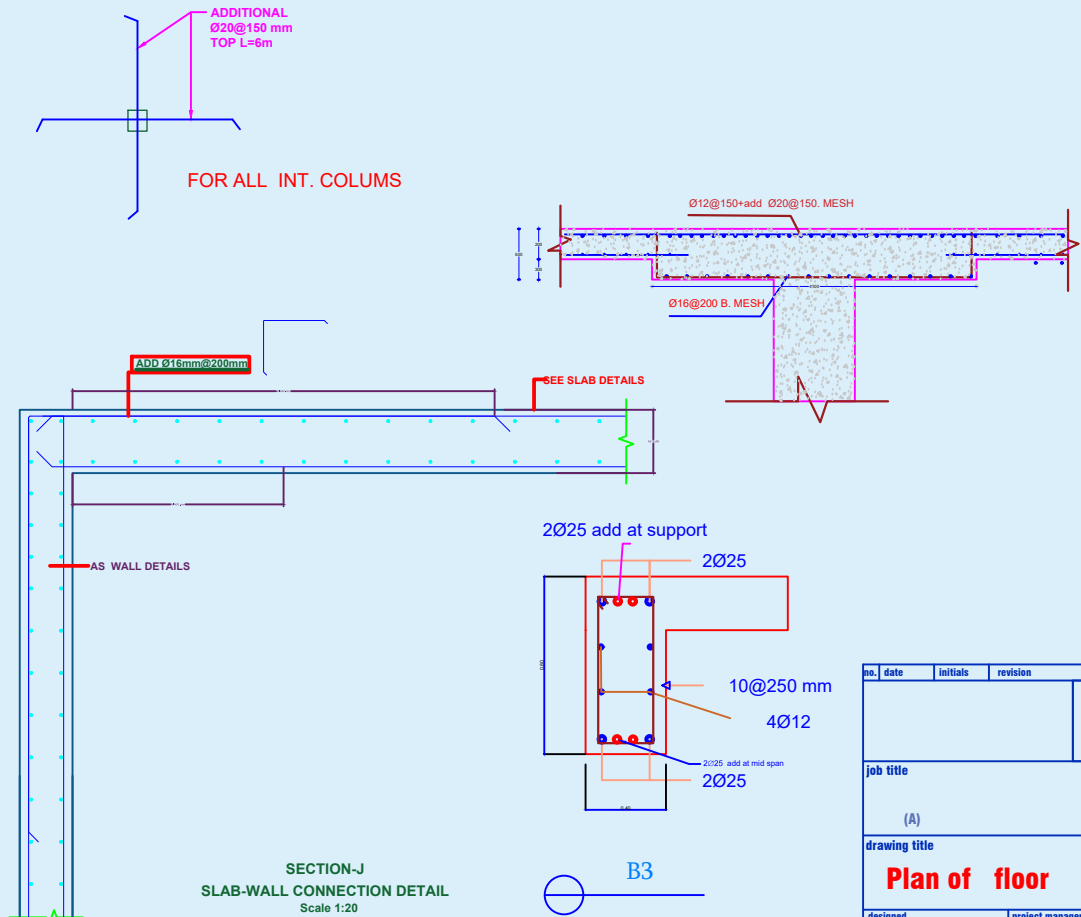
-SLABS	= 25 mm
-BEAMS	= 40 mm
-COLUMNS	= 40 mm
-WALLS	= 25 mm
-SLAB ON GRADE	= 50 mm
-RAFT FOUNDATION	= 75 mm

. all dim. from ARCH D.W.G.

no.	date	initials	revision		
job title					
(A)					
drawing title					
Stairs detail					
designed ENG - DR-Majid Albana			project manager		
checked		scale 1-100	date 10 /2023		
drawn		job no. 12	sheet no.		
approved			ST/D/07		

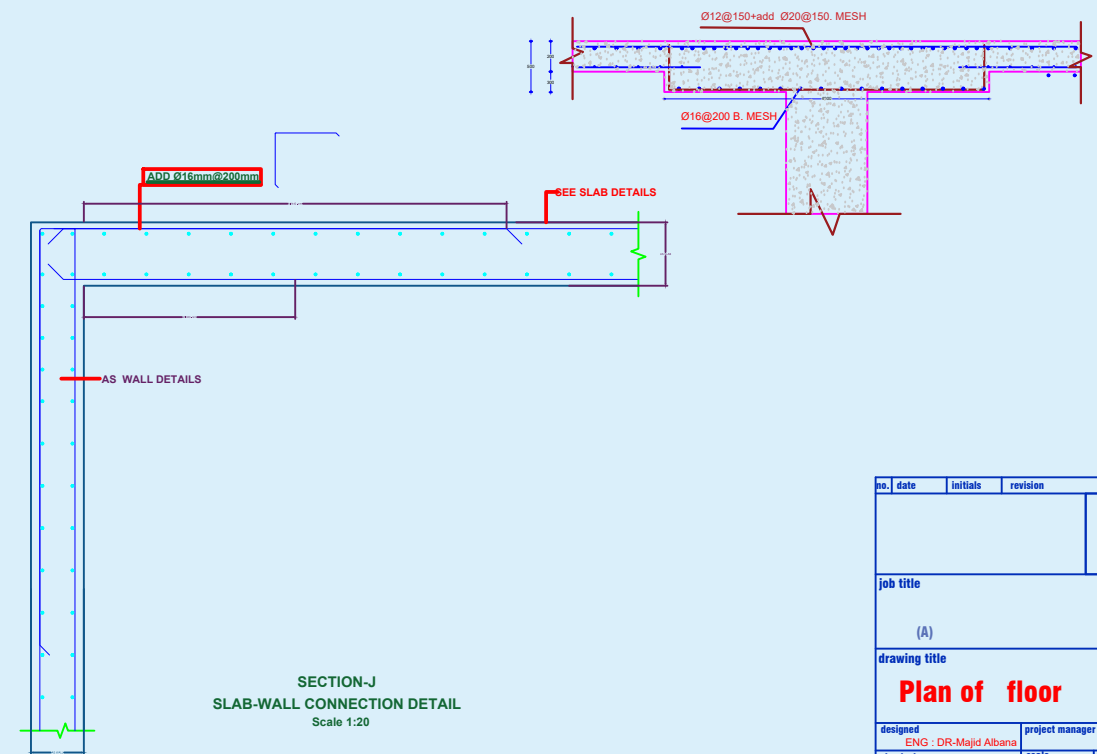
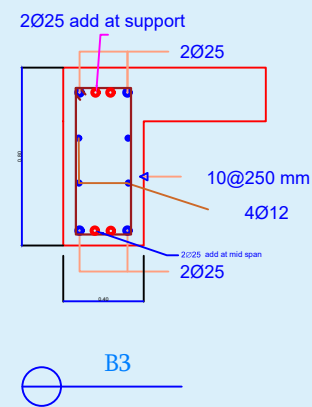
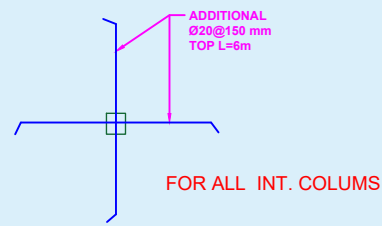
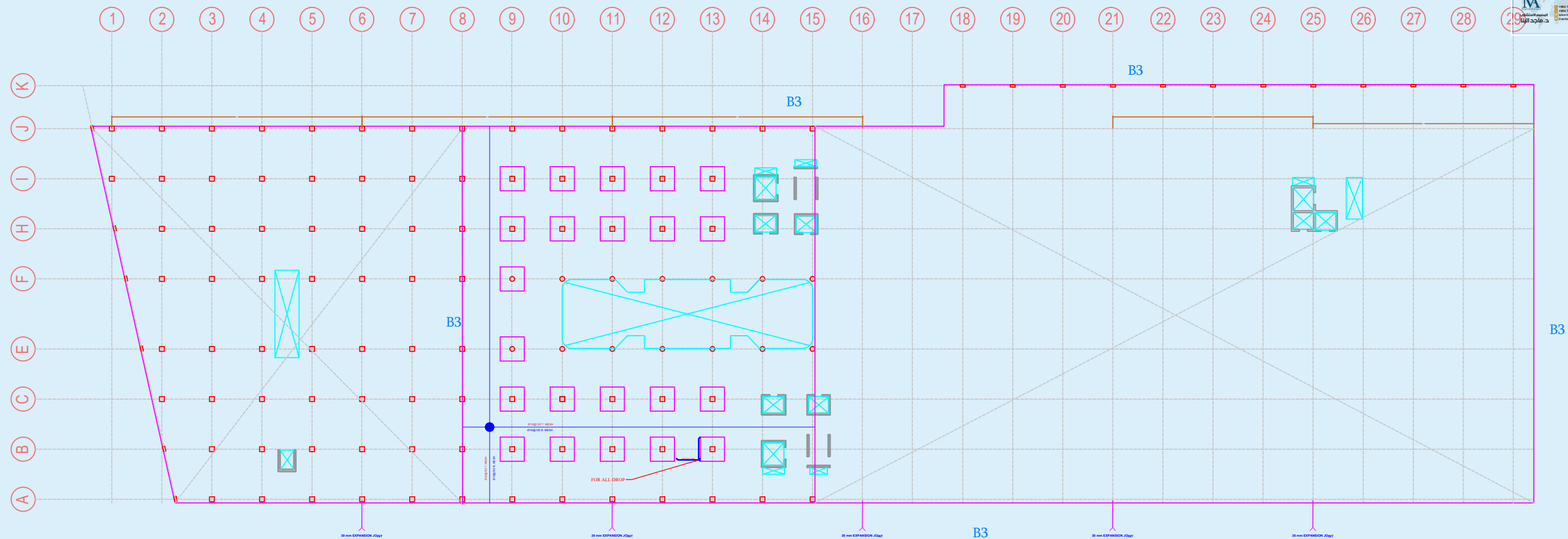


SLAB REINFORCEMENT (BASEMENT +GROUND FLOOR+ 1st FLOOR)
SLAB THICKNESS = 200 mm



SECTION-J
SLAB-WALL CONNECTION DETAIL
Scale 1:20

no.	date	initials	revision
job title			
(A)			
drawing title			
Plan of floor			
designed	ENG : DR-Majid Albani	project manager	
checked		scale	1-100
drawn		job no.	10 /2023
approved		sheet no.	13
			ST/D/06



SLAB REINFORCEMENT (2nd FLOOR)

SLAB THICKNESS = 200 mm

no.	date	initials	revision
job title			
(A)			
drawing title			
Plan of floor			
designed	ENG : DR-Majid Albana		project manager
checked	scale	1-100	date 19 /2023
drawn	job no.		sheet no.
approved	13.2	ST/D/06	



JOIN 3

JOIN 4

JOIN5

no. date	initials	revision
job title		
(A)		
drawing title		
Plan of floor		
designed	project manager	
checked	scale 1-100	date 10/2
drawn	job no.	sheet no.
approved	14	ST/D/A



M

Eng MAJ D Albana

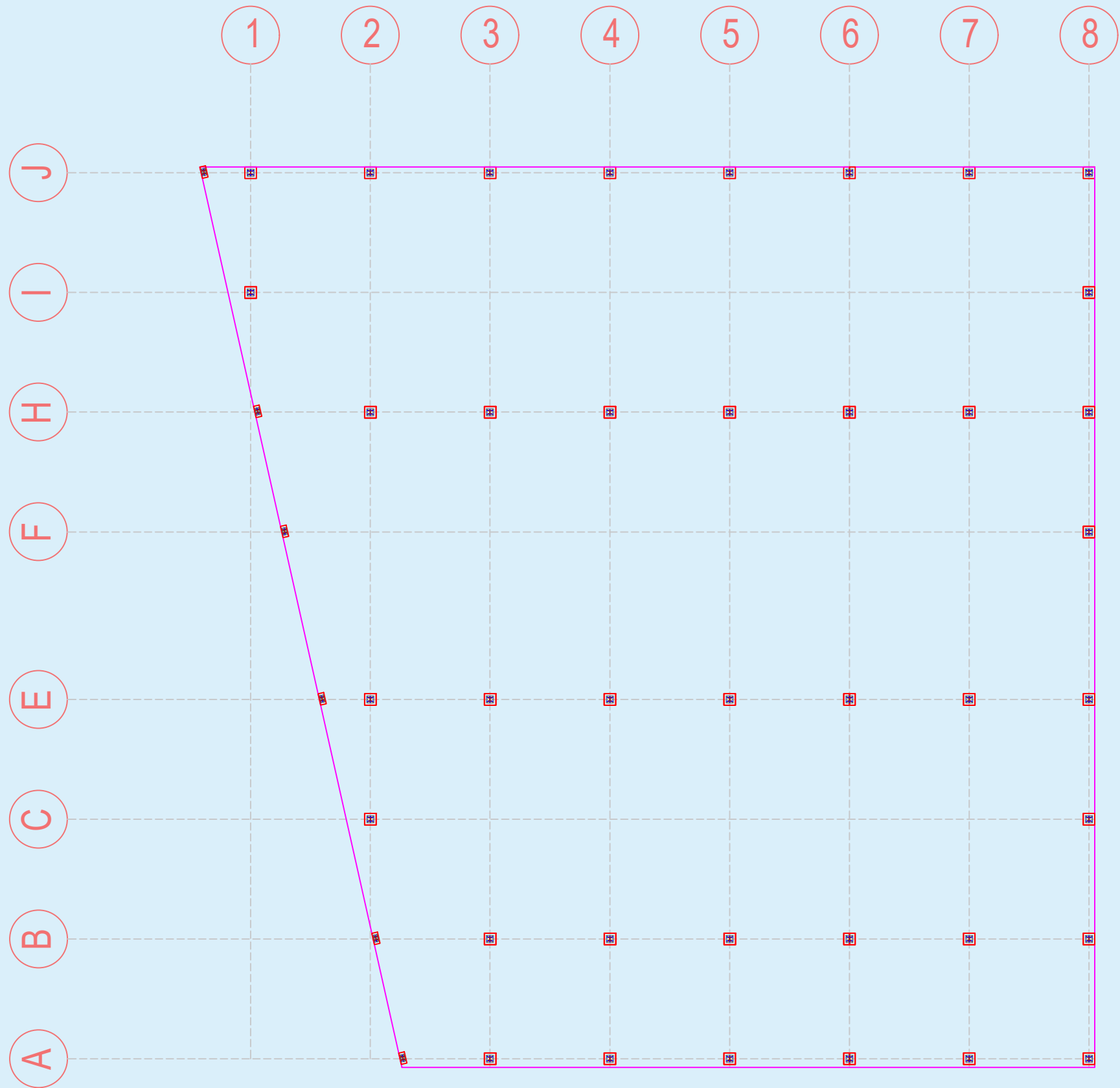
المصمم الاستشاري
د. ماجد البنا

+964 770 272 4811

+964 782 595 3403

www.majidalbana.com

majidalbana@hotmail.com

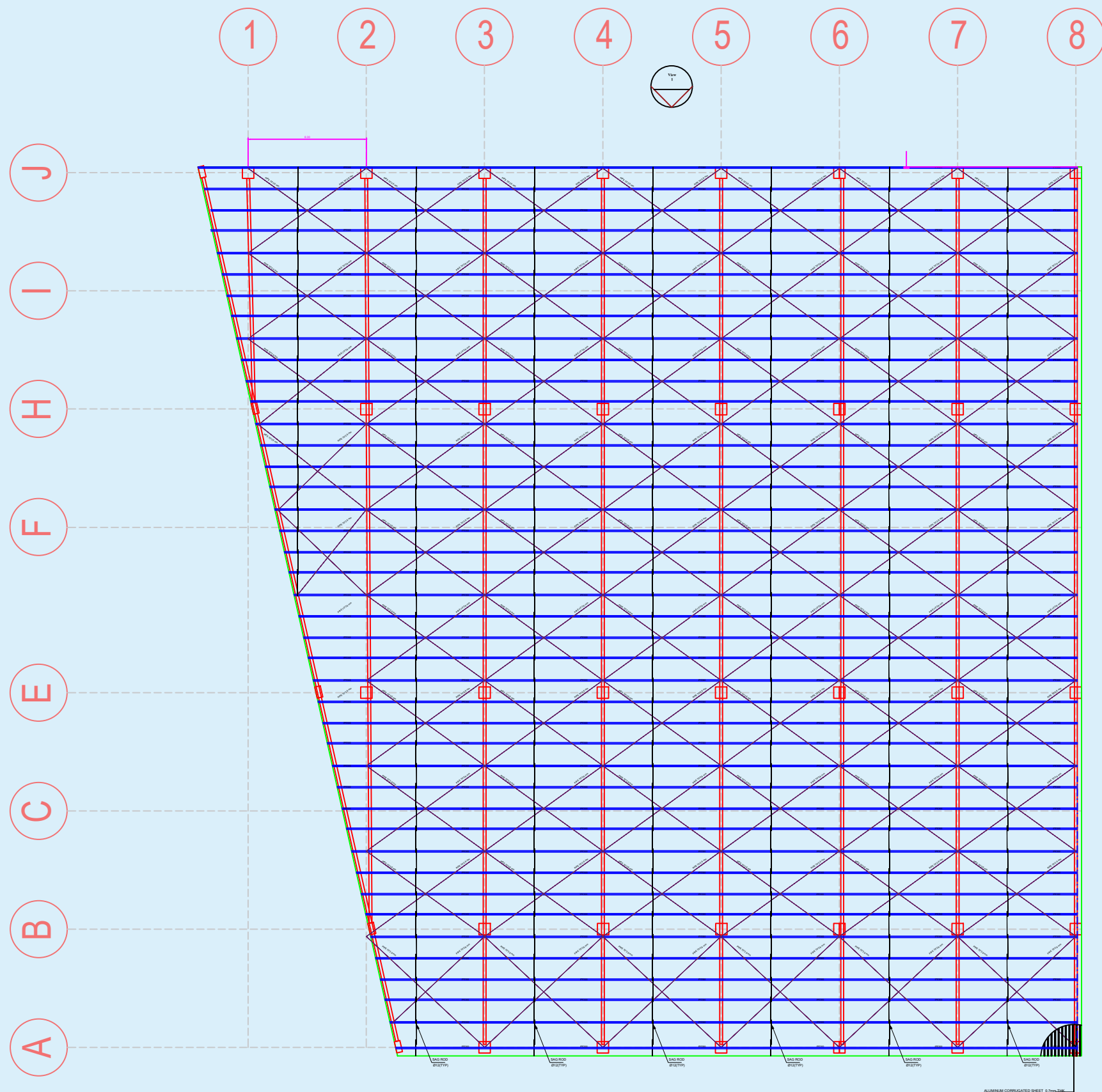


COLUMN AND BASE PLATE LAYOUT
TOP FOUNDATION LEVEL +12.24

STEEL MATERIALS

- 1Material Steel S235
Minimum yield stress $F_y = 235 \text{ MPa}$
Minimum Tensile Strength $F_u = 360 \text{ MPa}$
- 2All Steel Members shall Be Hot-Dipped
Galvanized Including Plates , Bolts <nuts
- 2All Welding, Unless Otherwise Specified,
Shall Be Fillet or Full Welded
All Round With Weld Size Equal to
The Thickness of Respective Welded Member
- 3All Welds Are 8mm E7018

no.	date	initials	revision
job title			
(A)			
drawing title			
SLAB LAYOUT			
designed ENG : Majid Albana		project manager	
checked ENG : Majid Albana	scale 1-100	date 10 /2023	
drawn ENG : Majid Albana	job no.	sheet no.	
approved	15ST/D/06		



SLAB LAYOUT
TOP SLAB LEVEL +24.24



Eng MAJ D A bana
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STEEL MATERIALS

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no.	date	initials	revision
job title			
(A)			
drawing title			
SLAB LAYOUT			
designed	ENG : Majid Albana	project manager	
checked	ENG : Majid Albana	scale	1-100
drawn	ENG : Majid Albana	job no.	10 / 2023
approved		sheet no.	16
ST/D/06			



M

Eng MAJ D A bana

المصمم الاستشاري

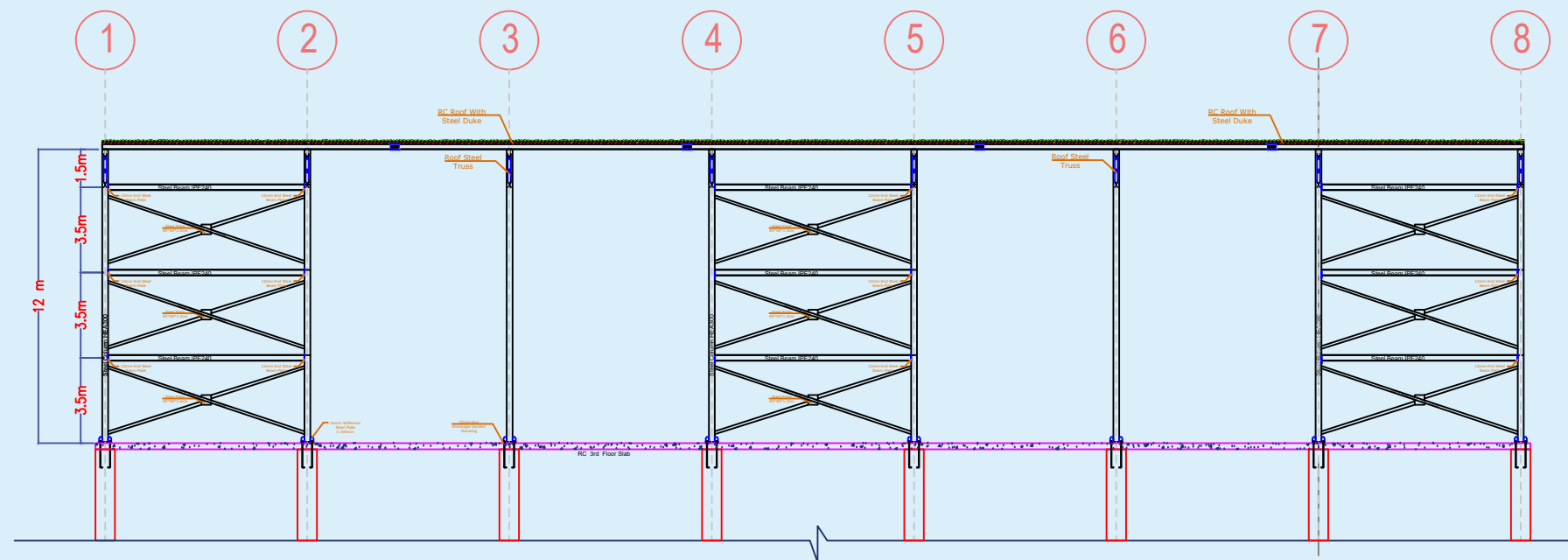
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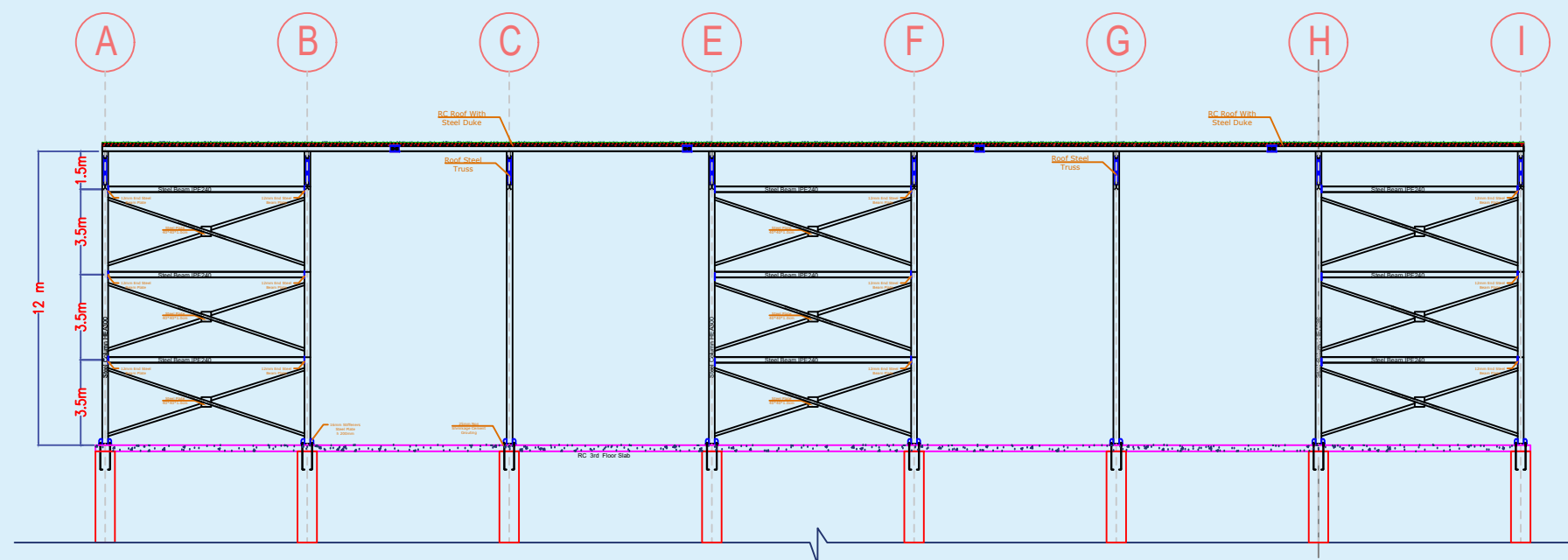
+964 782 595 3403

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Steel Structure Building - View 1

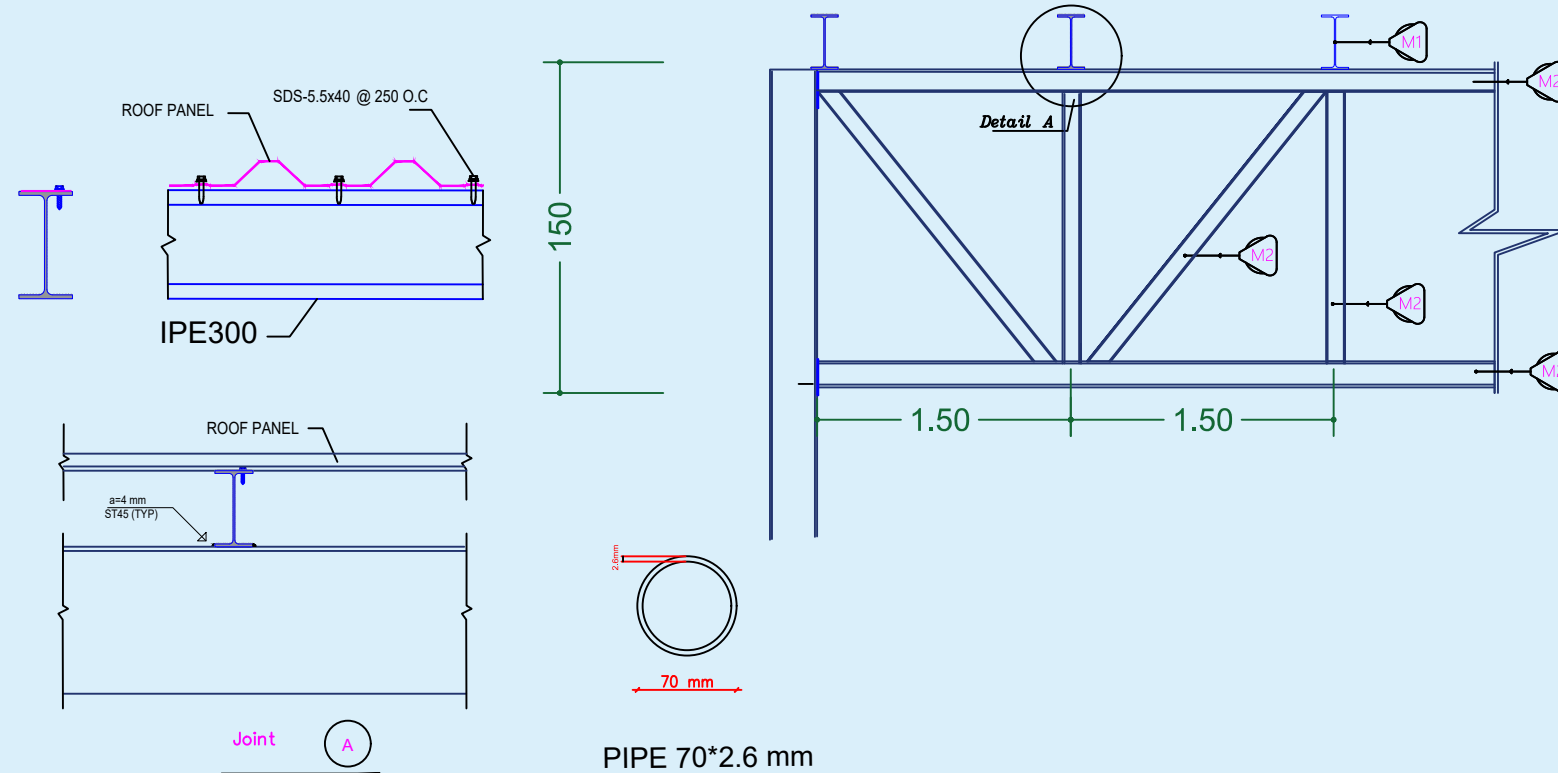


Steel Structure Building - View 2

STEEL MATERIALS

- Material Steel S235
Minimum yield stress $F_y = 235 \text{ MPa}$
Minimum Tensile Strength $F_u = 360 \text{ MPa}$
- All Steel Members shall Be Hot-Dipped Galvanized Including Plates , Bolts <nuts
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All Round With Weld Size Equal to The Thickness of Respective Welded Member
- All Welds Are 8mm E7018

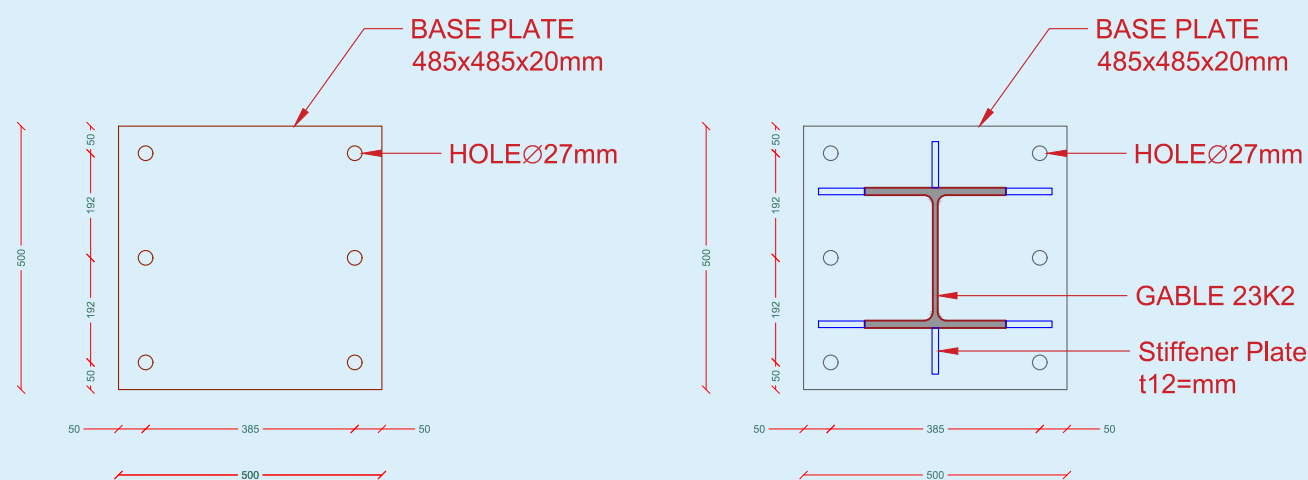
no.	date	initials	revision
job title			
(A)			
drawing title			
SECTIONS			
designed	ENG : Majid Albana	project manager	
checked	ENG : Majid Albana	scale	1-100
drawn	ENG : Majid Albana	date	10 /2023
approved		job no.	
		sheet no.	17
			ST/D/06



TRUSS MEMBER DETAILS				
STEEL GRADE ST37 (TYP)	Dimensions			Shape
	H	B	t	S
M1	300	100	10	8
	mm	mm	mm	mm
M2	200	100	9	6
	mm	mm	mm	mm

STEEL MATERIALS

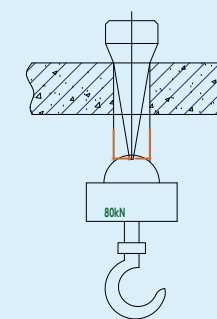
- Material Steel S235
Minimum yield stress $F_y = 235 \text{ MPa}$
Minimum Tensile Strength $F_u = 360 \text{ MPa}$
- All Steel Members shall Be Hot-Dipped Galvanized Including Plates , Bolts <nuts
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All Round With Weld Size Equal to The Thickness of Respective Welded Member
- All Welds Are 8mm E7018



ANCHOR BOLT SCHEDULE				
T : THREADED BOLT PROJECTION E : EMBEDMENT LENGTH (MIN.) L : VERTICAL LENGTH X : HOOK LENGTH				
DIAMETER	T	E	L	X
mm	mm	mm	mm	mm
20	100	400	500	100

— BASE PLATE

no.	date	initials	revision
job title			
(A)			
drawing title			
SECTIONS			
designed	ENG : Majid Albana	project manager	
checked	ENG : Majid Albana	scale	1-100
drawn	ENG : Majid Albana	date	10 / 2023
approved		job no.	sheet no.
		18	ST/D/06

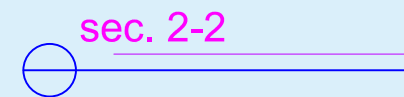
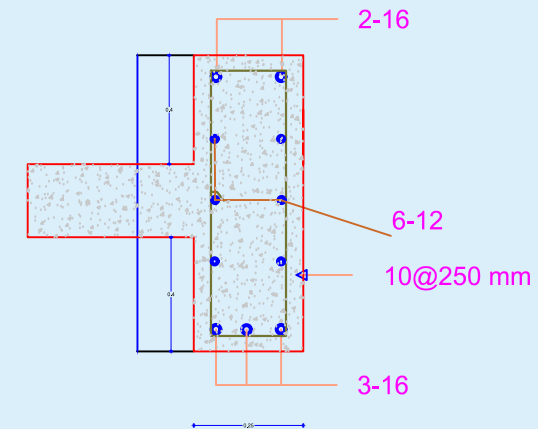


Notes:

1、The layout drawing is suitable for the construction which the height is under 6m.

Specification parameter		
	Type	KLF35-100K
	Speed(m/s)	0.5 m/s
	Rise	5000mm
	Angle	35°
	Supporting R1(KN)	72KN
	Supporting R2(KN)	65KN
	Weight (KN)	74KN
Power	Power supply	Three-phase AC 380V 50HZ
	Lighting supply	Single-phase AC 220V 50HZ

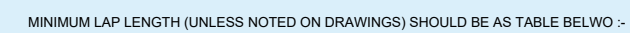
<div>CONFIRMATION</div> <div>(stamp)</div> <div>(signature)</div>				Weight (KN)		74KN	
				Power	Power supply	Three-phase AC 380V 50HZ	
					Lighting supply	Single-phase AC 220V 50HZ	
Date		Contract number		Project			
Designed by		PINO		HOVR ELEVATOR ESCALATOR LAYOUT DRAWING(INDOOR)			
Proofread by		Auditing by					



25 mm
Camber

slab camber 25 mm

SLAB THICKNESS = 250 mm



BAR DIA.(mm)	10	12	16	18	20	22	25
LAP LENGTH (mm) COLUMNS	400	500	600	650	700	800	900
LAP LENGTH (mm) SLAB & BEAMS	400	600	700	800	900	1000	1250

. all dim. from ARCH D.W.G.

[illegible]