

HAND BALL COURT
ARCHITECTURAL AND STRUCTURAL DRAWING
2022.01.24

SIARCH
P R I V A T E L I M I T E D
LONUZIYAARAY MAGU, MALE', 20075, MALDIVES
EMAIL: I N F O @ S I A R C H . D E S I G N
H T T P / / : W W W . S I A R C H . D E S I G N

GENERAL NOTES

GENERAL:

1. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
3. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND ENSURE THAT NO STRUCTURAL ELEMENT BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES OR OTHER ACCETABLE STANDARDS.
5. BASED ON THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL PRODUCE STRUCTURAL SHOP DRAWINGS FOR APPROVAL IF REQUESTED.
6. ALL DIMENSIONS TO STRUCTURAL DRAWINGS ARE IN MILLIMETERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.
7. THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110 ' STRUCTURAL USE OF CONCRETE'
8. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN THE TYPICAL DRAWINGS FOR DETAILS NOT SHOWN SPECIFICALLY.
9. ALL PROPS AND FORMWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.
10. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLABS AND BEAMS BY 30mm. THE JOINT SHALL BE FILLED WITH FIBRE BOARD OR COMPRESSIBLE MATERIAL PRESSED METAL COVERING BOTH SIDES OF THE JOINT, AND THE METAL COVERING SHALL BE FIXED TO SOFFIT OF THE BEAM OR SLAB AS THE CASE MAY BE.

FOUNDATIONS:

1. ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/m²
2. ALL FOOTINGS SHALL BE PLACED MINIMUM 1.2m BELOW THE NATURAL GROUND LEVEL UNLESS STATED OTHERWISE
3. ALL BACKFILL SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
4. WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
5. IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOOTING, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
6. IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE SITE, AND LOVERING THE GROUND WATER TO AT LEAST 70cm BELOW LEVEL OF FOUNDATIONS.
7. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
8. NO BACKFILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.
9. UNLESS OTHERWISE SHOWN ALL FOOTINGS ARE CONCETRIC TO COLUMNS.

CONCRETE:

1. a. ALL INSITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 25 N/mm² TO THE RELEVANT CLAUSES OF BS5328.
b. ALL PLAIN CONCRETE (OR BLINDING) SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm² (EQUIVALENT CYLINDER STRENGTH, FC = 12 N/mm²), TO THE RELEVANT CLAUSES OF BS538.
3. NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL
4. CONSTRUCTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
5. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS
6. SPECIAL RULES REGARDING CONCRETING IN HOT WEATHER SHALL BE OBSERVED
7. OPENING IN SLABS:
FOR OPENING LESS THAN 150 x 150mm BARS SHALL BE RE-ARRANGED AROUND THE OPENING.
FOR OPENINGS GREATER THAN 300 x 300mm BUT LESS THAN 600 x 600mm AND NOT SHOWN ON PLAN, PROVIDE 2 ϕ 16 TOP AND BOTTOM ALONG EACH SIDE AND DIAGONALLY AT CORNERS OR AS OTHERWISE DETAILED. AMOUNT OF BARS GOT DISCONTINUED DUE TO THE OPENING SHALL BE PLACED AT THE RESPECTIVE SIDES.
OPENINGS GREATER THAN 600 x 600mm AND NOT SHOWN ON PLAN SHALL BE APPROVED
8. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.

REINFORCEMENT:

1. REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO BS-4449 WITH MINIMUM YIELD STRENGTH FY=410 N/mm², GRADE 410. WELDED WIRE MESH SHALL COMPLY WITH BS-4483.
2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN OR AS OTHERWISE APPROVED.
3. 25mm SPACER BARS SHALL BE PROVIDED AT 100cm CENTERS WHEREVER REINFORCEMENT IS PLACED IN MORE THAN ONE LAYER, UNLESS STATED OTHERWISE
4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
5. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
6. TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH FY = 410 N/mm² AND Fc' = 24 N/mm², (CYLINDER STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE MENTIONED IN DRAWINGS:
 - 6.1 BASIC TENSION DEVELOPMENT LENGTH, LD = 45 x BAR DIA.
 - 6.2 FOR HORIZONTAL REINFORCEMENTS (MEMBER THICKNESS LESS THAN 300mm) TENSION DEVELOPMENT LENGTH OR SPLICE, LD = 60 x BAR DIA.
 - 6.3 FOR HORIZONTAL REINFORCEMENTS (MEMBER THICKNESS MORE THAN 300mm) TENSION DEVELOPMENT LENGTH OR SPLICE, LD = 70 x BAR DIA.
 - 6.4 CLAUSES 6.1 TO 6.3 ARE APPLICABLE TO SLAB, WALL, BEAM,COLUMN, FOOTING AND RAFT.
 - 6.5 MINIMUM COMPRESSION DEVELOPMENT LENGTH, LDC = 30 x BAR DIA (OR 300mm WHICHEVER IS MORE).

KEY PLAN:

WARNING:

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- Do not scale drawings, use written dimensions only.
- This drawing is to be read in conjunction with the specifications and conditions of contract.
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REVISIONS

NO	DESCRIPTION	DATE

PROJECT:

ARCHITECTURAL

PHASE:

- CONCEPT DESIGN
- DESIGN DEVELOPMENT
- TENDER DOCUMENT
- FOR CONSTRUCTION
- AS BUILD DRAWINGS

DESIGNATION	NAME	SIGNATURE
DESIGNED BY	SIARCH.PVT.LTD	
ARCHITECT	-	
STR. ENGINEER	-	
CHECKED	MOHAMED SIRAJ	
DRAWN	SANKA SUMEDHA	

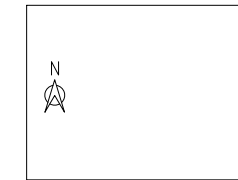
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ARCHITECTURAL

DRAWING INDEX

CODE	DATE	DWG. NO:
RSD_190	22.01.2022	AR00
FORMAT	A1 A2 A3	
SCALE	- - mts	ISSUE A
PDF FILE NAME: RSD-190_HSCAR00_A		

KEY PLAN:



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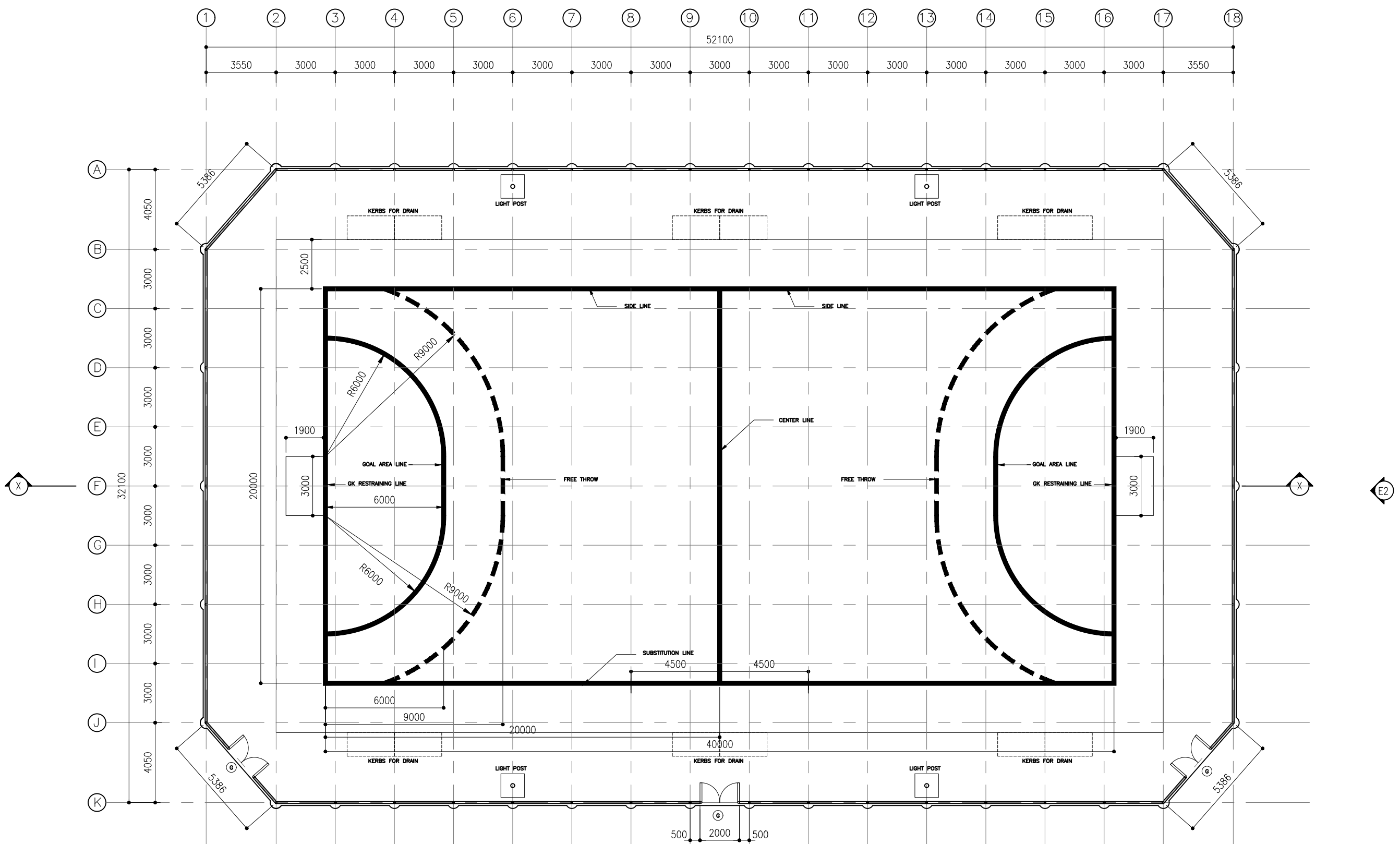
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DESIGNED BY	SIARCH.PVT.LTD	
ARCHITECT	-	
STR. ENGINEER	-	
CHECKED	MOHAMED SIRAJ	
DRAWN	SANKA SUMEDHA	

DICIPLINE:

ARCHITECTURAL

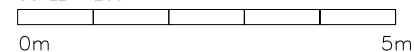
FLOOR PLAN

CODE	DATE	DWG. NO:
RSD-190	22.01.2022	AR01
FORMAT	A1 A2 A3	
SCALE	- - 1:200	ISSUE A
PDF FILE NAME: RSD-190_HSC_AR01_A		



HAND BALL COURT FLOOR PLAN

SCALE 1:200



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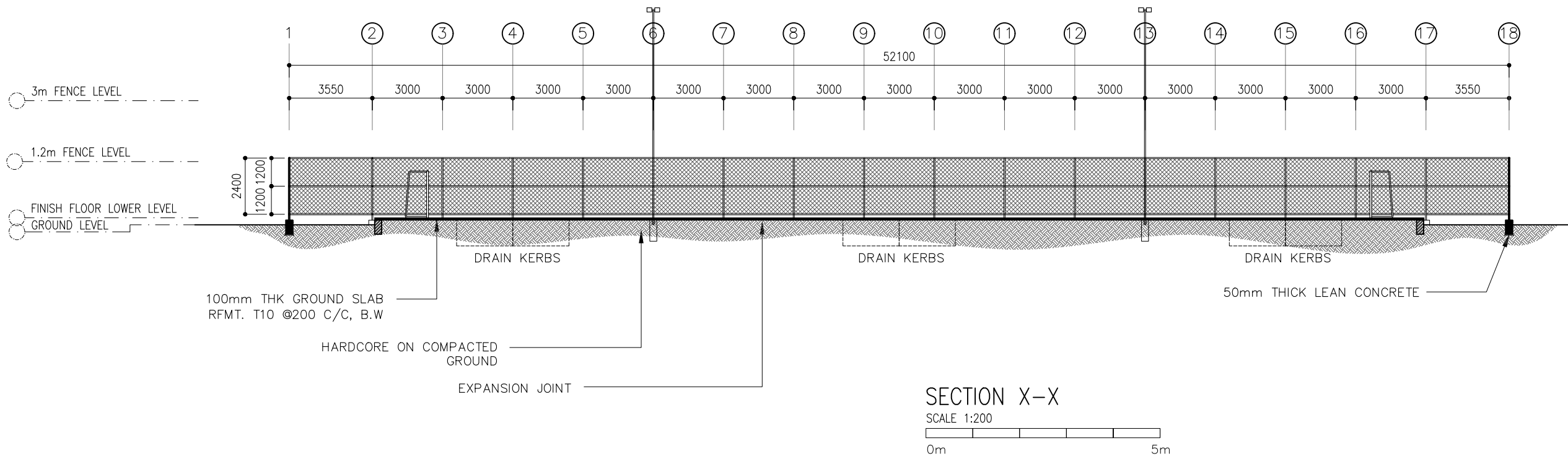
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ARCHITECT	-	
STR. ENGINEER	-	
CHECKED	MOHAMED SIRAJ	
DRAWN	SANKA SUMEDHA	

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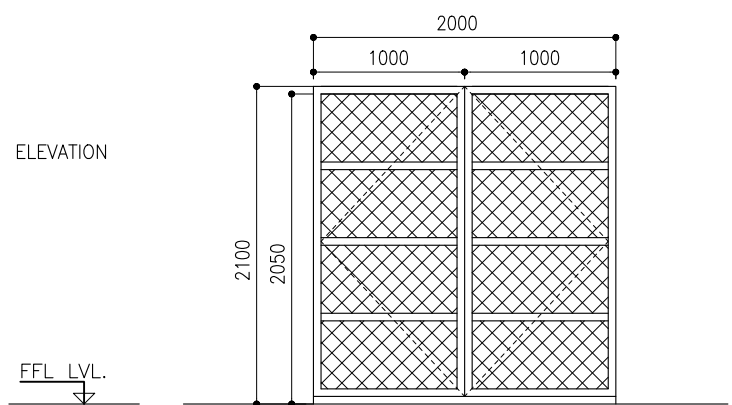
ARCHITECTURAL

SECTION X-X

CODE	DATE	DWG. NO:
RSD-190	22.01.2022	AR02
FORMAT	A1 A2 A3	
SCALE	- - 1:200	ISSUE A
PDF FILE NAME: RSD-190_HSC_AR02_A		



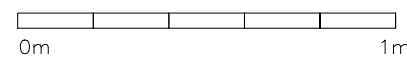
SYMBOL	DESCRIPTION	TOTAL = 03 no.
G		
AREA		G.A. = 2.16 m ²



LOCATION	REFEREES ROOM/ TEAM ROOMS
QUANTITY	03
DOOR FRAME	TIMBER, NYATOH OR EQUIVALENT
DOOR PANEL	TIMBER PANEL
LOCK/HINGES	BRUSHED METAL (SILVER) x 3, LOCK x1
FINISHES	VARNISH/WOOD DYED FINISH
REMARKS	VARNISH GRADE FINISH

DOOR SCHEDULE

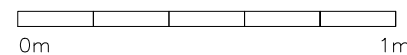
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SURFACE FINISH

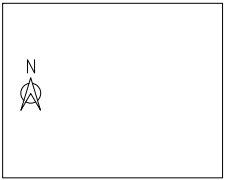
- 1- WELL COMPACTED GROUND
- 2- LEVELED AND TURF LAID
- 3- SILICA SAND FINISH OVER TURF
- 4- FENCE FINISH WITH CROSS WIRE MESH
- 5- FENCE FRAME PAINTED WITH EMULSION PAINT

FINISHES



GENERAL NOTES

1. All exterior masonry works shall be with 150mm wide concrete block/bricks
2. All interior masonry works shall be with 100mm wide concrete block/bricks
3. All below ground and exterior masonry shall be of solid blocks/bricks
4. All block/brick works shall be tied to the RC columns/beams as shown elsewhere.
5. A gap of 12mm shall be left between the u/s of the RC beams/slabs and the top of the wall.
6. A compressible material with sealant shall be used to fill the gap.
7. A DPM shall be used below the ground slab and on top of the 1st row of blocks above the Ground level
8. Lintels shall be used on top of door/window openings unless instructed otherwise.
9. A 35mm levelling screed shall be used on top of all floor slabs
10. Plastering thickness: 12mm inside and 2 coat of 10mm outside.
11. 200mm wide PVC mesh shall be used on joints of dissimilar material prior to plastering.



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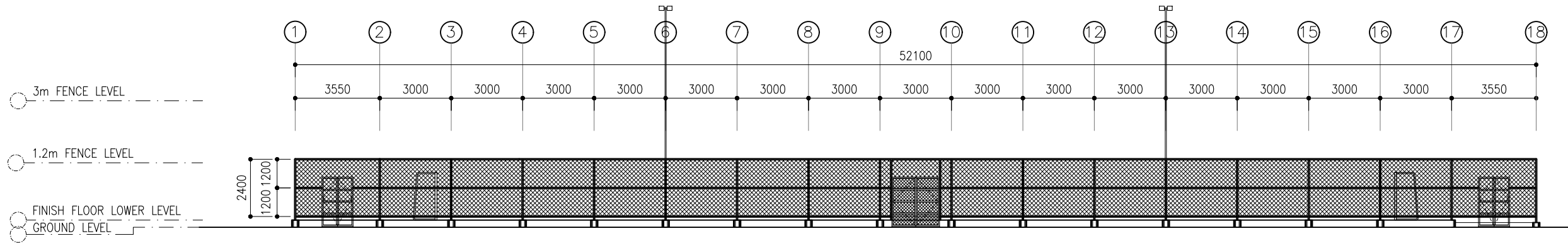
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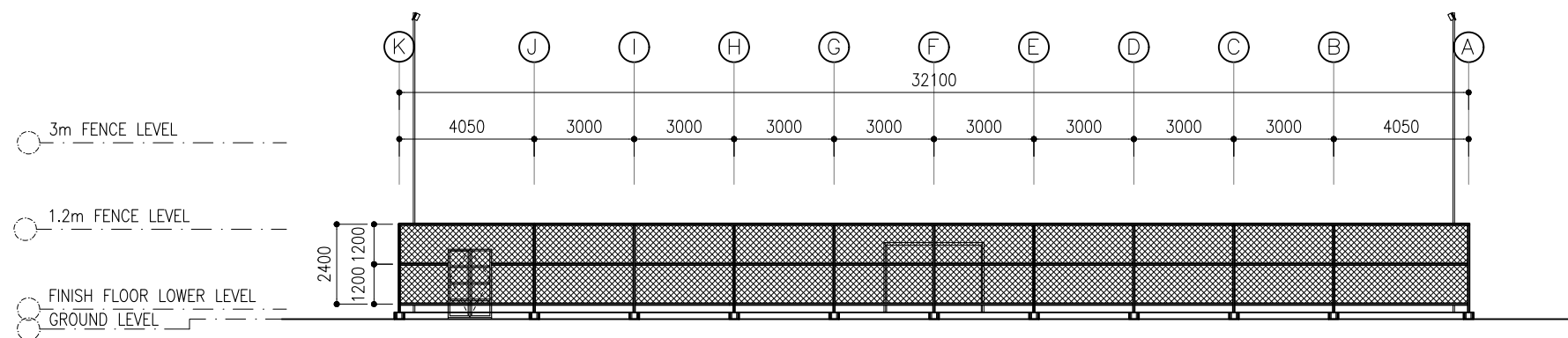
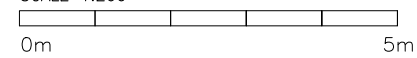
ELEVATION E1-E2

CODE	DATE	DWG. NO:
RSD-190	22.01.2022	AR03
FORMAT	A1 A2 A3	
SCALE	- - 1:200	ISSUE A
PDF FILE NAME: RSD-190_HSC_AR03_A		



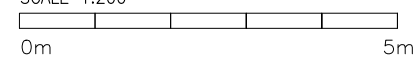
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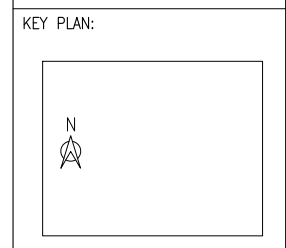
SCALE 1:200



ELEVATION - E2

SCALE 1:200





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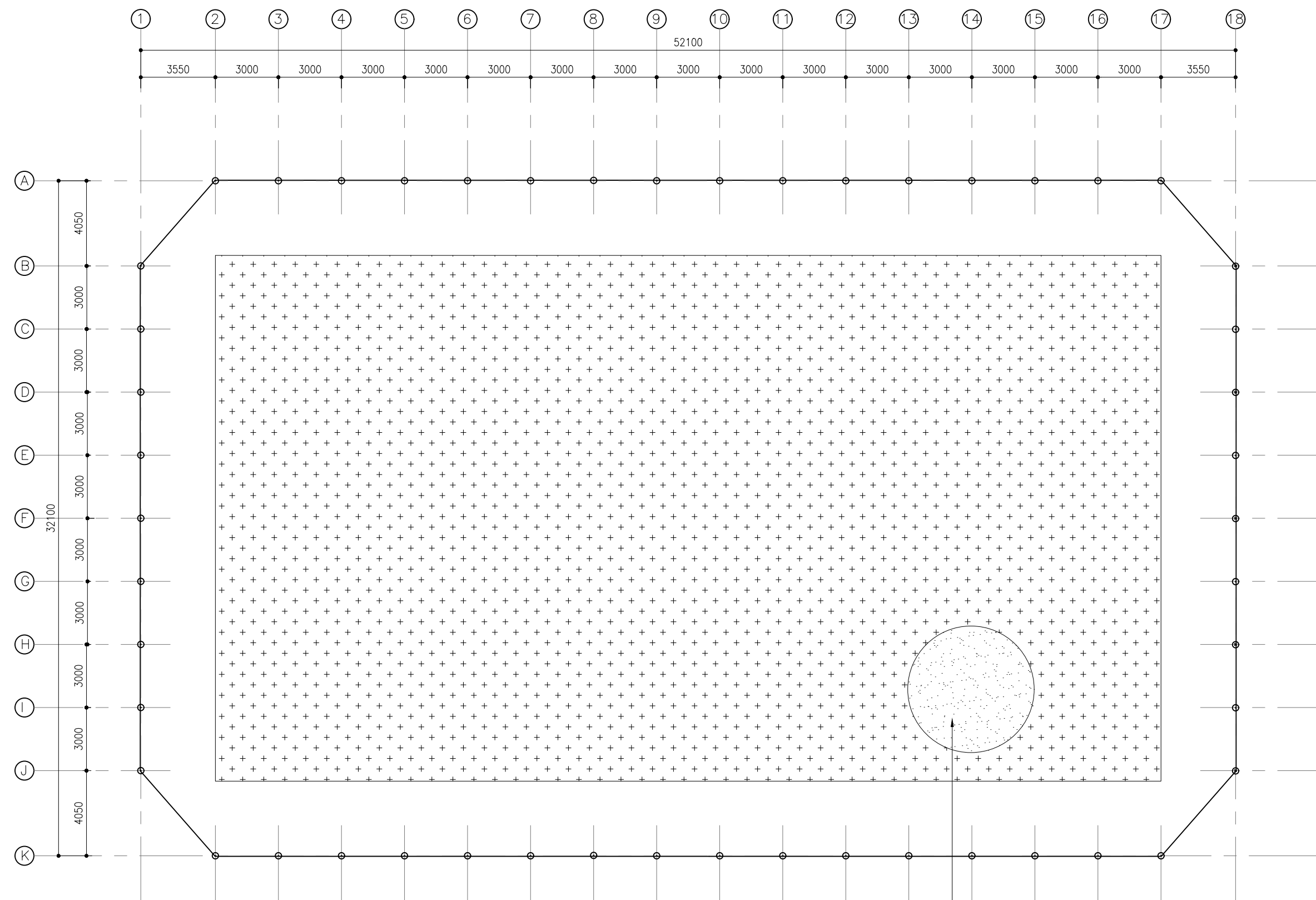
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ARCHITECT	-	
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DRAWN	SANKA SUMEDHA	

DICIPLINE:
STRUCTURAL

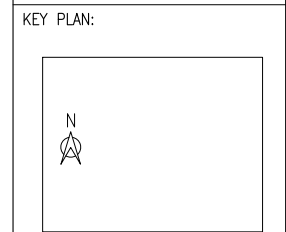
FOUNDATION & FLOOR SLAB PLAN

CODE	DATE	DWG. NO:
RSD-190	22.01.2022	ST02
FORMAT	A1 A2 A3	
SCALE	- - 1:200	ISSUE A

PDF FILE NAME: RSD-190_HSC_ST02_A



FOUNDATION & FLOOR FINISH
SCALE 1:200
0m 5m



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ARCHITECT	-	
STR. ENGINEER	-	
CHECKED	MOHAMED SIRAJ	
DRAWN	SANKA SUMEDHA	

DICIPLINE:
STRUCTURAL

FOUNDATION DETAIL

CODE	DATE	DWG. NO:
RSD-190	22.01.2022	ST03
FORMAT	A1 A2 A3	
SCALE	- - 1:5	ISSUE A

PDF FILE NAME: RSD-190_HSC_ST03_A

