

STRUCTURAL DESIGNS AND DRAWINGS



UNOPS

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MINISTRY OF HEALTH
AND SANITATION,
GOVERNMENT OF SIERRA LEONE.

PROJECT

PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA

NOV. 2020

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KENYA MULTI-COUNTRY
OFFICE (KEMC), NAIROBI
UNOPS BUILDING, UN LANE,
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NAIROBI, KENYA.

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DRAWING TITLE
GENERAL NOTES AND SPECIFICATIONS FOR STRUCTURAL WORKS

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GENERAL NOTES FOR STRUCTURAL WORKS

1. GENERAL

- 1.1 ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT GENERAL ARRANGEMENT DRAWINGS, M & E SERVICES, ARCHITECTURAL, EQUIPMENT SUPPLIER'S DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF ENGINEER BEFORE COMMENCING WORKS.
- 1.2 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 1.3 ALL CONTOURS AND LEVELS ARE IN METERS, UNLESS NOTED OTHERWISE.
- 1.4 ALL GRID ORDINATES ARE IN METERS.
- 1.5 ALL LEVELS INDICATED ARE FINISHED FLOOR LEVELS UNLESS NOTED OTHERWISE.
- 1.6 EL(+/-)0.00 CORRESPONDS TO EXISTING GROUND LEVEL.
- 1.7 IN THE EVENT THAT ANY OF THE NOTES GIVEN IN THIS DRAWING ARE IN CONFLICT WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATION, THE SPECIFICATION SHALL TAKE PRECEDENCE. THE CONFLICTING NOTE SHOULD IN ANY CASE BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
- 1.8 FOR ANY SPECIALIZED CONSTRUCTION METHOD (E.G. SLIP-FORM) OR TEMPORARY WORKS (E.G. CRANE) PROPOSED BY THE CONTRACTOR, A DETAILED METHOD STATEMENT TOGETHER WITH THE SUPPORTING CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION OF SUCH WORKS.

2. FOUNDATION FORMATION LEVEL

- 2.1 FOUNDATION FORMATION LEVELS FOR ALL COLUMNS AND STRIP FOOTINGS TO THE APPROVAL OF THE ENGINEER.

3. CONCRETE

- 3.1 CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORKS.
- 3.2 BLINDING AND MASS CONCRETE SHALL BE GRADE E (1 : 3 : 6) OR GRADE C15 UNLESS NOTED OTHERWISE.
- 3.3 CONCRETE GRADE FOR ALL REINFORCED CONCRETE WORKS SHALL BE GRADE C25 UNLESS NOTED OTHERWISE.
- 3.4 CONCRETE GRADE FOR WATER RETAINING STRUCTURES SHALL NOT BE LESS THAN GRADE C30.

PROPOSED USE	GRADE	PERMITTED TYPE OF AGGREGATE		MAX. SIZE AGGREGATE	WORKABILITY
REINFORCED CONCRETE (INCL. GROUND BEARING SLAB)	C 25	COARSE	FINE	20 MM	MEDIUM (75)
		BS 882	BS 882		
CONCRETE CONTAINING NO EMBEDDED METAL	C 20	BS 882	BS 882	20 MM	MEDIUM (75)
BLINDING CONCRETE	C 10	BS 882	BS 882	40 MM	MEDIUM (75)
CONCRETE IN MINOR ELEMENTS EG LINTELS	C 25	BS 882	BS 882	10 MM	MEDIUM (75)

4. REINFORCEMENT

- 4.1 ALL HIGH TENSILE (T) 460N/MM² AND MILD STEEL (R) 250N/MM² BARS TO BE IN ACCORDANCE WITH B.S. 4449 AND MESH FABRIC TO BE MADE FROM COLD WORKED STEEL BARS IN ACCORDANCE WITH B.S. 4483.
- 4.2 LEGEND FOR REINFORCEMENT SPECIFIED ON THE DRAWINGS IS AS FOLLOWS :

NF	NEAR FACE	TI	TOP 1ST LAYER
FF	FAR FACE	T2	TOP 2ND LAYER
EF	EACH FACE	AP	ALTERNATELY PLACED
EW	EACH WAY	AR	ALTERNATELY REVERSED
BI	BOTTOM 1ST LAYER	STG	STAGGERED
B2	BOTTOM 2ND LAYER		

- 4.3 UNLESS OTHERWISE STATED ON THE DRAWINGS MINIMUM CLEAR CONCRETE COVER TO MAIN REINFORCEMENT (I.E EXCLUDES LINKS) TO BE AS FOLLOWS:

FOUNDATIONS	50MM FROM BLINDING SURFACE OR 75MM FROM NATURAL GROUND
GROUND FLOOR SLAB	(BOTTOM & SIDES) 50MM, (TOP) 30MM
RETAINING WALLS	40MM
WATER TANK WALLS	40MM
COLUMNS	30MM
BEAMS (TOP)	30MM (BOTTOM AND SIDES) AND 30MM (TOP)
SLABS & STAIRCASES	25MM
MAXIMUM TOLERANCE ON CONCRETE COVER TO BE +/- 5MM.	

- 4.4 MINIMUM LAPS TO ALL BARS TO BE 50 X DIAMETER OF SMALLER BAR UNLESS OTHERWISE STATED.
- 4.5 WHEN REINFORCING STEEL IS NOTED AS CONTINUOUS IN BEAMS, SLABS AND/OR WALLS, OR WHEN ONLY A TYPICAL SECTION IS GIVEN, LAPS SHOULD ONLY BE USED WHEN THEY ARE UNAVOIDABLE DUE TO STOCK LENGTHS. IN THIS CASE ALL LAPSSHALL BE STAGGERED A MINIMUM OF 1200MM. THE TOP BAR SPLICES SHOULD BE LOCATED 'WITHIN THE MIDDLE HALF OF THE SPAN', AND THE BOTTOM BAR SPLICES SHOULD BE LOCATED AT 'SUPPORTS OR BETWEEN SUPPORTS & 1/3 SPAN POINT' UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5. STRUCTURAL STEEL

- 5.1 ALL STRUCTURAL STEEL WORK TO BE GRADE 43A OR 43C UNLESS NOTED OTHERWISE.
- 5.2 ALL BOLTED CONNECTIONS TO USE GRADE 8.8 BOLTS WITH WASHERS UNLESS NOTED OTHERWISE.
- 5.3 CONNECTION DETAILS FOR ALL STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH ENGINEER'S DRAWINGS. OR CONTRACTORS FABRICATIONS DRAWINGS APPROVED BY THE ENGINEER.
- 5.4 CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER PRIOR TO COMMENCEMENT OF FABRICATION.
- 5.5 PROTECTION OF THE STRUCTURAL STEELWORK TO BE AS PER THE TECHNICAL SPECIFICATIONS.
- 5.6 ALL OPEN ENDS OF R.H.S. AND S.H.S. SECTIONS SHALL BE BLOCKED WITH 3mm THICK PLATES UNLESS NOTED OTHERWISE.

6. CEMENT GROUT

- 6.1 ALL GROUTING FOR BOLT POCKETS AND UNDER STRUCTURAL STEEL BASE PLATES SHALL BE DONE WITH NON-SHRINK CEMENT GROUT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS
- 6.2 GROUTING FOR FOUNDATIONS SUPPORTING PLANT AND MACHINERY SUPPLIED BY PLANT CONTRACTORS SHALL BE AS PER THE REQUIREMENTS OF THE PLANT CONTRACTORS.

7. HOLDING DOWN BOLTS

- 7.1 ALL HOLDING DOWN BOLTS SHALL BE OF GRADE 8.8 UNLESS NOTED OTHERWISE.
- 7.2 HOLDING DOWN BOLTS SHALL BE SET IN POSITION AS INDICATED ON THE DRAWINGS BY MEANS OF TEMPLATES AND SHALL BE SECURELY FIXED IN POSITION TO PREVENT DISPLACEMENT DURING CONCRETING.

8. BUILT-IN ITEMS FOR PLANT CONTRACTORS

- 8.1 ALL BUILT-IN ITEMS FOR ERECTION OF STEELWORK AND PLANT BY OTHER CONTRACTORS TO BE SET TO THE REQUIRED TOLERANCES AS SPECIFIED BY THE PLANT CONTRACTORS, AND SHALL BE APPROVED BY THE PLANT CONTRACTOR OR ENGINEER AS DIRECTED BY THE ENGINEER.



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GENERAL NOTES FOR STRUCTURAL WORKS

9. TIMBER

- 9.1 ALL TIMBER TO BE SEASONED CYPRESS GRADE II (STRUCTURAL) GRADE OR BETTER IN ACCORDANCE WITH BRITISH STANDARD BS 5268 OR EURO-CODE EC5 OR APPROVED EQUIVALENT)
- 9.2 ALL TIMBER SHALL BE PRESERVATIVE TREATED AS PER TECHNICAL SPECIFICATIONS.
- 9.3 WALL PLATE TO BE FIXED TO CONCRETE BEAM WITH 12MM DIA. BOLTS AT 600MM C/C.
- 9.4 ALL TIMBER RAFTERS AND TRUSSES SHALL BE FIXED TO WALL PLATE USING NAILS AND 3MM THICK BEND PLATE.
- 9.5 BOLTS FOR CONNECTION OF TIMBER MEMBERS SHALL BE 16MM DIA. BLACK BOLTS WITH WASHERS UNLESS NOTED OTHERWISE.

10. FINISHES

- 10.1 FINISHES TO STRUCTURAL ELEMENTS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS
- 10.2 ALL STRUCTURAL STEELWORK DELIVERED TO SITE SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, AND TO COLOUR SCHEMES APPROVED BY THE ARCHITECT.
- 10.3 FINISHES FOR EXPOSED CONCRETE CANOPY AND GUTTERS SHALL BE EXECUTED AS FOLLOWS :
 - 1) MINIMUM 12MM THICK CEMENT SCREED LAID TO FALLS.
 - 11) WATER PROOFING MATERIAL APPROVED BY A SPECIALIST SHALL BE LAID IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- 10.4 FINISHES FOR ROOFS SUPPORTED ON STRUCTURAL STEEL MEMBERS SHALL BE AS FOLLOWS:
 - 1) PROFILED IT4 GAUGE 26 GI SHEETS.

11. MOVEMENT JOINTS

- 11.1 EXPANSION JOINTS SHALL BE OF 20MM THICK UNLESS NOTED OTHERWISE.
- 11.2 EXPANSION JOINTS SHALL CONSIST OF FLEXCELL FILLER OR EQUIVALENT WITH MASTIC SEALANT TO THE APPROVAL OF THE ENGINEER.
- 11.3 UNLESS SHOWN OTHERWISE GROUND FLOOR SLABS WITH EXPANSION JOINTS SHALL HAVE M12x400MM LONG DOWELS ACROSS THE JOINT AT 300 C/C WITH ONE END DEBONDED & CAPPED TO LEAVE 25MM MINIMUM END GAP.
- 11.4 CONTRACTION JOINTS SHALL HAVE 10MM WIDE x 20mm DEEP GROOVES FILLED WITH MASTIC SEALANT AND WITH M12x400MM LONG DOWELS ACROSS THE JOINT AT 300 C/C, WITH ONE END DEBONDED.
- 11.5 BASEMENT AND GROUND FLOOR SLABS SHALL BE CAST IN PANELS NOT EXCEEDING 6M x 6M WITH CONTRACTION JOINT ALONG THE PERIMETER FOR ADJACENT PANELS.

12. WATER TIGHTNESS FOR CONCRETE

- 12.1 CONTRACTOR SHALL ENSURE WATER TIGHTNESS FOR WATER RETAINING OR EXCLUDING STRUCTURES BY USING CONCRETE ADMIXTURE 'SIKA' OR EQUIVALENT. CONCRETE STRUCTURES REQUIRED TO MEET THIS REQUIREMENT SHALL BE AS SPECIFIED ON THE DRAWINGS.
- 12.2 ALL CONTRACTION JOINTS FOR WATER TIGHT STRUCTURES SHALL HAVE 200MM WIDE PVC WATER BAR UNLESS SPECIFICALLY INDICATED OTHERWISE.

13. LEGEND

- 13.1 GENERAL LEGEND USED ON THE DRAWINGS IS AS FOLLOWS

FFL	FINISHED FLOOR LEVEL	CHS	CIRCULAR HOLLOW SECTION
SFL	STRUCTURAL FLOOR LEVEL	NB	NOMINAL BORE
GL	GROUND LEVEL	NTS	NOT TO SCALE
TOC	TOP OF CONCRETE	UB	UNIVERSAL BEAM
RHS	RECTANGULAR HOLLOW SECTION	UC	UNIVERSAL COLUMN
SHS	SQUARE HOLLOW SECTION	RSC	ROLLED STEEL CHANNEL.
RSA	ROLLED STEEL ANGLE.	RSJ	ROLLED STEEL JOIST.
MS	MILD STEEL	GMS	GALVANISED MILD STEEL.

14. DEAD LOADS

THE BUILDING IS CLASSIFIED AS "NORMAL OCCUPANCY" ACCORDING TO BS 6399 AND DESIGN CARRIED OUT FOR LIFE SAFETY BASED ON THE FOLLOWING LOADING CRITERIA:

14.1 DEAD LOADS

UNIT WEIGHT OF CONCRETE:	24.0 KN/M ³
FLOOR FINISHES :	1.0 KN/M ²
FALSE CEILING:	0.25 KN/M ²
SERVICES (BASIC ELECT & MECH):	0.10 KN/M ²
PARTITION LOADS:	1.5 KN/M ²
200MM THICK MASONRY WALL:	4.80 KN/M ²

14.2 Imposed / Live Loads

GENERAL OFFICE FLOORS: 2.50 KN/M²

15. FOUNDATIONS BEARING CAPACITY

- 15.1 THE FOUNDATION BEARING IS 160KN/M² ON (MEDIUM DENSE SAND & CORAL ROCK) AT APPROXIMATE DEPTHS OF 1.5M OF EXCAVATION.

16. BLOCKWORK

- 16.1 ALL LOAD BEARING BLOCKWORK TO BE CONSTRUCTED FROM SOLID BLOCKS OF 5.0N/MM² MIN CHARACTERISTIC COMPRESSIVE STRENGTH COMPLYING WITH BS 5628 PART 1:STRUCTURAL USE OF REINFORCED MASONRY
- 16.2 MORTAR TO CONFORM TO MORTAR DESIGNATION (iii) OF TABLE 1, BS5628 PART 1.

17. STEEL FABRICATION NOTES:

- 17.1. ALL MATERIALS SHALL BE TESTED FOR THROUGH THICKNESS PROPERTIES TO THE SPECIFIED QUALITY CLASS. BS 5950-2001, 2.1.2
- 17.2. MANUFACTURER'S CERTIFICATE OF TEST AND INSPECTION SHALL BE ISSUED CONFORMING TO BS EN 10204 STATING THE PROCESS OF MANUFACTURE AND PRODUCT GRADE.
- 17.3. PRELOADED FASTENERS SHALL GENERALLY BE HSFG BOLTS WITH ASSOCIATED NUTS AND WASHERS.
- 17.4. STEEL CASTINGS AND FORGINGS SHALL CONFORM TO BS 3100.
- 17.5. BEDDING MATERIAL FOR STEEL BASES ON CONCRETE FOUNDATION SHALL BE DONE TO ENGINEERS APPROVAL
- 17.6. STRUCTURAL STEEL MEMBERS SHALL POSITIVELY BE IDENTIFIED BY A MARKING SCHEME.
- 17.7. CUTTING SHALL BE BY SAWING, SHEARING, CROPPING OR THERMAL CUTTING (IF PERMITTED). HAND HELD CUTTING SHALL BE USED ONLY WHERE IT IS IMPRACTICAL TO USE MACHINE CUTTING.
- 17.8. CUT EDGES SHALL BE TRUE TO PROFILE AND FREE FROM MAJOR NOTCHES AND CUTTING SARRATIONS.
- 17.9. ROUND HOLE FOR PINS SHALL BE DRILLILED,PLASMER OR LASER CUT.
- 17.10. ALL WELD, BOLTING AND CUTTINGS SHALL BE APPROVED ON SITE BEFORE FABRICATION(PREPARE SAMPLE FOR ERECTION)
- 17.11. ALL MEASUREMENT SHALL BE DONE ACCURATELY AT ALL STAGES.
- 17.12. SUPPORT TO BE PROVIDED FOR ROOF FRAME UNITS UNTILL THEY ARE ADEQUATELY FIXED IN THE POSITION AS SHOWN.

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BLOCK A- ENTRANCE BUILDING

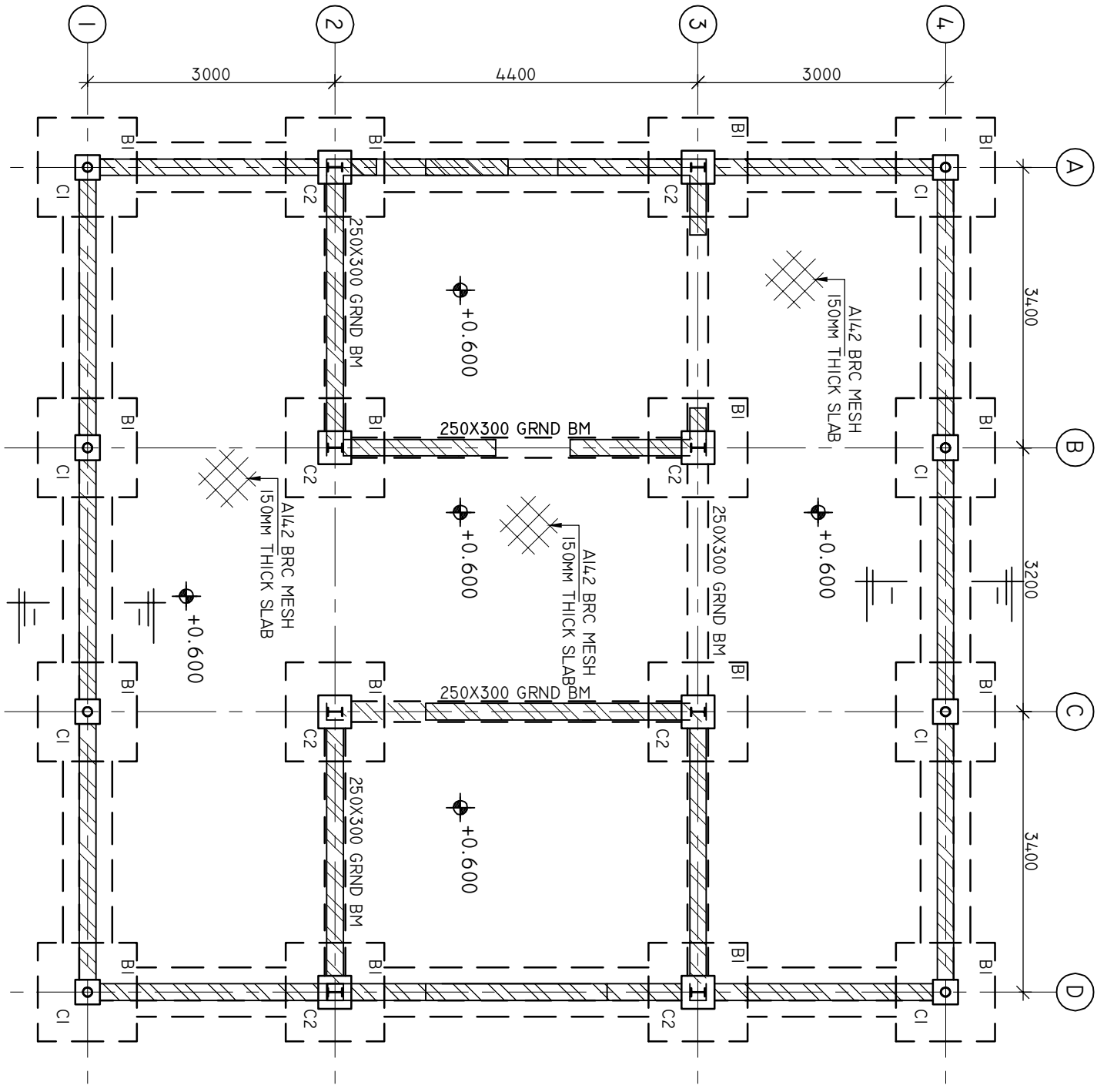
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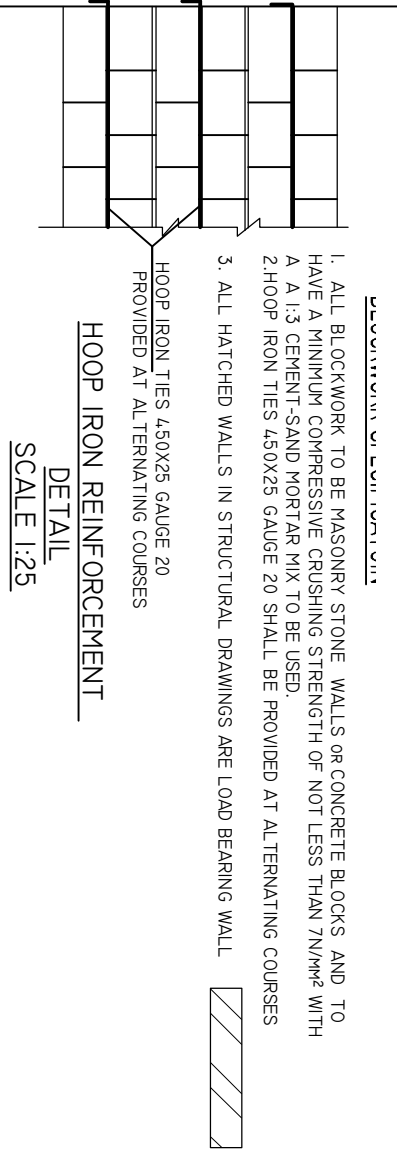
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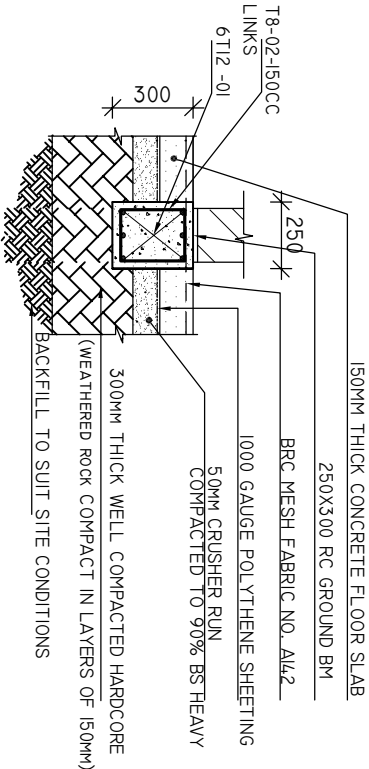


FOUNDATION/GROUND FLOOR PLAN LAYOUT
250X300MM GROUND BEAM
SCALE 1:50

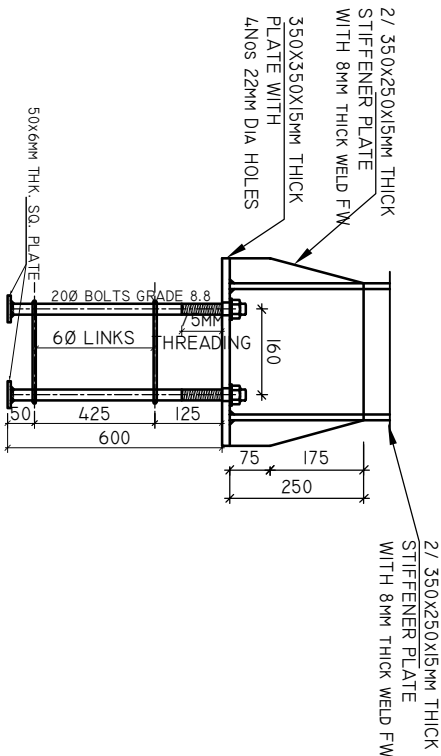
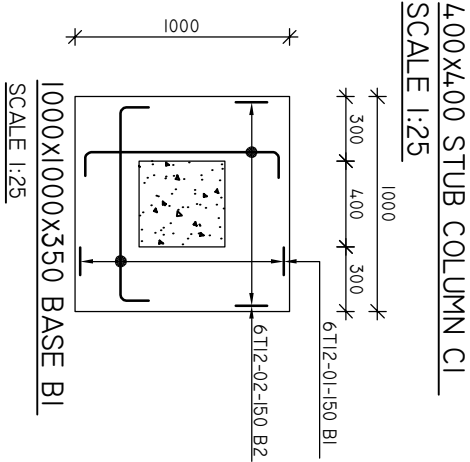
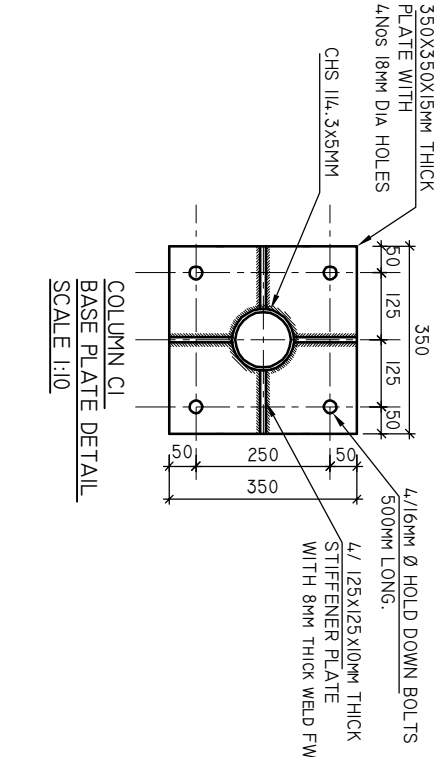
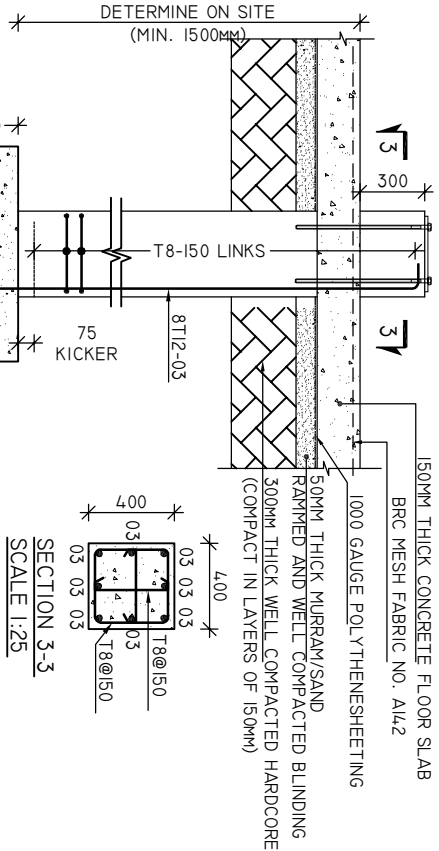


HOOP IRON REINFORCEMENT
DETAIL
SCALE 1:25

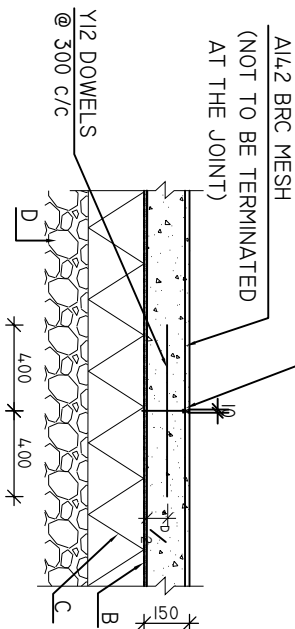
TYPICAL GROUND BM DETAIL
SCALE 1:20



SCHEDULE OF FOUNDATION/ GROUND FLOOR STRUCTURAL MEMBERS			
MARKS	SIZES	QUANTITIES	REINFORCEMENT
SLABS	150MM THICK SOLID ON COMPACTED FILL	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS
COLUMNS	CHS 114.3x5MM ON 400X400 RC STUB COL	8 NOS	REFER TO DETAILS
C1	203x102 UB 23	8 NOS	REFER TO DETAILS
C2	400X400 RC STUB COL	8 NOS	REFER TO DETAILS
FOUNDATION PAD AND STRIP FOOTINGS			
BASE BI	1000X1000X350	16 NOS	REFER TO DETAILS
STRIP FOOTING	600X200MM THK	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS

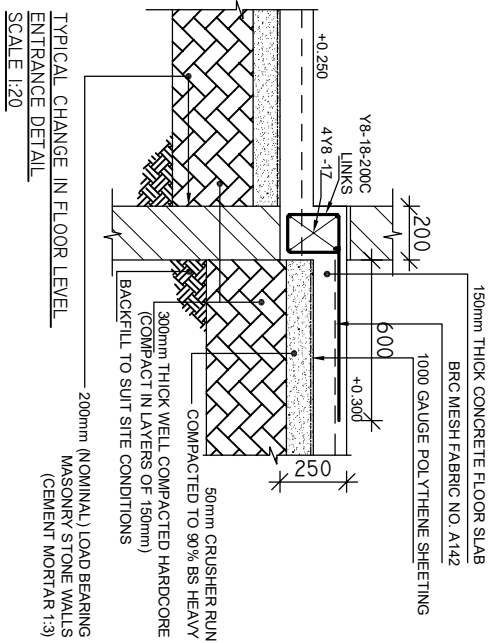
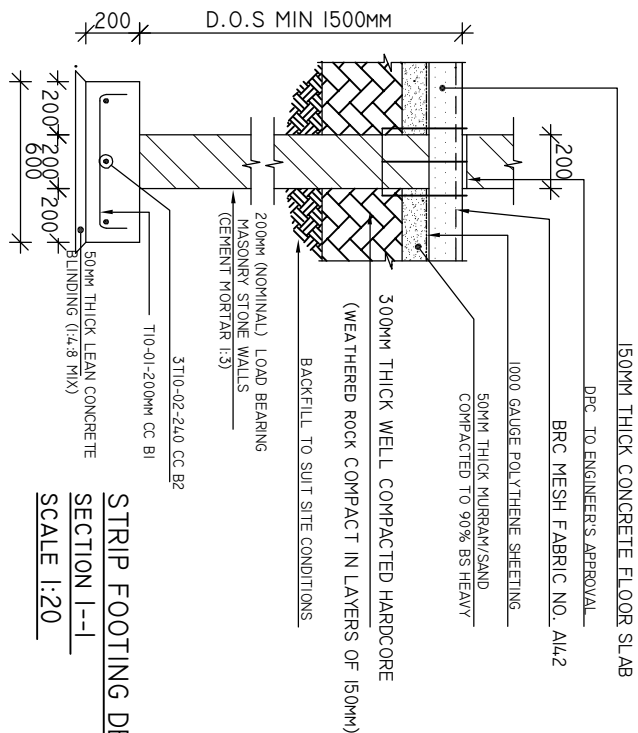
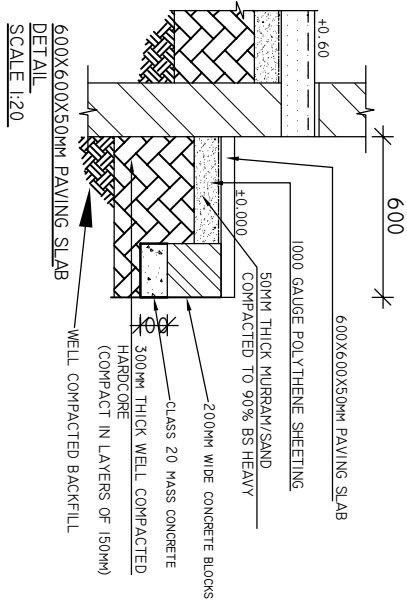
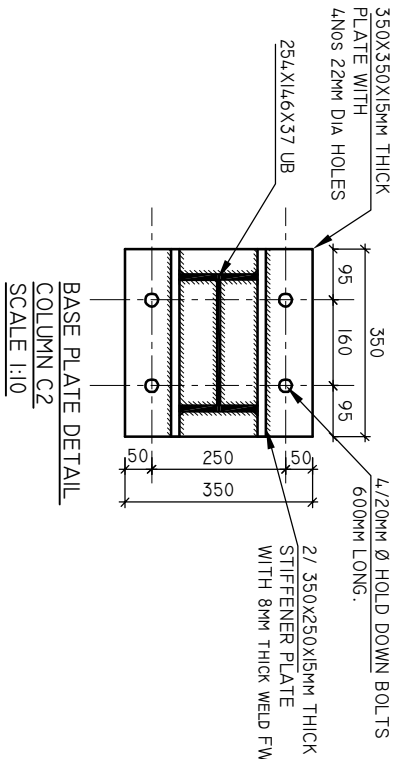


10x20mm GROOVE WITH
POLYSULPHIDE SEALANT OR
EQUIVALENT APPROVED.



TYP. CONSTRUCTION JOINT
DETAIL AT MAX. 6.0M CENTRES.
SCALE 1:20

- LEGEND:**
- A - 150mm THICK GROUND SLAB CLASS 20 CONCRETE
 - B - 50mm CRUSHER RUN
 - C - 1000G POLYTHENE D.P.M.
 - D - MIN. 300mm THICK 300mm THICK WELL COMPACTED HARDCORE



UNOPS

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UNOPS BUILDING, UN LANE,
OFF UN AVENUE P.O. BOX 783,
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HEALTH FACILITY JOJOIMA
BLOCK A-
ENTRANCE BUILDING

DRAWING TITLE
STUB COLUMN, COLUMN BASES,
STRIP FOOTING AND ENTRANCES
TYPICAL SECTION DETAILS

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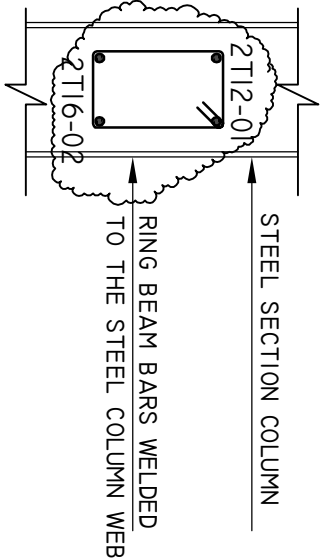
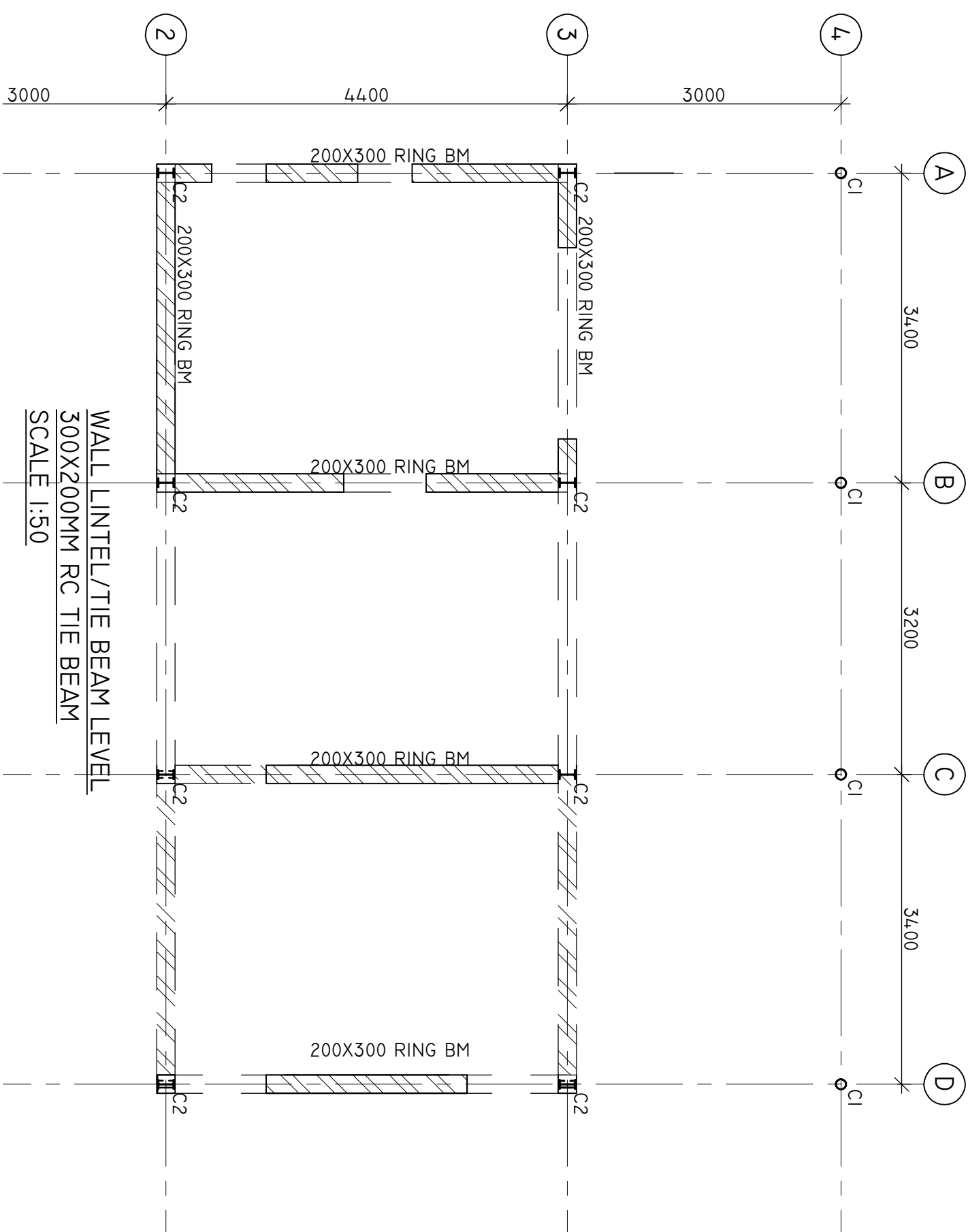
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RING BEAM PLAN LAYOUT AND BEAM RC DETAILS

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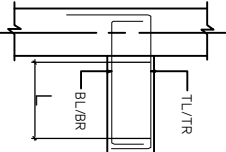
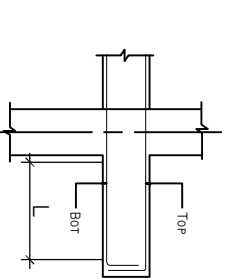
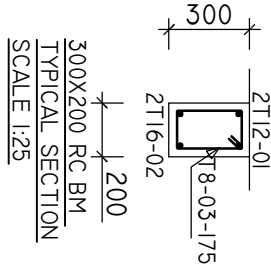
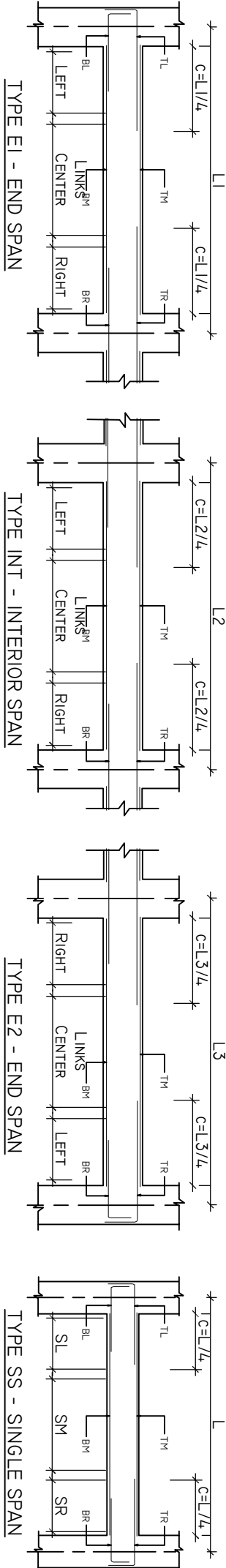
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CONCRETE BEAM TO STEEL COLUMN CONNCTION
SCALE 1:10



TYPE CA - CANTILEVER TYPE CB - CANTILEVER



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UNOPS BUILDING, UN LANE,
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BLOCK A-
ENTRANCE BUILDING

DRAWING TITLE
ROOF PLAN LAYOUT
GENERAL STEEL ARRANGEMENT

DESIGN SERVICES UNIT

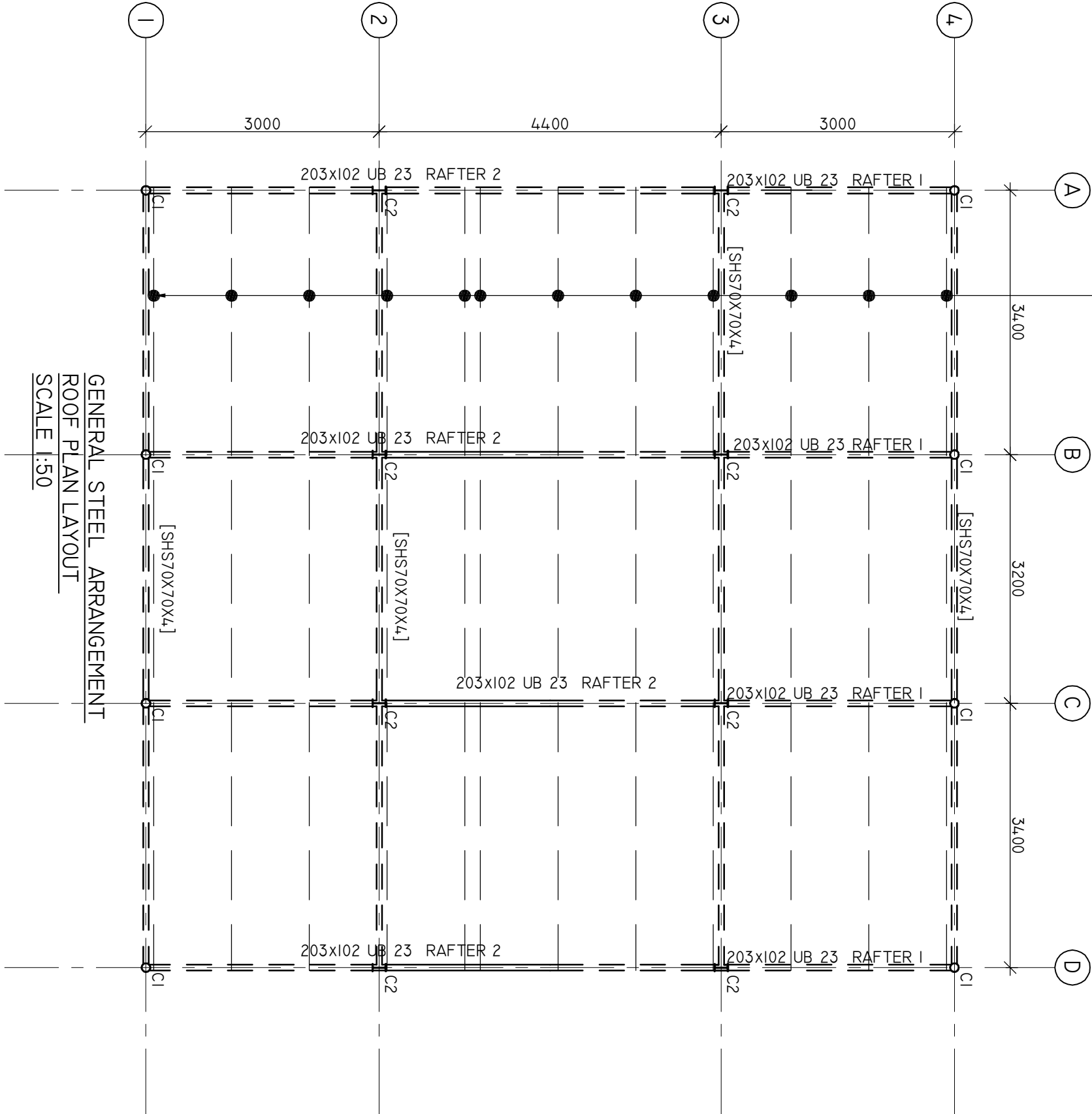
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150X90X24MM
CHANNEL PURLINS.
@1000 C/C MAX. SPACING



- NOTES PORTAL FRAME
1. 150X90X24MM CHANNEL PURLINS.
 2. PURLIN SPACING (1000mm)
 3. RAFTER-203X102X23 UB
 4. TIE BEAM 70X70X4MM
 5. COLUMN 203X102X23 UB
 6. SLOPE 17 DEGREES

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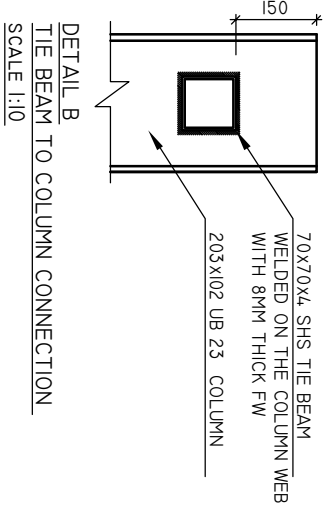
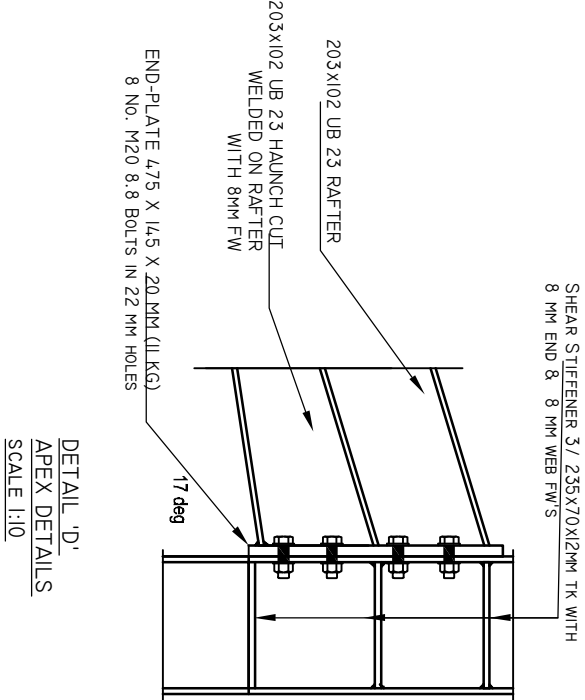
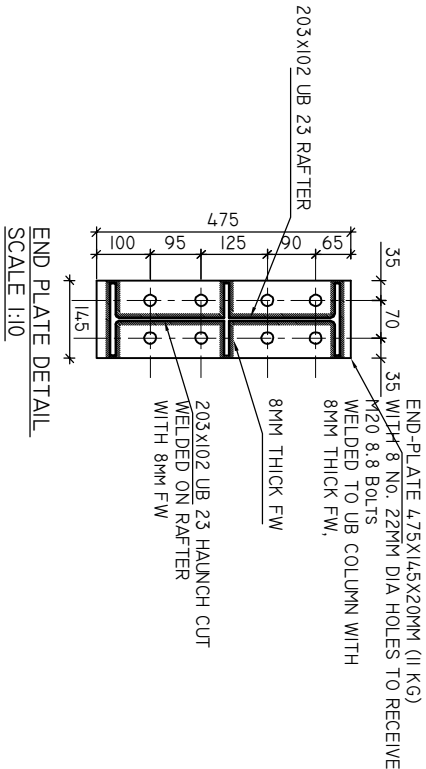
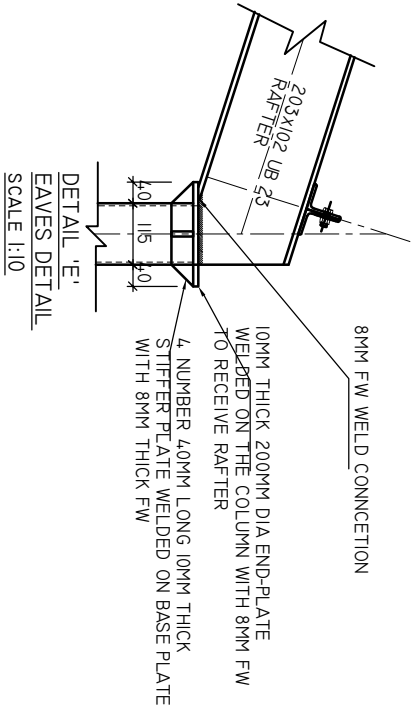
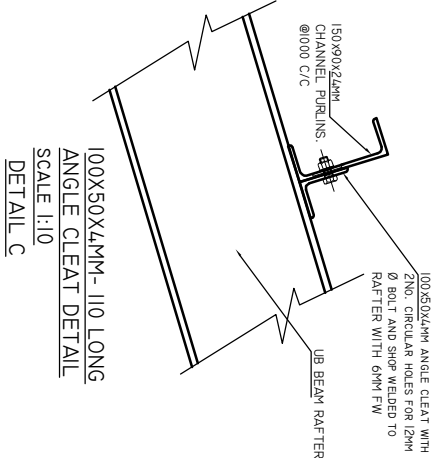
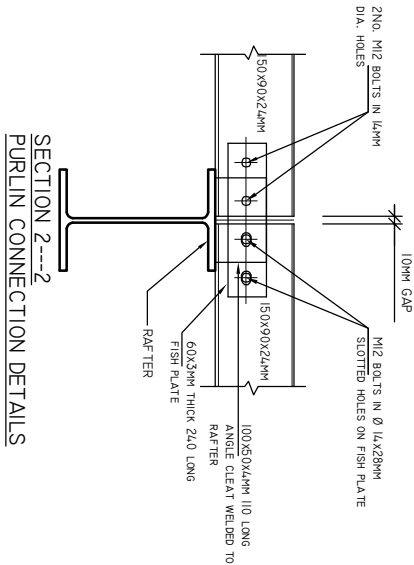
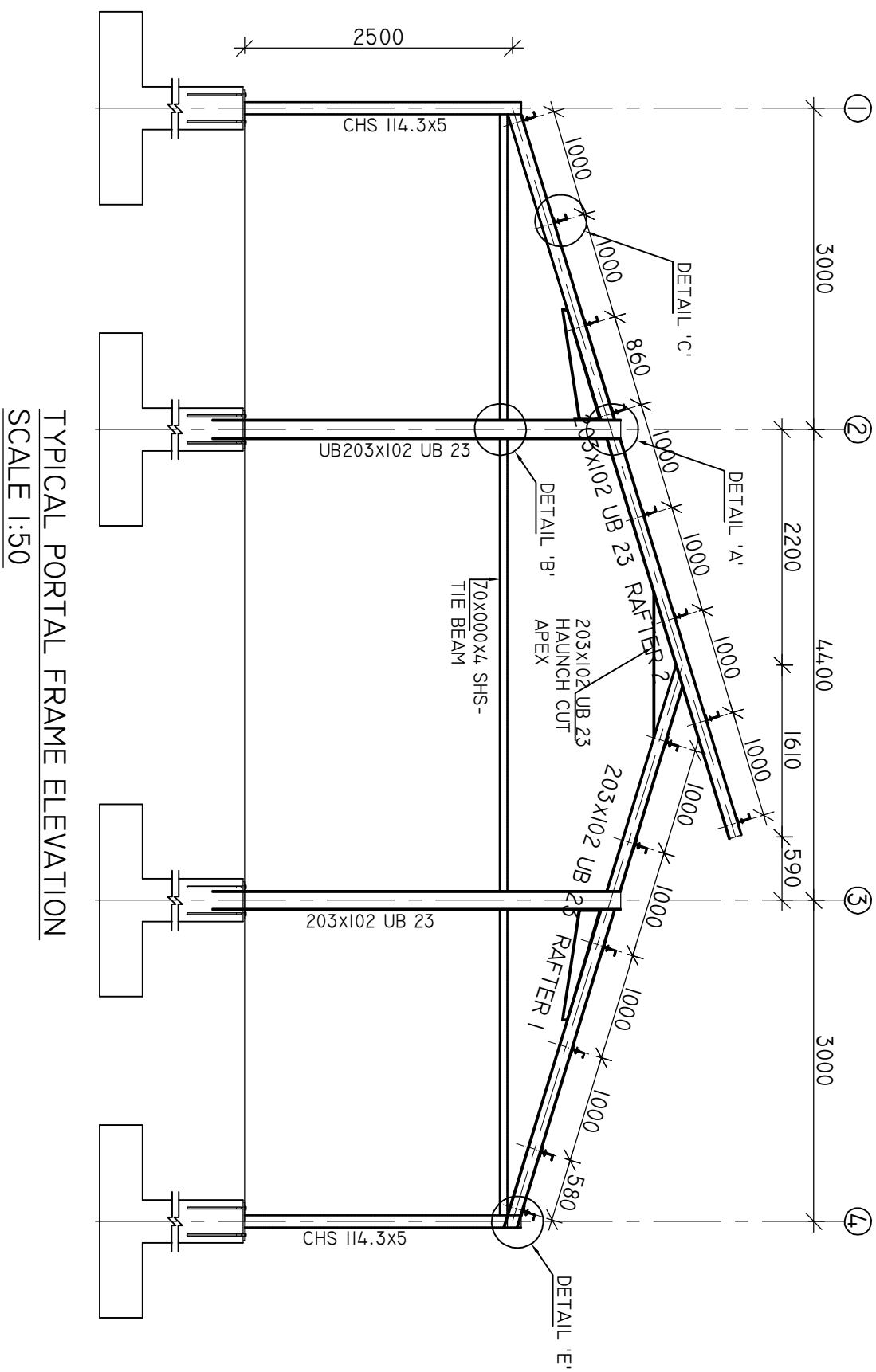
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DRAWING TITLE
PORTAL FRAME TYPICAL SECTION AND CONNECTION DETAILS

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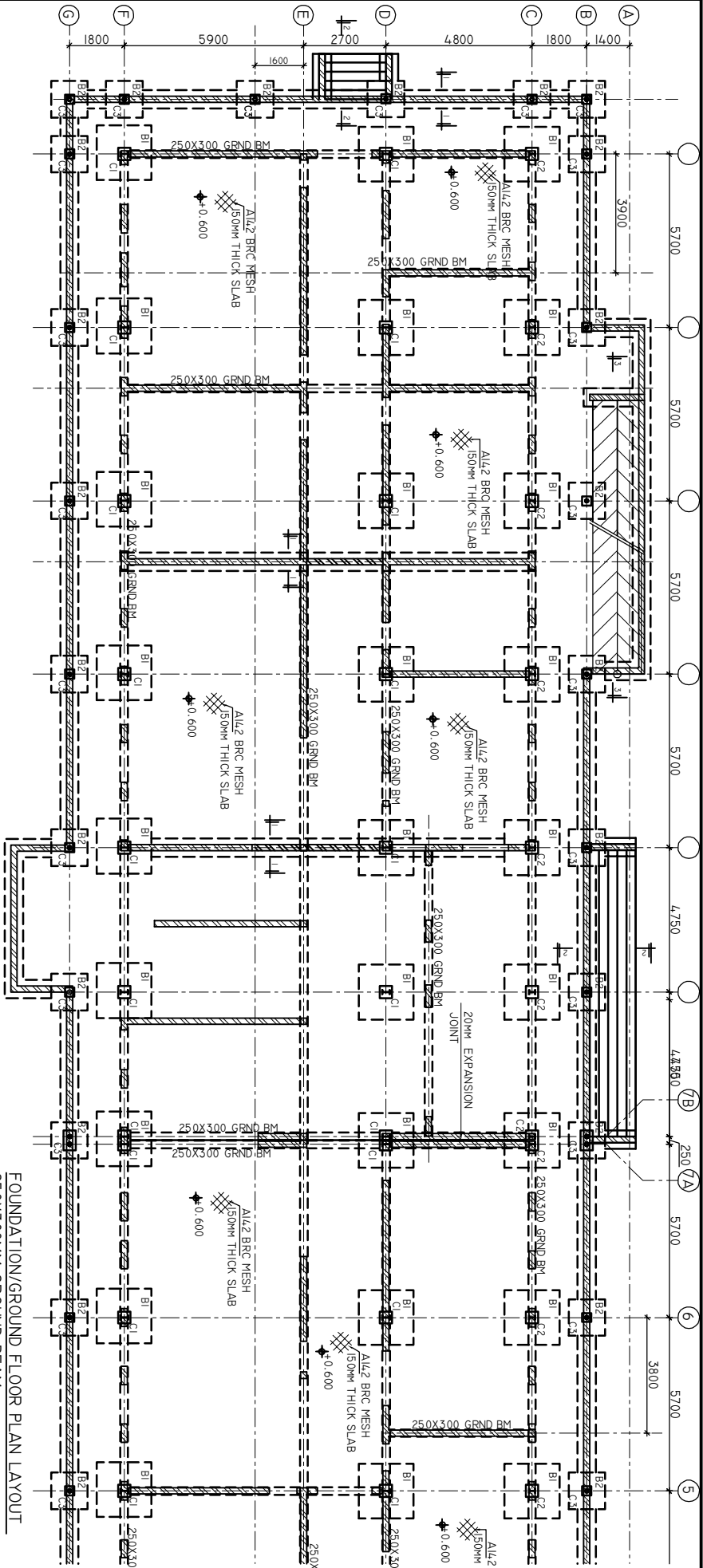
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BLOCK B-
ADMIN & CONSULTATION
BUILDING

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FOUNDATION/GROUND PLAN LAYOUT

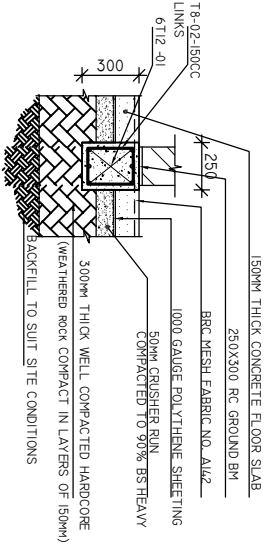
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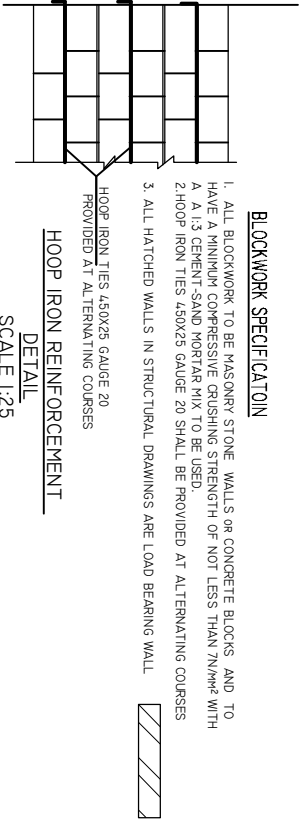
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FOUNDATION/GROUND FLOOR PLAN LAYOUT
250X300MM GROUND BEAM
SCALE 1:100

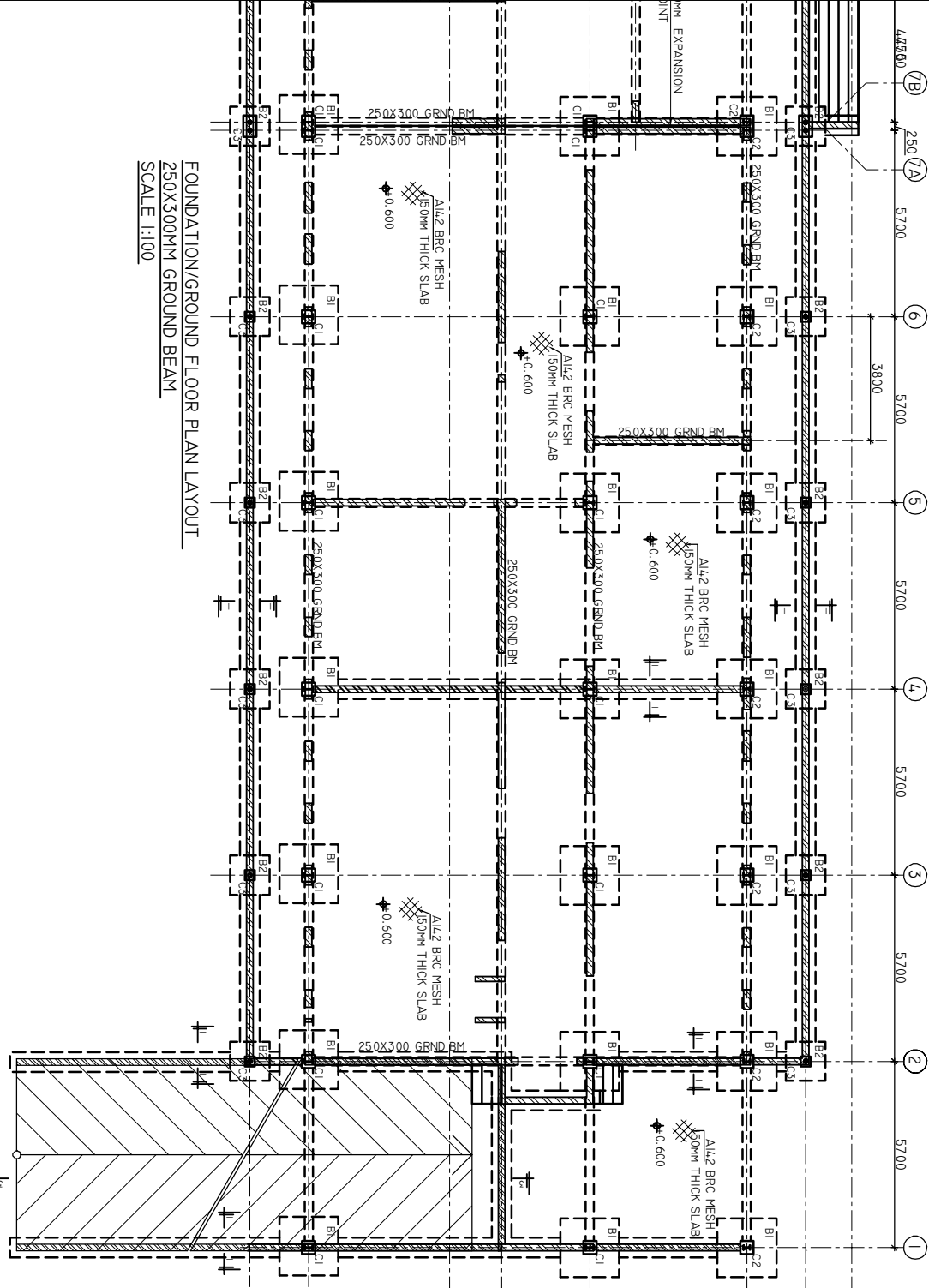


TYPICAL GROUND BM DETAIL
SCALE 1:20



1. ALL BLOCKWORK TO BE MASONRY STONE, WALLS OR CONCRETE BLOCKS AND TO HAVE A MINIMUM COMPRESSIVE CRUSHING STRENGTH OF NOT LESS THAN 7N/MM² WITH A 1:3 CEMENT SAND MORTAR MIX TO BE USED.
2. HOOP IRON TIES 450X25 GAUGE 20 SHALL BE PROVIDED AT ALTERNATING COURES
3. ALL HATCHED WALLS IN STRUCTURAL DRAWINGS ARE LOAD BEARING WALL

SCALE 1:25



FOUNDATION/GROUND FLOOR PLAN LAYOUT
250X300MM GROUND BEAM
SCALE 1:100

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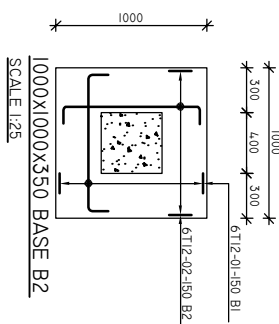
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BLOCK B-
ADMIN & CONSULTATION
BUILDING

DRAWING TITLE
RING BEAM PLAN LAYOUT
AND
BEAM RC DETAILS

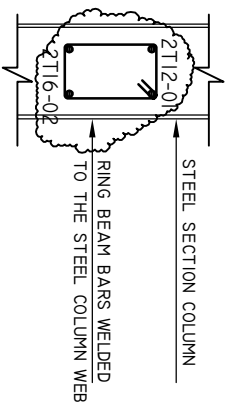
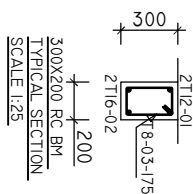
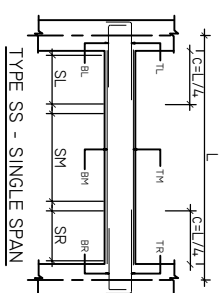
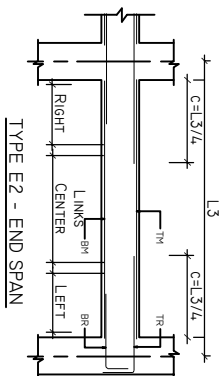
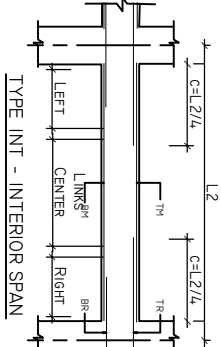
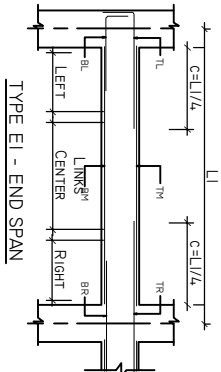
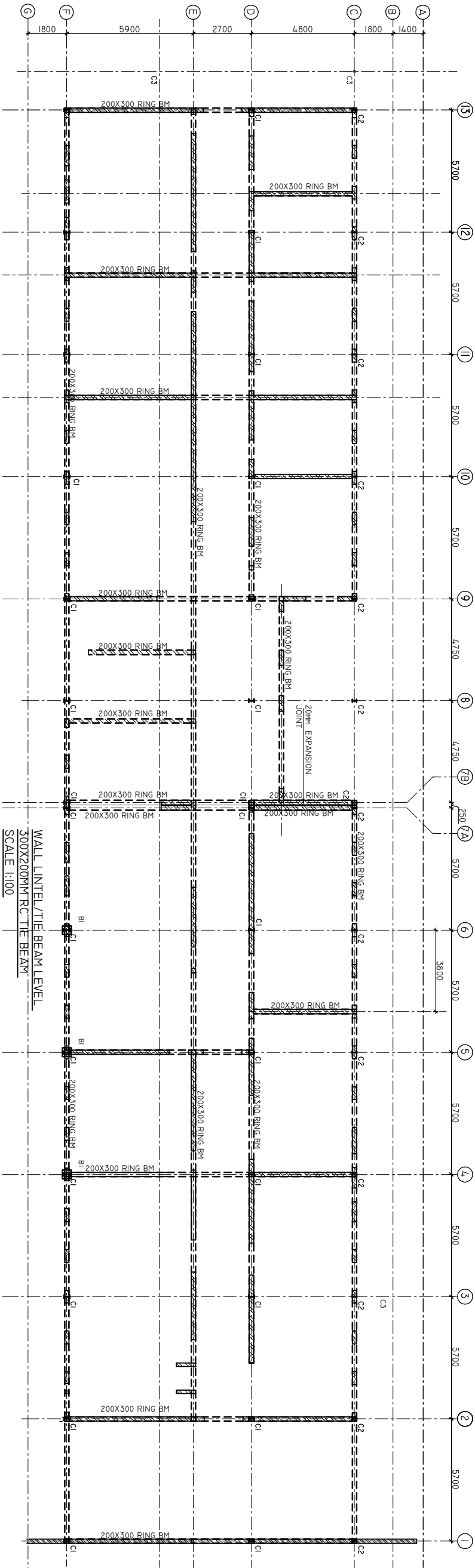
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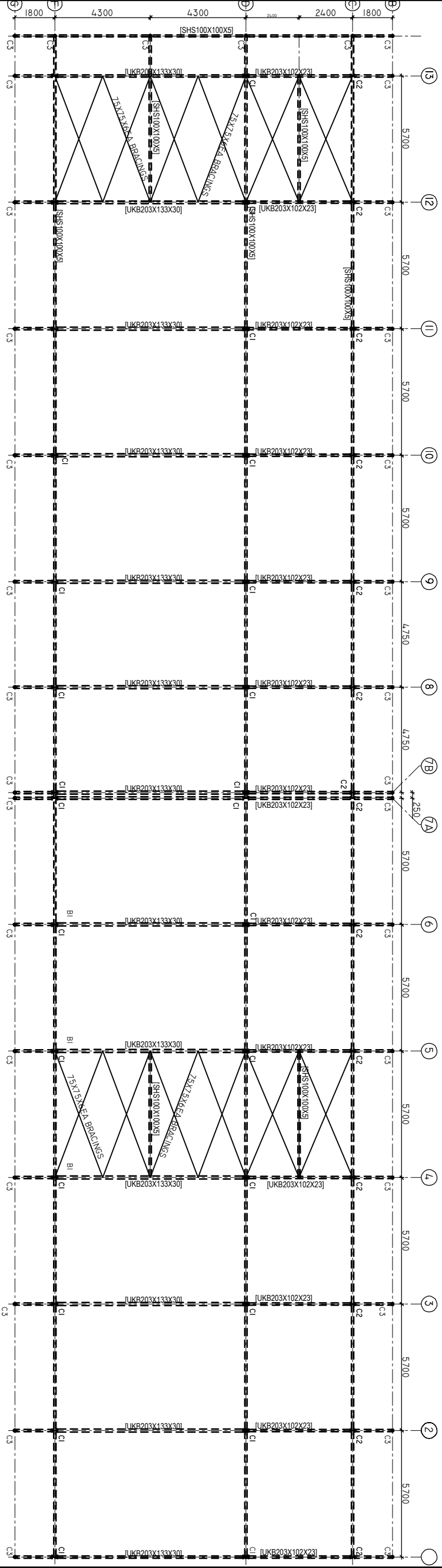
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GENERAL STEEL ARRANGEMENT

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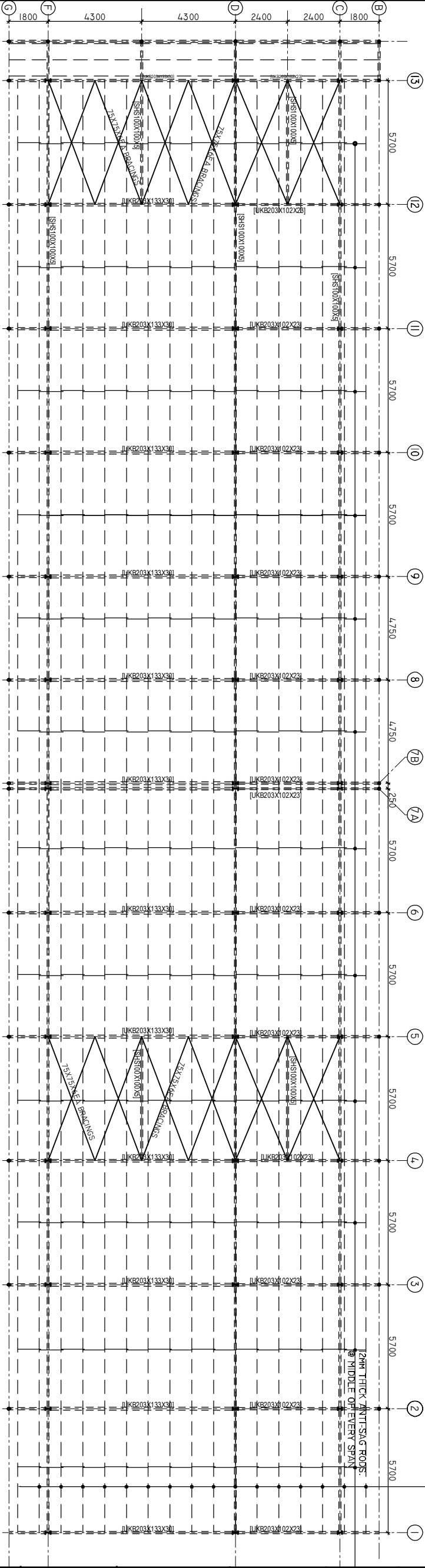
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GENERAL STEEL ARRANGEMENT
ROOF PLAN LAYOUT
SCALE 1:100



GENERAL STEEL ARRANGEMENT
ROOF PLAN LAYOUT
SCALE 1:100

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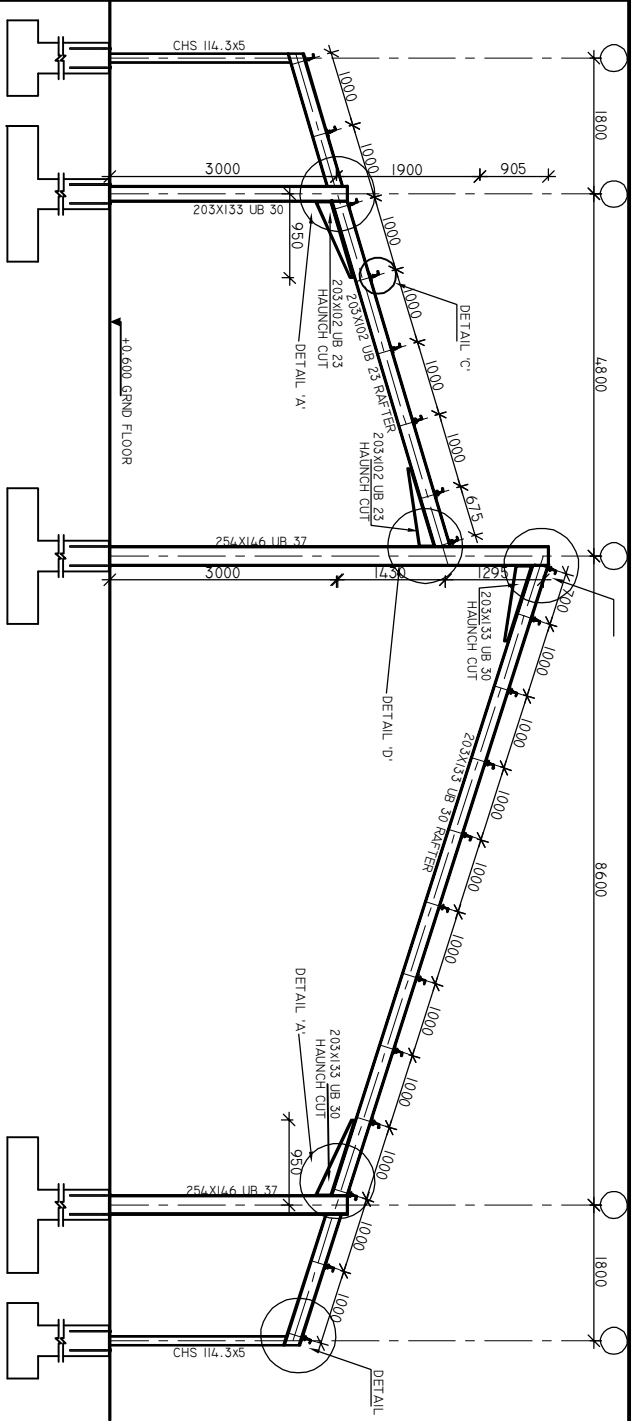
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PORTAL FRAME TYPICAL SECTION AND CONNECTION DETAILS

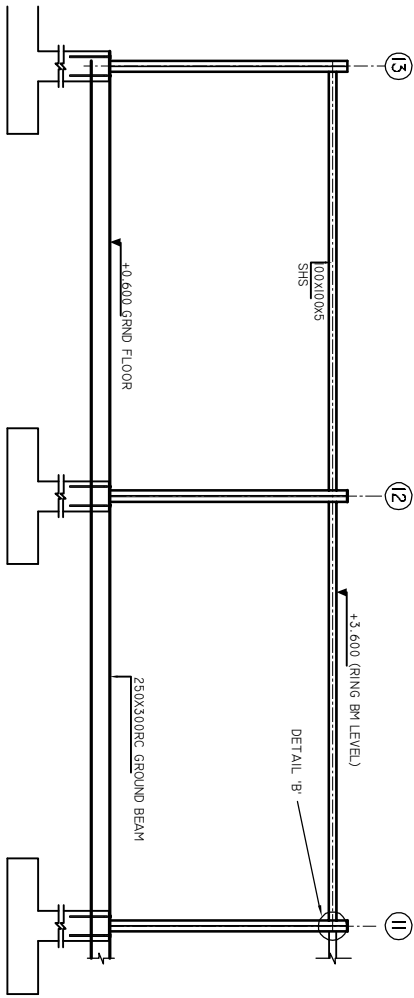
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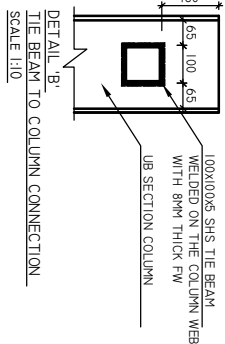
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TYPICAL PORTAL FRAME SECTION
SCALE 1:50

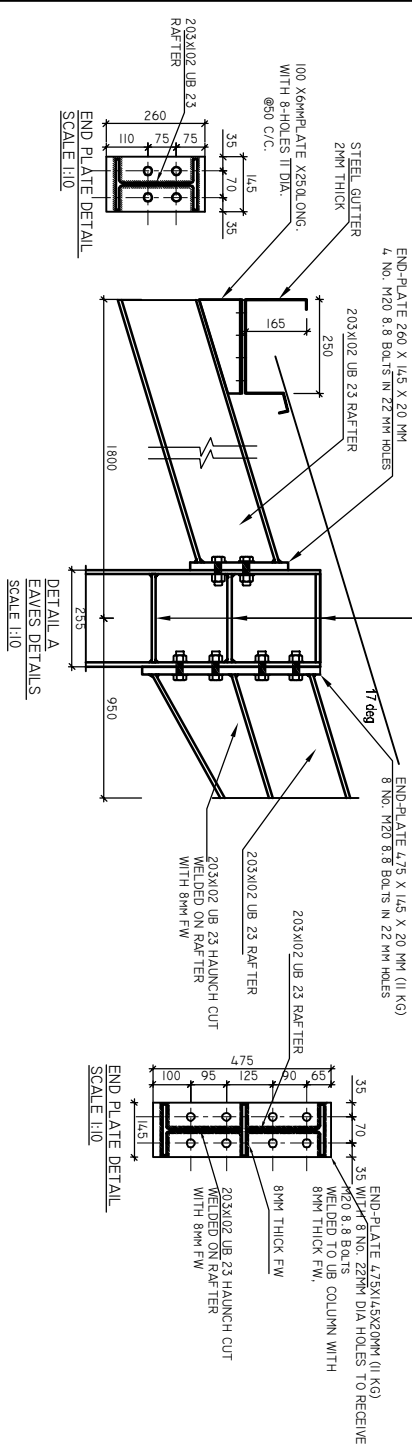


TYPICAL PORTAL FRAME ELEVATION
COLUMN TIE BEAM
SCALE 1:50



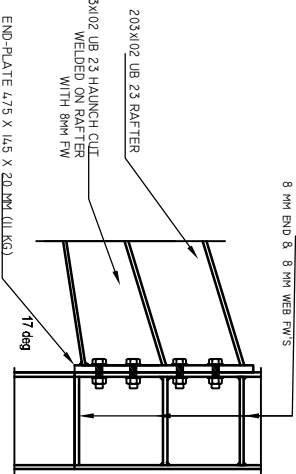
DETAIL 'B' TIE BEAM TO COLUMN CONNECTION
SCALE 1:10

SHEAR STIFFENER 3/2 215x70x12MM TK WITH 8 MM END & 8 MM WEB F.W.S

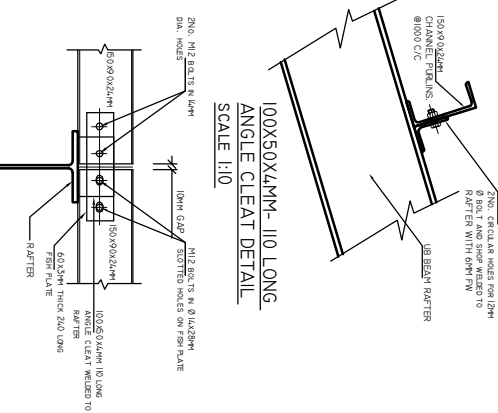


END PLATE DETAIL
SCALE 1:10

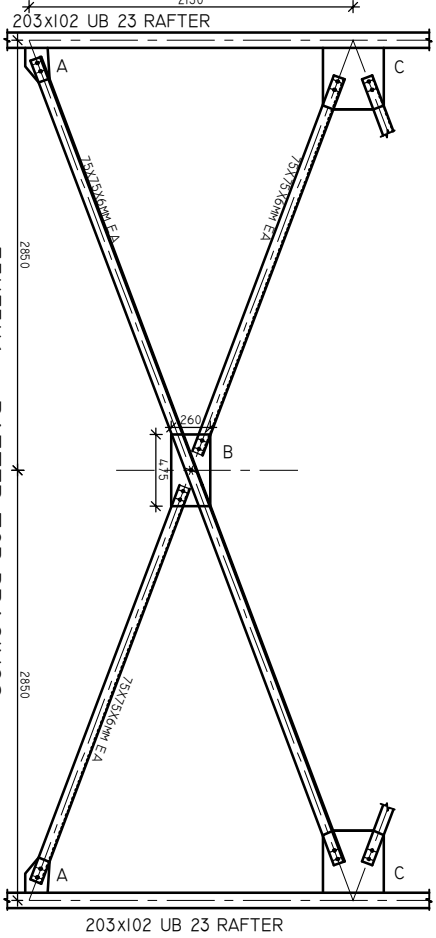
DETAIL 'D' APEX DETAILS
SCALE 1:10



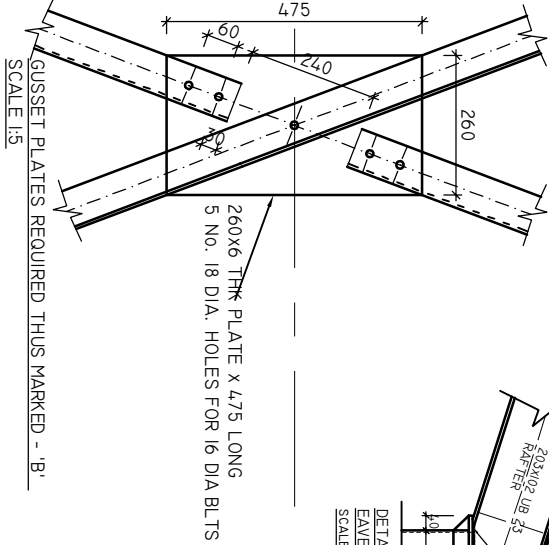
TYPICAL DETAIL PURLIN CONNECTION DETAILS
DETAIL 'C' SCALE 1:10



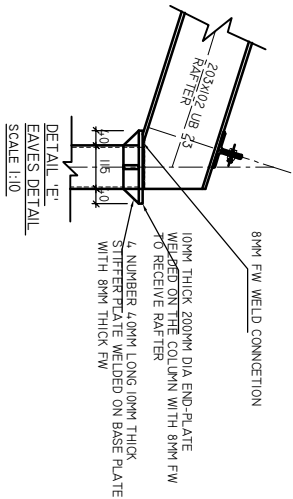
100X50X4MM-110 LONG ANGLE CLEAT DETAIL
SCALE 1:10



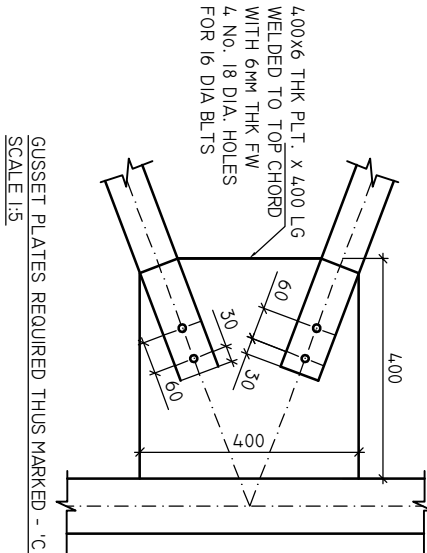
75X75X6MM RAFTER TOP BRACINGS
REQUIRED THUS
SCALE 1:25



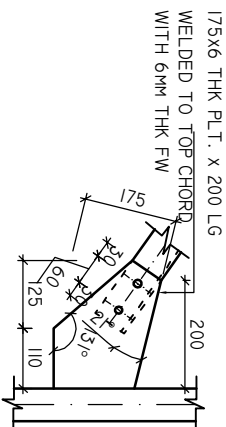
GUSSET PLATES REQUIRED THUS MARKED - 'B'
SCALE 1:5



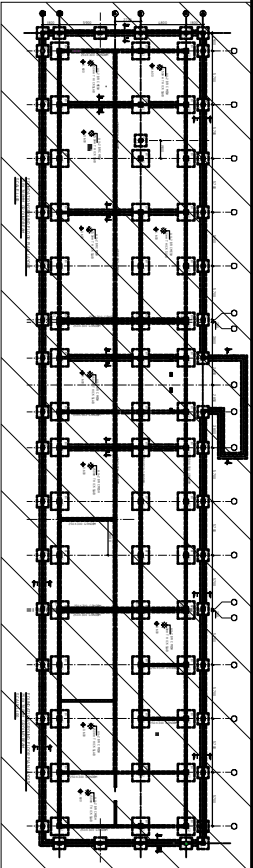
DETAIL 'E' EAVES DETAILS
SCALE 1:10



GUSSET PLATES REQUIRED THUS MARKED - 'C'
SCALE 1:5



GUSSET PLATES REQUIRED THUS MARKED - 'A'
SCALE 1:5



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PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK C-
MATERNITY & OPERATING THEATRE
BUILDING

DRAWING TITLE
FOUNDATION/GROUND PLAN LAYOUT

DESIGN SERVICES UNIT		SIGN	DATE
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3. ALL HATCHED WALLS IN STRUCTURAL DRAWINGS ARE LOAD BEARING WALL



STRUCTURAL MEMBERS				
MARKS	SIZES	QUANTITIES	REINFORCEMENT	
SLABS				
GROUND SLAB	150MM THICK SOLID ON COMPACTED FILL	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS	
COLUMNS				
'C1'	250x250x637 UB ON 4.00x2.00 RC STUB COL	36 NOS	REFER TO DETAILS	
'C2'	203x133 UB 30 ON 4.00x2.00 RC STUB COL	18 NOS	REFER TO DETAILS	
'C3'	CHS 114.36MM ON 4.00x2.00 RC STUB COL	42 NOS	REFER TO DETAILS	
FOUNDATION PAD AND STRIP FOOTINGS				
BASE B1	1500x1500x400	52 NOS	REFER TO DETAILS	
BASE B2	1000x1000x350	42 NOS	REFER TO DETAILS	
STRIP FOOTING	600x200MM TAK	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS	



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PROJECT
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BLOCK C-
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BUILDING

DRAWING TITLE

STUB COLUMN, COLUMN BASES,
STRIP FOOTING AND ENTRANCES
TYPICAL SECTION DETAILS

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PROPOSED MATERNITY HEALTH FACILITY JOJOIMA BLOCK C- MATERNITY & OPERATING THEATRE BUILDING

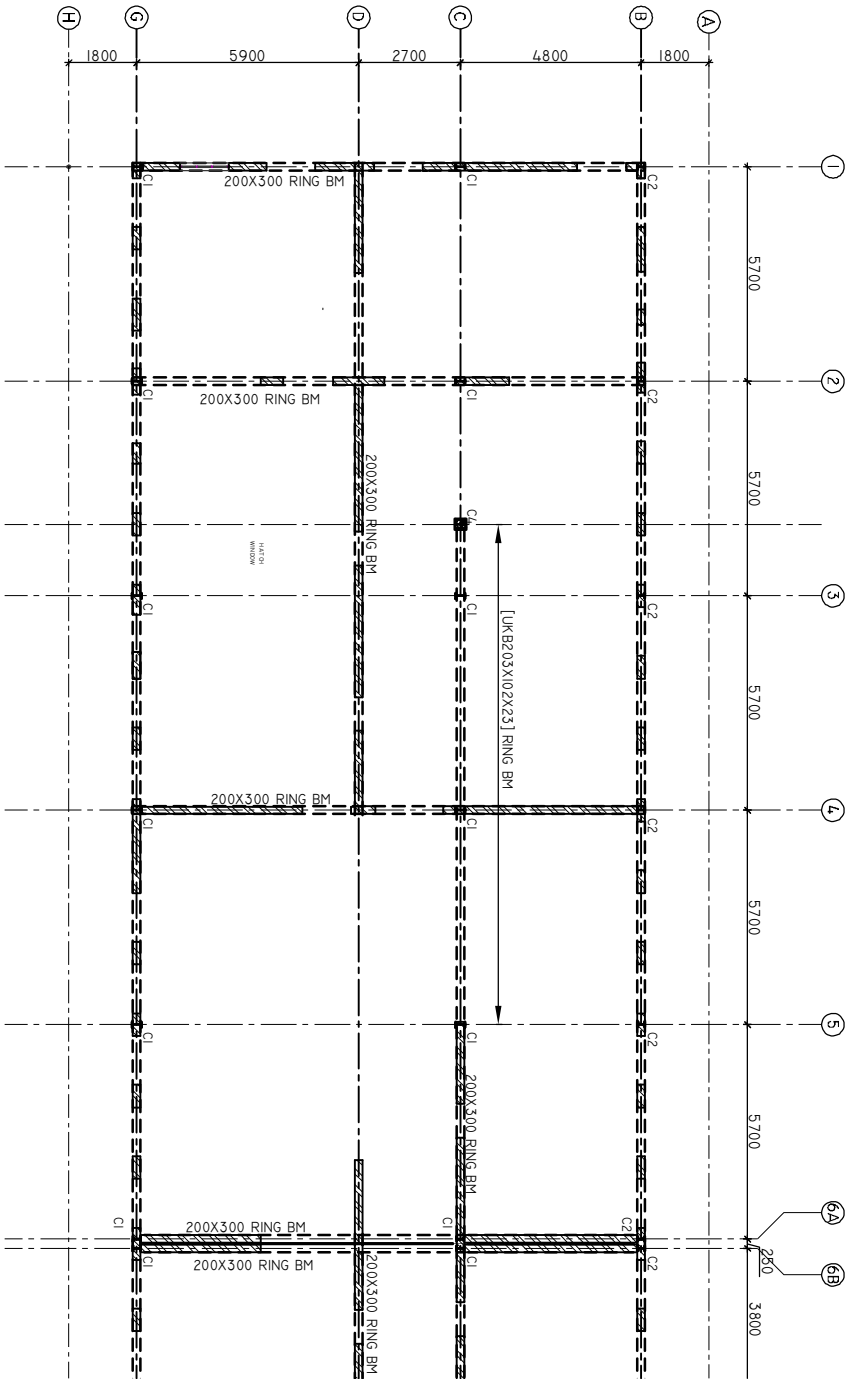
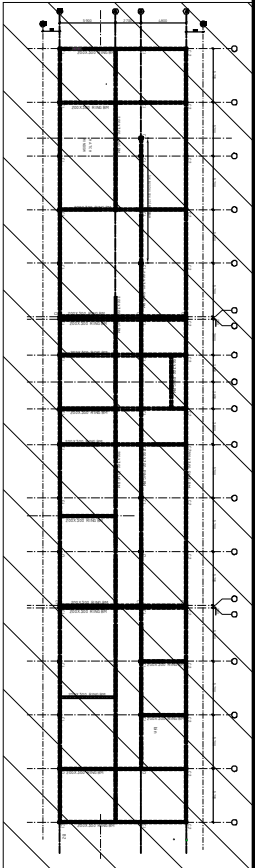
DRAWING TITLE
RING BEAM PLAN LAYOUT AND BEAM RC DETAILS

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C-SR-003	AS SHOWN	A-3

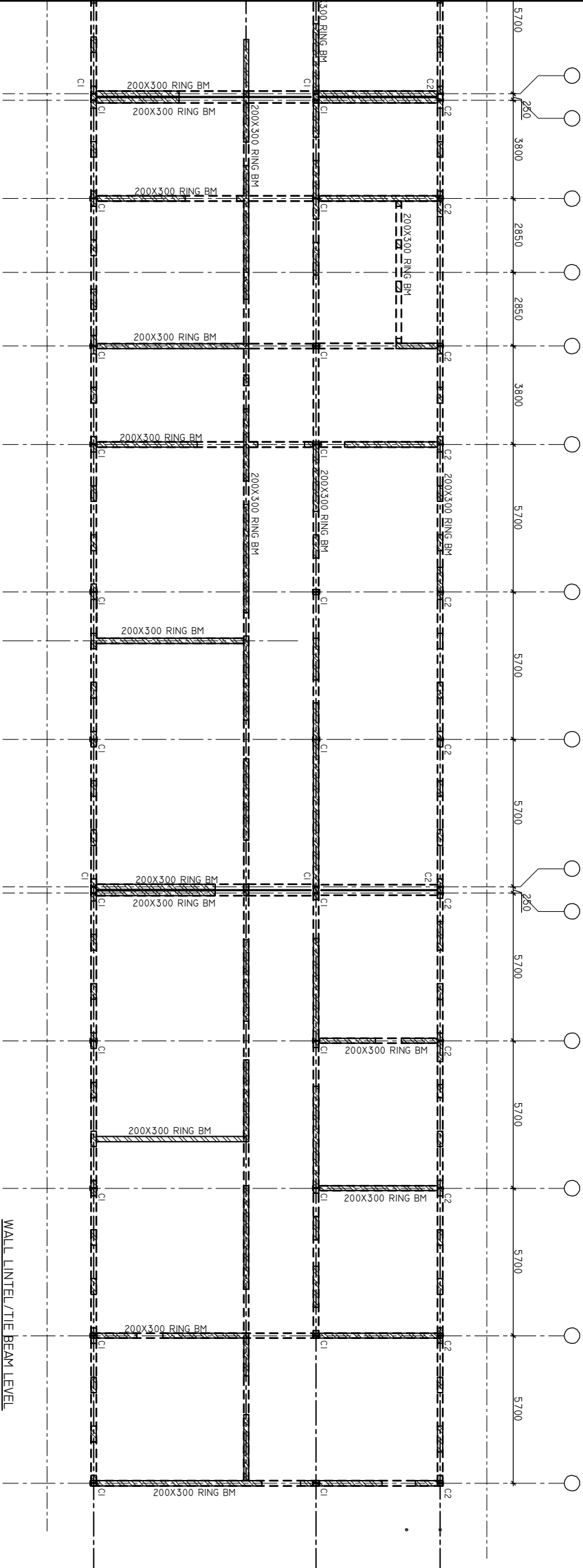
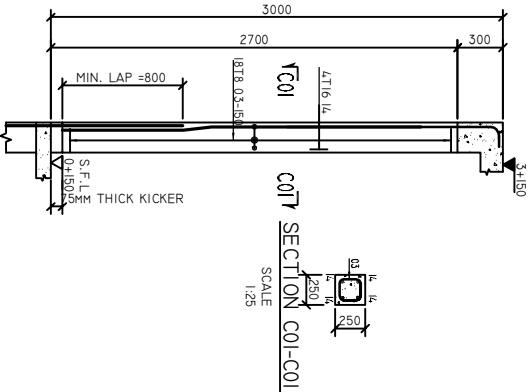
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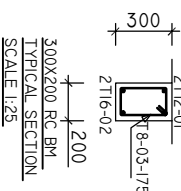
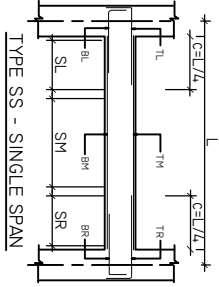
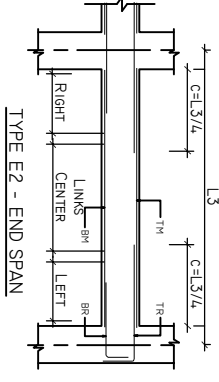
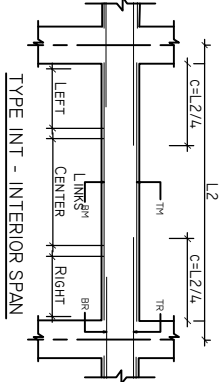
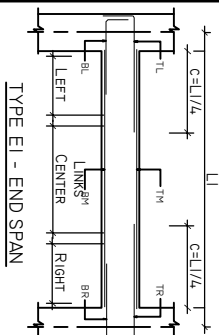


WALL LINTEL/TIE BEAM LEVEL
300X200MM RC TIE BEAM
SCALE 1:100

250X250 COL. C4 (ING)
SCALE 1:25



WALL LINTEL/TIE BEAM LEVEL
300X200MM RC TIE BEAM
SCALE 1:100





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PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK C-
MATERNITY & OPERATING THEATRE
BUILDING

DRAWING TITLE

GENERAL STEEL ARRANGEMENT

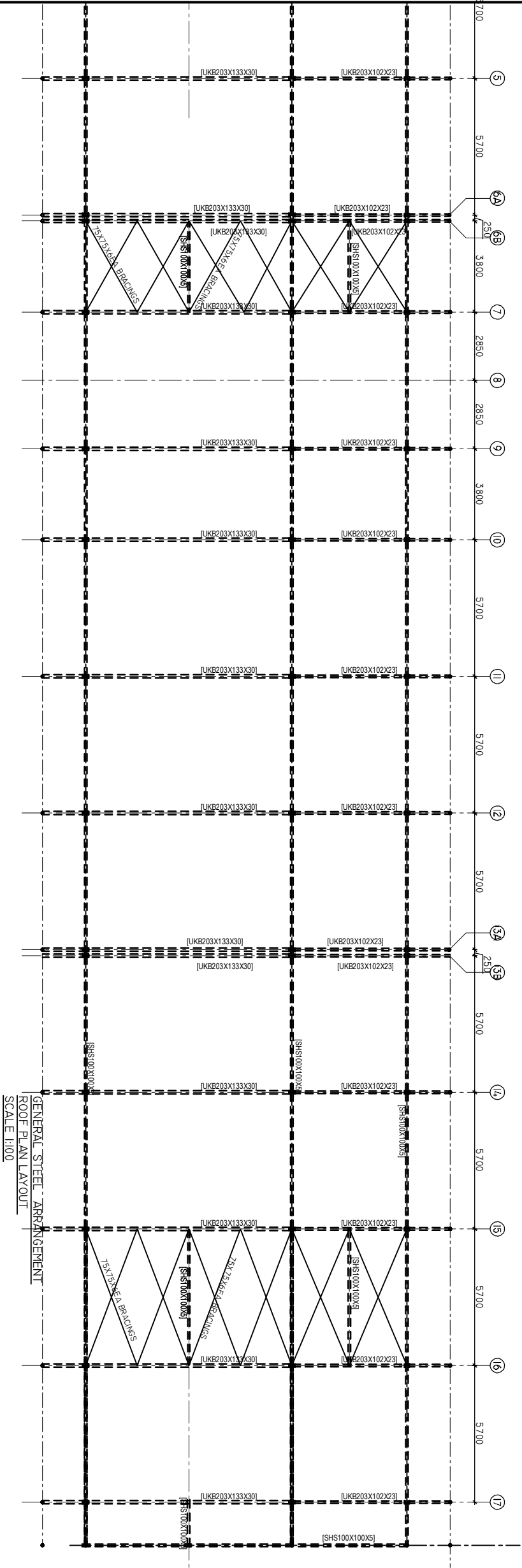
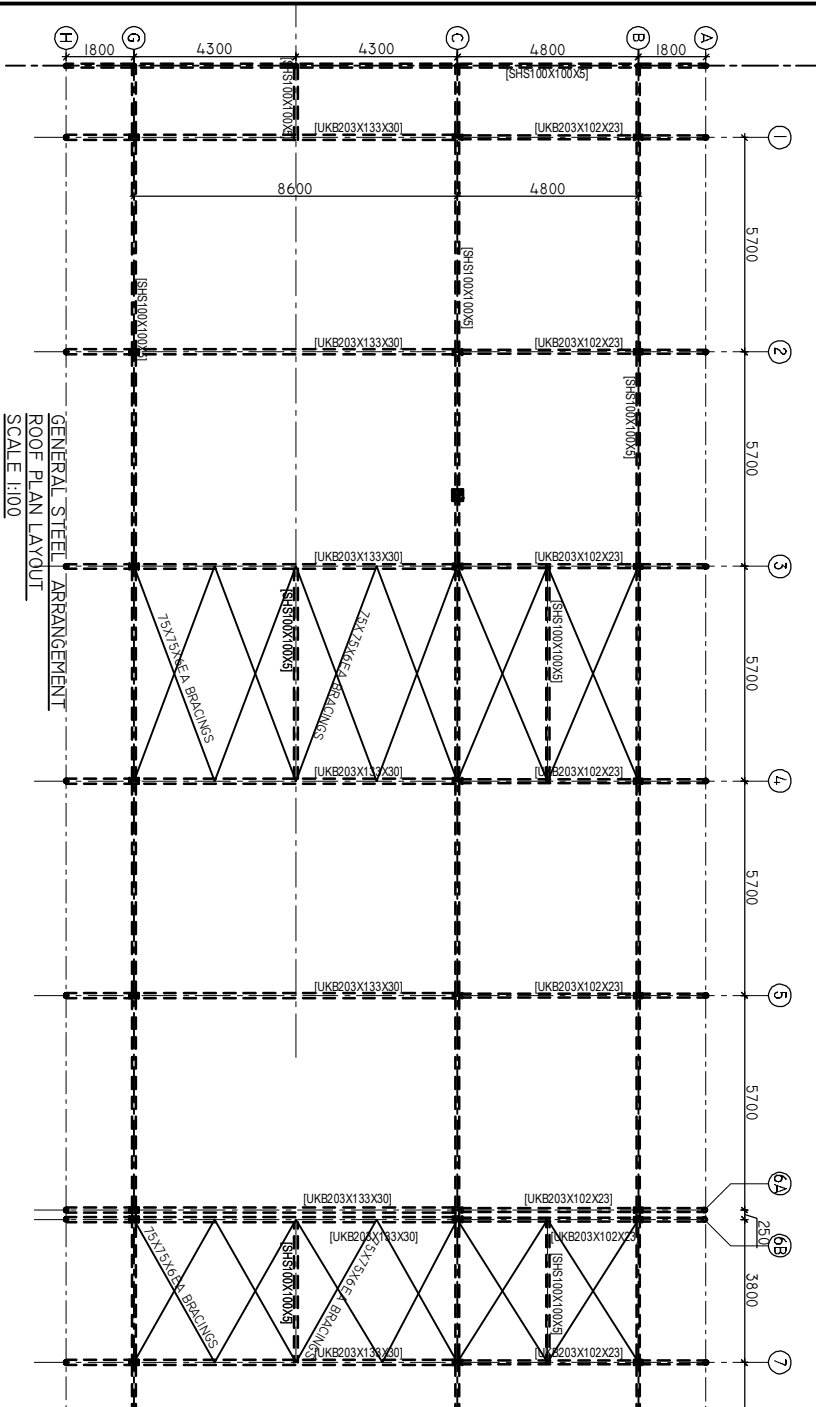
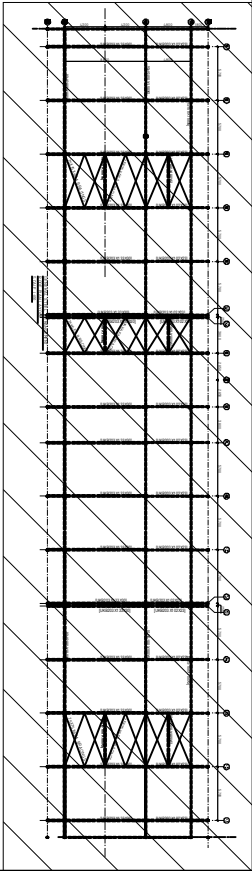
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BLOCK C-
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BUILDING

DRAWING TITLE

GENERAL STEEL ARRANGEMENT

DESIGN SERVICES UNIT

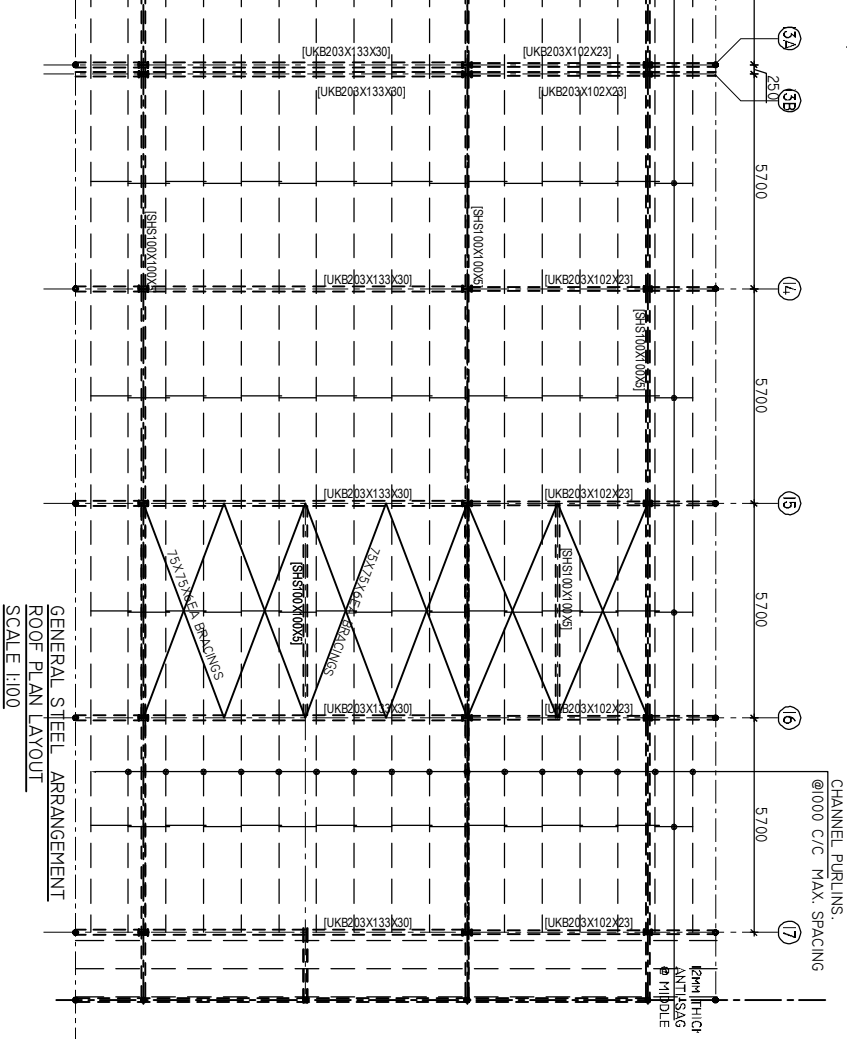
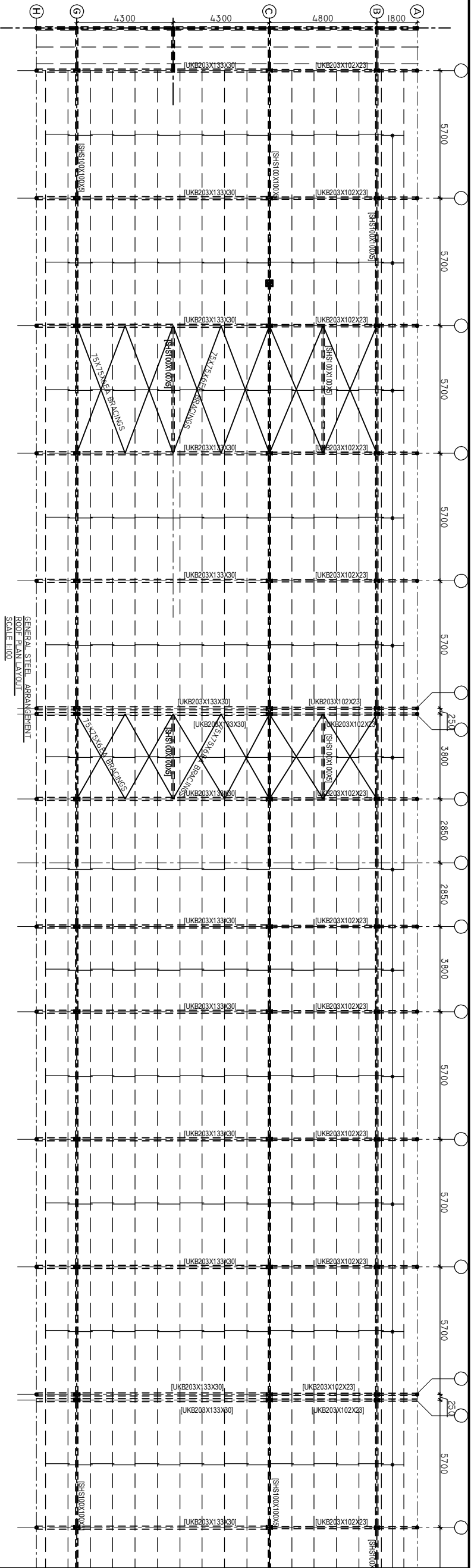
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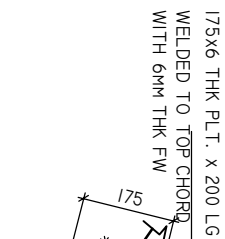
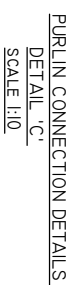
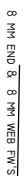
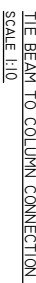
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GUSSET PLATES REQUIRED THUS MARKED - 'A'
SCALE 1:5

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PROJECT
**PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK D-
LAUNDRY AND CAFETERIA
BUILDING**

DRAWING TITLE
**FOUNDATION /GROUND FLOOR
PLAN LAYOUT**

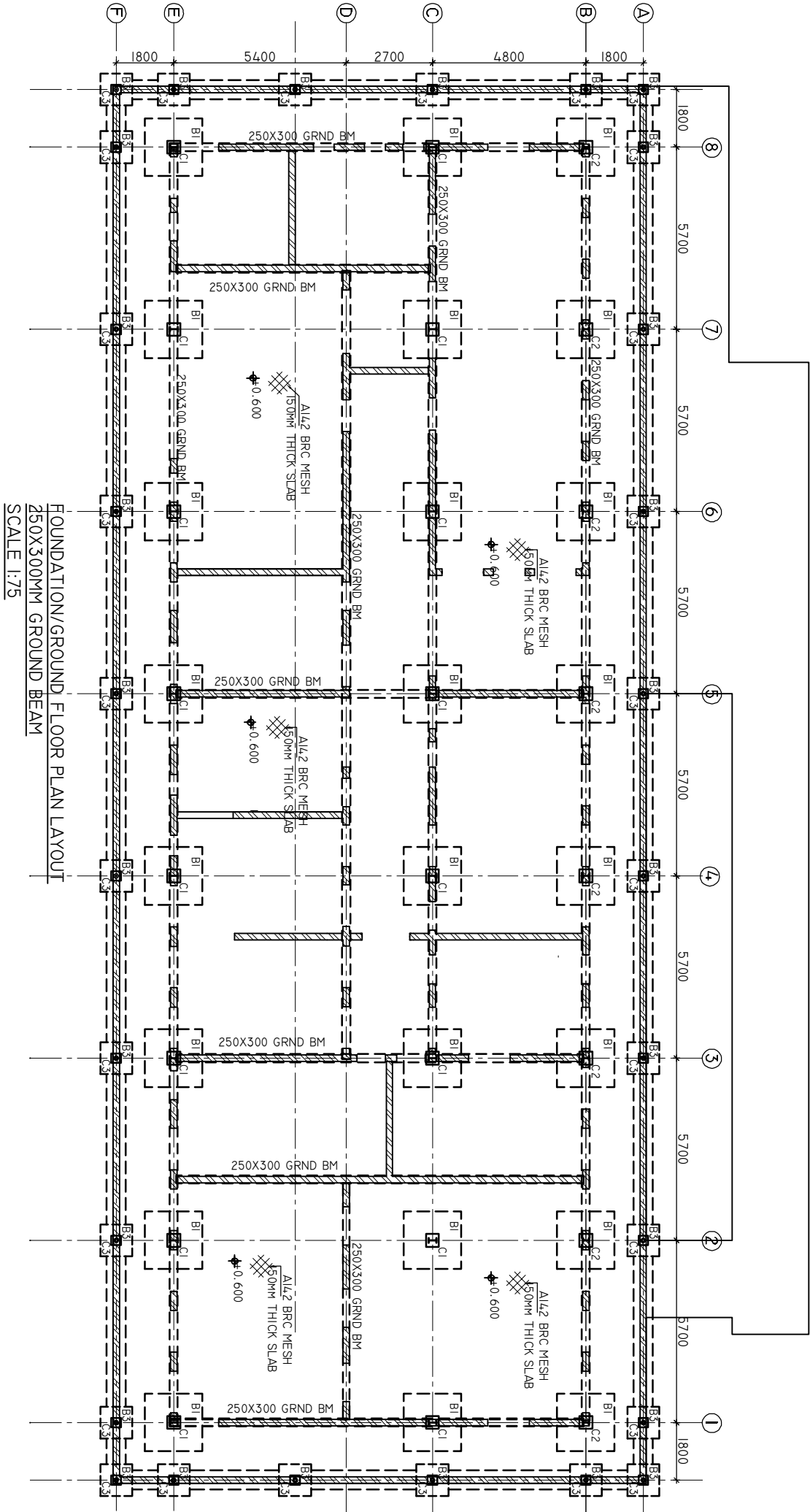
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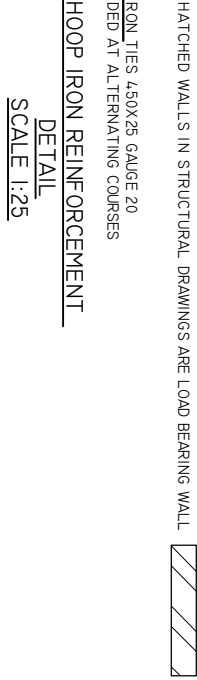
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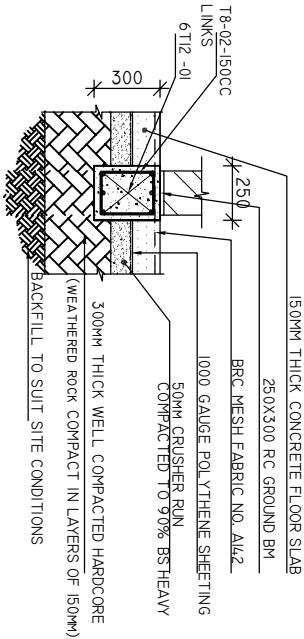


BLOCKWORK SPECIFICATION

1. ALL BLOCKWORK TO BE MASONRY STONE WALLS OR CONCRETE BLOCKS AND TO HAVE A MINIMUM COMPRESSIVE CRUSHING STRENGTH OF NOT LESS THAN 7N/mm² WITH A 1:1.3 CEMENT-SAND MORTAR MIX TO BE USED.
2. HOOP IRON TIES 450X25 GAUGE 20 SHALL BE PROVIDED AT ALTERNATING COURSES
3. ALL HATCHED WALLS IN STRUCTURAL DRAWINGS ARE LOAD BEARING WALL



TYPICAL GROUND BM DETAIL
SCALE 1:20



SCHEDULE OF FOUNDATION/ GROUND FLOOR STRUCTURAL MEMBERS			
MARKS	SIZES	QUANTITIES	REINFORCEMENT
SLABS			
GROUND SLAB	150MM THICK SOLID ON COMPACTED FILL	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS
COLUMNS			
C1	254X146X37 LB ON 400X400 RC STUB COL	16 NOS	REFER TO DETAILS
C2	203X133 LB 30 ON 400X400 RC STUB COL	8 NOS	REFER TO DETAILS
C3	CHS 114. 3x5MM ON 300X300 RC STUB COL	10 NOS	REFER TO DETAILS
FOUNDATION PAD AND STRIP FOOTINGS			
BASE B1	1500X1500X400	24 NOS	REFER TO DETAILS
BASE B3	1000X1000X350	10 NOS	REFER TO DETAILS
STRIP FOOTING	600X200MM THK	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS



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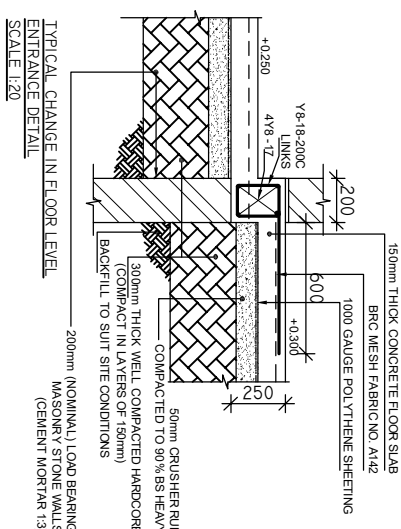
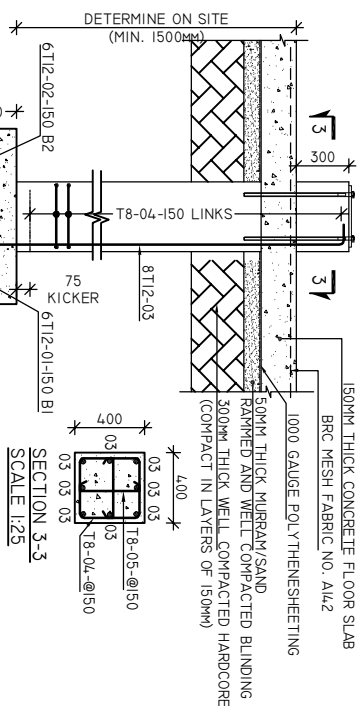
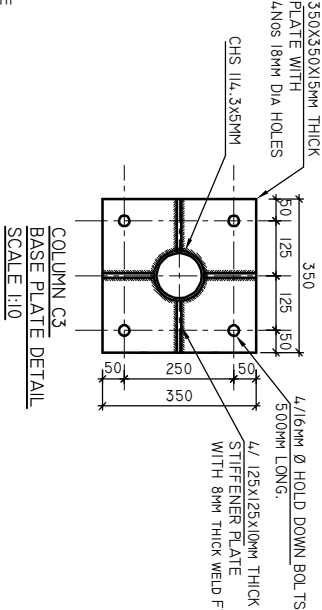
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PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK D-
LAUNDRY AND CAFETERIA
BUILDING

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PROJECT

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HEALTH FACILITY JOJOMIA
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LAUNDRY AND CAFETERIA
BUILDING

DRAWING TITLE

STUB COLUMN, COLUMN BASES,
STRIP FOOTING AND ENTRANCES
TYPICAL SECTION DETAILS

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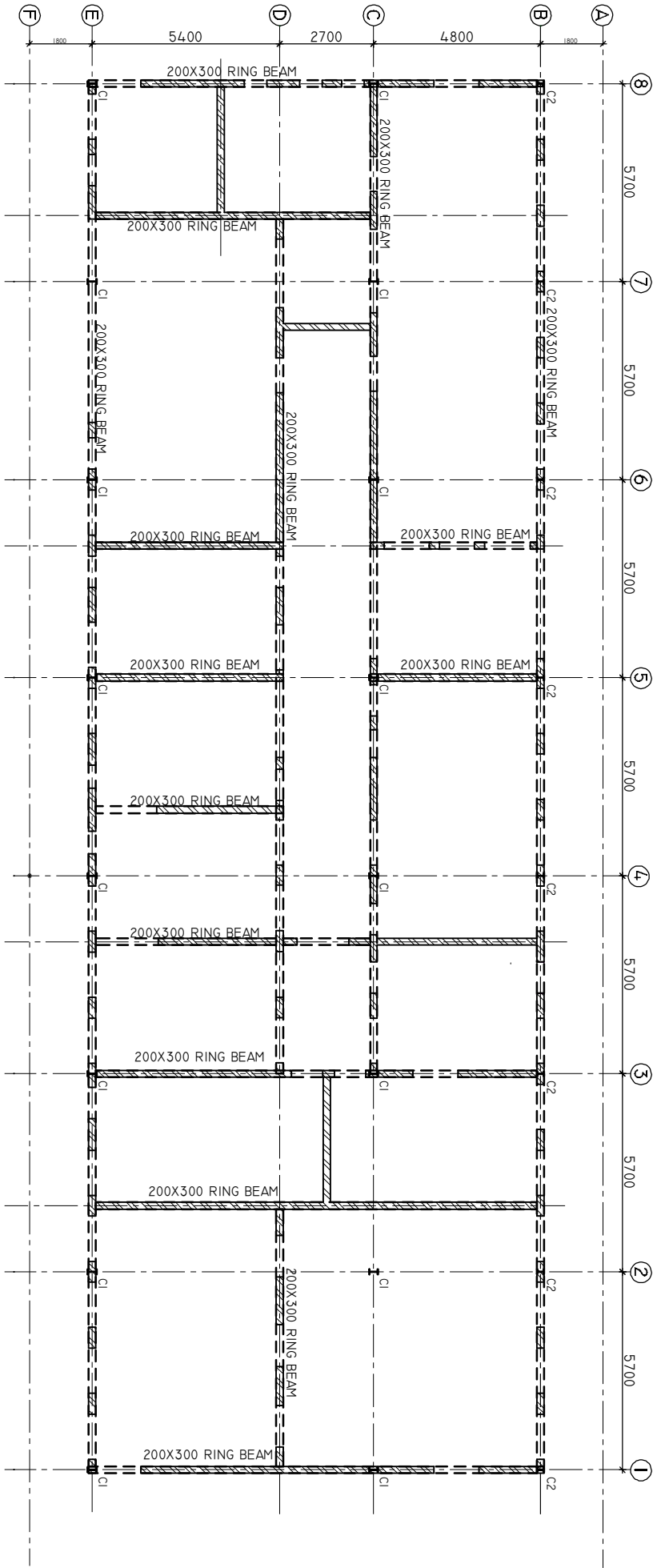
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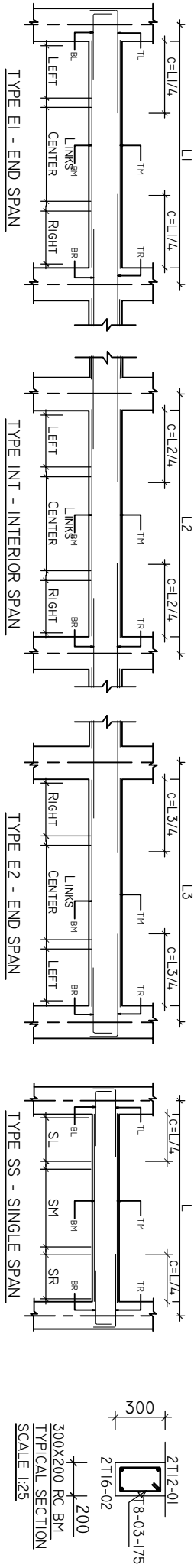
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300X200MM RC TIE BEAM
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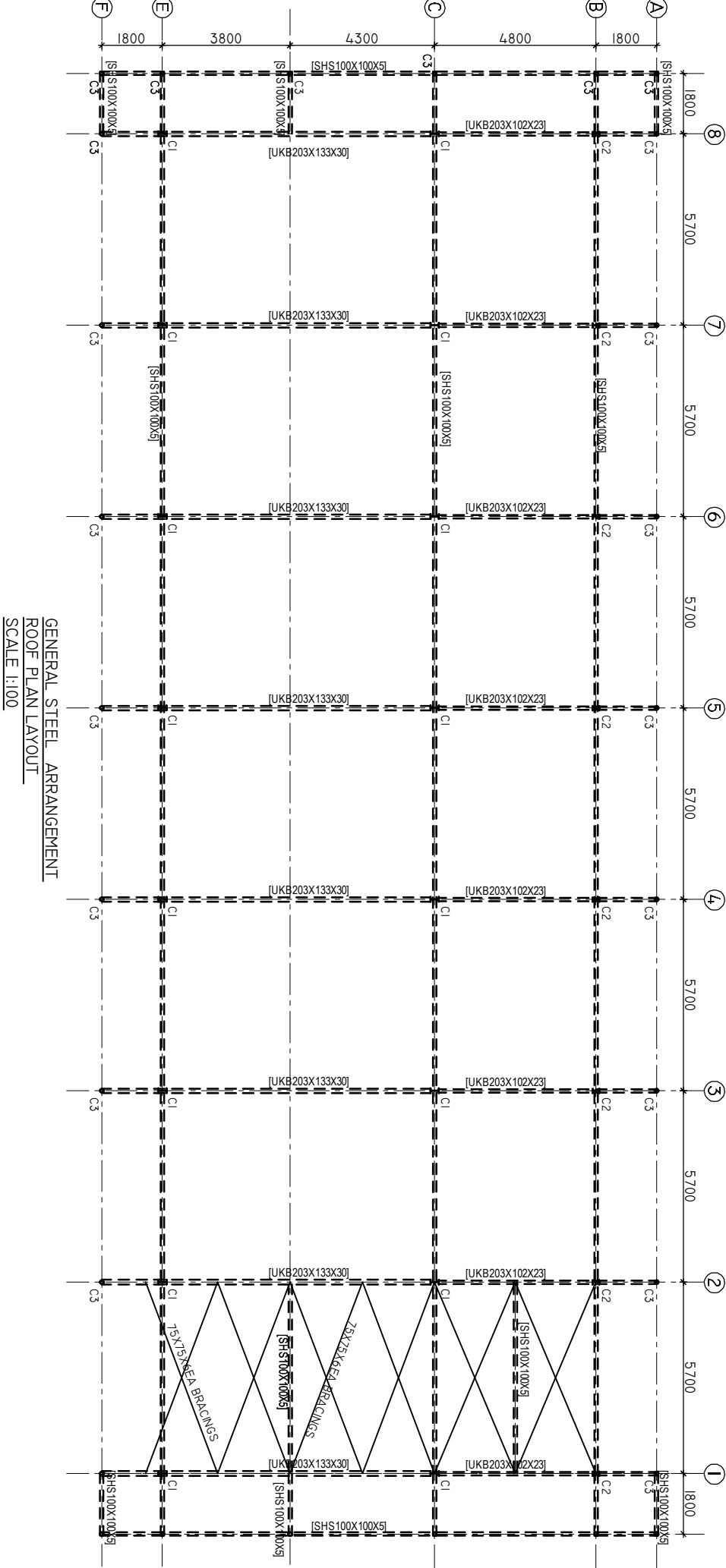
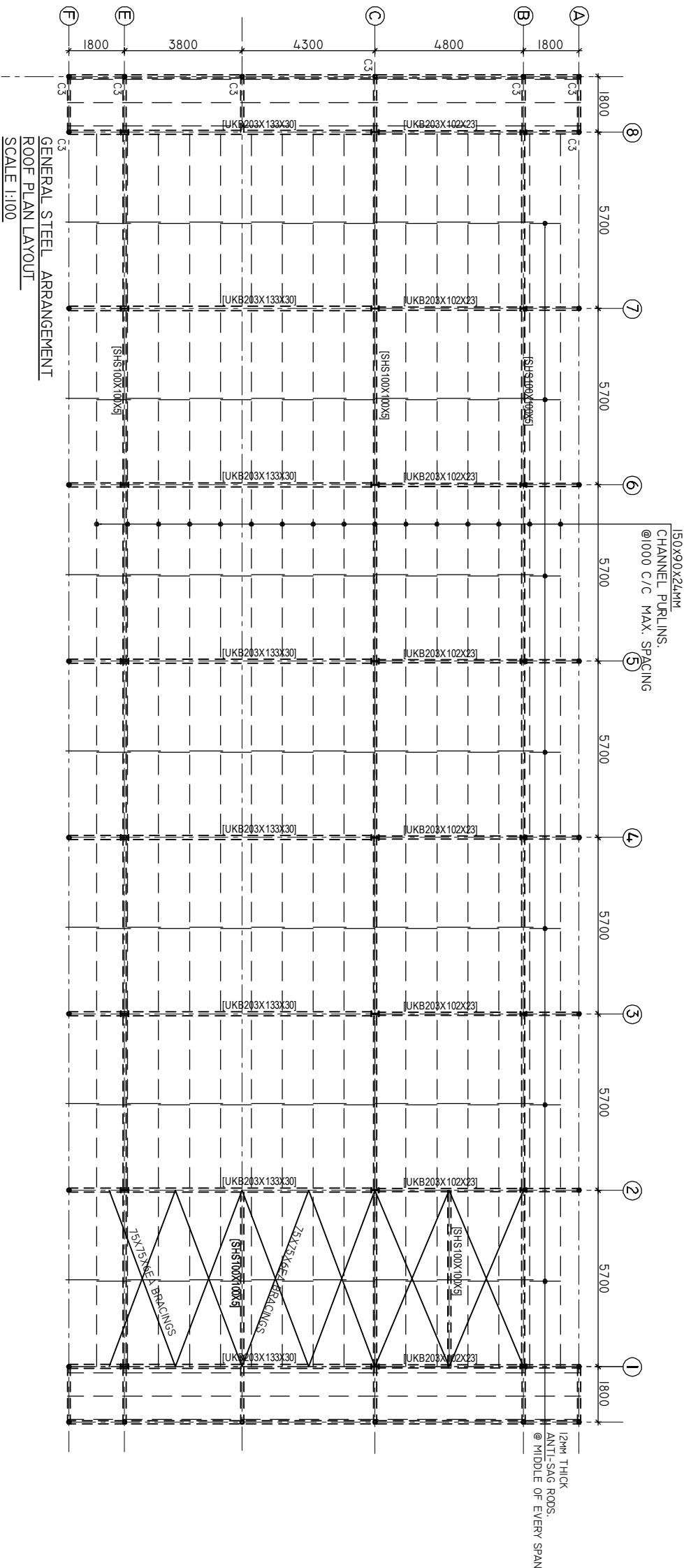
PROJECT
PROPOSED MATERNITY HEALTH FACILITY JOJOIMA BLOCK D- LAUNDRY AND CAFETERIA BUILDING

DRAWING TITLE
GENERAL STEEL ARRANGEMENT

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APPROVED BY	PHILIP M.	
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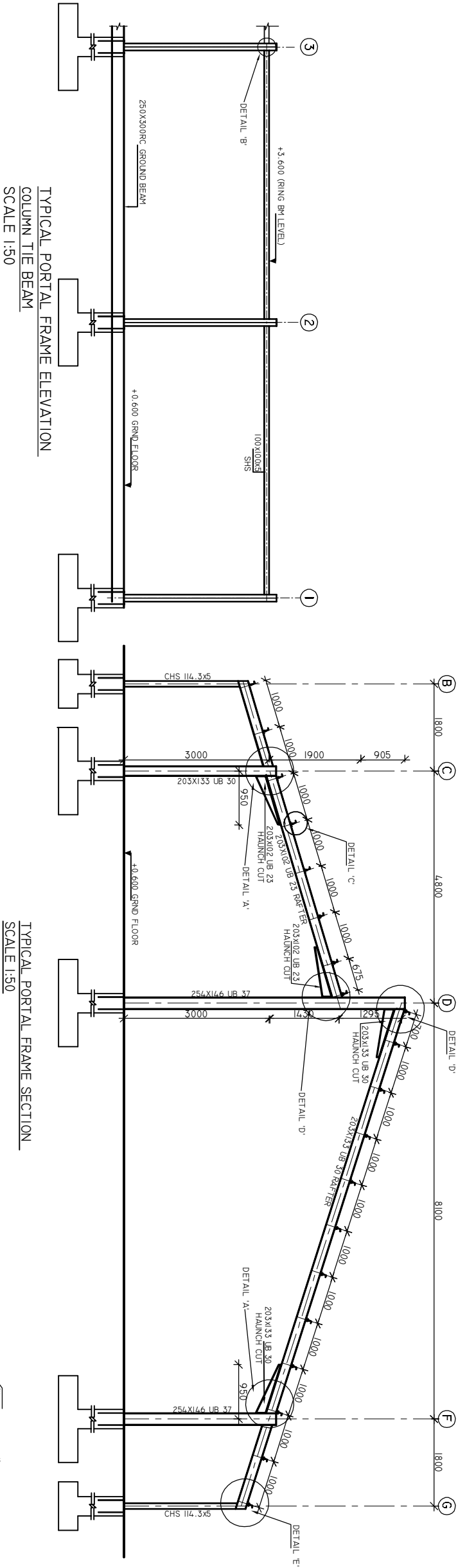
DRAWING TITLE
PORTAL FRAME TYPICAL SECTION AND CONNECTION DETAILS

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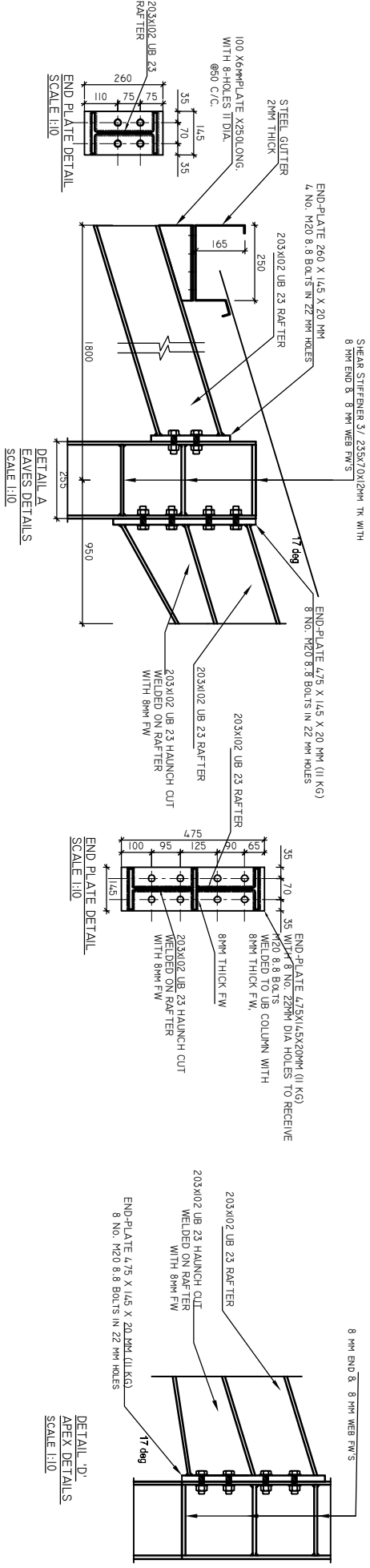
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TYPICAL PORTAL FRAME ELEVATION
COLUMN TIE BEAM
SCALE 1:50

TYPICAL PORTAL FRAME SECTION
SCALE 1:50

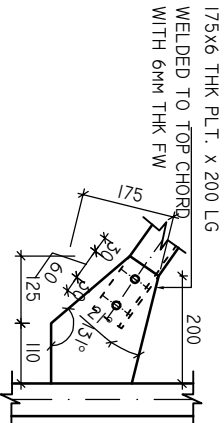
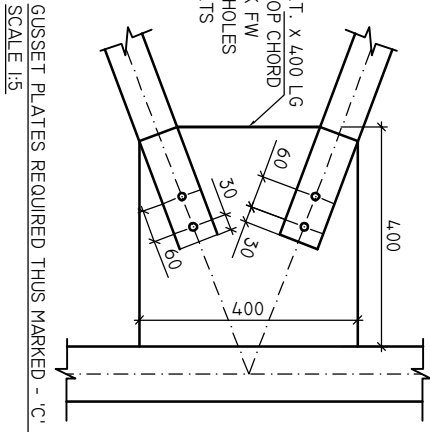
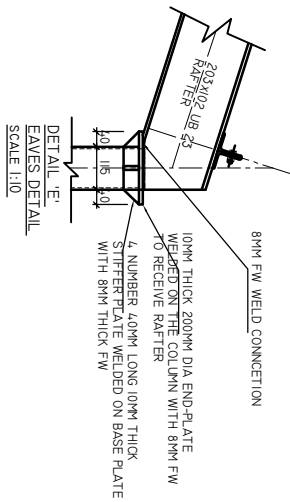
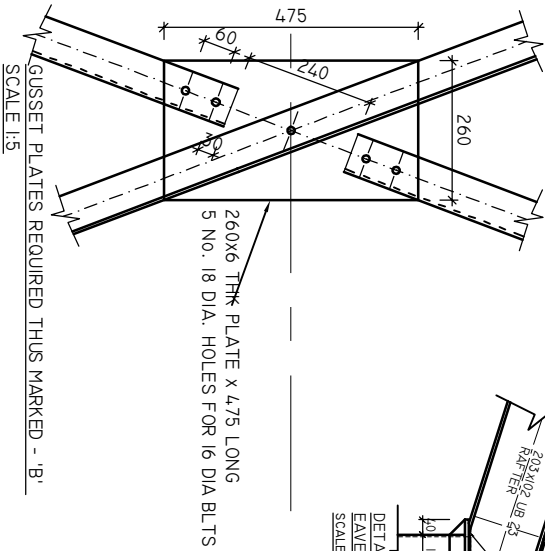
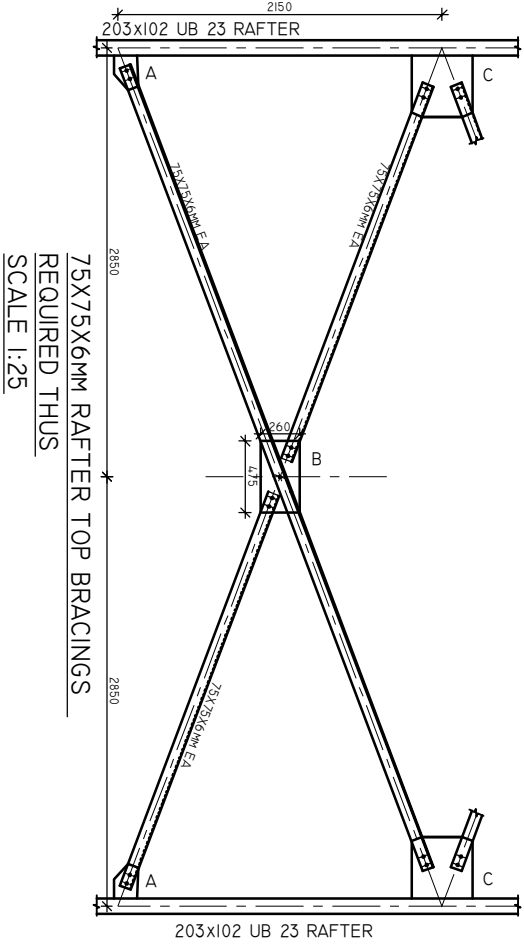


DETAIL A
EAVES DETAILS
SCALE 1:10

DETAIL D
APEX DETAILS
SCALE 1:10

TYPICAL DETAIL
PURLIN CONNECTION DETAILS
DETAIL 'C'
SCALE 1:10

100X50X4MM-110 LONG
ANGLE CLEAT DETAIL
SCALE 1:10





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PROJECT
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HEALTH FACILITY JOJOIMA
BLOCK E-
MORGUE BUILDING

FOUNDATION /GROUND FLOOR
PLAN LAYOUT

		SIGN	DATE
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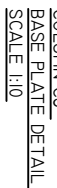
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PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK E-
MORGUE BUILDING

DRAWING TITLE
STUB COLUMN, COLUMN BASES, STRIP FOOTING AND ENTRANCES TYPICAL SECTION DETAILS

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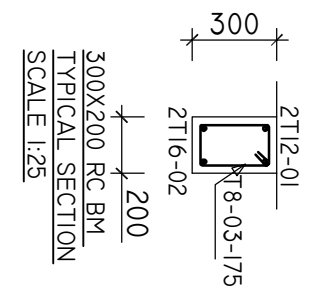
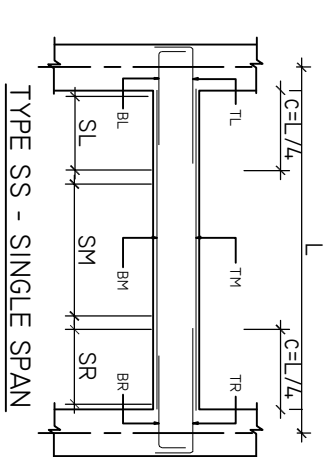
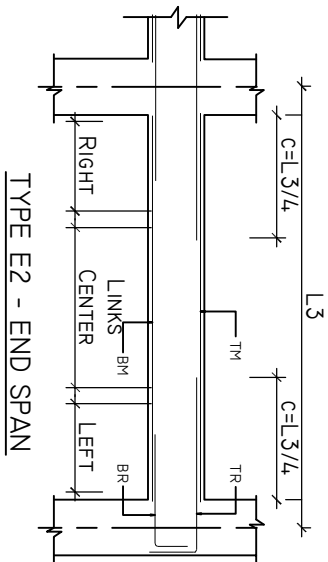
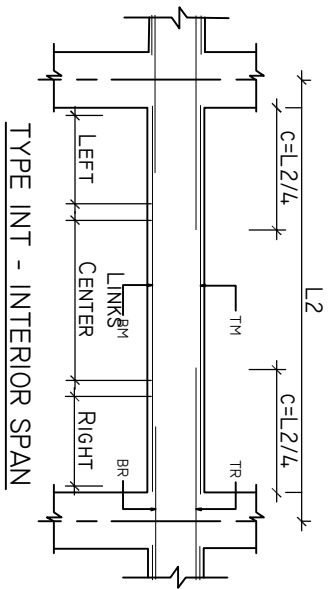
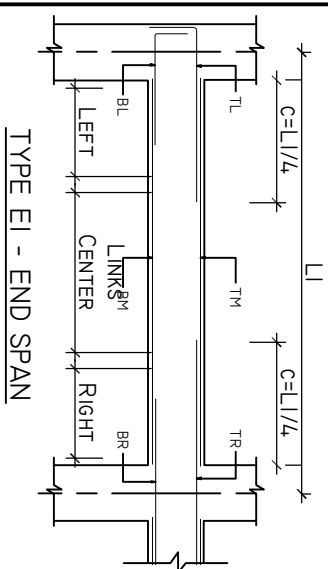
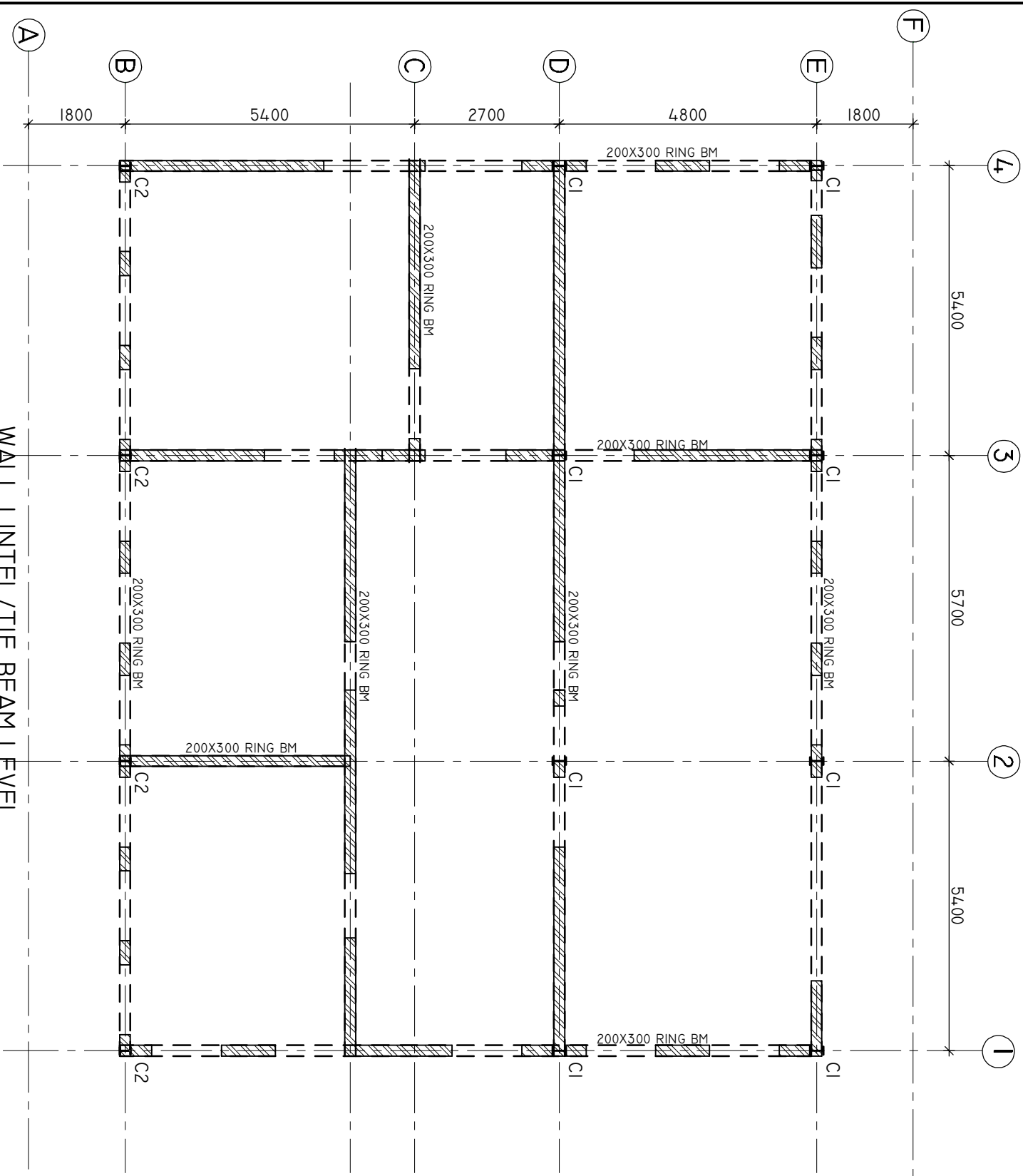
PROJECT
PROPOSED MATERNITY HEALTH FACILITY JOJOIMA BLOCK E- MORGUE BUILDING

DRAWING TITLE
RING BEAM PLAN LAYOUT AND BEAM RC DETAILS

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PROJECT
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HEALTH FACILITY JOJOIMA
BLOCK E-
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GENERAL STEEL ARRANGEMENT

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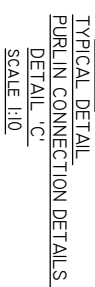
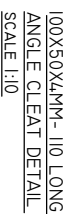
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PROJECT
PROPOSED MATERNITY HEALTH FACILITY JOJOIMA BLOCK F- GENERATOR HOUSE BUILDING

DRAWING TITLE
FOUNDATION /GROUND FLOOR PLAN LAYOUT

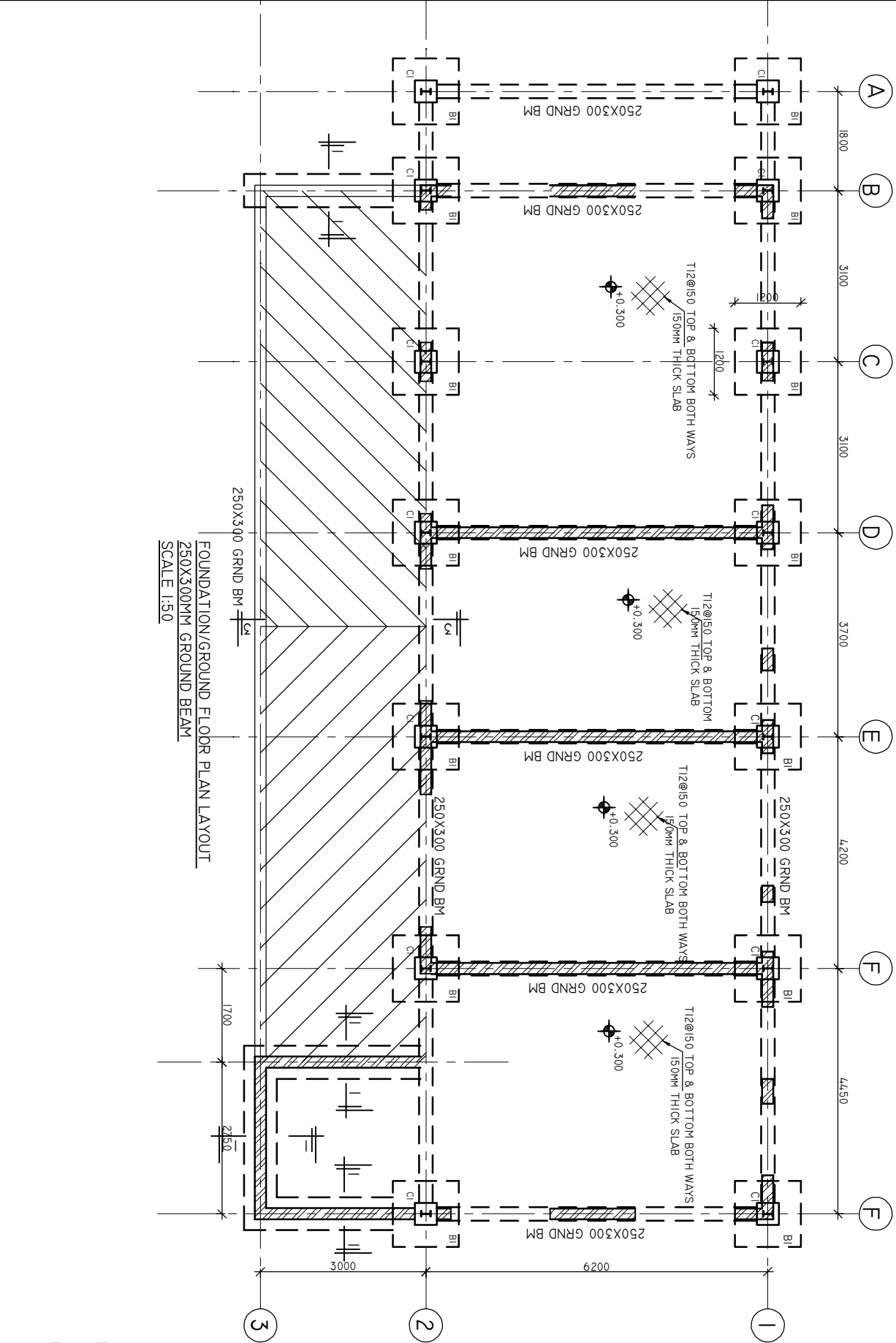
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SCHEDULE OF FOUNDATION/ GROUND FLOOR STRUCTURAL MEMBERS			
MARKS	SIZES	QUANTITIES	REINFORCEMENT
SLABS	150MM THICK SOLID ON COMPACTED FILL	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS
COLUMNS	203x402 UB 23 4.00x4.00 RC STUB COL 'C'	14 NOS	REFER TO DETAILS
FOUNDATION PAD AND STRIP FOOTINGS			
BASE BI	1200x1200x350	12 NOS	REFER TO DETAILS
STRIP FOOTING	600x200mm THK	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS



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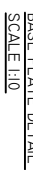
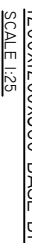
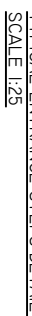
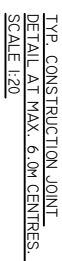
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STUB COLUMN, COLUMN BASES,
STRIP FOOTING AND ENTRANCES
TYPICAL SECTION DETAILS

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PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA
BLOCK F-
GENERATOR HOUSE BUILDING

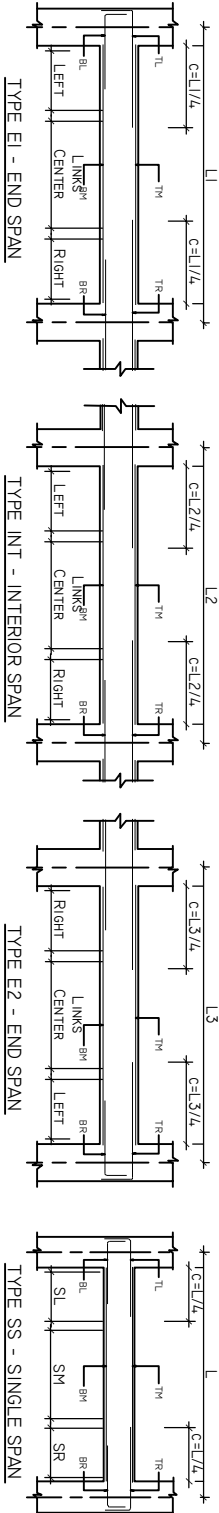
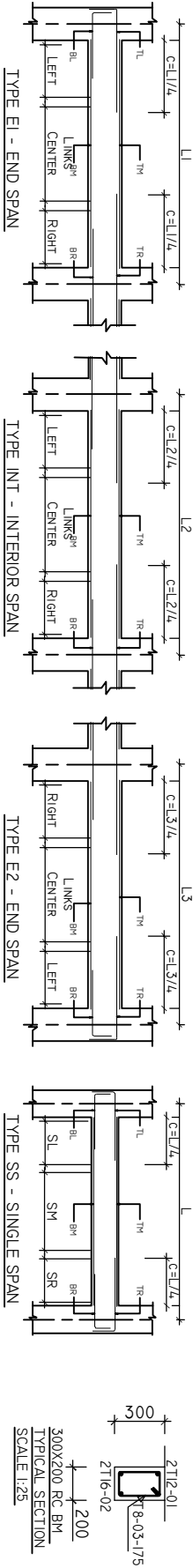
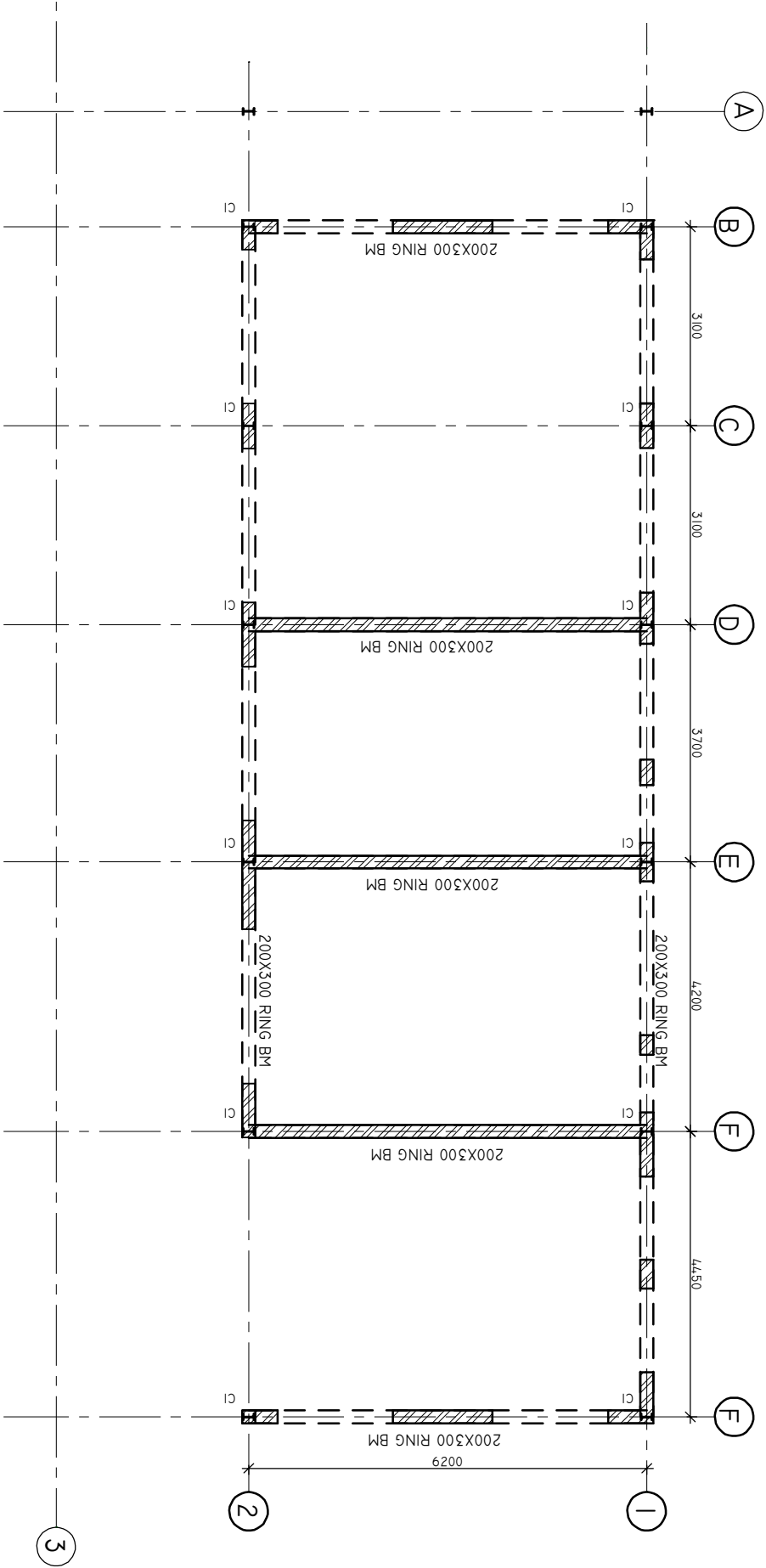
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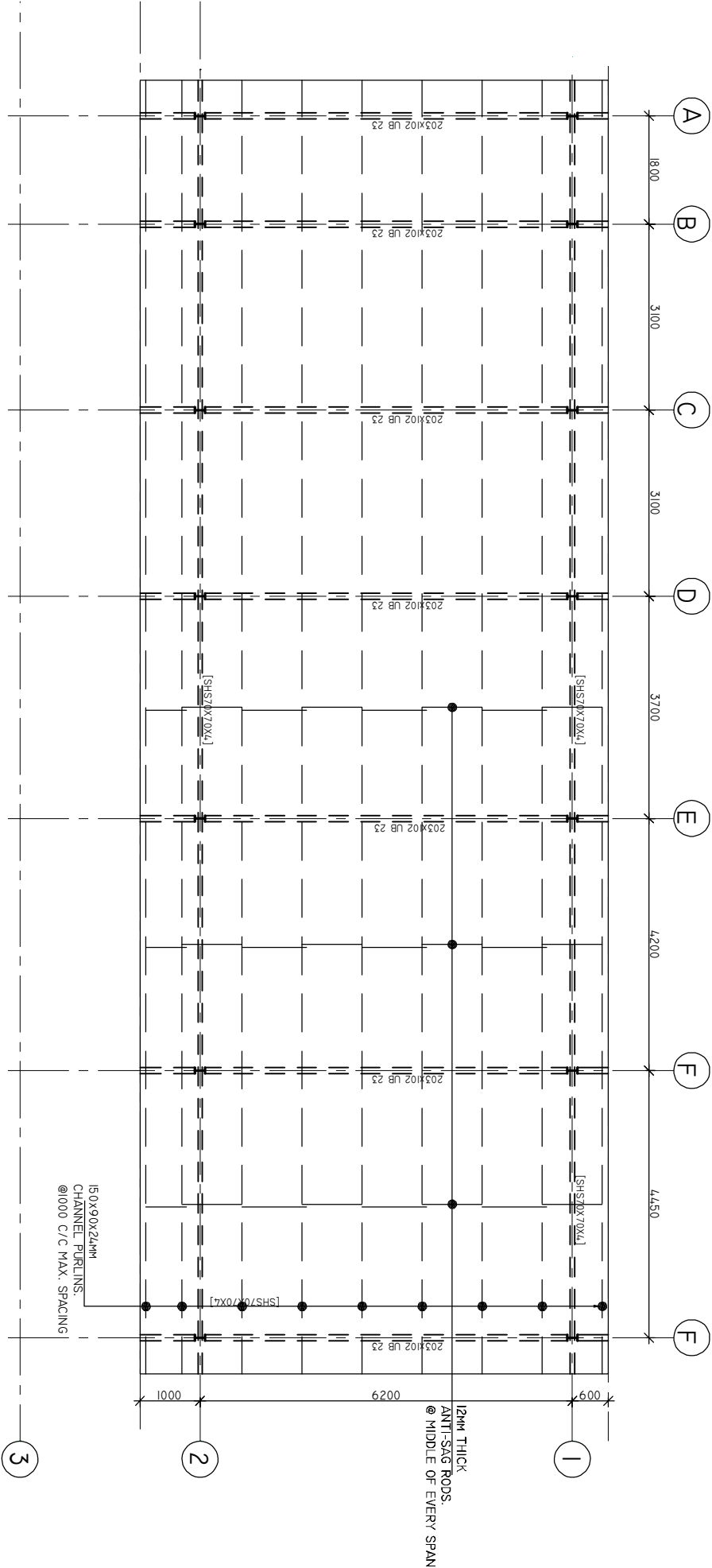
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DRAWING TITLE
GENERAL STEEL ARRANGEMENT AND TYPICAL CROSS-SECTION

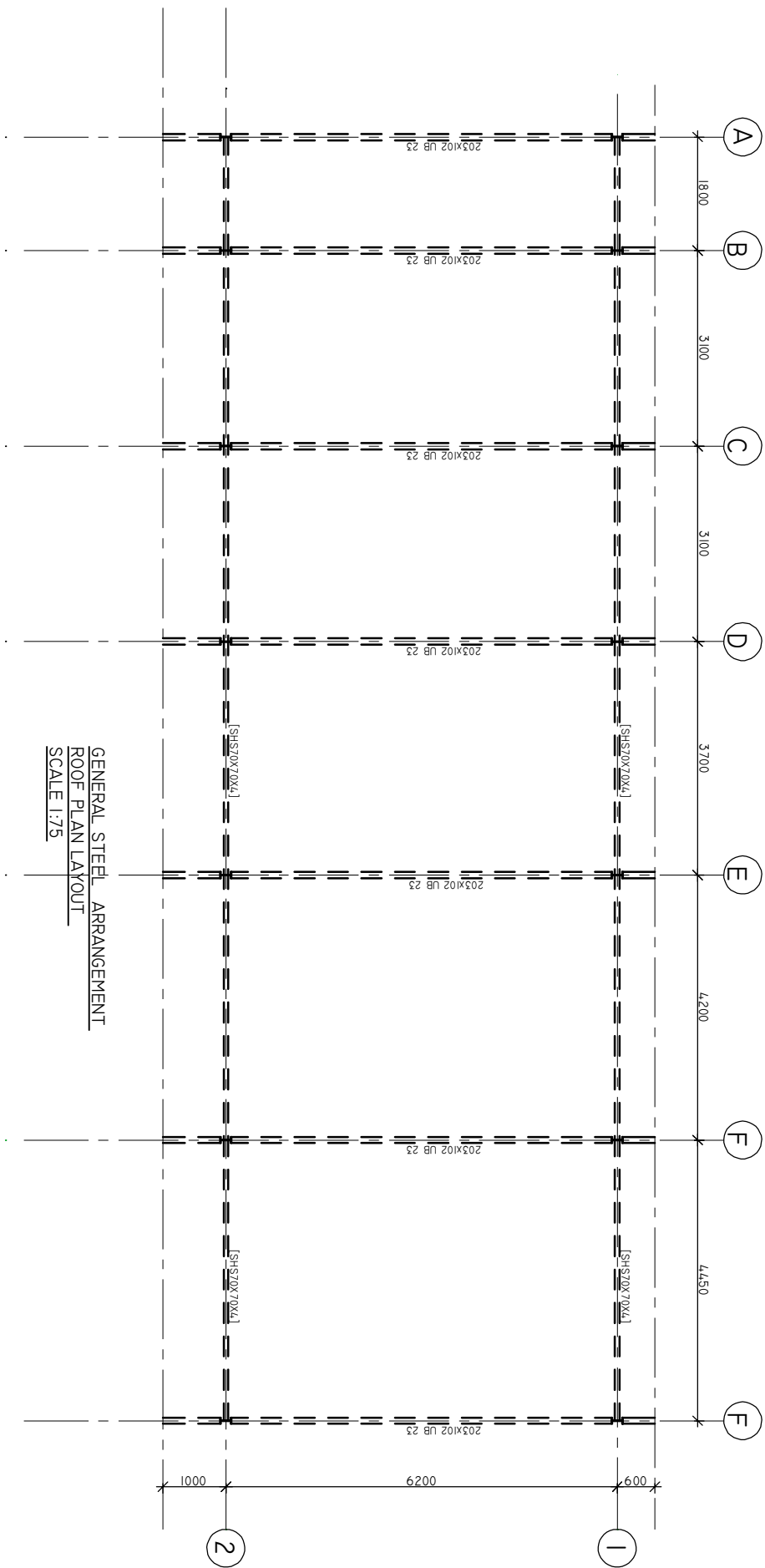
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GENERAL STEEL ARRANGEMENT
ROOF PLAN LAYOUT
SCALE 1:75



GENERAL STEEL ARRANGEMENT
ROOF PLAN LAYOUT
SCALE 1:75



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PROJECT
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BLOCK F-
GENERATOR HOUSE BUILDING

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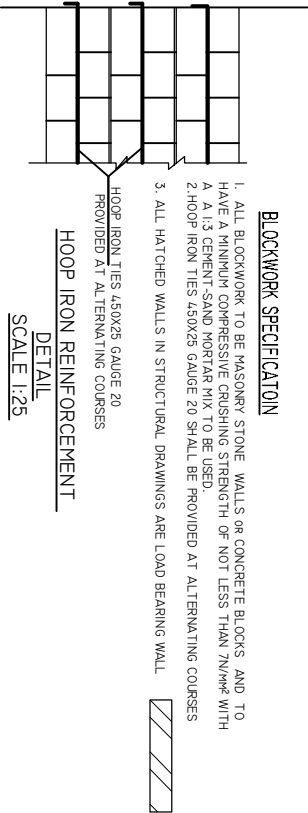
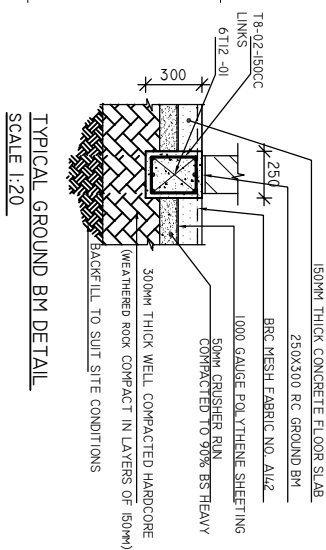
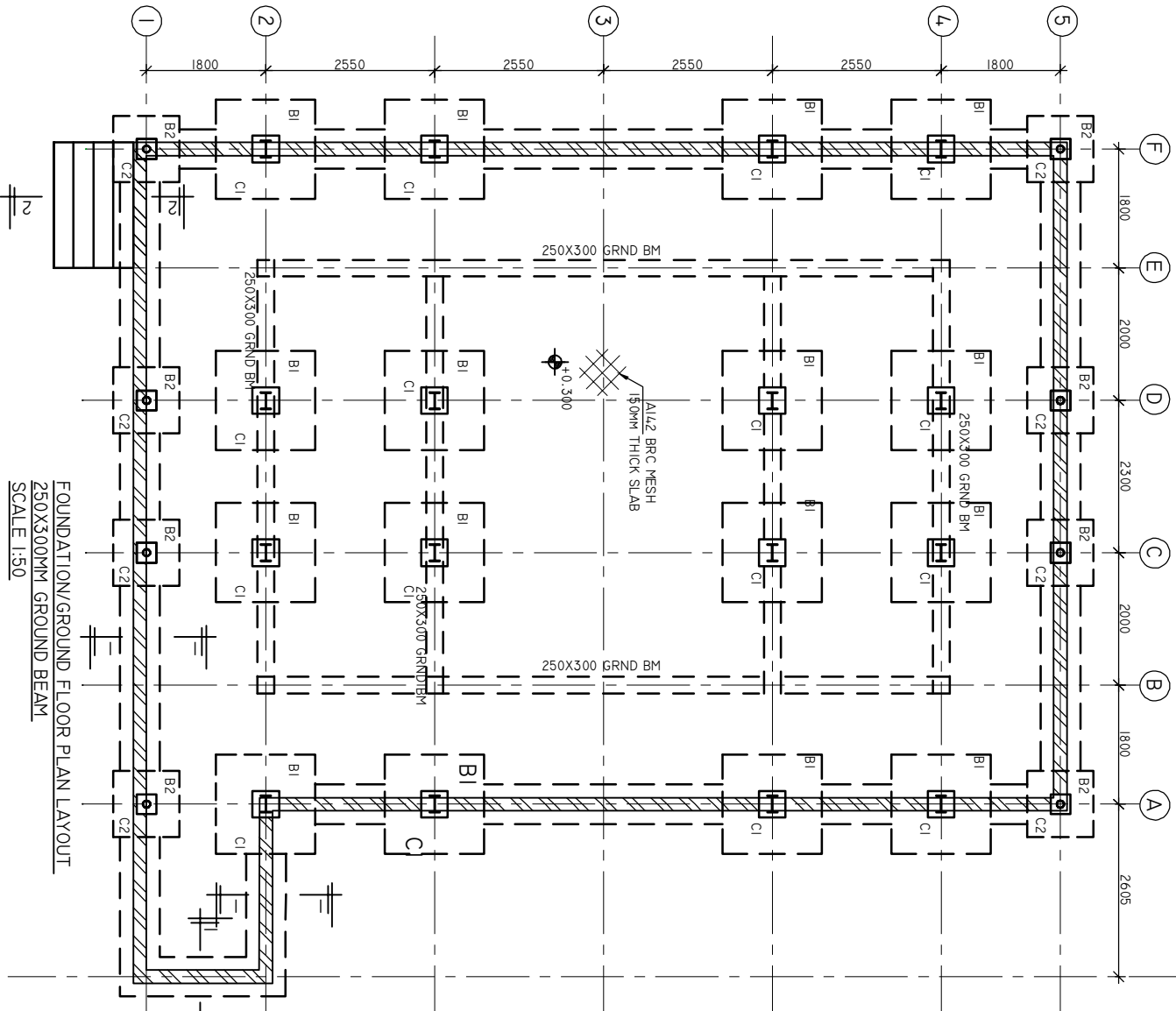
PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOUOIMA
BLOCK G-
EXTERNAL KITCHEN BUILDING

DRAWING TITLE
FOUNDATION /GROUND FLOOR PLAN LAYOUT

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APPROVED BY	PHILIP M.	
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SCHEDULE OF FOUNDATION/ GROUND FLOOR STRUCTURAL MEMBERS			
MARKS	SIZES	QUANTITIES	REINFORCEMENT
SLABS			
GROUND SLAB	150MM THICK SOLID ON COMPACTED FILL	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS
COLUMNS			
COLUMNS	150X150 RC STUB COL	16 NOS	REFER TO DETAILS
COLUMNS	150X150 RC STUB COL	8 NOS	REFER TO DETAILS
COLUMNS	150X150 RC STUB COL	8 NOS	REFER TO DETAILS
FOUNDATION PAD AND STRIP FOOTINGS			
BASE B1	1200X1200X350	16 NOS	REFER TO DETAILS
BASE B2	1000X1000X350	8 NOS	REFER TO DETAILS
STRIP FOOTING	600X200MM THK	REFER TO LAYOUT AND SECTIONS	REFER TO DETAILS

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PROJECT
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BLOCK G-
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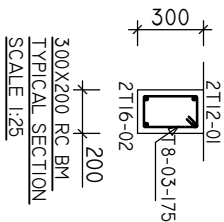
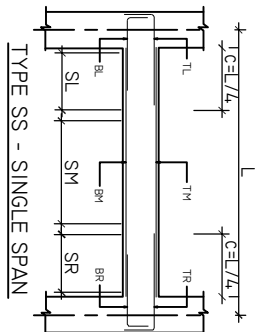
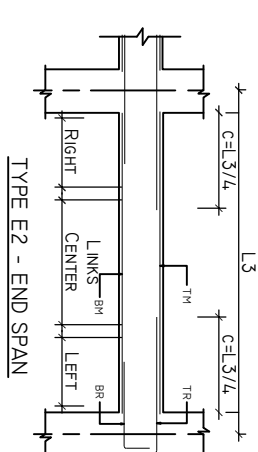
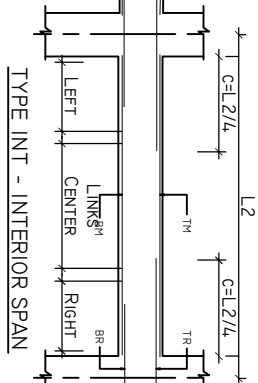
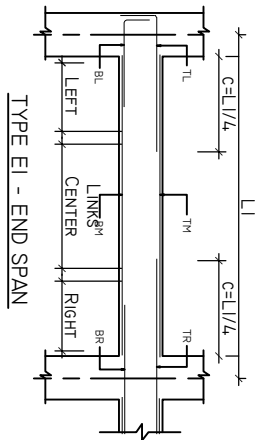
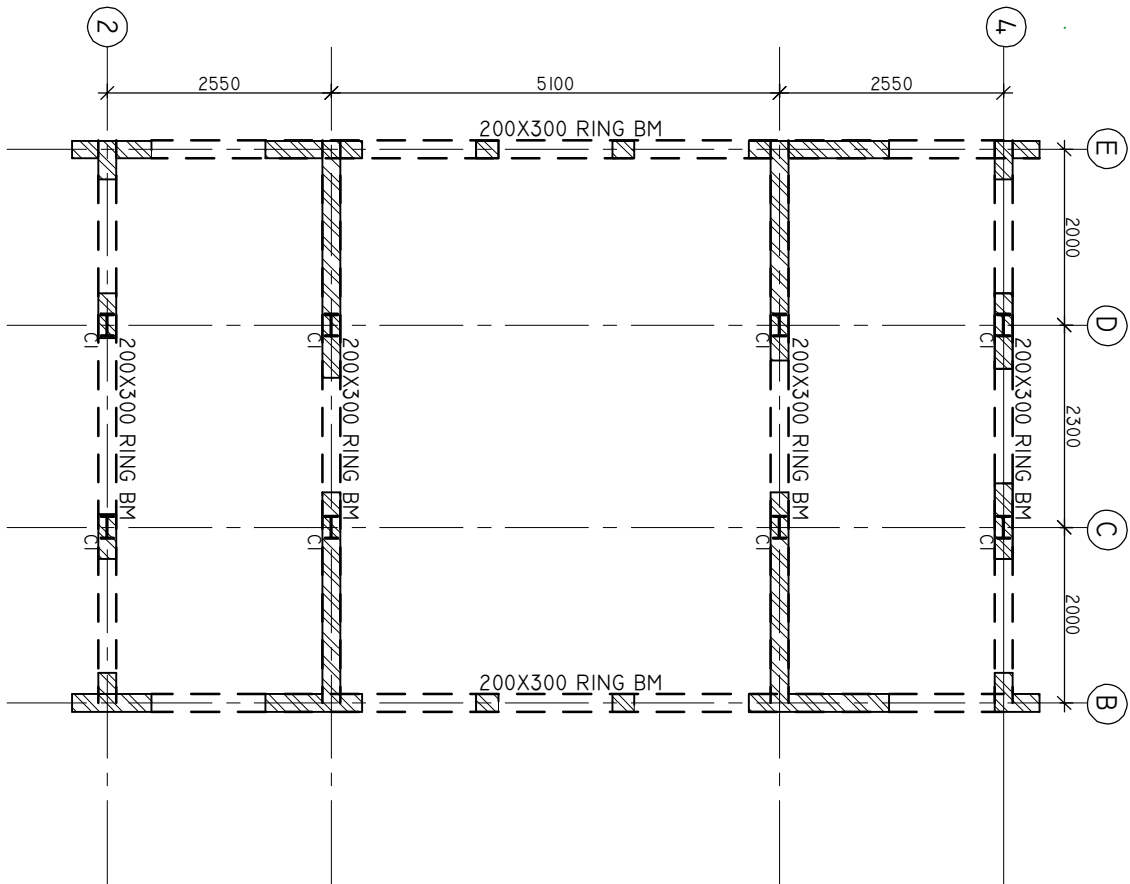
PROJECT
PROPOSED MATERNITY HEALTH FACILITY JOJOIMA BLOCK G- EXTERNAL KITCHEN BUILDING

DRAWING TITLE
RING BEAM PLAN LAYOUT AND BEAM RC DETAILS

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GENERAL STEEL ARRANGEMENT

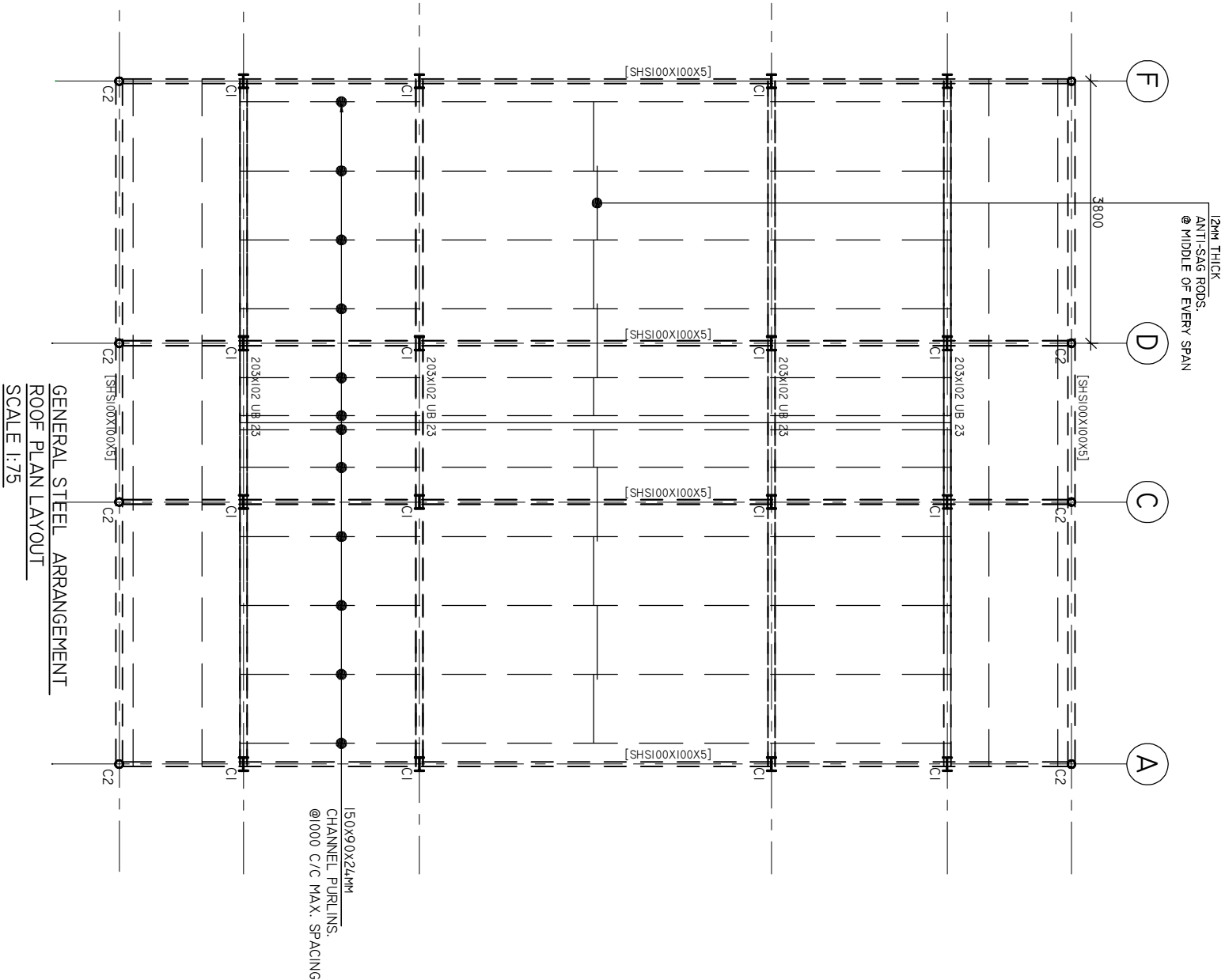
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PROJECT
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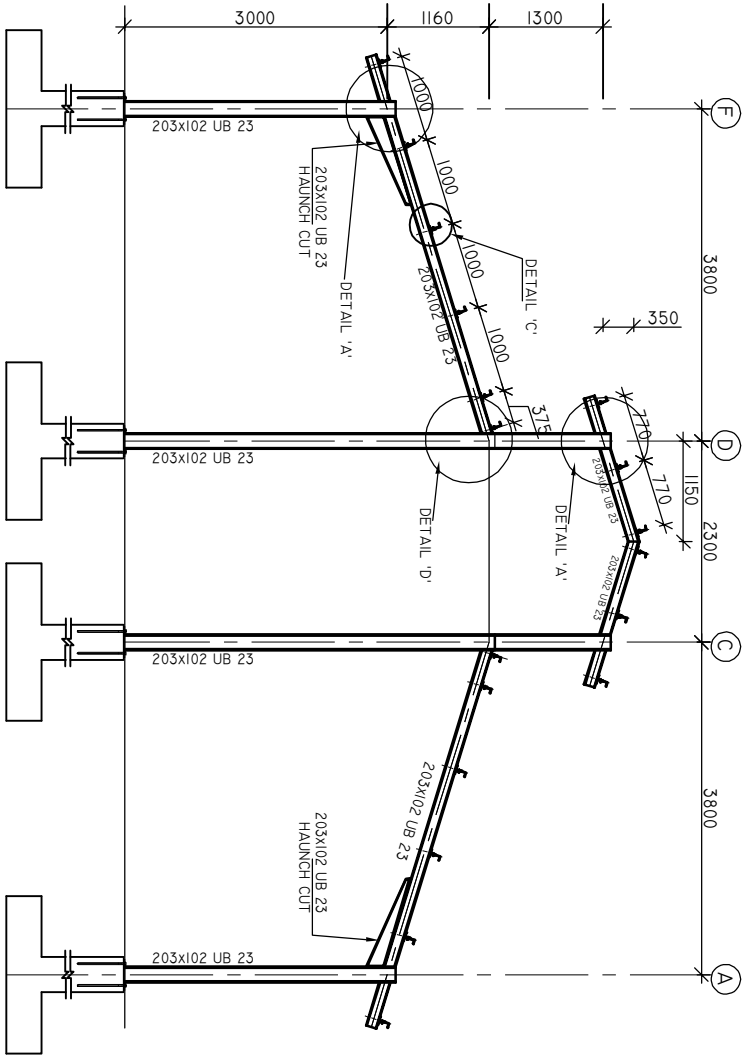
DRAWING TITLE
PORTAL FRAME TYPICAL SECTION AND CONNECTION DETAILS

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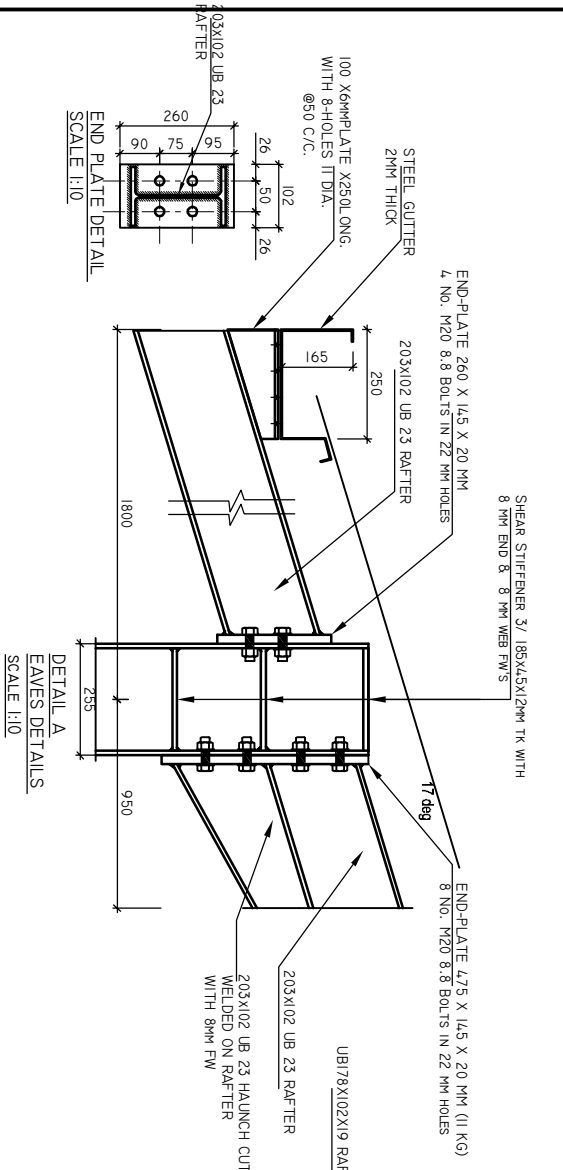
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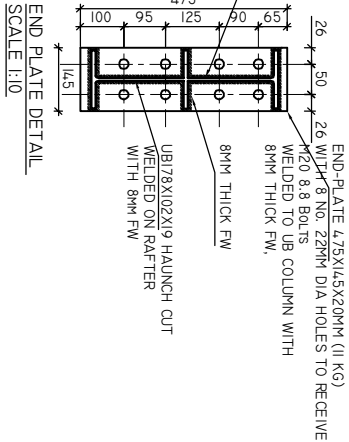
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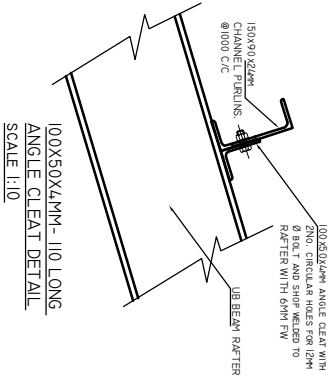
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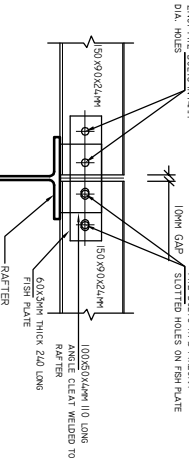
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DETAIL 'C'
SCALE 1:10



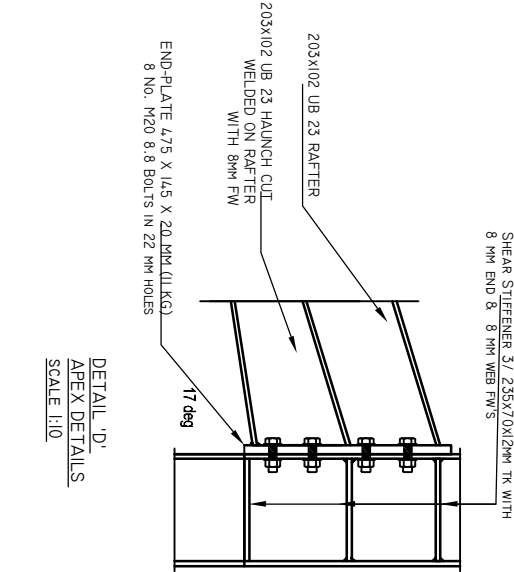
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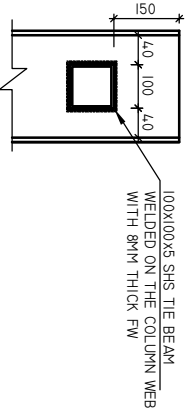
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DETAIL 'A'
SCALE 1:10



TYPICAL DETAIL PURLIN CONNECTION DETAILS
DETAIL 'B'
SCALE 1:10



TYPICAL DETAIL PURLIN CONNECTION DETAILS
DETAIL 'E'
SCALE 1:10



TYPICAL DETAIL PURLIN CONNECTION DETAILS
DETAIL 'F'
SCALE 1:10



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PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA

RAMP

DRAWING TITLE
WALKWAY
RAMP DETAILS BLOCK B AND C
GROUND AND ROOF PLAN LAYOUT

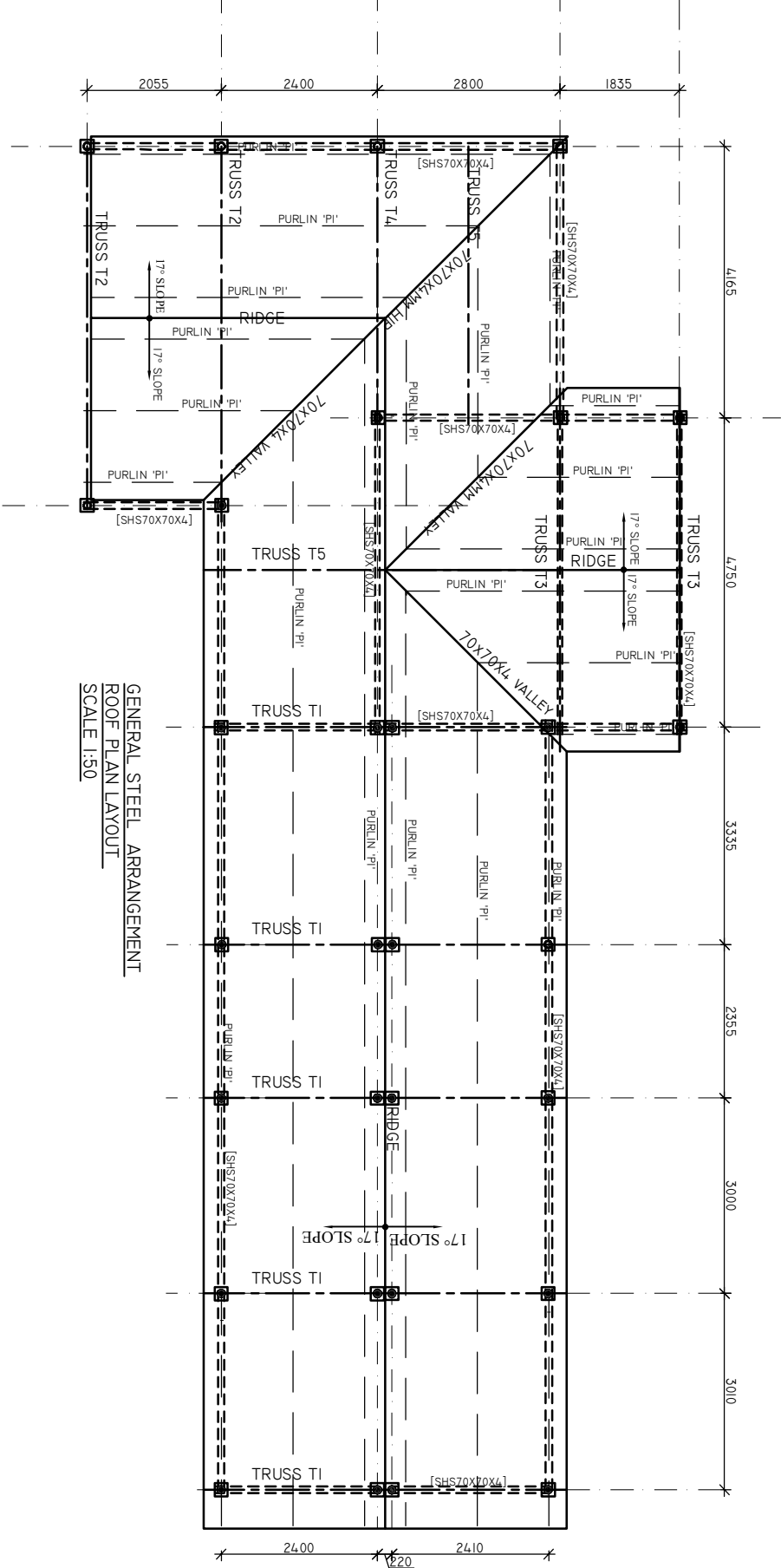
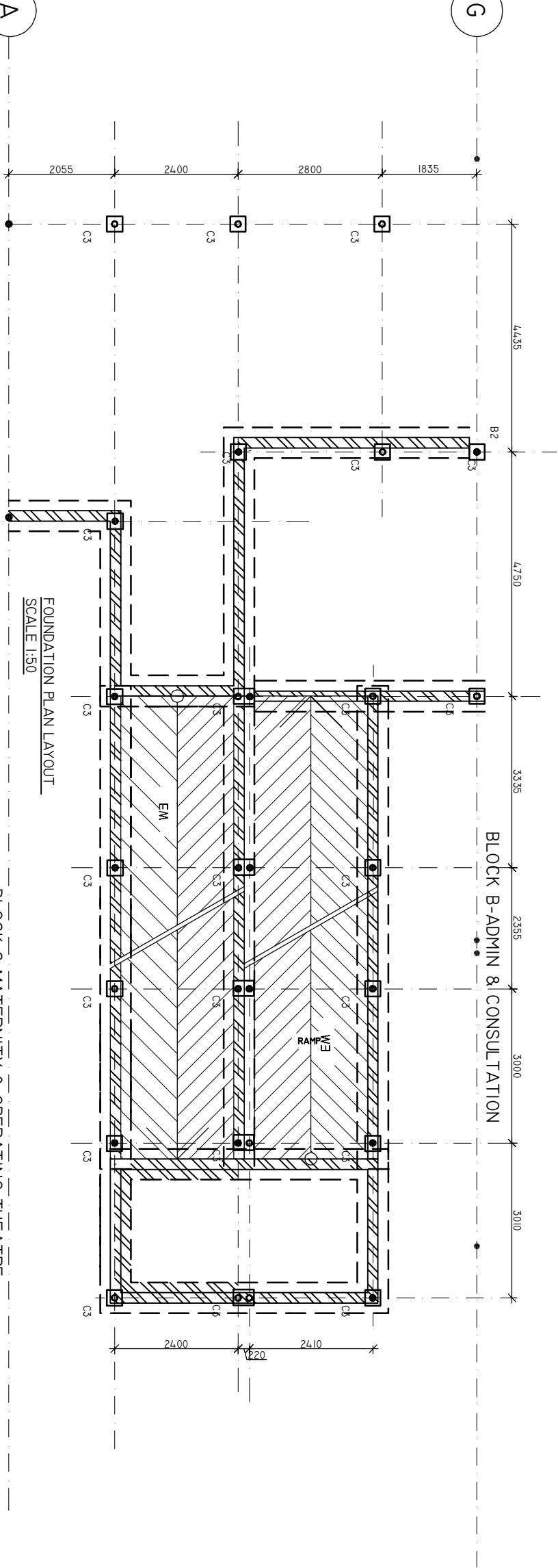
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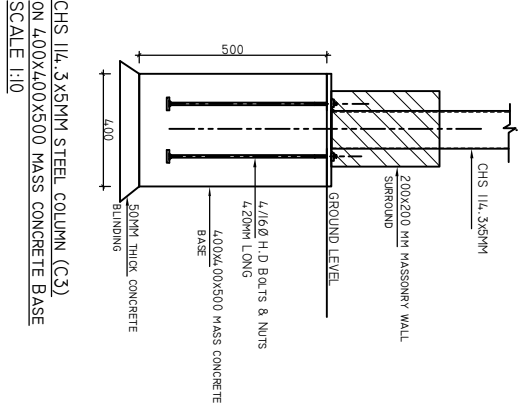
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- NOTES-TRUSSES-
1. P1 - 100X50X10MM CHANNEL PURLIN WITH FISH PLATES
 2. PURLIN SPACING (1200MM)
 3. TRUSS TOP AND BOTTOM CHORD- 60X60X4MM RHS, 50X50X4MM RHS INTERNALS
 4. SLOPE 17°
 5. ALL JOINTS ARE WELDED WITH 6MM FW
 6. ALL HIPS AND VALLEYS TO HAVE 70X70X4MM RHS TIE BEAM





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PROJECT
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HEALTH FACILITY JOJOIMA

RAMP

DRAWING TITLE

WALKWAY
RAMP DETAILS BLOCK D
GROUND AND ROOF PLAN LAYOUT

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DRAWING TITLE
WALKWAY TRUSS ELEVATION AND CONNECTION DETAILS

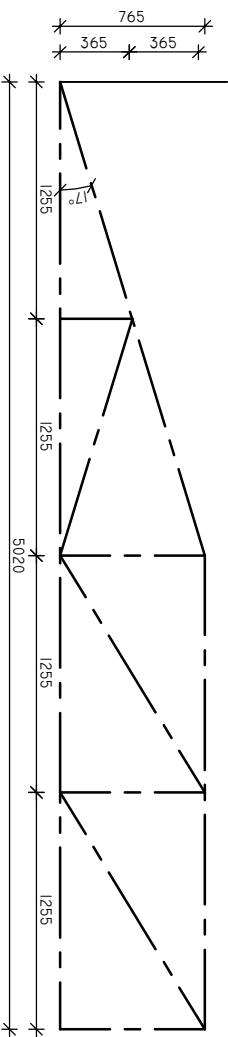
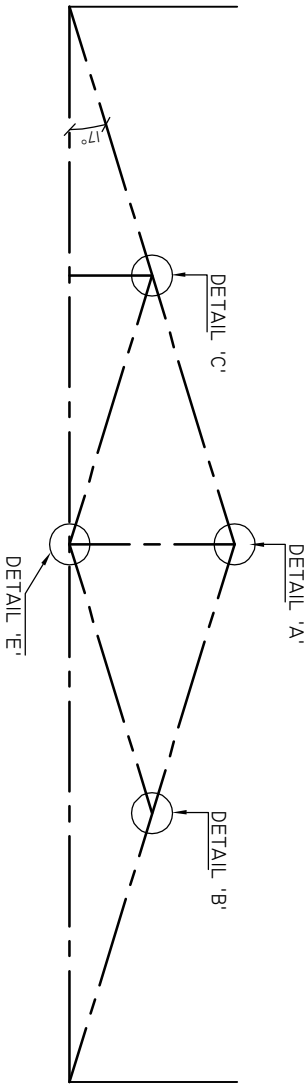
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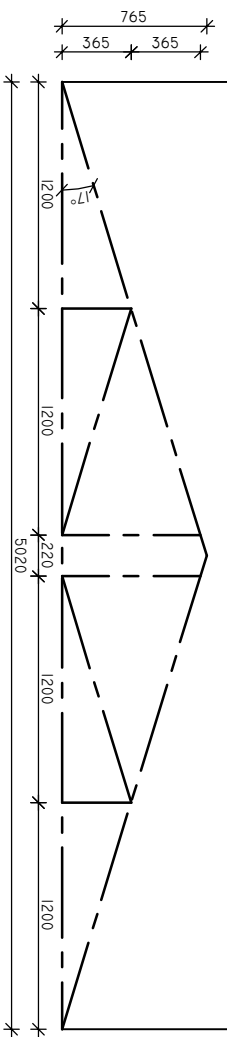
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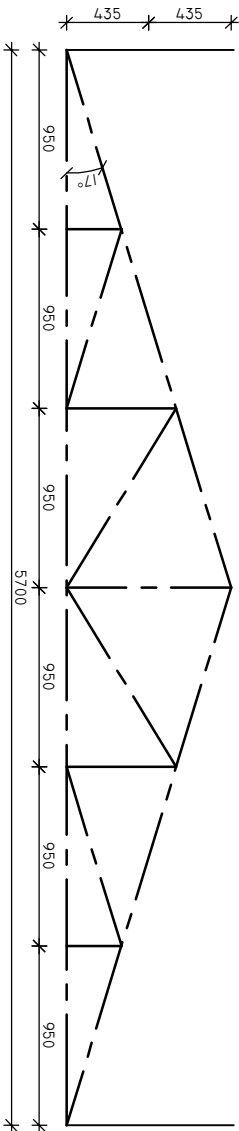
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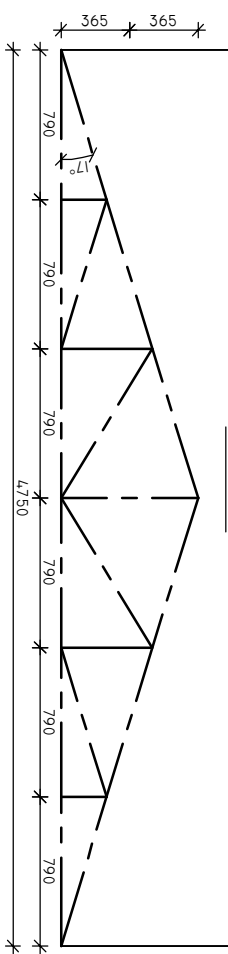
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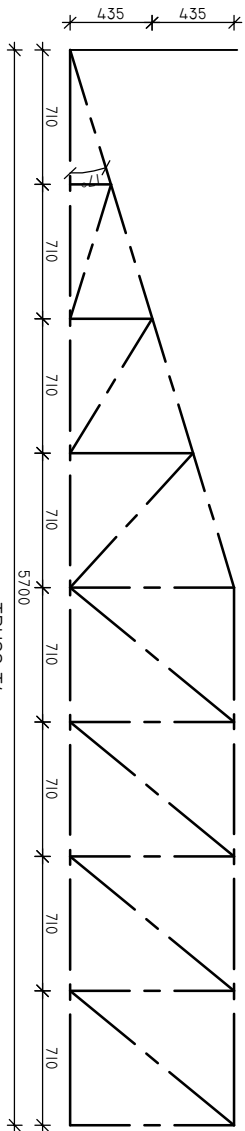
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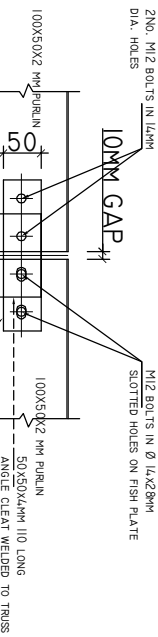
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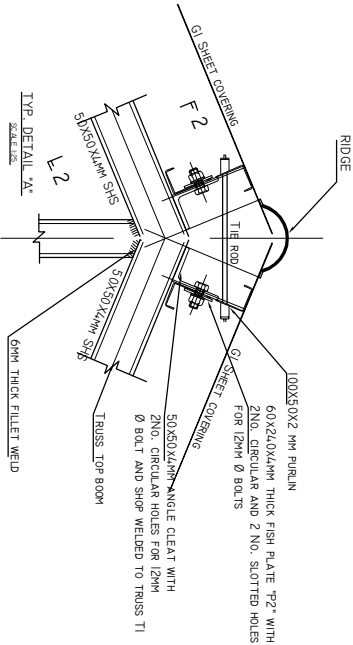
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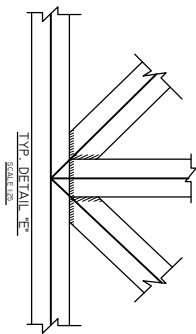
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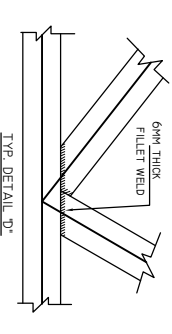
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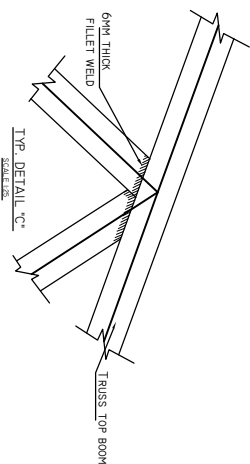
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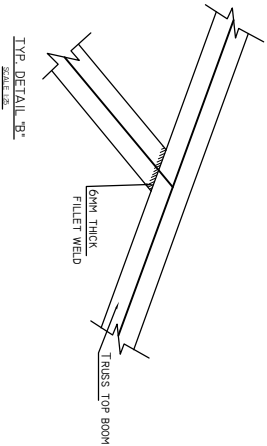
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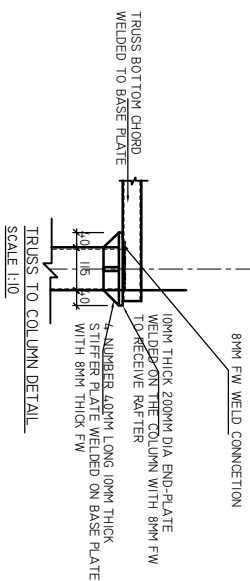
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TYP. DETAIL 'D'
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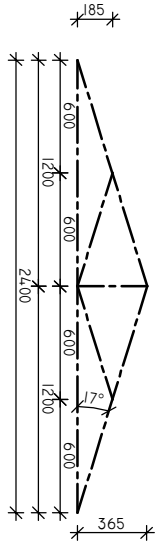


TYP. DETAIL 'E'
SCALE 1:25



TRUSS TO COLUMN DETAIL
SCALE 1:10

- NOTES TRUSSES-**
1. P1 - 100X50X3MM CHANNEL PURLIN WITH FISH PLATES
 2. PURLIN SPACING (1200MM)
 3. TRUSS TOP AND BOTTOM CHORD- 60X60X4MM RHS, 50X50X4MM RHS INTERNALS
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TRUSS T4
SCALE 1:25



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ELECTRICAL DRAWINGS

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LIGHTING POLE FOUNDATION DETAIL

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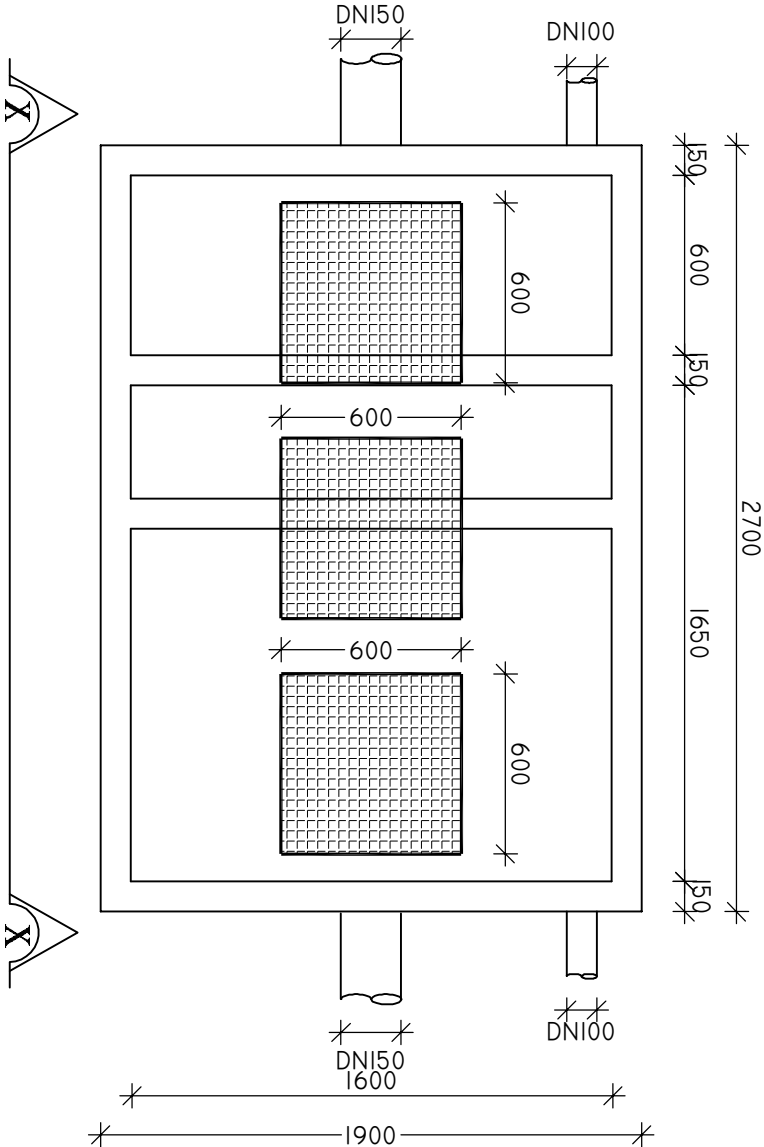
DRAWING TITLE
GREASE TRAP PLAN AND SECTION DETAILS

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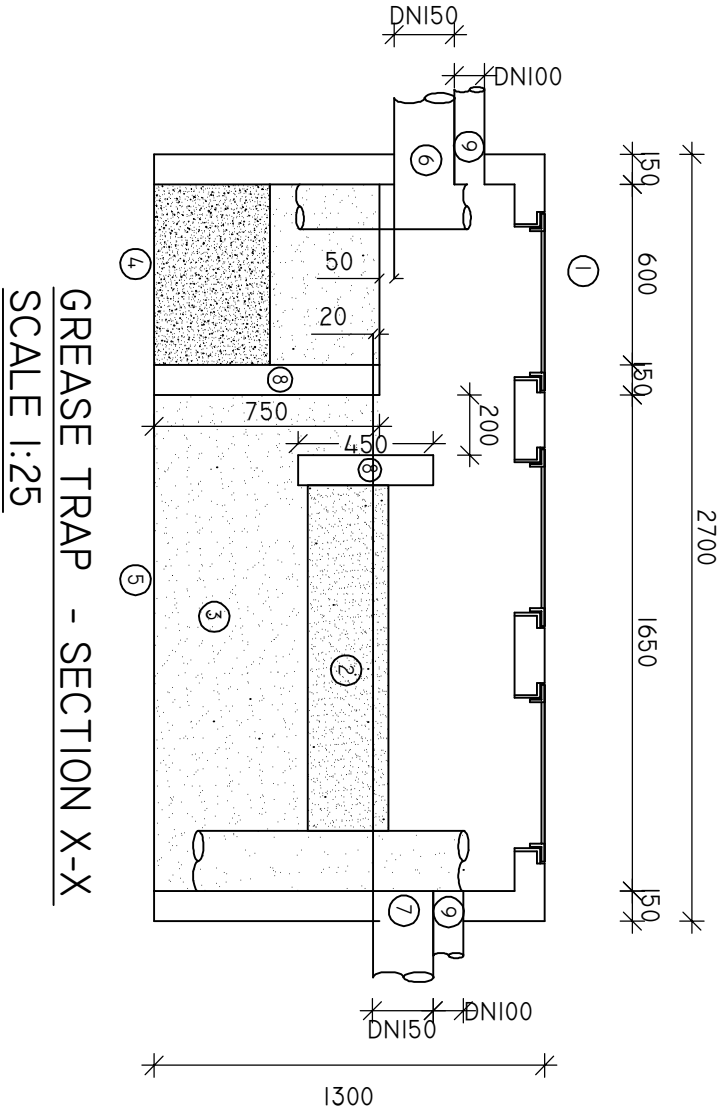
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GREASE TRAP PLAN LAYOUT
SCALE 1:25

KEY

- 1- ACCESS POINT
- 2- GREASE COLLECTION CHAMBER
- 3- GREASE SEPARATION ZONE
- 4- SLUDGE TRAP
- 5- GREASE SEPARATOR CHAMBER
- 6- INLET PIPE
- 7- OUTLET PIPE
- 8- BAFFLE WALL
- 9- VENT PIPE



GREASE TRAP - SECTION X-X
SCALE 1:25

1. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE STATED.

1. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE STATED.
2. ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE BEFORE COMMENCEMENT OF ANY WORK.
3. WRITTEN DIMENSIONS OVERRIDES SCALED DIMENSIONS; THUS ALL DIMENSIONS ARE TO BE READ AND NOT AT ANY TIME SCALED FROM THE DRAWING.
4. ANY DISCREPANCY TO BE REPORTED TO THE UNOPS SITE ENGINEER/ PROJECT MANAGER PROMPTLY BEFORE PROCEEDING.

REVISION		
NO.	DESCRIPTION	DATE

END USER

MINISTRY OF HEALTH
AND SANITATION,
GOVERNMENT OF SIERRA LEONE.

PROJECT
PROPOSED MATERNITY
HEALTH FACILITY JOJOIMA

DRAWING TITLE

GREASE TRAP RC DETAILS

DESIGN SERVICES UNIT		
	SIGN	DATE
DRAWN BY	LANGAT Z.	
CHECKED BY	ARNOLD.	
APPROVED BY	PHILIP M.	

DESIGN REVIEW DRAWING

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