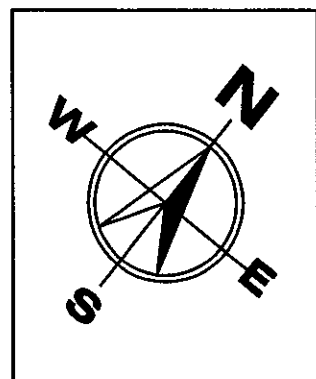


North Orientation



AREA CALCULATION :-

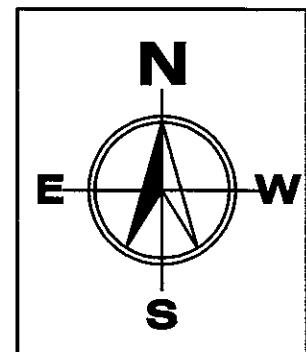
VILLA BLOCK

GROUND FLOOR	361.13	SQ.M.
STAIR CASE	21.76	SQ.M.

KITCHEN BLOCK	83.20	SQ.M.
TOTAL AREA	466.09	SQ.M.

PLOT AREA	1050	SQ.M.
Building Coverage RATIO	42.3 %	
GROSS FLOOR AREA (G.F.A)	0.68 < 1	
Boundary Wall Length	130.0	L.M.

North Orientation



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OF ANY WORK.

FUJAIRAH MUNICIPALITY بلدية الفجيرة

The consultant and the contractor are fully responsible for any mistake in the project design and construction, without any responsibility for the municipality.

قسم التخطيط العمراني 2



FOUNDATION NOTE :-

THE FOUNDATION IS DESIGN FOR VILLA G+1

REVISION :

NO	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
VILLA (G+STAIR CASE)+
(BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB

TITLE
SITTING LAYOUT PLAN

CONSULTANT

i-DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223556 ALAIN : 09-7648896 A.D. 02-02-1990

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE :	1:100	DATE	13-6-2018
CHECKED BY :		DATE	

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	A.01	

A SITTING LAYOUT PLAN
scale 1: 100

ROAD

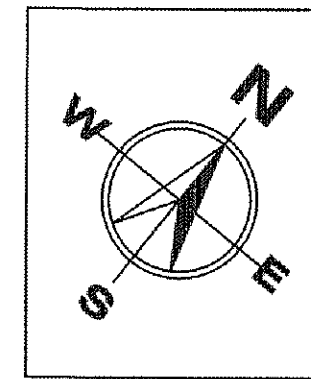


KEY PLAN :

ONLINE SERVICES NO. 18063282

I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
A APPROVED DRAWING AT ONLINE SERVICE 18063282 IS
SAME AS THE DRAWING SUBMITTED FOR FINAL
APPROVAL.

North Orientation

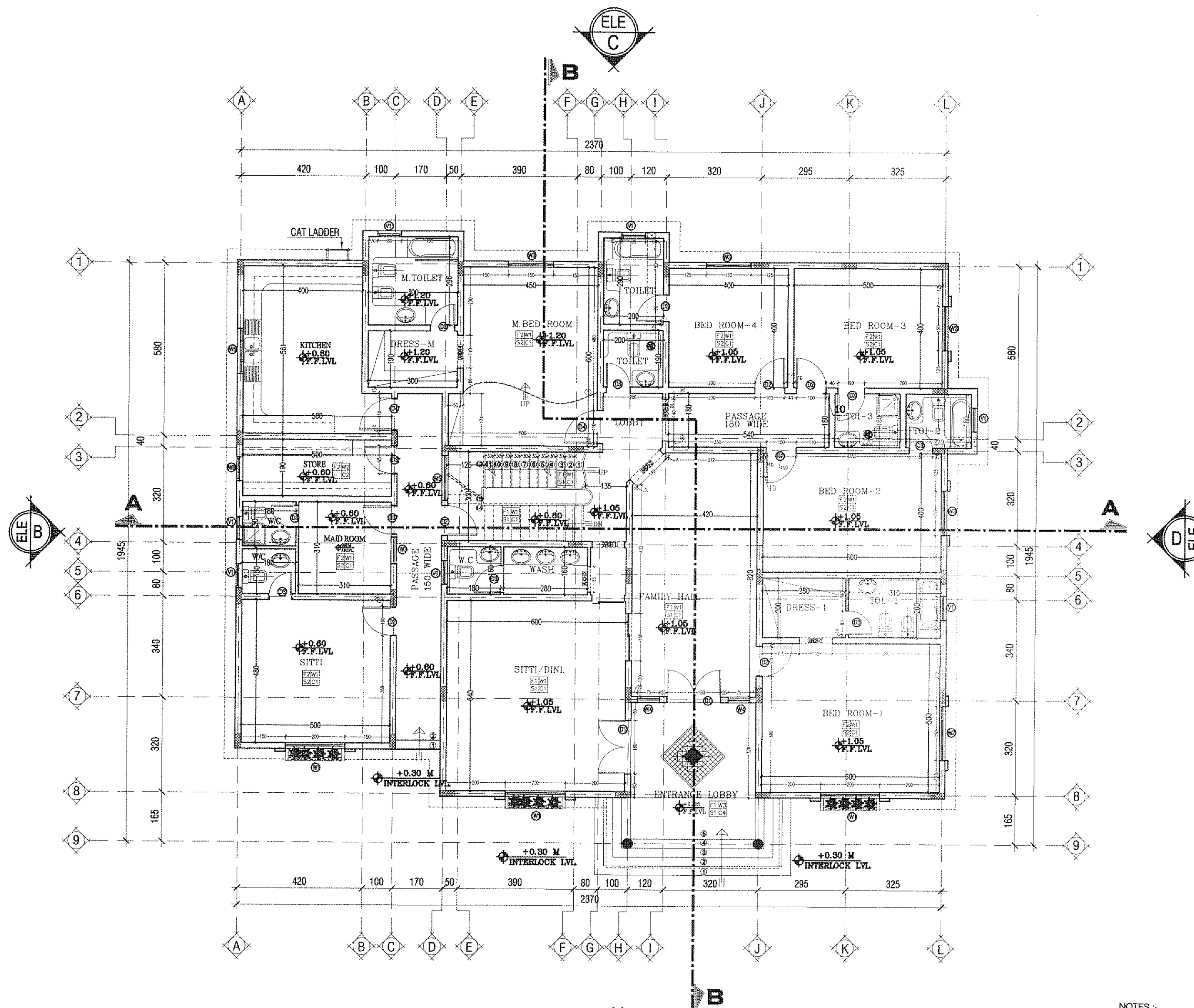


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- (3) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION
OF THE ENGINEER AND RESOLVED BEFORE COMMENCEMENT
OF ANY WORK.

TYPE	NO.	INTERNAL FINISHING.
FLOORING	F1	MARBLE
	F2	CERAMIC TILES
	F3	GRANITE
	F4	CEMENT TILES WITH (W.P.) AS SPECIFICATION
WALL	W1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	W2	CERAMIC TILES
	W3	ACRYLIC PAINT
SKIRTING	S1	MARBLE
	S2	CERAMIC TILES
CEILING	C1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	C2	FALSE CEILING (600 x 600 x 0.6mm)
	C3	OIL PAINT ON PLASTER
	C4	ACRYLIC TEXTILES PAINT

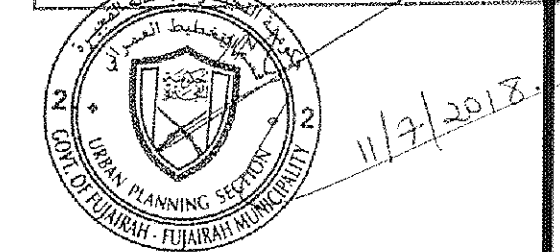
NOTE :
FOR BATH ROOM & WASH ROOM & KITCHEN
IRON & LAUNDRY



A GROUND FLOOR PLAN
scale 1: 100

FUJAIRAH MUNICIPALITY
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fully responsible for any mistake in the
project design and construction,
without any responsibility for the
municipality.

URBAN PLANNING SECTION 2



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
**VILLA (G+STAIRCASE) +
(BOUNDARY WALL)**

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB
هيثم محمد راشد سالمين الكبي

TITLE
FIRST FLOOR PLAN

CONSULTANT
i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH: 09-2223555 ALAIN: 03-7648996 A.D: 02-6219590

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY		SIGN

SCALE : 1:100 DATE 18-06-2018
CHECKED BY : DATE

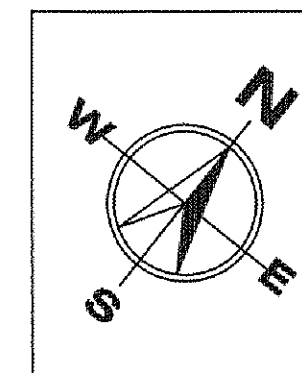
PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	OURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	A.02	

NOTES :-

- 1- VILLA FOUNDATION IS DESIGNED FOR G+1 +ST AS FUTURE PLANNED
- 2- CO2 TO BE PROVIDED IN EACH FLOORS
- 3- FIRE BLANKET TO BE PROVIDED IN THE KITCHEN
- 4- THE KITCHEN DOOR TO BE FIRE RATED
- 5- THIS PROJECT IS AS PER UAE CIVIL DEFENSE CODE 2012

ONLINE SERVICES NO. 18063282
**I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
A APPROVED DRAWING AT ONLINE SERVICE 18063282 IS
SAME AS THE DRAWING SUBMITTED FOR FINAL
APPROVAL.**

North Orientation



GENERAL NOTE

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TYPE	NO.	INTERNAL FINISHING.
FLOORING	F1	MARBLE
	F2	CERAMIC TILES
	F3	GRANITE
	F4	CEMENT TILES WITH (W P) AS SPECIFICATION
WALL	W1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	W2	CERAMIC TILES
	W3	ACRYLIC PAINT
SKIRTING	S1	MARBLE
	S2	CERAMIC TILES
CEILING	C1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	C2	FALSE CEILING (600 x 600 x 0.6mm)
	C3	OIL PAINT ON PLASTER
	C4	ACRYLIC TEXTILES PAINT

NOTE :-
 F2/W2 FOR BATH ROOM & WASH ROOM & KITCHEN
 C4 IRON & LAUNDRY

FUJAIRAH MUNICIPALITY
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 URBAN PLANNING SECTION



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
VILLA (G+STAIRCASE) + (BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB
 هيثم محمد راشد سالمين الكعبي

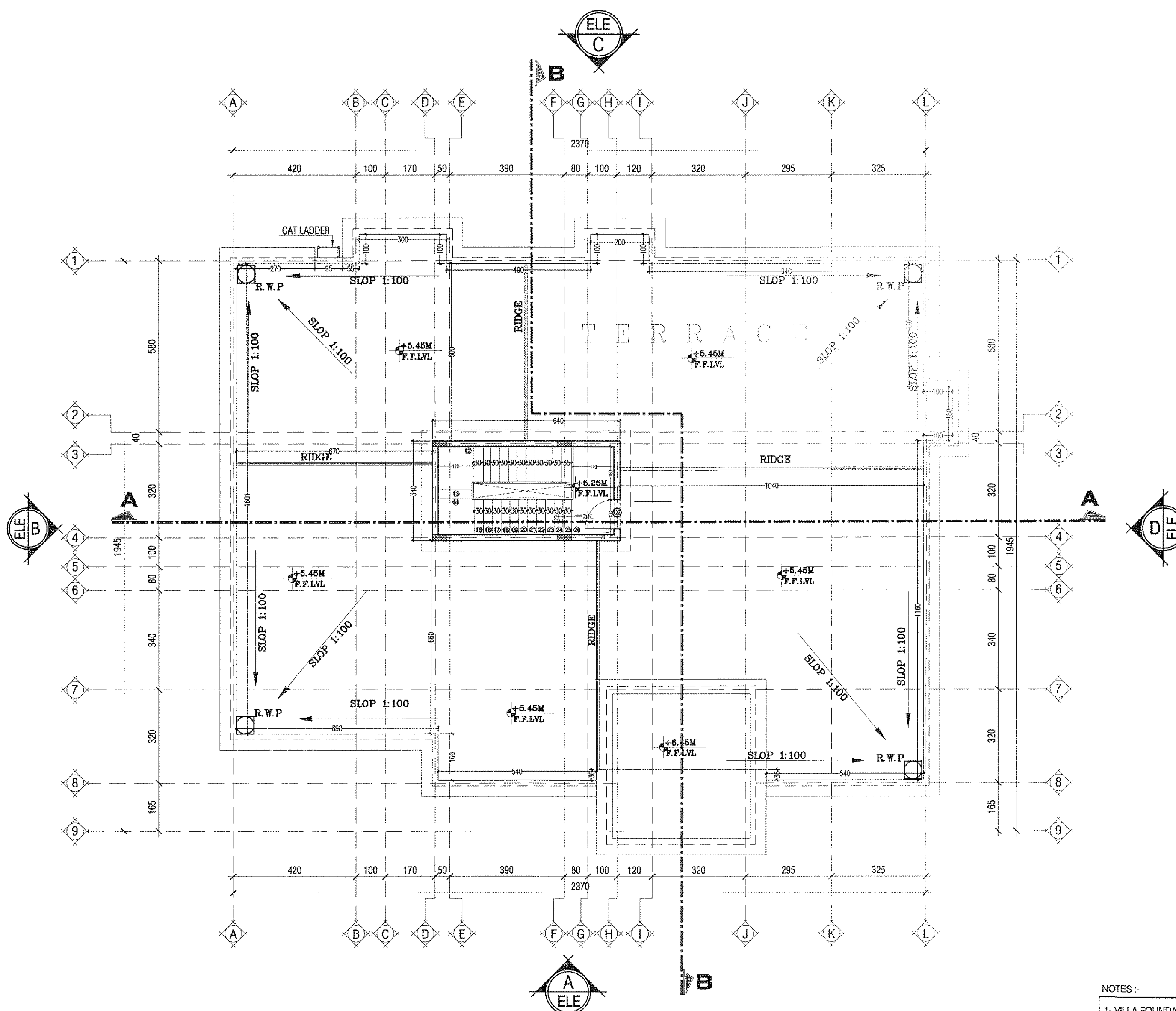
TITLE
ROOF FLOOR PLAN

CONSULTANT
i - DESIGN
 CONSULTING & ENGINEERING
 HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
 FUJAIRAH 08-2223355 ALAIN:03-7648695 A.D. 02-0219990

ARCHITECT	AHMAD ABDO	SIGN	
STRUCTURE ENG.		SIGN	
ELECTRICAL ENG.		SIGN	
MECH. ENG.		SIGN	
DRAWN BY	MUHAMMAD SALIM	SIGN	

SCALE : 1:100 DATE 18-06-2018
 CHECKED BY : DATE

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO.	
2	112	A.03	



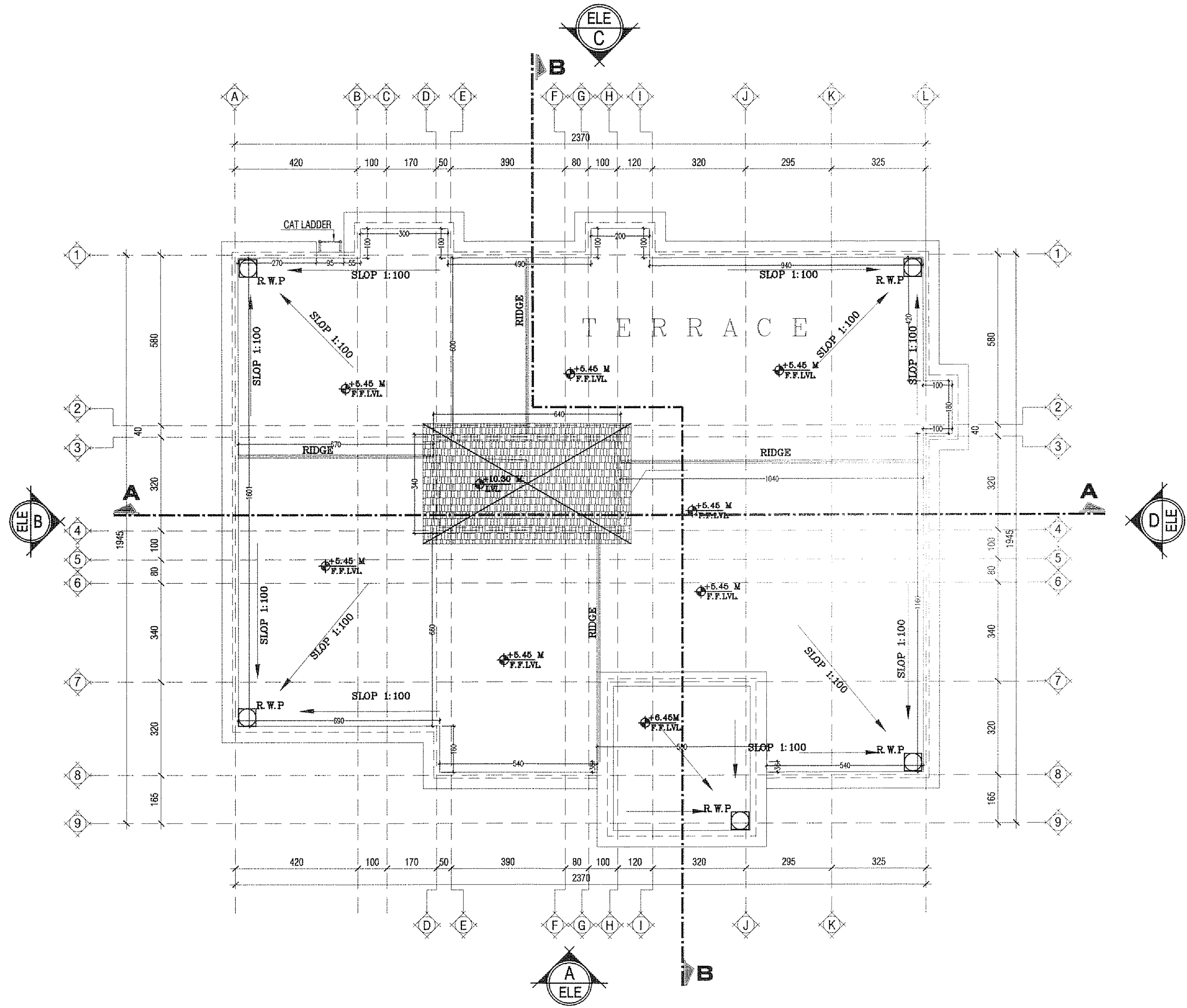
A ROOF FLOOR PLAN
 scale 1: 100

NOTES :-

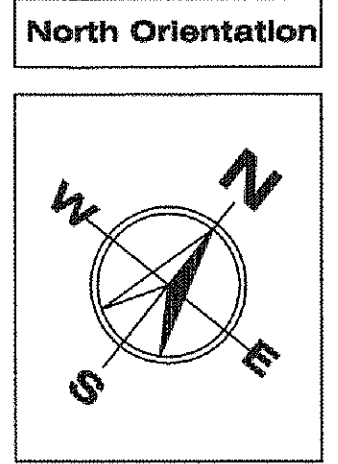
- 1- VILLA FOUNDATION IS DESIGNED FOR G+1 +ST AS FUTURE PLANNED
- 2- CO2 TO BE PROVIDED IN EACH FLOORS
- 3- FIRE BLANKET TO BE PROVIDED IN THE KITCHEN
- 4- THE KITCHEN DOOR TO BE FIRE RATED
- 5- THIS PROJECT IS AS PER UAE CIVIL DEFENSE CODE 2012

ONLINE SERVICES NO. 18063282

I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE A APPROVED DRAWING AT ONLINE SERVICE 18063282 IS SAME AS THE DRAWING SUBMITTED FOR FINAL APPROVAL.



A TOP ROOF PLAN
scale 1: 100



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(3) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION
OF THE ENGINEER AND RESOLVED BEFORE COMMENCEMENT
OF ANY WORK.

TYPE	NO.	INTERNAL FINISHING.
FLOORING	F1	MARBLE
	F2	CERAMIC TILES
	F3	GRANITE
	F4	CEMENT TILES WITH (W.P.) AS SPECIFICATION
WALL	W1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	W2	CERAMIC TILES
	W3	ACRYLIC PAINT
SKIRTING	S1	MARBLE
	S2	CERAMIC TILES
CEILING	C1	PLASTIC EMULSION ON PLASTER (WASHABLE)
	C2	FALSE CEILING (600 x 600 x 0.6mm)
	C3	OIL PAINT ON PLASTER
	C4	ACRYLIC TEXTILES PAINT

NOTE :-
FOR BATH ROOM & WASH ROOM & KITCHEN
IRON & LAUNDRY

FUJAIRAH MUNICIPALITY
بلدية الفجيرة

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fully responsible for any mistake in this
project design and construction,
without any responsibility for the
municipality.

قسم التخطيط العمراني



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
VILLA (G+STAIRCASE) +
(BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB
هيثم محمد راشد سالمين الكبي

TITLE
TOP ROOF PLAN

CONSULTANT
i - DESIGN
CONSULTING & ENGINEERING

HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223656 ALAIN : 03-7648995 A.D. 02-6219990

ARCHITECT	AHMAD ABDO	SIGN	
STRUCTURE ENG.		SIGN	
ELECTRICAL ENG.		SIGN	
MECH. ENG.		SIGN	
DRAWN BY	MUHAMMAD SALIM	SIGN	
SCALE :	1:100	DATE	18-06-2018
CHECKED BY :		DATE	

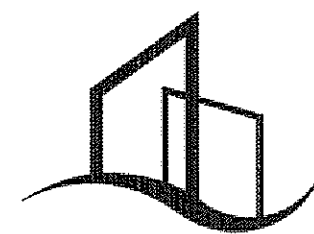
PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	OURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	A.04	

NOTES :-

1- VILLA FOUNDATION IS DESIGNED FOR G+1 +ST AS FUTURE PLANNED
2- CO2 TO BE PROVIDED IN EACH FLOORS
3- FIRE BLANKET TO BE PROVIDED IN THE KITCHEN
4- THE KITCHEN DOOR TO BE FIRE RATED
5- THIS PROJECT IS AS PER UAE CIVIL DEFENSE CODE 2012

ONLINE SERVICES NO. 18063282

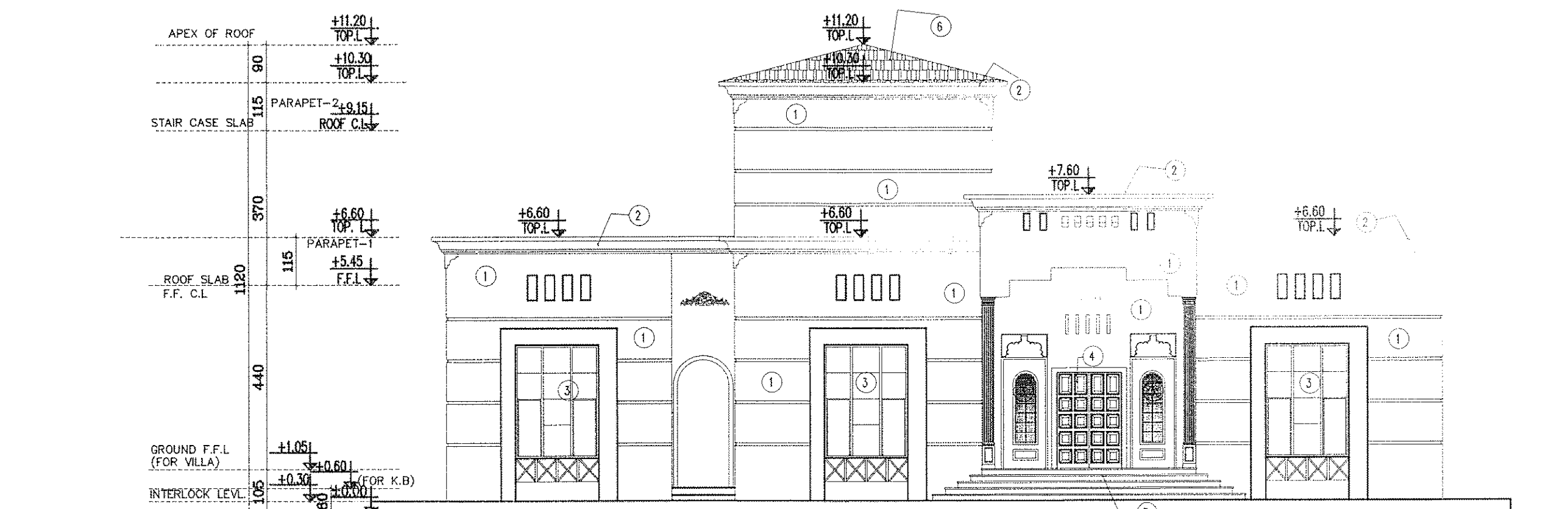
**I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
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SAME AS THE DRAWING SUBMITTED FOR FINAL
APPROVAL.**



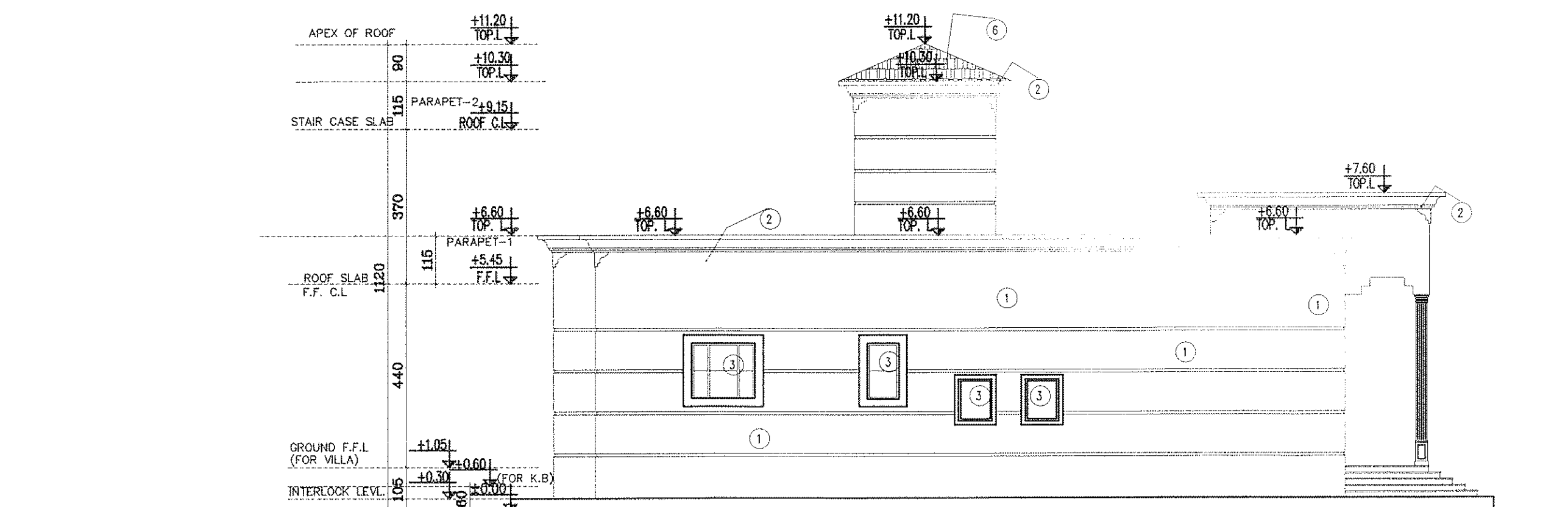
GENERAL NOTE

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- (3) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION
OF THE ENGINEER AND RESOLVED BEFORE COMMENCEMENT
OF ANY WORK.

FINISHING	
1	SEMI EPOXY PAINT WITH GROOVES ON THE PLASTER LIGHT BROWN COLOR
2	CONCRETE FOR PARAPET AND FRAMES (DARK BROWN Color Paint)
3	POWDER COATED ALUM. WITH REFLECTIVE GLASS (GREY Color Paint)
4	WOODEN DOOR CHOSEN BY THE OWNER AS PER SPECI.
5	GRANITE STEPS
6	CLAY TILES

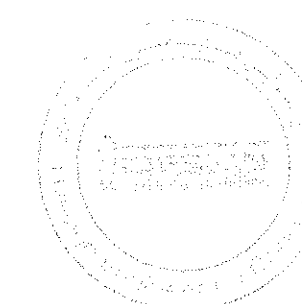


A FRONT ELEVATION (A)
scale 1:100



A LEFT ELEVATION (B)
scale 1:100

FUJAIRAH MUNICIPALITY
بلدية الفجيرة
The consultant and the contractor are fully responsible for any mistake in the project design and construction, without any responsibility for the municipality.
قسم التخطيط العمراني، 2



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			ahmed

PROJECT
VILLA (G+STAIR CASE) +
(BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB

TITLE
FIRST FLOOR PLAN

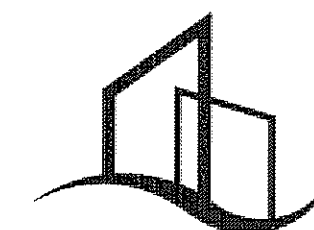
CONSULTANT
i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223556 ALAIN:03-7648996 A.D.:02-0219990

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE :	1:100	DATE	13-6-2018
CHECKED BY :		DATE	

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QUAD
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	A.05	

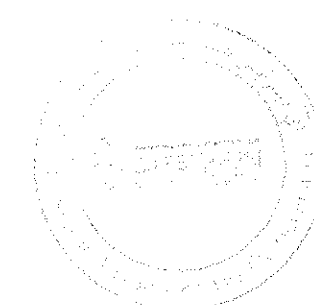
ONLINE SERVICES NO. 18063282
I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
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- (3) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION
OF THE ENGINEER AND RESOLVED BEFORE COMMENCEMENT
OF ANY WORK.

FINISHING	
1	SEMI EPOXY PAINT WITH GROOVES ON THE PLASTER LIGHT BROWN COLOR
2	CONCRETE FOR PARAPET AND FRAMES (DARK BROWN Color Paint)
3	POWDER COATED ALUM. WITH REFLECTIVE GLASS (GREY Color Paint)
4	WOODEN DOOR CHOSEN BY THE OWNER AS PER SPECI.
5	GRANITE STEPS
6	CLAY TILES



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT : VILLA (G+STAIR CASE) +
(BOUNDARY WALL)

CLIENT : HAITHAM MOHAMED RASHED SALMEN AL KABB

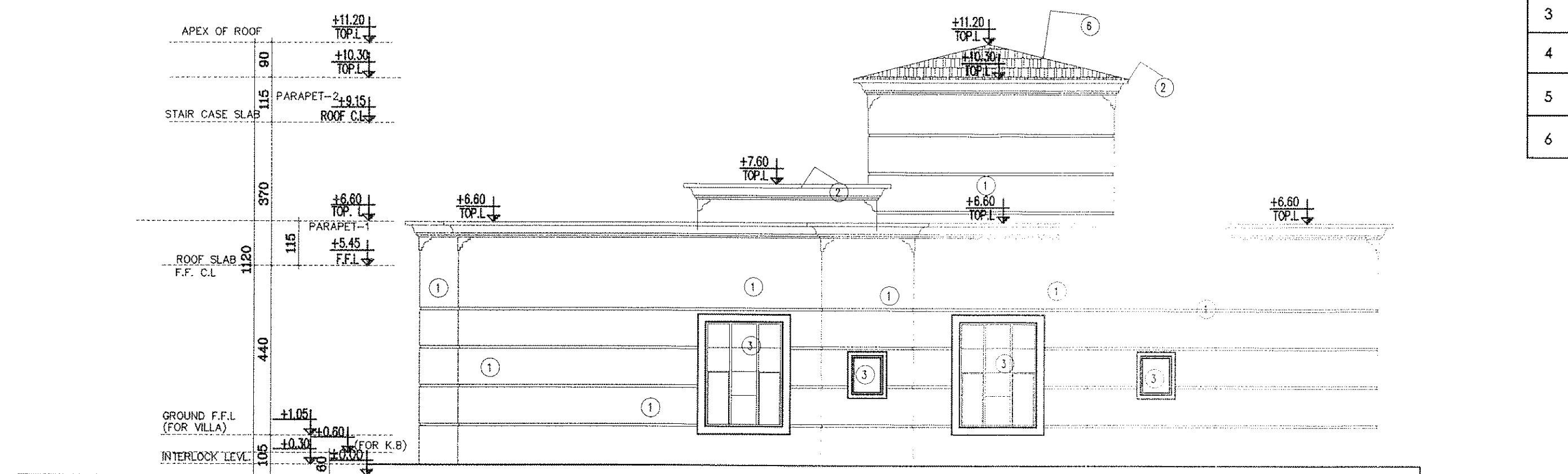
TITLE : FIRST FLOOR PLAN

CONSULTANT :
i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 03-2223556 ALAIN:03-7648995 A.D.02-6219900

ARCHITECT	AHMAD ABDO	SIGN	
STRUCTURE ENG.		SIGN	
ELECTRICAL ENG.		SIGN	
MECH. ENG.		SIGN	
DRAWN BY	MUHAMMAD SALIM	SIGN	

SCALE :	1:100	DATE	13-6-2018
CHECKED BY :		DATE	

PROJECT NO.	EMIRATES	QTY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	OURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	A.06	

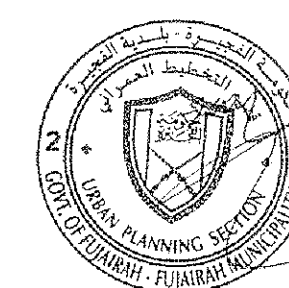


A REAR ELEVATION (C)
scale 1:100



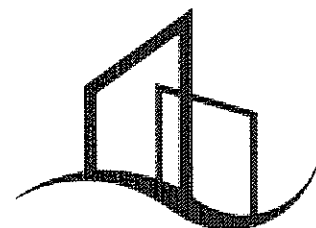
A RIGHT ELEVATION (D)
scale 1:100

FUJAIRAH MUNICIPALITY
بلدية الفجيرة
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fully responsible for any mistakes in the
project design and construction,
without any responsibility for the
municipality.
قسم التخطيط العمراني 2



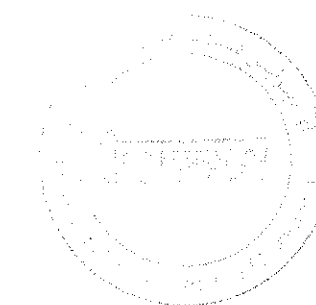
ONLINE SERVICES NO. 18063282

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OF THE ENGINEER AND RESOLVED BEFORE COMMENCEMENT
OF ANY WORK.



REVISION :

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
**VILLA (G+STAIR CASE) +
(BOUNDARY WALL)**

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABBI

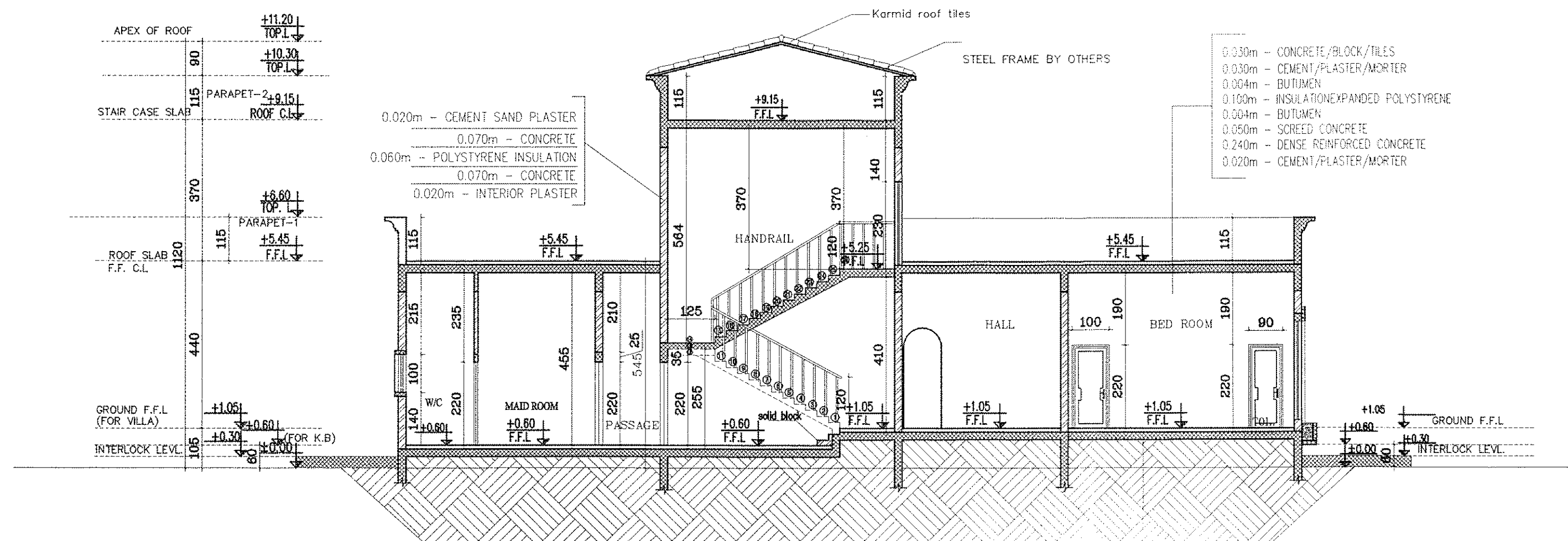
TITLE
Sections

CONSULTANT
i-DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH-09-2223556 ALAIN-03-7848995 A.D.-02-6218990

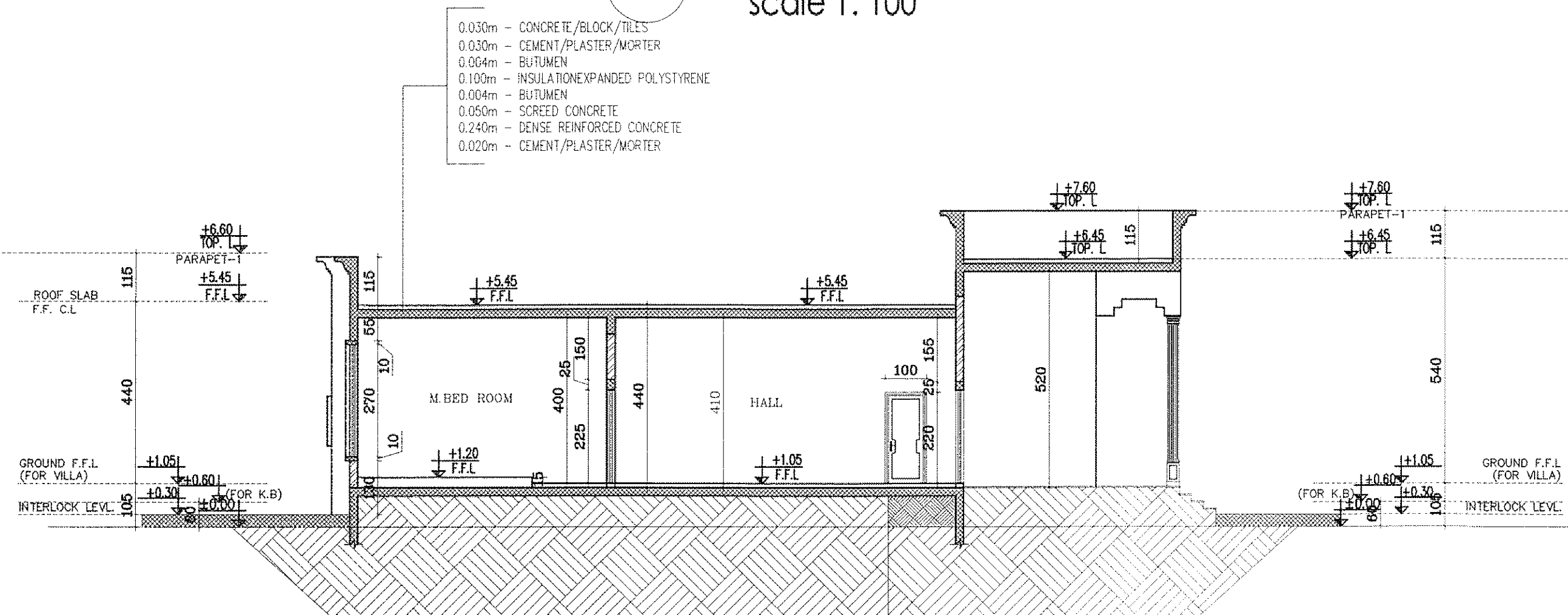
ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE :	1:100	DATE	13-6-2018
CHECKED BY :		DATE	

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO.:	
2	112	A.07	



A Section A-A
scale 1: 100



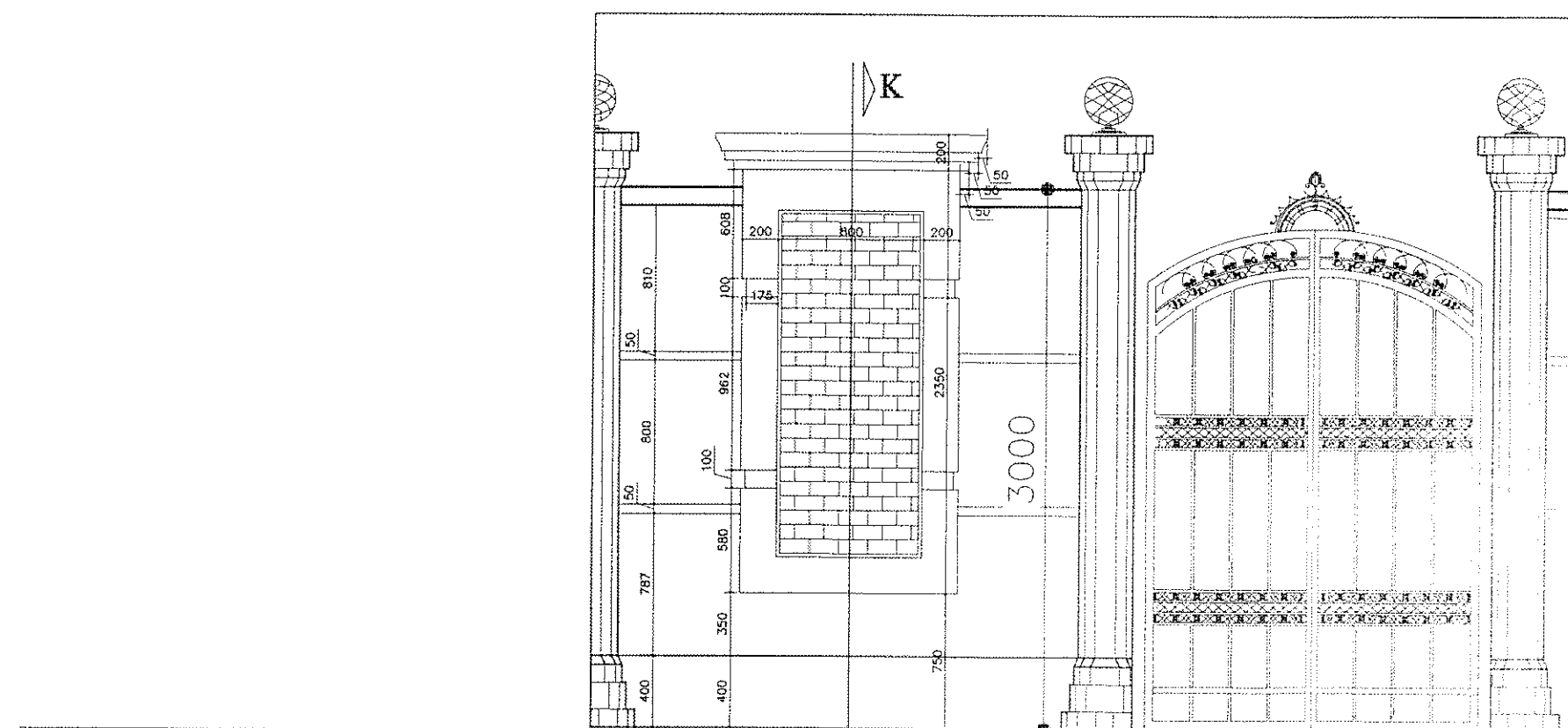
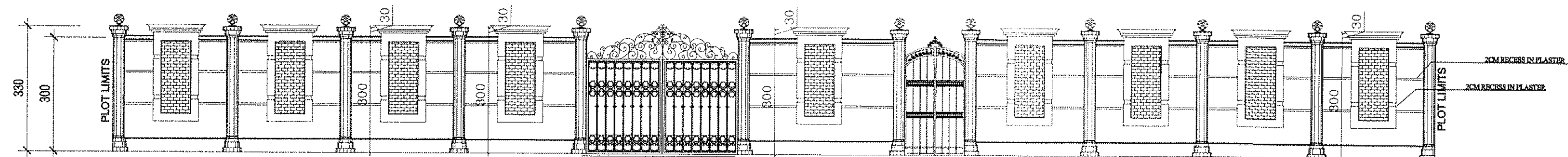
A Section B-B
scale 1: 100

ONLINE SERVICES NO. 18063282

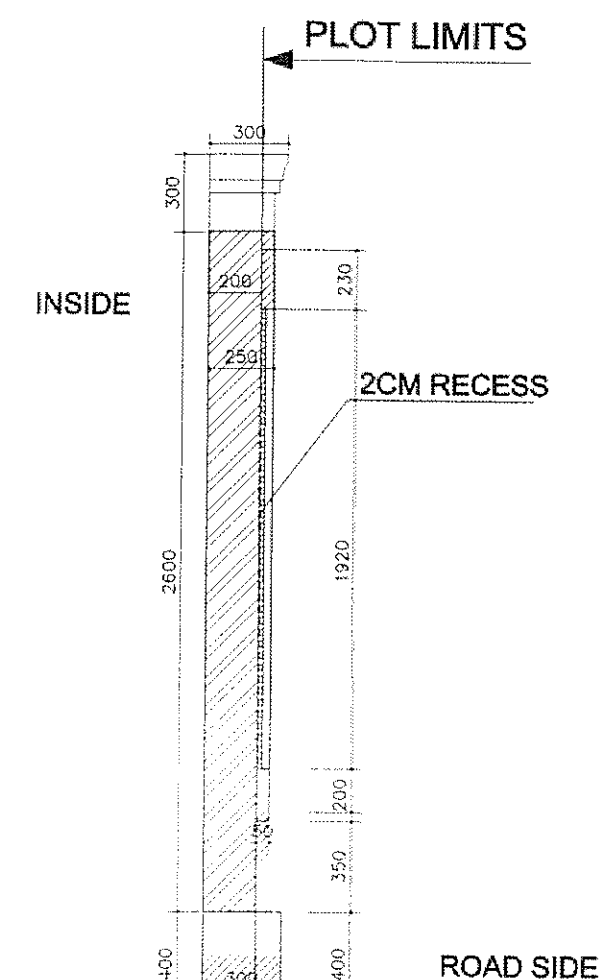
I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
A APPROVED DRAWING AT ONLINE SERVICE 18063282 IS
SAME AS THE DRAWING SUBMITTED FOR FINAL
APPROVAL.



-
- Technical drawing of a 3500mm long interlock assembly. The drawing shows a top-down view of the assembly with various dimensions and labels. The total length is 3500mm. The assembly is divided into several sections with dimensions: 320, 300, 300, 335, 400, 440, 160, 335, 300, 300, 310. The central section is labeled "INTERLOCK". The ends are labeled "PLOT LIMIT". The drawing includes a hatched circular area at the top center, likely representing a bolt or fastener. The dimensions are given in millimeters.

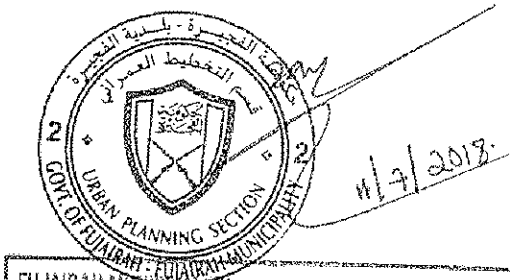


BLOW UP L



SECTION K

* 10 cm decoration only
out plot limit.



<p>THE CONSULTANT AND THE CONTRACTOR ARE FULLY RESPONSIBLE FOR ANY MISTAKE IN THE PROJECT DESIGN AND CONSTRUCTION, WITHOUT ANY RESPONSIBILITY FOR THE MUNICIPALITY.</p>	<p>المتقاضي والمقاول مسؤولان تماما عن أي خطأ في التصميم أو التنفيذ، وتقع مسؤوليتهم بالكامل على الاستشاري والمقاول معاً دون تحمل البلدية أي مسؤولية.</p>
<p>URBAN PLANNING SECTION 2</p>	<p>قسم التخطيط الحضري 2</p>

A

COMPOUND WALL
scale 1:100

ONLINE SERVICES NO. 18063282

**I DESIGN ENGINEERING CONSULTANT CONFIRM THAT THE
A APPROVED DRAWING AT ONLINE SERVICE 18063282 IS
SAME AS THE DRAWING SUBMITTED FOR FINAL
APPROVAL.**

*REVISION :			
07			
06			
05			
04			
03			
02			
01			
NO	DATE	REVISED	APPROVED

PROJECT VILLA (G+STAIR CASE) +
(BOUNDARY WALL)

HAITHAM MOHAMED RASHED SALMEN AL KABBI

TITLE COMPOUND WALL

CONSULTANT

 **i - DESIGN**
CONSULTING & ENGINEERING

HEAD OFFICE , FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223556 ALAIN:03-7648995 A.D.:02-6119990

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE :	1:100	DATE	13-6-2018
CHECKED BY :		DATE	

PROJECT NO. P-138	EMIRATES		CITY	LOCATION
	FUJAIRAH		FUJAIRAH	QURRAYA
	BLOCK NO.	PLOT NO.	SHEET NO. :	
	2	112	A.08	



Lab Ref no. 9154 - /FMBL/2018

Date : 13/06/2018

Chief of Building section
Fujairah Municipality
Fujairah

Client : Haitham Mohamed Rashed Salmei Al Kaabi

Consultant : I Design Engineering Consultant

Contractor : N.P

Project : (G+1) Villa

Description : Soil Investigation

Location : Plot no. 2 / 112 , Qurayya , Fujairah .

Subject : Recommendation for Plot no. 2 / 112 , Qurayya :

We are pleased to inform you for the above mentioned project , we have visited the site and found that the area of the plot is levelled . It is a natural area . It is a hard area . There is no backfilling .

Adjacent villa is the reference level for this plot .

So excavate the construction area up to 1.2 m from the reference level and compact the excavated surface to not less than 95% of the maximum dry density of the soil using heavy vibratory roller . Compact the area below grade slab upto 95 % by vibratory roller .

Compaction tests should be taken below foundation and below grade slab .

The supposed bearing capacity 18 tons/m2 is available in this location .

Photo is attached for reference .

With best regards .

Visited by : Engr. Arshad

M. Ad
13/06/2018

Chief of lab.

هاتف: +971-9-2228780 - فاكس: +971-9-2228780 - ص.ب: 7 - الفجيرة - الإمارات العربية المتحدة
Tel.: +971-9-2228780, Fax: +971-9-2228780, P.O Box 7, Fujairah, United Arab Emirates
www.fujairah.gov.ae buildinglab@fujairah.gov.ae البريد الإلكتروني: buildinglab@fujairah.gov.ae

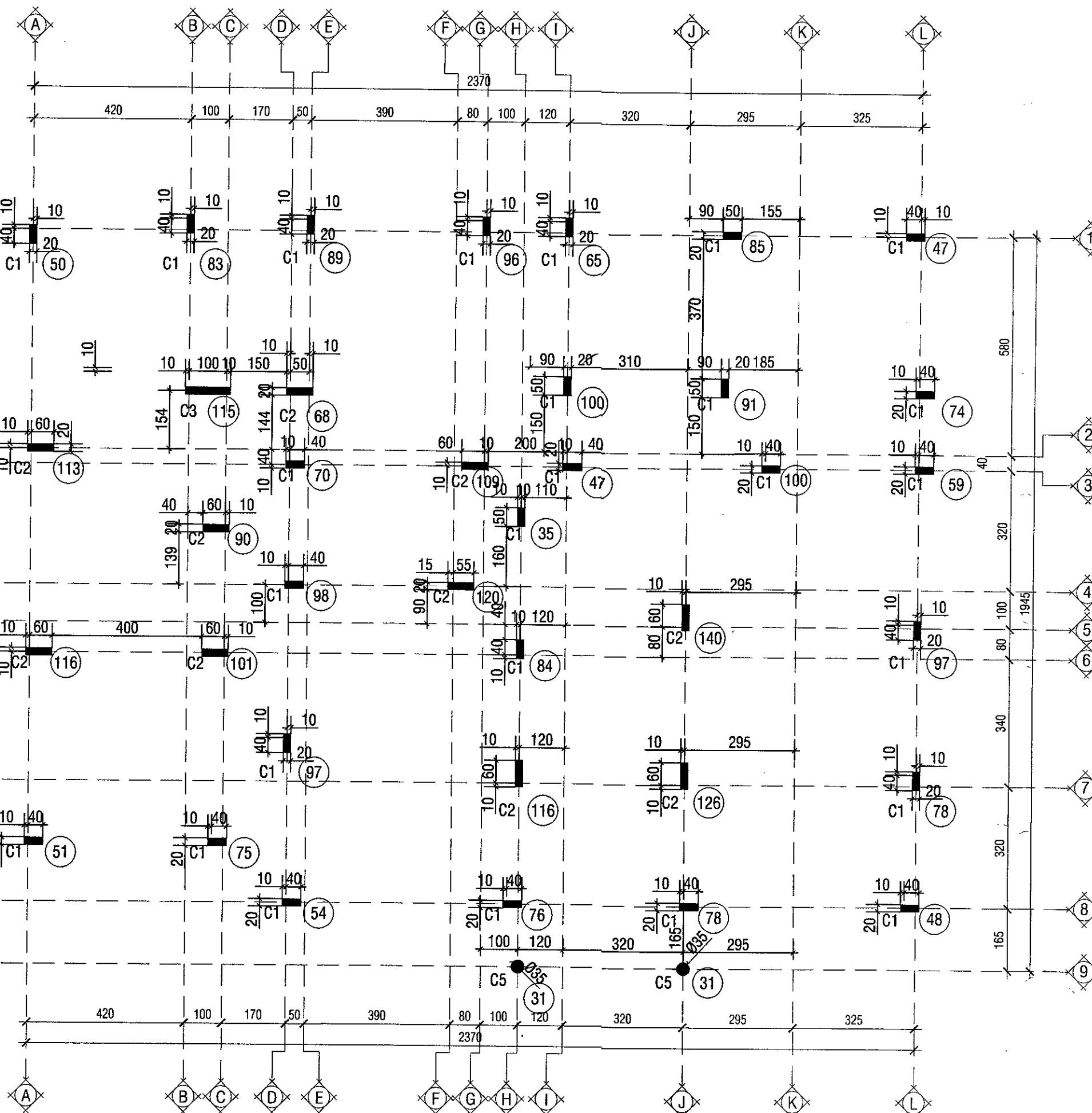


Foundation notes:

- 1 . Foundation designed for G + 1
- 2 . column loads are ultimate in ton
- 3 . S.B.C 18 T / m2

SCHEDULE OF COLUMN

TYPE	SIZE	STEEL	STIRRUPS	REMARKS.
C1	20 x 50	8 - T16	2T8@20 C/C	
C2	20 x 70	12 - T16	3T8@20 C/C	
C3	20 x 120	16 - T16	4T8@20 C/C	
C5	DIA 35	8 - T16	T8@15 C/C	



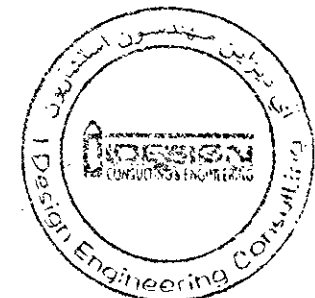
S GROUND FLOOR COLUMNS LAYOUT
GR +1 / 18 T/M2



أي أخطاء تصحيحية أو تنفيذية تقع مسؤولية بالكمال
على المقاول والاستشاري معاً دون ادنى مسؤولية تجاه
البلدية إجازة البناء لمدة ثلاث سنوات فقط.

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OF ANY WORK.



fcu = 35 N/mm
fy = 460 N/mm

REVISION :

NO	DATE	REVISED	APPROVED
01			
02			
03			
04			
05			
06			
07			

PROJECT
VILLA (G+STAIRCASE) +
(BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEI AL KABB
هيثم محمد راشد سالمين الكعبي

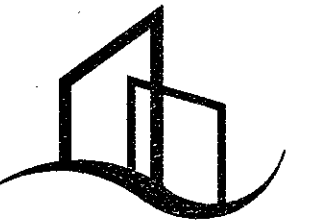
TITLE
GROUND FLOOR COLUMNS LAYOUT

CONSULTANT
i - DESIGN
CONSULTING & ENGINEERING

HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223556 ALAIN: 09-7648995 A.D.: 02-6219990

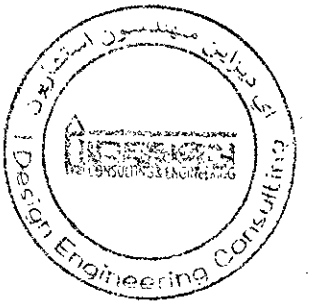
ARCHITECT	AHMAD ABDO	SIGN	
STRUCTURE ENG.		SIGN	
ELECTRICAL ENG.		SIGN	
MECH. ENG.		SIGN	
DRAWN BY	MUHAMMAD SALIM	SIGN	
SCALE:	1:100	DATE	21-07-2018
CHECKED BY:		DATE	

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	S.01	



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OF ANY WORK.



$f_{cu} = 35 \text{ N/mm}$
 $f_y = 460 \text{ N/mm}$

REVISION

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
VILLA (G+STAIRCASE) +
(BOUNDARY WALL)

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABBI
هيثم محمد راشد سالمين الكعبي

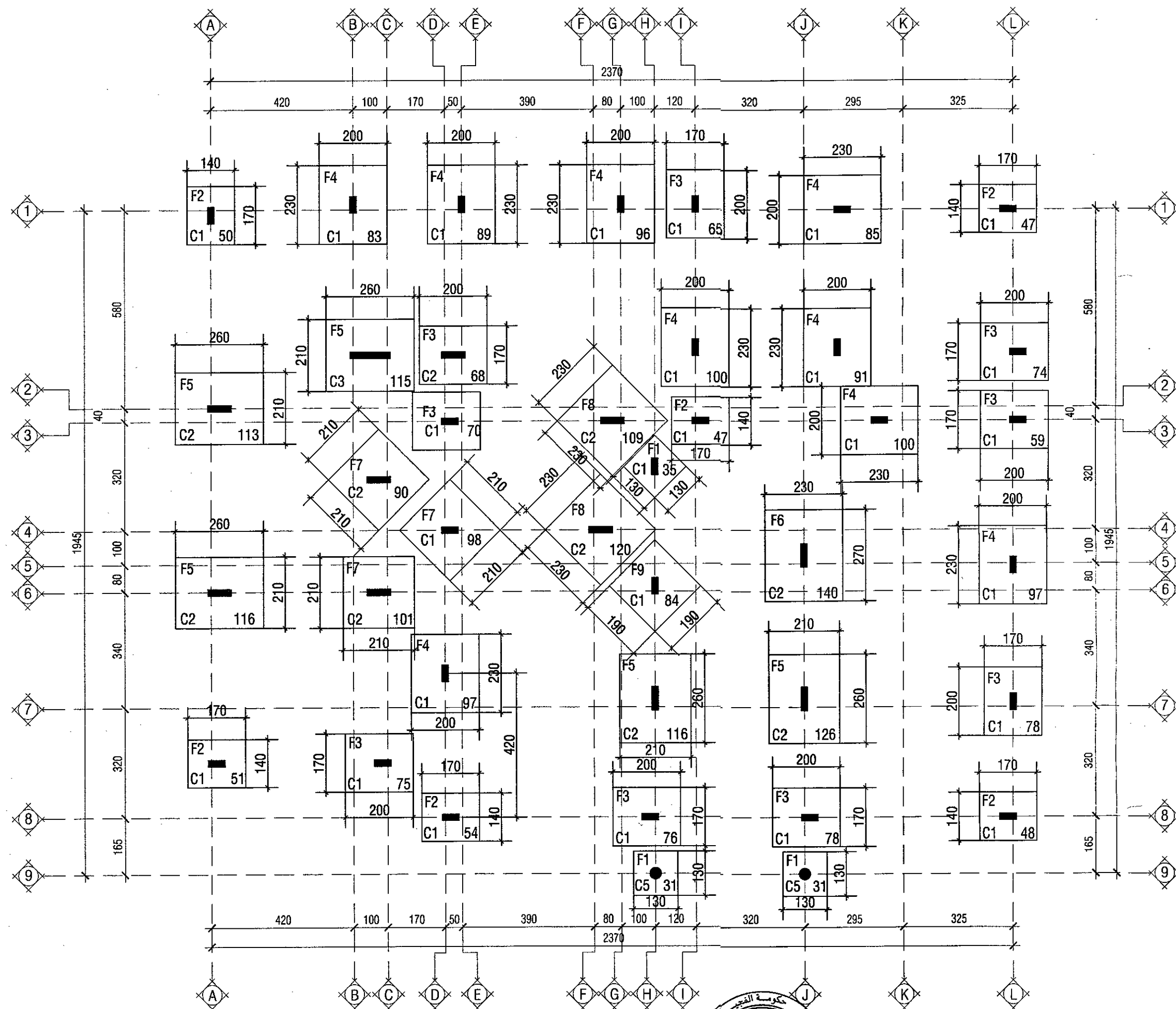
TITLE
FOOTING LAYOUT

CONSULTANT
i-DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH 109-2223556 ALAIN-03-7848995 A.D.:02-8218990

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE : 1:100 DATE : 21-07-2018
CHECKED BY : DATE :

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	GURRAYA
BLOCK NO.	PLOT NO.	SHEET NO. :	
2	112	S.02	



S FOOTING LAYOUT
GR +1 / 18 T/M2



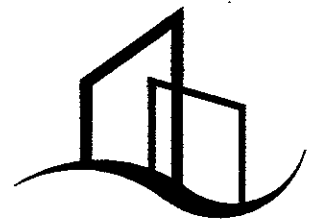
أي إخلاء مسؤولية أو تضحية تقع مسؤولية التكامل
على المصطلح والاستشاري معاً دون ادنى مسؤولية تجاه
البلدية إجازة البناء لمدة ثلاث سنوات فقط.

Foundation notes:

- 1 . Foundation designed for G + 1
- 2 . column loads are ultimate in ton
- 3 . S.B.C 18 T / m2

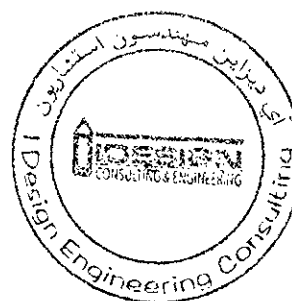
SCHEDULE OF FOOTINGS

TYPE	SIZE (cm x cm)	THICKNESS (CM)	SHORT SPAN (cm)	LONG SPAN (cm)	REMARKS
F1	130 X 130	350	T 12@150 c/c	T 12@150 c/c	35T
F2	140 X 170	400	T 12@120 c/c	T 12@120 c/c	54 T
F3	170 X 200	450	T 12@100 c/c	T 12@100 c/c	78 T
F4	200 X 230	500	T 12@100 c/c	T 12@100 c/c	107 T
F5	210 X 260	500	T 12@100 c/c	T 12@100 c/c	128 T
F6	230 X 270	550	T 16@150 c/c	T 16@150 c/c	145 T
F7	210 X 210	500	T 12@100 c/c	T 12@100 c/c	102 T
F8	230 X 230	550	T 16@150 c/c	T 16@150 c/c	120 T
F9	190 X 190	500	T 12@100 c/c	T 12@100 c/c	84 T



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$f_{cu} = 35 \text{ N/mm}^2$
 $f_y = 460 \text{ N/mm}^2$

REVISION

NO.	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT: **VILLA (G+STAIRCASE) + (BOUNDARY WALL)**

CLIENT: **HAITHAM MOHAMED RASHED SALMEN AL KABBI**
هيثم محمد راشد سالمين الكبي

TITLE: **TIE BEAM LAYOUT**

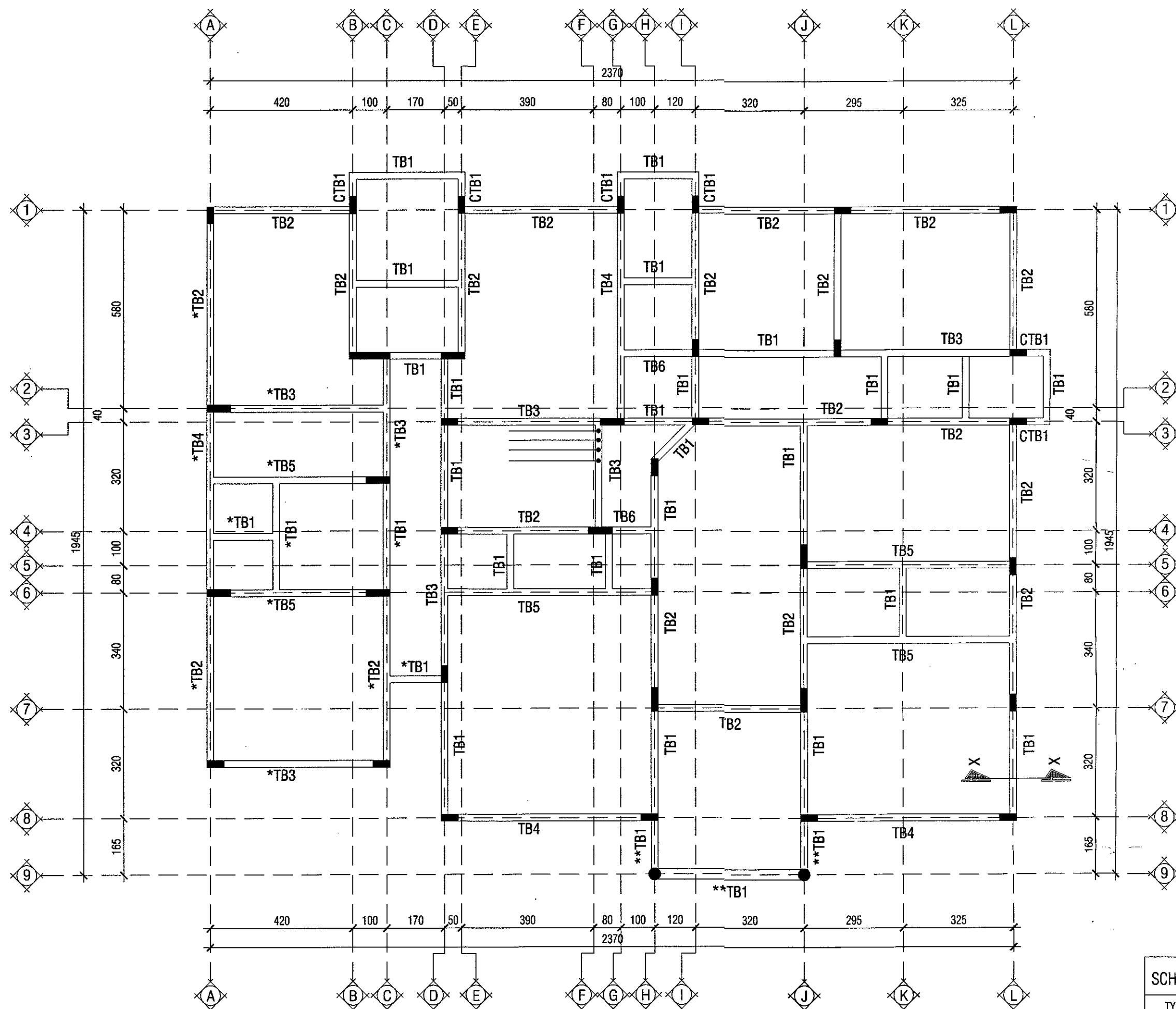
CONSULTANT:

i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH 09-2223556 ALAIN-03-7848996 A.D.-02-9219990

ARCHITECT	AHMAD ABDO	SIGN	
STRUCTURE ENG.		SIGN	
ELECTRICAL ENG.		SIGN	
MECH. ENG.		SIGN	
DRAWN BY	MUHAMMAD SALIM	SIGN	

SCALE: 1:100 DATE: 21-07-2018
CHECKED BY: DATE:

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO.:	
2	112	S.03	



S

TIE BEAM LAYOUT

AT +0.95 LVL.

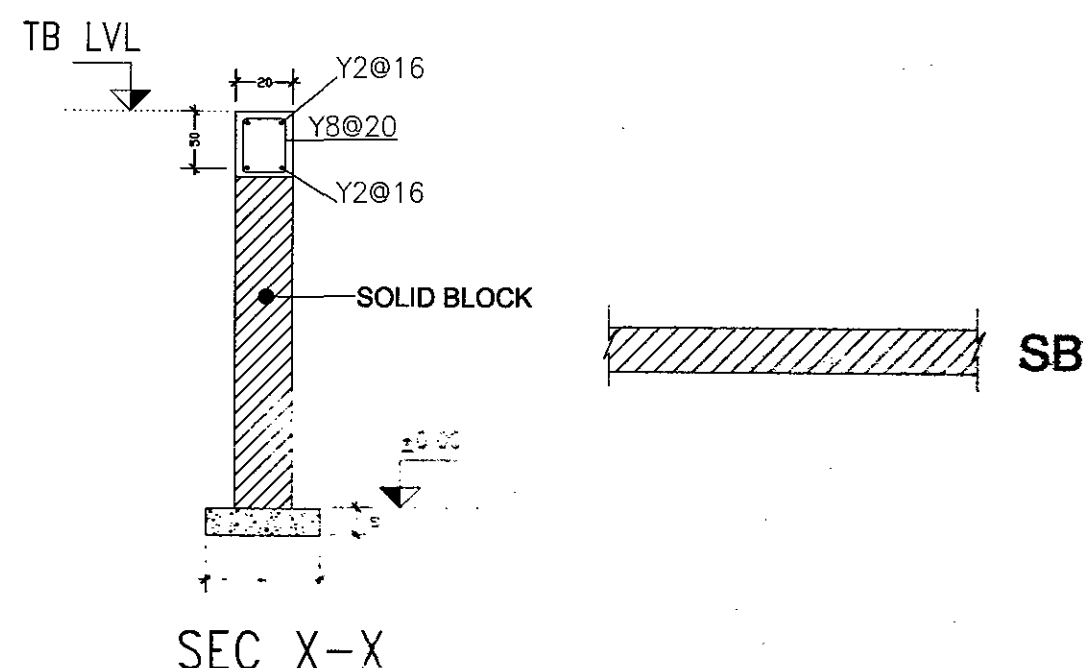
* MARKED TB +0.50

** MARKED TB +0.80



مكتب التصميم والهندسة
i-Design Consulting & Engineering
مكتب التصميم والهندسة
مكتب التصميم والهندسة

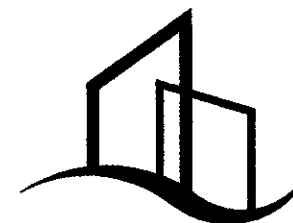
10 THICK P.C.C W/ 4:42 SRC MESH
1000 GAGE PE. FILM
COMPACTED ROAD BASE FILLING
ANTI - TERMITE TREATMENT



Note : Provide solid block above Tie beam to
raise the floor level wherever required

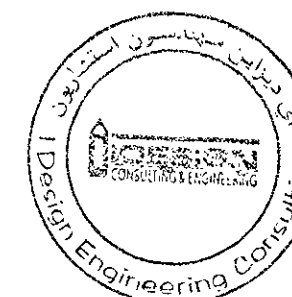
SCHEDULE OF TIE BEAMS

TYPE	SIZE (mm)	BOTTOM STRAIGHT	BOTTOM EXTRA	TOP STRAIGHT	TOP EXTRA	MID	STIRRUPS
TB1	200 X 500	2 T 16	-	2 T 16	-	-	T8@200/c
TB2	200 X 500	2 T 16	1 T 16	2 T 16	1 T 16	-	T8@170/c
TB3	200 X 500	2 T 16	2 T 16	2 T 16	2 T 16	-	T8@150/c
TB4	200 X 500	3 T 16	2 T 16	2 T 16	3 T 16	-	T8@120/c
TB5	200 X 500	4 T 16	2 T 16	3 T 16	3 T 16	-	T8@100/c
TB6/CTB1	200 X 500	2 T 16	-	2 T 16	2 T 16	-	T8@120/c



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$f_{cu} = 35 \text{ N/mm}^2$
 $f_y = 460 \text{ N/mm}^2$

REVISION:

NO	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT
**VILLA (G+STAIRCASE) +
(BOUNDARY WALL)**

CLIENT
HAITHAM MOHAMED RASHED SALMEN AL KABB
هيثم محمد راشد سالمين الكعبي

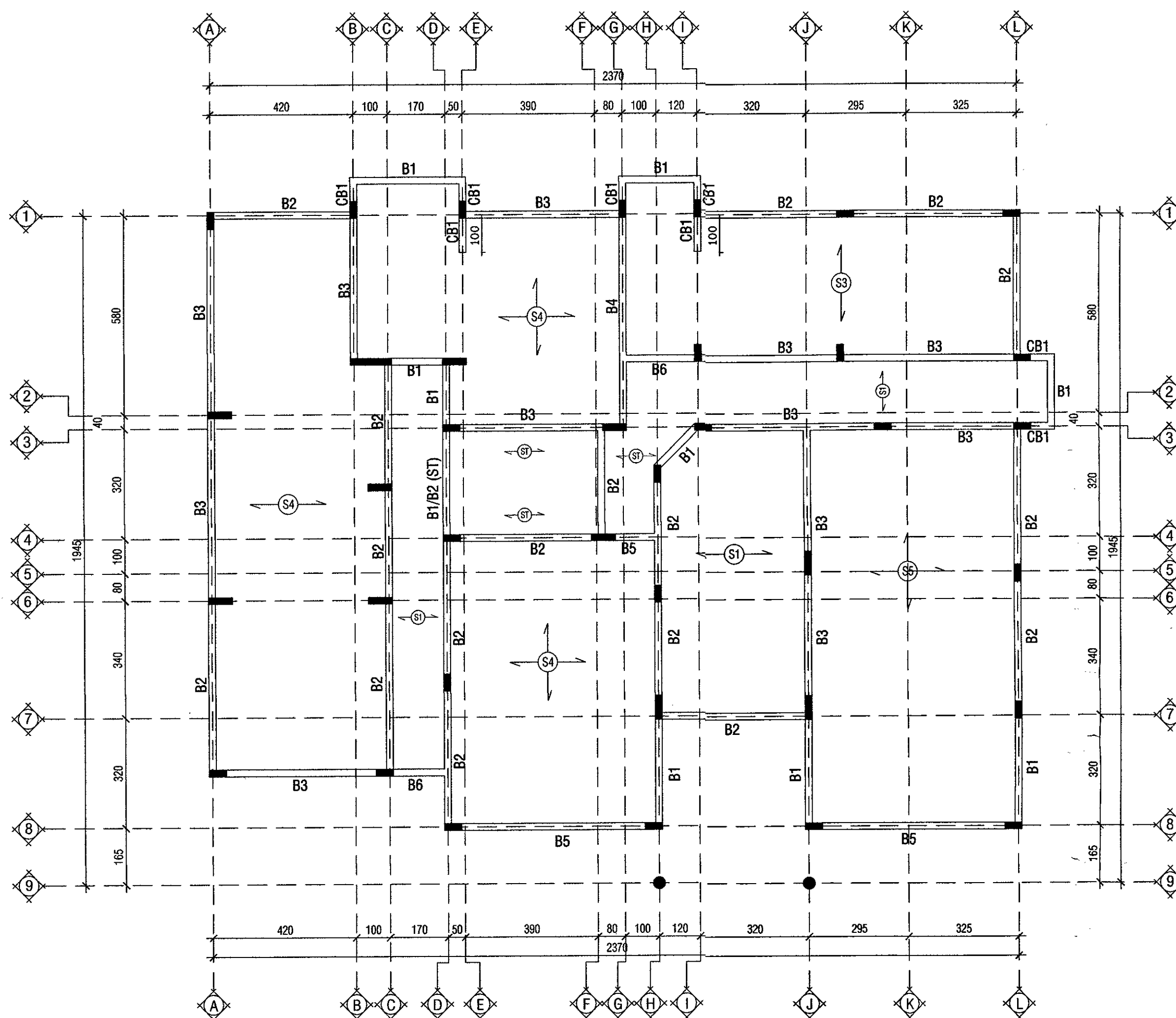
TITLE
GROUND FLOOR BEAM & SLAB LAYOUT

CONSULTANT
i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223556 ALAIN: 03-7648995 A.D.: 02-9219990

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY:	MUHAMMAD SALIM	SIGN

SCALE:	1:100	DATE	21-07-2018
CHECKED BY:		DATE	

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURFAYA
BLOCK NO.	PLOT NO.	SHEET NO.	
2	112	S.04	



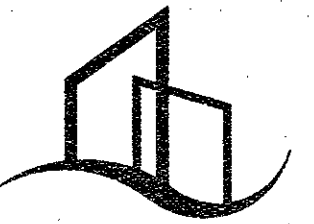
S GROUND FLOOR BEAM & SLAB LAYOUT

SCHEDULE OF BEAM:							
TYPE	SIZE	BOTTOM STRAIGHT	BOTTOM EXTRA	TOP STRAIGHT	TOP EXTRA	MID	STIRRUPS
B1	200 X 600	2T16	-	2T16	-	-	T10@200c/c
B2	200 X 600	2T16	2T16	2T16	2T16	-	T10@170c/c
B3	200 X 600	3T16	2T16	2T16	3T16	-	T10@150c/c
B4	200 X 600	4T16	2T20	3T16	3T20	-	T10@120c/c
B5	200 X 800	4T16	2T16	3T16	3T16	2T12	T10@150c/c
CB1	200 X 600	2T16	-	2T16	2T16	-	T10@120c/c
B6	200 X 600	2T16	-	3T16	3T16	-	T10@120c/c

SCHEDULE OF SOLID SLAB:				
TYPE	SIZE (MM)	SHORT SPAN REINFORCEMENT	LONG SPAN REINFORCEMENT	EXT.TOP@ SUPPORT (L/4)
S1	150	T12@150 MM (B) T10@200 MM (T)	T12@200 MM (B) T10@200 MM (T)	T12@200C/C
S2	170	T12@150 MM (B) T10@200 MM (T)	T12@200 MM (B) T10@200 MM (T)	T12@200C/C
S3	180	T12@120 MM (B) T10@200 MM (T)	T12@150 MM (B) T10@200 MM (T)	T12@200C/C
S4	200	T12@100 MM (B) T12@200 MM (T)	T12@120 MM (B) T10@200 MM (T)	T12@200C/C
S5	230	T12@100 MM (B) T12@200 MM (T)	T12@120 MM (B) T12@200 MM (T)	T12@200C/C
ST	200	T12@200 MM (T&B)	T16@150 MM (T&B)	STAIR

مملكة البحرين
البلدية
2018

أي أخطاء تصحیحها أو تصحیحها بالکامل
على المقاول والاستشاری هما دون أدنى مسؤولية تجاه
البلدية إجازة البناء لمدة ثلاث سنوات فقط.



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OF ANY WORK.

$f_{cu} = 35 \text{ N/mm}^2$
 $f_y = 460 \text{ N/mm}^2$

REVISION :

NO	DATE	REVISED	APPROVED
07			
06			
05			
04			
03			
02			
01			

PROJECT :
**VILLA (G+STAIRCASE) +
(BOUNDARY WALL)**

CLIENT :
HAITHAM MOHAMED RASHED SALMEN AL KABB
هيثم محمد راشد سالمين الكبي

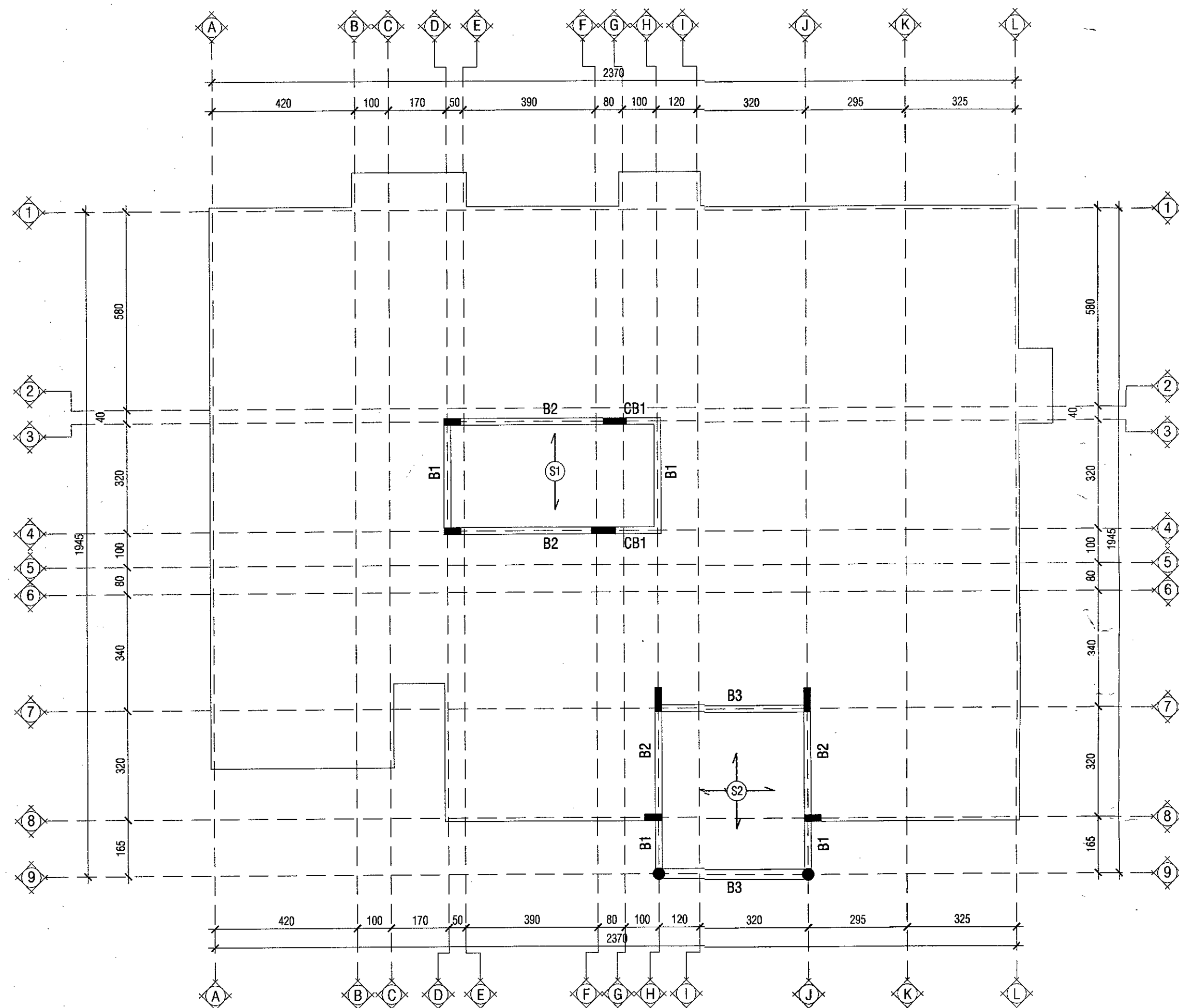
TITLE :
**STAIR ROOF FLOOR BEAM &
SLAB LAYOUT**

CONSULTANT :
i - DESIGN
CONSULTING & ENGINEERING
HEAD OFFICE : FUJAIRAH P.O.BOX - 9500 FUJAIRAH
FUJAIRAH : 09-2223558 ALAIN: 03-7848935 A.D. 02-6219090

ARCHITECT	AHMAD ABDO	SIGN
STRUCTURE ENG.		SIGN
ELECTRICAL ENG.		SIGN
MECH. ENG.		SIGN
DRAWN BY	MUHAMMAD SALIM	SIGN

SCALE : 1:100 DATE : 21-07-2018
CHECKED BY : DATE :

PROJECT NO.	EMIRATES	CITY	LOCATION
P-138	FUJAIRAH	FUJAIRAH	QURRAYA
BLOCK NO.	PLOT NO.	SHEET NO.	
2	112	S.05	



S STAIR ROOF FLOOR BEAM & SLAB LAYOUT

SCHEDULE OF BEAM:							
TYPE	SIZE	BOTTOM STRAIGHT	BOTTOM EXTRA	TOP STRAIGHT	TOP EXTRA	MID	STIRRUPS
B1	200 X 600	2T16	-	2T16	-	-	T10@200/c
B2	200 X 600	2T16	2T16	2T16	2T16	-	T10@170/c
B3	200 X 600	3T16	2T16	2T16	3T16	-	T10@150/c
B4	200 X 600	4T16	2T20	3T16	3T20	-	T10@120/c
B5	200 X 800	4T16	2T16	3T16	3T16	2T12	T10@150/c
CB1	200 X 600	2T16	-	2T16	2T16	-	T10@120/c

SCHEDULE OF SOLID SLAB:				
TYPE	SIZE (MM)	SHORT SPAN REINFORCEMENT	LONG SPAN REINFORCEMENT	EXT.TOP@ SUPPORT (L/4)
S1	150	T12@150 MM (B) T10@200 MM (T)	T12@200 MM (B) T10@200 MM (T)	T12@200C/C
S2	170	T12@150 MM (B) T10@200 MM (T)	T12@200 MM (B) T10@200 MM (T)	T12@200C/C
S3	180	T12@120 MM (B) T10@200 MM (T)	T12@150 MM (B) T10@200 MM (T)	T12@200C/C
S4	200	T12@100 MM (B) T12@200 MM (T)	T12@120 MM (B) T12@200 MM (T)	T12@200C/C
S5	230	T12@100 MM (B) T12@200 MM (T)	T12@120 MM (B) T12@200 MM (T)	T12@200C/C
ST	200	T12@200 MM (T&B)	T16@150 MM (T&B)	STAIR



إشياء تصممها أو تنفيذها بالكامل
على المتاول والاستشاري معاً دون أدنى مسؤولية تجاه
البلدية إجازة البناء لمدة ثلاث سنوات فقط.