AFFAIR:	AL MORJAN COMPOUND / FAMILY VILLA	"DATE Frist Issue"	REVISION
" SA21.49-50 FSK "		4-Nov-22	00

ISSUED FOR CONSTRUCTION - LIST OF DRAWING

"BUILDING "	" N° TRADE "			"N° OF DOCUMENT "	" NAME OF FILES "	"DATE OF DRAWING "	"DATE OF TRANSMITTAL "	"PHASE ISSUED FOR CONSTRUCTION"	SCALE	"KEY "	"SIZE OF DOCUMENT "	"REVISION "	"REVISION DATE "	"REVISION "	"REVISION DATE "	"REVISION "	"REVISION DATE "	"REVISION "	"REVISION DATE "
			GENERAL																
MV	SC	00	LIST OF DRAWINGS	0001	SA21.49-50-SC-MV-00-0-0001	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	00	GENERAL NOTES	0002	SA21.49-50-SC-MV-00-0-0002	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	00	GENERAL DETAILS SHEET 1 OF 3	0003	SA21.49-50-SC-MV-00-0-0003	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	00	GENERAL DETAILS SHEET 2 OF 3	0004	SA21.49-50-SC-MV-00-0-0004	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	00	GENERAL DETAILS SHEET 3 OF 3	0005	SA21.49-50-SC-MV-00-0-0005	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
			PLANS																
MV	SC	01	AXES AND COLUMNS AT BASEMENT FLOOR LEVEL	0001	SA21.49-50-SC-MV-01-0-0001	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04		-	-	-	-	-
MV	SC	01	AXES AND COLUMNS AT GROUND FLOOR LEVEL	0001	SA21.49-50-SC-MV-01-1-0001	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04	-	-	-	-	-	-
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MV	SC	01	FOUNDATION LAYOUT PLAN	0002	SA21.49-50-SC-MV-01-0-0002	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	01	FOUNDATION REINFORCEMENT PLAN	0003	SA21.49-50-SC-MV-01-0-0003	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	01	GROUND FLOOR FRAMING PLAN	0002	SA21.49-50-SC-MV-01-1-0002	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04	-	-	-	-	-	-
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MV	SC	01	FIRST FLOOR FRAMING PLAN	0002	SA21.49-50-SC-MV-01-2-0002	2022-11-04	2022-11-04	FC	1/100		A0	00	2022-11-04	-	-	-	-	-	-
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			SCHEDULES																
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MV	SC	02	SCHEDULES SHEET 3OF5	0003	SA21.49-50-SC-MV-02-0-0003	2022-11-04	2022-11-04	FC	1/25		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	02	SCHEDULES SHEET 4OF5	0004	SA21.49-50-SC-MV-02-0-0004	2022-11-04	2022-11-04	FC	1/25		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	02	SCHEDULES SHEET 5OF5	0005	SA21.49-50-SC-MV-02-0-0005	2022-11-04	2022-11-04	FC	NTS		A0	00	2022-11-04	-	-	-	-	-	-
			SECTIONS AND DETAILS																
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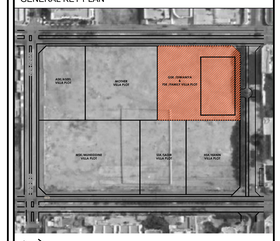
MV	SC	03	SECTIONS AND DETAILS SHEET 9OF9	0009	SA21.49-50-SC-MV-03-0-0009	2022-11-04	2022-11-04	FC	1/25		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	04	STAIRS AND RAMPS DETAILS SHEET 1OF2	0001	SA21.49-50-SC-MV-04-0-0001	2022-11-04	2022-11-04	FC	AS SHOWN		A0	00	2022-11-04	-	-	-	-	-	-
MV	SC	04	STAIRS AND RAMPS DETAILS SHEET 2OF2	0002	SA21.49-50-SC-MV-04-0-0002	2022-11-04	2022-11-04	FC	1/25		A0	00	2022-11-04	-	-	-	-	-	-

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
3.CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

LIST OF DRAWINGS

Structural Package

SCALE N.T.S

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-00-0-0001	FC-00

1- GENERAL

1- DO NOT SCALE FROM DRAWINGS, ALL DIMENSIONS SHOULD BE READ OR COMPUTED.

2- UNLESS OTHERWISE NOTED ON THE DRAWINGS, DIMENSIONS ARE GIVEN IN MILLIMETERS AND LEVELS IN METERS.

3- WHERE DOCUMENTS ARE REFERENCED IN THE GENERAL AND DESIGN NOTES, THEY SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED OR SHOWN.

4- ALL STRUCTURAL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH SPECIFICATIONS, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

5- BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AGAINST THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AS WELL AS THE DRAWINGS OF ALL OTHER DISCIPLINES, AND REPORT DISCREPANCIES TO THE CONSULTANT. REFER TO THE ARCHITECTURAL AND OTHER DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. HOWEVER, OBTAIN THE CONSULTANT'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

6- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AS WELL AS THE DRAWINGS OF ALL OTHER CONSULTANTS, FOR LOCATIONS AND SIZES OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.

7- ALL OPENINGS SHALL BE FORMED OR SLEEVED BEFORE PLACING CONCRETE.

8- ALL INVERTED BEAMS TO BE POURED MONOLITHICLY WITH SLABS.

9- THE SURFACES OF ALL UNDERGROUND CONCRETE ELEMENTS SHOULD RECEIVE AT LEAST TWO LAYERS OF FULLY BONDED PRE-APPLIED HDPE PRESSURE SENSITIVE WATERPROOFING MEMBRANE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

10- THE EXACT LOCATION OF ALL DUCTS, PIPE OPENING, SLEEVES, ELECTRICAL CONDUITS & BOXES EMBEDDED IN CONCRETE SHALL BE REVIEWED PRIOR TO POURING.

11- EXACT LOCATIONS AND DIMENSIONS OF PITS, OPENINGS, TRENCHES, RECESSING AND THICKENING SHALL BE COORDINATED PRIOR TO POURING OF CONCRETE.

12- IN CASE OF DISCREPANCY BETWEEN THE SITE CONDITION AND THE DESIGN DRAWINGS, THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER IMMEDIATELY.

2- DESIGN CRITERIA

2-1. CODES & STANDARDS

-SAUDI BUILDING CODE FOR CONCRETE STRUCTURES (SBC-304-2018)
-SAUDI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (SBC-1101)
-MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (SBC-301)

2.2- DESIGN LOADS

A- DEAD LOADS

1- WEIGHT OF REINFORCED CONCRETE---------- 25 KN/m3
2- PLAIN CONCRETE---------- 22 KN/m3
3- HOLLOW CONCRETE MASONRY WALLS (150mm THICK.)-------- 1.35 KN/m2
4- SOLID CONCRETE MASONRY WALLS(200mm THICK.)---------- 3.90 KN/m2
5- FLOORING (ROOMS AND CORRIDORS)---------- 2.0 KN/m2
6- FLOORING (ACCESSIBLE ROOF)---------- 4.0 KN/m2
7- FLOORING (INACCESSIBLE ROOF)---------- 4.5 KN/m2
8- FLOORING (CEILING)---------- 0.50 KN/m2
9- FLOORING (GARAGE)---------- 1.50 KN/m2

B- LIVE LOADS

UNLESS OTHERWISE NOTED ON THE DRAWINGS, LIVE LOADS ARE TAKEN AS FOLLOWS :

1- ROOF
- ROOF (INACCESSIBLE)--------- 1.0 KN/m2
- ROOF (ACCESSIBLE)---------- 2.0 KN/m2

2- FLOORS
- ROOMS ---------- 2.0 KN/m2
- CORRIDORS ---------- 5.0 KN/m2
- STAIRS ---------- 5.0 KN/m2
- LOBBIES ---------- 5.0 KN/m2
- DINNING ROOMS ---------- 5.0 KN/m2
- FIXED SEATS ---------- 3.0 KN/m2
- STORAGE WAREHOUSE(LIGHT) --------- 6.0 KN/m2
- BALCONIES ---------- 5.0 KN/m2
- GARAGE ---------- 5.0 KN/m2

C- SEISMIC LOADS

- SEISMIC LOAD : AS PER SBC-301

SEISMIC COEFFICIENT Ss	-	35%g
SEISMIC COEFFICIENT S1	-	10%g
SOIL PROFILE TYPE	-	C
RESPONSE MODIFICATION	-	R = 4.0
IMPORTANCE FACTOR	-	1.0

3- MATERIALS

3.1- CONCRETE

1- UNLESS OTHERWISE SPECIFIED, REINFORCED CONCRETE SHALL HAVE A MIN. 28 DAYS CYLINDER STRENGTH OF 40 N/mm2 IN BEAMS,SLABS, WALLS, COLUMNS AND RC FOUNDATIONS.

2- PLAIN CONCRETE USED IN BLINDING AND SHALL HAVE A MINIMUM 28 DAYS CYLINDER STRENGTH OF 20 N/mm2

3.2-REINFORCING STEEL :

1- REINFORCING STEEL BARS TO BE ACCORDING TO ASTM A615 LATEST REVISION AND DENOTED BY :
"T" SHALL BE DEFORMED HIGH GRADE STEEL OF YIELD STRENGTH 420 N/mm2 (MINIMUM).
"Y"SHALL BE DEFORMED MILD STEEL OF YIELD STRENGTH 280 N/mm2 (MINIMUM)

3.3- CEMENT

1- ALL CONCRETE BELOW GRADE AND IN CONTACT WITH GRADE SHALL CONTAIN SUITABLE TYPE OF CEMENT ACCORDING TO GEOTECHNICAL REPORT.

2- FOR ALL CONCRETE ABOVE GROUND LEVEL, USE ORDINARY PORTLAND CEMENT.

3.4- AGGREGATES

NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 20 mm.

3.5- CONCRETE PROTECTION COVER

CONCRETE COVER FOR REINFORCEMENT SHALL BE MEASURED FROM THE CONCRETE SURFACE TO THE OUTERMOST SURFACE OF THE STEEL i.e TO THE OUTER EDGE OF STIRRUPS, TIES OR SPIRALS ENCLOSING MAIN BARS & TO THE OUTERMOST LAYER OF BARS IF MORE THAN ONE LAYER IS USED WITHOUT STIRRUPS OR TIES .
THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:-
1- FOR SLABS 30mm.
2- FOR DROP BEAMS, AND COLUMNS : 40mm.
3- FOR BOTTOM OF FOUNDATION : 100mm.
4- FOR ALL SURFACES IN CONTACT WITH WATER OR VAPOUR (COLUMN INSIDE WATER TANK) : 75mm.
5- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH EXCEPT BOTTOM OF FOUNDATION : 75mm.
6- FOR CONCRETE SHEAR WALLS : 40mm.
7- THE TENSILE STRENGTH IN REINFORCEMENT SHOULD BE > 1.25 fy.
8- THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND FULL BAR BENDING SCHEDULE FOR ENGINEER'S APPROVAL.

3.6- WATER PROOFING :

UNLESS OTHERWISE SPECIFIED,

1- APPROVED WATERPROOFING MEMBRANE SHALL BE LAID BELOW GRADE, ON BASEMENT WALLS, UNDER AND AROUND THE MAT FOUNDATIONS

2- AN APPROVED WATERPROOFING CONCRETE ADMIXTURE SHALL BE ADDED TO THE CONCRETE OF THE R.C. WATERTANK FLOOR, WALL AND R.C. SWIMMING POOLS.

3- APPROVED WATERPROOFING MEMBRANE IS TO BE LAID ABOVE THE BASEMENT FLOOR SLAB THAT CONTACTS WITH SOIL.

4- FULLY BONDED HDPE PRESSURE SENSITIVE WATERPROOFING MEMBRANE SHALL BE APPLIED FOR ALL BURIED STRUCTURAL ELEMENTS EXPOSED TO EARTH.

3.7-MASONRY

1- MASONRY CONSTRUCTION SHALL CONFORM TO UBC RULES CHAPTER 21 REQUIREMENT.

2- ALL CONCRETE BLOCK SHALL COMPLY WITH ASTM C129 OR ASTM C90.

3- MASONRY CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY SHORING AND BRACING TO MAINTAIN WALL SHAPE, LINE AND DIMENSION IN CONFORMANCE WITH DRAWINGS, AGAINST WIND AND CONSTRUCTION LOADS.

4- WHERE CONTROL JOINTS NOT SHOWN, SUBMIT PROPOSED LOCATIONS FOR APPROVAL BY THE ENGINEER.

4- CONSTRUCTION:

1- THE CONTRACTOR IS TO PROVIDE THE SUITABLE TEMPORARY SHORING SYSTEM (IF REQUIRED BASED ON GEO-TECHNICAL RECOMMENDATIONS) TO MAKE SURE THE SAFETY OF EXISTING ROADS AND BUILDINGS AROUND THE LIMIT OF BASEMENT DURING EXCAVATION AND CONSTRUCTION ACTIVITIES OF BASEMENT CONSTRUCTION AS WELL.

2- THE CONTRACTOR IS TO INVESTIGATE AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

3- PRIOR TO PROCEEDING WITH CONSTRUCTION OF FOOTINGS, THE CONTRACTOR IS RESPONSIBLE FOR TAKING NECESSARY ACTIONS TO CHECK AND CONFIRM THAT THE EXCAVATION SHALL NOT DAMAGE, DISRUPT OR IN ANY WAY NEGATIVELY IMPACT EXISTING BURIED UTILITIES

4- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING NEARBY EXISTING STRUCTURAL ELEMENTS AND UTILITIES IN STABLE CONDITIONS AND ENSURING THAT NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITY. RELIABLE MONITORING SYSTEM TO THE SATISFACTION OF THE ENGINEER IS MANDATORY DURING ALL STAGES OF CONSTRUCTION.

5- SPECIAL MEASUREMENTS FOR BATCHING, PLACING AND CURING OF CONCRETE OF MASS ELEMENTS ARE REQUIRED TO CONTROL HEAT GAIN AND TEMPERATURE GRADIENT.

5- FOUNDATION DESIGN:

1- BASED ON THE SOIL PROFILE ENCOUNTERED AND THE RECOMMENDATIONS OF GEOTECHNICAL INVESTIGATION REPORT NO.(YAO-S-220117/1), CAST IN-PLACE REINFORCED CONCRETE SHALLOW FOUNDATIONS CAN SAFELY BE USED

2- FOR RAFT FOUNDATION, THE NET ALLOWABLE SOIL BEARING CAPACITY IS 160 KPA AT FOUNDATION LEVEL NOT LESS THAN 3.0m BELOW THE EXISTING GROUND LEVEL.

3- FOR ISOLATED FOUNDATION, THE NET ALLOWABLE SOIL BEARING CAPACITY IS 140 KPA AT FOUNDATION LEVEL (-1.70) BELOW THE FINISH FLOOR LEVEL.

4- BACKFILLING TO BE COMPACTED LAYERS EACH LAYER NOT TO EXCEED 200MM. AND TO ACHIEVE 95 % OF THE MODIFIED PROCTOR DRY DENSITY TEST. LAST COMPACTED LAYER BELOW FOUNDATION SHALL HAVE 98 % OF THE MODIFIED PROCTOR DRY DENSITY TEST.

5- GRAVEL FILTER MATERIAL WITH MINIMUM 300mm THICKNESS TO BE PROVIDED UNDER THE BOTTOM OF BASEMENT FOUNDATION.

6- FOR LATERAL EARTH PRESSURE CALCULATION THE FOLLOWING VALUES TO BE ADOPTED:
- ANGLE OF INTERNAL FRICTION OF SOIL.....35°
- ACTIVE EARTH PRESSURE COEFFICIENT Ka.....0.27
- AT-REST EARTH PRESSURE COEFFICIENT K0.....0.43
- PASSIVE EARTH PRESSURE COEFFICIENT KP.....3.69
- COEFFICIENT OF FRICTION μ 0.43

6- CAMBERING :

THE CONTRACTOR SHALL STUDY AND CALCULATE THE CAMBER REQUIRED FOR SLABS & BEAMS AS PER ACI (318-14) REQUIREMENTS BASED ON EFFECTIVE STIFFNESS & MOMENT OF INERTIA. THE FOLLOWING VALUES CAN BE USED AS A GUIDE ONLY :

SPAN(M.)	6.0-9.0	9.0-12.0	12.0-15.0	15.0-18.0
CAMBER cm	2	3	4	6

SYMBOLS :

TOP OF CONCRETE LEVEL IN PLAN
TOP OF CONCRETE LEVEL IN SECTION OR ELEVATION
SECTION
OPENING
EXPANSION JOINT WITH APPROVED SEALANT

REINFORCEMENT FOR SOLID SLAB :

TOP BAR
BOTTOM BAR
RFT. CONCRETE ELEMENT
PLAIN CONCRETE ELEMENT

LEGEND :

T.O.C.	TOP OF CONCRETE	BLK.	BLOCK	G.W.	GROUND WALL
F.G.L.	FINISH GRADE LEVEL	BOT.	BOTTOM	H, HGT.	HEIGHT
O.C.	ON CENTERS	BSMT.	BASEMENT	HEX.	HEXAGON
E.W.	EACH WAY	CHAM.	CHAMFER	HOR.	HORIZONTAL
E.F.	EACH FACE	CLR.	CLEAR	H.P.	HIGH POINT
F1	FOOTING 1	CL.	CLEARANCE	INS.	INSULATION
C1	COLUMN 1	CONC.	CONCRETE	INSITU	CAST-IN-PLACE
HB1	HELLIPAD BEAM 1	CONC. BLK.	CONCRETE BLOCK	INTER	INTERMEDIATE
B1	BEAM 1	C.J	CONSTRUCTION JOINT	INTR.	INTERIOR
GB1	GROUND BEAM 1	DET.	DETAIL	L	LENGTH
CA1	CANTILEVER BEAM 1	DIM.	DIMENSION	L.B.	LINTEL BEAM
B1	BEAM 1	DISC.	DISCONTINUOUS	LG.	LONG
V.I.F.	VERFY IN FIELD	D.P.	DAMP PROOFING	MANUF.	MANUFACTURER
TYP.	TYPICAL	DN.	DOWN	MAT'L.	MATERIAL
U.O.N.	UNLESS OTHERWISE NOTED	EA.	EACH	MAX.	MAXIMUM
T & B	TOP AND BOTTOM	ELEVR	ELEVATOR	MEZZ.	MEZZANINE
BR.	BRANCH	EQPT.	EQUIPMENT	MEMB.	MEMBRANE
ADD.	ADDITIONAL STEEL	EQUIV.	EQUIVALENT	MET.	METAL
RFT.	REINFORCEMENT	EXIST.	EXISTING	MIN.	MINIMUM
DWG.	DRAWING	EXP. JT.	EXPANSION JOINT	M.O.	MASONRY OPENING
&	AND	EXTR.	EXTERIOR	MWP	MEMBRANE WATER PROOFING
L	ANGLE	EXT.	EXTERNAL	M.W.R.	MINIMUM WALL REINFORCEMENT
@	AT	F.B.	FOOTING BEAM	NIC	NOT IN CONTRACT
AR, ARCH.	ARCH , ARCHITECTURAL	FDN.	FOUNDATION	N.T.S.	NOT TO SCALE
CL, CTR.	CENTERLINE	F.G.L.	FINISH GRADE LEVEL	NOM.	NOMINAL
D. DIA. Ø	DIAMETER	FIN.	FINISH	O.C.	ON CENTER
>	GREATER THAN	F.L.	FLOOR LEVEL	O.A.	OVER ALL
<	LESS THAN	FLR.	FLOOR	OPNG.	OPENING
#, NO.	NUMBER	G	GIRDER	ORIG.	ORIGINAL
ADJ.	ADJACENT	GR	GRADE	PEJ	PREMOULDED EXPANSION JOINT
ANCH.	ANCHORAGE	GRD. FLR.	GROUND FLOOR	ORIG.	ORIGINAL
BLDG.	BUILDING	GB	GRADE BEAM	G.W.L	GROUND WATER LEVEL
BLKG.	BLOCKING	GRD.	GROUND		

GENERAL NOTES:

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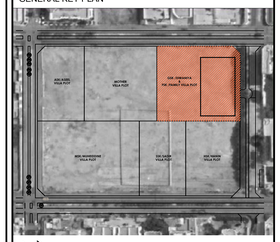
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:
DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:
Al Morjan Compound Family Villa
JEDDAH, KSA

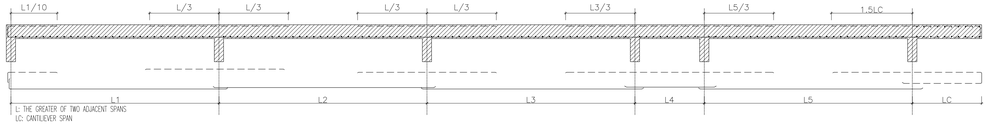
SHEET CONTENTS:
GENERAL NOTES

Structural Package

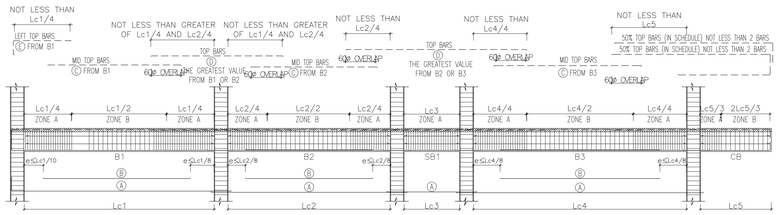
SCALE N.T.S

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

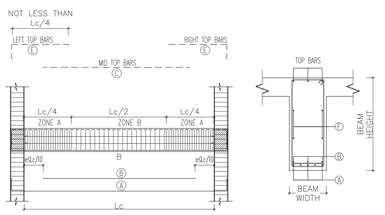
1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-00-0-0002	FC-00



01 TYPICAL DETAILS OF SOLID SLAB REINFORCEMENT

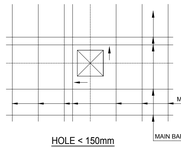


2a TYPICAL CONTINUOUS BEAM ELEVATION AND SECTIONS



2b TYPICAL SIMPLE BEAM ELEVATION AND SECTIONS

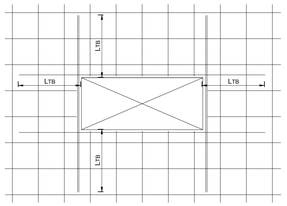
02 TYPICAL SUSPENDED BEAM DETAILS



HOLE < 150mm

3a DETAIL - 1

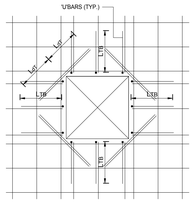
NOTE:
BARS MAY BE DISPLACED, NO ADDITIONAL BARS NECESSARY.



150mm < HOLE < 450mm

NOTE:
CUT BARS INTERRUPTED BY HOLE. PROVIDE TRIMMER BARS FOR AT LEAST HALF OF CUT BARS AREA ON BOTH SIDES.

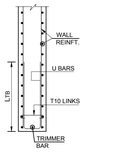
3b DETAIL - 2



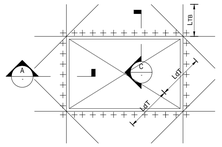
NOTE: PROVIDE TRIMMER BARS AS DETAIL 2. IN addition PROVIDE DIAGONAL TRIMMERS OF 2-T16 MIN. PROVIDE ALSO VERTICAL AND HORIZONTAL U-BARS SAME TYPE & DIA. AS THE VERTICAL & HORIZONTAL BARS RESPECTIVELY.

450< HOLE < 900mm

3c DETAIL - 3



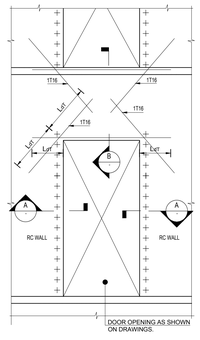
3h SECTION C



NOTE:
+ DENOTES THE LOCATION OF A T10 LINK.

HOLE >900mm

3d DETAIL - 4



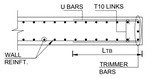
DOOR OPENINGS
(WALL REINFT. NOT SHOWN FOR CLARITY)

NOTE:
+ DENOTES THE LOCATION OF A T10 LINK.

3e DETAIL - 5

NOTES:

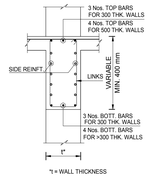
1. TOP AND BOTTOM BARS IN SECTION B TO HAVE SAME DIAMETER AS MAIN HORIZONTAL BARS IN ADJACENT SHEAR WALLS BUT NOT LESS THAN 25mmØ.
2. SIDE REINFORCEMENT IN SECTION B TO BE PROVIDED ONLY WHEN OVERALL DEPTH OF BEAM IS GREATER THAN OR EQUAL TO 750mm. DIAMETER OF THESE BARS TO BE SAME AS MAIN HORIZONTAL BARS AND NOT MORE THAN 16mm.
3. LINKS IN SECTION B-B TO HAVE THE SAME DIAMETER AND SPACING AS HORIZONTAL BARS IN ADJACENT SHEAR WALLS AND NO MORE THAN 12mm. THE SPACING BETWEEN LINKS NOT TO EXCEED 150mm.



NOTES:

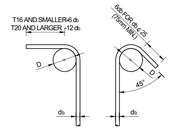
1. PROVIDE TRIMMER BARS AS DETAIL-3, UNLESS SEPARATE DETAILS ARE GIVEN.
2. LINKS TO CONFORM WITH SPACING OF WALL REINFORCEMENT NOT TO EXCEED 200mm.

3f SECTION A



3g SECTION B

03 TYPICAL TRIMMING DETAILS OF OPENINGS IN SHEAR WALLS U.N.O

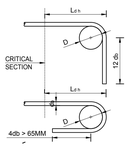


TYPE A "da"	TYPE B "D" MIN
≤ 16	4 db
20 -25	6 db

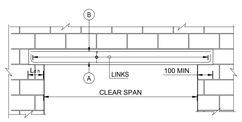
STANDARD HOOK DETAILS FOR STIRRUPS & TIES

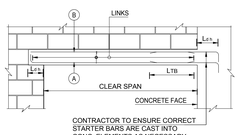
"da"	"D" MIN.
10 - 25	6 db
28 - 36	8 db

STANDARD HOOK DETAILS FOR BARS



04 TYPICAL HOOK DETAILS





CONTRACTOR TO ENSURE CORRECT STARTER BARS ARE CAST INTO CONC. ELEMENTS AS NECESSARY.

05 TYPICAL LINTEL DETAILS

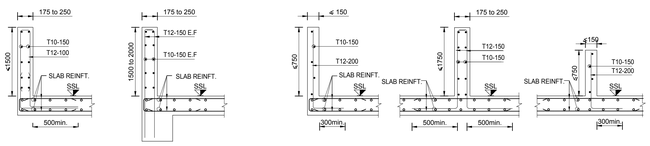
(NON LOAD BEARING BLOCK WALLS)

SCHEDULE OF LINTELS UNO.

CLEAR SPAN WIDTH	LINTEL SIZE		REINFORCEMENT			
	WIDTH	DEPTH	A	B	LINKS
≤2500	200	200	2-T12	2-T12	T8-125
>2500 ≤4500	200	300	2-T16	2-T16	T8-175
>4500 ≤6500	200	400	2-T20	2-T16	T8-200

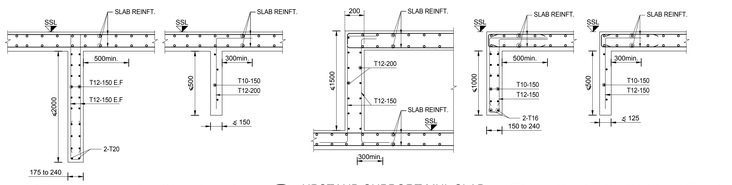
NOTES:

1. BEARING ON BLOCK WALL ON EITHER SIDE OF OPENING SHALL BE AT LEAST EQUAL TO THE OVERALL DEPTH OF THE LINTEL.
2. OVERALL LINTEL DEPTHS COULD BE INCREASED TO SUIT BLOCK- WORK COURSING.
3. GRADE OF CONCRETE SHALL BE C30



6a AT SLAB EDGES (PARAPET)

6b WITHIN SLABS (PARAPET)

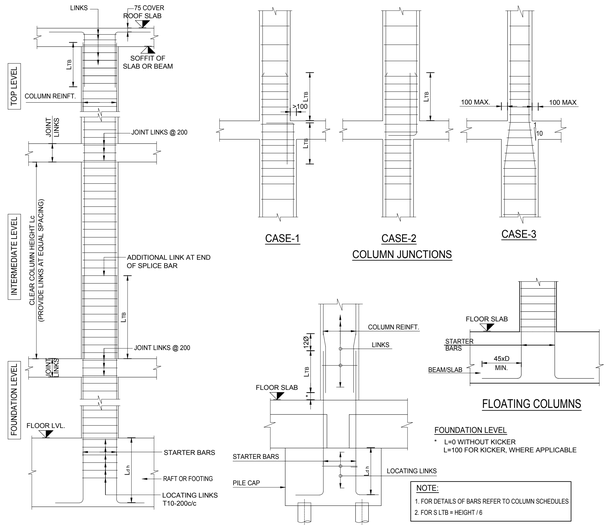


6c WITHIN SLABS (DOWNSTAND)

6d UPSTAND SUPPORT MUL SLAB

6e AT SLAB EDGES (DOWNSTAND)

06 TYPICAL UPSTAND / DOWNSTAND DETAILS (U.N.O.)

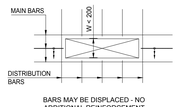


FOUNDATION LEVEL
* L=0 WITHOUT KICKER
L=100 FOR KICKER, WHERE APPLICABLE

NOTE:
1. FOR DETAILS OF BARS REFER TO COLUMN SCHEDULES
2. FOR B LTB = HEIGHT / 6

07 TYPICAL COLUMN DETAILS

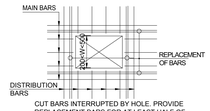
DETAIL TYPE A - FOR GRAVITY, ORDINARY MOMENT FRAMES AND INTERMEDIATE MOMENT FRAMES



BARS MAY BE DISPLACED - NO ADDITIONAL REINFORCEMENT NECESSARY.

8a DETAIL - 1

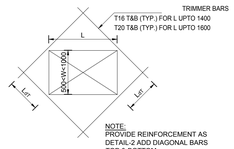
HOLE < 200mm. IN WIDTH AT RIGHT ANGLE TO MAIN SPAN BARS



CUT BARS INTERRUPTED BY HOLE. PROVIDE REPLACEMENT BARS FOR AT LEAST HALF OF CUT BARS AREA ON BOTH SIDES.

8b DETAIL - 2

200 < HOLE < 500 WIDTH AT RIGHT ANGLE TO MAIN SPAN BARS



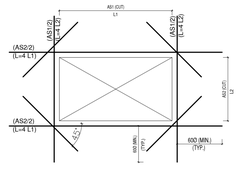
NOTE:
PROVIDE REINFORCEMENT AS DETAIL-2 ADD DIAGONAL BARS TOP & BOTTOM.

8c DETAIL - 3

500 < HOLE < 1000 WIDTH AT RIGHT ANGLE TO MAIN SPAN BARS

8d DETAIL - 4

CIRCULAR OPENINGS



TYPICAL ADDITIONAL REINFORCEMENT AROUND OPENINGS IN SOLID SLABS UNLESS OTHERWISE SHOWN ON DRAWINGS

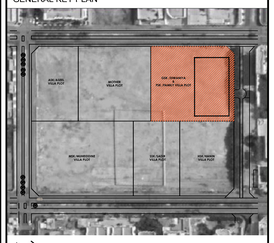
NOTE:
ALL REPLACEMENT AND DIAGONAL BARS SHOULD EXTEND AN ANCHORAGE LENGTH BEYOND THE EDGE OF THE HOLE.

08 TRIMMING OF HOLES IN SLAB (U.N.O)

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

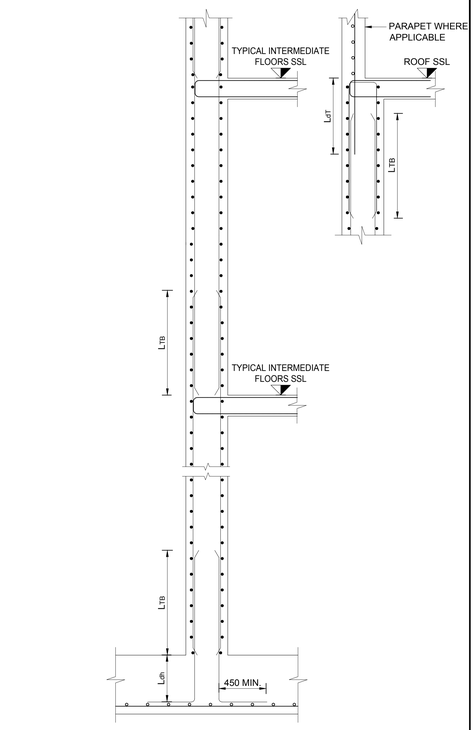
GENERAL DETAILS SHEET 1 OF 3

Structural Package

SCALE N.T.S

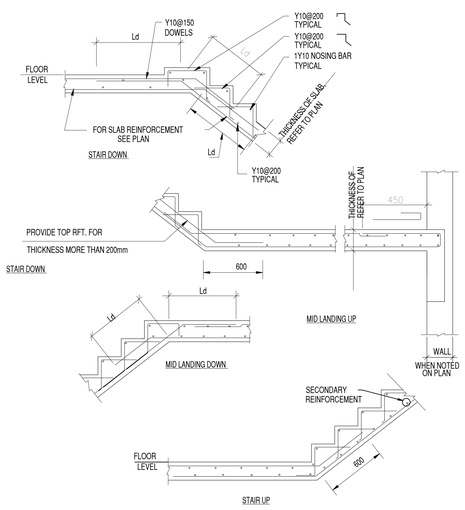
DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-00-0-0003	FC-00

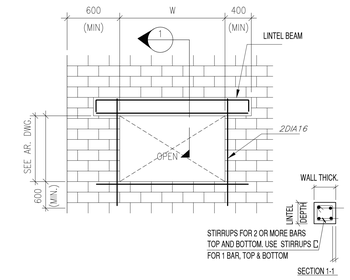


TYPICAL SECTION THROUGH SHEAR WALL

09 TYPICAL SHEAR WALL DETAILS

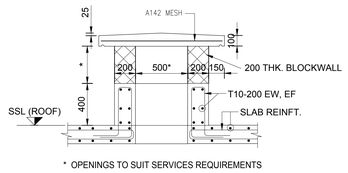


10 CAST IN SITU CONCRETE STAIR DETAILS



NOTE:
OMIT BARS FOR OPENING LESS THAN 200 VERT. & 400 HOR.

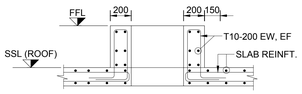
11 RECTANGULAR OPENING IN BLOCKWORK WALL U.O.N



* OPENINGS TO SUIT SERVICES REQUIREMENTS

SECTION

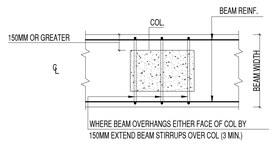
12 TYPICAL COVERED ROOF PENETRATION FOR MEP SERVICES



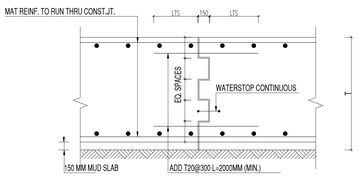
* OPENINGS TO SUIT SERVICES REQUIREMENTS

SECTION

13 TYPICAL UPSTAND DETAIL AROUND OPENING IN ROOF LEVEL

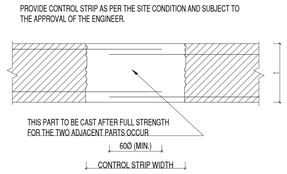


14 PLAN DETAIL AT COLUMN WHERE BEAM IS WIDER THAN COLUMN



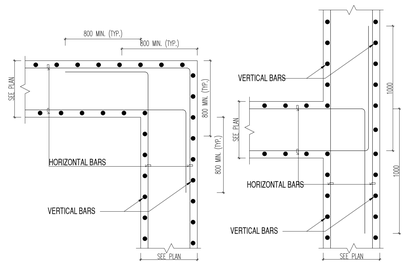
15 MAT CONSTRUCTION JOINT DETAIL

N.T.S



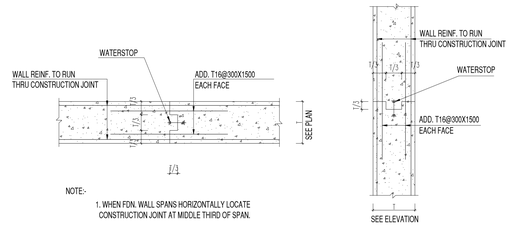
16 CONTROL STRIP DETAIL

N.T.S



17 TYP. HORIZONTAL WALLS REINFORCEMENT DETAIL

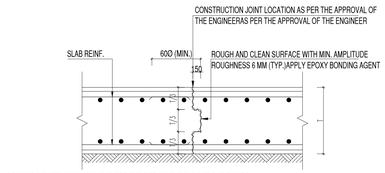
N.T.S



NOTE:-
1. WHEN FDN. WALL SPANS HORIZONTALLY LOCATE CONSTRUCTION JOINT AT MIDDLE THIRD OF SPAN.

18 TYP. VERTICAL / HORIZONTAL CONSTRUCTION JOINT DETAIL FOR WALLS

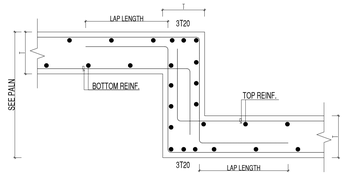
N.T.S



-PROVIDE CONSTRUCTION JOINT AS PER THE SITE CONDITIONS AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

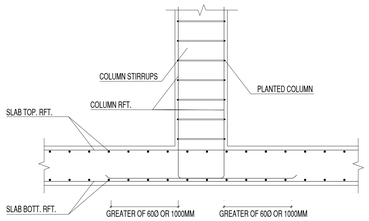
19 SLAB CONSTRUCTION JOINT DETAIL

N.T.S



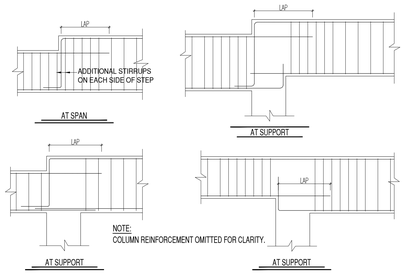
20 TYP. DETAILED SECTION BETWEEN DEFFERENT SLAB LEVEL

N.T.S



21 TYPICAL DETAIL AT PLANTED COLUMN

N.T.S



NOTE:
COLUMN REINFORCEMENT OMITTED FOR CLARITY.

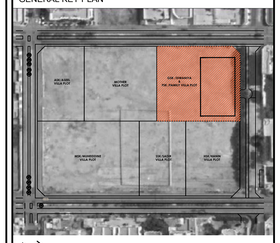
22 TYP. DETAIL OF STEP IN BEAM

N.T.S

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



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CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

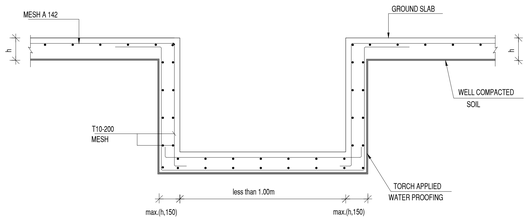
GENERAL DETAILS SHEET 2 OF 3

Structural Package

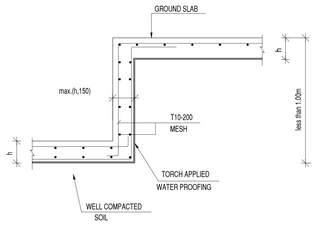
SCALE N.T.S

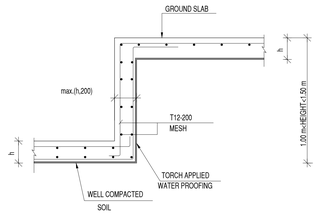
DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-00-0-0004	FC-00

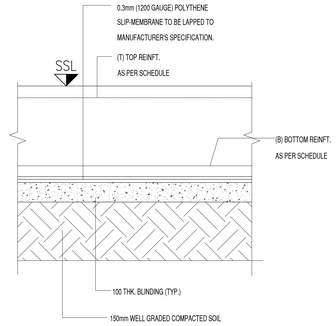


TYPICAL REINFORCEMENT DETAILS OF GROUND SLAB AT SERVICE TRENCHES

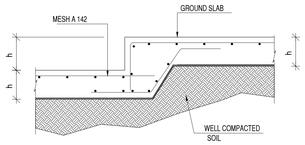




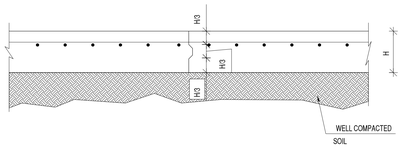
TYPICAL REINFORCEMENT DETAILS OF GROUND SLAB HAVING DIFFERENT LEVELS



TYPICAL DETAIL OF WATERPROOFING FOR SLAB ON GRADE

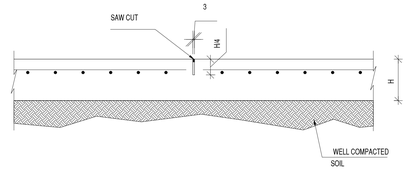


TYPICAL REINFORCEMENT DETAILS OF GROUND SLAB HAVING DROP = h

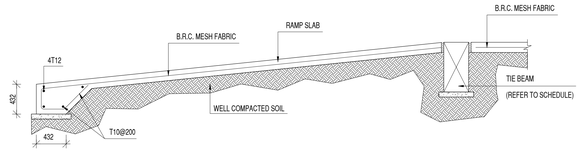


TYPICAL CONSTRUCTION JOINT

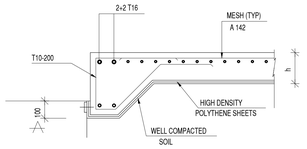
TYPICAL SLAB ON GRADE JOINTS
DAMP-PROOFING IS NOT SHOWN



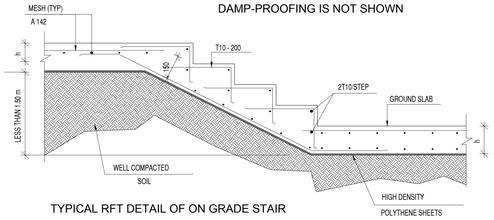
SAW CUT CONTRACTION JOINT
- CONTRACTION JOINTS SPACING SHALL NOT EXCEED 5.50 m IN BOTH DIRECTIONS



TYPICAL RAMP SECTION

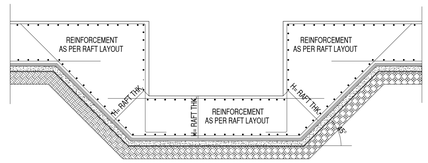


TYPICAL GROUND SLAB SECTION AT EDGES AND ENTRANCES

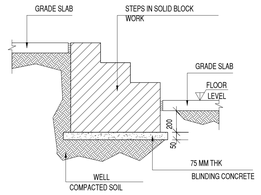


TYPICAL RFT DETAIL OF ON GRADE STAIR

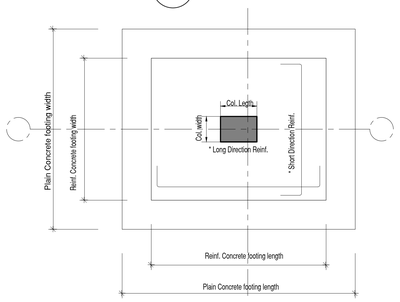
SLAB ON GRADE DETAILS

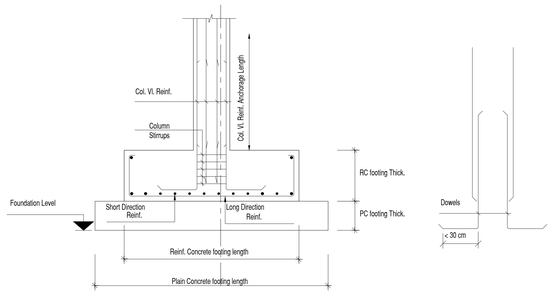


TYPICAL SUMP PIT DETAIL

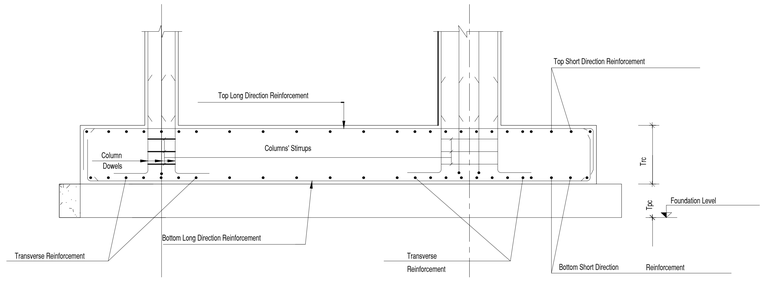


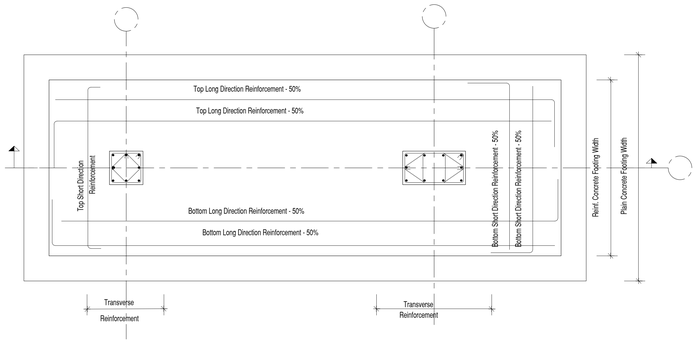
SECTION THROUGH STEPS





TYPICAL DETAIL FOR ISOLATED FOOTING



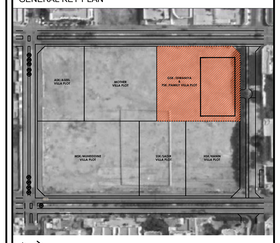


TYPICAL DETAIL FOR COMBINED FOOTING

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:
DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:
Al Morjan Compound Family Villa
JEDDAH, KSA

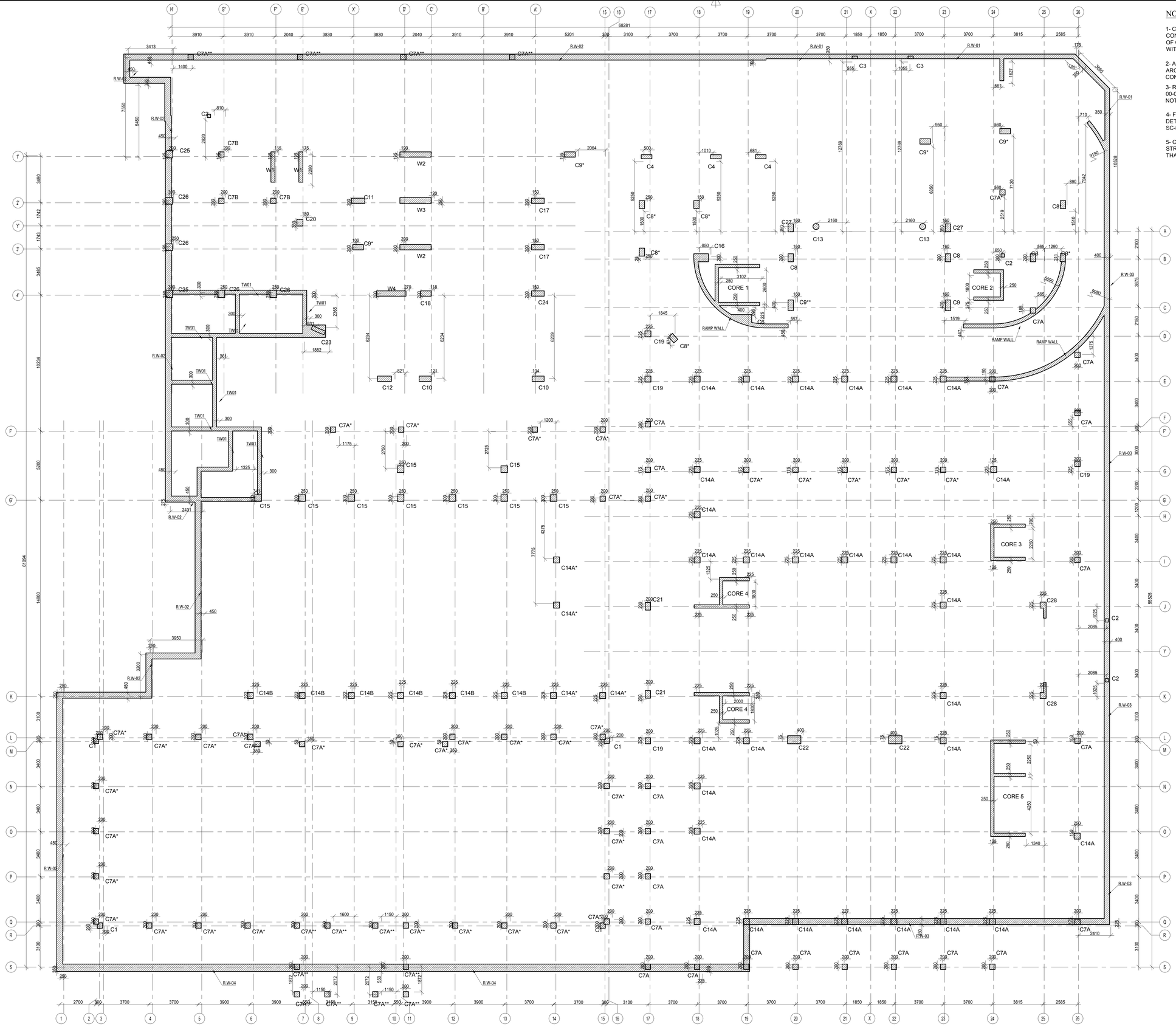
SHEET CONTENTS:
GENERAL DETAILS SHEET 3 OF 3

Structural Package

SCALE: N.T.S

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st. ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-00-0-0005	FC-00



AXSES AND COLUMNS AT BASMENT FLOOR LEVEL
1:100

NOTES:

1- COLUMNS HAVE BEEN DESIGNED CONSIDERING THAT THE BUILDING CONSISTS OF GROUND ,FIRST AND ROOF FLOORS ONLY WITHOUT ANY EXTENSIONS.

2- ALL DIMENSIONS TO BE COORDINATED WITH ARCHITECTURE DRAWINGS PRIOR TO CONSTRUCTION.

3- REFER TO DRAWINGS SC-MV-(00-0-0002, 00-0-0003, 00-0-0004, 00-0-0005) FOR GENERAL NOTES AND GENERAL DETAILS.

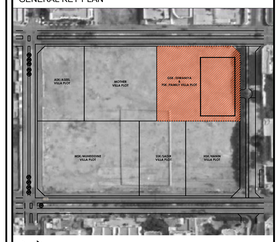
4- FOR COLUMNS & WALLS SCHEDULES & DETAILS REFER TO DRAWINGS FROM SC-MV-02-0-0001 TO SC-MV-02-0-0004.

5- CHARACTERISTIC CONCRETE CYLINDRICAL STRENGTH FOR R/C COLUMNS IS NOT LESS THAN 40 MPA AFTER 28 DAYS.

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
3.CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

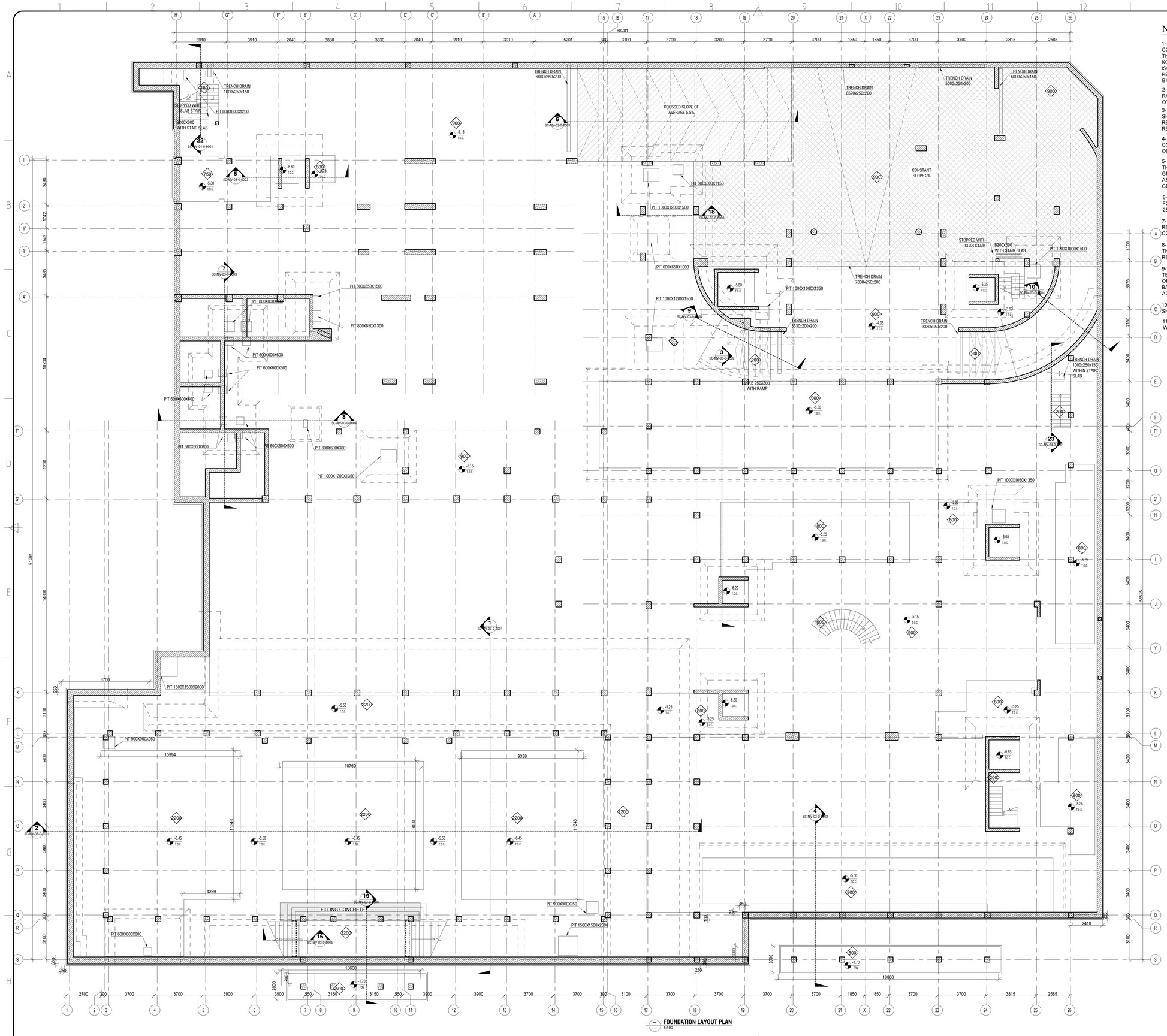
AXES AND COLUMNS AT BASEMENT FLOOR LEVEL

Structural Package

SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-0-0001	FC-00



FOUNDATION LAYOUT PLAN
1:100

NOTES:

1- FOUNDATIONS ARE DESIGNED TO SUPPORT BUILDING CONSISTS OF GROUND ,FIRST AND ROOF FLOORS ONLY. THE NET ALLOWABLE DESIGN BEARING CAPACITY IS 1.60 KG/CM2 FOR RAFT FOUNDATION & 1.40 KG/CM^2 FOR ISOLATED FOUNDATION ABOVE NATURAL SOIL OR REPLACEMENT SOIL. THESE VALUES MUST BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.

2- THE FOUNDATION LEVEL (BOTTOM OF R.C) IS (-6.05) FOR RAFT AND (-1.70) FOR ISOLATED FOOTINGS UNLESS OTHERWISE NOTED ON PLAN.

3- THE FOUNDATIONS CONSTRUCTION RECOMMENDATIONS SHALL BE TAKEN FROM THE GEOTECHNICAL INVESTIGATION REPORT (YAO-S-2201171/1) AT DATE 17/01/2022 AND ADDENDUM RECOMMENDATIONS DATE 12/03/2022 & 01/06/2022.

4- ISOLATED FOOTINGS ARE CONCENTRIC WITH THEIR CORRESPONDING COLUMN NECKS, UNLESS OTHERWISE NOTED ON PLAN.

5- BACK FILLING BENEATH FOOTING, IF NEEDED SO AS TO REACH THE FOUNDATION LEVEL, SHALL BE CARRIED OUT USING WELL GRADED, CLEAN SILICEOUS SAND AND TO BE WELL COMPACTED AS PER SPECIFICATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT.

6- CHARACTERISTIC CONCRETE CYLINDRICAL STRENGTH FOR R/C FOUNDATION AND COLUMN NECKS IS NOT LESS THAN 40 MPA AFTER 28 DAYS, AND FOR P/C NOT LESS THAN 20 MPA AFTER 28 DAYS.

7- ALL RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT RELATED TO CEMENT TYPE AND CEMENT CONTENT MUST BE CONSIDERED BY THE CONTRACTOR.

8- DURING EXCAVATION IF THERE IS ANY SOIL SAMPLES DIFFERENT THAN THAT INCLUDED IN THE SOIL REPORT ,THE CONTRACTOR SHALL RETURN TO THE CONSULTANT PROIR TO CONSTRUCTION.

9- THE CONTRACTOR IS TO PROPOSE THE SUITABLE TEMPORARY SHORING SYSTEM TO MAKE SURE THE SAFETY OF EXISTING ROADS AND BUILDINGS AROUND THE LIMIT OF BASEMENT DURING EXCAVATION AND CONSTRUCTION ACTIVITIES OF BASEMENT CONSTRUCTION AS WELL.

10- ACTIVITIES OF SHORING WILL BE RESPONSIBILITY OF SHORING CONTRACTOR.

11- AS PER GEOTECHNICAL REPORT, THE DESIGN GROUND WATER TABLE WILL BE AT LEVEL -3.80 .

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.

2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

3.CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.

4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN

ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

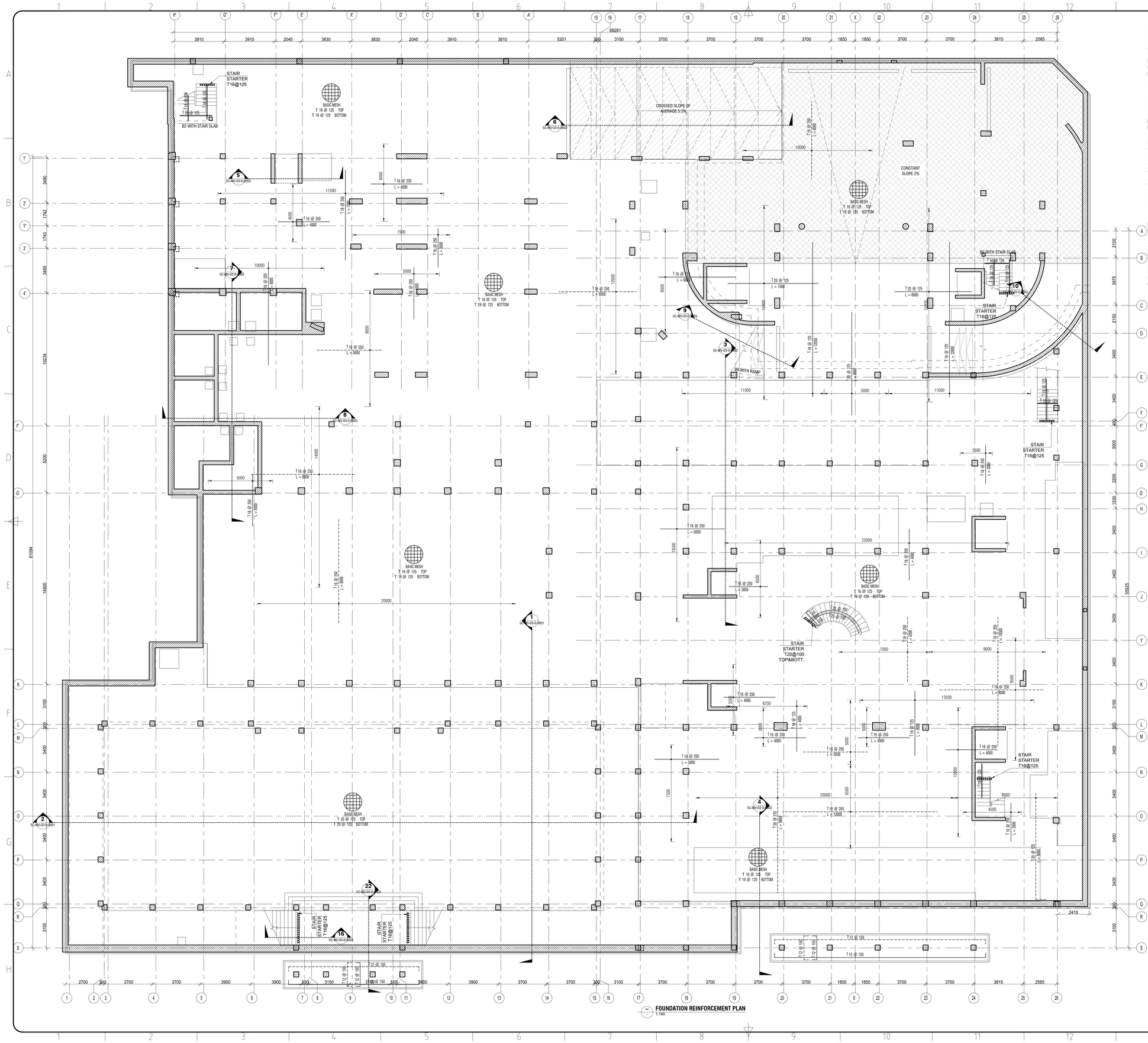
FOUNDATION LAYOUT PLAN

Structural Package

SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-0-0002	FC-00



FOUNDATION REINFORCEMENT PLAN
1:100

NOTES:

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6- CHARACTERISTIC CONCRETE CYLINDRICAL STRENGTH FOR R/C FOUNDATION AND COLUMN NECKS IS NOT LESS THAN 40 MPA AFTER 28 DAYS, AND FOR P/C NOT LESS THAN 20 MPA AFTER 28 DAYS.

7- ALL RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT RELATED TO CEMENT TYPE AND CEMENT CONTENT MUST BE CONSIDERED BY THE CONTRACTOR.

8- DURING EXCAVATION IF THERE IS ANY SOIL SAMPLES DIFFERENT THAN THAT INCLUDED IN THE SOIL REPORT ,THE CONTRACTOR SHALL RETURN TO THE CONSULTANT PROIR TO CONSTRUCTION.

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GENERAL NOTES:

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GENERAL KEY PLAN

ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

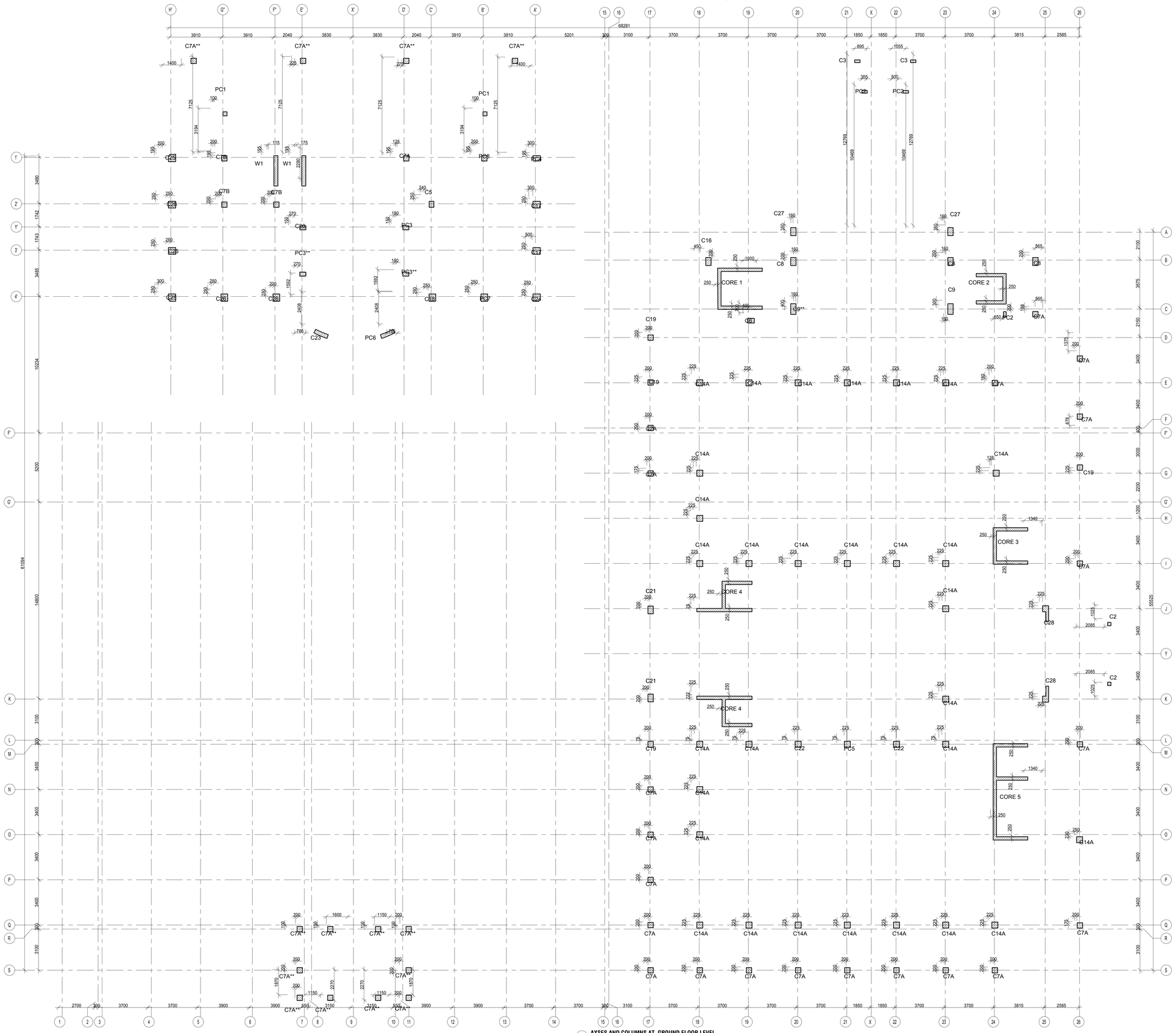
FOUNDATION REINFORCEMENT PLAN

Structural Package

SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-0-0003	FC-00



AXSES AND COLUMNS AT GROUND FLOOR LEVEL
1:100

NOTES:

1- COLUMNS HAVE BEEN DESIGNED CONSIDERING THAT THE BUILDING CONSISTS OF GROUND ,FIRST AND ROOF FLOORS ONLY WITHOUT ANY EXTENSIONS.

2- ALL DIMENSIONS TO BE COORDINATED WITH ARCHITECTURE DRAWINGS PRIOR TO CONSTRUCTION.

3- REFER TO DRAWINGS SC-MV-(00-0-0002, 00-0-0003, 00-0-0004, 00-0-0005) FOR GENERAL NOTES AND GENERAL DETAILS.

4- FOR COLUMNS & WALLS SCHEDULES & DETAILS REFER TO DRAWINGS FROM SC-MV-02-0-0001 TO SC-MV-02-0-0004.

5- CHARACTERISTIC CONCRETE CYLINDRICAL STRENGTH FOR R/C COLUMNS IS NOT LESS THAN 40 MPA AFTER 28 DAYS.

GENERAL NOTES:

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4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN

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FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

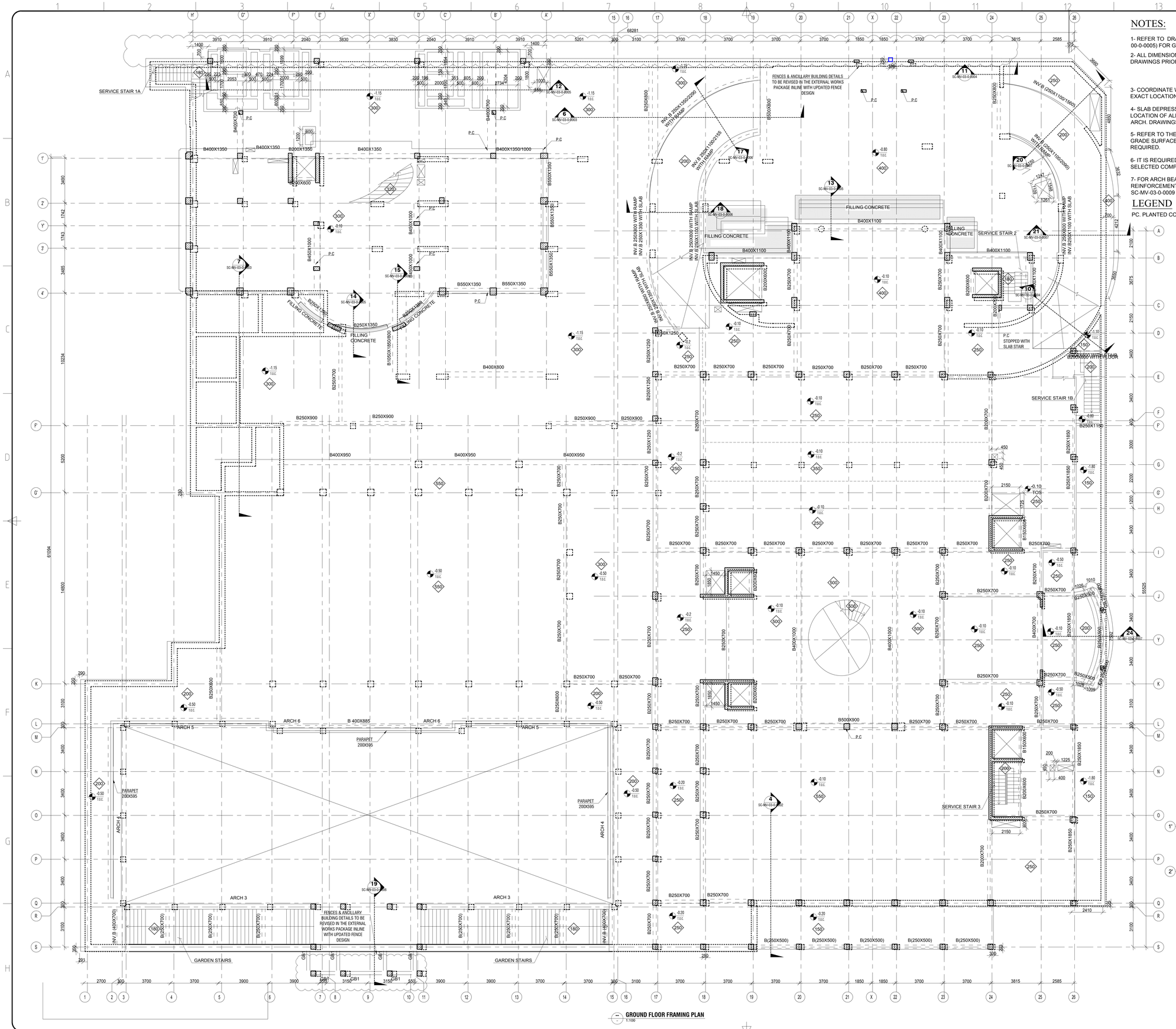
AXES AND COLUMNS AT GROUND FLOOR LEVEL

Structural Package

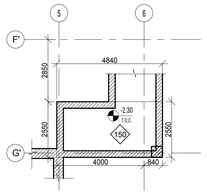
SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

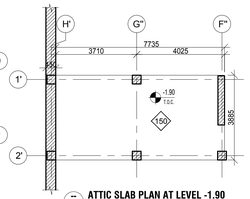
1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-1-0001	FC-00



GROUND FLOOR FRAMING PLAN
1:100



ATTIC SLAB PLAN AT LEVEL -2.30
1:100



ATTIC SLAB PLAN AT LEVEL -1.90
1:100

NOTES:

1- REFER TO DRAWINGS SC-MV-(00-0-0002, 00-0-0003, 00-0-0004, 00-0-0005) FOR GENERAL NOTES AND GENERAL DETAILS.

2- ALL DIMENSIONS TO BE COORDINATED WITH ARCH. DRAWINGS PRIOR TO CONSTRUCTION.

3- COORDINATE WITH ARCH. AND PLUMBING DWGs FOR SIZE AND EXACT LOCATIONS OF ALL FLOOR DRAINS AND SUMP PITS.

4- SLAB DEPRESSION ARE SHOWN FOR REFERENCE ONLY EXACT LOCATION OF ALL SLAB DEPRESSIONS MUST BE COORDINATED WITH ARCH. DRAWINGS.

5- REFER TO THE SPECIFICATION AND ARCH. DRAWINGS FOR SLAB ON GRADE SURFACE FINISHES AND CHEMICAL HARDENERS WHERE REQUIRED.

6- IT IS REQUIRED TO CONSTRUCT THE S.O.G. ON REMOLDED SELECTED COMPACTED FILL WITH THICKNESS NOT LESS THAN 300mm.

7- FOR ARCH BEAMS CONCRETE DIMENSIONS AND REINFORCEMENT DETAILS REFER TO DRAWING SC-MV-03-0-0009

LEGEND

PC. PLANTED COLUMN

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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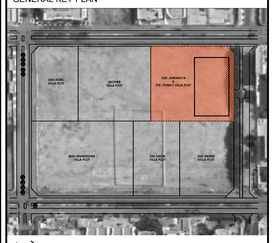
GENERAL KEY PLAN



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REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

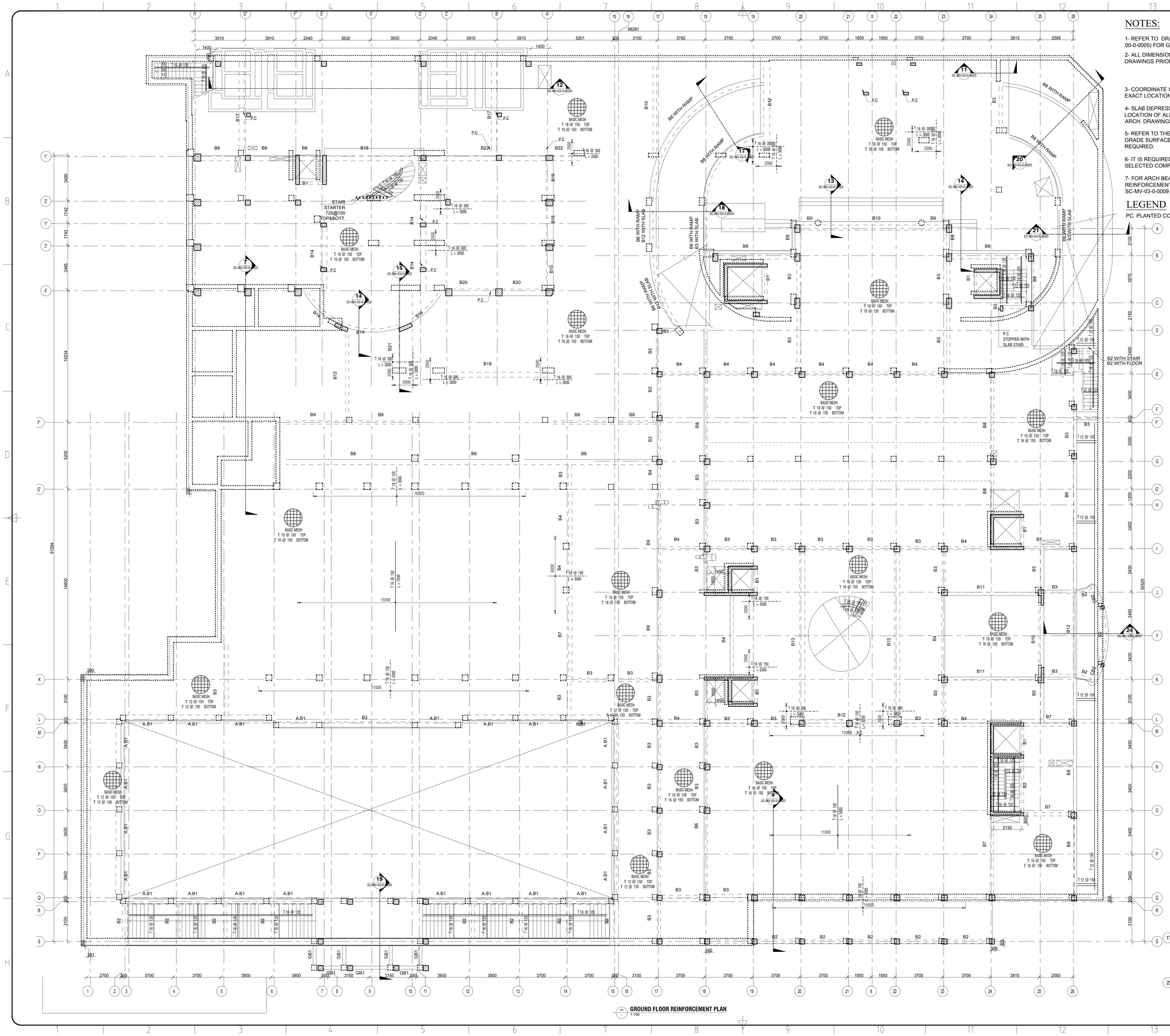
GROUND FLOOR FRAMING PLAN

Structural Package

SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-1-0002	FC-00



NOTES:

1- REFER TO DRAWINGS SC-MV-(00-0-0002, 00-0-0003, 00-0-0004, 00-0-0005) FOR GENERAL NOTES AND GENERAL DETAILS.

2- ALL DIMENSIONS TO BE COORDINATED WITH ARCH. DRAWINGS PRIOR TO CONSTRUCTION.

3- COORDINATE WITH ARCH. AND PLUMBING DWGs FOR SIZE AND EXACT LOCATIONS OF ALL FLOOR DRAINS AND SUMP PITS.

4- SLAB DEPRESSION ARE SHOWN FOR REFERENCE ONLY EXACT LOCATION OF ALL SLAB DEPRESSIONS MUST BE COORDINATED WITH ARCH. DRAWINGS.

5- REFER TO THE SPECIFICATION AND ARCH. DRAWINGS FOR SLAB ON GRADE SURFACE FINISHES AND CHEMICAL HARDENERS WHERE REQUIRED.

6- IT IS REQUIRED TO CONSTRUCT THE S.O.G. ON REMOLDED SELECTED COMPACTED FILL WITH THICKNESS NOT LESS THAN 300mm.

7- FOR ARCH BEAMS CONCRETE DIMENSIONS AND REINFORCEMENT DETAILS REFER TO DRAWING SC-MV-03-0-0009

LEGEND

PC. PLANTED COLUMN

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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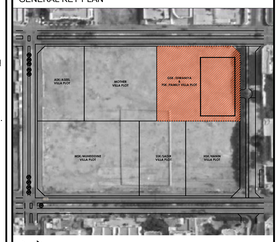
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN



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REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

GROUND FLOOR REINFORCEMENT PLAN

Structural Package

SCALE 1:100

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-01-1-0003	FC-00

NOTES:

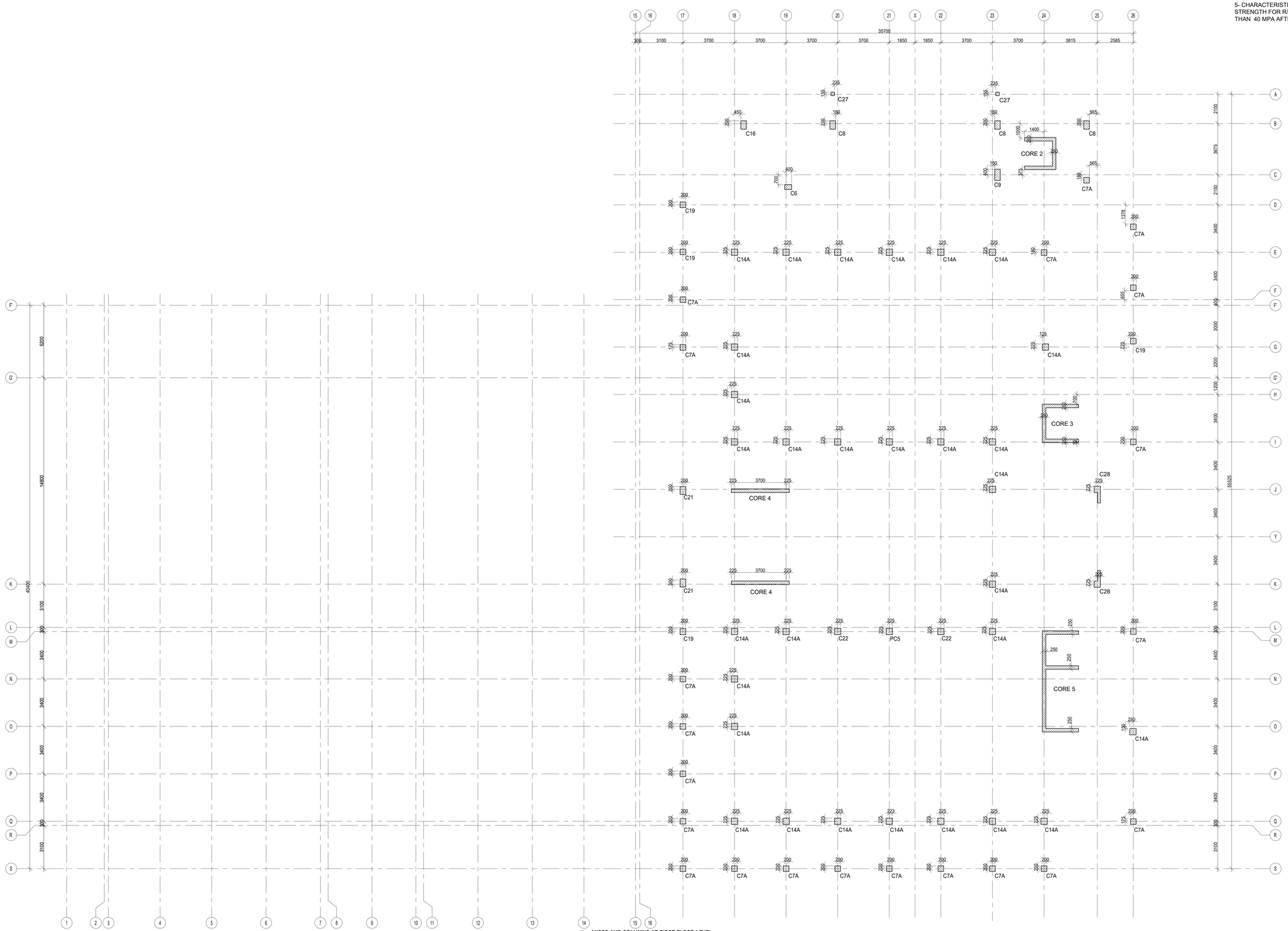
1- COLUMNS HAVE BEEN DESIGNED CONSIDERING THAT THE BUILDING CONSISTS OF GROUND ,FIRST AND ROOF FLOORS ONLY WITHOUT ANY EXTENSIONS.

2- ALL DIMENSIONS TO BE COORDINATED WITH ARCHITECTURE DRAWINGS PRIOR TO CONSTRUCTION.

3- REFER TO DRAWINGS SC-MV-(00-0-0002, 00-0-0003, 00-0-0004, 00-0-0005) FOR GENERAL NOTES AND GENERAL DETAILS.

4- FOR COLUMNS & WALLS SCHEDULES & DETAILS REFER TO DRAWINGS FROM SC-MV-02-0-0001 TO SC-MV-02-0-0004.

5- CHARACTERISTIC CONCRETE CYLINDRICAL STRENGTH FOR R/C COLUMNS IS NOT LESS THAN 40 MPA AFTER 28 DAYS.



AXSES AND COLUMNS AT FIRST FLOOR LEVEL
1:100

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GENERAL KEY PLAN

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Al Morjan Compound Family Villa

JEDDAH, KSA

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AXES AND COLUMNS AT FIRST FLOOR LEVEL

Structural Package

SCALE 1:100

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H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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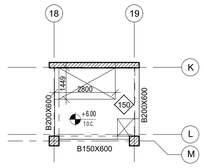
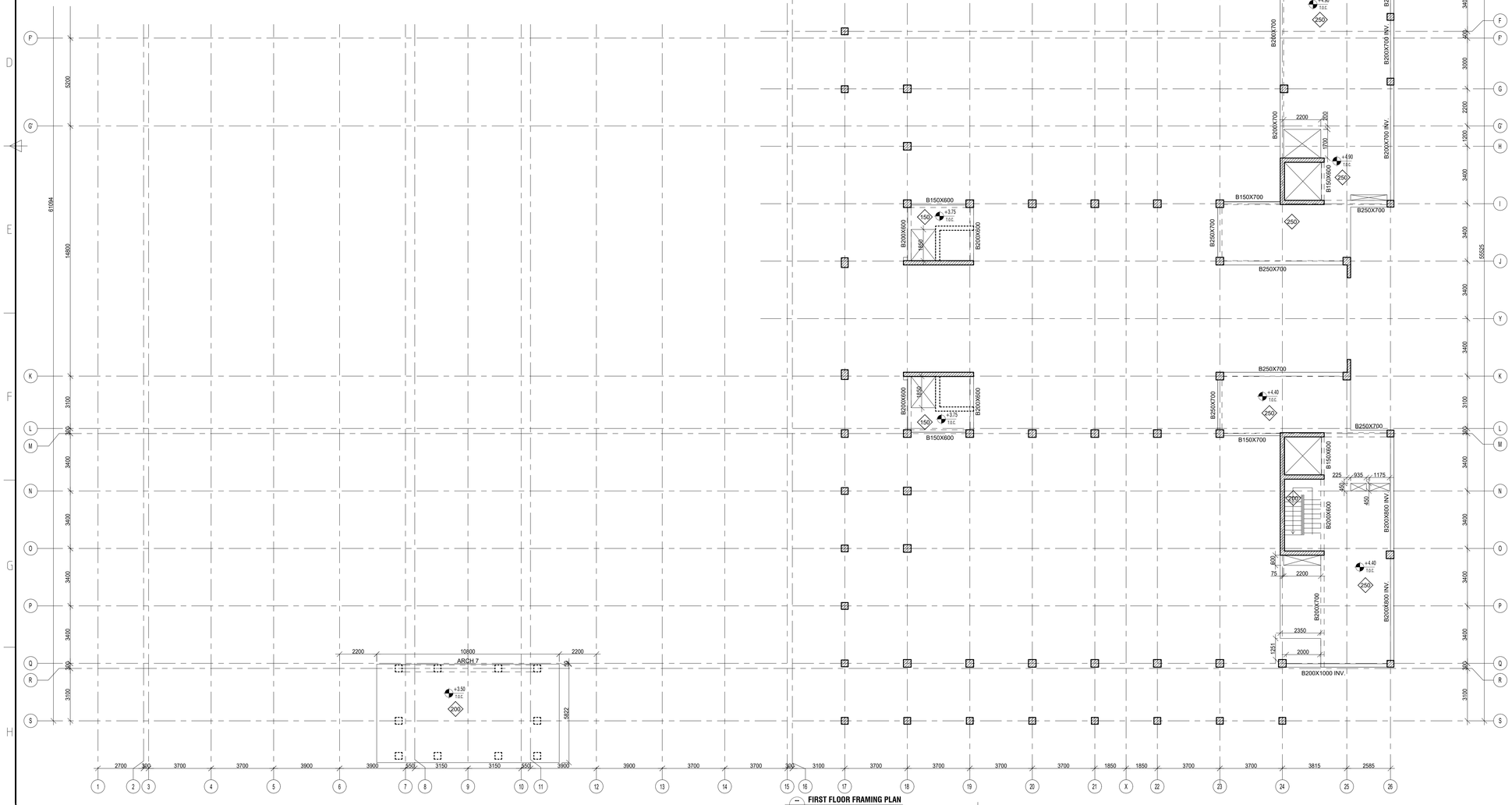


ATTIC SLAB PLAN AT LEVEL +6.00
1:100



FIRST FLOOR FRAMING PLAN
1:100

NOTES:

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Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

FIRST FLOOR FRAMING PLAN

Structural Package

SCALE 1:100

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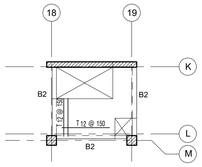
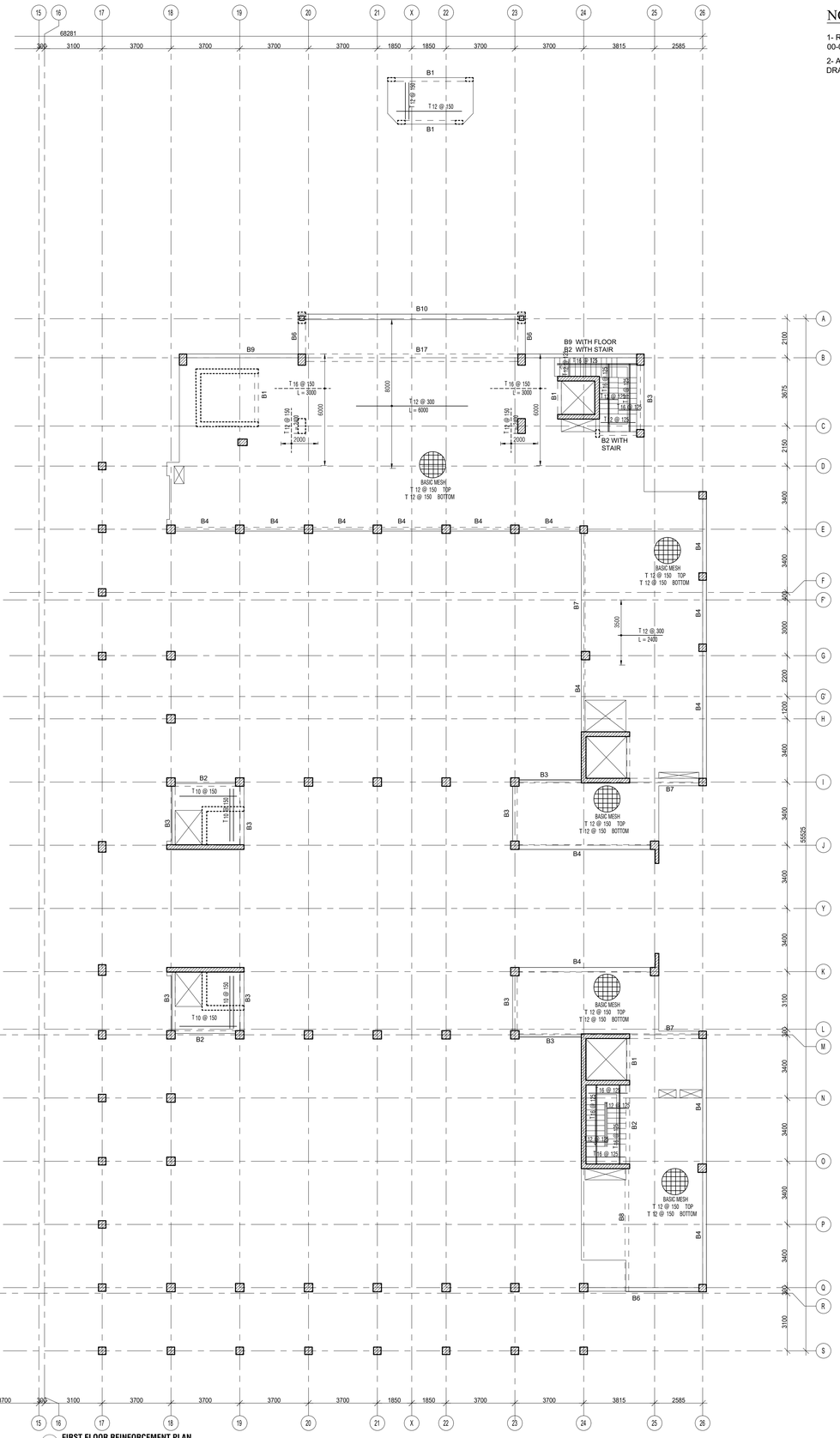


ATTIC SLAB PLAN AT LEVEL +6.00
1:100



FIRST FLOOR REINFORCEMENT PLAN
1:100

NOTES:

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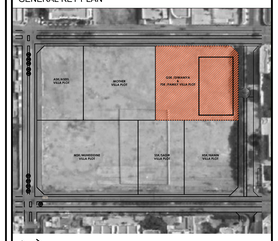
GENERAL KEY PLAN



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FIRST FLOOR REINFORCEMENT PLAN

Structural Package

SCALE 1:100

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1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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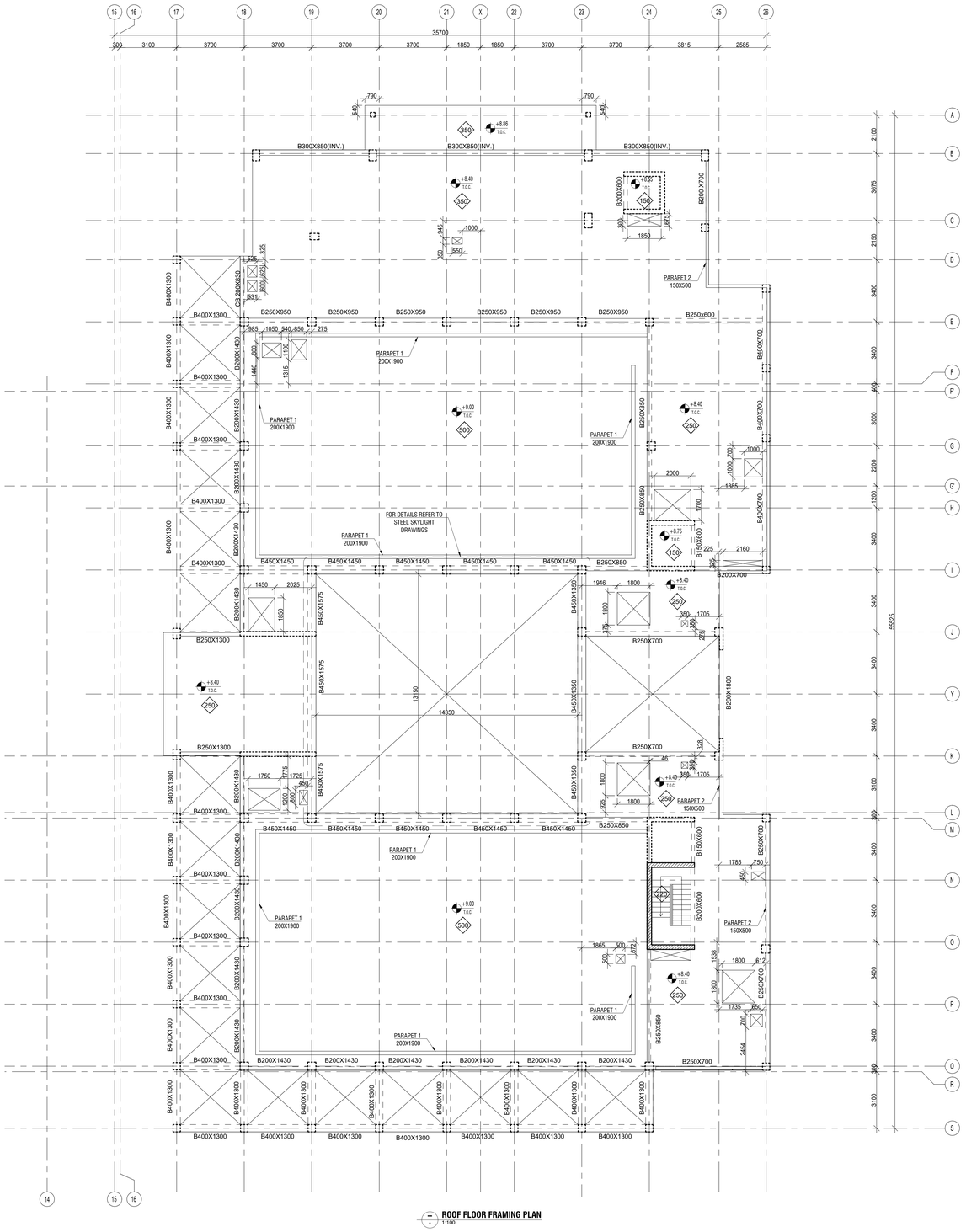

ROOF FLOOR FRAMING PLAN
1:100

GENERAL NOTES:

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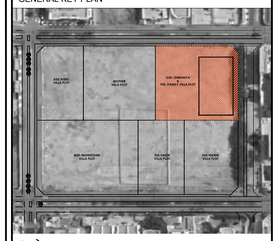

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SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

ROOF FLOOR FRAMING PLAN

Structural Package

SCALE 1:100

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H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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NOTES:

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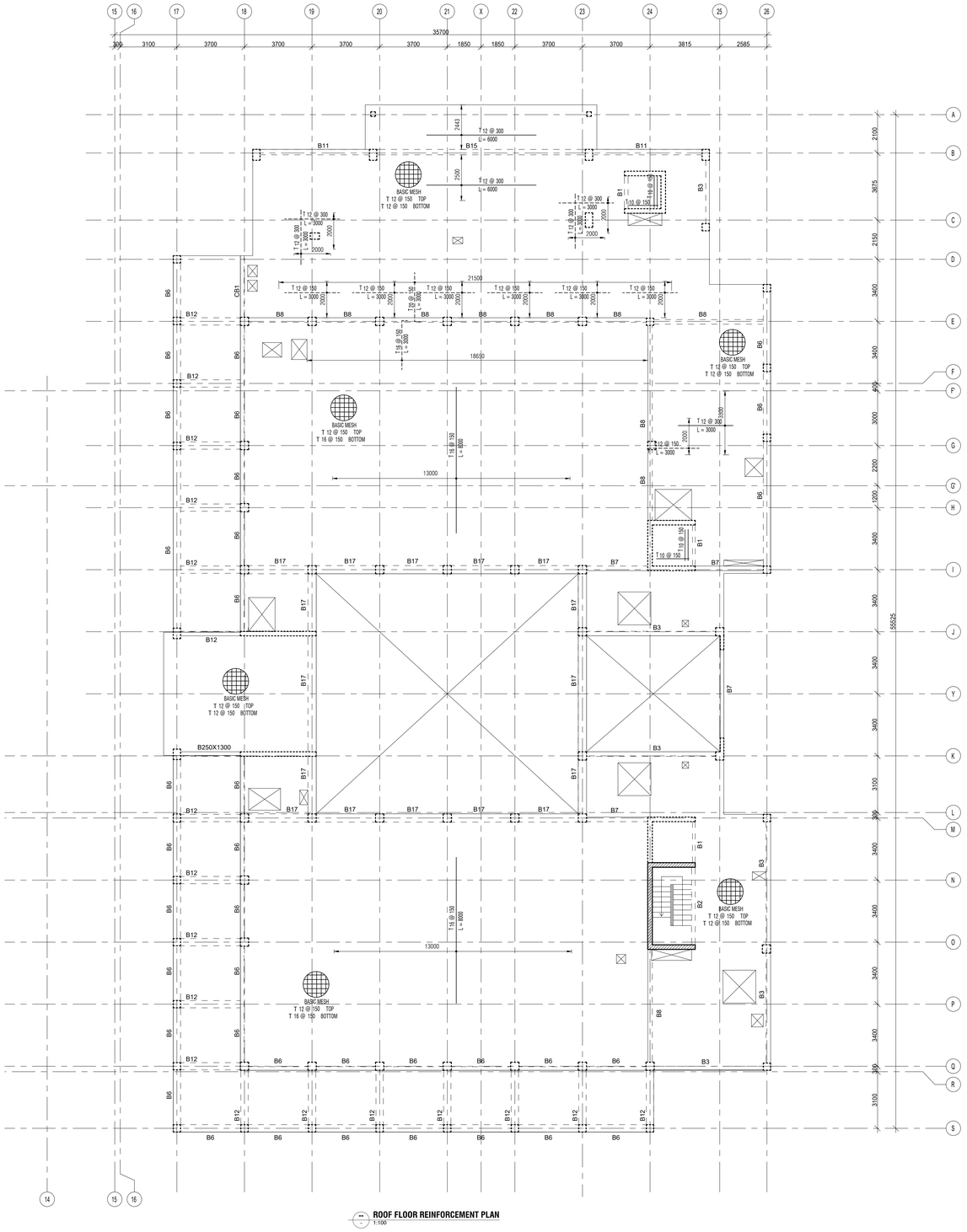

ROOF FLOOR REINFORCEMENT PLAN
1:100

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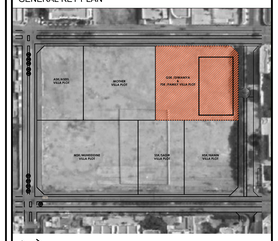
GENERAL KEY PLAN



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PROJECT:

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JEDDAH, KSA

SHEET CONTENTS:

ROOF FLOOR REINFORCEMENT PLAN

Structural Package

SCALE 1:100

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1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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BUILDING COLUMNS SCHEDULE

COLUMNS TYPES	BASEMENT FLOOR	GROUND FLOOR	FIRST FLOOR	REMARKS
C1	T10@150; 110, 110, 400, 400; 12T16	—	—	
C2	T10@150; 250, 250; 8T12	—	—	C2 STOPPED AT STAIR LANDING SLAB
C3	T10@150; 400, 200; 10T12	—	—	C3* STOPPED AT GROUND FLOOR LEVEL C3** STOPPED AT FIRST FLOOR LEVEL
C4	T10@150; 800, 300; 18T16	—	—	
C5	T10@150; 450, 350; 16T20	T10@150; 450, 350; 16T20	T10@150; 450, 350; 16T20	
C6	T10@150; 800, 350; 16T20	T10@150; 500, 350; 16T16	T10@150; 500, 350; 16T16	
C7A	T10@150; 400, 400; 12T16	T10@150; 400, 400; 12T16	T10@150; 400, 400; 12T16	C7A* STOPPED AT GROUND FLOOR LEVEL C7A** STOPPED AT FIRST FLOOR LEVEL
C7B	T10@150; 400, 400; 20T20	T10@150; 400, 400; 20T20	T10@150; 400, 400; 20T20	C7B* STOPPED AT GROUND FLOOR LEVEL C7B** STOPPED AT FIRST FLOOR LEVEL
C8	T10@150; 600, 400; 26T20	T10@150; 600, 400; 26T20	T10@150; 600, 400; 26T20	C8* STOPPED AT GROUND FLOOR LEVEL C8** STOPPED AT FIRST FLOOR LEVEL
C9	T10@150; 800, 400; 24T16	T10@150; 800, 400; 24T16	T10@150; 800, 400; 24T16	C9* STOPPED AT GROUND FLOOR LEVEL C9** STOPPED AT FIRST FLOOR LEVEL
C10	T10@150; 900, 400; 18T20	—	—	
C11	T10@150; 1000, 400; 20T20	—	—	
C12	T10@150; 1050, 400; 20T20	—	—	
C13	T10@150; Ø450; 12T20	—	—	
C14A	T10@150; 450, 450; 20T20	T10@150; 450, 450; 20T20	T10@150; 450, 450; 20T20	C14A* STOPPED AT GROUND FLOOR LEVEL
C14B	T10@150; 450, 450, 970, 970, 200, 200; 24T20; K	—	—	
C15	T10@150; 500, 500; 20T20	—	—	
C16	T10@150; 1100, 600; 22T20	T10@150; 600, 400; 26T20	T10@150; 600, 400; 26T20	

BUILDING COLUMNS SCHEDULE

COLUMNS TYPES	BASEMENT FLOOR	GROUND FLOOR	FIRST FLOOR	REMARKS
C17	T10@150; 950, 400; 18T20	T10@150; 550, 500; 20T20	T10@150; 550, 500; 20T20	
C18	T10@150; 800, 400; 24T16	T10@150; 500, 550; 20T20	T10@150; 500, 550; 20T20	
C19	T10@150; 400, 450; 12T16	T10@150; 400, 400; 12T16	T10@150; 400, 400; 12T16	
C20	T10@150; 500, 450; 16T20	T10@150; 450, 300; 14T16	T10@150; 450, 300; 14T16	
C21	T10@150; 575, 400; 16T20	T10@150; 575, 400; 16T20	T10@150; 575, 400; 16T20	
C22	T10@150; 1000, 600; 30T20	T10@150; 450, 450; 20T20	T10@150; 450, 450; 20T20	
C23	T10@150; 300, 1077; 18T20	T10@150; 300, 1077; 18T20	T10@150; 300, 1077; 18T20	
C24	T10@150; 950, 400; 18T20	T10@150; 550, 550; 20T20; 150, 150	T10@150; 550, 550; 20T20; 150, 150	
C25	T10@150; 550, 550; 20T20; 150, 150	T10@150; 550, 550; 20T20; 150, 150	T10@150; 550, 550; 20T20; 150, 150	
C26	T10@150; 550, 500; 20T20	T10@150; 550, 500; 20T20	T10@150; 550, 500; 20T20	
C27	T10@150; 600, 400; 26T20	T10@150; 600, 400; 26T20	T10@150; 250, 250; 12T14	
C28	T10@150; 1205, 450, 250, 250, 450; 20T20	T10@150; 1205, 450, 250, 250, 450; 20T20	T10@150; 1205, 450, 250, 250, 450; 20T20	
PC1	—	T10@150; 300, 300; 12T12	—	
PC2	—	T10@150; 400, 200; 10T12	—	
PC3	—	T10@150; 450, 300; 14T16	T10@150; 450, 300; 14T16	PC3** STOPPED AT FIRST FLOOR LEVEL
PC4	—	T10@150; 550, 400; 20T20	T10@150; 550, 400; 20T20	PC4** STOPPED AT FIRST FLOOR LEVEL
PC5	—	T10@150; 450, 450; 20T20	T10@150; 450, 450; 20T20	
PC6	—	T10@150; 300, 1077; 18T20	T10@150; 300, 1077; 18T20	

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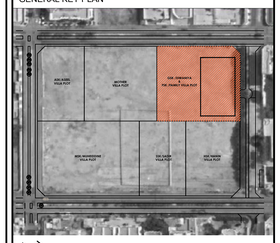

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SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SCHEDULES SHEET 1 OF 5

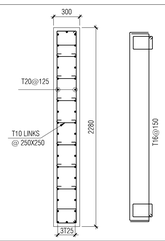
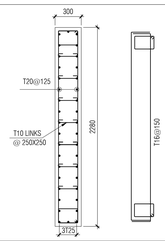
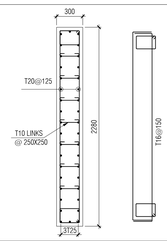
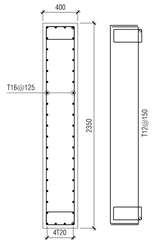
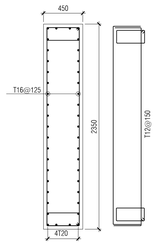
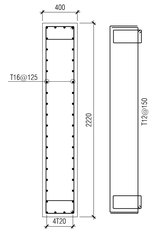
Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-02-0-0001	FC-00

BUILDING WALLS SCHEDULE (1/3)

WALLS TYPES	BASEMENT FLOOR	GROUND FLOOR	FIRST FLOOR	REMARKS
W1				
W2		—	—	
W3		—	—	
W4		—	—	

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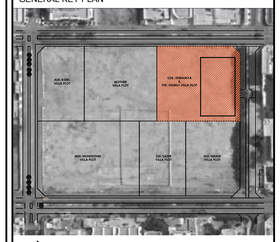

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JEDDAH, KSA

SHEET CONTENTS:

SCHEDULES SHEET 2 OF 5

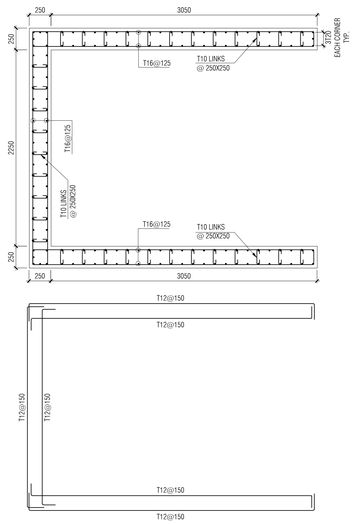
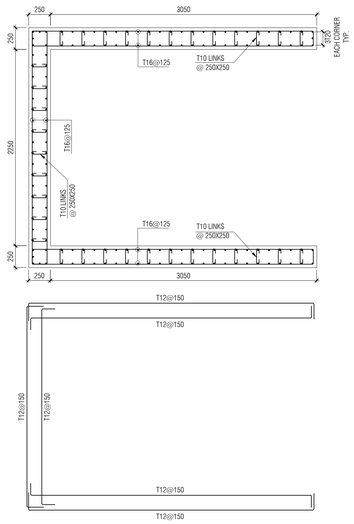
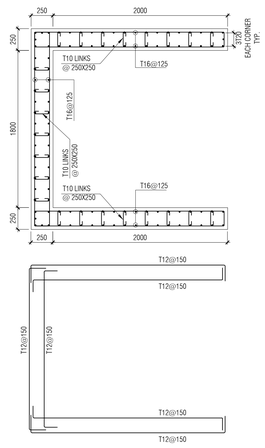
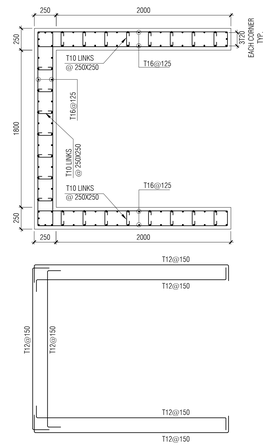
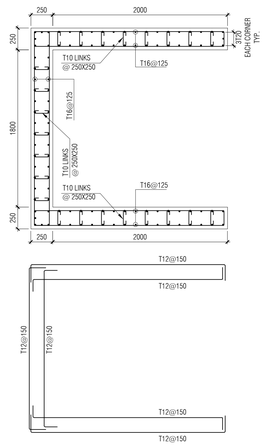
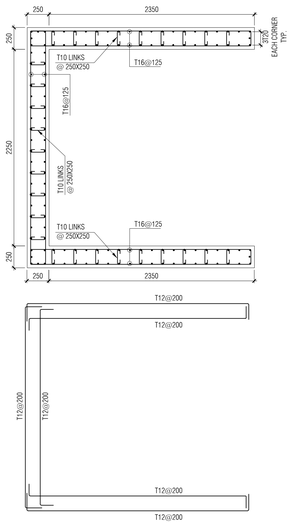
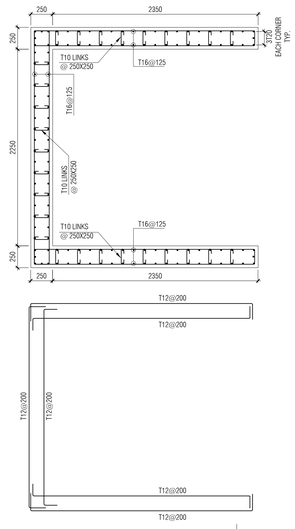
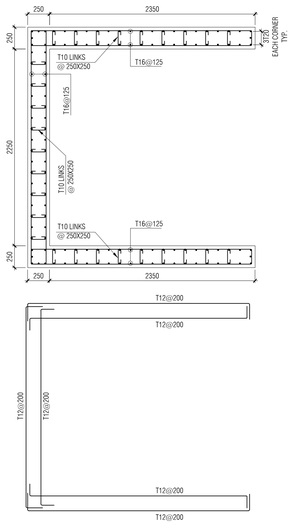
Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-02-0-0002	FC-00

BUILDING WALLS SCHEDULE (2/3)

WALLS TYPES	BASEMENT FLOOR	GROUND FLOOR	FIRST FLOOR	REMARKS
CORE-01			———	
CORE-02				
CORE-03				

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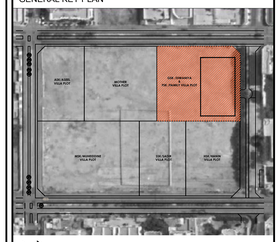
GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SCHEDULES SHEET 3 OF 5

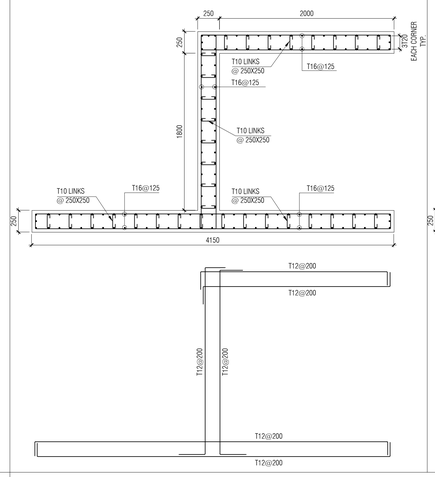
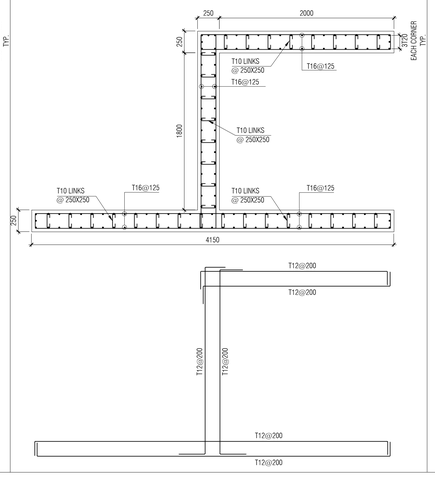
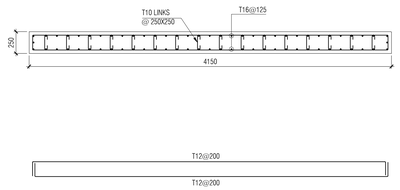
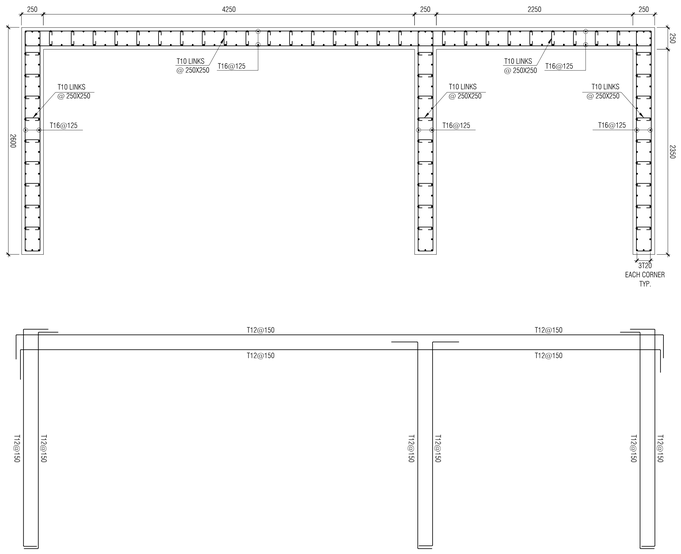
Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-02-0-0003	FC-00

BUILDING WALLS SCHEDULE (3/3)

WALLS TYPES	BASEMENT FLOOR	GROUND FLOOR	FIRST FLOOR	REMARKS
CORE-04				
CORE-05				

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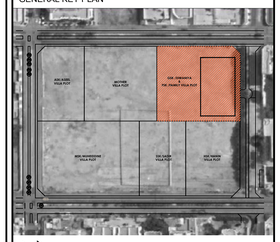
GENERAL KEY PLAN



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Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SCHEDULES SHEET 4 OF 5

Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-02-0-0004	FC-00

TYPE	BOTTOM RFT.		TOP RFT.			WEB RFT. (STRAIGHT)	STIRRUPS		REMARKS
	A	B	C	D	E	F	ZONE-A	ZONE-B	
B1	2 T 12	——	2 T 12	2 T 12	2 T 12	——	Y 8@150	Y 8@200	
B2	3 T 12	——	3 T 12	3 T 12	3 T 12	——	Y 8@150	Y 8@200	
B3	3 T 16	——	2 T 12	3 T 16	3 T 16	T 10@f 50	Y 8@150	Y 8@200	
B4	3 T 16	——	2 T 12	4 T 16	4 T 16	——	Y 8@150	Y 8@200	
B5	4 T 12	——	2 T 12	4 T 12	4 T 12	——	Y 8@150	Y 8@200	
B6	4 T 16	——	2 T 12	4 T 16	4 T 16	T 10@f 50	Y 8@150	Y 8@200	
B7	4 T 16	——	2 T 12	6 T 16	6 T 16	——	Y 8@150	Y 8@200	
B8	5 T 16	——	2 T 12	5 T 16	5 T 16	T 10@f 50	Y 8@ 150	Y 8@200	
B9	5 T 16	——	2 T 12	5 T 20	5 T 20	T 10@f 50	T 10@150	T 10@200	
B10	5 T 20	——	2 T 12	5 T 20	5 T 20	——	T 10@150	T 10@200	
B11	3 T 20	——	4 T 12	5 T 20	5 T 20	——	Y 8@150	Y 8@200	
B12	6 T 20	——	4 T 12	6 T 20	6 T 20	T 10@f 50	Y 8@150	Y 8@200	
B13	6 T 20	——	4 T 12	8 T 20	8 T 20	——	Y 8@150	Y 8@200	
B14	4 T 25	——	4 T 12	4 T 25	4 T 25	T 10@f 50	Y 8@150	Y 8@200	
B15	4 T 25	——	4 T 12	6 T 25	6 T 25	T 10@f 50	T 10@150	T 10@200	
B16	4 T 25	——	4 T 12	8 T 25	8 T 25	T 10@f 50	Y 8@150	Y 8@200	
B17	5 T 25	——	4 T 12	5 T 25	5 T 25	T 10@f 50	Y 8@150	Y 8@200	
B18	5 T 25	——	4 T 12	6 T 25	6 T 25	——	Y 8@150	Y 8@200	
B19	6 T 25	——	4 T 12	6 T 25	6 T 25	——	Y 8@150	Y 8@200	
B20	8 T 25	——	4 T 12	6 T 25	6 T 25	T 10@f 50	Y 8@150	Y 8@200	
B21	8 T 25	——	8 T 12	8 T 16	8 T 16	T 10@f 50	Y 8@150	Y 8@200	
B22	10 T 25	——	4 T 12	16 T 25	16 T 25	T 10@f 50	T 14@ 150	T 14@ 200	
CB1	2 T 16	——	4 T 16			——	Y 8@150	Y 8@ 200	
CB2	2 T 12	——	3 T 12			——	Y 8@150	Y 8@ 200	
AB.1	3 T 16	——	2 T 12	3 T 16	3 T 16	T 10@f 50	Y 8@150	Y 8@200	
AB.2	6 T 16	——	2 T 12	6 T 16	6 T 16	T 10@f 50	Y 8@150	Y 8@200	

NOTES:-

1- NUMBER OF STIRRUP BRANCHES TAKEN AS FOLLOWS:
- a - FOR BEAM WIDTH LESS THAN 400 MM USE 2 BRANCHES STIRRUP
- b - FOR BEAM WIDTH FROM 400 MM TO 800 MM USE 4 BRANCHES STIRRUP
- c - FOR BEAM WIDTH FROM 801 MM TO 1200 MM USE 6 BRANCHES STIRRUP
- d - FOR BEAM WIDTH FROM 1201 MM TO 1500 MM USE 8 BRANCHES STIRRUP

2- IN CONTINUOUS BEAMS WHERE TOP LEFT RFT. NOTED AS (-----), THE RFT. IS TAKEN EQUAL TO THE TOP RIGHT RFT. OF THE ADJACENT SPAN.

3- WEB REINFORCEMENT SHALL BE APPLIED FOR BEAMS WITH DEPTH MORE THAN 900 MM.

GROUND BEAM SCHEDULE

TYPE	DIMENSIONS (mm)	BOTTOM BARS	TOP BARS	STIRRUP SIZE	REMARKS
GB1	250X600	4 T 16	4 T 16	T 10@f 50	

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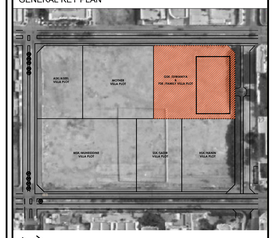

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Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

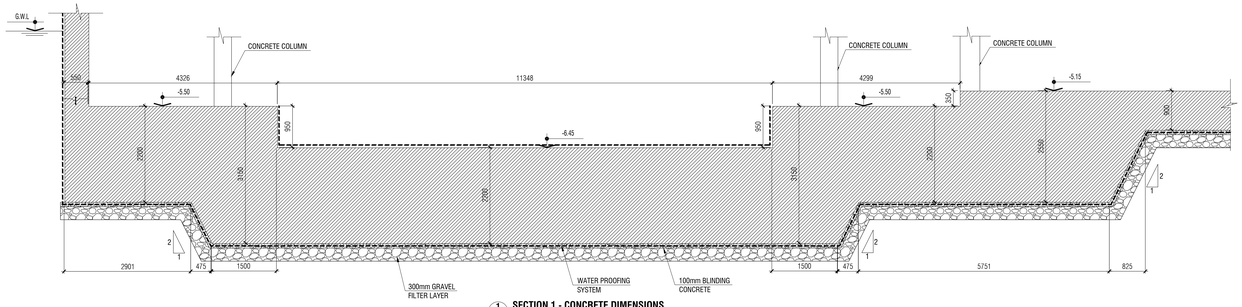
SCHEDULES SHEET 5 OF 5

Structural Package

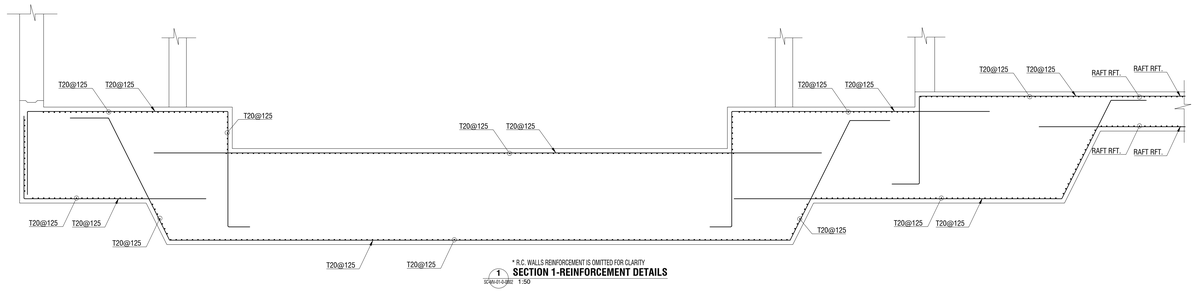
SCALE N.T.S

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-02-0-0005	FC-00



1 SECTION 1 - CONCRETE DIMENSIONS
SCALE: 1:50



* R.C. WALLS REINFORCEMENT IS OMITTED FOR CLARITY

1 SECTION 1-REINFORCEMENT DETAILS
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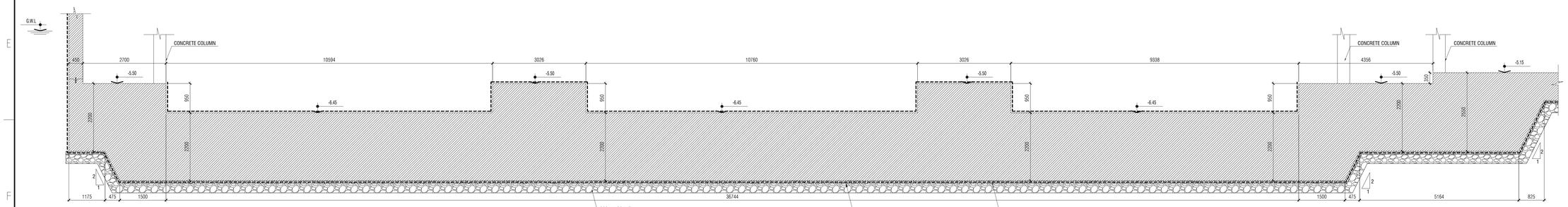

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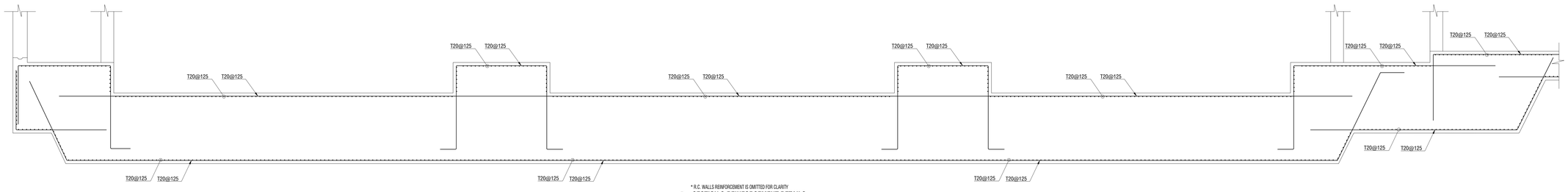

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SCALE: 1:50

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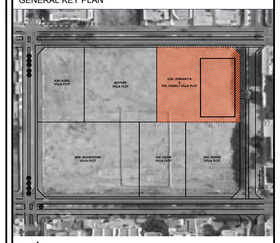

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MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
SHEET 1OF 9

Structural Package

SCALE 1:50

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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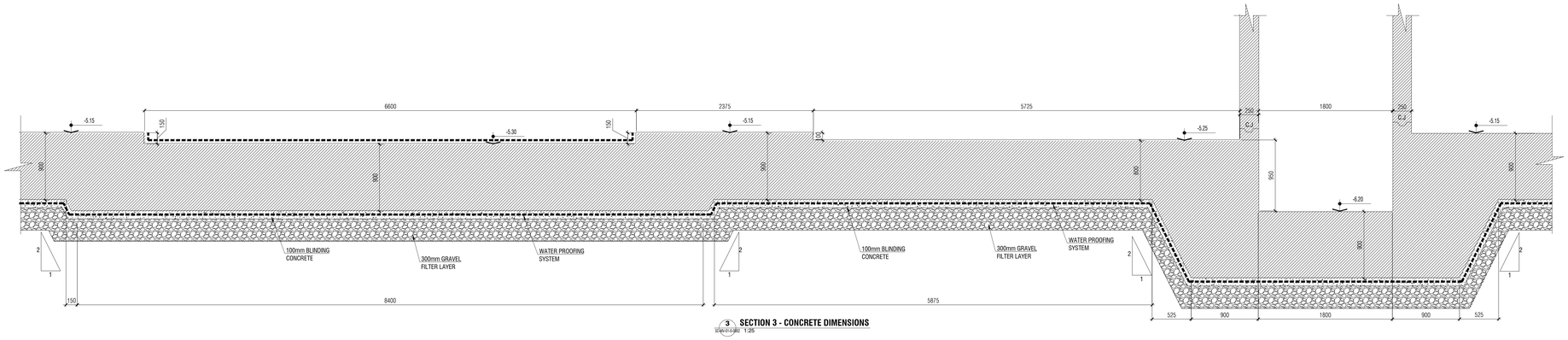
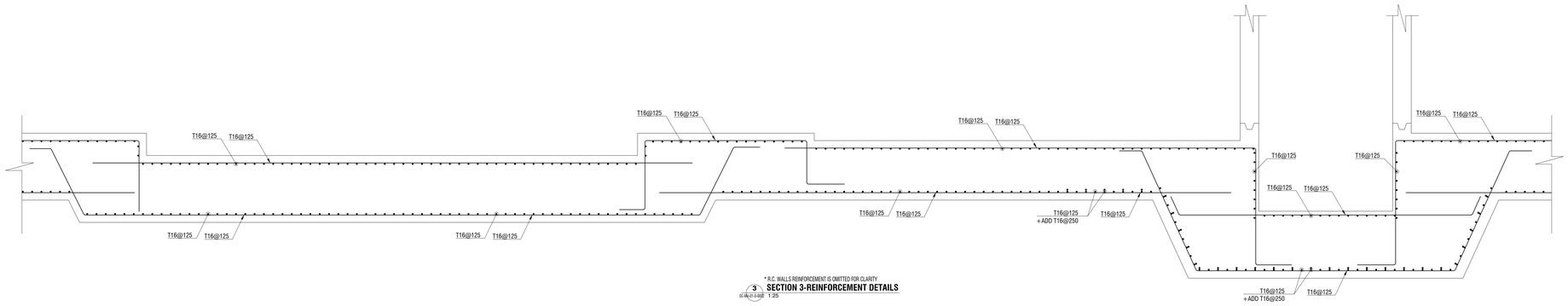
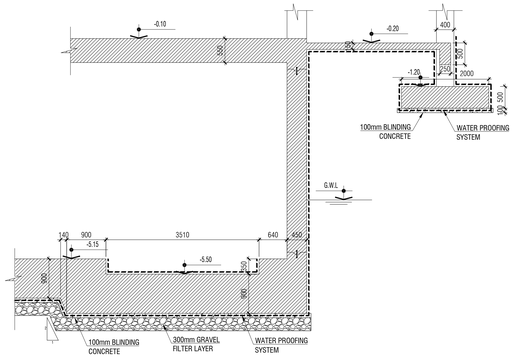


3 SECTION 3 - CONCRETE DIMENSIONS
SC-MV-01-0-0002 SC-MV-01-0-0002 1:25



* B.C WALLS REINFORCEMENT IS OMITTED FOR CLARITY
3 SECTION 3-REINFORCEMENT DETAILS
SC-MV-01-0-0002 1:25



4 SECTION 4 - CONCRETE DIMENSIONS
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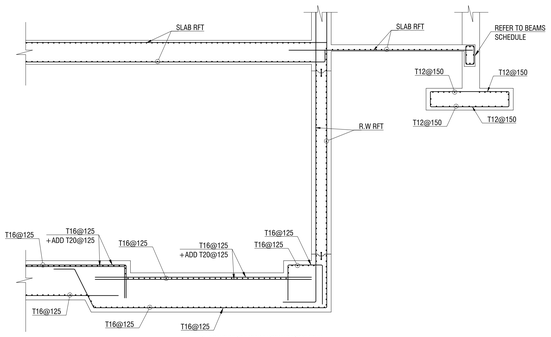

COLUMNS REINFORCEMENT IS OMITTED FOR CLARITY
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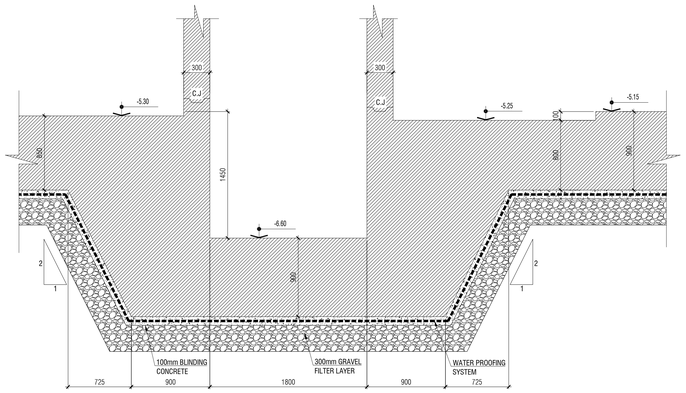

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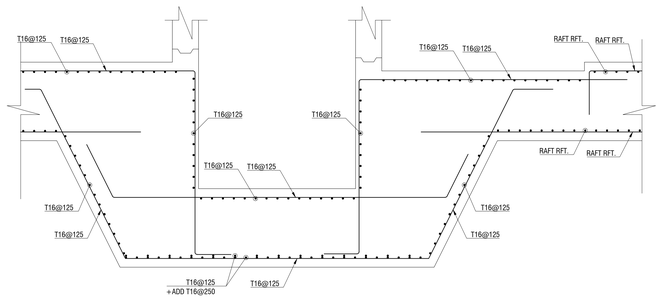

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5 SECTION 5-REINFORCEMENT DETAILS
SC-MV-01-0-0002 1:25

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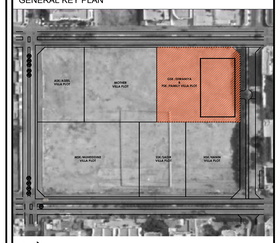

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SUB-CONSULTANT :

PROJECT:
Al Morjan Compound Family Villa
JEDDAH, KSA

SHEET CONTENTS:
SECTIONS AND DETAILS
SHEET 2 OF 9

Structural Package

SCALE: AS SHOWN

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

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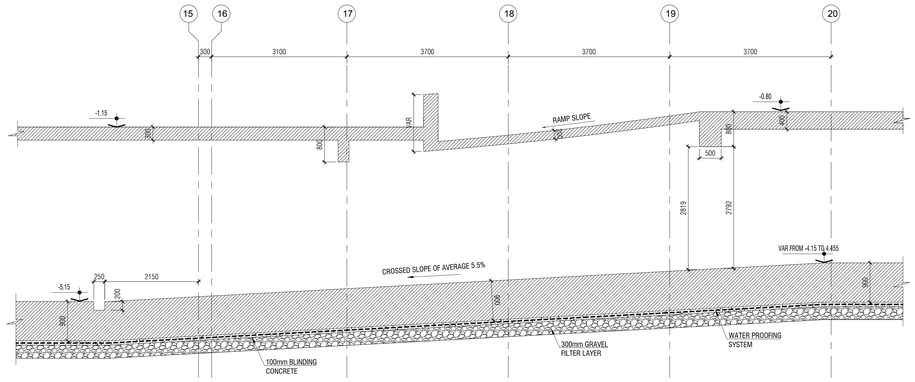

6 SECTION 6 - CONCRETE DIMENSIONS
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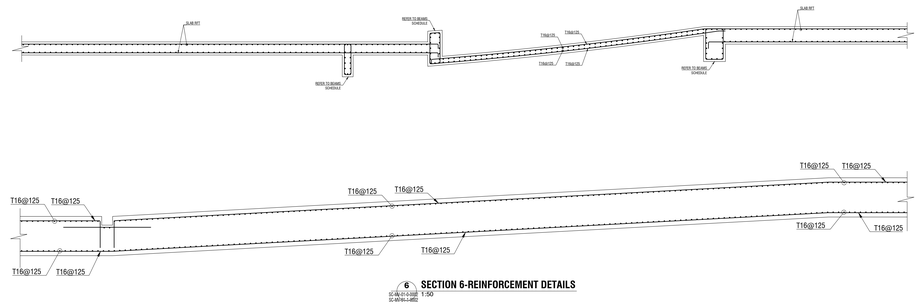

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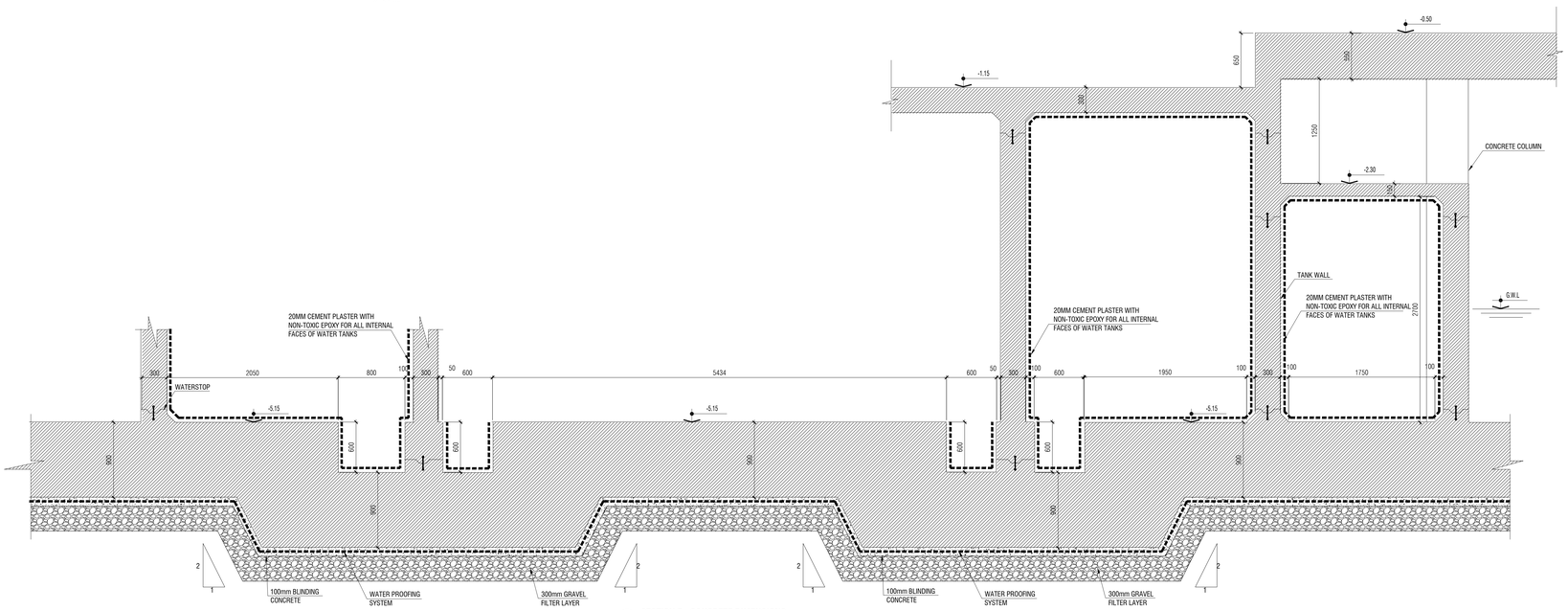

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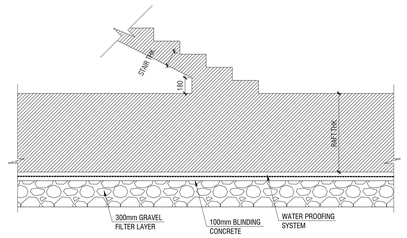
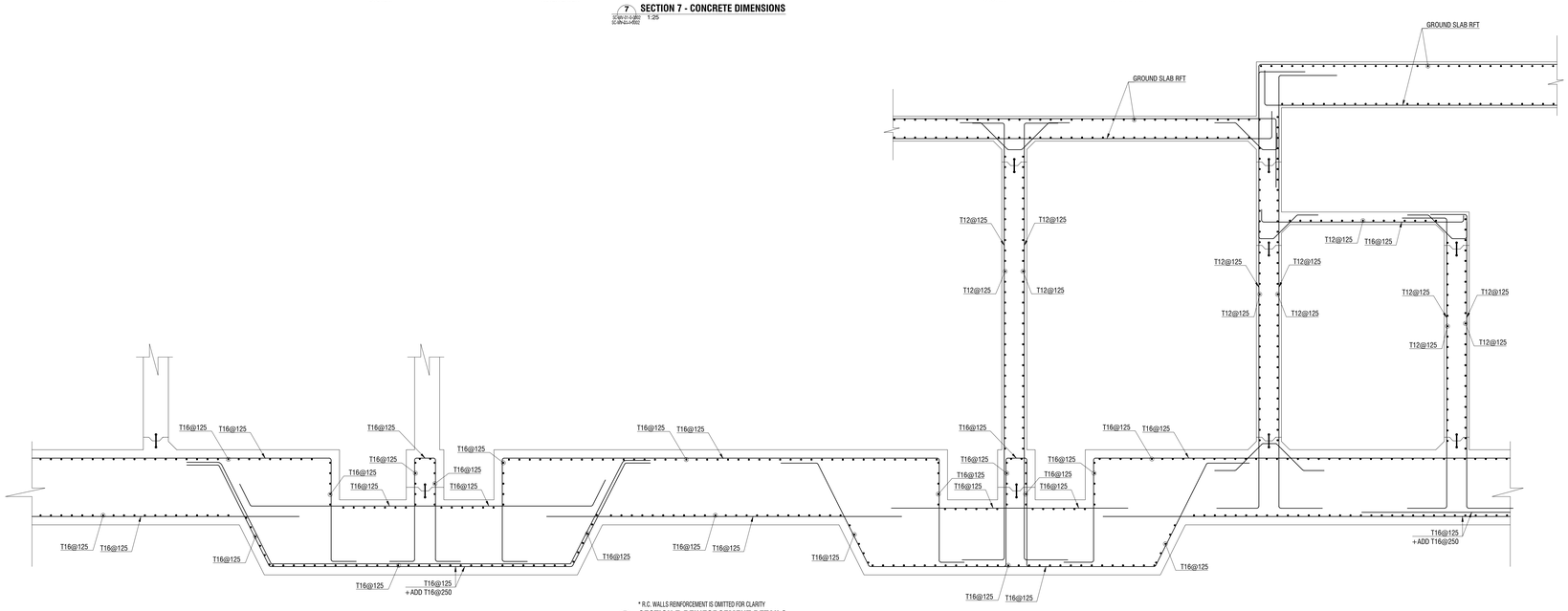


TYPICAL DETAIL FOR STAIR STARTER
1:25



* R.C. WALLS REINFORCEMENT IS OMITTED FOR CLARITY

7 SECTION 7-REINFORCEMENT DETAILS
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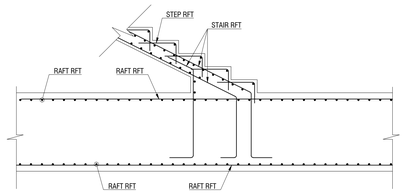

TYPICAL DETAIL FOR STAIR STARTER REINFORCEMENT
1:25

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
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GENERAL KEY PLAN

ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

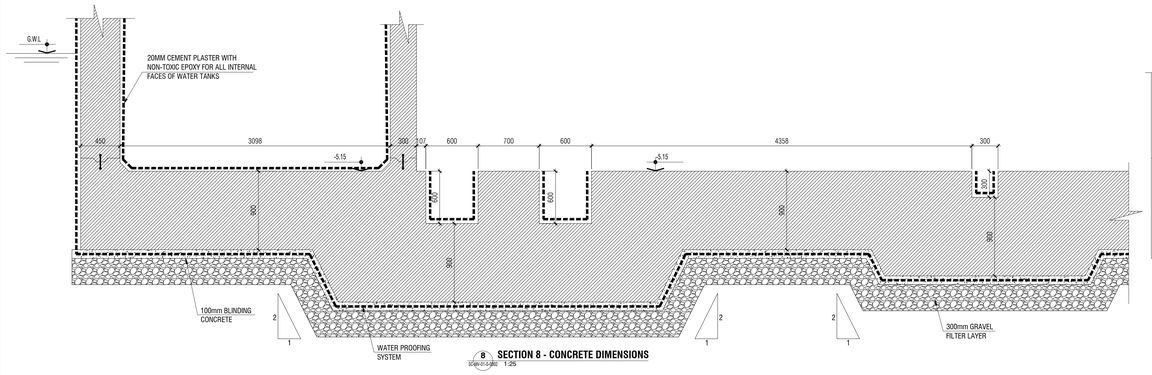
SECTIONS AND DETAILS
SHEET 3 OF 9

Structural Package

SCALE: AS SHOWN

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-03-0-0003	FC-00



8 SECTION 8 - CONCRETE DIMENSIONS
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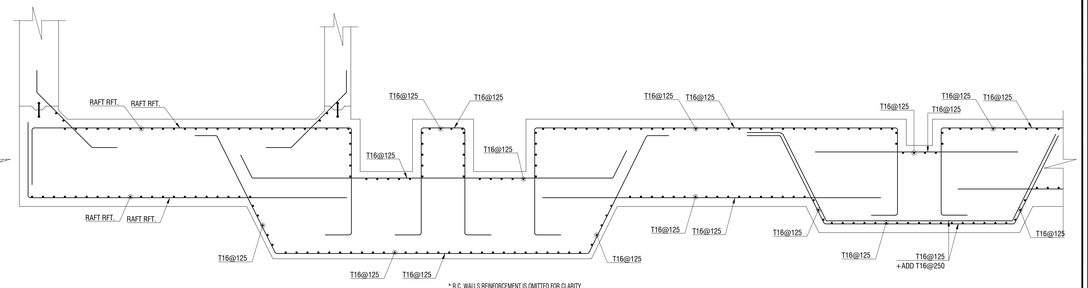

* B.C. WALLS REINFORCEMENT IS OMITTED FOR CLARITY

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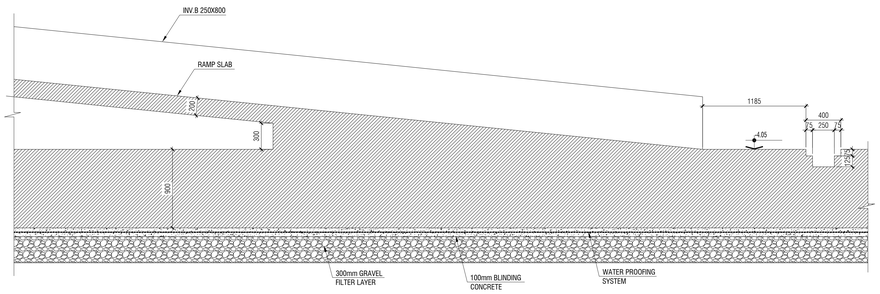

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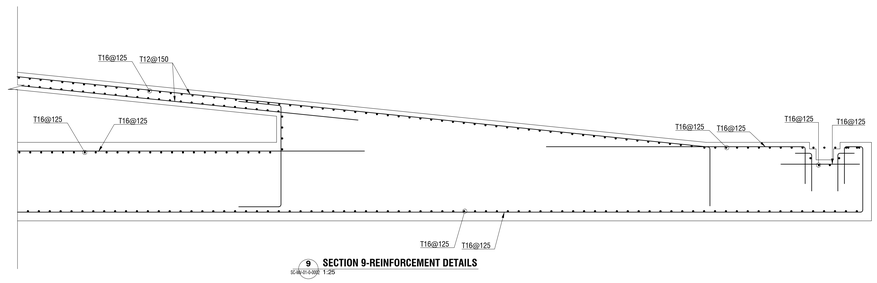

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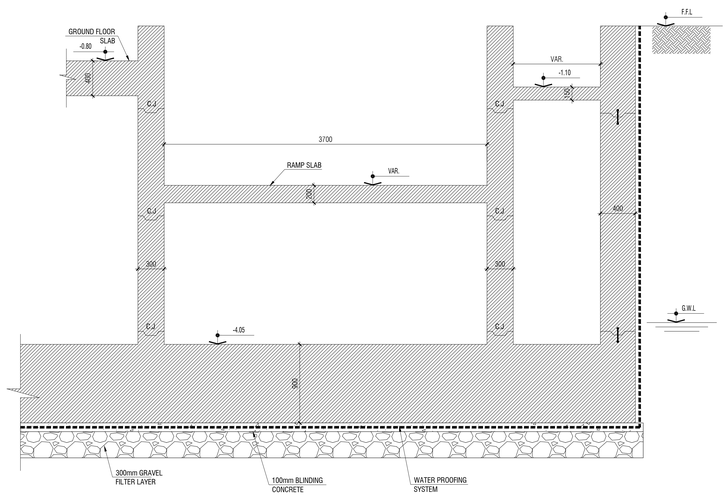

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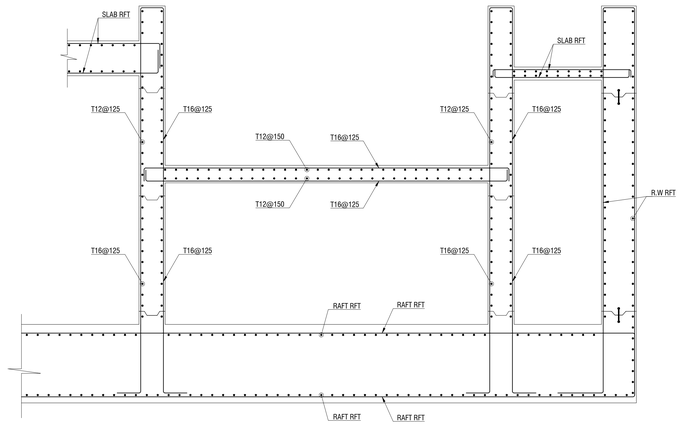

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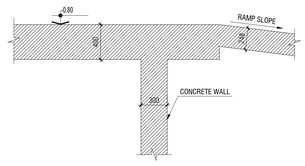

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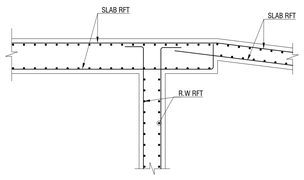

11 SECTION 11-REINFORCEMENT DETAILS
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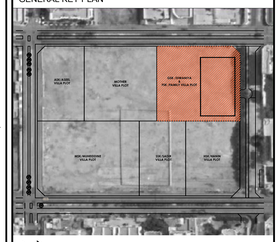
GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
SHEET 4 OF 9

Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st_ISSUE DATE	PROJECT NO	DRAWING NO	REV
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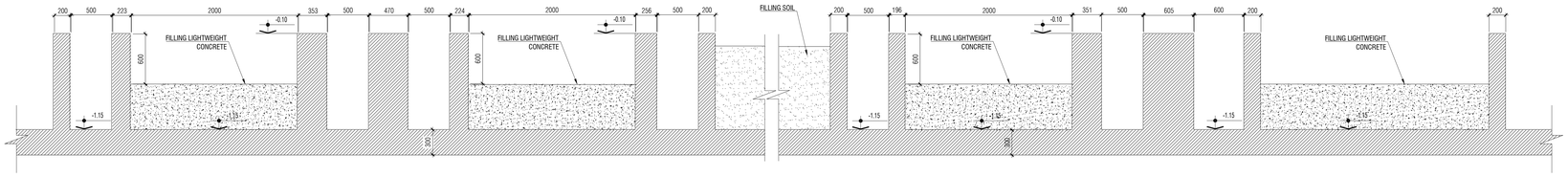

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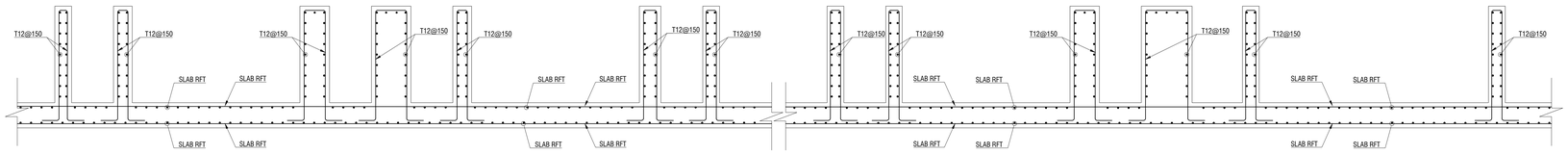

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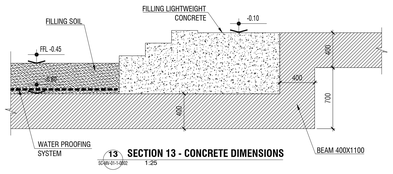

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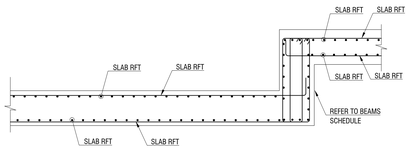

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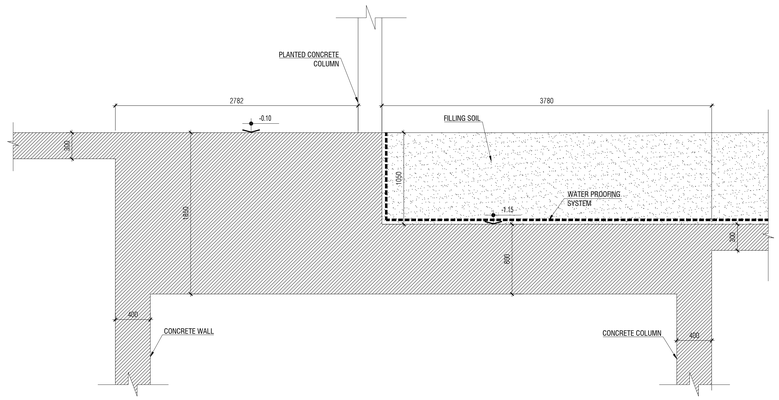

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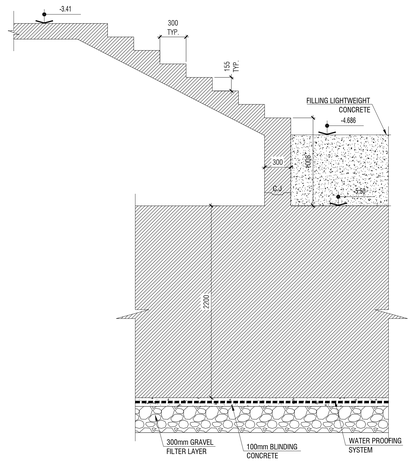

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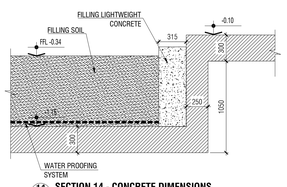

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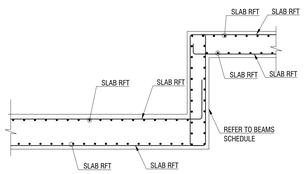

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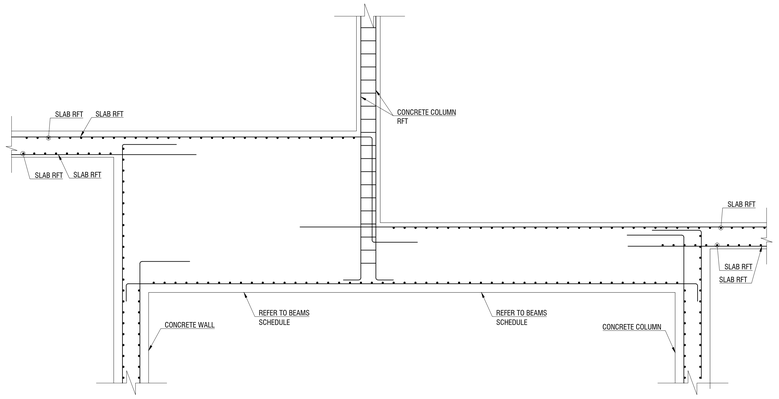

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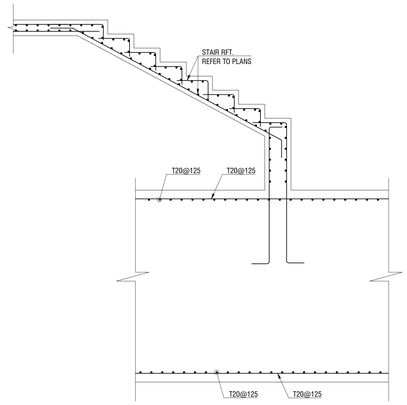

16 SECTION 16 - REINFORCEMENT DETAILS
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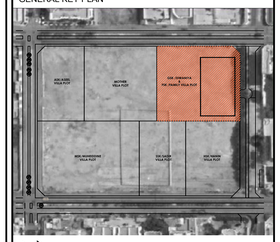

ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
SHEET 5 OF 9

Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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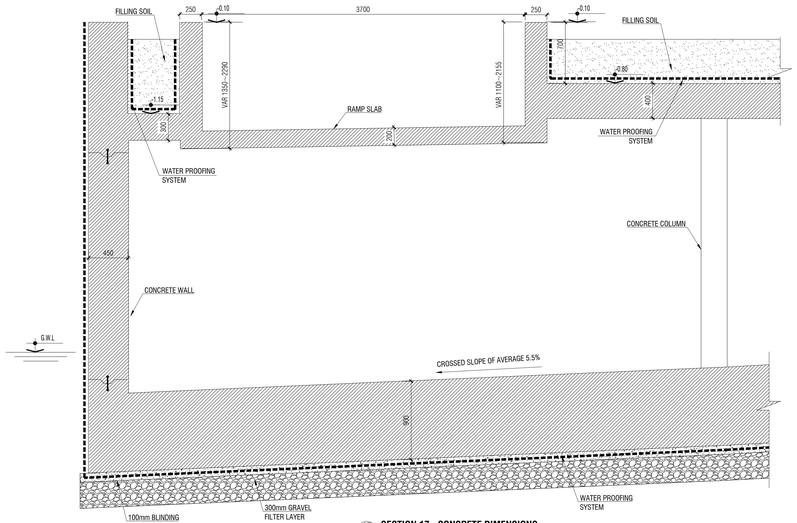

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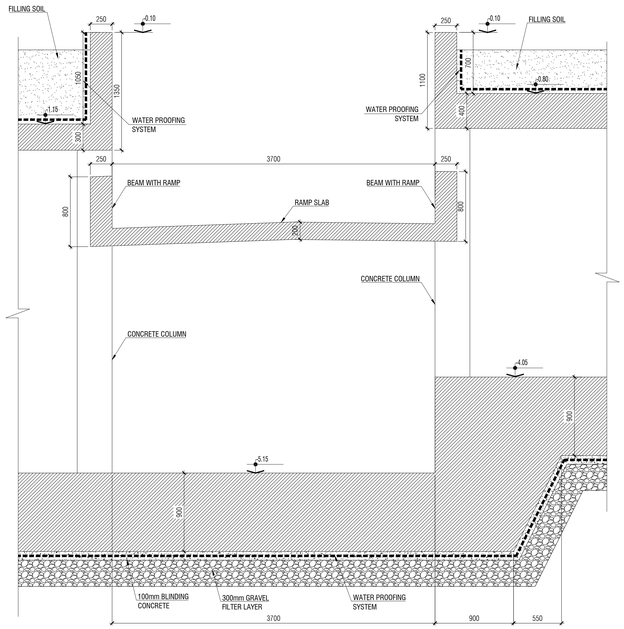

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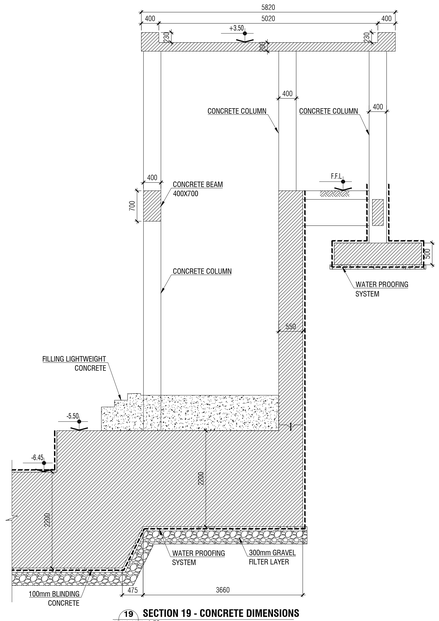

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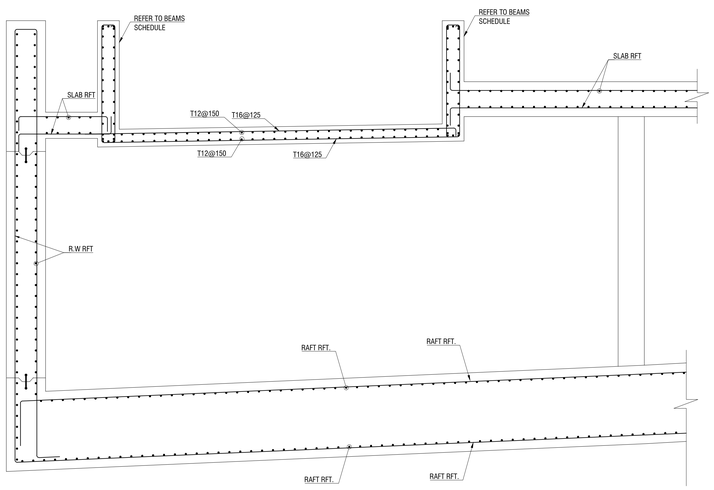

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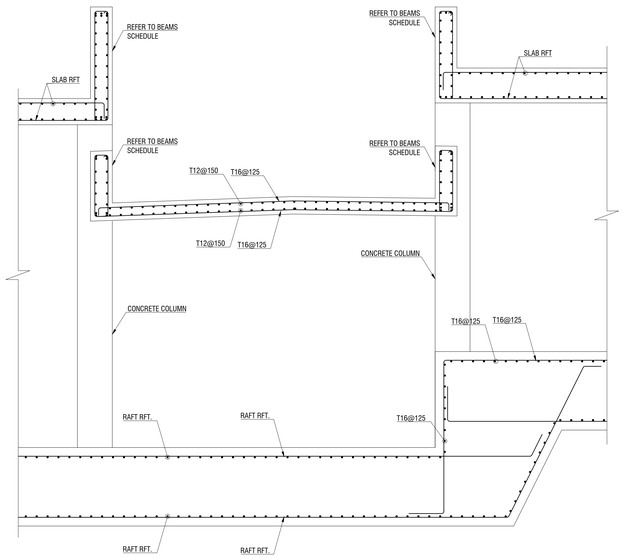

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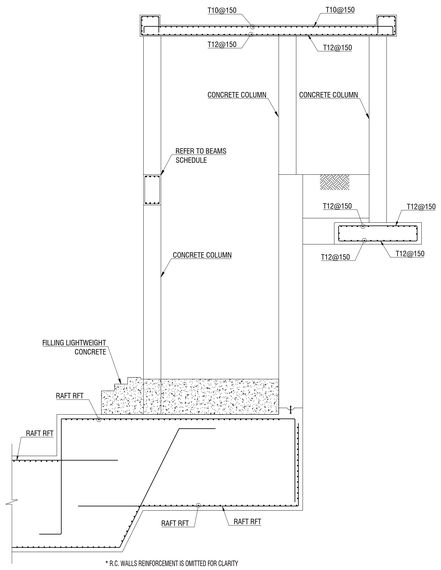

* R.C. WALLS REINFORCEMENT IS OMITTED FOR CLARITY

19 SECTION 19 - CONCRETE DIMENSIONS
SC-MV-01-0-0002 1:50
SC-MV-03-P-0002

GENERAL NOTES:

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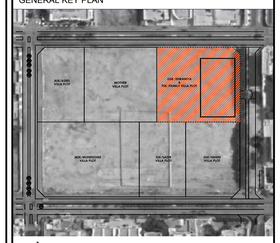
GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
SHEET 6 OF 9

Structural Package

SCALE: AS SHOWN

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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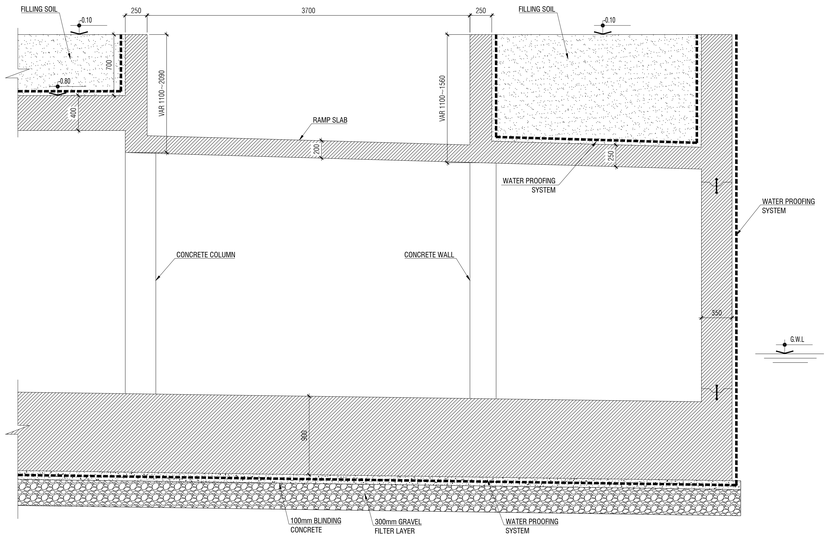

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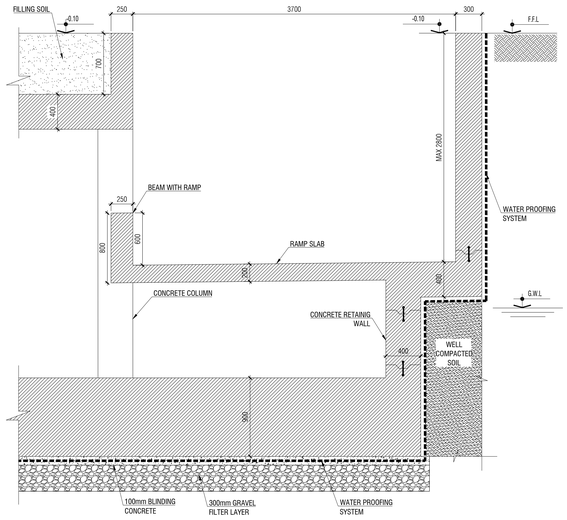

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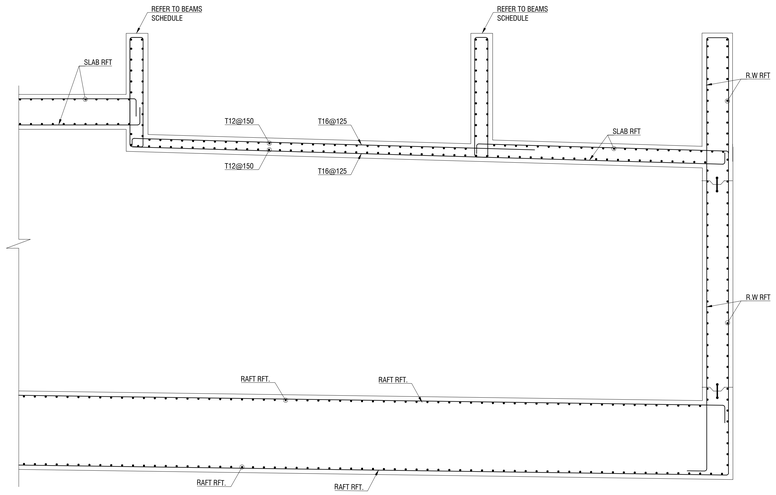

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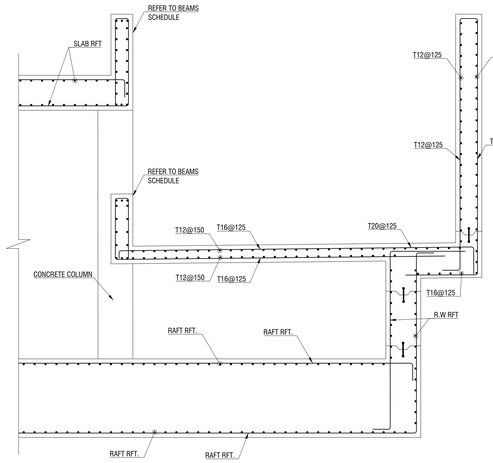

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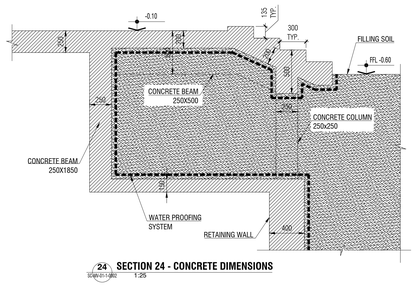

24 SECTION 24 - CONCRETE DIMENSIONS
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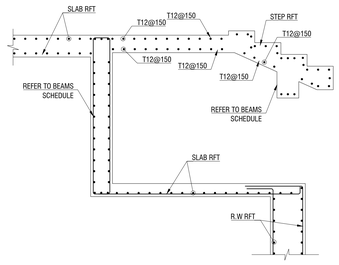

24 SECTION 21 - REINFORCEMENT DETAILS
SCALE: 1:25

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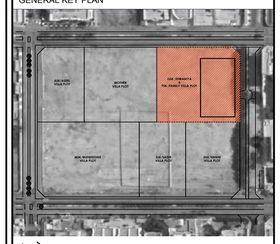

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REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
SHEET 7 OF 9

Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
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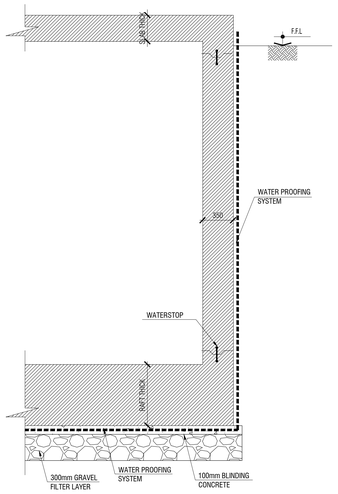

BASEMENT WALL (R.W-01) - CONCRETE DIMENSIONS
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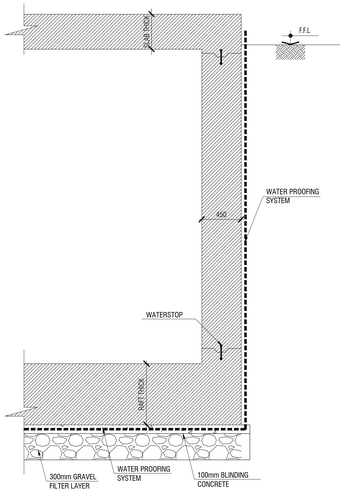

BASEMENT WALL (R.W-02) - CONCRETE DIMENSIONS
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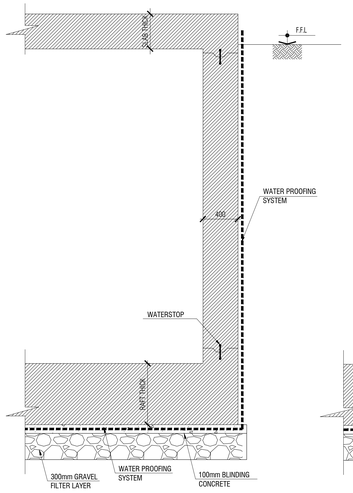

BASEMENT WALL (R.W-03) - CONCRETE DIMENSIONS
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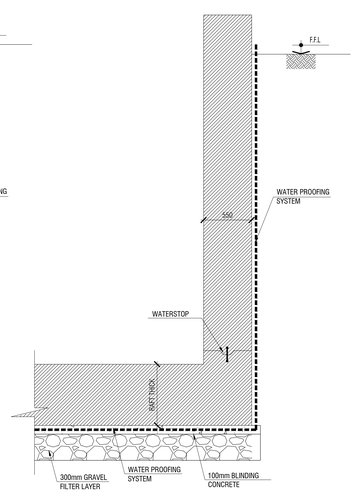

BASEMENT WALL (R.W-04) - CONCRETE DIMENSIONS
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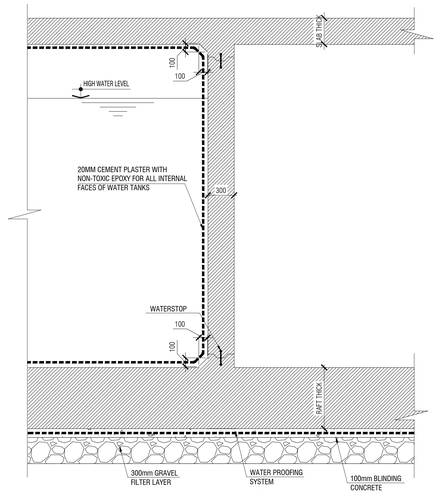
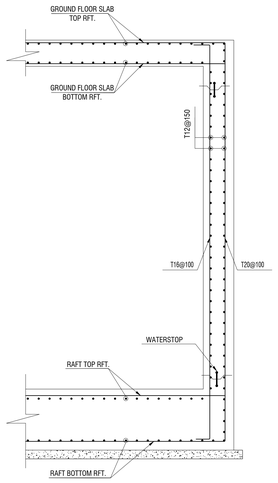
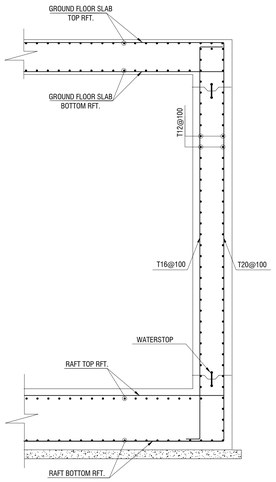


TANK WALL (TW01) - CONCRETE DIMENSIONS
1:25



BASEMENT WALL (RW01) TYP.REINFORCEMENT DETAILS
1:25



BASEMENT WALL (RW02) TYP.REINFORCEMENT DETAILS
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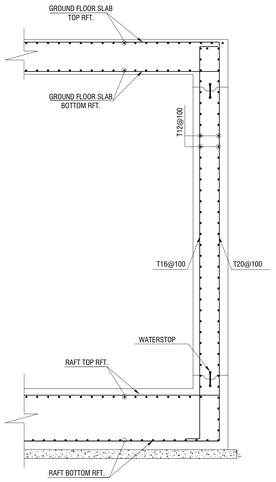
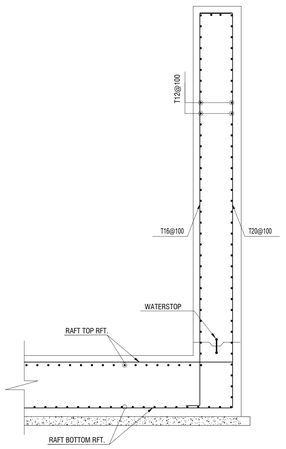


RETAINING WALL (RW03) TYP. RFT DETAIL
1:25



RETAINING WALL (RW04) TYP.REINFORCEMENT DETAILS
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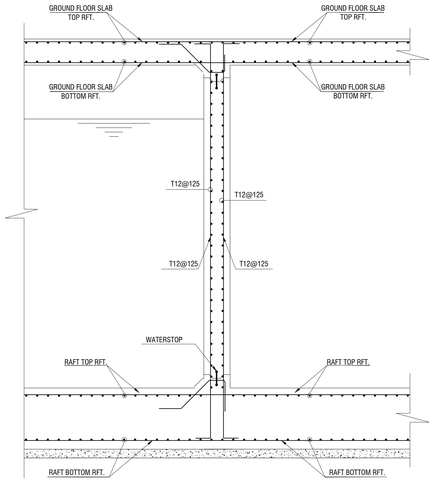
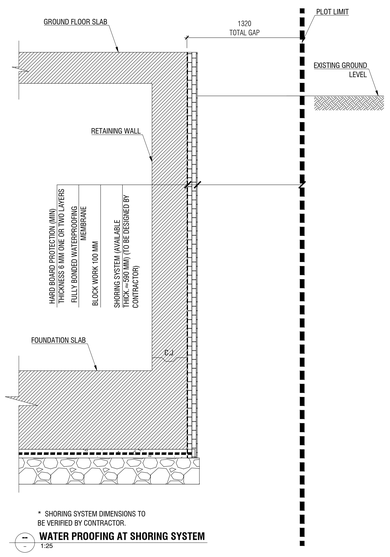
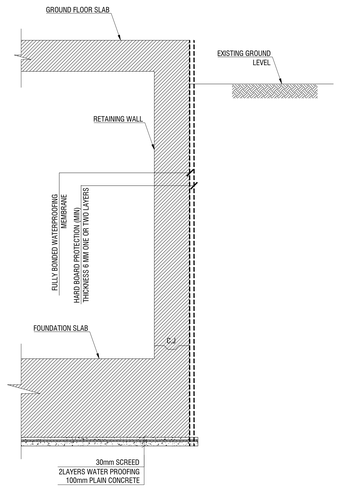


TANK WALL (TW01) TYP.REINFORCEMENT DETAILS
1:25

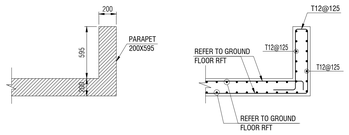


* SHORING SYSTEM DIMENSIONS TO BE VERIFIED BY CONTRACTOR.

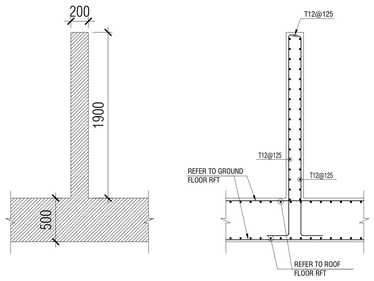
WATER PROOFING AT SHORING SYSTEM
1:25



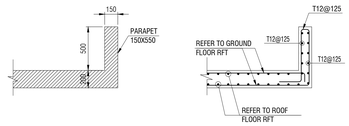
WATER PROOFING TYP.DETAIL
1:25



TYPICAL DETAIL FOR PARAPET AT GARDEN AT GROUND FLOOR
1:25



TYPICAL DETAIL FOR PARAPET 1 AT ROOF FLOOR
1:25



TYPICAL DETAIL FOR PARAPET 2 AT ROOF FLOOR
1:25

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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4. ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SHOP DRAWINGS.

GENERAL KEY PLAN

ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

SECTIONS AND DETAILS
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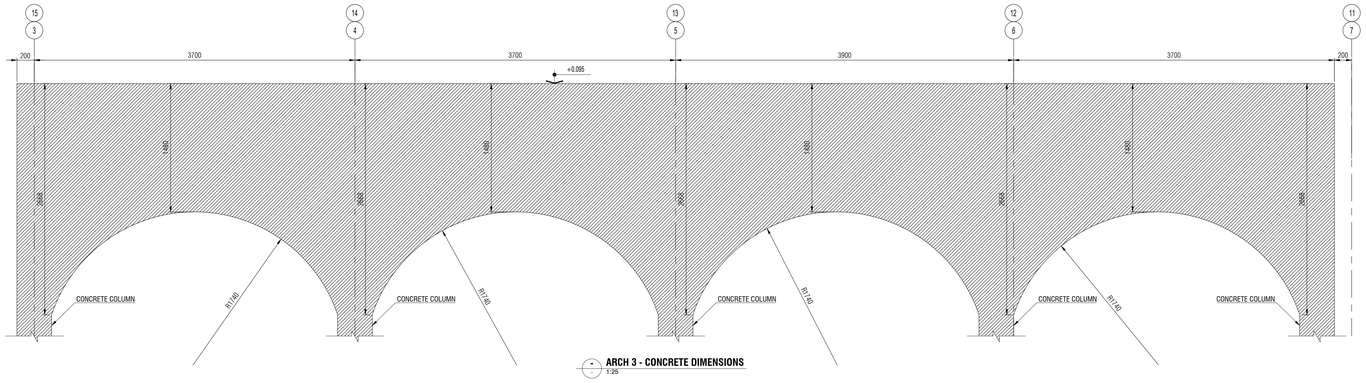
Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-03-0-0008	FC-00



ARCH 3 - CONCRETE DIMENSIONS
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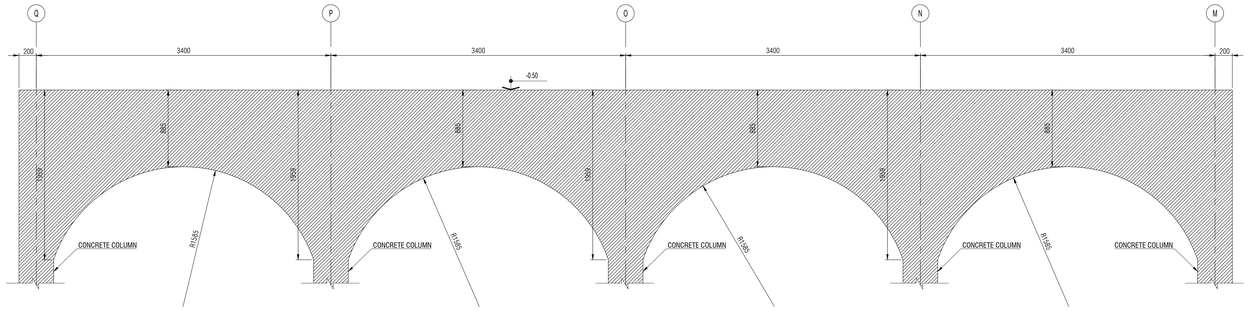

ARCH 4 - CONCRETE DIMENSIONS
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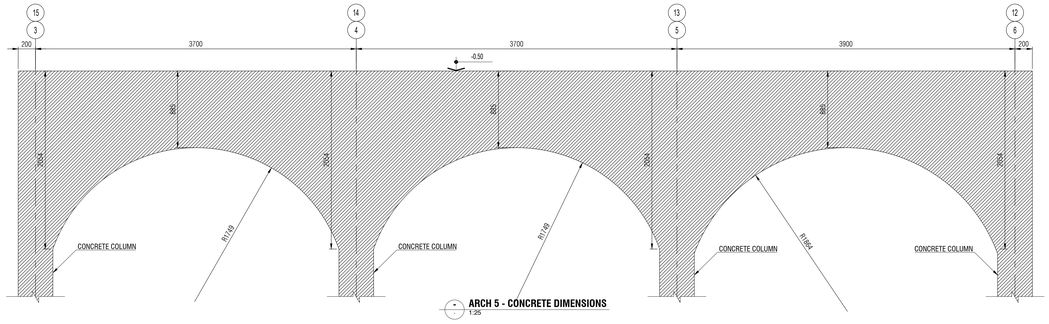

ARCH 5 - CONCRETE DIMENSIONS
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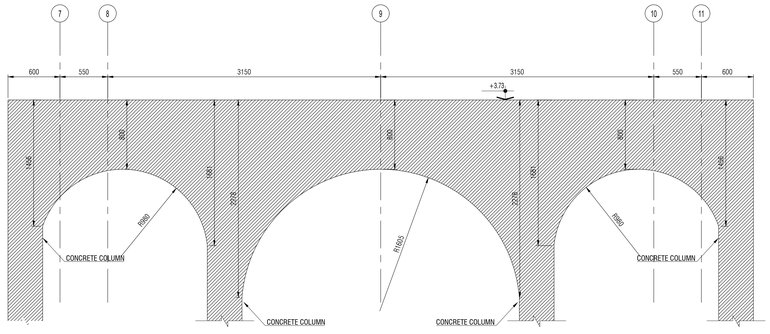

ARCH 7 - CONCRETE DIMENSIONS
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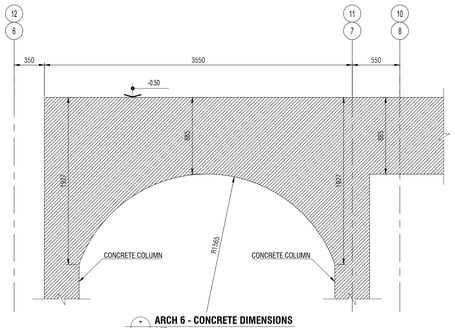
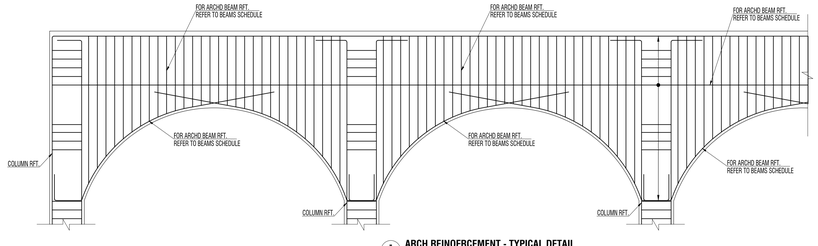


ARCH 6 - CONCRETE DIMENSIONS
1:25



ARCH REINOFRCEMENT - TYPICAL DETAIL
1:25

GENERAL NOTES:

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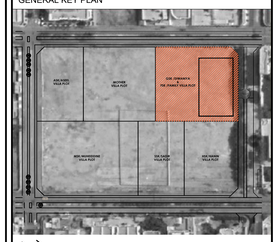
GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

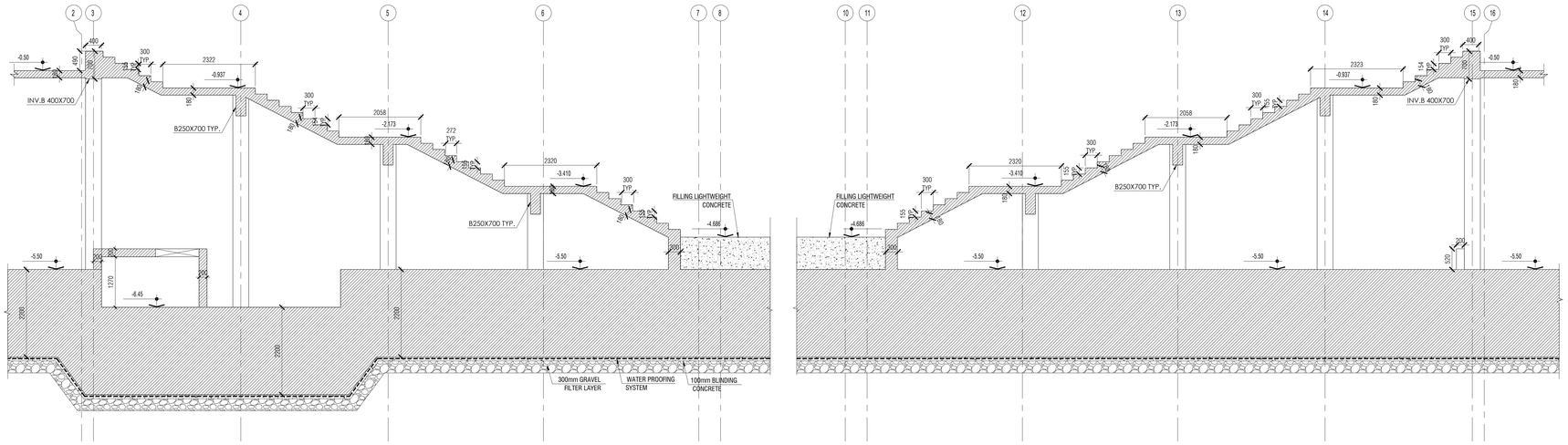
SECTIONS AND DETAILS
SHEET 9 OF 9

Structural Package

SCALE 1:25

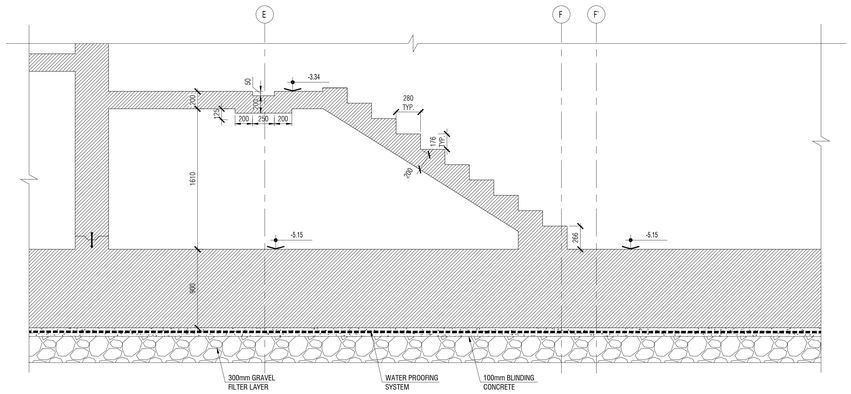
DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-03-0-0009	FC-00



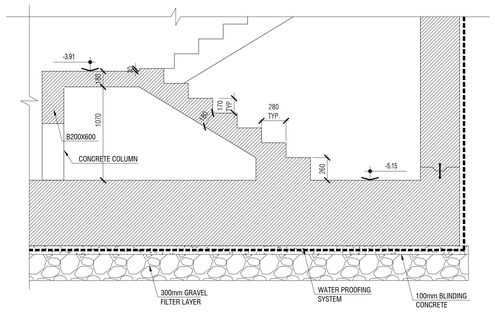
* STAIR REINFORCEMENT SHOULD BE TAKEN FROM PLAN

GARDEN STAIR - CONCRETE DIMENSIONS
1:50



* STAIR REINFORCEMENT SHOULD BE TAKEN FROM PLAN

23 SECTION 23 - CONCRETE DIMENSIONS
SC-MV-01-0-0002 1:25



* STAIR REINFORCEMENT SHOULD BE TAKEN FROM PLAN

22 SECTION 22 - CONCRETE DIMENSIONS
SC-MV-01-0-0002 1:25

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
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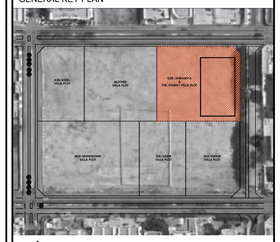
GENERAL KEY PLAN



ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
FC-00	04-11-2022	FIRST_ISSUE

CLIENT:

DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

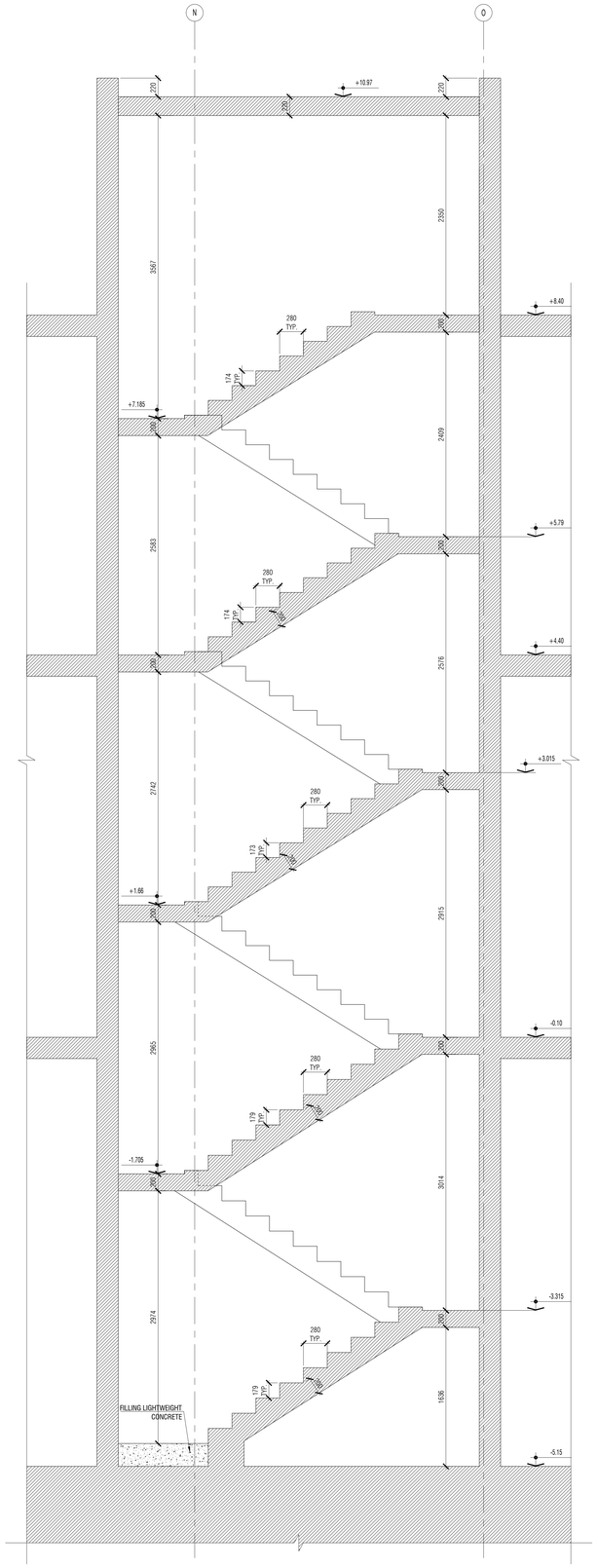
STAIRS AND RAMPS DETAILS SHEET 1OF2

Structural Package

SCALE: AS SHOWN

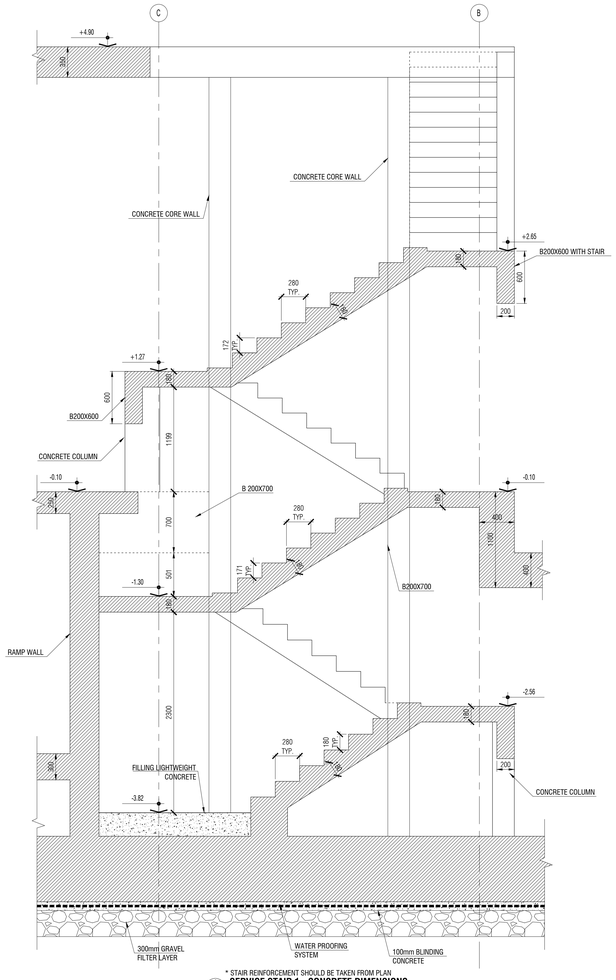
DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-04-0-0001	FC-00



* STAIR REINFORCEMENT SHOULD BE TAKEN FROM PLAN

2 SERVICE STAIR 2 - CONCRETE DIMENSIONS
1:25



* STAIR REINFORCEMENT SHOULD BE TAKEN FROM PLAN

1 SERVICE STAIR 1 - CONCRETE DIMENSIONS
1:25

GENERAL NOTES:

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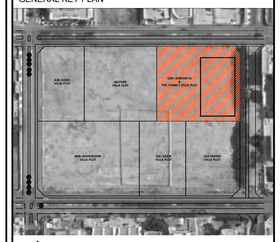
GENERAL KEY PLAN



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DAR SALEH

MAIN CONSULTANT :

SUB-CONSULTANT :

PROJECT:

Al Morjan Compound Family Villa

JEDDAH, KSA

SHEET CONTENTS:

STAIRS AND RAMPS DETAILS SHEET 2OF2

Structural Package

SCALE 1:25

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
H.Z	M.E.K	O.M	A.B

1st ISSUE DATE	PROJECT NO	DRAWING NO	REV
04-11-2022	SA21.49-50	SC-MV-04-0-0002	FC-00